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Evolved Universal Terrestrial Radio Access (E-UTRA);
User Equipment (UE) conformance specification;
Radio transmission and reception;
Part 2: Implementation Conformance Statement (ICS)
(3GPP TS 36.521-2 version 15.3.0 Release 15)



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Introduction

The present document is part 2 of a multi-parts TS:

3GPP TS 36.521-1 [1]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing.

3GPP TS 36.521-2: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part :2 Implementation Conformance Statement (ICS).

3GPP TS 36.521-3 [2]: Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management (RRM) Conformance Testing.

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for 3G Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE), in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

The present document specifies the recommended applicability statement for the test cases included in 3GPP TS 36.521-1 [1] and 3GPP TS 36.521-3 [2]. These applicability statements are based on the features implemented in the LIF.

Special conformance testing functions can be found in 3GPP TS 36.509 [5] and the common test environments are included in 3GPP TS 36.508 [6].

The present document is valid for UE implemented according to 3GPP releases starting from Release 8 up to the Release indicated on the cover page of the present document.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).
- [1] 3GPP TS 36.521-1: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 1: Conformance testing ".
- [2] 3GPP TS 36.521-3: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification Radio transmission and reception Part 3: Radio Resource Management Conformance Testing ".
- [3] ISO/IEC 9646-1: "Information technology Open systems interconnection Conformance testing methodology and framework Part 1: General concepts".
- [4] ISO/IEC 9646-7: "Information technology Open systems interconnection Conformance testing methodology and framework Part 7: Implementation Conformance Statements".
- [5] 3GPP TS 36.509: " Evolved Universal Terrestrial Radio Access (E-UTRA); Special conformance testing functions for User Equipment ".
- [6] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA); Common Test Environments for User Equipment (UE) Conformance Testing".
- [7] Void
- [8] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [9] 3GPP TS 36.201: "LTE Physical Layer General Description"
- [10] 3GPP TS 36.302: "Evolved Universal Terrestrial Radio Access (E-UTRA); Services provided by the physical layer for E-UTRA".
- [11] 3GPP TS 36.321: "Evolved Universal Terrestrial Radio Access (E-UTRA); Medium Access Control (MAC) protocol specification".

[12]	3GPP TS 36.322: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Link Control (RLC) protocol specification".
[13]	3GPP TS 36.323: "Evolved Universal Terrestrial Radio Access (E-UTRA); Packet Data Convergence Protocol (PDCP) specification".
[14]	3GPP TS 36.331: "Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC) Protocol Specification".
[15]	3GPP TS 24.301: "Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3"
[16]	3GPP TS 36.307: "Requirements on User Equipments (UEs) Supporting a release-independent frequency band".
[17]	3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".
[18]	3GPP TS 36.133: "Evolved Universal Terrestrial Radio Access (E-UTRA); Requirements for support of radio resource management".
[19]	3GPP TS 36.101: "E-UTRA UE radio transmission and reception".

3 Definitions, symbols and abbreviations

For the purposes of the present document, the following terms, definitions, symbols and abbreviations apply:

- such given in TR 21.905 [8]
- such given in ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]

NOTE: Some terms and abbreviations defined in [3] and [4] are explicitly included below with small modification to reflect the terminology used in 3GPP.

3.1 Definitions

Implementation Conformance Statement (ICS): statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented

ICS proforma: document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS

Implementation eXtra Information for Testing (IXIT): A statement made by a supplier or implementer of an UEUT which contains or references all of the information (in addition to that given in the ICS) related to the UEUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the UEUT

IXIT proforma: A document, in the form of a questionnaire, which when completed for an UEUT becomes an IXIT

Protocol Implementation Conformance Statement (PICS): An ICS for an implementation or system claimed to conform to a given protocol specification

Protocol Implementation eXtra Information for Testing (PIXIT): An IXIT related to testing for conformance to a given protocol specification

static conformance review: A review of the extent to which the static conformance requirements are claimed to be supported by the UEUT, by comparing the answers in the ICS(s) with the static conformance requirements expressed in the relevant specification(s)

3.2 Symbols

No specific symbols have been identified so far.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [8].

For the purposes of the present document, the following abbreviations apply:

ICSImplementation Conformance StatementIXITImplementation eXtra Information for TestingPICSProtocol Implementation Conformance StatementPIXITProtocol Implementation eXtra Information for Testing

RRM Radio Resource Management SCS System Conformance Statement

TC Test Case

UEUT User Equipment Under Test

4 Recommended test case applicability

The applicability of each individual test is identified in the tables 4.1-1 or 4.2-1. This is just a recommendation based on the purpose for which the test case was written.

The applicability of every test is formally expressed by the use of Boolean expression that are based on parameters (ICS) included in annex A of the present document.

Selection criteria of tested bands / CA-Configurations for each applicable test is formally expressed using group theory based on parameters (ICS) included in annex A of the present document.

Additional information related to the Test Case (TC), e.g. affecting its dynamic behaviour or its execution may be provided as well

The columns in tables 4.1-1 / 4.2-1 have the following meaning:

Clause

The clause column indicates the clause number in TS 36.521-1 [1] or respectively TS 36.521-3 [2] that contains the test body.

Title

The title column describes the name of the test and contains the clause title of the clause in TS 36.521-1 [1] or TS 36.521-3 [2] that contains the test body.

Release

The release column indicates the earliest release from which each test case is applicable. It may also indicate a range of releases or a single release to which a test case is applicable.

Applicability - Condition

The following notations are used for the applicability column:

R recommended - the test case is recommended to all terminals supporting E-UTRA

O optional - the test case is optional

N/A not applicable - in the given context, the test case is not recommended.

Ci conditional - the test is recommended ("R") or not ("N/A") depending on the support of other items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table. For nested conditional expressions, the syntax "IF ... THEN (IF ... THEN ... ELSE...) ELSE ..." is used to avoid ambiguities.

Applicability - Comments

This comments column contains a verbal description of the condition included in the applicability column.

Tested Bands / CA-Configurations Selection

This column defines a set of bands / CA Configurations the test is to be run for, if the test is applicable. If the set is empty, the test is considered as not applicable.

The following notations are used in the tested bands selection column:

Di	Derive the set based on Band Selection Criteria Di defined in table 4.1-1b.
Ei	Derive the set based on CA Configurations Selection Criteria Ei defined in table 4.1-1c.
TBD	Band selection not defined at this time, in the meantime test all Bands / CA Configurations
Text	For more complex selection criteria, or if the criteria are already specified somewhere else in the spec, text reference to the section is given.

Branch

This column contains indication if the test case may perform differently depending on the UE capabilities.

- NOTE 1: To meet the validation requirements from certification bodies then there is a need to uniquely reference the FDD and TDD branch (i.e. different behaviour within one and the same TC) of common FDD and TDD RF test cases in table 4.1-1. The FDD and TDD branches of common FDD and TDD test cases can be referenced by amending a "FDD" or "TDD" suffix to the test case clause number. For example for test case 6.2.2 the FDD and TDD branches can be identified by "6.2.2 FDD" and "6.2.2 TDD".
- NOTE 2: To meet the validation requirements from certification bodies then there is a need to uniquely reference the 2Rx (UE supports 2 Rx antenna ports in the tested band) and 4Rx (UE supports 4 Rx antenna ports in the tested band) branch of common 2Rx and 4Rx RRM test cases in table 4.2-1. The 2Rx and 4Rx branches of common 2Rx and 4Rx test cases can be referenced by amending a "2Rx" or "4Rx" suffix to the test case clause number. For example for test case 4.2.1 the 2Rx and 4Rx branches can be identified by "4.2.1_2Rx" and "4.2.1_4Rx".

Additional Information

This column contains additional information

4.1 RF conformance test cases

NOTE: To determine applicability of a test case, FGI support in combined or fdd-Add-UE-EUTRA-Capabilities or tdd-Add-UE-EUTRA-Capabilities is taken into account.

Table 4.1-1: Applicability of RF conformance test cases, ref. TS 36.521-1 [1]

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
			Т	ransmitter Chara	acteristics		
6.2.2	UE Maximum Output Power	Rel-8	C186	UE supporting E- UTRA Power Class 3	D01	FDD, TDD	Not required to be tested in Band 41 for Power Class 2 UE
6.2.2_1	UE Maximum Output Power for HPUE	Rel-10	C39	UE supporting E- UTRA Power Class 1 or Power Class 2	D04	FDD, TDD	FDD is for Power Class1, TDD is for Power Class 2
6.2.2A.1	UE Maximum Output Power for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.2.2A.2	UE Maximum Output Power for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
		Rel-14	C305	UE supporting E- UTRA and eLAA			
6.2.2A.3	UE Maximum Output Power for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.2.2A.4	UE Maximum Output Power for CA (3UL CA)	Rel-13	C19a	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E18	TDD	
			C116a	UE supporting E- UTRA and inter-band DL CA and UL CA	E18	FDD, TDD	
6.2.2B	UE Maximum Output Power for UL-MIMO	Rel-10	C07	UE supporting E- UTRA Power Class 3 and UL-MIMO	D05	FDD, TDD	
6.2.2B_1	HPUE Maximum Output Power for UL-MIMO	Rel-10	C202	UE supporting E- UTRA Power Class 2 and UL-MIMO	D05	TDD	
6.2.2E	UE Maximum Output Power for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.2.2EA	UE Maximum Output Power for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.2.2EB	UE Maximum Output Power for UE category 1bis	Rel-13	C122c	UE supporting E- UTRA and UE category 1bis			
6.2.2F	UE Maximum Output Power for category NB1	Rel-13	C112b	UE supporting category NB1	D11	HD- FDD	
6.2.2G.1	UE Maximum Output Power for V2X Communication / Non-concurrent with E-UTRA uplink transmission	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.2.2G.2	UE Maximum Output Power for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmission	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.2.3EB	Maximum Power Reduction (MPR) for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis			
6.2.4EB	Additional Maximum Power Reduction (A-MPR) for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis			
6.2.5	Configured UE transmitted Output Power	Rel-8	C186	UE supporting E- UTRA Power Class 3	D01	FDD, TDD	Not required to be tested in Band 41 for Power Class 2 UE
6.2.5_1	Configured UE transmitted Output Power for HPUE	Rel-10	C39	UE supporting E- UTRA Power Class 1 or Power Class 2	D04	FDD, TDD	FDD is for Power Class1, TDD is for Power Class 2
6.2.5A.1	Configured UE transmitted Output Power for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.2.5A.3	Additional Maximum Power Reduction (A-MPR) for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.2.5A.4	Additional Maximum Power Reduction (A-MPR) for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.2.5B	Configured transmitted power for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.2.5E	Configured transmitted power for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
6.2.5EA	Configured UE transmitted Power for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.2.5EB	Configured UE transmitted Power for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis			
6.2.5F	Configured UE transmitted Output Power for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.2.5G.1	Configured UE transmitted Output Power for V2X Communication / Non-concurrent with E-UTRA uplink transmission	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.2.5G.2	Configured UE transmitted Output Power for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmission	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.3.1	Void			UE		FDD,	
6.3.2	Minimum Output Power	Rel-8	C113	supporting E- UTRA	D01	TDD	
6.3.2A.1	Minimum Output Power for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.3.2A.2	Minimum Output Power for CA (inter- band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.2A.3	Minimum Output Power for CA (intra- band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and inter-band DL CA and UL CA	E02	FDD	
6.3.2A.4	Minimum Output Power for CA (3UL CA)	Rel-13	C19a	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E18	TDD	
			C116a	UE supporting E- UTRA and inter-band DL CA and UL CA	E18	FDD, TDD	
6.3.2B	Minimum Output Power for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.3.2E	Minimum Output Power for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.3.2EA	Minimum Output Power for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.3.2EB	Minimum Output Power for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.2F	Minimum Output Power for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.3.2G.1	Minimum output power for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.3.2G.2	Minimum output power for V2X Communication / Simultaneous E-UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.3.3	Transmit OFF Power	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.3.3A.1	Transmit OFF Power for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.3A.2	UE Transmit OFF power for CA (inter- band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA UE	E03	FDD, TDD	
6.3.3A.3	Transmit OFF Power for CA (intra- band non- contiguous DL CA and UL CA)	Rel-11	C115	supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	TDD	
6.3.3B	UE Transmit OFF power for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.3.3E	UE Transmit OFF power for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.3.3EA	UE Transmit OFF power for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.3.3EB	UE Transmit OFF power for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.3G.1	UE Transmit OFF power for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.3.3G.2	UE Transmit OFF power for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.3.4.1	General ON/OFF time mask	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.3.4.2.1	PRACH time mask	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.3.4.2.2	SRS time mask	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.3.4A.1. 1	General ON/OFF time mask for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.4A.1. 2	General ON/OFF time mask for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.3.4A.1. 3	General ON/OFF time mask for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.3.4A.1. 4	General ON/OFF time mask for CA (3UL CA)	Rel-13	C19a	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E18	TDD	
			C116a	UE supporting E- UTRA and inter-band DL CA and UL CA	E18	FDD, TDD	
6.3.4B.1	ON/OFF time mask for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.3.4C.1	General ON/OFF time mask for Dual Connectivity	Rel-12	C224	UE supporting Dual Connectivity	E03	FDD, TDD	
6.3.4C.1_ 1	General ON/OFF time mask for asynchronous Dual Connectivity	Rel-12	C225	UE supporting asynchronou s Dual Connectivity	E03	FDD, TDD	
6.3.4E.1	General ON/OFF time mask for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.3.4E.2	Prach and SRC ON/OFF time mask for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.3.4EA.1	General ON/OFF time mask for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.3.4EA.2 .1	PRACH time mask for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.3.4EA.2 .2	SRS time mask for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.4EB.1	General ON/OFF time mask for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.4EB.2 .1	PRACH time mask for UE category 1bis	Rel13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.4EB.2 .2	SRS time mask for UE category 1bis	Rel13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.4F.1	General ON/OFF time mask for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.3.4F.2	NPRACH time mask for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.3.4G.1	General ON/OFF time mask for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.3.4G.2	General ON/OFF time mask for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.3.4G.4	PSSS/SSSS time mask for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.3.5.1	Power Control Absolute Power Tolerance	Rel-8	C186	UE supporting E- UTRA Power Class 3	D01	FDD, TDD	
6.3.5.2	Power Control Relative Power Tolerance	Rel-8	C186	UE supporting E- UTRA Power Class 3	D01	FDD, TDD	
6.3.5.3	Aggregate Power Control Tolerance	Rel-8	C186	UE supporting E- UTRA Power Class 3	D01	FDD, TDD	Not required to be tested in Band 41 for Power Class 2 UE
6.3.5A.1. 1	Power Control Absolute Power Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	

Clause	Title	Release	Applica	Applicability		Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.5A.1. 2	Power Control Absolute Power Tolerance for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	6.3.5A.1.2
		Re	C305	UE supporting E- UTRA and eLAA			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.5A.1. 3	Power Control Absolute Power Tolerance for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.3.5A.2. 1	Power Control Relative Power Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.3.5A.2. 2	Power Control Relative Power Tolerance for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
		Rel-14	C305	UE supporting E- UTRA and eLAA			
6.3.5A.2. 3	Power Control Relative Power Tolerance for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.3.5A.3. 1	Aggregate Power Control Tolerance for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.3.5A.3. 2	Aggregate Power Control Tolerance for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.3.5A.3. 3	Aggregate Power Control Tolerance for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.3.5B.1	Power Control Absolute power tolerance for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.3.5B.2	Power Control Relative power tolerance for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.5B.3	Aggregate power control tolerance for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.3.5C.2	Power Control Relative power tolerance for Dual Connectivity	Rel-12	C224	UE supporting Dual Connectivity	E03	FDD, TDD	
6.3.5C.2_ 1	Power Control Relative power tolerance for asynchronous Dual Connectivity	Rel-12	C225	UE supporting asynchronou s Dual Connectivity	E03	FDD, TDD	
6.3.5E.1	Power Control Absolute power tolerance for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.3.5E.2	Power Control Relative power tolerance for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.3.5E.3	Aggregate power control tolerance for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.3.5EA.1	Power control for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.3.5EA.2	Power Control Relative power tolerance for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.3.5EA.3	Aggregate power control tolerance for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.3.5EA.3 _1	Aggregate power control tolerance for UE category M1 (CE Mode B)	Rel-13	C156c	UE supporting E- UTRA and UE category M1	D02	HD- FDD	
6.3.5EB.1	Power Control Absolute power tolerance for UE category 1bis	Rel13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.5EB.2	Power Control Relative power tolerance for UE category 1bis	Rel13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.5EB.3	Aggregate power control tolerance for UE category 1bis	Rel13	C112c	UE supporting E- UTRA and UE category 1bis			
6.3.5F.1	Power Control Absolute power tolerance for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.3.5F.2	Power Control Relative power tolerance for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.3.5F.3	Aggregate power control tolerance for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.3.5_1.1	Power Control Absolute Power Tolerance for HPUE	Rel-10	C39	UE supporting E- UTRA Power Class 1 or Power Class 2	D04	FDD, TDD	FDD is for Power Class1, TDD is for Power Class 2
6.3.5_1.2	Power Control Relative Power Tolerance for HPUE	Rel-10	C39	UE supporting E- UTRA Power Class 1 or Power Class 2	D04	FDD, TDD	FDD is for Power Class1, TDD is for Power Class 2
6.3.5_1.3	Aggregate Power Control Tolerance for HPUE	Rel-10	C39	UE supporting E- UTRA Power Class 1 or Power Class 2	D04	FDD, TDD	FDD is for Power Class1, TDD is for Power Class 2
6.3.5G.1	Power Control Absolute power tolerance for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.3.5G.2	Power Control Absolute power tolerance for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.5.1	Frequency Error	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.5.1A.1	Frequency Error for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.5.1A.2	Frequency error for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.5.1A.3	Frequency Error for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.5.1A.4	Frequency error for CA (3UL CA)	Rel-13	C19a	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E18	TDD	
			C116a	UE supporting E- UTRA and inter-band DL CA and UL CA	E18	FDD, TDD	
6.5.1B	Frequency Error for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.5.1D.1	Frequency error for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	
6.5.1D.2	Frequency error for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
6.5.1E	Frequency Error for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.5.1EA	Frequency Error for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.5.1EA_ 1	Frequency Error for UE category M1 (CEmodeB)	Rel-13	C156c	UE supporting E- UTRA FDD and (UE category M1 and CE Mode B)	D02	FDD, HD- FDD, TDD	
6.5.1EB	Frequency Error for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
6.5.1F	Frequency Error for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.5.1G.1	Frequency Error for V2X Communication / Non-concurrent with E-UTRA uplink transmission	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.5.1G.2	Frequency error for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.5.2.1	Error Vector Magnitude (EVM)	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.5.2.1_1	Error Vector Magnitude (EVM) for UL 64QAM	Rel-13	C147	UE supporting E- UTRA and UL 64QAM	D01	FDD, TDD	Note 1
6.5.2.1_2	Error Vector Magnitude (EVM) for UL 256QAM	Rel-14	C301	UE supporting E- UTRA and UL 256QAM	D01	FDD, TDD	
6.5.2.1A	PUSCH-EVM with exclusion period	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.5.2.1E. 1	Error Vector Magnitude for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.5.2.1E. 2	PUSCH-EVM with exclusion period for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.5.2.1EA .1	Error Vector Magnitude (EVM) for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.5.2.1EA .2	PUSCH-EVM with exclusion period for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.5.2.1EB	Error Vector Magnitude (EVM) for UE category	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
6.5.2.1F. 1	Error Vector Magnitude (EVM) for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.5.2.1G. 1	Error Vector Magnitude (EVM) for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.5.2.2	Carrier leakage	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.5.2.2E	Carrier leakage for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.5.2.2EA	Carrier leakage for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.5.2.2EB	Carrier leakage for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
6.5.2.2F	Carrier leakage for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.5.2.2G. 1	Carrier leakage for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.5.2.3	In-band emissions for non allocated RB	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.5.2.3E	In-band emissions for non allocated RB for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.5.2.3EA	In-band emissions for non allocated RB for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.5.2.3EB	In-band emissions for non allocated RB for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
6.5.2.3F	In-band emissions for non allocated RB for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
6.5.2.3G. 1	In-band emissions for non-allocated RB for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.5.2.3G. 2	Introduction of Inband emissions for non-allocated RB for V2X Communication / Simultaneous E-UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.5.2.4	EVM equalizer spectrum flatness	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.5.2.4E	EVM equalizer spectrum flatness for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.5.2.4EA	EVM equalizer spectrum flatness for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.5.2.4EB	EVM equalizer spectrum flatness for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
6.5.2.4G. 1	Spectrum Emission Mask for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.5.2A.1. 1	Error Vector Magnitude (EVM) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.5.2A.1. 1_1	EVM for CA (intra- band contiguous DL CA and UL CA) with UL 64QAM	Rel-13	C148	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM.	E01	FDD, TDD	Note 1
6.5.2A.1. 1_2	EVM for CA (intra- band contiguous DL CA and UL CA) with UL 256QAM	Rel-14	C302	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA and UL 256QAM.	E01	FDD, TDD	
6.5.2A.1. 2	Error Vector Magnitude (EVM) for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.5.2A.1. 2_1	Error Vector Magnitude (EVM) for CA (inter-band DL CA and UL CA) for UL 64QAM	Rel-13	C160	UE supporting E- UTRA and inter-band DL CA and UL CA and UL 64QAM	E03	FDD, TDD	Note 1
6.5.2A.1. 2_2	Error Vector Magnitude (EVM) for CA (inter-band DL CA and UL CA) for UL 256QAM	Rel-14	C303	UE supporting E- UTRA and inter-band DL CA and UL CA and UL 256QAM.	E03	FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.5.2A.1. 3	Error Vector Magnitude (EVM) for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.5.2A.1. 3_1	Error Vector Magnitude (EVM) for CA (intra-band non-contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C185	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA and UL 64QAM	E02	FDD, TDD	
6.5.2A.1. 3_2	Error Vector Magnitude (EVM) for CA (intra-band non-contiguous DL CA and UL CA) for UL 256QAM	Rel-14	C304	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA and UL 256QAM	E02	FDD, TDD	
6.5.2A.2. 1	Carrier leakage for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.5.2A.2. 2	Carrier leakage for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.5.2A.2. 3	Carrier leakage for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.5.2A.3. 1	In-band emissions for non allocated RB for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.5.2A.3. 2	In-band emissions for non allocated RB for CA (inter- band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.5.2A.3. 3	In-band emissions for non allocated RB for CA (intra- band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.5.2B.1	Error Vector Magnitude for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.5.2B.2	Carrier leakage for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.5.2B.3	In-band emissions for non allocated RB for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.5.2B.4	EVM equalizer spectrum flatness for UL-MIMO	Rel-10	C07	UE supporting E-UTRA and UL_MIMO	D05	FDD, TDD	
6.6.1	Occupied bandwidth	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.6.1A.1	Occupied bandwidth for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.6.1A.2	6.6.1A.2 Occupied bandwidth for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
		Rel-14	C305	UE supporting E- UTRA and eLAA			
6.6.1A.3	Occupied bandwidth for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.6.1B	Occupied bandwidth for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.6.1E	Occupied bandwidth for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.6.1EA	Occupied bandwidth for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.6.1EB	Occupied bandwidth for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.6.1F	Occupied bandwidth for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	FDD, HD- FDD, TDD	
6.6.1G.1	Occupied bandwidth for V2X Communication / Non-concurrent with E-UTRA uplink transmission	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.6.1G.2	Occupied bandwidth for V2X Communication / Simultaneous E-UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.6.2.1	Spectrum Emission Mask	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.6.2.1_1	Spectrum Emission Mask for Multi- cluster PUSCH	Rel-10	C100	UE supporting E- UTRA and Multi-Cluster PUSCH	D07	FDD, TDD	
6.6.2.1A. 1	Spectrum Emission Mask for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.6.2.1A. 2	Spectrum Emission Mask for CA (inter- band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.6.2.1A. 3	Spectrum Emission Mask for CA (intra- band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.6.2.1B	Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.6.2.1E	Spectrum Emission Mask for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.6.2.1EA	Spectrum Emission Mask for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.6.2.1EB	Spectrum Emission Mask for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.6.2.1F	Spectrum Emission Mask for category NB1	Rel-13	C112b	UE supporting category NB1	D11	HD- FDD	
6.6.2.1G. 1	Spectrum Emission Mask for V2X Communication Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.6.2.1G. 2	Introduction of Spectrum Emission Mask for V2X Communication /Sidelink simultaneous with E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.6.2.2	Additional Spectrum Emission Mask	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.6.2.2_1	Additional Spectrum Emission Mask for UL 64QAM	Rel-13	C147	UE supporting E- UTRA and UL 64QAM	D01	FDD, TDD	Note 1
6.6.2.2_2	Additional Spectrum Emission Mask for UL 256QAM	Rel-14	C301	UE supporting E- UTRA and UL 256QAM	D01	FDD, TDD	
6.6.2.2A. 1	Additional Spectrum Emission Mask for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C319	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.6.2.2A. 2	Additional Spectrum Emission Mask for CA (inter- band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.6.2.2A. 3	Additional Spectrum Emission Mask for CA (intra- band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.6.2.2A. 1_1	Additional Spectrum Emission Mask for CA (intra- band contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C148	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM.	E01	FDD, TDD	Note 1
6.6.2.2A. 2_1	Additional Spectrum Emission Mask for CA (inter- band DL CA and UL CA) for UL 64QAM	Rel-13	C160	UE supporting E- UTRA and inter-band DL CA and UL CA and UL 64QAM	E03	FDD, TDD	Note 1
6.6.2.2B	Additional Spectrum Emission Mask for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.6.2.2E	Additional Spectrum Emission Mask for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.6.2.2EA	Additional Spectrum Emission Mask for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.6.2.2EB	Additional Spectrum Emission Mask for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.6.2.2G. 1	Additional Spectrum Emission Mask for V2X Communication / Non-concurrent with E-UTRA uplink transmission	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.6.2.2G. 2	Additional Spectrum Emission Mask for V2X Communication / Sidelink simultaneous with E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.6.2.3	Adjacent Channel Leakage power Ratio	Rel-8	C186	UE supporting E- UTRA Power Class 3	D01	FDD, TDD	Not required to be tested in Band 41 for Power Class 2 UE
6.6.2.3_1	Adjacent Channel Leakage power Ratio for HPUE	Rel-10	C39	UE supporting E- UTRA Power Class 1 or Power Class 2	D04	FDD, TDD	FDD is for Power Class1, TDD is for Power Class 2
6.6.2.3_2	Adjacent Channel Leakage power Ratio for Multi- Cluster PUSCH	Rel-10	C159 (Note 2)	UE supporting E- UTRA and Multi-Cluster PUSCH	D07	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.6.2.3A. 1	Adjacent Channel Leakage power Ratio for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.6.2.3A. 2	Adjacent Channel Leakage power Ratio for CA (inter- band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
		Rel-14	C305	UE supporting E- UTRA and eLAA			
6.6.2.3A. 3	Adjacent Channel Leakage power Ratio for CA (intra- band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.6.2.3A. 1_1	Adjacent Channel Leakage power Ratio for CA (intra- band contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C148	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM	E01	FDD, TDD	Note 1
6.6.2.3A. 2_1	Adjacent Channel Leakage power Ratio for CA (inter- band DL CA and UL CA) for UL 64QAM	Rel-13	C160	UE supporting E- UTRA and inter band DL CA and UL CA and UL 64QAM	E03	FDD, TDD	Note 1
6.6.2.3A. 3_1	Adjacent Channel Leakage power Ratio for CA (intra- band non- contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C161	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA and UL 64QAM	E02	FDD, TDD	Note 1
6.6.2.3A. 3_2	Adjacent Channel Leakage power Ratio for CA (intra- band non- contiguous DL CA and UL CA) for UL 256QAM	Rel-14	C304	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA and UL 256QAM	E02	FDD, TDD	
6.6.2.3B	Adjacent Channel Leakage power Ratio for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	

Clause	Title	Release	Applicability		Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.6.2.3E	Adjacent Channel Leakage power Ratio for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.6.2.3EA	Adjacent Channel Leakage power Ratio for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.6.2.3EB	Adjacent Channel Leakage power Ratio for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.6.2.3F	Adjacent Channel Leakage power Ratio for category NB1	Rel-13	C112b	UE supporting category NB1	D11	HD- FDD	
6.6.2.3G. 1	Adjacent Channel Leakage power Ratio for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.6.2.3_3	Adjacent Channel Leakage power Ratio for UL 64QAM	Rel-13	C147	UE supporting E- UTRA and UL 64QAM	D01	FDD, TDD	Note 1
6.6.2.3_4	Adjacent Channel Leakage power Ratio for Multi- Cluster PUSCH with UL 64QAM	Rel-13	C149	UE supporting E- UTRA and Multi-Cluster PUSCH and UL 64QAM	D07	FDD, TDD	Note 1
6.6.2.3_5	Adjacent Channel Leakage power Ratio for UL 256QAM	Rel-14	C301	UE supporting E- UTRA and UL 64QAM	D01	FDD, TDD	
6.6.2.4	Void			UE		FDD,	
6.6.3.1	Transmitter Spurious emissions	Rel-8	C113	supporting E- UTRA UE	D01	TDD FDD,	
6.6.3.1_1	Transmitter Spurious emissions for Multi-Cluster PUSCH	Rel-10	C100	supporting E- UTRA and Multi-Cluster PUSCH	D07	TDD	
6.6.3.1A. 1	Transmitter Spurious emissions for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.6.3.1A. 2	Transmitter Spurious emissions for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	

Clause	Title	Release	Applicability		Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-14	C305	UE supporting E- UTRA and eLAA			
6.6.3.1A. 3	Transmitter Spurious emissions for CA (intra-band non-contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.6.3F.1	Transmitter Spurious emissions for category NB1	Rel-13	C112b	UE supporting category NB1	D11	HD- FDD	
6.6.3F.2	Spurious emission band UE co- existence for category NB1	Rel-13	C112b	UE supporting category NB1	D11	HD- FDD	
6.6.3.2	Spurious emission band UE co-existence	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.6.3.2A. 1	Spurious emission band UE co- existence for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.6.3.2A. 2	Spurious emission band UE co- existence for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
6.6.3.2A. 3	Spurious emission band UE co- existence for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.6.3.3	Additional spurious emissions	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.6.3.3_1	Additional spurious emissions for UL 64QAM	Rel-13	C147	UE supporting E- UTRA and UL 64QAM	D01	FDD, TDD	Note 1
6.6.3.3_2	Additional spurious emissions for UL 256QAM	Rel-14	C301	UE supporting E- UTRA and UL 256QAM	D01	FDD, TDD	
6.6.3.3A. 1	Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C319	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	

Clause	Title	Release	Applicability		Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.6.3.3A. 1_1	Additional spurious emissions for CA (intra-band contiguous DL CA and UL CA) for UL 64QAM	Rel-13	C148	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA and UL 64QAM.	E01	FDD, TDD	Note 1
6.6.3.3A. 2	Additional spurious emissions for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	
		Rel-14	C305	UE supporting E- UTRA and eLAA			
6.6.3.3A. 2_1	Additional spurious emissions for CA (inter-band DL CA and UL CA) for UL 64QAM	Rel-13	C160	UE supporting E- UTRA and inter-band DL CA and UL CA and UL 64QAM	E03	FDD, TDD	Note 1
6.6.3.3A. 3	Additional spurious emissions for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD, TDD	
6.6.3B.2	Spurious emission band UE co- existence for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.6.3E.1	Transmitter Spurious emissions for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.6.3E.2	Transmitter Spurious Band UE co-existence for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.6.3EA.1	Transmitter Spurious emissions for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.6.3EA.2	Spurious emission band UE co- existence for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.6.3EA.3	Additional spurious emissions for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applicability		Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.6.3EB.1	Transmitter Spurious emissions for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.6.3EB.2	Spurious emission band UE co- existence for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.6.3EB.3	Additional spurious emissions for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.6.3E.3	Additional spurious emissions for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.6.3G.1	Transmitter Spurious emissions for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.6.3G.1_ 1	Spurious emission band UE co-existence for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.6.3G.2	Spurious emission for V2X Communication / Sidelink simultaneous with E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.6.3G.2_ 1	Spurious emission band UE co-existence for V2X Communication / Sidelink simultaneous with E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.7	Transmit intermodulation	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
6.7A.1	Transmit intermodulation for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD, TDD	
6.7A.2	Transmit intermodulation for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD, TDD	

Clause	Title	Release	Applicability		Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
6.7B	Transmit intermodulation for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
6.7E	Transmit intermodulation for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0	D01	FDD, HD- FDD, TDD	
6.7EA	Transmit intermodulation for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
6.7EB	Transmit intermodulation for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, TDD	
6.7F	Transmit intermodulation for category NB1	Rel-13	C112b	UE supporting Category NB1	D12, D13	HD- FDD	
6.7G.1	Transmit intermodulation for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
6.7G.2	Transmit intermodulation for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
6.8B	Time alignment between transmitter branches for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
				Receiver Charac	teristics		
7.3	Reference sensitivity level	Rel-8	C113	UE supporting E- UTRA	D01	FDD, TDD	
7.3_1	Reference sensitivity level with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	
7.3A.1	Reference sensitivity level for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.3A.2	Reference sensitivity level for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E08	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.3A.3	Reference sensitivity level for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E10	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA		KX	
		Rel-13	C207	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA under FS3			
		Rel-13	C208	UE supporting E- UTRA and 2DL CA with TDD-TDD inter-band CA under FS3			
7.3A.4	Reference sensitivity level for CA (intra-band non- contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.3A.5	Reference sensitivity level for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E19	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E19		
		Rel-12	C123	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3	E19		
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3	E19		
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3	E17		
7.3A.6	Reference sensitivity level for CA (inter-band DL CA and UL CA)	Rel-11	C116	UE supporting E- UTRA and inter-band DL CA and UL CA	E03	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.3A.7	Reference sensitivity level for CA (intra-band non- contiguous DL CA and UL CA)	Rel-11	C115	UE supporting E- UTRA and intra-band non- contiguous DL CA and UL CA	E02	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.3A.9	Reference sensitivity level for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E21	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C211	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E21		
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4	E21		
7.3A.10	Reference sensitivity level for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5	E15		
			C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5	E15		
7.3E	Reference sensitivity level for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.3EA	Reference sensitivity level for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
7.3EB	Reference sensitivity level for UE category 1bis	Rel-14	C112c	UE supporting E- UTRA and UE category 1bis	D01	FDD, HD- FDD, TDD	
7.3B	Reference sensitivity level for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.3F.1	Reference sensitivity level without repetitions for category NB1	Rel-13	C112b	UE supporting category NB1	D11	HD- FDD	
7.3F.2	Reference sensitivity level with repetitions for category NB1	Rel-13	C112b	UE supporting category NB1	D11	HD- FDD	
7.3G.1	Reference sensitivity level for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
7.3G.2	Reference sensitivity level for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
7.4	Maximum input level	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.4_1	Maximum input level with 4 Rx antenna ports	Rel-10	C168	UE supporting E- UTRA with 4Rx antenna ports but not 256QAM in DL	D09	FDD, TDD	
7.4_H	7.4_H Maximum input level for 256QAM in DL	Rel-12	C113h	UE supporting E- UTRA and 256QAM in DL	D01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.1	Maximum input level for CA (intra- band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.1_H	Maximum input level for CA (intra- band contiguous DL CA and UL CA) for 256QAM in DL	Rel-12	C19h	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA and 256QAM in DL	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.2	Maximum input level for CA (intra- band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E08	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.2_H	Maximum input level for CA (intra- band contiguous DL CA without UL CA) for 256QAM in DL	Rel-12	C20h	UE supporting E- UTRA and intra-band contiguous DL CA and 256QAM in DL	E08	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.3	Maximum input level for CA (inter- band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E10	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA			
		Rel-13	C207	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA under FS3			
		Rel-13	C208	UE supporting E- UTRA and 2DL CA with TDD-TDD inter-band CA under FS3			
7.4A.3_H	Maximum input level for CA (inter- band DL CA without UL CA) for 256QAM in DL	Rel-12	C21h	UE supporting E- UTRA and inter-band DL CA and 256QAM in DL	E10	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.4	Maximum input level for CA (intra band non- contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.4_H	Maximum input level for CA (intra band non- contiguous DL CA without UL CA) for 256QAM in DL	Rel-12	C43h	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA and 256QAM in DL	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.4A.5	Maximum input level for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07		
		Rel-12	C123	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3	E07		
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3	E07		
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3	E07		
7.4A.5_H	Maximum input level for 3DL CA for 256QAM in DL	Rel-12	C122h	UE supporting E- UTRA and 3DL CA and 256QAM in DL	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with FDD-TDD CA under FS3	E07		
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with TDD-TDD CA under FS3	E07		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.4A.7	Maximum input level for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C211	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14		
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4	E14		
7.4A.7_H	Maximum input level for 4DL CA for 256QAM in DL	Rel-13	C187h	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4 and 256QAM in DL	E14	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
7.4A.8	Maximum input level for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
		Rel-12	C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
7.4A.8_H	Maximum input level for 5DL CA for 256QAM in DL	Rel-13	C221h	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5 and 256QAM in DL	E15	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
7.4B	Maximum input level for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.4D.1	Maximum input level for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	
7.4D.2	Maximum input level for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
7.4E	Maximum input level for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.4EA	Maximum input level for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
7.4EB	Maximum input level for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.4EC	Maximum input level for UE category M2	Rel-14	C112d	UE supporting E- UTRA and UE category M2	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applic	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.4F	Maximum input level for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
7.4G.1	Maximum input level for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
7.4G.2	Maximum input level for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
7.5	Adjacent Channel Selectivity (ACS)	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	
7.5_1	Adjacent Channel Selectivity (ACS) with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	
7.5A.1	Adjacent Channel Selectivity (ACS) for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.5A.2	Adjacent Channel Selectivity (ACS) for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E11	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.5A.3	Adjacent Channel Selectivity (ACS) for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E12	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 TDD_4	
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA		Rx	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-13	C207	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA under FS3			
		Rel-13	C208	UE supporting E- UTRA and 2DL CA with TDD-TDD inter-band CA under FS3			
7.5A.4	Adjacent Channel Selectivity (ACS) for CA (intra band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.5A.5	Adjacent Channel Selectivity (ACS) for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3			
		Rel-12	C123	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3			
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			
7.5A.7	Adjacent Channel Selectivity (ACS) for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14	FDD _2R _x, FDD _4R _x, TDD _4R _x, FDD _2R _x, FDD _1DD _4R _x	
		Rel-11	C211	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4			
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.5A.8	Adjacent Channel Selectivity (ACS) for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDD 2R x, FDD 4R x, TDD 2R x, FDD - TDD - TDD - TDD - TDD - TDD - X	
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5		*	
		Rel-12	C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
7.5B	Adjacent Channel Selectivity (ACS)for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.5D.1	Adjacent Channel Selectivity (ACS) for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	
7.5D.2	Adjacent Channel Selectivity (ACS) for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
7.5E	Adjacent Channel Selectivity (ACS) for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.5EA	Adjacent Channel Selectivity (ACS) for category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.5EB	Adjacent Channel Selectivity (ACS) for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.5F	Adjacent Channel Selectivity (ACS) for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
7.5G.1	Adjacent channel selectivity (ACS) for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
7.5G.2	Adjacent channel selectivity (ACS) for V2X Communication / Simultaneous E-UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
7.6.1	In-band blocking	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	
7.6.1_1	In-band blocking with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	
7.6.1A.1	In-band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.1A.2	In-band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E11	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.1A.3	In-band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E12	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA			
		Rel-13	C207	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA under FS3			
		Rel-13	C208	UE supporting E- UTRA and 2DL CA with TDD-TDD inter-band CA under FS3			
7.6.1A.4	In-band blocking for CA (intra-band non- contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.1A.5	In-band blocking for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3			
		Rel-12	C123	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3under FS3			
7.6.1A.7	In-band blocking for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C211	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4			
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.6.1A.8	In-band blocking for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDD _2R _x, FDD _4R _x, TDD _4R _x, FDD _2R _x, FDD _1DD _4R _x	
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
		Rel-12	C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
7.6.1B	In-band blocking for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.6.1D.1	In-band blocking for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	
7.6.1D.2	In-band blocking for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
7.6.1E	In-band blocking for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.6.1EA	In-band blocking for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	Applicability		Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.6.1EB	In-band blocking for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.6.1F	In-band blocking for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
7.6.1G.1	In-band blocking for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
7.6.1G.2	In-band blocking for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
7.6.2	Out of-band blocking	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	
7.6.2_1	Out of-band blocking with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	
7.6.2A.1	Out of-band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.2A.2	Out of-band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E08	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.2A.3	Out of-band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E10	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA			
		Rel-13	C207	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA under FS3	E12		
		Rel-13	C208	UE supporting E- UTRA and 2DL CA with TDD inter- band CA under FS3			
7.6.2A.4	Out of-band blocking for CA (intra-band non- contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.2A.5	Out-of-band blocking for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3			
		Rel-12	C123	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			
7.6.2A.7	Out-of-band blocking for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C211	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4			
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.6.2A.8	Out-of-band blocking for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDR	
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5		*	
		Rel-12	C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
7.6.2B	Out-of-band blocking for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.6.2D.1	Out-of-band blocking for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	
7.6.2D.2	Out-of-band blocking for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
7.6.2E	Out of-band blocking for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.6.2EA	Out of-band blocking for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.6.2EB	Out-of-band blocking for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.6.2F	Out-of-band blocking for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
7.6.2G.1	Out-of-band blocking for V2X Communication/ Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
7.6.2G.2	Out-of-band blocking for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
7.6.3	Narrow band blocking	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	
7.6.3_1	Out of-band blocking with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	
7.6.3A.1	Narrow band blocking for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.3A.2	Narrow band blocking for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E08	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.3A.3	Narrow band blocking for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E10	FDD_2 Rx. FDD_4 Rx. TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band DL CA			
7.6.3A.4	Narrow band blocking for CA (intra-band non- contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.6.3A.5	Narrow band blocking for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3			
		Rel-12	C123	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3			
7.6.3A.7	Narrow band blocking for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	TBD	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4			
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4			
7.6.3A.8	Narrow band blocking for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDD _2R x, FDD _4R x, TDD _2R x, FDD _2R x, FDD _4R x	
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
		Rel-12	C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
7.6.3B	Narrow band blocking for UL- MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.6.3D.1	Narrow band blocking for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.6.3D.2	Narrow band blocking for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
7.6.3E	Narrow band blocking for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.6.3EA	Narrow band blocking for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
7.6.3EB	Narrow band blocking for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.7	Spurious response	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	
7.7_1	Spurious response with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	
7.7A.1	Spurious response for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.7A.2	Spurious response for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E08	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.7A.3	Spurious response for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E10	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_1 Rx, FDD- TDD_4 Rx	
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-13	C207	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA under FS3	E12		
		Rel-13	C208	UE supporting E- UTRA and 2DL CA with TDD inter- band CA under FS3			
7.7A.4	Spurious response for CA (intra-band non-contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.7A.5	Spurious response for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3 UE			
		Rel-12	C123	supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3			
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			
7.7A.8	Spurious response for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
		Rel-12	C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
7.7A.7	Spurious response for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C211	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4			
7.7B	Spurious response for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.7D.1	Spurious response for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	
7.7D.2	Spurious response for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
7.7E	Spurious response for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.7EA	Spurious response for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
7.7EB	Spurious response for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.7F	Spurious response for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
7.7G.1	Spurious response for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
7.7G.2	Spurious response for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
7.8.1	Wide band Intermodulation	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	
7.8.1_1	Wide band Intermodulation with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.8.1A.1	Wide band Intermodulation for CA (intra-band contiguous DL CA and UL CA)	Rel-10	C19	UE supporting E- UTRA and intra-band contiguous DL CA and UL CA	E01	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.8.1A.2	Wide band Intermodulation for CA (intra-band contiguous DL CA without UL CA)	Rel-10	C20	UE supporting E- UTRA and intra-band contiguous DL CA	E11	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.8.1A.3	Wide band Intermodulation for CA (inter-band DL CA without UL CA)	Rel-10	C21	UE supporting E- UTRA and inter-band DL CA	E12	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4	
		Rel-12	C146	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA		Rx	
		Rel-13	C207	UE supporting E- UTRA and 2DL CA with FDD-TDD inter-band CA under FS3			
		Rel-13	C208	UE supporting E- UTRA and 2DL CA with TDD-TDD inter-band CA under FS3			
7.8.1A.4	Wide band Intermodulation for CA (intra-band non- contiguous DL CA without UL CA)	Rel-11	C43	UE supporting E- UTRA and intra-band non- contiguous DL CA but no UL CA	E09	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.8.1A.5	Wideband intermodulation for 3DL CA	Rel-10	C121	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3	E07	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	
		Rel-11	C122	UE supporting E- UTRA and 3DL with CA configuration s in Table 4.1-3			
		Rel-12	C123	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3			
		Rel-13	C268	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			
		Rel-13	C269	UE supporting E- UTRA and 3DL CA with CA configuration s in Table 4.1-3 under FS3			
7.8.1A.7	Wideband intermodulation for 4DL CA	Rel-11	C187	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4	E14	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx, FDD- TDD_2 Rx, FDD- TDD_2 Rx, FDD- TDD_4 Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C211	UE supporting E- UTRA and 4DL with CA configuration s in Table 4.1-4			
		Rel-12	C188	UE supporting E- UTRA and 4DL CA with CA configuration s in Table 4.1-4			
7.8.1A.8	Wideband intermodulation for 5DL CA	Rel-11	C221	UE supporting E- UTRA and 5DL with CA configuration s in Table 4.1-5	E15	FDD _2R x, FDD _4R x, TDD _4R x, FDD _ TDD _2R x, FDD _ TDD _4R x	
		Rel-12	C222	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
		Rel-12	C223	UE supporting E- UTRA and 5DL CA with CA configuration s in Table 4.1-5			
7.8.1B	Wide band intermodulation for UL-MIMO	Rel-10	C07	UE supporting E- UTRA and UL_MIMO	D05	FDD, TDD	
7.8.1D.1	Wide band Intermodulation for ProSe Direct Discovery	Rel-12	C163	UE supporting E- UTRA and ProSe direct discovery	D10	FDD, TDD	

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.8.1D.2	Wide band Intermodulation for ProSe Direct Communication	Rel-12	C162	UE supporting E- UTRA and ProSe direct communicatio n	D10	FDD, TDD	
7.8.1E	Wide band Intermodulation for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.8.1EA	Wide band Intermodulation for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	
7.8.1EB	Wide band Intermodulation for UE category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.8.1F	Wide band Intermodulation for category NB1	Rel-13	C112b	UE supporting category NB1	D12, D13	HD- FDD	
7.8.1G.1	Wide band Intermodulation for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
7.8.1G.2	Wide band Intermodulation for V2X Communication / Simultaneous E- UTRA V2X sidelink and E-UTRA uplink transmissions	Rel-14	C320	UE supporting E- UTRA and V2X Sidelink communicatio n	E16	FDD,T DD	
7.9	Spurious emissions	Rel-8	C113	UE supporting E- UTRA	D15	FDD, TDD	
7.9_1	Spurious emissions with 4 Rx antenna ports	Rel-10	C113a	UE supporting E- UTRA with 4Rx antenna ports	D09	FDD, TDD	
7.9A	Spurious emissions for CA	Rel-10	C120	UE supporting E- UTRA and inter-band DL CA with a DL- only band	E13	FDD_2 Rx, FDD_4 Rx, TDD_2 Rx, TDD_4 Rx	
7.9E	Spurious emissions for UE category 0	Rel-12	C112	UE supporting E- UTRA (UE category 0)	D01	FDD, HD- FDD, TDD	
7.9EA	Spurious emissions for UE category M1	Rel-13	C112a	UE supporting E- UTRA and UE category M1	D01	FDD, HD- FDD, TDD	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
7.9EB	Spurious emissions for UE Category 1bis	Rel-13	C112c	UE supporting E- UTRA and UE category 1bis	D01		FDD, TDD
7.9G.1	Spurious emissions for V2X Communication / Non-concurrent with E-UTRA uplink transmissions	Rel-14	C313	UE supporting V2X Sidelink communicatio n	D14	TDD	
		1	Performa	nce Requireme		T	1
8.2.1.1.1	FDD PDSCH Single Antenna Port Performance	Rel-8	C01	UE supporting E- UTRA FDD	Each ""Test Number"" to be performed once, in a chosen band supporting tested BW	2Rx, 4Rx	Test execution not necessary if 8.2.1.1.1_A.1 or 8.2.1.1.1_A.2 is executed.
8.2.1.1.1 _1	FDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C31	UE supporting E- UTRA FDD (UE categories 1, 2)	Each ""Test Number"" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.1.1.1_A.1 or 8.2.1.1.1_A.2 is executed.
8.2.1.1.1 _A.1	FDD PDSCH Single Antenna Port Performance for CA	Rel-10	C102	UE supporting E-UTRA FDD and intraband contiguous DL CA or inter-band DL CA (UE Category >= 2)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.1.1.1_A.2 or 8.2.1.1.1_A.4 or 8.2.1.1.1_A.5 or 8.13.1.2.2 or 8.13.1.2.3 or 8.13.1.2.4 or 8.13.1.2.5 is executed.
	(2 DL CA)	Rel-11	C103	UE supporting E- UTRA FDD and Downlink Intra-band non- contiguous CA (UE Category >= 2)			
8.2.1.1.1 _A.2	FDD PDSCH Single Antenna Port Performance for CA (3DL CA)	Rel-10	C124	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.1.1.1_A.4 or 8.2.1.1.1_A.5 or 8.13.1.2.3 or 8.13.1.2.4 or 8.13.1.2.5 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C125	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)			
8.2.1.1.1 _A.4	FDD PDSCH Single Antenna Port Performance for CA (4DL CA)	Rel-11	C214	UE supporting E- UTRA FDD and 4DL CA configuration s in Table 4.1-4 (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.1.1.1_A.5 or 8.13.1.2.4 or 8.13.1.2.5 is executed.
8.2.1.1.1 _A.5	FDD PDSCH Single Antenna Port Performance for CA (5DL CA)	Rel-11	C215	UE supporting E-UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.13.1.2.5 is executed.
		Rel-12	C216	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11)			
8.2.1.1.2	FDD PDSCH Single Antenna Port Performance with 1 PRB in presence of MBSFN	Rel-8	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.1	FDD PDSCH Transmit Diversity 2x2	Rel-8	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.1 _1	FDD PDSCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C15	UE supporting E- UTRA FDD (UE category 1)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.1.2.2	FDD PDSCH Transmit Diversity 4x2	Rel-8	C09	UE supporting E- UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.2 _1	FDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.3 _C.1	FDD PDSCH Transmit diversity 2x2 for eICIC (non- MBFSN ABS)	Rel-10	C29	UES supporting E- UTRA FDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.3 _E.1	FDD PDSCH Transmit diversity 2x2 for felCIC (non- MBFSN ABS)	Rel-11	C77	UE supporting E- UTRA FDD and CRS interference handling (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.4	FDD PDSCH Transmit Diversity 2x2 with TM3 Interference Model - - Enhanced Performance Requirement Type A	Rel-11	C44	UE supporting E- UTRA FDD and the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.5	FDD PDSCH Transmit Diversity 2x2 with TM2 Interference Model - - Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E- UTRA FDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.2.6	FDD PDSCH Transmit Diversity 2x2 with TM9 Interference Model Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E- UTRA FDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.3.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C13b	UE supporting E- UTRA FDD (UE categories >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.1.3.1_A.1 or 8.2.1.3.1_A.2 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.1.3.1 _1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 (Release 11 and forward)	Rel-11	C13b	UE supporting E-UTRA FDD (UE categories >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.1.3.1_A.1 or 8.2.1.3.1_A.2 is executed.
8.2.1.3.1 _A.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for	Rel-10	C101	UE supporting E- UTRA FDD and intra- band contiguous DL CA or inter-band DL CA (UE Category >=2)	Refer to 36.521- 1 8.1.2.3	4Rx	If 8.2.1.3.1_A.2 is executed for a CA capability, test execution is not necessary for that CA capability.
	CA (2 DL CA)	Rel-11	C90	Supporting E-UTRA FDD and intraband non-contiguous DL CA (UE Category >= 2)			
8.2.1.3.1 _A.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (3DL CA)	Rel-10	C124	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
		Rel-11	C125	UE supporting E-UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)			
8.2.1.3.1 _A.3	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (4DL CA)	Rel-11	C214	UE supporting E- UTRA FDD and 4DL CA configuration s in Table 4.1-4 (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.1.3.1 _A.4	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (5DL CA)	Rel-11	C215	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
		Rel-12	C216	UE supporting E- UTRA FDD and 5DL CA configuration s in Table 4.1-5 (UE Category 8, >= 11)			
8.2.1.3.1 A_A.1	FDD Soft buffer management test	Rel-10	C104	UE supporting E- UTRA FDD and intra- band contiguous DL CA or inter-band DL CA (UE category 3 and 4)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
A_A.1	for CA (2 DL CA)	Rel-11	C106	UE supporting E- UTRA FDD and Downlink Intra-band non- contiguous CA (UE categories 3 and 4)			
8.2.1.3.1 B	FDD PDSCH Open Loop Spatial Multiplexing 2x2 Enhanced Performance Requirement Type C	Rel-12	C142	UE supporting E- UTRA FDD and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each ""Test Number"" to be performed once, in a chosen band supporting tested BW		
8.2.1.3.1 C	FDD PDSCH Open Loop Spatial Multiplexing 2x2 with TM1 Interference Enhanced Performance Requirement Type C	Rel-12	C142	UE supporting E- UTRA FDD and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each ""Test Number"" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.1.3.2	FDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C13 b	UE supporting E-UTRA FDD (UE categories >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.3.3 _C.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C29	UEs supporting E- UTRA FDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.3.3 _C.2	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C29	UEs supporting E- UTRA FDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.3.3 _E.1	FDD PDSCH Open Loop Spatial Multiplexing 2x2 for felCIC (non-MBSFN ABS)	Rel-11	C77	UE supporting E- UTRA FDD and CRS interference handling and Feature Group Indicator 115 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.4.1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.4.1 _1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.4.1 _E.1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 for felCIC (non- MBSFN ABS)	Rel-11	C77	UE supporting E- UTRA FDD and CRS interference handling and Feature Group Indicator 115 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.4.1 _H	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 for 256QAM in DL	Rel-12	C01h	UE supporting E- UTRA FDD and 256QAM in DL			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.1.4.2	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.1.4.2_A.1 or 8.2.1.4.2_A.2 is executed.
8.2.1.4.2 _1	FDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.1.4.2_A.1 or 8.2.1.4.2_A.2 is executed.
8.2.1.4.2 _A.1	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (2 DL CA)	Rel-10	C102	UE supporting E- UTRA FDD and intra- band contiguous DL CA or inter-band DL CA (UE Category >= 2)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.1.4.2_A.2 or 8.2.1.4.2_A.3 or 8.2.1.4.2_A.4 or 8.13.1.1.1.2 or 8.13.1.1.1.3 or 8.13.1.1.1.5 is executed.
		Rel-11	C103	UE supporting E- UTRA FDD and intra- band non- contiguous DL CA (UE Category >= 2)			
8.2.1.4.2 _A.2	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (3DL CA)	Rel-10	C124	UE supporting E-UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.1.4.2_A.3 or 8.2.1.4.2_A.4 or 8.13.1.1.1.2 or 8.13.1.1.1.3 or 8.13.1.1.1.5 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C125	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)			
8.2.1.4.2 _A.3	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (4DL CA)	Rel-11	C212	UE supporting E- UTRA FDD and 4DL with CA configuration s in Table 4.1-4 (UE Category >=≥ 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.1.4.2_A.4 or 8.13.1.1.1.2 or 8.13.1.1.1.3 or 8.13.1.1.1.4 or 8.13.1.1.1.5 is executed.
8.2.1.4.2 _A.4	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (5DL CA)	Rel-11	TBD	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >=≥ 11)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.13.1.1.1.2 or 8.13.1.1.1.3 or 8.13.1.1.1.4 or 8.13.1.1.1.5 is executed.
		Rel-12	TBD	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= ≥ 11)			
8.2.1.4.2 A	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 - Enhanced Performance Requirement Type C	Rel-12	C142	UE supporting E- UTRA FDD and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		8.2.1.4.2A

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.1.4.3	FDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference model - Enhanced Performance Requirement Type A	Rel-11	C44	UE supporting E- UTRA FDD and the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.4.3 A	FDD PDCSH Closed Loop Multi- Layer Spatial Multiplexing 4X2 for Dual Connectivity	Rel-12	C169	UE supporting E- UTRA FDD and Dual Connectivity (UE Category >= 3)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	2Rx, 4Rx	
8.2.1.4.4	FDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference Model - Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E- UTRA FDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.1.7_ A.1	FDD Carrier aggregation with power imbalance (intra-band contiguous DL CA)	Rel-10	C22	UE supporting E- UTRA FDD and intra- band contiguous DL CA	TBD	2Rx, 4Rx	
8.2.1.9	FDD PDSCH in HST-SFN scenario	Rel-14	C299	UEs supporting E- UTRA FDD and high speed enhancement for measurement			
8.2.2.1	Void				Foob "Too!		Toot
8.2.2.1.1	TDD PDSCH Single Antenna Port Performance	Rel-8	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.2.1.1_A.1 or 8.2.2.1.1_A.2 is executed.
8.2.2.1.1 _1	TDD PDSCH Single Antenna Port Performance (Release 9 and forward)	Rel-9	C54	UE supporting E- UTRA TDD (UE categories 1, 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.2.1.1_A.1 or 8.2.2.1.1_A.2 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.2.1.1 _A.1	TDD PDSCH Single Antenna Port Performance for CA	Rel-10	C110	UE supporting E- UTRA TDD and intra- band contiguous DL CA or interband DL CA (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.2.1.1_A.2 is executed.
	(2DL CA)	Rel-11	C109	UE supporting E- UTRA TDD and Intra- band non- contiguous DL CA(UE Category >= 5)			
8.2.2.1.1 _A.2	TDD PDSCH Single Antenna Port Performance for CA (3DL CA)	Rel-10	C128	UE supporting E- UTRA TDD and 3DL with i CA configuration s in Table 4.1-3 (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
		Rel-11	C129	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)			
8.2.2.1.1 _A.3	TDD PDSCH Single Antenna Port Performance for CA (4DL CA)	Rel-11	C194	CA configuration s in Table 4.1-4 (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.2.1.1 _A.4	TDD PDSCH Single Antenna Port Performance for CA (5DL CA)				Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.2.1.2	TDD PDSCH Single Antenna Port Performance with 1PRB in the presence of MBSFN	Rel-8	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2	Void				Each "Test		
8.2.2.2.1	TDD PDSCH Transmit Diversity 2x2	Rel-8	C02	UE supporting E- UTRA TDD	Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.2.2.1 _1	TDD PDSCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C16	UE supporting E- UTRA TDD (UE category 1)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2.2	TDD PDSCH Transmit Diversity 4x2	Rel-8	C10	UE supporting E- UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2.2 _1	TDD PDSCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2.3 _C.1	TDD PDSCH Transmit diversity 2x2 for eICIC (non- MBFSN ABS)	Rel-10	C30	UEs supporting E- UTRA TDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2.3 _E.1	TDD PDSCH Transmit diversity 2x2 for felCIC (non- MBFSN ABS)	Rel-11	C78	UE supporting E- UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2.4	TDD PDSCH Transmit Diversity 2x2 with TM3 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C45	UE supporting E- UTRA TDD and the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2.5	TDD PDSCH Transmit Diversity 2x2 for eIMTA (when EIMTA- MainConfigServCell -r12 is configured)	Rel-12	C274	UE supporting E- UTRA TDD and eIMTA TDD UL-DL reconfiguratio n			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.2.2.6	TDD PDSCH Transmit Diversity 2x2 with TM2 Interference Model - Enhanced Performance Requirement Type B	Rel-12	C151	UE supporting E- UTRA TDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.2.7	TDD PDSCH Transmit Diversity 2x2 with TM9 Interference Model - Enhanced Performance Requirement Type B	Rel-12	C151	UE supporting E- UTRA TDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.3	Void						
8.2.2.3.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2	Rel-8	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.2.3.1_A.1 or .2 is executed.
8.2.2.3.1 _1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 (Release 11 and forward)	Rel-11	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.2.3.1_A.1 or .2 is executed.
8.2.2.3.1	TDD PDSCH Open Loop Spatial	Rel-10	C110	UE supporting E- UTRA TDD and intra- band contiguous DL CA or interband DL CA (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	If 8.2.2.3.1_A.2 is executed for a CA capability, test execution is not necessary for that CA capability
_A.1	Multiplexing 2x2 for CA (2DL CA)	Rel-11	C109	UE supporting E- UTRA TDD and intra- band non- contiguous DL CA (UE Category >= 5)			
8.2.2.3.1 _A.2	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (3DL CA)	Rel-10	C128	UE supporting E-UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C129	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)			
8.2.2.3.1 _A.3	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA(4DL CA)	Rel-11	C194	UE supporting 4DL CA configuration s in Table 4.1-4.(UE category >=8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.2.3.1 _A.4	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for CA (5DL CA)			January States	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.2.3.1 A_A.1	TDD Soft buffer management for CA	Rel-10	C105	UE supporting E- UTRA TDD and intra- band contiguous DL CA or inter-band DL CA (UE category 3 and 4)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	TBD
	(2 DL CA)	Rel-11	C72	UE supporting E- UTRA TDD and intra- band non- contiguous DL CA (UE category 3 and 4)			
8.2.2.3.1 B	TDD PDSCH Open Loop Spatial Multiplexing 2x2 - Enhanced Performance Requirement Type C	Rel-12	C143	UE supporting E- UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.3.1 C	TDD PDSCH Open Loop Spatial Multiplexing 2x2 with TM1 Interference - Enhanced Performance Requirement Type C	Rel-12	C143	UE supporting E- UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.2.3.2	TDD PDSCH Open Loop Spatial Multiplexing 4x2	Rel-8	C02	UE supporting E-UTRA TDD (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.3.3 _C.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C30	UES supporting E- UTRA TDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.3.3 _C.2	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for eICIC (MBSFN ABS)	Rel-10	C30	UEs supporting E- UTRA TDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.3.3 _E.1	TDD PDSCH Open Loop Spatial Multiplexing 2x2 for felCIC (non-MBSFN ABS)	Rel-11	C78	UE supporting E- UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115 (UE Category >= 2)	TBD		
8.2.2.4	Void			,			
8.2.2.4.1	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2	Rel-8 only	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.4.1 _1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.4.1 _E.1	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 2x2 for felCIC (non- MBSFN ABS)	Rel-11	C78	UE supporting E- UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.2.4.1 _H	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 for 256QAM in DL	Rel-12	C02h	UE supporting E- UTRA TDD and 256QAM in DL			
8.2.2.4.2	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2	Rel-8 only	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.2.4.2_A.1 or 8.2.2.4.2_A.2 is executed.
8.2.2.4.2 _1	TDD PDSCH Closed Loop Single/Multi Layer Spatial Multiplexing 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		Test execution not necessary if 8.2.2.4.2_A.1 or 8.2.2.4.2_A.2 is executed.
8.2.2.4.2 _A.1	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (2DL CA)	Rel-10	C110	UE supporting E- UTRA TDD and intra- band contiguous DL CA or inter-band DL CA (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.2.4.2_A.2 or 8.2.2.4.2_A.3 or 8.13.2.1.1.2 or 8.13.2.1.1.3 or 8.13.2.1.1.5 is executed.
		Rel-11	C109	UE supporting E- UTRA TDD and Intra- band non- contiguous DL CA(UE Category >= 5)			io oxeduca.
8.2.2.4.2 _A.2	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (3DL CA)	Rel-10	C128	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.2.2.4.2_A.3 or 8.13.2.1.1.2 or 8.13.2.1.1.4 or 8.13.2.1.1.5 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C129	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5)			
8.2.2.4.2 _A.3	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (4DL CA)	Rel-11	C194	UE supporting E- UTRA TDD and 4DL CA configuration s in Table 4.1-4 (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.13.2.1.1.2 or 8.13.2.1.1.3 or 8.13.2.1.1.4 or 8.13.2.1.1.5 is executed.
8.2.2.4.2 _A.4	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for CA (5DL CA)				Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.2.4.2 A	TDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 2x2 - Enhanced Performance Requirement Type C	Rel-12	C143	UE supporting E- UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.4.3	TDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C45	UE supporting E- UTRA TDD and the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.4.4	TDD PDSCH Closed Loop Multi- Layer Spatial Multiplexing 4x2 for Dual Connectivity	Rel-12	C170	UE supporting E- UTRA TDD and Dual Connectivity (UE Category >= 5)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	2Rx, 4Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.2.4.5	TDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x2 with TM4 Interference Model - Enhanced Performance Requirement Type B	Rel-12	C151	UE supporting E-UTRA TDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.2.7_ A.1	TDD Carrier aggregation with power imbalance (intra-band contiguous DL CA)	Rel-10	C24	UE supporting E- UTRA TDD and intra- band contiguous DL CA	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.2.9	TDD PDSCH in HST-SFN scenario	Rel-14	C300	UEs supporting E- UTRA TDD and high speed enhancement for measurement			
8.2.3.1.1.	TDD FDD CA PDSCH Single Antenna Port Performance for FDD Pcell (2DL CA)	Rel-12	C154	UE supporting E- UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.1.1. 2	TDD FDD CA PDSCH Single Antenna Port Performance for FDD PCell (3DL CA)	Rel-12	C133	UE supporting E- UTRA FDD and TDD and 3DL CA with FDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.1.1.	TDD FDD CA PDSCH Single Antenna Port Performance for FDD PCell (4DL CA)	Rel-12	C133a	UE supporting E- UTRA FDD and TDD and 4DL CA with FDD as PCell (UE Category >= 8)	TBD		
8.2.3.1.1. 4	TDD FDD CA PDSCH Single Antenna Port Performance for FDD PCell (5DL CA)	Rel-12	C133b	UE supporting E- UTRA FDD and TDD and 5DL CA with FDD as PCell (UE Category8, and Category 11 and onwards)	Refer to 36.521- 1 8.1.2.3		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.3.1.2. 1	TDD FDD CA PDSCH Single Antenna Port Performance for TDD PCell(2DL CA)	Rel-12	C155	UE supporting E- UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.1.2. 2	TDD FDD CA PDSCH Single Antenna Port Performance for TDD PCell (3DL CA)	Rel-12	C135	UE supporting E- UTRA FDD and TDD and 3DL CA with TDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.1.2. 3	TDD FDD CA PDSCH Single Antenna Port Performance for TDD PCell (4DL CA)	Rel-12	C135a	UE supporting E- UTRA FDD and TDD and 4DL CA with TDD as PCell (UE Category >= 8)	TBD		
8.2.3.1.2. 4	TDD FDD CA PDSCH Single Antenna Port Performance for TDD PCell (5DL CA)	Rel-12	C135b	UE supporting E- UTRA FDD and TDD and 5DL CA with TDD as PCell (UE Category 8, and Category11 and onwards)	TBD		
8.2.3.2.1.	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for FDD PCell (2DL CA)	Rel-12	C154	Supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.2.1. 2	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for FDD PCell (3DL CA)	Rel-12	C133	UE supporting E- UTRA FDD and TDD and 3DL CA with FDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.2.1. 3	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for FDD PCell (4DL CA)	Rel-12	C133a	UE supporting E- UTRA FDD and TDD and 4DL CA with FDD as PCell (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.3.2.1. 4	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for FDD PCell (5DL CA)	Rel-12	C133b	UE supporting E- UTRA FDD and TDD and 5DL CA with FDD as PCell (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3		
8.2.3.2.1 A	TDD FDD CA PDSCH Soft buffer management test for FDD PCell (2DL CA)	Rel-12	C136	supporting E- UTRA FDD and TDD and 2DL CA with FDD as PCell (UE categories 3 and 4)	TBD	2Rx, 4Rx	
8.2.3.2.2. 1	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for TDD PCell (2DL CA)	Rel-12	C155	UE supporting E- UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.2.2. 2	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for TDD PCell (3DL CA)	Rel-12	C135	UE supporting E- UTRA FDD and TDD and 3DL CA with TDD PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.2.2. 3	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for TDD PCell(4DL CA)	Rel-12	C135a	UE supporting E- UTRA FDD and TDD and 4DL CA with TDD as PCell (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3		
8.2.3.2.2. 4	TDD FDD CA PDSCH Open Loop Spatial Multiplexing 2x2 for TDD PCell(5DL CA)	Rel-12	C135b	UE supporting E- UTRA FDD and TDD and 5DL CA with TDD as PCell (UE Category 8, and Category11 and onwards)	Refer to 36.521- 1 8.1.2.3		
8.2.3.2.2 A	TDD FDD CA PDSCH Soft buffer management test for TDD PCell (2DL CA)	Rel-12	C137	UE supporting E- UTRA FDD and TDD and 2DL CA with TDD PCell (UE categories 3 and 4)	TBD	2Rx, 4Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.3.3.1.	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for FDD PCell (2DL CA)	Rel-12	C154	UE supporting E- UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.3.1.	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for FDD PCell (3DL CA)	Rel-12	C133	UE supporting E- UTRA FDD and TDD and 3DL CA with FDD as PCell (UE Category >= 5)	TBD		
8.2.3.3.1.	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for FDD PCell (4DL CA)	Rel-12	C133a	UE supporting E- UTRA FDD and TDD and 4DL CA with FDD as PCell (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.3.3.1. 4	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for FDD PCell (5DL CA)	Rel-12	C133b	UE supporting E- UTRA FDD and TDD and 5DL CA with FDD as PCell (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.3.3.2. 1	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for TDD PCell (2DL CA)	Rel-12	C155	UE supporting E- UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category >=5)	TBD	2Rx, 4Rx	
8.2.3.3.2. 2	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for TDD PCell (3DL CA)	Rel-12	C135	UE supporting E- UTRA FDD and TDD and 3DL CA with TDD as PCell (UE Category >= 5)	TBD	2Rx, 4Rx	
8.2.3.3.2. 3	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for TDD PCell (4DL CA)	Rel-12	C135a	UE supporting E- UTRA FDD and TDD and 4DL CA with TDD as PCell (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.2.3.3.2. 4	TDD FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 for TDD PCell (5DL CA)	Rel-12	C135b	UE supporting E- UTRA FDD and TDD and 5DL CA with TDD as PCell (UE Category 8, and Category11 and onwards)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	
8.2.4.1.1	LAA PDSCH CA Closed Loop Spatial Multiplexing Performance-4 Tx Antenna port with FDD as Pcell	Rel-13	C209	UE supporting E- UTRA FDD and downlink LAA with FDD as Pcell	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.2.4.1.2	LAA PDSCH CA Closed Loop Spatial Multiplexing Performance-4 Tx Antenna port with TDD as Pcell	Rel-13	C210	UE supporting E- UTRA TDD and downlink LAA	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1	Void				F 1 "= 1		
8.3.1.1.1 _D	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E- UTRA FDD and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.1.1 _H	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO for 256QAM in DL	Rel-12	C25h	UE supporting E- UTRA FDD and eDL- MIMO and 256QAM in DL and Feature Group Indicator 103			
8.3.1.1.2 _D	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with a simultaneous transmission for eDL-MIMO	Rel-10	C25	UE supporting E- UTRA FDD and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.1.3	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C40	UE supporting E- UTRA FDD and Feature Group Indictor 103 and supporting the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.3.1.1.4	FDD PDSCH Closed Loop Single- layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type B	Rel-12	C262	UE supporting E- UTRA FDD and the enhanced performance requirements type B for LTE and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.1.6	FDD PDSCH Closed Loop Single- layer Spatial Multiplexing on antenna ports 7 or 8 with TM3 interference model - Enhanced Performance Requirement Type B	Rel-12	C150	UE supporting E- UTRA FDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.1.7	FDD PDSCH Closed Loop Single- layer Spatial Multiplexing on antenna ports 7 or 8 with TM10 serving cell configuration and TM9 interference model - Enhanced Performance Requirement Type B	Rel-12	C175	UE supporting E- UTRA FDD, enhanced performance requirements type B and PDSCH Transmission mode 10 for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.1.9	FDD PDSCH Single-layer Spatial Multiplexing for FD- MIMO	Rel-13	C323	UE supporting E- UTRA FDD and Feature Group Indicator 103 and dmrs- Enhancement s-r13			
8.3.1.2.1 _D	FDD PDSCH Dual- layer Spatial Multiplexing for eDL-MIMO	Rel-10	C25	UE supporting E- UTRA FDD and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.2.1 _D_1	FDD PDSCH Dual- layer Spatial Multiplexing for eDL-MIMO (Release 11 and forward)	Rel-11	C25	UE supporting E- UTRA FDD and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.3.1.2.2	FDD PDSCH Dual- layer Spatial Multiplexing - Enhanced Performance Requirement Type C	Rel-12	C144	UE supporting E- UTRA FDD and Feature Group Indicator 103 and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.3.1 _F	FDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and single NZP CSI-RS resource for CoMP	Rel-11	C50	UE supporting E- UTRA FDD and Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.3.2 _F	FDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and multiple NZP CSI- RS resources for CoMP	Rel-11	C52	UE supporting E- UTRA FDD and Maximum CSI processes of Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.1.3.3 _F	FDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Different Cell ID, Colliding CRS and single NZP CSI-RS resource for CoMP	Rel-11	C117	UE supporting E- UTRA FDD and Maximum CSI processes of One, Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.3.2.1.1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 8 and forward)	Rel-8	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.1 _1	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 5 (Release 9 and forward)	Rel-9	C16	UE supporting E- UTRA TDD (UE category 1)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.2	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 without a simultaneous transmission	Rel-9 only	C34	UE supporting E- UTRA TDD and supporting enhanced dual layer TDD.	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
		Rel-10	C02	UE supporting E- UTRA TDD.	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.2 _D	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO	Rel-10	C26	UE supporting E- UTRA TDD and Feature Group Indicator 104	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.2 _H	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 without a simultaneous transmission for eDL-MIMO for 256QAM in DL	Rel-12	C26h	UE supporting E- UTRA TDD and 256QAM in DL and Feature Group Indicator 104			
8.3.2.1.3	TDD PDSCH Single-layer Spatial Multiplexing on antenna port 7 or 8 with a simultaneous transmission	Rel-9 only	C34	UE supporting E- UTRA TDD and supporting enhanced dual layer TDD.	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
		Rel-10	C02	UE supporting E- UTRA TDD.	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.3 _D	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with a simultaneous transmission for eDL-MIMO	Rel-10	C26	UE supporting E- UTRA TDD and Feature Group Indicator 104	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.3.2.1.4	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A	Rel-11	C41	UE supporting E- UTRA TDD and Feature Group Indictor 103 and supporting the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.5	TDD PDSCH Closed Loop Single- layer Spatial Multiplexing on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type B	Rel-12	C263	UE supporting E- UTRA TDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.7	TDD PDSCH Closed Loop Single- layer Spatial Multiplexing on antenna ports 7 or 8 with TM3 interference model - Enhanced Performance Requirement Type B	Rel-12	C151	UE supporting E- UTRA TDD and the enhanced performance requirements type B for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.8	TDD PDSCH Closed Loop Single- layer Spatial Multiplexing on antenna ports 7 or 8 with TM10 serving cell configuration and TM9 interference model - Enhanced Performance Requirement Type B	Rel-12	C176	UE supporting E-UTRA TDD, enhanced performance requirements type B and PDSCH Transmission mode 10 for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.1.1	TDD PDSCH Single-layer Spatial Multiplexing for FD- MIMO	Rel-13	C324	UE supporting E- UTRA TDD and Feature Group Indicator 103 and dmrs- Enhancement s-r13			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.3.2.2.1	TDD PDSCH Dual- layer Spatial Multiplexing	Rel-9 only	C34	UE supporting E- UTRA TDD and supporting enhanced dual layer TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
		Rel-10	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.2.1 _D	TDD PDSCH Dual- layer Spatial Multiplexing for eDL-MIMO	Rel-10	C25a	UE supporting E- UTRA TDD and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.2.1 _D_1	TDD PDSCH Dual- layer Spatial Multiplexing for eDL-MIMO (Release 11 and forward)	Rel-11	C25a	UE supporting E- UTRA TDD and Feature Group Indicator 103	TBD		
8.3.2.2.2	TDD PDSCH Dual- layer Spatial Multiplexing - Enhanced Performance Requirement Type C	Rel-12	C143	UE supporting E- UTRA TDD and Enhanced Performance Requirement TypeC for LTE (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.4.1 _F	TDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and single NZP CSI-RS resource for CoMP	Rel-11	C51	UE supporting E- UTRA TDD and Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.3.2.4.2 _F	TDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Same Cell ID and multiple NZP CSI- RS resources for CoMP	Rel-11	C53	UE supporting E- UTRA TDD and Maximum CSI processes of Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.2.4.3 _F	TDD PDSCH Performance with DCI format 2D, non Quasi Co-located Antenna Ports, Different Cell ID, Colliding CRS and single NZP CSI-RS resource for CoMP	Rel-11	C118	UE supporting E- UTRA TDD and Maximum CSI processes of One, Three or Four on a component carrier within a band with PDSCH transmission mode 10 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.3.1.1	LAA Dual-Layer Spatial Multiplexing with DM-RS with FDD as PCell	Rel-13	C264	UE supporting E- UTRA FDD and downlink LAA with FDD as Pcell and TM9 on LAA cells	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.3.3.1.2	LAA Dual-Layer Spatial Multiplexing with DM-RS with TDD as Pcell	Rel-13	C265	UE supporting E- UTRA TDD and downlink LAA and TM9 on LAA cells	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.1	FDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2	Void			ļ <u>.</u>			
8.4.1.2.1	FDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E- UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.4.1.2.1 _1	FDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2.2	FDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2.3 _E.1	FDD PCFICH/PDCCH Transmit Diversity 2x2 for felCIC (non- MBSFN ABS)	Rel-11	C77	UE supporting E- UTRA FDD and CRS interference handling and Feature Group Indicator 115 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2.3 _E.2	FDD PCFICH/PDCCH Transmit Diversity 2x2 for felCIC (MBSFN ABS)	Rel-11	C77	UE supporting E- UTRA FDD and CRS interference handling and Feature Group Indicator 115 (UE)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2.2 _1	FDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2.3 _C.1	FDD PCFICH/PDCCH Transmit Diversity 2x2 for eICIC (non- MBSFN ABS)	Rel-10	C29	UE supporting E- UTRA FDD and Feature Group Indicator 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2.3 _C.2	FDD PCFICH/PDCCH Transmit Diversity 2x2 for eICIC (MBSFN ABS)	Rel-10	C29	UES supporting E- UTRA FDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.1.2.5	FDD Enhanced Downlink Control Channel Performance Type A for PCFICH/PDCCH, 2 Tx Antenna Port under Asynchronous Network	Rel-13	C285	E-UTRA FDD UEs supporting Enhanced downlink control channel performance requirements type A			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.4.1.2.6	FDD Enhanced Downlink Control Channel Performance Type A for PCFICH/PDCCH, 2 Tx Antenna Port with Non-Colliding CRS Dominant Interferer	Rel-13	C285	E-UTRA FDD UES supporting Enhanced downlink control channel performance requirements type A			
8.4.1.2.7	FDD Enhanced Downlink Control Channel Performance Type B for PCFICH/PDCCH, 2 Tx Antenna Port with Colliding CRS Dominant Interferer	Rel-13	C286	E-UTRA FDD UEs supporting Enhanced downlink control channel performance requirements type B			
8.4.1.2.8	FDD Enhanced Downlink Control Channel Performance Type B for PCFICH/PDCCH, 2 Tx Antenna Port with Non-Colliding CRS Dominant Interferer	Rel-13	C286	E-UTRA FDD UES supporting Enhanced downlink control channel performance requirements type B			
8.4.2.1	TDD PCFICH/PDCCH Single-antenna Port Performance	Rel-8	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2	Void						
8.4.2.2.1	TDD PCFICH/PDCCH Transmit Diversity 2x2	Rel-8 only	C10	UE supporting E- UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2.1 _1	TDD PCFICH/PDCCH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2.2	TDD PCFICH/PDCCH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2.2 _1	TDD PCFICH/PDCCH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.4.2.2.3 _C.1	TDD PCFICH/PDCCH Transmit Diversity 2x2 for eICIC (non-MBSFN ABS)	Rel-10	C30	UEs supporting E- UTRA TDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2.3 _C.2	TDD PCFICH/PDCCH Transmit Diversity 2x2 for elCIC (MBSFN ABS)	Rel-10	C30	UEs supporting E- UTRA TDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2.3 _E.1	TDD PCFICH/PDCCH Transmit Diversity 2x2 for felCIC (non- MBSFN ABS)	Rel-11	C78	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115(UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2.3 _E.2	TDD PCFICH/PDCCH Transmit Diversity 2x2 for felCIC (MBSFN ABS)	Rel-11	C78	UE supporting E- UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115(UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.2.2.5	TDD Enhanced Downlink Control Channel Performance Type A for PCFICH/PDCCH, 2 Tx Antenna Port with Colliding CRS Dominant Interferer	Rel-13	C287	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type A			
8.4.2.2.6	DD Enhanced Downlink Control Channel Performance Type A for PCFICH/PDCCH, 2 Tx Antenna Port with Non-Colliding CRS Dominant Interferer	Rel-13	C287	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type A			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.4.2.2.7	TDD Enhanced Downlink Control Channel Performance Type B for PCFICH/PDCCH, 2 Tx Antenna Port with Colliding CRS Dominant Interferer	Rel-13	C288	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type B			
8.4.2.2.8	TDD Enhanced Downlink Control Channel Performance Type B for PCFICH/PDCCH, 2 Tx Antenna Port with Non-Colliding CRS Dominant Interferer	Rel-13	C288	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type B			
8.4.3.1.1	LAA PCFICH/PDCCH Transmit Diversity 2x2 with FDD as Pcell	Rel-13	C209	UE supporting E- UTRA FDD and downlink LAA with FDD as Pcell	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.4.3.1.2	LAA PCFICH/PDCCH Transmit Diversity 2x2 with TDD as Pcell	Rel-13	C217	UE supporting E- UTRA TDD and downlink LAA	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.1.1	FDD PHICH Single- antenna Port Performance	Rel-8	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.1.2	Void						
8.5.1.2.1	FDD PHICH Transmit Diversity 2x2	Rel-8 only	C09	UE supporting E- UTRA FDD and operating bands supporting 1,4 MHz Bandwidth	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.1.2.1 _1	FDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.1.2.2	FDD PHICH Transmit Diversity 4x2	Rel-8 only	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.5.1.2.2 _1	FDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C01	UE supporting E- UTRA FDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.1.2.3 _C.1	FDD PHICH Transmit Diversity 2x2 for eICIC (non- MBSFN ABS)	Rel-10	C29	UE supporting E- UTRA FDD and Feature Group Indicator 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.1.2.3 _E.1	FDD PHICH Transmit Diversity 2x2 for felCIC (non- MBSFN ABS)	Rel-11	C77	UE supporting E- UTRA FDD and CRS interference handling and Feature Group Indicator 115 (UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.1.2.5	FDD Enhanced Downlink Control Channel Performance Requirement Type A for PHICH- 2 Tx Antenna Ports under Asynchronous Network	Rel-13	C285	E-UTRA FDD UES supporting Enhanced downlink control channel performance requirements type A			
8.5.1.2.6	FDD Enhanced Downlink Control Channel Performance Requirement Type A for PHICH - 2 Tx Antenna Ports with Non-Colliding CRS Dominant Interferer	Rel-13	C285	E-UTRA FDD UEs supporting Enhanced downlink control channel performance requirements type A			
8.5.1.2.7	FDD Enhanced Downlink Control Channel Performance Requirement Type B for PHICH - 2 Tx Antenna Ports with Colliding CRS Dominant Interferer	Rel-13	C286	E-UTRA FDD UEs supporting Enhanced downlink control channel performance requirements type B			
8.5.1.2.8	FDD Enhanced Downlink Control Channel Performance Requirement Type B for PHICH - 2 Tx Antenna Ports with Non-Colliding CRS Dominant Interferer	Rel-13	C286	E-UTRA FDD UES supporting Enhanced downlink control channel performance requirements type B			

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.5.2.1 8.5.2.2	TDD PHICH Single- antenna Port Performance	Rel-8	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
0.5.2.2	Void			UE	Each "Test		
8.5.2.2.1	TDD PHICH Transmit Diversity 2x2	Rel-8 only	C10	supporting E- UTRA TDD and operating bands supporting 1,4 MHz Bandwidth	Number" to be performed once, in a chosen band supporting tested BW		
8.5.2.2.1 _1	TDD PHICH Transmit Diversity 2x2 (Release 9 and forward)	Rel-9	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.2.2.2	TDD PHICH Transmit Diversity 4x2	Rel-8 only	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.2.2.2 _1	TDD PHICH Transmit Diversity 4x2 (Release 9 and forward)	Rel-9	C02	UE supporting E- UTRA TDD	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.2.2.3 _C.1	TDD PHICH Transmit Diversity 2x2 for eICIC (non- MBSFN ABS)	Rel-10	C30	UEs supporting E- UTRA TDD and Feature Group Indictor 115	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.2.2.3 _E.1	TDD PHICH Transmit Diversity 2x2 for felCIC (non- MBSFN ABS)	Rel-11	C78	UE supporting E- UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115(UE Category >= 2)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.5.2.2.5	TDD Enhanced Downlink Control Channel Performance Requirement Type A for PHICH- 2 Tx Antenna Ports with Colliding CRS Dominant Interfere	Rel-13	C287	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type A			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.5.2.2.6	TDD Enhanced Downlink Control Channel Performance Requirement Type A for PHICH - 2 Tx Antenna Ports with Non-Colliding CRS Dominant Interferer	Rel-13	C287	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type A			
8.5.2.2.7	TDD Enhanced Downlink Control Channel Performance Requirement Type B for PHICH- 2 Tx Antenna Ports with Colliding CRS Dominant Interferer	Rel-13	C288	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type B			
8.5.2.2.8	TDD Enhanced Downlink Control Channel Performance Requirement Type B for PHICH- 2 Tx Antenna Ports with Non-Colliding CRS Dominant Interferer	Rel-13	C288	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type B			
8.7.1.1	FDD sustained data rate performance (Rel-9 and forward)	Rel-9	C76	UE supporting E- UTRA FDD and not supporting 256QAM in DL (UE categories from1 to 4)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.1.1_A.1 or 8.7.3.1 is executed.
8.7.1.1_1	FDD sustained data rate performance (Rel-10 and forward)	Rel-10	C42	UE supporting E- UTRA FDD and not supporting 256QAM in DL (UE categories 6, 7)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.1.1_A.10 r 8.7.3.1 is executed.
8.7.1.1_2	FDD sustained data rate performance for UE category 1bis	Rel-13	C145d	UE supporting E- UTRA FDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
$\begin{bmatrix} 8.7.1.1 \\ 4.1 \end{bmatrix}$ r	FDD Sustained data rate performance for	Rel-10	C107	UE supporting E-UTRA FDD and intraband contiguous DL CA or inter-band DL CA and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.7.1.1_A.2 is executed.
	CA (2 DL CA)	Rel-11	C93	UE supporting E- UTRA FDD and intra- band non- contiguous DL CA and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)			
8.7.1.1_ A.2	FDD Sustained data rate performance for CA (3DL CA)	Rel-10	C126	UÉ supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 and not supporting 256QAM in DL (UE category 9, 10, 11 and 12)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.7.1.1_A.4 is executed
		Rel-10	C126a	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 and supporting at most 40MHz aggregated bandwidth and not supporting 256QAM in DL (UE category 6 and 7)	Refer to 36.521- 1 8.1.2.3		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C127	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 and not supporting 256QAM in DL (UE category 9, 10, 11 and 12)	TBD		
		Rel-11	C127a	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 and supporting at most 40MHz aggregated bandwidth and not supporting 256QAM in DL (UE category 6 and 7)	TBD		
8.7.1.1_ A.4	FDD Sustained data rate performance for CA (4DL CA)	Rel-11	C189	UE supporting E- UTRA FDD and 4DL with CA configuration s in Table 4.1-4 and not supporting 256QAM in DL (UE category 11 and 12)		2Rx, 4Rx	Test execution not necessary if 8.7.1.1_A.5 is executed.
		Rel-11	C189a	UE supporting E- UTRA FDD and 4DL with CA configuration s in Table 4.1-4 and supporting at most 60MHz aggregated bandwidth and not supporting 256QAM in DL (UE category 9 and 10)			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.1.1_ A.5	FDD Sustained data rate performance for CA (5DL CA)	Rel-11	C266	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 and not supporting 256QAM in DL (UE DL category 11,12)		2Rx, 4Rx	
		Rel-12	C267	UE supporting E- UTRA FDD and 5DL CA configuration s in Table 4.1-5 and not supporting 256QAM in DL (UE DL category 11,12,15)			
- 8.7.1.1_ H.1	FDD sustained data rate performance (Single Carrier) for 256QAM in DL	Rel-12	C42h	UE supporting E- UTRA FDD and 256QAM and UE DL category 13			Test execution not necessary if 8.7.1.1_H.2 is executed
8.7.1.1_ H.2	FDD Sustained data rate performance for CA (2DL CA) for 256QAM in DL	Rel-12	C107h	UE supporting E- UTRA FDD and 2DL CA and 256QAM in DL (UE DL category 11, 12 and 13)		2Rx, 4Rx	Test execution not necessary if 8.7.1.1_H.3 is executed
8.7.1.1_ H.3	FDD Sustained data rate performance for CA (3DL CA) for 256QAM in DL	Rel-12	C126h	UE supporting E- UTRA FDD and 3DL CA ,and supporting 256QAM in DL (UE DL category 11, 12 and 15)		2Rx, 4Rx	Test execution not necessary if 8.7.1.1_H.4 is executed
		Rel-12	C126ha	UE supporting E- UTRA FDD and 3DL CA, and supporting 256QAM in DL and supporting at most 40MHz aggregated bandwidth (UE DL category 13)			Test execution not necessary if 8.7.1.1_H.4 is executed

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.1.1_ H.4	FDD Sustained data rate performance for CA (4DL CA) for 256QAM in DL	Rel-13	C189h	UE supporting E- UTRA FDD and 4DL with CA configuration s in Table 4.1-4 and supporting 256QAM in DL			Test execution not necessary if 8.7.1.1_H.5 is executed.
8.7.1.1_ H.5	FDD Sustained data rate performance for CA (5DL CA) for 256QAM in DL	Rel-13	C266h	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 and supporting 256QAM in DL			
8.7.2.1	TDD sustained data rate performance (Rel-9 and forward)	Rel-9	C111	UE supporting E- UTRA TDD and not supporting 256QAM in DL (UE categories from 1 to 4)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.2.1_A.1 or 8.7.4.1 is executed.
8.7.2.1_1	TDD sustained data rate performance (Rel-10 and forward)	Rel-10	C73	UE supporting E- UTRA TDD and not supporting 256QAM in DL (UE category 6 and 7)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		It is not necessary for CA UEs and EPDCCH UEs to be tested in this test if 8.7.2.1_A.10 r 8.7.4.1 is executed.
8.7.2.1_2	TDD sustained data rate performance for UE category 1bis	Rel-13	C156f	UE supporting E- UTRA TDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.7.2.1_ A.1	TDD sustained data rate performance for CA (2DL CA)	Rel-10	C74	UE supporting E- UTRA TDD and intra- band contiguous DL CA or inter-band DL CA and not supporting 256QAM in DL (UE category 6, 7, 9 and 10)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.7.2.1_A.2 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C75	UE supporting E- UTRA TDD and intra- band non- contiguous DL CA and not supporting 256QAM in DL (UE category 6, 7, 9 and 10)			
8.7.2.1_ A.2	TDD Sustained data rate performance for CA (3DL CA)	Rel-10	C130	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 and not supporting 256QAM in DL (UE category 9, 10, 11 and 12)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.7.2.1_A.3 is executed.
		Rel-11	C131	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 and not supporting 256QAM in DL (UE category 9, 10, 11 and 12)			
8.7.2.1_ A.3	TDD Sustained data rate performance for CA (4DL CA)	Rel-11	C213	UE supporting E- UTRA TDD and 4DL CA configuration s in Table 4.1-3 (UE DL category 11, 12 and 15)	Refer to 36.521- 1 8.1.2.3	2Rx, 4Rx	Test execution not necessary if 8.7.2.1_A.4 is executed.
8.7.2.1_ H.1	TDD sustained data rate performance (Single Carrier) for 256QAM in DL	Rel-12	C73h	UE supporting E- UTRA TDD and 256QAM in DL and UE DL category 13			Test execution not necessary if 8.7.2.1_H.2 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.2.1_ H.2	TDD sustained data rate performance for CA (2DL CA) for 256QAM in DL	Rel-12	C74h	UE supporting E- UTRA TDD and 2DL CA, and supporting 256QAM in DL (UE DL category 11, 12 and 13)		2Rx, 4Rx	Test execution not necessary if 8.7.2.1_H.3 is executed.
8.7.2.1_ H.3	TDD Sustained data rate performance for CA (3DL CA) for 256QAM in DL	Rel-12	C130h	UE supporting E- UTRA TDD and 3DL CA and supporting 256QAM in DL (UE DL Category 11, 12 and 15)		2Rx, 4Rx	Test execution not necessary if 8.7.2.1_H.4 is executed.
8.7.3.1	FDD sustained data rate performance for EPDCCH scheduling	Rel-11	C55	UE supporting E- UTRA FDD and EPDCCH	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.7.4.1	TDD sustained data rate performance for EPDCCH scheduling	Rel-11	C56	UE supporting E- UTRA TDD and EPDCCH	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.7.5.1.1	TDD FDD CA Sustained data rate performance for FDD PCell (2DL CA)	Rel-12	C138	UE supporting E- UTRA FDD and TDD and 2DL CA with FDD as PCell and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	TBD	2Rx, 4Rx	Test execution not necessary if 8.7.5.1.2 is executed.
8.7.5.1.2	TDD FDD CA Sustained data rate performance for FDD PCell (3DL CA)	Rel-12	C139	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and not supporting 256QAM in DL (UE category 9, 10, 11 and 12)	TBD	2Rx, 4Rx	Test execution not necessary if 8.7.5.1.3 is executed.

