



**Universal Mobile Telecommunications System (UMTS);
LTE;
5G;
User Equipment (UE)
conformance specification for UE positioning;
Part 3: Implementation Conformance Statement (ICS)
(3GPP TS 37.571-3 version 16.11.0 Release 16)**



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Foreword

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

The present document is part 3 of a multi-parts TS:

3GPP TS 37.571-1: User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification.

3GPP TS 37.571-2: User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance.

3GPP TS 37.571-3: User Equipment (UE) conformance specification for UE positioning; Part 3: Implementation Conformance Statement (ICS).

3GPP TS 37.571-4: User Equipment (UE) conformance specification for UE positioning; Part 4: Test suites.

3GPP TS 37.571-5: User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data.

1 Scope

The present document provides the Implementation Conformance Statement (ICS) proforma for UTRAN, E-UTRAN and NR User Equipment (UE) supporting UE positioning, in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-1 [7] and ISO/IEC 9646-7 [8].

The present document also specifies a recommended applicability statement for the test cases included in 3GPP TS 37.571-1 [5] and 3GPP TS 37.571-2 [6]. These applicability statements are based on the features implemented in the UE.

Special conformance testing functions can be found in 3GPP TS 34.109 [10] for UTRA, 3GPP TS 36.509 [2] for E-UTRA and 3GPP TS 38.509 [14] for NR. The common test environments are included in 3GPP TS 34.108 [9] for UTRA, in 3GPP TS 36.508 [3] for E-UTRA and in 3GPP TS 38.508-1 [15] for NR.

The present document is valid for UE supporting UE positioning implemented according to 3GPP releases starting from Release 99 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 TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 36.509: "Special conformance testing functions for User Equipment".
- [3] 3GPP TS 36.508: "Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); Common Test Environments for User Equipment (UE) Conformance Testing".
- [4] 3GPP TS 36.355: "Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol (LPP)".
- [5] 3GPP TS 37.571-1: "User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification".
- [6] 3GPP TS 37.571-2: "User Equipment (UE) conformance specification for UE positioning; Part 2: Protocol conformance".
- [7] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [8] ISO/IEC 9646-7: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [9] 3GPP TS 34.108: "Common Test Environments for User Equipment (UE) Conformance Testing".
- [10] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".
- [11] 3GPP TS 36.523-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

- [12] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [13] 3GPP TS 36.306: "Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio access capabilities".
- [14] 3GPP TS 38.509: "Special conformance testing functions for User Equipment (UE)".
- [15] 3GPP TS 38.508-1: "User Equipment (UE) conformance specification; Part 1: Common test environment".
- [16] 3GPP TS 38.508-2: "5GS; UE conformance specification; Part 2: Common Implementation Conformance Statement (ICS) proforma".
- [17] 3GPP TS 37.355: "LTE Positioning Protocol (LPP)".
- [18] 3GPP TS 38.215: "NR; Physical layer measurements".

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[1]
- such given in ISO/IEC 9646-1 [7] and ISO/IEC 9646-7 [8]

NOTE: Some terms and abbreviations defined in [7] and [8] are explicitly included below with small modification to reflect the terminology used in 3GPP.

3.1 Definitions

Implementation Conformance Statement (ICS): A 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: A 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 following abbreviations apply:

A-BDS	Assisted-BeiDou Navigation Satellite System
A-Galileo	Assisted- Galileo
A-GANSS	Assisted- Galileo and Additional Navigation Satellite Systems
A-GLONASS	Assisted- GLObal'naya NAVigatsionnaya Sputnikovaya Sistema (English: Global Navigation Satellite System)
A-GNSS	Assisted - Global Navigation Satellite System
A-GPS	Assisted - Global Positioning System
AP	Access Point
A-QZSS	Assisted- Quasi-Zenith Satellite System
A-SBAS	Assisted- Space Based Augmentation System
BDS	BeiDou Navigation Satellite System
BLE	Bluetooth Low Energy
C/A	Coarse/Acquisition
DL-AoD	Downlink Angle-of-Departure
DL-TDOA	Downlink Time Difference Of Arrival
DUT	Device Under Test
E-CID	Enhanced Cell-ID (positioning method)
eFDD	Enhanced Frequency Division Duplex
ENB	Evolved Node B
EN-DC	E-UTRA-NR Dual Connectivity
eTDD	Enhanced Time Division Duplex
E-UTRA	Evolved UMTS Terrestrial Radio Access
E-UTRAN	Evolved UMTS Terrestrial Radio Access Network
FDD	Frequency Division Duplex
FFS	For Further Study
GANSS	Galileo and Additional Navigation Satellite Systems
GLONASS	GLObal'naya NAVigatsionnaya Sputnikovaya Sistema (English: Global Navigation Satellite System)
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
ICS	Implementation Conformance Statement
IXIT	Implementation eXtra Information for Testing
LPP	LTE Positioning Protocol
MBS	Metropolitan Beacon System
MO-LR	Mobile Originated Location Request
Multi-RTT	Multi-Round Trip Time
MT-LR	Mobile Terminated Location Request
NE-DC	NR-E-UTRA Dual Connectivity
NGEN-DC	NG-RAN E-UTRA-NR Dual Connectivity
NR E-CID	NR Enhanced Cell ID (positioning method)
NG-RAN	NextGen Radio Access Network
NR	New Radio
NR-DC	NR-NR Dual Connectivity
OTDOA	Observed Time Difference Of Arrival
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
QZSS	Quasi-Zenith Satellite System
RRC	Radio Resource Control
RSTD	Reference Signal Time Difference
SBAS	Space Based Augmentation System
SCS	System Conformance Statement
TC	Test Case
TDD	Time Division Duplex

UE	User Equipment
UEUT	User Equipment Under Test
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network
WLAN	Wireless Local Area Network

4 Recommended Test Case Applicability

The applicability of each individual test is identified in Table 4-1 (UTRA), 4 -3 and 4-3a (E-UTRA) and 4-11 (NR) for test cases in TS 37.571-1 [5] and in Table 4-5 (UTRA), 4-7 (E-UTRA) and 4-9 (NR) for test cases in TS 37.571-2 [6]. 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.

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, 4-3, 4-3a, 4-5, 4-7, 4-9 and 4-11 have the following meaning:

Clause

The clause column indicates the clause number in TS 37.571-1 [5] and TS 37.571-2 [6] 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 37.571-1 [5] and TS 37.571-2 [6] that contains the test body.

Applicability - Condition

The following notations are used for the applicability column:

R	recommended - the test case is recommended
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.

NOTE: The conditions are defined in Table 4-2, 4-4, 4-6, 4-8, 4-10 and 4-12.

Applicability - Comments

This column contains a verbal description of the condition.

Additional Information - Specific ICS

This column contains the mnemonics of ICS(s) affecting the dynamic behaviour of the TC.

NOTE: ICS items specified in 3GPP TS 36.523-2 [11] can be referred, to avoid redundant definitions.

Additional Information - Specific IXIT

This column contains the mnemonics of IXIT(s) affecting the dynamic behaviour of the TC.

The columns in Tables 4-1 and 4-5 have the following meaning:

Release

The release column indicates the earliest release from which the test case is applicable.

The columns in Tables 4-3, 4-3a, 4-7, 4-9, and 4-11 have the following meaning:

Release of LPP

The Release of LPP column indicates the earliest release of the positioning functionality in LPP (3GPP TS 36.355 [4] and 3GPP TS 37.355 [17]) from which the test case is applicable. Note that the release of the positioning functionality does not have to align with that of the RAT bearer.

Release RAT

The Release RAT column indicates the earliest release of the RAT bearer over which the test should be conducted. Note that the release of the positioning functionality does not have to align with that of the RAT bearer.

NOTE: 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 OTDOA and ECID test cases in table 4-3a. 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 8.1.1 the 2Rx and 4Rx branches can be identified by "8.1.1_2Rx" and "8.1.1_4Rx".

Table 4-1: Applicability of tests and additional information for testing for test cases in TS 37.571-1 [5] for UTRA

Clause	Title	Release	Applicability	Comments
5.2.1	Sensitivity Coarse Time Assistance	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A or UE-Assisted A-GPS L1 C/A
5.2.2	Sensitivity Fine Time Assistance	Rel-6	C02ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A or UE-Assisted A-GPS L1 C/A and Fine Time Assistance
5.3	Nominal Accuracy	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A or UE-Assisted A-GPS L1 C/A
5.4	Dynamic Range	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A or UE-Assisted A-GPS L1 C/A
5.5	Multi-path Performance	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A or UE-Assisted A-GPS L1 C/A
5.6	Moving Scenario and Periodic Update Performance	Rel-6	C01ur	All UEs supporting FDD and UE-Based A-GPS L1 C/A or UE-Assisted A-GPS L1 C/A
6.2.1-1	Sensitivity Coarse Time Assistance: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS
6.2.1-2	Sensitivity Coarse Time Assistance: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo
6.2.1-3	Sensitivity Coarse Time Assistance: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS or UE-Assisted A-GPS and A-GANSS with Modernized GPS
6.2.1-4	Sensitivity Coarse Time Assistance: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS or UE-Assisted A-GPS and A-GANSS with GLONASS
6.2.1-8	Sensitivity Coarse Time Assistance: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo or UE-Assisted A-GPS and A-GANSS with Galileo
6.2.1-9	Sensitivity Coarse Time Assistance: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS
6.2.1-10	Sensitivity Coarse Time Assistance: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS or UE-Assisted A-GPS and A-GANSS with BDS
6.2.2-1	Sensitivity Fine Time Assistance: Sub-Test 1	Rel-10	C04-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS and Fine Time Assistance
6.2.2-2	Sensitivity Fine Time Assistance: Sub-Test 2	Rel-12	C04-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo and Fine Time Assistance
6.2.2-3	Sensitivity Fine Time Assistance: Sub-Test 3	Rel-10	C04-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS or UE-Assisted A-GPS and A-GANSS with Modernized GPS and Fine Time Assistance
6.2.2-4	Sensitivity Fine Time Assistance: Sub-Test 4	Rel-10	C04-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS or UE-Assisted A-GPS and A-GANSS with GLONASS and Fine Time Assistance
6.2.2-8	Sensitivity Fine Time Assistance: Sub-Test 8	Rel-12	C04-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo or UE-Assisted A-GPS and A-GANSS with Galileo and Fine Time Assistance
6.2.2-9	Sensitivity Fine Time Assistance: Sub-Test 9	Rel-12	C04-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS and Fine Time Assistance
6.2.2-10	Sensitivity Fine Time Assistance: Sub-Test 10	Rel-12	C04-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS or UE-Assisted A-GPS and A-GANSS with BDS and Fine Time Assistance
6.3-1	Nominal Accuracy: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS

Clause	Title	Release	Applicability	Comments
6.3-2	Nominal Accuracy: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo
6.3-3	Nominal Accuracy: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS or UE-Assisted A-GPS and A-GANSS with Modernized GPS
6.3-4	Nominal Accuracy: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS or UE-Assisted A-GPS and A-GANSS with GLONASS
6.3-8	Nominal Accuracy: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo or UE-Assisted A-GPS and A-GANSS with Galileo
6.3-9	Nominal Accuracy: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS
6.3-10	Nominal Accuracy: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS or UE-Assisted A-GPS and A-GANSS with BDS
6.4-1	Dynamic Range: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS
6.4-2	Dynamic Range: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo
6.4-3	Dynamic Range: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS or UE-Assisted A-GPS and A-GANSS with Modernized GPS
6.4-4	Dynamic Range: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS or UE-Assisted A-GPS and A-GANSS with GLONASS
6.4-8	Dynamic Range: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo or UE-Assisted A-GPS and A-GANSS with Galileo
6.4-9	Dynamic Range: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS
6.4-10	Dynamic Range: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS or UE-Assisted A-GPS and A-GANSS with BDS
6.5-1	Multi-path Performance: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS
6.5-2	Multi-path Performance: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo
6.5-3	Multi-path Performance: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS or UE-Assisted A-GPS and A-GANSS with Modernized GPS
6.5-4	Multi-path Performance: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS or UE-Assisted A-GPS and A-GANSS with GLONASS
6.5-8	Multi-path Performance: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo or UE-Assisted A-GPS and A-GANSS with Galileo
6.5-9	Multi-path Performance: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS
6.5-10	Multi-path Performance: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS or UE-Assisted A-GPS and A-GANSS with BDS
6.6-1	Moving Scenario and Periodic Update Performance: Sub-Test 1	Rel-10	C03-1ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with GLONASS

Clause	Title	Release	Applicability	Comments
6.6-2	Moving Scenario and Periodic Update Performance: Sub-Test 2	Rel-12	C03-2ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with Galileo
6.6-3	Moving Scenario and Periodic Update Performance: Sub-Test 3	Rel-10	C03-3ur	All UEs supporting UE-Based A-GPS and A-GANSS with Modernized GPS or UE-Assisted A-GPS and A-GANSS with Modernized GPS
6.6-4	Moving Scenario and Periodic Update Performance: Sub-Test 4	Rel-10	C03-4ur	All UEs supporting UE-Based A-GPS and A-GANSS with GLONASS or UE-Assisted A-GPS and A-GANSS with GLONASS
6.6-8	Moving Scenario and Periodic Update Performance: Sub-Test 8	Rel-12	C03-8ur	All UEs supporting UE-Based A-GPS and A-GANSS with Galileo or UE-Assisted A-GPS and A-GANSS with Galileo
6.6-9	Moving Scenario and Periodic Update Performance: Sub-Test 9	Rel-12	C03-9ur	All UEs supporting UE-Based A-GANSS or UE-Assisted A-GANSS with BDS
6.6-10	Moving Scenario and Periodic Update Performance: Sub-Test 10	Rel-12	C03-10ur	All UEs supporting UE-Based A-GPS and A-GANSS with BDS or UE-Assisted A-GPS and A-GANSS with BDS

Table 4-2: Applicability of tests Conditions for test cases in TS 37.571-1 [5] for UTRA

C01ur IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) THEN R ELSE N/A
C02ur IF A.4.1-1/3 AND (A.4.3-1/10 OR A.4.3-1/11) AND A.4.3-1/12 THEN R ELSE N/A
C03-1ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 THEN R ELSE N/A
C03-2ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 THEN R ELSE N/A
C03-3ur IF A.4.3-1/14 THEN R ELSE N/A
C03-4ur IF A.4.3-1/15 THEN R ELSE N/A
C03-8ur IF A.4.3-1/16 THEN R ELSE N/A
C03-9ur IF A.4.3-1/13 THEN R ELSE N/A
C03-10ur IF A.4.3-1/17 THEN R ELSE N/A
C04-1ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/7 AND A.4.3-1/12 THEN R ELSE N/A
C04-2ur IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/9 AND A.4.3-1/12 THEN R ELSE N/A
C04-3ur IF A.4.3-1/14 AND A.4.3-1/12 THEN R ELSE N/A
C04-4ur IF A.4.3-1/15 AND A.4.3-1/12 THEN R ELSE N/A
C04-8ur IF A.4.3-1/16 AND A.4.3-1/12 THEN R ELSE N/A
C04-9ur IF A.4.3-1/13 AND A.4.3-1/12 THEN R ELSE N/A
C04-10ur IF A.4.3-1/17 AND A.4.3-1/12 THEN R ELSE N/A

Table 4-3: Applicability of tests and additional information for testing for RAT-independent test cases in TS 37.571-1 [5] for E-UTRA

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7	A-GNSS minimum performance requirements							
7.1.1-1	Sensitivity Coarse Time Assistance: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-2	Sensitivity Coarse Time Assistance: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-3	Sensitivity Coarse Time Assistance: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-4	Sensitivity Coarse Time Assistance: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-5	Sensitivity Coarse Time Assistance: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-8	Sensitivity Coarse Time Assistance: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-9	Sensitivity Coarse Time Assistance: Sub-Test 9	Rel-12	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-10	Sensitivity Coarse Time Assistance: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-11	Sensitivity Coarse Time Assistance: Sub-Test	Rel-12	C32er	All LTE UEs except	pc_eFDD			Rel-9

	11			Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 5)	pc_eTDD			Rel-9
7.1.1-12	Sensitivity Coarse Time Assistance: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.1-13	Sensitivity Coarse Time Assistance: Sub-Test 13	Rel-12	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-1	Sensitivity Fine Time Assistance: Sub-Test 1	Rel-9	C06er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-2	Sensitivity Fine Time Assistance: Sub-Test 2	Rel-9	C07er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-3	Sensitivity Fine Time Assistance: Sub-Test 3	Rel-12	C08er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-4	Sensitivity Fine Time Assistance: Sub-Test 4	Rel-9	C09er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-5	Sensitivity Fine Time Assistance: Sub-Test 5	Rel-9	C10er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-8	Sensitivity Fine Time Assistance: Sub-Test 8	Rel-12	C30er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo, and Fine Time Assistance	pc_eTDD			Rel-9
7.1.2-9	Sensitivity Fine Time Assistance: Sub-Test 9	Rel-12	C23er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS, and Fine Time Assistance (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-10	Sensitivity Fine Time Assistance: Sub-Test 10	Rel-12	C24er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS, and Fine Time Assistance (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-11	Sensitivity Fine Time Assistance: Sub-Test 11	Rel-12	C33er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS, and Fine Time Assistance (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-12	Sensitivity Fine Time Assistance: Sub-Test 12	Rel-12	C81er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS, and Fine Time Assistance	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.1.2-13	Sensitivity Fine Time Assistance: Sub-Test 13	Rel-12	C82er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS, and Fine Time Assistance (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-1	Nominal Accuracy: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-2	Nominal Accuracy: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

7.2-3	Nominal Accuracy: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-4	Nominal Accuracy: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-5	Nominal Accuracy: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLOASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-8	Nominal Accuracy: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-9	Nominal Accuracy: Sub-Test 9	Rel-12	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-10	Nominal Accuracy: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-11	Nominal Accuracy: Sub-Test 11	Rel-12	C32er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLOASS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-12	Nominal Accuracy: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLOASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2-13	Nominal Accuracy: Sub-Test 13	Rel-12	C80er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 5)	pc_eTDD			Rel-9
7.3-1	Dynamic Range: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-2	Dynamic Range: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-3	Dynamic Range: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-4	Dynamic Range: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-5	Dynamic Range: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-8	Dynamic Range: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-9	Dynamic Range: Sub-Test 9	Rel-12	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-10	Dynamic Range: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-11	Dynamic Range: Sub-Test 11	Rel-12	C32er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 5)	pc_eTDD			Rel-9
7.3-12	Dynamic Range: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3-13	Dynamic Range: Sub-Test 13	Rel-12	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-1	Multi-path scenario: Sub-Test 1	Rel-9	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-2	Multi-path scenario: Sub-Test 2	Rel-9	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-3	Multi-path scenario: Sub-Test 3	Rel-12	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-4	Multi-path scenario: Sub-Test 4	Rel-9	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-5	Multi-path scenario: Sub-Test 5	Rel-9	C05er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-8	Multi-path scenario: Sub-Test 8	Rel-12	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-9	Multi-path scenario: Sub-Test 9	Rel-12	C19er	All LTE UEs except	pc_eFDD			Rel-9

				Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS (Note 5)	pc_eTDD			Rel-9
7.4-10	Multi-path scenario: Sub-Test 10	Rel-12	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-11	Multi-path scenario: Sub-Test 11	Rel-12	C32er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-12	Multi-path scenario: Sub-Test 12	Rel-12	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4-13	Multi-path scenario: Sub-Test 13	Rel-12	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-1	Moving scenario and periodic update: Sub-Test 1 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C01er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-2	Moving scenario and periodic update: Sub-Test 2 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C02er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-3	Moving scenario and periodic update: Sub-Test 3 (Rel-9 to Rel-13)	Rel-12, Rel-13	C03er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-4	Moving scenario and periodic update: Sub-Test 4 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C04er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-5	Moving scenario and periodic update: Sub-Test	Rel-9,	C05er	All LTE UEs except	pc_eFDD			Rel-9

	5 (Rel-9 to Rel-13)	Rel-10, Rel-11, Rel-12, Rel-13		Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS	pc_eTDD			Rel-9
7.5-8	Moving scenario and periodic update: Sub-Test 8 (Rel-9 to Rel-13)	Rel-12, Rel-13	C29er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-9	Moving scenario and periodic update: Sub-Test 9 (Rel-9 to Rel-13)	Rel-12, Rel-13	C19er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-10	Moving scenario and periodic update: Sub-Test 10 (Rel-9 to Rel-13)	Rel-12, Rel-13	C20er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-11	Moving scenario and periodic update: Sub-Test 11 (Rel-9 to Rel-13)	Rel-12, Rel-13	C32er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-12	Moving scenario and periodic update: Sub-Test 12 (Rel-9 to Rel-13)	Rel-12, Rel-13	C79er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5-13	Moving scenario and periodic update: Sub-Test 13 (Rel-9 to Rel-13)	Rel-12, Rel-13	C80er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-1	Moving scenario and periodic update: Sub-Test 1 (Rel-14 onwards)	Rel-14	C34er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS L1C/A and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-2		Rel-14	C35er		pc_eFDD			Rel-9

	Moving scenario and periodic update: Sub-Test 2 (Rel-14 onwards)			All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GLONASS and periodical reporting	pc_eTDD			Rel-9
7.5A-3	Moving scenario and periodic update: Sub-Test 3 (Rel-14 onwards)	Rel-14	C36er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-Galileo and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-4	Moving scenario and periodic update: Sub-Test 4 (Rel-14 onwards)	Rel-14	C37er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS and Modernized GPS and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-5	Moving scenario and periodic update: Sub-Test 5 (Rel-14 onwards)	Rel-14	C38er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-8	Moving scenario and periodic update: Sub-Test 8 (Rel-14 onwards)	Rel-14	C39er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-9	Moving scenario and periodic update: Sub-Test 9 (Rel-14 onwards)	Rel-14	C40er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-BDS and periodical reporting (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A.10	Moving scenario and periodic update: Sub-Test 10 (Rel-14 onwards)	Rel-14	C41er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-BDS and periodical reporting (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A.11	Moving scenario and periodic update: Sub-Test 11 (Rel-14 onwards)	Rel-14	C85er	All LTE UEs except Cat M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS and periodical reporting (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

7.5A-12	Moving scenario and periodic update: Sub-Test 12 (Rel-14 onwards)	Rel-14	C83er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLOASS and periodical reporting	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5A-13	Moving scenario and periodic update: Sub-Test 13 (Rel-14 onwards)	Rel-14	C84er	All LTE UEs except Category M1/M2 UEs not supporting VoLTE. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS and periodical reporting (Note 5)	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
11	E-UTRA MBS measurement requirements <small>Note 4</small>							
11.1	MBS Measurement Reporting Delay (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.1A	MBS Measurement Reporting Delay (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.2	MBS Sensitivity Measurement Accuracy (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.2A	MBS Sensitivity Measurement Accuracy (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.3	MBS Nominal Measurement Accuracy (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.3A	MBS Nominal Measurement Accuracy (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.4	MBS Dynamic Range Measurement Accuracy (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.4A	MBS Dynamic Range Measurement Accuracy (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.5	MBS Measurement Accuracy in Multipath (Release 13 only)	Rel-13 only	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
11.5A	MBS Measurement Accuracy in Multipath (Release 14 onwards)	Rel-14	C31er	All UEs supporting UE-Assisted MBS	pc_eFDD			Rel-9
12	E-UTRA WLAN and BLE measurement requirements							
12.1.1	WLAN AP Identification and reporting delay under nominal conditions	Rel-14 (Note 3)	C42er	All LTE UEs supporting UE-Assisted WLAN	pc_eFDD			Rel-9
12.1.2	WLAN AP Identification and reporting delay under dynamic range conditions	Rel-14 (Note 3)	C42er	All LTE UEs supporting UE-Assisted WLAN	pc_eFDD			Rel-9
12.2.1	Bluetooth identification	Rel-14 (Note 3)	C43er	All LTE UEs supporting UE-Assisted Bluetooth	pc_eFDD			Rel-9
					pc_eTDD			

Note 1: Void

Note 2: Void

Note 3: This test case can be optionally tested for Rel-9 UEs supporting LPP Rel-13 features for WLAN and BLE measurements.

