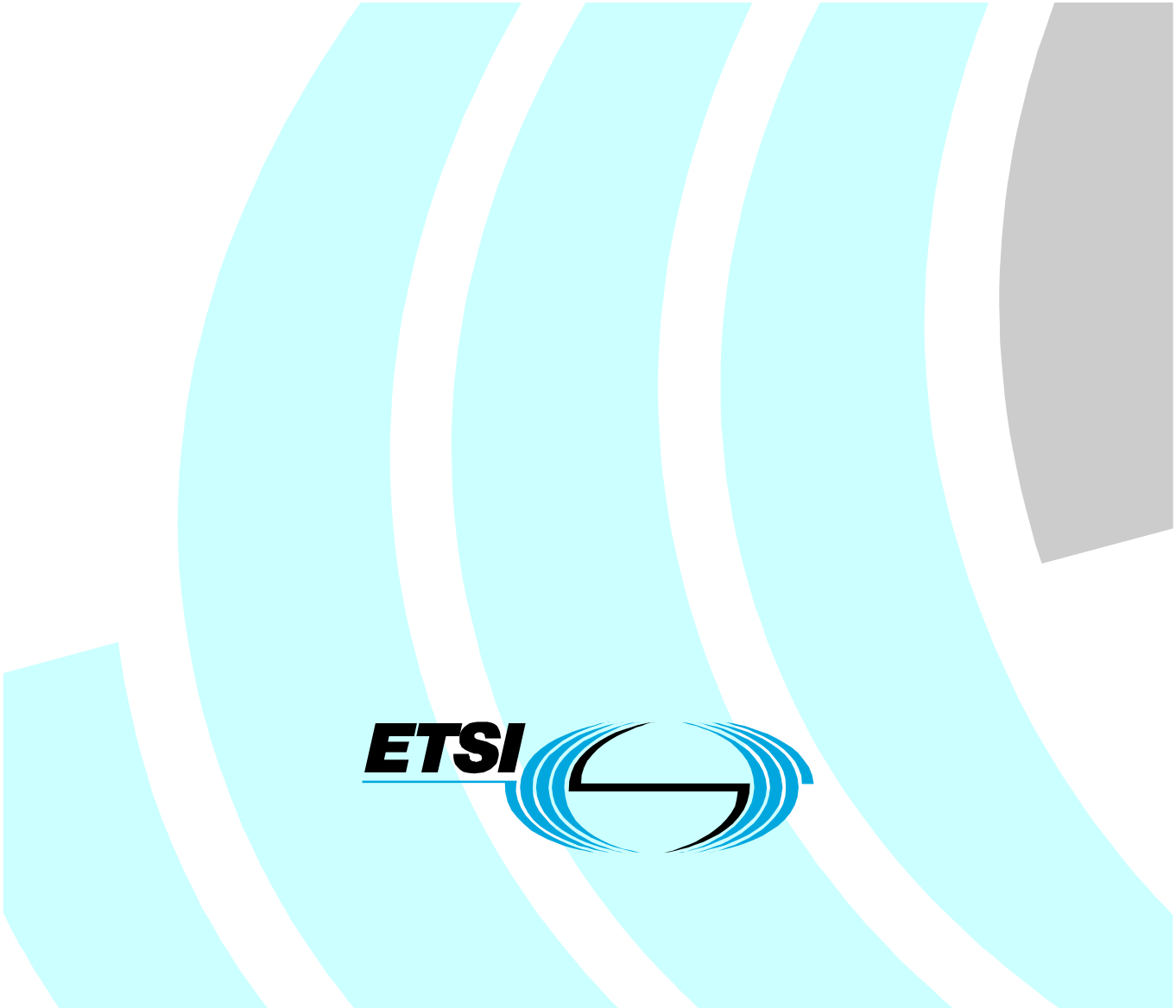
ETSI TR 102 475 V1.1.1 (2006-07)

Technical Report

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission Systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Test Report form for testing to EN 300 328 (V1.6.1) covering essential requirements of article 3.2 of the R&TTE Directive



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Contents

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

Introduction

CEPT has supported Test Report Forms and Application Forms as part of the requirements associated with CEPT recommendation ERC/REC 01-06 [2].

It is expected that Test Report Templates from ETSI would be useful for national conformity assessment bodies and market surveillance authorities in countries where the R&TTE is in force, as well as for the assistance of manufacturers and test houses, although such a Report Template would remain voluntary.

As such, test Report Templates for testing against Harmonized Standards may be used:

- in countries where the R&TTE Directive [1] is in force, for manufacturers' self testing;
- in countries where the R&TTE Directive [1] is in force, for the purpose of third-party testing;
- in countries where the R&TTE Directive [1] is in force, for parameters that Administrations may wish to have tested by a third-party (e.g. in the case of market surveillance/enforcement);
- in countries where the R&TTE Directive [1] is not in force, for the purpose of third-party testing and Type Approval.