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.5.1.3	TDD FDD CA Sustained data rate performance for FDD PCell (4DL CA)	Rel-12	C139a	UE supporting E- UTRA FDD and TDD and 4DL CA with FDD as PCell and not supporting 256QAM in DL (UE category 11 and 12)	TBD	2Rx, 4Rx	Test execution not necessary if 8.7.5.1.4 is executed.
8.7.5.1.4	TDD FDD CA Sustained data rate performance for FDD PCell (5DL CA)	Rel-12	C139b	UE supporting E- UTRA FDD and TDD and 5DL CA with FDD as PCell and not supporting 256QAM in DL (UE DL category 15)	TBD	2Rx, 4Rx	
8.7.5.1_ H.1	TDD FDD CA Sustained data rate performance for FDD PCell (2DL CA) for 256QAM in DL	Rel-12	C138h	UE supporting E- UTRA FDD and TDD and 2DL TDD- FDD CA with FDD as PCell and supporting 256QAM in DL (UE DL category 11,		2Rx, 4Rx	Test execution not necessary if 8.7.5.1_H.2 is executed.
8.7.5.1_ H.2	TDD FDD CA Sustained data rate performance for FDD PCell (3DL CA) for 256QAM in DL	Rel-12	C139h	12 and 13) UE supporting E- UTRA FDD and TDD and 3DL TDD- FDD CA with FDD as PCell and supporting 256QAM in DL (UE DL Category 11, 12 and 15)		2Rx, 4Rx	Test execution not necessary if 8.7.5.1_H.3 is executed.
8.7.5.1_ H.3	TDD FDD CA Sustained data rate performance for FDD PCell (4DL CA) for 256QAM in DL	Rel-12	C139ha	UE supporting E- UTRA FDD and TDD and 4DL TDD- FDD CA with FDD as PCell and supporting 256QAM in DL			Test execution not necessary if 8.7.5.1_H.4 is executed.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.5.1_ H.4	TDD FDD CA Sustained data rate performance for FDD PCell (5DL CA) for 256QAM in DL	Rel-12	C139hb	UE supporting E- UTRA FDD and TDD and 5DL TDD- FDD CA with FDD as PCell and supporting 256QAM in DL			
8.7.5.2.1	TDD FDD CA Sustained data rate performance for TDD PCell (2DL CA)	Rel-12	C140	UE supporting E- UTRA FDD and TDD and 2DL CA with TDD as PCell and not supporting 256QAM in DL (UE category 3, 4, 6, 7, 9 and 10)	TBD	2Rx, 4Rx	Test execution not necessary if 8.7.5.2.2 is executed.
8.7.5.2.2	TDD FDD CA Sustained data rate performance for TDD PCell (3DL CA)	Rel-12	C141	UE supporting E- UTRA FDD and TDD and 3DL CA with TDD as PCell and not supporting 256QAM in DL (UE category 9, 10, 11 and 12)	TBD	2Rx, 4Rx	Test execution not necessary if 8.7.5.2.3 is executed.
8.7.5.2.3	TDD FDD CA Sustained data rate performance for TDD PCell (4DL CA)	Rel-12	C141a	UE supporting E- UTRA FDD and TDD and 4DL CA with TDD as PCell and not supporting 256QAM in DL (UE category 11 and 12)	TBD	2Rx, 4Rx	Test execution not necessary if 8.7.5.2.4 is executed.
8.7.5.2.4	TDD FDD CA Sustained data rate performance for TDD PCell (5DL CA)	Rel-12	C141b	UE supporting E- UTRA FDD and TDD and 5DL CA with TDD as PCell and not supporting 256QAM in DL (UE category 15)	TBD	2Rx, 4Rx	

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.5.2_ H.1	TDD FDD CA Sustained data rate performance for TDD PCell (2DL CA) for 256QAM in DL	Rel-12	C140h	UE supporting E- UTRA FDD and TDD and 2DL TDD- FDD CA with TDD as PCell and supporting 256QAM in DL (UE DL Category 11, 12 and 13)		2Rx, 4Rx	Test execution not necessary if 8.7.5.2_H.2 is executed.
8.7.5.2_ H.2	TDD FDD CA Sustained data rate performance for TDD PCell (3DL CA) for 256QAM in DL	Rel-12	C141h	UE supporting E- UTRA FDD and TDD and 3DL TDD- FDD CA with TDD as PCell and supporting 256QAM in DL (UE DL Category 11, 12 and 15)		2Rx, 4Rx	Test execution not necessary if 8.7.5.2_H.3 is executed.
8.7.6.1	FDD sustained data rate performance for Dual Connectivity 64QAM	Rel-12	C171	UE supporting E- UTRA FDD and Dual Connectivity and not supporting 256QAM in DL (UE Category 3, 4, 6, 7, 9, and 10)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	2Rx, 4Rx	
8.7.6.2	FDD sustained data rate performance for Dual Connectivity 256QAM	Rel-12	C173	UE supporting E- UTRA FDD and Dual Connectivity and supporting 256QAM in DL	Each "Test Number" to be performed once, in a chosen band supporting tested BW	2Rx, 4Rx	
8.7.7.1	TDD sustained data rate performance for Dual Connectivity 64QAM	Rel-12	C172	UE supporting E- UTRA TDD and Dual Connectivity and not supporting 256QAM in DL (UE Category 6, 7, 9, and 10)	Each "Test Number" to be performed once, in a chosen band supporting tested BW	2Rx, 4Rx	

Clause	Title	Release	Applic	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.7.2	TDD sustained data rate performance for Dual Connectivity 256QAM	Rel-12	C174	UE supporting E- UTRA TDD and Dual Connectivity and supporting 256QAM in DL	Each "Test Number" to be performed once, in a chosen band supporting tested BW	2Rx, 4Rx	
8.7.9.2	FDD sustained data rate performance for 4 layer MIMO (single carrier)	Rel-10	C226	UE supporting E-UTRA FDD with 4Rx antenna ports and 4-layer spatial multiplexing (UE Category 6 and 7 and UE DL category 13)	One "Test Number" to be performed. The selected band shall lead to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.9 is executed, where larger equivalent aggregated bandwidth can be achieved.
8.7.9.3	FDD sustained data rate performance for 4 layer MIMO (2DL CA)	Rel-10	C227	UE supporting 2DL FDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and intra- band contiguous DL CA or inter-band DL CA (UE Category 9, 10, 11 and 12 and UE DL category 9, 10, 11, 12 and 15)	One "Test Number" to be performed. The selected CA configuration shall lead to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.9 is executed, where larger equivalent aggregated bandwidth can be achieved.
		Rel-11	C228	UE supporting 2DL FDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and intra- band non- contiguous DL CA (UE Category 9, 10, 11 and 12 and UE DL category 9, 10, 11, 12 and 15)			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.9.4	FDD sustained data rate performance for 4 layer MIMO (3DL CA)	Rel-10	C229	UE supporting 3DL FDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 3DL with CA configuration s in Table 4.1-3 (UE Category 11 and 12 and UE DL category 11, 12, 15, 16 and 18)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.9 is executed, where larger equivalent aggregated bandwidth can be achieved.
		Rel-11	C230	UE supporting 3DL FDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 3DL with CA configuration s in Table 4.1-3 and 4Rx antenna ports and 4- layer spatial multiplexing (UE Category 11 and 12 and UE DL category 11, 12, 15, 16 and 18)			
8.7.9.5	FDD sustained data rate performance for 4 layer MIMO (4DL CA)	Rel-11	C236	UE supporting 4DL FDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 4DL with CA configuration s in Table 4.1-4 (UE DL category 15, 16, 18 and 19)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.9 is executed, where larger equivalent aggregated bandwidth can be achieved.

Clause	Title	Release	Applicability		Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.9.6	FDD sustained data rate performance for 4 layer MIMO (5DL CA)	Rel-11	C237	UE supporting 5DL FDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 5DL with CA configuration s in Table 4.1-5 (UE DL category 15, 16, 18 and 19)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.9 is executed, where larger equivalent aggregated bandwidth can be achieved.
		Rel-12	C238	UE supporting 5DL FDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 5DL with CA configuration s in Table 4.1-5 (UE DL category 15, 16, 18 and 19)			
8.7.10.2	TDD sustained data rate performance for 4 layer MIMO (single carrier)	Rel-10	C239	UE supporting E- UTRA TDD with 4Rx antenna ports and 4-layer spatial multiplexing (UE Category 6 and 7 and UE DL category 13)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.10 is executed, where larger equivalent aggregated bandwidth can be achieved.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.10.3	TDD sustained data rate performance for 4 layer MIMO (2DL CA)	Rel-10	C240	UE supporting 2DL TDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and intra- band contiguous DL CA or inter-band DL CA (UE Category 9, 10, 11 and 12 and UE DL category 9, 10, 11, 12 and 15)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.10 is executed, where larger equivalent aggregated bandwidth can be achieved.
		Rel-11	C241	UE supporting 2DL TDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and intra- band non- contiguous DL CA (UE Category 9, 10, 11 and 12 and UE DL category 9, 10, 11, 12 and 15)			
8.7.10.4	TDD sustained data rate performance for 4 layer MIMO (3DL CA)	Rel-10	C242	UE supporting 3DL TDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 3DL with CA configuration s in Table 4.1-3 (UE Category 11 and 12 and UE DL category 11, 12, 15, 16 and 18)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.10 is executed, where larger equivalent aggregated bandwidth can be achieved.

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
		Rel-11	C243	UE supporting 3DL TDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 3DL with CA configuration s in Table 4.1-3 (UE Category 11 and 12 and UE DL category 11, 12, 15, 16 and 18)			
8.7.10.5	TDD sustained data rate performance for 4 layer MIMO (4DL CA)	Rel-11	C244	UE supporting 4DL TDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 4DL with CA configuration s in Table 4.1-4 (UE DL category 16, 18 and 19)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.10 is executed, where larger equivalent aggregated bandwidth can be achieved.
8.7.10.6	TDD sustained data rate performance for 4 layer MIMO (5DL CA)	Rel-11	C245	UE supporting 5DL TDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 5DL with CA configuration s in Table 4.1-5 (UE DL category 18 and 19)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.10 is executed, where larger equivalent aggregated bandwidth can be achieved.
		Rel-12	C246	UE supporting 5DL TDD CA with 4Rx antenna ports and 4-layer spatial multiplexing and 5DL with CA configuration s in Table 4.1-5 (UE DL category 18 and 19)			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.7.11.2	TDD FDD CA sustained data rate performance for 4 layer MIMO (2DL CA)	Rel-12	C247	UE supporting 2DL FDD- TDD CA with 4Rx antenna ports and 4- layer spatial multiplexing (UE Category 9, 10, 11 and 12 and UE DL category 9, 10, 11, 12 and 15)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.11 is executed, where larger equivalent aggregated bandwidth can be achieved.
8.7.11.3	TDD FDD CA sustained data rate performance for 4 layer MIMO (3DL CA)	Rel-12	C248	UE supporting 3DL FDD- TDD CA with 4Rx antenna ports and 4- layer spatial multiplexing (UE Category 11 and 12 and UE DL category 11, 12, 15, 16 and 18)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.11 is executed, where larger equivalent aggregated bandwidth can be achieved.
8.7.11.4	TDD FDD CA sustained data rate performance for 4 layer MIMO (4DL CA)	Rel-12	C249	UE supporting 4DL FDD- TDD CA with 4Rx antenna ports and 4- layer spatial multiplexing (UE DL category 15, 16, 18 and 19)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.11 is executed, where larger equivalent aggregated bandwidth can be achieved.
8.7.11.5	TDD FDD CA sustained data rate performance for 4 layer MIMO (5DL CA)	Rel-12	C250	UE supporting 5DL FDD- TDD CA with 4Rx antenna ports and 4- layer spatial multiplexing (UE DL category 16, 18 and 19)	One "Test Number" to be performed, in a chosen CA configuration, which leads to the largest equivalent aggregated bandwidth Note 3 supported by UE.		Test execution not necessary if another test case in clause 8.7.11 is executed, where larger equivalent aggregated bandwidth can be achieved.
8.8.1.1	FDD distributed EPDCCH performance	Rel-11	C55	UE supporting E- UTRA FDD and EPDCCH	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.8.1.2	TDD distributed EPDCCH performance	Rel-11	C56	UE supporting E- UTRA TDD and EPDCCH	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.8.2.1	FDD localized EPDCCH performance with TM9	Rel-11	C91	UE supporting E- UTRA FDD and EPDCCH and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.8.2.2	TDD localized EPDCCH performance with TM9	Rel-11	C92	UE supporting E- UTRA TDD and EPDCCH and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.8.3.1	FDD localized EPDCCH transmission with TM10 Type B quasi co-location type	Rel-11	C57	UE supporting E- UTRA FDD and EPDCCH and Multiple CSI processes on a component carrier within a band with PDSCH transmission mode 10	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.8.3.2	TDD localized EPDCCH transmission with TM10 Type B quasi co-location type	Rel-11	C58	UE supporting E- UTRA TDD and EPDCCH and Multiple CSI processes on a component carrier within a band with PDSCH transmission mode 10	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.8.4.1	FDD Enhanced Downlink Control Channel Performance Requirements Type A for EDPCCH - Localized Transmission with CRS Interference Model	Rel-13	C289	E-UTRA FDD UEs supporting Enhanced downlink control channel performance requirements type A			

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.8.4.2	TDD Enhanced Downlink Control Channel Performance Requirements Type A for EDPCCH - Localized Transmission with CRS Interference Model	Rel-13	C290	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type A			
8.8.5.1	TDD Enhanced Downlink Control Channel Performance Requirements Type A for EDPCCH - Distributed Transmission with TM9 Interference Model	Rel-13	C290	E-UTRA TDD UEs supporting Enhanced downlink control channel performance requirements type A			
8.8.6.1	FDD Enhanced Downlink Control Channel Performance Type A for EDPCCH- Distributed Transmission with TM3 Interference Model	Rel-13	C289	E-UTRA FDD UES supporting Enhanced downlink control channel performance requirements type A			
8.9.1.1.1	Transmit diversity performance for UE category 0 (Cell- Specific Reference Symbols)	Rel-12	C145	UE supporting E- UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.1.1 _1	FDD PDSCH Transmit Diversity 4x1 for UE category 1bis	Rel-13	C145d	UE supporting E- UTRA FDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.1.2	FDD closed-loop spatial multiplexing performance (Cell- Specific Reference Symbols)	Rel-12	C145	UE supporting E- UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.1.2 _1	FDD PDSCH Closed Loop Single Layer Spatial Multiplexing 4x1 for UE Category 1bis	Rel-13	C145d	UE supporting E- UTRA FDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.1.3	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE category 0	Rel-12	C157	UE supporting E- UTRA FDD (UE category 0) and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.9.1.1.3 _1	FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE category 1bis	Rel-13	C157a	UE supporting E- UTRA FDD (UE category 1bis) and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.2.1	TDD PDSCH Transmit Diversity for UE category 0	Rel-12	C156	UE supporting E- UTRA TDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.2.1 _1	TDD PDSCH Transmit Diversity for UE category 1bis	Rel-13	C156f	UE supporting E- UTRA TDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.2.2	TDD closed-loop spatial multiplexing performance (Cell- Specific Reference Symbols)	Rel-12	C145	UE supporting E- UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.2.2 _1	TDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x1 for UE Category 1bis	Rel-13	C156f	UE supporting E- UTRA TDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.2.3	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE category 0	Rel-12	C158	UE supporting E- UTRA TDD (UE category 0) and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.1.2.3 _1	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE category 1bis	Rel-13	C158a	UE supporting E- UTRA TDD (UE category 1bis) and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.2.1.1	FDD PHICH Transmit Diversity for UE category 0	Rel-12	C145	UE supporting E- UTRA FDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.2.1.1 _1	FDD PHICH Transmit Diversity for UE category 1bis	Rel-13	C145d	UE supporting E- UTRA FDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.9.2.2.1	TDD PHICH Transmit Diversity for UE category 0	Rel-12	C156	UE supporting E- UTRA TDD (UE category 0)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.9.2.2.1 _1	TDD PHICH Transmit Diversity for UE category 1bis	Rel-13	C156f	UE supporting E- UTRA TDD (UE category 1bis)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.10.1.1.	FDD PDSCH Transmit Diversity 2x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.1. 2	FDD PDSCH Open Loop Spatial Multiplexing 2x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.1.	FDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x4 with TM4 Interference Model – Enhanced Performance Requirement Type A	Rel-11	C113d	UE supporting E- UTRA FDD with 4Rx antenna ports and the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.1. 4	FDD PDSCH Closed Loop Spatial Multiplexing 4x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.1. 5	FDD PDSCH Single-layer Spatial Multiplexing 2x4 on antenna ports 7 or 8 with TM9 interference model – Enhanced Performance Requirement Type A	Rel-11	C113e	UE supporting E- UTRA FDD with 4Rx antenna ports and the enhanced performance requirements type A for LTE and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		

Clause	Title	Release	Applica	ability	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.10.1.1. 6	FDD Dual-Layer Spatial Multiplexing 2x4 (User-Specific Reference Symbols)	Rel-10	C113c	UE supporting E- UTRA FDD and Feature Group Indicator 103 and 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.1. 7	FDD Open-loop spatial multiplexing, 3 Layer Multiplexing with 4 Tx Antenna Ports	Rel-10	C220	UE supporting E- UTRA FDD with 4Rx antenna ports and 3-layer spatial multiplexing	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.1. 8	FDD Closed-loop spatial multiplexing performance, 4 Layers spatial multiplexing 4 Tx antennas	Rel-10	C220	UE supporting E-UTRA FDD with 4Rx antenna ports and 4-layer spatial multiplexing	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.1. 9	FDD 4 Layer Spatial Multiplexing (User- Specific Reference Symbols)	Rel-10	C113c	UE supporting E- UTRA FDD and eDL- MIMO and Feature Group Indicator 103 and 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 1	TDD PDSCH Transmit Diversity 2x4	Rel-10	C198	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 2	TDD PDSCH Open Loop Spatial Multiplexing 2x4	Rel-10	C198	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 3	TDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x4 with TM4 Interference Model – Enhanced Performance Requirement Type A	Rel-11	C198 a	UE supporting E- UTRA TDD with 4Rx antenna ports and the enhanced performance requirements type A for LTE	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.10.1.2. 4	TDD PDSCH Closed Loop Spatial Multiplexing 4x4	Rel-10	C198	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 5	TDD PDSCH Single-layer Spatial Multiplexing 2x4 on antenna ports 7 or 8 with TM9 interference model – Enhanced Performance Requirement Type A	Rel-11	C198 c	UE supporting E- UTRA TDD with 4Rx antenna ports and the enhanced performance requirements type A for LTE and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 6	TDD Dual-Layer Spatial Multiplexing 2x4 (User-Specific Reference Symbols)	Rel-10	C198 b	UE supporting E- UTRA TDD with 4Rx antenna ports and Feature Group Indicator 103	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 7	TDD Open-loop spatial multiplexing, 3 Layer Multiplexing with 4 Tx Antenna Ports	Rel-10	C235	UE supporting E- UTRA TDD with 4Rx antenna ports and 3-layer spatial multiplexing	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 8	TDD Closed-loop spatial multiplexing performance, 4 Layers spatial multiplexing 4 Tx antennas	Rel-10	C235	UE supporting E- UTRA TDD with 4Rx antenna ports and 4-layer spatial multiplexing	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.1.2. 9	TDD 4 Layer Spatial Multiplexing (User- Specific Reference Symbols)	Rel-10	C183	UE supporting E- UTRA FDD and Feature Group Indicator 103 and 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.2.1.	FDD PCFICH/PDCCH Single-antenna Port Performance 1x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.10.2.1. 2	FDD PCFICH/PDCCH Transmit Diversity Performance 2x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.2.1. 3	FDD PCFICH/PDCCH Transmit Diversity Performance 4x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.2.2. 1	TDD PCFICH/PDCCH Single-antenna Port Performance 1x4	Rel-10	C184	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.2.2. 2	TDD PCFICH/PDCCH Transmit Diversity Performance 2x4	Rel-10	C184	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.2.2. 3	TDD PCFICH/PDCCH Transmit Diversity Performance 4x4	Rel-10	C184	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.3.1. 1	FDD PHICH Single- antenna Port Performance 1x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.3.1. 2	FDD PHICH Transmit Diversity Performance 2x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.3.1. 3	FDD PHICH Transmit Diversity Performance 4x4	Rel-10	C113b	UE supporting E- UTRA FDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		

Clause	Title	Release	Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Condition	Comments	Configurations Selection		
8.10.3.2. 1	TDD PHICH Single- antenna Port Performance 1x4	Rel-10	C184	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.3.2. 2	TDD PHICH Transmit Diversity Performance 2x4	Rel-10	C184	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.3.2. 3	TDD PHICH Transmit Diversity Performance 4x4	Rel-10	C184	UE supporting E- UTRA TDD with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.4.1. 1	FDD distributed EPDCCH performance 2x4	Rel-10	C164	UE supporting E- UTRA FDD and EPDCCH with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.4.1. 2	TDD distributed EPDCCH performance 2x4	Rel-10	C165	UE supporting E- UTRA TDD and EPDCCH with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.4.2. 1	FDD localized EPDCCH performance with TM9 2x4	Rel-10	C166	UE supporting E- UTRA FDD and EPDCCH and Feature Group Indicator 103 with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		
8.10.4.2. 2	TDD localized EPDCCH performance with TM9 2x4	Rel-10	C167	UE supporting E- UTRA TDD and EPDCCH and Feature Group Indicator 103 with 4Rx antenna ports	Each "Test Number" to be performed once, in a chosen band supporting tested BW and 4Rx antenna ports		

Clause	Title	Release		Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
8.11.1.1.	FDD and half-duplex I	FDD	Rel-13	C145e	UE supporting E- UTRA FDD and UE category M1 and TM6 in CE Mode A	Each "Test Number" to be performed once,		
1	multiplexing performan UE supporting CE		Rel-14	C145x	UE supporting E- UTRA FDD and UE category M2 and TM6 in CE Mode A	in a chosen band supporting tested BW		
8.11.1.1.	FDD and half-duplex FDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE supporting CE		Rel-13	C145y	UE supporting E- UTRA FDD and UE category M1 and TM9 in CE Mode A	Each "Test Number" to be performed once,		
2			Rel-14	C145z	UE supporting E- UTRA FDD and UE category M2 and TM9 in CE Mode A	in a chosen band supporting tested BW		
8.11.1.1. 3.1	FDD and half-duplex I PDSCH Transmit Dive for UE category M1		Rel-13	C145a	UE supporting E- UTRA FDD and UE category M1	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.11.1.1. 3.1_1	FDD and half-duplex I PDSCH Transmit Dive for UE category M1 (CEmodeB)		Rel-13	C156c	UE supporting E- UTRA FDD and (UE category M1 and CE Mode B)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.11.1.2. 1	TDD Closed-loop spatial multiplexing performance for UE category M1 (Cell-Specific Reference Symbols)		Rel-13	C156x	UE supporting E- UTRA TDD and UE category M1 and TM6 in CE Mode A	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.11.1.2. 2	TDD PDSCH Single-layer Spatial Multiplexing on antenna ports 7 or 8 for UE category M1		Rel-13	C156e	UE supporting E- UTRA TDD and UE category M1 and TM9 in CE Mode A	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.11.1.2. 3.1	TDD PDSCH Transmi Diversity for UE categ		Rel-13	C156b	UE supporting E- UTRA TDD and UE category M1	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release		Applicabilit		Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
8.11.1.2. 3.1_1	TDD PDSCH Transmi Diversity for UE categ (CEModeB)		Rel-13	C156d	UE supporting E- UTRA TDD and UE category M1 and CE Mode B	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
8.11.2.1. 1	FDD demodulation of MPDCCH in CE Mode A		Rel-13	C145b	UE supporting E- UTRA FDD and (UE category M1 or CE Mode A)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
			Rel-14	C314	UE supporting E- UTRA FDD and (UE category M2 or CE Mode A)			
8.11.2.1. 2	FDD and half-duplex FDD demodulation of MPDCCH in CE Mode B		Rel-13	C156c	UE supporting E- UTRA FDD and (UE category M1 and CE Mode B)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
			Rel-14	C315	UE supporting E- UTRA FDD and (UE category M1 and CE Mode B)			
8.11.2.2. 1	TDD demodulation of MPDCCH in CE Mode		Rel-13	C156b	UE supporting E- UTRA TDD and (UE category M1 or UE category M2 or CE Mode A)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		
			Rel-14	C316	UE supporting E- UTRA TDD and (UE category M2 or CE Mode A)			
8.11.2.2. 2	TDD demodulation of MPDCCH in CE Mode		Rel-13	C156d	UE supporting E- UTRA TDD and (UE category M1 or UE category M2 and CE Mode B)	Each "Test Number" to be performed once, in a chosen band supporting tested BW		

Clause	Title	Release		Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
			Rel-14	C317	UE supporting E- UTRA TDD and (UE category M1 and CE Mode B)			
						I	T	
8.12.1.1. 1	Demodulation of NPE (Cell-Specific Referer Symbols) in In-band r Category NB1	nce	Rel-13	C112b	UE supporting category NB1	Each "Test Number" to be performed once, in a chosen band		
8.12.1.1. 2	Demodulation of NPDSCH (Cell-Specific Reference Symbols) in standalone and Guard-band mode for category NB1 Demodulation of NPDSCH		Rel-13	C112b	UE supporting category NB1	Each "Test Number" to be performed once, in a chosen band		
8.12.1.1. 3	Demodulation of NPDSCH (Cell-Specific Reference Symbols) in standalone for NB2		Rel-14	C298	UE supporting category NB2	Each "Test Number" to be performed once, in a chosen band		
8.12.2.1. 1	Demodulation of NPDCCH single-antenna performance for category NB1		Rel-13	C112b	UE supporting category NB1	Each "Test Number" to be performed once, in a chosen band		
8.12.2.1. 2	Demodulation of NPD In-band mode Transn Diversity performance Category NB1	nit	Rel-13	C112b	UE supporting category NB1	Each "Test Number" to be performed once, in a chosen band		
8.13.1.1.	FDD PDSCH Closed Multi Layer Spatial	•	Rel-10	C278	UE supporting E- UTRA FDD and intra- band contiguous DL CA or inter-band DL CA and 4 Rx antenna ports and 256QAM in DL (UE Category >= 5)			
3	Multiplexing 4x4 with (2DL CA)	256QAM	Rel-11	C279	UE supporting E- UTRA FDD and intra- band non- contiguous DL CA and 4 Rx antenna ports and 256QAM in DL (UE Category >= 5)			

Clause	Title	Release		Applicability		Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
8.13.1.1. 4	FDD PDSCH Closed Four-Layer Spatial Multiplexing for CA (2	•	Rel-11	C280	UE supporting E- UTRA FDD and 2DL CA with 4Rx antenna ports and 4-layer spatial multiplexing (UE Category >= 5)			
8.13.1.1. 1.2	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x4 (2DL CA)		Rel-10	C253	UE supporting E- UTRA FDD and intra- band contiguous DL CA or inter-band DL CA (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.1.1.1.3 or 8.13.1.1.1.4 or 8.13.1.1.1.5 is executed.
			Rel-11	C254	UE supporting E- UTRA FDD and intra- band non- contiguous DL CA (UE Category >= 5) and 4Rx antenna ports			
8.13.1.1.	FDD PDSCH Closed Loop		Rel-10	C255	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.1.1.1.4 or 8.13.1.1.1.5 is executed.
1.3	Multi Layer Spatial Multiplexing 4x4 (3DL	CA)	Rel-11	C256	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports			

Clause	Title	Release	Applicability		Tested Bands / CA-	Branch	Additional Information	
			Con	dition	Comments	Configurations Selection		
8.13.1.1. 1.4	FDD PDSCH Closed Multi Layer Spatial Multiplexing 4x4 (4DL	•	Rel-11	C257	UE supporting E- UTRA FDD and 4DL with CA configuration s in Table 4.1-4 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.1.1.1.5 is executed.
8.13.1.1.	FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x4 (5DL CA)		Rel-11	C258	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		
1.5			Rel-12	C259	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports			
8.13.1.2.	FDD Dual-Layer Spat Multiplexing 2x4 (Use Specific Reference Sy (2DL CA)	r-	Rel-10	C253	Supporting E- UTRA FDD and intra- band contiguous DL CA or inter-band DL CA (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.1.2.3 or 8.13.1.2.4 or 8.13.1.2.5 is executed.
			Rel-11	C254	UE supporting E- UTRA FDD and intra- band non- contiguous DL CA (UE Category >= 5) and 4Rx antenna ports			

Clause	Title	Release		Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
8.13.1.2. 3	FDD Dual-Layer Spat Multiplexing 2x4 (Use Specific Reference Sy (3DL CA)	r-	Rel-10	C255	UE supporting E- UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.1.2.4 or 8.13.1.2.5 is executed.
			Rel-11	C256	UE supporting E-UTRA FDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports			
8.13.1.2. 4	FDD Dual-Layer Spat Multiplexing 2x4 (Use Specific Reference Sy (4DL CA)	r-	Rel-11	C257	UE supporting E- UTRA FDD and 4DL with CA configuration s in Table 4.1-4 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.1.2.5 is executed.
8.13.1.2. 5	FDD Dual-Layer Spat Multiplexing 2x4 (Use Specific Reference Sy (5DL CA)	r-	Rel-11	C258	UE supporting E-UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		
			Rel-12	C259	UE supporting E- UTRA FDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports			

Clause	Title	Release	Applica		bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
8.13.1.3. 1	FDD PDSCH Closed Single Layer Spatial Multiplexing 2x4 with Interference Model – Enhanced Performance Requirement Type A (TM4	Rel-11	C281	UE supporting E- UTRA FDD and 2DL CA with 4Rx antenna ports and the enhanced performance requirements type A (UE Category >= 5)			
8.13.1.4. 1	FDD PDSCH Single-layer Spatial Multiplexing 2x4 on antenna ports 7 or 8 with TM9 Interference Model - Enhanced Performance Requirement Type A (2DL CA)		Rel-11	C282	UE supporting E- UTRA FDD and 2DL CA with 4Rx antenna ports and the enhanced performance requirements type A and Feature Group Indictor 103 (UE Category >= 5)			
8.13.2.1. 1.2	TDD PDSCH Closed		Rel-10	C291	UE supporting E- UTRA TDD and intra- band contiguous DL CA or inter-band DL CA (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.2.1.1.3 or 8.13.2.1.1.4 or 8.13.2.1.1.5 is executed.
	Multiplexing 4x4 (2DL	CA)	Rel-11	C292	UE supporting E- UTRA TDD and intra- band non- contiguous DL CA (UE Category >= 5) and 4Rx antenna ports			
8.13.2.1. 1.3	TDD PDSCH Closed Multi Layer Spatial Multiplexing 4x4 (3DL		Rel-10	C293	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.2.1.1.4 or 8.13.2.1.1.5 is executed.

Clause	Title	Release		Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
			Rel-11	C294	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports			
8.13.2.1. 1.4	TDD PDSCH Closed Multi Layer Spatial Multiplexing 4x4 (4DL		Rel-11	C295	UE supporting E- UTRA TDD and 4DL with CA configuration s in Table 4.1-4 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.2.1.1.5 is executed.
8.13.2.1. 1.5	TDD PDSCH Closed Multi Layer Spatial Multiplexing 4x4 (5DL		Rel-11	C296	UE supporting E- UTRA TDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		
			Rel-12	C297	UE supporting E- UTRA TDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports			
8.13.2.2. 2	TDD Dual-Layer Spat Multiplexing 2x4 (Use Specific Reference Sy (2DL CA)	r-	Rel-10	C291	UE supporting E- UTRA TDD and intra- band contiguous DL CA or inter-band DL CA (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.2.2.3 or 8.13.2.2.4 or 8.13.2.2.5 is executed.

Clause	Title	Release		Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
		TDD Dual-Layer Spatial Multiplexing 2x4 (User- Specific Reference Symbols) (3DL CA) TDD Dual-Layer Spatial Multiplexing 2x4 (User- Specific Reference Symbols) (4DL CA)		C292	UE supporting E- UTRA TDD and intra- band non- contiguous DL CA (UE Category >= 5) and 4Rx antenna ports			
8.13.2.2. 3	Multiplexing 2x4 (Use Specific Reference Sy			C293	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.2.2.4 or 8.13.2.2.5 is executed.
				C294	UE supporting E- UTRA TDD and 3DL with CA configuration s in Table 4.1-3 (UE Category >= 5) and 4Rx antenna ports			
8.13.2.2. 4	Multiplexing 2x4 (Use Specific Reference Sy			C295	UE supporting E- UTRA TDD and 4DL with CA configuration s in Table 4.1-4 (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		Test execution not necessary if 8.13.2.2.5 is executed.
8.13.2.2. 5	TDD Dual-Layer Spatial Multiplexing 2x4 (User- Specific Reference Symbols) (5DL CA)		Rel-11	C296	UE supporting E- UTRA TDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.6.5		

Clause	Title	Release		Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
			Rel-12	C297	UE supporting E- UTRA TDD and 5DL with CA configuration s in Table 4.1-5 (UE Category 8, >= 11) and 4Rx antenna ports			
8.13.2.3. 1	TDD PDSCH Closed Loop Single Layer Spatial Multiplexing 2x4 with TM4 Interference Model – Enhanced Performance Requirement Type A (2DL CA)		Rel-11	C283	UE supporting E- UTRA TDD and 2DL CA with 4Rx antenna ports and the enhanced performance requirements type A (UE Category >= 5)			
8.13.2.4. 1	TDD PDSCH Single-Is Spatial Multiplexing 2 antenna ports 7 or 8 v Interference Model - Enhanced Performan Requirement Type A	x4 on with TM9 ce	Rel-11	C284	UE supporting E- UTRA TDD and 2DL CA with 4Rx antenna ports and the enhanced performance requirements type A and Feature Group Indictor 103 (UE Category >= 5)			
8.13.3.1. 1.2	TDD-FDD CA PDSCH Loop Multi Layer Spa Multiplexing 4x4 for F (2DL CA)	tial	Rel-12	C306	UE supporting E- UTRA FDD and TDD and 2DL CA with FDD as PCell (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.3.1.1.3 or 8.13.3.1.1.4 or 8.13.3.1.1.5 is executed.
8.13.3.1. 1.3	TDD-FDD CA PDSCH Loop Multi Layer Spa Multiplexing 4x4 for F (3DL CA)	tial	Rel-12	C307	UE supporting E- UTRA FDD and TDD and 3DL CA with FDD as PCell (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.3.1.1.4 or 8.13.3.1.1.5 is executed.

Clause	Title	Release		Applica	bility	Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
8.13.3.1. 1.4	TDD-FDD CA PDSCH Loop Multi Layer Spat Multiplexing 4x4 for F (4DL CA)	tial	Rel-12	C308	UE supporting E- UTRA FDD and TDD and 4DL CA with FDD as PCell (UE Category >= 8) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.3.1.1.5 is executed.
8.13.3.1. 1.5	TDD-FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x4 for FDD PCell (5DL CA)		Rel-12	C309	UE supporting E- UTRA FDD and TDD and 5DL CA with FDD as PCell (UE Category >= 8) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		
8.13.3.1. 2.2	Loop Multi Layer Spat	TDD-FDD CA PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x4 for TDD PCell (2DL CA)		C310	UE supporting E- UTRA FDD and TDD and 2DL CA with TDD as PCell (UE Category >=5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.3.1.2.3 or 8.13.3.1.2.4 or 8.13.3.1.2.5 is executed.
8.13.3.1. 2.3	TDD-FDD CA PDSCH Loop Multi Layer Spat Multiplexing 4x4 for T (3DL CA)	tial	Rel-12	C311	UE supporting E- UTRA FDD and TDD and 3DL CA with TDD as PCell (UE Category >= 5) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.3.1.2.4 or 8.13.3.1.2.5 is executed.
8.13.3.1. 2.4	TDD-FDD CA PDSCH Loop Multi Layer Spat Multiplexing 4x4 for T (4DL CA)	tial	Rel-12	C312	UE supporting E- UTRA FDD and TDD and 4DL CA with TDD as PCell (UE Category >= 8)	Refer to 36.521- 1 8.1.2.3		Test execution not necessary if 8.13.3.1.2.5 is executed.
8.13.3.1. 2.5	TDD-FDD CA PDSCH Loop Multi Layer Spat Multiplexing 4x4 for T (5DL CA)	tial	Rel-12	C322	UE supporting E- UTRA FDD and TDD and 5DL CA with TDD as PCell (UE Category 8, and Category11 and onwards) and 4Rx antenna ports	Refer to 36.521- 1 8.1.2.3		

Clause	Title	Release		Applicability		Tested Bands / CA-	Branch	Additional Information
			Con	dition	Comments	Configurations Selection		
8.13.3.3. 1	TDD-FDD CA PDSCH Closed Loop Single Layer Spatial Multiplexing 2x4 with TM4 Interference Model-Enhanced Performance Requirement Type A for FDD Pcell (2DL CA)		Rel-12	C231	UE supporting E- UTRA FDD and TDD and 2DL CA with 4Rx antenna ports and the enhanced performance requirements type A for LTE and FDD as PCell (UE Category >=5)			
8.13.3.3. 2	TDD-FDD CA PDSCH Closed Loop Single Layer Spatial Multiplexing 2x4 with TM4 Interference Model-Enhanced Performance Requirement Type A for TDD Pcell (2DL CA)		Rel-12	C232	UE supporting E- UTRA FDD and TDD and 2DL CA with 4Rx antenna ports and the enhanced performance requirements type A for LTE and TDD as PCell (UE Category >=5)			
8.13.3.4. 1	TDD-FDD CA PDSCI- layer Spatial Multiples on antenna ports 7 or TM9 Interference Mod Enhanced Performan Requirement Type A PCell (2DL CA)	xing 2x4 8 with del - ce	Rel-12	C233	UE supporting E- UTRA FDD and TDD and 2DL CA with 4Rx antenna ports and Feature Group Indictor 103 and the enhanced performance requirements type A for LTE and FDD as PCell (UE Category >=5)			

Clause	Title	Release		Apı	olicabi	lity		Bands / A-	Branch	Additional Information
			Con	dition	1	Comments		urations ction		
8.13.3.4. 2	TDD-FDD CA PDSCH layer Spatial Multiplex on antenna ports 7 or TM9 Interference Mod Enhanced Performand Requirement Type A f PCell (2DL CA)	ring 2x4 8 with del - ce	Rel-12	C23	4	Supporting E- UTRA FDD and TDD and 2DL CA with 4Rx antenna ports and Feature Group Indictor 103 and the enhanced performance requirements type A for LTE and TDD as PCell (UE Category >=5)				
8.13.3.6. 1	Loop Multi Layer Spat	plexing 4x4 with 256QAM		C25	1	UE supporting E- UTRA FDD and TDD and 2DL CA with 4Rx antenna ports and 256QAM in DL and FDD as Pcell(UE Category >=5)				
8.13.3.6. 2	TDD-FDD CA PDSCH Loop Multi Layer Spat Multiplexing 4x4 with 2 for TDD PCell (2DL C	tial 256QAM	Rel-12	C25	2	UE supporting E- UTRA FDD and TDD and 2DL CA with 4Rx antenna ports and 256QAM in DL and TDD as Pcell(UE Category >=5)				
				Rep	orting	of Channel St	ate Infori			
9.2.1.1	FDD CQI Reporting u AWGN conditions - Pl		Rel-8		C01	UE supporti UTRA FDD		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Apı	Applicability Tested Band			Branch	Additional Information	
			Condition	ı	Comments	Configu	irations ction		
9.2.1.2	TDD CQI Reporting under AWGN conditions - PUCCH 1-0		Rel-8	C02	UE supporti UTRA TDD		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.1.3_ C.1	FDD CQI Reporting u AWGN conditions - Pi for eICIC (non-MBSFI	UCCH 1-0	Rel-10	C29	UE supporti UTRA FDD Feature Gro Indicator 11	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.1.4_ C.1	TDD CQI Reporting u AWGN conditions - Pi for eICIC (non-MBSFI	UCCH 1-0	Rel-10	C30	UEs suppor UTRA TDD Feature Gro Indictor 115	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.1.5_ E.1	FDD CQI Reporting u AWGN conditions - Pi for felCIC (non-MBSF	UCCH 1-0	Rel-11	C77	UE supporti UTRA FDD CRS interfe handling an Feature Gro Indicator 11 Category >=	and rence d oup 5 (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabil	ity	С	Tested Bands / CA-		Additional Information
			Condition	1	Comments		ırations ction		
9.2.1.6_ E.1		CQI Reporting under N conditions - PUCCH 1-0 ICIC (non-MBSFN ABS)		C78	UE supports UTRA TDD CRS interfe handling an CCH interfe handling an Feature Gro Indicator 11 Category >=	and rence d ss- rence d bup 5(UE = 2)	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.1.7	FDD CQI Reporting u AWGN conditions - P for 256QAM in DL		Rel-12	C01h	UE supporti UTRA FDD 256QAM in category 11 UE DL category >=	and DL(UE -12 and		2Rx, 4Rx	
9.2.1.8	TDD CQI Reporting u AWGN conditions - P for 256QAM in DL		Rel-12	C02h	UE supporti UTRA TDD 256QAM in category 11 UE DL category >=	ing E- and DL(UE -12 and		2Rx, 4Rx	
9.2.2.1	FDD CQI Reporting u AWGN conditions - P		Rel-8	C13 b	UE supporti UTRA FDD categories :	ing E- (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.2.2.2	TDD CQI Reporting u AWGN conditions - P	nder UCCH 1-1	Rel-8	C02	UE supporti UTRA TDD	ing E-	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabil	ity		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Config	urations ction		
9.2.3.1_ D		DD CQI Reporting under WGN conditions - PUCCH 1-1 or eDL-MIMO		C25	UE supporti UTRA FDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.3.2_ D	TDD CQI Reporting u AWGN conditions - P for eDL-MIMO		Rel-10	C26	UE supporti UTRA TDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.4.1_ F	FDD CQI Reporting u AWGN conditions - S Process for CoMP	inder ingle CSI	Rel-11	C117	UE supporti UTRA FDD Maximum C processes of Three or Fo component within a bar PDSCH transmission 10 (UE Cate 2)	and SI of One, our on a carrier ad with n mode	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.2.4.2_ F	TDD CQI Reporting u AWGN conditions - Si Process for CoMP		Rel-11	C118	UE supporti UTRA TDD Maximum C processes of Three or Fo component within a ban PDSCH transmission 10 (UE Cate 2)	and SI of One, our on a carrier ad with n mode	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.2.5	TDD CQI Reporting u AWGN conditions – F 1 (when csi-Subframe and EIMTA- MainConfigServCell-r configured)	PUCCH 1- eSet –r12	Rel-12	C275	UE supporti UTRA TDD eIMTA TDD reconfigurat Rel-12 CSI subframe se Category >=	and UL-DL tion and ets (UE			

Clause	Title	Release	Ар	plicabilit	y		Bands / A-	Branch	Additional Information
			Condition	. (Comments	Configu	urations ction		
9.2.6.1	AWGN Conditions wit	LAA CQI Reporting under AWGN Conditions with Frame Structure Type 3 with FDD as Pcell (PUSCH 3-0)		C209	UE supporti UTRA FDD downlink LA FDD as Pce	ing E- and AA with	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.6.2	LAA CQI Reporting us AWGN Conditions wit Structure Type 3 with Pcell (PUSCH 3-0)	th Frame	Rel-13	C217	UE supporti UTRA TDD downlink LA TDD as Pce	and AA with	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.7.1	LAA CQI Reporting ui AWGN Conditions wit Structure Type 3 with Pcell (PUSCH 3-1)	th Frame FDD as	Rel-13	C218	UE supporti UTRA FDD downlink LA FDD as Poe TM9 on LAA	and AA with ell and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.2.7.2	LAA CQI Reporting us AWGN Conditions wit Structure Type 3 with Pcell (PUSCH 3-1)	th Frame	Rel-13	C219	UE supporti UTRA TDD downlink LA TM9 on LAA	and AA and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabili	ity		Bands / A-	Branch	Additional Information
			Condition	1	Comments		urations ction		
9.3.1.1.1	FDD CQI Reporting under fading conditions - PUSCH 3-0		Rel-8	C01		UE supporting E- UTRA FDD		2Rx, 4Rx	
9.3.1.1.2	TDD CQI Reporting u fading conditions - PU	inder JSCH 3-0	Rel-8	C02	UE supporti UTRA TDD		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.1.1.5	TDD CQI Reporting u fading conditions – PI (when csi-SubframeS configured)	JCCH 3-0	Rel-12	C276	UE supporti UTRA TDD Rel-12 CSI subframe se category >=	and ets (UE			
9.3.1.2.1 _D	FDD CQI Reporting u fading conditions - PU for eDL-MIMO		Rel-10	C25	UE supporti UTRA FDD Feature Gro Indicator 10	ng E- and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.1.2.2 _D	TDD CQI Reporting u fading conditions - PU for eDL-MIMO		Rel-10	C25a	UE supporti UTRA TDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Арр	plicabilit	у	C		Branch	Additional Information
			Condition	. (Comments		rations		
9.3.1.2.3	FDD CQI Reporting u fading conditions - PU for 256QAM in DL		Rel-12	C260	category >=11) Feature Group Indicator 103			2Rx, 4Rx	
9.3.1.2.4	TDD CQI Reporting under fading conditions - PUSCH 3-1 for 256QAM in DL		Rel-12	C261	UE supporting E- UTRA TDD and 256QAM in DL(UE category 11-12 and UE DL category >=11) and Feature Group Indicator 103			2Rx, 4Rx	
9.3.1.2.6	TDD CQI Reporting u fading conditions – PI (when csi-SubframeS configured with one C process)	UCCH 3-1 Set –r12 is	Rel-12	C277	UE support UTRA TDD Rel-12 CSI subframe so TM10 (UE Category >:	and ets and		2Rx	
9.3.1.3.1 _E.1	FDD CQI Reporting u fading conditions - PU for feICIC (non-MBSF	JSCH 3-0	Rel-11	C79	UE support UTRA FDD CRS interfe handling an Feature Gro Indicator 11	ing E- and rence d bup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.1.3.2 _E.1	TDD CQI Reporting u fading conditions - PU for feICIC (non-MBSF	JSCH 3-0	Rel-11	C80	UE support UTRA TDD CRS interfer handling an CCH interfer handling an Feature Gro Indicator 11	and rence d ss- rence d oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.2.1.1	FDD CQI Reporting u fading conditions - PU		Rel-8	C13 b	UE support UTRA FDD Category >:	(ŬE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabil	ity	Tested Bands / CA-		Branch	Additional Information
			Condition	1	Comments	Configu	rations		
9.3.2.1.1 _1	FDD CQI Reporting u fading conditions - Pt (Release 9 and forwa	JCCH 1-0	Rel-9	C15	UE supporti UTRA FDD category 1)	ing E-	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.2.1.2	TDD CQI Reporting u fading conditions - PU		Rel-8	C14	UE support UTRA TDD Category >:	(ÜE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.2.1.2 _1	TDD CQI Reporting u fading conditions - Pt (Release 9 and forwa	JCCH 1-0	Rel-9	C16	UE support UTRA TDD category 1)		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.2.2.1 _D	FDD CQI Reporting u fading conditions - PU for eDL-MIMO		Rel-10	C25x	UE support UTRA FDD Feature Gro Indicator 10 Category >:	and oup 3 (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Apı	plicabilit	ty		Bands / A-	Branch	Additional Information
			Condition	. (Comments	Configu	urations ction		
9.3.2.2.2 _D	TDD CQI Reporting u fading conditions - PU for eDL-MIMO		Rel-10	C28y	UE supporti UTRA TDD Feature Gro Indicators 1 110 (UE Category >:	ing E- and bup 04 and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.3.1.1	FDD CQI Reporting under fading conditions and frequency-selective interference - PUSCH 3-0		Rel-8	C01	UE supporting E- UTRA FDD		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.3.1.2	TDD CQI Reporting u fading conditions and frequency-selective interference - PUSCH		Rel-8	C02	UE supporting E- UTRA TDD		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.4.1.1	FDD CQI Reporting u fading conditions - PU		Rel-9	C32	UE supporti UTRA FDD Feature Gro Indicator 1	and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Applical		ity		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Configu	rations ction		momation
9.3.4.1.2	TDD CQI Reporting u fading conditions - PL		Rel-9	C37	UE supporti UTRA TDD Feature Gro Indicator 1	and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.4.2.1	FDD CQI Reporting under fading conditions - PUCCH 2-0		Rel-9	C36	UE supporti UTRA FDD Feature Gro Indicator 2	and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.4.2.2	TDD CQI Reporting u fading conditions - PL		Rel-9	C38	UE supporti UTRA TDD Feature Gro Indicator 2	and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabil	ity		Bands / A-	Branch	Additional Information
			Condition	ì	Comments		urations ction		
9.3.5.1.1	FDD CQI Reporting u fading conditions - PU - Enhanced Performa Requirement Type A	JCCH 1-0	Rel-11	C44	UE supporti UTRA FDD enhanced performanc requiremen A for LTE	ng E- and the	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.5.1.2	TDD CQI Reporting u fading conditions - PU - Enhanced Performa Requirement Type A	JCCH 1-0	Rel-11	C45	UE supporti UTRA TDD enhanced performanc requiremen A for LTE	and the	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.5.2.1	FDD CQI Reporting u fading conditions - PU - Enhanced Performa Requirement Type A	JCCH 1-1	Rel-11	C44z	UE supporti UTRA FDD enhanced performance requirement A for LTE (U Category >= Feature Gro Indicator 10	and the e ts type JE = 2) and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.5.2.2	TDD CQI Reporting u fading conditions - PL - Enhanced Performa Requirement Type A	JCCH 1-1	Rel-11	C45i	UE supporti UTRA TDD enhanced performance requirement A for LTE (I Category >= Feature Gro Indicator 10	and the e ts type JE = 2) and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	1	Comments		urations ction		
9.3.6.1_ F.1	FDD CQI Reporting u fading conditions with CSI process for CoMI	ding conditions with Single		C50a	UE support UTRA FDD Maximum C processes of on a compo carrier within band with P transmissio 10	ing E- and SI of One nent n a	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.6.1_ F.2	FDD CQI Reporting u fading conditions with CSI processes for Co	Three	Rel-11	C96	UE supporti UTRA FDD Maximum C processes c on a compo carrier withi band with P transmissio 10	and SI of Three nent n a DSCH	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.6.1_ F.3	FDD CQI Reporting u fading conditions with processes for CoMP		Rel-11	C97	UE supporti UTRA FDD Maximum C processes c on a compo carrier withi band with P transmissio 10	and SI of Four nent n a DSCH	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.6.2_ F.1	TDD CQI Reporting u fading conditions with CSI process for CoMi	Single	Rel-11	C51a	UE supporti UTRA TDD Maximum C processes of on a compo carrier withi band with P transmissio 10	and SI of One nent n a DSCH	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	1	Comments		urations ction		
9.3.6.2_ F.2	TDD CQI Reporting u fading conditions with CSI processes for Co	Three	Rel-11	C98	UE support UTRA TDD Maximum C processes of on a compo carrier within band with F transmission	ing E- and SI of Three nent n a	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.6.2_ F.3	TDD CQI Reporting u fading conditions with processes for CoMP		Rel-11	C99	UE support UTRA TDD Maximum C processes of on a compo carrier within band with F transmission	and SI of Four nent n a DSCH	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.3.7.1	FDD CQI Reporting u fading conditions - PU for eDL MIMO Enhan	JSCH 3-2	Rel-12	C25	UE support UTRA FDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	9.3.7.1
9.3.7.2	TDD CQI Reporting u fading conditions - PU for eDL MIMO Enhan	JSCH 3-2	Rel-12	C25a	UE support UTRA TDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabilit	:y		Bands / A-	Branch	Additional Information
			Condition	. (Comments		urations ction		
9.3.8.1.1	FDD CQI Reporting u fading conditions - PU (Cell-Specific Referen Symbols) TM4 - Enha Receiver Type B	JCCH 1-1 nce	Rel-12	C152	UE supporti UTRA FDD enhanced performanc requiremen B for LTE (I Category >:	ing E- and the e ts type JE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.8.1.2	TDD CQI Reporting u fading conditions - PL (Cell-Specific Referen Symbols) TM4 - Enha Receiver Type B	JCCH 1-1 nce	Rel-12	C153	UE supporti UTRA TDD enhanced performanc requiremen B for LTE (I Category >:	and the e ts type JE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.8.2.1	FDD CQI Reporting u fading conditions - PU (CSI Reference Symb Enhanced Receiver T	JCCH 1-1 ool) TM9 -	Rel-12	C152	UE supporti UTRA FDD enhanced performanc requiremen B for LTE (I Category >:	and the e ts type JE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.8.2.2	TDD CQI Reporting u fading conditions - PL (CSI Reference Symb Enhanced Receiver T	JCCH 1-1 ool) TM9 -	Rel-12	C153	UE support UTRA TDD enhanced performanc requiremen B for LTE (I Category >:	and the e ts type JE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabilit	у		Bands / A-	Branch	Additional Information
			Condition	. (Comments	Configu	urations ction		illomation
9.3.8.3.1	FDD CQI Reporting u fading conditions - PU (CSI Reference Symb with TM9 interference Enhanced Receiver T	JCCH 1-1 ool) TM10 e -	Rel-12	C152	UE supporti UTRA FDD enhanced performance requirement B for LTE (U Category >=	ng E- and the e ts type JE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.3.8.3.2	TDD CQI Reporting u fading conditions - PL (CSI Reference Symb with TM9 interference Enhanced Receiver T	JCCH 1-1 ool) TM10 e -	Rel-12	C153	UE supporti UTRA TDD enhanced performance requirement B for LTE (U Category >=	and the e ts type JE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.4.1.1.1	FDD PMI Reporting - 3-1 (Single PMI)	PUSCH	Rel-8	C01	UE supporti UTRA FDD	ng E-	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.1.1.2	TDD PMI Reporting - 3-1 (Single PMI)	PUSCH	Rel-8	C02	UE supporti UTRA TDD	ng E-	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Арј	plicabili	ity		Bands / A-	Branch	Additional Information
			Condition	1	Comments		ırations ction		
9.4.1.2.1	FDD PMI Reporting - 2-1 (Single PMI)	PUCCH	Rel-9	C36	UE supporti UTRA FDD Feature Gro Indicator 2	ng E- and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.1.2.2	TDD PMI Reporting - 2-1 (Single PMI)	PUCCH	Rel-9	C38	UE supporti UTRA TDD Feature Gro Indicator 2	and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.1.3.1_ D	FDD PMI Reporting - 3-1 (Single PMI) for e		Rel-10	C25	UE supporti UTRA FDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.1.3.2 _D	TDD PMI Reporting - 3-1 (Single PMI) for e	PUSCH DL-MIMO	Rel-10	C26	UE supporti UTRA TDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabil	ity		Bands / A-	Branch	Additional Information
			Condition	1	Comments		urations ction		
9.4.1.4.1	FDD PMI Reporting w enhanced codebook - 1-1 (Single PMI) for e Enhancement	PUCCH	Rel-12	C25	UE support UTRA FDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.1.4.2	TDD PMI Reporting with 4Tx enhanced codebook - PUCCH 1-1 (Single PMI) for eDL MIMO Enhancement		Rel-12	C25a	UE supporting E- UTRA TDD and Feature Group Indicator 103		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.2.1.1	FDD PMI Reporting - 1-2 (Multiple PMI)	PUSCH	Rel-8 only	C11	UE support UTRA FDD operating b supporting 3 Bandwidth categories 2	and ands 20 MHz (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.2.1.1 _1	FDD PMI Reporting - 1-2 (Multiple PMI) (Re and forward)		Rel-9	C01	UE support UTRA FDD	ing E-	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Apı	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	n	Comments	Configu	urations ction		
9.4.2.1.2	TDD PMI Reporting - 1-2 (Multiple PMI)	PUSCH	Rel-8 only	C12	UE supporti UTRA TDD operating be supporting 3 Bandwidth (categories 2	ing E- and ands 20 MHz (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.2.1.2 _1	TDD PMI Reporting - 1-2 (Multiple PMI) (Re and forward)		Rel-9	C02	UE supporti UTRA TDD	ing E-	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.2.2.1	FDD PMI Reporting - 2-2 (Multiple PMI)	PUSCH	Rel-9	C32	UE supporti UTRA FDD Feature Gro Indicators 1	and	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.2.2.2	TDD PMI Reporting - 2-2 (Multiple PMI)	PUSCH	Rel-9	C33	UE supporti UTRA TDD Feature Gro Indicators 1	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	1	Comments		ırations ction		
9.4.2.3.1 _D	FDD PMI Reporting - 1-2 (Multiple PMI) for MIMO		Rel-10	C25	UE supporti UTRA FDD Feature Gro Indicator 10	ing E- and pup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.2.3.2 _D	TDD PMI Reporting - 1-2 (Multiple PMI) for MIMO	PUSCH eDL-	Rel-10	C26	UE supporti UTRA TDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.4.2.3.3	FDD PMI Reporting wenhanced codebook - 1-2 (Multiple PMI) for MIMO Enhancement	PUSCH	Rel-12	C25	UE supporti UTRA FDD Feature Gro Indicator 10	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.4.2.3.4	TDD PMI Reporting w enhanced codebook - 1-2 (Multiple PMI) for MIMO Enhancement	PUSCH	Rel-12	C25a	UE supporti UTRA TDD eDL-MIMO Enhanceme Feature Gro Indicator 10	and ent and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	

Clause	Title	Release	Ар	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Configu	urations ction		
9.5.1.1	FDD RI Reporting - Pi	UCCH 1-1	Rel-8 and Rel-9 only	C13a	UE supporti UTRA FDD Category 2-	ing E- (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.1.1_1	FDD RI Reporting - Pi (Release 10)	UCCH 1-1	Rel-10 only	C13	UE supporting E- UTRA FDD (UE Category 2-8)		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.1.1_2	FDD RI Reporting- PU (Release 11)	JCCH 1-1	Rel-11	C13b	UE supporti UTRA FDD Category >=	(UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.1.2	TDD RI Reporting - P	USCH 3-1	Rel-8 and Rel-9 only	C14a	UE supporti UTRA TDD Category 2-	(UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Configu	urations ction		
9.5.1.2_1	TDD RI Reporting - P (Release 10)	USCH 3-1	Rel-10 only	C14	UE supporti UTRA TDD Category 2-	ing E- (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.1.2_2	TDD RI Reporting- Pt (Release 11)	JSCH 3-1	Rel-11	C14b	UE supporti UTRA TDD Category >:	(ŬE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.2.1_ D	FDD RI Reporting - P for eDL-MIMO	UCCH 1-1	Rel-10	C25x	UE supporti UTRA FDD Feature Gro Indicators 1 Category >:	and oup 03 (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.2.2_ D	TDD RI Reporting - P for eDL-MIMO	UCCH 1-1	Rel-10	C25y	UE supporti UTRA TDD Feature Gro Indicator 10 Category >:	and oup 3 (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabil	ity		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Configu	ırations ction		
9.5.3.1_ C.1	FDD RI Reporting - Pi for elCIC (non-MBSFI		Rel-10	C29	UE supporti UTRA FDD Feature Gro Indicator 11	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.3.2_ C.1	TDD RI Reporting - Pi for elCIC (non-MBSFI	UCCH 1-0 N ABS)	Rel-10	C30	UE supporti UTRA TDD Feature Gro Indicator 11	and oup	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.4.1_ E.1	FDD RI Reporting - Pi for feICIC (non-MBSF	'N ABS)	Rel-11	C77	UE supporti UTRA FDD CRS interfe handling an Feature Gro Indicator 11 Category >=	and rence d oup 5 (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.5.4.2_ E.1	TDD RI Reporting - Pi for felCIC (non-MBSF		Rel-11	C78	UE supporti UTRA TDD CRS interfe handling an CCH interfe handling an Feature Gro Indicator 11 Category >=	and rence d ss- rence d oup 5(UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabil	lity		Bands / A-	Branch	Additional Information
			Condition	1	Comments		urations ction		
9.5.5.1_ F.1	FDD RI Reporting wit CSI processes for Co		Rel-11	C50	UE supporti UTRA FDD Maximum C processes c on a compo carrier withi band with P transmissio 10 (UE Cate 2)	and CSI of One onent n a DSCH n mode	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.5.5.1_ F.2	FDD RI Reporting with Multiple CSI processes for CoMP		Rel-11	C52	UE supporti UTRA FDD Maximum C processes of or Four on a component within a bar PDSCH transmissio 10 (UE Cate 2)	and CSI of Three a carrier nd with	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.5.5.2_ F.1	TDD RI Reporting wit CSI process for CoMI		Rel-11	C51	UE supporti UTRA TDD Maximum C processes of on a compo carrier withi band with P transmissio 10 (UE Cate 2)	and CSI of One onent n a PDSCH n mode	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.5.5.2_ F.2	TDD RI Reporting wit CSI processes for Co		Rel-11	C53	UE supporti UTRA TDD Maximum C processes of or Four on a component within a bar PDSCH transmissio 10 (UE Cate 2)	and CSI of Three a carrier nd with	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW	2Rx, 4Rx	
9.6.1.1_ A.1	FDD CQI Reporting u AWGN conditions - P for CA (2 DL CA)		Rel-10	C108	UE supporti UTRA FDD intra-band contiguous or inter-ban (UE Catego	and DL CA d DL CA	Refer to 36.521 -1 9.1.1.2	2Rx, 4Rx	Test execution not necessary if 9.6.1.1_A.2 is executed.

Clause	Title	Release	Ар	plicabi	lity		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Configu	urations ction		orauo
			Rel-11	C103	UE supporti UTRA FDD intra-band r contiguous CA(UE Cate 3)	ng E- and ion- DL			
9.6.1.1_	FDD CQI Reporting under AWGN conditions - PUCCH 1-0 for CA (3 DL CA)		Rel-10	C124	UE supporti UTRA FDD 3DL with int contiguous	and ra-band CA, or er-band with and CA (UE	Refer to 36.521 -1 9.1.1.2	2Rx, 4Rx	Test execution not necessary if 9.6.1.1_A.3 is executed.
A.2			Rel-11	C125	UE supporti UTRA FDD 3DL with int	ng E- and ra-band ous and CA, or ra-band ous and	TBD	2Rx, 4Rx	Test execution not necessary if 9.6.1.1_A.3 is executed.
9.6.1.1_	FDD CQI Reporting u		Rel-11	C192	UE supporti UTRA FDD 4DL with int contiguous	ng E- and ra-band CA, or er-band with and CA (UE		2Rx, 4Rx	
A.3	AWGN conditions - P for CA (4DL CA)	UCCH 1-0	Rel-11	C193	UE supporti UTRA FDD 4DL with int non-contigu	ng E- and ra-band ous and CA, or ra-band ous and			
9.6.1.1_ A.4	FDD CQI Reporting u AWGN conditions - P for CA (5DL CA)		Rel-11	C192 a	UE supporti UTRA FDD 5DL with Int contiguous Inter-band (5DL with Int	ng E- and tra-band and CA or tra-band ous and CA or tra-band ous and		2Rx, 4Rx	

Clause	Title	Release	Ар	plicab	ility		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Config	urations ction		
			Rel-12	C193	UE support UTRA FDD 5DL Inter-b (UE Categorand>= ≥11)	and and CA ory 8			
9.6.1.2_ A.1	TDD CQI Reporting u AWGN conditions - P for CA (2DL CA)		Rel-10	C114	UE support UTRA TDD	ing E- and DL CA	Refer to 36.521 -1 9.1.1.2	2Rx, 4Rx	Test execution not necessary if 9.6.1.2_A.2 is executed.
9.6.1.2_	FDD CQI Reporting under AWGN conditions - PUCCH 1-0		Rel-10	C128	UE support UTRA TDD 3DL with in contiguous 3DL with in CA, or 3DL intra-band contiguous inter-band Category >	and tra-band CA, or ter-band with and CA (UE	Refer to 36.521 -1 9.1.1.2	2Rx, 4Rx	
A.2	AWGN conditions - P for CA (3 DL CA)	UCCH 1-0	Rel-11	C129	UE support UTRA TDD 3DL with in non-contiguinter-band 3DL with in non-contiguintra-band contiguous	ing E- and tra-band uous and CA, or tra-band uous and			
9.6.1.2_ A.3	TDD CQI Reporting u AWGN conditions - P 0 for CA (4 DL CA)		Rel-11	C270	Category > UE support UTRA TDD 4DL with in contiguous 4DL with in CA, or 4DL intra-band contiguous inter-band Category >	ing E- and tra-band CA, or ter-band with and CA (UE			
			Rel-11	C271	UE support UTRA TDD 4DL with in non-contigu	ing E- and tra-band uous and CA, or tra-band uous and			
9.6.1.2_ A.4	TDD CQI Reporting u AWGN conditions - P 0 for CA (5 DL CA)		Rel-11	C272	UE support UTRA TDD 5DL with in contiguous 5DL with in	ing E- and tra-band CA, or ter-band with and CA (UE			

Clause	Title	Release	Ар	plicabi	ility			Bands / A-	Branch	Additional Information
			Condition	1	Со	mments		ırations ction		
			Rel-11	C273	t r i i r r	JE supporti JTRA TDD 5DL with inter-band Co 5DL with inter-band contiguentra-band contiguous Category 8 and >=11)	ng E- and ra-band ous and CA, or ra-band ous and			
9.6.1.3.1	TDD FDD CA CQI Re under AWGN conditio PUCCH 1-0 for FDD I (2DL CA)	ns -	Rel-12	C132	! l	JE supporti JTRA FDD IDD and 2E with FDD as UE Catego	and DL CA s PCell	TBD	2Rx, 4Rx	
9.6.1.3.2	TDD FDD CA CQI Re under AWGN conditio PUCCH 1-0 for FDD I (3DL CA)	ns -	Rel-12	C133	3 1 1	JE supporti JTRA FDD TDD and 3E with FDD as UE Catego	and DL CA s PCell	TBD	2Rx, 4Rx	
9.6.1.3.3	TDD FDD CA CQI Re under AWGN condition PUCCH 1-0 for FDD F (4DL CA)	ns -	Rel-12	C133	} [JE supporti JTRA FDD IDD and 4E with FDD as UE Catego	ng E- and DL CA s PCell	TBD	2Rx, 4Rx	
9.6.1.3.4	TDD FDD CQI Report AWGN conditions – P 0 for FDD PCell (5DL	PUČCH 1-	Rel-12	C133	} \ \ \ \ \ \ \ \ \ \ \ \ \	JE supporti JTRA FDD IDD and 5E with FDD as UE Catego and Catego and onward	and DL CA S PCell ry 8, ry 11	TBD	2Rx, 4Rx	
9.6.1.4.1	TDD FDD CA CQI Re under AWGN condition PUCCH 1-0 for TDD F (2DL CA)	ns -	Rel-12	C134	 	JE supporti JTRA FDD TDD and 2E with TDD as UE Catego	ng E- and DL CA s PCell ry >= 3)	TBD	2Rx, 4Rx	
9.6.1.4.2	TDD FDD CA CQI Re under AWGN condition PUCCH 1-0 for TDD F (3DL CA)	ns -	Rel-12	C135	; l v (JE supporti JTRA FDD TDD and 3E with TDD as UE Catego	and DL CA S PCell ry >= 5)	TBD	2Rx, 4Rx	
9.6.1.4.3	TDD FDD CA CQI Re under AWGN condition PUCCH 1-0 for TDD F (4DL CA)	ns -	Rel-12	C135	; l v (JE supporti JTRA FDD TDD and 4E with TDD as UE Catego	and DL CA S PCell ry >= 8)	TBD	2Rx, 4Rx	
9.6.1.4.4	TDD FDD CQI Report AWGN conditions – P 0 for TDD PCell (5DL	PUČCH 1-	Rel-12	C133	} l	JE supporti JTRA FDD TDD and 50 with FDD as UE Catego and Catego and onward	and DL CA S PCell ry 8, ry 11	TBD	2Rx, 4Rx	

Clause	Title	Release	Арр	olicabilit	у	C		Branch	Additional Information
			Condition	(Comments		irations ction		
9.7.1.1	FDD and Half duplex reporting definition un AWGN conditions for category 0	der	Rel-12	C145	UE supporti UTRA FDD category 0)		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.7_1.1.1	FDD CQI reporting ur AWGN conditions – F 0 for UE category 1bis	PUCCH 1-	Rel-13	C145 d	UE supporti UTRA FDD category 1b	(ŬE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting		
9.7_1.1.2	TDD CQI reporting ur AWGN conditions - P for UE category 1bis		Rel-13	C156f	UE supporti UTRA TDD category 1b	(ŬE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting		
9.7_1.1.3	FDD CQI reporting ur fading conditions - PU for UE category 1bis		Rel-13	C145 d	UE supporti UTRA FDD category 1b	(ŬE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting		
9.7_1.1.4	TDD CQI reporting ur fading conditions - PU for UE category 1bis		Rel-13	C156f	UE supporti UTRA TDD category 1b	(ŬE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting		

Clause	Title	Release	Ар	plicabi	lity		Bands / A-	Branch	Additional Information
			Conditio	n	Comments		ırations ction		
9.7.1.2	TDD CQI reporting de under AWGN condition category 0	efinition ons for UE	Rel-12	C119	UE support UTRA TDD category 0)	ing E-			
9.7.2.1	FDD and Half duplex reporting definition un conditions for UE cate	der fading	Rel-12	C145	UE support UTRA FDD category 0)		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.7.2.2	TDD CQI reporting de under fading condition category 0		Rel-12	C156	UE support UTRA TDD category 0)		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.8.1.1	FDD and Half duplex reporting definition un AWGN conditions for category M1	ıder	Rel-13	C145 a	UE support UTRA FDD category M	and UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.8.1.2	TDD CQI reporting de under AWGN condition category M1	efinition ons for UE	Rel-13	C156	UE support UTRA TDD category M	and UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	1	Comments	Configu	urations ction		
9.8.2.1	FDD and Half-duplex selected subband CQ category M1		Rel-13	C145 a	UE supporti UTRA FDD category M ²	ng E- and UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.8.2.2	TDD UE-selected sub for UE category M1	band CQI	Rel-13	C156 a	UE supporti UTRA TDD category M ²	and UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.9.1.1.1	FDD CQI Reporting u AWGN conditions - Pl with Rank 1 1x4		Rel-10	C113 b	UE supporti UTRA FDD 4Rx antenn	with	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.9.1.1.2	TDD CQI Reporting u AWGN conditions - Pl with Rank 1 1x4		Rel-10	C177	UE supporti UTRA TDD 4Rx antenn	with	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Арі	plicabilit	у		Bands / A-	Branch	Additional Information
			Condition	. (Comments	Configu	ırations ction		
9.9.1.2.1	FDD CQI Reporting u AWGN conditions - P with rank 2 4x4		Rel-10	C178	UE supporti UTRA FDD eDL-MIMO Feature Gro Indicator 10 4Rx antenn (UE Catego	ing E- and and oup 3 with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.9.1.2.2	TDD CQI Reporting u AWGN conditions - Pi with rank 2 8x4		Rel-10	C179	UE supporti UTRA TDD eDL-MIMO Feature Gro Indicator 10 4Rx antenn (UE Catego	and and oup 04 with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.9.1.3.1	FDD CQI Reporting u AWGN conditions - P with rank 4 4x4		Rel-10	C180	UE supporti UTRA FDD 4Rx antenn and 4-layer multiplexing Category >:	with a ports spatial (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.9.1.3.2	TDD CQI Reporting u AWGN conditions - Pi with rank 4 4x4	inder UCCH 1-1	Rel-10	C181	UE supporti UTRA TDD 4Rx antenn and 4-layer multiplexing Category >:	with a ports spatial (UE	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Ар	plicabili	у		Bands / A-	Branch	Additional Information
			Condition	n (Comments	Configu	urations ction		
9.9.1.4.1	FDD CQI Reporting u AWGN conditions - P with rank 3 4x4		Rel-10	C182	UE supporti UTRA FDD eDL-MIMO Feature Gro Indicator 10 4Rx antenn (UE Catego	and and oup 3 with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.9.1.4.2	TDD CQI Reporting u AWGN conditions - P with rank 3 4x4		Rel-10	C183	UE supporti UTRA TDD Feature Gro Indicator 10 4Rx antenn (UE Catego	and oup 3 with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
9.9.2.1.1	FDD CQI Reporting u fading conditions - PU - Enhanced Performa Requirement Type A	JCCH 1-0 nce	Rel-11	C197	UE supporti UTRA FDD 4Rx antenn and the enh performano requirement A for LTE	with a ports anced e	Each" Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		
9.9.2.1.2	TDD CQI Reporting u fading conditions - PU - Enhanced Performa Requirement Type A	JCCH 1-0 nce	Rel-11	C198	UE supporti UTRA TDD 4Rx antenn and the enh performanc requirement A for LTE	with a ports anced e	Each" Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		

Clause	Title	Release	Арј	plicabili	ty	С	Bands / A-	Branch	Additional Information
			Condition	1	Comments		urations ction		
9.9.2.2.1	FDD CQI Reporting u fading conditions - PU - Enhanced Performa Requirement Type A2	JCCH 1-1 ince	Rel-11	C199	UE supporti UTRA FDD 4Rx antennand the enh performance requirement A for LTE (UCategory >= Feature Groundicator 10	ing E- with a ports anced e ts type JE = 2) and bup	Each" Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		
9.9.2.2.2	TDD CQI Reporting u fading conditions - PU - Enhanced Performa Requirement Type A2	JCCH 1-1 ince	Rel-11	C200	UE supporti UTRA TDD 4Rx antennand the enh performance requirement A for LTE (U Category >= Feature Gro Indicator 10	with a ports canced e ts type JE = 2) and bup	Each" Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		
9.9.3.1.1	TDD PMI Reporting - 3-1 (Single PMI) 8x4	PUSCH	Rel-10	C179	UE supporti UTRA TDD eDL-MIMO Feature Gro Indicator 10 4Rx antenna (UE Catego	and and oup 4 with a ports	Each" Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		

Clause	Title	Release	Apı	plicabili	ty		Bands / A-	Branch	Additional Information
			Condition	1 (Comments	Configu	irations ction		
9.9.4.1.1	FDD RI Reporting- PU 4x4	JCCH 1-1	Rel-10	C203	UE support UTRA FDD 4Rx antenn (UE Catego	ing E- with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		
9.9.4.1.2	TDD RI Reporting- PU 4x4	JSCH 3-1	Rel-10	C204	UE supporti UTRA TDD 4Rx antenn (UE Catego	with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		
9.9.4.2.1	FDD RI Reporting- PU for eDL-MIMO 4x4	JCCH 1-1	Rel-10	C205	UE supporti UTRA FDD eDL-MIMO Feature Gro Indicator 10 4Rx antenn (UE Catego	and and oup 3 with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		

Clause	Title	Release	Арј	plicabilit	у		Bands / A-	Branch	Additional Information
			Condition				urations ction		
9.9.4.2.2	TDD RI Reporting- PU for eDL-MIMO 4x4	JCCH 1-1	Rel-10	C206	UE support UTRA TDD eDL-MIMO Feature Gro Indicator 10 4Rx antenn (UE Catego	ing E- and and oup 13 with a ports	Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW and 4Rx antenn a ports		
				MBMS	Performano	e Testing	1	· · · · · · · · · · · · · · · · · · ·	
10.1	FDD MBMS performa (Fixed Reference Cha		Rel-9	C03	UE suppor UTRA FDE MBMS		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
10.1_1	FDD MBMS performance (Fixed Reference Channel) (Release 13 and forward)		Rel-13	C03	UE suppor UTRA FDD MBMS	ting E- and	Perfor med once		
10.2	TDD MBMS performa (Fixed Reference Cha	nce	Rel-9	C04	UE suppor UTRA TDD MBMS		Each "Test Numbe r" to be perfor med once, in a chosen band suppor ting tested BW		
10.2_1	TDD MBMS performance (Fixed Reference Channel) (Release 13 and forward)		Rel-13	C04	UE suppor UTRA TDD MBMS	and	Perfor med once		
	Domodulation of DCC	CH / Nais	V2X Sidelink F				I		
14.2	Demodulation of PSS concurrent with E-UTF transmissions	RA uplink	Rel-14	C31 3	UE suppor Sidelink communica	ation			
14.3	Demodulation of PSC concurrent with E-UTF transmissions	RA uplink	Rel-14	C31 3	UE suppor Sidelink communica	-			
14.4	Power imbalance perf with two links / Non-co with E-UTRA uplink transmissions		Rel-14	C31	UE suppor Sidelink communica	-			

Clause	Title	Release	Applicability		Tested Bands / CA-		Branch	Additional Information		
			Condition		С	omments	_	urations ction		
14.8	PSCCH/PSSCH deco capability test / Non-c with E-UTRA uplink transmissions		Rel-14	C3.	2	UE suppor Sidelink communica	· ·			
Note 1:	Due to UE capability si with a Rel-12 UE.	gnalling for	UL 64QAM is intr	rodu	ced	from Rel-12	, this test	case can	optionally b	e executed
Note 2:	For a transition period until RAN5#72, this condition in version 13.0.0 of 36.521-2 shall be used. This is to ensure no test coverage is lost before the UL 64QAM test case becomes available. $N-1$									
Note 3:	Equivalent aggregated	handwidth	is defined as: R	_			ara N is	number of	fcc R	$= \{24\}$ and

Note 3: Equivalent aggregated bandwidth is defined as: $B_{agg} = \sum_{i=0}^{N-1} R_i B_i$. Where N is number of CCs, $R_i \in \{2,4\}$ and

 $B_i \in \{5,\!10,\!15,\!20\} \text{ is MIMO layer and bandwidth of CC } i. \text{ The number of MIMO layer for CC } i \text{ in each CA configuration is according to Table A.4.6.1-3, Table A.4.6.2-3, Table A.4.6.3-3, Table A.4.6.3-4 or Table A.4.6.3-5.}$

Table 4.1-1a: Applicability of RF conformance test cases Conditions

C01	IF NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 THEN R ELSE N/A
C01h	IF (A.4.1-1/1 AND A.4.5-1/18) THEN R ELSE N/A
C02	IF NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 THEN R ELSE N/A
C02h	IF (A.4.1-1/2 AND A.4.5-1/18) THEN R ELSE N/A
C03	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.2-1/1) THEN R ELSE N/A
C04	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.2-1/1) THEN R ELSE N/A
C05	Void
C06	Void
C07	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3b/2 AND A.4.2-1/3) THEN R
	ELSE N/A
C08	Void
C09	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.3-3a/1) THEN R ELSE N/A
C10	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.3-3a/1) THEN R ELSE N/A
C11	IF A.4.1-1/1 AND A.4.3-3a/6 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5) THEN R ELSE N/A
C12	IF A.4.1-1/2 AND A.4.3-3a/6 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5) THEN R ELSE N/A
C13	IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.4.3-4/8)) THEN R ELSE N/A
C13a	IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5)) THEN R ELSE N/A
C13b	IF ((A.4.1-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C14	IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.4.3-4/8)) THEN R ELSE N/A
C14a	IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5)) THEN R ELSE N/A
C14b	IF ((A.4.1-1/2) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
0140	
	A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C15	IF (A.4.1-1/1 AND A.4.3-4/1) THEN R ELSE N/A
C16	IF (A.4.1-1/2 AND A.4.3-4/1) THEN R ELSE N/A
C17	Void
C18	Void
C19	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2) THEN
Cis	
0.10	R ELSE N/A
C19a	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/3 AND A.4.6.1-2/3) THEN
	R ELSE N/A
C19h	R ELSE N/A
C19h	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A
C19h C20	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND
C20	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A
C20 C20h	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A
C20 C20h C21	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A
C20 C20h	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A
C20 C20h C21 C21h	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A
C20 C20h C21 C21h C22	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A
C20h C20h C21 C21h C22 C23	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void
C20 C20h C21 C21h C22 C23 C24	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25 C25a	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3b/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3b/103) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25 C25a	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3b/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/1) OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.3-1/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6-3-1/13) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.3-1/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A
C20h C21h C21h C22 C23 C24 C25 C25a C25h C25x	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.6-1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6-1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/3 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3b/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/3 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C25y	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C25y C26 C26 C26 C27	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((OT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/1) OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.3-4a/1) AND A.4.6.3-1/1) AND A.4.6.1-1/2) THEN R ELSE N/A IF ((A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF ((A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.3-1/3) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/1 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 ON
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C27 C26	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3b/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/1 OR A.4.3-4/3 OR A.4.3-4/1 OR A.4.3-4/3 OR A.4.3-4/1 OR A.4.3-4/3 OR A.4.3
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C25y C26 C26 C26 C27	R ÉLSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.3-4/8 OR A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C27 C26	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.3-1/13) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/3 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C27 C26	R ÉLSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND (A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C26 C26 C26 C27 C28 C28y	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.3-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/3 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C26 C26 C26 C27 C28 C29	R ÉLSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C26h C27 C28 C28 C29 C30	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/2 OR A.4.3-4/3 OR A.
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C26h C27 C28 C28 C29 C30 C31	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.4-3a/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3b/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3b/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3b/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3b/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3a/104) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C26h C27 C28 C28 C29 C30 C31 C32	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-4/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.3-4aa/1) AND A.4.3-1/1 AND A.4.5-1/18 THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/20 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C25y C26 C26h C27 C28 C28 C29 C30 C31 C32 C32	R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1) OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.5-3/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104) THEN R ELS
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C26 C26h C27 C28 C28 C29 C30 C31 C32	R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-4/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.3-4aa/1) AND A.4.3-1/1 AND A.4.5-1/18 THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3a/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/20 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C25y C26 C26h C27 C28 C28 C29 C30 C31 C32 C33 C34	R ÉLSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND A.4.6.3-1/1) AND (A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND A.4.6.3-1/1) AND A.4.5-1/18 THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.3-4a/1) AND A.4.6.3-1/1) AND A.4.6.1-1/2) THEN R ELSE N/A IF ((A.4.3-4a/1) OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.1-1/2) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1) AND A.4.6-1-1/2) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.6-13b/103) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND A.4.1-1
C20 C20h C21 C21h C22 C23 C24 C25 C25a C25h C25x C25y C26 C26h C27 C28 C28 C29 C30 C31 C32 C32	R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/18) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND NOT A.4.6.1-2/2) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((A.4.1-1/1) OR A.4.1-1/2) AND (A.4.6.1-1/1) OR A.4.6.1-1/2) AND A.4.5-1/18) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1) OR A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A IF ((NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.6.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.5-3/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.3-3b/103) AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104)) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2) AND A.4.4-3ab/104) THEN R ELS

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C37	IF NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.4-1b/1 THEN R ELSE N/A
C38	IF NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.4-1b/2 THEN R ELSE N/A
C39	IF(NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-3b/1 OR A.4.3-3b/4)) THEN
	R ELSE N/A
C40	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.4-3a/103 AND A.4.3-7/1) THEN R ELSE N/A
C41	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.4-3b/103 AND A.4.3-7/1) THEN R ELSE N/A
C42	IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C42h	IF ((A.4.1-1/1) AND (A.4.3-4/6 OR A.4.3-4/7) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A
C43	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND NOT A.4.6.2-2/1)
	THEN R ELSE N/A
C43h	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND NOT A.4.6.2-2/1 AND A.4.5-1/18) THEN R ELSE N/A
C44	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.3-7/1) THEN R ELSE N/A
C44z	
C442	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.3-7/1 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/2 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/2 OR A.4.3-4/2 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/2 OR A.
	4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND A.4.4-3a/103) THEN R ELSE N/A
C45	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.3-7/1) THEN R ELSE N/A
C45i	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.3-7/1 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-
	4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND A.4.4-3b/103) THEN R ELSE N/A
C46	Void
C47	Void
C48	Void
C49	Void
C50	IF (A.4.1-1/1 AND A.4.5-1/8 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR
	A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C50a	IF (A.4.1-1/1 AND A.4.5-1/8) THEN R ELSE N/A
C51	IF (A.4.1-1/2 AND A.4.5-1/8 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR
	A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C51a	IF (A.4.1-1/2 AND A.4.5-1/8) THEN R ELSE N/A
C52	IF (A.4.1-1/1 AND (A.4.5-1/11 OR A.4.5-1/12) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR
C32	
0.00	A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C53	IF (A.4.1-1/2 AND (A.4.5-1/11 OR A.4.5-1/12) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR
	A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C54	IF (A.4.1-1/2 AND (A.4.3-4/1 OR A.4.3-4/2)) THEN R ELSE N/A
C55	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.2-1/6) THEN R ELSE N/A
C56	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.2-1/6) THEN R ELSE N/A
C57	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.2-1/6 AND (A.4.5-1/11 OR A.4.5-1/12)) THEN
007	R ELSE N/A
C58	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.2-1/6 AND (A.4.5-1/11 OR A.4.5-1/12)) THEN
C36	
050	R ELSE N/A
C59	Void
C60	Void
C61	Void
C62	void
C63	void
C64	Void
C65	Void
C66	Void
C67	Void
C68	Void
C69	
	void
C70	
	void
C71	void void Void
C71 C72	void void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C71 C72 C73	void void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A
C71 C72 C73 C73h	void void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A
C71 C72 C73	void Void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR
C71 C72 C73 C73h C74	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A
C71 C72 C73 C73h	void void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/11 OR A.4.3-4/11 OR A.4
C71 C72 C73 C73h C74	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A
C71 C72 C73 C73h C74	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A
C71 C72 C73 C73h C74	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR
C71 C72 C73 C73h C74 C74h	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A
C71 C72 C73 C73h C74	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE
C71 C72 C73 C73h C74 C74h C75	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A
C71 C72 C73 C73h C74 C74h	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR
C71 C72 C73 C73h C74 C74h C75 C76	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C71 C72 C73 C73h C74 C74h C75	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.5-2/1 AND A.4.5-2/2 AND A.4.4-3b/115 AND (A.4.3-4/2 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4
C71 C72 C73 C73h C74 C74h C75 C76	void Void IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.3-4/6 OR A.4.3-4/7)) THEN R ELSE N/A IF ((A.4.1-1/2) AND A.4.5-1/18 AND A.4.3-4a/8) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A