Note 4: For MBS, the test requirements in TS 37.571-1 [5] clause 11 applies to both E-UTRA and NR. The applicabilities of the test cases for NR are shown in Table 4-11.

Note 5: If the signal type for BDS supported by the UE includes B1C then Rel-16 of LPP is required.

Table 4-3a: Applicability of tests and additional information for testing for RAT-dependent test cases in TS 37.571-1 [5] for E-UTRA

Clause	TC Title	Release of LPP	Applicability		Additional Information				
			Condition	Comment	Specific ICS	Specific IXIT	Branch	Number of TC Executions	Release RAT
8	E-CID measurement requirements								
8.1.1	FDD UE Rx-Tx time difference case (Rel-9 to Rel-11)	Rel-9	C11er	All FDD UEs supporting E-CID with Rx-Tx time difference	pc_eFDD		2Rx, 4Rx		Rel-9, Rel-10, Rel-11
8.1.1A	FDD UE Rx-Tx time difference case (Rel-12 onwards)	Rel-9	C11er	All FDD UEs supporting E-CID with Rx-Tx time difference	pc_eFDD		2Rx, 4Rx		Rel-12
8.1.1B	FDD UE Rx-Tx time difference case for UE Category 1bis	Rel-9	C77er	Category 1bis FDD UEs supporting E-CID with Rx-Tx time difference	pc_eFDD				Rel-13
8.1.2	TDD UE Rx-Tx time difference case (Rel-9 to Rel-11)	Rel-13	C12er	All TDD UEs supporting E-CID with Rx-Tx time difference	pc_eTDD		2Rx, 4Rx		Rel-9, Rel-10, Rel-11
8.1.2A	TDD UE Rx-Tx time difference case (Rel-12 onwards)	Rel-13	C12er	All TDD UEs supporting E-CID with Rx-Tx time difference	pc_eTDD		2Rx, 4Rx		Rel-12
8.1.2B	FDD UE Rx-Tx time difference case for UE Category 1bis	Rel-13	C78er	Category 1bis TDD UEs supporting E-CID with Rx-Tx time difference	pc_eTDD				Rel-13
8.1.3	E-UTRAN FDD UE Rx-Tx Time Difference under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-9	C25er	All FDD UEs supporting E-CID with Rx-Tx time difference and Feature Group Indictor 115	pc_eFDD				Rel-10
8.1.4	E-UTRAN TDD UE Rx-Tx Time Difference under Time-Domain Measurement Resource Restriction with Non-MBSFN ABS (eICIC)	Rel-13	C26er	All TDD UEs supporting E-CID with Rx-Tx time difference and Feature Group Indictor 115	pc_eTDD				Rel-10
8.1.5	E-UTRAN FDD UE Rx-Tx time difference under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (fICIC)	Rel-9	C21er	All FDD UEs supporting E-CID with Rx-Tx time difference and CRS interference handling and Feature Group Indictor 115	pc_eFDD				Rel-11
8.1.6	E-UTRAN TDD UE Rx-Tx time difference under Time Domain Measurement Resource Restriction with CRS Assistance Information and Non-MBSFN ABS (fICIC)	Rel-13	C22er	All TDD UEs supporting E-CID with Rx-Tx time difference and CRS interference handling and ss-CCH interference handling and Feature Group Indictor 115	pc_eTDD				Rel-11
8.1.7	E-UTRAN FDD UE Rx-Tx time difference case for Category M1/M2 UE in CEModeA	Rel-13	C72er	All FDD Category M1/M2 UEs supporting E-CID with Rx-Tx time difference	pc_eFDD				Rel-14

8.1.8	E-UTRAN HD-FDD UE Rx-Tx time difference case for Category M1/M2 UE in CEModeA	Rel-13	C73er	All HD-FDD Category M1/M2 UEs supporting E-CID with Rx-Tx time difference	pc_eFDD				Rel-14
8.1.9	E-UTRAN TDD UE Rx-Tx time difference case for Category M1/M2 UE in CEModeA	Rel-13	C74er	All TDD Category M1/M2 UEs supporting E-CID with Rx-Tx time difference	pc_eTDD				Rel-14
9	OTDOA measurement requirements								
9.1.1	FDD RSTD Measurement Reporting Delay	Rel-9	C13er	All FDD UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-9
9.1.1A	FDD RSTD Measurement Reporting Delay for UE Category 1bis	Rel-9	C44er	Category 1bis FDD UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-13 (Note 3)
9.1.2	TDD RSTD Measurement Reporting Delay	Rel-9	C14er	All TDD UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-9
9.1.2A	TDD RSTD Measurement Reporting Delay for UE Category 1bis	Rel-9	C45er	Category 1bis TDD UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-13 (Note 3)
9.1.3	FDD RSTD Measurement Accuracy	Rel-9	C13er	All FDD UEs supporting UE-assisted OTDOA	pc_eFDD		2Rx, 4Rx		Rel-9
9.1.3A	FDD RSTD Measurement Accuracy for UE Category 1bis	Rel-9	C44er	Category 1bis FDD UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-13 (Note 3)
9.1.4	TDD RSTD Measurement Accuracy	Rel-9	C14er	All TDD UEs supporting UE-assisted OTDOA	pc_eTDD		2Rx, 4Rx		Rel-9
9.1.4A	TDD RSTD Measurement Accuracy for UE Category 1bis	Rel-9	C45er	Category 1bis TDD UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-13 (Note 3)
9.2.1	FDD-FDD inter-frequency RSTD measurement reporting delay	Rel-10	C17er	All FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-10 (Note 1)
9.2.1A	FDD-FDD inter-frequency RSTD measurement reporting delay for UE Category 1bis	Rel-14	C46er	Category 1bis FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-13 (Note 1, 3)
9.2.2	TDD-TDD inter-frequency RSTD measurement reporting delay	Rel-10	C18er	All TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-10 (Note 1)
9.2.2A	TDD-TDD inter-frequency RSTD measurement reporting delay for UE Category 1bis	Rel-14	C47er	Category 1bis TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-13 (Note 1, 3)
9.2.4	FDD-FDD inter-frequency RSTD Accuracy	Rel-10	C17er	All FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD		2Rx, 4Rx		Rel-10 (Note 1)

9.2.4A	FDD-FDD inter-frequency RSTD Accuracy for UE Category 1bis	Rel-10	C46er	Category 1bis FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-13 (Note 1, 3)
9.2.5	TDD-TDD inter-frequency RSTD Accuracy	Rel-10	C18er	All TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD		2Rx, 4Rx		Rel-10 (Note 1)
9.2.5A	TDD-TDD inter-frequency RSTD Accuracy for UE Category 1bis	Rel-10	C47er	Category 1bis TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-13 (Note 1, 3)
9.3.1.1	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C48er	All FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.1.2	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C60er	All FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.2.1	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C49er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.2.2	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C61er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.3.1	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C50er	All TDD Category M1 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.3.2	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C62er	All TDD Category M2 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.4.1	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C51er	All FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.4.2	FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C63er	All FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.5.1	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C52er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.5.2	HD-FDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C64er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.6.1	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C53er	All TDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14

9.3.6.2	TDD intra-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C65er	All TDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14
9.3.7.1	FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C48er	All FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.7.2	FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C60er	All FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.8.1	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C49er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.8.2	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C61er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA	pc_eFDD				Rel-14
9.3.9.1	TDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C50er	All TDD Category M1 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.9.2	TDD intra-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C62er	All TDD Category M2 UEs supporting UE-assisted OTDOA	pc_eTDD				Rel-14
9.3.10.1	FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C51er	All FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.10.2	FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C63er	All FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.11.1	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C52er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.11.2	HD-FDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C64er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eFDD				Rel-14
9.3.12.1	TDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C53er	All TDD Category M1 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14
9.3.12.2	TDD intra-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C65er	All TDD Category M2 UEs supporting UE-assisted OTDOA and CE Mode B	pc_eTDD				Rel-14
9.3.13	E-UTRAN FDD intra-frequency RSTD measurement period test case in CE Mode A with longer PRS occasions	Rel-15	C88er	All FDD Category M1 or M2 UEs supporting UE-assisted OTDOA and additional PRS config or dense PRS config	pc_eFDD				Rel-15

9.3.14	E-UTRAN HD-FDD intra-frequency RSTD measurement period test case in CE Mode A with longer PRS occasions	Rel-15	C89er	All HD-FDD Category M1 or M2 UEs supporting UE-assisted OTDOA and additional PRS config or dense PRS config	pc_eFDD					Rel-15
9.3.15	E-UTRAN TDD intra-frequency RSTD measurement period test case in CE Mode A with longer PRS occasions	Rel-15	C90er	All TDD Category M1 or M2 UEs supporting UE-assisted OTDOA and additional PRS config or dense PRS config	pc_eTDD					Rel-15
9.3.16	E-UTRAN FDD intra-frequency RSTD measurement period test case in CE Mode B with longer PRS occasions	Rel-15	C91er	All FDD Category M1 or M2 UEs supporting UE-assisted OTDOA and additional PRS config or dense PRS config and CE Mode B	pc_eFDD					Rel-15
9.3.17	E-UTRAN HD-FDD intra-frequency RSTD measurement period test case in CE Mode B with longer PRS occasions	Rel-15	C92er	All HD-FDD Category M1 or M2 UEs supporting UE-assisted OTDOA and additional PRS config or dense PRS config and CE Mode B	pc_eFDD					Rel-15
9.3.18	E-UTRAN TDD intra-frequency RSTD measurement period test case in CE Mode B with longer PRS occasions	Rel-15	C93er	All TDD Category M1 or M2 UEs supporting UE-assisted OTDOA and additional PRS config or dense PRS config and CE Mode B	pc_eTDD					Rel-15
9.4.1.1	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C54er	All FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14	
9.4.1.2	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C66er	All FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14	
9.4.2.1	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C55er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14	
9.4.2.2	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C67er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14	

9.4.3.1	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M1	Rel-13	C56er	All TDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.3.2	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode A for Category M2	Rel-13	C68er	All TDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.4.1	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C57er	All FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.4.2	FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C69er	All FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.5.1	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C58er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.5.2	HD-FDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C70er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.6.1	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M1	Rel-13	C59er	All TDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.6.2	TDD inter-frequency RSTD Measurement Reporting Delay in CE Mode B for Category M2	Rel-13	C71er	All TDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.7.1	FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C54er	All FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14

9.4.7.2	FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C66er	All FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.8.1	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C55er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.8.2	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C67er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.9.1	TDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M1	Rel-13	C56er	All TDD Category M1 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.9.2	TDD inter-frequency RSTD Measurement Accuracy in CE Mode A for Category M2	Rel-13	C68er	All TDD Category M2 UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.10.1	FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C57er	All FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.10.2	FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C69er	All FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.11.1	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C58er	All HD-FDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14
9.4.11.2	HD-FDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C70er	All HD-FDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eFDD				Rel-14

9.4.12.1	TDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M1	Rel-13	C59er	All TDD Category M1 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.12.2	TDD inter-frequency RSTD Measurement Accuracy in CE Mode B for Category M2	Rel-13	C71er	All TDD Category M2 UEs supporting UE-assisted OTDOA, CE Mode B and inter-frequency RSTD measurements	pc_eTDD				Rel-14
9.4.13	E-UTRAN FDD inter-frequency RSTD measurement period test case in CE Mode A with longer PRS occasions	Rel-15	C94er	All FDD Category M1 or M2 UEs supporting UE-assisted OTDOA, inter-frequency RSTD measurements and additional PRS config or dense PRS config	pc_eFDD				Rel-15
9.4.14	E-UTRAN HD-FDD inter-frequency RSTD measurement period test case in CE Mode A with longer PRS occasions	Rel-15	C95er	All HD-FDD Category M1 or M2 UEs supporting UE-assisted OTDOA, inter-frequency RSTD measurements and additional PRS config or dense PRS config	pc_eFDD				Rel-15
9.4.15	E-UTRAN TDD inter-frequency RSTD measurement period test case in CE Mode A with longer PRS occasions	Rel-15	C96er	All TDD Category M1 or M2 UEs supporting UE-assisted OTDOA, inter-frequency RSTD measurements and additional PRS config or dense PRS config	pc_eTDD				Rel-15
9.4.16	E-UTRAN FDD inter-frequency RSTD measurement period test case in CE Mode B with longer PRS occasions	Rel-15	C97er	All FDD Category M1 or M2 UEs supporting UE-assisted OTDOA, inter-frequency RSTD measurements and additional PRS config or dense PRS config and CE Mode B	pc_eFDD				Rel-15
9.4.17	E-UTRAN HD-FDD inter-frequency RSTD measurement period test case in CE Mode B with longer PRS occasions	Rel-15	C98er	All HD-FDD Category M1 or M2 UEs supporting UE-assisted OTDOA, inter-frequency RSTD measurements and additional PRS config or dense PRS config and CE Mode B	pc_eFDD				Rel-15

9.4.18	E-UTRAN TDD inter-frequency RSTD measurement period test case in CE Mode B with longer PRS occasions	Rel-15	C99er	All TDD Category M1 or M2 UEs supporting UE-assisted OTDOA, inter-frequency RSTD measurements and additional PRS config or dense PRS config and CE Mode B	pc_eTDD					Rel-15
9.5.1	HD-FDD Intra frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in normal coverage	Rel-14	C75er	All NB-IoT HD-FDD UEs supporting UE-assisted OTDOA						Rel-14
9.5.2	HD-FDD Intra frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in enhanced coverage	Rel-14	C75er	All NB-IoT HD-FDD UEs supporting UE-assisted OTDOA						Rel-14
9.5.3	HD-FDD Intra frequency RSTD Measurement Reporting Delay for NB-IOT Standalone Mode in enhanced coverage	Rel-14	C75er	All NB-IoT HD-FDD UEs supporting UE-assisted OTDOA						Rel-14
9.6.1	HD-FDD Inter frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in normal coverage	Rel-14	C76er	All NB-IoT HD-FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements						Rel-14
9.6.2	HD-FDD Inter frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in enhanced coverage	Rel-14	C76er	All NB-IoT HD-FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements						Rel-14
9.6.3	HD-FDD Inter frequency RSTD Measurement Reporting Delay for NB-IOT Standalone Mode in enhanced coverage	Rel-14	C76er	All NB-IoT HD-FDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements						Rel-14
9.7.1	TDD Intra frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in normal coverage	Rel-15	C86er	All NB-IoT TDD UEs supporting UE-assisted OTDOA						Rel-15
9.7.2	TDD Intra frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in enhanced coverage	Rel-15	C86er	All NB-IoT TDD UEs supporting UE-assisted OTDOA						Rel-15
9.7.3	TDD Intra frequency RSTD Measurement Reporting Delay for NB-IOT Inband Mode in enhanced coverage	Rel-15	C86er	All NB-IoT TDD UEs supporting UE-assisted OTDOA						Rel-15
9.8.1	TDD Inter-frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in normal coverage	Rel-15	C87er	All NB-IoT TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements						Rel-15
9.8.2	TDD Inter-frequency RSTD Measurement Accuracy for NB-IOT Inband Mode in enhanced coverage	Rel-15	C87er	All NB-IoT TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements						Rel-15

9.8.3	TDD Inter frequency RSTD Measurement Reporting Delay for NB-IOT Inband Mode in enhanced coverage	Rel-15	C87er	All NB-IoT TDD UEs supporting UE-assisted OTDOA and inter-frequency RSTD measurements						Rel-15
10	OTDOA measurement requirements for Carrier Aggregation									
10.1	FDD RSTD Measurement Reporting Delay for Carrier Aggregation	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-10	
10.1A	FDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-10	
10.1B	FDD RSTD Measurement Reporting Delay Carrier Aggregation for 5 MHz +5 MHz bandwidth	Rel-12	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-10	
10.1C	FDD RSTD Measurement Reporting Delay for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-12	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD			Either TC 10.1 or TC 10.1A or TC 10.1B or TC 10.1C shall be executed. (Note 2)	Rel-11	
10.2	TDD RSTD Measurement Reporting Delay for Carrier Aggregation	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10	
10.2A	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10	

10.2B	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 5MHz +5 MHz bandwidth	Rel-12	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10
10.2C	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-12	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-11
10.2D	TDD RSTD Measurement Reporting Delay for Carrier Aggregation for 20MHz +10MHz Bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD			Either TC 10.2 or TC 10.2A or TC 10.2B or TC 10.2C or TC 10.2D shall be executed. (Note 2)	Rel-10
10.3	FDD RSTD Measurement Accuracy for Carrier Aggregation	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-10
10.3A	FDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-10 and Rel-11)	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-10, Rel-11
10.3A_1	FDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-12 onwards)	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-12

10.3B	FDD RSTD Measurement Accuracy for Carrier Aggregation for 5MHz +5 MHz bandwidth	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-10
10.3C	FDD RSTD Measurement Accuracy for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-10	C15er	All FDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eFDD		2Rx, 4Rx	Either TC 10.3 or TC 10.3A or TC 10.3A_1 or TC 10.3B or TC 10.3C shall be executed. (Note 2)	Rel-11
10.4	TDD RSTD Measurement Accuracy for Carrier Aggregation	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10
10.4A	TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-10 and Rel-11)	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10, Rel-11
10.4A_1	TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz (Rel-12 onwards)	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-12

10.4B	TDD RSTD Measurement Accuracy for Carrier Aggregation for 5 MHz +5 MHz bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10
10.4C	TDD RSTD Measurement Accuracy for Carrier Aggregation for 10MHz+5MHz bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-11
10.4D	TDD RSTD Measurement Accuracy for Carrier Aggregation for 20MHz+10MHz bandwidth	Rel-10	C16er	All TDD UEs supporting UE-assisted OTDOA for Carrier Aggregation	pc_eTDD		2Rx, 4Rx	Either TC 10.4 or TC 10.4A or TC 10.4A_1 or TC 10.4B or TC 10.4C or TC 10.4D shall be executed. (Note 2)	Rel-10
10.5	FDD 3 DL CA RSTD Measurement Reporting Delay	Rel-10	C27er	All FDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eFDD				Rel-12
10.6	TDD 3 DL CA RSTD Measurement Reporting Delay	Rel-10	C28er	All TDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eTDD				Rel-12
10.7	FDD RSTD Measurement Accuracy for 3DL Carrier Aggregation	Rel-10	C27er	All FDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eFDD		2Rx, 4Rx		Rel-12
10.8	TDD RSTD Measurement Accuracy for 3DL Carrier Aggregation	Rel-10	C28er	All TDD UEs supporting UE-assisted OTDOA for 3DL Carrier Aggregation	pc_eTDD		2Rx, 4Rx		Rel-12

Note 1: This test case can be optionally tested for Rel-9 UEs supporting inter-frequency RSTD measurements that do not require measurement gaps.

Note 2: The Carrier Aggregation TCs verify the same core requirement(s) however with different channel bandwidth configurations, this according to the guidance in TS 37.571-1, Clause 4.7.5 [5].

Note 3: This test case can be optionally tested for E-UTRA Rel-9 and forward UEs with only 1Rx antenna.