1 Scope

The present report provides common text and formatting to be used in a Test Report for testing to EN 300 328 [3].

2 References

For the purposes of this Technical Report (TR) the following references apply:

[1] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity (R&TTE Directive).

[2] CEPT/ERC/REC 01-06: "Procedure for mutual recognition of type testing and type approval for radio equipment".

[3] ETSI EN 300 328 (V1.6.1): "Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purpose of the present document, the terms and definitions given in EN 300 328 [3] apply.

3.2 Symbols

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

dBi	antenna gain in decibels relative to an isotropic antenna
dBm	dB relative to 1 milliwatt
dBW	dB relative to 1 Watt
GHz	GigaHertz
Hz	Hertz
kHz	kiloHertz
MHz	MegaHertz

3.3 Abbreviations

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

AC	Alternating Current
CE	Communauté Européenne (European Community)
DC	Direct Current
DSSS	Direct Sequence Spread Spectrum
EIRP	Equivalent Isotropically Radiated Power
FHSS	Frequency Hopping Spread Spectrum
ISM	Industrial, Scientific and Medical
ITU	International Telecommunications Union
OFDM	Orthogonal Frequency Division Multiplexing
R&TTE	Radio and Telecommunications Terminal Equipment
RF	Radio Frequency
UUT	Unit Under Test

4 Cover page and notes

The title page of the test report should include the following title:

"Test Report to EN 300 328 [3]: Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive".

In addition, the title page should contain the following information:

1) the name of the laboratory performing the test;
2) test report reference number and revision number if applicable;
3) the name of the manufacturer;
4) the name of the applicant (if different from the manufacturer);
5) equipment identification, including brand name, model number, etc.;
6) test Report date.

Additional information to be provided in the report:

7) equipment serial number;
8) test dates;
9) hardware and/or software identification (including version numbers and modification state);
10) authorization signatures;
11) a list of the test equipment, ancillary equipment and supporting equipment used during the tests;
12) deviations from the standard test procedures (e.g. test procedures defined by Notified Bodies).

5 Application form

The information contained in this clause shall be provided by the applicant prior to the testing. It contains product information as required by EN 300 328 [3], clause 5.1 as well as other information which might be required to define which configurations shall be tested, which tests shall be performed as well the test conditions.

This clause should form an integral part of the test report.

5.1 Information as required by EN 300 328

In accordance with EN 300 328 [3], clause 5.1, the following information was provided by the applicant:

a) The type of modulation used:
   - FHSS.
   - DSSS or other forms of wide band modulation (e.g. OFDM).

b) In case of FHSS modulation:
   - Number of hopping channels: ……....
   - Dwell time per channel: ……..…..
   - Maximum time between two instances of use of the same channel: ……..

c) Operating Frequency Range(s):

- Range 1: from …… MHz to …… MHz.
- Range 2: from …… MHz to …… MHz.
- Range 3: from …… MHz to …… MHz.

d) Type of equipment:

- Stand-alone.
- Combined equipment (equipment where the radio part is fully integrated within another type of equipment).
- Plug-in radio device (equipment intended for a variety of host systems).
- Other:.....

e) The extreme operating temperature range that apply to the equipment:

- -20°C to +55°C (outdoor and indoor usage).
- 0°C to +35°C (indoor usage only).
- Other: .....

f) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding EIRP levels.

Type of antenna:

Table 1: Antenna type, integral antenna gain and power level(s)

☐ integral antenna Integral antenna gain: ……. dBi ☐ Temporary RF connector provided ☐ No temporary RF connector provided
☐ antenna connector for connecting dedicated antennas ☐ Single power level with corresponding antenna(s) ☐ Multiple power settings and corresponding antenna(s) Number of different power settings (see note) : ……. Power level 1: ……. dBm Power level 2: ……. dBm Power level 3: ……. dBm
NOTE: Add more rows in case of more power levels available.

The tables 3 to 5 provide, for each of the power levels, the list of intended antenna assembly(ies).

Table 2: Power setting 1: Power level, antenna details and resulting EIRP values

Power Setting 1: ……. dBm conducted power

Number of antenna assembly(ies) intended (for this power level): ……

Assembly # (see note)	Gain (dBi)	EIRP (dBm)	Part number or model name
1			
2			
3			
4			

NOTE: Insert more rows in this table for equipment that can have more than 4 antennas for this power level.