IF (NOTIA 3.4-467 OR A.4.3-4667) AND A.4.1-1/2 AND A.4.5-2/1 AND A.4.5-2/2 AND A.4.4-3b/115) THEIR RELSE NA		
R ÉLSE N/A Void 182	C79	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115) THEN R ELSE N/A
	C80	
Void	C81	
F ((A.4.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7) AND (A.4.6.3-1/1)) THEN R ELSE NA		
NA Void S65 Void S67 Void S68 Void S69 F (NA.1-11/1 AND (A.4.6.2-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) THEN R ELSE N/A S69 FF (NOTI(A.4.3-4/2) OR A.4.3-4/3 JAND A.4.1-1/1 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A BF (NOTI(A.4.3-4/2) OR A.4.3-4/3 JAND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3a/103 THEN R ELSE N/A BF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.1-1/2 AND A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/10 JTHEN R ELSE N/A BF (A.4.1-1/1 AND A.4.5-1/17) THEN R ELSE N/A BF (A.4.1-1/1 AND A.4.5-1/17) THEN R ELSE N/A BF (A.4.1-1/12 AND A.4.5-1/17) THEN R ELSE N/A BF (A.4.1-1/14 AND A.4.5-1/17	C83	
Void	000	
Void	C84	void
988 Void 990 IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A 991 IF ((NGT)(A.4.3-4/3 OR A.4.3-4/3 A)) THEN R ELSE N/A 992 IF (NOTI(A.4.3-4/3 OR A.4.3-4/3 A)) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A 993 IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.1-1/2 AND A.4.2-1/6 AND A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A 994 Void 995 void 996 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 997 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 998 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 999 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 999 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 990 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 991 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 992 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 993 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 994 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 995 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 996 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 997 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 998 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 999 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 990 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 991 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 992 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 993 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 994 IF (A.4.1-1/1 AND A.4.5-1/11) AND (A.4.3-1/10 OR A.4.3-1/10 OR A.4.3-	C85	Void
Note	C86	1414
Void	C87	
F ((A.4.1-11) AND (A.4.6.2-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OF A.4.3-4/7 OR A.4.3-4/8) THEN R ELSE N/A F (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A F (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A F (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A F (NOT(A.4.3-4a/1 OR A.4.3-4a/1) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A Void Void Void F (A.4.1-1/1) AND A.4.5-1/11) THEN R ELSE N/A F (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A F (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A F (A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/3 OR A.4.3-4/10 OR A.3	C88	
A.4.3-47 OR A.4.3-4/8) THEN R ELSE N/A JEF (NOTI, A.3-4-3-47 OR A.4.3-43-347) AND A.4.1-1/1 AND A.4.2-1/6 AND A.4.4-3a/103) THEN R ELSE N/A JEF (NOTI, A.3-4-3-47 OR A.3-3-43-347) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.4-3b/103) THEN R ELSE N/A JEF (NOTI, A.3-4-3-47 OR A.4.3-4-3-47) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A JOID JOIN JOID JOIN JOID JOIN JOIN JOIN JOIN JOID JOIN		
IF (NOT(IA.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.2-1/6 AND A.4.3-b/103) THEN R ELSE N/A SIR (I.4.1-1/1) AND (NOT A.4.3-1/18) AND (I.4.6.2-1/1) AND (I.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A Void		A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
187 (1.4.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A 198 Void 199 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 199 IF (A.4.1-1/1 AND A.4.5-1/12) THEN R ELSE N/A 199 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 199 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 199 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 190 IF (N.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 191 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 192 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 193 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 194 IF (N.0T(A.4.3-4a/1 OR A.4.3-4a/2/1) AND (A.4.1-1/12) AND A.4.5-1/13) THEN R ELSE N/A 195 IF (A.4.1-1/2) AND (A.4.5-1/10) OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) 195 IF (A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/10 OR A.3-4/10		
A 43-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THÈN R ELSE N/A yold		
935 Void 936 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 937 IF (A.4.1-1/1 AND A.4.5-1/12) THEN R ELSE N/A 938 IF (A.4.1-1/1 AND A.4.5-1/11) THEN R ELSE N/A 939 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 939 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 930 IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A 1000 IF (NOT(A.4.3-44)/ OR A.4.3-436)/1 AND (A.4.1-1/10 OR A.4.1-1/2) AND (A.4.3-4/10 OR A.4.3-4/3) OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/19 OR A.4.3-4/10 O		A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THÈN R ELSE N/A
IF (A.4.1-1/1 AND A.4.5-1/12) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A IF (A.4.1-1/2) AND (A.4.6.1-1/10 OR A.4.6.1-1/10 OR A.4.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/10 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/3 OR A.3-4/3 OR A.4.3-4/3 OR A.3-4/3	C94	
IF (A.4.1-1/1 AND A.4.5-1/12) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A IF (N.4.1-1/2) AND (A.4.5-1/10) OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.6.1-1/10 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.6.1-1/10 OR A.4.6.1-1/10 OR A.4.6.1-1/10 OR A.4.3-4/10 OR A.3-4/10 OR A.3-4/10 OR A.3-4/10 OR A.4.3-4/10		
IF (A.4.1-1/2 AND A.4.5-1/11) THEN R ELSE N/A		
IF (A.4.1-1/2 AND A.4.5-1/12) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/13) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/1 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/5 OR A.4.3-4/8 OR A.4.3-4/5 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8	C98	
IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/13) THEN R ELSE N/A	C99	
THE ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 or A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-1/11 AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/3) THEN RELSE N/A THE ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) THEN RELSE N/A THE ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) THEN RELSE N/A THE ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN RELSE N/A THE ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) THEN RELSE N/A THE ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN RELSE N/A THE ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.6.3-1/1) AND (A.4.6.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) THEN RELSE N/A THEN RELSE N/A	C100	
A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OF A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/3 OR A.4.3-4/10)) THEN R ELSE N/A 2107 IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) THEN R ELSE N/A 2108 IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/10)) THEN R ELSE N/A 2109 IF (A.4.1-1/2 AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/4 O	C101	
Fr ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/2 OR A.4.3-4/3		
OR A. 4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OF A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/11 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/11 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/8)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4/3 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4/3 OR A.4.3-4/3	2122	
A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OF A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/3) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/3 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/1 OR A.4.3-4/8) IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/8) IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/8) IF ((A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4/3-1) THEN R ELSE N/A IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4/3-1) THEN R ELSE N/A IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4/3-1) THEN R ELSE N/A IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4/3-1) THEN R ELSE N/A IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4/3-1) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4/3/10) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/10) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/10) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/10) THEN R ELSE N/A	C102	
F ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OF A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/1 OR A.4.3-4/1 OR A.4.3-4/1 OR A.4.3-4/1 OR A.4.3-4/1 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A		
A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/1 OR A.4.3-4/1) IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4) OR A.4.3-4/8) IF ((A.4.1-1/1) AND (A.4.3-4/5 OR A.4.3-4/6) THEN R ELSE N/A IF ((A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-44/1) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4/10) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4/10) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4/10) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5	C103	
F ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A		
F ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/	C104	IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R
F ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A	C105	
IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/8)) THEN R ELSE N/A IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) AND A.4.3-3-4a/1 OR A.4.3-4a/10) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.5-1/37) AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE	C106	
C107h IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4/8)) THEN R ELSE N/A C108 IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A C109 IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A C110 IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A C111 IF A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112a IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112b IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4a/2) THEN R ELSE N/A C113c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/2) THEN R ELSE N/A C113c IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A	C107	IF ((A.4.1-1/1) AND (NOT A.4.5-1/18) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR
IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A C110 IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A C111 IF (A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112a IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112b IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 THEN R ELSE N/A C112c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 AND A.4.3-4aa/2) THEN R ELSE N/A C113c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113c IF ((A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C107h	IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-
OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A C109 IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.2-1/1 OR A.4.6.3-1/1)) THEN R ELSE N/A C110 IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A C111 IF A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELS N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C113 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A C113 IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3a/103) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/2) THEN R ELSE N/A C114 IF (A.4.1-1/2) AND A.4.6-1/2) AND A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C108	
THÈN R ELSE N/A C110 IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8) AND (A.4.6.1-1/1 OR A.4.6.1-1/2)) THEN R ELSE N/A C111 IF A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4aa/1 OR A.4.3-4aa/2) THEN R ELSE N/A C113 IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113 IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C114 IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A		OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
THEN R ELSE N/A C111 IF A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4) THEN R ELSE N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112a IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112b IF ((A.4.1-1/8 AND A.4.3-4 c/1) THEN R ELSE N/A C112c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1a) THEN R ELSE N/A C112d IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A C113 IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113a IF (A.4.5-1/22) THEN R ELSE N/A C113b IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A		THEN R ELSE N/A
N/A C112 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1) THEN R ELSE N/A C112a IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112b IF ((A.4.1-1/8 AND A.4.3-4 c/1) THEN R ELSE N/A C112c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1a) THEN R ELSE N/A C112d IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A C113d IF ((A.4.1-1/1 OR A.4.1-1/2) AND NOT((A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113a IF (A.4.5-1/22) THEN R ELSE N/A C113b IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/2 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/2 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/2 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/2 AND A.4.5-1/37 AND A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A		THEN R ELSE N/A
IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1) THEN R ELSE N/A C112b IF ((A.4.1-1/8 AND A.4.3-4 c/1) THEN R ELSE N/A C112c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1a) THEN R ELSE N/A C112d IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A C113 IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4aa/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113a IF (A.4.5-1/22) THEN R ELSE N/A C113b IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113e IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A		N/A
C112b IF (A.4.1-1/8 AND A.4.3-4 c/1) THEN R ELSE N/A C112c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1a) THEN R ELSE N/A C112d IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A C113 IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113a IF (A.4.5-1/22) THEN R ELSE N/A C113b IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113e IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3a/103) THEN R ELSE N/A C113h IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C112	
C112c IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4a/1a) THEN R ELSE N/A C112d IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A C113 IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C113a IF (A.4.5-1/22) THEN R ELSE N/A C113b IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113e IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A		
IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-4aa/1 AND A.4.3-4aa/2) THEN R ELSE N/A IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A IF (A.4.5-1/22) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-3/103) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3/103) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3/103) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.3-3/103) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A		
IF (A.4.1-1/1 OR A.4.1-1/2) AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A IF (A.4.5-1/22) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A		
C113a IF (A.4.5-1/22) THEN R ELSE N/A C113b IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113e IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.5-1/18) THEN R ELSE N/A C114 IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C1120	
C113b IF (A.4.1-1/1 AND A.4.5-1/37) THEN R ELSE N/A C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113e IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.5-1/18) THEN R ELSE N/A C114 IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C113a	
C113c IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A C113d IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1) THEN R ELSE N/A C113e IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.5-1/18) THEN R ELSE N/A C114 IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C113b	
C113e IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103) THEN R ELSE N/A C113h IF (A.4.5-1/18) THEN R ELSE N/A C114 IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C113c	IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.4-3a/103) THEN R ELSE N/A
C113h IF (A.4.5-1/18) THEN R ELSE N/A C114 IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C113d	
C114 IF (A.4.1-1/2 AND A.4.6.1-1/2) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C113e	
A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A	C113h	
C115 IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1) THEN R ELSE N/A		A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A
	C115	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1) THEN R ELSE N/A

C116	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 AND A.4.6.3-2/1) THEN R ELSE N/A
C116a	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 AND A.4.6.3-2/1) THEN R ELSE N/A
C117	IF (A.4.1-1/1 AND (A.4.5-1/8 OR A.4.5-1/11 OR A.4.5-1/12) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C118	IF (A.4.1-1/2 AND (A.4.5-1/8 OR A.4.5-1/11 OR A.4.5-1/12) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8)) THEN R ELSE N/A
C119	IF A.4.1-1/2 AND A.4.3-4a/1 THEN R ELSE N/A
C120	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/5) THEN R ELSE N/A
C121	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A
C122	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A
C122h	IF ((A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4 OR A.4.6.3-1/2 OR A.4.6.2-1/2)) AND A.4.5-1/18 THEN R ELSE N/A
C123	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2) THEN R ELSE N/A
C124	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C125	IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C126	IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C126a	IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/6 OR A.4.3-4/7) AND A.4.3-3a/9) THEN R ELSE N/A
C126h	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/10)) THEN R ELSE N/A
C126ha	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.5-1/18 AND (A.4.3-4a/8) AND A.4.3-3a/9) THEN R ELSE N/A
C127	IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C127a	IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/6 OR A.4.3-4/7) AND A.4.3-3a/9) THEN R ELSE N/A
C128	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C129	IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C130	IF (A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C130h	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/10)) THEN R ELSE N/A
C131	IF (A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C132	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C133	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C133a	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C133b	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C134	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C135	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C135a	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C135b	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C136	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C137	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.3-4/3 OR A.4.3-4/4)) THEN R ELSE N/A
C138	IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (NOT A.4.5-1/18) AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A
C138h	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/10)) THEN R ELSE N/A

C139	IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND (NOT A.4.5-1/18) AND (A.4.3-4/9 OR
C139a	A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15 AND (NOT A.4.5-1/18) AND (A.4.3-4/11 OR
C133a	A.4.3-4/12)) THEN R ELSE N/A
C139b	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15 AND (NOT A.4.5-1/18) AND A.4.3-4a/10) THEN R ELSE N/A
C139h	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/10)) THEN R ELSE N/A
C139ha	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15 AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-
C139hb	4/12 OR A.4.3-4a/10)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15 AND A.4.5-1/18 AND (A.4.3-4a/11)) THEN R
C140	ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (NOT A.4.5-1/18) AND (A.4.3-4/3 OR
C140h	A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-
C141	4/12 OR A.4.3-4a/8)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND (NOT A.4.5-1/18) AND (A.4.3-4/9 OR
C141	A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A
C141a	IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14 AND (NOT A.4.5-1/18) AND (A.4.3-4/11 OR
C141b	A.4.3-4/12) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14 AND (NOT A.4.5-1/18) AND A.4.3-4a/10 THEN R ELSE N/A)
C141h	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND A.4.5-1/18 AND (A.4.3-4/11 OR A.4.3-
C1 12	4/12 OR A.4.3-4a/10)) THEN R ELSE N/A
C142	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.3-7/3) THEN R ELSE N/A
C143 C144	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.3-7/3) THEN R ELSE N/A IF (NOT(A.4.3-4/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.3-7/3 AND A.4.4-3a/103) THEN
C144	R ELSE N/A
C145	IF A.4.1-1/1 AND A.4.3-4a/1 THEN R ELSE N/A
C145a	IF A.4.1-1/1 AND A.4.3-4aa/1 THEN R ELSE N/A
C145b	IF A.4.1-1/1 AND (A.4.3-4aa/1 OR A.4.5-1/25) THEN R ELSE N/A
C145c	Void
C145d	IF A.4.1-1/1 AND A.4.3-4a/1a THEN R ELSE N/A
C145e	IF A.4.1-1/1 AND A.4.3-4aa/1 AND A.4.5-1/63 THEN R ELSE N/A
C145x	IF A.4.1-1/1 AND A.4.3-4aa/2 AND A.4.5-1/63 THEN R ELSE N/A
C145y	IF A.4.1-1/1 AND A.4.3-4aa/1 AND A.4.5-1/51 THEN R ELSE N/A
C145z	IF A.4.1-1/1 AND A.4.3-4aa/2 AND A.4.5-1/51 THEN R ELSE N/A
C146	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/1) THEN R ELSE N/A
C147	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/17) THEN R ELSE N/A
C148	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND A.4.5-1/17) THEN R ELSE N/A
C149	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.5-1/13 AND A.4.5-1/17) THEN R ELSE N/A
C150	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.3-7/4) THEN R ELSE N/A
C151	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.3-7/4) THEN R ELSE N/A
C152	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/1 AND A.4.3-7/4) THEN R ELSE N/A
C153	IF (NOT(A.4.3-4/1 OR A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.3-7/4) THEN R ELSE N/A
C154	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C155	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C156	IF A.4.1-1/2 AND A.4.3-4a/1 THEN R ELSE N/A
C156a	IF A.4.1-1/2 AND A.4.3-4aa/1 THEN R ELSE N/A
C156b	IF A.4.1-1/2 AND (A.4.3-4aa/1 OR A.4.5-1/25) THEN R ELSE N/A
C156c	IF A.4.1-1/1 AND (A.4.3-4aa/1 AND A.4.5-1/26 THEN R ELSE N/A
C156d	IF A.4.1-1/2 AND (A.4.3-4aa/1 AND A.4.5-1/26 THEN R ELSE N/A
C156e	IF A.4.1-1/2 AND (A.4.3-4aa/1 OR A.4.5-1/25) AND A.4.5-1/51 THEN R ELSE N/A
C156f	IF A.4.1-1/2 AND A.4.3-4a/1a THEN R ELSE N/A
C156x	IF A.4.1-1/2 AND (A.4.3-4aa/1 OR A.4.5-1/25) AND A.4.5-1/63 THEN R ELSE N/A
C157	IF A.4.1-1/1 AND A.4.3-4a/1 AND A.4.4-3a/103 THEN R ELSE N/A
C157a	IF A.4.1-1/1 AND A.4.3-4a/1a AND A.4.4-3a/103 THEN R ELSE N/A
C158	IF A.4.1-1/2 AND A.4.3-4a/1 AND A.4.4-3b/103 THEN R ELSE N/A
C158a	IF A.4.1-1/2 AND A.4.3-4a/1a AND A.4.4-3b/103 THEN R ELSE N/A
C159	IF (NOT(A.4.3-4a/1 OR A.4.5-1/17 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/13) THEN R ELSE N/A
C160	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 AND A.4.6.3-2/1 AND
0.00	A.4.5-1/17) THEN R ELSE N/A

C167 IF (NOT(A.4.3-44)/ OR A.4.3-449/1) AND A.4.2-1/6 AND A.4.3-4/10 AND A.4.4-3-4/10 AND A.4.5-1/38) THEN R ELSE NA C169 IF A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3) THEN R ELSE NA C170 IF A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3) THEN R ELSE NA C171 IF A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3) OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/9 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/9 OR A.4.3-4/3 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A C173 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C174 IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C175 IF (NOT(A.4.3-447)) AND A.4.1-1/2 AND A.4.5-1/12 AND A.3.7-1/4 THEN R ELSE N/A C176 IF (NOT(A.3-447)) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.3-3/4) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C179 IF (A.4.3-3/4) AND A.4.1-1/2 AND A.4.3-1/12 AND A.4.3-7/4) THEN R ELSE N/A C179 IF (A.4.3-3/4) AND A.4.1-1/2 AND A.4.3-1/12 AND A.4.3-1/10 THEN R ELSE N/A C179 IF (A.4.3-3/4) AND A.4.5-1/3 AND A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.3-3/4) AND A.4.5-1/3 AND A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.3-3/4) AND A.4.5-1/3 AND A.4.3-4/2 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.3-3/4) AND A.4.5-1/3 AND A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.3-3/4) AND A.4.5-1/3 AND A.4.5-1/3 AND A.4.3-4/3 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.3-3/12) AND A.4.5-1/3 AND (A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.3-1/12) AND A.4.5-1/3 AND (A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C187 IF (A.4.3-1/12) AND A.4.5-1/3 AND (A.4.3-4/3 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/	C162 IF A C163 IF A C164 IF (N C165 IF (N C166 IF (N C167 IF (N C168 IF (A C169 IF A C170 IF A THE C171 IF A 4/10 C172 IF A C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A C177 IF (A C177 IF (A C177 IF (A C178 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.5-1/23 THEN R ELSE N/A A.4.5-1/24 THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/1 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/1 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A
C163 IF A.4.5-1/23 THEN R ELSE N/A C164 IF (NOTIA.4.3-46)* OR A.3.3-480*(1) AND A.4.2-1/6 AND A.4.5-1/37)* THEN R ELSE N/A C165 IF (NOTIA.4.3-46)* OR A.3.3-480*(1) AND A.4.2-1/6 AND A.4.5-1/38)* THEN R ELSE N/A C166 IF (NOTIA.4.3-46)* OR A.3.3-480*(1) AND A.4.2-1/6 AND A.4.5-1/38)* THEN R ELSE N/A C166 IF (NOTIA.4.3-46)* OR A.3.3-480*(1) AND A.4.2-1/6 AND A.4.3-3/103 AND A.4.5-1/39)* THEN R ELSE C167 IF (NOTIA.4.3-46)* OR A.3.3-480*(1) AND A.4.2-1/6 AND A.4.3-3/103 AND A.4.5-1/39)* THEN R ELSE C168 IF (A.4.5-1/22 AND NOT A.4.5-1/18)* THEN ELSE N/A C169 IF A.4-1-1/1 AND A.2-1/18 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3	C162 IF A C163 IF A C164 IF (N C165 IF (N C166 IF (N C167 IF (N C168 IF (A C169 IF A C170 IF A THE C171 IF A 4/10 C172 IF A C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A C178 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.5-1/23 THEN R ELSE N/A A.4.5-1/24 THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/7 OR A.4.3-4/7 OR A.4.3-4/7 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18 THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A
C1632 F.A.4.5-1/23 THEN R ELSE N/A	C162 IF A C163 IF A C164 IF (N C165 IF (N C166 IF (N C167 IF (N C168 IF (A C169 IF A C170 IF A THE C171 IF A 4/10 C172 IF A C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A C178 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.5-1/23 THEN R ELSE N/A A.4.5-1/24 THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/7 OR A.4.3-4/7 OR A.4.3-4/7 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18 THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A
C164	C163	A.4.5-1/24 THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/3 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A
C164	C164 IF (NC C165 IF (NC C165 IF (NC C166 IF (NC C167 IF (NC C169 IF AC C170 IF AC C170 IF AC C171 IF (NC C171 IF	NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/1 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A
C169	C165 IF (NC C166 IF (NC C167 IF (NC C168 IF (NC C169 IF AC C170 IF AC C171 IF AC C171 IF AC C172 IF AC C173 IF AC C174 IF AC C175 IF (NC C176 IF (NC C177 IF (NC C181 IF (NC C	NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A
C169	C166 IF (NC C167 IF (NC C168 IF (NC C169 IF AC C170 IF AC C171 IF AC C172 IF AC C173 IF AC C174 IF AC C175 IF (NC C176 IF (NC C177 IF (NC C178 IF (NC C179 IF (NC C180 IF (NC C180 IF (NC C181 IF (NC C182 IF (NC C181 IF (NC C182 IF (NC C183 IF (NC C182 IF (NC C184 IF (NC	NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/37) THEN R ELSE N/A NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/9 OR A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A
C167	C167 IF (N C168 IF (/ C169 IF A C170 IF A THE C171 IF A 4/10 C172 IF A C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (/ C177 IF (/ C178 IF (/ A.4. C180 IF (/ A.4. C181 IF (/ A.4. C182 IF (/ A.4.	NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.2-1/6 AND A.4.4-3a/103 AND A.4.5-1/38) THEN R ELSE N/A A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4a/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/9 OR A.4.3-4/2 AND (A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18 AND (A.4.3-4/6 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A
C169	C168 IF (ACC) C169 IF ACC) C169 IF ACC) C170 IF ACC) C171 IF ACC) C172 IF ACC) C173 IF ACC) C174 IF ACC) C175 IF (ACC) C176 IF (ACC) C177 IF (ACC) C179 IF (ACC) C180 IF (ACC) C181 IF (ACC) C182 IF (ACC)	A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A
C169	C168 IF (ACC) C169 IF ACC) C169 IF ACC) C170 IF ACC) C171 IF ACC) C172 IF ACC) C173 IF ACC) C174 IF ACC) C175 IF (ACC) C176 IF (ACC) C177 IF (ACC) C179 IF (ACC) C180 IF (ACC) C181 IF (ACC) C182 IF (ACC)	A.4.5-1/22 AND NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A
C169	C169 IF A C170 IF A THE C171 IF A 4/10 C172 IF A 1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.1-1/1 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/1) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-0) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C170 IF A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/8 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/3 OR A.3-4/3 OR A.3	C170 IF A THE C171 IF A 4/10 C172 IF A 1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.1-1/2 AND A.4.2-1/8 AND NOT (A.4.3-4/1 OR A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4a/1) EN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-0) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/18 THEN R ELSE N/A
THEN R ELSE N/A C171 IF A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A C172 IF A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A C173 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C174 IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C175 IF (NOT(A.3-4-8/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C176 IF (NOT(A.3-4-8/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C177 IF (A.4-5-1/38) THEN R ELSE N/A C178 IF (A.4-5-1/38) THEN R ELSE N/A C179 IF (A.4-3-4/3) AND A.4.1-1/2 AND A.4.3-7/4) AND A.4.3-7/4) THEN R ELSE N/A C179 IF (A.4-3-4/3) AND A.4.5-1/36 AND (A.3-4/2 OR A.4.3-4/3 OR A.4.3-4/12) THEN R ELSE N/A C179 IF (A.4-3-4/3) AND A.4.5-1/36 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/12) THEN R ELSE N/A C179 IF (A.4-3-4/3) AND A.4.5-1/36 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4-3-4/3) AND A.4.5-1/36 AND (A.3-4/2 OR A.4.3-4/3 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4-3-4/3) AND A.4.5-1/36 AND (A.3-4/2 OR A.4.3-4/3 OR A.4.3-4/12) THEN R ELSE N/A C181 IF (A.4-3-1/38) AND A.4.5-1/36 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C181 IF (A.4-3-1/38) AND A.4.5-1/36 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C182 IF (A.4-3-3/3) AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C183 IF (A.4-3-3/3) AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C184 IF (A.4-3-1/38) AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C185 IF (A.4-3-1/38) THEN R ELSE N/A C186 IF (A.4-3-1/38) THEN R ELSE N/A C187 IF (A.4-3-1/38) THEN R ELSE N/A C188 IF (A.4-1-1/38) THEN R ELSE N/A C189 IF (A.4-1-1/4 AND A.4.5-1/18) AND (A.4.3-4/2) THEN R ELSE N/A C189 IF (A.4-1-1/14) OR A.4.1-1/2 AND A.4.5-1/3 AND (A.4.3-4/10) OR A.4.6.3-1/10) AA.6.2-1/11 AND	THE C171 IF A 4/10 C172 IF A 1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	EN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-0) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C171 IF A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/10 AND (NOT A.4.5-1/8) THEN R ELSE N/A C172 IF A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-1/13) THEN R ELSE N/A C173 IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C174 IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C175 IF (NOT(A.4.3-44/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C176 IF (NOT(A.4.3-44/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.5-3/30) AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/10 CR A.4.3-4/5 OR A.4.3-4/6 C179 IF (A.4.3-3/103 AND A.4.3-1/38 AND (A.4.3-4/2 OR A.4.3-4/3) OR A.4.3-4/10 CR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4	C171 IF A 4/10 C172 IF A 1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.1-1/1 AND A.4.2-1/8 AND (A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-0) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
4/10) AND (NOT A.4.5-1/18) THEN R ELSE N/A C172 IF A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5 1/18) THEN R ELSE N/A C173 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C174 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C175 IF (NOT(A.4.3-44/1)) AND A.4.1-1/12 AND A.4.5-1/12 AND A.4.5-1/4 AND C.4.3-1/4 THEN R ELSE N/A C176 IF (NOT(A.4.3-44/1)) AND A.4.1-1/12 AND A.4.5-1/12 AND A.4.3-1/4) THEN R ELSE N/A C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.3-4/10) AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 C179 IF (A.4.5-1/38) AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/10) THEN R ELSE N/A C179 IF (A.4.5-1/37 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/10) THEN R ELSE N/A C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/10 THEN R ELSE N/A C181 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.3-4/7 OR A.4.3-4/8 OR A.3-4	4/10 C172 IF A 1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	0) AND (NOT A.4.5-1/18) THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C172 IF A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5 1/18) THEN R ELSE N/A C173 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C174 IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C175 IF (NOTI(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C176 IF (NOTI(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/30) AND A.4.3-1/30 AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 C179 IF (A.4.3-3a/103 AND A.4.5-1/38 AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/10) THEN R ELSE N/A C179 IF (A.4.3-3a/104 AND A.4.5-1/38 AND (A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C180 IF (A.4.3-3a/104 AND A.4.5-1/38 AND (A.4.3-4/10 OR A.4.3-4/10 OR A.3-4/11 OR A.3-4/12)) THEN R ELSE N/A C182 IF (A.4.5-1/38) AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.5-1/38) THEN R ELSE N/A C184 IF (A.4.5-1/38) AND A.4.5-1/38 AND (A.4.5-1/38) AND (A.4.5-1/12) AND A.4.5-1/38 AND (A.4.5-1/38) AND (A.4.5-1/12) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C185 IF (NOTI(A.4.3-44/1 OR A.4.3-4/12) THEN R ELSE N/A C186 IF (A.4.1-1/1 OR A.4.3-1/12) AND (A.4.6-1/3 AND (A.4.5-1/14) OR A.4.6-1/3) AND A.4.6-1/3 AND A.4.5-1/18 AND (A.4.5-1/18) AND (A.4.6-1/3) OR A.4.6-3-1/10 AA.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/	C172 IF A 1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C172 IF A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5 1/18) THEN R ELSE N/A C173 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C174 IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C175 IF (NOTI(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C176 IF (NOTI(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/30) AND A.4.3-1/30 AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 C179 IF (A.4.3-3a/103 AND A.4.5-1/38 AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/10) THEN R ELSE N/A C179 IF (A.4.3-3a/104 AND A.4.5-1/38 AND (A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C180 IF (A.4.3-3a/104 AND A.4.5-1/38 AND (A.4.3-4/10 OR A.4.3-4/10 OR A.3-4/11 OR A.3-4/12)) THEN R ELSE N/A C182 IF (A.4.5-1/38) AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/7 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.5-1/38) THEN R ELSE N/A C184 IF (A.4.5-1/38) AND A.4.5-1/38 AND (A.4.5-1/38) AND (A.4.5-1/12) AND A.4.5-1/38 AND (A.4.5-1/38) AND (A.4.5-1/12) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C185 IF (NOTI(A.4.3-44/1 OR A.4.3-4/12) THEN R ELSE N/A C186 IF (A.4.1-1/1 OR A.4.3-1/12) AND (A.4.6-1/3 AND (A.4.5-1/14) OR A.4.6-1/3) AND A.4.6-1/3 AND A.4.5-1/18 AND (A.4.5-1/18) AND (A.4.6-1/3) OR A.4.6-3-1/10 AA.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/	C172 IF A 1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.1-1/2 AND A.4.2-1/8 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/9 OR A.4.3-4/10) AND (NOT A.4.5-8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
1/18) THEN R ELSE N/A C173 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C174 IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A C175 IF (NOTIA.4.3-48/1) AND A.4.1-1/12 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C176 IF (NOTIA.4.3-48/1) AND A.4.1-1/12 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.5-1/38) AND A.4.5-1/37 AND (A.4.3-4/12 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C179 IF (A.4.5-3/103 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/12)) THEN R ELSE N/A C179 IF (A.4.5-3/104 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/12)) THEN R ELSE N/A C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C181 IF (A.4.5-1/38 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 ITHEN R ELSE N/A C182 IF (A.4.3-3/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.3-3/303 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.3-3/303 AND A.4.5-1/37 AND (A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.3-3/303 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C185 IF (NOTICA.3-3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C186 IF (A.4.5-1/37) THEN R ELSE N/A C187 IF (NOTICA.3-3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C188 IF (A.4.5-1/37) THEN R ELSE N/A C189 IF (A.4.5-1/37) AND (A.4.5-1/37) AND (A.4.5-1/37) AND (A.4.5-1/37) AND (A.4.5-1/37) AND (A.4.3-4/11) AND (A.4.5-1/18) AND (A.4.6-1/37) AND (A.4.3-4/11) AND	1/18 C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	8) THEN R ELSE N/A A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C174	C173 IF A C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C175 IF (NOT(A.4.3-4a/1) AND A.4.5-1/18 THEN R ELSE N/A C176 IF (NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C176 IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.5-1/38) THEN R ELSE N/A C179 IF (A.4.5-1/39) AND A.4.5-1/37 AND (A.4.3-4/2) OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 C179 IF (A.4.5-1/37) AND A.4.5-1/38 AND (A.4.3-4/2) OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C181 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C183 IF (A.4-3-3/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C184 IF (A.4-3-3/10 OR A.4.3-4/3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C185 IF (NOT(A.4.3-4/4) OR A.4.3-4/3-4/11 OR A.4.3-4/3-4/12) THEN R ELSE N/A C186 IF A.4.3-3/5/2 AND NOT(A.4.3-4/3-4/10 OR A.4.3-4/3-4/10 OR A.4.3-4/3-1/17 THEN R ELSE N/A C187 IF (NOT(A.4.3-4/4) OR A.4.3-4/3-1/17 AND A.4.6.2-1/3 AND A.4.6.2-1/3 OR A.4.6.3-1/7) THEN R ELSE N/A C188 IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6-1/3 AND A.4.6.1-1/4) OR (A.4.3-4/10) AA.4.3-3-3/10 OR A.4.6.3-1/10 OR A.4.3-3/10 OR A.4.6.3-1/10 OR A.4.6.3-1	C174 IF A C175 IF (N C176 IF (N C177 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/18 THEN R ELSE N/A NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C175 IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C176 IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A C178 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 A.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C179 IF (A.4.4-3a/104 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/2 OR A.4.3-4/13 OR A.4.3-4/12)) THEN R ELSE N/A C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/16 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C181 IF (A.4.5-1/38 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C182 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C183 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C184 IF (A.4.5-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C185 IF (A.4.5-1/38) THEN R ELSE N/A C186 IF (A.4.5-1/38) THEN R ELSE N/A C187 IF (A.4.5-1/38) THEN R ELSE N/A C188 IF (A.4.5-1/38) THEN R ELSE N/A C189 IF (A.4.5-1/4) OR A.4.5-1/12) AND (A.4.5-1/12) AND A.4.6.1-1/4) OR A.4.6.3-1/10 OR A.4.6.3-1/7 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.6-1/3) AND A.4.5-1/18 AND A.4.5-1/18 THEN ELSE N/A C189 IF (A.4.1-1/4 AND A.4.5-1/18 AND (A.4.6-1/3) AND (A.4.6-1/3) AND (A.4.3-4/10 OR A.4.6-1/3) AND A.4.5-1/18 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10	C175 IF (N C176 IF (N C177 IF (A C178 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	NOT(A.4.3-4a/1) AND A.4.1-1/1 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N/A
C176 IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N C177 IF (A.4.5-1/38) THEN R ELSE N/A L176 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 L177 IF (A.4.4-3a/104 AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/1 OR A.4.3-4/1 OR A.4.3-4/5 OR A.4.3-4/6 L177 IF (A.4.4-3a/104 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/1 OR A.4.3-4/12) THEN R ELSE N/A L180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/1 OR A.4.3-4/12) THEN R ELSE N/A L180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.3-4/10 OR A.3-3/10	C176 IF (N C177 IF (A C178 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	
C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/1 OR A.4.3-4/1 OR A.4.3-4/5 OR A.4.3-4/5 IF (A.4.4-3a/104 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 A.34/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/1 OR A.4.3-4/1 OR A.3-4/5 OR A.4.3-4/9 OR C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/2 OR A.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (A.4.5-1/38 AND A A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C181 IF (A.4.5-1/38 AND A A.4.5-1/37 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/1 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C182 IF (A.4.5-1/303 AND A.4.5-1/37 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/1 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.5-3/138) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.3-4-3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C186 IF (A.4.5-1/38) THEN R ELSE N/A C187 IF (NOT(A.3-4-3-4/6) OR A.4-3-4/3-4/12)) THEN R ELSE N/A C188 IF (A.4.3-3/3-4/4 OR A.4.3-4/3-4/3 OR A.4.3-4/3-3 OR A.4.3-3/3-3/3 OR A.4.3-3/3-3/3 OR A.4.3-3/3 OR A.4.3-3/10 OR A.4.3-1/13 OR A.4.3-1/13 OR A.4.3-1/13 OR A.4.3-1/13 OR A.4.3-1/13	C177 IF (A C178 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	NOT(A.4.3-4a/1) AND A.4.1-1/2 AND A.4.5-1/12 AND A.4.3-7/4) THEN R ELSE N
C177 IF (A.4.5-1/38) THEN R ELSE N/A C178 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/1 OR A.4.3-4/1 OR A.4.3-4/5 OR A.4.3-4/5 IF (A.4.4-3a/104 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 A.34/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/1 OR A.4.3-4/1 OR A.3-4/5 OR A.4.3-4/9 OR C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/2 OR A.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A IF (A.4.5-1/38 AND A A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C181 IF (A.4.5-1/38 AND A A.4.5-1/37 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/1 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C182 IF (A.4.5-1/303 AND A.4.5-1/37 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/1 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.5-3/138) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.3-4-3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C186 IF (A.4.5-1/38) THEN R ELSE N/A C187 IF (NOT(A.3-4-3-4/6) OR A.4-3-4/3-4/12)) THEN R ELSE N/A C188 IF (A.4.3-3/3-4/4 OR A.4.3-4/3-4/3 OR A.4.3-4/3-3 OR A.4.3-3/3-3/3 OR A.4.3-3/3-3/3 OR A.4.3-3/3 OR A.4.3-3/10 OR A.4.3-1/13 OR A.4.3-1/13 OR A.4.3-1/13 OR A.4.3-1/13 OR A.4.3-1/13	C177 IF (A C178 IF (A A.4. C179 IF (A A.4. C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	
C178 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C180 IF (A.4.5-1/38 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C181 IF (A.4.5-1/38 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C183 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C184 IF (A.4.5-1/38 ITHEN R ELSE N/A C185 IF (NOTICA.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C186 IF (NOTICA.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C187 IF (NOTICA.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C188 IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-1/1 THEN R ELSE N/A C187 IF (NOTICA.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/3-1) THEN R ELSE N/A C188 IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C189 IF (A.4.1-1/1 AND A.4.5-1/18) AND (A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11) OR A.4.6-1/3 AND A.4.5-1/18 THEN ELSE N/A C189 IF (A.4.1-1/1 AND (A.4.6-1-1/2) AND A.4.6-1/3 AND (A.4.3-4/11) AND A.4.6-1/3 AND A.4.3-3/10) AND A.4.6-1/3 AND (A.4.3-4/10)	C178 IF (AA.4. C179 IF (AA.4. C180 IF (AA.4. C181 IF (AA.4. C182 IF (AA.4.	A 4 5-1/38) THEN R ELSE N/A
A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C179 IF (A.4.4-3a/104 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/3 OR A.4.3-4/5 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/10 OR A.4.3-1/10 O	C179 IF (AAA. C180 IF (AAA. C181 IF (AAA. C181 IF (AAA. C182 IF (AAA.	
C179 IF (A.44.3a/104 AND A.4.5-1/38 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C181 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C182 IF (A.4.5-1/38 AND A A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C183 IF (A.4.3-3/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/11 OR A.4.3-4/12)) THEN R ELSE N/A C186 IF (A.4.5-1/17 THEN R ELSE N/A C187 IF (NOT(A.4.3-4a/11 OR A.4.3-4a/11) OR A.4.3-4a/11 THEN R ELSE N/A C188 IF (A.4.1-1/11 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR (A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF ((A.4.1-1/11 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/11 AND A.4.6.3-1/6) OR A.4.6.3-1/7) THEN R ELSE N/A C189 IF (A.4.1-1/11 AND A.4.1-1/2) AND ((A.4.1-1/2 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C189 IF (A.4.1-1/11 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/10) AND A.4.3-4/10) AND (A.4.3-4/11) OR A.4.3-4/10) AND A.4.5-1/18 THEN ELSE N/A C189 IF (A.4.1-1/11 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/10) AND A.4.3-3/10 AND (A.4.3-4/11) AND A.4.5-1/18 AND (A.4.6-1/3) AND (A.4.3-4/9) OR A.4.3-4/10) AND A.4.3-3/10 AND (A.4.6-1-1/4 OR A.4.6.2-1/10 OR A.4.6.3-1/6 OR A.4.6.3-1/70 THEN R ELSE N/A C190 V0id C191 V0id C192 IF (A.4.1-1/11 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.6-1/3) AND (A.4.	C179 IF (AA.4. C180 IF (AA.4. C181 IF (AA.4. C182 IF (AA.4.	
C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C181 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C182 IF (A.4.5-1/38 AND A A.4.5-1/36 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 C182 IF (A.4.3-3/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.3-3/103 AND A.4.5-1/38 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (A.4.3-3/103 AND A.4.5-1/38 AND (A.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C186 IF (A.5-1/38) THEN R ELSE N/A C187 IF (A.5-1/38) THEN R ELSE N/A C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.3-1/11) AND A.4.1-1/2) AND A.4.6.1-1/2 OR A.4.6.3-1/10 OR A.4.6.3-1/18 THEN ELSE N/A C189 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11) OR A.4.3-4/12)) THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11) OR A.4.3-4/12)) THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/12)) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/10) OR A.4.6.3-1/18 OR A.4.6.3-1/19 OR A.4.6.3-1/10 OR A.4.6.3-1/19 OR A.4.6.3-1/10 OR A.4.6.3-1/19 OR A.4.6.3-1/10 OR A.4.6.3-	C180 IF (A A.4. C181 IF (A A.4. C182 IF (A	
C180 IF (A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 O A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C181 IF (A.4.5-1/38 AND A.4.5-1/36 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C182 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C183 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C183 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-1/1 AND A.4.6.2-1/1 AND A.4.5-1/17) THEN R ELSE N/A C186 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1) OR A.4.3-4aa/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C188 IF (A.4.1-1/1 AND (A.4.1-1/2) AND (A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/10 OR A.4.3-4/10) THEN R ELSE N/A C189a Void C189b Void C190 Void C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.1-1/8) AND (A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.1-1/8) AND (A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.1-1/8) AND (A.4.6.2-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.1-1/8) AND (A.4.6.2-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/18) AND (A.4.6.3-1/16 OR A.4.6.3-1	C180 IF (AA.4.) C181 IF (AA.4.) C182 IF (AA.4.)	
C181 IF (A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C182 IF (A.4.5-1/38 AND A.4.5-1/37 AND (A.4.3-4/2)) THEN R ELSE N/A C182 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/2)) THEN R ELSE N/A C186 IF (A.4.5-1/38) THEN R ELSE N/A C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/12 OR A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.1-1/4) OR A.4.6.3-1/13 OR A.4.6.3-1/13 OR A.4.6.3-1/13 OR A.4.6.3-1/13 NND A.4.5-1/18 THEN R ELSE N/A C188 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189 Void C189b Void C189b Void C189b Void C189h IF (A.4.1-1/1 AND (A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10) RA.4.3-4/10 OR A.4.6.3-1/10 OR A.4.6.3-	A.4. C181 IF (A A.4. C182 IF (A	.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C181 IF (A.4.4-3-1/38 AND A.4.5-1/146 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C182 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/5 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A A.4.5-1/17) THEN R ELSE N/A C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4a/3) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/3 THEN R ELSE N/A C188 IF (A.4.1-1/1 AND (A.4.1-1/2) AND (A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189a Void C189a Void C189b Void C189b Void C190 Void C190 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/8 OR A.4.6.3-1/10 OR A.4.6.3-	C181 IF (A A.4. C182 IF (A	A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR
C181 IF (A.4.4-3-1/38 AND A.4.5-1/146 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C182 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C183 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/5 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A A.4.5-1/17) THEN R ELSE N/A C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4a/3) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/3 THEN R ELSE N/A C188 IF (A.4.1-1/1 AND (A.4.1-1/2) AND (A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189a Void C189a Void C189b Void C189b Void C190 Void C190 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/8 OR A.4.6.3-1/10 OR A.4.6.3-	C181 IF (A A.4. C182 IF (A	
C182 IF (A.4.4-3a/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C183 IF (A.4.4-3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/5 C184 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 C185 IF (A.4.5-1/38) THEN R ELSE N/A C186 IF (A.4.5-1/38) THEN R ELSE N/A C187 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A A.4.5-1/17) THEN R ELSE N/A C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4a/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/10 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189a Void C189b Void C189b Void C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6-1/14 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.6.3-1/8 OR A.4.3-4/10 OR A.4.6.3-1/8 OR A.4.3-4/10 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/1	A.4. C182 IF (A	
C182 F (A.4.3a/103 AND A.4.5-1/37 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C183 F (A.4.3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/12) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/12)) THEN R ELSE N/A C186 IF (A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4a/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A A.4.5-1/17) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN F ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.1-1/4) OR A.4.6.3-1/10 OR A.4.3-4/10 O	C182 IF (A	
C183 IF (A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C184 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/15 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.3-1/7) THEN R ELSE N/A C186 IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN F ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6 C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.1-1/2) AND A.4.6 C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/10 OR A.4.3-4/10) THEN R ELSE N/A C189a Void C189a Void C189b Void C189b Void C189b Void C190 Void C191 IF (A.4.1-1/1 AND (A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/7) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.6.3-1/7) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.6.3-1/10 OR A	`	
C183 IF (A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A A.4.5-1/17) THEN R ELSE N/A C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.6.3-1/7)) THEN R ELSE N/A C187 IF (A.4.1-1/1 AND A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189b Void C189b Void C189b Void C189b Void C189b IF (A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C190 Void C191 IF (A.4.1-1/1 AND (A.4.5-1/18) AND (A.4.6-1/3 OR A.4.6.3-1/7) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (A.4.5-1/18) AND (A.4.6-1/3 OR A.4.6.3-1/7) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.5-1/18) AND (A.4.6-1/3 OR A.4.6.3-1/7) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.5-1/18) AND (A.4.6-1/3 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.6.3-1/8 OR A.4.6.3-1/10 OR A.4.3-4/11) OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3	A.4.	
A. Á. 3-4/10 OR A. 4.3-4/11 OR A. 4.3-4/12) THEN R ELSE N/A		
A. Á. 3-4/10 OR A. 4.3-4/11 OR A. 4.3-4/12) THEN R ELSE N/A	C183 IF (A	A.4.4-3a/103 AND A.4.5-1/38 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR
C184 IF (A.4.5-1/38) THEN R ELSE N/A C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A A.4.5-1/17) THEN R ELSE N/A C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.3-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6 C187 IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.2-1/3) OR A.4.6.3-1/10 AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/10 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a2 Void C189a2 Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4		
C185 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 A A.4.5-1/17) THEN R ELSE N/A C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN F ELSE N/A C187h IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.6.3-1/7)) THEN F ELSE N/A C187h IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.1-1/2) AND A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189b Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.3-4/12)) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/10		
C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187h IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6 C187h IF (A.4.1-1/1 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189b Void C189b Void C189b Void C190 Void C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/7) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/70 OR A.4.6.2-1/8 OR A.4.3-4/11 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.6.3-1/10 OR A.4.6.3-1/17 OR A.4.6.3-1/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (A.4.6.3-1/16 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (A.4.6.3-1/16 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE		
C186 IF A.4.3-3b/2 AND NOT(A.4.3-4a/1 OR A.4.3-4aa/1) THEN R ELSE N/A C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R ELSE N/A C187h IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/17) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 OR A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) THEN R ELSE N/A C194 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/10 OR A.4.6.3-1/11 OR A.4.3-4/12) AND (A.4.6.3-1/11 OR A.4.3-4/12) THEN R ELSE N/A		
C187 IF ((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN F ELSE N/A C187h IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189b Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/13 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12 OR A.4.6.3-1/13 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4/12 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12 OR A.4.6.3-1/10 OR A.4.6.3-1/11 OR A.4.3-4/12 OR A.4.6.3-1/11 OR A.4.3-4/12 OR A.4.6.3-1/11 OR A.4.6.3-1/11 OR A.4.6.3-1/11 OR A.4.6.3-1/11 OR A.4.6.3-1/12 OR A.4.6.3-1/11 OR A.4.6.3-1/11 OR A.4.6.3-1/11 OR A.4.6.3-1/12 OR A.4.6.3-1/11 OR A.4.6.3-1/11 OR A.4.6.3-1/11		
ELSE N/A C187h IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C189a Void C189a Void C189b Void C189b Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.6.3-1/8 O A A.6.3-1/13 OR A.4.6.3-1/13 OR A.4.6.3-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 O A A.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/7 OR A.4.6.2-1/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/1 AND (A.4.6.3-1/18) AND A.4.6.3-1/19 OR A.4.6.3-1/19		
C187h IF (A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/C C189a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A C192 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17 AND (A.4.3-4/11 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/16 OR A.4.6.3-1/17) THEN R ELSE N/A C194 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C195 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C196 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A	C187 IF (((A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR A.4.6.3-1/6 OR A.4.6.3-1/7)) THEN R
OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/10 OR A.4.3-4/11) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C195 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A	ELS	SE N/A
OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) AND A.4.5-1/18 THEN ELSE N/A C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/10 OR A.4.3-4/11) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C195 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A	C187h IF (A	A.4.1-1/1 OR A.4.1-1/2) AND ((A.4.1-1/2 AND A.4.6.1-1/4) OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3)
C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N C189a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a2 Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/2) C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.6.3-1/11)) THEN R ELSE N/A		
C188 IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 THEN R ELSE N/A C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N C189a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a2 Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11) AND (A.4.3-4/12)) TREN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A		
C189 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N C189a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10) THEN R ELSE N/A C189a Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.6.3-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11) AND (A.4.3-4/12) AND (A.4.6.3-1/12) AND (A.4.3-4/12) AND (A.4.3-4/8 OR A.4.3-4/12) AND (A.4.3-4/12) AND (A.4.3-4/8 OR A.4.3-4/11) OR A.4.3-4/12) THEN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/70 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A		
C189a		
THEN R ELSE N/A C189a2 Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TREN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/7 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/11 OR A.4.		
C189a2 Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TREN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.6.3-1/11)) THEN R ELSE N/A	C189a IF (A	A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6-1/3) AND (A.4.3-4/9 OR A.4.3-4/10) AND A.4.3-3a/10)
C189a2 Void C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TREN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.6.3-1/11)) THEN R ELSE N/A	THE	EN R ELSE N/A
C189b Void C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TREN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/10 OR A.4.6.3-1/12 OR A.4.6.3-1/11 OR A.4.6.3-1/11)) THEN R ELSE N/A		
C189h IF A.4.1-1/1 AND A.4.5-1/18 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/3 AND A.4.3-3a/10 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TREN R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/10 OR A.4.6.3-1/12 OR A.4.6.3-1/11 OR A.4.6.3-1/11)) THEN R ELSE N/A		
(A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.4.6.3-1/7) THEN R ELSE N/A C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/12 OR A.4.6.3-1/11 OR A.4.3-4/11)) THEN R ELSE N/A		
C190 Void C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/3 OR A.4.6.3-1/10) THEN R ELSE N/A		
C191 Void C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/12 OR A.4.6.3-1/12 OR A.4.6.3-1/11)) THEN R ELSE N/A		
C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-0/10 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/12 OR A.4.6.3-1/10 OR A.4.6.3-1/11)) THEN R ELSE N/A		
C192 IF (A.4.1-1/1 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/9 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-0/10 OR A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/12 OR A.4.6.3-1/10 OR A.4.6.3-1/11)) THEN R ELSE N/A	C191 Voic	
OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-0/8 A.4.3-4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/8 OR A.4.6.3-1/16 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A		
C192a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND (A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/10 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/3 OR A.4.6.3-1/10) THEN R ELSE N/A		
A.À.6.3-1/13 OR A.À.6.3-1/15 OR Á.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4. 4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-0 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/10 OR A.4.6.3-1/11 OR A.4.3-4/12) THEN R ELSE N/A		
4/12)) THEN R ELSE N/A C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-0 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/0 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A		
C193 IF (A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-0 OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) TR ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/0 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A		
OR A.4.3-4/12)) THEN R ELSE N/A C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) T R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/0 OR A.4.6.3-1/16 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A	4/12	2)) THEN K ELSE N/A
C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) T R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/11)) THEN R ELSE N/A	C193 IF (A	A.4.1-1/1 AND (A.4.6.3-1/10 OR A.4.6.2-1/3) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11
C193a IF (A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) T R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/10 OR A.4.6.3-1/10 OR A.4.6.3-1/11)) THEN R ELSE N/A	OR.	A.4.3-4/12)) THEN R ELSE N/A
R ELSE N/A C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-4/10 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A	C193a IF (A	
C194 IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-7 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A		A.4.1-1/1 AND (NOT A.4.5-1/18) AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN
OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A		
		LSE N/A
1 040E 1/-:-		LSE N/A A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/4
	C195 Voic	LSE N/A A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/4 A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A
C196 Void	C196 Voic	ELSE N/A A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/4 A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A d
		LSE N/A A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/4 A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A d
		LSE N/A A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.2-1/4 A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11)) THEN R ELSE N/A d

C198	IF (A.4.5-1/38 AND A.4.3-7/1) THEN R ELSE N/A
C198a	IF A.4.1-1/2 AND A.4.5-1/38 AND A.4.3-7/1 THEN R ELSE N/A
C198b	IF A.4.1-1/2 AND A.4.5-1/38 THEN R ELSE N/A
C198c	IF A.4.1-1/2 AND A.4.5-1/38 AND A.4.3-7/1 AND A.4.4-3b/103 THEN R ELSE N/A
C199	IF A.4.5-1/37 AND A.4.3-7/1 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR
	A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.4-3a/103 THEN
	R ELSE N/A
C200	IF A.4.5-1/38 AND A.4.3-7/1 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR
	A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.4-3b/103 THEN
	R ELSE N/A
C201	Void
C202	IF ((NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3b/4 AND A.4.2-1/3) THEN
	R ELSE N/A
C203	IF ((A.4.5-1/37) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C204	IF ((A.4.5-1/38) AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C205	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103 AND A.4.5-1/37) AND (A.4.3-4/2 OR
	A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10
	OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C206	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3b/103 AND A.4.5-1/38) AND (A.4.3-4/2 OR
	A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10
	OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C207	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6.3-1/1 AND A.4.5-1/32)
	THEN R ELSE N/A
C208	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND A.4.1-1/2 AND A.4.6.3-1/1 AND A.4.5-1/32) THEN R ELSE N/A
C209	IF A.4.1-1/1 AND A.4.5-1/15 AND A.4.5-1/32 THEN R ELSE N/A
C210	IF A.4.1-1/2 AND A.4.5-1/14 AND A.4.5-1/32 THEN R ELSE N/A
C211	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-1/11) THEN R ELSE N/A
C212	IF (A.4.1-1/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR
0212	A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-
	1/11)) THEN R ELSE N/A
C213	IF (A.4.1-1/2 AND (NOT A.4.5-1/18) AND (A.4.6-1/3 OR A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR
0213	A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/9 OR A.4.6.3-1/10 OR A.4.6.3-1/11 OR A.4.6.3-1/12) AND (A.4.3-
	4a/6 OR A.4.3-4a/7 OR A.4.3-4a/10)) THEN R ELSE N/A
C214	IF (A.4.1-1/1 AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/10 OR A.4.6.2-1/4 OR A.4.6.2-1/5) AND (A.4.3-
0214	4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C215	IF (A.4.1-1/1 AND (A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/15) AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-
0213	4/12)) THEN R ELSE N/A
C216	IF (A.4.1-1/1 AND A.4.6.3-1/14 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C216	
C217	IF A.4.1-1/2 AND A.4.5-1/15 AND A.4.5-1/32 THEN R ELSE N/A IF A.4.1-1/1 AND A.4.5-1/15 AND A.4.5-1/32 AND A.4.5-1/56 THEN R ELSE N/A
C219	IF A.4.1-1/2 AND A.4.5-1/32 AND A.4.5-1/56 THEN R ELSE N/A
C220	IF A.4.1-1/1 AND (A.4.5-1/37 AND A.4.5-1/46) THEN R ELSE N/A
C221	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR
0.0011	A.4.6.3-1/18 OR A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8) THEN R ELSE N/A
C221h	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.6.3-1/13 OR A.4.6.3-1/14 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR
	A.4.6.3-1/17 OR A.4.6.3-1/18 OR A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR (A.4.1-1/2 AND A.4.6.1-1/5)
0000	OR ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4)) AND A.4.5-1/18 THEN R ELSE N/A
C222	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/14) OR (A.4.1-1/2 AND A.4.6.1-1/5) THEN R ELSE N/A
C223	IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 THEN R ELSE N/A
C224	IF A.4.2-1/8 THEN R ELSE N/A
C225	IF (A.4.2-1/8 AND A.4.5-1/27) THEN R ELSE N/A
C226	IF (A.4.1-1/1 AND A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4a/8)) THEN R ELSE
	N/A
C227	IF (A.4.5-8/1 AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11
	OR A.4.3-4/12 OR A.4.3-4a/4 OR A.4.3-4a/5 OR A.4.3-4a/6 OR A.4.3-4a/7 OR A.4.3-4a/10)) THEN R ELSE
	N/A
C228	IF (A.4.5-8/1 AND A.4.6.2-1/1 AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/4
<u></u>	OR A.4.3-4a/5 OR A.4.3-4a/6 OR A.4.3-4a/7 OR A.4.3-4a/10)) THEN R ELSE N/A
C229	IF (A.4.5-8/4 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-
	4a/6 OR A.4.3-4a/7 OR A.4.3-4a/10 OR A.4.3-4a/11 OR A.4.3-4a/13)) THEN R ELSE N/A
C230	IF (A.4.5-8/4 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/6 OR A.4.3-
	4a/7 OR A.4.3-4a/10 OR A.4.3-4a/11 OR A.4.3-4a/13)) THEN R ELSE N/A
C231	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.5-1/37 OR A.4.5-1/38) AND A.4.3-
	7/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR
	A.4.3-4/12)) THEN R ELSE N/A
	"

C232 IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.5-1/37 OR A 7/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3 A.4.3-4/12)) THEN R ELSE N/A C233 IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.4-3a/103 AN (A.4.5-1/37 OR A.4.5-1/38) AND A.4.3-7/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.	
C233 IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.4-3a/103 AN (A.4.5-1/37 OR A.4.5-1/38) AND A.4.3-7/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/6	
A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A	
C234 IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/103 AN (A.4.5-1/37 OR A.4.5-1/38) AND A.4.3-7/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/4 A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A	
C235 IF A.4.1-1/2 AND (A.4.5-1/38 AND A.4.5-1/46) THEN R ELSE N/A	
C236 IF (A.4.5-8/7 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.	4.6.3-1/7 OR A.4.6.3-1/9
OR A.4.6.3-1/10 OR A.4.6.3-1/11 OR A.4.6.3-1/12) AND (A.4.3-4a/10 OR A.4.3-4a/1 A.4.3-4a/14)) THEN R ELSE N/A	
C237 IF (A.4.5-8/10 AND (A.4.6.1-1/5 OR A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4a/10 OR A.4.3	
OR A.4.3-4a/14)) THEN R ELSE N/A	
C238 IF (A.4.5-8/10 AND A.4.6.3-1/14 AND (A.4.3-4a/10 OR A.4.3-4a/11 OR A.4.3-4a/13 OR ELSE N/A	
C239 IF (A.4.1-1/2 AND A.4.5-1/38 AND A.4.5-1/46 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3 N/A	3-4a/8)) THEN R ELSE
C240 IF (A.4.5-8/2 AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1 OR A.4.6.3-1/5) AND OR A.4.3-4a/8)) THEN R ELSE N/A	(A.4.3-4/6 OR A.4.3-4/7
C241 IF (A.4.5-8/2 AND A.4.6.1-2/1 AND (A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4a/8)) THEN F	R ELSE N/A
C242 IF (A.4.5-8/5 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/11 OR	
4a/6 OR A.4.3-4a/7 OR A.4.3-4a/10 OR A.4.3-4a/11 OR A.4.3-4a/13)) THEN R ELSI C243 IF (A.4.5-8/5 AND (A.4.6. 2-1/2 OR A.4.6.3-1/2) AND (A.4.3-4/11 OR A.4.3-4/12 OR	
4a/7 OR A.4.3-4a/10 OR A.4.3-4a/11 OR A.4.3-4a/13)) THEN R ELSE N/A C244 IF (A.4.5-8/8 AND (A.4.6.1-1/4 OR A.4.6.2-1/4 OR A.4.6.2-1/5 OR A.4.6.3-1/6 OR A.	4 6 2 1/7 OD A 4 6 2 1/0
OR A.4.6.3-1/10 OR A.4.6.3-1/11 OR A.4.6.3-1/12) AND (A.4.3-4a/11 OR A.4.3-4a/1	
THEN R ELSE N/A C245 IF (A.4.5-8/11 AND (A.4.6.1-1/5 OR A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A	Δ Λ 6 3-1/8 OR Δ Λ 6 3-
1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17) AND (A.4.3-4a/13 OR A.4.3 N/A	
C246 IF (A.4.5-8/11 AND A.4.6.3-1/14 AND (A.4.3-4a/13 OR A.4.3-4a/14)) THEN R ELSE	N/A
C247 IF (A.4.5-8/3 AND (A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12 OR A.4.3- A.4.3-4a/6 OR A.4.3-4a/7 OR A.4.3-4a/10)) THEN R ELSE N/A	
C248 IF (A.4.5-8/6 AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/6 OR A.4.3-4a/7 OR A.4.3 OR A.4.3-4a/13)) THEN R ELSE N/A	3-4a/10 OR A.4.3-4a/11
C249 IF (A.4.5-8/9 AND (A.4.3-4a/10 OR A.4.3-4a/11 OR A.4.3-4a/13 OR A.4.3-4a/14)) Th	HEN R ELSE N/A
C250 IF (A.4.5-8/12 AND (A.4.3-4a/11 OR A.4.3-4a/13 OR A.4.3-4a/14)) THEN R ELSE N	/A
C251 IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND A.4.5-1/18 AND (1/38) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4. OR A.4.3-4/12)) THEN R ELSE N/A	
C252 IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND A.4.5-1/18 AND (A.4.5-1/37 OR A.4.5-
1/38) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4 OR A.4.3-4/12)) THEN R ELSE N/A	
C253 IF ((A.4.1-1/1) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/5 OR	
OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5 N/A	•
C254 IF ((A.4.1-1/1) AND (A.4.6.2-1/1) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4 A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R ELSE N/A	
C255 IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/5 OR A	
OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5 N/A	
N/A C256 IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4	
N/A C256 IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R EL C257 IF (A.4.1-1/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.3-4/12)	
N/A C256 IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R EL C257 IF (A.4.1-1/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.1/11) AND A.4.5-1/39) THEN R ELSE N/A C258 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/7 OR A.4.6.3-1/7 OR A.4.6.3-1/	4.6.2-1/3 OR A.4.6.3-
N/A C256 IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R EL C257 IF (A.4.1-1/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.1/11) AND A.4.5-1/39) THEN R ELSE N/A C258 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/7 OR A.4.1/3) AND A.4.5-1/39) THEN R ELSE N/A C259 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/14) AND	4.6.2-1/3 OR A.4.6.3- 4.6.3-1/12 OR A.4.6.2-
N/A C256 IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R EL C257 IF (A.4.1-1/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.1/11) AND A.4.5-1/39) THEN R ELSE N/A C258 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/7 OR A.4.1/3) AND A.4.5-1/39) THEN R ELSE N/A C259 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/14) AND ELSE N/A	4.6.2-1/3 OR A.4.6.3- 4.6.3-1/12 OR A.4.6.2-
N/A C256 IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R EL C257 IF (A.4.1-1/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.1/11) AND A.4.5-1/39) THEN R ELSE N/A C258 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/7 OR A.4.1/3) AND A.4.5-1/39) THEN R ELSE N/A C259 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/14) AND	4.6.2-1/3 OR A.4.6.3- 4.6.3-1/12 OR A.4.6.2-
N/A C256 IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R EL C257 IF (A.4.1-1/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.1/11) AND A.4.5-1/39) THEN R ELSE N/A C258 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/7 OR A.4.1/3) AND A.4.5-1/39) THEN R ELSE N/A C259 IF (A.4.1-1/1 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/14) AND ELSE N/A C260 IF (A.4.1-1/1 AND A.4.5-1/18 AND A.4.4-3a/103) THEN R ELSE N/A	4.6.2-1/3 OR A.4.6.3- 4.6.3-1/12 OR A.4.6.2- D A.4.5-1/39) THEN R

C264	IF A.4.1-1/1 AND A.4.5-1/15 AND A.4.5-1/32 AND A.4.5-1/56 THEN R ELSE N/A
C265	IF A.4.1-1/2 AND A.4.5-1/14 AND A.4.5-1/32 AND A.4.5-1/56 THEN R ELSE N/A
C266	IF (A.4.1-1/1 AND A.4.2-1/2 AND NOT A.4.5-1/18) AND (A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.1-1/5 OR
	A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/14 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.6.3-
	1/18) THEN R ELSE N/A
C267	IF A.4.1-1/1 AND A.4.2-1/2 AND (NOT A.4.5-1/18) AND (A.4.3-4/11 OR A.4.3-4/12 OR A.4.3-4a/6 OR A.4.3-
	4a/7 OR A.4.3-4a/10) AND (A.4.6.1-1/5 OR A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR
	A.4.6.3-1/13 OR A.4.6.3-1/14 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.6.3-1/18) THEN R
	ELSE N/A
C267h	IF A.4.1-1/1 AND A.4.2-1/2 AND (A.4.3-4a/10 OR A.4.3-4a/11) AND A.4.6-1/4 AND (A.4.6.1-1/5 OR A.4.6.2-
020711	1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8 OR A.4.6.3-1/8 OR A.4.6.3-1/13 OR A.4.6.3-1/14 OR A.4.6.3-1/15 OR
0000	A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.6.3-1/18) AND A.4.5-1/18 THEN R ELSE N/A
C268	IF (NOT(A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.1-1/2) AND (A.4.6.3-1/2 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND
0000	A.4.5-1/32) THEN R ELSE N/A
C269	IF (NOT(A.4.3-4a/1) AND A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.5-1/32)
	THEN R ELSE N/A
C270	IF (A.4.1-1/2 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/9) AND (A.4.3-4/8 OR A.4.3-4/9
	OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C271	IF (A.4.1-1/2 AND (A.4.6.3-1/10 OR A.4.6.2-1/4 OR A.4.6.2-1/5) AND (A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10
	OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C272	IF (A.4.1-1/2 AND (A.4.6.1-1/5 OR A.4.6.3-1/14 OR A.4.6.3-1/15 OR A.4.6.3-1/16) AND (A.4.3-4/8 AND
	(A.4.3-4/11 OR A.4.3-4/12))) THEN R ELSE N/A
C273	IF (A.4.1-1/2 AND (A.4.6.3-1/17 OR A.4.6.2-1/6 OR A.4.6.2-1/7 OR A.4.6.2-1/8) AND (A.4.3-4/8 AND (A.4.3-
02.0	4/11 OR A.4.3-4/12))) THEN R ELSE N/A
C274	IF A.4.1-1/2 AND A.4.5-1/54 THEN R ELSE N/A
C275	IF A.4.1-1/2 AND (A.4.3-4/2 OR A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-
0275	4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) AND A.4.5-1/54 AND A.4.5-1/55 THEN R
0070	ELSE N/A
C276	IF A.4.1-1/2 AND A.4.5-1/55 THEN R ELSE N/A
C277	IF A.4.1-1/2 AND A.4.5-1/8 AND A.4.5-1/55 THEN R ELSE N/A
C278	IF (A.4.1-1/1 AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND A.4.5-1/18 AND (A.4.3-4/5 OR A.4.3-4/6
	OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C279	IF (A.4.1-1/1 AND A.4.6.2-1/1 AND A.4.5-1/18 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR
	A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C280	IF (A.4.1-1/1 AND A.4.6-1/1 AND A.4.5-1/37 AND A.4.5-1/46 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C281	IF (A.4.1-1/1 AND A.4.6-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C282	IF (A.4.1-1/1 AND A.4.6-1/1 AND A.4.5-1/37 AND A.4.3-7/1 AND A.4.4-3a/103 AND (A.4.3-4/5 OR A.4.3-4/6
	OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C283	IF (A.4.1-1/2 AND A.4.6-1/1 AND A.4.5-1/38 AND A.4.3-7/1 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR
	A.À.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C284	IF (A.4.1-1/2 AND A.4.6-1/1 AND A.4.5-1/38 AND A.4.3-7/1 AND A.4.4-3b/103 AND (A.4.3-4/5 OR A.4.3-4/6
020.	OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C285	IF ((A.4.1-1/1) AND (A.4.3-7/6)) THEN R ELSE N/A
C286	IF ((A.4.1-1/1) AND (A.4.3-7/7)) THEN R ELSE N/A
C287	IF ((A.4.1-1/2) AND (A.4.3-7/6)) THEN R ELSE N/A
C288	IF ((A.4.1-1/2) AND (A.4.3-7/7)) THEN R ELSE N/A
C289	IF ((A.4.1-1/1) AND (A.4.3-7/6) AND (A.4.2-1/6)) THEN R ELSE N/A
C290	IF ((A.4.1-1/2) AND (A.4.3-7/6) AND (A.4.2-1/6)) THEN R ELSE N/A
C291	IF ((A.4.1-1/2) AND (A.4.6.1-1/1 OR A.4.6.1-1/2 OR A.4.6.3-1/1) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7
	OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R ELSE
	N/A
C292	IF ((A.4.1-1/2) AND (A.4.6.2-1/1) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR
<u></u>	A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R ELSE N/A
C293	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7
	OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R ELSE
	N/A
C294	IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR
	A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12) AND A.4.5-1/39) THEN R ELSE N/A
C295	IF (A.4.1-1/2 AND (A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR
0200	A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-1/3 OR A.4.6.3-
	1/11) AND A.4.5-1/39) THEN R ELSE N/A
C296	IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.2-
U290	
0007	1/3) AND A.4.5-1/39) THEN R ELSE N/A
C297	IF (A.4.1-1/2 AND (A.4.3-4/8 OR A.4.3-4/11 OR A.4.3-4/12) AND (A.4.6.3-1/14) AND A.4.5-1/39) THEN R
	ELSE N/A

0000	IF (A A A A (O AND A A O A) (O) THEN DIFLOT N/A
C298	IF (A.4.1-1/8 AND A.4.3-4c/2) THEN R ELSE N/A
C299	IF (A.4.1-1/1 AND A.4.3-7/5) THEN R ELSE N/A
C300	IF (A.4.1-1/2 AND A.4.3-7/5) THEN R ELSE N/A
C301	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/58) THEN R ELSE N/A
C302	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND
	A.4.5-1/58) THEN R ELSE N/A
C303	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 AND A.4.6.3-2/1 AND
	A.4.5-1/58) THEN R ELSE N/A
C304	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.2-1/1 AND A.4.6.2-2/1 AND
	A.4.5-1/58) THEN R ELSE N/A
C305	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.3-1/1 AND A.4.6.3-2/1 AND A.4.5-1/62) THEN R ELSE N/A
C306	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12))
	THEN R ELSE N/A
C307	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12))
	THEN R ELSE N/A
C308	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C309	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C310	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12))
	THEN R ELSE N/A
C311	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12))
	THEN R ELSE N/A
C312	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/8 OR A.4.3-4/9 OR A.4.3-4/10 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C313	IF (A.4.1-1/10 AND A.4.3-4d/2 AND A.4.5-7/1) THEN R ELSE N/A
C314	IF A.4.1-1/1 AND (A.4.3-4aa/2 OR A.4.5-1/25) THEN R ELSE N/A
C315	IF A.4.1-1/1 AND (A.4.3-4aa/2 AND A.4.5-1/26 THEN R ELSE N/A
C316	IF A.4.1-1/2 AND (A.4.3-4aa/2 OR A.4.5-1/25) THEN R ELSE N/A
C317	IF A.4.1-1/2 AND (A.4.3-4aa/2 AND A.4.5-1/26 THEN R ELSE N/A
C318	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.5-1/13 AND A.4.5-1/58) THEN R ELSE N/A
C319	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 OR A.4.1-1/2) AND A.4.6.1-1/2 AND A.4.6.1-2/2 AND
-	NOT(A.4.5-1/17)) THEN R ELSE N/A
C320	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/10 AND A.4.5-1/66 AND A.4.5-1/67) THEN R ELSE N/A
C321	IF (A.4.1-1/10 AND A.4.3-4d/2 AND A.4.5-7/1 AND A.4.5-1/70) THEN R ELSE N/A
C322	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15 AND (A.4.5-1/37 OR A.4.5-1/38) AND (A.4.3-
	4/8 OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C323	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.4-3a/103 AND A.4.3-7/8) AND (A.4.3-4/2 OR
	A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10
	OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
C324	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.4-3b/103 AND A.4.3-7/8) AND (A.4.3-4/2 OR
	A.4.3-4/3 OR A.4.3-4/4 OR A.4.3-4/5 OR A.4.3-4/6 OR A.4.3-4/7 OR A.4.3-4/8 OR A.4.3-4/9 OR A.4.3-4/10
	OR A.4.3-4/11 OR A.4.3-4/12)) THEN R ELSE N/A
Note 1:	Cxxxh applicability is defined for small cell enhancements for physical layer related test.
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Table 4.1-1b: Tested Bands Selection Criteria

Code	Selection	Comment
D01	A.4.3-3	All supported Bands
D02	A.4.3-3 AND FDD	All supported FDD Bands
D03	A.4.3-3 AND TDD	All supported TDD Bands
D04	A.4.3-3 AND {14, 41}	Band 14 or 41 if supported
D05	A.4.3-3 AND A.4.5-3	Bands supporting UL MIMO
D06	A.4.3-3 AND NOT A.4.5-3	Bands not supporting UL MIMO
D07	A.4.3-3 AND A.4.5-4	Bands supporting Multicluster PUSCH
D08	A.4.3-3 AND NOT FALLBACK(A.4.6.1-3)	All supported Bands that are not part of contiguous CA configuration.
D09	A.4.3-3 AND A.4.5-5	Bands supporting 4 Rx antenna ports
D10	A.4.3-3 AND A.4.5-6a	Bands supporting ProSe Direct
D11	A.4.3-3 AND category NB1	All supported category NB1 Bands
D12	A.4.3-3 AND { category NB1 Bands < 1GHz}	Lowest and highest category NB1 Bands supported below 1GHz (Note 2)
D13	A.4.3-3 AND { category NB1 Bands > 1GHz}	Lowest and highest category NB1 Bands supported above 1GHz (Note 3)
D14	A.4.3-3 AND A.4.5-7	Bands supporting V2X Sidelink Communication
D15	A.4.3-3 AND NOT A.4.5-5	Bands not supporting 4Rx antenna ports

Note 1: Band Selection is based on set theory. For each feature, item number shall correspond to the Band number. The result i the set of bands for which the test shall be conducted. The following operators are used:

AND: Set intersection (\bigcap). {1,2} AND {2,3} = {2} OR: Set union (\bigcup). {1,2} OR {2,3} = {1,2,3}

NOT: Set complement (\), full set being all bands. NOT $\{1\}$ = $\{2 ... 256\}$ Also note that this is set without repetitions so $\{1\}$ AND $\{1\}$ = $\{1\}$

The following basic sets are used:

FDD: All FDD bands, currently {1...32, 65, 66} TDD: All TDD bands, currently {33...64}

Category NB1: All Category NB1 bands, currently {1, 2, 3, 5, 8, 12, 13, 17, 18, 19, 20, 26, 28, 66}

{1,2}: Explicitly given band set

The following sets derived from pro-forma tables are also used:

A.4.X-Y: All bands supporting the feature defined in A.4.X-Y. For A.4.3-3, all supported bands. FALLBACK(A.4.6.X-Y): Fallback bands of supported CA Combinations defined in Table A.4.6.X-Y

Note 2: Category NB1 Bands < 1GHz {5, 8, 12, 13, 17, 18, 19, 20, 26, 28}

Note 3: Category NB1 Bands > 1GHz {1, 2, 3, 66}

Table 4.1-1c: Tested CA Configurations Selection Criteria

Code	Selection	Comment	
E01	UL(A.4.6.1-3) AND CARRIER_NO(2)	All supported intra-band contiguous CA Configurations wi 2 carriers in both UL and DL	
E02	UL(A.4.6.2-3) AND CARRIER_NO(2)	All supported intra-band non-contiguous CA Configuration with 2 carriers in both UL and DL	
E03	UL(A.4.6.3-3) AND CARRIER_NO(2)	All supported inter-band CA Configurations with 2 carriers in both UL and DL	
E04	A.4.6.1-3 AND CARRIER_NO(2) AND NOT UL(A.4.6.1-3)	All supported intra-band contiguous CA Configurations wing carriers in DL but no CA in UL	
E05	A.4.6.2-3 AND CARRIER_NO(2) AND NOT UL(A.4.6.2-3)	All supported intra-band non-contiguous CA Configuration with 2 carriers in DL but no CA in UL	
E06	A.4.6.3-3 AND CARRIER_NO(2) AND NOT UL(A.4.6.3-3)	All supported inter-band CA Configurations with 2 carriers in DL but no CA in UL	
E07	((A.4.6.1-3 AND NOT UL(A.4.6.1-3)) OR (A.4.6.2-3 AND NOT UL(A.4.6.2-3)) OR (A.4.6.3-3 AND NOT UL(A.4.6.3-3)) OR (A.4.6.3-4 AND NOT UL(A.4.6.3-4)) OR (A.4.6.3-5) AND NOT UL(A.4.6.3-5))) AND CARRIER_NO(3)	All supported 3DL CA without UL	
E08	E04 AND NOT DL_FALLBACKS	All supported intra-band contiguous CA Configurations wi 2 carriers in DL but no CA in UL, that are not fallbacks of 3DL CA	
E09	E05 AND NOT DL_FALLBACKS	All supported intra-band non-contiguous CA Configuration with 2 carriers in DL but no CA in UL that are not fallbacks of 3DL CA.	
E10	E06 AND NOT DL_FALLBACKS	All supported inter-band CA Configurations with 2 carriers in DL but no CA in UL that are not fallbacks of 3DL CA	
E11	E04 AND NOT (FALLBACK(A.4.6.2-3) OR FALLBACK(A.4.6.3-3) OR FALLBACK(A.4.6.3-4))	All supported intra-band contiguous CA Configurations wit 2 carriers in DL but no CA in UL, that are not fallbacks of 3DL CA, except of class D intra-band 3DL CA.	
E12	E06 AND NOT (FALLBACK(A.4.6.2-3) OR FALLBACK(A.4.6.3-4))	All supported inter-band CA Configurations with 2 carriers in DL that are not fallbacks of inter-band on inter-band + intra-band non-contiguous 3DL CA.	
DL_FAL LBACKS	FALLBACK(A.4.6.1-3) OR FALLBACK(A.4.6.2-3) OR FALLBACK(A.4.6.3-3) OR FALLBACK(A.4.6.3-4) OR FALLBACK(A.4.6.3-5)	All DL Fallbacks of supported CA Configurations	
E13	E06 AND DL_ONLY_BAND	All supported inter-band CA Configurations with 2 carriers in DL where one of the bands is a DL-only band	
E14	((A.4.6.1-3 AND NOT UL(A.4.6.1-3)) OR (A.4.6.2-3 AND NOT UL(A.4.6.2-3)) OR (A.4.6.3-3 AND NOT UL(A.4.6.3-3)) OR (A.4.6.3-4 AND NOT UL(A.4.6.3-4)) OR (A.4.6.3-5) AND NOT UL(A.4.6.3-5))) AND CARRIER_NO(4)	All supported 4DL CA without UL	
E15	((A.4.6.1-3 AND NOT UL(A.4.6.1-3)) OR (A.4.6.2-3 AND NOT UL(A.4.6.2-3)) OR (A.4.6.3-3 AND NOT UL(A.4.6.3-3)) OR (A.4.6.3-4 AND NOT UL(A.4.6.3-4)) OR (A.4.6.3-5 AND NOT UL(A.4.6.3-5))) AND CARRIER_NO(5)	All supported 5DL CA without UL	
E16	A.4.5-7a	Bands supporting Inter-band con-current V2X configurations	
E17	A.4.5-7b	Bands supporting V2X Intra-band multi-carrier configurations	
E18	UL(A.4.6.1-3 OR A.4.6.2-3 OR A.4.6.3-3 OR A.4.6.3-4) AND CARRIER_NO(3)	All support 3DL CA with UL CA	
E19	E07 AND NOT DL_FALLBACKS OR E18 (AND DL_FALLBACKS)	All support 3DL CA without UL CA, that are not fallbacks of 4DL CA. OR All support 3DL CA with UL CA	
E20	UL({A.4.6.1-3 OR A.4.6.2-3} OR A.4.6.3-3 OR A.4.6.3-4 OR A.4.6.3-5) AND CARRIER_NO(4)	All support 4DL CA with UL CA	
E21	E14 AND NOT DL_FALLBACKS OR E20 {AND DL_FALLBACKS}	All support 4DL CA without UL CA, that are not fallbacks of 5DL CA. OR All support 4DL CA with UL CA	

CA Configuration Selection is based on set theory. Each CA Configuration is designated by its name, including bands ar Note: BW classes, e.g. CA_1A-5A. The following operators are used: AND: Set intersection (\bigcap). {CA_1C,CA_1A-5A} AND {CA_1C, CA_2A-4A} = CA_1C Set union (\bigcup). {CA_1C,CA_1A-5A} OR {CA_1C, CA_2A-4A} = {CA_1C,CA_1A-5A, CA_2A-4A} NOT: Set complement (\), full set being all possible CA Configurations Also note that this is set without repetitions so $\{CA_1C\}$ AND $\{CA_1C\}$ = $\{CA_1C\}$ The following basic sets are used: FDD: All FDD-only CA Configurations TDD: All TDD-only CA Configurations FDD-TDD: All mixed CA Configurations {CA 1C}: Explicitly given CA Configurations CARRIER_NO(n): All CA Configurations with n Carriers, e.g. for n=2 CA_1C and CA_1A-5A would be a part of this BAND_NO(n): All CA Configurations containing n Bands, e.g., for n=2, CA_1A-5A and CA_1A-41C are part of this se BWCLASS(x): All CA Configurations containing BW Class x, e.g., for x=C, CA_1C and CA_1A-41C are part of this so DL_ONLY_BAND: All CA configurations containing a DL-only band, e.g. CA_20A-32A is part of this set The following sets derived from pro-forma tables are also used: A.4.6.X-Y: All supported DL CA Combinations defined in table A.4.6.X-Y UL(A.4.6.X-Y): All DL CA Combinations that also support UL CA with any number of carriers >1, as per column 'Supported CA Bandwidth Class(es) in UL" defined in table A.4.6.X-Y. UL_2CC(A.4.6.X-Y): All DL CA Combinations that also support 2 Carrier UL CA, as per column "Supported CA Bandwidth Class(es) in UL" defined in table A.4.6.X-Y. Note that DL might support a larger number of carriers than UL. UL_3CC(A.4.6.X-Y): All DL CA Combinations that also support 3 Carrier UL CA, as per column 'Supported CA Bandwidth Class(es) in UL" defined in table A.4.6.X-Y FALLBACK(A.4.6.X-Y): Fallback DL CA Combinations of supported CA Combinations defined in Table A.4.6.X-Y FALLBACK UL(A.4.6.X-Y): Fallback DL and UL CA Combinations of supported CA Combinations defined in Table

A.4.6.X-Y. This set only includes Combinations with same CA Capability in UL and DL

Table 4.1-2: Default Fallback Bands and Fallback CA Configurations

CA Configuration	Default Fallback Bands	Default Fallback CA Configurations (Note 3)	
CA_XC (2 carrier intra-band contiguous)	X	-	
CA_XB (2 carrier intra-band contiguous)	X	-	
CA_XA-YA (2 carrier inter-band)	X,Y	-	
CA_XA-XA (2 carrier intra-band non-contiguous)	X	-	
or _ very ver (_ carnor intia bana non contiguodo)			
CA_XD (3 carrier intra-band contiguous)	X	CA_XC	
CA_XA-YA-ZA (3 carrier inter-band)	X,Y,Z	CA_XA-YA,	
		CA_XA-ZA, CA_YA-ZA	
CA_XC-YA(3 carrier intra-band contiguous + inter-band) ²	X,Y	CA_XC, CA_XA-YA	
CA_XB-YA(3 carrier intra-band contiguous + inter-band) ²	X,Y	CA_XB, CA_XA-YA	
CA_XA-XA-YA(3 carrier intra-band non-contiguous + inter-band) ²	X,Y	CA_XA-YA, CA_XA-XA	
CA_XC-XA(3 carrier intra-band non-contiguous + intra-band contiguous) ²	Х	CA_XA-XA CA_XC, CA_XA-XA	
CA_XE (4 carrier intra-band contiguous)	X	CA_XD,	
CA_XA (4 carrier intra-band contiguous) CA_XA-XD (4 carrier intra-band contiguous + inter-band with 2 bands) ²	X	CA_XD,	
	X, Y		
CA_XC-YC (4 carrier intra-band contiguous + inter-band with 2 bands) ²	·	CA_XA-YC, CA_XC-YA	
CA_XA-XA-YC (4 carrier intra-band non-contiguous + intra-band contiguous + inter-band with 2 bands)	X, Y	CA_XA-XA-YA, CA_XA-YC	
CA_XA-YA-ZC (4 carrier intra-band contiguous + inter-band with 3 bands) ²	X, Y, Z	CA_XA-YA-ZA, CA_XA-ZC CA_YA-ZC	
CA_XC-XC (4 carrier intra-band non-contiguous + intra-band contiguous)	X	CA_XC-XA, CA_XA-XC	
CA_XA-YA-YC (4 carrier intra-band non-contiguous + intra-band contiguous + inter-band with 2 bands) ²	X, Y	CA_XA-YA-YA, CA_XA -YC, CA YA-YC	
CA_XA-XA-YA-YA (4 carrier intra-band non-contiguous + inter-band with 2 bands) ²	X, Y	CA_XA-XA-YA, CA_XA-YA-YA,	
CA_XA-YA-ZA-RA (4 carrier inter-band with 4 bands)	X, Y, Z, R	CA_XA-YA-ZA, CA_XA-YA-RA, CA_XA-ZA-RA, CA_YA-ZA-RA,	
CA_XF (5 carrier intra-band contiguous)	X	CA_XE	
CA_XA-XE (5 carrier intra-band non-contiguous + intra-band contiguous)	X	CA_XE, CA_XA-XD	
CA_XC-XD (5 carrier intra-band non-contiguous + intra-band contiguous)	X	CA_XC-XC, CA_XA-XD	
CA_XA-YE (5 carrier intra-band contiguous + inter-band with 2 bands) ²	X, Y	CA_XA-YD,	
CA_XC-YD (5 carrier intra-band contiguous + inter-band with 2 bands) ²	X, Y	CA_YE CA_XC-YC, CA_XA-YD	
CA_XA-YA-ZD (5 carrier intra-band contiguous + inter-band with 3 bands) ²	X, Y, Z	CA_XA-YD CA_XA-YA-ZC, CA_XA-ZD, CA_YA-ZD	
CA_XA-YC-ZC (5 carrier intra-band contiguous + inter-band with 3 bands) ²	X, Y, Z	CA_XA-YC-ZA, CA_XA-YA-ZC, CA_YC-ZC	
CA_XA-YA-ZA-RC (5 carrier intra-band contiguous + inter-band with 4 bands) ²	X, Y, Z, R	CA_XA-YA-ZA, CA_XA-YA-RC, CA_XA-ZA-RC, CA_YA-ZA-RC	
CA_XA-YA-YD (5 carrier intra-band non-contiguous + intra-band contiguous + inter-band with 2 bands) ²	X, Y	CA_XA-YA-YC, CA_XA-YD, CA_YA-YD	

[04	V V	[04 \/A \/O \/A
CA_XA-YC-YC (5 carrier intra-band non-contiguous + intra-band	X, Y	CA_XA-YC-YA,
contiguous + inter-band with 2 bands) ²		CA_XA-YA-YC,
		CA_YC-YC
CA_XA-XA-YD (5 carrier intra-band non-contiguous + intra-band	X, Y	CA_XA-XA-YC,
contiguous + inter-band with 2 bands) ²		CA_XA-YD,
CA_XA-XC-YC (5 carrier intra-band non-contiguous + intra-band	X, Y	CA_XA-XC-YA,
contiguous + inter-band with 2 bands) ²		CA_XA-XA-YC,
		CA_XC-YC
CA_XA-XA-YA-YC (5 carrier intra-band non-contiguous + intra-band	X, Y	CA_XA-XA-YA-
contiguous + inter-band with 2 bands) ²		YA,
		CA_XA-XA-YC,
		CA_XA-YA-YC
CA_XA-YA-ZA-ZC (5 carrier intra-band non-contiguous + intra-band	X, Y, Z	CA_XA-YA-ZA-
contiguous + inter-band with 3 bands) ²		ZA,
		CA_XA-YA-ZC,
		CA_XA-ZA-ZC,
		CA_YA-ZA-ZC
CA_XA-YA-YA-ZA-ZA (5 carrier intra-band non-contiguous + intra-band	X, Y, Z	CA_XA-YA-YA-
contiguous + inter-band with 3 bands) ²	,,	ZA,
g		CA_XA-YA-ZA-
		ZA,
		CA_YA-YA-ZA-
		ZA,
	X, Y, Z, R	CA_XA-YA-ZA-
	Λ, 1, Δ, 1	RA,
		CA_XA-YA-RA-
CA_XA-YA-ZA-RA-RA (5 carrier intra-band non-contiguous + intra-band		RA,
contiguous + inter-band with 4 bands) ²		CA_XA-ZA-RA-
contiguous i inter band with 4 bands)		RA,
		CA_YA-ZA-RA-
		RA,
CA_XA-YA-ZA-RA-SA (5 carrier inter-band with 5 bands)	X, Y, R, S	CA_XA-YA-ZA-
CA_XA-TA-ZA-IXA-OA (5 camer inter-band with 5 bands)	Λ, Ι, Ιλ, Ο	RA,
		CA_XA-YA-ZA
		-SA,
		CA_XA-YA -
		RA-SA,
		,
		CA_XA-ZA-RA-
		SA,
		CA_YA-ZA-RA-
		SA

Table used for deriving default fallbacks in sections A.4.6.1,2 and 3. Note 1:

Note 2:

Also applicable for different band orderings (e.g., YA-XC).