Table 4-4: Applicability of tests Conditions for test cases in TS 37.571-1 [5] for E-UTRA

C01er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 THEN R ELSE N/A
C02er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 THEN R ELSE N/A
C03er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 THEN R ELSE N/A
C04er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/8 THEN R ELSE N/A
C05er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND A.4.3-2/36 THEN R ELSE N/A
C06er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND A.4.3-2/3 THEN R ELSE N/A
C07er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 AND A.4.3-2/3 THEN R ELSE N/A
C08er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 AND A.4.3-2/3 THEN R ELSE N/A
C09er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/8 AND A.4.3-2/3 THEN R ELSE N/A
C10er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND A.4.3-2/36 AND A.4.3-2/3 THEN R ELSE N/A
C11er	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C12er	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C13er	IF A.4.1-1/1 AND A.4.3-2/4 THEN R ELSE N/A
C14er	IF A.4.1-1/2 AND A.4.3-2/4 THEN R ELSE N/A
C15er	IF A.4.1-1/1 AND A.4.3-2/15 THEN R ELSE N/A
C16er	IF A.4.1-1/2 AND A.4.3-2/15 THEN R ELSE N/A
C17er	IF A.4.1-1/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C18er	IF A.4.1-1/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C19er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/18 THEN R ELSE N/A
C20er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/38 THEN R ELSE N/A
C21er	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 AND A.4.4-2/1 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C22er	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 AND A.4.4-2/1 AND A.4.4-2/2 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C23er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/18 AND A.4.3-2/3 THEN R ELSE N/A
C24er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/38 AND A.4.3-2/3 THEN R ELSE N/A
C25er	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-4/3 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C26er	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-4/3 AND [11] A.4.5-3a/15 THEN R ELSE N/A
C27er	IF A.4.1-1/1 AND A.4.3-2/19 THEN R ELSE N/A
C28er	IF A.4.1-1/2 AND A.4.3-2/19 THEN R ELSE N/A
C29er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/37 THEN R ELSE N/A
C30er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/37 AND A.4.3-2/3 THEN R ELSE N/A
C31er	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/20 THEN R ELSE N/A
C32er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/39 THEN R ELSE N/A
C33er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/39 AND A.4.3-2/3 THEN R ELSE N/A
C34er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/6 THEN R ELSE N/A
C35er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/7 THEN R ELSE N/A
C36er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/9 THEN R ELSE N/A
C37er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/8 THEN R ELSE N/A

C38er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/36 THEN R ELSE N/A
C39er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/37 THEN R ELSE N/A
C40er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/18 THEN R ELSE N/A
C41er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/38 THEN R ELSE N/A
C42er	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/21 THEN R ELSE N/A
C43er	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/22 THEN R ELSE N/A
C44er	IF A.4.1-1/1 AND A.4.1-3/1 AND A.4.3-2/4 THEN R ELSE N/A
C45er	IF A.4.1-1/2 AND A.4.1-3/1 AND A.4.3-2/4 THEN R ELSE N/A
C46er	IF A.4.1-1/1 AND A.4.1-3/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C47er	IF A.4.1-1/2 AND A.4.1-3/1 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C48er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 THEN R ELSE N/A
C49er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 THEN R ELSE N/A
C50er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 THEN R ELSE N/A
C51er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C52er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C53er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C54er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C55er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C56er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C57er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C58er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C59er	IF A.4.1-1/2 AND A.4.1-3/2 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C60er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 THEN R ELSE N/A
C61er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 THEN R ELSE N/A
C62er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 THEN R ELSE N/A
C63er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C64er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C65er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 THEN R ELSE N/A
C66er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C67er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C68er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C69er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C70er	IF A.4.1-1/1 AND A.4.2-3/1 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C71er	IF A.4.1-1/2 AND A.4.1-3/3 AND A.4.3-2/4 AND A.4.4-1/3 AND A.4.3-2/17 THEN R ELSE N/A
C72er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C73er	IF A.4.1-1/1 AND A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C74er	IF A.4.1-1/2 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C75er	IF A.4.1-1/5 AND A.4.3-2/4 THEN R ELSE N/A
C76er	IF A.4.1-1/5 AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C77er	IF A.4.1-1/1 AND A.4.1-3/1 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A
C78er	IF A.4.1-1/2 AND A.4.1-3/1 AND A.4.3-2/5 AND A.4.3-4/3 THEN R ELSE N/A

C79er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/40 THEN R ELSE N/A
C80er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/41 THEN R ELSE N/A
C81er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/40 AND A.4.3-2/3 THEN R ELSE N/A
C82er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/41 AND A.4.3-2/3 THEN R ELSE N/A
C83er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/40 THEN R ELSE N/A
C84er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/41 THEN R ELSE N/A
C85er	IF (A.4.1-1/1 OR A.4.1-1/2 AND NOT ((A.4.1-3/2 OR A.4.1-3/3) AND NOT A.4.4-1/4)) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/39 THEN R ELSE N/A
C86er	IF A.4.1-1/5a AND A.4.3-2/4 THEN R ELSE N/A
C87er	IF A.4.1-1/5a AND A.4.3-2/4 AND A.4.3-2/17 THEN R ELSE N/A
C88er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND (A.4.3-3A/5 OR A.4.3-3A/8) THEN R ELSE N/A
C89er	IF A.4.1-1/1 AND A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND (A.4.3-3A/5 OR A.4.3-3A/8) THEN R ELSE N/A
C90er	IF A.4.1-1/2 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND (A.4.3-3A/5 OR A.4.3-3A/8) THEN R ELSE N/A
C91er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND A.4.4-1/3 AND (A.4.3-3A/5 OR A.4.3-3A/8) THEN R ELSE N/A
C92er	IF A.4.1-1/1 AND A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND A.4.4-1/3 AND (A.4.3-3A/5 OR A.4.3-3A/8) THEN R ELSE N/A
C93er	IF A.4.1-1/2 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND A.4.4-1/3 AND (A.4.3-3A/5 OR A.4.3-3A/8) THEN R ELSE N/A
C94er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND (A.4.3-3A/5 OR A.4.3-3A/8) AND A.4.3-2/17 THEN R ELSE N/A
C95er	IF A.4.1-1/1 AND A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND (A.4.3-3A/5 OR A.4.3-3A/8) AND A.4.3-2/17 THEN R ELSE N/A
C96er	IF A.4.1-1/2 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND (A.4.3-3A/5 OR A.4.3-3A/8) AND A.4.3-2/17 THEN R ELSE N/A
C97er	IF A.4.1-1/1 AND NOT A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND A.4.4-1/3 AND (A.4.3-3A/5 OR A.4.3-3A/8) AND A.4.3-2/17 THEN R ELSE N/A
C98er	IF A.4.1-1/1 AND A.4.2-3/1 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND A.4.4-1/3 AND (A.4.3-3A/5 OR A.4.3-3A/8) AND A.4.3-2/17 THEN R ELSE N/A
C99er	IF A.4.1-1/2 AND (A.4.1-3/2 OR A.4.1-3/3) AND A.4.3-2/4 AND A.4.4-1/3 AND (A.4.3-3A/5 OR A.4.3-3A/8) AND A.4.3-2/17 THEN R ELSE N/A

Table 4-5: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for UTRA

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.1.1.1	LCS Network Induced location request / UE-Based GPS / Emergency Call / with USIM	R99	C01us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.1.2	LCS Network induced location request / UE-Based GPS / Emergency call / Without USIM	R99	C01us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.1.3	LCS Network induced location request / UE-Assisted GPS / Emergency call / With USIM	R99	C03us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.1.4	LCS Network induced location request / UE-Assisted GPS / Emergency call / Without USIM	R99	C03us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS L1 C/A only	1 Execution: CS
6.1.2.1	LCS Mobile originated location request / UE-Based GPS / Position estimate request / Success	R99	C09us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for a position estimate	1 Execution: CS
6.1.2.2	LCS Mobile originated location request UE-Based or UE-Assisted GPS / Assistance data request / Success	R99	C05us	UEs supporting FDD and (UE based or UE assisted Network Assisted GPS L1 C/A only) and MO-LR request for assistance data	1 Execution: CS
6.1.2.3	LCS Mobile originated location request / UE-Assisted GPS / Position Estimate / Success	R99	C10us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MO-LR request for a position estimate	1 Execution: CS
6.1.2.4	LCS Mobile originated location request / UE-Based GPS / Transfer to third party / Success	R99	C07us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for transfer to 3rd party	1 Execution: CS
6.1.2.5	LCS Mobile originated location request / UE-Assisted GPS / Transfer to third party / Success	R99	C08us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MO-LR request for transfer to 3rd party	1 Execution: CS
6.1.2.6	LCS Mobile originated location request / UE-Based or UE-Assisted GPS / Assistance data request / Failure	R99	C05us	UEs supporting FDD and (either UE based or UE assisted Network Assisted GPS L1 C/A only) and MO-LR request for assistance data	1 Execution: CS
6.1.2.7	LCS Mobile originated location request / UE-Based GPS / Position estimate request / Failure	R99	C09us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MO-LR request for position estimate	1 Execution: CS
6.1.3.1	LCS Mobile terminated location request / UE-Based GPS	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.2	LCS Mobile terminated location request / UE-Based GPS / Request of additional assistance data / Success	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.3	LCS Mobile-terminated location request / UE-Based GPS / Failure - Not Enough Satellites	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.4	LCS Mobile terminated location request / UE-Assisted GPS / Success	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.5	LCS Mobile terminated location request / UE-Assisted GPS / Request for additional assistance data / Success	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.6	LCS Mobile terminated location request / UE-Based GPS / Privacy Verification / Location Allowed if No Response	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.7	LCS Mobile terminated location request / UE-Based GPS / Privacy Verification / Location Not Allowed if No Response	R99	C02us	UEs supporting FDD and UE based Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.1.3.8	LCS Mobile terminated location request / UE-Assisted GPS / Privacy Verification / Location Allowed if No Response	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.9	LCS Mobile terminated location request / UE-Assisted GPS / Privacy Verification / Location Not Allowed if No Response	R99	C04us	UEs supporting FDD and UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability	1 Execution: CS
6.1.3.10	LCS Mobile terminated location request / UE-Based or UE-Assisted GPS / Configuration incomplete	R99	C06us	UEs supporting FDD and UE based and/or UE assisted Network Assisted GPS L1 C/A only and MT-LR LCS location request notification capability, but not UE-based OTDOA	1 Execution: CS
6.2.1.1_1s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 1	Rel-8	C11us	UEs supporting FDD, emergency speech call and UE based Network Assisted GANSS with GLONASS only	1 Execution: CS
6.2.1.1_2s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 2	Rel-12	C12us	UEs supporting FDD, emergency speech call and UE based Network Assisted GANSS with Galileo only	1 Execution: CS
6.2.1.1_3s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 3	Rel-8	C13us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with Modernized GPS only	1 Execution: CS
6.2.1.1_4s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 4	Rel-8	C14us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with GLONASS only	1 Execution: CS
6.2.1.1_8s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 8	Rel-12	C54us	UEs supporting FDD, emergency speech call and UE based Network Assisted GPS and GANSS with Galileo only	1 Execution: CS
6.2.1.1_9s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 9	Rel-12	C40us	UEs supporting -emergency speech call and UE based Network Assisted GANSS with BDS only	1 Execution: CS
6.2.1.1_10s	NI-LR Emergency Call: UE-Based A-GNSS: Sub-test 10	Rel-12	C41us	UEs supporting emergency speech call and UE based Network Assisted GPS and GANSS with BDS only	1 Execution: CS
6.2.1.2_1s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 1	Rel-8	C15us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GANSS with GLONASS only	1 Execution: CS
6.2.1.2_2s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 2	Rel-12	C16us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GANSS with Galileo only	1 Execution: CS
6.2.1.2_3s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 3	Rel-8	C17us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with Modernized GPS only	1 Execution: CS
6.2.1.2_4s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 4	Rel-8	C18us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with GLONASS only	1 Execution: CS
6.2.1.2_8s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 8	Rel-12	C55us	UEs supporting FDD, emergency speech call and UE assisted Network Assisted GPS and GANSS with Galileo only	1 Execution: CS
6.2.1.2_9s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 9	Rel-12	C42us	UEs supporting emergency speech call and UE assisted Network Assisted GANSS with BDS only	1 Execution: CS
6.2.1.2_10s	NI-LR Emergency Call: UE-Assisted A-GNSS: Sub-test 10	Rel-12	C43us	UEs supporting emergency speech call and UE assisted Network Assisted GPS and GANSS with BDS only	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.2.1_1s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 1	Rel-8	C19us	UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_2s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 2	Rel-12	C20us	UEs supporting FDD and UE based Network Assisted GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_3s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 3	Rel-8	C21us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_4s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 4	Rel-8	C22us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_8s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 8	Rel-12	C56us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_9s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 9	Rel-12	C44us	UEs supporting UE based Network Assisted GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.1_10s	MO-LR Position Estimate: UE-Based A-GNSS: Sub-test 10	Rel-12	C45us	UEs supporting UE based Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_1s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 1	Rel-8	C23us	UEs supporting FDD and UE assisted Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_2s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 2	Rel-12	C24us	UEs supporting FDD and UE assisted Network Assisted GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_3s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 3	Rel-8	C25us	UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_4s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 4	Rel-8	C26us	UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_8s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 8	Rel-12	C57us	UEs supporting FDD and UE assisted Network Assisted GPS and GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_9s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 9	Rel-12	C46us	UEs supporting UE assisted Network Assisted GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.2_10s	MO-LR Position Estimate: UE-Assisted A-GNSS: Sub-test 10	Rel-12	C47us	UEs supporting UE assisted Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_1s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 1	Rel-8	C19us	UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_2s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 2	Rel-12	C20us	UEs supporting FDD and UE based Network Assisted GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.2.3_3s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 3	Rel-8	C21us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_4s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 4	Rel-8	C22us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_8s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 8	Rel-12	C56us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Galileo only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_9s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 9	Rel-12	C44us	UEs supporting UE based Network Assisted GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.3_10s	MO-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 10	Rel-12	C45us	UEs supporting UE based Network Assisted GPS and GANSS with BDS only and MO-LR request for a position estimate	1 Execution: CS
6.2.2.4_1s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 1	Rel-8	C27us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_2s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 2	Rel-12	C28us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_3s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 3	Rel-8	C29us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_4s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 4	Rel-8	C30us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_8s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 8	Rel-12	C58us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Galileo only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_9s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 9	Rel-12	C48us	UEs supporting (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.4_10s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Success: Sub-test 10	Rel-12	C49us	UEs supporting ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_1s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 1	Rel-8	C27us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_2s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 2	Rel-12	C28us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only and MO-LR request for assistance data	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.2.5_3s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 3	Rel-8	C29us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_4s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 4	Rel-8	C30us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_8s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 8	Rel-12	C58us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Galileo only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_9s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 9	Rel-12	C48us	UEs supporting (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.2.5_10s	MO-LR Assistance Data: UE-Based or UE-Assisted A-GNSS - Failure: Sub-test 10	Rel-12	C49us	UEs supporting ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only and MO-LR request for assistance data	1 Execution: CS
6.2.3.1_1s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 1	Rel-8	C35us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with GLONASS only	1 Execution: CS
6.2.3.1_2s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 2	Rel-12	C36us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with Galileo only	1 Execution: CS
6.2.3.1_3s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 3	Rel-8	C37us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Modernized GPS only	1 Execution: CS
6.2.3.1_4s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 4	Rel-8	C38us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with GLONASS only	1 Execution: CS
6.2.3.1_8s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 8	Rel-12	C59us	UEs supporting FDD and ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with Galileo only	1 Execution: CS
6.2.3.1_9s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 9	Rel-12	C52us	UEs supporting (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) with BDS only	1 Execution: CS
6.2.3.1_10s	MT-LR UE Based or UE-Assisted A-GNSS - Request for additional assistance data/Success: Sub-test 10	Rel-12	C53us	UEs supporting ((UE assisted Network Assisted GPS and GANSS) or (UE based Network Assisted GPS and GANSS)) with BDS only	1 Execution: CS
6.2.3.2_1s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 1	Rel-8	C31us	UEs supporting FDD and UE based Network Assisted GANSS with GLONASS only	1 Execution: CS
6.2.3.2_2s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 2	Rel-12	C32us	UEs supporting FDD and UE based Network Assisted GANSS with Galileo only	1 Execution: CS
6.2.3.2_3s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 3	Rel-8	C33us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Modernized GPS only	1 Execution: CS

Clause	Title	Release	Applicability	Comments	Number of TC Executions (informative)
6.2.3.2_4s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 4	Rel-8	C34us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with GLONASS only	1 Execution: CS
6.2.3.2_8s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 8	Rel-12	C60us	UEs supporting FDD and UE based Network Assisted GPS and GANSS with Galileo only	1 Execution: CS
6.2.3.2_9s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 9	Rel-12	C50us	UEs supporting UE based Network Assisted GANSS with BDS only	1 Execution: CS
6.2.3.2_10s	MT-LR Position Estimate: UE-Based A-GNSS - Failure Not Enough Satellites: Sub-test 10	Rel-12	C51us	UEs supporting UE based Network Assisted GPS and GANSS with BDS only	1 Execution: CS
6.2.3.3	Location Notification	Rel-8	C39us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability	1 Execution: CS
6.2.3.4	Privacy Verification - Location Allowed if No Response	Rel-8	C39us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability	1 Execution: CS
6.2.3.5	Privacy Verification - Location Not Allowed if No Response	Rel-8	C39us	UEs supporting FDD and (UE assisted Network Assisted GANSS or UE based Network Assisted GANSS) and MT-LR LCS location request notification capability	1 Execution: CS

Table 4-6: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for UTRA

C43us IF A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C44us IF A.4.3-1/5 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C45us IF A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C46us IF A.4.3-1/6 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C47us IF A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND A.4.3-3/6 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C48us IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND A.4.3-3/5 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C49us IF ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/13 AND A.4.3-3/5 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C50us IF A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C51us IF A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C52us IF (A.4.3-1/5 OR A.4.3-1/6) AND A.4.3-1/13 AND NOT (A.4.3-1/11 OR A.4.3-1/10 OR A.4.3-1/8 OR A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C53us IF ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/13 AND NOT (A.4.3-1/9 OR A.4.3-1/7) THEN R ELSE N/A
C54us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C55us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C56us IF A.4.1-1/3 AND A.4.3-1/10 AND A.4.3-1/5 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C57us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/9 AND A.4.3-3/6 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C58us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND A.4.3-3/5 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C59us IF A.4.1-1/3 AND ((A.4.3-1/5 AND A.4.3-1/10) OR (A.4.3-1/6 AND A.4.3-1/11)) AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A
C60us IF A.4.1-1/3 AND A.4.3-1/11 AND A.4.3-1/6 AND A.4.3-1/9 AND NOT (A.4.3-1/7 OR A.4.3-1/13) THEN R ELSE N/A

Table 4-7: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for E-UTRA

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.1	NAS Protocol Procedures							
7.1.1	UE Network Capability	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2	LCS Procedures							
7.2.1.1	Location Notification	Rel-9	C14es	All UEs supporting EPC-MT-LR Location Notification	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.1.2	Privacy Verification – Location Allowed if no Response	Rel-9	C14es	All UEs supporting EPC-MT-LR Location Notification	pc_eFDD	px_UeLcsNotification: value for UE LCS Notification timeout timer.		Rel-9
					pc_eTDD			Rel-9
7.2.1.3	Privacy Verification – Location not Allowed if No Response	Rel-9	C14es	All UEs supporting EPC-MT-LR Location Notification	pc_eFDD	px_UeLcsNotification: value for UE LCS Notification timeout timer.		Rel-9
					pc_eTDD			Rel-9
7.2.2.1_1s	Void							
7.2.2.1_2s	Void							
7.2.2.1_3s	Void							
7.2.2.1_4s	Void							
7.2.2.1_8s	Void							
7.2.2.1_9s	Void							
7.2.2.1_10s	Void							
7.2.2.1_15s	Autonomous Self Location: UE-based: Subtest 15	Rel-9 ⁽²⁾	C64es	All UEs supporting UE-Based GNSS ⁽¹⁾ and MO-LR request for assistance data.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.1_16s	Autonomous Self Location: UE-based: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C69es	All UEs supporting UE-Based MBS and MO-LR request for assistance data	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.2.2.1_17s	Autonomous Self Location: UE-based: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C75es	All UEs supporting UE-Based WLAN and MO-LR request for assistance data	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.1_18s	Autonomous Self Location: UE-based: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C71es	All UEs supporting UE-Based Sensor and MO-LR request for assistance data	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_1s	Void							
7.2.2.2_2s	Void							
7.2.2.2_3s	Void							
7.2.2.2_4s	Void							
7.2.2.2_5s	Basic Self Location: UE-assisted: Subtest 5	Rel-9	C09es	All UEs supporting UE-assisted OTDOA and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_6FDDs	Basic Self Location: UE-assisted: Subtest 6 (FDD)	Rel-9	C10es	All FDD UEs supporting UE-assisted ECID and MO-LR request for location estimate	pc_eFDD			Rel-9
7.2.2.2_6TDDs	Basic Self Location: UE-assisted: Subtest 6 (TDD)	Rel-13	C56es	All TDD UEs supporting UE-assisted ECID and MO-LR request for location estimate	pc_eTDD			Rel-9
7.2.2.2_8s	Void							
7.2.2.2_9s	Void							
7.2.2.2_10s	Void							
7.2.2.2_11s	Basic Self Location: UE-assisted: Subtest 11 UE supporting WLAN (Rel-13 only)	Rel-13 only	C58es	All UEs supporting UE-assisted WLAN and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_12s	Basic Self Location: UE-assisted: Subtest 12	Rel-13 only	C53es	All UEs supporting UE-	pc_eFDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	UE supporting MBS (Rel-13 only)			assisted MBS and MO-LR request for location estimate	pc_eTDD			Rel-9
7.2.2.2_13s	Basic Self Location: UE-assisted: Subtest 13	Rel-13	C60es	All UEs supporting UE-assisted Bluetooth and MO-LR request for location estimate	pc_eFDD			Rel-9
					Pc_eTDD			Rel-9
7.2.2.2_14s	Basic Self Location: UE-assisted: Subtest 14 UE supporting Sensor (Rel-13 only)	Rel-13 only	C62es	All UEs supporting UE-assisted Sensor and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_15s	Basic Self Location: UE-assisted: Subtest 15	Rel-9 ⁽²⁾	C65es	All UEs supporting UE-assisted GNSS ⁽¹⁾ and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_16s	Basic Self Location: UE-assisted: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C53es	All UEs supporting UE-assisted MBS and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_17s	Basic Self Location: UE-assisted: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C58es	All UEs supporting UE-assisted WLAN and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.2.2.2_18s	Basic Self Location: UE-assisted: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C62es	All UEs supporting UE-assisted Sensor and MO-LR request for location estimate	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3	LPP Procedures							
7.3.1.1	Position Capability Transfer	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.2.1	LPP Duplicated Message	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.2.2	LPP Acknowledgment	Rel-9	C11es	All UEs supporting LPP	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.2.3	LPP Retransmission	Rel-9	C36es	All UEs supporting LPP and support of sending of acknowledgement request in LPP Provide Capabilities message.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.3.1	Void							
7.3.3.1A	Void							
7.3.3.1B	LPP Requested Method not Supported - UE-	Rel-9 ⁽²⁾	C54es	All UEs supporting at	pc_eFDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
	Assisted			least one of UE-assisted GNSS ⁽¹⁾ , UE-assisted OTDOA, or UE-assisted ECID or UE-assisted WLAN or UE-assisted MBS or UE-assisted Bluetooth or UE-assisted Sensor but not all of them	pc_eTDD			Rel-9
7.3.4.1_1s	Void							
7.3.4.1_2s	Void							
7.3.4.1_3s	Void							
7.3.4.1_4s	Void							
7.3.4.1_8s	Void							
7.3.4.1_9s	Void							
7.3.4.1_10s	Void							
7.3.4.1_15s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 15	Rel-9 ⁽²⁾	C66es	All UEs supporting UE-based GNSS ⁽¹⁾	pc_eFDD			Rel-9
7.3.4.1_16s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C70es		pc_eTDD			Rel-9
7.3.4.1_17s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C77es	All UEs supporting UE-based WLAN	pc_eFDD			Rel-9
7.3.4.1_18s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C73es		pc_eTDD			Rel-9
7.3.4.2_1s	Void							
7.3.4.2_2s	Void							
7.3.4.2_3s	Void							