Table 3: Power setting 2: Power level, antenna details and resulting EIRP values

Power Setting 2: ……. dBm conducted power

Number of antenna assembly(ies) intended (for this power level): ……

Assembly # (see note)	Gain (dBi)	EIRP (dBm)	Part number or model name
1			
2			
3			
4			

NOTE: Insert more rows in this table for equipment that can have more than 4 antennas for this power level.

Table 4: Power setting 3: Power level, antenna details and resulting EIRP values

Power Setting 3: ……. dBm conducted power

Number of antenna assembly(ies) intended (for this power level): ……

Assembly # (see note)	Gain (dBi)	EIRP (dBm)	Part number or model name
1			
2			
3			
4			

NOTE: Insert more rows in this table for equipment that can have more than 4 antennas for this power level

NOTE: Add more tables like the ones above if the equipment has more power settings.

g) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices.

Details provided are for the: ☐ stand-alone equipment

☐ combined (or host) equipment

☐ test jig

Supply Voltage ☐ AC mainsstate AC voltage ……..

☐ DC state DC voltage ……..

state DC current ……..

In case of DC, indicate the type of power source:

☐ Internal Power Supply

☐ External Power Supply or AC/DC adapter

☐ Battery ☐ Nickel Cadmium

☐ Alkaline

☐ Nickel-Metal Hydride

☐ Lithium-Ion

☐ Lead acid (Vehicle regulated)

☐ Other .....

h) The test modulation used (see also EN 300 328 [3], clause 5.2).

.....

.....

.....

5.2 Combination for testing (see also EN 300 328, clause 5.4.2)

From all combinations of conducted power settings and intended antenna assembly(ies) specified in clause 4.1, use table 6 to specify the combination resulting in the highest EIRP for the radio equipment.

Unless otherwise specified in EN 300 328 [3], this power setting shall than be used for testing against the requirements of EN 300 328 [3]. In case there is more than one such conducted power setting resulting in the same (highest) EIRP level, the highest conducted power setting shall be used for testing.

Table 5: Combination to be used for testing

Highest overall EIRP value:	…….	dBm	
Corresponding conducted power setting: *(also the power level to be used for testing)*	…….	dBm	Listed as Power Setting #: …….
Corresponding Antenna assembly gain: *(also the antenna gain to be taken into account for calculating EIRP values)*	…….	dBi	Antenna Assembly #: ……

5.3 Additional information provided by the applicant

a) Modulation:

ITU Class of emission: …….

Can the transmitter operate un-modulated? ☐ yes ☐ no

b) Duty Cycle:

The transmitter is intended for : ☐ Continuous duty

☐ Intermittent duty

☐ Continuous operation possible for testing purposes

c) About the UUT:

☐ The equipment submitted are representative production models.

☐ If not, the equipment submitted are pre-production models.

☐ If pre-production equipment are submitted, the final production equipment will be identical in all respects with the equipment tested.

☐ If not, supply full details:

.....

.....

☐ The equipment submitted is CE marked:

☐ The CE marking does include the Class-II identifier (Alert Sign).

☐ The CE marking does include a 4 digit number referring to the Notified Body involved.

5.4 List of ancillary and/or support equipment provided by the applicant

Where possible, the information below should include a description, brand name, model number etc. for each of the equipment provided:

.....

.....

.....

.....

6 List of technical requirements to be tested

The list of technical requirements called for in EN 300 328 [3] is given in tables 7 and 8.

6.1 Transmitter parameters

Table 6: Transmitter parameters

EN clause	Transmitter parameters	EN 300 328 [3] Page number
4.3.1	Equivalent isotropic radiated power	11
4.3.2	Maximum spectral power density	12
4.3.3	Frequency range	12
4.3.4	Transmitter spurious emissions	12

6.2 Receiver parameters

Table 7: Receiver parameters

EN clause	Receiver parameters	EN 300 328 [3] Page number
4.3.5	Receiver spurious emissions	13

7 List of conformance tests and related test frequencies

Table 9 contains the test frequencies to be used for each of the conformance tests described in EN 300 328 [3], clause 5.

Table 8: Conformance tests and related test frequencies and power settings

Test	EN Clause	Frequencies for testing	Power level for testing
Equivalent isotropic radiated power	5.7.2	Lowest, middle and highest frequency	Highest Power level of the combination resulting in the highest EIRP (see clause 5.2)
Maximum spectral power density	5.7.3	Lowest, middle and highest frequency	Highest Power level of the combination resulting in the highest EIRP (see clause 5.2)
Frequency range	5.7.4	Lowest and highest frequency	Highest Power level of the combination resulting in the highest EIRP (see clause 5.2)
Transmitter spurious emissions	5.7.5	Lowest and highest frequency	Highest and lowest overall power level
Receiver spurious emissions	5.7.6	Lowest and highest frequency	n.a.