Only the CA fallback configuration with 1 less CC indicated. To get the full list of fallback configurations, all fallback configurations down to 2 carrier are recursively generated. Note 3:

Table 4.1-3: 3DL CA Name/Release mapping

Number of Bands	3CA Band Combinations	Release for test applicability	Name
1	CA_XD	Rel-10	3DL CA with TDD CA_XD
	CA_XA-YB	Rel-11	3DL CA with FDD CA_XA-YB
2	CA_XA-YB	Rel-11	3DL CA with TDD CA_XA-YB
	CA_XA-YB	Rel-12	3DL CA with FDD-TDD CA_XA-YB
	CA_XA-YC	Rel-11	3DL CA with FDD CA_XA-YC
2	CA_XA-YC	Rel-11	3DL CA with TDD CA_XA-YC
	CA_XA-YC	Rel-12	3DL CA with FDD-TDD CA_XA-YC
	CA_XA-YA-ZA	Rel-10	3DL CA with FDD CA_XA-YA-ZA
3		Rel-10	3DL CA with TDD CA_XA-YA-ZA
		Rel-12	3DL CA with FDD-TDD CA_XA-YA-ZA
2	CA_XA-XA-YA	Rel-11	3DL CA with FDD CA_XA-XA-YA
1	CA_XA-XA-XA	Rel-11	3DL CA with FDD CA_XA-XA

Table 4.1-4: 4DL CA Name/Release mapping

Number of Bands	4CA Band Combinations	Release for test applicability	Name
1	CA_XE	Rel-11	4DL CA with TDD CA_XE
		Rel-11	4DL CA with FDD CA_XA-XD
2	CA_XA-XD	Rel-11	4DL CA with TDD CA_XA-XD
		Rel-12	4DL CA with FDD-TDD CA_XA-XD
	CA_XB-YB	Rel-10	4DL CA with FDD CA_XB-YB
2	04 1/0 1/0	Rel-10	4DL CA with FDD CA_XC-YB
	CA_XC-YB	Rel-12	4DL CA with FDD-TDD CA_XC-YB
2	04. 1/0.1/0	Rel-10	4DL CA with FDD CA_XC-YC
2	CA_XC-YC	Rel-10	4DL CA with TDD CA_XC-YC
1	CA_XC-XC	Rel-11	4DL CA with TDD CA_XC-XC
	CA_XA-XA-YB	Rel-11	4DL CA with FDD CA_XA-XA-YB
2	CA_XA-YA-YB	Rel-11	4DL CA with FDD CA_XA-YA-YB
3	CA_XA-YA-ZB	Rel-11	4DL CA with FDD CA_XA-YA-ZB
	CA_XA-YA-ZC	Rel-11	4DL CA with FDD CA_XA-YA-ZC
3		Rel-12	4DL CA with FDD-TDD CA_XA-YA-ZC
2	04 7/4 7/4 7/0	Rel-11	4DL CA with FDD CA_XA-YA-YC
2	CA_XA-YA-YC	Rel-12	4DL CA with FDD-TDD CA_XA-YA-YC
2	CA_XA-XC-YA	Rel-12	4DL CA with FDD-TDD CA_XA-XC-YA
3	CA_XA-YA-ZC	Rel-12	4DL CA with FDD-TDD_XA-YA-ZC
2	CA_XA-XA-YA-YA	Rel-11	4DL CA with FDD CA_XA-XA-YA-YA
_		Rel-11	4DL CA with FDD CA_XA-YA-ZA
3	CA_XA-YA-YA-ZA	Rel-12	4DL CA with FDD-TDD CA_XA-YA-YA-ZA
,		Rel-11	4DL CA with FDD CA_XA-YA-ZA-RA
4	CA_XA-YA-ZA-RA	Rel-12	4DL CA with FDD-TDD CA_XA-YA-ZA-RA

Table 4.1-5: 5DL CA Name/Release mapping

Number of Bands	5CA Band Combinations	Release for test applicability	Name
1	CA_XF	Rel-12	5DL CA with TDD CA_XF
1	CA_XA-XE	Rel-11	5DL CA with TDD CA_XA-XE
1	CA_XC-XD	Rel-11	5DL CA with FDD CA_XC-XD
'	CA_AC-AD	Rel-11	5DL CA with TDD CA_XC-XD
1	CA_XA-XA-XD	FFS	5DL CA with FDD CA_XA-XA-XD
ı	CA_AA-AB	FFS	5DL CA with TDD CA_XA-XA-XD
1	CA_XA-XC-XC	FFS	5DL CA with FDD CA_XA-XC-XC
ı	CA_XA-XC-XC	FFS	5DL CA with TDD CA_XA-XC-XC
2	CA_XA-YE	Rel-11	5DL CA with TDD CA_XA-YE
2	CA_XA-YE	Rel-12	5DL CA with FDD-TDD CA_XA-YE
		Rel-11	5DL CA with FDD CA_XC-YD
2	CA_XC-YD	Rel-11	5DL CA with TDD CA_XC-YD
		Rel-12	5DL CA with FDD-TDD CA_XC-YD
0		Rel-11	5DL CA with TDD CA_XA-YA-YD
2	CA_XA-YA-YD	Rel-12	5DL CA with FDD-TDD CA_XA-YA-YD
	CA_XA-YC-YC	Rel-11	5DL CA with FDD CA_XA-YC-YC
2		Rel-11	5DL CA with TDD CA_XA-YC-YC
		Rel-12	5DL CA with FDD-TDD CA_XA-YC-YC
		FFS	5DL CA with FDD CA_XA-XA-YC
2	CA_XA-YA-YC	FFS	5DL CA with TDD CA_XA-XA-YC
		FFS	5DL CA with FDD-TDD CA_XA-XA-YC
	CA_XA-XA-YD	Rel-11	5DL CA with TDD CA_XA-XA-YD
2		Rel-12	5DL CA with FDD-TDD CA_XA-XA-YD
		Rel-10	5DL CA with FDD CA_XA-XC-YC
2	CA_XA-XC-YC	Rel-10	5DL CA with TDD CA_XA-XC-YC
		Rel-12	5DL CA with FDD-TDD CA_XA-XC-YC
		Rel-11	5DL CA with FDD CA_XA-XA-YA-YC
2	CA_XA-XA-YA-YC	Rel-11	5DL CA with TDD CA_XA-XA-YA-YC
		Rel-12	5DL CA with FDD-TDD CA_XA-XA-YA-YC
_		FFS	5DL CA with FDD CA_XA-XA-YA-YA
2	CA_XA-XA-YA-YA	FFS	5DL CA with TDD CA_XA-XA-YA-YA

Number of Bands	5CA Band Combinations	Release for test applicability	Name
		FFS	5DL CA with FDD-TDD CA_XA-XA-YA-YA
		FFS	5DL CA with FDD CA_XA-XA-YC
2	CA_XA-XA-YC	FFS	5DL CA with TDD CA_XA-XA-YC
		FFS	5DL CA with FDD-TDD CA_XA-XA-YC
2	CA VA VA ZD	Rel-11	5DL CA with TDD CA_XA-YA-ZD
3	CA_XA-YA-ZD	Rel-12	5DL CA with FDD-TDD CA_XA-YA-ZD
		Rel-11	5DL CA with FDD CA_XA-YC-ZC
3	CA_XA-YC-ZC	Rel-11	5DL CA with TDD CA_XA-YC-ZC
		Rel-12	5DL CA with FDD-TDD CA_XA-YC-ZC
		Rel-11	5DL CA with FDD CA_XA-YA-ZA-ZC
3	CA_XA-YA-ZA-ZC	Rel-11	5DL CA with TDD CA_XA-YA-ZA-ZC
		Rel-12	5DL CA with FDD-TDD CA_XA-YA-ZA-ZC
	CA_XA-YA-ZA-ZA-ZA	FFS	5DL CA with FDD CA_XA-YA-ZA-ZA
3		FFS	5DL CA with TDD CA_XA-YA-ZA-ZA
		FFS	5DL CA with FDD-TDD CA_XA-YA-ZA-ZA
	CA_XA-YA-YA-ZC	Rel-11	5DL CA with FDD CA_XA-YA-YC
3		Rel-11	5DL CA with TDD CA_XA-YA-YC
		Rel-12	5DL CA with FDD-TDD CA_XA-YA-YC
	CA_XA-YA-YA-ZA-ZA	Rel-11	5DL CA with FDD CA_XA-YA-ZA-ZA
3		Rel-11	5DL CA with TDD CA_XA-YA-ZA-ZA
		Rel-12	5DL CA with FDD-TDD CA_XA-YA-YA-ZA-ZA
		Rel-11	5DL CA with FDD CA_XA-YA-ZA-RC
4	CA_XA-YA-ZA-RC	Rel-11	5DL CA with TDD CA_XA-YA-ZA-RC
		Rel-12	5DL CA with FDD-TDD CA_XA-YA-ZA-RC
		Rel-11	5DL CA with FDD CA_XA-YA-ZA-RA
4	CA_XA-YA-ZA-RA-RA	Rel-11	5DL CA with TDD CA_XA-YA-ZA-RA
		Rel-12	5DL CA with FDD-TDD CA_XA-YA-ZA-RA
		Rel-12	5DL CA with FDD CA_XA-YA-ZA-RA-SA
5	CA_XA-YA-ZA-RA-SA	Rel-12	5DL CA with TDD CA_XA-YA-ZA-RA-SA
		Rel-12	5DL CA with FDD-TDD CA_XA-YA-ZA-RA-SA

	nber of ands	5CA Band Combinations	Release for test applicability	Name	
Note 1:	1: X, Y, Z, R and S in this table correspond to different bands i.e. X != Y != Z != R != S.				
Note 2:	The band of	d combinations with difference appearance order of bands/sub-blocks in the band combination string are not distinguished. E.g. CA_XA-YA-YD represents			
	the set of C	set of CA_XA-YD-YA, YD-YA-XA, YA-XA-YD and YA-YD-XA.			

4.2 RRM conformance test cases

Table 4.2-1: Applicability of RRM conformance test cases, ref. TS 36.521-3 [2]

NOTE: To determine applicability of a test case, FGI support in combined or fdd-Add-UE-EUTRA-Capabilities or tdd-Add-UE-EUTRA-Capabilities is taken into account.

Clause	Title	Title Releas e		Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch		
E-UTRAN	RRC_IDLE State Mobility	•							
4.2.1	E-UTRAN FDD - FDD cell re- selection intra frequency case	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx		
4.2.2	E-UTRAN TDD - TDD cell re- selection intra frequency case	Rel-8	C02	UE supporting E-UTRA TDD			2Rx, 4Rx		
4.2.3	E-UTRAN FDD - FDD cell re- selection inter frequency case	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx		
4.2.4	E-UTRAN FDD - TDD cell re- selection inter frequency case	Rel-9	C03	UE supporting E-UTRA FDD and E-UTRA TDD			2Rx, 4Rx		
4.2.5	E-UTRAN TDD - FDD cell re- selection inter frequency case	Rel-9	C03	UE supporting E-UTRA FDD and E-UTRA TDD			2Rx, 4Rx		
4.2.6	E-UTRAN TDD - TDD cell re- selection inter frequency case	Rel-8	C02	UE supporting E-UTRA TDD			2Rx, 4Rx		
4.2.7	E-UTRAN FDD - FDD Inter frequency case in the existence of non-allowed CSG cell	Rel-9	C01	UE supporting E-UTRA FDD			2Rx, 4Rx		
4.2.8	E-UTRAN TDD - TDD Inter frequency case in the existence of non-allowed CSG cell	Rel-9	C02	UE supporting E-UTRA TDD			2Rx, 4Rx		
4.2.9	E-UTRAN FDD-FDD intra- frequency Cell Re-selection case for 5MHz bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31					
4.2.12	E-UTRAN FDD - FDD Intra frequency case for Cat-M1 UE in normal coverage	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE category M1					
4.2.13	E-UTRAN HD - FDD Intra frequency case for Cat-M1 UE in normal coverage	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE category M1					
4.2.14	E-UTRAN TDD - TDD Intra frequency case for Cat-M1 UE in normal coverage	Rel-13	C93a	UE supporting E-UTRA TDD and UE category M1					
4.2.15	E-UTRAN FDD - FDD Intra frequency case for Cat-M1 UE in enhanced coverage	Rel-13	C94e	UE supporting E-UTRA FD- FDD and (UE category M1 and CE Mode B)					
4.2.16	E-UTRAN HD - FDD Intra frequency case for Cat-M1 UE in enhanced coverage	Rel-13	C94f	UE supporting E-UTRA HD- FDD and (UE category M1 and CE Mode B)					
4.2.17	E-UTRAN TDD - TDD Intra frequency case for Cat-M1 UE in enhanced coverage	Rel-13	C93e	UE supporting E-UTRA TDD and (UE category M1 and CE Mode B)					

Clause	Title	Releas e		Applicability	Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
4.2.18	HD-FDD Cell Re-selection Intra frequency case for Category NB1 UE In-Band mode under Normal Coverage	Rel-13	C154	UE supporting category NB1				
4.2.19	HD – FDD Intra frequency case for UE Category NB1 In-Band mode in enhanced coverage	Rel-13	C154	UE supporting category NB1				
4.2.20	E-UTRAN FDD – FDD Intra frequency case for UE Category 1bis	Rel-13	C194	UE supporting E-UTRA FDD and UE Category 1bis				
4.2.21	E-UTRAN TDD – TDD Intra frequency case for UE Category 1bis	Rel-13	C195	UE supporting E-UTRA TDD and UE Category 1bis				
4.2.22	E-UTRAN FDD - FDD cell re- selection intra frequency case for UE configured with highSpeedEnhancedMeasFlag	Rel-14	C196	UEs supporting E-UTRA FDD and high speed enhancement for measurement				
4.2.23	E-UTRAN TDD - TDD cell re- selection intra frequency case for UE configured with highSpeedEnhancedMeasFlag	Rel-14	C197	UEs supporting E-UTRA TDD and high speed enhancement for measurement				
4.2.24	HD – FDD Inter frequency case for UE Category NB1 In-Band mode in normal coverage	Rel-13	C154	UE supporting category NB1				
4.2.31	E-UTRAN FDD – FDD Inter frequency case for UE Category 1bis	Rel-13	C01	UE supporting E-UTRA FDD and UE Category 1bis				
4.2.32	E-UTRAN FDD – TDD Inter frequency case for UE Category 1bis	Rel-13	C03a	UE supporting E-UTRA FDD and E-UTRA TDD and UE Category 1bis				
4.2.33	E-UTRAN TDD – FDD Inter frequency case for UE Category 1bis	Rel-13	C03a	UE supporting E-UTRA FDD and E-UTRA TDD and UE Category 1bis				
4.2.34	E-UTRAN TDD – TDD: Inter frequency case for UE Category 1bis	Rel-13	C02m	UE supporting E-UTRA TDD and UE Category 1bis				
4.3.1.1	E-UTRA FDD - UTRAN FDD cell re-selection	Rel-8	C04	UE supporting E-UTRA FDD and UTRA FDD			2Rx, 4Rx	
4.3.1.2	E-UTRA FDD - UTRAN FDD cell re-selection: UTRA FDD is of lower priority	Rel-8	C04	UE supporting E-UTRA FDD and UTRA FDD			2Rx, 4Rx	

Clause	Title	Releas e		Applicability	Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
4.3.1.3	E-UTRAN FDD - UTRAN FDD cell re-selection in fading propagation conditions: UTRA FDD is of lower priority	Rel-8	C04	UE supporting E-UTRA FDD and UTRA FDD			2Rx, 4Rx
4.3.1.4	E-UTRAN FDD - UTRAN FDD cell re-selection: UTRA FDD is of lower priority for 5MHz bandwidth	Rel-8	C53	UE supporting E-UTRA FDD and only E-UTRA Band 31 and UTRA FDD			
4.3.2	E-UTRAN FDD - UTRAN TDD cell re-selection	Rel-8	C06	UE supporting E-UTRA FDD and UTRA TDD		Rel-9 UTRA TDD	2Rx, 4Rx
4.3.3	E-UTRAN TDD - UTRAN FDD cell re-selection	Rel-8	C07	UE supporting E-UTRA TDD and UTRA FDD			2Rx, 4Rx
4.3.4.1	E-UTRA TDD - UTRAN TDD cell re-selection	Rel-8	C05	UE supporting E-UTRA TDD and UTRA TDD		Rel-9 UTRA TDD	2Rx, 4Rx
4.3.4.2	E-UTRAN TDD - UTRAN TDD cell re-selection: UTRA is of lower priority	Rel-8	C05	UE supporting E-UTRA TDD and UTRA TDD		Rel-9 UTRA TDD	2Rx, 4Rx
4.3.4.3	EUTRA TDD-UTRA TDD cell reselection in fading propagation conditions: UTRA TDD is of lower priority	Rel-8	C05	UE supporting E-UTRA TDD and UTRA TDD		Rel-9 UTRA TDD	2Rx, 4Rx
4.4.1	E-UTRAN FDD - GSM cell re- selection	Rel-8	C08	UE supporting E-UTRA FDD and GSM			2Rx, 4Rx
4.4.2	E-UTRAN TDD - GSM cell re- selection	Rel-8	C09	UE supporting E-UTRA TDD and GSM			2Rx, 4Rx
4.5.1.1	E-UTRAN FDD - HRPD Cell re- selection: HRPD is of lower priority	Rel-8	C10	UE supporting E-UTRA FDD and cdma2000 HRPD			2Rx, 4Rx
4.5.2.1	E-UTRAN TDD - HRPD Cell Reselection: HRPD is of Lower Priority	Rel-9	C34	UE supporting E-UTRA TDD and cdma2000 HRPD			2Rx, 4Rx
4.6.1.1	E-UTRAN FDD - cdma2000 1xRTT Cell re-selection: cdma2000 1x is of lower priority	Rel-8	C11	UE supporting E-UTRA FDD and cdma2000 1xRTT			2Rx, 4Rx
4.6.2.1	E-UTRAN TDD-cdma2000 1X Cell Reselection: cdma2000 1X is of Lower Priority	Rel-9	C35	UE supporting E-UTRA TDD and cdma2000 1xRTT			2Rx, 4Rx
E-UTRAN	RRC_CONNECTED State Mobility						
5.1.1	E-UTRAN FDD - FDD Handover intra frequency case	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx
5.1.2	E-UTRAN TDD - TDD Handover intra frequency case	Rel-8	C02	UE supporting E-UTRA TDD			2Rx, 4Rx

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
5.1.3	E-UTRAN FDD - FDD Handover inter frequency case	Rel-8	C01d	UE supporting E-UTRA FDD and Feature Group Indicators 5, 13 and 25			2Rx, 4Rx
5.1.3_2	E-UTRAN FDD – FDD Inter frequency handover for UE Category 1bis	Rel-13	C01dh	UE supporting E-UTRA FDD and UE Category 1bis and Feature Group Indicators 5, 13 and 25			
5.1.4	E-UTRAN TDD - TDD Handover inter frequency case	Rel-8	C02d	UE supporting E-UTRA TDD and Feature Group Indicators 5, 13 and 25			2Rx, 4Rx
5.1.4_2	E-UTRAN TDD – TDD Inter frequency handover for UE Category 1bis	Rel-13	C02dh	UE supporting E-UTRA TDD and UE Category 1bis and Feature Group Indicators 5, 13 and 25			
5.1.5	E-UTRAN FDD - FDD inter frequency handover: unknown target cell	Rel-8	C01a	UE supporting E-UTRA FDD and Feature Group Indicators 13 and 25			2Rx, 4Rx
5.1.5_2	E-UTRAN FDD – FDD Inter frequency handover: unknown target cell for UE Category 1bis	Rel-13	C01ah	UE supporting E-UTRA FDD and UE Category 1bis and Feature Group Indicators 13 and 25			
5.1.6	E-UTRAN TDD-TDD inter frequency handover: unknown target cell	Rel-8	C02a	UE supporting E-UTRA TDD and Feature Group Indicators 13 and 25			2Rx, 4Rx
5.1.6_2	E-UTRAN TDD – TDD Inter frequency handover: unknown Target Cell for UE Category 1bis	Rel-13	C02ah	UE supporting E-UTRA TDD and UE Category 1bis and Feature Group Indicators 13 and 25			
5.1.7	E-UTRAN FDD - TDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 5, 25 and 30			2Rx, 4Rx
5.1.7_2	E-UTRAN FDD – TDD Inter frequency handover for UE Category 1bis	Rel-13	C21a	UE supporting E-UTRA FDD and E-UTRA TDD and UE Category 1bis and Feature Group Indicators 5, 25 and 30			
5.1.8	E-UTRAN TDD - FDD handover inter frequency case	Rel-9	C21	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 5, 25 and 30			2Rx, 4Rx

Clause	Title	Title Releas e	Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
5.1.8_2	E-UTRAN TDD – FDD Inter frequency handover for UE Category 1bis	Rel-13	C21a	UE supporting E-UTRA FDD and E-UTRA TDD and UE Category 1bis and Feature Group Indicators 5, 25 and 30				
5.1.9	E-UTRAN FDD-FDD Intra frequency handover for 5MHz bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31				
5.1.10	E-UTRAN FDD-FDD Handover intra frequency handover for UE category 0	Rel-12	C94	UE supporting E-UTRA FD- FDD and UE Category 0				
5.1.11	E-UTRAN HD-FDD Handover intra frequency handover for UE category 0	Rel-12	C110	UE supporting E-UTRA HD- FDD and UE Category 0				
5.1.12	E-UTRAN TDD-TDD Handover intra frequency handover for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0				
5.1.13	E-UTRAN FDD-FDD Intra frequency handover for Cat-M1 UEs in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1				
5.1.14	E-UTRAN HD-FDD Intra frequency handover for Cat-M1 UEs in CEModeA	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1				
5.1.15	E-UTRAN TDD Intra frequency handover for Cat-M1 UEs in CEModeA	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1				
5.1.16	E-UTRAN FDD-FDD Intra frequency handover for Cat-M1 UEs in CEModeB	Rel-13	C94e	UE supporting E-UTRA FD- FDD and (UE Category M1 and CE Mode B)				
5.1.17	E-UTRAN HD-FDD Intra frequency handover for Cat-M1 UEs in CEModeB	Rel-13	C94f	UE supporting E-UTRA HD- FDD and (UE Category M1 and CE Mode B)				
5.1.18	E-UTRAN TDD Intra frequency handover for Cat-M1 UEs in CEModeB	Rel-13	C93e	UE supporting É-UTRA TDD and (UE Category M1 and CE Mode B)				
5.1.19	E-UTRAN FDD – FDD Intra frequency handover for UE Category 1bis	Rel-13	C194	UE supporting É-UTRA FDD and UE Category 1bis				
5.1.20	E-UTRAN TDD – TDD Intra frequency handover for UE Category 1bis	Rel-13	C195	UE supporting E-UTRA TDD and UE Category 1bis				

Clause	Title	Title Releas e	as Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
5.2.1	E-UTRAN FDD - UTRAN FDD handover	Rel-8	C04a	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 8 and 22			2Rx, 4Rx	
5.2.2	E-UTRAN TDD - UTRAN FDD handover	Rel-8	C07a	UE supporting E-UTRA TDD and UTRA FDD and Feature Group Indicators 8 and 22			2Rx, 4Rx	
5.2.3	E-UTRAN FDD - GSM handover	Rel-8	C08e	UE supporting E-UTRA FDD and GSM and inter- RAT PS handover to GERAN and Feature Group Indicators 9, 15 and 23			2Rx, 4Rx	
5.2.4	E-UTRAN TDD - UTRAN TDD handover	Rel-8	C05a	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 8 and 22		Rel-9 UTRA TDD	2Rx, 4Rx	
5.2.5	E-UTRAN FDD - UTRAN TDD handover	Rel-8	C06a	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 8 and 22		Rel-9 UTRA TDD	2Rx, 4Rx	
5.2.6	E-UTRA TDD - GSM handover	Rel-8	C09f	UE supporting E-UTRA TDD and GSM and inter- RAT PS handover to GERAN and Feature Group Indicators 9, 15 and 23			2Rx, 4Rx	
5.2.7	E-UTRAN FDD - UTRAN FDD handover: unknown target cell	Rel-8	C04a	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 8 and 22			2Rx, 4Rx	
5.2.8	E-UTRAN FDD - GSM handover: unknown target cell	Rel-8	C08a	UE supporting E-UTRA FDD and GSM and inter- RAT PS handover to GERAN and inter-RAT PS handover to GERAN and Feature Group Indicators 9 and 23			2Rx, 4Rx	
5.2.9	E-UTRAN TDD - GSM handover: unknown target cell	Rel-8	C09b	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 9 and 23			2Rx, 4Rx	

Clause	Title	Releas e	as Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
5.2.10	E-UTRAN TDD - UTRAN TDD handover: unknown target cell	Rel-8	C05a	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 8 and 22		Rel-9 UTRA TDD	2Rx, 4Rx	
5.2.11	E-UTRAN FDD - UTRAN FDD handover for 5MHz Bandwidth	Rel-8	C54	UE supporting E-UTRA FDD and only E-UTRA Band 31 and UTRA FDD and Feature Group Indicators 8 and 22				
5.3.1	E-UTRAN FDD - HRPD Handover	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26			2Rx, 4Rx	
5.3.2	E-UTRAN FDD - cdma2000 1xRTT handover	Rel-8	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24			2Rx, 4Rx	
5.3.3	E-UTRAN FDD - HRPD handover: unknown target cell	Rel-8	C10a	UE supporting E-UTRA FDD and cdma2000 HRPD and Feature Group Indicators 12 and 26			2Rx, 4Rx	
5.3.4	E-UTRAN FDD - cdma2000 1xRTT handover: unknown target cell	Rel-8	C11a	UE supporting E-UTRA FDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24			2Rx, 4Rx	
5.3.5	E-UTRAN TDD-HRPD Handover	Rel-9	C36	UE supporting E-UTRA TDD and cdma2000 HRPD and Feature Group Indicators 12 and 26.			2Rx, 4Rx	
5.3.6	E-UTRAN TDD-cdma2000 1X Handover	Rel-9	C37	UE supporting E-UTRA TDD and cdma2000 1xRTT and Feature Group Indicators 11 and 24.			2Rx, 4Rx	
RRC Con	nection Mobility Control							
6.1.1	E-UTRAN FDD Intra-frequency RRC Re-establishment	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx	
6.1.1_2	E-UTRAN FDD Intra-frequency RRC Re-establishment for UE Category 1bis	Rel-13	C01m	UE supporting E-UTRA FDD and UE Category 1bis				
6.1.2	E-UTRAN FDD Inter-frequency RRC Re-establishment	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25			2Rx, 4Rx	

Clause	Title	Title Releas e	as Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
6.1.2_2	E-UTRAN FDD Inter-frequency RRC Re-establishment for UE Category 1bis	Rel-13	C01n	UE supporting E-UTRA FDD and Feature Group Indicator 25 and UE Category 1bis				
6.1.3	E-UTRAN TDD Intra-frequency RRC Re-establishment	Rel-8	C02	UE supporting E-UTRA TDD			2Rx, 4Rx	
6.1.3_2	E-UTRAN TDD Intra-frequency RRC Re-establishment for UE Category 1bis	Rel-13	C02m	UE supporting E-UTRA TDD and UE Category 1bis				
6.1.4	E-UTRAN TDD Inter-frequency RRC Re-establishment	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25			2Rx, 4Rx	
6.1.4_2	E-UTRAN TDD Inter-frequency RRC Re-establishment for UE Category 1bis	Rel-13	C02n	UE supporting E-UTRA TDD and Feature Group Indicator 25 and UE Category 1bis				
6.1.5	E-UTRAN FDD Intra-frequency RRC Re-establishment for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31				
6.1.6	E-UTRAN FD-FDD Intra- frequency RRC Re-establishment for UE category 0	Rel-12	C94	UE supporting E-UTRA FD- FDD and UE Category 0				
6.1.7	E-UTRAN HD-FDD Intra- frequency RRC Re-establishment for UE category 0	Rel-12	C107	UE supporting E-UTRA HD- FDD and UE Category 0				
6.1.8	E-UTRAN TDD Intra-frequency RRC Re-establishment for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0				
6.1.9	E-UTRAN FD-FDD Intra- frequency RRC Re-establishment for Cat-M1 UE in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1				
6.1.10	E-UTRAN HD-FDD Intra- frequency RRC Re-establishment for Cat-M1 UE in CEModeA	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1				
6.1.11	E-UTRAN TDD Intra-frequency RRC Re-establishment for Cat-M1 UE in CEModeA	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1				
6.1.15	HD-FDD Intra-frequency RRC Reestablishment for category NB1 UE in In-Band mode under normal coverage	Rel-13	C162	UE supporting category NB1 and User plane CloT				

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
6.1.16	HD-FDD Inter-frequency RRC Reestablishment for category NB1 UE in In-Band mode under Enhanced Coverage	Rel-13	C162	UE supporting category NB1 and User plane CloT			
6.2.1	E-UTRAN FDD - Contention Based Random Access Test	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx
6.2.1_2	E-UTRAN FDD - Contention Based Random Access Test for UE Category 1bis	Rel-8	C01m	UE supporting E-UTRA FDD and UE Category 1bis			
6.2.2	E-UTRAN FDD - Non-Contention Based Random Access Test	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx
6.2.2_2	E-UTRAN FDD - Non-Contention Based Random Access Test for UE Category 1bis	Rel-8	C01m	UE supporting E-UTRA FDD and UE Category 1bis			
6.2.3	E-UTRAN TDD - Contention Based Random Access Test	Rel-8	C02	UE supporting E-UTRA TDD			2Rx, 4Rx
6.2.3_2	E-UTRAN TDD - Contention Based Random Access Test for UE Category 1bis	Rel-8	C02m	UE supporting E-UTRA TDD and UE Category 1bis			
6.2.4	E-UTRAN TDD - Non-Contention Based Random Access Test	Rel-8	C02	UE supporting E-UTRA TDD			2Rx, 4Rx
6.2.4_2	E-UTRAN TDD - Non-Contention Based Random Access Test for UE Category 1bis	Rel-8	C02m	UE supporting E-UTRA TDD and UE Category 1bis			
6.2.5	E-UTRAN FDD - Contention Based Random Access Test for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31			2Rx, 4Rx
6.2.6	E-UTRAN FDD - Non-Contention Based Random Access Test for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31			2Rx, 4Rx
6.2.7	E-UTRAN FDD - Non-Contention Based Random Access Test For SCell in sTAG	Rel-12	C61	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and multiple timing advances			2Rx, 4Rx
6.2.8	E-UTRAN TDD - Non-Contention Based Random Access Test For SCell in sTAG	Rel-12	C62	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances			2Rx, 4Rx
6.2.10	E-UTRAN FDD Contention Based Random Access Test for Cat-M1 UEs in Normal Coverage	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1			

Clause	Title	Releas e		Applicability		Additional Information	n
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
6.2.11	E-UTRAN HD-FDD Contention Based Random Access Test for Cat-M1 UEs in Normal Coverage	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1			
6.2.12	E-UTRAN TDD Contention Based Random Access Test for Cat-M1 UEs in Normal Coverage	Rel-13	C93a	UE supporting E-UTRA TDD and UE category M1			
6.2.13	E-UTRAN FDD - Contention Based Random Access Test for Cat-M1 UEs in Enhanced Coverage	Rel-13	C94e	U supporting E-UTRA FD- FDD and(UE Category M1 and CE Mode B)			
6.2.14	E-UTRAN HD-FDD - Contention Based Random Access Test for Cat-M1 UEs in Enhanced Coverage	Rel-13	C94f	UE supporting E-UTRA HD- FDD and(UE Category M1 and CE Mode B)			
6.2.15	E-UTRAN TDD - Contention Based Random Access Test for Cat-M1 UEs in Enhanced Coverage	Rel-13	C93e	UE supporting E-UTRA TDD and(UE Category M1 and CE Mode B)			
6.2.16	Contention Based Random Access Test for UE category NB1 UEs In-band mode in normal coverage	Rel-13	C154	UE supporting category NB1			
6.2.17	Contention Based Random Access Test for UE category NB1 UEs In-band mode in Enhanced Coverage	Rel-13	C154	UE supporting category NB1			
6.2.18	Contention Based Random Access on Non-anchor Carrier Test for UE category NB1 UEs In- band mode in Enhanced Coverage	Rel-14	C202	UE supporting category NB1 and supporting NPRACH on non-anchor carrier			
6.3.1	Redirection from E-UTRAN FDD to UTRAN FDD	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD			2Rx, 4Rx
6.3.1_2	Redirection from E-UTRAN FDD to UTRAN FDD for UE Category 1bis	Rel-9	C04h	UE supporting E-UTRA FDD and UTRA FDD and UE Category 1bis			
6.3.2	Redirection from E-UTRAN TDD to UTRAN FDD	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD			2Rx, 4Rx
6.3.2_2	Redirection from E-UTRAN TDD to UTRAN FDD for UE Category 1bis	Rel-9	C07d	UE supporting E-UTRA TDD and UTRA FDD and UE Category 1bis			

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
6.3.3	Redirection from E-UTRAN FDD to GERAN when System Information is provided	Rel-9	C27	UE supporting E-UTRA FDD and GERAN			2Rx, 4Rx
6.3.3_2	Redirection from E-UTRAN FDD to GERAN when System Information is provided for UE Category 1bis	Rel-9	C27a	UE supporting E-UTRA FDD and GERAN and UE Category 1bis			
6.3.4	Redirection from E-UTRAN TDD to GERAN when System Information is provided	Rel-9	C28	UE supporting E-UTRA TDD and GERAN			2Rx, 4Rx
6.3.4_2	Redirection from E-UTRAN TDD to GERAN when System Information is provided for UE Category 1bis	Rel-9	C28a	UE supporting E-UTRA TDD and GERAN and UE Category 1bis			
6.3.5	E-UTRA TDD RRC connection release redirection to UTRA TDD	Rel-9	C26	UE supporting E-UTRA TDD and UTRA TDD			2Rx, 4Rx
6.3.5_2	E-UTRA TDD RRC connection release redirection to UTRA TDD for UE Category 1bis	Rel-9	C26a	UE supporting E-UTRA TDD and UTRA TDD and UE Category 1bis			
6.3.6	E-UTRA FDD RRC connection release redirection to UTRA TDD	Rel-9	C25	UE supporting E-UTRA FDD and UTRA TDD			2Rx, 4Rx
6.3.6_2	E-UTRA FDD RRC connection release redirection to UTRA TDD for UE Category 1bis	Rel-9	C25a	UE supporting E-UTRA FDD and UTRA TDD and UE Category 1bis			
6.3.7	E-UTRA TDD RRC connection release redirection to UTRA TDD without SI provided	Rel-9	C26	UE supporting E-UTRA TDD and UTRA TDD			2Rx, 4Rx
6.3.7_2	E-UTRA TDD RRC connection release redirection to UTRA TDD without SI provided for UE Category 1bis	Rel-9	C26a	UE supporting E-UTRA TDD and UTRA TDD and UE Category 1bis			
6.3.8	E-UTRA FDD RRC connection release redirection to UTRA TDD without SI provided	Rel-9	C25	UE supporting E-UTRA FDD and UTRA TDD			2Rx, 4Rx
6.3.8_2	E-UTRA FDD RRC connection release redirection to UTRA TDD without SI provided for UE Category 1bis	Rel-9	C25a	UE supporting E-UTRA FDD and UTRA TDD and UE Category 1bis			
6.3.9	Redirection from E-UTRAN FDD to UTRAN FDD without System Information	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD			2Rx, 4Rx

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
6.3.9_2	Redirection from E-UTRAN FDD to UTRAN FDD without System Information for UE Category 1bis	Rel-9	C04h	UE supporting E-UTRA FDD and UTRA FDD and UE Category 1bis			
6.3.10	Redirection from E-UTRAN FDD to GERAN when System Information is not provided	Rel-9	C27	UE supporting E-UTRA FDD and GERAN			2Rx, 4Rx
6.3.10_2	Redirection from E-UTRAN FDD to GERAN when System Information is not provided for UE Category 1bis	Rel-9	C27a	UE supporting E-UTRA FDD and GERAN and UE Category 1bis			
6.3.11	Redirection from E-UTRAN TDD to GERAN when System Information is not provided	Rel-9	C28	UE supporting E-UTRA TDD and GERAN			2Rx, 4Rx
6.3.11_2	Redirection from E-UTRAN TDD to GERAN when System Information is not provided for UE Category 1bis	Rel-9	C28a	UE supporting E-UTRA TDD and GERAN and UE Category 1bis			
6.3.12	E-UTRAN TDD RRC connection release redirection to UTRAN FDD without SI provided	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD			2Rx, 4Rx
6.3.12_2	E-UTRAN TDD RRC connection release redirection to UTRAN FDD without SI provided for UE Category 1bis	Rel-9	C07d	UE supporting E-UTRA TDD and UTRA FDD and UE Category 1bis			
Timing ar	nd Signalling Characteristics						
7.1.1	E-UTRAN FDD - UE Transmit Timing Accuracy	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5			2Rx, 4Rx
7.1.1_1	E-UTRAN FDD - UE Transmit Timing Accuracy (Non DRx UE)	Rel-8 only	C23	UE supporting E-UTRA FDD but not supporting Feature Group Indicator 5			
7.1.1_2	E-UTRAN FDD - UE Transmit Timing Accuracy for UE category 1bis	Rel-13	C214	UE supporting E-UTRA FDD and Feature Group Indicator 5 and UE Category 1bis			
7.1.2	E-UTRAN TDD - UE Transmit Timing Accuracy	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5			2Rx, 4Rx
7.1.2_1	E-UTRAN TDD - UE Transmit Timing Accuracy (Non DRx UE)	Rel-8 only	C24	UE supporting E-UTRA TDD but not supporting Feature Group Indicator 5			

Clause	Title	Releas e	Releas Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
7.1.2_2	E-UTRAN TDD - UE Transmit Timing Accuracy for UE category 1bis	Rel-13	C207	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 1bis				
7.1.3	E-UTRAN FDD - UE Transmit Timing Accuracy Tests for SCell	Rel-11	C57	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and Feature Group Indicator 5				
7.1.3_1	E-UTRAN FDD - UE Transmit Timing Accuracy Tests for SCell (Release 12 and forward)	Rel-12	C57	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and Feature Group Indicator 5				
7.1.4	E-UTRAN TDD - UE Transmit Timing Accuracy Tests for SCell	Rel-11	C58	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and Feature Group Indicator 5	Either TC 7.1.4 or TC 7.1.4A shall be executed. (Note 1)			
7.1.4A	E-UTRAN TDD - UE Transmit Timing Accuracy Tests for SCell for 20 MHz +10 MHz bandwidth	Rel-11	C58a	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and Feature Group Indicator 5	Either TC 7.1.4 or TC 7.1.4A shall be executed. (Note 1)			
7.1.4_1	E-UTRAN TDD - UE Transmit Timing Accuracy Tests for SCell (Release 12 and forward)	Rel-12	C58	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and Feature Group Indicator 5				
7.1.5	E-UTRAN FDD - UE Transmit Timing Accuracy Tests for 5MHz Bandwidth	Rel-8	C56	UE supporting E-UTRA FDD and only E-UTRA Band 31 and Feature Group Indicator 5				
7.1.6	E-UTRAN FDD - UE Transmit Timing Accuracy Tests for SCell in sTAG	Rel-11	C63	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and multiple timing advances and Feature Group Indicator 5				
7.1.7	E-UTRAN TDD - UE Transmit Timing Accuracy Tests for SCell in sTAG	Rel-11	C64	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advance and Feature Group Indicator 5	Either TC 7.1.7 or TC 7.1.7A or TC 7.1.7B shall be executed. (Note 1)			

Clause	Title	Releas e	• •		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
7.1.7A	E-UTRAN TDD - UE Transmit Timing Accuracy Tests for SCell in sTAG for 20MHz +20MHz bandwidth	Rel-11	C64a	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advance and Feature Group Indicator 5	Either TC 7.1.7 or TC 7.1.7A or TC 7.1.7B shall be executed. (Note 1)			
7.1.7B	E-UTRAN TDD - UE Transmit Timing Accuracy Tests for SCell in sTAG for 20MHz +10MHz bandwidth	Rel-11	C64b	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advance and Feature Group Indicator 5	Either TC 7.1.7 or TC 7.1.7A or TC 7.1.7B shall be executed. (Note 1)			
7.1.10	E-UTRAN FDD - UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeA	Rel-13	C94b	UE supporting E-UTRA FD-FDD and UE Category M1 and Feature Group Indicator 5				
7.1.11	E-UTRAN HD-FDD - UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeA	Rel-13	C107c	UE supporting E-UTRA HD- FDD and UE Category M1 and Feature Group Indicator 5				
7.1.12	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeA	Rel-13	C93c	UE supporting E-UTRA TDD and UE Category M1 and Feature Group Indicator 5				
7.1.14	E-UTRAN FDD – UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeB	Rel-13	C94h	UE supporting E-UTRA FD- FDD and (UE category M1 and CE Mode B) and Feature Group Indicator 5				
7.1.15	E-UTRAN HD-FDD – UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeB	Rel-13	C94i	UE supporting E-UTRA HD- FDD and (UE category M1 and CE Mode B) and Feature Group Indicator 5				
7.1.16	E-UTRAN TDD – UE Transmit Timing Accuracy Tests for Cat-M1 UE in CEModeB	Rel-13	C93k	UE supporting E-UTRA TDD and (UE category M1 and CE Mode B) and Feature Group Indicator 5				
7.1.17	HD-FDD Transmit Timing Accuracy Test for Category NB1 UE In-Band mode under Normal Coverage	Rel-13	C154	UE supporting category NB1				
7.1.18	HD-FDD Transmit Timing Accuracy Test for Category NB1 UE In-band mode under Enhanced Coverage	Rel-13	C155	UE supporting category NB1 and Feature Group Indicators 5				

Clause	Title	Title Releas e		• • • • • • • • • • • • • • • • • • • •		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch		
7.2.1	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx		
7.2.1_2	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy for UE category 1bis	Rel-13	C194	UE supporting E-UTRA FDD and UE Category 1bis					
7.2.2	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy	Rel-8	C02	UE supporting E-UTRA TDD			2Rx, 4Rx		
7.2.2_2	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy for UE category 1bis	Rel-13	C195	UE supporting E-UTRA TDD and UE Category 1bis					
7.2.3	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy Test for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31					
7.2.4	E-UTRAN FDD - UE Timing Advance Adjustment Accuracy Test For SCell in sTAG	Rel-12	C61	UE supporting E-UTRA FDD and Uplink Carrier Aggregation and multiple timing advances					
7.2.5	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy Test For SCell in sTAG	Rel-11	C62	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances	Either TC 7.2.5 or TC 7.2.5A or TC 7.2.5B shall be executed. (Note 1)				
7.2.5A	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy Test for SCell in sTAG for 20MHz +20MHz bandwidth	Rel-11	C62a	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances	Either TC 7.2.5 or TC 7.2.5A or TC 7.2.5B shall be executed. (Note 1)				
7.2.5B	E-UTRAN TDD - UE Timing Advance Adjustment Accuracy Test for SCell in sTAG for 20MHz +10MHz bandwidth	Rel-11	C62b	UE supporting E-UTRA TDD and Uplink Carrier Aggregation and multiple timing advances	Either TC 7.2.5 or TC 7.2.5A or TC 7.2.5B shall be executed. (Note 1)				
7.2.6	E-UTRAN FDD Timing Advance Adjustment Accuracy Test for Cat- M1 UE in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1					
7.2.7	E-UTRAN HD-FDD UE Timing Advance Adjustment Accuracy Test for Cat-M1 UE in CEModeA	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1					
7.2.8	E-UTRAN TDD Timing Advance Adjustment Accuracy Test for Cat- M1 UE in CEModeA	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1					

Clause	Title	Title Releas e	Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
7.2.9	HD-FDD UE Timing Advance Adjustment Accuracy Test for Category NB1 UE in Standalone Mode under Enhance Coverage	Rel-13	C154	UE supporting category NB1				
7.2.10	E-UTRAN FDD UE Timing Advance Adjustment Accuracy Test in CEModeB	Rel-13	C94e	U supporting E-UTRA FD- FDD and (UE Category M1 and CE Mode B)				
7.2.11	E-UTRAN HD-FDD UE Timing Advance Adjustment Accuracy Test in CEModeB	Rel-13	C94f	UE supporting E-UTRA HD- FDD and (UE Category M1 and CE Mode B)				
7.2.12	E-UTRAN TDD UE Timing Advance Adjustment Accuracy Test in CEModeB	Rel-13	C93e	UE supporting E-UTRA TDD and (UE Category M1 and CE Mode B)				
7.3.1	E-UTRAN FDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C01i	UE supporting E-UTRA FDD but not 4Rx antenna ports on all supported FDD operating bands				
7.3.1_1	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync with 4 Rx antenna ports	Rel-10	C140	UE supporting E-UTRA FDD and 4Rx antenna ports on all supported FDD operating bands				
7.3.2	E-UTRAN FDD Radio Link Monitoring Test for In-Sync	Rel-8	C01i	UE supporting E-UTRA FDD but not 4Rx antenna ports on all supported FDD operating bands				
7.3.2_1	E-UTRAN FDD Radio Link Monitoring Test for In-Sync with 4 Rx antenna ports	Rel-10	C140	UE supporting E-UTRA FDD and 4Rx antenna ports on all supported FDD operating bands				
7.3.3	E-UTRAN TDD Radio Link Monitoring Test for Out-of-Sync	Rel-8	C02a	UE supporting E-UTRA TDD but not 4Rx antenna ports on all supported TDD operating bands				
7.3.3_1	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync with 4 Rx antenna ports	Rel-10	C143	UE supporting E-UTRA TDD and 4Rx antenna ports on all supported TDD operating bands				
7.3.4	E-UTRAN TDD Radio Link Monitoring Test for In-Sync	Rel-8	C02i	UE supporting E-UTRA TDD but not 4Rx antenna ports on all supported TDD operating bands				

Clause	Title	Releas e			Additional Information		
		6	Condition	Comments	Number of TC Executions	Release on other RAT	Branch
7.3.4_1	E-UTRAN TDD Radio Link Monitoring Test for In-sync with 4 Rx antenna ports	Rel-10	C143	UE supporting E-UTRA TDD and 4Rx antenna ports on all supported TDD operating bands			
7.3.5	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C01j	UE supporting E-UTRA FDD but not 4Rx antenna ports on all supported FDD operating bands and Feature Group Indicator 5			
7.3.5_1	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync in DRX with 4 Rx antenna ports	Rel-10	C181	UE supporting E-UTRA FDD and Feature Group Indicator 5 and 4Rx antenna ports on all supported FDD operating bands			
7.3.6	E-UTRAN FDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C01j	UE supporting E-UTRA FDD but not 4Rx antenna ports on all supported FDD operating bands and Feature Group Indicator 5			
7.3.6_1	E-UTRAN FDD Radio Link Monitoring Test for In-sync in DRX with 4 Rx antenna ports	Rel-10	C181	UE supporting E-UTRA FDD and 4Rx antenna ports on all supported FDD operating bands and Feature Group Indicator 5			
7.3.7	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX	Rel-8	C02j	UE supporting E-UTRA TDD but not 4Rx antenna ports on all supported TDD operating bands and Feature Group Indicator 5			
7.3.7_1	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX with 4 Rx antenna ports	Rel-10	C182	UE supporting E-UTRA TDD and 4Rx antenna ports on all supported TDD operating bands and Feature Group Indicator 5			
7.3.8	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX	Rel-8	C02j	UE supporting E-UTRA TDD but not 4Rx antenna ports on all supported TDD operating bands and Feature Group Indicator 5			

Clause	Title	Releas e	as Applicability		Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
7.3.8_1	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX with 4 Rx antenna ports	Rel-10	C182	UE supporting E-UTRA TDD and 4Rx antenna ports on all supported TDD operating bands and Feature Group Indicator 5			
7.3.9	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
7.3.10	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
7.3.11	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
7.3.12	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with Non MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
7.3.13	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (elCIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
7.3.14	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (elCIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
7.3.15	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (elCIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			

Clause	Title	Releas e	S Applicability		Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
7.3.16	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with MBSFN ABS (elCIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
7.3.17	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with CRS assistance information and Non MBSFN ABS (felCIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115			
7.3.18	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync under Time Domain Measurement Resource Restriction with CRS assistance information and Non MBSFN ABS (felCIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115			
7.3.19	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and Non- MBSFN ABS (felCIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115			
7.3.20	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and Non- MBSFN ABS (felCIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115			
7.3.21	E-UTRAN FDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and MBSFN ABS (felCIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115			
7.3.22	E-UTRAN TDD Radio Link Monitoring Test for In-sync under Time Domain Measurement Resource Restriction with CRS assistance information and MBSFN ABS (felCIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115			

Clause	Title	Releas e	•••		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
7.3.23	E-UTRAN FDD Radio Link Monitoring Test for Out-of-sync for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31				
7.3.24	E-UTRAN FDD Radio Link Monitoring Test for In-sync for 5MHz Bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31				
7.3.25	E-UTRAN FDD Radio Link Monitoring Test for In-sync in DRX for 5MHz Bandwidth	Rel-8	C56	UE supporting E-UTRA FDD and only E-UTRA Band 31 and Feature Group Indicator 5				
7.3.26	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync for UE category 0	Rel-12	C94	UE supporting E-UTRA FD- FDD and UE Category 0				
7.3.26_2	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync for UE Category 1bis	Rel-13	C194	UE supporting E-UTRA FD-FDD and UE Category 1bis				
7.3.27	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync for UE category 0	Rel-12	C94	UE supporting E-UTRA FD- FDD and UE Category 0				
7.3.27_2	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync for UE Category 1bis	Rel-13	C194	UE supporting E-UTRA FD- FDD and UE Category 1bis				
7.3.28	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category 0	Rel-12	C95	UE supporting E-UTRA FD- FDD and Feature Group Indicator 5 and UE Category 0				
7.3.28_2	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE Category 1bis	Rel-13	C214	UE supporting E-UTRA FD- FDD and Feature Group Indicator 5 and UE Category 1bis				
7.3.29	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync in DRX for UE category 0	Rel-12	C95	UE supporting E-UTRA FD- FDD and Feature Group Indicator 5 and UE Category 0				
7.3.29_2	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync in DRX for UE Category 1bis	Rel-13	C214	UE supporting E-UTRA FD- FDD and Feature Group Indicator 5 and UE Category 1bis				
7.3.30	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync for UE category 0	Rel-12	C110	UE supporting E-UTRA HD- FDD and UE Category 0				

Clause	Title	Releas e		Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
7.3.31	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync for UE category 0	Rel-12	C110	UE supporting E-UTRA HD- FDD and UE Category 0			
7.3.32	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category 0	Rel-12	C111	UE supporting E-UTRA HD- FDD and Feature Group Indicator 5 and UE Category 0			
7.3.33	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync in DRX for UE category 0	Rel-12	C111	UE supporting E-UTRA HD- FDD and Feature Group Indicator 5 and UE Category 0			
7.3.34	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0			
7.3.34_2	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync for UE Category 1bis	Rel-13	C195	UE supporting E-UTRA TDD and UE Category 1bis			
7.3.35	E-UTRAN TDD Radio Link Monitoring Test for In-sync for UE category 0	Rel-12	C93	UE supporting E-UTRA TDD and UE Category 0			
7.3.35_2	E-UTRAN TDD Radio Link Monitoring Test for In-sync for UE Category 1bis	Rel-13	C195	UE supporting E-UTRA TDD and UE Category 1bis			
7.3.36	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0			
7.3.36_2	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX for UE Category 1bis	Rel-13	C215	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 1bis			
7.3.37	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0			
7.3.37_2	E-UTRAN TDD Radio Link Monitoring Test for In-sync in DRX for UE Category 1bis	Rel-13	C215	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 1bis			

Clause	Title	Title Releas e	S Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
7.3.38	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for Out-of- sync in DRX in synchronous DC	Rel-12	C123b	UE supporting E-UTRA FDD and Dual Connectivity but not 4Rx antenna ports on all supported FDD operating bands				
7.3.38_1	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for Out-of- sync in DRX in synchronous DC with 4 Rx antenna ports	Rel-12	C185	UE supporting E-UTRA FDD and Dual Connectivity and 4Rx antenna ports on all supported FDD operating bands				
7.3.39	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for Out-of- sync in DRX in asynchronous DC	Rel-12	C125a	UE supporting E-UTRA FDD and asynchronous Dual Connectivity but not 4Rx antenna ports on all supported FDD operating bands				
7.3.39_1	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for Out-of- sync in DRX in asynchronous DC with 4 Rx antenna ports	Rel-12	C186	UE supporting E-UTRA FDD and asynchronous Dual Connectivity and 4Rx antenna ports on all supported FDD operating bands				
7.3.40	E-UTRAN TDD-TDD DC Radio Link Monitoring Test for Out-of- sync in DRX in synchronous DC	Rel-12	C124	UE supporting E-UTRA TDD and Dual Connectivity				
7.3.41	E-UTRAN FDD-FDD Radio Link Monitoring Test for In-sync in DRX in synchronous dual connectivity	Rel-12	C123	UE supporting E-UTRA FDD and Dual Connectivity				
7.3.42	E-UTRAN FDD-FDD DC Radio Link Monitoring Test for In-sync in DRX in asynchronous DC	Rel-12	C125	UE supporting E-UTRA FDD and asynchronous Dual Connectivity				
7.3.43	E-UTRAN TDD-TDD Radio Link Monitoring Test for In-sync in DRX in synchronous dual connectivity	Rel-12	C124	UE supporting E-UTRA TDD and Dual Connectivity				
7.3.44	E-UTRAN TDD-FDD DC Radio Link Monitoring Test for Out-of- sync in DRX in synchronous DC with PCell in FDD	Rel-12	C123a	UE supporting E-UTRA FDD and E-UTRA TDD and Dual Connectivity				
7.3.45	E-UTRAN TDD-FDD DC Radio Link Monitoring Test for Out-of- sync in DRX in synchronous DC with PCell in TDD	Rel-12	C123a	UE supporting E-UTRA FDD and E-UTRA TDD and Dual Connectivity				

Clause	Title	Releas e		Applicability	,	Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
7.3.46	E-UTRAN TDD-FDD Radio Link Monitoring Test for In-sync in DRX for PSCell in synchronous DC with PCell in FDD	Rel-12	C123a	UE supporting E-UTRA FDD and E-UTRA TDD and Dual Connectivity			
7.3.47	E-UTRAN TDD-FDD Radio Link Monitoring Test for In-sync in DRX for PSCell in synchronous DC with PCell in TDD	Rel-12	C123a	UE supporting E-UTRA FDD and E-UTRA TDD and Dual Connectivity			
7.3.48	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync for Cat-M1 UE in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1			
7.3.49	E-UTRAN FD-FDD Radio Link Monitoring Test for In-Sync for Cat-M1 UE in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1			
7.3.50	E-UTRAN FD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category M1 configured in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1			
7.3.51	E-UTRAN FD-FDD Radio Link Monitoring Test for In-sync in DRX for UE Category M1 configured in CEMode A	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1			
7.3.52	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category CAT-M1	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1			
7.3.53	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync for UE category CAT-M1	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1			
7.3.54	E-UTRAN HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category M1 configured in CEMode A	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1			
7.3.55	E-UTRAN HD-FDD Radio Link Monitoring Test for In-sync in DRX for UE Category M1 configured in CEMode A	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1			
7.3.56	E-UTRAN TDD Radio Link Monitoring Test for Out-of-sync for Cat-M1 UE in CEMode A	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1			
7.3.57	E-UTRAN TDD Radio Link Monitoring Test for In-Sync for Cat-M1 UE in CEMode A	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1			

Clause	Title	Releas e		Applicability	,	Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
7.3.58	E- UTRAN TDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category M1 configured in CEMode A	Rel-13	C93c	UE supporting E-UTRA TDD and UE Category M1 and Feature Group Indicator 5			
7.3.59	E- UTRAN TDD Radio Link Monitoring Test for In-sync in DRX for UE category M1 configured in CEMode A	Rel-13	C93c	UE supporting E-UTRA TDD and UE Category M1 and Feature Group Indicator 5			
7.3.60	HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category NB1 In-band mode in normal coverage	Rel-13	C155	UE supporting category NB1 and Feature Group Indicators 5			
7.3.61	HD-FDD Radio Link Monitoring Test for Out-of-sync in DRX for UE category NB1 In-band mode in Enhanced Coverage	Rel-13	C155	UE supporting category NB1 and Feature Group Indicators 5			
7.3.62	HD-FDD Radio Link Monitoring Test for In-sync with DRX for UE Category NB1 In-Band mode in Enhanced Coverage	Rel-13	C155	UE supporting category NB1 and Feature Group Indicators 5			
7.3.63	HD-FDD Radio Link Monitoring Test for In-sync with DRX for UE Category NB1 In-Band mode in Normal Coverage	Rel-13	C155	UE supporting category NB1 and Feature Group Indicators 5			
7.3.64	HD-FDD Radio Link Monitoring Test for In-sync without DRX for UE Category NB1 In-Band mode in Normal Coverage	Rel-13	C154	UE supporting category NB1			
7.3.65	HD-FDD Radio Link Monitoring Test for In-sync without DRX for UE Category NB1 In-Band mode in Enhanced Coverage	Rel-13	C154	UE supporting category NB1			
7.3.66	HD-FDD Radio Link Monitoring Test for Out-of-sync without DRX for UE Category NB1 Standalone mode in Normal Coverage	Rel-13	C154	UE supporting category NB1			
7.3.67	HD-FDD Radio Link Monitoring Test for Out-of-sync without DRX for UE Category NB1 guard band mode in Enhanced Coverage	Rel-13	C154	UE supporting category NB1			

Clause	Title	Releas e		Applicability	A	Additional Information	n
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
7.4.1	E-UTRAN FDD-FDD DC interruption at transitions between active and non-active during DRX in synchronous DC	Rel-12	C175	UE supporting E-UTRA FDD, Dual Connectivity and Feature Group Indicator 5	It is not necessary for DC ASYNCH UEs to be tested in this test if 7.4.3 case is executed. (Note 2)		
7.4.2	E-UTRAN TDD-TDD DC interruption at transitions between active and non-active during DRX in synchronous DC	Rel-12	C136	UE supporting E-UTRA TDD, Dual Connectivity and Feature Group Indicator 5	It is not necessary for DC ASYNCH UEs to be tested in this test if 7.4.4 case is executed. (Note 2)		
7.4.3	E-UTRAN FDD-FDD Interruption at transitions between active and non-active during DRX in asynchronous dual connectivity	Rel-12	C135	UE supporting E-UTRA FDD, Dual Connectivity Asynch and Feature Group Indicator 5			
7.6.1	E-UTRAN FDD-TDD CA interruption at SRS carrier based switching	Rel-14	C200	UE supporting E-UTRA FDD and TDD CA with FDD as PCell and SRS switching between component carriers			
7.6.2	E-UTRAN TDD-TDD CA interruption at SRS carrier based switching	Rel-14	C201	UE supporting E-UTRA TDD CA and SRS switching between component carriers			
UE Meas	urements Procedures						
8.1.1	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01	UE supporting E-UTRA FDD			2Rx, 4Rx
8.1.2	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5			2Rx, 4Rx
8.1.3	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C01c	UE supporting E-UTRA FDD and Feature Group Indicator 5			2Rx, 4Rx
8.1.4	Void						

Clause	Title	Releas e		Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.1.5	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C13	UE supporting E-UTRA FDD and intra-frequency SI acquisition in FDD for HO			2Rx, 4Rx
8.1.6	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C13	UE supporting E-UTRA FDD and intra-frequency SI acquisition in FDD for HO			2Rx, 4Rx
8.1.7	E-UTRAN FDD-FDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
8.1.8	E-UTRAN FDD-FDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115			
8.1.9	E-UTRAN FDD-FDD intra frequency event triggered reporting under fading propagation conditions in asynchronous cells for 5MHz bandwidth	Rel-8	C49	UE supporting E-UTRA FDD and only E-UTRA Band 31			
8.1.10	E-UTRAN FDD-FDD intra frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for 5MHz bandwidth	Rel-8	C56	UE supporting E-UTRA FDD and only E-UTRA Band 31 and Feature Group Indicator 5			
8.1.11	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 0	Rel-12	C94	UE supporting E-UTRA FD-FDD and UE Category 0			

Clause	Title	Releas e		Applicability		Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.1.11_1	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 1bis	Rel-13	C194	UE supporting E-UTRA FDD and UE Category 1bis			
8.1.11_2	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 1bis	Rel-13	C194	UE supporting E-UTRA FDD and UE Category 1bis			
8.1.12	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 0	Rel-12	C95	UE supporting E-UTRA FD- FDD and Feature Group Indicator 5 and UE Category 0			
8.1.12_1	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 1bis	Rel-13	C194a	UE supporting E-UTRA FDD and Feature Group Indicator 5 and UE Category 1bis			
8.1.12_2	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 1bis	Rel-13	C194a	UE supporting E-UTRA FDD and Feature Group Indicator 5 and UE Category 1bis			
8.1.13	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 0	Rel-12	C95	UE supporting E-UTRA FD- FDD and Feature Group Indicator 5 and UE Category 0			
8.1.13_1	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 1bis	Rel-13	C194a	UE supporting E-UTRA FDD and Feature Group Indicator 5 and UE Category 1bis			

Clause	Title	Releas e		Applicability	,	Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.1.13_2	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 1bis	Rel-13	C194a	UE supporting E-UTRA FDD and Feature Group Indicator 5 and UE Category 1bis			
8.1.14	E-UTRAN HD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 0	Rel-12	C112	UE supporting E-UTRA HD- FDD and Feature Group Indicator 5 and UE Category 0			
8.1.15	E-UTRAN HD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 0	Rel-12	C112	UE supporting E-UTRA HD- FDD and Feature Group Indicator 5 and UE Category 0			
8.1.16	E-UTRAN HD-FDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 0	Rel-12	C112	UE supporting E-UTRA HD- FDD and Feature Group Indicator 5 and UE Category 0			
8.1.17	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0			
8.1.17_1	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 1bis	Rel-13	C195a	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 1bis			
8.1.17_2	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 1bis	Rel-13	C195a	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 1bis			

Clause	Title	Releas e		Applicability	Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
8.1.18	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 0	Rel-12	C96	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 0				
8.1.18_1	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 1bis	Rel-13	C195a	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 1bis				
8.1.18_2	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX for UE category 1bis	Rel-13	C195a	UE supporting E-UTRA TDD and Feature Group Indicator 5 and UE Category 1bis				
8.1.19	E-UTRAN FD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 0	Rel-12	C108	UE supporting E-UTRA FD- FDD, CSG and intra- frequency SI acquisition in FDD for HO and Category 0				
8.1.19_2	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 1bis	Rel13	C108a	UE supporting E-UTRA FDD-FDD, CSG and intra- frequency SI acquisition in FDD for HO and Category 1bis				

Clause	Title	Releas e	= = =		•	Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.1.20	E-UTRAN FDD – FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 0	Rel-12	C108	UE supporting E-UTRA FD-FDD, CSG and intra- frequency SI acquisition in FDD for HO and Category 0			
8.1.20_2	E-UTRAN FDD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 1bis	Rel-13	C108b	UE supporting E-UTRA FDD-FDD, CSG and intra- frequency SI acquisition in FDD for HO, Feature Group Indicator 5 and Category 1bis			
8.1.21	E-UTRAN HD - FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 0	Rel-12	C109	UE supporting E-UTRA HD- FDD, CSG and intra- frequency SI acquisition in FDD for HO and Category 0			
8.1.22	E-UTRAN HD- FDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 0	Rel-12	C109	UE supporting E-UTRA HD- FDD, CSG and intra- frequency SI acquisition in FDD for HO and Category 0			
8.1.23	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for Cat-M1 UE in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1			
8.1.24	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for Cat-M1 UE in CEModeA	Rel-13	C94a	UE supporting E-UTRA FD- FDD and UE Category M1			
8.1.25	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeA in DRX	Rel-13	C94b	UE supporting E-UTRA FD- FDD and UE Category M1 and Feature Group Indicator 5			

Clause	Title	Releas e	· · · · ·		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
8.1.26	E-UTRAN HD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for Cat-M1 UE in CEModeA	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1				
8.1.27	E-UTRAN HD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeA	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1				
8.1.28	E-UTRAN HD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeA in DRX	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1				
8.1.29	E-UTRAN TDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeA	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1				
8.1.30	E-UTRAN TDD intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeA in DRX	Rel-13	C93c	UE supporting E-UTRA TDD and UE Category M1 and Feature Group Indicator 5				
8.1.31	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for Cat-M1 UE in CEModeB	Rel-13	C94e	UE supporting E-UTRA FD- FDD and (UE category M1 and CE Mode B)				
8.1.32	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeB	Rel-13	C94e	UE supporting E-UTRA FD- FDD and (UE category M1 and CE Mode B)				

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.1.33	E-UTRAN HD-FDD Intra- frequency event triggered reporting under fading propagation conditions in asynchronous cells for Cat-M1 UE in CEModeB	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1			
8.1.34	E-UTRAN HD-FDD Intra- frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeB	Rel-13	C107a	UE supporting E-UTRA HD- FDD and UE Category M1			
8.1.35	E-UTRAN TDD Intra-frequency event triggered reporting under fading propagation conditions in synchronous cells for Cat-M1 UE in CEModeB	Rel-13	C93a	UE supporting E-UTRA TDD and UE Category M1			
8.1.36	E-UTRAN FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps for Cat-M1 UE in CEModeB	Rel-13	C94g	UE supporting E-UTRA FD- FDD and (UE Category M1 and CE Mode B) and intra- frequency SI acquisition for HO			
8.1.37	E-UTRAN FDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for Cat-M1 UE in CEModeB	Rel-13	C94g	UE supporting E-UTRA FD- FDD and (UE Category M1 and CE Mode B) and intra- frequency SI acquisition for HO			
8.1.40	E-UTRAN FDD-FDD intra- frequency event triggered reporting for UE configured with highSpeedEnhancedMeasFlag in synchronous cells	Rel-14	C205	UE supporting E-UTRA FDD and highspeed measurement enhancement and Feature Group Indicator 5			
8.2.1	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5			2Rx, 4Rx
8.2.2	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-8	C02c	UE supporting E-UTRA TDD and Feature Group Indicator 5			2Rx, 4Rx

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.2.3	E-UTRAN TDD - TDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C15	UE supporting E-UTRA TDD and intra-frequency SI acquisition in TDD for HO.			2Rx, 4Rx
8.2.4	E-UTRAN TDD - TDD Intra- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C15	UE supporting E-UTRA TDD and intra-frequency SI acquisition in TDD for HO			2Rx, 4Rx
8.2.5	E-UTRAN TDD-TDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
8.2.6	E-UTRAN TDD-TDD Intra- Frequency Event-Triggered Reporting under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115			
8.2.7	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 0	Rel-12	C113	UE supporting E-UTRA TDD, CSG. inter-frequency SI acquisition in TDD for HO and Feature Group Indicator 5 and UE Category 0			
8.2.7_2	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps for UE category 1bis	Rel-13	C195a	UE supporting E-UTRA TDD, intra-frequency SI acquisition in TDD for HO and Feature Group Indicator 5 and UE Category 1bis			
8.2.8	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 0	Rel-12	C113	UE supporting E-UTRA TDD, CSG. inter-frequency SI acquisition in TDD for HO and Feature Group Indicator 5 and UE Category 0			
8.2.8_2	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for UE category 1bis	Rel-13	C195a	UE supporting E-UTRA TDD, intra-frequency SI acquisition in TDD for HO and Feature Group Indicator 5 and UE Category 1bis			

Clause	Title	Releas	eleas Applicability e		ļ ,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.2.9	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps for Cat-M1 UE in CEModeB	Rel-13	C93f	UE supporting E-UTRA TDD and (UE Category M1 and CE Mode B) and intra- frequency SI acquisition for HO			
8.2.10	E-UTRAN TDD Intra-frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX for Cat-M1 UE in CEModeB	Rel-13	C93f	UE supporting E-UTRA TDD and (UE Category M1 and CE Mode B) and intra- frequency SI acquisition for HO			
8.3.1	E-UTRAN FDD-FDD inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25	It is not necessary for CA UEs to be tested in this test if 8.20.1 case is executed.		2Rx, 4Rx
8.3.1_2	E-UTRAN FDD-FDD inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells for UE category 1bis	Rel-13	C212	UE supporting E-UTRA FDD and Feature Group Indicator 25 and UE Category 1bis			
8.3.2	E-UTRAN FDD-FDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25			2Rx, 4Rx
8.3.2_2	E-UTRAN FDD-FDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells for UE category 1bis	Rel-13	C214	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25 and UE Category 1bis			
8.3.3	E-UTRAN FDD-FDD inter frequency event triggered reporting under AWGN propagation conditions in asynchronous cells with DRX when L3 filtering is used	Rel-8	C01e	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25			2Rx, 4Rx

Clause	Title	Releas e		Applicability	1	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.3.3_2	E-UTRAN FDD-FDD inter- frequency event triggered reporting under AWGN propagation conditions in asynchronous cells with DRX when L3 filtering is used for UE category 1bis	Rel-13	C194c	UE supporting E-UTRA FDD and Feature Group Indicators 5 and 25 and UE category 1bis			
8.3.4	E-UTRAN FDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C14	UE supporting E-UTRA FDD and inter-frequency SI acquisition in FDD for HO			2Rx, 4Rx
8.3.5	E-UTRAN FDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C14	UE supporting E-UTRA FDD and inter-frequency SI acquisition in FDD for HO			2Rx, 4Rx
8.3.6	E-UTRAN FDD-FDD Inter- frequency event triggered reporting without measurement gaps under AWGN propagation conditions in asynchronous cells	Rel-10	C47	UE supporting E-UTRA FDD and Feature Group Indicator 25 and Measurement without gaps			2Rx, 4Rx
8.3.7	E-UTRAN FDD-FDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells for Increased Carrier Monitoring without Reduced Performance Group	Rel-12	C01m	UE supporting E-UTRA FDD and Increased Carrier Monitoring and Feature Group Indicator 25			2Rx, 4Rx
8.3.8	FDD-FDD Inter-frequency correct reporting of measurement events with reduced performance group configured, non DRX	Rel-12	C01m	UE supporting E-UTRA FDD and Increased Carrier Monitoring and Feature Group Indicator 25			2Rx, 4Rx
8.3.9	FDD-FDD Inter-frequency correct reporting of measurement events with reduced performance group configured, DRX	Rel-12	C01n	UE supporting E-UTRA FDD and Increased Carrier Monitoring and Feature Group Indicator 5 and 25			2Rx, 4Rx
8.4.1	E-UTRAN TDD-TDD inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25	It is not necessary for CA UEs to be tested in this test if 8.20.2 case is executed.		2Rx, 4Rx

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.4.1_2	E-UTRAN TDD-TDD inter- frequency event triggered reporting under fading propagation conditions in synchronous cells for UE category 1bis	Rel-13	C213	UE supporting E-UTRA TDD and Feature Group Indicator 25 and UE Category 1bis			
8.4.2	E-UTRAN TDD-TDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25			2Rx, 4Rx
8.4.2_2	E-UTRAN TDD-TDD inter- frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells for UE category 1bis	Rel-13	C215	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25 and UE Category 1bis			
8.4.3	E-UTRAN TDD-TDD inter- frequency event triggered reporting under AWGN propagation conditions in synchronous cells with DRX when L3 filtering is used	Rel-8	C02e	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25			2Rx, 4Rx
8.4.3_2	E-UTRAN TDD-TDD inter- frequency event triggered reporting under AWGN propagation conditions in synchronous cells with DRX when L3 filtering is used for UE category 1bis	Rel-13	C195c	UE supporting E-UTRA TDD and Feature Group Indicators 5 and 25 and UE category 1bis			
8.4.4	E-UTRAN TDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C16	UE supporting E-UTRA TDD and inter-frequency SI acquisition in TDD for HO			2Rx, 4Rx
8.4.5	E-UTRAN TDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps with DRX	Rel-9	C16	UE supporting E-UTRA TDD and inter-frequency SI acquisition in TDD for HO			2Rx, 4Rx
8.4.6	E-UTRAN TDD-TDD Inter- frequency event triggered reporting for TDD UL/DL configuration 0	Rel-12	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25			2Rx, 4Rx

Clause	Title	Releas e			Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
8.4.6_2	E-UTRAN TDD-TDD Inter- frequency event triggered reporting for TDD UL/DL configuration 0 for UE category 1bis	Rel-13	C213	UE supporting E-UTRA TDD and Feature Group Indicator 25 and UE Category 1bis				
8.4.7	E-UTRAN TDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells for Increased Carrier Monitoring without Reduced Performance Group	Rel-12	C01o	UE supporting E-UTRA TDD and Increased Carrier Monitoring and Feature Group Indicator 25			2Rx, 4Rx	
8.5.1	E-UTRAN FDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04g	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.3 case is executed.		2Rx, 4Rx	
8.5.2	E-UTRAN FDD-UTRAN FDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8	C04f	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 19 and 22			2Rx, 4Rx	
8.5.3	E-UTRAN FDD - UTRAN FDD event triggered reporting when DRX is used under fading propagation conditions	Rel-8	C04d	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 5, 15 and 22			2Rx, 4Rx	
8.5.4	E-UTRAN FDD - UTRAN FDD enhanced cell identification under AWGN propagation conditions	Rel-9	C29	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 15			2Rx, 4Rx	
8.5.6	E-UTRAN FDD - UTRAN FDD event triggered reporting without measurement gaps under AWGN propagation conditions	Rel-10	C48	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicator 15 and 22 and Measurement without gaps			2Rx, 4Rx	
8.5.7	E-UTRAN FDD - UTRAN FDD event triggered reporting under fading propagation conditions for 5MHz bandwidth	Rel-8	C55	UE supporting E-UTRA FDD and only E-UTRA Band 31 and UTRA FDD and Feature Group Indicators 15 and 22				
8.6.1	E-UTRAN TDD-UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C07b	UE supporting E-UTRA TDD and UTRA FDD and Feature Group Indicators 15 and 22			2Rx, 4Rx	

Clause	Title	Releas e		Applicability	-	Additional Information	on
		-	Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.7.1	E-UTRAN TDD-UTRAN TDD event triggered reporting under fading propagation conditions	Rel-8 Only	C05b	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.4 case is executed.		2Rx, 4Rx
		Rel-9	C83	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD Feature Group Indicators 15 and 22	It is not necessary for CA UEs to be tested in this test if 8.20.4 case is executed.		2Rx, 4Rx
		Rel-9	C79	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 15 and 39	It is not necessary for CA UEs to be tested in this test if 8.20.4 case is executed		2Rx, 4Rx
8.7.2	E-UTRAN TDD - UTRAN TDD cell search when DRX is used under fading propagation conditions	Rel-8 Only	C05d	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 5, 15 and 22		Rel-9 UTRA TDD	2Rx, 4Rx
		Rel-9	C84	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 5, 15 and 22		Rel-9 UTRA TDD	2Rx, 4Rx
		Rel-9	C80	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 5, 15 and 39		Rel-9 UTRA TDD	2Rx, 4Rx
8.7.3	E-UTRAN TDD - UTRAN TDD SON ANR cell search reporting under AWGN propagation conditions	Rel-8 Only	C120	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 19 and 22		Rel-9 UTRA TDD	2Rx, 4Rx
		Rel-9	C121	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 22 and 37		Rel-9 UTRA TDD	2Rx, 4Rx
		Rel-9	C122	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 37 and 39		Rel-9 UTRA TDD	2Rx, 4Rx

Clause	Title	Releas e	Releas Applicability		,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.7.4	E-UTRAN TDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C79	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicator 15 and 39			2Rx, 4Rx
		Rel-9	C31	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicator 15 and 22			2Rx, 4Rx
3.8.1	E-UTRAN FDD-GSM event triggered reporting in AWGN	Rel-8	C08f	UE supporting E-UTRA FDD and GSM and Feature Group Indicator s 15 and 23			2Rx, 4Rx
3.8.2	E-UTRAN FDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C08d	UE supporting E-UTRA FDD and GSM and Feature Group Indicators 5, 15 and 23			2Rx, 4Rx
8.9.1	E-UTRAN FDD-UTRAN TDD event triggered reporting in fading propagation conditions	Rel-8 Only	C06b	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 15 and 22		Rel-9 UTRA TDD	2Rx, 4Rx
		Rel-9	C85	UE supporting E-UTRA FDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 15 and 22		Rel-9 UTRA TDD	2Rx, 4Rx
		Rel-9	C77	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 15 and 39		Rel-9 UTRA TDD	2Rx, 4Rx
3.9.2	E-UTRAN FDD - UTRAN TDD enhanced cell identification under AWGN propagation conditions	Rel-9	C78	UE supporting E-UTRA FDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicator 15 and 22			2Rx, 4Rx
		Rel-9	C77	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 15 and 39			2Rx, 4Rx
8.10.1	E-UTRAN TDD-GSM event triggered reporting in AWGN	Rel-8	C09g	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 15 and 23			2Rx, 4Rx

Clause	Title	Releas	Releas Applicability e		,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.10.2	E-UTRAN TDD - GSM event triggered reporting when DRX is used in AWGN	Rel-8	C09e	UE supporting E-UTRA TDD and GSM and Feature Group Indicators 5, 15 and 23			2Rx, 4Rx
8.2.11	E-UTRAN TDD-TDD intra- frequency event triggered reporting for UE configured with highSpeedEnhancedMeasFlag in synchronous cells	Rel-14	C190	UEs supporting E-UTRA TDD and high speed enhancement for measurement			
8.11.1	Multiple E-UTRAN FDD-FDD Inter-frequency event triggered reporting under fading propagation conditions	Rel-8	C01b	UE supporting E-UTRA FDD and Feature Group Indicator 25			2Rx, 4Rx
8.11.2	E-UTRAN TDD - E-UTRAN TDD and E-UTRAN TDD Inter- frequency event triggered reporting under fading propagation conditions	Rel-8	C02b	UE supporting E-UTRA TDD and Feature Group Indicator 25			2Rx, 4Rx
8.11.3	E-UTRAN FDD-FDD Inter- frequency and UTRAN FDD event triggered reporting under fading propagation conditions	Rel-8	C04e	UE supporting E-UTRA FDD and UTRA FDD and Feature Group Indicators 22 and 25			2Rx, 4Rx
8.11.4	InterRAT E-UTRA TDD to E- UTRA TDD and UTRA TDD cell search	Rel-8 Only	C05e	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 22 and 25			2Rx, 4Rx
		Rel-9	C86	UE supporting E-UTRA TDD and UTRA TDD and not supporting UTRA FDD and Feature Group Indicators 22 and 25			2Rx, 4Rx
		Rel-9	C82	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 25 and 39			2Rx, 4Rx
8.11.5	Combined E-UTRAN FDD - E- UTRA FDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Rel-8	C08b	UE supporting E-UTRA FDD and GSM and Feature Group Indicator 23 and 25			2Rx, 4Rx

Clause	Title	Releas e		Applicability	Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.11.6	Combined E-UTRAN TDD - E- UTRA TDD and GSM cell search; E-UTRA cells in fading; GSM cell in static propagation conditions	Rel-8	C09a	UE supporting E-UTRA TDD and GSM and Feature Group Indicator 23 and 25			2Rx, 4Rx
8.12.1	Void						
8.13.1	Void						
8.14.1	E-UTRAN TDD-FDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-9	C22	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicator 25			2Rx, 4Rx
8.14.2	E-UTRAN TDD-FDD Inter- frequency event triggered reporting when DRX is used under fading propagation conditions in synchronous cells	Rel-9	C38	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 4 and 25			
8.14.3	E-UTRAN TDD - FDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39a	UE supporting E-UTRA FDD and E-UTRA TDD and inter-frequency SI acquisition in TDD for HO and Feature Group Indicator 25			2Rx, 4Rx
8.15.1	E-UTRAN FDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-9	C22	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicator 25			2Rx, 4Rx
8.15.2	E-UTRAN FDD-TDD Inter- frequency event triggered reporting when DRX is used under fading propagation conditions in asynchronous cells		C38	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 4 and 25			2Rx, 4Rx
8.15.3	E-UTRAN FDD - TDD Inter- frequency identification of a new CGI of E-UTRA cell using autonomous gaps	Rel-9	C39	UE supporting E-UTRA FDD and E-UTRA TDD and inter-frequency SI acquisition in FDD for HO and Feature Group Indicator 25			2Rx, 4Rx

Clause	Title	Releas e		Applicability	Additional Information		
		•	Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.1	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)		2Rx, 4Rx
8.16.2	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)		2Rx, 4Rx
8.16.3	E-UTRAN FDD-FDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)		2Rx, 4Rx
8.16.4	E-UTRANTDD-TDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)		2Rx, 4Rx
8.16.5	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 20 MHz bandwidth	Rel-10	C32c	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)		2Rx, 4Rx
8.16.6	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 20 MHz bandwidth	Rel-10	C33c	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.7	E-UTRA FDD event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 20 MHz bandwidth	Rel-10	C32c	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)		2Rx, 4Rx
8.16.8	E-UTRAN TDD Event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 20 MHz bandwidth	Rel-10	C33c	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)		2Rx, 4Rx
8.16.9	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 10MHz+5MHz	Rel-11	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)		2Rx, 4Rx
8.16.10	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 10MHz+5MHz	Rel-11	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)		2Rx, 4Rx
8.16.11	E-UTRAN FDD event triggered reporting on deactivating SCell with PCell interruption in non-DRX for 10MHz+5MHz	Rel-11	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)		2Rx, 4Rx
8.16.12	E-UTRAN TDD event triggered reporting on deactivating SCell with PCell interruption in non-DRX for 10MHz+5MHz	Rel-11	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	Additional Information		on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.13	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX for 5 MHz+5MHz	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.1 or TC 8.16.5 or TC 8.16.9 or TC 8.16.13 shall be executed. (Note 1)		2Rx, 4Rx
8.16.14	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 5 MHz+5MHz	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)		2Rx, 4Rx
8.16.15	E-UTRA FDD event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 5MHz+5MHz bandwidth	Rel-10	C32	UE supporting E-UTRA FDD and CA and Feature Group Indicator 111	Either TC 8.16.3 or TC 8.16.7 or TC 8.16.11 or TC 8.16.15 shall be executed. (Note 1)		2Rx, 4Rx
8.16.16	E-UTRA TDD event triggered reporting on deactivated SCell with PCell interruption in non-DRX for 5MHz+5MHz bandwidth	Rel-10	C33	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)		2Rx, 4Rx
8.16.17	E-UTRAN FDD activation and deactivation of known SCell in non-DRX	Rel-10	C32b	UE supporting E-UTRA FDD and CA and Feature Group Indicator 25	Either TC 8.16.17 or TC 8.16.17A shall be executed. (Note 1)		2Rx, 4Rx
8.16.17A	E-UTRAN FDD activation and deactivation of known SCell in non-DRX for 20MHz +20MHz bandwidth	Rel-10	C32a	UE supporting E-UTRA FDD and CA and Feature Group Indicator 25	Either TC 8.16.17 or TC 8.16.17A shall be executed. (Note 1)		
8.16.18	E-UTRAN TDD activation and deactivation of known SCell in non-DRX	Rel-10	C33b	UE supporting E-UTRA TDD and CA and Feature Group Indicator 25	Either TC 8.16.18 or TC 8.16.18A shall be executed. (Note 1)		2Rx, 4Rx
8.16.18A	E-UTRAN TDD activation and deactivation of known SCell in non-DRX for 20MHz +20MHz bandwidth	Rel-10	C33a	UE supporting E-UTRA TDD and CA and Feature Group Indicator 25	Either TC 8.16.18 or TC 8.16.18A shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas Applicability e		,	Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
8.16.21	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX for 20MHz+10MHz	Rel-10	C33d	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.2 or TC 8.16.6 or TC 8.16.10 or TC 8.16.14 or TC 8.16.21 shall be executed. (Note 1)		2Rx, 4Rx	
8.16.22	E-UTRAN TDD event triggered reporting on deactivating SCell with PCell interruption in non-DRX for 20MHz+10MHz	Rel-10	C33d	UE supporting E-UTRA TDD and CA and Feature Group Indicator 111	Either TC 8.16.4 or TC 8.16.8 or TC 8.16.12 or TC 8.16.16 or TC 8.16.22 shall be executed. (Note 1)		2Rx, 4Rx	
8.16.23	E-UTRAN TDD-FDD CA event triggered reporting under deactivated SCell in non-DRX with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell and Feature Group Indicator 111			2Rx, 4Rx	
8.16.24	E-UTRAN TDD-FDD CA event triggered reporting under deactivated SCell in non-DRX with PCell in TDD	Rel-12	C68	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell and Feature Group Indicator 111			2Rx, 4Rx	
8.16.25	E-UTRAN TDD-FDD CA event triggered reporting on deactivated SCell with PCell interruption in non-DRX with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell and Feature Group Indicator 111			2Rx, 4Rx	
8.16.26	E-UTRAN TDD-FDD CA event triggered reporting on deactivated SCell with PCell interruption in non-DRX with PCell in TDD	Rel-12	C68	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell and Feature Group Indicator 111			2Rx, 4Rx	
8.16.27	E-UTRAN TDD-FDD 3 DL CA Event Triggered Reporting under Deactivated SCells in Non-DRX with PCell in FDD	Rel-12	C167	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and Feature Group Indicator 111			2Rx, 4Rx	
8.16.28	E-UTRAN TDD-FDD 3DL CA Event Triggered Reporting under Deactivated SCells in Non-DRX with PCell in TDD	Rel-12	C168	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and Feature Group Indicator 111			2Rx, 4Rx	

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.29	3DL FDD CA Event Triggered Reporting under Deactivated SCells in Non-DRX	Rel-10	C163	UE supporting E-UTRA FDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA			2Rx, 4Rx
		Rel-11	C164	UE supporting E-UTRA FDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx
3.16.30	3DL TDD CA Event Triggered Reporting under Deactivated SCells in Non-DRX	Rel-10	C165	UE supporting E-UTRA TDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA			2Rx, 4Rx
		Rel-11	C166	UE supporting E-UTRA TDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx
3.16.31	E-UTRAN TDD-FDD 3DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX and with PCell in FDD	Rel-12	C167	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and Feature Group Indicator 111			2Rx, 4Rx
3.16.32	E-UTRAN TDD-FDD 3DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX and with PCell in TDD	Rel-12	C168	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and Feature Group Indicator 111			2Rx, 4Rx
3.16.33	E-UTRAN FDD 3DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-10	C163	UE supporting E-UTRA FDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA			2Rx, 4Rx

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
		Rel-11	C164	UE supporting E-UTRA FDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx
8.16.34	E-UTRAN TDD 3 DL CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-10	C165	UE supporting E-UTRA TDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA			2Rx, 4Rx
		Rel-11	C166	UE supporting E-UTRA TDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx
8.16.35	E-UTRAN TDD-FDD 3 DL CA activation and deactivation of known SCell in non-DRX with PCell in FDD	Rel-12	C130	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.36	E-UTRAN TDD-FDD 3 DL CA activation and deactivation of known SCell in non-DRX with PCell in TDD	Rel-12	C131	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.37	3DL FDD CA activation and deactivation of known SCell in non-DRX	Rel-10	C91	UE supporting E-UTRA FDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25			2Rx, 4Rx
		Rel-11	Ce92	UE supporting E-UTRA FDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25			2Rx, 4Rx

Clause	Title	Releas e		Applicability	•	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.38	3DL TDD CA activation and deactivation of known SCell in non-DRX	Rel-10	C132	UE supporting E-UTRA TDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25			2Rx, 4Rx
		Rel-11	C133	UE supporting E-UTRA TDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25			2Rx, 4Rx
8.16.39	E-UTRA TDD-FDD 3DL CA Activation and Deactivation of Unknown SCell in Non-DRX with PCell in FDD	Rel-12	C130	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.40	E-UTRA TDD-FDD 3DL CA Activation and Deactivation of Unknown SCell in Non-DRX with PCell in TDD	Rel-12	C131	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.41	3DL FDD CA activation and deactivation of unknown SCell in non-DRX	Rel-10	C91	UE supporting E-UTRA FDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25			2Rx, 4Rx
		Rel-11	C92	UE supporting E-UTRA FDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25			2Rx, 4Rx