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.3.4.2_4s	Void							
7.3.4.2_5s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 5	Rel-9	C26es	All UEs supporting UE-Assisted OTDOA	pc_eFDD			Rel-9
7.3.4.2_6FDDs	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 6 (FDD)	Rel-9	C27es	All FDD UEs supporting UE-Assisted ECID	pc_eFDD			Rel-9
7.3.4.2_6TDDs	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 6 (TDD)	Rel-13	C57es	All TDD UEs supporting UE-Assisted ECID	pc_eTDD			Rel-9
7.3.4.2_7s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 7	Rel-9	C21es	All UEs supporting UE-assisted GNSS and UE-assisted OTDOA	pc_eFDD			Rel-9
7.3.4.2_8s	Void				pc_eTDD			Rel-9
7.3.4.2_9s	Void							
7.3.4.2_10s	Void							
7.3.4.2_11s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 11 UE supporting WLAN (Rel-13 only)	Rel-13 only	C59es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
7.3.4.2_11s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 11 UE supporting WLAN (Rel-13 only)	Rel-13 only	C59es	All UEs supporting UE-assisted WLAN	pc_eTDD			Rel-9
7.3.4.2_12s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 12 UE supporting MBS (Rel-13 only)	Rel-13 only	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
7.3.4.2_12s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 12 UE supporting MBS (Rel-13 only)	Rel-13 only	C55es	All UEs supporting UE-assisted MBS	pc_eTDD			Rel-9
7.3.4.2_13s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 13	Rel-13	C61es	All UEs supporting UE-assisted Bluetooth	pc_eFDD			Rel-9
7.3.4.2_13s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 13	Rel-13	C61es	All UEs supporting UE-assisted Bluetooth	pc_eTDD			Rel-9
7.3.4.2_14s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 14 UE supporting Sensor (Rel-13 only)	Rel-13 only	C63es	All UEs supporting UE-assisted Sensor	pc_eFDD			Rel-9
7.3.4.2_14s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 14 UE supporting Sensor (Rel-13 only)	Rel-13 only	C63es	All UEs supporting UE-assisted Sensor	pc_eTDD			Rel-9
7.3.4.2_15s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 15	Rel-9 ⁽²⁾	C67es	All UEs supporting UE-assisted GNSS ⁽¹⁾	pc_eFDD			Rel-9
7.3.4.2_15s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-assisted: Subtest 15	Rel-9 ⁽²⁾	C67es	All UEs supporting UE-assisted GNSS ⁽¹⁾	pc_eTDD			Rel-9
7.3.4.2_16s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
7.3.4.2_16s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C55es	All UEs supporting UE-assisted MBS	pc_eTDD			Rel-9
7.3.4.2_17s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C59es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
7.3.4.2_17s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C59es	All UEs supporting UE-assisted WLAN	pc_eTDD			Rel-9
7.3.4.2_18s	E-SMLC Initiated Location Information Transfer: UE-assisted: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C63es	All UEs supporting UE-assisted Sensor	pc_eFDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
					pc_eTDD			Rel-9
7.3.4.3_1s	Void							
7.3.4.3_2s	Void							
7.3.4.3_3s	Void							
7.3.4.3_4s	Void							
7.3.4.3_8s	Void							
7.3.4.3_9s	Void							
7.3.4.3_10s	Void							
7.3.4.3_15s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 15	Rel-9 ⁽²⁾	C66es	All UEs supporting UE-based GNSS ⁽¹⁾	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.3_16s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C70es	All UEs supporting UE-based MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.3_17s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C77es	All UEs supporting UE-based WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.3_18s	E-SMLC Initiated Position Measurement without assistance data: UE-Based: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C73es	All UEs supporting UE-based Sensor	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_1s	Void							
7.3.4.4_2s	Void							
7.3.4.4_3s	Void							
7.3.4.4_4s	Void							
7.3.4.4_5s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 5	Rel-9	C26es	All UEs supporting UE-Assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_7s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 7	Rel-9	C21es	All UEs supporting UE-assisted GNSS and UE-assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_8s	Void							

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.3.4.4_9s	Void							
7.3.4.4_10s	Void							
7.3.4.4_15s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 15	Rel-9 ⁽²⁾	C67es	All UEs supporting UE-assisted GNSS ⁽¹⁾	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_16s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_17s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C59es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.4.4_18s	E-SMLC Initiated Position Measurement without assistance data: UE-assisted: Subtest 18 UE supporting Sensor (Rel-14 onwards)	Rel-14	C63es	All UEs supporting UE-assisted Sensor	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_1s	Void							
7.3.5.1_2s	Void							
7.3.5.1_3s	Void							
7.3.5.1_4s	Void							
7.3.5.1_5s	E-SMLC initiated Abort: Subtest 5	Rel-9	C26es	All UEs supporting UE-assisted OTDOA	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_8s	Void							
7.3.5.1_9s	Void							
7.3.5.1_10s	Void							
7.3.5.1_11s	E-SMLC initiated Abort: Subtest 11 UE supporting WLAN (Rel-13 only)	Rel-13 only	C59es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_12s	E-SMLC initiated Abort: Subtest 12 UE supporting MBS (Rel-13 only)	Rel-13 only	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_13s	E-SMLC initiated Abort: Subtest 13	Rel-13	C61es	All UEs supporting UE-assisted Bluetooth	pc_eFDD			Rel-9
					pc_eTDD			Rel-9

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
7.3.5.1_15s	E-SMLC initiated Abort: Subtest 15	Rel-9 ⁽²⁾	C68es	All UEs supporting UE-based or UE-assisted GNSS ⁽¹⁾	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_16s	E-SMLC initiated Abort: Subtest 16 UE supporting MBS (Rel-14 onwards)	Rel-14	C55es	All UEs supporting UE-assisted MBS	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.3.5.1_17s	E-SMLC initiated Abort: Subtest 17 UE supporting WLAN (Rel-14 onwards)	Rel-14	C59es	All UEs supporting UE-assisted WLAN	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4	Circuit Switched (CS) Fallback							
7.4.1.1	CS fallback: Network does not support EPC-MO-LR	Rel-9	C12es	All UEs supporting MO-LR procedure for location estimate in the CS fallback in EPS.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.4.1.2	CS fallback: UE does not support EPC-MO-LR	Rel-9	C13es	All UEs not supporting EPC-MO-LR and supporting MO-LR procedure for location estimate in the CS fallback in EPS.	pc_eFDD			Rel-9
					pc_eTDD			Rel-9
7.5	RRC Protocol Procedures							
7.5.1	Inter-Frequency RSTD measurement indication	Rel-10	C37es	All UEs supporting inter-frequency RSTD measurements for OTDOA that require measurement gaps.	pc_eFDD			Rel-10
					pc_eTDD			Rel-10

NOTE 1: The GNSS combination of GPS, GLONASS, Galileo, BDS supported by the UE

NOTE 2: If the GNSS combination supported by the UE includes Galileo and/or BDS then Rel-12 of LPP is required

Table 4-8: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for E-UTRA

C01es	Void
C02es	Void
C03es	Void
C04es	Void
C05es	Void
C06es	Void
C07es	Void
C08es	Void
C09es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/4 AND A.4.3-3/2 THEN R ELSE N/A
C10es	IF A.4.1-1/1 AND A.4.3-2/5 AND A.4.3-3/2 THEN R ELSE N/A
C11es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/1 THEN R ELSE N/A
C12es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/3 OR A.4.1-1/4) AND A.4.3-3/4 THEN R ELSE N/A
C13es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.1-1/3 OR A.4.1-1/4) AND A.4.3-3/4 AND NOT (A.4.3-3/1 AND A.4.3-3/2) THEN R ELSE N/A
C14es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/3 THEN R ELSE N/A
C15es	Void
C16es	Void
C17es	Void
C18es	Void
C19es	Void
C20es	Void
C21es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-2/4 THEN R ELSE N/A
C22es	Void
C23es	Void
C24es	Void
C25es	Void
C26es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/4 THEN R ELSE N/A
C27es	IF A.4.1-1/1 AND A.4.3-2/5 THEN R ELSE N/A
C28es	Void
C29es	Void
C30es	Void
C31es	Void
C32es	Void
C33es	Void
C34es	Void
C35es	Void
C36es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.2-1/1 AND A.4.4-1/1 THEN R ELSE N/A
C37es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/16 THEN R ELSE N/A
C38es	Void
C39es	Void
C40es	Void
C41es	Void
C42es	Void
C43es	Void
C44es	Void
C45es	Void

C46es	Void
C47es	Void
C48es	Void
C49es	Void
C50es	Void
C51es	Void
C52es	Void
C53es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/20 THEN R ELSE N/A
C54es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/2 OR A.4.3-2/4 OR A.4.3-2/5 OR A.4.3-2/20 OR A.4.3-2/21 OR A.4.3-2/22 OR A.4.3-2/23) AND NOT (A.4.3-2/2 AND A.4.3-2/4 AND A.4.3-2/5 AND A.4.3-2/20 AND A.4.3-2/21 AND A.4.3-2/22 AND A.4.3-2/23) THEN R ELSE N/A
C55es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/20 THEN R ELSE N/A
C56es	IF A.4.1-1/2 AND A.4.3-2/5 AND A.4.3-3/2 THEN R ELSE N/A
C57es	IF A.4.1-1/2 AND A.4.3-2/5 THEN R ELSE N/A
C58es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/21 THEN R ELSE N/A
C59es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/21 THEN R ELSE N/A
C60es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/22 THEN R ELSE N/A
C61es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/22 THEN R ELSE N/A
C62es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-3/2 AND A.4.3-2/23 THEN R ELSE N/A
C63es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/23 THEN R ELSE N/A
C64es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 AND A.4.3-3/1 THEN R ELSE N/A
C65es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 AND A.4.3-3/2 THEN R ELSE N/A
C66es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/1 THEN R ELSE N/A
C67es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/2 THEN R ELSE N/A
C68es	IF (A.4.1-1/1 OR A.4.1-1/2) AND (A.4.3-2/1 OR A.4.3-2/2) THEN R ELSE N/A
C69es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/26 AND A.4.3-3/1 THEN R ELSE N/A
C70es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/26 THEN R ELSE N/A
C71es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/28 AND A.4.3-3/1 THEN R ELSE N/A
C72es	Void
C73es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/28 THEN R ELSE N/A
C74es	Void
C75es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/27 AND A.4.3-3/1 THEN R ELSE N/A
C76es	Void
C77es	IF (A.4.1-1/1 OR A.4.1-1/2) AND A.4.3-2/27 THEN R ELSE N/A
C78es	Void

Table 4-9: Applicability of tests and additional information for testing for test cases in TS 37.571-2 [6] for NR

Clause	TC Title	Release of LPP	Applicability		Release RAT
			Condition	Comment ⁽⁴⁾	
9.3	LPP Procedures				
9.3.1	LPP Common Procedures				
9.3.1.1	Position Capability Transfer	Rel-9	C01ns	All UEs supporting LPP	Rel-15
9.3.1.2_5s	LPP Abort: Subtest 5	Rel-15	C02ns	All UEs supporting UE-Assisted OTDOA ⁽⁶⁾	Rel-15
9.3.1.2_11s	LPP Abort: Subtest 11	Rel-13 only	C06ns	All UEs supporting UE-Assisted WLAN	Rel-15
9.3.1.2_12s	LPP Abort: Subtest 12	Rel-13 only	C05ns	All UEs supporting UE-Assisted MBS	Rel-15
9.3.1.2_13s	LPP Abort: Subtest 13	Rel-13	C03ns	All UEs supporting UE-Assisted Bluetooth	Rel-15
9.3.1.2_15s	LPP Abort: Subtest 15	Rel-9 ⁽²⁾	C04ns	All UEs supporting UE-Based or UE-Assisted A-GNSS ⁽¹⁾	Rel-15
9.3.1.2_16s	LPP Abort: Subtest 16	Rel-14	C05ns	All UEs supporting UE-Assisted MBS	Rel-15
9.3.1.2_17s	LPP Abort: Subtest 17	Rel-14	C06ns	All UEs supporting UE-Assisted WLAN	Rel-15
9.3.1.2_19s	LPP Abort: Subtest 19	Rel-16	C19ns	All UEs supporting UE-Assisted Multi-RTT	Rel-16
9.3.1.2_20s	LPP Abort: Subtest 20	Rel-16	C20ns	All UEs supporting UE-Based or UE-Assisted DL-AoD	Rel-16
9.3.1.2_21s	LPP Abort: Subtest 21	Rel-16	C21ns	All UEs supporting UE-Based or UE-Assisted DL-TDOA	Rel-16
9.3.2	LPP Transport				
9.3.2.1	LPP Duplicated Message	Rel-9	C01ns	All UEs supporting LPP	Rel-15
9.3.2.2	LPP Acknowledgement	Rel-9	C01ns	All UEs supporting LPP	Rel-15
9.3.2.3	LPP Retransmission	Rel-9	C07ns	All UEs supporting LPP and the sending of acknowledgement request in LPP Provide Capabilities message	Rel-15
9.3.3	LPP Error Handling				
9.3.3.1	Void				
9.3.3.1A	Void				
9.3.3.1B	LPP Requested Method not Supported - UE-Assisted	Rel-9 ^{(2) (5)}	C08ns	All UEs supporting at least one of UE-Assisted GNSS ⁽¹⁾ , UE-Assisted OTDOA ⁽⁶⁾ , or UE-Assisted ECID or UE-Assisted WLAN or UE-Assisted MBS or UE-Assisted Bluetooth or UE-Assisted Sensor or UE-Assisted DL-TDOA or UE-Assisted DL-AoD or UE-Assisted Multi-RTT or UE-Assisted NR E-CID but not all of them	Rel-15
9.3.4	LPP Positioning Procedures				
9.3.4.1_15s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 15	Rel-9 ⁽²⁾	C10ns	All UEs supporting UE-Based A-GNSS ⁽¹⁾	Rel-15
9.3.4.1_16s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 16	Rel-14	C11ns	All UEs supporting UE-Based MBS	Rel-15
9.3.4.1_17s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 17	Rel-14	C12ns	All UEs supporting UE-Based WLAN	Rel-15
9.3.4.1_18s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 18	Rel-14	C13ns	All UEs supporting UE-Based Sensor	Rel-15
9.3.4.1_20s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 20	Rel-16	C22ns	All UEs supporting UE-Based DL-AoD	Rel-16

Clause	TC Title	Release of LPP	Applicability		Release RAT
			Condition	Comment ⁽⁴⁾	
9.3.4.1_21s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Based: Subtest 21	Rel-16	C23ns	All UEs supporting UE-Based DL-TDOA	Rel-16
9.3.4.2_5s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 5	Rel-15	C02ns	All UEs supporting UE-Assisted OTDOA ⁽⁶⁾	Rel-15
9.3.4.2_6s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 6	Rel-9	C15ns	All UEs supporting UE-Assisted ECID	Rel-15
9.3.4.2_7s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 7	Rel-15	C16ns	All UEs supporting UE-Assisted GNSS and OTDOA ⁽⁶⁾	Rel-15
9.3.4.2_11s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 11	Rel-13 only	C06ns	All UEs supporting UE-Assisted WLAN	Rel-15
9.3.4.2_12s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 12	Rel-13 only	C05ns	All UEs supporting UE-Assisted MBS	Rel-15
9.3.4.2_13s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 13	Rel-13	C03ns	All UEs supporting UE-Assisted Bluetooth	Rel-15
9.3.4.2_14s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 14	Rel-13 only	C09ns	All UEs supporting UE-Assisted Sensor	Rel-15
9.3.4.2_15s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 15	Rel-9 ⁽²⁾	C14ns	All UEs supporting UE-Assisted A-GNSS ⁽¹⁾	Rel-15
9.3.4.2_16s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 16	Rel-14	C05ns	All UEs supporting UE-Assisted MBS	Rel-15
9.3.4.2_17s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 17	Rel-14	C06ns	All UEs supporting UE-Assisted WLAN	Rel-15
9.3.4.2_18s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 18	Rel-14	C09ns	All UEs supporting UE-Assisted Sensor	Rel-15
9.3.4.2_19s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 19	Rel-16	C19ns	All UEs supporting UE-Assisted Multi-RTT	Rel-16
9.3.4.2_20s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 20	Rel-16	C24ns	All UEs supporting UE-Assisted DL-AoD	Rel-16
9.3.4.2_21s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 21	Rel-16	C25ns	All UEs supporting UE-Assisted DL-TDOA	Rel-16
9.3.4.2_22s	E-SMLC Initiated Assistance Data Delivery followed by Location Information Transfer: UE-Assisted: Subtest 22	Rel-16	C26ns	All UEs supporting UE-Assisted NR E-CID	Rel-16

Clause	TC Title	Release of LPP	Applicability		Release RAT
			Condition	Comment ⁽⁴⁾	
9.3.4.3_15s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Based: Subtest 15	Rel-9 ⁽²⁾	C10ns	All UEs supporting UE-Based A-GNSS ⁽¹⁾	Rel-15
9.3.4.3_16s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Based: Subtest 16	Rel-14	C11ns	All UEs supporting UE-Based MBS	Rel-15
9.3.4.3_17s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Based: Subtest 17	Rel-14	C12ns	All UEs supporting UE-Based WLAN	Rel-15
9.3.4.3_18s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Based: Subtest 18	Rel-14	C13ns	All UEs supporting UE-Based Sensor	Rel-15
9.3.4.3_20s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Based: Subtest 20	Rel-16	C22ns	All UEs supporting UE-Based DL-AoD	Rel-16
9.3.4.3_21s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Based: Subtest 21	Rel-16	C23ns	All UEs supporting UE-Based DL-TDOA	Rel-16
9.3.4.4_5s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 5	Rel-15	C02ns	All UEs supporting UE-Assisted OTDOA ⁽⁶⁾	Rel-15
9.3.4.4_7s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 7	Rel-15	C16ns	All UEs supporting UE-assisted A-GNSS ⁽¹⁾ and UE-assisted OTDOA ⁽⁶⁾	Rel-15
9.3.4.4_15s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 15	Rel-9 ⁽²⁾	C14ns	All UEs supporting UE-Assisted A-GNSS ⁽¹⁾	Rel-15
9.3.4.4_16s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 16	Rel-14	C05ns	All UEs supporting UE-Assisted MBS	Rel-15
9.3.4.4_17s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 17	Rel-14	C06ns	All UEs supporting UE-Assisted WLAN	Rel-15
9.3.4.4_18s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 18	Rel-14	C09ns	All UEs supporting UE-Assisted Sensor	Rel-15
9.3.4.4_19s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 19	Rel-16	C19ns	All UEs supporting UE-Assisted Multi-RTT	Rel-16
9.3.4.4_20s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 20	Rel-16	C24ns	All UEs supporting UE-Assisted DL-AoD	Rel-16
9.3.4.4_21s	E-SMLC Initiated Position Measurement without Assistance Data: UE-Assisted: Subtest 21	Rel-16	C25ns	All UEs supporting UE-Assisted DL-TDOA	Rel-16
9.4	RRC Protocol Procedures				
9.4.1_20s	PosSIB broadcasting followed by location information transfer: Subtest 20	Rel-16	C22ns	All UEs supporting UE-Based DL-AoD	Rel-16
9.4.1_21s	PosSIB broadcasting followed by location information transfer: Subtest 21	Rel-16	C23ns	All UEs supporting UE-Based DL-TDOA	Rel-16
9.4.1_23s	PosSIB broadcasting followed by location information transfer: Subtest 23	Rel-16	C11ns	All UEs supporting UE-Based MBS	Rel-16
9.4.1_24s	PosSIB broadcasting followed by location information transfer: Subtest 24	Rel-16	C13ns	All UEs supporting UE-Based Sensor	Rel-16
9.4.1_25s	PosSIB broadcasting followed by location information transfer: Subtest 25	Rel-15	C10ns	All UEs supporting UE-Based A-GNSS ⁽¹⁾	Rel-15
NOTE 1: The GNSS combination of GPS, GLONASS, Galileo, BDS supported by the UE NOTE 2: If the GNSS combination supported by the UE includes Galileo and/or BDS then Rel-12 of LPP is required NOTE 3: Void NOTE 4: The required support of RAN-CN Interface Options is given in Table 4-10. NOTE 5: If the UE-Assisted DL-TDOA or UE-Assisted DL-AoD or UE-Assisted Multi-RTT or UE-Assisted NR E-CID supported by the UE then Rel-16 LPP is required. NOTE 6: For UEs supporting NG-RAN NR (Option 2) support of inter-RAT RSTD for EUTRA measurements is also required.					

Table 4-10: Applicability of tests Conditions for test cases in TS 37.571-2 [6] for NR

C01ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.2-1/1 THEN R ELSE N/A
C02ns	IF (A.4.1-4/1 AND A.4.3-2/4 AND A.4.3-3A/18) OR (A.4.1-4/4 AND A.4.3-2/4) THEN R ELSE N/A
C03ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/22 THEN R ELSE N/A
C04ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND (A.4.3-2/1 OR A.4.3-2/2) THEN R ELSE N/A
C05ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/20 THEN R ELSE N/A
C06ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/21 THEN R ELSE N/A
C07ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.2-1/1 AND A.4.4-1/1 THEN R ELSE N/A
C08ns	IF (A.4.1-4/1 AND (A.4.3-2/2 OR (A.4.3-2/4 AND A.4.3-3A/18) OR A.4.3-2/20 OR A.4.3-2/21 OR A.4.3-2/22 OR A.4.3-2/23 OR A.4.3-2/29 OR A.4.3-2/30 OR A.4.3-2/32 OR A.4.3-2/34) AND NOT (A.4.3-2/2 AND (A.4.3-2/4 AND A.4.3-3A/18) AND A.4.3-2/20 AND A.4.3-2/21 AND A.4.3-2/22 AND A.4.3-2/23 AND A.4.3-2/29 AND A.4.3-2/30 AND A.4.3-2/32 AND A.4.3-2/34)) OR (A.4.1-4/4 AND (A.4.3-2/2 OR A.4.3-2/4 OR A.4.3-2/5 OR A.4.3-2/20 OR A.4.3-2/21 OR A.4.3-2/22 OR A.4.3-2/23) AND NOT (A.4.3-2/2 AND A.4.3-2/4 AND A.4.3-2/5 AND A.4.3-2/20 AND A.4.3-2/21 AND A.4.3-2/22 AND A.4.3-2/23)) THEN R ELSE N/A
C09ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/23 THEN R ELSE N/A
C10ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/1 THEN R ELSE N/A
C11ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/26 THEN R ELSE N/A
C12ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/27 THEN R ELSE N/A
C13ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/28 THEN R ELSE N/A
C14ns	IF (A.4.1-4/1 OR A.4.1-4/4) AND A.4.3-2/2 THEN R ELSE N/A
C15ns	IF A.4.1-4/4 AND A.4.3-2/5 THEN R ELSE N/A
C16ns	IF (A.4.1-4/1 AND A.4.3-2/2 AND A.4.3-2/4 AND A.4.3-3A/18) OR (A.4.1-4/4 AND A.4.3-2/2 AND A.4.3-2/4) THEN R ELSE N/A
C17ns	Void
C18ns	Void
C19ns	IF A.4.1-4/1 AND A.4.3-2/29 THEN R ELSE N/A
C20ns	IF A.4.1-4/1 AND (A.4.3-2/30 OR A.4.3-2/31) THEN R ELSE N/A
C21ns	IF A.4.1-4/1 AND (A.4.3-2/32 OR A.4.3-2/33) THEN R ELSE N/A
C22ns	IF A.4.1-4/1 AND A.4.3-2/31 THEN R ELSE N/A
C23ns	IF A.4.1-4/1 AND A.4.3-2/33 THEN R ELSE N/A
C24ns	IF A.4.1-4/1 AND A.4.3-2/30 THEN R ELSE N/A
C25ns	IF A.4.1-4/1 AND A.4.3-2/32 THEN R ELSE N/A
C26ns	IF A.4.1-4/1 AND A.4.3-2/34 THEN R ELSE N/A

Editor's Note: The required support of RAN-CN Interface Options NE-DC and NGEN-DC in this Table requires further study.