Clause	Title	Title Releas e	Applicability			Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.42	3DL TDD CA activation and deactivation of unknown SCell in non-DRX	Rel-10	C132	UE supporting E-UTRA TDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA and Feature Group Indicator 25			2Rx, 4Rx
		Rel-11	C133	UE supporting E-UTRA TDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA and Feature Group Indicator 25			2Rx, 4Rx
8.16.47	2DL/2UL FDD CA activation and deactivation of known PUCCH SCell without valid TA in non-DRX	Rel-13	C206	UE supporting E-UTRA FDD and CA and Feature Group Indicator 25 and PUCCH transmission on SCell in CA			2Rx, 4Rx
8.16.48	2DL/2UL TDD CA activation and deactivation of known PUCCH SCell without valid TA in non-DRX	Rel-13	C207	UE supporting E-UTRA TDD and CA and Feature Group Indicator 25 and PUCCH transmission on SCell in CA			2Rx, 4Rx
8.16.49	2DL/2UL TDD-FDD CA (FDD PCell) activation and deactivation of known PUCCH SCell without valid TA in non-DRX	Rel-13	C208	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell and Feature Group Indicator 25 and PUCCH transmission on SCell in CA			2Rx, 4Rx
8.16.50	2DL/2UL TDD-FDD CA (TDD PCell) activation and deactivation of known PUCCH SCell without valid TA in non-DRX	Rel-13	C209	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell and Feature Group Indicator 25 and PUCCH transmission on SCell in CA			2Rx, 4Rx

Clause	Title	Title Releas e		Applicability	1	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.51	4DL FDD CA Event Triggered Reporting with 3 deactivated SCells in Non-DRX	Rel-11	C156	UE supporting E-UTRA FDD and 4DL with interband CA, or 4DL with intraband contiguous and interband CA, or 4DL with intraband non-contiguous and interband CA, or 4DL with intraband non-contiguous and intraband contiguous CA, or 4DL with Intraband non-contiguous CA, or 4DL with Intraband non-contiguous CA and Feature Group Indicator 111			2Rx, 4Rx
8.16.52	4DL TDD CA Event Triggered Reporting with 3 deactivated SCells in Non-DRX	Rel-11	C161	UE supporting E-UTRA TDD and 4DL intra-band contiguous CA, or 4DL with inter-band CA, or 4DL with intra-band contiguous and inter-band CA, or 4DL with intra-band non-contiguous and inter-band CA, or 4DL with intra-band non- contiguous and intra-band contiguous CA or 4DL with Intra-band non-contiguous and Intra-band non- contiguous CA and Feature Group Indicator 111.			2Rx, 4Rx
8.16.53	4DL PCell in FDD CA Event Triggered Reporting with 3 Deactivated SCells in Non-DRX	Rel-12	C187	UE supporting E-UTRA FDD and TDD and 4DL CA with FDD as PCell and Feature Group Indicator 111			2Rx, 4Rx
8.16.54	4DL PCell in TDD CA Event Triggered Reporting with 3 Deactivated SCells in Non-DRX	Rel-12	C188	UE supporting E-UTRA FDD and TDD and 4DL CA with TDD as PCell and Feature Group Indicator 111			2Rx, 4Rx

Clause	Title	Title Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.55	4 DLFDD CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-12	C156	UE supporting E-UTRA FDD and 4DL with interband CA, or 4DL with intraband contiguous and interband CA, or 4DL with intraband non-contiguous and interband CA, or 4DL with intraband non-contiguous and intraband contiguous CA, or 4DL with Intraband non-contiguous CA, or 4DL with Intraband non-contiguous CA and Feature Group Indicator 111		2Rx, 4Rx	2Rx, 4Rx
8.16.56	4DL TDD CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-12	C189	UE supporting E-UTRA TDD and 4DL CA and Feature Group Indicator 111			2Rx, 4Rx
8.16.57	4DL FDD CA activation and deactivation of know SCell in non-DRX	Rel-11	C192	UE supporting E-UTRA FDD and 4DL with interband CA, or 4DL with intraband contiguous and interband CA, or 4DL with intraband non-contiguous and interband CA, or 4DL with intraband non-contiguous and intraband contiguous CA, or 4DL with Intraband non-contiguous CA, or 4DL with Intraband non-contiguous CA and Feature Group Indicator 25			2Rx, 4Rx

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.58	4DL TDD CA activation and deactivation of know SCell in non-DRX	Rel-11	C193	UE supporting E-UTRA TDD and 4DL with intra- band contiguous CA, or 4DL with inter-band CA, or 4DL with intra-band non- contiguous and inter-band CA, or 4DL with intra-band non-contiguous and intra- band contiguous CA, or 4DL with Intra-band non- contiguous and Intra-band non-contiguous CA, or 4DL with intra-band contiguous and inter-band contiguous and inter-band CA and Feature Group Indicator 25			2Rx, 4Rx
8.16.59	4DL PCell in FDD CA Activation and Deactivation of Known SCell in Non-DRX	Rel-12	C190	UE supporting E-UTRA FDD and TDD and 4DL CA with FDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.60	4DL PCell in TDD CA activation and deactivation of known SCell in non-DRX	Rel-12	C191	UE supporting E-UTRA FDD and TDD and 4DL CA with TDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.61	4DL FDD CA activation and deactivation of unknown SCell in non-DRX	Rel-11	C192	UE supporting E-UTRA FDD and 4DL with inter- band CA, or 4DL with intra- band CA, or 4DL with intra- band CA, or 4DL with intra- band non-contiguous and inter-band CA, or 4DL with intra-band non-contiguous and intra-band contiguous CA, or 4DL with Intra-band non-contiguous and Intra- band non-contiguous CA and Feature Group Indicator 25			2Rx, 4Rx

Clause	Title	Releas e	S Applicability			Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.62	4DL TDD CA activation and deactivation of unknown SCell in non-DRX	Rel-11	C193	UE supporting E-UTRA TDD and 4DL with intra- band contiguous CA, or 4DL with inter-band CA, or 4DL with intra-band contiguous, or 4DL with intra-band non- contiguous and inter-band CA, or 4DL with intra-band non-contiguous and intra- band contiguous CA, or 4DL with Intra-band non- contiguous and Intra-band non-contiguous CA and inter-band CA and Feature Group Indicator 25			2Rx, 4Rx
8.16.63	4 DL PCell in FDD CA Activation and Deactivation of Unknown SCell in Non-DRX	Rel-12	C190	UE supporting E-UTRA FDD and TDD and 4DL CA with FDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.64	4DL Pcell in TDD CA activation and deactivation of unknown SCell in non-DRX	Rel-12	C191	UE supporting E-UTRA FDD and TDD and 4DL CA with TDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.65	5DL PCell in FDD CA Event Triggered Reporting with 4 Deactivated SCells in Non-DRX	Rel-11	C169	UE supporting E-UTRA FDD and TDD with FDD as PCell and 5DL with Intra- band contiguous and Inter- band CA, or 5DL with Intra- band non-contiguous and Inter-band CA and Feature Group Indicator 111			2Rx, 4Rx
		Rel-12	C170	UE supporting E-UTRA FDD and TDD with FDD as PCell and 5DL with Inter- band CA and Feature Group Indicator 111			2Rx, 4Rx

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.16.66	5DL PCell in TDD CA Event Triggered Reporting with 4 Deactivated SCells in Non-DRX	Rel-11	C169	UE supporting E-UTRA FDD and TDD with TDD as PCell and 5DL with Intra- band contiguous and Inter- band CA, or 5DL with Intra- band non-contiguous and Inter-band CA and Feature Group Indicator 111			2Rx, 4Rx
		Rel-12	C170	UE supporting E-UTRA FDD and TDD with TDD as PCell and 5DL with Inter- band CA and Feature Group Indicator 111			2Rx, 4Rx
8.16.67	5 DL FDD-TDD with PCell in FDD CA activation and deactivation of Unknown SCell in non-DRX	Rel-12	C190a	UE supporting E-UTRA FDD and TDD and 5DL CA with FDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.68	5 DL FDD-TDD with PCell in TDD CA activation and deactivation of Unknown SCell in non-DRX	Rel-12	C191a	UE supporting E-UTRA FDD and TDD and 5DL CA with TDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.69	5DL FDD CA activation and deactivation of unknown SCell in non-DRX	Rel-12	C75c	UE supporting E-UTRA FDD and 5DL CA and Feature Group Indicator 25			2Rx, 4Rx
8.16.70	5DL TDD CA activation and deactivation of unknown SCell in non-DRX	Rel-12	C76c	UE supporting E-UTRA TDD and 5DL CA and Feature Group Indicator 25			2Rx, 4Rx
8.16.71	5DL FDD CA Event Triggered Reporting with Deactivated SCells in Non-DRX	Rel-11	C171	UE supporting E-UTRA FDD and 5DL with Intra- band contiguous and Inter- band CA, or 5DL with Intra- band non-contiguous and Inter-band CA, or 5DL with Intra-band non-contiguous and Intra-band contiguous CA and Feature Group Indicator 111			2Rx, 4Rx
		Rel-12	C172	UE supporting E-UTRA FDD and 5DL with Inter- band CA and Feature Group Indicator 111			2Rx, 4Rx

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
	5DL TDD CA Event Triggered Reporting with Deactivated SCells in Non-DRX	Rel-11	C173	UE supporting E-UTRA TDD and 5DL with Intra- band contiguous and Inter- band CA, or 5DL with Intra- band non-contiguous and Inter-band CA, or 5DL with Intra-band non-contiguous and Intra-band contiguous CA and Feature Group Indicator 111			2Rx, 4Rx
		Rel-12	C174	UE supporting E-UTRA TDD and 5DL with Intra- band contiguous CA, or 5DL with Inter-band CA and Feature Group Indicator 111			2Rx, 4Rx
8.16.73	5DL FDD CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-12	C75d	UE supporting E-UTRA FDD and 5DL CA and Feature Group Indicator 111			2Rx, 4Rx
8.16.74	5DL TDD CA Event Triggered Reporting on Deactivated SCell with PCell and SCell Interruptions in Non-DRX	Rel-12	C76d	UE supporting E-UTRA TDD and 5DL CA and Feature Group Indicator 111			2Rx, 4Rx
8.16.75	5DL PCell in FDD CA activation and deactivation of known SCell in non-DRX	Rel-12	C190a	UE supporting E-UTRA FDD and TDD and 5DL CA with FDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.76	5DL PCell in TDD CA activation and deactivation of known SCell in non-DRX	Rel-12	C191a	UE supporting E-UTRA FDD and TDD and 5DL CA with TDD as PCell and Feature Group Indicator 25			2Rx, 4Rx
8.16.77	5DL FDD CA activation and deactivation of known SCell in non-DRX	Rel-12	C75c	UE supporting E-UTRA FDD and 5DL CA and Feature Group Indicator 25			2Rx, 4Rx
8.18.1	E-UTRAN TDD-HRPD event triggered reporting under fading propagation conditions	Rel-9	C40	UE supporting E-UTRA TDD and cdma2000 HRPD and Feature Group Indicator 15			2Rx, 4Rx
8.19.1	E-UTRAN TDD-CDMA2000 1X event triggered reporting under fading propagation conditions	Rel-9	C41	UE supporting E-UTRA TDD and cdma2000 1xRTT and Feature Group Indicator 15			2Rx, 4Rx

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.20.1	E-UTRAN FDD-FDD Inter- frequency event triggered reporting under fading propagation conditions in asynchronous cells	Rel-10	C18	UE supporting E-UTRA FDD and CA			2Rx, 4Rx
8.20.2	E-UTRAN TDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 8.20.2 or TC 8.20.2A or TC 8.20.2B shall be executed. (Note 1)		2Rx, 4Rx
8.20.2A	E-UTRAN TDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in synchronous cells for 20 MHz +20 MHz bandwidth	Rel-10	C19a	UE supporting E-UTRA TDD and CA	Either TC 8.20.2 or TC 8.20.2A or TC 8.20.2B shall be executed. (Note 1)		2Rx, 4Rx
8.20.2B	E-UTRAN TDD-TDD Inter- frequency event triggered reporting under fading propagation conditions in synchronous cells for 20 MHz +10 MHz bandwidth	Rel-10	C19b	UE supporting E-UTRA TDD and CA	Either TC 8.20.2 or TC 8.20.2A or TC 8.20.2B shall be executed. (Note 1)		2Rx, 4Rx
8.20.3	E-UTRAN FDD - UTRAN FDD event triggered reporting under fading propagation conditions	Rel-10	C43	UE supporting E-UTRA FDD, CA and UTRA FDD and Feature Group Indicator 15			2Rx, 4Rx
3.20.4	E-UTRAN TDD to UTRAN TDD cell search under fading propagation conditions	Rel-10	C44	UE supporting E-UTRA TDD, CA and UTRA TDD and Feature Group Indicator 15	Either TC 8.20.4 or TC 8.20.4A or TC 8.20.4B shall be executed. (Note 1)		2Rx, 4Rx
3.20.4A	E-UTRAN TDD to UTRAN TDD cell search under fading propagation conditions for 20 MHz + 20 MHz bandwidth	Rel-10	C44a	UE supporting E-UTRA TDD, CA and UTRA TDD and Feature Group Indicator 15	Either TC 8.20.4 or TC 8.20.4A or TC 8.20.4B shall be executed. (Note 1)		2Rx, 4Rx
8.20.4B	E-UTRAN TDD to UTRAN TDD cell search under fading propagation conditions for 20 MHz + 10 MHz bandwidth	Rel-10	C44b	UE supporting E-UTRA TDD, CA and UTRA TDD and Feature Group Indicator 15	Either TC 8.20.4 or TC 8.20.4A or TC 8.20.4B shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
8.22.1	E-UTRAN FDD-FDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells in DRX based on CRS based discovery signal	Rel-12	C01ch	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 5				
8.22.2	E-UTRAN TDD-TDD intra- frequency event triggered reporting under fading propagation conditions in synchronous cells with DRX	Rel-12	C02ch	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 5				
8.22.3	E-UTRAN FDD-FDD inter- frequency event triggered reporting under fading propagation conditions in DRX based on CRS based discovery signal	Rel-12	C01eh	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicators 5 and 25				
8.22.4	E-UTRAN TDD-TDD inter- frequency event triggered reporting under fading propagation conditions in DRX based on CRS based discovery signal	Rel-12	C02eh	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicators 5 and 25				
8.22.5	E-UTRAN FDD-FDD intra- frequency event triggered reporting in DRX based on CSI- RS based discovery signal	Rel-12	C97	UE supporting E-UTRA FDD and CSI-RS based discovery signals measurement and Feature Group Indicator 5				
8.22.6	E-UTRAN TDD-TDD intra- frequency event triggered reporting in DRX based on CSI- RS based discovery signal	Rel-12	C98	UE supporting E-UTRA TDD and CSI-RS based discovery signals measurement and Feature Group Indicator 5				
8.22.7	E-UTRAN FDD-FDD Inter- frequency event triggered reporting in DRX based on CSI- RS based discovery signal	Rel-12	C99	UE supporting E-UTRA FDD and CSI-RS based discovery signals measurement and Feature Group Indicators 5 and 25				

Clause	Title	Releas e		Applicability	Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
8.22.8	E-UTRAN TDD-TDD inter- frequency event triggered reporting under fading propagation condition in DRX based on CSI-RS based discovery signal	Rel-12	C100	UE supporting E-UTRA TDD and CSI-RS based discovery signals measurement and Feature Group Indicators 5 and 25				
8.22.9	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX based on CRS based discovery signal	Rel-12	C126	UE supporting E-UTRA FDD and CA and CRS based discovery signal measurement and Feature Group Indicators 111				
8.22.10	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX based on CRS based discovery signal	Rel-12	C126	UE supporting E-UTRA TDD and CA and CRS based discovery signal measurement and Feature Group Indicators 111				
8.22.11	E-UTRAN FDD event triggered reporting under deactivated SCell in non-DRX based on CSI-RS based discovery signal	Rel-12	C118	UE supporting E-UTRA FDD and CA and CSI-RS based discovery signal measurement				
8.22.12	E-UTRAN TDD event triggered reporting under deactivated SCell in non-DRX based on CSI-RS based discovery signal	Rel-12	C119	UE supporting E-UTRA TDD and CA and CSI-RS based discovery signal measurement				
8.23.1	E-UTRAN FDD-FDD DC intra- frequency event triggered reporting with DRX in synchronous DC	Rel-12	C134	UE supporting E-UTRA FDD, Dual Connectivity and Feature Group Indicator 5	It is not necessary for DC ASYNCH UEs to be tested in this test if 8.23.2 case is executed. (Note 2)			
8.23.2	E-UTRAN FDD-FDD DC intra- frequency event triggered reporting with DRX in asynchronous DC	Rel-12	C135	UE supporting E-UTRA FDD, Dual Connectivity Asynch and Feature Group Indicator 5				
8.23.3	E-UTRAN TDD-TDD DC intra- frequency event triggered reporting with DRX in synchronous DC	Rel-12	C136	UE supporting E-UTRA TDD, Dual Connectivity and Feature Group Indicator 5				

Clause	Title	Releas e		Applicability	4	Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.23.4	E-UTRAN FDD-FDD DC inter- frequency event triggered reporting with DRX in synchronous DC	Rel-12	C137	UE supporting E-UTRA FDD, Dual Connectivity and Feature Group Indicator 5 and 25	It is not necessary for DC ASYNCH UEs to be tested in this test if 8.23.5 case is executed. (Note 2)		
8.23.5	E-UTRAN FDD-FDD DC inter- frequency event triggered reporting with DRX in asynchronous DC	Rel-12	C138	UE supporting E-UTRA FDD, Dual Connectivity Asynch and Feature Group Indicator 5 and 25			
8.23.6	E-UTRAN TDD-TDD DC inter- frequency event triggered reporting with DRX in synchronous DC	Rel-12	C139	UE supporting E-UTRA TDD, Dual Connectivity and Feature Group Indicator 5 and 25			
8.23.7	E-UTRAN FDD-FDD Addition and Release Delay of known PSCell in Synchronous DC	Rel-12	C176	UE supporting E-UTRA FDD, Dual Connectivity	It is not necessary for DC ASYNCH UEs to be tested in this test if 8.23.2 case is executed. (Note 2)		
8.23.8	E-UTRAN FDD-FDD Addition and Release Delay of known PSCell in Asynchronous DC	Rel-12	C177	UE supporting E-UTRA FDD, Dual Connectivity Asynch			
8.23.9	E-UTRAN TDD Addition and Release Delay of known PSCell in Synchronous DC	Rel-12	C178	UE supporting E-UTRA TDD, Dual Connectivity			
8.25.1	E-UTRAN FDD-WLAN Event Triggered Reporting in non-DRX under AWGN	Rel-13	C179	UE supporting E-UTRA FDD and WLAN Aggregation			
8.25.2	E-UTRAN TDD-WLAN Event Triggered Reporting in non-DRX under AWGN	Rel-13	C180	UE supporting E-UTRA TDD and WLAN Aggregation			
8.26.1	E-UTRAN FDD-FS3 Activation and deactivation of known FS3 SCell with FDD PCell in non-DRX	Rel-13	C144	UE supporting E-UTRA FDD and downlink LAA with FDD as Pcell and Feature Group Indicator 25			
8.26.2	E-UTRAN TDD-FS3 Activation and deactivation of known FS3 SCell with TDD PCell in non-DRX	Rel-13	C159	UE supporting E-UTRA TDD and downlink LAA and Feature Group Indicator 25			

Clause	Title	Releas e		Applicability	<i>I</i>	Additional Information	
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
8.26.3	E-UTRAN FDD-FS3 Event triggered reporting on deactivated FS3 SCell and FDD PCell interruption in non-DRX	Rel-13	C145	UE supporting E-UTRA FDD and downlink LAA with FDD as Pcell and Feature Group Indicator 111	It is not necessary for LAA UEs to execute this test if 8.26.3A case is executed (Note 3)		
8.26.3A	E-UTRAN FDD-FS3 3DL Event triggered reporting on deactivated FS3 SCell and FDD PCell interruption in non-DRX	Rel-13	C145a	UE supporting E-UTRA FDD and downlink LAA with FDD as Pcell and Feature Group Indicator 111			
8.26.4	E-UTRAN TDD-FS3 Event triggered reporting on deactivated FS3 SCell and TDD PCell interruption in non-DRX	Rel-13	C160	UE supporting E-UTRA TDD and downlink LAA and Feature Group Indicator 111	It is not necessary for LAA UEs to execute this test if 8.26.4A case is executed (Note 3)		
8.26.4A	E-UTRAN TDD-FS3 3DL Event triggered reporting on deactivated FS3 SCell and TDD PCell interruption in non-DRX	Rel-13	C160a	UE supporting E-UTRA TDD and downlink LAA on two SCells and Feature Group Indicator 111			
8.26.5	E-UTRAN FDD-FS3 Intra- frequency event triggered reporting in non-DRX for CRS based discovery signal	Rel-13	C153	UE supporting E-UTRA FDD and downlink LAA with FDD as Pcell and CRS based discovery signals Feature Group Indicator 111	It is not necessary for LAA UEs to execute this test if 8.26.5A case is executed (Note 3)		
8.26.5A	E-UTRAN FDD-FS3 Intra- frequency event triggered reporting in non-DRX for CRS based discovery signal with 2 SCells	Rel-13	C153a	UE supporting E-UTRA FDD and downlink LAA with FDD as Pcell and CRS based discovery signals Feature Group Indicator 111			
8.26.6	E-UTRAN TDD-FS3 Intra- frequency event triggered reporting in non-DRX for CRS based discovery signal	Rel-13	C146	UE supporting E-UTRA TDD and downlink LAA and CRS based discovery signals and Feature Group Indicator 111	It is not necessary for LAA UEs to execute this test if 8.26.6A case is executed (Note 3)		

Clause	Title	Title Releas e			Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
8.26.6A	E-UTRAN TDD-FS3 Intra- frequency event triggered reporting in non-DRX for CRS based discovery signal with 2 SCells	Rel-13	C146a	UE supporting E-UTRA TDD and downlink LAA CRS based discovery signals and Feature Group Indicator 111				
8.26.7	E-UTRAN FDD-FS3 Intra- frequency event triggered reporting in DRX for CRS based discovery signal	Rel-13	C198	UE supporting E-UTRA FDD and downlink LAA with FDD as Pcell and Feature Group Indicators 5 and 111				
8.26.8	E-UTRAN TDD-FS3 Intra- frequency event triggered reporting in DRX for CRS based discovery signal	Rel-13	C199	UE supporting E-UTRA TDD and downlink LAA and Feature Group Indicator 5 and 111				
8.26.9	E-UTRAN FDD-FS3 Inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-13	C147	UE supporting E-UTRA FDD and downlink LAA with FDD as Pcell and Feature Group Indicator 25				
8.26.10	E-UTRAN TDD-FS3 Inter- frequency event triggered reporting under fading propagation conditions in synchronous cells	Rel-13	C148	UE supporting E-UTRA TDD and downlink LAA and Feature Group Indicator 25				
Measurer	ment Performance Requirements							
9.1.1.1	FDD Intra Frequency Absolute RSRP Accuracy	Rel-8 to Rel- 11	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16			2Rx, 4Rx	
9.1.1.1 __ 1	FDD Intra Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16			2Rx, 4Rx	
9.1.1.1 __ 2	FDD Intra frequency Absolute RSRP accuracy for UE category 1bis	Rel-13	C01k	UE supporting E-UTRA FDD and UE Category 1bis and Feature Group Indicator 16				
9.1.1.2	FDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16			2Rx, 4Rx	

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.1.2_ 2	FDD Intra Frequency Relative Accuracy of RSRP for UE category 1bis	Rel-13	C01k	UE supporting E-UTRA FDD and UE Category 1bis and Feature Group Indicator 16			
9.1.2.1	TDD Intra Frequency Absolute RSRP Accuracy	Rel-8 to Rel- 11	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16			2Rx, 4Rx
9.1.2.1_ 1	TDD Intra Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16			2Rx, 4Rx
9.1.2.1_ 2	TDD Intra Frequency Absolute RSRP Accuracy for UE category 1bis	Rel-13	C02k	UE supporting E-UTRA TDD and UE Category 1bis and Feature Group Indicator 16			
9.1.2.2	TDD Intra Frequency Relative Accuracy of RSRP	Rel-8	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16			2Rx, 4Rx
9.1.2.2_ 2	TDD Intra Frequency Relative Accuracy of RSRP for UE category 1bis	Rel-13	C02k	UE supporting E-UTRA TDD and UE Category 1bis and Feature Group Indicator 16			
9.1.3.1	FDD - FDD Inter Frequency Absolute RSRP Accuracy	Rel-8 to Rel- 11	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.1.3.1_ 1	FDD - FDD Inter Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.1.3.1 __ 2	FDD - FDD Inter Frequency Absolute RSRP Accuracy for UE category 1bis	Rel-13	C01I	UE supporting E-UTRA FDD and UE category 1bis and Feature Group Indicators 16 and 25			
9.1.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRP	Rel-8 to Rel- 11	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.1.3.2 __ 1	FDD - FDD Inter Frequency Relative Accuracy of RSRP (Rel- 12 and forward)	Rel-12	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.1.3.2 __ 2	FDD - FDD Inter Frequency Relative Accuracy of RSRP for UE category 1bis	Rel-13	C01I	UE supporting E-UTRA FDD and UE category 1bis and Feature Group Indicators 16 and 25			

Clause	Title	Releas e		Applicability	,	Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
9.1.4.1	TDD - TDD Inter Frequency Absolute RSRP Accuracy	Rel-8 to Rel- 11	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	
9.1.4.1_ 1	TDD - TDD Inter Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	
9.1.4.1_ 2	TDD - TDD Inter Frequency Absolute RSRP Accuracy for UE category 1bis	Rel-13	C02I	UE supporting E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25				
9.1.4.2	TDD - TDD Inter Frequency Relative Accuracy of RSRP	Rel-8 to Rel- 11	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	
9.1.4.2_ 1	TDD - TDD Inter Frequency Relative Accuracy of RSRP (Rel- 12 and forward)	Rel-12	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	
9.1.4.2 __ 2	TDD - TDD Inter Frequency Relative Accuracy of RSRP for UE category 1bis	Rel-13	C02I	UE supporting E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25				
9.1.5.1	FDD - TDD Inter Frequency Absolute RSRP Accuracy	Rel-9 to Rel- 11	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	
9.1.5.1_ 1	FDD - TDD Inter Frequency Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	
9.1.5.1_ 2	FDD - TDD Inter Frequency Absolute RSRP Accuracy for UE category 1bis	Rel-13	C42a	UE supporting E-UTRA FDD and E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25				
9.1.5.2	FDD - TDD Inter Frequency Relative Accuracy of RSRP	Rel-9 to Rel- 11	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	
9.1.5.2_ 1	FDD - TDD Inter Frequency Relative Accuracy of RSRP (Rel- 12 and forward)	Rel-12	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx	

Clause	Title	Releas e		Applicability	Additional Information		on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.5.2 ₂	FDD - TDD Inter Frequency Relative Accuracy of RSRP for UE category 1bis	Rel-13	C42a	UE supporting E-UTRA FDD and E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25			
9.1.6.1	FDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.6.1_	FDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.6.2	FDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)		2Rx, 4Rx
9.1.6.2_	FDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2_1 or TC 9.1.12.2_1 or TC 9.1.18.2_1 or TC 9.1.20.2_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.7.1	TDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	-	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.7.1_	TDD Absolute RSRP Accuracy E- UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.7.2	TDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)		2Rx, 4Rx
9.1.7.2_	TDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.8.1	FDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non- MBSFN ABS (eICIC)	Rel-10 and Rel-11 only	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
9.1.8.1_	FDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non- MBSFN ABS (eICIC) (Rel-12 and forward)	Rel-12	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
9.1.8.2	FDD Relative RSRP under Time- Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
9.1.9.1	TDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non- MBSFN ABS (eICIC)	Rel-10 and Rel-11 only	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			

Clause	Title	Releas e		Applicability	4	Additional Information	n
			Condition	Comments	Number of TC Executions	Release on other	Branch
9.1.9.1_ 1	TDD Absolute RSRP Accuracy under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC) (Rel-12 and forward)	Rel-12	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
9.1.9.2	TDD Relative RSRP under Time- Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
9.1.10.1	FDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10 and Rel-11 only	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
9.1.10.1 _1	FDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC) (Rel-12 and forward)	Rel-12	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
9.1.10.2	FDD Relative RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115			
9.1.11.1	TDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10 and Rel-11 only	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
9.1.11.1 _1	TDD Absolute RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (elClC) (Rel-12 and forward)	Rel-12	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
9.1.11.2	TDD Relative RSRP under Time- Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115			
9.1.12.1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10 and Rel-11 only	C18a	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.12.1 _1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C18a	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.12.2	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10 and Rel-11 only	C18a	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)		2Rx, 4Rx
9.1.12.2 _1	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C18a	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2_1 or TC 9.1.12.2_1 or TC 9.1.18.2_1 or TC 9.1.20.2_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.13.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10 and Rel-11 only	C19a	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.13.1 _1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C19a	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.13.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz	Rel-10 and Rel-11 only	C19a	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability		Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch		
9.1.13.2 _1	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20 MHz (Rel-12 and forward)	Rel-12	C19a	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 shall be executed. (Note 1)		2Rx, 4Rx		
9.1.14.1	FDD Intra Frequency Absolute RSRP Accuracy under Time- Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC)	Rel-11 only	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115					
9.1.14.1 _1	FDD Intra Frequency Absolute RSRP Accuracy under Time- Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felClC) (Rel-12 and forward)	Rel-12	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115					
9.1.14.2	FDD Intra Frequency Relative RSRP Accuracy under Time- Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115					
9.1.15.1	TDD Intra Frequency Absolute RSRP Accuracy under Time- Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC)	Rel-11 only	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115					
9.1.15.1 _1	TDD Intra Frequency Absolute RSRP Accuracy under Time- Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC) (Rel-12 and forward)	Rel-12	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115					
9.1.15.2	TDD Intra Frequency Relative RSRP Accuracy under Time- Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115					

Clause	Title	Releas e		Applicability	ļ ,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.16.1	FDD Intra Frequency Absolute RSRP Accuracy for 5MHz Bandwidth	Rel-8 to Rel- 11	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16			
9.1.16.1 _1	FDD Intra Frequency Absolute RSRP Accuracy for 5MHz Bandwidth (Rel-12 and forward)	Rel-12	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16			
9.1.16.2	FDD Intra Frequency Relative Accuracy of RSRP for 5MHz Bandwidth	Rel-8	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16			
9.1.17.1	FDD - FDD Inter Frequency Absolute RSRP Accuracy for 5MHz Bandwidth	Rel-8 to Rel- 11	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25			
9.1.17.1 _1	FDD - FDD Inter Frequency Absolute RSRP Accuracy for 5MHz Bandwidth (Rel-12 and forward)	Rel-12	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25			
9.1.17.2	FDD - FDD Inter Frequency Relative Accuracy of RSRP for 5MHz Bandwidth	Rel-8 to Rel- 11	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25			
9.1.17.2 _1	FDD - FDD Inter Frequency Relative Accuracy of RSRP for 5MHz Bandwidth (Rel-12 and forward)	Rel-12	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25			
9.1.18.1	FDD Absolute RSRP Accuracy for E-UTRA for Carrier Aggregation for 10MHz + 5MHz	Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.18.1 _1	FDD Absolute RSRP Accuracy for E-UTRA for Carrier Aggregation for 10MHz + 5MHz (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	<i>F</i>	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.18.2	FDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation for 10MHz + 5MHz	Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)		2Rx, 4Rx
9.1.18.2 _1	FDD Relative RSRP Accuracy E- UTRA for Carrier Aggregation for 10MHz + 5MHz (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2_1 or TC 9.1.12.2_1 or TC 9.1.18.2_1 or TC 9.1.20.2_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.19.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz	Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.19.1 _1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.19.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz	Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)		2Rx, 4Rx
9.1.19.2 _1	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 10MHz + 5MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	-	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.20.1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz bandwidth	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1 or TC 9.1.12.1 or TC 9.1.18.1 or TC 9.1.20.1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.20.1 _1	FDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz bandwidth (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.1_1 or TC 9.1.12.1_1 or TC 9.1.18.1_1 or TC 9.1.20.1_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.20.2	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz bandwidth	Rel-10 and Rel-11 only	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2 or TC 9.1.12.2 or TC 9.1.18.2 or TC 9.1.20.2 shall be executed. (Note 1)		2Rx, 4Rx
9.1.20.2 _1	FDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz bandwidth (Rel-12 and forward)	Rel-12	C18	UE supporting E-UTRA FDD and CA	Either TC 9.1.6.2_1 or TC 9.1.12.2_1 or TC 9.1.18.2_1 or TC 9.1.20.2_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.21.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.21.1 _1	TDD Absolute RSRP Accuracy for E-UTRAN Carrier Aggregation for 5MHz + 5MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1_1 or TC 9.1.13.1_1 or TC 9.1.19.1_1 or TC 9.1.21.1_1 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	Additional Information			
			Condition	Comments	Number of TC Executions	Release on other	Branch	
9.1.21.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz	Rel-10 and Rel-11 only	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)		2Rx, 4Rx	
9.1.21.2 _1	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 5MHz + 5MHz (Rel-12 and forward)	Rel-12	C19	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 shall be executed. (Note 1)		2Rx, 4Rx	
9.1.22	FDD-TDD RSRP Accuracy E- UTRA for Carrier Aggregation with PCell in FDD	Rel-12	C141	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell			2Rx, 4Rx	
9.1.23	FDD-TDD RSRP Accuracy E- UTRA for Carrier Aggregation with PCell in TDD	Rel-12	C142	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell			2Rx, 4Rx	
9.1.24.1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz	Rel-10 and Rel-11 only	C19b	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.1 or TC 9.1.13.1 or TC 9.1.19.1 or TC 9.1.21.1 or TC 9.1.24.1 shall be executed. (Note 1)		2Rx, 4Rx	
9.1.24.1 _1	TDD Absolute RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz (Rel-12 and forward)	Rel-12	C19b	UE supporting E-UTRA TDD and CA			2Rx, 4Rx	
9.1.24.2	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz	Rel-10 and Rel-11 only	C19b	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2 or TC 9.1.13.2 or TC 9.1.19.2 or TC 9.1.21.2 or TC 9.1.24.2 shall be executed. (Note 1)		2Rx, 4Rx	

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other	Branch
9.1.24.2 _1	TDD Relative RSRP Accuracy for E-UTRA Carrier Aggregation for 20MHz + 10MHz (Rel-12 and forward)	Rel-12	C19b	UE supporting E-UTRA TDD and CA	Either TC 9.1.7.2_1 or TC 9.1.13.2_1 or TC 9.1.19.2_1 or TC 9.1.21.2_1 or TC 9.1.24.2_1 shall be executed. (Note 1)		2Rx, 4Rx
9.1.25	FDD intra-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C101	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16			2Rx, 4Rx
9.1.26	TDD intra-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C102	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16			2Rx, 4Rx
9.1.27	FDD-FDD inter-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C103	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25			2Rx, 4Rx
9.1.28	TDD-TDD inter-frequency absolute and relative RSRP accuracies in CRS based discovery signal	Rel-12	C104	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25			2Rx, 4Rx
9.1.29	FDD intra frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C114	UE supporting E-UTRA FDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16			2Rx, 4Rx
9.1.30	TDD intra frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C115	UE supporting E-UTRA TDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16			2Rx, 4Rx
9.1.31	FDD-FDD inter-frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C116	UE supporting E-UTRA FDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16 and 25			2Rx, 4Rx

Clause	Title	Releas e			Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
9.1.32	TDD-TDD inter-frequency absolute and relative CSI-RSRP accuracies in CSI-RS based discovery signal	Rel-12	C117	UE supporting E-UTRA TDD and CSI-RS based discovery signal measurement and Feature Group Indicator 16 and 25			2Rx, 4Rx	
9.1.33	FDD absolute and relative RSRP accuracies for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C128	UE supporting E-UTRA FDD and CA and CRS based discovery signal measurement			2Rx, 4Rx	
9.1.34	TDD absolute and relative RSRP accuracies for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C129	UE supporting E-UTRA TDD and CA and CRS based discovery signal measurement			2Rx, 4Rx	
9.1.35	FDD absolute and relative CSI- RSRP accuracies for E-UTRAN Carrier Aggregation in CSI-RS based discovery signal	Rel-12	C118	UE supporting E-UTRA FDD and CA and CSI-RS based discovery signal measurement			2Rx, 4Rx	
9.1.36	TDD absolute and relative CSI- RSRP accuracies for E-UTRAN Carrier Aggregation in CSI-RS based discovery signal	Rel-12	C119	UE supporting E-UTRA TDD and CA and CSI-RS based discovery signal measurement			2Rx, 4Rx	
9.1.37	3DL PCell in FDD RSRP for E- UTRAN in Carrier Aggregation	Rel-12	C69	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell			2Rx, 4Rx	
9.1.38	3DL PCell in TDD RSRP for E- UTRAN in Carrier Aggregation	Rel-12	C70	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell			2Rx, 4Rx	
9.1.39	3DL FDD RSRP for E-UTRAN in Carrier Aggregation	Rel-10 and Rel-11 only	C71	UE supporting E-UTRA FDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA			2Rx, 4Rx	
		Rel-11 only	C72	UE supporting E-UTRA FDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx	

Clause	Title	Title Releas e	• • • • • • • • • • • • • • • • • • • •		,	Additional Information			
		-	Condition	Comments	Number of TC Executions	Release on other RAT	Branch		
9.1.39_1	3DL FDD RSRP for E-UTRAN in Carrier Aggregation(Rel-12 and forward)	Rel-12	C75	UE supporting E-UTRA FDD and 3DL CA			2Rx, 4Rx		
9.1.40	3DL TDD RSRP for E-UTRAN in Carrier Aggregation	Rel-10 and Rel-11 only	C73	UE supporting E-UTRA TDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DLwith intra-band contiguous and inter-band CA			2Rx, 4Rx		
		Rel-11 only	C74	UE supporting E-UTRA TDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx		
9.1.40_1	3DL TDD RSRP for E-UTRAN in Carrier Aggregation (Rel-12 and forward)	Rel-12	C76	UE supporting E-UTRA TDD and 3DL CA			2Rx, 4Rx		
9.1.41.1	FD-FDD Intra Frequency Absolute RSRP Accuracy for UE category 0	Rel-12	C88	UE supporting E-UTRA FD- FDD (UE Category 0) and Feature Group Indicator 16					
9.1.41.2	FD-FDD Intra Frequency Relative RSRP Accuracy for UE category 0	Rel-12	C88	UE supporting E-UTRA FD- FDD (UE Category 0) and Feature Group Indicator 16					
9.1.42.1	HD-FDD Intra Frequency Absolute RSRP Accuracy for UE category 0	Rel-12	C89	UE supporting E-UTRA HD- FDD (UE category 0) and Feature Group Indicator 16					
9.1.42.2	HD-FDD Intra Frequency Relative RSRP Accuracy for UE category 0	Rel-12	C89	UE supporting E-UTRA HD- FDD (UE category 0) and Feature Group Indicator 16					
9.1.43.1	TDD Intra Frequency Absolute RSRP Accuracy for UE category 0	Rel-12	C90	UE supporting E-UTRA TDD (UE Category 0) and Feature Group Indicator 16					
9.1.43.2	TDD Intra Frequency Relative RSRP Accuracy for UE category 0	Rel-12	C90	UE supporting E-UTRA TDD (UE Category 0) and Feature Group Indicator 16					
9.1.44	4 DL CA PCell in FDD FDD-TDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C69a	UE supporting E-UTRA FDD and TDD and 4DL CA with FDD as PCell			2Rx, 4Rx		

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.45	4 DL CA PCell in TDD FDD-TDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C70a	UE supporting E-UTRA FDD and TDD and 4DL CA with TDD as PCell			2Rx, 4Rx
9.1.46	4DL FDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C75a	UE supporting E-UTRA FDD and 4DL CA			2Rx, 4Rx
9.1.47	4DL TDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C76a	UE supporting E-UTRA TDD and 4DL CA			2Rx, 4Rx
9.1.48	5 DL PCell in FDD RSRP for E- UTRAN in Carrier Aggregation	Rel-12	C69b	UE supporting E-UTRA FDD and TDD and 5DL CA with FDD as PCell			2Rx, 4Rx
9.1.49	5 DL PCell in TDD RSRP for E- UTRAN in Carrier Aggregation	Rel-12	C70b	UE supporting E-UTRA FDD and TDD and 5DL CA with TDD as PCell			2Rx, 4Rx
9.1.50	5DL FDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C75b	UE supporting E-UTRA FDD and 5DL CA			2Rx, 4Rx
9.1.51	5DL TDD RSRP for E-UTRAN in Carrier Aggregation	Rel-12	C76b	UE supporting E-UTRA TDD and 5DL CA			2Rx, 4Rx
9.1.52	FD-FDD RSRP Intra frequency case for Cat-M1 UE in CEModeA	Rel-13	C94c	UE supporting E-UTRA FD- FDD and UE Category M1 and Feature Group Indicator 16			
9.1.53	HD-FDD RSRP Intra frequency case for Cat-M1 UE in CEModeA	Rel-13	C107d	UE supporting E-UTRA HD- FDD and UE Category M1 and Feature Group Indicator 16			
9.1.54	TDD RSRP Intra frequency case for Cat-M1 UE in CEModeA	Rel-13	C93b	UE supporting E-UTRA TDD and UE Category M1 and Feature Group Indicator 16			
9.1.55	FS3 Intra frequency absolute and relative RSRP accuracies with FDD PCell	Rel-13	C149	UE supporting E-UTRA FDD and Downlink LAA with FDD as Pcell			2Rx, 4Rx
9.1.56	FS3 Intra frequency absolute and relative RSRP accuracies with TDD PCell	Rel-13	C152	UE supporting E-UTRA TDD and Downlink LAA with TDD as PCell			2Rx, 4Rx
9.1.57	FD-FDD RSRP Intra frequency case for Cat-M1 UE in CEModeB	Rel-13	C107f	UE supporting E-UTRA FD- FDD and UE Category M1 and CE Mode B and Feature Group Indicator 16			

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.1.58	HD-FDD RSRP Intra frequency case for Cat-M1 UE in CEModeB	Rel-13	C107e	UE supporting E-UTRA HD- FDD and UE Category M1 and CE Mode B and Feature Group Indicator 16			
9.1.59	TDD RSRP Intra frequency case for Cat-M1 UE in CEModeB	Rel-13	C93d	UE supporting E-UTRA TDD and UE Category M1 and CE Mode B and Feature Group Indicator 16			
9.1.60	FS3 absolute and relative CSI- RSRP accuracies for E-UTRAN Carrier Aggregation in CSI-RS based discovery signal with FDD PCell	Rel-13	C150	UE supporting E-UTRA FDD and Downlink LAA with FDD as Pcell and CSI-RS based discovery signals and Feature Group Indicator 16			2Rx, 4Rx
9.1.61	FS3 absolute and relative CSI- RSRP accuracies for E-UTRAN Carrier Aggregation in CSI-RS based discovery signal with TDD PCell	Rel-13	C151	UE supporting E-UTRA TDD and Downlink LAA and CSI-RS based discovery signals and Feature Group Indicator 16			2Rx, 4Rx
9.2.1.1	FDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16			2Rx, 4Rx
9.2.1.1_ 2	FDD Intra Frequency Absolute RSRQ Accuracy for UE Category 1bis	Rel-13	C01k	UE supporting E-UTRA FDD and UE Category 1bis and Feature Group Indicator 16			
9.2.2.1	TDD Intra Frequency Absolute RSRQ Accuracy	Rel-8	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16			2Rx, 4Rx
9.2.2.1_ 2	TDD Intra Frequency Absolute RSRQ Accuracy for UE Category 1bis	Rel-13	C02k	UE supporting E-UTRA TDD and UE Category 1bis and Feature Group Indicator 16			
9.2.3.1	FDD - FDD Inter Frequency Absolute RSRQ Accuracy	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.3.1_ 2	FDD - FDD Inter Frequency Absolute RSRQ Accuracy for UE Category 1bis	Rel-13	C01I	UE supporting E-UTRA FDD and UE category 1bis and Feature Group Indicators 16 and 25			
9.2.3.2	FDD - FDD Inter Frequency Relative Accuracy of RSRQ	Rel-8	C01g	UE supporting E-UTRA FDD and Feature Group Indicators 16 and 25			2Rx, 4Rx

Clause	Title	Releas e	eleas Applicability e			Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.2.3.2_ 2	FDD - FDD Inter Frequency Relative Accuracy of RSRQ for UE Category 1bis	Rel-13	C01I	UE supporting E-UTRA FDD and UE category 1bis and Feature Group Indicators 16 and 25			
9.2.4.1	TDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-8 to Rel- 11	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.4.1_ 1	TDD - TDD Inter Frequency Absolute RSRQ Accuracy (Rel-12 and forward)	Rel-12	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.4.1_ 2	TDD - TDD Inter Frequency Absolute RSRQ Accuracy for UE Category 1bis	Rel-13	C02I	UE supporting E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25			
9.2.4.2	TDD -TDD Inter Frequency Relative Accuracy of RSRQ	Rel-8 to Rel- 11	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.4.2_ 1	TDD -TDD Inter Frequency Relative Accuracy of RSRQ (Rel- 12 and forward)	Rel-12	C02g	UE supporting E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.4.2_ 2	TDD -TDD Inter Frequency Relative Accuracy of RSRQ for UE Category 1bis	Rel-13	C02I	UE supporting E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25			
9.2.4A.1	FDD - TDD Inter Frequency Absolute RSRQ Accuracy	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.4A.1 _2	FDD - TDD Inter Frequency Absolute RSRQ Accuracy for UE Category 1bis	Rel-13	C42a	UE supporting E-UTRA FDD and E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25			
9.2.4A.2	FDD - TDD Inter Frequency Relative Accuracy of RSRQ	Rel-9	C42	UE supporting E-UTRA FDD and E-UTRA TDD and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.4A.2 _2	FDD - TDD Inter Frequency Relative Accuracy of RSRQ for UE Category 1bis	Rel-13	C42a	UE supporting E-UTRA FDD and E-UTRA TDD and UE category 1bis and Feature Group Indicators 16 and 25			

Clause	Title	Releas e			Additional Information			
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch	
9.2.5.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)		2Rx, 4Rx	
9.2.5.2	FDD Relative RSRQ Accuracy E- UTRA for Carrier Aggregation	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)		2Rx, 4Rx	
9.2.6.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)		2Rx, 4Rx	
9.2.6.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)		2Rx, 4Rx	
9.2.7.1	FDD RSRQ under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (elClC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115				
9.2.8.1	TDD RSRQ under Time Domain Measurement Resource Restriction with Non-MBSFN ABS (elClC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115				
9.2.9.1	FDD Absolute RSRQ under Time Domain Measurement Resource Restriction with MBSFN ABS (eICIC)	Rel-10	C45	UE supporting E-UTRA FDD and Feature Group Indicator 115				
9.2.10.1	TDD Absolute RSRQ under Time Domain Measurement Resource Restriction with MBSFN ABS (elClC)	Rel-10	C46	UE supporting E-UTRA TDD and Feature Group Indicator 115				

Clause	Title	Releas e		Applicability	/	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other	Branch
9.2.11.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)		2Rx, 4Rx
9.2.11.2	FDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)		2Rx, 4Rx
9.2.12.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)		2Rx, 4Rx
9.2.12.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)		2Rx, 4Rx
9.2.15.1	FDD RSRQ Accuracy under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC)	Rel-11	C59	UE supporting E-UTRA FDD and CRS interference handling and Feature Group Indicator 115			
9.2.16.1	TDD RSRQ Accuracy under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (felCIC)	Rel-11	C60	UE supporting E-UTRA TDD and CRS interference handling and ss-CCH interference handling and Feature Group Indicator 115			
9.2.17.1	FDD Intra Frequency Absolute RSRQ Accuracy for 5MHz Bandwidth	Rel-8	C50	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicator 16			

Clause	Title	Releas e		Applicability	<i>A</i>	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.2.18.1	FDD - FDD Inter Frequency Absolute RSRQ Accuracy for 5MHz Bandwidth	Rel-8	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25			
9.2.18.2	FDD - FDD Inter Frequency Relative Accuracy of RSRQ for 5MHz Bandwidth	Rel-8	C51	UE supporting E-UTRA FDD and E-UTRA Band 31 and Feature Group Indicators 16 and 25			
9.2.19.1	FDD-FDD Inter Frequency absolute WB-RSRQ	Rel-11	C01h	UE supporting E-UTRA FDD and WB-RSRQ measurement and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.20.1	TDD-TDD Inter Frequency absolute WB-RSRQ	Rel-11	C02h	UE supporting E-UTRA TDD and WB-RSRQ measurement and Feature Group Indicators 16 and 25			2Rx, 4Rx
9.2.21.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)		2Rx, 4Rx
9.2.21.2	FDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)		2Rx, 4Rx
9.2.22.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)		2Rx, 4Rx
9.2.22.2	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 10MHz+5MHz	Rel-11	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)		2Rx, 4Rx

Clause	Title	Releas e		Applicability	/	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other	Branch
9.2.23.1	FDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.1 or TC 9.2.11.1 or TC 9.2.21.1 or TC 9.2.23.1 shall be executed. (Note 1)		2Rx, 4Rx
9.2.23.2	FDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C18	UE supporting E-UTRA FDD and CA	Either TC 9.2.5.2 or TC 9.2.11.2 or TC 9.2.21.2 or TC 9.2.23.2 shall be executed. (Note 1)		2Rx, 4Rx
9.2.24.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)		2Rx, 4Rx
9.2.24.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 5MHz+5MHz	Rel-10	C19	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)		2Rx, 4Rx
9.2.25.1	Absolute RSRQ Accuracy for E- UTRAN TDD-FDD Carrier Aggregation with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell			2Rx, 4Rx
9.2.25.2	Relative RSRQ Accuracy for E- UTRAN TDD-FDD Carrier Aggregation with PCell in FDD	Rel-12	C67	UE supporting E-UTRA FDD and TDD and 2DL CA with FDD as PCell			2Rx, 4Rx
9.2.26.1	Absolute RSRQ Accuracy for E- UTRAN TDD-FDD Carrier Aggregation with PCell in TDD	Rel-12	C142	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell			2Rx, 4Rx
9.2.26.2	Relative RSRQ Accuracy for E- UTRAN TDD-FDD Carrier Aggregation with PCell in TDD	Rel-12	C142	UE supporting E-UTRA FDD and TDD and 2DL CA with TDD as PCell			2Rx, 4Rx

Clause	Title	Releas e		Applicability	A	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.2.27.1	TDD Absolute RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz+10MHz	Rel-10	C19b	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.1 or TC 9.2.12.1 or TC 9.2.22.1 or TC 9.2.24.1 or TC 9.2.27.1 shall be executed. (Note 1)		2Rx, 4Rx
9.2.27.2	TDD Relative RSRQ Accuracy for E-UTRA Carrier Aggregation for 20MHz+10MHz	Rel-10	C19b	UE supporting E-UTRA TDD and CA	Either TC 9.2.6.2 or TC 9.2.12.2 or TC 9.2.22.2 or TC 9.2.24.2 or TC 9.2.27.2 shall be executed. (Note 1)		2Rx, 4Rx
9.2.28	FDD intra-frequency absolute RSRQ accuracy with CRS based discovery signal	Rel-12	C101	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16			2Rx, 4Rx
9.2.29	TDD intra-frequency absolute RSRQ accuracy with CRS based discovery signal	Rel-12	C102	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16			2Rx, 4Rx
9.2.30	FDD-FDD inter-frequency absolute and relative RSRQ accuracies with CRS based discovery signal	Rel-12	C103	UE supporting E-UTRA FDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25			2Rx, 4Rx
9.2.31	TDD-TDD inter-frequency absolute and relative RSRQ accuracies with CRS based discovery signal	Rel-12	C104	UE supporting E-UTRA TDD and CRS based discovery signals measurement and Feature Group Indicator 16 and 25			2Rx, 4Rx
9.2.32	FDD absolute and relative RSRQ accuracy for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C128	UE supporting E-UTRA FDD and CA and CRS based discovery signal measurement			2Rx, 4Rx
9.2.33	TDD absolute and relative RSRQ accuracy for E-UTRAN Carrier Aggregation in CRS based discovery signal	Rel-12	C129	UE supporting E-UTRA TDD and CA and CRS based discovery signal measurement			2Rx, 4Rx

Clause	e Title Releas Applicability		Additional Information				
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.2.38	3DL PCell in FDD RSRQ for E- UTRAN in Carrier Aggregation	Rel-12	C69	UE supporting E-UTRA FDD and TDD and 3DL CA with FDD as PCell			2Rx, 4Rx
9.2.39	3 DL PCell in TDD RSRQ for E- UTRAN in Carrier Aggregation	Rel-12	C70	UE supporting E-UTRA FDD and TDD and 3DL CA with TDD as PCell			2Rx, 4Rx
9.2.40	3 DL FDD RSRQ for E-UTRAN in Carrier Aggregation	Rel-10	C71	UE supporting E-UTRA FDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA			2Rx, 4Rx
		Rel-11	C72	UE supporting E-UTRA FDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx
9.2.41	3DL TDD RSRQ for E-UTRAN in Carrier Aggregation	Rel-10	C73	UE supporting E-UTRA TDD and 3DL with intra- band contiguous CA, or 3DL with inter-band CA, or 3DL with intra-band contiguous and inter-band CA			2Rx, 4Rx
		Rel-11	C74	UE supporting E-UTRA TDD and 3DL with intra- band non-contiguous and inter-band CA, or 3DL with intra-band non-contiguous and intra-band contiguous CA			2Rx, 4Rx
9.2.42.1	FD-FDD Intra Frequency Absolute RSRQ Accuracy for UE category 0	Rel-12	C88	UE supporting E-UTRA FD- FDD (UE Category 0) and Feature Group Indicator 16			
9.2.43.1	HD-FDD Intra Frequency Absolute RSRQ Accuracy for UE category 0	Rel-12	C89	UE supporting E-UTRA HD- FDD (UE Category 0) and Feature Group Indicator 16			
9.2.44.1	TDD Intra Frequency Absolute RSRQ Accuracy for UE category 0	Rel-12	C90	UE supporting E-UTRA TDD (UE Category 0) and Feature Group Indicator 16			

Clause	Title	Releas e		Applicability		Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.2.45	4 DL CA PCell in FDD FDD-TDD RSRQ for E-UTRAN in Carrier Aggregation	Rel-12	C69a	UE supporting E-UTRA FDD and TDD and 4DL CA with FDD as PCell			
9.2.46	4DL PCell in TDD RSRQ for E- UTRAN in Carrier Aggregation	Rel-12	C70a	UE supporting E-UTRA FDD and TDD and 4DL CA with TDD as PCell			
9.2.47	5 DL PCell in FDD RSRQ for E- UTRAN in Carrier Aggregation	Rel-12	C69b	UE supporting E-UTRA FDD and TDD and 5DL CA with FDD as PCell			
9.2.48	5 DL PCell in TDD RSRQ for E- UTRAN in Carrier Aggregation	Rel-12	C70b	UE supporting E-UTRA FDD and TDD and 5DL CA with TDD as PCell			
9.2.51	FS3 Intra frequency absolute and relative RSRQ accuracies with FDD PCell	Rel-13	C149	UE supporting E-UTRA FDD and Downlink LAA with FDD as Pcell			2Rx, 4Rx
9.2.52	FS3 Intra frequency absolute and relative RSRQ accuracies with TDD PCell	Rel-13	C152	UE supporting E-UTRA TDD and Downlink LAA with TDD as PCell			2Rx, 4Rx
9.3.1	E-UTRAN FDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD			2Rx, 4Rx
9.3.2	E-UTRAN TDD - UTRA FDD CPICH RSCP absolute accuracy	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD			2Rx, 4Rx
9.3.3	E-UTRAN FDD - UTRA FDD CPICH RSCP absolute accuracy for 5MHz bandwidth	Rel-9	C52	UE supporting E-UTRA FDD and E-UTRA Band 31 and UTRA FDD			
9.4.1	E-UTRAN FDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C04	UE supporting E-UTRA FDD and UTRA FDD			2Rx, 4Rx
9.4.2	E-UTRAN TDD - UTRA FDD CPICH Ec/No absolute accuracy	Rel-9	C07	UE supporting E-UTRA TDD and UTRA FDD			2Rx, 4Rx
9.4.3	E-UTRAN FDD - UTRA FDD CPICH Ec/No absolute accuracy for 5MHz bandwidth	Rel-9	C52	UE supporting E-UTRA FDD and E-UTRA Band 31 and UTRA FDD			
9.5.1	E-UTRAN FDD - UTRA TDD PCCPCH RSCP absolute accuracy	Rel-9	C65	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 39			2Rx, 4Rx
		Rel-9	C105	UE supporting E-UTRA FDD and UTRA TDD and Feature Group Indicators 22 and not supporting UTRA FDD			2Rx, 4Rx

Clause	Title	Releas e	Applicability		Additional Information		
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.5.2	E-UTRAN TDD - UTRA TDD PCCPCH RSCP absolute accuracy	Rel-9	C66	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 39			2Rx, 4Rx
		Rel-9	C106	UE supporting E-UTRA TDD and UTRA TDD and Feature Group Indicators 22 and not supporting UTRA FDD			2Rx, 4Rx
9.6.1	GSM RSSI accuracy for E- UTRAN FDD	Rel-9	C08g	UE supporting E-UTRA FDD and GSM and Feature Group Indicator 16 and 23			2Rx, 4Rx
9.6.2	GSM RSSI accuracy for E- UTRAN TDD	Rel-9	C09h	UE supporting E-UTRA TDD and GSM and Feature Group Indicator 16 and 23			2Rx, 4Rx
9.9.1.1	FDD Intra Frequency Serving Cell Absolute RSRP Accuracy	Rel-10 and Rel-11 only	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16			2Rx, 4Rx
9.9.1.1_ 1	FDD Intra Frequency Serving Cell Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16			2Rx, 4Rx
9.9.1.2	FDD Intra Frequency Serving Cell Absolute RSRQ Accuracy	Rel-10	C01f	UE supporting E-UTRA FDD and Feature Group Indicator 16			2Rx, 4Rx
9.9.2.1	TDD Intra Frequency Serving Cell Absolute RSRP Accuracy	Rel-10 and Rel-11 only	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16			2Rx, 4Rx
9.9.2.1_ 1	TDD Intra Frequency Serving Cell Absolute RSRP Accuracy (Rel-12 and forward)	Rel-12	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16			2Rx, 4Rx
9.9.2.2	TDD Intra Frequency Serving Cell Absolute RSRQ Accuracy	Rel-10	C02f	UE supporting E-UTRA TDD and Feature Group Indicator 16			2Rx, 4Rx
9.11.1	FS3 average RSSI accuracy case (PCell using FDD)	Rel-13	C157	UE supporting E-UTRA FDD and Downlink LAA with FDD as Pcell and RSSI measurement			2Rx, 4Rx
9.11.2	FS3 average RSSI accuracy case (PCell using TDD)	Rel-13	C158	UE supporting E-UTRA TDD and Downlink LAA with TDD as Pcell and RSSI measurement			2Rx, 4Rx

Clause	Title	Releas e		Applicability	,	Additional Information	on
			Condition	Comments	Number of TC Executions	Release on other RAT	Branch
9.12.1	FS3 channel occupancy test (PCell using FDD)	Rel-13	C157	UE supporting E-UTRA FDD and Downlink LAA with FDD as Pcell and channel occupancy measurement			2Rx, 4Rx
9.12.2	FS3 channel occupancy test (PCell using TDD)	Rel-13	C158	UE supporting E-UTRA TDD and Downlink LAA with TDD as Pcell and channel occupancy measurement			2Rx, 4Rx
V2V Com	munications						
11.1	V2V UE Transmission Timing Accuracy Test	Rel-14	C203	UE supporting V2X Sidelink communication			
11.2	Interruptions due to V2V sidelink communication	Rel-14	C204	UE supporting V2X Sidelink communication			
V2X Com	munications						
12.1.1	V2X UE Transmission Timing Accuracy Test for eNB as Timing Reference	Rel-14	C204	UE supporting E-UTRA and V2X Sidelink communication			
12.1.2	V2X UE Transmission Timing Accuracy Test for SyncRef UE as Timing Reference	Rel-14	C216	UE supporting V2X Sidelink communication and SLSS transmission and reception			
12.4	Congestion Control Measurement Test for V2X UE	Rel-14	C217	UE supporting V2X Sidelink communication and congestion control			

Table 4.2-1a: Applicability of RRM conformance test cases Conditions

C01	IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND A.4.1-1/1 THEN R ELSE N/A
	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/13 AND A.4.4-1a/25) THEN R ELSE
C01a	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/13 AND A.4.4-1a/25) THEN R ELSE
	N/A
C01ah	IF A.4.1-1/1 AND A.4.4-1a/13 AND A.4.4-1a/25 AND A.4.3-4a/1a) THEN R ELSE N/A
C01b	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25) THEN R ELSE N/A
C01c	IF (A.4.1-1/1 AND A.4.4-1a/5) THEN R ELSE N/A
C01ch	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/5) THEN R ELSE N/A
C01d	IF (A.4.1-1/1 AND A.4.4-1a/5 AND A.4.4-1a/13 AND A.4.4-1a/25) THEN R ELSE N/A
C01dh	IF (A.4.1-1/1 AND A.4.4-1a/5 AND A.4.4-1a/13 AND A.4.4-1a/25 AND A.4.3-4a/1a) THEN R ELSE N/A
C01e	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C01eh	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C01f	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/16) THEN R ELSE N/A
C01g	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE
Jo. 9	
	N/A
C01h	IF (A.4.1-1/1 AND A.4.4-1a/16 AND A.4.4-1a/25 AND A.4.5-1/7) THEN R ELSE N/A
C01i	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND NOT(A.4.5-1/40)) THEN R ELSE N/A
C01j	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/5 AND NOT(A.4.5-1/40)) THEN R
	ELSE N/A
C01k	IF (A.4.1-1/1 AND A.4.4-1a/16 AND A.4.3-4a/1a) THEN R ELSE N/A
C01m	IF A.4.3-4a/1a AND A.4.1-1/1 THEN R ELSE N/A
C01n	IF A.4.3-4a/1a AND (A.4.1-1/1 AND A.4.4-1a/25) THEN R ELSE N/A
C01I	IF (A.4.1-1/1 AND A.4.4-1a/16 AND A.4.4-1a/25 AND A.4.3-4a/1a) THEN R ELSE N/A
C01m	IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a)) AND (A.4.5-1/71 AND A.4.1-1/1 AND A.4.4-1a/25 AND A.4.5-2aa/1)
	THEN R ELSE N/A
004	
C01n	IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a)) AND (A.4.5-1/71 AND A.4.1-1/1 AND A.4.4-1a/5 AND A.4.4-1a/25
	AND A.4.5-2aa/1) THEN R ELSE N/A
C01o	IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a)) AND (A.4.5-1/71 AND A.4.1-1/2 AND A.4.4-1a/25 AND A.4.5-2aa/1)
0010	
	THEN R ELSE N/A
C02	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/2 THEN R ELSE N/A
C02a	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1b/13 AND A.4.4-1b/25 AND NOT(A.4.5-
CUZa	
	1/41)) THEN R ELSE N/A
C02ah	IF (A.4.1-1/2 AND A.4.4-1b/13 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A
C02b	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A
C02c	IF (A.4.1-1/2 AND A.4.4-1b/5) THEN R ELSE N/A
C02ch	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/5) THEN R ELSE N/A
C02d	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1b/5 AND A.4.4-1b/13 AND A.4.4-1b/25)
0020	
	THEN R ELSE N/A
C02dh	IF (A.4.1-1/2 AND A.4.4-1b/5 AND A.4.4-1b/13 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A
C02e	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C02eh	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C02f	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1b/16) THEN R ELSE N/A
C02g	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25) THEN R ELSE
CUZ	
	N/A
C02h	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.5-1/7) THEN R ELSE N/A
C02i	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (NOT(A.4.1-1/2 AND A.4.5-1/41)) THEN R ELSE N/A
C02j	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/5 AND NOT(A.4.5-1/41)) THEN R ELSE
	N/A
C02k	
C02k	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A
C02l	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A
	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A
C02I C02m	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A
C02l C02m C02n	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A
C02I C02m C02n C03	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A
C02l C02m C02n	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A
C02l C02m C02n C03 C03a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4a/1a) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4a/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A
C02l C02m C02n C03 C03a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22)
C02I C02m C02n C03 C03a C04	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4a/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4aa/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void
C02I C02m C02n C03 C03a C04 C04a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4aa/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void
C02I C02m C02n C03 C03a C04 C04a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4aa/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void
C02I C02m C02n C03 C03a C04 C04a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4aa/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND
C02I C02m C02n C03 C03a C04 C04a C04b C04c	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4aa/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a C04b C04c C04d	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a C04b C04c C04d	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a C04b C04c	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2 AND A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a C04b C04c C04d	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/19 AND A.4.4-1a/22) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a C04b C04c C04d	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/25 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/19 AND A.4.4-1a/22) THEN R ELSE N/A
C02I C02m C02n C03 C03a C04 C04a C04b C04c C04d	IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.3-4a/1a) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.4-1b/16 AND A.4.4-1b/25 AND A.4.3-4a/1a) THEN R ELSE N/A IF A.4.3-4a/1a AND A.4.1-1/2 THEN R ELSE N/A IF A.4.3-4a/1a AND (A.4.1-1/2 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A Void Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/22 AND A.4.4-1a/19 AND A.4.4-1a/22) THEN R ELSE N/A

 CO4H IF (A.4.3-dar)a AND A.4.1-1/3 AND A.4.1-1/3 THEN R ELSE N/A CO5E IF (NOTI(A.3-3-dar) OR A.4.3-day)) AND (A.4.1-1/2 AND A.4.1-1/3 THEN R ELSE N/A IF (NOTI(A.3-3-dar) OR A.4.3-day)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/6 AND A.4.4-1b/22) THEN R ELSE N/A CO5E IF (NOTI(A.3-dar) OR A.4.3-day)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A CO5E IF (NOTI(A.4.3-dar) OR A.4.3-day)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A CO5E IF (NOTI(A.4.3-dar) OR A.4.3-day)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE N/A CO6 IF (NOTI(A.4.3-dar) OR A.4.3-day)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1a/22) THEN R ELSE N/A CO6 IF (NOTI(A.3-dar) OR A.4.3-day)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.1-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A CO60 IF (NOTI(A.3-dar) OR A.4.3-day)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.1-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A CO60 IF (NOTI(A.3-dar) OR A.4.3-day)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1a/6 AND A.4.4-1a/22) THEN R ELSE N/A CO7 IF (NOTI(A.3-dar) OR A.3-day) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3 THEN R ELSE N/A CO7 IF (NOTI(A.3-dar) OR A.3-day) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1b/22) THEN R ELSE N/A CO7 IF (NOTI(A.3-dar) OR A.4.3-day) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1b/3 AND A.4.4-1b/22) THEN R ELSE N/A CO5D IF (NOTI(A.3-dar) OR A.4.3-day) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1b/3 AND A.4.4-1b/22) THEN R ELSE N/A CO6D IF (NOTI(A.3-dar) OR A.4.3-day) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1b/3 AND A.4.4-1b/23) THEN R ELSE N/A IF (NOTI(A.3-dar) OR A.4.3-day) AND		
F(NOT(A,3-4ay1 OR A,4.3-4ay1) AND (A,4.1-1/2 AND A,4.1-1/4 AND A,4.4-1b/8 AND A,4.4-1b/22)		
THEN R ELSE NA OSS (MOTIFA 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-126/2 AND A.4.4-12/22) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-12/3 AND A.4.4-12/22) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-12/3 THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-16/8 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-16/8 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-16/8 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-16/5 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.1-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.1-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247))	C05	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A
THEN R ELSE NA OSS (MOTIFA 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-126/2 AND A.4.4-12/22) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-12/3 AND A.4.4-12/22) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-12/3 THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-16/8 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-4447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-16/8 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-16/8 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-16/5 AND A.4.4-16/22) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.1-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.1-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE NA OSS (FINOTICA, 3-447) OR A.4.3-48247))	C05a	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/8 AND A.4.4-1b/22)
THEN R ELSE NA (7) Vold (7) COS6 (7) Vold (8) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A (8) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE N/A (8) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1ayl5 AND A.4.4-1ayl22) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4ayl1) OR A.4.3-4ayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3) THEN R ELSE N/A (10) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1ayl5 AND A.4.4-1ayl22) THEN R ELSE N/A (11) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1ayl22) THEN R ELSE N/A (12) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/5 AND A.4.4-1ayl22) THEN R ELSE N/A (13) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1/5 AND A.4.4-1ayl22) THEN R ELSE N/A (14) IF (A.4.3-4ayl1 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1ayl23) (15) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1ayl23) (16) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1ayl23) THEN R ELSE N/A (16) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (16) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (17) IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (18) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (19) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1ayl23		
THEN R ELSE NA (7) Vold (7) COS6 (7) Vold (8) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A (8) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE N/A (8) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4sayl)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1ayl5 AND A.4.4-1ayl22) THEN R ELSE N/A (9) IF (NOT(A.34ayl OR A.4.3-4ayl1) OR A.4.3-4ayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3) THEN R ELSE N/A (10) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1ayl5 AND A.4.4-1ayl22) THEN R ELSE N/A (11) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1ayl22) THEN R ELSE N/A (12) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/5 AND A.4.4-1ayl22) THEN R ELSE N/A (13) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1/5 AND A.4.4-1ayl22) THEN R ELSE N/A (14) IF (A.4.3-4ayl1 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1ayl23) (15) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1ayl23) (16) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.1-1ayl23) THEN R ELSE N/A (16) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (16) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (17) IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (18) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1ayl23) THEN R ELSE N/A (19) IF (NOT(A.34ayl OR A.4.3-4sayl1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1ayl23	C05b	IF (NOT(A 4 3-4a/1 OR A 4 3-4aa/1)) AND (A 4 1-1/2 AND A 4 1-1/4 AND A 4 4-1b/15 AND A 4 4-1b/25)
COSC	0000	
COSD	COFO	
A.4.4-1b/25) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/5 AND A.4.4-1a/22) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/5 AND A.4.4-1a/22) THEN R ELSE N/A COT IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/2 AND A.4.1-1/2 AND A.4.1-1/8 AND A.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A COT IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A COTO IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A COTO Void COTO IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/3) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/3) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/3 AND A.4.1-1b/3) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/1 AND A.4.1-1b/3) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/1 AND A.4.1-1b/3 THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/1 AND A.4.1-1b/3 AND A.4.4-1a/23) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1/1 AND A.4.1-1b/3 AND A.4.4-1a/23) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1b/1 AND A.4.1-1b/3 AND A.4.4-1a/23) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1b/1 AND A.4.1-1b/3 AND A.4.4-1a/23) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1b/1 AND A.4.1-1b/3 AND A.4.4-1a/23) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1b/1 AND A.4.1-1b/3 AND A.4.4-1a/23) THEN R ELSE N/A COSE IF (NOTI(A.4.3-ad/) OR A.4.3-ada/1) AND (A.4.1-1b/1 AND A.4.1-1b/3 AND A.4.4-1a/23) THEN R ELSE N/A C		
F(NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25) THEN R ELSE N/A	C05a	
THEN R ELSE N/A (NOTICA, 3-4a/1 OR A.4, 3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (Sob IF (NOTICA, 3-4a/1 OR A.4, 3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.1-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A (Sob IF (NOTICA, 4, 3-4a/1 OR A.4, 3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A (Sob IF (NOTICA, 4, 3-4a/1 OR A.4, 3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A (Sob IF (NOTICA, 4, 3-4a/1 OR A.4, 3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1b/3 AND A.4.4-1b/22) THEN R ELSE N/A (Sob IF (NOTICA, 3-4a/1 OR A.4, 3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-b/15 AND A.4.4-1b/22) THEN R ELSE N/A (Sob IF (NOTICA, 3-4a/1 OR A.4, 3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-b/15 AND A.4.4-1b/22) THEN R ELSE N/A (Sob IF (NOTICA, 3-4a/1 OR A.4, 3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.1-1/3) THEN R ELSE N/A (Sob IF (NOTICA, 3-4a/1 OR A.4, 3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.1-1a/2 AND A.4.1-1		
F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R. ELSE NA (COBA F. (NOTI(A.3-3a4)* (OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4) AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R. ELSE NA (COBA F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R. ELSE NA (COTA F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1a/5 AND A.4.4-1a/22) THEN R. ELSE NA (COTA F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/6 AND A.4.4-1b/22) THEN R. ELSE NA (COTA F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/5 AND A.4.4-1b/22) THEN R. ELSE NA (COTA F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1b/5 AND A.4.4-1b/22) THEN R. ELSE NA (COTA F. (A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1b/5 THEN R. ELSE NA (COTA F. (A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1b/5 THEN R. ELSE NA (COBB F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 THEN R. ELSE NA (COBB F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1a/23) THEN R. ELSE NA (COBB F. (NOTI(A.4.3-4ab)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1a/23) THEN R. ELSE NA (COBB F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1a/23) THEN R. ELSE NA (COBB F. (NOTI(A.4.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1a/23) THEN R. ELSE NA (COBB F. (NOTI(A.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1a/23) THEN R. ELSE NA (COBB F. (NOTI(A.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1a/23) THEN R. ELSE NA (COBB F. (NOTI(A.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1a/23) THEN R. ELSE NA (COBB F. (NOTI(A.3-4a)* (OR A.4.3-4aa/1)) AND (A.4.1-1b/1 AND A.4.1-1b/5 AND A.4.4-1b/23) THEN R. ELSE NA (COBB F. (NOTI(A.3-4a)* (OR A.3-4aa/1)) AND (A.4.1-1b/2 AND A.4.1-1b/5 AND A.4.4-1b/5 AND A.4.	C05e	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/22 AND A.4.4-1b/25)
F(NOT(A.4.3-4a)*(1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A		THEN R ELSE N/A
F(NOT(A.4.3-4a)*(1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A	C06	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A
THÈN R ELSE N/A (NOT) (A.3-44/1 OR A.4.3-48a/1) (AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1a/22) THEN R ELSE N/A (NOT) IF (NOT)(A.3-44/1 OR A.4.3-48a/1) (AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3 THÈN R ELSE N/A (NOT) IF (NOT)(A.3-4a/1 OR A.4.3-48a/1) (AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/2 AND A.4.		
Final Cornel Final Cornel	Jooa	
THEN R ELSE N/A (CO77 IF (NOT(A.4.3-447) GR.A.3-4a/10 RR.A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A (CO78 IF (NOT(A.4.3-4a/1 GR.A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A (CO70 IF (NOT(A.4.3-4a/1 GR.A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/15 AND A.4.4-1b/22) THEN R ELSE N/A (CO70 IF (A.4.3-4a/1 GR.A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A (CO81 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A (CO82 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.3-1-1/6 AND A.4.4-1a/9 AND A.4.4-1a/23) THEN R ELSE N/A (CO83 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.3-1-1/6 AND A.4.4-1a/9 AND A.4.4-1a/23) THEN R ELSE N/A (CO84 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A (CO85 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A (CO86 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A (CO87 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A (CO88 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A (CO89 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A (CO90 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A (CO91 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/23) THEN R ELSE N/A (CO92 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/23) THEN R ELSE N/A (CO94 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/23) THEN R ELSE N/A (CO95 IF (NOT(A.4.3-4a/1 GR.A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.1-1b/5 AND A.4.4-1b/23) THEN R ELSE N/A (CO96 IF (NOT(A.4.3-4	COSh	
F (NOT(A.4.3-447) OR A.4.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A (NOT(A.4.3-447) OR A.4.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/3) AND (A.4.1-1/3) THEN R ELSE N/A (NOT(A.4.3-447) OR A.4.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A (NOT(A.4.3-447) OR A.4.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/15 AND A.4.4-1b/22) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/3) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/3) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/3) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/3) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/3) AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/3 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/3 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.3-486/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.4.3-486/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-18/23) THEN R ELSE N/A (NOT(A.3-447) OR A.3-486/1) AND (A	COOD	
FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/8 AND A.4.4-1b/22) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/15 AND A.4.4-1b/22) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1/5) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23 AND A.4.4-1a/25) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23 AND A.4.4-1a/25) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A FINDTI(A.3.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A FINDTI(A.3.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A FINDTI(A.3.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A FINDTI(A.3.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A FINDTI(A.3.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1b/9 AND A.4.4-1b/	007	
THÉN R ELSE N/A CO75 IF (NOT(A, 43, 44) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/3 AND A, 4.4-1b/15 AND A, 4.4-1b/22) THEN R ELSE N/A CO76 Void CO77 IF (A, 4.3-4a/1a AND A, 4.1-1/2 AND A, 4.1-1/3) THEN R ELSE N/A (B8 IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5) THEN R ELSE N/A CO80 IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5 AND A, 4.4-1a/23) THEN R ELSE N/A CO80 IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5 AND A, 4.4-1a/23) THEN R ELSE N/A CO80: Void CO80 IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5 AND A, 4.4-1a/23) THEN R ELSE N/A CO80: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5 AND A, 4.4-1a/5 AND A, 4.4-1a/23) THEN R ELSE N/A CO80: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5 AND A, 4.4-1a/3) THEN R ELSE N/A CO80: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5 AND A, 4.4-1a/15 AND A, 4.4-1a/23) THEN R ELSE N/A CO80: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/1 AND A, 4.1-1/5 AND A, 4.4-1a/16 AND A, 4.4-1a/23) THEN R ELSE N/A CO90: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/5 AND A, 4.4-1a/16 AND A, 4.4-1a/23) THEN R ELSE N/A CO91: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/5 AND A, 4.4-1a/16 AND A, 4.4-1b/25) THEN R ELSE N/A CO90: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/5 AND A, 4.4-1b/23 AND A, 4.4-1b/25) THEN R ELSE N/A CO90: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/5 AND A, 4.4-1b/23 AND A, 4.4-1b/23) THEN R ELSE N/A CO90: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/5 AND A, 4.4-1b/23) THEN R ELSE N/A CO90: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/5 AND A, 4.4-1b/23) THEN R ELSE N/A CO91: IF (NOT(A, 4.3-4a/1) OR A, 4.3-4aa/1)) AND (A, 4.1-1/2 AND A, 4.1-1/5 AND A, 4.4-1b/23) THEN R ELSE N/A IF (NOT(A, 4.3-4a/1) OR A, 4.3-4a		
FINDTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/15 AND A.4.4-1b/22) THEN R ELSE N/A	C07a	
THÉN R ELSE N/A CO76 CO77 TIF (A.4.3-4a/1a AND A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 a AND A.4.1-1/3 AND A.4.1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A CO80 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A CO80 CO80 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23) AND A.4.4-1a/25) THEN R ELSE N/A CO80 CO80 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A CO80 IF (A.1.1-1/1 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1a/9 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A CO81 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A CO81 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A CO82 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A CO93 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1a/16 AND A.4.4-1b/25) THEN R ELSE N/A CO94 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A CO95 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A CO96 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1b/3 AND A.4.4-1b/23) THEN R ELSE N/A CO97 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1b/3 AND A.4.4-1b/23) THEN R ELSE N/A CO98 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A CO99 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.3-1/10 AND A.4.3-1-1/6 AND A.4.3-1-1/6 AND A.4.3-1		THEN R ELSE N/A
CO7c Void IF (A.4.3-4a/1a AND A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1a/5) THEN R ELSE N/A IF (NOT(A.4.3-4a/4) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1a/5) THEN R ELSE N/A Void IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1a/5) AND A.4.4-1a/23 AND A.4.4-1a/23 AND A.4.4-1a/25 THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/23 AND A.4.4-1a/23 THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.3-4aa/1) AND (A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1a/23) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.1-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.1-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-1b/5 AND A.4.4-1b/23) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1) AND (A.4.1-1/2 AND A.4.1-1b/5 AND A.4.4-1b/5 AND A	C07b	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.4-1b/15 AND A.4.4-1b/22)
CO70		THEN R ELSE N/A
CO70	C07c	
CO8a		
CO8a IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1a/9 AND A.4.4-1a/23) THEN R ELSE N/A		
Cobb		
THEN R ELSE N/A C08c Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A C08c IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1a/9 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A C08f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A C08g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A C09a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C09b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/25) THEN R ELSE N/A C09c Void C09c Void C09c Void C09d Void C09d IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/3 THEN R ELSE N/A C09f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/3 THEN R ELSE N/A C09f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/3 THEN R ELSE N/A C09f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C10g IF (A.4.1-1/4 AND A.4.1-1/5 THEN R ELSE N/A C11 IF (A.4.1-1/4 AND A.4.1-1/6 AND A.4.1-1/17 AND A.4.1-1/2 AND A.4.1-1/5 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C11 IF (A.4.1-1/4 AND A.4.1-1/7 THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2		
C08c	COSD	
CO8d		
A.4.4-1a/23) THEN R ELSE N/A C086 IF (A.4.1-1/1 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1a/9 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A C087 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A C088 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A C099 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C090 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) AND A.4.4-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A C090 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A C090 Void C090 Void C090 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/5 AND A.4.4-1b/23) THEN R ELSE N/A C091 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C091 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/23) THEN R ELSE N/A C092 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C093 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C094 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.1-1/2 AND A.4.1-1/2 AND A.4.1-1/16 AND A.4.4-1b/23) THEN R ELSE N/A C12 V0id C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN		
F (A.4.1-1/1 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1a/9 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A	C08d	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/5 AND A.4.4-1a/15 AND
ELSE N/A CO8f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A CO8g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A CO9 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A CO9a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A CO9b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A CO9c Void CO9c Void CO9e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C12 Void IF (A.4.1-1/1 AND A.4.1-1/6) AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C12 Void IF (A.4.1-1/1 AND A.4.1-1/7) AND A.4.4-1a/11 AND A.4.5-1/2) THEN R ELSE N/A C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C17 Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C18 IF (NOT(A.4.3-4		A.4.4-1a/23) THEN R ELSE N/A
ELSE N/A CO8f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/15 AND A.4.4-1a/23) THEN R ELSE N/A CO8g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A CO9 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A CO9a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A CO9b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A CO9c Void CO9c Void CO9e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A CO9h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C12 Void IF (A.4.1-1/1 AND A.4.1-1/6) AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C12 Void IF (A.4.1-1/1 AND A.4.1-1/7) AND A.4.4-1a/11 AND A.4.5-1/2) THEN R ELSE N/A C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C17 Void IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C18 IF (NOT(A.4.3-4	C08e	
CO8f		
THEN R ELSE N/A C08g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A C09 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C09 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C09a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/23) AND A.4.4-1b/25) THEN R ELSE N/A C09b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A C09c Void C09d Void C09d IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1b/15 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C10g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7 THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1a/2 AND A.4.4-1a/24) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C17 Void C18 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C19 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C17 Void C18 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	COSf	
C08g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5 AND A.4.4-1a/16 AND A.4.4-1a/23) THEN R ELSE N/A	0001	
THÉN R ELSE N/A C09 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C09a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C09b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/23 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A C09c Void C09d Void C09e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/24) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A	C00a	
C09 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A C09a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A C09b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A C09c Void C09d Void C09e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C16 IF (A.4.1-1/1 AND A.4.1-1/7) AND A.4.4-1a/12 AND A.4.5-1/2) THEN R ELSE N/A C17 Void C18 IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C18 IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C19 IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A	Coog	
C09a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/23 AND A.4.4-1b/25) THEN R ELSE N/A C09b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A C09c Void C09d Void C09d IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C17 Void C18 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A	000	
THEN R ELSE N/A C09b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/23) THEN R ELSE N/A C09c Void C09d Void C09e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10h IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10h IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10h IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11h IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12h Void C13h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C16h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/2) THEN R ELSE N/A C17h Void C18h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17h Void C18h IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18h IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C19h IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C19h IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A		
C09b	C09a	
C09c Void C09d Void C09d IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C09c Void C09d Void C09e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7) AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 </td <td>C09b</td> <td>IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND</td>	C09b	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND
C09d Void C09e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		A.4.4-1b/23) THEN R ELSE N/A
C09d Void C09e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	C09c	Void
C09e IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7 THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		Void
A.4.4-1b/23) THEN R ELSE N/A C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C17 Void C18 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C19 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A		IF (NOT(A 4 3-4a/1 OR A 4 3-4aa/1)) AND (A 4 1-1/2 AND A 4 1-1/5 AND A 4 4-1b/5 AND A 4 4-1b/15 AND
C09f IF (A.4.1-1/2 AND A.4.1-1/5 AND A.4.5-1/16 AND A.4.4-1b/9 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/3) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
ELSE N/A C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	COOf	
C09g IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/15 AND A.4.4-1b/23) THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	C091	
THEN R ELSE N/A C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	000	
C09h IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/5 AND A.4.4-1b/16 AND A.4.4-1b/23) THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18 IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	Coad	
THEN R ELSE N/A C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C10 IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	C09h	
C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C10a IF (A.4.1-1/1 AND A.4.1-1/6 AND A.4.4-1a/12 AND A.4.4-1a/26) THEN R ELSE N/A C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	C10	IF (A.4.1-1/1 AND A.4.1-1/6) THEN R ELSE N/A
C11 IF (A.4.1-1/1 AND A.4.1-1/7) THEN R ELSE N/A C12 IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/4) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C11a IF (A.4.1-1/1 AND A.4.1-1/7 AND A.4.4-1a/11 AND A.4.4-1a/24) THEN R ELSE N/A C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C12 Void C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C13 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/2) THEN R ELSE N/A C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C14 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.5-1/3) THEN R ELSE N/A C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C15 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/44) THEN R ELSE N/A C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C16 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.5-1/45) THEN R ELSE N/A C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C17 Void C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C18 IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		Void
C18a IF (A.4.1-1/1 AND A.4.2-1/2) AND A.4.3-3a/7 THEN R ELSE N/A C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A	C18	IF (A.4.1-1/1 AND A.4.2-1/2) THEN R ELSE N/A
C18b Void C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
C19 IF (A.4.1-1/2 AND A.4.2-1/2) THEN R ELSE N/A		
UT30 IF (A.4.1-1/2 AND A.4.2-1/2) AND A.4.3-38/T THEN K ELSE N/A		
	UISa	IF (A.4.1-1/2 AND A.4.2-1/2) AND A.4.3-38// THEN K ELSE N/A

F. (A.4.1-1/2 AND A.4.2-1/2) AND A.4.3-398 HEN N ELSE NA	0.401	15 (A 4 4 4 6 AND A 4 6 4 6) AND A 4 6 6 (6 THEN DELOCAL)
(22) F (NOTICA, 3-4ar) OR A.4.3-4ar) (A) AND A.4.1-1/3 AND (A.4.1-1a/5 AND A.4.1-1a/5 A	C19b	IF (A.4.1-1/2 AND A.4.2-1/2) AND A.4.3-3a/8 THEN R ELSE N/A
(A.4.4-1a/25 AND A.4.4-1b/25) AND (A.4.4-1b/30) AND A.4.1-1b/30) THEN R ELSE NA C22 F (NOTI(A.3-4a/4) OR A.4.3-4a/4)) AND (A.4.1-1a/3 AND A.4.1-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/26) AN	C20	Void
(A.4.4-1a/25 AND A.4.4-1b/25) AND (A.4.4-1b/30) AND A.4.1-1b/30) THEN R ELSE NA C22 F (NOTI(A.3-4a/4) OR A.4.3-4a/4)) AND (A.4.1-1a/3 AND A.4.1-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/25) AND (A.4.4-1b/26) AN		IF (NOT(A 4 3-4a/1 OR A 4 3-4aa/1)) AND A 4 1-1/1 AND A 4 1-1/2 AND (A 4 4-1a/5 AND A 4 4-1b/5) AND
C22	02.	
THEN R ELSE NA C21a F (A.1-1/17 AND A.4.1-1/2) AND (A.4.4-1a/5 AND A.4.4-1b/5) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND (A.4.4-1a/25) AND A.4.4-1a/25) AND (A.4.4-1a/25) AND A.4.4-1a/25) AND A.4.4-1a/25) AND A.4.4-1a/25) AND A.4.4-1a/25 AND A.4.4-1a/25) AND A.4.4-1a/25 AND A.4.4-1a/25 AND A.4.4-1b/25) AND (A.4.1-1a/2 AND A.4.1-1a/25) THEN R ELSE N/A C25 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1)) AND (A.4.1-1a/1 AND NOT A.4.4-1a/5) THEN R ELSE N/A C25 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1)) AND (A.4.1-1a/1 AND A.4.1-1a/1 AND A.4.1-1a/1 AND A.4.1-1a/1 THEN R ELSE N/A C26 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1) OR A.4.3-1a/1) THEN R ELSE N/A C26 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1) AND A.4.1-1a/1 THEN R ELSE N/A C27 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1) OR A.4.3-1a/1) THEN R ELSE N/A C27 F (NOT(A.4.3-4a/1) OR A.4.3-1a/1) AND A.4.1-1a/1 THEN R ELSE N/A C27 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1) OR A.4.3-1a/1) THEN R ELSE N/A C28 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1) OR A.4.3-1a/1) THEN R ELSE N/A C28 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1) AND A.4.1-1a/1 THEN R ELSE N/A C29 F (NOT(A.4.3-4a/1) OR A.4.3-4a/1) NAD (A.4.1-1a/1 AND A.4.1-1a/3 AND A.4.1-1a/5) THEN R ELSE N/A C30 Void C31 F (NOT(A.4.3-4a/1) OR A.4.3-4a/2) THEN R ELSE N/A C32 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C32 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C32 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C32 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C32 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C33 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C33 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C33 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C33 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C34 F (N.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C35 F (A.4.1-1a/1 AND A.4.2-1a/2 AND A.4.4-1a/2) THEN R ELSE N/A C36 F (N.4.1-1a/1 AN	000	
(24.4-14/30) AND A.4-1-1/23 (AND (A.4-1-18/25) AND (A.4-1-18/25)	C22	
(A.4.4-1a/30 AND A.4.4-1b/30) AND A.4.3-a/1a THEN R ELSE N/A 23 IF (NOTI(A.4.3-4a/1 OR A.4.3-a/a)) AND (A.4.1-1/1 AND NOT A.4.4-1a/5) THEN R ELSE N/A 24 IF (NOTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND NOT A.4.4-1b/5) THEN R ELSE N/A 25 IF (NOTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND NOT A.4.4-1b/5) THEN R ELSE N/A 26 IF (NOTI(A.4.3-4a/1 OR A.4.3-4a/1) AND A.4.1-1/4) THEN R ELSE N/A 27 IF (NOTI(A.4.3-4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A 28 IF (A.3.4a/1a AND A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A 29 IF (NOTI(A.4.3-4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A 20 IF (A.3.4a/1a AND A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A 21 IF (NOTI(A.3.4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/3) THEN R ELSE N/A 22 IF (NOTI(A.3.4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/3) THEN R ELSE N/A 23 IF (A.3.4a/1 AND A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A 24 IF (NOTI(A.3.4a/1 OR A.4.3-4a/1) AND (A.4.1-1/3) THEN R ELSE N/A 25 IF (NOTI(A.3.4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3) THEN R ELSE N/A 26 IF (NOTI(A.3.4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3) THEN R ELSE N/A 27 IF (NOTI(A.3.4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3) THEN R ELSE N/A 28 IF (A.3.1-1/1 AND A.4.2-1/2 AND A.4.3-aa/1) THEN R ELSE N/A 29 IF (A.3.1-1/1 AND A.4.2-1/2 AND A.4.3-aa/1) THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) AND A.4.3-3a/7 THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) AND A.4.3-3a/7 THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 21 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 22 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A		
(A.4.4-1a/30 AND A.4.4-1b/30) AND A.4.3-a/1a THEN R ELSE N/A 23 IF (NOTI(A.4.3-4a/1 OR A.4.3-a/a)) AND (A.4.1-1/1 AND NOT A.4.4-1a/5) THEN R ELSE N/A 24 IF (NOTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND NOT A.4.4-1b/5) THEN R ELSE N/A 25 IF (NOTI(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND NOT A.4.4-1b/5) THEN R ELSE N/A 26 IF (NOTI(A.4.3-4a/1 OR A.4.3-4a/1) AND A.4.1-1/4) THEN R ELSE N/A 27 IF (NOTI(A.4.3-4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A 28 IF (A.3.4a/1a AND A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A 29 IF (NOTI(A.4.3-4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A 20 IF (A.3.4a/1a AND A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A 21 IF (NOTI(A.3.4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/3) THEN R ELSE N/A 22 IF (NOTI(A.3.4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/3) THEN R ELSE N/A 23 IF (A.3.4a/1 AND A.4.1-1/2 AND A.4.1-1/3) THEN R ELSE N/A 24 IF (NOTI(A.3.4a/1 OR A.4.3-4a/1) AND (A.4.1-1/3) THEN R ELSE N/A 25 IF (NOTI(A.3.4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3) THEN R ELSE N/A 26 IF (NOTI(A.3.4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3) THEN R ELSE N/A 27 IF (NOTI(A.3.4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/3 AND A.4.1-1/3 AND A.4.1-1/3) THEN R ELSE N/A 28 IF (A.3.1-1/1 AND A.4.2-1/2 AND A.4.3-aa/1) THEN R ELSE N/A 29 IF (A.3.1-1/1 AND A.4.2-1/2 AND A.4.3-aa/1) THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) AND A.4.3-3a/7 THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) AND A.4.3-3a/7 THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 20 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 21 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A 22 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/2/5) THEN R ELSE N/A	C21a	IF (A.4.1-1/1 AND A.4.1-1/2) AND (A.4.4-1a/5 AND A.4.4-1b/5) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND
F (NOT(A, 3-4-af) OR A.4.3-4aa(1)) AND (A.4.1-1/1 AND NOT A.4.4-1a/5) THEN R ELSE N/A (CS5 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1)) AND (A.4.1-1/1 AND NOT A.4.4-1b/5) THEN R ELSE N/A (CS5 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A (CS5 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1) OR A.4.3-4aa(1)) AND (A.4.1-1/4 AND A.4.1-1/4) THEN R ELSE N/A (CS6 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1) OR A.4.3-4aa(1)) AND (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A (CS6 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1) OR A.4.3-4aa(1)) AND (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A (CS6 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1) OR A.4.3-4aa(1)) AND (A.4.1-1/4 AND A.4.1-1/5) THEN R ELSE N/A (CS6 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1) OR A.3-4aa(1)) AND (A.4.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A (CS6 IF (NOT(A, 4.3-af) OR A.4.3-4aa(1)) AND (A.1.1-1/2 AND A.4.1-1/5) THEN R ELSE N/A (CS8 IF (A.3-4a-1/2 AND A.4.1-1/2 AND A.4.1-1/2 AND A.4.1-1/3 AND A.4.1-1/3 THEN R ELSE N/A (CS8 IF (A.3-4a-1/2 AND A.4.1-1/2 AND A.4.1-1/2 AND A.4.1-1/3 AND		(A.4.4-1a/30 AND A.4.4-1b/30) AND A.4.3-4a/1a THEN R FLSE N/A
F (NOTIA, 3-4a/1 OR A.4.3-4a/1) (AND (A.4.1-1/2 AND NOT A.4.4-1b/5) THEN R ELSE N/A (C25	C22	
C25a IF (NOTI(A.4.3-4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/1 AND) (A.4.1-1/1 AND) (A.1.1-1/1 AND) (A.4.1-1/1 AND) (A.1.1-1/1 AND) (A.4.1-1/1 AND)		
C256		
F (NOTI(A.4.3-4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A C27a	C25	IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A
F (NOTI(A.4.3-4a/1 OR A.4.3-4a/1 OR A.4.3-4a/1) AND (A.4.1-1/2 AND A.4.1-1/4) THEN R ELSE N/A C27a	C25a	IF (A.4.3-4a/1a AND A.4.1-1/1 AND A.4.1-1/4) THEN R ELSE N/A
C268		
F(A.1.1.1/A ND A.4.3-4.4/A OR A.4.3-4.4/A OR A.4.3-4.6 F(A.34.3/A ND A.4.1-1.4) NAD A.4.1-1.6 F(A.34.3/A ND A.4.1-1.6) NAD A.4.1-1.7 F(NOT(A.4.3-4.3/A ND A.4.1-1.7) NAD A.4.1-1.7 F(NOT(A.4.3-4.3/A ND A.4.1-1.7) NAD A.4.1-1.7 F(NOT(A.4.3-4.3/A ND A.4.3-4.3.7) NAD (A.4.1-1.7) NAD A.4.1-1.7 F(NOT(A.4.3-4.3/A ND A.4.3-4.3.7) NAD (A.4.1-1.7) NAD A.4.1-1.7 F(NOT(A.4.3-4.3/A ND A.4.3-4.3.7) NAD (A.4.1-1.7) NAD A.4.1-1.7 F(A.4.1-1.7) NAD A.4.2-1.7 F(A.4.1-1.7) N		
C27a		
F(NOT(A.4.3-44)*1 OR A.4.3-44)*1 OR A.4.3-46)*1 NHO (A.4.1-1/2 AND A.4.1-1/5)* THEN R ELSE N/A C280	C27	IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1a OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A
F(NOT(A.4.3-44)*1 OR A.4.3-44)*1 OR A.4.3-46)*1 NHO (A.4.1-1/2 AND A.4.1-1/5)* THEN R ELSE N/A C280	C27a	IF (A.4.3-4a/1a AND A.4.1-1/1 AND A.4.1-1/5) THEN R ELSE N/A
C289		
Fig.		
C30 Void C31 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/15 AND A.4.4-1b/22) THEN R ELSE N/A C32 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) AND A.4.3-3a/7 THEN R ELSE N/A C32a IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) THEN R ELSE N/A C32b IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) THEN R ELSE N/A C32c IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) THEN R ELSE N/A C33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33b IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33d IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A C34 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A C37 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A C37 IF (NOT(A.4.3-4a/4) OR A.4.3-4a/a/1)) AND A.4.1-1b/12 AND A.4.1-1b/24 AND A.4.1-1b/3 AND A.4.1-1b/3		
Fig.		IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15) THEN R ELSE N/A
Fig.	C30	Void
AND A.41b/22) THEN R ELSE N/A C322 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3a/11) THEN R ELSE N/A C32a IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) AND A.4.3-3a/7 THEN R ELSE N/A C32b IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) THEN R ELSE N/A C32c IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3a/11) AND A.4.3-3a/7 THEN R ELSE N/A C33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) THEN R ELSE N/A C33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) THEN R ELSE N/A C33b IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A C33d IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) AND A.4.3-3a/7 THEN R ELSE N/A C34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) AND A.4.3-3a/8 THEN R ELSE N/A C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A C35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A C36 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A C38 IF (NOT(A.4.3-4a/1 OR A.3-3-4a/3) NAD (A.4.3-1b/24) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4a/3-1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.4-1b/4) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/55) AND A.4.3-4aa/1) AND (A.4.4-1b/25) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.2-1/2 AN		
G322 IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-3a/11) THEN R ELSE N/A	55.	
G32b IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) AND A.4.3-3a/7 THEN R ELSE N/A		
G32b IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) THEN R ELSE N/A		
G32b IF (A.4.1-1/I AND A.4.2-1/2 AND A.4.4-1a/25) THEN R ELSE N/A G32c IF (A.4.1-1/I AND A.4.2-1/2 AND A.4.4-3a/111) AND A.4.3-3a/7 THEN R ELSE N/A G33 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) THEN R ELSE N/A G33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) AND A.4.3-3a/7 THEN R ELSE N/A G33b IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A G33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) AND A.4.3-3a/7 THEN R ELSE N/A G33d IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) AND A.4.3-3a/8 THEN R ELSE N/A G33d IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/11) AND A.4.3-3a/8 THEN R ELSE N/A G34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A G35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G36 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/26) THEN R ELSE N/A G38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A <		IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25) AND A.4.3-3a/7 THEN R ELSE N/A
G320	C32b	
G33		
G33a IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) AND A.4.3-3a/7 THEN R ELSE N/A G33b IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A G33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/7 THEN R ELSE N/A G34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/8 THEN R ELSE N/A G35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A G35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A G36 IF (A.4.1-1/2 AND A.4.1-1/6) AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A C38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4) AND (A.4.1-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C42a IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/15) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.4-1b/25) AND A.4.3-4aa/1) THEN R ELSE N/A		
G33b IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A G33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/7 THEN R ELSE N/A G34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/8 THEN R ELSE N/A G34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A C36 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/12 AND A.4.4-1b/24) THEN R ELSE N/A C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/26) THEN R ELSE N/A C38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/25) AND A.4.4-1b/25) THEN R ELSE N/A C42a IF (A.4.1-1/1 AN		
 G33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/7 THEN R ELSE N/A G34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/8 THEN R ELSE N/A G35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A G36 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A G38 IF (NA-1.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/24) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G40 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A G42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/15) THEN R ELSE N/A G44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A G45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A G46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A G47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-	C33a	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) AND A.4.3-3a/7 THEN R ELSE N/A
 G33c IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/7 THEN R ELSE N/A G34 IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-3b/111) AND A.4.3-3a/8 THEN R ELSE N/A G35 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A G36 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A G38 IF (NA-1.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/24) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G40 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A G42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/15) THEN R ELSE N/A G44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A G45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A G46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A G47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-	C33b	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25) THEN R ELSE N/A
 G33d IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.3-3/11) AND A.4.3-3/3/8 THEN R ELSE N/A G34 IF (A.4.1-1/2 AND A.4.1-1/6) THEN R ELSE N/A G35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G36 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A G38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4)) AND (A.4.1-1/2 AND A.4.1-1/2 AND A.4.4-1a/25) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1a/25)) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A G41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A G42 IF (NOT(A.4.3-4a/1 OR A.3-3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/10 R A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.1-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/10 R A.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A G42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A G43 IF (NOT(A.4.3-4a/1 OR A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/3 THEN R ELSE N/A G44 IF (NOT(A.3-4a/1 OR A.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15)		
G34		
C35 IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A C36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/24) THEN R ELSE N/A C38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/42)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) THEN R ELSE N/A C42a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4aa/1) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C45 IF (NOT(A.3-3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-		
G36 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A G37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/24) THEN R ELSE N/A G38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A G39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) THEN R ELSE N/A C42a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b		
C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/24) THEN R ELSE N/A C38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4)) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16)) AND (A.4.4-1a/25 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/25 AND A.4.3-4aa/1) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/3 THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELS	C35	IF (A.4.1-1/2 AND A.4.1-1/7) THEN R ELSE N/A
C37 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/11 AND A.4.4-1b/24) THEN R ELSE N/A C38 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/4 AND A.4.4-1b/4)) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16)) AND (A.4.4-1a/25 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1a/25 AND A.4.3-4aa/1) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/3 THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELS	C36	IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/12 AND A.4.4-1b/26) THEN R ELSE N/A
C38		
(A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 A		
C39 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/3 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16)) AND (A.4.4-1a/25 AND A.4.1-1/2 AND (A.4.1-1b/25)) THEN R ELSE N/A C42a IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A	C38	
A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42a IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/3 T THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
A.4.4-1b/25)) THEN R ELSE N/A C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42a IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/3 T THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C39	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/ 3 AND (A.4.4-1a/25 AND
C39a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND A.4.5-1/45 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A		,, ,
A.4.4-1b/25)) THEN R ELSE N/A C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16)) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42a IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3b/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C202	
C40 IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42a IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.3-3a/15) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/15) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A	Cosa	
C41 IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A		
C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16)) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.3-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3b/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A	C40	IF (A.4.1-1/2 AND A.4.1-1/6 AND A.4.4-1b/15) THEN R ELSE N/A
C42 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16)) AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42 IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.3-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3b/115) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A	C41	IF (A.4.1-1/2 AND A.4.1-1/7 AND A.4.4-1b/15) THEN R ELSE N/A
AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R ELSE N/A C42a IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1a/25 AND NOT A.4.5-1/5) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C42	IF (NOT(A 4.3-4a/1 OR A 4.3-4aa/1)) AND (A 4.1-1/1 AND A 4.1-1/2 AND (A 4.4-1a/16 AND A 4.4-1b/16)
IF (A.4.1-1/1 AND A.4.1-1/2 AND (A.4.4-1a/16 AND A.4.4-1b/16) AND (A.4.4-1a/25 AND A.4.4-1b/25) AND A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.3-4aa/1) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	•	
A.4.3-4a/1a) THEN R ELSE N/A C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3a/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A	040-	
C43 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C49 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1a/25) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C42a	
R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A		
R ELSE N/A C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A	C43	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.2-1/2 AND A.4.4-1a/15) THEN
C44 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) THEN R ELSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
R ÈLSE N/A C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C44	
C44a IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A		
A.4.3-3a/7 THEN R ELSE N/A C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A		
C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A	C44a	
C44b IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.2-1/2 AND A.4.4-1b/15) AND A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A	<u></u>	
A.4.3-3a/8 THEN R ELSE N/A C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C44h	
C45 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-3a/115) THEN R ELSE N/A C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
C46 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.4-3b/115) THEN R ELSE N/A C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	CAE	
C47 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
N/A C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C47	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.4-1a/25 AND NOT A.4.5-1/4) THEN R ELSE
C48 IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22 AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
AND NOT A.4.5-1/5) THEN R ELSE N/A C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C48	·
C49 IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	040	
C50 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		IF (A.4.1-1/1 AND A.4.5-1/6) THEN R ELSE N/A
C51 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A	C50	IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.4-1a/16) THEN R ELSE N/A
C52 IF (A.4.1-1/1 AND A.4.3-3/31 AND A.4.1-1/3) THEN R ELSE N/A		
C53 IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.1-1/3) THEN R ELSE N/A		
	C53	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.1-1/3) THEN R ELSE N/A

054	15 /A 4 4 // AND A 4 5 4 /0 AND A 4 4 4 /0 AND A 4 5 4 /0 AND A 4 6 /0 AND A 4 5 4 /0 AND A 4 6 /0
C54	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.1-1/3 AND A.4.4-1a/8 AND A.4.4-1a/22) THEN R ELSE N/A
C55	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.1-1/3 AND A.4.4-1a/15 AND A.4.4-1a/22) THEN R ELSE N/A
C56	IF (A.4.1-1/1 AND A.4.5-1/6 AND A.4.4-1a/5) THEN R ELSE N/A
C57	IF (A.4.1-1/1 AND ((A.4.6.1-1/1 OR A.4.6.1-1/2) AND (A.4.6.1-2/1 OR A.4.6.1-2/2)) AND A.4.4-1a/5) THEN R
C57	
	ELSE N/A
C58	IF (A.4.1-1/2 AND ((A.4.6.1-1/1 OR A.4.6.1-1/2) AND (A.4.6.1-2/1 OR A.4.6.1-2/2)) AND A.4.4-1b/5) THEN R
	ELSE N/A
C58a	IF (A.4.1-1/2 AND ((A.4.6.1-1/1 OR A.4.6.1-1/2) AND (A.4.6.1-2/1 OR A.4.6.1-2/2)) AND A.4.4-1b/5) AND
0304	
	A.4.3-3a/8 THEN R ELSE N/A
C59	IF (A.4.1-1/1 AND A.4.5-2/1 AND A.4.4-3a/115) THEN R ELSE N/A
C60	IF (A.4.1-1/2 AND A.4.5-2/1 AND A.4.5-2/2 AND A.4.4-3b/115) THEN R ELSE N/A
C61	IF (A.4.1-1/1 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3) THEN R ELSE N/A
C62	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
C62	
	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3) THEN R ELSE N/A
C62a	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.3-3a/7) THEN R ELSE N/A
C62b	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
0025	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.3-3a/8) THEN R ELSE N/A
000	
C63	IF (A.4.1-1/1 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.4-1a/5) THEN R ELSE N/A
C64	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.4-1b/5) THÉN R ÈLSE N/A
C64a	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
55-4	
	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.4-1b/5 AND A.4.3-3a/7) THEN R
	ELSE N/A
C64b	IF (A.4.1-1/2 AND (((A.4.6.1-1/1 AND A.4.6.1-2/1) OR (A.4.6.1-1/2 AND A.4.6.1-2/2)) OR (A.4.6.2-1/1 AND
	A.4.6.2-2/1) OR (A.4.6.3-1/1 AND A.4.6.3-2/1)) AND A.4.5-2/3 AND A.4.4-1b/5 AND A.4.3-3a/8) THEN R
	ELSE N/A
C65	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-2a/39) THEN R ELSE N/A
C66	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-2b/39) THEN R ELSE N/A
C67	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN
1 (:67	- 1E ((A /) 1-1/1 ANI) A // 1-1/2) ANI) A // 6-1/1 ANI) A // 5-1/15 ANI) (A // //-39/111 ANI) A // //-36/111) (HEN -)
007	
	R ELSE N/A
C68	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN
	R ELSE N/A
C68	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A
C68	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A
C68 C69 C69a	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A
C68 C69 C69a C69b	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A
C68 C69 C69a C69b C70	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A
C68 C69 C69a C69b C70	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.3-1/3) OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND (A.4.6.1-1/3) OR A.4.6.3-1/3) OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2) OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) OR A.4.6.3-1/3) OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2) OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b	R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3) OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND (A.4.6.1-1/3) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3) OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/111) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/111) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75c C75d C76 C76a C76b	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75c C75d C76 C76a C76b C76c	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75d C76 C76a C76b C76c C76c	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75c C75d C76 C76a C76b C76c	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75d C76 C76a C76b C76c C76c	R ÈLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75d C76 C76a C76b C76c C76d C776	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/11) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/11) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/11) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/11) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/111) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/111) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/111) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4a/1)) AND (A.4.1-1b/111) AND A.4.1-1b/14 AND A.4.4-1a/15 AND A.4.4-1a/26)9) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75d C76 C76a C76b C76c C76c	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a C76b C76c C76c C76c C76d C77	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/15 AN
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75c C75d C76 C76a C76b C76c C76d C776	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1b/25) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/25) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/25) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/25) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1b/25) THEN R ELSE N/A IF (N.4.1-1/2 AND A.4.6-1/4 AND A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a C76b C76c C76c C76c C76c C776c C777	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2) OR A.4.6.3-1/3) OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2) OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R E
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a C76b C76c C76c C76c C76d C77	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) OR A.4.6.3-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1b/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-2a/39) THEN R ELSE N/A IF (NOT(A.4.3-4a/1) OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-2a/39) THEN R ELSE N/A
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a C76b C76c C76c C76c C76c C776c C777	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1-1/3) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.1-1/3) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-2a/39) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-2b/39) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a C76b C76c C76a C76b C76c C76a C76b C76c C76c C76d C77	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/3 OR A.4.6.3-1/3) OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/11) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) TH
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a C76b C76c C76a C76b C76c C76d C77	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2) OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/3) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) AND A.4.4-1a/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND A.4.4-1a/15 AND A.4.4-2a/39) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/5 AND A.4.4-2b/39) THEN R ELSE N/A IF (NOT(A.4.3-4a/1
C68 C69 C69a C69b C70 C70a C70b C71 C72 C73 C74 C75 C75a C75b C75c C75d C76 C76a C76b C76c C76a C76b C76c C76a C76b C76c C76c C76d C77	R ÉLSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/1 AND (A.4.6.3-1/3 OR A.4.6.3-1/3) OR A.4.6.3-1/4)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2)) THEN R ELSE N/A IF (A.4.1-1/2 AND (A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/2) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/11) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4 AND A.4.4-1a/15) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.6-1/4) TH

C83	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/15
C84	AND A.4.4-1b/25) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/5
C04	AND A.4.4-1b/15 AND A.4.4-1b/25) THEN R ELSE N/A
C85	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1a/15
	AND A.4.4-1a/22) THEN R ELSE N/A
C86	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/22
	AND A.4.4-1b/25) THEN R ELSE N/A
C87	Void
C88	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND NOT A.4.3-7/2 AND A.4.3-4a/1 AND A.4.4-1a/16)
C89	THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.3-4a/1 AND A.4.3-7/2 AND A.4.4-1a/16)
000	THEN R ELSE N/A
C90	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.3-4a/1 AND A.4.4-1b/16) THEN R ELSE N/A
C91	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.4-1a/25) THEN R ELSE N/A
C92	IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND A.4.4-1a/25) THEN R ELSE N/A
C93	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/2 AND A.4.3-4a/1 THEN R ELSE N/A
C93a	IF A.4.1-1/2 AND A.4.3-4aa/1 THEN R ELSE N/A
C93b C93c	IF A.4.1-1/2 AND A.4.3-4aa/1 AND A.4.4-1a/16 THEN R ELSE N/A IF A.4.1-1/2 AND A.4.3-4aa/1 AND A.4.4-1a/5 THEN R ELSE N/A
C93d	IF A.4.1-1/2 AND A.4.3-4aa/1 AND A.4.4-1a/5 THEN R ELSE N/A IF A.4.1-1/2 AND A.4.3-4aa/1 AND A.4.5-1/26 AND A.4.4-1a/16 THEN R ELSE N/A
C93e	IF A.4.1-1/2 AND (A.4.3-4aa/1 AND A.4.5-1/26) THEN R ELSE N/A
C93f	IF A.4.1-1/2 AND (A.4.3-4aa/1 AND A.4.5-1/26) AND A.4.5-1/2 THEN R ELSE N/A
C94	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/1 AND NOT A.4.3-7/2 AND A.4.3-4a/1 THEN R ELSE
	N/A
C94a	IF A.4.1-1/1 AND NOT A.4.3-7/2AND A.4.3-4aa/1 THEN R ELSE N/A
C94b	IF A.4.1-1/1 AND NOT A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.4-1a/5 THEN R ELSE N/A
C94c	IF A.4.1-1/1 AND NOT A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.4-1a/16 THEN R ELSE N/A
C94d C94e	Void IF A.4.1-1/1 AND NOT A.4.3-7/2 AND (A.4.3-4aa/1 AND A.4.5-1/26) THEN R ELSE N/A
C946	IF A.4.1-1/1 AND A.4.3-7/2 AND (A.4.3-4aa/1 AND A.4.5-1/26) THEN R ELSE N/A
C94g	IF A.4.1-1/1 AND NOT A.4.3-7/2 AND (A.4.3-4aa/1 AND A.4.5-1/26) AND A.4.5-1/2 THEN R ELSE N/A
C94h	IF A.4.1-1/1 AND NOT A.4.3-7/2 AND (A.4.3-4aa/1 AND A.4.5-1/26) AND A.4.4-1a/5 THEN R ELSE N/A
C94i	IF A.4.1-1/1 AND A.4.3-7/2 AND (A.4.3-4aa/1 AND A.4.5-1/26) AND A.4.4-1a/5 THEN R ELSE N/A
C94k	Void
C94m	Void
C95	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/1 AND NOT A.4.3-7/2 AND A.4.4-1a/5 AND A.4.3-4a/1 THEN R ELSE N/A
C96	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/2 AND A.4.4-1b/5 AND A.4.3-4a/1 THEN R ELSE N/A
C97	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/5) THEN R ELSE N/A
C98	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/5) THEN R ELSE N/A
C99	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C100	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C101	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/16) THEN R ELSE N/A
C102	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/16) THEN R ELSE N/A
C103 C104	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.4-1b/16 AND A.4.4-1b/25) THEN R ELSE N/A
C104	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/1 AND A.4.1-1/4 AND (NOT A.4.1-1/3) AND A.4.4-1a/22)
5100	THEN R ELSE N/A
C106	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND (NOT A.4.1-1/3) AND A.4.4-1b/22)
	THÈN RÈLSE N/A
C107	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/1 AND A.4.3-4a/1 AND A.4.3-7/2 THEN R ELSE N/A
C107a	IF A.4.1-1/1 AND A.4.3-7/2 AND A.4.3-4aa/1 THEN R ELSE N/A
C107b	Void
C107c	IF A.4.1-1/1 AND A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.4-1a/5 THEN R ELSE N/A IF A.4.1-1/1 AND A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.4-1a/16 THEN R ELSE N/A
C107d	IF A.4.1-1/1 AND A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.5-1/26 AND A.4.4-1a/16 THEN R ELSE N/A
C1076	IF A.4.1-1/1 AND NOT A.4.3-7/2 AND A.4.3-4aa/1 AND A.4.5-1/26 AND A.4.4-1a/16 THEN R ELSE N/A
C108	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/2 AND NOT A.4.3-7/2 AND A.4.5-1/1 AND A.4.5-1/2 AND
	A.4.3-4a/1 THEN R ELSE N/A
C108a	IF (A.4.3-4a/1a AND A.4.1-1/1) AND A.4.5-1/1 AND A.4.5-1/2 AND THEN R ELSE N/A
C108b	IF (A.4.3-4a/1a AND A.4.1-1/1) AND A.4.5-1/1 AND A.4.5-1/2 AND A.4.4-1a/5 THEN R ELSE N/A
C109	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/2 AND A.4.3-4a/1 AND
C110	A.4.3-7/2 THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/1 AND A.4.3-7/2 AND A.4.3-4a/1 THEN R ELSE N/A
	II (INOTIA,4,3-4a/ FOR A,4,3-4aa/ F) AND A,4, I-1/ FAND A,4,3-7/2 AND A,4,3-4a/ FINEN K ELSE N/A

C111	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/1 AND A.4.3-7/2 AND A.4.4-1a/5 AND A.4.3-4a/1 THEN R ELSE N/A
C112	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/1 AND A.4.4-1a/5 AND A.4.3-4a/1 AND A.4.3-7/2 THEN
C113	R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND A.4.1-1/2 AND A.4.5-1/1 AND A.4.5-1/44 AND A.4.4-1b/5 AND
	A.4.3-4a/1 THEN R ELSE N/A
C114	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/16) THEN R ELSE N/A
C115	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/16) THEN R ELSE N/A
C116	IF (A.4.1-1/1 AND A.4.5-1/20 AND A.4.4-1a/16 AND A.4.4-1a/25) THEN R ELSE N/A
C117	IF (A.4.1-1/2 AND A.4.5-1/20 AND A.4.4-1b/16 AND A.4.4-1b/25) THEN R ELSE N/A
C118	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.5-1/20) THEN R ELSE N/A
C119	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.5-1/20) THEN R ELSE N/A IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-1b/19 AND A.4.4-1b/22)
C120	THÈN RÈLSE N/A
C121	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND (A.4.1-1/4 AND NOT A.4.1-1/3) AND A.4.4-1b/22 AND A.4.4-2b/37) THEN R ELSE N/A
C122	IF (NOT(A.4.3-4a/1 OR A.4.3-4aa/1)) AND (A.4.1-1/2 AND A.4.1-1/4 AND A.4.4-2b/37 AND A.4.4-2b/39) THEN R ELSE N/A
C123	IF A.4.1-1/1 AND A.4.2-1/8 THEN R ELSE N/A
C123a	IF A.4.1-1/1 AND A.4.1-1/2 AND A.4.2-1/8 THEN R ELSE N/A
C123b	IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/40 THEN R ELSE N/A
C124	IF A.4.1-1/2 AND A.4.2-1/8 THEN R ELSE N/A
C125	IF A.4.1-1/1 AND A.4.5-1/27 THEN R ELSE N/A
C125a	IF A.4.1-1/1 AND A.4.5-1/27 AND A.4.5-1/40 THEN R ELSE N/A
C126	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.5-1/19 AND A.4.4-3a/111) THEN R ELSE N/A
C127	Void
C128	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.5-1/19) THEN R ELSE N/A
C129	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.5-1/19) THEN R ELSE N/A
C130	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND A.4.4-1a/25) THEN R ELSE N/A
C131	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND A.4.4-1a/25) THEN R ELSE N/A
C132	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.4-1b/25) THEN R ELSE N/A
C133	IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND A.4.4-1a/25) THEN R ELSE N/A
C134	IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.4-1a/5 THEN R ELSE N/A
C135	IF A.4.1-1/1 AND (A.4.2-1/8 AND A.4.5-1/27) AND A.4.4-1a/5 THEN R ELSE N/A
C136	IF A.4.1-1/2 AND A.4.2-1/8 AND A.4.4-1b/5 THEN R ELSE N/A
C137	IF A.4.1-1/1 AND A.4.2-1/8 AND (A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C138	IF A.4.1-1/1 AND (A.4.2-1/8 AND A.4.5-1/27) AND (A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C139	IF A.4.1-1/2 AND A.4.2-1/8 AND (A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C140	IF (A.4.1-1/1 AND A.4.5-1/40) THEN R ELSE N/A
C141	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/15) THEN R ELSE N/A
C142	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/1 AND A.4.5-1/14) THEN R ELSE N/A
C143	IF (A.4.1-1/2 AND A.4.5-1/41) THEN R ELSE N/A
C144 C145	IF (A.4.1-1/1 AND A.4.5-1/32 AND A.4.4-1a/25) THEN R ELSE N/A IF (A.4.1-1/1 AND A.4.5-1/32 AND A.4.4-3a/111 AND A.4.6-1/1) THEN R ELSE N/A
C145	IF (A.4.1-1/1 AND A.4.5-1/32 AND A.4.5-1/32 AND A.4.4-1a/111 AND (NOT A.4.6.1-1/1)) THEN R ELSE
	N/À
C146	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.4-3a/111 AND A.4.6-1/1) THEN R ELSE N/A
C146a	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.4-3a/111 AND (NOT A.4.6-1/1)) THEN R ELSE N/A
C147	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.4-3 a/111) THEN R ELSE N/A
C148	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.4-3 a/111) THEN R ELSE N/A
C149	IF (A.4.1-1/1 AND A.4.5-1/32) THEN R ELSE N/A
C150	IF (A.4.1-1/1 AND A.4.5-1/57 AND A.4.5-1/32 AND A.4.5-1/61) THEN R ELSE N/A
C151	IF (A.4.1-1/2 AND A.4.5-1/57 AND A.4.5-1/32 AND A.4.5-1/61) THEN R ELSE N/A
C152	IF (A.4.1-1/2 AND A.4.5-1/32) THEN R ELSE N/A
C153 C153a	IF (A.4.1-1/1 AND A.4.5-1/32 AND A.4.5-1/19 AND A.4.4-3a/111 AND A.4.6-1/1) THEN R ELSE N/A
C153a	IF (A.4.1-1/1 AND A.4.5-1/32 AND A.4.5-1/19 AND A.4.4-3a/111 AND (NOT A.4.6-1/1)) THEN R ELSE N/A IF (A.4.1-1/8 AND A.4.3-4c/1) THEN R ELSE N/A
C154	
C155	IF (A.4.1-1/8 AND A.4.3-4c/1 AND A.4.4-1a/5) THEN R ELSE N/A IF A.4.1-1/1 AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.3-1/11 OR A.4.6.2-1/4 OR A.4.6.2-
0100	1/5) AND A.4.4-3a/111 THEN R ELSE N/A
C157	IF (A.4.1-1/1 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.5-1/33) THEN R ELSE N/A
C158	IF (A.4.1-1/2 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.5-1/33) THEN R ELSE N/A
C159	IF (A.4.1-1/2 AND A.4.5-1/32 AND A.4.4-1a/25) THEN R ELSE N/A
C160	IF (A.4.1-1/2 AND A.4.5-1/32 AND A.4.4-3a/111 AND A.4.6-1/1) THEN R ELSE N/A
C160a	IF (A.4.1-1/2 AND A.4.5-1/32 AND A.4.4-1a/111 AND (NOT A.4.6.1-1/1)) THEN R ELSE N/A

C161	IF A.4.1-1/2 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/12 OR A.4.6.3-1/11 OR A.4.6.2-
	1/4 OR A.4.6.2-1/5) AND A.4.4-3a/111 THEN R ELSE N/A
C162	IF (A.4.1-1/8 AND A.4.3-4c/1 AND A.4.5-1/34) THEN R ELSE N/A
C163	IF (A.4.1-1/1 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.4-3a/111) THEN R ELSE N/A
C164	IF (A.4.1-1/1 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND A.4.4-3a/111) THEN R ELSE N/A
C165	IF (A.4.1-1/2 AND (A.4.6.1-1/3 OR A.4.6.3-1/3 OR A.4.6.3-1/4) AND A.4.4-3b/111) THEN R ELSE N/A
C166	IF (A.4.1-1/2 AND (A.4.6.3-1/2 OR A.4.6.2-1/2) AND A.4.4-3b/111) THEN R ELSE N/A
C167	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/15 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN
	R ELSE N/A
C168	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/2 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN
	R ELSE N/A
C169	IF (A.4.1-1/1 AND A.4.1-1/2) AND (A.4.6.2-1/6 OR A.4.6.3-1/13 OR A.4.6.2-1/8 OR A.4.6.3-1/15 OR A.4.6.3-
	1/16 OR A.4.6.3-1/17) AND A.4.4-3a/111 THEN R ELSE N/A
C170	IF (A.4.1-1/1 AND A.4.1-1/2) AND (A.4.6.3-1/14) AND A.4.4-3a/111 THEN R ELSE N/A
C171	IF A.4.1-1/1 AND (A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.6.2-1/6 OR
	A.4.6.2-1/7 OR A.4.6.2-1/8) AND A.4.4-3a/111 THEN R ELSE N/A
C172	IF A.4.1-1/1 AND (A.4.6.3-1/14) AND A.4.4-3a/111 THEN R ELSE N/A
C173	IF A.4.1-1/2 AND (A.4.6.3-1/13 OR A.4.6.3-1/15 OR A.4.6.3-1/16 OR A.4.6.3-1/17 OR A.4.6.2-1/6 OR
	A.4.6.2-1/7 OR A.4.6.2-1/8) AND A.4.4-3a/111 THEN R ELSE N/A
C174	IF A.4.1-1/2 AND (A.4.6.3-1/14 OR A.4.6.1-1/5) AND A.4.4-3a/111 THEN R ELSE N/A
C175	IF A.4.1-1/1 AND A.4.2-1/8 AND A.4.4-1a/5 THEN R ELSE N/A
C176	IF A.4.1-1/1 AND A.4.2-1/8 THEN R ELSE N/A
C177	IF A.4.1-1/1 AND (A.4.2-1/8 AND A.4.5-1/27) THEN R ELSE N/A
C178	IF A.4.1-1/2 AND A.4.2-1/8 THEN R ELSE N/A
C179	IF (A.4.1-1/1 AND A.4.1-1/9) AND (A.4.2-1/9 OR A.4.2-1/10) THEN R ELSE N/A
C180	IF (A.4.1-1/2 AND A.4.1-1/9) AND (A.4.2-1/9 OR A.4.2-1/10) THEN R ELSE N/A
C181	IF (A.4.1-1/1 AND A.4.4-1a/5 AND A.4.5-1/40) THEN R ELSE N/A
C182	IF (A.4.1-1/2 AND A.4.4-1a/5 AND A.4.5-1/41) THEN R ELSE N/A
C183	Void
C184	Void
C185	IF (A.4.1-1/1 AND A.4.2-1/8 AND A.4.5-1/40) THEN R ELSE N/A
C186	IF (A.4.1-1/1 AND A.4.5-1/27 AND A.4.5-1/40) THEN R ELSE N/A
C187	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN
	R ÈLSE N/A
C188	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14 AND (A.4.4-3a/111 AND A.4.4-3b/111)) THEN
	R ELSE N/A
C189	IF (A.4.1-1/2 AND A.4.6-1/3 AND A.4.4-3b/111) THEN R ELSE N/A
C190	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/15 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R
	ELSE N/A
C190a	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/15 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R
	ELSE N/A
C191	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/3 AND A.4.5-1/14 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R
	ELSE N/A
C191a	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.6-1/4 AND A.4.5-1/14 AND (A.4.4-1a/25 AND A.4.4-1b/25)) THEN R
	ELSE N/A
C192	IF (A.4.1-1/2 AND (A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/9 OR A.4.6.3-1/10 OR A.4.6.3-1/11 OR A.4.6.3-
	1/12 OR A.4.6.2-1/4 OR A.4.6.2-1/5) AND A.4.4-1b/25) THEN R ELSE N/A
C193	IF (A.4.1-1/2 AND (A.4.6.1-1/4 OR A.4.6.3-1/6 OR A.4.6.3-1/7 OR A.4.6.3-1/9 OR A.4.6.3-1/10 OR A.4.6.3-
<u></u>	1/11 OR A.4.6.3-1/12 OR A.4.6.2-1/4 OR A.4.6.2-1/5) AND A.4.4-1b/25) THEN R ELSE N/A
C194	IF (A.4.1-1/1 AND A.4.3-4a/1a) THEN R ELSE N/A
C194a	IF (A.4.1-1/1 AND A.4.3-4a/1a AND A.4.4-1a/5) THEN R ELSE N/A
C194b	IF (A.4.1-1/1 AND A.4.3-4a/1a AND A.4.4-1a/25) THEN R ELSE N/A
C194c	IF (A.4.1-1/1 AND A.4.3-4a/1a AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C195	IF (A.4.1-1/22 AND A.4.3-4a/a) THEN R ELSE N/A
C195a	IF (A.4.1-1/2 AND A.4.3-4a/1a AND A.4.4-1b/5) THEN R ELSE N/A
C195b	IF (A.4.1-1/2 AND A.4.3-4a/1a AND A.4.4-1b/25) THEN R ELSE N/A
C195c	IF (A.4.1-1/2 AND A.4.3-4a/1a AND A.4.4-1b/5 AND A.4.4-1b/25) THEN R ELSE N/A
C196	IF (A.4.1-1/1 AND A.4.3-7/5) THEN R ELSE N/A
C197	IF (A.4.1-1/2 AND A.4.3-7/5) THEN R ELSE N/A
C198	IF (A.4.1-1/1 AND 4.4-1a/5 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.4-3a/111 AND A.4.6-1/1) THEN R
	ELSE N/A
C199	IF (A.4.1-1/2 AND 4.4-1a/5 AND A.4.5-1/19 AND A.4.5-1/32 AND A.4.4-3a/111 AND A.4.6-1/1) THEN R
	ELSE N/A
C200	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.2-1/8 AND A.4.5-1/59) THEN R ELSE N/A
C201	IF (A.4.1-1/2 AND A.4.2-1/8 AND A.4.5-1/59) THEN R ELSE N/A
C202	IF (A.4.1-1/8 AND A.4.3-4c/1 AND A.4.5-1/60) THEN R ELSE N/A

C203	
	IF (A.4.1-1/10 AND A.4.3-4d/2 AND A.4.5-7/1) THEN R ELSE N/A
C204	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/10 AND A.4.3-4d/2 AND A.4.5-7/1) THEN R ELSE N/A
C205	IF (A.4.1-1/1 AND A.4.4-1a/5 AND A.4.5-1/64) THEN R ELSE N/A
C206	IF (A.4.1-1/1 AND A.4.2-1/2 AND A.4.4-1a/25 AND A.4.5-1/65) THEN R ELSE N/A
C207	IF (A.4.1-1/2 AND A.4.2-1/2 AND A.4.4-1b/25 AND A.4.5-1/65) THEN R ELSE N/A
C208	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.2-1/2 AND A.4.5-1/15 AND A.4.4-1b/25 AND A.4.5-1/65) THEN R
	ELŜE N/A
C209	IF ((A.4.1-1/1 AND A.4.1-1/2) AND A.4.2-1/2 AND A.4.5-1/14 AND A.4.4-1b/25 AND A.4.5-1/65) THEN R
	ELSE N/A
C210	IF (A.4.1-1/1 AND A.4.3-4a/1a AND A.4.4-1a/5) THEN R ELSE N/A
C211	IF (A.4.1-1/2 AND A.4.3-4a/1a AND A.4.4-1a/5) THEN R ELSE N/A
C212	IF (A.4.1-1/1 AND A.4.3-4a/1a AND A.4.4-1a/25) THEN R ELSE N/A
C213	IF (A.4.1-1/2 AND A.4.3-4a/1a AND A.4.4-1a/25) THEN R ELSE N/A
C214	IF (A.4.1-1/1 AND A.4.3-4a/1a AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C215	IF (A.4.1-1/2 AND A.4.3-4a/1a AND A.4.4-1a/5 AND A.4.4-1a/25) THEN R ELSE N/A
C216	IF ((A.4.1-1/1 OR A.4.1-1/2) AND A.4.1-1/10 AND A.4.5-1/49) THEN R ELSE N/A
C217	IF (A.4.1-1/10 AND A.4.3-4d/2 AND A.4.5-7/1 AND A.4.5-1/68) THEN R ELSE N/A

Table 4.2-1b: Number of TC Executions - Notes

Note 1:	The Carrier Aggregation TCs verify the same core requirement(s) however with different channel bandwidth configurations, this according to the guidance in TS 36.521-3, Annex C.3.3 [2].
Note 2:	The Dual Connectivity TCs verify the same RRM requirements(s) however with different synchronous or
	asynchronous DC scenarios, this according to the guidance in TS 36.521-3, Annex 3A.5 [2].
Note 3:	Unique FS3 Event triggered reporting tests are defined for one or more FS3 cells. Therefore, only the test case
	specific to the number of FS3 cells needs to be executed.

Annex A (normative):ICS proforma for E-UTRA User Equipment

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

A.1 Guidance for completing the ICS proforma

A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in relevant specifications may provide information about the implementation in a standardised manner.

The ICS proforma is subdivided into clauses for the following categories of information:

- instructions for completing the ICS proforma;
- identification of the implementation;
- identification of the protocol;
- ICS proforma tables (for example: UE implementation types, Teleservices, etc).

A.1.2 Abbreviations and conventions

The ICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column gives reference to the relevant 3GPP core specifications.

Release column

The release column indicates the earliest release from which the capability or option is relevant.

Comments column

This column is left blank for particular use by the reader of the present document.

References to items

For each possible item answer (answer in the support column) within the ICS proforma there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.4.1-1/2 is the reference to the answer of item 2 in table A.4.1-1.

E-mail address:

A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation may complete the ICS proforma in each of the spaces provided. More detailed instructions are given at the beginning of the different clauses of the ICS proforma.

A.2 Identification of the User Equipment

Identification of the User Equipment should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS should be named as the contact person.

A.2.1	Date of the statement
A.2.2 UEUT name	User Equipment Under Test (UEUT) identification
Hardware co	onfiguration:
Software co	nfiguration:
A.2.3 Name:	Product supplier
Address:	
Telephone n	umber:
Facsimile nu	ımber:

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A.3 Identification of the protocol

This ICS proforma applies to the 3GPP standards listed in the normative references clause of the present document.

A.4 ICS proforma tables

A.4.1 UE Implementation Types

Table A.4.1-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	E-UTRA FDD	36.101	Rel-8	
2	E-UTRA TDD	36.101	Rel-8	
3	UTRA FDD	25.101	R99	
4	UTRA TDD	25.102	R99	
5	GSM	45.005	R99	
6	cdma2000 HRPD	C.S0024-A	Rel-8	
7	cdma2000 1xRTT	C.S0002-A	Rel-8	
8	NB-IoT	36.101	Rel-13	
9	WLAN	IEEE Std		
		802.11		
10	V2X Sidelink Communication	36.101	Rel-14	

A.4.2 UE Service Capabilities

Table A.4.2-1: UE Radio Technologies

Item	UE Radio Technologies	Ref.	Release	Comments
1	LTE MBMS	36.101	Rel-9	
2	LTE CA	36.101	Rel-10	
3	UL-MIMO	36.306, 4.3.4.6	Rel-10	
4	Void			
5	Enhanced Dual Layer TDD	36.306, 4.3.4.5	Rel-9	
6	EPDCCH	36.306, 4.3.4.18	Rel-11	
7	FDD - TDD CA	36.306, 4.3.4.28	Rel-12	
8	Support of DC	36.306, 4.3.5.9	Rel-12	The UE supports of synchronous dual connectivity and power control mode 1
9	Support of E-UTRAN WLAN Aggregation - LWA	36.306, 4.3.18, 4.3.25, 4.3.27, 7.10.2	Rel-13	
10	Support of E-URAN WLAN Aggregation with IPsec Tunnel - LWIP	36.306, 4.3.18, 4.3.24, 4.3.27, 7.10.2	Rel-13	

A.4.3 Baseline Implementation Capabilities

Table A.4.3-1: Supported protocols

Item	Supported protocols	Ref.	Release	Comments
1	EPS Mobility Management	24.301, 5	Rel-8	For NB-IoT the release is from Rel-
2	EPS Session Management	24.301, 6	Rel-8	For NB-IoT the release is from Rel-
3	GPRS Mobility Management	23.060	R99	For NB-IoT the release is from Rel-
4	Radio Resource Control	36.331	Rel-8	For NB-IoT the release is from Rel-
5	Packet Data Convergence Protocol	36.323	Rel-8	For NB-IoT the release is from Rel-
6	Radio Link Control	36.322	Rel-8	For NB-IoT the release is from Rel-
7	Medium Access Control	36.321	Rel-8	For NB-IoT the release is from Rel-
8	Physical Layer	36.201 36.302	Rel-8	For NB-IoT the release is from Rel-

Table A.4.3-2: Special Conformance Testing Functions

Ite	Special Conformance Testing Functions	Ref.	Release	Comments
1	UE test loop	36.509	Rel-8	For NB-IoT the release is from Rel- 13
2	Max UE test loop UL RLC SDU size 65535 bits	36.509	Rel-8	

Table A.4.3-3: RF Baseline Implementation Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Release	Comments
	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD
		·		Band 1
	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 3
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	Rel-8	FDD Band 4
	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD
		·		Band 5
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	Rel-8	FDD Band 6
	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	Rel-8	FDD Band 7
8	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 8
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.5	Rel-8	FDD Band 9
10	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5	Rel-8	FDD Band 10
11	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 11
12	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 12
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 13
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	Rel-8	FDD Band 14
	Reserved	36.101, 5.5	Rel-8	FDD Band 15
_	Reserved	36.101, 5.5	Rel-8	FDD Band 16
	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	Rel-8	FDD and HD-FDD Band 17
18	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	Rel-9	FDD and HD-FDD Band 18
19	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	Rel-9	FDD and HD-FDD Band 19
20	Frequency band: 832-862, 791-821MHz	36.101, 5.5	Rel-9	FDD and HD-FDD Band 20
21	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	Rel-9	FDD and HD-FDD Band 21Band 21
	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	Rel-10	FDD Band 22
23	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	Rel-10	FDD Band 23
	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	Rel-10	FDD Band 24
25	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	Rel-10	FDD and HD-FDD Band 25
26	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	Rel-11	FDD and HD-FDD Band 26
27	Frequency band: 807-824, 852-869 MHz	36.101, 5.5	Rel-11	FDD Band 27
28	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	Rel-11	FDD and HD-FDD Band 28
29	Frequency band: N/A, 717-728 MHz	36.101, 5. 5	Rel-11	FDD Band 29
30	Frequency band: 2305-2315, 2350-2360 MHz (Note 2)	36.101, 5.5	Rel-12	FDD Band 30
31	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	Rel-12	FDD and HD-FDD Band 31
32	Frequency band: N/A, 1452-1496 MHz	36.101, 5.5	Rel-12	FDD Band 32
	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	Rel-8	TDD Band 33
	Frequency band: 2010-2025, 2010-2025 MHz	36.101, 5.5	Rel-8	TDD Band 34
	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	Rel-8	TDD Band 35
	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	Rel-8	TDD Band 36
	Frequency band: 1910-1930, 1910-1930 MHz	36.101, 5.5	Rel-8	TDD Band 37
	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	Rel-8	TDD Band 38
39	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	Rel-8	TDD Band 39
	Frequency band: 2300-2400, 2300-2400 MHz	36.101, 5.5	Rel-8	TDD Band 40
	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	Rel-10	TDD Band 41
	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	Rel-10	TDD Band 42
	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	Rel-10	TDD Band 43
	Frequency band: 703-803, 703-803 MHz	36.101, 5.5	Rel-11	TDD Band 44
	Frequency band: 1447-1467, 1447-1467 MHz	36.101, 5.5	Rel-13	TDD Band 45
	Frequency band: 5150-5925, 5250-5925 MHz	36.101, 5.5	Rel-13	TDD Band 46
47	Frequency band: 5855-5925, 5855-5925 MHz	36.101, 5.5	Rel-14	TDD Band 47

48	Frequency band: 3550-3700, 3550-3700 MHz	36.101, 5.5	Rel-14	TDD Band 48
65	Frequency band: 1920-2010, 2110-2200 MHz	36.101, 5.5	Rel-13	FDD Band 65
66	Frequency band: 1710-1780, 2110-2200 MHz	36.101, 5.5	Rel-13	FDD and HD-FDD Band 66
68	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	Rel-15	FDD Band 68
69	Frequency band: N/A, 2570-2620 MHz	36.101, 5.5	Rel-14	FDD Band 69
70	Frequency band: 1695-1710, 1995-2020 MHz	36.101, 5.5	Rel-14	FDD and HD-FDD Band 70
71	Frequency band: 663-698, 617-652 MHz	36.101, 5.5	Rel-15	FDD and HD-FDD Band 71
72	Frequency band: 451-456, 461-466 MHz	36.101, 5.5	Rel-15	FDD and HD-FDD Band 72
74	Frequency band: 1427-1470, 1475-1518 MHz	36.101, 5.5	Rel-15	FDD and HD-FDD Band 74

Note 1: The values indicated in column "Release" are to be understood as the specifications release version in which a band was introduced and not as a mandate that a UE conforming to particular release shall support a particular band. For further guidance to release independent bands see TS 36.307 [16]

Note 2: The uplink transmission is not allowed at this band for the UE with the externally vehicle-mounted

antennas.

Table A.4.3-3a: RF Additional Baseline Implementation Capabilities

Item	RF Additional Baseline Implementation Capabilities	Ref.	Comments					
1	Support of 1.4 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 1.4 MHz Bandwidth: 2, 3, 4, 5, 8, 12, 23, 25, 26, 27, 31, 35, 36, 65, 66, 72, 74					
2	Support of 3 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 3 MHz Bandwidth: 2, 3, 4, 5, 8, 12, 23, 25, 26, 27, 28, 31, 35, 36, 44, 65, 66, 72, 74					
3	Support of 5 MHz channel bandwidth	36.101, 5.6.1	All operating bands support 5 MHz Bandwidth except band 46 and Band 47					
4	Support of 10 MHz channel bandwidth	36.101, 5.6.1	All operating bands support 10 MHz Bandwidth except band 31, 46 and 72					
5	Support of 15 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 15 MHz Bandwidth: 1, 2, 3, 4, 7, 9, 10, 18, 19, 20, 21, 22, 23, 25, 26, 28, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 48, 65, 66, 70, 74					
6	Support of 20 MHz channel bandwidth	36.101, 5.6.1	Operating bands supporting 20MHz Bandwidth: 1, 2, 3, 4, 7, 9, 10, 20, 22, 23, 25, 28, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 65, 66, 70 ¹ , 74					
7	Support of 20 MHz for both PCell and SCell	36.101, 5.6.1						
8	Support of 20 MHz for PCell and 10 MHz for SCell	36.101, 5.6.1						
9	Support at most 40 MHz aggregated bandwidth	36.101, 5.6.1						
10	Support at most 60 MHz aggregated bandwidth	36.101, 5.6.1						
11	Support at most 80 MHz aggregated bandwidth	36.101, 5.6.1						
Note	Note 1: ¹ For the 20 MHz channel bandwidth, the additional baseline implementation capabilities							

Note 1: ¹ For the 20 MHz channel bandwidth, the additional baseline implementation capabilities are restricted to E-UTRA operation when carrier aggregation is configured.

Table A.4.3-3b: Additional UE Power Class implementation Capabilities

Item	RF baseline UE Baseline implementation capability	Ref.	Comments
1	UE Power Class 1	36.101,	Applicable to Band 14
		6.2.2	
2	UE Power Class 3	36.101,	All applicable E-UTRA
		6.2.2	and NB-IoT bands
3	UE Power Class 5	36.101,	All applicable E-UTRA
		6.2.2E	and NB-IoT bands
		36.306,	20dBm
		4.3.5.20	
4	UE Power Class 2	36.101,	Applicable to Band 41
		6.2.2	and Band 47

Table A.4.3-4: UE Category

Item	UE Category	Ref.	Release	Comments
1	Category 1	36.306, 4.1	Rel-8	
2	Category 2	36.306, 4.1	Rel-8	
3	Category 3	36.306, 4.1	Rel-8	
4	Category 4	36.306, 4.1	Rel-8	
5	Category 5	36.306, 4.1	Rel-8	Support for 64QAM in UL
6	Category 6	36.306, 4.1	Rel-10	
7	Category 7	36.306, 4.1	Rel-10	
8	Category 8	36.306, 4.1	Rel-10	Support for 64QAM in UL
9	Category 9	36.306, 4.1	Rel-11	
10	Category 10	36.306, 4.1	Rel-11	
11	Category 11	36.306, 4.1	Rel-11	
12	Category 12	36.306, 4.1	Rel-11	

Table A.4.3-4a: UE Downlink Category

Item	UE Category	Ref.	Release	Comments
1	Category DL 0	36.306, 4.1A	Rel-12	Only in combination with Category UL 0
1a	Category DL 1bis	36.306, 4.1A	Rel-13	Only in combination with Category UL 1bis
2	Category DL 6	36.306, 4.1A	Rel-12	Only in combination with Category UL 5
3	Category DL 7	36.306, 4.1A	Rel-12	Only in combination with Category UL 13
4	Category DL 9	36.306, 4.1A	Rel-12	Only in combination with Category UL 5
5	Category DL 10	36.306, 4.1A	Rel-12	Only in combination with Category UL 13
6	Category DL 11	36.306, 4.1A	Rel-12	Only in combination with Category UL 5
7	Category DL 12	36.306, 4.1A	Rel-12	Only in combination with Category UL 13
8	Category DL 13	36.306, 4.1A	Rel-12	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13
9	Category DL 14	36.306, 4.1A	Rel-12	Only in combination with Category UL 8
10	Category DL 15	36.306, 4.1A	Rel-12	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13
11	Category DL 16	36.306, 4.1A	Rel-12	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13
12	Category DL 17	36.306, 4.1A	Rel-13	Only in combination with Category UL 14
13	Category DL 18	36.306, 4.1A	Rel-13	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 or Category UL 15
14	Category DL 19	36.306, 4.1A	Rel-13	Only in combination with Category UL 3 or Category UL 5 or Category UL 7 or Category UL 13 or Category UL 15

Table A.4.3-4aa: Additional UE Downlink Category

Item	UE Category	Ref.	Release	Comments	
1	Category DL M1	36.306, 4.1A		Only in combination with Category UL M1	
2	Category DL M2 (NOTE 1)	36.306, 4.1A		Only in combination with Category UL M2	
NOTE 1: A UE indicating Category M2 shall also indicate Category M1.					

Table A.4.3-4b: UE Uplink Category

Item	UE Category	Ref.	Release	Comments
1	Category UL 0	36.306, 4.1A	Rel-12	Only in combination with Category DL 0
1a	Category UL 1bis	36.306, 4.1A	Rel-13	Only in combination with Category DL 1bis
2	Category UL 3	36.306, 4.1A	Rel-12	Only in combination with Category DL 13, Category DL 15 or Category DL 16
3	Category UL 5	36.306, 4.1A	Rel-12	Only in combination with Category DL 6, Category DL 9, Category DL 11, Category DL 13, Category DL 15 or Category DL 16
4	Category UL 7	36.306, 4.1A	Rel-12	Only in combination with Category DL 13, Category DL 15 or Category DL 16
5	Category UL 8	36.306, 4.1A	Rel-12	Only in combination with Category DL 14
6	Category UL 13	36.306, 4.1A	Rel-12	Only in combination with Category DL 7, Category DL 10, Category DL 12, Category DL 13, Category DL 15 or Category DL 16
9	Category UL 16	36.306, 4.1A	Rel-14	Only in combination with Category DL 9, Category DL 11, Category DL 13, Category DL 15, Category DL 16. Category DL 18, Category DL 19, Category DL 20
10	Category UL 17	36.306, 4.1A	Rel-14	Only in combination with Category DL 14
11	Category UL 18	36.306, 4.1A	Rel-14	Only in combination with Category DL 7, Category DL 10, Category DL 13, Category DL 15, Category DL 16. Category DL 18, Category DL 19, Category DL 20
12	Category UL 19	36.306, 4.1A	Rel-14	Only in combination with Category DL 17
13	Category UL 20	36.306, 4.1A	Rel-14	Only in combination with Category DL 12, Category DL 16, Category DL 18, Category DL 19, Category DL 20

Table A.4.3-4ba: Additional UE Uplink Category

Item	UE Category	Ref.	Release	Comments			
1	Category UL M1	36.306, 4.1A	Rel-12	Only in combination			
				with Category DL			
				M1			
2	Category UL M2 (NOTE 1)	36.306, 4.1A	Rel-14	Only in combination			
				with Category DL			
				M2			
NOTE	NOTE 1: A UE indicating Category M2 shall also indicate Category M1.						

Table A.4.3-4c: UE Category NB

Item	UE Category	Ref.	Release	Comments
1	Category NB1	36.306, 4.1C	Rel-13	
2	Category NB2	36.306, 4.1C	Rel-14	

Table A.4.3-4d: UE Category Sidelink

Item	UE Category	Ref.	Release	Comments
1	SL-C Category 1	36.306, 4.1B	Rel-14	
2	SL-C Category 2	36.306, 4.1B	Rel-14	

Table A.4.3-5: Void

Table A.4.3-6: Void

Table A.4.3-7: Additional capabilities

Item	Additional capabilities	Ref.	Release	Comments
1	Enhanced performance requirements type A for	36.101, 8	Rel-11	Support for Enhanced
	LTE			performance requirements
				type A
2	Support of Type B Half-duplex FDD operation	36.211, 6,2,5	Rel-12	Support of Half-duplex
		36.306, 4.2.6		FDD operation type B for
				category 0 and category
		00.101.0	5 1 10	M1 and category M2 UE
3	Enhanced performance requirements type C for	36.101, 8	Rel-12	Support for Enhanced
	LTE			performance requirements
-	Falsanda artema and an arte to a D.f.	00.404.0	D-1.40	type C
4	Enhanced performance requirements type B for LTE	36.101, 8	Rel-12	Support for Enhanced
	L	36.306, 4.3.4.35		performance requirements
5	Enhanced measurement in high speed scenario		Rel-14	type B
3	Emianced measurement in high speed scenario	36.306,4.3.3 3.1	Kei-14	Support measurement enhancements in high
		3.1		speed scenario
6	Enhanced downlink control channel performance	36.101, 8	Rel-13	Support for Enhanced
	requirements type A for LTE	00.101, 0	1101 10	downlink control channel
				performance requirements
				type A for LTE
7	Enhanced downlink control channel performance	36.101, 8	Rel-13	Support for Enhanced
	requirements type B for LTE	,		downlink control channel
				performance requirements
				type B for LTE
8	DMRS enhancements for TM9	36.306,	Rel-13	Support for DMRS
		4.3.28.4		enhancements in TM9

Table A.4.3-8: Void

A.4.4 Feature group indicators

In Table A.4.4-1a and Table A.4.4-1b, a 'VoLTE capable UE' corresponds to a UE that is capable of the "Voice domain preference for E-UTRAN" defined in TS 24.301 [15] being set to "IMS PS voice only", "IMS PS voice preferred, CS voice as secondary" or "CS voice preferred, IMS PS voice as secondary" (Ref TS 36.331 [14], clause B.1)

When a UE supports E-UTRA FDD only, it's required to indicate combined FGI capabilities in Table A.4.4-1a, Table A.4.4-2a and Table A.4.4-3a; when a UE supports E-UTRA TDD only, it's required to indicate combined FGI capabilities in Table A.4.4-1b, Table A.4.4-2b and Table A.4.4-3b; when a UE supports E-UTRA FDD/TDD dual mode with same FGI capabilities on FDD and TDD, it's required to indicate both FGI capabilities in Table A.4.4-1a, Table A.4.4-2a, Table A.4.4-3a, Table A.4.4-1b, Table A.4.4-2b and Table A.4.4-3b and make sure those FDD and TDD tables are identical.

Note 1: From Rel-11 onwards 3GPP TSG RAN has discontinued the usage of FGI bits. Instead it has introduced a different mechanism to accomplish the same purposes based on the principles described in TS 36.306 [17] clause 4. This new principles where applicable have been catered for in section A.4.5, e.g. Table A.4.5-2.

Table A.4.4-1:Void

Table A.4.4-1a: Feature group indicators 1-32 for FDD

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - Intra-subframe frequency hopping for PUSCH scheduled by UL grant - DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments) - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PMI - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 - UE selected subband CQI with multiple PMI	- set to 1 by category M1 UE that has implemented and successfully tested "Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PM"			36.331, Annex B.1	pc_FeatrGrp_1_F	Corresponding to the Index of Indicator, the leftmost binary bit 1. Set to true if supporting all functionalities in the feature group.
	Support of - Simultaneous CQI and ACK/NACK on PUCCH, i.e. PUCCH format 2a and 2b - Absolute TPC command for PUSCH - Resource allocation type 1 for PDSCH - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 - UE selected subband CQI without PMI - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 - UE selected subband CQI with single PMI	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_2_F	Corresponding to the Index of Indicator, the leftmost binary bit 2. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
3	Support of - Semi-persistent scheduling - TTI bundling - 5bit RLC UM SN - 7bit PDCP SN	- can only be set to 1 if the UE has set bit number 7 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_3_F	Corresponding to the Index of Indicator, the leftmost binary bit 3. Set to true if supporting all functionalities in the feature group.
	- 7bit PDCP SN	- can only be set to 1 if the		Rel-9, Rel-			
		UE has set bit number 7 to 1.		Rel-11			
4	Support of - Short DRX cycle	- can only be set to 1 if the UE has set bit number 5 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_4_F	Corresponding to the Index of Indicator, the leftmost binary bit 4. Set to true if supporting all functionalities in the feature group.
5	Support of - Long DRX cycle - DRX command MAC control element			Rel-8	36.331, Annex B.1	pc_FeatrGrp_5_F	Corresponding to the Index of Indicator, the leftmost binary bit 5.
			Yes	Rel-9			Set to true if supporting all functionalities in the feature group.
6	Support of - Prioritized bit rate	Rel-8 36.331, Annex B.1 pc_FeatrGrp_6_F	pc_FeatrGrp_6_F	Corresponding to the Index of Indicator, the leftmost binary bit 6.			
			Yes	Rel-9			Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
7	Support of - RLC UM	- can only be set to 0 if the UE does not support voice	Yes, if UE supports VoLTE Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-9 Rel-11	36.331, Annex B.1	pc_FeatrGrp_7_F	Corresponding to the Index of Indicator, the leftmost binary bit 7. Set to true if supporting all functionalities in the feature group.
8	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH PS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- can only be set to 1 if the UE has set bit number 22 to 1	Yes (except for category M1 UE), if UE supports UTRA FDD	Rel-8	36.331, Annex B.1	pc_FeatrGrp_8_F	Corresponding to the Index of Indicator, the leftmost binary bit 8. Set to true if supporting all functionalities in the feature group.
9	Support of - EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	- related to SR-VCC - can only be set to 1 if the UE has set bit number 23 to 1	Yes (except for category M1 UE), if UE supports SRVCC to EUTRAN from GERAN.	Rel-8, Rel- 9, Rel-10 Rel-11	36.331, Annex B.1	pc_FeatrGrp_9_F	Corresponding to the Index of Indicator, the leftmost binary bit 9. Set to true if supporting all functionalities in the feature group.
10	Support of - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order with NACC (Network Assisted Cell Change)			Rel-8	36.331, Annex B.1	pc_FeatrGrp_10_F	Corresponding to the Index of Indicator, the leftmost binary bit 10. Set to true if supporting all functionalities in the feature group.
11	Support of - EUTRA RRC_CONNECTED to CDMA2000 1xRTT CS Active handover	- can only be set to 1 if the UE has sets bit number 24 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_11_F	Corresponding to the Index of Indicator, the leftmost binary bit 11. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
12	Support of - EUTRA RRC_CONNECTED to CDMA2000 HRPD Active handover	- can only be set to 1 if the UE has set bit number 26 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_12_F	Corresponding to the Index of Indicator, the leftmost binary bit 12. Set to true if supporting all functionalities in the feature group.
13	Support of - Inter-frequency handover (within FDD or TDD)	- can only be set to 1 if the UE has set bit number 25 to		Rel-8	36.331, Annex B.1	pc_FeatrGrp_13_F	Corresponding to the Index of Indicator, the leftmost binary bit 13. Set to true if supporting
		1	Yes (except for category M1 UE), unless UE only supports band 13	Rel-9			all functionalities in the feature group.
14	Support of Measurement reporting event: Event A4 - Neighbour > threshold			Rel-8	36.331, Annex B.1	pc_FeatrGrp_14_F	Corresponding to the Index of Indicator, the
	 Measurement reporting event: Event A4 - Neighbour > threshold Measurement reporting event: Event A5 - Serving < threshold1 & Neighbour > threshold2 		Yes (except for category M1 UE)	Rel-9			leftmost binary bit 14. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
15	Support of - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 - Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively - Measurement reporting event: Event B1 - Neighbour > threshold for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set at least one of the bit number 22, 23, 24, 26 or 39 to 1 even if the UE sets bits 41, it shall still set bit 15 to 1 if measurement reporting event B1 is tested for all RATs supported by UE - If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_15_F	Corresponding to the Index of Indicator, the leftmost binary bit 15. Set to true if supporting all functionalities in the feature group.
16		If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_16_F	Corresponding to the Index of Indicator, the Ieftmost binary bit 16. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully	Release	Ref.	Mnemonic	Comments
			tested for the corresponding release				
	Support of Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells; Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells, if the UE has set bit number 25 to 1; and Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively. NOTE: Event triggered periodical reporting (i.e. with triggerType set to event and with reportAmount > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit. Support of Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells, if the UE has set bit number 25 to 1 Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively. NOTE: Event triggered periodical reporting (i.e., with triggerType set to event and with reportAmounts 1) is a mandatory functionality of event triggered reporting with reportIngered reporting		Yes	Rel-9			
	with reportAmount > 1) is a mandatory functionality of event triggered reporting and therefore not the subject of this bit.						

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding	Release	Ref.	Mnemonic	Comments
17	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes	Rel-8	36.331, Annex B.1	pc_FeatrGrp_17_F	Corresponding to the Index of Indicator, the leftmost binary bit 17. Set to true if supporting all functionalities in the feature group.
18	Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes, unless UE only supports band 13	Rel-8	36.331, Annex B.1	pc_FeatrGrp_18_F	Corresponding to the Index of Indicator, the leftmost binary bit 18. Set to true if supporting all functionalities in the feature group.
19	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_19_F	Corresponding to the Index of Indicator, the leftmost binary bit 19. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON for 1xRTT or HRPD, if the UE has set bit number 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for UTRAN FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRANTDD and has set bit number 22 to 1 - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for UTRAN FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for UTRAN TDD and has set bit number 22 or 39 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for GERAN, 1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 39, 23, 24 or 26 to 1 even if the UE sets bits 33 to 37, it shall still set bit 19 to 1 if inter-RAT ANR features are tested for all RATs for which inter-RAT measurement reporting is indicated as tested		Rel-9			
20	If bit number 7 is set to '0': - SRB1 and SRB2 for DCCH + 8x AM DRB If bit number 7 is set to '1': - SRB1 and SRB2 for DCCH + 8x AM DRB - SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB NOTE: UE which indicate support for a DRB combination also support all subsets of the DRB combination. Therefore, release of DRB(s) never results in an unsupported DRB combination.			Rel-8	36.331, Annex B.1	pc_FeatrGrp_20_F	Corresponding to the Index of Indicator, the leftmost binary bit 20. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
		- Regardless of what bit number 7 and bit number 20 is set to, UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB - Regardless of what bit number 20 is set to, if bit number 7 is set to ' 1', UE shall support at least SRB1 and SRB2 for DCCH + 4x AM DRB + 1x UM DRB	Yes	Rel-9			
21	1	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_21_F	Corresponding to the Index of Indicator, the leftmost binary bit 21. Set to true if supporting all functionalities in the feature group.
22	UTRA connected mode Support of LITRAN FDD or LITRAN TDD measurements, reporting and measurement	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD, if UE supports UTRA FDD	Rel-8	36.331, Annex B.1	pc_FeatrGrp_22_F	Corresponding to the Index of Indicator, the leftmost binary bit 22. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_23_F	Corresponding to the Index of Indicator, the leftmost binary bit 23. Set to true if supporting all functionalities in the feature group.
	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes, if UE supports enhanced 1xRTT CSFB	Rel-8	36.331, Annex B.1	pc_FeatrGrp_24_F	Corresponding to the Index of Indicator, the leftmost binary bit 24. Set to true if supporting all functionalities in the feature group.
	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode NOTE: The UE setting this bit to 1 and indicating support for FDD and TDD frequency bands in the UE capability signalling implements and is tested for FDD measurements while the UE is in TDD, and for TDD measurements while the UE is in FDD.	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes, unless UE only supports band 13	Rel-8	36.331, Annex B.1	pc_FeatrGrp_25_F	Corresponding to the Index of Indicator, the leftmost binary bit 25. Set to true if supporting all functionalities in the feature group.
	Support of - HRPD measurements, reporting and measurement reporting event B2 in E- UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes, if UE supports HRPD	Rel-8	36.331, Annex B.1	pc_FeatrGrp_26_F	Corresponding to the Index of Indicator, the leftmost binary bit 26. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
27	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH CS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- related to SR-VCC - can only be set to 1 if the UE has set bit number 8 to 1 and supports SR-VCC from EUTRA defined in TS 24.008 - If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD, if UE supports VoLTE and UTRA FDD	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_27_F	Corresponding to the Index of Indicator, the leftmost binary bit 27. Set to true if supporting all functionalities in the feature group.
28	Support of - TTI bundling	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD	Rel-9	36.331, Annex B.1	pc_FeatrGrp_28_F	Corresponding to the Index of Indicator, the leftmost binary bit 28. Set to true if supporting all functionalities in the feature group.
29	Support of - Semi-Persistent Scheduling	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_29_F	Corresponding to the Index of Indicator, the leftmost binary bit 29. Set to true if supporting all functionalities in the feature group.
30	Support of - Handover between FDD and TDD	- can only be set to 1 if the UE has set bit number 13 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_30_F	Corresponding to the Index of Indicator, the leftmost binary bit 30. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the	Release	Ref.	Mnemonic	Comments
			feature shall be				
			implemented				
			and				
			successfully				
			tested for the				
			corresponding				
			release				
31		- In this release of the protocol, this bit will never be mandated to be set to 1 - This FGI bit concerns an optional release independent feature (as it was difficult to introduce this from REL-8 when using regular UE capability signalling)		Rel-8 Rel-9 Rel-10	36.331, Annex B.1	pc_FeatrGrp_31_F	Corresponding to the Index of Indicator, the leftmost binary bit 31. Set to true if supporting all functionalities in the feature group.
32	Undefined				36.331, Annex B.1		Corresponding to the
-					55.55.,		Index of Indicator, the
							leftmost binary bit 32.

Table A.4.4-1b: Feature group indicators 1-32 for TDD

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
1	Support of - Intra-subframe frequency hopping for PUSCH scheduled by UL grant - DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments) - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PMI - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 - UE selected subband CQI with multiple PMI	- set to 1 by category M1 UE that has implemented and successfully tested "Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PM"		Rel-8	36.331, Annex B.1	pc_FeatrGrp_1_T	Corresponding to the Index of Indicator, the leftmost binary bit 1. Set to true if supporting all functionalities in the feature group.
2	Support of - Simultaneous CQI and ACK/NACK on PUCCH, i.e. PUCCH format 2a and 2b - Absolute TPC command for PUSCH - Resource allocation type 1 for PDSCH - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 - UE selected subband CQI without PMI - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 - UE selected subband CQI with single PMI	shall be set to		Rel-8	36.331, Annex B.1	pc_FeatrGrp_2_T	Corresponding to the Index of Indicator, the leftmost binary bit 2. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release		Ref.	Mnemonic	Comments
3	Support of - Semi-persistent scheduling - TTI bundling - 5bit RLC UM SN - 7bit PDCP SN	- can only be set to 1 if the UE has set bit number 7 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_3_T	Corresponding to the Index of Indicator, the leftmost binary bit 3. Set to true if supporting all functionalities in the
	Support of - 5bit RLC UM SN	- can only be set to 1 if the	Yes, if UE supports VoLTE	Rel-9, Rel- 10			feature group.
	bit PDCP SN UE	UE has set bit number 7 to 1.	Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
4	Support of - Short DRX cycle	- can only be set to 1 if the UE has set bit number 5 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_4_T	Corresponding to the Index of Indicator, the leftmost binary bit 4. Set to true if supporting all functionalities in the feature group.
5	Support of - Long DRX cycle - DRX command MAC control element			Rel-8	36.331, Annex B.1	pc_FeatrGrp_5_T	Corresponding to the Index of Indicator, the leftmost binary bit 5.
			Yes	Rel-9			Set to true if supporting all functionalities in the feature group.
6	Support of - Prioritized bit rate			Rel-8	36.331, Annex B.1	pc_FeatrGrp_6_T	Corresponding to the Index of Indicator, the leftmost binary bit 6.
			Yes	Rel-9			Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release		Ref.	Mnemonic	Comments
7	Support of - RLC UM	- can only be set to 0 if the UE does not		Rel-8	36.331, Annex B.1	pc_FeatrGrp_7_T	Corresponding to the Index of Indicator, the leftmost binary bit 7. Set to true if supporting all functionalities in the feature group.
		support voice	Yes, if UE supports VoLTE	Rel-9			
			Yes, if UE supports VoLTE. Yes, if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
8	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH PS handover	- can only be set to 1 if the UE has set bit		Rel-8	36.331, Annex B.1	pc_FeatrGrp_8_T	Corresponding to the Index of Indicator, the leftmost binary bit 8. Set to true if supporting all functionalities in the feature group.
	Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH PS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD	number 22 to 1	Yes, if UE supports UTRA	Rel-9			
9	Support of	- related to			36.331, Annex B.1	pc_FeatrGrp_9_T	Corresponding to the Index of Indicator, the leftmost binary bit 9. Set to true if supporting all functionalities in the feature group.
	- EUTRA RRC_CONNECTED to GERAN GSM_Dedicated handover	SR-VCC - can only be		9, Rel-10			
		1	Yes (except for category M1 UE), if UE supports SRVCC to EUTRAN from GERAN.	Rel-11			
10	Support of - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order - EUTRA RRC_CONNECTED to GERAN (Packet_)Idle by Cell Change Order with NACC (Network Assisted Cell Change)			Rel-8	36.331, Annex B.1	pc_FeatrGrp_10_T	Corresponding to the Index of Indicator, the leftmost binary bit 10. Set to true if supporting all functionalities in the feature group.
11	Support of - EUTRA RRC_CONNECTED to CDMA2000 1xRTT CS Active handover	- can only be set to 1 if the UE has sets bit number 24 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_11_T	Corresponding to the Index of Indicator, the leftmost binary bit 11. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
12	Support of - EUTRA RRC_CONNECTED to CDMA2000 HRPD Active handover	- can only be set to 1 if the UE has set bit number 26 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_12_T	Corresponding to the Index of Indicator, the leftmost binary bit 12. Set to true if supporting all functionalities in the feature group.
13		- can only be set to 1 if the UE has set bit number 25 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_13_T	Corresponding to the Index of Indicator, the leftmost binary bit 13. Set to true if supporting all functionalities in the feature group.
			Yes (except for category M1 UE), unless UE only supports band 13	Rel-9			
14	Support of - Measurement reporting event: Event A4 - Neighbour > threshold		V /avaant fan	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_14_T	Corresponding to the Index of Indicator, the
	- Measurement reporting event: Event A5 - Serving < threshold1 & Neighbour > threshold2		Yes (except for category M1 UE)	Kei-9			leftmost binary bit 14. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall	Release	Ref.	Mnemonic	Comments
			be implemented				
			and successfully				
			tested for the				
			corresponding				
15	Support of	- can only be	release	Rel-8	36.331, Annex B.1	pc_FeatrGrp_15_T	Corresponding to the
15	- Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN	set to 1 if the		Kel-o	30.331, Alliex B.1	pc_realiGip_15_1	Index of Indicator, the
	FDD or UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN	UE has set at					leftmost binary bit 15.
	TDD and has set bit number 22 to 1	least one of	V (EDD VIIE	D 10			Set to true if supporting
		the bit number	Yes for FDD, if UE supports only	Rel-9			all functionalities in the
	- Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN	22, 23, 24, 26	UTRAN FDD and				feature group.
	FDD or UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39 to 1, respectively	or 39 to 1 even if the	does not support				
	Thas set bit flumber 22 or 35 to 1, respectively	UE sets bits	UTRAN TDD or				
	- Measurement reporting event: Event B1 - Neighbour > threshold for GERAN,	41. it shall still	GERAN or 1xRTT				
	1xRTT or HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively	set bit 15 to 1	or HRPD				
		if					
		measurement					
		reporting event B1 is					
		tested for all					
		RATs					
		supported by					
		UE					
		- If a category					
		M1 UE does not support					
		this feature					
		group, this bit					
		shall be set to					
		0.					
16		- If a category		Rel-8	36.331, Annex B.1	pc_FeatrGrp_16_T	Corresponding to the
		M1 UE does					Index of Indicator, the
		not support this feature					leftmost binary bit 16. Set to true if supporting
		group, this bit					all functionalities in the
		shall be set to					feature group.
		0.					

Item	Additional information	Notes	If indicated "Yes"	Release	Ref.	Mnemonic	Comments
			the feature shall				
			be implemented				
			and successfully				
			tested for the				
			corresponding				
			release				
	Support of		Yes	Rel-9			
	- Intra-frequency periodical measurement reporting where triggerType is set to						
	periodical and purpose is set to reportStrongestCells;						
	- Inter-frequency periodical measurement reporting where triggerType is set to						
	periodical and purpose is set to reportStrongestCells, if the UE has set bit number						
	25 to 1; and						
	- Inter-RAT periodical measurement reporting where triggerType is set to						
	periodical and purpose is set to reportStrongestCells for UTRAN, GERAN, 1xRTT						
	or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively.			1			
	NOTE: Event triggered periodical reporting (i.e. with triggerType set to event and						
	with reportAmount > 1) is a mandatory functionality of event triggered reporting						
	and therefore not the subject of this bit.						
	Support of						
	- Intra-frequency periodical measurement reporting where triggerType is set to						
	periodical and purpose is set to reportStrongestCells						
	- Inter-frequency periodical measurement reporting where <i>triggerType</i> is set to						
	periodical and purpose is set to reportStrongestCells, if the UE has set bit number						
	25 to 1						
	later DAT a significal assessment and ordinary whose defendant was in set to						
	- Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to						
	periodical and purpose is set to reportStrongestCells for UTRAN FDD or UTRAN						
	TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD and has set						
	bit number 22 to 1						
	- Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to						
	periodical and purpose is set to reportStrongestCells for UTRAN FDD or UTRAN						
	TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set bit						
	number 22 or 39 to 1, respectively						
	- Inter-RAT periodical measurement reporting where <i>triggerType</i> is set to						
	periodical and purpose is set to reportStrongestCells for GERAN, 1xRTT or			1			
	HRPD, if the UE has set bit number 23, 24 or 26 to 1, respectively.			1			
	That D, if the OL has set bit humber 25, 24 or 20 to 1, respectively.						
	NOTE: Event triggered periodical reporting (i.e., with triggerType set to event and						
	with reportAmount > 1) is a mandatory functionality of event triggered reporting						
	and therefore not the subject of this bit.			ĺ			

Item	Additional information		If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
17	Support of Intra-frequency ANR features including: - Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Intra-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to	Yes	Rel-8	36.331, Annex B.1	pc_FeatrGrp_17_T	Corresponding to the Index of Indicator, the leftmost binary bit 17. Set to true if supporting all functionalities in the feature group.
18	Support of Inter-frequency ANR features including: - Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Inter-frequency periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 to 1. - If a category M1 UE does not support this feature group, this bit shall be set to	Yes, unless UE only supports band 13	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_18_T	Corresponding to the Index of Indicator, the leftmost binary bit 18. Set to true if supporting all functionalities in the feature group.
19	Support of Inter-RAT ANR features including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells for GERAN, if the UE has set bit number 23 to 1 - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON for UTRAN, 1xRTT or HRPD, if the UE has set bit number 22, 24 or 26 to 1, respectively - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI for UTRAN, GERAN, 1xRTT or HRPD, if the UE has set bit number 22, 23, 24 or 26 to 1, respectively	- can only be set to 1 if the UE has set bit number 5 to 1 and the UE has set at least one of the bit number 22, 23, 24 or 26 to 1.		Rel-8	36.331, Annex B.1	pc_FeatrGrp_19_T	Corresponding to the Index of Indicator, the leftmost binary bit 19. Set to true if supporting all functionalities in the feature group.

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Item	Additional information	Notes	If indicated "Yes"	Release	Ref.	Mnemonic	Comments
			the feature shall				
			be implemented				
			and successfully				
			tested for the				
			corresponding				
			release				
	Support of	- can only be		Rel-9			
	Inter-RAT ANR features including:	set to 1 if the					
	 Inter-RAT periodical measurement reporting where triggerType is set to 	UE has set bit					
	periodical and purpose is set to reportStrongestCells for GERAN, if the UE has	number 5 to 1					
	set bit number 23 to 1	and the UE					
	 Inter-RAT periodical measurement reporting where triggerType is set to 	has set at					
	periodical and purpose is set to reportStrongestCellsForSON for UTRAN FDD or	least one of					
	UTRAN TDD, if the UE supports either only UTRAN FDD or only UTRAN TDD	the bit number					
	and has set bit number 22 to 1	22, 39, 23, 24					
	 Inter-RAT periodical measurement reporting where triggerType is set to 	or 26 to 1.					
	periodical and purpose is set to reportStrongestCellsForSON for UTRAN FDD or	 even if the 					
	UTRAN TDD, if the UE supports both UTRAN FDD and UTRAN TDD and has set	UE sets bits					
	bit number 22 or 39 to 1, respectively	33 to 37, it					
	- Inter-RAT periodical measurement reporting where triggerType is set to	shall still set					
	periodical and purpose is set to reportStrongestCellsForSON for 1xRTT or HRPD,	bit 19 to 1 if					
	if the UE has set bit number 24 or 26 to 1, respectively	inter-RAT					
	 Inter-RAT periodical measurement reporting where triggerType is set to 	ANR features					
	periodical and purpose is set to reportCGI for UTRAN FDD or UTRAN TDD, if the	are tested for					
	UE supports either only UTRAN FDD or only UTRANTDD and has set bit number	all RATs for					
	22 to 1	which inter-					
	 Inter-RAT periodical measurement reporting where triggerType is set to 	RAT					
	periodical and purpose is set to reportCGI for UTRAN FDD or UTRAN TDD, if the	measurement					
	UE supports both UTRAN FDD and UTRAN TDD and has set bit number 22 or 39	reporting is					
	to 1, respectively	indicated as					
	 Inter-RAT periodical measurement reporting where triggerType is set to 	tested					
	periodical and purpose is set to reportCGI for GERAN, 1xRTT or HRPD, if the UE						
	has set bit number 23, 24 or 26 to 1, respectively						
	If bit number 7 is set to '0':			Rel-8	36.331, Annex B.1	pc_FeatrGrp_20_T	Corresponding to the
	- SRB1 and SRB2 for DCCH + 8x AM DRB				, -		Index of Indicator, the
							leftmost binary bit 20.
	If bit number 7 is set to '1':						Set to true if supporting
	- SRB1 and SRB2 for DCCH + 8x AM DRB						all functionalities in the
	- SRB1 and SRB2 for DCCH + 5x AM DRB + 3x UM DRB						feature group.
	NOTE: UE which indicate support for a DRB combination also support all subsets						
	of the DRB combination. Therefore, release of DRB(s) never results in an						
	unsupported DRB combination.						
	andapportod 5105 combination.						

Item	Additional information	Notes	If indicated "Yes"	Release	Ref.	Mnemonic	Comments
			the feature shall				
			be implemented and successfully				
			tested for the				
			corresponding				
			release				
		- Regardless	Yes	Rel-9			
		of what bit number 7 and					
		bit number 20					
		is set to, UE					
		shall support					
		at least SRB1					
		and SRB2 for					
		DCCH + 4x					
		AM DRB - Regardless					
		of what bit					
		number 20 is					
		set to, if bit					
		number 7 is					
		set to '1', UE					
		shall support at least SRB1					
		and SRB2 for					
		DCCH + 4x					
		AM DRB + 1x					
		UM DRB					
21	Support of	- If a category		Rel-8	36.331, Annex B.1	pc_FeatrGrp_21_T	Corresponding to the
	- Predefined intra- and inter-subframe frequency hopping for PUSCH with N_sb >	M1 UE does					Index of Indicator, the
		not support this feature					leftmost binary bit 21. Set to true if supporting
	- Predefined inter-subframe frequency hopping for PUSCH with N_sb > 1	group, this bit					all functionalities in the
	Treadmod inter substante frequency hopping for 1 00011 with 11_00 > 1	shall be set to					feature group.
		0					3
22	Support of	- If a category		Rel-8	36.331, Annex B.1	pc_FeatrGrp_22_T	Corresponding to the
	- UTRAN measurements, reporting and measurement reporting event B2 in E-	M1 UE does					Index of Indicator, the
	UTRA connected mode	not support this feature					leftmost binary bit 22. Set to true if supporting
	Support of	group, this bit	Yes for FDD, if UE	Rel-9			all functionalities in the
	- UTRAN FDD or UTRAN TDD measurements, reporting and measurement	shall be set to	supports UTRA				feature group.
	reporting event B2 in E-UTRA connected mode, if the UE supports either only UTRAN FDD or only UTRAN TDD	0	טטאן				3
	OTRAIN FUD OF OHRAIN TUD						
	- UTRAN FDD measurements, reporting and measurement reporting event B2 in						
	E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD						

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - GERAN measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support this feature group, this bit shall be set to		Rel-8	36.331, Annex B.1	pc_FeatrGrp_23_T	Corresponding to the Index of Indicator, the leftmost binary bit 23. Set to true if supporting all functionalities in the feature group.
	Support of - 1xRTT measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support		Rel-8	36.331, Annex B.1	pc_FeatrGrp_24_T	Corresponding to the Index of Indicator, the leftmost binary bit 24.
		this feature group, this bit shall be set to 0	Yes, if UE supports enhanced 1xRTT CSFB	Rel-9			Set to true if supporting all functionalities in the feature group.
	Support of - Inter-frequency measurements and reporting in E-UTRA connected mode	- If a category M1 UE does not support		Rel-8	36.331, Annex B.1	pc_FeatrGrp_25_T	Corresponding to the Index of Indicator, the leftmost binary bit 25.
	NOTE: The UE setting this bit to 1 and indicating support for FDD and TDD frequency bands in the UE capability signalling implements and is tested for FDD measurements while the UE is in TDD, and for TDD measurements while the UE is in FDD.	this feature group, this bit shall be set to 0	Yes, unless UE only supports band 13	Rel-9			Set to true if supporting all functionalities in the feature group.
	Support of - HRPD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode	- If a category M1 UE does not support		Rel-8	36.331, Annex B.1	pc_FeatrGrp_26_T	Corresponding to the Index of Indicator, the leftmost binary bit 26.
		this feature group, this bit shall be set to 0	Yes, if UE supports HRPD	Rel-9			Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
27	Support of - EUTRA RRC_CONNECTED to UTRA CELL_DCH CS handover Support of - EUTRA RRC_CONNECTED to UTRA FDD or UTRA TDD CELL_DCH CS handover, if the UE supports either only UTRAN FDD or only UTRAN TDD - EUTRA RRC_CONNECTED to UTRA FDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- related to SR-VCC - can only be set to 1 if the UE has set bit number 8 to 1 and supports SR-VCC from EUTRA defined in TS 24.008 - If a category M1 UE does not support this feature group, this bit shall be set to 0	Yes for FDD, if UE supports VoLTE and UTRA FDD	Rel-8 Rel-9	36.331, Annex B.1	pc_FeatrGrp_27_T	Corresponding to the Index of Indicator, the leftmost binary bit 27. Set to true if supporting all functionalities in the feature group.
28	Support of - TTI bundling	- If a category M1 UE does not support this feature group, this bit shall be set to 0	Yes for FDD	Rel-9	36.331, Annex B.1	pc_FeatrGrp_28_T	Corresponding to the Index of Indicator, the leftmost binary bit 28. Set to true if supporting all functionalities in the feature group.
29	Support of - Semi-Persistent Scheduling	If a category M1 UE does not support this feature group, this bit shall be set to		Rel-9	36.331, Annex B.1	pc_FeatrGrp_29_T	Corresponding to the Index of Indicator, the leftmost binary bit 29. Set to true if supporting all functionalities in the feature group.
30	Support of - Handover between FDD and TDD	- can only be set to 1 if the UE has set bit number 13 to 1		Rel-8	36.331, Annex B.1	pc_FeatrGrp_30_T	Corresponding to the Index of Indicator, the leftmost binary bit 30. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
	Support of - Indicates whether the UE supports the mechanisms defined for cells broadcasting multi band information i.e. comprehending multiBandInfoList, disregarding in RRC_CONNECTED the related system information fields and understanding the EARFCN signalling for all bands, that overlap with the bands supported by the UE, and that are defined in the earliest version of TS 36.101 [42] that includes all UE supported bands.	- In this release of the protocol, this bit will never be mandated to be set to 1 - This FGI bit concerns an optional release independent feature (as it was difficult to introduce this from REL-8 when using regular UE capability signalling)	Yes	Rel-8 Rel-9 Rel-10	36.331, Annex B.1	pc_FeatrGrp_31_T	Corresponding to the Index of Indicator, the Ieftmost binary bit 31. Set to true if supporting all functionalities in the feature group.
32	Undefined			Rel-8	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 32.