Table 4-11: Applicability of tests and additional information for testing for test cases in TS 37.571-1 [5] for NR

Clause	TC Title	Release of LPP	Applicability		Additional Information			
			Condition	Comment	Specific ICS	Specific IXIT	Number of TC Executions	Release RAT
11	NR MBS measurement requirements							
11.1B	MBS Measurement Reporting Delay (NR)	Rel-13	C45nr	All NR UEs supporting UE-Assisted MBS				Rel-15
11.2B	MBS Sensitivity Measurement Accuracy (NR)	Rel-13	C45nr	All NR UEs supporting UE-Assisted MBS				Rel-15
11.3B	MBS Nominal Measurement Accuracy (NR)	Rel-13	C45nr	All NR UEs supporting UE-Assisted MBS				Rel-15
11.4B	MBS Dynamic Range Measurement Accuracy (NR)	Rel-13	C45nr	All NR UEs supporting UE-Assisted MBS				Rel-15
11.5B	MBS Measurement Accuracy in Multipath (NR)	Rel-13	C45nr	All NR UEs supporting UE-Assisted MBS				Rel-15
13	A-GNSS minimum performance requirements							
13.2.1-1	Sensitivity Coarse Time Assistance: Sub-Test 1	Rel-9	C01nr	All FR1 NR UEs. The UEs shall support A-GPS L1C/A				Rel-15
13.2.1-2	Sensitivity Coarse Time Assistance: Sub-Test 2	Rel-9	C02nr	All FR1 NR UEs. The UEs shall support A-GLONASS				Rel-15
13.2.1-3	Sensitivity Coarse Time Assistance: Sub-Test 3	Rel-12	C03nr	All FR1 NR UEs. The UEs shall support A-Galileo				Rel-15
13.2.1-4	Sensitivity Coarse Time Assistance: Sub-Test 4	Rel-9	C04nr	All FR1 NR UEs. The UEs shall support A-GPS and Modernized GPS				Rel-15
13.2.1-5	Sensitivity Coarse Time Assistance: Sub-Test 5	Rel-9	C05nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS				Rel-15
13.2.1-8	Sensitivity Coarse Time Assistance: Sub-Test 8	Rel-12	C15nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo				Rel-15
13.2.1-9	Sensitivity Coarse Time Assistance: Sub-Test 9	Rel-12	C11nr	All FR1 NR UEs. The UEs shall support A-BDS (Note 1)				Rel-15
13.2.1-10	Sensitivity Coarse Time Assistance: Sub-Test 10	Rel-12	C12nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 1)				Rel-15
13.2.1-11	Sensitivity Coarse Time Assistance: Sub-Test 11	Rel-12	C17nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 1)				Rel-15

13.2.1-12	Sensitivity Coarse Time Assistance: Sub-Test 12	Rel-12	C27nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLOASS				Rel-15
13.2.1-13	Sensitivity Coarse Time Assistance: Sub-Test 13	Rel-12	C28nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 1)				Rel-15
13.2.2-1	Sensitivity Fine Time Assistance: Sub-Test 1	Rel-9	C06nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS L1C/A, and Fine Time Assistance				Rel-15
		Rel-15	C34nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS L1C/A, and Fine Time Assistance				Rel-15
13.2.2-2	Sensitivity Fine Time Assistance: Sub-Test 2	Rel-9	C07nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GLOASS, and Fine Time Assistance				Rel-15
		Rel-15	C35nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GLOASS, and Fine Time Assistance				Rel-15
13.2.2-3	Sensitivity Fine Time Assistance: Sub-Test 3	Rel-12	C08nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-Galileo, and Fine Time Assistance				Rel-15
		Rel-15	C36nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-Galileo, and Fine Time Assistance				Rel-15
13.2.2-4	Sensitivity Fine Time Assistance: Sub-Test 4	Rel-9	C09nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS and Modernized GPS, and Fine Time Assistance				Rel-15
		Rel-15	C37nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS and Modernized GPS, and Fine Time Assistance				Rel-15

13.2.2-5	Sensitivity Fine Time Assistance: Sub-Test 5	Rel-9	C10nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS/Modernized GPS and A-GLONASS, and Fine Time Assistance				Rel-15
		Rel-15	C38nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS/Modernized GPS and A-GLONASS, and Fine Time Assistance				Rel-15
13.2.2-8	Sensitivity Fine Time Assistance: Sub-Test 8	Rel-12	C16nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS/Modernized GPS and A-Galileo, and Fine Time Assistance				Rel-15
		Rel-15	C39nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS/Modernized GPS and A-Galileo, and Fine Time Assistance				Rel-15
13.2.2-9	Sensitivity Fine Time Assistance: Sub-Test 9	Rel-12	C13nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-BDS, and Fine Time Assistance (Note 1)				Rel-15
		Rel-15	C40nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-BDS, and Fine Time Assistance (Note 1)				Rel-15
13.2.2-10	Sensitivity Fine Time Assistance: Sub-Test 10	Rel-12	C14nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS/Modernized GPS and A-BDS, and Fine Time Assistance (Note 1)				Rel-15
		Rel-15	C41nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS/Modernized GPS and A-BDS, and Fine Time Assistance (Note 1)				Rel-15
13.2.2-11	Sensitivity Fine Time Assistance: Sub-Test 11	Rel-12	C18nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS, and Fine Time Assistance (Note 1)				Rel-15

		Rel-15	C42nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS, and Fine Time Assistance (Note 1)				Rel-15
13.2.2-12	Sensitivity Fine Time Assistance: Sub-Test 12	Rel-12	C29nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS, and Fine Time Assistance				Rel-15
		Rel-15	C43nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS, and Fine Time Assistance				Rel-15
13.2.2-13	Sensitivity Fine Time Assistance: Sub-Test 13	Rel-12	C30nr	All FR1 NR UEs supporting EN-DC. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS, and Fine Time Assistance (Note 1)				Rel-15
		Rel-15	C44nr	All FR1 NR UEs supporting NG-RAN NR. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS, and Fine Time Assistance (Note 1)				Rel-15
13.3-1	Nominal Accuracy: Sub-Test 1	Rel-9	C01nr	All FR1 NR UEs. The UEs shall support A-GPS L1C/A				Rel-15
13.3-2	Nominal Accuracy: Sub-Test 2	Rel-9	C02nr	All FR1 NR UEs. The UEs shall support A-GLONASS				Rel-15
13.3-3	Nominal Accuracy: Sub-Test 3	Rel-12	C03nr	All FR1 NR UEs. The UEs shall support A-Galileo				Rel-15
13.3-4	Nominal Accuracy: Sub-Test 4	Rel-9	C04nr	All FR1 NR UEs. The UEs shall support A-GPS and Modernized GPS				Rel-15
13.3-5	Nominal Accuracy: Sub-Test 5	Rel-9	C05nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS				Rel-15

13.3-8	Nominal Accuracy: Sub-Test 8	Rel-12	C15nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo				Rel-15
13.3-9	Nominal Accuracy: Sub-Test 9	Rel-12	C11nr	All FR1 NR UEs. The UEs shall support A-BDS (Note 1)				Rel-15
13.3-10	Nominal Accuracy: Sub-Test 10	Rel-12	C12nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 1)				Rel-15
13.3-11	Nominal Accuracy: Sub-Test 11	Rel-12	C17nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 1)				Rel-15
13.3-12	Nominal Accuracy: Sub-Test 12	Rel-12	C27nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS				Rel-15
13.3-13	Nominal Accuracy: Sub-Test 13	Rel-12	C28nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 1)				Rel-15
13.4-1	Dynamic Range: Sub-Test 1	Rel-9	C01nr	All FR1 NR UEs. The UEs shall support A-GPS L1C/A				Rel-15
13.4-2	Dynamic Range: Sub-Test 2	Rel-9	C02nr	All FR1 NR UEs. The UEs shall support A-GLONASS				Rel-15
13.4-3	Dynamic Range: Sub-Test 3	Rel-12	C03nr	All FR1 NR UEs. The UEs shall support A-Galileo				Rel-15
13.4-4	Dynamic Range: Sub-Test 4	Rel-9	C04nr	All FR1 NR UEs. The UEs shall support A-GPS and Modernized GPS				Rel-15
13.4-5	Dynamic Range: Sub-Test 5	Rel-9	C05nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS				Rel-15
13.4-8	Dynamic Range: Sub-Test 8	Rel-12	C15nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo				Rel-15
13.4-9	Dynamic Range: Sub-Test 9	Rel-12	C11nr	All FR1 NR UEs. The UEs shall support A-BDS (Note 1)				Rel-15
13.4-10	Dynamic Range: Sub-Test 10	Rel-12	C12nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 1)				Rel-15

13.4-11	Dynamic Range: Sub-Test 11	Rel-12	C17nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 1)				Rel-15
13.4-12	Dynamic Range: Sub-Test 12	Rel-12	C27nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS				Rel-15
13.4-13	Dynamic Range: Sub-Test 13	Rel-12	C28nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 1)				Rel-15
13.5-1	Multi-path scenario: Sub-Test 1	Rel-9	C01nr	All FR1 NR UEs. The UEs shall support A-GPS L1C/A				Rel-15
13.5-2	Multi-path scenario: Sub-Test 2	Rel-9	C02nr	All FR1 NR UEs. The UEs shall support A-GLONASS				Rel-15
13.5-3	Multi-path scenario: Sub-Test 3	Rel-12	C03nr	All FR1 NR UEs. The UEs shall support A-Galileo				Rel-15
13.5-4	Multi-path scenario: Sub-Test 4	Rel-9	C04nr	All FR1 NR UEs. The UEs shall support A-GPS and Modernized GPS				Rel-15
13.5-5	Multi-path scenario: Sub-Test 5	Rel-9	C05nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS				Rel-15
13.5-8	Multi-path scenario: Sub-Test 8	Rel-12	C15nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo				Rel-15
13.5-9	Multi-path scenario: Sub-Test 9	Rel-12	C11nr	All FR1 NR UEs. The UEs shall support A-BDS (Note 1)				Rel-15
13.5-10	Multi-path scenario: Sub-Test 10	Rel-12	C12nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 1)				Rel-15
13.5-11	Multi-path scenario: Sub-Test 11	Rel-12	C17nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 1)				Rel-15
13.5-12	Multi-path scenario: Sub-Test 12	Rel-12	C27nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS				Rel-15

13.5-13	Multi-path scenario: Sub-Test 13	Rel-12	C28nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 1)				Rel-15
13.6-1	Moving scenario and periodic update: Sub-Test 1 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C01nr	All FR1 NR UEs. The UEs shall support A-GPS L1C/A				Rel-15
13.6-2	Moving scenario and periodic update: Sub-Test 2 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C02nr	All FR1 NR UEs. The UEs shall support A-GLONASS				Rel-15
13.6-3	Moving scenario and periodic update: Sub-Test 3 (Rel-9 to Rel-13)	Rel-12, Rel-13	C03nr	All FR1 NR UEs. The UEs shall support A-Galileo				Rel-15
13.6-4	Moving scenario and periodic update: Sub-Test 4 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C04nr	All FR1 NR UEs. The UEs shall support A-GPS and Modernized GPS				Rel-15
13.6-5	Moving scenario and periodic update: Sub-Test 5 (Rel-9 to Rel-13)	Rel-9, Rel-10, Rel-11, Rel-12, Rel-13	C05nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS				Rel-15
13.6-8	Moving scenario and periodic update: Sub-Test 8 (Rel-9 to Rel-13)	Rel-12, Rel-13	C15nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo				Rel-15
13.6-9	Moving scenario and periodic update: Sub-Test 9 (Rel-9 to Rel-13)	Rel-12, Rel-13	C11nr	All FR1 NR UEs. The UEs shall support A-BDS (Note 1)				Rel-15
13.6-10	Moving scenario and periodic update: Sub-Test 10 (Rel-9 to Rel-13)	Rel-12, Rel-13	C12nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-BDS (Note 1)				Rel-15
13.6-11	Moving scenario and periodic update: Sub-Test 11 (Rel-9 to Rel-13)	Rel-12, Rel-13	C17nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS (Note 1)				Rel-15
13.6-12	Moving scenario and periodic update: Sub-Test 12 (Rel-9 to Rel-13)	Rel-12, Rel-13	C27nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS				Rel-15
13.6-13	Moving scenario and periodic update: Sub-Test 13 (Rel-9 to Rel-13)	Rel-12, Rel-13	C28nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS (Note 1)				Rel-15

13.7-1	Moving scenario and periodic update: Sub-Test 1 (Rel-14 onwards)	Rel-14	C19nr	All FR1 NR UEs. The UEs shall support A-GPS L1C/A and periodical reporting				Rel-15
13.7-2	Moving scenario and periodic update: Sub-Test 2 (Rel-14 onwards)	Rel-14	C20nr	All FR1 NR UEs. The UEs shall support A-GLONASS and periodical reporting				Rel-15
13.7-3	Moving scenario and periodic update: Sub-Test 3 (Rel-14 onwards)	Rel-14	C21nr	All FR1 NR UEs. The UEs shall support A-Galileo and periodical reporting				Rel-15
13.7-4	Moving scenario and periodic update: Sub-Test 4 (Rel-14 onwards)	Rel-14	C22nr	All FR1 NR UEs. The UEs shall support A-GPS and Modernized GPS and periodical reporting				Rel-15
13.7-5	Moving scenario and periodic update: Sub-Test 5 (Rel-14 onwards)	Rel-14	C23nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and periodical reporting				Rel-15
13.7-8	Moving scenario and periodic update: Sub-Test 8 (Rel-14 onwards)	Rel-14	C24nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and periodical reporting				Rel-15
13.7-9	Moving scenario and periodic update: Sub-Test 9 (Rel-14 onwards)	Rel-14	C25nr	All FR1 NR UEs. The UEs shall support A-BDS and periodical reporting (Note 1)				Rel-15
13.7.10	Moving scenario and periodic update: Sub-Test 10 (Rel-14 onwards)	Rel-14	C26nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-BDS and periodical reporting (Note 1)				Rel-15
13.7.11	Moving scenario and periodic update: Sub-Test 11 (Rel-14 onwards)	Rel-14	C33nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-GLONASS and A-BDS and periodical reporting (Note 1)				Rel-15
13.7.12	Moving scenario and periodic update: Sub-Test 12 (Rel-14 onwards)	Rel-14	C31nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-GLONASS and periodical reporting				Rel-15
13.7.13	Moving scenario and periodic update: Sub-Test 13 (Rel-14 onwards)	Rel-14	C32nr	All FR1 NR UEs. The UEs shall support A-GPS/Modernized GPS and A-Galileo and A-BDS and periodical reporting (Note 1)				Rel-15

15	UE Rx-Tx time difference measurement requirements						
15.2.1	UE Rx-Tx time difference measurement period for single positioning frequency layer in FR1 SA	Rel-16	C46nr	All FR1 NR UEs. The UEs shall support Multi-RTT			Rel-16
15.2.2	UE Rx-Tx time difference measurement period for dual positioning frequency layer in FR1 SA	Rel-16	C46nr	All FR1 NR UEs. The UEs shall support Multi-RTT			Rel-16
15.2.3	UE Rx-Tx time difference measurement period for single positioning frequency layer in FR2 SA	Rel-16	C47nr	All FR2 NR UEs. The UEs shall support Multi-RTT			Rel-16
15.2.4	UE Rx-Tx time difference measurement period for dual positioning frequency layer in FR2 SA	Rel-16	C47nr	All FR2 NR UEs. The UEs shall support Multi-RTT			Rel-16

Note 1: If the signal type for BDS supported by the UE includes B1C then Rel-16 of LPP is required.

Table 4-12: Applicability of tests Conditions for RAT-independent test cases in TS 37.571-1 [5] for NR

C33nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND (A.4.1-4/1 OR A.4.1-4/2) AND ((A.4.3-2/1 AND NOT A.4.3-2/24) OR (A.4.3-2/2 AND NOT A.4.3-2/25)) AND A.4.3-2/39 THEN R ELSE N/A
C34nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/6 AND A.4.3-2/3 THEN R ELSE N/A
C35nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/7 AND A.4.3-2/3 THEN R ELSE N/A
C36nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/9 AND A.4.3-2/3 THEN R ELSE N/A
C37nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/8 AND A.4.3-2/3 THEN R ELSE N/A
C38nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/36 AND A.4.3-2/3 THEN R ELSE N/A
C39nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/37 AND A.4.3-2/3 THEN R ELSE N/A
C40nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/18 AND A.4.3-2/3 THEN R ELSE N/A
C41nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/38 AND A.4.3-2/3 THEN R ELSE N/A
C42nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/39 AND A.4.3-2/3 THEN R ELSE N/A
C43nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/40 AND A.4.3-2/3 THEN R ELSE N/A
C44nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.1-4/1 AND (A.4.3-2/1 OR A.4.3-2/2) AND A.4.3-2/41 AND A.4.3-2/3 THEN R ELSE N/A
C45nr	IF A.4.1-1/6 AND A.4.3-2/20 THEN R ELSE N/A
C46nr	IF (A.4.1-1/6 AND A.4.1-5/1) AND A.4.3-2/29 THEN R ELSE N/A
C47nr	IF (A.4.1-1/6 AND A.4.1-5/2) AND A.4.3-2/29 THEN R ELSE N/A

Annex A (normative): ICS proforma for User Equipment

Notwithstanding the provisions of the copyright clause 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 [8].

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.

Mnemonic column

The Mnemonic column contains mnemonic identifiers for each item.

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.

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 User Equipment Under Test (UEUT) identification

UEUT name:

.....
.....

Hardware configuration:

.....
.....
.....

Software configuration:

.....
.....
.....

A.2.3 Product supplier

Name:

.....

Address:

.....
.....
.....

Telephone number:

.....

Facsimile number:

E-mail address:

Additional information:

A.2.4 Client

Name:

.....

Address:

Telephone number:

.....

Facsimile number:

E-mail address:

Additional information:

A.2.5 ICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

E-mail address:

.....

Additional information:

.....

.....

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	Mnemonic	Comments
1	E-UTRA FDD				Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/1
2	E-UTRA TDD				Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/2
3	UTRA FDD				Refer to 3GPP TS 34.123-2 [12] Table A.1/1
4	UTRA TDD				Refer to 3GPP TS 34.123-2 [12] Table A.1/3
5	NB-IOT FDD				Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/8
5a	NB-IOT TDD		Rel-15		Refer to 3GPP TS 36.523-2 [11] Table A.4.1-1/9
6	NR			pc_nr	

Table A.4.1-2: Teleservices

Item	Teleservices	Ref.	Release	Mnemonic	Comments
1	Emergency call				Refer to 3GPP TS 34.123-2 [12] Table A.2/2

Table A.4.1-3: UE Categories

Item	UE Category	Ref.	Release	Mnemonic	Comments
1	Category 1bis	36.306	Rel-13		UE with DL Category 1bis and UL Category 1bis as defined in TS 36.306 [13] Table 4.1A-1 and 4.1A-2
2	Category M1	36.306	Rel-13		UE with DL Category M1 and UL Category M1 as defined in TS 36.306 [13] Table 4.1A-1 and 4.1A-2
3	Category M2	36.306	Rel-13		UE with DL Category M2 and UL Category M2 as defined in TS 36.306 [13] Table 4.1A-1 and 4.1A-2
4	Category NB1	36.306	Rel-13		UE with DL Category NB1 and UL Category NB1 as defined in TS 36.306 [13] Table 4.1C-1 and 4.1C-2
5	Category NB2	36.306	Rel-13		UE with DL Category NB2 and UL Category NB2 as defined in TS 36.306 [13] Table 4.1C-1 and 4.1C-2

Table A.4.1-4: RAN-CN Interface Options

Item	UE support of RAN-CN Interface Options	Ref.	Release	Mnemonic	Comments
1	NG-RAN NR (Option 2)	38.300	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/1
2	EN-DC (Option 3)	37.340	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/2
3	NE-DC (Option 4)	37.340	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/3
4	NG-RAN E-UTRA (Option 5)	38.300	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/4
5	NGEN-DC (Option 7)	37.340	Rel-15		Refer to 3GPP TS 38.508-2 [16] Table A.4.1-3/5

Table A.4.1-5: NR FR support

Item	NR FR support	Ref.	Release	Mnemonic	Comments
1	FR1		Rel-15	pc_nr_Fr1	
2	FR2		Rel-15	pc_nr_Fr2	

A.4.2 Baseline Implementation Capabilities

Table A.4.2-1: Supported Protocols

Item	Special Conformance Testing Functions	Ref.	Release	Mnemonic	Comments
1	LTE Positioning Protocol (LPP)	36.355	Rel-9	pc_LPP	
2	Support for OMA LPPe	OMA-TS-LPPe-V1.0	Rel-9	pc_OMA_LPPe	

Table A.4.2-2: Special Conformance Testing Functions

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	Reset of UE Positioning Stored Information	36.509	Rel-9	E-UTRA
2	Reset of UE Positioning Stored Information	34.109	R99	UTRA
3	Reset of UE Positioning Stored Information	38.509	Rel-15	NR

Table A.4.2-3: Additional Capabilities

Item	Special Conformance Testing Functions	Ref.	Release	Comments
1	Support of Type B Half-duplex FDD operation	36.211, 6.2.5 36.306, 4.2.6	Rel-12	Support of Half-duplex FDD operation type B for category 0 and category M1 UE

A.4.3 UE Positioning Capabilities

Table A.4.3-1: UTRA UE positioning capabilities

Item	UTRA UE positioning capabilities	Ref.	Release	Mnemonic	Comments
1	Support for IPDL	25.306, 4.8	R99	pc_Ue_PositioningIPDL_Sup	
2	Support of GPS timing of cell frames	25.306, 4.8	R99	pc_Ue_PositioningGPS_TimingOfCellFramesSup	
3	Support of UE-based OTDOA	25.306, 4.8	R99	pc_Ue_PositioningBasedOTDOA_Sup	
4	Support of Standalone location method	25.306, 4.8	R99	pc_Ue_PositioningStandaloneLocMethodSup	
5	Support of UE-Based A-GANSS	25.306, 4.8	Rel-8	pc_UeB_A_GANSS	NOTE 1
6	Support of UE-Assisted A-GANSS	25.306, 4.8	Rel-8	pc_UeA_A_GANSS	NOTE 1
7	Support for GLONASS	25.306, 4.8	Rel-8	pc_GLONASS	
8	Support for Modernized GPS	25.306, 4.8	Rel-8	pc_MGPS	
9	Support for Galileo	25.306, 4.8	Rel-12	pc_GALILEO	NOTE 2
10	Support of UE based Network Assisted GPS L1 C/A	25.306, 4.8	R99	pc_UeBasedAgps	
11	Support of UE assisted Network Assisted GPS L1 C/A	25.306, 4.8	R99	pc_UeAssistedAgps	
12	Support of Fine Time Assistance	25.171, 4.4	Rel-6		
13	Support for BDS	25.306, 4.8	Rel-12	pc_BDS	
14	Support for GPS L1 C/A and Modernized GPS	25.306, 4.8	Rel-8	pc_GPS+MGPS	
15	Support for GPS L1 C/A and GLONASS	25.306, 4.8	Rel-8	pc_GPS+GLONASS	
16	Support for GPS L1 C/A and Galileo	25.306, 4.8	Rel-12	pc_GPS+GALILEO	NOTE 2
17	Support for GPS L1 C/A and BDS	25.306, 4.8	Rel-12	pc_GPS+BDS	

NOTE 1: If the capability is supported by the UE, then at least one of A.4.3-1/7, A.4.3-1/8, A.4.3-1/9 or A.4.3-1/13 must be supported as well.

NOTE 2: Non-backwards compatible changes were made to the Galileo Assistance Data in RRC Rel-12, therefore testing cannot be done for earlier releases.

Table A.4.3-2: E-UTRA and NR UE Positioning Capabilities

Item	E-UTRA and NR UE Positioning Capabilities	Ref.	Release	Mnemonic	Comments
1	Support of UE based Assisted-GNSS	36.355	Rel-9	pc_UEB_AG_NSS	This implies support of LPP A.4.2-1/1
2	Support of UE assisted Assisted-GNSS	36.355	Rel-9	pc_UEA_AG_NSS	This implies support of LPP A.4.2-1/1
3	Support of GNSS Fine Time Assistance	36.355, 37.355	Rel-9 (E-UTRA and NR EN-DC) Rel-15 (NR NG-RAN NR)	pc_GNSS_FTA	This implies support of LPP A.4.2-1/1
4	Support of UE assisted OTDOA	36.355	Rel-9	pc_OTDOA	This implies support of LPP A.4.2-1/1
5	Support of UE assisted ECID	36.355	Rel-9 (FDD) Rel-13 (TDD) (NOTE 2)	pc_ECID	This implies support of LPP A.4.2-1/1
6	Support for A-GPS L1C/A	36.355	Rel-9	pc_A_GPS_L1C_A	This implies support of LPP A.4.2-1/1
7	Support for A-GLONASS	36.355	Rel-9	pc_A_GLONASS	This implies support of LPP A.4.2-1/1
8	Support for A-GPS L1C/A and Modernized GPS	36.355	Rel-9	pc_A_GPS_L1C_A_MGPS	This implies support of LPP A.4.2-1/1
9	Support for A-Galileo	36.355	Rel-12	pc_A_Galileo	This implies support of LPP A.4.2-1/1 (NOTE 1)
10	Support of UE Fine Time Assistance measurements for UE-based Assisted-GNSS	36.355, 37.355	Rel-9 (E-UTRA and NR EN-DC) Rel-15 (NR NG-RAN NR)	pc_GNSS_FTA_UEB	This implies support of LPP A.4.2-1/1
11	Support of UE Fine Time Assistance measurements for UE-assisted Assisted-GNSS	36.355, 37.355	Rel-9 (E-UTRA and NR EN-DC) Rel-15 (NR NG-RAN NR)	pc_GNSS_FTA_UEA	This implies support of LPP A.4.2-1/1
12	Support of GNSS Acquisition Assistance	36.355; 37.571-2, 5.4.1	Rel-9	pc_GNSS_AA	This implies support of LPP A.4.2-1/1
13	Support for A-SBAS	36.355	Rel-9	pc_A_SBAS	
14	Support for A-QZSS	36.355	Rel-9	pc_A_QZSS	
15	Support of UE assisted OTDOA for Carrier Aggregation	36.355	Rel-10	pc_OTDOA_CA	This implies support of LPP A.4.2-1/1

16	Support of inter-frequency RSTD measurements that require measurement gaps	36.355	Rel-10	pc_InterFreq_RSTD_with Gaps	This implies support of UE assisted OTDOA A.4.3-2/4
17	Support of inter-frequency RSTD measurements	36.355	Rel-10	pc_InterFreq_RSTD	This implies support of UE assisted OTDOA A.4.3-2/4
18	Support for A-BDS	36.355	Rel-12	pc_A_BDS	This implies support of LPP A.4.2-1/1 (NOTE 3)
19	Support of UE assisted OTDOA for 3DL Carrier Aggregation	36.355	Rel-12	pc_OTDOA_3DLCA	This implies support of LPP A.4.2-1/1
20	Support for UE-Assisted MBS	36.355	Rel-13	pc_UEA_MB_S	This implies support of LPP A.4.2-1/1
21	Support for UE-Assisted WLAN	36.355	Rel-13	pc_WLAN	This implies support of LPP A.4.2-1/1
22	Support for UE-Assisted Bluetooth	36.355	Rel-13	pc_Bluetooth	This implies support of LPP A.4.2-1/1
23	Support for UE-Assisted Sensor	36.355	Rel-13	pc_Sens	This implies support of LPP A.4.2-1/1
24	No support of periodical reporting for UE based Assisted-GNSS.	36.355	Rel-14	pc_UEB_No periodic	This implies support of LPP A.4.2-1/1
25	No support of periodical reporting for UE assisted Assisted-GNSS.	36.355	Rel-14	pc_UEA_No periodic	This implies support of LPP A.4.2-1/1
26	Support for UE-Based MBS	36.355	Rel-14	pc_UEB_MB_S	This implies support of LPP A.4.2-1/1
27	Support for UE-Based WLAN	36.355	Rel-14	pc_UEB_WLAN	This implies support of LPP A.4.2-1/1
28	Support for UE-Based Sensor	36.355	Rel-14	pc_UEB_Sensor	This implies support of LPP A.4.2-1/1
29	Support for UE-Assisted Multi-RTT	37.355	Rel-16	pc_Multi_RT	This implies support of LPP A.4.2-1/1
30	Support for UE-Assisted DL-AoD	37.355	Rel-16	pc_UEA_DL_AoD	This implies support of LPP A.4.2-1/1
31	Support for UE-Based DL-AoD	37.355	Rel-16	pc_UEB_DL_AoD	This implies support of LPP A.4.2-1/1
32	Support for UE-Assisted DL-TDOA	37.355	Rel-16	pc_UEA_DL_TDOA	This implies support of LPP A.4.2-1/1
33	Support for UE-Based DL-TDOA	37.355	Rel-16	pc_UEB_DL_TDOA	This implies support of LPP A.4.2-1/1
34	Support for UE-Assisted NR E-CID	37.355	Rel-16	pc_NR_ECID	This implies support of LPP A.4.2-1/1
35	Support for NR UL-SRS-Capability	37.355	Rel-16	pc_NR_UL_SRS_Capability	This implies support of LPP A.4.2-1/1
36	Support for GPS L1 C/A and GLONASS	36.355	Rel-9	pc_A_GPS+GLONASS	This implies support of LPP A.4.2-1/1
37	Support for GPS L1 C/A and Galileo	36.355	Rel-12	pc_A_GPS+Galileo	This implies support of LPP A.4.2-1/1. (NOTE 1)
38	Support for GPS L1 C/A and BDS	36.355	Rel-12	pc_A_GPS+BDS	This implies support of LPP A.4.2-1/1 (NOTE 3)
39	Support for GPS L1 C/A, GLONASS and BDS	36.355	Rel-12	pc_A_GPS+GLONASS+BDS	This implies support of LPP A.4.2-1/1 (NOTE 3)
40	Support for GPS L1 C/A, GLONASS and Galileo	36.355	Rel-12	pc_A_GPS+GLONASS+Galileo	This implies support of LPP A.4.2-1/1. (NOTE 1)
41	Support for GPS L1 C/A, BDS and Galileo	36.355	Rel-12	pc_A_GPS+Galileo+BDS	This implies support of LPP A.4.2-1/1. (NOTE 1) (NOTE 3)
NOTE 1: Non-backwards compatible changes were made to the Galileo Assistance Data in LPP Rel-12, therefore testing cannot be done for earlier releases.					
NOTE 2: For TDD with LPP releases before Rel-13 the UE Rx - Tx time difference measurement report mapping is ambiguous and therefore testing shall not be performed.					
NOTE 3: If the signal type for BDS supported by the UE includes B1C then Rel-16 of LPP is required.					

Table A.4.3-3: Supplementary Services

Item	Supplementary Services	Ref.	Release	Mnemonic	Comments
1	Support of EPC-MO-LR request for assistance data	24.171; 24.030; 24.080	Rel-9	pc_EPC_MO_LR_Requ estAssistanceData	
2	Support of EPC-MO-LR request for a position estimate	24.171; 24.030; 24.080	Rel-9	pc_EPC_MO_LR_Requ estPositionEstimate	
3	Support of EPC-MT-LR Location Notification	24.171; 24.030; 24.080	Rel-9	pc_MT_LR_loc_notif	
4	Support for CS-MO-LR with CS Fallback for a position estimate	23.272	Rel-9	pc_CS_MO_LR_CSFall back	
5	Support of MO-LR request for assistance data	24.030, 5.1.1; 24.080, 4.4.3.44; 23.171, 8.1.1	R99	pc_ParamGpsAssisData	UTRA
6	Support of MO-LR request for a position estimate	23.171, 8.1.1	R99	pc_ParamPosEstimate	UTRA
7	Support of MO-LR request for transfer to 3rd party	23.171, 8.1.1	R99	pc_ParamXfer3rdPty	UTRA
8	Support of MT-LR LCS value added location request notification capability	24.030; 23.271	R99	pc_MT_LR	UTRA

Table A.4.3-3A: OTDOA Measurements

Item	OTDOA Measurements	Ref.	Release	Mnemonic	Comments
1	Support of interFreqSTDmeasurement	36.355, 6.5.1.7	Rel-10	pc_OTDOA_interFreqRS TDmeasurement	
2	Support of additionalNeighbourCellInfoList	36.355, 6.5.1.7	Rel-10	pc_OTDOA_additionalNe ighbourCellInfoList	
3	Support of prs-id	36.355, 6.5.1.7	Rel-14	pc_OTDOA_prs_id	
4	Support of tp-separation-via-muting	36.355, 6.5.1.7	Rel-14	pc_OTDOA_tp_separatio n_via_muting	
5	Support of additional-prs-config	36.355, 6.5.1.7	Rel-14	pc_OTDOA_additional_p rs_config	
6	Support of prs-based-tbs	36.355, 6.5.1.7	Rel-14	pc_OTDOA_prs_based_t bs	
7	Support of additionalPathsReport	36.355, 6.5.1.7	Rel-14	pc_OTDOA_additionalPa thsReport	
8	Support of densePrsConfig	36.355, 6.5.1.7	Rel-14	pc_OTDOA_densePrsCo nfig	
9	maxSupportedPrsBandwidth	36.355, 6.5.1.7	Rel-14	pc_OTDOA_maxSupport edPrsBandwidth	
10	Support of prsOccGroup	36.355, 6.5.1.7	Rel-14	pc_OTDOA_prsOccGrou p	
11	Support of prsFrequencyHopping	36.355, 6.5.1.7	Rel-14	pc_OTDOA_prsFrequenc yHopping	
12	maxSupportedPrsConfigs	36.355, 6.5.1.7	Rel-14	pc_OTDOA_maxSupport edPrsConfigs	
13	Support of periodicalReporting	36.355, 6.5.1.7	Rel-14	pc_OTDOA_periodicalRe porting	
14	Support of multiPrbNprs	36.355, 6.5.1.7	Rel-14	pc_OTDOA_multiPrbNpr s	
15	Support of idleStateForMeasurements	36.355, 6.5.1.7	Rel-14	pc_OTDOA_idleStateFor Measurements	
16	numberOfRXantennas	36.355, 6.5.1.7	Rel-14	pc_OTDOA_numberOfR Xantennas	
17	Support of motionMeasurements	37.355, 6.5.1.7	Rel-15	pc_OTDOA_motionMeas urements	
18	Support of interRAT-RSTDmeasurement	37.355, 6.5.1.7	Rel-15	pc_OTDOA_interRAT_R STDmeasurement	Inter-RAT RSTD for EUTRA measurements as described in 38.215 [18], 5.1.13

Table A.4.3-4: E-CID Measurements

Item	E-CID Measurements	Ref.	Release	Mnemonic	Comments
1	Support of RSRP	36.355, 6.5.3.4	Rel-9	pc_ECID_Rsrp	
2	Support of RSRQ	36.355, 6.5.3.4	Rel-9	pc_ECID_Rsrq	
3	Support of UE Rx-Tx Time Difference	36.355, 6.5.3.4	Rel-9	pc_ECID_UeRxTx	
4	Support of ueRxTxSupTDD	36.355, 6.5.3.4	Rel-13	pc_ECID_ueRxTxSupTD D	
5	Support of periodicalReporting	36.355, 6.5.3.4	Rel-14	pc_ECID_periodicalRepo rting	
6	Support of triggeredReporting	36.355, 6.5.3.4	Rel-14	pc_ECID_triggeredRepor ting	
7	idleStateForMeasurements required	36.355, 6.5.3.4	Rel-14	pc_ECID_idleStateForMe asurements	

Table A.4.3-5: GNSS Signals

Item	GNSS Signals Capabilities	Ref.	Release	Mnemonic	Comments
1	Support of A-GPS L1C signal	36.355, 6.5.2.13	Rel-9	pc_A_GPS_L1C	
2	Support of A-GPS L2C signal	36.355, 6.5.2.13	Rel-9	pc_A_GPS_L2C	
3	Support of A-GPS L5 signal	36.355, 6.5.2.13	Rel-9	pc_A_GPS_L5	
4	Support of QZS-L1 C/A signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L1	
5	Support of QZS-L1C signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L1C	
6	Support of QZS-L2C signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L2C	
7	Support of QZS-L5 signal in QZSS	36.355, 6.5.2.13	Rel-9	pc_QZSS_QZS_L5	
8	Support of G1 C/A signal in GLONASS	36.355, 6.5.2.13	Rel-9	pc_GLONASS_G1	
9	Support of G2 C/A signal in GLONASS	36.355, 6.5.2.13	Rel-9	pc_GLONASS_G2	
10	Support of G3 signal in GLONASS	36.355, 6.5.2.13	Rel-9	pc_GLONASS_G3	
11	Support of E1 signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E1	
12	Support of E5a signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E5a	
13	Support of E5b signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E5b	
14	Support of E6 signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E6	
15	Support of E5a+E5b signal in Galileo	36.355, 6.5.2.13	Rel-12	pc_GALILEO_E5aE5b	
16	Support of B1 I signal in BDS	36.355, 6.5.2.13	Rel-12	pc_BDS_B1I	
17	Support of B1C signal in BDS	37.355, 6.5.2.13	Rel-16	pc_BDS_B1C	

Table A.4.3-6: ADR and Velocity Measurements

Item	ADR and Velocity Measurements	Ref.	Release	Mnemonic	Comments
1	Support of ADR measurement reporting for Gps	36.355, 6.5.2.9	Rel-9	pc_A_GPS_ADR	
2	Support of ADR measurement reporting for Sbas	36.355, 6.5.2.9	Rel-9	pc_SBAS_ADR	
3	Support of ADR measurement reporting for Qzss	36.355, 6.5.2.9	Rel-9	pc_QZSS_ADR	
4	Support of ADR measurement reporting for Galileo	36.355, 6.5.2.9	Rel-12	pc_GALILEO_ADR	
5	Support of ADR measurement reporting for Glonass	36.355, 6.5.2.9	Rel-9	pc_GLONASS_ADR	
6	Support of Velocity measurement reporting for Gps	36.355, 6.5.2.9	Rel-9	pc_A_GPS_VelocityMeas	
7	Support of Velocity measurement reporting for Sbas	36.355, 6.5.2.9	Rel-9	pc_SBAS_VelocityMeas	
8	Support of Velocity measurement reporting for Qzss	36.355, 6.5.2.9	Rel-9	pc_QZSS_VelocityMeas	
9	Support of Velocity measurement reporting for Galileo	36.355, 6.5.2.9	Rel-12	pc_GALILEO_VelocityMeas	
10	Support of Velocity measurement reporting for Glonass	36.355, 6.5.2.9	Rel-9	pc_GLONASS_VelocityMeas	
11	Support of ADR measurement reporting for BDS	36.355, 6.5.2.9	Rel-12	pc_BDS_ADR	
12	Support of Velocity measurement reporting for BDS	36.355, 6.5.2.9	Rel-12	pc_BDS_VelocityMeas	
13	Support of ADR enhancements for Gps	37.355, 6.5.2.9	Rel-15	pc_A_GPS_ADR_ENH	Requires support of pc_A_GPS_ADR
14	Support of ADR enhancements for Sbas	37.355, 6.5.2.9	Rel-15	pc_SBAS_ADR_ENH	Requires support of pc_SBAS_ADR
15	Support of ADR enhancements for Qzss	37.355, 6.5.2.9	Rel-15	pc_QZSS_ADR_ENH	Requires support of pc_QZSS_ADR
16	Support of ADR enhancements for Galileo	37.355, 6.5.2.9	Rel-15	pc_GALILEO_ADR_ENH	Requires support of pc_GALILEO_ADR
17	Support of ADR enhancements for Glonass	37.355, 6.5.2.9	Rel-15	pc_GLONASS_ADR_ENH	Requires support of pc_GLONASS_ADR
18	Support of ADR enhancements for BDS	37.355, 6.5.2.9	Rel-15	pc_BDS_ADR_ENH	Requires support of pc_BDS_ADR
19	Support of High accuracy GNSS modes for Gps	37.355, 6.5.2.9	Rel-15	pc_A_GPS_HA	
20	Support of High accuracy GNSS modes for Sbas	37.355, 6.5.2.9	Rel-15	pc_SBAS_HA	
21	Support of High accuracy GNSS modes for Qzss	37.355, 6.5.2.9	Rel-15	pc_QZSS_HA	
22	Support of High accuracy GNSS modes for Galileo	37.355, 6.5.2.9	Rel-15	pc_GALILEO_HA	
23	Support of High accuracy GNSS modes for Glonass	37.355, 6.5.2.9	Rel-15	pc_GLONASS_HA	
24	Support of High accuracy GNSS modes for BDS	37.355, 6.5.2.9	Rel-15	pc_BDS_HA	

Table A.4.3-6A: NR E-CID Measurements

Item	NR E-CID Measurements	Ref.	Release	Mnemonic	Comments
1	Support of SS RSRP	37.355, 6.5.9.4	Rel-16	pc_NR_ECID_SSRSRP	
2	Support of SS RSRQ	37.355, 6.5.9.4	Rel-16	pc_NR_ECID_SSRSRQ	
3	Support of CSI RSRP	37.355, 6.5.9.4	Rel-16	pc_NR_ECID_CSIRSRP	
4	Support of CSI RSRQ	37.355, 6.5.9.4	Rel-16	pc_NR_ECID_CSRSRQ	
5	Support of periodicalReporting	37.355, 6.5.9.4	Rel-16	pc_NR_ECID_periodicReporting	
6	Support of triggeredReporting	37.355, 6.5.9.4	Rel-16	pc_NR_ECID_triggeredReporting	

Table A.4.3-6B: NR DL-PRS Capability

Item	NR DL-PRS Capability	Ref.	Release	Mnemonic	Comments
1	maxNrOfDL-PRS-ResourceSetPerTrpPerFrequencyLayer	37.355, 6.4.3	Rel-16	pc_maxNrOfDL_PRS_ResourceSetPerTrpPerFrequencyLayer	
2	maxNrOfTRP-AcrossFreqs	37.355, 6.4.3	Rel-16	pc_maxNrOfTRP_AcrossFreqs	
3	maxNrOfPosLayer	37.355, 6.4.3	Rel-16	pc_maxNrOfPosLayer	
4	maxNrOfDL-PRS-ResourcesPerResourceSet	37.355, 6.4.3	Rel-16	pc_maxNrOfDL_PRS_ResourcesPerResourceSet	
5	maxNrOfDL-PRS-ResourcesPerPositioningFrequencyLayer	37.355, 6.4.3	Rel-16	pc_maxNrOfDL_PRS_ResourcesPerPositioningFrequencyLayer	
6	maxNrOfDL-PRS-ResourcesAcrossAllFL-TRP-ResourceSet-fr1-Only	37.355, 6.4.3	Rel-16	pc_maxNrOfDL_PRS_ResourcesAcrossAllFL_TRP_ResourceSet_fr1_Only	
7	maxNrOfDL-PRS-ResourcesAcrossAllFL-TRP-ResourceSet-fr2-Only	37.355, 6.4.3	Rel-16	pc_maxNrOfDL_PRS_ResourcesAcrossAllFL_TRP_ResourceSet_fr2_Only	
8	maxNrOfDL-PRS-ResourcesAcrossAllFL-TRP-ResourceSet - fr1-FR2Mix-fr1	37.355, 6.4.3	Rel-16	pc_maxNrOfDL_PRS_ResourcesAcrossAllFL_TRP_ResourceSet_fr1_FR2Mix_fr1	
9	Support of ssb-FromNeighCellAsQCL for at least one NR band	37.355, 6.4.3	Rel-16	pc_ssbs_FromNeighCellAsQCL	
10	Support of prs-FromServNeighCellAsQCL for at least one NR band	37.355, 6.4.3	Rel-16	pc_prs_FromServNeighCellAsQCL	
11	maxSupportedFreqLayers	37.355, 6.4.3	Rel-16	pc_maxSupportedFreqLayers	
12	Support of simulLTE-NR-PRS	37.355, 6.4.3		pc_simulLTE_NR_PRS	
13	supportedBandwidthPRS in FR1 for at least one NR band	37.355, 6.4.3	Rel-16	pc_supportedBandwidthPRS_FR1	
14	supportedBandwidthPRS in FR2 for at least one NR band	37.355, 6.4.3	Rel-16	pc_supportedBandwidthPRS_FR2	
15	dl-PRS-BufferType for at least one NR band	37.355, 6.4.3	Rel-16	pc_dl_PRS_BufferType	
16	durationOfPRS-ProcessingSymbols for at least one NR band	37.355, 6.4.3	Rel-16	pc_durationOfPRS_ProcessingSymbols	
17	PRS-ProcessingSymbolsInEveryTms for at least one NR band	37.355, 6.4.3	Rel-16	pc_PRS_ProcessingSymbolsInEveryTms	
18	maxNumOfDL-PRS-ResProcessedPerSlot in 15kHz SCS for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumOfDL_PRS_ResProcessedPerSlot_SCS15	
19	maxNumOfDL-PRS-ResProcessedPerSlot in 30kHz SCS for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumOfDL_PRS_ResProcessedPerSlot_SCS30	
20	maxNumOfDL-PRS-ResProcessedPerSlot in 60kHz SCS for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumOfDL_PRS_ResProcessedPerSlot_SCS60	
21	maxNumOfDL-PRS-ResProcessedPerSlot in 120kHz SCS for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumOfDL_PRS_ResProcessedPerSlot_SCS120	
22	maxNrOfDL-PRS-ResourcesAcrossAllFL-TRP-ResourceSet-fr1-FR2Mix-fr2	37.355, 6.4.3	Rel-16	pc_maxNrOfDL_PRS_ResourcesAcrossAllFL_TRP_ResourceSet_fr1_FR2Mix_fr2	

Table A.4.3-6C: NR Multi-RTT Measurements

Item	NR Multi-RTT Measurements	Ref.	Release	Mnemonic	Comments
1	maxNrOfRx-TX-MeasFR1	37.355, 6.5.12.6	Rel-16	pc_maxNrOfRx_TX_MeasFR1	
2	maxNrOfRx-TX-MeasFR2	37.355, 6.5.12.6	Rel-16	pc_maxNrOfRx_TX_MeasFR2	
3	Support of RSRP-MeasFR1	37.355, 6.5.12.6	Rel-16	pc_RSRP_MeasFR1	
4	Support of RSRP-MeasFR2	37.355, 6.5.12.6	Rel-16	pc_RSRP_MeasFR2	
5	Support of srs-AssocPRS-MultiLayersFR1	37.355, 6.5.12.6	Rel-16	pc_srs_AssocPRS_MultiLayersFR1	
6	Support of srs-AssocPRS-MultiLayersFR2	37.355, 6.5.12.6	Rel-16	pc_srs_AssocPRS_MultiLayersFR2	
7	Support of additionalPathsReport	37.355, 6.5.12.6	Rel-16	pc_Multi_RTT_additionalPathsReport	
8	Support of periodicalReporting	37.355, 6.5.12.6	Rel-16	pc_Multi_RTT_periodicalReporting	