Table A.4.4-2: Void

Table A.4.4-2a: Feature group indicators 33-64 for FDD

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
33	Inter-RAT ANR features for UTRAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	bit number 5 and bit		Rel-9	36.331, Annex B.1	pc_FeatrGrp_33_F	Corresponding to the Index of Indicator, the leftmost binary bit 33. Set to true if supporting all functionalities in the feature group.
34	Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	bit number 5 and bit		Rel-9	36.331, Annex B.1	pc_FeatrGrp_34_F	Corresponding to the Index of Indicator, the leftmost binary bit 34. Set to true if supporting all functionalities in the feature group.
35	Inter-RAT ANR features for 1xRTT including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	bit number 5 and bit		Rel-9	36.331, Annex B.1	pc_FeatrGrp_35_F	Corresponding to the Index of Indicator, the leftmost binary bit 35. Set to true if supporting all functionalities in the feature group.
36	Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	bit number 5 and bit		Rel-9	36.331, Annex B.1	pc_FeatrGrp_36_F	Corresponding to the Index of Indicator, the leftmost binary bit 36. Set to true if supporting all functionalities in the feature group.
37	Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	bit number 5 and at		Rel-9	36.331, Annex B.1	pc_FeatrGrp_37_F	Corresponding to the Index of Indicator, the leftmost binary bit 37. Set to true if supporting all functionalities in the feature group.
38	-EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- can only be set to 1 if the UE has set bit number 39 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_38_F	Corresponding to the Index of Indicator, the leftmost binary bit 38. Set to true if supporting all functionalities in the feature group.
39	-UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_39_F	Corresponding to the Index of Indicator, the leftmost binary bit 39. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the	Release	Ref.	Mnemonic	Comments
			feature shall be implemented and successfully tested for the corresponding release				
40	-EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- related to SR-VCC - can only be set to 1 if the UE has set bit number 38 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_40_F	Corresponding to the Index of Indicator, the leftmost binary bit 40. Set to true if supporting all functionalities in the feature group.
41	Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD, if the UE supports UTRAN FDD and has set bit number 22 to 1	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD, unless UE has set bit number 15 to 1	Rel-9	36.331, Annex B.1	pc_FeatrGrp_41_F	Corresponding to the Index of Indicator, the leftmost binary bit 41. Set to true if supporting all functionalities in the feature group.
42	DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments)			Rel-13	36.331, Annex B.1	pc_FeatrGrp_42_F	Corresponding to the Index of Indicator, the leftmost binary bit 42.
43	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 43.
44	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 44.
45	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 45.
46	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 46.
47	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 47.
48	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 48.
49	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 49.
50	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 50.
51	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 51.
52	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 52.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
53	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 53.
54	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 54.
55	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 55.
56	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 56.
57	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 57.
58	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 58.
59	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 59.
60	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 60.
61	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 61.
62	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 62.
63	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 63.
64	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 64.

Table A.4.4-2b: Feature group indicators 33-64 for TDD

Item	Additional information	Notes	If indicated "Yes" the	Release	Ref.	Mnemonic	Comments
			feature shall be implemented and successfully tested for the corresponding release				
33	Inter-RAT ANR features for UTRAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 22 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_33_T	Corresponding to the Index of Indicator, the leftmost binary bit 33. Set to true if supporting all functionalities in the feature group.
34	Inter-RAT ANR features for GERAN including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCells - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	bit number 5 and bit number 23 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_34_T	Corresponding to the Index of Indicator, the leftmost binary bit 34. Set to true if supporting all functionalities in the feature group.
35	Inter-RAT ANR features for 1xRTT including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	bit number 5 and bit number 24 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_35_T	Corresponding to the Index of Indicator, the leftmost binary bit 35. Set to true if supporting all functionalities in the feature group.
36	Inter-RAT ANR features for HRPD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and bit number 26 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_36_T	Corresponding to the Index of Indicator, the leftmost binary bit 36. Set to true if supporting all functionalities in the feature group.
37	Inter-RAT ANR features for UTRAN TDD including: - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportStrongestCellsForSON - Inter-RAT periodical measurement reporting where triggerType is set to periodical and purpose is set to reportCGI	- can only be set to 1 if the UE has set bit number 5 and at least one of the bit number 22 (for UEs supporting only UTRA TDD) or the bit number 39 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_37_T	Corresponding to the Index of Indicator, the leftmost binary bit 37. Set to true if supporting all functionalities in the feature group.
38	-EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH PS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- can only be set to 1 if the UE has set bit number 39 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_38_T	Corresponding to the Index of Indicator, the leftmost binary bit 38. Set to true if supporting all functionalities in the feature group.
39	-UTRAN TDD measurements, reporting and measurement reporting event B2 in E-UTRA connected mode, if the UE supports both UTRAN FDD and UTRAN TDD	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_39_T	Corresponding to the Index of Indicator, the leftmost binary bit 39. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release		Ref.	Mnemonic	Comments
40	-EUTRA RRC_CONNECTED to UTRA TDD CELL_DCH CS handover, if the UE supports both UTRAN FDD and UTRAN TDD	- related to SR-VCC - can only be set to 1 if the UE has set bit number 38 to 1.		Rel-9	36.331, Annex B.1	pc_FeatrGrp_40_T	Corresponding to the Index of Indicator, the leftmost binary bit 40. Set to true if supporting all functionalities in the feature group.
41	Measurement reporting event: Event B1 - Neighbour > threshold for UTRAN FDD, if the UE supports UTRAN FDD and has set bit number 22 to 1	- If a category M1 UE does not support this feature group, this bit shall be set to 0.	Yes for FDD, unless UE has set bit number 15 to 1	Rel-9	36.331, Annex B.1	pc_FeatrGrp_41_T	Corresponding to the Index of Indicator, the leftmost binary bit 41. Set to true if supporting all functionalities in the feature group.
42	DCI format 3a (TPC commands for PUCCH and PUSCH with single bit power adjustments)			Rel-13	36.331, Annex B.1	pc_FeatrGrp_42_T	Corresponding to the Index of Indicator, the leftmost binary bit 42.
43	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 43.
44	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 44.
45	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 45.
46	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 46.
47	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 47.
48	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 48.
49	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 49.
50	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 50.
51	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 51.
52	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 52.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
53	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 53.
54	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 54.
55	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 55.
56	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 56.
57	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 57.
58	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 58.
59	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 59.
60	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 60.
61	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 61.
62	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 62.
63	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 63.
64	Undefined			Rel-9	36.331, Annex B.1		Corresponding to the Index of Indicator, the leftmost binary bit 64.

Table A.4.4-3: Void

Table A.4.4-3a: Feature group indicators 101-132 for FDD

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding	Release	Ref.	Mnemonic	Comments
			release				
101	- DMRS with OCC (orthogonal cover code) and SGH (sequence group hopping) disabling	- if the UE supports two or more layers for spatial multiplexing in UL, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_101_F	Corresponding to the Index of Indicator, the leftmost binary bit 101. Set to true if supporting all
		- If a category 0 UE does not support this feature, this bit shall be set to 0.		Rel-12			functionalities in the feature group.
102	- Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports) NOTE: X = number of supported layers on given band			Rel-10	36.331, Annex C.1	pc_FeatrGrp_102_F	Corresponding to the Index of Indicator, the leftmost binary bit 102. Set to true if supporting all functionalities in the feature group.
103	- PDSCH transmission mode 9 when up to 4 CSI reference signal ports are configured	- for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_103_F	Corresponding to the Index of Indicator, the leftmost binary bit 103. Set to true if supporting all functionalities in the feature group.
104	- PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured	- if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. - for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_104_F	Corresponding to the Index of Indicator, the leftmost binary bit 104. Set to true if supporting all functionalities in the feature group.
105	- Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 - UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 - UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_105_F	Corresponding to the Index of Indicator, the leftmost binary bit 105. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if index 2 is set to 1 for both FDD and TDD, and index 103 is set to 1 either for FDD and TDD.		Rel-12			

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested	Release	Ref.	Mnemonic	Comments
			for the corresponding release				
106	- Periodic CQI/PMI/RI/PTI reporting on PUCCH: Mode 2-1 - UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to ' supported') and if index 2 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_106_F	Corresponding to the Index of Indicator, the leftmost binary bit 106. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to' supported', and if index 2 is set to 1 for both FDD and TDD.		Rel-12			
107	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 - UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_107_F	Corresponding to the Index of Indicator, the leftmost binary bit 107. Set to true if supporting all functionalities in the feature group.
108	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 - UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to' supported') and if index 1 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_108_F	Corresponding to the Index of Indicator, the leftmost binary bit 108. Set to true if supporting all functionalities in the feature group.
109	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to' supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_109_F	Corresponding to the Index of Indicator, the leftmost binary bit 109. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
		- For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to 'supported'.		Rel-12			
110	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to 'supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_110_F	Corresponding to the Index of Indicator, the leftmost binary bit 110. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to 'supported'.		Rel-12			
111	- Measurement reporting trigger Event A6	- this bit can be set to 1 only if the UE supports carrier aggregation.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_111_F	Corresponding to the Index of Indicator, the leftmost binary bit 111. Set to true if supporting all functionalities in the feature group.
112	- SCell addition within3 the Handover to EUTRA procedure	this bit can be set to 1 only if the UE supports carrier aggregation and the Handover to EUTRA procedure.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_112_F	Corresponding to the Index of Indicator, the leftmost binary bit 112. Set to true if supporting all functionalities in the feature group.
113	- Trigger type 0 SRS (periodic SRS) transmission on X Serving Cells NOTE: X = number of supported component carriers in a given band combination	- this bit can be set to 1 only if the UE supports carrier aggregation in UL.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_113_F	Corresponding to the Index of Indicator, the leftmost binary bit 113. Set to true if supporting all functionalities in the feature group.
114	- Reporting of both UTRA CPICH RSCP and Ec/N0 in a Measurement Report	- this bit can be set to 1 only if index 22 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_114_F	Corresponding to the Index of Indicator, the leftmost binary bit 114. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the	Release	Ref.	Mnemonic	Comments
			feature shall be implemented and successfully tested for the corresponding release				
115	- time domain ICIC RLM/RRM measurement subframe restriction for the serving cell - time domain ICIC RRM measurement subframe restriction for neighbour cells - time domain ICIC CSI measurement subframe restriction	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-10		pc_FeatrGrp_115_F	Corresponding to the Index of Indicator, the leftmost binary bit 115. Set to true if supporting all functionalities in the feature group.
116	- Relative transmit phase continuity for spatial multiplexing in UL	- this bit can be set to 1 only if the UE supports two or more layers for spatial multiplexing in UL.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_116_F	Corresponding to the Index of Indicator, the leftmost binary bit 116. Set to true if supporting all functionalities in the feature group.
117	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 117.
118	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 118.
119	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 119.
120	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 120.
121	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 121.
122	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 122.
123	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 123.
124	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 124.
125	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 125.
126	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 126.
127	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 127.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
128	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 128.
129	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 129.
130	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 130.
131	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 131.
132	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 132.

Table A.4.4-3b: Feature group indicators 101-132 for TDD

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
101	- DMRS with OCC (orthogonal cover code) and SGH (sequence group hopping) disabling	- if the UE supports two or more layers for spatial multiplexing in UL, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_101_T	Corresponding to the Index of Indicator, the leftmost binary bit 101. Set to true if supporting all functionalities in the feature
		- If a category 0 UE does not support this feature, this bit shall be set to 0.		Kel-12			group.
102	- Trigger type 1 SRS (aperiodic SRS) transmission (Up to X ports) NOTE: X = number of supported layers on given band			Rel-10	36.331, Annex C.1	pc_FeatrGrp_102_T	Corresponding to the Index of Indicator, the leftmost binary bit 102. Set to true if supporting all functionalities in the feature group.
103	- PDSCH transmission mode 9 when up to 4 CSI reference signal ports are configured	- for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_103_T	Corresponding to the Index of Indicator, the leftmost binary bit 103. Set to true if supporting all functionalities in the feature group.
104	- PDSCH transmission mode 9 for TDD when 8 CSI reference signal ports are configured	- if the UE does not support TDD, this bit is irrelevant (capability signalling exists for FDD for this feature), and this bit shall be set to 0. - for Category 8 UEs, this bit shall be set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_104_T	Corresponding to the Index of Indicator, the leftmost binary bit 104. Set to true if supporting all functionalities in the feature group.
105	- Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-0 - UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Periodic CQI/PMI/RI reporting on PUCCH: Mode 2-1 - UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 2 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_105_T	Corresponding to the Index of Indicator, the leftmost binary bit 105. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if index 2 is set to 1 for both FDD and TDD, and index 103 is set to 1 either for FDD and TDD.		Rel-12			

Item	Additional information	Notes	If indicated "Yes" the feature shall be	Release	Ref.	Mnemonic	Comments
			implemented and successfully tested for the				
			corresponding				
			release				
106	- Periodic CQI/PMI/RI/PTI reporting on PUCCH: Mode 2-1 - UE selected subband CQI with single PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9-With-8Tx-FDD-r10 is set to' supported') and if index 2 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_106_T	Corresponding to the Index of Indicator, the leftmost binary bit 106. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to 'supported', and if index 2 is set to 1 for both FDD and TDD.		Rel-12			
107	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-0 - UE selected subband CQI without PMI, when PDSCH transmission mode 9 is configured - Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 - UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and up to 4 CSI reference signal ports are configured	- this bit can be set to 1 only if indices 1 (Table B.1-1) and 103 are set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_107_T	Corresponding to the Index of Indicator, the leftmost binary bit 107. Set to true if supporting all functionalities in the feature group.
108	- Aperiodic CQI/PMI/RI reporting on PUSCH: Mode 2-2 - UE selected subband CQI with multiple PMI, when PDSCH transmission mode 9 and 8 CSI reference signal ports are configured	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to ' supported') and if index 1 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_108_T	Corresponding to the Index of Indicator, the leftmost binary bit 108. Set to true if supporting all functionalities in the feature group.
109	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 1	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to' supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_109_T	Corresponding to the Index of Indicator, the leftmost binary bit 109. Set to true if supporting all functionalities in the feature group.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
		- For UEs capable of TDD-FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to 'supported'.	release	Rel-12			
110	- Periodic CQI/PMI/RI reporting on PUCCH Mode 1-1, submode 2	- this bit can be set to 1 only if the UE supports PDSCH transmission mode 9 with 8 CSI reference signal ports (i.e., for TDD, if index 104 is set to 1, and for FDD, if tm9- With-8Tx-FDD-r10 is set to' supported').		Rel-10	36.331, Annex C.1	pc_FeatrGrp_110_T	Corresponding to the Index of Indicator, the leftmost binary bit 110. Set to true if supporting all functionalities in the feature group.
		- For UEs capable of TDD- FDD CA, this bit can be set to 1 for both FDD and TDD if either index 104 is set to 1 or tm9-With-8Tx-FDD-r10 is set to' supported'.		Rel-12			
111	- Measurement reporting trigger Event A6	- this bit can be set to 1 only if the UE supports carrier aggregation.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_111_T	Corresponding to the Index of Indicator, the leftmost binary bit 111. Set to true if supporting all functionalities in the feature group.
112	- SCell addition within the Handover to EUTRA procedure	- this bit can be set to 1 only if the UE supports carrier aggregation and the Handover to EUTRA procedure.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_112_T	Corresponding to the Index of Indicator, the leftmost binary bit 112. Set to true if supporting all functionalities in the feature group.
113	- Trigger type 0 SRS (periodic SRS) transmission on X Serving Cells NOTE: X = number of supported component carriers in a given band combination	- this bit can be set to 1 only if the UE supports carrier aggregation in UL.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_113_T	Corresponding to the Index of Indicator, the leftmost binary bit 113. Set to true if supporting all functionalities in the feature group.
114	- Reporting of both UTRA CPICH RSCP and Ec/N0 in a Measurement Report	- this bit can be set to 1 only if index 22 (Table B.1-1) is set to 1.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_114_T	Corresponding to the Index of Indicator, the leftmost binary bit 114. Set to true if supporting all functionalities in the feature group.

Item	Additional information		If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release		Ref.	Mnemonic	Comments
115	- time domain ICIC RLM/RRM measurement subframe restriction for the serving cell - time domain ICIC RRM measurement subframe restriction for neighbour cells - time domain ICIC CSI measurement subframe restriction	- If a category M1 UE does not support this feature group, this bit shall be set to 0.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_115_T	Corresponding to the Index of Indicator, the leftmost binary bit 115. Set to true if supporting all functionalities in the feature group.
116	- Relative transmit phase continuity for spatial multiplexing in UL	- this bit can be set to 1 only if the UE supports two or more layers for spatial multiplexing in UL.		Rel-10	36.331, Annex C.1	pc_FeatrGrp_116_T	Corresponding to the Index of Indicator, the leftmost binary bit 116. Set to true if supporting all functionalities in the feature group.
117	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 117.
118	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 118.
119	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 119.
120	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 120.
121	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 121.
122	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 122.
123	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 123.
124	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 124.
125	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 125.
126	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 126.
127	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 127.

Item	Additional information	Notes	If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release	Release	Ref.	Mnemonic	Comments
128	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 128.
129	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 129.
130	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 130.
131	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 131.
132	Undefined			Rel-10	36.331, Annex C.1		Corresponding to the Index of Indicator, the leftmost binary bit 132.

A.4.5 Additional information

Table A.4.5-1: Additional UE radio access capabilities

Item	Additional capabilities	Ref.	Release	Comments
1	Support of CSG	36.331, Annex	Rel-8	
2	Support of intra-frequency SI acquisition for HO in	B.2 36.306, 4.3.11.1	Rel-9	
3	FDD Support of inter-frequency SI acquisition for HO in	36.306, 4.3.11.2	Rel-9	
1	FDD	26 206 4 2 6 4	Dalo	
<u>4</u> 5	Need for inter-frequency gaps (Note 1) Need for inter-RAT gaps (Note 1)	36.306, 4.3.6.1 36.306, 4.3.6.1	Rel-8 Rel-8	
6	Support of E-UTRA Band 31 only	36.133, Annex	Rel-12	
O	Support of E-OTRA Band 31 only	A.3.7.2	Nei-12	
7	Support of rsrqMeasWideband	36.306, 4.3.6.2	Rel-11	
8	Support of Maximum CSI processes of One on a component carrier within a band with PDSCH transmission mode 10	36.306, 4.3.5.5	Rel-11	
9	Void			
10	Disable E-UTRA capability if IMSVoIP not supported by the network	23.221, 7.2a, 24.301, 4.5	Rel-8	pc_Disable_E- UTRA_NOIMSVoIP
11	Support of Maximum CSI processes of Three on a component carrier within a band with PDSCH transmission mode 10	36.306, 4.3.5.5	Rel-11	
12	Support of Maximum CSI processes of Four on a component carrier within a band with PDSCH transmission mode 10	36.306, 4.3.5.5	Rel-11	
13	Support of multiClusterPUSCH-WithinCC-r10	36.306, 4.3.4.13	Rel-10	
14	Support of FDD-TDD CA with PCell in TDD band	36.306, 4.3.4.28		The UE may not send the IE tdd-FDD-CA-PCellDuplex-r12
15	Support of FDD-TDD CA with PCell in FDD band	36.306, 4.3.4.28		The UE may not send the IE tdd-FDD-CA-PCellDuplex-r12
16	Support of interRAT-PS-HO-ToGERAN	36.306, 4.3.7.11	Rel-8	
17	Support of 64QAM in UL	36.306, 4.3.4.39	Rel-12	
18	Support of 256QAM in DL	36.306, 4.3.5.7	Rel-12	
19	Support CRS based discovery signals measurement	36.306, 4.3.6.9	Rel-12	
20	Support CSI-RS based discovery signals measurement	36.306, 4.3.6.10	Rel-12	
21	Support the behaviour on DL signals and physical channels when SCell is deactivated and discovery signals measurement is configured	36.306, 4.3.4.38	Rel-12	
22	Support of 4Rx antenna ports	36.101, 7.2	Rel-13	
23	Support of ProSe direct communication	36.306, 4.3.21.1	Rel-12	
24	Support of ProSe direct discovery	36.306, 4.3.21.3	Rel-12	
25	Support of CE mode A	36.306, 4.3.8.3	Rel-13	Mandatory for CAT M1 UE
26	Support of CE mode B	36.306, 4.3.29.1	Rel-13	
27	Support of DC ASYNCH	36.306, 4.3.29.2	Rel-12	The UE supports asynchronous dual connectivity and power control mode 2
28	Support of DC SCG DRB	36.306, 4.3.20.2	Rel-12	The UE supports dual connectivity and DRB type of SCG bearer
29	Support of DC Split DRB	36.306, 4.3.20.1	Rel-12	The UE supports dual connectivity and DRB type of Split bearer
30	Support of MPR for intra-band contiguous carrier aggregation bandwidth class C with non-contiguous resource allocation	36.306, 4.3.5.10 36.101, H.1	Rel-10	ModifiedMPR_Behavior bit 0 (leftmost bit)
31	Support of A-MPR associated with NS_05 for Band 1	36.306, 4.3.5.10 36.101, H.1	Rel-10	ModifiedMPR_Behavior bit 1
32	supports downlink LAA operation	36.306, 4.3.23.1	Rel-13	
33	supports measurement and reporting for RSSI and channel occupancy	36.306, 4.3.6.19	Rel-13	
34	Support of User plane CloT	24.301, 5.3.15	Rel-13	
35	Support of EMM-REGISTERED without PDN	24.301, 5.3.15	Rel-13	
36	Support of EMM-REGISTERED with PDN	24.301, 5.3.15	Rel-13	
37	Support of 4Rx antenna ports in at least one FDD frequency band	36.101, 7.2	Rel-13	

38	Support of 4Rx antenna ports in at least one TDD frequency band	36.101, 7.2	Rel-13	
39	Support of FDD-TDD CA with PCell in FDD band and SCell with 4Rx supported TDD RF band	36.306, 4.3.4.28, 36.101, 7.2	Rel-13	
40	Support of 4Rx antenna ports on all supported	36.101,	Rel-13	UE with same FDD band
	FDD operating bands	8.1.2.6.1,	1101 10	support declared in tables 4.3-3
	l 22 sporaning sames	36.133, A.3.8.1		and A.4.5-5
41	Support of 4Rx antenna ports on all supported	36.101,	Rel-13	UE with same TDD band
41	TDD operating bands	8.1.2.6.1,	Kel-13	support declared in tables 4.3-3
	TDD operating bands	36.133, A.3.8.1		and A.4.5-5
40	Command of A MDD accordated with NC 04 for		Dal 40	
42	Support of A-MPR associated with NS_04 for Band 41	36.306, 4.3.5.10	Rel-12	ModifiedMPR_Behavior bit 2
40		36.101, H.1	D-140	Ourse and of DOOL and Observed
43	Support of RSSI and Channel occupancy	36.306, 4.3.6.19	Rel-13	Support of RSSI and Channel
4.4	reporting	00.000 4.0.44.4	D-10	Occupancy.
44	Support of intra-frequency SI acquisition in TDD	36.306, 4.3.11.1	Rel-9	
4-	for HO	00.000 40.440	D 10	
45	Support of inter-frequency SI acquisition in TDD	36.306, 4.3.11.2	Rel-9	
	for HO			
46	Support of 4-layer spatial multiplexing with	36.306, 4.3.5.14.	Rel-10	
	transmission mode 3 and transmission mode 4			
47	Void			
48	Support of autonomous resource selection mode	36.306,	Rel-14	
	with full sensing for V2X sidelink communication	4.3.21.15		
49	Support of SLSS transmission and reception for	36.306,	Rel-14	
	V2X sidelink communication	4.3.21.17		
50	Support of maximum transmit power associated	36.306,	Rel-14	
	with Power class 2 V2X UE	4.3.21.22		
51	Support of TM-9 in CE Mode A	36.306 4.3.29.10	Rel-13	
52	Support of TM-9 in CE Mode B	36.306 4.3.29.11	Rel-13	
53	Support of 4-layer spatial multiplexing with	36.306, 4.3.4.7	Rel-10	
	transmission mode 9 and transmission mode 10			
54	Support of TDD UL/DL reconfiguration for TDD	36.306 4.3.4.31	Rel-12	
	serving cell(s) via monitoring PDCCH with eIMTA-			
	RNTI on a TDD PCell, and HARQ feedback			
	according to UL and DL HARQ reference			
	configurations			
55	Support of Rel-12 DL CSI subframe set	36.306 4.3.4.29	Rel-12	
	configuration			
56	Support of tm9 operation on LAA cell(s).	36.306, 4.3.23.6	Rel-13	
57	Supports of RRM measurements on LAA cell(s)	36.306, 4.3.23.3	Rel-13	
	based on CSI-RS-based DRS.			
58	Support of 256QAM in UL	36.306 4.3.4.73	Rel-14	
59	Support of SRS switching between a band pair	36.306, 4.3.5.24,	Rel-14	
		4.3.5.25		
60	Support of NPRACH on non-anchor carrier	36.306, 4.3.30.1	Rel-14	
61	Support of csi-RS-DiscoverySignalsMeas-r12	36.331, 6.3.6	Rel-12	
62	Support of UL LAA	36.306, 4.3.23.8	Rel-14	
63	Support of TM-6 in CE Mode A	36.306 4.3.29.12	Rel 13	
64	Support of high speed measurement	36.306 4.3.33.1	Rel-14	
	enhancements			
65	Support of PUCCH transmission on SCell in CA	36.306 4.3.4.47	Rel-13	xx
66	Support of simultaneous E-UTRA V2X sidelink	36.306 4.3.5.27	Rel-14	
	and E-UTRA uplink transmissions			
67	Support of transmitting PSCCH/PSSCH using	36.306 4.3.21.14	Rel-14	
	dynamic scheduling			
68	Support of Channel Busy Ratio measurement and	36.306 4.3.21.18	Rel-14	
	reporting of Channel Busy Ratio measurement to			
	eNB for V2X sidelink communication			
69	Support of transmission and reception in the	36.306 4.3.21.21	Rel-14	
	configuration of non-adjacent PSCCH and PSSCH			
	for V2X sidelink communication	00 005 15 5 1	<u> </u>	
70	Support of reception of 20 PSCCH in a subframe	36.306 4.3.21.13	Rel-14	
	and decoding of 136 RBs per subframe counting			
	both PSCCH and PSSCH in a band for V2X			
	sidelink communication			1

	Support of Increased UE carrier monitoring E- JTRA	36.306 4.3.6.6	Rel-12	
Note 1:	Need for inter-frequency gaps or inter-RAT gaps measurement without gaps.	s indicates that the	UE does n	ot support corresponding

Table A.4.5-2: Additional UE radio access capabilities (Mandatory for Rel-11 and onward)

Item	Additional capabilities	Ref.	Release	Status (Note 1)	Support (Note 2)	Comments
1	UE supports CRS interference handling	36.306, 4.3.4.15	Rel-11	O.01		This is a Rel-11 Mandatory feature
	UE supports ss-CCH interference handling	36.306, 4.3.4.20	Rel-11	O.01		This is a Rel-11 Mandatory feature
	UE supports multiple timing advances for each band combination supported by the UE	36.306, 4.3.5.3	Rel-11	O.01		This is a Rel-11 Mandatory feature (Note 3)

Note 1: From Rel-11 onwards 3GPP TSG RAN has discontinued the usage of FGI bits (see A.4.4). Instead it has introduced a different mechanism to accomplish the same purposes based on the following principles (TS 36.306 [17] clause 4): 'For optional features, the UE radio access capability parameter indicates whether the feature has been implemented and successfully tested. For mandatory features with the UE radio access capability parameter, the parameter indicates whether the feature has been successfully tested.' Reflecting this situation, in the present table the status for Mandatory features would be indicated as conditional Optional (O.xx) until IOT testing availability is ensured. The decision when IOT testing availability can be considered ensured is made by 3GPP TSG RAN. After the 3GPP TSG RAN decision that IOT testing is available, the status of the capability parameter will be changed to Mandatory (M) and the release from which this requirement apply would be explicitly stated.

Note 2: If indicated "Yes" the feature shall be implemented and successfully tested for the corresponding release. Note 3: It is mandatory for UEs of this release of the specification to support this capability for band combinations having an UL on multiple FDD bands (see 36.306, 4.3.5.3). In the context of evaluating the status of the capability this would depend on the indication for UL support provided in Table A.4.3.3.3-3 i.e. if for at least one CA configurations for Inter-band CA the UE indicates A-A then the Support of multiple timing advances for this CA configuration is Mandatory.

Table A.4.5-2a: Additional UE radio access capabilities Conditions

O.01 IF	F The feature has been IOT-ed THEN Support shall be indicated ELSE Support shall not be indicated
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Table A.4.5-3: UL MIMO Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	FDD Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	FDD Band 2
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	FDD Band 4
5	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	FDD Band 5
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	FDD Band 6
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7
8	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	FDD Band 8
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5 36.101, 5.5	FDD Band 9
	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	FDD Band 10 FDD Band 11
	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	FDD Band 12
	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	FDD Band 13
14	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14
15	Reserved	36.101, 5.5	FDD Band 15
16	Reserved	36.101, 5.5	FDD Band 16
	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	FDD Band 17
	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	FDD Band 18
	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	FDD Band 19
	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20
21	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	FDD and HD-FDD
		00.404.5.5	Band 21
	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	FDD Band 22
	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	FDD Band 23
24	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	FDD Band 24
25	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	FDD Band 25
	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26
	Frequency band: 807-824, 852-869 MHz	36.101, 5.5	FDD Band 27
28	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28
29	Frequency band: N/A, 717-728 MHz	36.101, 5.5	FDD Band 29
30	Frequency band: 2305-2315, 2350-2360 MHz (Note 1)	36.101, 5.5	FDD Band 30
31	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31
		00.404.5.5	TDD D 100
	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	TDD Band 33
	Frequency band: 2010-2025, 2010-2025 MHz	36.101, 5.5	TDD Band 34
	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	TDD Band 35
	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	TDD Band 36
	Frequency band: 1910-1930, 1910-1930 MHz	36.101, 5.5	TDD Band 37
	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	TDD Band 38
	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	TDD Band 39
40	Frequency band: 2300-2400, 2300-2400 MHz	36.101, 5.5	TDD Band 40
41	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	TDD Band 41
42	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	TDD Band 42
43	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	TDD Band 43
44	Frequency band: 703-803, 703-803 MHz	36.101, 5.5	TDD Band 44
45	Frequency band: 1447-1467, 1447-1467 MHz	36.101, 5.5	TDD Band 45
	Frequency band: 3550-3700, 3550-3700 MHz	36.101, 5.5	TDD Band 48
65	Frequency band: 1920-2010, 2110-2200 MHz	36.101, 5.5	FDD Band 65
66	Frequency band: 1710-1780, 2110-2200 MHz	36.101, 5.5	FDD Band 66
68	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	FDD Band 68
	F	00.404.5.5	EDD D 170
70	Frequency band: 1695-1710, 1995-2020 MHz	36.101, 5.5	FDD Band 70
72	Eroqueney hend: 454, 456, 464, 466 MUL-	26 101 55	EDD Donal 70
	Frequency band: 451-456, 461-466 MHz	36.101, 5.5	FDD Band 72
74	Frequency band: 1427-1470, 1475-1515 MHz	36.101, 5.5	FDD Band 74
Note			

Note 1: The uplink transmission is not allowed at this band for the UE with the externally vehicle-mounted antennas.

Table A.4.5-4: nonContiguousUL-RA-WithinCC-Info-r10 Capabilities (required for MultiClusterPUSCH-WithinCC-r10)

ltem	RF Baseline Implementation Capabilities	Ref.	Comments		
1	Frequency band: 1920-1980, 2110-2170 MHz	36.101, 5.5	FDD Band 1		
2	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	FDD Band 2		
3	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3		
4	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	FDD Band 4		
5	Frequency band: 824-849, 869-894 MHz	36.101, 5.5	FDD Band 5		
6	Frequency band: 830-840, 875-885 MHz	36.101, 5.5	FDD Band 6		
7	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7		
	Frequency band: 880-915, 925-960 MHz	36.101, 5.5	FDD Band 8		
9	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	36.101, 5.5	FDD Band 9		
	Frequency band: 1710-1770, 2110-2170 MHz	36.101, 5.5	FDD Band 10		
	Frequency band: 1427.9-1447.9, 1475.9-1495.9 MHz	36.101, 5.5	FDD Band 11		
12	Frequency band: 699-716, 729-746 MHz	36.101, 5.5	FDD Band 12		
13	Frequency band: 777-787, 746-756 MHz	36.101, 5.5	FDD Band 13		
	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14		
	Reserved	36.101, 5.5	FDD Band 15		
	Reserved	36.101, 5.5	FDD Band 16		
	Frequency band: 704-716, 734-746 MHz	36.101, 5.5	FDD Band 17		
	Frequency band: 815-830, 860-875 MHz	36.101, 5.5	FDD Band 18		
	Frequency band: 830-845, 875-890 MHz	36.101, 5.5	FDD Band 19		
	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20		
	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	36.101, 5.5	FDD Band 21		
	Frequency band: 3410-3490, 3510-3590 MHz	36.101, 5.5	FDD Band 22		
	Frequency band: 2000-2020, 2180-2200 MHz	36.101, 5.5	FDD Band 23		
	Frequency band: 1626.5-1660.5, 1525-1559 MHz	36.101, 5.5	FDD Band 24		
	Frequency band: 1850-1915, 1930-1995 MHz	36.101, 5.5	FDD Band 25		
	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26		
	Frequency band: 807-824, 852-869 MHz	36.101, 5.5	FDD Band 27		
	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28		
	Frequency band: N/A, 717-728 MHz	36.101, 5.5	FDD Band 29		
	Frequency band: 2305-2315, 2350-2360 MHz (Note 1)	36.101, 5.5	FDD Band 30		
	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31		
33	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	TDD Band 33		
	Frequency band: 1900-1920, 1900-1920 MHz	36.101, 5.5	TDD Band 34		
	Frequency band: 1850-1910, 1850-1910 MHz	36.101, 5.5	TDD Band 35		
	Frequency band: 1930-1990, 1930-1990 MHz	36.101, 5.5	TDD Band 36		
	Frequency band: 1930-1930, 1930-1930 MHz	36.101, 5.5	TDD Band 37		
	Frequency band: 2570-2620, 2570-2620 MHz	36.101, 5.5	TDD Band 38		
	Frequency band: 1880-1920, 1880-1920 MHz	36.101, 5.5	TDD Band 39		
	Frequency band: 1800-1826, 1800-1826 MHz	36.101, 5.5	TDD Band 40		
	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	TDD Band 41		
	Frequency band: 3400-3600, 3400-3600 MHz	36.101, 5.5	TDD Band 42		
	Frequency band: 3600-3800, 3600-3800 MHz	36.101, 5.5	TDD Band 43		
	Frequency band: 703-803, 703-803 MHz	36.101, 5.5	TDD Band 44		
	Frequency band: 1447-1467, 1447-1467 MHz	36.101, 5.5	TDD Band 45		
		33.131, 3.3	122 Dana 10		
	Frequency band: 1920-2010, 2110-2200 MHz	36.101, 5.5	FDD Band 65		
	Frequency band: 1710-1780, 2110-2200 MHz	36.101, 5.5	FDD Band 66		
	- 1, 3, amin, o oo, a o Eco mic	221101, 0.0			
	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	FDD Band 68		
70	Frequency band: 1695-1710, 1995-2020 MHz	36.101, 5.5	FDD Band 70		
	Fraguency hand, 454, 456, 464, 466 MUL-	26 404 5 5	EDD David 70		
	Frequency band: 451-456, 461-466 MHz	36.101, 5.5	FDD Band 72		
	Fraguency hand: 1427 1470, 1475, 1519 MHz	36 101 5 5	EDD Band 74		
74 Frequency band: 1427-1470, 1475-1518 MHz 36.101, 5.5 FDD Band 74 Note 1: The uplink transmission is not allowed at this band for the UE with the externally vehicle-					

Table A.4.5-5: 4 Rx antenna ports Capabilities

Item	Ref.	Release	Band	Supported	Comments
1	36.101, 7.2	Rel-13	FDD Band 1		
2	36.101, 7.2	Rel-13	FDD Band 2		
3	36.101, 7.2	Rel-13	FDD Band 3		
4	36.101, 7.2	Rel-15	FDD Band 4		
7	36.101, 7.2	Rel-13	FDD Band 7		
20	36.101, 7.2	Rel-13	FDD Band 20		
21	36.101, 7.2	Rel-14	FDD Band 21		
25	36.101, 7.2	Rel-14	FDD Band 25		
34	36.101, 7.2	Rel-15	FDD Band 34		
39	36.101, 7.2	Rel-13	TDD Band 39		
40	36.101, 7.2	Rel-14	TDD Band 40		
41	36.101, 7.2	Rel-13	TDD Band 41		
42	36.101, 7.2	Rel-13	TDD Band 42		
66	36.101, 7.2	Rel-15	FDD Band 66		

Table A.4.5-6: Void

Table A.4.5-6a: E-UTRA ProSe Communication Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3
2	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7
3	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14
4	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20
5	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26
6	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28
7	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31
8	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	FDD Band 68
9	Frequency band: 451-456, 461-466 MHz	36.101, 5.5	FDD Band 72

Table A.4.5-6b: E-UTRA ProSe Discovery Capabilities

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 1850-1910, 1930-1990 MHz	36.101, 5.5	FDD Band 2
2	Frequency band: 1710-1785, 1805-1880 MHz	36.101, 5.5	FDD Band 3
3	Frequency band: 1710-1755, 2110-2155 MHz	36.101, 5.5	FDD Band 4
4	Frequency band: 2500-2570, 2620-2690 MHz	36.101, 5.5	FDD Band 7
5	Frequency band: 788-798, 758-768 MHz	36.101, 5.5	FDD Band 14
6	Frequency band: 832-862, 791-821MHz	36.101, 5.5	FDD Band 20
7	Frequency band: 814-849, 859-894 MHz	36.101, 5.5	FDD Band 26
8	Frequency band: 703-748, 758-803 MHz	36.101, 5.5	FDD Band 28
9	Frequency band: 452.5-457.5, 462.5-467.5 MHz	36.101, 5.5	FDD Band 31
10	Frequency band: 2496-2690, 2496-2690 MHz	36.101, 5.5	TDD Band 41
11	Frequency band: 698-728, 753-783 MHz	36.101, 5.5	FDD Band 68
12	Frequency band: 451-456, 461-466 MHz	36.101, 5.5	FDD Band 72

Table A.4.5-7: E-UTRA V2X Sidelink Communication

Item	RF Baseline Implementation Capabilities	Ref.	Comments
1	Frequency band: 5855-5925, 5855-5925 MHz	36.101, 5.5	TDD Band 47

Table A.4.5-7a: Supported Inter-band con-current V2X configurations

Inter-band con-current V2X configurations	Release	Comments
V2X_3A-47A	Rel-14	-
V2X_5A-47A	Rel-14	-
V2X_7A-47A	Rel-14	-
V2X_8A-47A	Rel-14	-
V2X_20A-47A	Rel-14	-
V2X_34A-47A	Rel-14	-
V2X_39A-47A	Rel-14	-
V2X_41A-47A	Rel-14	-

Table A.4.5-7b: Supported V2X intra-band multi-carrier configurations

V2X intra-band multi-carrier configurations	Release	Comments
V2X_47B	Rel-14	-

Table A.4.5-8: Supported CA configurations with multi layer spatial multiplexing

Item		Release	Ref.	Comments
1	2DL FDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-10	36.101, 5.6A 36.306, 4.3.5.14	-
2	2DL TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-10	36.101, 5.6A 36.306, 4.3.5.14	-
3	2DL FDD-TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-12	36.101, 5.6A 36.306, 4.3.5.14	-
4	3DL FDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-10	36.101, 5.6A 36.306, 4.3.5.14	-
5	3DL TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-10	36.101, 5.6A 36.306, 4.3.5.14	-
6	3DL FDD-TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-12	36.101, 5.6A 36.306, 4.3.5.14	-
7	4DL FDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-11	36.101, 5.6A 36.306, 4.3.5.14	-
8	4DL TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-11	36.101, 5.6A 36.306, 4.3.5.14	-
9	4DL FDD-TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-12	36.101, 5.6A 36.306, 4.3.5.14	-
10	5DL FDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-11	36.101, 5.6A 36.306, 4.3.5.14	-
11	5DL TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-11	36.101, 5.6A 36.306, 4.3.5.14	-
12	5DL FDD-TDD CA, with 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4	Rel-12	36.101, 5.6A 36.306, 4.3.5.14	-
NOTE	: At least one component carrier in a CA	configuration	n shall support 4Rx	antenna ports

NOTE: At least one component carrier in a CA configuration shall support 4Rx antenna ports and 4-layer spatial multiplexing with TM 3 and TM 4.

A.4.6 CA Physical Layer Baseline Implementation Capabilities

Table A.4.6-1: Downlink CA capabilities (for one or more of the supported CA configurations in Tables A.4.6.1-3, A.4.6.2-3, A.4.6.3-4, A.4.6.3-5)

Item	Bandwidth Class	Ref.	Comments
1	DL CA with 2 carriers	36.101, 5.6A	(NOTE 1)
		36.331, 6.3.6	
2	DL CA with 3 carriers	36.101, 5.6A	
		36.331, 6.3.6	
3	DL CA with 4 carriers	36.101, 5.6A	
		36.331, 6.3.6	
4	DL CA with 5 carriers	36.101, 5.6A	
		36.331, 6.3.6	
Note 1: A UE that supports operating Band 66 (Table A.4.3-3) and CA operation in			
any CA band shall support the DL CA configurations CA_66B, CA_66C			
and CA 66A-66A, as specified in Note 6, in Table 5.5-1, in TS 36,101 [19].			

Table A.4.6-2: Uplink CA capabilities (for one or more of the supported CA configurations in Tables A.4.6.1-3, A.4.6.2-3, A.4.6.3-3, A.4.6.3-4, A.4.6.3-5)

Item	Bandwidth Class	Ref.	Comments
1	UL CA with 2 carriers	36.101, 5.6A	
		36.331, 6.3.6	
2	UL CA with 3 carriers	36.101, 5.6A	Not used in any
		36.331, 6.3.6	valid CA
			configurations in
			TS 36.101 yet

A.4.6.1 Intra-band contiguous CA Physical Layer Baseline Implementation Capabilities

Table A.4.6.1-1: Downlink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.1-3)

Item	Bandwidth Class	Ref.	Comments
1	DL Intra-band contiguous CA BW Class B	36.101, 5.6A	
		36.331, 6.3.6	
2	DL Intra-band contiguous CA BW Class C	36.101, 5.6A	
		36.331, 6.3.6	
3	DL Intra-band contiguous CA BW Class D	36.101, 5.6A	
		36.331, 6.3.6	
4	DL Intra-band contiguous CA BW Class E	36.101, 5.6A	
		36.331, 6.3.6	
5	DL Intra-band contiguous CA BW Class F	36.101, 5.6A	
		36.331, 6.3.6	

Table A.4.6.1-2: Uplink Intra-band contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.1-3)

Item	Bandwidth Class	Ref.	Comments
1	UL Intra-band contiguous CA BW Class B	36.101, 5.6A	Not used in any
		36.331, 6.3.6	valid CA
			configurations in
			TS 36.101 yet
2	UL Intra-band contiguous CA BW Class C	36.101, 5.6A	
		36.331, 6.3.6	
3	UL Intra-band contiguous CA BW Class D	36.101, 5.6A	
		36.331, 6.3.6	

Table A.4.6.1-3: Supported CA configurations for Intra-band contiguous CA

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5,8)	Fallback CA configurations Exceptions (Note 6,8)	Supported band(s) for 4 layer spatial multiplexing (Note 10)
CA_1C	Rel-10				-	-	
CA_2C	Rel-12				-	-	
CA_3C	Rel-12				-	-	
CA_5B	Rel-13				-	-	
CA_7B	Rel-13				-	-	
CA_7C	Rel-11				-	-	
CA_8B	Rel-13				-	-	
CA_12B	Rel-12				-	-	
CA_23B	Rel-12				-	-	
CA_27B	Rel-12				-	-	
CA_38C	Rel-11				-	-	
CA_39C	Rel-12				-	-	
CA_40C	Rel-10				-	-	
CA_40D	Rel-12				-	-	
CA_41C	Rel-11				-	-	
CA_41D	Rel-12				-	-	
CA_42C	Rel-12				-	-	
CA_66B (NOTE	Rel-13				-	-	
9)							
CA_66C (NOTE	Rel-13		· · · · · · · · · · · · · · · · · · ·		-	-	
9)							
CA_66D	Rel-13				-	-	
CA_70C	Rel-14				-	-	

- Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-1, e.g. Note 1: 'CA_1C' indicates CA operation on E-UTRA band 1 with DL CA Bandwidth Class C.
- Note 2: The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-1. For this release of specification valid choices are 'N', 'XB' and 'XC', where X is the band. For example, for CA_1C, N would mean only DL CA, '1C' would mean both DL and UL CA.
- Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-1.
- Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
- Fallback Bands Exceptions column is used for the FALLBACK() operator in "Tested Band Selection Criteria" Note 5: (Table 4.1-1b). FALLBACK(A.4.6.1-3) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions: Band is not listed in the Fallback Band Exceptions for the considered CA Configuration

Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration

- Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators Note 6: in "Tested CA Configurations Criteria" (Table 4.1-1c). FALLBACK(A.4.6.1-3) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions:
 - Fallback CA Configuration is not listed in "Fallback CA Configurations Exceptions" Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.

FALLBACK_UL(A.4.6.1-3) shall return FALLBACK(A.4.6.1-3) AND UL(A.4.6.1-3)

- UL(A.4.6.1-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was Note 7: declared in column "Supported CA Bandwidth Class(es) in UL". UL_2CC(A.4.6.1-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL". UL_3CC(A.4.6.1-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
- Note 8: The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception.
- A UE that supports operating Band 66 (Table A.4.3-3) and CA operation in any CA band shall support the DL Note 9: CA configurations CA_66B, CA_66C and CA_66A-66A, as specified in Note 6, in Table 5.5-1, in TS 36.101
- Note 10: The UE supplier shall indicate the frequency bands where 4 layer spatial multiplexing is supported in the supported CA Configurations.

A.4.6.2 Intra-band non-contiguous CA Physical Layer Baseline Implementation Capabilities

Table A.4.6.2-1: Downlink Intra-band non-contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.2-3)

Item	Bandwidth Class	Ref.	Comments
1	DL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination A-A	36.331, 6.3.6	
2	DL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination A-C/C-A	36.331, 6.3.6	
3	Void		
4	DL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination A-D/D-A	36.331, 6.3.6	
5	DL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination C-C	36.331, 6.3.6	
6	DL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination A-E	36.331, 6.3.6	
7	DL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination B-D or C-D	36.331, 6.3.6	
8	DL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination A-C-C or A-B-C	36.331, 6.3.6	
9	DL Intra-band non-contiguous CA BW	36.101, 5.6A	with three sub-
	Class Combination A-A-A	36.331, 6.3.6	blocks

Table A.4.6.2-2: Uplink Intra-band non-contiguous CA Bandwidth Class capabilities (for one or more of the supported CA configurations in Table A.4.6.2-3)

Item	Bandwidth Class	Ref.	Comments
1	UL Intra-band non-contiguous CA BW	36.101, 5.6A	
	Class Combination A-A	36.331, 6.3.6	

Table A.4.6.2-3: Supported CA configurations for Intra-band non-contiguous CA

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5,8)	Fallback CA configurations Exceptions (Note 6,8)	Supported band(s) for 4 layer spatial multiplexing (Note 10)
CA_2A-2A	Rel-12				-	-	
CA_3A-3A	Rel-12				-	-	
CA_4A-4A	Rel-12				-	-	
CA_5A-5A	Rel-13				-	-	
CA_7A-7A	Rel-12				-	-	
CA_23A-23A	Rel-12				-	-	
CA_25A-25A	Rel-11				-	-	
CA_41A-41A	Rel-11				-	-	
CA_41A-41C	Rel-12				-	-	
CA_41C-41A	Rel-12				-	-	
CA_42A-42A	Rel-12				-	-	
CA_66A-66A (NOTE 9)	Rel-13						
CA_66A-66A- 66A	Rel-15				-	-	
CA_66A-66C	Rel-14				-	-	

- Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-3, e.g. 'CA_2A-2A' indicates CA intra-band non-contiguous operation on E-UTRA band 2 with DL CA Bandwidth Class A-A.
- Note 2: The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-3. For this release of specification valid choices are 'N', 'XA-XA' and 'XC', where X is the band. For example, for CA_4A-4A, 'N' would mean only DL CA, '4A-4A' would mean both DL and UL CA.
- Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-3.
- Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
- Note 5: Fallback Bands Exceptions column is used for the FALLBACK() operator in "Tested Band Selection Criteria" (Table 4.1-1b). FALLBACK(A.4.6.2-3) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions:
 - 1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
 - 2. Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration
- Note 6: Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators in "Tested CA Configurations Criteria" (Table 4.1-1c). FALLBACK(A.4.6.2-3) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions:
 - 1. Fallback CA Configuration is not listed in "Fallback CA Configurations Exceptions"
 - Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.
- Note 7: UL(A.4.6.2-3) shall return all supported CA Configurations where at least one >1 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".

 UL_2CC(A.4.6.2-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".
 - UL_3CC(A.4.6.2-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
- Note 8: The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception.
- Note 9: A UE that supports operating Band 66 (Table A.4.3-3) and CA operation in any CA band shall support the DL CA configurations CA_66B, CA_66C and CA_66A-66A, as specified in Note 6, in Table 5.5-1, in TS 36.101 [19].
- Note 10: The UE supplier shall indicate the frequency bands where 4 layer spatial multiplexing is supported in the supported CA Configurations.

A.4.6.3 Inter-band CA Physical Layer Baseline Implementation Capabilities

Table A.4.6.3-1: Downlink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.6.3-3, A.4.6.3-4, A.4.6.3-5)

Item	Bandwidth Class	Ref.	Comments
1	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A	36.331, 6.3.6	
2	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A (two bands)	36.331, 6.3.6	
3	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A (three bands)	36.331, 6.3.6	
4	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-C or A-B (two bands)	36.331, 6.3.6	
5	DL Inter-band CA BW Class Combination	36.101, 5.5	
	A-A where one of the bands is DL-only		
6	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-A (four bands)	36.331, 6.3.6	
7	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-C or A-A-B (three bands)	36.331, 6.3.6	
8	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-C (four bands)	36.331, 6.3.6	
9	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-D or C-C or C-B (two bands)	36.331, 6.3.6	
10	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-C or A-A-B (two bands)	36.331, 6.3.6	
11	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-A (two bands)	36.331, 6.3.6	
12	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-A (three bands)	36.331, 6.3.6	
13	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-B or A-A-A-C (three bands)	36.331, 6.3.6	
14	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-A (five bands)	36.331, 6.3.6	
15	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-D (three bands)	36.331, 6.3.6	
16	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-B or A-A-A-C (four bands)	36.331, 6.3.6	
17	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-A (four bands)	36.331, 6.3.6	
18	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A-A-C or A-A-A-B (two bands)	36.331, 6.3.6	

Table A.4.6.3-2: Uplink Inter-band CA Bandwidth Class Combination capabilities (for one or more of the supported CA configurations in Table A.4.6.3-3, A.4.6.3-4, A.4.6.3-5)

Item	Bandwidth Class	Ref.	Comments
1	UL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-A	36.331, 6.3.6	
2	UL Inter-band CA BW Class Combination	36.331, 6.3.6	
	A-A-A (two bands)		
3	DL Inter-band CA BW Class Combination	36.101, 5.6A	
	A-C (two bands)	36.331, 6.3.6	

Table A.4.6.3-3: Supported CA configurations for Inter-band CA (two bands)

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported UL Bands (Note 9)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5)	Fallback CA configurations Exceptions (Note 6)	Supported band(s) for 4 layer spatial multiplexing (Note 10)
CA_1A-3A	Rel-12					-	-	
CA_1A-3C	Rel-13					-	-	
CA_1A-5A	Rel-10					-	-	
CA_1A-7A	Rel-12					-	-	
CA_1A-8A	Rel-12					-	-	
CA_1A-11A	Rel-12					-	-	
CA_1A-18A	Rel-11					-	-	
CA_1A-19A	Rel-11					-	-	
CA_1A-20A	Rel-12					-	-	
CA_1A-21A	Rel-11					-	-	
CA_1A-26A	Rel-12					-	-	
CA_1A-28A	Rel-12					-	-	
CA_1A-40A	Rel-13							
CA_1A-41A	Rel-12					-	-	
CA_1A-41C	Rel-12					-	-	
CA_1A-42A	Rel-12					-	-	
CA_1A-42C	Rel-12					-	-	
	(1UL)							
	Rel-14							
CA_1A-46C	(2UL) Rel-14							
CA_1A-46D	Rel-14 Rel-14					-	-	
CA_1A-46E	Rel-14					-	-	
CA_1A-46E CA_1C-3A	Rel-14 Rel-14					-	-	
						-	-	
CA_2A-2A-4A-4A CA_2A-2A-5A	Rel-13 Rel-12					-	-	
CA_2A-2A-5A CA_2A-2A-12A						-	-	
CA_2A-2A-12B	Rel-13 Rel-13					-	-	
	Rel-13					-	-	
CA_2A-2A-13A CA 2A-2A-30A	Rel-12					-	-	
CA_2A-2A-66A	Rel-13					-	-	
CA_2A-2A-00A CA_2A-2A-71A	Rel-15					-	-	
CA_2A-4A	Rel-12					-	_	
CA_2A-4A CA 2A-4A-4A	Rel-12					-	-	
CA_2A-4A-4A	Rel-12					-	_	
CA_2A-5B	Rel-14					-	-	
CA_2A-7A	Rel-13					_	_	
CA_2A-7A	Rel-14					-	-	
CA_2A-7A-7A CA_2A-7C	Rel-14					-	-	
CA_2A-12A	Rel-12					-	-	
CA_2A-12A CA_2A-12B	Rel-12					-	-	
CA_2A-13A	Rel-12					-	-	
CA_2A-14A	Rel-15					-	-	
CA_2A-17A	Rel-11					-	-	
CA_2A-28A	Rel-13					-	-	
CA_2A-29A	Rel-11			2		-	-	
CA 2A-30A	Rel-12					-	-	
CA_2A-66A-66A	Rel-14					-	-	
CA_2A-66A	Rel-14					-	-	
CA_2A-66C	Rel-14					-	-	
CA_2A-71A	Rel-15					-	-	
CA_2C-5A	Rel-13					-	-	
CA_2C-29A	Rel-12			2		-	-	
CA_2C-66A	Rel-15					-	-	
CA_3A-5A	Rel-11					-	-	
CA_3A-7A	Rel-11					-	-	
CA_3A-7B	Rel-13					-	-	
CA_3A-7C	Rel-12					-	-	
CA_3A-8A	Rel-11					-	-	
CA_3A-11A	Rel-14	<u> </u>				_	-	

CA_3A-18A	Rel-15					
_	(1UL, 2UL)					
CA_3A-19A	Rel-12			-	-	
CA_3A-20A	Rel-11			-	-	
				-	-	
CA_3A-21A	Rel-14			-	-	
	(1UL, 2UL)					
CA_3A-26A	Rel-12			-	-	
CA_3A-27A	Rel-12			-	-	
CA_3A-28A	Rel-12			_	_	
0/1_0/120/1	(1UL)					
	Rel-14					
	(2UL)					
CA_3A-32A	Rel-14			-	-	
CA_3A-38A	Rel-13			-	-	
CA_3A-40A	Rel-13					
CA_3A-41A	Rel-13			-	-	
CA_3A-42A	Rel-12					
CA_3A-42A				-	-	
	(1UL)					
	Rel-14					
	(2UL)			<u></u>		
CA_3A-42C	Rel-12			 -	-	
	(1UL)					
	Rel-14					
04 04 404	(2UL)		-			
CA_3A-46A	Rel-14			-	-	
CA_3A-46C	Rel-14			-	-	
CA_3A-46D	Rel-14			-	-	
CA_3A-46E	Rel-14			-	-	
CA_3A-69A	Rel-14		3	-	-	
CA_3C-5A	Rel-13			_	-	
CA_3C-7A	Rel-12			-	-	
CA_3C-8A	Rel-14			-	-	
CA_4A-4A-5A	Rel-12			-	-	
CA_4A-4A-7A	Rel-12			-	-	
CA_4A-4A-12A	Rel-12			-	-	
CA_4A-4A-13A	Rel-12			_	-	
				_		
CA_4A-4A-29A	Rel-13			-	-	
CA_4A-4A-30A	Rel-13			-	-	
CA_4A-4A-71A	Rel-15			-	-	
CA_4A-5A	Rel-11			-	-	
CA 4A-7A-7A	Rel-14			-	-	
CA_4A-7A	Rel-11			-	_	
				-	-	
CA_4A-7C	Rel-14					
CA_4A-12A	Rel-11			-	-	
CA_4A-12B	Rel-12			-	-	
CA_4A-13A	Rel-11			 -	-	
 CA_4A-17A	Rel-11			-	-	
CA_4A-27A	Rel-12	1		-	-	
CA_4A-28A	Rel-13	+	+	-	-	
			4			
CA_4A-29A	Rel-11		4	-	-	
CA_4A-30A	Rel-12			-	-	
CA_4A-71A	Rel-15			 -	-	
CA_5A-5A-66A	Rel-14			-	-	
CA_5A-7A	Rel-12			_	-	
			+			
CA_5A-12A	Rel-11		-	-	-	
CA_5A-13A	Rel-12			-	-	
CA_5A-17A	Rel-11		<u> </u>	 -	-	
CA_5A-25A	Rel-12			 -	-	
CA_5A-30A	Rel-12			-	-	
CA_5A-46A	Rel-14		5	-	-	
			5			
CA_5A-66A	Rel-14		1	-	-	
CA_5A-66A-66A	Rel-14			-	-	
CA_5B-30A	Rel-14			 -	-	
CA_5B-66A	Rel-14			 -	-	
CA_5B-66A-66A	Rel-14			-	-	
CA_7A-8A	Rel-12			-	-	
UA_IA-UA	INGITIZ					l .

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CA_7A-12A	Rel-12					-	-	
CA_7A-20A	Rel-11					-	-	
CA_7A-22A	Rel-13					-	-	
CA_7A-28A	Rel-12					-	-	
CA_7B-28A	Rel-13					-	-	
CA_7A-42A-42A	Rel-13					-	-	
CA_8A-11A	Rel-12					_	-	
CA_8A-20A	Rel-11					-	-	
CA_8A-27A	Rel-15					-	-	
CA_8A-28A	Rel-14			8		-	-	
CA_8A-40A	Rel-12					-	-	
CA_8A-41A	Rel-13					-	-	
CA_8A-41C	Rel-13					-	-	
CA_8A-42A	Rel-13					-	-	
CA_8A-42C	Rel-13					-	-	
CA_8A-46A	Rel-14			8		-	-	
CA_11A-18A	Rel-11					-	-	
CA_11A-28A	Rel-14						-	
				4.4		-		
CA_11A-46A	Rel-14			11		-	-	
CA_12A-25A	Rel-12	L				-	-	
CA_12A-30A	Rel-12					-	-	
 CA_12A-66A	Rel-14					-	-	
CA_12A-66A-66A	Rel-14					-	-	
CA_12A-00A-00A CA_13A-46A	Rel-14			13				
				13		-	-	
CA_13A-66A	Rel-14							
CA_13A-66A-66A	Rel-14					-	-	
CA_14A-30A	Rel-15					-	-	
CA_14A-66A	Rel-15					-	-	
CA_14A-66A-66A	Rel-15					-	-	
CA_18A-28A	Rel-12					28	-	
CA_19A-21A	Rel-12						-	
CA_19A-28A	Rel-13					28	-	
						20		
CA_19A-42A	Rel-12					-	-	
	(1UL)							
	Rel-14							
	(2UL)							
CA_19A-42C	Rel-12					-	-	
	(1UL)							
	Rel-14							
	(2UL)							
CA_19A-46A	Rel-14					-	-	
CA_19A-46C	Rel-14					-	-	
CA_19A-46D	Rel-14					-	-	
CA_19A-46E	Rel-14							
						-	-	
CA_20A-28A	Rel-14			00		28	-	
CA_20A-32A	Rel-12			20		-	-	
CA_20A-40A	Rel-13					-	-	
CA_20A-42A-42A	Rel-13					-	-	
CA_21A-28A	Rel-14					-	-	
	(1UL, 2UL)	L				<u> </u>		
CA_21A-42A	Rel-13					-	-	
_	(1UL)							
	Rel-14							
	(2UL)							
CA_21A-42C	Rel-13					_	_	
UN_21A-42U	(1UL)					_	_	
	Rel-14							
04 044 464	(2UL)							
CA_21A-46A	Rel-14					-	-	
CA_21A-46C	Rel-14					-	-	
CA_21A-46D	Rel-14					-	-	
CA_21A-46E	Rel-14	L				-	•	
CA_20A-67A	Rel-12			20		-	-	
CA_23A-29A	Rel-12			23		-	-	
CA_26A-41A	Rel-12			==		-	-	
- · · · · · · · · · ·	1.01.12		I		l	l		

CA 26A-41C	Rel-12		T		-	
CA_26A-41C	Rel-12	26			-	
CA_28A-41A	Rel-14	20				
				-	-	
CA_28A-41C	Rel-13			-	-	
CA_28A-42A	Rel-13			-	-	
CA_28A-42C	Rel-13	00		-	-	
CA_28A-46A	Rel-14	28		-	-	
CA_29A-30A	Rel-12	30		-	-	
CA_29A-66A	Rel-14	66		-	-	
CA_29A-66A-66A	Rel-14	66		-	-	
CA_29A-66C	Rel-14	66		-	-	
CA_29A-70A	Rel-14	70		-	-	
CA_29A-70C	Rel-15	70		-	-	
CA_30A-66A	Rel-14			-	-	
CA_30A-66A-66A	Rel-14			-	-	
CA_39A-41A	Rel-12			-	-	
CA_39A-41C	Rel-12			-	-	
CA_39A-41D	Rel-13			-	-	
CA_39C-41C	Rel-13			-	-	
CA_39A-46A	Rel-14	39		-	-	
CA_40A-46A	Rel-14	40		-	•	
CA_41A-42A	Rel-12			-	-	
CA_41A-42C	Rel-13			-	-	
CA_41C-42A	Rel-13			-	-	
CA_41C-42C	Rel-13			-	-	
CA_46A-46A-66A	Rel-14	66		-	-	
CA_46A-66A	Rel-14	66		-	-	
CA_46A-66A-66A	Rel-14	66		-	-	
CA_46A-66C	Rel-14	66		-	-	
CA_46A-70A	Rel-14	70		-	-	
CA_46C-66A	Rel-14	66		-	-	
CA 66A-66A-70A	Rel-15			-	-	
CA_66A-66A-70C	Rel-15			-	-	
CA 66A-66A-71A	Rel-15			-	-	
CA_66A-70A	Rel-15			-	-	
CA_66A-70C	Rel-15			-	-	
CA_66C-70A	Rel-15			_	-	
CA_66C-70C	Rel-15			_	-	
CA_66C-71A	Rel-15			-	-	
CA_70A-71A	Rel-15			-	-	
CA_70C-71A	Rel-15			_	-	
0.1.100 / 1/1	1.01.10	 l	1		1	

- Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2, e.g. 'CA_1A-3A' indicates interband CA operation on E-UTRA band 1 with DL CA Bandwidth Class A and on E-UTRA band 3 with DL CA Bandwidth Class A
- Note 2: The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-2. For this release of specification valid choices are 'N', 'XA-XA' and 'XC', where X is the band. For example, for full UL CA support in CA_18A-28A, UE shall indicate 18A-28A. For no UL CA 'N'
- Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2.
- Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
- Note 5: Fallback Bands Exceptions column is used for the FALLBACK() operator in "Tested Band Selection Criteria" (Table 4.1-1b). FALLBACK(A.4.6.3-3) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions:
 - 1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
 - 2. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column
 - 3. Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration
- Note 6: Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators in "Tested CA Configurations Criteria" (Table 4.1-1c). FALLBACK(A.4.6.3-3) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions:
 - 1. Fallback CA Configuration is not listed in "Fallback CA Configurations Exceptions"
 - 2. UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column
 - 3. Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.

FALLBACK_UL(A.4.6.3-3) shall return FALLBACK(A.4.6.3-3) AND UL(A.4.6.3-3)

- Note 7: UL(A.4.6.3-3) shall return all supported CA Configurations where at least one UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".

 UL_2CC(A.4.6.3-3) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".

 UL_3CC(A.4.6.3-3) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
- Note 8: The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception
- Note 9: List all the CA Combination bands where UL is supported
- Note 10: The UE supplier shall indicate the frequency bands where 4 layer spatial multiplexing is supported in the supported CA Configurations.

Table A.4.6.3-4: Supported CA configurations for Inter-band CA (three bands)

E-UTRA CA configuration / Item (Note 1)	Release	Supported	Supported CA Bandwidth Class(es) in UL (Note 2,7)	Supported UL Bands (Note 9)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5,8)	Fallback CA configurations Exceptions (Note 6,8)	Supported band(s) for 4 layer spatial multiplexing (Note 10)
CA_1A-3A-5A	Rel-12					-	-	
CA_1A-3A-7A	Rel-13					-	-	
CA_1A-3A-8A	Rel-12					-	-	
CA_1A-3A-11A	Rel-14					-	-	
CA_1A-3A-18A	Rel-15							
CA_1A-3A-19A	Rel-12					-	-	
	(1UL) Rel-14							
	(2UL)							
CA_1A-3A-20A	Rel-12					-	-	
CA_1A-3A-21A	Rel-14					-	-	
	(1UL,							
04 44 04 004	2UL)							
CA_1A-3A-26A	Rel-12	-				-	-	
CA_1A-3A-28A	Rel-13					-	-	
CA_1A-3A-40A	Rel-13	-				-	-	
CA_1A-3A-41A	Rel-14					-	-	
CA_1A-3A-42A	Rel-13					-	-	
	(1UL) Rel-14							
CA_1A-3A-42C	(2UL) Rel-13							
CA_1A-3A-42C						-	-	
	(1UL) Rel-14							
	(2UL)							
CA_1A-3C-8A	Rel-14						-	
CA_1A-5A-7A	Rel-14					-		
CA_1A-7A-8A	Rel-12					-	-	
CA_1A-7A-20A	Rel-12					-	-	
CA_1A-7A-20A CA_1A-8A-11A	Rel-13					-	-	
CA_1A-8A-28A	Rel-14			1, 8		28	1A-28A	
CA_1A-8A-40A	Rel-13			1, 0		-	- IA-20A	
CA_1A-11A-18A	Rel-13					-	-	
CA_1A-11A-16A CA_1A-11A-28A	Rel-14							
CA_1A-11A-28A	Rel-14					28	1A-28A	
CA_1A-10A-20A	Rel-12					20	1A-20A	
						_	-	
CA_1A-19A-21A	(1UL) Rel-14							
	(2UL)							
CA_1A-19A-28A	Rel-13					28	1A-28A	
CA_1A-19A-20A CA_1A-19A-42A	Rel-13						-	
ON_IA-13A-42A	(1UL)						_	
	Rel-14							
	(2UL)							
CA_1A-19A-42C	Rel-13					-	-	
	(1UL)							
	Rel-14							
	(2UL)							
CA_1A-21A-28A	Rel-14					-	-	
CA_1A-21A-42A	Rel-13					-	-	
	(1UL)							
	Rel-14							
	(2UL)	L						
CA_1A-21A-42C	Rel-13					-	-	
	(1UL)							
	Rel-14							
	(2UL)	L						
CA_1A-28A-42A	Rel-14					-	-	
CA_1A-28A-42C	Rel-14					-	-	
CA_1A-41A-42A	Rel-14			1, 42		41-	41A-42A-	
CA_1A-41A-42C	Rel-14			1, 42		41	41A-42C	

	T = -	1				T
CA_1A-41C-42A	Rel-14	1, 4		41	41C-42A	
CA_1A-41C-42C	Rel-14	1, 4	12	41	41C-42C	
CA_2A-2A-4A-5A	Rel-13			-	-	
CA_2A-2A-4A-71A	Rel-15					
CA_2A-2A-5A-12A	Rel-13			-	-	
CA 2A-2A-5A-30A	Rel-14			-	-	
CA 2A-2A-12A-30A	Rel-14			-	-	
CA_2A-2A-66A-71A	Rel-15					
CA 2A-4A-5A	Rel-12			_	-	
CA_2A-4A-7A	Rel-13			_	_	
CA_2A-4A-7A-7A	Rel-14	2,	1			
CA 2A-4A-12A	Rel-12	Σ,	T	_	-	
CA_2A-4A-13A	Rel-12			-	-	
CA_2A-4A-29A	Rel-12			-	-	
CA_2A-4A-71A	Rel-15			-	-	
CA_2A-5A-12A	Rel-12			-	-	
CA_2A-5A-12B	Rel-13			-	-	
CA_2A-5A-13A	Rel-12			-	-	
CA_2A-5A-30A	Rel-12			-	-	
CA_2A-5A-66A	Rel-14			-	-	
CA_2A-5B-30A	Rel-14			-	-	
 CA_2A-5B-66A	Rel-14			-	-	
CA_2A-5B-66A-66A	Rel-15			_	-	
CA_2A-7A-12A	Rel-13			_	-	
CA_2A-12A-30A	Rel-12			_	-	
CA_2A-12A-66A	Rel-14			_	-	
CA_2A-12A-66A-66A	Rel-14			-	-	
CA_2A-12A-66A CA_2A-13A-66A						
	Rel-14			-	-	
CA_2A-14A-30A	Rel-15			-	-	
CA_2A-14A-66A	Rel-15			-	-	
CA_2A-29A-30A	Rel-12			-	-	
CA_2A-30A-66A	Rel-14			-	-	
CA_2A-66A-71A	Rel-15			-	-	
CA_2A-66A-66A-71A	Rel-15					
CA_2C-5A-30A	Rel-13			-	-	
CA_2C-12A-30A	Rel-13			-	-	
CA 2C-29A-30A	Rel-13			-	-	
CA 3A-7A-8A	Rel-13			-	-	
CA_3A-7A-20A	Rel-12			_	-	
CA 3A-7A-28A	Rel-13			_	-	
CA_3A-8A-11A	Rel-14			_	_	
CA_3A-8A-28A	Rel-14	3,	Ω	28	3A-28A	
CA_3A-8A-40A		3,	0	-	- -	
_	Rel-13					
CA_3A-11A-28A	Rel-14			-	-	
CA_3A-19A-21A	Rel-14			_	-	
	(1UL,					
00 00 400 400	2UL)					
CA_3A-19A-42A	Rel-13			-	-	
	(1UL)					
	Rel-14					
	(2UL)					
CA_3A-19A-42C	Rel-13			-	-	
	(1UL)					
	Rel-14					
	(2UL)					
CA_3A-20A-32A	Rel-14			-	-	
CA_3A-21A-28A	Rel-14			_	-	
CA_3A-21A-42A	Rel-14			-	-	
	(1UL,					
	2UL)					
	, ,			-	-	
CA 3A-21A-42C	Rel-14				1	!
CA_3A-21A-42C CA_3A-28A-41A	Rel-14 Rel-14			_	-	
CA_3A-28A-41A	Rel-14				-	
CA_3A-28A-41A CA_3A-28A-42A	Rel-14 Rel-14			-	-	
CA_3A-28A-41A CA_3A-28A-42A CA_3A-28A-42C	Rel-14 Rel-14 Rel-14			-		
CA_3A-28A-41A CA_3A-28A-42A	Rel-14 Rel-14			-	-	

CA_4A-5A-13A	Rel-12		-	-	
CA_4A-5A-30A	Rel-12		-	-	
CA_4A-7A-12A	Rel-12		-	-	
CA_4A-12A-30A	Rel-12		-	-	
CA_4A-29A-30A	Rel-12		-	-	
CA_4A-4A-5A-30A	Rel-13		-	-	
CA_4A-4A-12A-30A	Rel-13		-	-	
CA_4A-4A-29A-30A	Rel-13		-	-	
CA_5A-30A-66A	Rel-14		-	-	
CA_5B-30A-66A	Rel-14		-	-	
CA_5B-30A-66A-66A	Rel-15		-	-	
CA_7A-8A-20A	Rel-12		-	-	
CA_8A-11A-28A	Rel-14	8, 11	28	11A-28A	
CA_12A-30A-66A	Rel-14		-	-	
CA_14A-30A-66A	Rel-15		-	-	
CA_14A-30A-66A-	Rel-15				
66A			-	-	
CA_19A-21A-42A	Rel-14		-	-	
CA_19A-21A-42C	Rel-14		-	-	
CA_21A-28A-42A	Rel-14		-	-	
CA_21A-28A-42C	Rel-14		-	-	
CA_29A-46A-66A	Rel-14	66	-	29A-46A	
CA_29A-66A-66A-	Rel-15	66, 70	-	_	
70A					
CA_29A-66A-66A-	Rel-15	66, 70	-	-	
70C					
CA_29A-66A-70A	Rel-15	66, 70	-	-	
CA_29A-66A-70C	Rel-15	66, 70	-	-	
CA_29A-66C-70A	Rel-15	66, 70	-	-	
CA_29A-66C-70C	Rel-15	66, 70	-	-	
CA_66A-66A-70A-	Rel-15		-	-	
71A					
CA_66A-66A-70C-	Rel-15		-	-	
71A					
CA_66A-70A-71A	Rel-15		-	-	
CA_66A-70C-71A	Rel-15		-	-	
CA_66C-70A-71A	Rel-15		-	-	
CA_66C-70C-71A	Rel-15		-	-	

- Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2a, e.g. 'CA_1A-3A-19A' indicates CA operation on E-UTRA bands 1, 3 and 19, each with CA Bandwidth class A.
- Note 2: The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-2a. The UE shall also indicate in which bands is UL supported. For this release of specification valid choices are 'N', 'XA-YA' etc, where X,Y,Z are the bands. For example, for UL support in B1+B3, and B3+B19, for CA_1A-3A-19A, UE shall indicate '1A-3A', '3A-19A',
- Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2a.
- Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
- Note 5: Fallback Bands Exceptions column is used for the FALLBACK() operator in "Tested Band Selection Criteria" (Table 4.1-1b). FALLBACK(A.4.6.3-4) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions:
 - 1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
 - 2. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column
 - 3. Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration
- Note 6: Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators in "Tested CA Configurations Criteria" (Table 4.1-1c). FALLBACK(A.4.6.3-4) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions:
 - 1. Fallback CA Configuration is not listed in "Fallback CA Configurations Exceptions"
 - 2. UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column
 - 3. Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.
- Note 7: UL(A.4.6.3-4) shall return all supported CA Configurations where at least one >1 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL"

 UL_2CC(A.4.6.3-4) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".

 UL_3CC(A.4.6.3-4) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
- Note 8: The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception.
- Note 9: List all the CA Combination bands where UL is supported.
- Note 10: The UE supplier shall indicate the frequency bands where 4 layer spatial multiplexing is supported in the supported CA Configurations.

Table A.4.6.3-5: Supported CA configurations for Inter-band CA (four bands)

E-UTRA CA configuration / Item (Note 1)	Release	Supported	CA Bandwidth Class(es) in UL	Supported UL Bands (Note 9)	Supported Bandwidth Combination Set(s) (Note 3)	Fallback Bands Exception (Note 5,8)	Fallback CA configurations Exceptions (Note 6,8)	Supported band(s) for 4 layer spatial multiplexing
			(Note 2,7)					(Note 10)
CA_1A-3A-7A-8A	Rel-13					-	-	
CA_1A-3A-7A-20A	Rel-14					-	-	-
CA_1A-3A-7A-32A	Rel-15							
CA_1A-3A-8A-40A	Rel-13					-	-	
CA_1A-3A-19A-21A	Rel-14					-	-	
CA_1A-3A-19A-42A	Rel-13 (1UL) Rel-14 (2UL)					-	-	
CA_1A-3A-19A-42C	Rel-13					-	-	
	(1UL) Rel-14 (2UL)							
CA_1A-3A-21A-28A	Rel-14					-	-	
CA_1A-3A-21A-42A	Rel-14					-	-	
CA_1A-3A-21A-42C	Rel-14					-	-	
CA_1A-3A-28A-42A	Rel-14					-	-	
CA_1A-3A-28A-42C	Rel-14					-	-	
CA_1A-19A-21A- 42A	Rel-13 (1UL) Rel-14 (2UL)					-	-	
CA_1A-19A-21A- 42C	Rel-13					-	-	
CA_1A-21A-28A- 42A	Rel-14					-	-	
CA_1A-21A-28A- 42C	Rel-14					-	-	
CA_2A-4A-5A-12A	Rel-13					-	-	
CA_2A-4A-5A-29A	Rel-13					-	-	
CA_2A-4A-5A-30A	Rel-13					-	-	
CA_2A-4A-7A-12A	Rel-13					-	-	
CA_2A-4A-12A-30A	Rel-13					-	-	
CA_2A-4A-29A-30A	Rel-13					-	-	
CA_2A-5A-30A-66A	Rel-14					-	-	
CA_2A-5B-30A-66A	Rel-14					-	-	
CA_2A-12A-30A- 66A	Rel-14					-	-	
CA_2A-14A-30A- 66A	Rel-15					-	-	
CA_3A-7A-20A-32A	Rel-14					-	-	
CA_3A-19A-21A- 42A	Rel-14					-	-	

- Note 1: Notation used for intra-band contiguous CA Bands is according to TS 36.101 [2] Table 5.6A.1-2b, e.g. 'CA_1A-3A-19A-42A' indicates CA operation on E-UTRA bands 1, 3, 19 and 42, each with CA Bandwidth class A.
- Note 2: The UL CA capabilities as per Table A.4.6-2 can be supported on a single or multiple CA Band(s). The UE supplier shall indicate all supported UL CA Bandwidth Class(es), in uplink of the supported CA Band(s), as per TS 36.101 [2] Table 5.6A.1-2b. The UE shall also indicate in which bands is UL supported. For this release of specification valid choices are 'N', 'XA-YA' etc, where X,Y,Z are the bands. For example, for UL support in B1+B3, and B3+B19, for CA_1A-3A-19A-42A, UE shall indicate '1A-3A','3A-19A',
- Note 3: The UE supplier shall indicate the supported Bandwidth Combination Set(s) as per TS 36.101 [2] Table 5.6A.1-2b.
- Note 4: Reference to all items is 36.101, 5.6A and 36.331, 6.3.6
- Note 5: Fallback Bands Exceptions column is used for the FALLBACK() operator in "Tested Band Selection Criteria" (Table 4.1-1b). FALLBACK(A.4.6.3-4) shall return a set of all fallback bands of the supported CA Configurations, i.e. a union of bands included in each CA Configuration, derived according to Table A.4.1-2, with the following additional conditions:
 - 1. Band is not listed in the Fallback Band Exceptions for the considered CA Configuration
 - 2. UL is supported in the band for the considered CA Configuration, according to Supported UL Bands Column
 - 3. Maximum allowed channel BW in the band is included in at least one of the supported Bandwidth Combination Sets supported by the considered CA Configuration
- Note 6: Fallback CA configurations Exceptions column is used for the FALLBACK() and FALLBACK_UL() operators in "Tested CA Configurations Criteria" (Table 4.1-1c). FALLBACK(A.4.6.3-4) shall return a set of all fallback CA Configurations of supported CA Configurations, derived according to Table A.4.1-2, with the following additional conditions:
 - 4. Fallback CA Configuration is not listed in "Fallback CA Configurations Exceptions"
 - UL is supported in each Fallback CA Configuration band that is not downlink-only, according to Supported UL Bands Column
 - 6. Maximum allowed channel BW in each Fallback CA Configuration band is included in at least one of the supported CA Configuration Bandwidth Combination Sets.
- Note 7: UL(A.4.6.3-4) shall return all supported CA Configurations where at least one >1 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL"

 UL_2CC(A.4.6.3-4) shall return all supported CA Configurations where at least one 2 Carrier UL CA Bandwidth Class was declared in column "Supported CA Bandwidth Class(es) in UL".

 UL_3CC(A.4.6.3-4) shall return all supported CA Configurations where at least one 3 Carrier UL CA Bandwidth Class was declared.
- Note 8: The exceptions columns are pre-filled, please do not fill out. Exceptions are possible if there are big differences between CA Configuration and Fallback CA Configuration/band definitions. For example, CA_18A-28A uses only a part of B28, so 28 will be listed as an exception.
- Note 9: List all the CA Combination bands where UL is supported.
- Note 10: The UE supplier shall indicate the frequency bands where 4 layer spatial multiplexing is supported in the supported CA Configurations.