Table A.4.3-6D: NR UL-SRS Capability

Item	NR UL-SRS Capability	Ref.	Release	Mnemonic	Comments
1	maxNumberSRS-PosPathLossEstimateAllServingCells	37.355, 6.4.3	Rel-16	pc_maxNumberSRS_PosPathLossEstimateAllServingCells	
2	maxNumberSRS-PosSpatialRelationsAllServingCells	37.355, 6.4.3	Rel-16	pc_maxNumberSRS_PosSpatialRelationsAllServingCells	
3	Support of olpc-SRS-PosBasedOnPRS-Serving for at least one NR band	37.355, 6.4.3	Rel-16	pc_olpc_SRS_PosBasedOnPRS_Serving	
4	Support of olpc-SRS-PosBasedOnSSB-Neigh for at least one NR band	37.355, 6.4.3	Rel-16	pc_olpc_SRS_PosBasedOnSSB_Neigh	
5	Support of olpc-SRS-PosBasedOnPRS-Neigh for at least one NR band	37.355, 6.4.3	Rel-16	pc_olpc_SRS_PosBasedOnPRS_Neigh	
6	maxNumberPathLossEstimatePerServing for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumberPathLossEstimatePerServing	
7	Support of spatialRelation-SRS-PosBasedOnSSB-Serving for at least one NR band	37.355, 6.4.3	Rel-16	pc_spatialRelation_SR_S_PosBasedOnSSB_Serving	
8	Support of spatialRelation-SRS-PosBasedOnCSI-RS-Serving for at least one NR band	37.355, 6.4.3	Rel-16	pc_spatialRelation_SR_S_PosBasedOnCSI_RS_Serving	
9	Support of spatialRelation-SRS-PosBasedOnPRS-Serving for at least one NR band	37.355, 6.4.3	Rel-16	pc_spatialRelation_SR_S_PosBasedOnPRS_Serving	
10	Support of spatialRelation-SRS-PosBasedOnSRS for at least one NR band	37.355, 6.4.3	Rel-16	pc_spatialRelation_SR_S_PosBasedOnSRS	
11	Support of spatialRelation-SRS-PosBasedOnSSB-Neigh for at least one NR band	37.355, 6.4.3	Rel-16	pc_spatialRelation_SR_S_PosBasedOnSSB_Neigh	
12	Support of spatialRelation-SRS-PosBasedOnPRS-Neigh for at least one NR band	37.355, 6.4.3	Rel-16	pc_spatialRelation_SR_S_PosBasedOnPRS_Neigh	
13	maxNumberSRS-PosResourceSetsPerBWP for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumberSRS_PosResourceSetsPerBWP	
14	maxNumberSRS-PosResourcesPerBWP for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumberSRS_PosResourcesPerBWP	
15	maxNumberPeriodicSRS-PosResourcesPerBWP for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumberPeriodicSRS_PosResourcesPerBWP	
16	maxNumberAP-SRS-PosResourcesPerBWP for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumberAP_SR_S_PosResourcesPerBWP	
17	maxNumberSP-SRS-PosResourcesPerBWP for at least one NR band	37.355, 6.4.3	Rel-16	pc_maxNumberSP_SR_S_PosResourcesPerBWP	

Table A.4.3-6E: NR DL-AoD Measurements

Item	NR DL-AoD Measurements	Ref.	Release	Mnemonic	Comments
1	maxDL-PRS-RSRP-MeasurementFR1	37.355, 6.5.11.6	Rel-16	pc_maxDL_PRS_RSRP_MeasurementFR1	
2	maxDL-PRS-RSRP-MeasurementFR2	37.355, 6.5.11.6	Rel-16	pc_maxDL_PRS_RSRP_MeasurementFR2	
3	Support of simul-NR-DL-AoD-DL-TDOA for at least one NR band	37.355, 6.5.11.6	Rel-16	pc_simul_NR_DL_AoD_DL_TDOA	
4	Support of simul-NR-DL-AoD-Multi-RTT for at least one NR band	37.355, 6.5.11.6	Rel-16	pc_simul_NR_DL_AoD_Multi_RTT	
5	Support of periodicalReporting in standalone mode	37.355, 6.5.11.6	Rel-16	pc_DL_AoD_periodical_Reportin_g_standalone	
6	Support of periodicalReporting in UE-based mode	37.355, 6.5.11.6	Rel-16	pc_DL_AoD_periodical_Reportin_g_UEB	
7	Support of periodicalReporting in UE-assisted mode	37.355, 6.5.11.6	Rel-16	pc_DL_AoD_periodical_Reportin_g_UEA	

Table A.4.3-6F: NR DL-TDOA Measurements

Item	NR DL-TDOA Measurements	Ref.	Release	Mnemonic	Comments
1	dl-RSTD-MeasurementPerPairOfTRP-FR1	37.355, 6.5.10.6	Rel-16	pc_dl_RSTD_MeasurementPerPairOfTRP_FR1	
2	dl-RSTD-MeasurementPerPairOfTRP-FR2	37.355, 6.5.10.6	Rel-16	pc_dl_RSTD_MeasurementPerPairOfTRP_FR2	
3	Support of DL-PRS-RSRP-MeasFR1	37.355, 6.5.10.6	Rel-16	pc_DL_PRS_RSRP_MeasFR1	
4	Support of DL-PRS-RSRP-MeasFR2	37.355, 6.5.10.6	Rel-16	pc_DL_PRS_RSRP_MeasFR2	
5	Support of additionalPathsReport	37.355, 6.5.10.6	Rel-16	pc_DL_TDOA_additionalPathsReport	
6	Support of periodicalReporting in standalone mode	37.355, 6.5.10.6	Rel-16	pc_DL_TDOA_periodicalReporting_standalone	
7	Support of periodicalReporting in UE-based mode	37.355, 6.5.10.6	Rel-16	pc_DL_TDOA_periodicalReporting_UEB	
8	Support of periodicalReporting in UE-assisted mode	37.355, 6.5.10.6	Rel-16	pc_DL_TDOA_periodicalReporting_UEA	

Table A.4.3-7: GNSS Assistance Data Support

Item	GNSS Assistance Data Support	Ref.	Release	Mnemonic	Comments
1	Gnss-ReferenceTimeSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_RefTimeSup	
2	Gnss-ReferenceLocationSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_RefLocSup	
3	Gnss-IonosphericModelSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_IonoModSup	
4	Gnss-EarthOrientationParametersSupport (Common Assistance Data)	36.355, 6.5.2.9	Rel-9	pc_GNSS_EOPSup	
5	Gnss-TimeModelsSupport for GPS	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Gps	
6	Gnss-TimeModelsSupport for SBAS	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Sbas	
7	Gnss-TimeModelsSupport for QZSS	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Qzss	
8	Gnss-TimeModelsSupport for Galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_TimeModSup_Galileo	
9	Gnss-TimeModelsSupport for GLONASS	36.355, 6.5.2.9	Rel-9	pc_GNSS_TimeModSup_Glonass	
10	Gnss-DifferentialCorrectionsSupport for GPS L1 C/A	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Gps	
11	Gnss-DifferentialCorrectionsSupport for SBAS	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Sbas	
12	Gnss-DifferentialCorrectionsSupport for QZSS	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Qzss	
13	Gnss-DifferentialCorrectionsSupport for Galileo E1	36.355, 6.5.2.9	Rel-12	pc_GNSS_DGNSS_Sup_Galileo	
14	Gnss-DifferentialCorrectionsSupport for GLONASS	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Glonass	
15	Gnss-NavigationModelSupport for GPS (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Gps	
16	Gnss-NavigationModelSupport for SBAS (Model-5)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Sbas	
17	Gnss-NavigationModelSupport for QZSS (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Qzss	
18	Gnss-NavigationModelSupport for Galileo (Model-1)	36.355, 6.5.2.9	Rel-12	pc_GNSS_NavModSup_Galileo	
19	Gnss-NavigationModelSupport for GLONASS (Model-4)	36.355, 6.5.2.9	Rel-9	pc_GNSS_NavModSup_Glonass	
20	Gnss-RealTimeIntegritySupport for GPS	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Gps	
21	Gnss-RealTimeIntegritySupport for SBAS	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Sbas	
22	Gnss-RealTimeIntegritySupport for QZSS	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Qzss	
23	Gnss-RealTimeIntegritySupport for Galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_RTISup_Galileo	
24	Gnss-RealTimeIntegritySupport for GLONASS	36.355, 6.5.2.9	Rel-9	pc_GNSS_RTISup_Glonass	
25	Gnss-DataBitAssistanceSupport for GPS	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Gps	
26	Gnss-DataBitAssistanceSupport for SBAS	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Sbas	
27	Gnss-DataBitAssistanceSupport for QZSS	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Qzss	
28	Gnss-DataBitAssistanceSupport for Galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_DataBitsSup_Galileo	
29	Gnss-DataBitAssistanceSupport for GLONASS	36.355, 6.5.2.9	Rel-9	pc_GNSS_DataBitsSup_Glonass	
30	Gnss-AcquisitionAssistanceSupport for GPS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Gps	

31	Gnss-AcquisitionAssistanceSupport for SBAS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Sbas	
32	Gnss-AcquisitionAssistanceSupport for QZSS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Qzss	
33	Gnss-AcquisitionAssistanceSupport for Galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_AcquAssistSup_Galileo	
34	Gnss-AcquisitionAssistanceSupport for GLONASS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AcquAssistSup_Glonass	
35	Gnss-AlmanacSupport for GPS (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Gps	
36	Gnss-AlmanacSupport for SBAS (Model-6)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Sbas	
37	Gnss-AlmanacSupport for QZSS (Model-2)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Qzss	
38	Gnss-AlmanacSupport for Galileo (Model-1)	36.355, 6.5.2.9	Rel-12	pc_GNSS_AlmanacSup_Galileo	
39	Gnss-AlmanacSupport for GLONASS (Model-5)	36.355, 6.5.2.9	Rel-9	pc_GNSS_AlmanacSup_Glonass	
40	Gnss-UTC-ModelSupport for GPS (Model-1)	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Gps	
41	Gnss-UTC-ModelSupport for SBAS (Model-4)	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Sbas	
42	Gnss-UTC-ModelSupport for QZSS (Model-1)	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Qzss	
43	Gnss-UTC-ModelSupport for Galileo (Model-1)	36.355, 6.5.2.9	Rel-12	pc_GNSS_UTCModSup_Galileo	
44	Gnss-UTC-ModelSupport for GLONASS (Model-3)	36.355, 6.5.2.9	Rel-9	pc_GNSS_UTCModSup_Glonass	
45	Gnss-AuxiliaryInformationSupport for GPS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Gps	
46	Gnss-AuxiliaryInformationSupport for SBAS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Sbas	
47	Gnss-AuxiliaryInformationSupport for QZSS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Qzss	
48	Gnss-AuxiliaryInformationSupport for Galileo	36.355, 6.5.2.9	Rel-12	pc_GNSS_AuxInfoSup_Galileo	
49	Gnss-AuxiliaryInformationSupport for GLONASS	36.355, 6.5.2.9	Rel-9	pc_GNSS_AuxInfoSup_Glonass	
50	Gnss-TimeModelsSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_TimeModSup_BDS	
51	Gnss-DifferentialCorrectionsSupport for BDS B1I	36.355, 6.5.2.9	Rel-12	pc_GNSS_DGNSS_Sup_BDS	
52	Gnss-NavigationModelSupport for BDS (Model-6)	36.355, 6.5.2.9	Rel-12	pc_GNSS_NavModSup_BDS	
53	Gnss-RealTimeIntegritySupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_RTISup_BDS	
54	Gnss-DataBitAssistanceSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_DataBitsSup_BDS	
55	Gnss-AcquisitionAssistanceSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_AcquAssistSup_BDS	
56	Gnss-AlmanacSupport for BDS (Model-7)	36.355, 6.5.2.9	Rel-12	pc_GNSS_AlmanacSup_BDS	
57	Gnss-UTC-ModelSupport for BDS (Model-5)	36.355, 6.5.2.9	Rel-12	pc_GNSS_UTCModSup_BDS	
58	Gnss-AuxiliaryInformationSupport for BDS	36.355, 6.5.2.9	Rel-12	pc_GNSS_AuxInfoSup_BDS	
59	Bds-DifferentialCorrectionsSupport for B1I	36.355, 6.5.2.9	Rel-12	pc_BDS_DiffCorr	
60	Bds-GridModelSupport	36.355, 6.5.2.9	Rel-12	pc_BDS_GridMod	
61	Support of GNSS-AcquisitionAssistance for GPS L1 C/A	36.355, 6.5.2.2	Rel-9	pc_GNSS_AcquAssist_GPS_L1CA	
62	Support of GNSS-AcquisitionAssistance for GPS L5	36.355, 6.5.2.2	Rel-9	pc_GNSS_AcquAssist_GPS_L5	

63	Support of GNSS-AcquisitionAssistance for Galileo E1	36.355, 6.5.2.2	Rel-12	pc_GNSS_AcquAssist_Galileo_E1	
64	Support of GNSS-AcquisitionAssistance for Galileo E5A	36.355, 6.5.2.2	Rel-12	pc_GNSS_AcquAssist_Galileo_E5A	
65	Gnss-RTK-ReferenceStationInfoSupport-r15 (Common assistance data)	37.355, 6.5.2.9	Rel-15	pc_GNSS_RTK_RefStationInfo	
66	Gnss-RTK-AuxiliaryStationDataSupport-r15 (Common assistance data)	37.355, 6.5.2.9	Rel-15	pc_GNSS_RTK_AuxStationInfo	
67	Gnss-RTK-ObservationsSupport-r15 for GPS L1 C/A	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Gps	
68	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for GPS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_MAC_CorrectionDifferences_Gps	
69	Gnss-RTK-ResidualsSupport-r15 for GPS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_Residuals_Gps	
70	Gnss-RTK-FKP-GradientsSupport-r15 for GPS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_FKP_Gradients_Gps	
71	Gnss-SSR-OrbitCorrectionsSupport-r15 for GPS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_OrbitCorrections_Gps	
72	Gnss-SSR-ClockCorrectionsSupport-r15 for GPS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_ClockCorrections_Gps	
73	Gnss-SSR-CodeBiasSupport-r15 for GPS L1 C/A	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_CodeBias_Gps	
74	Glo-RTK-BiasInformationSupport-r15	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_BiasInfo_Glonass	
75	Gnss-RTK-ObservationsSupport-r15 for GLONASS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Glonass	
76	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for GLONASS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_MAC_CorrectionDifferences_Glonass	
77	Gnss-RTK-ResidualsSupport-r15 for GLONASS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_Residuals_Glonass	
78	Gnss-RTK-FKP-GradientsSupport-r15 for GLONASS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_FKP_Gradients_Glonass	
79	Gnss-SSR-OrbitCorrectionsSupport-r15 for GLONASS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_OrbitCorrections_Glonass	
80	Gnss-SSR-ClockCorrectionsSupport-r15 for GLONASS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_ClockCorrections_Glonass	
81	Gnss-SSR-CodeBiasSupport-r15 for GLONASS	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_CodeBias_Glonass	
82	Gnss-RTK-ObservationsSupport-r15 for Galileo	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Galileo	
83	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for Galileo	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_MAC_CorrectionDifferences_Galileo	
84	Gnss-RTK-ResidualsSupport-r15 for Galileo	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_Residuals_Galileo	
85	Gnss-RTK-FKP-GradientsSupport-r15 for Galileo	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_FKP_Gradients_Galileo	
86	Gnss-SSR-OrbitCorrectionsSupport-r15 for Galileo	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_OrbitCorrections_Galileo	
87	Gnss-SSR-ClockCorrectionsSupport-r15 for Galileo	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_ClockCorrections_Galileo	
88	Gnss-SSR-CodeBiasSupport-r15 for Galileo E1	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_SSR_CodeBias_Galileo	
89	Gnss-RTK-ObservationsSupport-r15 for BDS B1I	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTK_OBS_Bds	

90	Gnss-RTK-MAC-CorrectionDifferencesSupport-r15 for BDS	37.355, 6.5.2.10	Rel-15	pc_GNSS RTK_MAC_CorrectionDifferences_Bds	
91	Gnss-RTK-ResidualsSupport-r15 for BDS	37.355, 6.5.2.10	Rel-15	pc_GNSS RTK_Residuals_Bds	
92	Gnss-RTK-FKP-GradientsSupport-r15 for BDS	37.355, 6.5.2.10	Rel-15	pc_GNSS RTK_FKP_Gradients_Bds	
93	Gnss-SSR-OrbitCorrectionsSupport-r15 for BDS	37.355, 6.5.2.10	Rel-15	pc_GNSS RTK_SSR_OrbitCorrections_Bds	
94	Gnss-SSR-ClockCorrectionsSupport-r15 for BDS	37.355, 6.5.2.10	Rel-15	pc_GNSS RTK_SSR_ClockCorrections_Bds	
95	Gnss-SSR-CodeBiasSupport-r15 for BDS B1I	37.355, 6.5.2.10	Rel-15	pc_GNSS RTK_SSR_CodeBias_Bds	
97	Bds-GridModelSupport-r12	36.355, 6.5.2.10	Rel-12	pc_GNSS_GridModel_Bds	
98	Support of GNSS-AcquisitionAssistance for BDS B1I	36.355, 6.5.2.2	Rel-12	pc_GNSS_AcquAssist_BDS_B1I	
99	Support of GNSS-AcquisitionAssistance for BDS B1C	37.355, 6.5.2.2	Rel-16	pc_GNSS_AcquAssist_BDS_B1C	
100	Gnss-DifferentialCorrectionsSupport for GPS L5	36.355, 6.5.2.9	Rel-9	pc_GNSS_DGNSS_Sup_Gps_L5	
101	Gnss-DifferentialCorrectionsSupport for Galileo E5A	36.355, 6.5.2.9	Rel-12	pc_GNSS_DGNSS_Sup_Galileo_E5A	
102	Gnss-DifferentialCorrectionsSupport for BDS B1C	37.355, 6.5.2.9	Rel-16	pc_GNSS_DGNSS_Sup_Bds_B1C	
103	Bds-DifferentialCorrectionsSupport for B1C	37.355, 6.5.2.9	Rel-16	pc_Bds_DiffCorr_B1C	
104	Gnss-RTK-ObservationsSupport-r15 for GPS L5	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTKE_OBS_Gps_L5	
105	Gnss-RTK-ObservationsSupport-r15 for Galileo E5A	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTKE_OBS_Galileo_E5A	
106	Gnss-RTK-ObservationsSupport-r15 for BDS B1C	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTKE_OBS_Bds_B1C	
107	Gnss-SSR-CodeBiasSupport-r15 for GPS L5	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTKE_SSR_CodeBias_Gps_L5	
108	Gnss-SSR-CodeBiasSupport-r15 for Galileo E5A	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTKE_SSR_CodeBias_Galileo_E5A	
109	Gnss-SSR-CodeBiasSupport-r15 for BDS B1C	37.355, 6.5.2.10	Rel-15	pc_GNSS_RTKE_SSR_CodeBias_Bds_B1C	
110	Gnss-SSR-URA-Support-r16 for GPS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_URA_Gps	
111	Gnss-SSR-URA-Support-r16 for QZSS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_URA_Qzss	
112	Gnss-SSR-URA-Support-r16 for Galileo	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_URA_Galileo	
113	Gnss-SSR-URA-Support-r16 for GLONASS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_URA_Glonass	
114	Gnss-SSR-URA-Support-r16 for BDS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_URA_Bds	
115	Gnss-SSR-PhaseBiasSupport-r16 for GPS L1 C/A	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Gps_L1CA	
116	Gnss-SSR-PhaseBiasSupport-r16 for GPS L5	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Gps_L5	
117	Gnss-SSR-PhaseBiasSupport-r16 for QZSS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Qzss	
118	Gnss-SSR-PhaseBiasSupport-r16 for Galileo E1	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Galileo_E1	
119	Gnss-SSR-PhaseBiasSupport-r16 for Galileo E5A	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Galileo_E5A	
120	Gnss-SSR-PhaseBiasSupport-r16 for GLONASS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Glonass	

121	Gnss-SSR-PhaseBiasSupport-r16 for BDS B1I	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Bds_B1I	
122	Gnss-SSR-PhaseBiasSupport-r16 for BDS B1C	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_PhaseBias_Bds_B1C	
123	Gnss-SSR-STEC-CorrectionSupport-r16 for GPS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_STEC_CorrSupp_Gps	
124	Gnss-SSR-STEC-CorrectionSupport-r16 for QZSS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_STEC_CorrSupp_Qzss	
125	Gnss-SSR-STEC-CorrectionSupport-r16 for Galileo	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_STEC_CorrSupp_Galileo	
126	Gnss-SSR-STEC-CorrectionSupport-r16 for GLONASS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_STEC_CorrSupp_Glonass	
127	Gnss-SSR-STEC-CorrectionSupport-r16 for BDS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_STEC_CorrSupp_Bds	
128	Gnss-SSR-GriddedCorrectionSupport-r16 for GPS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_GridCorrSupp_Gps	
129	Gnss-SSR-GriddedCorrectionSupport-r16 for QZSS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_GridCorrSupp_Qzss	
130	Gnss-SSR-GriddedCorrectionSupport-r16 for Galileo	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_GridCorrSupp_Galileo	
131	Gnss-SSR-GriddedCorrectionSupport-r16 for GLONASS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_GridCorrSupp_Glonass	
132	Gnss-SSR-GriddedCorrectionSupport-r16 for BDS	37.355, 6.5.2.10	Rel-16	pc_GNSS_SSR_GridCorrSupp_Bds	
133	Navic-DifferentialCorrectionsSupport-r16 for	37.355, 6.5.2.10	Rel-16	pc_Navic_DGNSS_Sup	
134	Navic-GridModelSupport-r16	37.355, 6.5.2.10	Rel-16	pc_Navic_GridModelSupp	

Table A.4.3-7A: MBS Assistance Data Support

Item	MBS Assistance Data	Ref.	Release	Mnemonic	Comments
1	Support of mbs-AlmanacAssistance	36.355, 6.5.4	Rel-14	pc_MBS_AlmanacAssist	
2	Support of mbs-AcquisitionAssistance	36.355, 6.5.4	Rel-14	pc_MBS_AcquisitionAssist	

Table A.4.3-7B: WLAN Assistance Data Support

Item	WLAN Assistance Data	Ref.	Release	Mnemonic	Comments
1	Void				
2	Support of wlan-AP-Location	36.355, 6.5.6	Rel-14	pc_WLAN_APLocinfo	

Table A.4.3-8: Location Coordinate Types

Item	Location Coordinate Types	Ref.	Release	Mnemonic	Comments
1	Ellipsoid Point Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint	
2	Ellipsoid Point With Uncertainty Circle Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint UncertCircle	
3	Ellipsoid Point With Uncertainty Ellipse Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint UncertEllip	
4	Polygon Support	36.355, 6.4.1	Rel-9	pc_GNSS_Polygon	
5	Ellipsoid Point With Altitude Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint Alt	
6	Ellipsoid Point With Altitude And Uncertainty Ellipsoid Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipPoint AltUncertEllip	
7	Ellipsoid Arc Support	36.355, 6.4.1	Rel-9	pc_GNSS_EllipArc	
8	High Accuracy Ellipsoid Point With Uncertainty Ellipse-r15	37.355, 6.4.1	Rel-15	pc_GNSS_HA_EllipPointUncertCircle	
9	High Accuracy Ellipsoid Point With Altitude And Uncertainty Ellipsoid-r15	37.355, 6.4.1	Rel-15	pc_GNSS_HA_EllipPointAltUncertEllip	

Table A.4.3-9: Velocity Types

Item	Velocity Types	Ref.	Release	Mnemonic	Comments
1	Horizontal Velocity Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVel	
2	Horizontal With Vertical Velocity Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVVel	
3	Horizontal Velocity With Uncertainty Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVelUncert	
4	Horizontal With Vertical Velocity And Uncertainty Support	36.355, 6.4.1	Rel-9	pc_GNSS_HVVelUncert	

A.4.4 Additional information

Table A.4.4-1: Additional information

Item	Additional information	Ref.	Release	Mnemonic	Comments
1	Support of sending of acknowledgement request in LPP Provide Capabilities message.	36.355, 4.3.3	Rel-9	pc_LPP_SendingACK_ProvideCapabilities	
2	Support of CE mode A	36.306, 4.3.29.1	Rel-13	pc_CEmodeA	Mandatory for Category M1 UE
3	Support of CE mode B	36.306, 4.3.29.2	Rel-13	pc_CEmodeB	
4	Support of "Voice Domain Preference for E-UTRAN"	24.301	Rel-9	pc_VoLTE	VoLTE Capable UE
5	Support of LPP message segmentation	36.355, 4.3.5	Rel-14	pc_LPP_MsgSegmentation	

Table A.4.4-2: Additional UE radio access capabilities (Mandatory for Rel-11 and onward)

Item	Additional capabilities	Ref.	Release	Status (Note 1)	Support Yes/No (Note 2)	Mnemonic	Comments
1	UE supports CRS interference handling	36.306, 4.3.4.15	Rel-11	O.01		pc_CRS_Interference	This is a Rel-11 Mandatory feature
2	UE supports ss-CCH interference handling	36.306, 4.3.4.20	Rel-11	O.01		pc_ssCCH_Interference	This is a Rel-11 Mandatory feature

Note 1: From Rel-11 onwards 3GPP TSG RAN has introduced the following principles (TS 36.306 [13] 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.

Table A.4.4-3: Additional UE radio access capabilities conditions

O.01	IF The feature has been IOT-ed THEN Support shall be indicated ELSE Support shall not be indicated
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Annex B (informative):
Change history

Change history								
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New	
36.571-3								
2010-08	RAN5#48	R5-104317	-	-	Initial version		0.0.0	
2011-02	RAN5#50	R5-110253	-	-	Addition of test case applicability	0.0.0	0.1.0	
2011-08	RAN5#52	R5-113273	-	-	Addition of E-CID and OTDOA performance test case applicability	0.1.0		
		R5-113139	-	-	Addition of UE Network Capability test case			
		R5-113773	-	-	Addition of Notification test cases			
		R5-113148	-	-	Addition of Position Capability Transfer test case		1.0.0	
37.571-3								
2011-11	RAN5#53	R5-115253	-	-	Creation of 37.571-3 based on 36.571-3 v1.0.0, 34.123-2 v9.6.0, 34.171 v9.3.0 and 34.172 va.1.0	-	1.0.0	
-	-	R5-115254	-	-	Corrections to the 37.571-3 baseline text	-	-	
-	-	R5-115255	-	-	Addition of missing test case applicability to the 37.571-3 baseline text	-	-	
-	-	R5-115256	-	-	Applicable Release for UMTS A-GNSS Test Cases in 37.571-3 baseline text	-	2.0.0	
2011-12	RAN#54	-	-	-	Moved to Rel-9 with editorial changes only.	2.0.0	9.0.0	
2012-03	RAN#55	R5-120365	0001	-	Addition of missing test case applicability for test cases 7.3.4.1, 7.3.4.2, 7.3.4.3, and 7.3.4.4	9.0.0	9.1.0	
2012-03	RAN#55	R5-120529	0002	-	Remove redundant mnemonics	9.0.0	9.1.0	
2012-06	RAN#56	-	-	-	Upgraded to v10.0.0 with no change.	9.1.0	10.0.0	
2012-09	RAN#57	R5-123689	0003	-	Correction of sub-test names and PICS names	10.0.0	10.1.0	
2012-09	RAN#57	R5-123689	0003	-	Addition of missing sub test cases name change	10.1.0	10.1.1	
2012-12	RAN#58	R5-125119	0004	-	Add new PICS and post-fix for conditions	10.1.1	10.2.0	
2012-12	RAN#58	R5-124121	0006	-	Applicabilities for new test cases 10.1 - 10.4 for RSTD for Carrier Aggregation	10.1.1	10.2.0	
2013-03	RAN#59	R5-130594	0007	-	Correction of applicability for TC 7.3.2.3	10.2.0	10.3.0	
2013-04	-	-	-	-	fix of history table	10.3.0	10.3.1	
2013-06	RAN#60	R5-131305	0008	-	Correction of applicability for LTE UE Positioning test cases	10.3.1	10.4.0	
2013-06	RAN#60	R5-131328	0009	-	Applicability for new test case 7.5.1 for inter-frequency RSTD measurement indication procedure	10.3.1	10.4.0	
2013-06	RAN#60	R5-131995	0010	-	Applicabilities for new TDD inter-frequency tests 9.2.2 and 9.2.5	10.3.1	10.4.0	
2013-06	RAN#60	R5-131996	0011	-	Addition of the Applicability for FDD-FDD inter-frequency RSTD Test Cases	10.3.1	10.4.0	
2013-06	RAN#60	R5-132011	0012	-	Corrections and clarifications to Applicabilities tables	10.3.1	10.4.0	
2013-09	RAN#61	R5-133633	0013	-	Correction to 7.3.3.1	10.4.0	10.5.0	
2013-12	RAN#62	R5-134203	0014	-	Corrections to Applicabilities C12es and C13es	10.5.0	10.6.0	
2013-12	RAN#62	R5-134204	0015	-	Addition of Applicabilities for 9.2.1 - 9.2.5	10.5.0	10.6.0	
2013-12	RAN#62	R5-134911	0016	-	Change Applicability of test 7.3.5.1	10.5.0	10.6.0	
2013-12	RAN#62	R5-134981	0017	-	Applicabilities for new tests 10.1a, 10.2a, 10.3a and 10.4a	10.5.0	10.6.0	
2014-06	RAN#64	R5-142102	0018	-	Correction to test case title in the Applicability Table 4-1 and Table 4-3	10.6.0	10.7.0	
2014-06	RAN#64	R5-142406	0019	-	Correction of conditions of C26es and C27es.	10.6.0	10.7.0	
2014-09	RAN#65	-	-	-	Upgraded to v11.0.0 with no change	10.7.0	11.0.0	
2014-09	RAN#65	R5-144843	0020	-	Applicability for new 10+5 and 5+5 RSTD related test cases	11.0.0	12.0.0	
2014-12	RAN#66	R5-145263	0021	-	Applicability table update for RRM CA test cases in clause 10 to avoid redundant testing	12.0.0	12.1.0	
2014-12	RAN#66	R5-145388	0022	-	Addition of Beidou	12.0.0	12.1.0	
2014-12	RAN#66	R5-145843	0023	-	Introduction of felCIC applicability statement for UE Rx-TX Time Difference test cases	12.0.0	12.1.0	
2014-12	RAN#66	R5-145894	0024	-	Add BDS testing contents in TS37.571-3	12.0.0	12.1.0	
2015-03	RAN#67	R5-150075	0025	-	Remove incorrect note from CA RSTD accuracy tests	12.1.0	12.2.0	
2015-03	RAN#67	R5-150608	0026	-	Typo in name of parameter pc_BDS_B1I	12.1.0	12.2.0	
2015-03	RAN#67	R5-150838	0027	-	Missing Abbreviations in Specification	12.1.0	12.2.0	
2015-03	RAN#67	R5-150889	0028	-	Missing Fine Time Assistance Conditions	12.1.0	12.2.0	
2015-03	RAN#67	R5-150890	0029	-	Applicability for new 20+10MHz RSTD test cases	12.1.0	12.2.0	
2015-06	RAN#68	R5-151087	0034	-	RSTD accuracy changes for Rel-12	12.2.0	12.3.0	
2015-06	RAN#68	R5-151090	0035	-	Missing applicability of test case executions in Table 4-3 for E-UTRA pc_eTDD tests	12.2.0	12.3.0	

2015-06	RAN#68	R5-151985	0033	1	Change Galileo Release Applicability	12.2.0	12.3.0
2015-06	RAN#68	R5-152034	0031	1	Change Galileo Release Applicability	12.2.0	12.3.0
2015-09	RAN#69	R5-153152	0036	-	Incorrect ICS information in Table 4-7	12.3.0	12.4.0
2015-09	RAN#69	R5-153335	0037	-	Change BDS Applicability for LCR TDD	12.3.0	12.4.0
2015-09	RAN#69	R5-153339	0038	-	Restoration of condition C21es	12.3.0	12.4.0
2015-09	RAN#69	R5-153941	0039	1	Adding applicability statements for ECID eICIC test cases 8.1.3 and 8.1.4	12.3.0	12.4.0
2015-09	RAN#69	-	-	-	update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC	12.3.0	12.4.0
2015-12	RAN#70	R5-155137	0044	-	Updating applicability statements for ECID eICIC test cases 8.1.5 and 8.1.6	12.4.0	12.5.0
2015-12	RAN#70	R5-155876	0042	1	Applicabilities for two new 3 DL CA RSTD Measurement Reporting Delay test cases	12.4.0	12.5.0
2015-12	RAN#70	R5-155945	0047	1	Addition of release RAT column to applicability tables 4-7	12.4.0	12.5.0
2015-12	RAN#70	R5-156010	0045	1	Addition of release RAT column to applicability table 4-3	12.4.0	12.5.0
2015-12	RAN#70	R5-156112	0043	1	Applicabilities for two new 3 DL CA RSTD Measurement Accuracy test cases	12.4.0	12.5.0
2016-03	RAN#71	R5-160044	0048	-	Releases for the new OTDOA tests 10.5 to 10.8 are missing	12.5.0	12.6.0
2016-03	RAN#71	R5-160045	0049	-	Correct TC Title typo errors in Table 4-3	12.5.0	12.6.0
2016-06	RAN#72	R5-163036	0052	1	Editorial correction of Positioning PICS Mnemonic	12.6.0	12.7.0
2016-09	RAN#73	R5-165128	0053	-	Updates to the UE Rx – Tx Time Difference tests for Rel-12 onwards	12.7.0	12.8.0
2016-09	RAN#73	R5-165352	0054	-	Applicability of new A-GPS and A-Galileo RF test conditions missing for UE Based GNSS	12.7.0	12.8.0
2016-09	RAN#73	R5-165353	0055	-	Applicability of new A-GPS and A-Galileo signalling test conditions missing for UE Based GNSS	12.7.0	12.8.0
2016-09	RAN#73	R5-165997	0057	1	Introduction of Indoor Positioning enhancements (MBS) (protocol)	12.8.0	13.0.0
2016-09	RAN#73	R5-166150	0056	1	Introduction of Indoor Positioning enhancements (MBS) (rf)	12.8.0	13.0.0
2016-12	RAN#74	R5-168062	0058	-	Change of applicability of UE Rx-Tx tests for TDD	13.0.0	13.1.0
2016-12	RAN#74	R5-168064	0059	-	Change of applicability of ECID tests for TDD	13.0.0	13.1.0
2016-12	RAN#74	R5-168381	0061	-	Modification to note 1 in table A.4.3-1 to remove ambiguity	13.0.0	13.1.0
2016-12	RAN#74	R5-169104	0060	1	Clarification of applicability of TC 7.3.3.1 and 7.3.3.1A	13.0.0	13.1.0
2016-12	RAN#74	R5-169105	0062	1	Add WLAN signalling sub-test and references for Indoor Positioning	13.0.0	13.1.0
2016-12	RAN#74	R5-169106	0063	1	Add BT signalling sub-test and references for Indoor Positioning	13.0.0	13.1.0
2016-12	RAN#74	R5-169107	0064	1	Add Sensor signalling sub-test and references for Indoor Positioning	13.0.0	13.1.0
2017-03	RAN#75	R5-170669	0065	-	Maintenance of 37.571-3 Table 4-7 for XML conversion	13.1.0	13.2.0
2017-03	RAN#75	R5-170737	0066	-	Remove Bluetooth Abbreviations	13.1.0	13.2.0
2017-03	RAN#75	R5-170738	0067	-	Correct applicability of tests clause reference	13.1.0	13.2.0
2017-03	RAN#75	-	-	-	Administrative release upgrade to match the release of 3GPP TS 37.571-1 which was upgraded at RAN#74 to Rel-14 due to Rel-14 relevant CR(s)	13.2.0	14.0.0

2017-06	RAN#76	R5-172180	0071	-	Add new applicability conditions for GPS, GLONASS and BDS	14.0.0	14.1.0
2017-06	RAN#76	R5-172668	0073	-	Introduction of periodical reporting capability for GNSS	14.0.0	14.1.0
2017-06	RAN#76	R5-172965	0070	1	Merge GNSS sub-tests into one sub-test	14.0.0	14.1.0
2017-06	RAN#76	R5-172968	0075	1	Introduction of Conditions and Applicability for MBS Assistance Data Signalling Sub-tests	14.0.0	14.1.0
2017-06	RAN#76	R5-173365	0074	1	Introduction of Conditions and Applicability for MBS Assistance Data Measurement Test Cases	14.0.0	14.1.0
2017-06	RAN#76	-	-	-	The titles of 7.3.3.1A and B were corrected editorially to (Rel-13 only) and (Rel-14 onwards) in order to align with the actual TC Titles.	14.0.0	14.1.0
2017-09	RAN#77	R5-173865	0078	-	Editorial change to align MBS test case names with 37.571-2	14.1.0	14.2.0
2017-09	RAN#77	R5-173866	0079	-	Editorial change to align MBS test case names with 37.571-1	14.1.0	14.2.0
2017-09	RAN#77	R5-175120	0080	1	Editorial correction to Table 4-3 in 3GPP TS 37.571-3	14.1.0	14.2.0
2017-09	RAN#77	R5-175189	0077	1	Test case applicability for WLAN and BLE	14.1.0	14.2.0
2017-12	RAN#78	R5-177416	0081	1	Applicability changes for OTDOA/ECID 4Rx support and WLAN/BLE	14.2.0	14.3.0
2017-12	RAN#78	-	-	-	Administrative release upgrade to match the release of 3GPP TS 37.571-1 which was upgraded at RAN#78 to Rel-15 due to Rel-15 relevant CR(s)	14.3.0	15.0.0
2018-03	RAN#79	R5-180312	0083	-	Applicability of Cat1bis OTDOA tests	15.0.0	15.1.0
2018-03	RAN#79	R5-180313	0084	-	Applicability of feMTC OTDOA and ECID tests	15.0.0	15.1.0
2018-03	RAN#79	R5-180314	0085	-	Applicability of NB-IOT OTDOA tests	15.0.0	15.1.0
2018-03	RAN#79	R5-180586	0086	-	4Rx support for OTDOA 2CC - Applicability	15.0.0	15.1.0
2018-03	RAN#79	R5-180587	0087	-	4Rx support for OTDOA 3CC - Applicability	15.0.0	15.1.0
2018-03	RAN#79	R5-180878	0089	-	Update Applicability for Rel-14 Sensor Positioning Protocol Tests and Sub-Tests	15.0.0	15.1.0
2018-03	RAN#79	R5-181273	0088	1	Update Applicability for Rel-14 WLAN Positioning Protocol Tests and Sub-Tests	15.0.0	15.1.0
2018-06	RAN#80	R5-182220	0090	-	Applicability for new NB-IOT OTDOA tests	15.1.0	15.2.0
2018-06	RAN#80	R5-182281	0091	-	New ECID Cat1bis tests - Applicability	15.1.0	15.2.0
2018-06	RAN#80	R5-183850	0092	1	Applicability statement for A-GNSS min perf test cases for Cat M1	15.1.0	15.2.0
2018-06	RAN#80	R5-183851	0094	1	Corrections to C03-Xur and C04-Xur applicabilities	15.1.0	15.2.0
2018-09	RAN#81	R5-184038	0096	-	Addition of PICS for support of LPP message segmentation	15.2.0	15.3.0
2018-09	RAN#81	R5-184190	0098	-	Editorial - Updates for GNSS Signal Capabilities	15.2.0	15.3.0
2018-09	RAN#81	R5-185359	0099	-	Correction of the title for OTDOA IOT tests	15.2.0	15.3.0
2018-12	RAN#82	R5-186619	0100	-	Addition of applicabilities for two missing Minimum Performance triple-GNSS test cases	15.3.0	15.4.0
2018-12	RAN#82	R5-186620	0101	-	Correction to applicabilities of Modernized GPS for Minimum Performance test cases	15.3.0	15.4.0
2018-12	RAN#82	R5-186621	0102	-	Addition of Category NB2 information	15.3.0	15.4.0
2018-12	RAN#82	R5-186622	0103	-	Addition of PICs for support of Acquisition Assistance for Galileo E5A and GPS L5 signals	15.3.0	15.4.0
2018-12	RAN#82	R5-186623	0104	-	Addition of NR signalling background information	15.3.0	15.4.0

2018-12	RAN#82	R5-187465	0106	-	Editorial Changes for TS 37.571-3	15.3.0	15.4.0
2018-12	RAN#82	R5-188198	0105	2	Applicability for NR NSA Option 3 protocol tests	15.3.0	15.4.0
2019-03	RAN#83	R5-191126	0107	-	Addition of general NR information for minimum performance	15.4.0	15.5.0
2019-03	RAN#83	R5-192381	0108	1	Addition LPP Rel-15 missing PICS	15.4.0	15.5.0
2019-03	RAN#83	-	-	-	Administrative release upgrade to match the release of TS 37.571-1 which was upgraded at RAN#83 to Rel-16 due to a Rel-16 relevant CR	15.5.0	16.0.0
2019-06	RAN#84	R5-194418	0110	-	Remove duplicated PICS	16.0.0	16.1.0
2019-06	RAN#84	R5-195010	0112	-	Addition of applicabilities for A-GNSS Minimum Performance tests for NR	16.0.0	16.1.0
2019-06	RAN#84	R5-195012	0111	1	NR applicabilities for MBS Minimum Performance tests	16.0.0	16.1.0
2019-09	RAN#85	R5-196862	0121	-	Update NR Signalling Test Case Titles to Align with TS 37.571-2	16.1.0	16.2.0
2019-09	RAN#85	R5-197165	0117	1	Deletion of duplicated conditions for EUTRA tests	16.1.0	16.2.0
2019-09	RAN#85	R5-197171	0118	1	Addition of missing sub-tests for NR tests	16.1.0	16.2.0
2019-09	RAN#85	R5-197172	0119	1	Corrections of LPP release information for NR tests	16.1.0	16.2.0
2019-09	RAN#85	R5-197173	0120	1	Updates to NR test applicabilities for other NR scenarios	16.1.0	16.2.0
2019-12	RAN#86	R5-198968	0122	1	Update to protocol positioning tests - applicability	16.2.0	16.3.0
2020-03	RAN#87	R5-201011	0126	1	Applicabilities for ECID signalling test cases deleted for NR Test Configuration B	16.3.0	16.4.0
2020-03	RAN#87	R5-201014	0124	1	Editorial changes to TS 37.571-X titles to remove references to individual RATs	16.3.0	16.4.0
2020-06	RAN#88	R5-201624	0127	-	Addition of missing ICS for OTDOA Measurements and E-CID Measurements	16.4.0	16.5.0
2020-12	RAN#90	R5-205106	0128	-	Deletion of tests 7.3.3.1, 7.3.3.1A, 9.3.3.1 and 9.3.3.1A	16.5.0	16.6.0
2020-12	RAN#90	R5-205669	0131	-	Addition of PICS for MBS and WLAN Assistance Data Support	16.5.0	16.6.0
2020-12	RAN#90	R5-206425	0130	1	Introduction of BDS B1C Signal test applicabilities in TS 37.571-3	16.5.0	16.6.0
2020-12	RAN#90	R5-206444	0129	1	Updates and additions of PICS for GNSS Assistance Data Support in Table A.4.3-7	16.5.0	16.6.0
2021-03	RAN#91	R5-210261	0132	-	Deletion of PICS for wlan-AP-Identifier	16.6.0	16.7.0
2021-03	RAN#91	R5-211802	0133	1	Addition of applicability for TDD NB-IOT RSTD measurement test cases	16.6.0	16.7.0
2021-06	RAN#92	R5-212243	0135	-	Clarifications to FDD NB-IoT RSTD test case applicabilities	16.7.0	16.8.0
2021-06	RAN#92	R5-213140	0139	-	Add applicability for OTDOA feMTC	16.7.0	16.8.0
2021-06	RAN#92	R5-213640	0137	1	Addition of NR Rel 16 positioning methods test applicability and condition	16.7.0	16.8.0
2021-06	RAN#92	R5-213641	0138	1	Addition of NR Rel 16 positioning method abbreviations and related PICS	16.7.0	16.8.0
2021-06	RAN#92	R5-214037	0136	1	Update Release 15 and onwards references for TS 36.355 to TS 37.355	16.7.0	16.8.0
2021-09	RAN#93	R5-214181	0140	-	Corrections to PICS for OTDOA and ECID	16.8.0	16.9.0
2021-09	RAN#93	R5-215153	0144	-	Update applicability for OTDOA (LTE) test cases for NR	16.8.0	16.9.0
2021-09	RAN#93	R5-216324	0143	1	Correction to the definitions of NR Rel 16 positioning method related PICS	16.8.0	16.9.0

2021-12	RAN#94	R5-216611	0146	-	Correction of the NR DL-PRS Capability PICS definition	16.9.0	16.10.0
2021-12	RAN#94	R5-217676	0149	-	Allow for support of limited GNSS combinations	16.9.0	16.10.0
2021-12	RAN#94	R5-218290	0148	1	Add applicability for OTDOA feMTC	16.9.0	16.10.0
2022-03	RAN#95	R5-221594	0151	1	Addition of test applicabilities for PosSIB broadcasting test case	16.10.0	16.11.0
2022-03	RAN#95	R5-221888	0150	1	Addition of test applicabilities for NR UE Rx-Tx time difference measurement test cases	16.10.0	16.11.0

History

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