A.4.7 Category M1 UE Centre Frequency Implementation

bands

Table A.4.7-1: Category M1 UE Centre Frequency Implementation

Band	UE impleme Centre Frequ	
	Centre of Channel bandwidth	Centre of narrowband
1		
2		
3		
4		
5		
7		
8		
11		
12		
13		
18		
19		
20		
21		
26		
27		
28		·
31		·
39		
41		
Note 1:	UE vendor updates one of the two	columns across all supported

Annex B (informative): Change history

Date	TSG #	TSG Doc.	CR	Rev		Old	New
2008-03 2008-06			1		Skeleton proposed for RAN5#38 Malaga Updated after RAN5#39bis:	0.0.1	0.0.1
2008-06					- Editorial update and alignment with 36.523-2	0.0.1	0.1.0
					- TC included in 36.521-1 and 36.521-3 included		
					- Some Conditions for TC selections introduce		
2008-08					Updated after RAN5#40:	0.1.1	0.2.0
					- Editorial update in regard to changing spec names, etc FDD and TDD split (R5-083839)		
					- RRM TC numbers aligned with 36.521-3 v030		
2008-10					Update after RAN5#40bis:	0.2.0	0.3.0
					- Table split in different clauses for Conformance and RRM		
					test cases		
					- Extension of applicability tables to include Additional information column		
					- Change of applicability of TCs that apply to any E-UTRA		
					device into "R" - recommended		
					- Updated TCs in accordance to 36.521-1 v110 and 36.521-3		
					v040		
2000 44					- Some editorial updates	0.0.0	2.0.0
2008-11					Update After RAN5#41 (R5-055360): - Renamed 8.1.1, added new 8.1.2,	0.3.0	2.0.0
					- Added new TCs to RRM section Measurement		
					Performance Requirements		
					- Added Table A.4.3-2 with reference to test loop functions in		
					36.509 - Some editorial changes		
					- Normative References updated		
					- Change RRM TC titles to reflect their applicability to FDD		
					only		
2008-12	RAN#42	RP-080970			Approval of version 2.0.0 at RAN#42, then put to version	2.0.0	8.0.0
2008-01			-		8.0.0. Editorial corrections.	8.0.0	8.0.1
2009-05	RAN#44	RP-090448	0001			8.0.1	8.1.0
		000110			test cases	0.0	01110
2009-05	RAN#44	RP-090448	0002		LTE-RF: Applicability for Output Power Dynamics test cases	8.0.1	8.1.0
2009-09	RAN#45	R5-094035	0003	-	Correction CR to 36.521-2: Applicability changes to	8.1.0	8.2.0
2009-09	RAN#45	R5-094572	0004		introduce additional RRM tests Applicability for Output Power Dynamics test cases	8.1.0	8.2.0
2009-09	RAN#45	R5-094710	0004	-	Resubmission-Correction CR to 36.521-2: Applicability	8.1.0	8.2.0
					changes to introduce additional RRM tests		
2009-09	RAN#45	R5-094768	0006	-	Update of RRM Conformance test applicability for SON	8.1.0	8.2.0
2009-09	RAN#45	R5-094999	0007	-	Correction CR to 36.521-2: Applicability changes to RF	8.1.0	8.2.0
2009-12	RAN#46	R5-095519	0008		PDSCH Demodulation tests Correction CR to 36.521-2: Applicability changes to update	8.2.0	8.3.0
2009-12	IXAN#40	K3-093319	0008		the Demodulation of PDSCH (FDD) tests based on the CR	0.2.0	0.3.0
					merge results from RAN5#44		
2009-12	RAN#46	R5-095778	0009		Update of RRM Conformance test applicability for RLM in	8.2.0	8.3.0
2009-12	RAN#46	R5-095841	0010		DRX test cases CR to 36.521-2: Applicability additions for new RRM (FDD)	8.2.0	8.3.0
2009-12	KAN#40	K3-093641	0010	-	tests	0.2.0	0.3.0
2010-03	RAN#47	R5-100358	0011	-	CR to 36.521-2 Rel-8 Introduction of Applicability for E-	8.3.0	8.4.0
					UTRAN FDD - FDD Intra Frequency Cell Search with DRX		
	D 4 4 4 4 4 5	D= (00=0)	2212		when L3 filtering is used		
2010-03	RAN#47	R5-100561	0012	-	CR to 36.521-2: Update baseline implementation capabilities with extended LTE1500 operating bands	8.3.0	8.4.0
2010-03	RAN#47	R5-100872	0013	_	CSI: Following up corrections to tests titles and RI clause	8.3.0	8.4.0
2010 00	10/01/11/11	100072	0010		structure	0.0.0	0.4.0
2010-03	RAN#47	-	-	-	Moved to v9.0.0 with no change	8.4.0	9.0.0
2010-06	RAN#48	R5-103147	0014	-	Adding band 20, 800MHZ in EU to TS36.521-2	9.0.0	9.1.0
2010-06	RAN#48	R5-103757	0015	-	Introduction of feature group indicator in applicability for	9.0.0	9.1.0
2010-09	RAN#49	R5-104246	0017	 	RRM test cases CR to 36.521-2 on Correction to cell search	9.1.0	9.2.0
2010-09	RAN#49	R5-104246	0017	<u> </u> -	Addition of applicability for new RRM test cases	9.1.0	9.2.0
2010-09	RAN#49	R5-104372	0019	-	Update of Applicability for Demodulation test cases and UE	9.1.0	9.2.0
					implementation Types for UTRA TDD		
2010-09	RAN#49	R5-104840	0020	-	36521-2 General update to add-remove TCs applicability	9.1.0	9.2.0
2010.00	DANH40	DE 105050	0024	<u> </u>	correct, TC titles and numbers and editorials	0.4.0	0.2.0
2010-09	RAN#49	R5-105056	0021	-	Applicability of a new Rel-9 downlink sustained data rate performance test cases	9.1.0	9.2.0
2010-12	RAN#50	R5-106118	0022	-	· ·	9.2.0	9.3.0
			<u></u>		for EUTRA TDD LTE band 41		
2011-03	RAN#51	R5-110536	0023	-	Defining new bands 42 and 43 (3500MHz)	9.3.0	9.4.0
2011-03	RAN#51	R5-110955	0024	-	CR to 36.521-2: General update to add, remove, and correct	9.3.0	9.4.0
Ī					applicability of RRM TCs		

Date	TSG #	TSG Doc.	CR	Rev	•	Old	New
2011-06	RAN#52	R5-112131	0025	-	Correction to Band 12 frequency range in 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112212	0026	-	Adding Band 24 to TS 36.521-2	9.4.0	9.5.0
2011-06	RAN#52	R5-112378	0027	-	Update of FGI bit definitions for rel-9	9.4.0	9.5.0
2011-06	RAN#52	R5-112821	0028	-	Add release applicability for spatial multiplexing test cases	9.4.0	9.5.0
2011-06	RAN#52	R5-112857	0029	-	Addition of applicability for new RRM test cases 4.3.4.3 and 8.4.3	9.4.0	9.5.0
2011-06	RAN#52	R5-112865	0030	-	Addition of applicability for new MBMS test cases 10.1 and 10.2	9.4.0	9.5.0
2011-09	RAN#53	R5-113306	0031	-	Adding band 25 to TS36.521-2	9.5.0	9.6.0
2011-09	RAN#53	R5-113625	0033	-	Introduction of applicability of Rel-9 Scenarios	9.5.0	9.6.0
2011-09	RAN#53	R5-113626	0034	_	Introduction of applicability of PDSCH performance tests for low UE categories	9.5.0	9.6.0
2011-09	RAN#53	R5-114025	0035	-	Test Cases 6.2.3 and 6.2.4 Applicability Clarification	9.5.0	9.6.0
2011-09	RAN#53	R5-114070	0036	_	Update baseline implementation capabilities for FDD LTE Band 23 in 36.521-2	9.5.0	9.6.0
2011-09	RAN#53	R5-114074	0037	-	Applicability for new R9 RRM test cases	9.5.0	9.6.0
2011-09	RAN#53	R5-114096	0038	-	Missing FGIs in RRM Test Case Applicabilities in 36.521-2	9.5.0	9.6.0
2011-12	RAN#54	R5-115128	0039	-	Correction the content of A.4.4-1_16 in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115134	0040	-	Correction to the test case condition of C12 in 3GPP TS 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115186	0041	-	Adding band 22 (3500MHz FDD) to 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115785	0042	-	Requirement change in UE spurious emissions for Band 7	9.6.0	9.7.0
				L	and 38 co-existence (Rel-8 only)	L	L
2011-12	RAN#54	R5-115422	0043	<u>_</u>	Update of FGI bit table in 36.521-2	9.6.0	9.7.0
2011-12	RAN#54	R5-115813	0044	-	RF: Update of the applicability list	9.6.0	9.7.0
2011-12	RAN#54	-	-	-	Moved to Rel-10 with no change	9.7.0	10.0.0
2012-03	RAN#55	R5-120340	0046	-	Addition of FGI bit 16 into test cases 9.1.x.x and 9.2.x.x	10.0.0	10.1.0
2012-03	RAN#55	R5-120534	0047	-	Introduction to Applicability for RSRQ for E-UTRA Carrier Aggregation	10.0.0	10.1.0
2012-03	RAN#55	R5-120596	0048	-	Updates to applicability for newly introduced CA feature chapter8 test cases in 36.521-2	10.0.0	10.1.0
2012-03	RAN#55	R5-120811	0049	-	Correction to FGI bits in test case 8.5.2	10.0.0	10.1.0
2012-03	RAN#55	R5-120812	0050	-	Addition of FGI bit 15 into test cases configuring event 1B	10.0.0	10.1.0
2012-03	RAN#55	R5-120832	0051	-	Update of FGI bit table in TS36.521-2		10.1.0
2012-03	RAN#55	R5-120836	0052	-	Introduction to CA Applicability for Transmitter Characteristics tests MPR and ACLR	10.0.0	10.1.0
2012-03	RAN#55	R5-120838	0053	-	RF/RRM: Applicability for new added RRM test cases	10.0.0	10.1.0
2012-03	RAN#55	R5-120840	0054	-	Applicability for new UL MIMO test case	10.0.0	10.1.0
2012-06	RAN#56	R5-121185	0055	-	Updates to applicability for newly introduced CA feature TDD chapter 8 test cases in 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121219	0056	-	Adding operating band 26 to TS 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121904	0057	-	Addition of applicability for E-UTRAN Inter frequency case		10.2.0
					reselection in the existence of non-allowed CSG cell		
2012-06	RAN#56	R5-121965	0058	-	Applicability for new UL MIMO test cases	10.1.0	10.2.0
2012-06	RAN#56	R5-121966	0059	-	Updates to applicability for Transmit timing tests in 36.521-2	10.1.0	10.2.0
2012-06	RAN#56	R5-121967	0060	-	Applicability for new R9 RRM test cases	10.1.0	10.2.0
2012-06	RAN#56	R5-121990	0061	-	Addition of applicability for CA TCs	10.1.0	10.2.0
2012-09	RAN#57	R5-123093	0062	-	Updates to applicability for Chapter9 absolute and relative RSRP measurement test cases for carrier aggregation.	10.2.0	10.3.0
2012-09	RAN#57	R5-123165	0063	-	Introduction of Applicability for E-UTRAN Event Triggered reporting on deactivated SCell with PCell interruption in non-	10.2.0	10.3.0
2012-09	RAN#57	R5-123169	0064	-	DRX for CA Correction to Applicability for RSRQ for E-UTRA Carrier	10.2.0	10.3.0
2012.00	DANHEZ	DE 100170	0065	<u> </u>	Aggregation	10.2.0	10.2.0
2012-09	RAN#57 RAN#57	R5-123170	0065 0066	-	Introduction of eDL MIMO to UE service capabilities		10.3.0
2012-09	RAN#57	R5-123533 R5-123542	0066	Ε	Update of References in 36.521-2 v980 (pointer) TS 36.521-2:TDD CA test cases applicability correction		10.3.0
2012-09	RAN#57	R5-123788	0067	[Clarification of the release of UTRAN-EUTRAN Inter-RAT	10.2.0	
				-	RRM test cases in 36.521-2		
2012-09	RAN#57	R5-123856	0069	-	Applicability for new RRM test cases		10.3.0
2012-09	RAN#57	R5-123858	0070	-	Introduction of Applicability for ACS for CA and UE config Tx output power for CA	10.2.0	
2012-09	RAN#57	R5-123909	0071	-	TS 36.521-2:New UE categories addition		10.3.0
2012-09	RAN#57	R5-123942	0072	-	Applicability update for test cases in TS36.521-1 with single BW requirements not defined for all operating bands, rel-8		10.3.0
2012-09	RAN#57	R5-123993	0073	-	Update applicability of UL-MIMO related conformance test cases	10.2.0	10.3.0
2012-09	RAN#57	R5-123997	0074	-	TS 36.521-2:Applicability for new CQI test cases	10.2.0	10.3.0
2012-12	RAN#58	R5-125251	0075	-	Removing FGI bit 5 from section four RRM test cases		10.4.0
2012-12	RAN#58	R5-125390	0076	-	Adding bands 28 and 44 to TS36.521-2		10.4.0
2012-12	RAN#58	R5-125821	0077	-	Correction to Additional Information for RRM 4.3.4.3		10.4.0
2012-12	RAN#58	R5-125833	0078		Introduction of Band 27 to TS 36.521-2	10.3.0	10.4.0

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2012-12	RAN#58	R5-125836	0079	-	Update applicability of UL-MIMO related conformance test		10.4.0
					cases		
2012-12	RAN#58	R5-125920	0800	-	Applicability removal of RRM TC8.12.1		10.4.0
2012-12	RAN#58	R5-126049	0081	-	Updates to the applicability of CA RF Tx tests		10.4.0
2012-12	RAN#58	R5-124138	0082	-	Updates to the applicability of CA RF Performance tests		10.4.0
2012-12	RAN#58	R5-124168	0083	-	Updates to the applicability of CA RF Rx tests		10.4.0
2012-12 2013-03	RAN#58 RAN#59	R5-124169 R5-130177	0084 0085	-	Applicability for new RRM CA related TCs Introduction of new rel-10 Reporting of RI test cases into		10.4.0
2013-03	IXAIN#39	K3-130177	0003	-	applicability specification	10.4.0	10.5.0
2013-03	RAN#59	R5-130297	0086	l	Introduction of eDL-MIMO applicability	10 4 0	10.5.0
2013-03	RAN#59	R5-130306	0087	-	Updates to applicability for newly introduced eICIC feature		10.5.0
20.00		1.0 .0000			chapter9 RRM test cases		
2013-03	RAN#59	R5-130445	0090	-	Correction to CA physical layer implementation capabilities	10.4.0	10.5.0
2013-03	RAN#59	R5-130464	0091	-	Correction of FGI bit 8 in 36.521-2	10.4.0	10.5.0
2013-03	RAN#59	R5-130802	0092	-	Addition of applicability for RRM TCs 9.1.7.1 and 9.1.7.2	10.4.0	10.5.0
2013-03	RAN#59	R5-130807	0093	-	Applicability correction to Spurious emission band UE co-	10.4.0	10.5.0
					existence(36.521-2)		
2013-03	RAN#59	R5-130997	0098	-	Addition of applicability statement for 6 new eICIC test cases		10.5.0
2013-03	RAN#59	R5-130375	8800	-	Updates to CA physical layer baseline implementation	10.5.0	11.0.0
2212.22	D 441/// - 0	D= 1000=0			capabilities for CA band 7		
2013-03	RAN#59	R5-130379	0089	-	Updates to CA physical layer baseline implementation	10.5.0	11.0.0
2042.02	RAN#59	DE 420027	0004	<u> </u>	capabilities for CA band 41	40.5.0	44.0.0
2013-03	RAN#59	R5-130927	0094	-	Updates on the supported CA configurations for CA_38,	10.5.0	11.0.0
2013-03	RAN#59	R5-130928	0095		CA_3-7 and CA_7-20 Addition of CA physical layer implementation capabilities for	10.5.0	11.0.0
2013-03	KAN#39	K3-130926	0095	-	CA_4-5 and CA_4-13	10.5.0	11.0.0
2013-03	RAN#59	R5-130929	0096	-		10.5.0	11 0 0
2010 00	10 11 11/00	1000020	0000		29	10.0.0	11.0.0
2013-03	RAN#59	R5-130930	0097	-	CA_2-17 and CA_4-17 addition to supported capabilities in	10.5.0	11.0.0
					36.521-2		
2013-06	RAN#60	R5-131155	0100	-	Introduction of new rel-11 Reporting of RI test cases into	11.0.0	11.1.0
					applicability specification		
2013-06	RAN#60	R5-131159	0101	-	Introduction of Maximum Input Level test case for CA (inter-	11.0.0	11.1.0
					band DL CA without UL CA) into applicability specification		
2013-06	RAN#60	R5-131212	0102	-	Correction of applicability conditions for TC 8.2.1.1.1_1: TC	11.0.0	11.1.0
2010.00	D 4 1 1 1 0 0	DE 404444	0400		8.2.1.2.1_1 and TC 8.3.2.1.1_1 in 36.521-2	44.0.0	44.4.0
2013-06	RAN#60	R5-131444	0103	-	Addition of applicability for Configured UE transmitted Output	11.0.0	11.1.0
2013-06	RAN#60	R5-131525	0104	-	Power for inter-band CA Corrections of eDL-MIMO applicability to align with reporting	11.0.0	11.1.0
2013-00	KAIN#60	K3-131323	0104	-	of CSI	11.0.0	11.1.0
2013-06	RAN#60	R5-131712	0105	1_		11.0.0	11 1 0
2010 00	10 11 11/00	10 1017 12	0100		test cases Conditions" and Table 4.2-1a: Applicability of	11.0.0	11.1.0
					RRM conformance test cases Conditions		
2013-06	RAN#60	R5-131912	0106	-	36.521-2: Inter-band CA configurations update	11.0.0	11.1.0
2013-06	RAN#60	R5-131914	0107	-	Addition of applicability for FDD RF TCs 9.3.4.1.1, 9.3.4.2.1,	11.0.0	11.1.0
					9.4.1.2.1, 9.4.2.2.1 and TDD RF TCs 9.3.4.1.2, 9.3.4.2.2,		
					9.4.1.2.2 and 9.4.2.2.2		
2013-06	RAN#60	R5-131927	0108	-	Updates to applicability for newly introduced eICIC feature	11.0.0	11.1.0
					chapter9 RRM test cases in 36.521-2		
2013-06	RAN#60	R5-132013	0109	-	36.521-2 specification clean up		11.1.0
2013-06	RAN#60	R5-132015	0110	-	Update of FGI tables in TS 36.521-2		11.1.0
2013-06	RAN#60	R5-132111	0111	-	Removal of Spurious emission UE co-existence test case 6.6.3.2 1 from 36.521-2	11.0.0	11.1.0
2013-09	RAN#61	R5-133125	0112		editorial correction for RRM test case Condition C46	11 1 0	11 2 0
2013-09	RAN#61	R5-133143	0113	-	Addition of applicability for test cases 7.3.13 and 7.3.15		11.2.0 11.2.0
2013-09	RAN#61	R5-133143	0113	ŧ-	Addition of Band 31 to 36.521-2		11.2.0
2013-09	RAN#61	R5-133251	0115	[Applicability for new CA TCs for 20MHz		11.2.0
2013-09	RAN#61	R5-133347	0116	-	elCIC RRM: Applicability for some new added elCIC test		11.2.0
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2013-09	RAN#61	R5-133350	0117	-	CA RF: Applicability for some new added CA test cases	11.1.0	11.2.0
2013-09	RAN#61	R5-133403	0118	-	CA RRM: Corrections to applicability of CA RRM TC-s		11.2.0
2013-09	RAN#61	R5-133816	0119	-	Update applicability of test cases required to support		11.2.0
	<u></u>	<u> </u>	<u></u>		PUSCH 2-2	<u></u>	<u> </u>
2013-09	RAN#61	R5-133825	0120	-	eICIC RF: Applicability for some new added eICIC test cases		11.2.0
2013-09	RAN#61	R5-133827	0121	-	Correction to applicability of TC 8.3.2.1.2, 8.3.2.1.3 and	11.1.0	11.2.0
		1	ļ		8.3.2.2.1		
2013-09	RAN#61	R5-133839	0122	-	Correction of applicability for FDD RF TCs 9.3.4.1.1,	11.1.0	11.2.0
					9.3.4.2.1 & 9.4.1.2.1and TDD RF TCs 9.3.4.1.2, 9.3.4.2.2 &		
2042.22	D V V 1404	DE 400040	0400		9.4.1.2.2	11 1 2	11 0 0
2013-09	RAN#61	R5-133840	0123	-	Addition of applicabilities for inter-freq/RAT without measurement gaps TCs	11.1.0	11.2.0
2013-09	RAN#61	R5-133841	0124	<u> </u>	Correction to the reference information of chapter 2.	11 1 0	11.2.0
2013-09	RAN#61	R5-133849	0125	-	RRM: Update of applicability of some test cases		11.2.0
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2013-09	RAN#61	R5-133868	0126	-	Addition of UE capability information Bandwidth Combination Set for Carrier Aggregation in ICS proforma tables	11.1.0	11.2.0
2013-09	RAN#61	R5-133872	0127	-	Update RF performance test applicability table for LTE B14 public safety high power UE	11.1.0	11.2.0
2013-09	RAN#61	R5-133875	0128	-	Addition of applicability for new TCs 8.3.1.1.3 and 8.3.2.1.4	11.1.0	11.2.0
2013-09	RAN#61	R5-133891	0129	1-	Applicability addition for CA test cases		11.2.0
2013-09	RAN#61	R5-133897	0130	-	Addition of the applicability of TC7.3.14 & TC7.3.16	11.1.0	
2013-12	RAN#62	R5-134129	0131	-	RRM: Corrections of applicability of some test cases	11.2.0	11.3.0
2013-12	RAN#62	R5-134164	0132	_	Introduction of UE TM3 Demodulation Performance under High Speed Applicability	11.2.0	
2013-12	RAN#62	R5-134281	0134	_	Addition of applicability for Sustained data rate test(FDD) for category 6 and 7 UEs	11.2.0	11.3.0
2013-12	RAN#62	R5-134285	0135	-	Removal of 6.2.5A.2 from applicability table	11.2.0	11.3.0
2013-12	RAN#62	110 10 1200	0.00		Correction to applicabilities for inter-freq/RAT without	11.2.0	11.3.0
		R5-134293	0136	-	measurement gaps TCs		
2013-12	RAN#62	R5-134315	0137	-	Removal of comma separated conditions	11.2.0	11.3.0
2013-12	RAN#62	R5-134883	0138	-	Addition of applicability for new TCs 7.4A.4 and 7.5A.4	11.2.0	11.3.0
2013-12	RAN#62	R5-134893	0142	-	Addition of applicabilities of LTE Type A performance requirements	11.2.0	11.3.0
2013-12	RAN#62	R5-134895	0139	_	Removal of redundant not applicable to any device tests from applicability table	11.2.0	11.3.0
2013-12	RAN#62	R5-134279	0133	_	Addition of Rel-12 CA band combinations(CA_3-19 and CA_19-21) to Table A.4.6.3-3	11.3.0	12.0.0
2013-12	RAN#62	R5-135011	0133	1-	Updates of Table A.4.6.3-3 for CA 1A-26A	11.3.0	12.0.0
2013-12	RAN#62	R5-135032	0140	1-	Applicability for new RRM test cases for 5MHz bandwidth		12.0.0
2014-03	RAN#63	R5-140390	0143	-	LTE Type A performance requirements - Adding a new test case 9.3.5.1.2	12.0.0	12.1.0
2014-03	RAN#63	R5-140426	0144	-	Updates to Intra-band non-contiguous CA applicability	12.0.0	12.1.0
2014-03	RAN#63	R5-140526	0145	1-	Addition of applicability for TC 8.2.2.2.4 and TC 8.2.2.4.3	12.0.0	
2014-03	RAN#63	R5-140808	0146	1-	Correction the applicability for test case 8.2.1.3.2.		12.1.0
2014-03	RAN#63	R5-140809	0147	-	Update applicability table for LTE B14 public safety high power UE test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140817	0148	-	Applicability for new DL CoMP test cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140870	0150	1-	Corrections the applicability of test cases 8.16.3 and 8.16.4	12.0.0	
2014-03	RAN#63	R5-140871	0151	-	Correcting applicability in 8.2.2.1.1_1 and 8.2.2.2.1_1 for UE categories 1 and/or 2		12.1.0
2014-03	RAN#63	R5-140897	0152	-	Addition of Applicability for EPDCCH New Test Cases	12.0.0	12.1.0
2014-03	RAN#63	R5-140923	0153	1-	Introduction of UE CA Inter-band uplink capabilities	12.0.0	
2014-03	RAN#63	R5-141020	0154	-	Addition of test applicability of WB-RSRQ measurement	12.0.0	
2014-03	RAN#63	R5-141035	0155	-	Applicability for new CA RRM TCs 7.1.3+7.1.4	12.0.0	12.1.0
2014-06	RAN#64	R5-142113	0157	-	Addition of CA 3A-28A to 36.521-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142337	0158	-	Applicability update for CA band Combo CA_2A-13A	12.1.0	12.2.0
2014-06	RAN#64	R5-142345	0159	-	Addition of CA band combination CA_39A-41A to Table A.4.6.3-3 in TS 36.521-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142347	0160	-		12.1.0	12.2.0
2014-06	RAN#64	R5-142583	0161	-	Update of FGI definitions in TS 36.521-2	12.1.0	12.2.0
2014-06	RAN#64	R5-142674	0162	-	Definition correction to UL and DL category tables		12.2.0
2014-06	RAN#64	R5-142772	0163	-	Addition of CA_2A-4A and CA_5A-7A to 36.521-2 Annex A4		12.2.0
2014-06	RAN#64	R5-142782	0164	-	Introduction of TC 7.6.xA.4 and 7.7A.4 applicabilities		12.2.0
2014-06	RAN#64	R5-142799	0165	-	Addition of applicability for TC 6.6.3B.2		12.2.0
2014-06 2014-06	RAN#64	R5-143000	0166 0167	-	Conditions C19, C20, C21 Addition of RF test cases applicability for eICIC		12.2.0
2014-06	RAN#64 RAN#64	R5-143016 R5-143017	0167	ŧ	Addition of RRM test cases applicability for eICIC		12.2.0 12.2.0
2014-06	RAN#64	R5-143028	0169	-	LTE Type A performance requirements - Adding test case 8.2.1.4.3		12.2.0
2014-06	RAN#64	R5-143030	0170	+	Condition C43	12 1 0	12.2.0
2014-06	RAN#64	R5-143053	0171	-	Correction to the applicability of the test case 7.6.2A.3 and		12.2.0
2014-06	RAN#64	R5-143054	0172	 	7.7A.3. Correction of the condition of test case 8.7.1.1	12 1 0	12.2.0
2014-06	RAN#64	R5-143055	0173	-	Correction of the condition of the test cases 8.2.1.1.1_A.2,		12.2.0
2014-06	RAN#64	R5-143056	0174	-	8.2.1.3.1_A.1, 8.2.1.3.1_A.2 and 8.2.1.4.2_A.2 Correction of the condition for the test cases 8.2.1.1.1_A.1,	12.1.0	12.2.0
2014-06	RAN#64	R5-143060	0175	-	8.2.1.4.2_A.1 and 8.2.2.1.1_A.1 Introduction of felCIC applicability statement for CSI test	12.1.0	12.2.0
2014-06	RAN#64	R5-143061	0176	-	Introduction of felCIC applicability statement for RRM test	12.1.0	12.2.0
2014-06	RAN#64	R5-143078	0177	-	Cases Applicability for new CoMP TDD TCs		12.2.0
2014-06	RAN#64	R5-143083	0178	-	Addition of applicability for newly added RRM test cases		12.2.0
2014-06	RAN#64	R5-143084	0179	-	Addition of CA_27B related information into A.4.6 in TS 36.521-2		12.2.0
2014-06	RAN#64	R5-143119	0180	-	Update of applicability for EPDCCH test cases		12.2.0
2014-06	RAN#64	R5-143145	0181	i	Condition on no UL CA in C20 and C21	11210	12.2.0

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2014-06	RAN#64	R5-143215	0182	-	Addition of applicability for new TM3, soft buffer management and SDR test cases	12.1.0	12.2.0
2014-09	RAN#65	R5-144109	0183	-	Introduction of felCIC applicability statement for Performance test cases (resubmission of R5-143075 not implemented)	12.2.0	12.3.0
2014-09	RAN#65	R5-144121	0184	-	Corrections to felCIC applicability statement for CSI test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144200	0185	-	Applicability for newly added 5MHz+5 MHz and 10MHz+5MHz BW RRM test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144245	0186	-	Corrections to applicability conditions for RRM test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144329	0187	-	Update of FGI definitions in TS 36.521-2	12.2.0	12.3.0
2014-09	RAN#65	R5-144449	0188	-	Applicability update for CA band Combo CA_7A-28A	12.2.0	12.3.0
2014-09	RAN#65	R5-144484	0189	-	Update Tx intra-band contiguous DL CA without UL CA TCs applicability to include BW Class B		12.3.0
2014-09	RAN#65	R5-144504	0190	-	New CA band combination CA_NC_42 and CA_4-27-Update to 36.521-2		12.3.0
2014-09	RAN#65	R5-144512	0191	-	Addition of applicability for CA band combo CA_2A-5A		12.3.0
2014-09 2014-09	RAN#65 RAN#65	R5-144800 R5-144837	0192 0193	-	Correction to RF Baseline capabilities with Band 29 Update test applicability for intra band non-contiguous CA test cases	12.2.0	12.3.0 12.3.0
2014-09	RAN#65	R5-144848	0194	-	Update test applicability for inter band and intra band contiguous CA test cases	12.2.0	12.3.0
2014-09	RAN#65	R5-144849	0195	-	Addition of CA_2A-2A to 36.521-2 Annex A4	12.2.0	12.3.0
2014-09	RAN#65	R5-144864	0202	-	Addition of operating band 30 to TS36.521-2		12.3.0
2014-09	RAN#65	R5-144871	0196	-	Correction to Merge UE category tables	12.2.0	12.3.0
2014-09	RAN#65	R5-144877	0197	-	CA: Review of CA capabilities tables	12.2.0	
2014-09	RAN#65	R5-144878	0198	-	Addition of applicability for newly added performance test cases	12.2.0	
2014-09	RAN#65	R5-144911	0199	-	Update applicabilities for serving cell RSRP and RSRQ absolute accuracy TCs		12.3.0
2014-09	RAN#65	R5-144919	0200	-	Update the applicability conditions for TCs 8.8.2.1 and 8.8.2.2	12.2.0	
2014-09	RAN#65	R5-144921	0201	-	Addition of applicability for SDR test case 8.7.1.1_A.3		12.3.0
2014-12 2014-12	RAN#66 RAN#66	R5-145017 R5-145180	0202	-	Correction to 6.7A title number New CA band combination CA_1A-3A - Updates of Table		12.4.0 12.4.0
2014-12	IXAIN#00	113-143100	0203	_	A.4.6.3-3	12.5.0	12.4.0
2014-12	RAN#66	R5-145226	0204	-	Introduction of CA_42C into TS36.521-2	12.3.0	12.4.0
2014-12	RAN#66	R5-145244	0205	-	New CA band combination CA_41-42 update to 36.521-2 section A.4.6.3	12.3.0	
2014-12	RAN#66	R5-145262	0206	-	Applicability table update for RRM CA test cases in clause 8 and 9 to avoid redundant testing	12.3.0	
2014-12	RAN#66	R5-145359	0207	-	Addition of applicability for TCs of activation and deactivation of known SCell		
2014-12	RAN#66	R5-145361	0208	-	Removing SDR test applicability for Rel-11 and 12 interband CA		12.4.0
2014-12	RAN#66	R5-145396	0209	-	New CA band combination CA_18A-28A - Updates of Table A.4.6.3-3	12.3.0	
2014-12	RAN#66	R5-145440	0210	-	New CA band combination 1+11 and 8+11 û Introduction of 1+11 and 8+11 to 36.521-2		12.4.0
2014-12	RAN#66	R5-145478	0211	-	Correction to felCIC applicability statement for PHICH test cases		12.4.0
2014-12	RAN#66	R5-145529	0212	-	independence	12.3.0	
2014-12	RAN#66	R5-145821	0213	-	Update of applicability statements for mandatory Rel-11 capabilities, CoMP, and more	12.3.0	
2014-12	RAN#66	R5-145822	0214	-	Update of FGI definitions in TS 36.521-2	12.3.0	
2014-12	RAN#66	R5-145823	0215	-	Updates the applicable release for soft buffer management and TDD SDR CA tests in part 2		12.4.0
2014-12	RAN#66	R5-145842	0216		Corrections to applicabilities for COMP		12.4.0
2014-12	RAN#66	R5-145869	0217	-	Applicability for FDD TC 8.2.1.1.1_A.3 and TDD TC 8.2.2.1.1_A.3+TC 8.2.2.4.2_A.3 for CA		12.4.0
2014-12	RAN#66	R5-145873	0218	-	Update to TM9 test case applicability		12.4.0
2014-12	RAN#66	R5-145905	0219	-	Applicability for newly added RRM TCs for testing of SCell in sTAG	12.3.0	
2014-12	RAN#66	R5-145981	0220	-	Update to Additional information section to handle IMSVoIP not supported in 36.521-2	12.3.0	
2015-03	RAN#67	R5-150298 R5-150304	0221	-	Introduction of CA_1A-7A to TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67		0222	ļ <u>-</u>	Corrections to title of RRM test case 8.7.1 in applicability table		
2015-03 2015-03	RAN#67 RAN#67	R5-150365 R5-150374	0223 0224	 -	CA: Corrections to CA capability tables Introduction of RF applicability for CA band combinations	12.4.0	12.5.0 12.5.0
			5 <u>_</u>		5+25 and 12+25	.2.4.0	.2.0.0

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2015-03	RAN#67	R5-150444	0225	-	New CA band combination CA_1A-28A - Updates of Table A.4.6.3-3	12.4.0	12.5.0
2015-03	RAN#67	R5-150524	0226	-	Addition of CA_1A-20A to TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150546	0227	-	Addition of 2A-12A and 5A-13A 2DL Interband CA to 36.521-	12.4.0	12.5.0
2015-03	RAN#67	R5-150558	0228	-	Applicability conditions added to TCs 9.1.12.x and 9.2.11.x	12.4.0	12.5.0
2015-03	RAN#67	R5-150564	0229	-	Addition of CA_2A-2A-13A to TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150805	0230	-	Update of FGI definitions in TS 36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150830	0231	-	Addition of CA_2-30 to Annex A.4.6 of TS 36.521-2.	12.4.0	12.5.0
2015-03	RAN#67	R5-150831	0232	-	Addition of CA_4-30 to Annex A.4.6 of TS 36.521-2.	12.4.0	12.5.0
2015-03	RAN#67	R5-150832	0233	-	Addition of CA_5-30 to Annex A.4.6 of TS 36.521-2.	12.4.0	12.5.0
2015-03	RAN#67	R5-150858	0234	-	Update of applicability statements for CoMP - TCs being split	12.4.0	12.5.0
2015-03	RAN#67	R5-150872	0235	-	Addition of applicability for 3DL CA test cases	12.4.0	
2015-03	RAN#67	R5-150876	0236	-	Addition of applicability for CA_39C in TS36.521-2	12.4.0	12.5.0
2015-03	RAN#67	R5-150882	0238	-	Addition of applicability for newly added 20MHz+10MHz RRM test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150883	0239	-	Addition of applicability for newly added RSRP accuracy RRM test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150904	0240	-	Addition of a new table for Supported CA configurations for Inter-band CA (three bands)	12.4.0	12.5.0
2015-03	RAN#67	R5-150914	0241	-	Addition of applicability for Multi-Cluster PUSCH with One Uplink Carrier test cases	12.4.0	12.5.0
2015-03	RAN#67	R5-150923	0242	-	CA demod test case variants merge in 36.521-2	12.4.0	12.5.0
2015-06	RAN#68	R5-151156	0245	-	Correction of applicability conditions for RRM test case 5.3.5 and 5.3.6	12.5.0	12.6.0
2015-06	RAN#68	R5-151164	0246	-	CA RF: Correction to condition description	12.5.0	12.6.0
2015-06	RAN#68	R5-151461	0261	-	Updates to 36.521-2 regarding merging of TDD CA test cases		12.6.0
2015-06	RAN#68	R5-151463	0262	-	Addition of applicability of TD-LTE to UTRA TDD periodic measurements	12.5.0	12.6.0
2015-06	RAN#68	R5-151509	0263	-	Introduction of applicability for test cases 9.6.1.1-A.2 and 9.6.1.2-A.2: FDD/TDD CQI Reporting under AWGN conditions – PUCCH 1-0 (3DL CA)	12.5.0	12.6.0
2015-06	RAN#68	R5-151826	0250	2	Addition and correction of applicability for TDD sustained data rate performance	12.5.0	12.6.0
2015-06	RAN#68	R5-151827	0254	1	Update applicabilities of merged TDD CA cases	12.5.0	12.6.0
2015-06	RAN#68	R5-151828	0258	2	Correction of applicability for TDD sustained data rate performance	12.5.0	12.6.0
2015-06	RAN#68	R5-151829	0268	1	Correction to PICS items referenced in C32b and C33b applicability conditions.	12.5.0	12.6.0
2015-06	RAN#68	R5-151892	0248	1	Addition of frequency E-UTRA band 32	12.5.0	12.6.0
2015-06	RAN#68	R5-151949	0259	1	Applicability update of FDD-TDD RSRP accuracy test cases for FDD-TDD CA.	12.5.0	12.6.0
2015-06	RAN#68	R5-152009	0253	1	Addition of applicability for newly added 20MHz+20MHz and 20MHz+10MHz CA RRM test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-152016	0264	1	Introduction to applicability for 2UL CA RF test cases (Tx and Rx)	12.5.0	12.6.0
2015-06	RAN#68	R5-152019	0260	1	Addition of UE category 0 ICS and test cases		12.6.0
2015-06	RAN#68	R5-152023	0251	1	Update of CA Physical Layer Baseline Implementation Capabilities for Rel-12 CA 2UL configurations	12.5.0	12.6.0
2015-06	RAN#68	R5-152029	0243	1	Introduction of Band Selection Concept and new 3DL CA Combinations to 36.521-2		12.6.0
2015-06	RAN#68	R5-152036	0255	1	Addition of applicability for newly introduced RSRP accuracy RRM test cases	12.5.0	12.6.0
2015-06	RAN#68	R5-152037	0256	1	Addition of applicability for newly added FDD CA RSRP accuracy RRM test cases		12.6.0
2015-06	RAN#68	R5-152129	0270	-	CoMP TCs applicability update		12.6.0
2015-09	RAN#69	R5-153062	0271	<u> -</u>	Introduction of LTE eDL_MIMO applicability for TCs		12.7.0
2015-09	RAN#69	R5-153162	0273	-	Test applicability for TC 9.7.1.2		12.7.0
2015-09	RAN#69	R5-153236	0278	-	Addition of additional capabilities for Enhanced performance requirements type C for LTE	12.6.0	
2015-09	RAN#69	R5-154023	0279	1	RF: Applicability of CSI requirements to UE Category 1 (for 36.521-2)		12.7.0
2015-09	RAN#69	R5-153388	0286	-	Correction to applicability of felCIC test cases.		12.7.0
2015-09	RAN#69	R5-153416	0287	-	Correction to information of feature group indicators		12.7.0
2015-09	RAN#69	R5-153477	0290	-	521-2 change applicability for Rel-10 CA RSRP relative accuracy tests	12.6.0	12.7.0
2015-09	RAN#69	R5-153479	0292	-	521-2 change applicability for Rel-11 CA RSRP relative accuracy tests		12.7.0
2015-09	RAN#69	R5-153480	0293	-	Introduction of 2DL CA test skipping if 3DL CA is tested in 36.521-1 Chapter 7		12.7.0
2015-09	RAN#69	R5-153481	0294	-	521-2 Addition of test applicabilities for Rel-12 CA RSRP relative accuracy tests	12.6.0	12.7.0

2015-09 RANI669 R5-153503 298 Correction to applicability content in Table 4.1-1.4,1-1a, for 12.6.0 12. 2015-09 RANI669 R5-153528 20299 Update of FGI definitions in TS 36.521-2 2015-09 RANI669 R5-153630 20300 Correction of applicability content in TS 36.521-2 2015-09 RANI669 R5-153641 20302 Correction of applicability content in TS 36.521-2 2015-09 RANI669 R5-153689 20300 Correction of applicability content in TS 36.521-2 2015-09 RANI669 R5-153689 20300 Correction of LOL PS 40 2015-2015-2015-2015-2015-2015-2015-2015-	Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
36.521-1					-			12.7.0
2015-09 RANM69 R5-153861 3000								_
Configuous part Configuous					-			12.7.0
2015-09 RANM69 R5-153614 0302	2015-09	RAN#69	R5-153580	0300	-		12.6.0	12.7.0
Carriera aggregation in DL-only bands	2015.00	D 4 N 1 // 0 0	D5 450044	0000			40.00	4070
2015-09 RANKE9 RS-153869 0306 Applicability for new RRM TCS 7.1.3.1+7.1.4.1 12.6.0 12.2 2015-09 RANKE9 RS-153828 0228 Addition of applicabilities for 3DL CA test cases 12.6.0 12.2 2015-09 RANKE9 RS-153828 0228 Addition of applicabilities for 3DL CA test cases 12.6.0 12.2 2015-09 RANKE9 RS-153860 0228 Addition of applicabilities for 3DL CA test cases 12.6.0 12.2 2015-09 RANKE9 RS-153861 0228 Addition of test applicabilities for 3DL CA RRM test cases 12.6.0 12.2 2015-09 RANKE9 RS-153896 0228 Addition of applicabilities for 3DL CA RRM test cases 12.6.0 12.2 2015-09 RANKE9 RS-153896 0228 Addition of applicabilities for 3DL CA RRM test cases 12.6.0 12.2 2015-09 RANKE9 RS-153896 0228 Addition of applicabilities for 3DL CA RRM test cases 12.6.0 12.2 2015-09 RANKE9 RS-153891 0226 Corrections to MTL Test applicabilities 2015-09 RANKE9 RS-153891 0227 Correction to MTC test applicability 12.6.0 12.2 2015-09 RANKE9 RS-153832 0272 Addition of applicability for newly introduced Z0MHz+20MHz 12.6.0 12.2 2015-09 RANKE9 RS-153833 0275 Addition of applicability for newly introduced TCR.16.18A 12.6.0 12.2 2015-09 RANKE9 RS-153833 0275 Addition of applicability for newly introduced TCR.16.18A 12.6.0 12.2 2015-09 RANKE9 RS-153894 0301 Addition of applicability for newly introduced TCR.1.4A (Rel- 12.6.0 12.2 2015-09 RANKE9 RS-153894 0301 Addition of applicability for newly introduced TCR.1.4A (Rel- 12.6.0 12.2 2015-09 RANKE9 RS-153894 0301 Addition of applicability for newly introduced TCR.1.4A (Rel- 12.6.0 12.2 2015-09 RANKE9 RS-153894 0301 Addition of applicability for test cases 12.4.2.A 12.6.0 12.2 2015-12 RANKE9 RS-153894 0301 Addition of applicability for test cases 12.4.2.A 12.6.0 12.2 2015-12 RANKE9 RS-155391 Addition of applicability for TCR.2.1.7.A 12.6.0 12.2 2015-12	2015-09	RAN#69	R5-153614	0302	-		12.6.0	12.7.0
2015-09 RANME9 RS-153813 0283 Correction of L2C PSHO applicability for TS 36.521-2 spec 12.6.0 12. 2015-09 RANME9 RS-153863 0282 Addition of applicability of SU-MIMO conformance tests 12.6.0 12. 2015-09 RANME9 RS-153860 0282 Addition of applicability of SU-MIMO conformance tests 12.6.0 12. 2015-09 RANME9 RS-153860 0282 Addition of test applicabilities of some test cases for 2UL CA 12.6.0 12. 2015-09 RANME9 RS-153891 0291 Proposal for missing Selection Criteria in table 4.1 12.6.0 12. 2015-09 RANME9 RS-153897 0289 Implementation of 36.521-1 Chapter 8.1 and 9.1 test 12.6.0 12. 2015-09 RANME9 RS-153891 0227 Correction to MTC Lies tac scase applicability 12.6.0 12. 2015-09 RANME9 RS-153911 0297 Correction to MTC Lies tac scase applicability 12.6.0 12. 2015-09 RANME9 RS-153912 0272 Addition of applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-09 RANME9 RS-153939 0277 Addition of applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-09 RANME9 RS-153939 0277 Addition of applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-09 RANME9 RS-153939 0277 Addition of applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-09 RANME9 RS-153939 0277 Addition of applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-09 RANME9 RS-153939 0277 Addition of applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-09 RANME9 RS-153939 0301 Addition of applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-12 RANME9 RS-153939 0305 Applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-12 RANME9 RS-153939 0305 Applicability for newly introduced COMINt-20MINt-12.0.0 12. 2015-12 RANME9 RS-153939 0305 Applicability for newly introduced COMINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20MINT-20M	2015-00	PAN#60	P5-153680	0306	_		1260	1270
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2016-09 RANN69 R5-153910 0297 1 Corrections to MTC test applicabilities 12.6.0 12.		RAN#69	R5-153896	0281	1		12.6.0	12.7.0
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110 17 17 17 17 18 17 18 18	2015-09	RAN#69	R5-153933	0275	1		12.6.0	12.7.0
Connected mode measurements	2010 00	10,00	100000	0270	ļ '		12.0.0	12.7.0
Connected mode measurements	2015-09	RAN#69	R5-153935	0277	1		12.6.0	12.7.0
2015-09 RAN#69 R5-153948 0305 1 Applicability corrections for test case 8 2.1.4.2_A.1 12.6.0 12.2								
2015-09 RAN#69 R5-154013 0.295 1 Addition of UE category 0 test cases 12.6.0 12. 2015-09 RAN#69 -	2015-09	RAN#69	R5-153946	0301	1	Adding applicability for TC 8.2.1.7_A.1	12.6.0	12.7.0
2015-12 RAN#70 R5-155275 0314 - Introduction of applicability for TC 6.6.2.2A.1 12.7.0 12.1	2015-09	RAN#69	R5-153948	0305	1	Applicability corrections for test case 8.2.1.4.2_A.1	12.6.0	12.7.0
according to the approved R5-153582 and an action point on ETSI MCC	2015-09	RAN#69	R5-154013	0295	1			
BTSI MCC	2015-09	RAN#69	-	-	-		12.6.0	12.7.0
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2015-12 RAN#70 R5-155318 0319 - Update of UE categories for R8 in 36.521-2 12.7.0 12.1	2015 12	D / N # 70	DE 155201	0316			1270	1290
2015-12 RAN#70 R5-155319 0320 - Update of UE categories for R10 in 36.521-2 12.7.0 12.1					<u> </u>			
2015-12 RAN#70 R5-155544 0326 Correction to conditions G32 and C35 in Table 4.1-1 and 12.7.0 12.1					1_			
2015-12 RAN#70 R5-155544 0326 Correction to conditions C32 and C35 in Table 4.1-1 and 12.7.0 12.1					-	Update of UE categories for R11 in 36.521-2		12.8.0
Table 4.1-1a					-			
2015-12 RAN#70 R5-155556 0328 Correction of RRM Condition C77 12.7.0 12.8								
2015-12 RAN#70 R5-15558 0329 Correction of RRM Condition C79 12.7.0 12.1	2015-12	RAN#70	R5-155545	0327	-	Correction to conditions of Table 4.1-1a	12.7.0	12.8.0
2015-12 RAN#70 R5-155560 0330 - Correction of RRM Condition C80 12.7.0 12.1	2015-12	RAN#70		0328	-	Correction of RRM Condition C77	12.7.0	12.8.0
2015-12 RAN#70 R5-15563 0332 - Correction of RRM Condition C81 12.7.0 12.1 2015-12 RAN#70 R5-155655 0334 - Correction of RRM Condition C82 12.7.0 12.1 2015-12 RAN#70 R5-155635 0339 - Release indication corrections in table A.4.1-1: UE Radio 12.7.0 12.1 2015-12 RAN#70 R5-155750 0341 - Addition of test cases in Table 4.1-1: Applicability of RF 12.7.0 12.1 2015-12 RAN#70 R5-155777 0342 - Test applicability for Intra Frequency RSRP Accuracy for UE 12.7.0 12.1 2015-12 RAN#70 R5-155873 0323 1 Applicability for Intra Frequency RSRP Accuracy for UE 12.7.0 12.1 2015-12 RAN#70 R5-155871 0324 1 Correction of applicability for FDD-TDD CA 12.7.0 12.1 2015-12 RAN#70 R5-155871 0324 1 Correction of applicability for FDD-TDD CA 12.7.0 12.1 2015-12 RAN#70 R5-155873 0336 1 Applicability updates on inter-band CA receiver test cases 12.7.0 12.1 2015-12 RAN#70 R5-155873 0336 1 Applicability update to FDD-TDD CA 12.7.0 12.1 2015-12 RAN#70 R5-155873 0335 1 Introduction of applicability expression for new 3DL CA RRM 12.7.0 12.1 2015-12 RAN#70 R5-156050 0308 1 Addition of applicability expression for new 3DL CA RRM 12.7.0 12.1 2015-12 RAN#70 R5-156060 0331 1 Addition of applicability for newly introduced MTC RRM tests 12.7.0 12.1 2015-12 RAN#70 R5-156061 0333 1 Addition of applicability for 2UL CA test cases 6.2.5A.3 and 6.2.5A.4 2015-12 RAN#70 R5-156050 0331 1 Addition of applicability for 12UL CA test cases 6.2.5A.3 and 12.7.0 12.1 2015-12 RAN#70 R5-156050 0331 1 Addition of applicability for 12UL CA test cases 6.2.5A.3 and 12.7.0 12.1 2015-12 RAN#70 R5-156050 0333 1 Addition of applicability for 12UL CA test cases 6.2.5A.3 and 12.7.0 12.1 2015-12 RAN#70 R5-156030 0333 1 Addition of 12 2015-12 RAN#70 R5-156030 0335 1 Correction to test					-	Correction of RRM Condition C79	-	
2015-12 RAN#70 R5-155655 0334 Correction of RRM Condition C82 12.7.0 12.8					-			
2015-12 RAN#70 R5-155635 0339 - Release indication corrections in table A.4.1-1: UE Radio 12.7.0 12.8 12.70 12.1 12					-			
Technologies					-			
2015-12 RAN#70 R5-155750 0341 - Addition of test cases in Table 4.1-1: Applicability of RF 12.7.0 12.8 2015-12 RAN#70 R5-155777 0342 - Test applicability for Intra Frequency RSRP Accuracy for UE 12.7.0 12.8 2015-12 RAN#70 R5-155843 0309 1 Update of applicability of SU-MIMO conformance tests 12.7.0 12.8 2015-12 RAN#70 R5-155870 0323 1 Applicability updates on inter-band CA receiver test cases 12.7.0 12.8 2015-12 RAN#70 R5-155871 0324 1 Correction of applicability of FDD-TDD CA 12.7.0 12.8 2015-12 RAN#70 R5-155872 0336 1 Applicability update to FDD-TDD CA 12.7.0 12.8 2015-12 RAN#70 R5-155873 0335 1 Introduction of applicability expression for new 3DL CA RRM 12.7.0 12.8 2015-12 RAN#70 R5-155874 0340 1 36.521-2: CA_2A-2A-13A update 12.7.0 12.8 2015-12 RAN#70 R5-156050 0308 1 Addition of applicability for newly introduced MTC RRM tests 12.7.0 12.8 2015-12 RAN#70 R5-156060 0331 Addition of applicability for 2UL CA test cases 6.2.5A.3 and 6.2.5A.4 2015-12 RAN#70 R5-156093 0313 1 Addition of applicability for 2UL CA test cases 6.2.4A.3, 6.3.5A.3.2 and 6.6.3.3A.3 2015-12 RAN#70 R5-156107 0325 1 Correction to test case condition for the test cases 9.5.1.x 12.7.0 12.8 2015-12 RAN#70 R5-156135 0318 2 Update of test applicability for RF cases 12.7.0 12.8 2015-12 RAN#70 R5-156135 0318 2 Update of test applicabilities for R12 RRM cases in 36.521-2 12.7.0 12.8 2015-12 RAN#70 R5-156136 0337 1 Update of test applicabilities for UL 64QAM cases 12.8.0 13.0	2015-12	RAN#70	R5-155635	0339	-		12.7.0	12.8.0
Conformance test cases. Conformance test	2015 12	D 4 N#70	DE 155750	0244			1070	1000
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applicability for 6 new NAICS test cases	2015-12	RAN#70	R5-156093	0313	1		12 7 0	12.8.0
2015-12 RAN#70 R5-156107 0325 1 Correction to test case condition for the test cases 9.5.1.x 12.7.0 12.7.0 12.6 2015-12 RAN#70 R5-156132 0338 2 Applicability for new SCE-L1 test cases 12.7.0 12.8 2015-12 RAN#70 R5-156135 0318 2 Update of test applicabilities for R12 RRM cases in 36.521-2 12.7.0 12.8 2015-12 RAN#70 R5-156136 0337 1 Update of the 1.4MHz MBMS test applicability 12.7.0 12.8 2015-12 RAN#70 R5-156087 0315 1 Introduction of test applicabilities for UL 64QAM cases 12.8.0 13.0 2016-03 RAN#71 R5-160037 0343 - LTE Type B performance requirements - Addition of 13.0.0 13.0	2010-12	. υ υ ν π / υ	1.00 100030	0010	[12.7.0	12.0.0
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	2016-03	RAN#71			-	LTE Type B performance requirements - Addition of		
applicability for test cases 8.2.1.4.4 and 8.2.2.4.5						applicability for test cases 8.2.1.4.4 and 8.2.2.4.5		

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2016-03	RAN#71	R5-160054	0344	1-	Addition of applicability for 2UL CA TC 6.5.2A.1.2,	13.0.0	13.1.0
2212.22	5.441	5- 40000			6.5.2A.1.3, 6.5.2A.2.2 and 6.5.2A.2.3	10.00	
2016-03	RAN#71	R5-160069	0345	-	Introduction of applicability of Tx test case 6.5.2A.3.2		13.1.0
2016-03 2016-03	RAN#71 RAN#71	R5-160071 R5-160073	0347 0346	2	Introduction of applicability of Tx test case 6.6.3.1A.3 Introduction of applicability of Tx test case 6.5.2A.3.3		13.1.0 13.1.0
2016-03	RAN#71	R5-160108	0349	-	Removal of technical content in 36.521-2 v12.8.0 and	13.0.0	
2010 03	TVAINT I	100100	0343		substitution with pointer to the next Release	10.0.0	13.1.0
2016-03	RAN#71	R5-160126	0353	-	Correction to applicability condition C22.	13.0.0	13.1.0
2016-03	RAN#71	R5-160273	0362	-	Applicability for new SCE RRM test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-160372	0368	-	Rel-8 UE category correction		13.1.0
2016-03	RAN#71	R5-160373	0369	-	Rel-10 UE category correction	13.0.0	
2016-03	RAN#71	R5-160511	0375	-	New CA band combination CA_41A-42C - Updates of Table A.4.6.3-3	13.0.0	13.1.0
2016-03	RAN#71	R5-160530	0378	-	Addition of CA Physical Layer Baseline Implementation Capabilities for the new CA configuration	13.0.0	13.1.0
2016-03	RAN#71	R5-160575	0381	-	Correction to the applicability of RRM test cases 9.5.1 and 9.5.2	13.0.0	13.1.0
2016-03	RAN#71	R5-160593	0382	-	Corrections to applicabilities of TDD FDD CA chapter 8 TCs	13.0.0	13.1.0
2016-03	RAN#71	R5-160694	0385	-	Applicability for newly added UL CA test cases	13.0.0	
2016-03	RAN#71	R5-160714	0351	1	Test applicability for Intra Frequency RSRQ Accuracy for UE category 0 Test Cases	13.0.0	13.1.0
2016-03	RAN#71	R5-160806	0355	1	Correction of applicability conditions C57 and C58	13.0.0	13.1.0
2016-03	RAN#71	R5-160807	0356	1	Missing applicability for TC 7.8.1A.4		13.1.0
2016-03	RAN#71	R5-160808	0357	1	Correction of Tested CA-Configurations for TC 7.5A.4 and	13.0.0	13.1.0
2016-03	RAN#71	R5-160816	0366	1	TC 7.6.1A.4 Addition of some Rel-13 defined CA combinations to TS	13.0.0	13.1.0
2016-03	RAN#71	R5-160817	0373	1	36.521-2 CA_20A-67A: Update of CA Physical Layer Baseline	13.0.0	13.1.0
2016-03	RAN#71	R5-160818	0376	1	Implementation Correction to condition C25x	13 0 0	13.1.0
2016-03	RAN#71	R5-160851	0379	1	Applicability of new RF NAICS test cases		13.1.0
2016-03	RAN#71	R5-160857	0361	1	MTC applicability of RF test cases	13.0.0	
2016-03	RAN#71	R5-160885	0360	1	Adding applicability of RRM test cases for LC_MTC_LTE- UEConTest.		13.1.0
2016-03	RAN#71	R5-160962	0387	-	Adding applicability statements to MTC RRM test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-161027	0363	1	Applicability for new LTE_CA_Rel12_2UL test case 6.6.3.2A.3	13.0.0	13.1.0
2016-03	RAN#71	R5-161036	0359	1	Applicability for new DL 256QAM RF and BB test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-161055	0352	1	Adding applicability of RRM test cases for LC_MTC_LTE- UEConTest	13.0.0	
2016-03	RAN#71	R5-161058	0377	1	Correction to conditions used item "support 256QAM in DL"	13.0.0	13.1.0
2016-03	RAN#71	R5-161067	0370	1	36.521-2 Test point reduction for UL 64QAM multi-cluster		13.1.0
					ACLR tests		
2016-03	RAN#71	R5-161069	0374	1	Add test case 8.16.17A and update release for test cases 8.16.18A	13.0.0	13.1.0
2016-03	RAN#71	R5-161074	0348	1	Addition of test case applicability for eDL MIMO Enhancement test cases	13.0.0	13.1.0
2016-03	RAN#71	R5-161083	0384	1	Introduction of applicability expression for new 3DL CA RRM test case TC 8.16.42	13.0.0	13.1.0
2016-03	RAN#71	R5-161084	0358	1	Adding applicability of TC 8.16.39 and 8.16.40 for LTE_CA_Rel12_3DL-UEConTest	13.0.0	13.1.0
2016-03	RAN#71	R5-161108	0364	1	Addition of applicability for Reference sensitivity with 4Rx antenna ports	13.0.0	13.1.0
2016-03	RAN#71	R5-161116	0380	2	Split FGI table for FDD and TDD and update related test case applicability	13.0.0	13.1.0
2016-06	RAN#72	R5-162022	0388	-	Adding missing ICS for UE supporting multiple timing advances	13.1.0	13.2.0
2016-06	RAN#72	R5-162197	0395	-	7.6.1_1 In-band blocking with 4 Rx antenna ports test applicability	13.1.0	13.2.0
2016-06	RAN#72	R5-162229	0396	-	Introduction of test applicability for newly introduced UL 64QAM test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-162250	0397	1-	Addition of applicabilities for 2 Tx test cases 6.5.1D.1 and 6.5.1D.2	13.1.0	13.2.0
2016-06	RAN#72	R5-162256	0398	-	Addition of applicability for test case 8.10.4.1.1 with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162257	0399	-	Addition of applicability for test case 8.10.4.1.2 with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162259	0400	-	Addition of applicability for test case 8.10.4.2.1 with 4 Rx antenna ports	13.1.0	13.2.0
	1	<u> </u>	0404	1	Addition of applicability for test case 8.10.4.2.2 with 4 Rx	12 1 0	13.2.0
2016-06	RAN#72	R5-162260	0401	-	antenna ports	13.1.0	10.2.0

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2016-06	RAN#72	R5-162403	0408	-	Addition of CA Physical Layer Baseline Implementation	13.1.0	13.2.0
2010 00	10 (10,172	102400	0400		Capabilities for CA_1A-3A-7A and CA_3A-7A-8A to 36.521-	10.1.0	10.2.0
2016-06	RAN#72	R5-162487	0413	-	Addition of applicability for Additional spurious emissions for CA (inter-band DL CA and UL CA)	13.1.0	13.2.0
2016-06	RAN#72	R5-162488	0414	-	Update to the applicability for SCE RRM test cases	13.1.0	13.2.0
2016-06	RAN#72	R5-162489	0415	-	Correction to applicability table for EUTRA TDD to UTRA TDD Son test case		13.2.0
2016-06	RAN#72	R5-162503	0416	-	New some Rel-13 defined CA combinations - Updates of Table A.4.6.3-3	13.1.0	13.2.0
2016-06	RAN#72	R5-162546	0419	-	Correction to condition C73h		13.2.0
2016-06	RAN#72	R5-162547	0420	-	Correction to condition C28y		13.2.0
2016-06	RAN#72	R5-162565	0421	-	Applicability for 4Rx antenna ports test cases		13.2.0
2016-06	RAN#72 RAN#72	R5-162574	0422	-	Applicability for 2UL CA test cases Band 65 introduction to 36.521-2		13.2.0
2016-06 2016-06	RAN#72	R5-162650 R5-162822	0424	1	Editorial corrections of the condition table in the TS 36.521-2	13.1.0	13.2.0
2016-06	RAN#72	R5-162824	0402	1	Modification to felCIC RRM test cases applicability		13.2.0
2016-06	RAN#72	R5-162825	0407	1	Minor correction to FGI FDD and TDD tables		13.2.0
2016-06	RAN#72	R5-162826	0409	1	Correction to applicability of RRM test cases condition in table 4.2-1a		13.2.0
2016-06	RAN#72	R5-162827	0410	1	Correction to RF applicability condition for felCIC	13.1.0	13.2.0
2016-06	RAN#72	R5-162828	0417	1	Correction of Tested CA Configurations Selection Criteria		13.2.0
2016-06	RAN#72	R5-162829	0423	1	New CA band combination CA_8A-40A – Updates of Table A.4.6.3-3		13.2.0
2016-06	RAN#72	R5-162850	0391	1	Update of CA Physical Layer Baseline Implementation Capabilities for new CA configuration in Annex A.4.6		13.2.0
2016-06	RAN#72	R5-162864	0390	1	Addition of applicability for TC 7.9_1 Spurious emissions with 4 Rx antenna ports	13.1.0	13.2.0
2016-06	RAN#72	R5-162873	0392	1	Add applicability for test case 6.2.4A.2		13.2.0
2016-06	RAN#72	R5-162956	0394	1	Addition of test cases in Table 4.1-1: Applicability of RF conformance test cases.		13.2.0
2016-06	RAN#72	R5-163019	0427	-	Introduction of CA Physical Layer Baseline Implementation for CA_1A-8A-11A		13.2.0
2016-06	RAN#72	R5-163105	0426	1	Introduction of ICS and applicability for new e-MTC RF test cases		13.2.0
2016-06	RAN#72	R5-163109	0389	1	Add B66 information in TS 36.521-2		13.2.0
2016-06 2016-09	RAN#72 RAN#73	R5-163118 R5-165030	0425 0428	-	Applicability CR to 36.521-2 for new DC test cases Update of CA Physical Layer Baseline Implementation		13.2.0
2016-09	RAN#73	R5-165090	0430	-	Capabilities for new CA configuration in Annex A.4.6 Applicability of new RF and RRM test cases for CAT-M1 UE and UE in enhanced coverage	13.2.0	13.3.0
2016-09	RAN#73	R5-165196	0432	-	Applicability of new added ProSe RF test cases	13.2.0	13.3.0
2016-09	RAN#73	R5-165197	0433	-	Applicability of new added NAICS demodulation test cases		13.3.0
2016-09	RAN#73	R5-165212	0435	-	New CA band combination CA_1A-40A and CA_3A-40A - Updates of Table A.4.6.3-3	13.2.0	13.3.0
2016-09	RAN#73	R5-165213	0436	-	Correction of applicability conditions to test cases 9.5.2.1_D and 9.5.2.2_D	13.2.0	
2016-09	RAN#73	R5-165214	0437	-	Correction to applicability of RF test cases condition in table 4.1-1a		13.3.0
2016-09	RAN#73	R5-165216	0438	-	Correction to incorrect test case number and title in Table 4.2-1		13.3.0
2016-09	RAN#73	R5-165249	0439	-	Applicabilities for new 4Rx Test Cases - CQI reporting / AWGN	13.2.0	13.3.0
2016-09	RAN#73	R5-165271	0440	-	Change of names of 3DL TCs		13.3.0
2016-09	RAN#73	R5-165315	0443	-	Update applicability for PCFICH/PDCCH performance with 4Rx antenna ports test cases		13.3.0
2016-09	RAN#73	R5-165361	0444	-	Addition of CA Physical Layer Baseline Implementation Capabilities for CA_1A-3A-28A to 36.521-2.		13.3.0
2016-09	RAN#73	R5-165399	0445	-	Updates of physical layer baseline implementation capability for CA_1A-3C		13.3.0
2016-09	RAN#73	R5-165416	0448	-	Additional CA Physical Layer Baseline Implementation Capabilities for new CA combinations to TS36.521-2		13.3.0
2016-09	RAN#73	R5-165434	0452	-	Introduction of test applicability for NB-IoT test cases 6.2.5F, 6.5.2.1F.1 and 6.5.2.2F		13.3.0
2016-09	RAN#73	R5-165445	0453	-	Introduction of test applicability for UL 64QAM+UL intra- band non-contiguous CA EVM test		13.3.0
2016-09	RAN#73	R5-165493	0454		Correction to applicability of Power Class 3 only UL TCs		13.3.0
2016-09	RAN#73	R5-165504	0456	-	Introduction of Band 45 into 36.521-2		13.3.0
2016-09 2016-09	RAN#73 RAN#73	R5-165515 R5-165533	0457 0458	Ε	Correction to applicability of Multi-Cluster TCs Supplementation of SCE RRM test cases applicability		13.3.0 13.3.0
2016-09	RAN#73	R5-165627	0456	 -	Applicability of new RF NAICS test cases		13.3.0
2016-09	RAN#73	R5-165647	0461	<u> </u> -	Correction to applicability condition for EUTRA TDD to		13.3.0
					UTRA TDD		

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2016-09	RAN#73	R5-165656	0462	-	Correction to test cases release information for test cases 9.3.3 and 9.4.3	13.2.0	13.3.0
2016-09	RAN#73	R5-165662	0464	-	Update of applicability for RRM 3 DL CA activation and deactivation test cases	13.2.0	13.3.0
2016-09	RAN#73	R5-165824	0465	-	36.521-2 4CC Band combinations addition (CA_2A-2A-4A-4A and CA_2A-4A-5A-30A)	13.2.0	13.3.0
2016-09	RAN#73	R5-165830	0466	-	Correction to applicability for RF test cases in TS 36.521-2 table 4.1-1	13.2.0	13.3.0
2016-09	RAN#73	R5-165984	0451	1	Introduction of ICS proforma tables for NB-IoT in 36.521-2	13.2.0	13.3.0
2016-09	RAN#73	R5-166014	0429	1	Adding missing test cases 6.3.5_1.1, 6.3.5_1.2, 6.3.5_1.3 to table 4.1-1, 36.521-2	13.2.0	13.3.0
2016-09	RAN#73	R5-166016	0449	1	Correction to test cases not applicable for UE category 1		13.3.0
2016-09	RAN#73	R5-166017	0450	1	Correction for UL 64QAM test cases to TS36.521-2		13.3.0
2016-09	RAN#73	R5-166018	0463	1	Additional new PICS items to handle CA test cases bandwidth configurations of 20MHz+20MHz and 20MHz+10MHz in 3GPP TS 36.521-3	13.2.0	
2016-09	RAN#73	R5-166019	0467	1	Addition of modifiedMPR-behavior capability		
2016-09	RAN#73	R5-166049	0441	1	Introduction of CA physical layer capabilities for CA_8A-42A (2DL) and CA_8A-42C (3DL)	13.2.0	13.3.0
2016-09	RAN#73	R5-166088	0447	1	Update of Feature Group Indicators for eMTC	13.2.0	
2016-09	RAN#73	R5-166332	0442	2	Cleanup TS36.521-2 for XML compliant		13.3.0
2016-09	RAN#73	R5-166057	0459	1	New CA band combination CA_1A-41A-42A - Updates of Table A.4.6.3-3	13.3.0	
2016-12 2016-12	RAN#74 RAN#74	R5-168040 R5-168261	0469 0475	-	Updates of Table A.4.6.3-3 to 36.521-2 for CA_1A-3A-41A Update to the applicability in identification of a new CGI E-	14.0.0	
2016-12	RAN#74	R5-168391	0475	-	UTRA cell using autonomous gaps Band 66 Intra-band CA applicability dependency to 36.521-2	14.0.0	
2016-12	RAN#74	R5-168393	0479	-	Correction to Band 65 capabilities in 36.521-2		14.1.0
2016-12	RAN#74	R5-168486	0483	1	Maintenance of the tables in 4.1, 4.2 TS36.521-2 for XML	14.0.0	
2016-12	RAN#74	R5-168488	0484	<u> </u>	Conversion Maintenance of tables in A.4 TS36.521-2 for XML	14.0.0	14.1.0
2016-12	RAN#74	R5-168501	0489	 -	conversion Maintenance of the tables in 4.1, 4.2, A.4 TS36.521-2 for	14.0.0	
2016-12	RAN#74	R5-168533	0492		XML conversion Correction of title of 256 QAM DL test case 7.4A.3_H		14.1.0
2016-12	RAN#74	R5-168624	0492	-	CA_20A-28A: Update of CA Physical Layer Baseline	14.0.0	
				ļ <u>.</u>	Implementation		
2016-12	RAN#74	R5-168733	0502	ļ-	Correction to applicability test conditions C120, C93a, C93b, C94a, C94b, C94c C94d, C107a, C107b, C107c and C107d		14.1.0
2016-12	RAN#74	R5-168748	0503	-	Addition of missing CA Configurations selection in table 4.1- 1 for some RF test cases 7.4.X	14.0.0	14.1.0
2016-12	RAN#74	R5-168846	0509	-	CA_70C applicability information to 36.521-2		
2016-12	RAN#74	R5-168860	0511	-	Correction to TS 36.521-2 Tested Bands Selection Criteria D10	14.0.0	
2016-12	RAN#74	R5-168905	0512	-	CA_3A-20A-32A: Update of CA Physical Layer Baseline Implementation	14.0.0	
2016-12	RAN#74	R5-168918	0513	-	Addition of CA Physical Layer Baseline Implementation for CA_3A-7A-28A, CA_3A-7B, CA_7A-22A, CA_7B, CA_7B-28A, CA_7C-28A and CA_20A-40A		
2016-12	RAN#74	R5-169046	0517	<u> </u>	Applicability test case 6.7EA		14.1.0
2016-12	RAN#74	R5-169090	0518	-	Applicability of Dual Connectivity RF and RRM test cases		14.1.0
2016-12	RAN#74	R5-169163	0497	1	Applicability of Rel-13 CA RF and RRM test cases		14.1.0
2016-12 2016-12	RAN#74 RAN#74	R5-169515 R5-169516	0468 0510	1	Correction to applicability condition of RRM TC 8.7.3 Correction to TS 36.521-2 Applicability Tables 4.1-1a & 4.2-	14.0.0	
2016-12	RAN#74	R5-169518	0496	1	1a Additional new PICS items to handle LAA test cases	14.0.0	14 1 0
2016-12	RAN#74	R5-169530	0498	1	Introduction of applicability for new NB-IoT test cases		14.1.0
2016-12	RAN#74	R5-169554	0500	1	New CA band combination CA_1A-11A-18A - Updates of Table A.4.6.3-3	14.0.0	14.1.0
2016-12	RAN#74	R5-169589	0508	1	Applicability for E-UTRAN HD-FDD intra-frequency event triggered reporting under fading propagation conditions for Cat-M1 UE in CEModeA TCs	14.0.0	14.1.0
2016-12	RAN#74	R5-169590	0477	1	Addition of applicability for Dual Connectivity RRM test cases	14.0.0	14.1.0
2016-12	RAN#74	R5-169617	0491	1	Add test cases 6.3.2A.2, 6.5.1A.2 and 6.6.2.3A.2 in Table 4.1-1	14.0.0	14.1.0
2016-12	RAN#74	R5-169651	0481	1	Band 70 applicability information to 36.521-2	14.0.0	14.1.0
2016-12	RAN#74	R5-169731	0507	1	Addition of test case applicability for 4Rx RF/RRM test cases	14.0.0	14.1.0
2016-12	RAN#74	R5-169733	0495	1	Applicability of eMTC RF and RRM test cases	14.0.0	
2016-12	RAN#74	R5-169734	0490	2	Update to the applicability in the power control test cases for HPUE	14.0.0	14.1.0
2017-03	RAN#75	R5-170524	0519	-	Update of CA Physical Layer Baseline Implementation Capabilities for R14 CA configuration to 36.521-2	14.1.0	14.2.0

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2017-03	RAN#75	R5-170544	0520	-	Update TS 36.521-2 with Addition of LTE Band 48		
2017-03	RAN#75	R5-170628	0523	-	Resubmission of R5-170022 Introduction of test applicability	14.1.0	14.2.0
					for TC 6.3.5F.3, 8.12.1.1.2 and 8.12.2.1.1		
2017-03	RAN#75	R5-170812	0528	-	Correction of description of TC 8.2.2.4.2_1 FDD PDSCH Closed Loop Multi Layer Spatial Multiplexing 4x2 (Release 9 and Forward)	14.1.0	14.2.0
2017-03	RAN#75	R5-170888	0537	1-	Corrections to Table 4.2-1 and 4.2-1.a.	14.1.0	14.2.0
2017-03	RAN#75	R5-171194	0542	1-	Correction to applicability of 2CA TDD FDD RRM test cases	14.1.0	
2017-03	RAN#75	R5-171348	0547	-	Correction to Band 70 RF additional baseline implementation capabilities		
2017-03	RAN#75	R5-171350	0548	-	CA_29A-66A, CA_29A-66A-66A, CA_29A-66C, CA_46A-66A addition to 36.521-2	14.1.0	14.2.0
2017-03	RAN#75	R5-171519	0541	1	Maintenance of the tables in 4.1, 4.2, A.4 TS36.521-2 for XML conversion	14.1.0	14.2.0
2017-03	RAN#75	R5-171702	0536	1	Addition of frequency bands 46, 47, 48, 67, 68, 69 into Tables A.4.3-3, A.4.5-3 and A.4.5-4.	14.1.0	14.2.0
2017-03	RAN#75	R5-171712	0532	1	Introduction of CA_1A-8A-28A to section A4.6	14.1.0	14.2.0
2017-03	RAN#75	R5-171715	0533	1	Introduction of CA_3A-8A-28A to section A4.6	14.1.0	14.2.0
2017-03	RAN#75	R5-171718	0534	1	Introduction of CA_3A-28A-41A to section A4.6	14.1.0	
2017-03	RAN#75	R5-171721	0530	1	Introduction of CA_8A-28A to section A4.6	14.1.0	14.2.0
2017-03	RAN#75	R5-171722	0531	1	Introduction of CA_11A-28A to section A4.6	14.1.0	14.2.0
2017-03	RAN#75	R5-171726	0526	1	Realignment and rename of the Table A.4.3.4-a0 for UE category NB	14.1.0	14.2.0
2017-03	RAN#75	R5-171893	0544	1	Applicability update for 4Rx test cases	14.1.0	
2017-03	RAN#75	R5-171894	0522	1	Addition of applicability for 4Rx test cases 9.9.4.1.1/9.9.4.1.2/9.9.4.2.1/9.9.4.2.2	14.1.0	14.2.0
2017-03	RAN#75	R5-171920	0543	1	LAA: Applicability addition of LAA test cases	14.1.0	14.2.0
2017-03	RAN#75	R5-171925	0539	1	Introduction of applicability for new NB-IoT test cases	14.1.0	14.2.0
2017-03	RAN#75	R5-171935	0540	1	New CA band combinations CA_1A-41A-42C and 1A-41C-42A - Updates of Table A.4.6.3-4	14.1.0	14.2.0
2017-03	RAN#75	R5-171944	0549	-	Correction to 2DL CA downlink capabilities	14.1.0	14.2.0
2017-03	RAN#75	R5-171962	0525	3	Applicability of Rel-13 CA RF and RRM test cases	14.1.0	14.2.0
2017-03	RAN#75	R5-171970	0524	1	Applicability of eMTC RF and RRM test cases	14.1.0	14.2.0
2017-06	RAN#76	R5-172112	0550	-	Addition of 14 CA configurations containing Band 66 to 36.521-2	14.2.0	14.3.0
2017-06	RAN#76	R5-172158	0552	-	New CA band combination CA_1A-41C-42C - Updates of Table A.4.6.3-4	14.2.0	14.3.0
2017-06	RAN#76	R5-172356	0555	-	Update to Additional UE radio access capabilities for NS_04	14.2.0	14.3.0
2017-06	RAN#76	R5-172425	0558	-	Addition of CA_2A-66A, CA_5A-66A and CA_13A-66A to TS 36.521-2	14.2.0	14.3.0
2017-06	RAN#76	R5-172524	0560	-	Introduction of CA_1A-11A-28A to Annex A4.6.3	14.2.0	14.3.0
2017-06	RAN#76	R5-172528	0561	-	Introduction of CA_8A-11A-28A to Annex A4.6.3	14.2.0	14.3.0
2017-06	RAN#76	R5-172687	0563	-	Maintenance of the tables 4.1, 4.1-1a, 4.2 in TS36.521-2 for XML conversion	14.2.0	14.3.0
2017-06	RAN#76	R5-172695	0564	-	Correction to RRM applicability condition C132	14.2.0	14.3.0
2017-06	RAN#76	R5-172697	0565	-	Addition of new CA configuration CA_3A-69A to 36.521-2	14.2.0	14.3.0
2017-06	RAN#76	R5-172699	0566	-	Addition of new CA configuration CA_2A-2A-12A to 36.521-2	14.2.0	14.3.0
2017-06	RAN#76	R5-172721	0569	-	Applicability correction for eDL-MIMO test cases in part 2	14.2.0	14.3.0
2017-06	RAN#76	R5-172726	0571	-	Applicability of eMTC RF and RRM test cases	14.2.0	14.3.0
2017-06	RAN#76	R5-172734	0572	-	Add Applicability for TS 36.521-2 Test case 8.22.11 and 8.22.12	14.2.0	14.3.0
2017-06	RAN#76	R5-173207	0556	1	Remove MPR/A-MPR test cases from Applicability spec	14.2.0	
2017-06	RAN#76	R5-173224	0553	1	New CA band combination CA_3C-8A - Updates of Table A.4.6.3-3	14.2.0	14.3.0
2017-06	RAN#76	R5-173282	0557	1	LAA: Applicability update of LAA test cases	14.2.0	
2017-06	RAN#76	R5-173308	0570	1	Applicability of Rel-13 CA RF and RRM test cases	14.2.0	
2017-06	RAN#76	R5-173324	0576	1	Update of CA Physical Layer Baseline Implementation Capabilities for new CA configuration in Annex A.4.6	14.2.0	14.3.0
2017-06	RAN#76	R5-173327	0577		Update test applicabilities for NB-IoT test cases 6.1.15 and 6.1.16	14.2.0	14.3.0
2017-06	RAN#76	R5-173350	0551	1	NB-IoT bands 11, 25, 31, and 70 introduction to 36.521-2	14.2.0	
2017-06	RAN#76	R5-173367	0574	1	Corrections to Applicability Conformance and Conditions for intra/inter-frequency SI acquisition for HO	14.2.0	14.3.0
2017-06	RAN#76	R5-173413	0562	1	Correction to FD-FDD only test case comment and condition	14.2.0	
2017-06	RAN#76	R5-173419	0554	1	Remove applicability of SDR test cases for 4Rx	14.2.0	
2017-06	RAN#76	R5-173420	0568	1	4Rx updates to RF/RRM applicability specification	14.2.0	14.3.0
2017-09	RAN#77	R5-173701	0579		New CA band combination CA_1A-3C-8A - Updates of Table A.4.6.3-4		
2017-09	RAN#77	R5-173938	0584	-	Addition of test applicability of LAA test case 9.2.6.2	14.3.0	14.4.0
2017-09	RAN#77	R5-173969	0586	-	Introduction of CA_1A-3A-11A to Annex	14.3.0	14.4.0
2017-09	RAN#77	R5-173976	0587	-	Introduction of CA_3A-8A-11A to Annex	14.3.0	14.4.0
2017-09	RAN#77	R5-173977	0588	-	Introduction of CA configuration CA_2A-7A	14.3.0	14.4.0
2017-09	RAN#77	R5-173986	0589	_	Introduction of CA_3A-11A-28A to Annex		14.4.0

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2017-09	RAN#77	R5-174025	0592	-	Addition of new CA Configuration CA_3A-38A to TS 36.521-2	14.3.0	14.4.0
2017-09	RAN#77	R5-174144	0596	-	Addition of new CA configurations to 36.521-2	14.3.0	14.4.0
2017-09	RAN#77	R5-174154	0597	-	Addition of 1.4 and 3 MHz to 36.521-2 for Band 65	14.3.0	14.4.0
2017-09	RAN#77	R5-174224	0601	-	Editorial Change to correct applicability comment to TC8.16.52	14.3.0	14.4.0
2017-09	RAN#77	R5-174225	0602	-	Corrected applicability and condition to 3DL CA tests required event A6 [TEI11]	14.3.0	14.4.0
2017-09	RAN#77	R5-174226	0603	-	Corrected applicability and condition to 3DL CA tests required event A6 [TEI12]	14.3.0	14.4.0
2017-09	RAN#77	R5-174417	0614	-	Corrections to applicability Conformance and Conditions	14.3.0	14.4.0
2017-09	RAN#77	R5-175015	0581	1	Applicability of CA RF and RRM test cases	14.3.0	14.4.0
2017-09	RAN#77	R5-175022	0578	1	Addition of CA_29A-70A, CA_29A-46A-66A, CA_46A-66A-66A, CA_46A-66C, CA_46A-70A to 36.521-2	14.3.0	14.4.0
2017-09	RAN#77	R5-175028	0591	1	Addition of a few Band 46 CA Configurations to TS 36.521-2		
2017-09	RAN#77	R5-175029	0598	1	Introduction of CA_3A-32A to Table A.4.6.3-3	14.3.0	
2017-09	RAN#77	R5-175063	0593	1	Update applicability of performance TCs	14.3.0	_
2017-09	RAN#77	R5-175072	0615	-	NB-IoT band 21 introduction to 36.521-2	14.3.0	
2017-09	RAN#77	R5-175080	0595	1	Applicability addition of 7.4.1, 7.4.2, 7.4.3	14.3.0	
2017-09	RAN#77	R5-175081	0611	1	Introduction of new DC test cases	14.3.0	
2017-09	RAN#77	R5-175082	0608	1	Introduction of new RF Dual Connectivity test cases	14.3.0	
2017-09	RAN#77	R5-175108	0585	1	Addition of V2V applicability PICS for RF/RRM test cases	14.3.0	
2017-09 2017-09	RAN#77 RAN#77	R5-175131	0605	1	Addition of the Rel-13 CA combinations into A.4.6	14.3.0	
2017-09 2017-09	RAN#77 RAN#77	R5-175147 R5-175148	0583 0599	1	Addition of NB-IoT test applicabilities for multiple test cases Removal of redundant capability tables for Category NB1	14.3.0	
2017-09 2017-09	RAN#77	R5-175146	0606	1	Addition of applicability statements for new LWA test cases	14.3.0	
					8.25.1 & 8.25.2		
2017-09	RAN#77	R5-175172	0604	1	Addition of the Rel-14 CA combinations into A.4.6	14.3.0	
2017-09	RAN#77	R5-175195	0600	1	Update to applicability for TDD-FDD 2DL CA with 4Rx performance test cases	14.3.0	
2017-09	RAN#77	R5-175196	0590	1	Addition of new 4Rx SDR test cases - applicability	14.3.0	
2017-09	RAN#77	R5-175198	0612	1	Editorial change to the content of comment and condition of the test cases 8.2.1.3.1, 8.2.1.3.1_1 and 8.2.1.3.2 in Table	14.3.0	14.4.
0047.00	D 4 1 1 1 7 7	DE 475000	0500	ļ	4.1-1 and 4.1-1a.	1100	444
2017-09	RAN#77	R5-175200	0580	1	Applicability of eMTC RF and RRM test cases	14.3.0	
2017-09	RAN#77	R5-175211	0609	1	Applicability updates for 4Rx test cases	14.3.0	
2017-12	RAN#78	R5-176035 R5-176303	0616 0623	ļ-	Addition of new 4Rx SDR test cases - applicability	14.4.0	
2017-12 2017-12	RAN#78 RAN#78	R5-176303	0623	-	Added FDD Band 69 to RF ICS Applicabilities addition of test cases 8.13.3.6.1 and	14.4.0	
0047.40	DANUZO	DE 470007	0000		8.13.3.6.2	44.40	445
2017-12 2017-12	RAN#78 RAN#78	R5-176397 R5-176426	0628 0635	-	Editorial Change to Clause number in Table 4.1-1 Correction to applicability condition of 4Rx CQI test cases	14.4.0	
2017-12	RAN#78	R5-176447	0637	-	Test tolerance, Addition of test applicability of RRM test case 8.4.6		
2017-12	RAN#78	R5-176561	0646	 	Editorial correction of title for 4Rx chapter 9 TCs in 36.521-2	14 4 0	14 5 (
2017-12	RAN#78	R5-176613	0649	-	Editorial correction to the baseline implementation capability for Band 30		
2017-12	RAN#78	R5-176702	0656	 	Applicability changes for RRM 4Rx tests	14.4.0	14.5 (
2017-12	RAN#78	R5-176797	0660	1-	Applicability for new 4Rx CA demodulation test cases	14.4.0	
2017-12	RAN#78	R5-177093	0642	1	Change of eMTC demodulation test cases numbering, part 2	14.4.0	
2017-12	RAN#78	R5-177326	0652	1	Correction to e-MTC TM9 PDSCH applicability	14.4.0	
2017-12	RAN#78	R5-177328	0621	1	Updated to LAA RRM test cases condition	14.4.0	
2017-12	RAN#78	R5-177329	0622	1	Added missing RF test cases to applicability table	14.4.0	
2017-12	RAN#78	R5-177330	0632	1	Correction to applicability condition for RRM test cases	14.4.0	
2017-12	RAN#78	R5-177331	0647	1	Corrected to RRM test cases 8.16.x and relevant condition	14.4.0	14.5.
2017-12	RAN#78	R5-177345	0634	1	Addition of UE capability of 4-layer MIMO for different transmission modes	14.4.0	14.5.
2017-12	RAN#78	R5-177402	0648	1	applicability spec updates for Cat1bis	14.4.0	
2017-12	RAN#78	R5-177406	0644	1	Applicability statement for HST rrm&rf TCs	14.4.0	
2017-12	RAN#78	R5-177431	0625	1	eLAA: Applicability update to test cases	14.4.0	
2017-12	RAN#78	R5-177444	0619	1	Applicability of legacy LTE RF/RRM test cases for CAT-M1 UE	14.4.0	
2017-12	RAN#78	R5-177445	0624	1	Updated test condition to RF section 8 & 9 test cases for missing TM9	14.4.0	
2017-12	RAN#78	R5-177446	0661	1	Addition of test cases branch column for RF/Demod test cases	14.4.0	
2017-12	RAN#78	R5-177447	0629	1	Applicability and ICS for CA RF and RRM test cases	14.4.0	
2017-12	RAN#78	R5-177377	0620	1	Added FDD Band 71 to RF ICS	14.5.0	
2018-03	RAN#79	R5-180334	0665	-	Addition of FDD Band 72 to RF ICS in 36.521-2	15.0.0	
2018-03	RAN#79	R5-180335	0666	-	Addition of FDD Band 68 to RF ICS in 36.521-2	15.0.0	
2018-03	RAN#79	R5-180419	0670	-	Addition of test applicabilities of eIMTA new test cases.	15.0.0	
2018-03	RAN#79	R5-180557	0676	1-	Addition of applicability and ICS for 4Rx with CA	15.0.0	115.1

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2018-03	RAN#79	R5-180811	0684	-	Test Case Applicability and Conditions for LTE DL Control Channel Interference Mitigation	15.0.0	15.1.0
2018-03	RAN#79	R5-180830	0685	-	Corrections to Applicability test conditions related to eDL-MIMO	15.0.0	15.1.0
2018-03	RAN#79	R5-180839	0686	-	Correction to applicability of TC 7.6.3A.3	15.0.0	15.1.0
2018-03	RAN#79	R5-181006	0694	-	Correction to test case conditions C196 and C197 for RRM in Table 4.2-1a	15.0.0	
2018-03	RAN#79	R5-181049	0697	-	Applicability of RRM Incmon test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-181100	0700	1-	Applicability for new 4Rx CA demodulation test cases	15.0.0	
2018-03	RAN#79	R5-181108	0701	-	Introduction of CA_3A-7A-20A (3DL-2U)L to Annex A		15.1.0
2018-03	RAN#79	R5-181535	0678	1	Addition of new R14 CA configurations to 36.521-2	15.0.0	15.1.0
2018-03	RAN#79	R5-181536	0689	1	Update of test applicability for 9.6.1.3.4 and 9.6.1.4.4 in 36.521-1	15.0.0	15.1.0
2018-03	RAN#79	R5-181548	0691	1	Correction to test applicability for LAA performance test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-181552	0677	1	Correct RRM LAA test applicability in 36521-2	15.0.0	15.1.0
2018-03	RAN#79	R5-181553	0687	1	Updates to Applicability of RF conformance test case 8.7.1.1_A.5	15.0.0	15.1.0
2018-03	RAN#79	R5-181554	0690	1	Correction to test applicability for LAA RRM test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-181555	0699	1	[Editorial] Update of the 4Rx capable bands	15.0.0	
2018-03	RAN#79	R5-181562	0663	1	Corrections to applicability of 4Rx SDR test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-181596	0682	1	Cat1bis RRM RSRQ applicability	15.0.0	15.1.0
2018-03	RAN#79	R5-181597	0692	1	Correction to the comment content for test cases 5.1.20 and 5.2.10	15.0.0	15.1.0
2018-03	RAN#79	R5-181604	0672	1	Addition of applicability for TC8.12.1.1.3	15.0.0	15.1.0
2018-03	RAN#79	R5-181608	0675	1	Added applicability to TS 36.521-2 for eHST RF test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-181609	0693	1	Correction to test case conditions C179 and C180 for RRM in Table 4.2-1a	15.0.0	15.1.0
2018-03	RAN#79	R5-181612	0698	1	Addition of the Band 74 information into TS 36.521-2	15.0.0	15.1.0
2018-03	RAN#79	R5-181614	0680	1	Introduction of test applicabilities for UL 256QAM	15.0.0	15.1.0
2018-03	RAN#79	R5-181640	0669	1	Addition of test applicability of RRM SRS test cases	15.0.0	15.1.0
2018-03	RAN#79	R5-181667	0704	1	eLAA: Applicability spec update	15.0.0	15.1.0
2018-03	RAN#79	R5-181695	0671	2	Editorial change to applicability condition for RRM TC8.7.4	15.0.0	
2018-06	RAN#80	R5-182653	0714	-	Addition of test applicability for eNB RRM test case 6.2.18	15.1.0	15.2.0
2018-06	RAN#80	R5-182683	0716	-	Addition of applicabilities 4 test cases for UL 256QAM	15.1.0	
2018-06	RAN#80	R5-182729	0718	-	Correction to applicability spec for LAA Section 9 RRM test cases	15.1.0	15.2.0
2018-06	RAN#80	R5-183947	0719	1	Addition of applicability for LAA SDR cases	15.1.0	15.2.0
2018-06 2018-06	RAN#80 RAN#80	R5-182797 R5-182920	0723 0731	-	eLAA: Applicability Update for eLAA test cases Applicability for new 4Rx TDD FDD CA demodulation test	15.1.0 15.1.0	15.2.0 15.2.0
0040.00	DANI//OO	DE 400070	0700	1	Cases	45.4.0	45.0.0
2018-06 2018-06	RAN#80 RAN#80	R5-183276 R5-183736	0733	1	Cat1bis applicability CR Applicability and ICS for CA RF and RRM test cases		15.2.0
2018-06	RAN#80	R5-183737	0709 0725	1	Addition of new Name_Release mapping table for test	15.1.0 15.1.0	15.2.0
2018-06	RAN#80	R5-183753	0707	1	applicability for DL CA Correction to eMTC TM6 PDSCH applicability	15.1.0	15.2.0
2018-06	RAN#80	R5-183755	0706	1	Applicability for TC 9.2.4.1_1 and 9.2.4.2_1		15.2.0
2018-06	RAN#80	R5-183759	0730	1	Test Applicability for TDD - TDD Inter Frequency RSRQ Accuracy		15.2.0
2018-06	RAN#80	R5-183767	0713	1	Correction of wrong references to ICS proforma tables (editorial)	15.1.0	15.2.0
2018-06	RAN#80	R5-183800	0715	1	Addition of test applicability for V2V RF and RRM test cases	15.1.0	15.2.0
2018-06	RAN#80	R5-183812	0722	1	High_Speed_test: Addition of applicability of FDD event reporting test case		15.2.0
2018-06	RAN#80	R5-183834	0721	1	Added new ICS information for UE Category M2	15.1.0	15.2 0
2018-06	RAN#80	R5-183846	0721	1	4Rx Test Case Redundancy		15.2.0
2018-06	RAN#80	R5-183893	0708	1	Adding applicability for new UL 256QAM test case, 6.2.3_6		15.2.0
2018-06	RAN#80	R5-183898	0727	1	Corrections to table "Table 4.1-1a" and "Table 4.2-1a" Applicability of test case Conditions from 3GPP TS 36.521-2		15.2.0
2018-09	RAN#81	R5-184294	0740	-	Addition of test applicability for Rel-13 B5C new TC 8.16.47-50	15.2.0	15.3.0
2018-09	RAN#81	R5-184325	0741	1-	36.521-2 updates for category M2 test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-184581	0746	-	Applicability C20 updated for intra-band contigous DL CA tests		15.3.0
2018-09	RAN#81	R5-184584	0749	-	Table format correct and removed redundant line for RF clause 6 test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-184809	0758	-	Correction to Applicability Condition of TS 36.521-1 Test Cases 6.6.2.2A.1 and 6.6.3.3A.1	15.2.0	15.3.0
2018-09	RAN#81	R5-184892	0761	-	4Rx branches in some 4DL CA and 5DL CA Demodulation test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-184980	0766	 -	Cat1bis test cases applicability	15.2.0	15.3.0
2018-09	RAN#81	R5-184982	0767	1-	Resubmission of Cat1bis applicability CR		15.3.0
2018-09	RAN#81	R5-185374	0738	1	Addition of test applicabilities of multiple V2X test cases	15.2.0	

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2018-09	RAN#81	R5-185376	0763	1	Add a new test condition for test case 8.13.3.1.2.5.	15.2.0	15.3.0
2018-09	RAN#81	R5-185389	0753	1	Applicabilities addition of test cases 8.3.1.1.9 and 8.3.2.1.10	15.2.0	15.3.0
2018-09	RAN#81	R5-185407	0751	1	Addition of applicability for TC6.6.3.3_2	15.2.0	15.3.0
2018-09	RAN#81	R5-185428	0755	1	Applicability for New UL 256QAM test cases: 6.6.2.2_2 and	15.2.0	15.3.0
					6.6.2.3A.3_2		
2018-09	RAN#81	R5-185442	0768	-	Applicability and ICS for CA RF and RRM test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-185453	0744	1	Addition of applicability of RRM IncMon test cases	15.2.0	15.3.0
2018-09	RAN#81	R5-185528	0748	1	Table format correct and removed redundant line for RF	15.2.0	15.3.0
					clause 7 test cases		
2018-09	RAN#81	R5-185541	0742	1	Correction of applicability to TS 36.521-2 for HPUE RF test	15.2.0	15.3.0
					cases		
2018-09	RAN#81	R5-185549	0757	1	Correction to band selection criteria applicability for HPUE	15.2.0	15.3.0
					devices that support Power Class 1 & 2		

History

	Document history						
V15.2.0	July 2018	Publication					
V15.3.0	October 2018	Publication					