8 Test results

8.1 Results summary

The tables 10 and 11 summarize the essential requirements defined in EN 300 328 [3] and the corresponding results for the tested UUT.

Full testing according to EN 300 328 [3] may not be required. If partial testing was performed, this shall be indicated in the relevant column (NT) of the tables below.

8.1.1 Transmitter

Table 9: Transmitter results summary

EN clause	Transmitter parameters	P (Pass)	F (Fail)	NT (Not Tested)	Report page number
4.3.1	Equivalent isotropically radiated power				
4.3.2	Maximum spectral power density				
4.3.3	Frequency range				
4.3.4	Transmitter spurious emissions				

8.1.2 Receiver

Table 10: Receiver results summary

EN clause	Receiver parameters	P	F	NT	Report page number
4.3.5	Receiver spurious emissions				

8.2 Test results details

8.2.1 Equivalent isotropically radiated power

Table 11: Equivalent isotropically radiated power - Test results

Test Conditions (see clause EN 300 328 [3], clause 5.3):							
Antenna gain:		dBi	(see EN 300 328 [3], clause 5.7.2.2 step 2)				
Power Setting :		dBm	☐ EIRP ☐ Conducted				
Duty Cycle:		%	**Test results**				
Rel. Humidity:		%	**Measured Power (dBm)** (see note)	**EIRP (dBm)**	**EIRP Limit (dBm)**	**Margin (dBm)**
Lowest Frequency:		**MHz**				
T_{nom}	°C	V_{nom}	Vac				
T_{min}	°C	V_{min}	Vac				
		V_{max}	Vac				
T_{max}	°C	V_{min}	Vac				
		V_{max}	Vac				
Middle Frequency:		**MHz**					
T_{nom}	°C	V_{nom}	Vac				
T_{min}	°C	V_{min}	Vac				
		V_{max}	Vac				
T_{max}	°C	V_{min}	Vac				
		V_{max}	Vac				

Highest Frequency:		**MHz**					
T_{nom}	°C	V_{nom}	Vac				
T_{min}	°C	V_{min}	Vac				
		V_{max}	Vac				
T_{max}	°C	V_{min}	Vac				
		V_{max}	Vac				
Measurement uncertainty:							**dB**
NOTE: For radiated power measurements (EIRP), ignore this column and fill in the data directly into the column for EIRP.							

8.2.2 Maximum spectral power density

Power density measurements are not required for Frequency Hopping Spread Spectrum equipment. See EN 300 328 [3], clause 4.3.2.2.

Table 12: Maximum spectral power density - Test results

Test Conditions (see clause EN 300 328 [3], clause 5.3):						
Antenna gain:	dBi	(see EN 300 328 [3], clause 5.7.3 Step 4)				
Power Setting :	dBm	☐ EIRP ☐ Conducted				
Duty Cycle:	%	**Test results**				
Rel. Humidity:	%	**Measured Frequency (MHz)** (see note 1)	**Measured Power Density (dBm)** (see note 2)	**EIRP Density (dBm/MHz)**	**EIRP Density Limit (dBm/MHz)**	**Margin (dBm)**
Ambient Temp.:	°C					
Lowest Freq.:	**MHz**					
Middle Freq.:	**MHz**					
Highest Freq.:	**MHz**					
Measurement uncertainty:					**dB**	
NOTE 1: See EN 300 328 [3] clause 5.7.3 step 3. NOTE 2: For radiated power density measurements (EIRP), ignore this column and fill in the data directly into the column for EIRP density.						

8.2.3 Transmitter spurious emissions

8.2.3.1 Conducted spurious emissions (see EN 300 328, clause 5.7.5)

NOTE: Depending on the option chosen, performing conducted spurious emissions may not be required. See EN 300 328 [3], clause 5.7.5.

8.2.3.1.1 Lowest frequency setting / Highest power setting

Table 13: Test results for conducted transmitter spurious emissions when operating at the lowest frequency and the highest power setting

Lowest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Highest Power Setting :		dBm	☐ EIRP	☐ Conducted	
Duty Cycle:		%			
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:				**dB**	

8.2.3.1.2 Highest frequency setting / Highest power setting

Table 14: Test results for conducted transmitter spurious emissions when operating at the highest frequency and the highest power setting

Highest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Highest Power Setting :		dBm	☐ EIRP	☐ Conducted	
Duty Cycle:		%			
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:				**dB**	

8.2.3.1.3 Lowest frequency setting / Lowest power setting

Table 15: Test results for conducted transmitter spurious emissions when operating at the lowest frequency and the lowest power setting

Lowest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Lowest Power Setting :		dBm	☐ EIRP	☐ Conducted	
Duty Cycle:		%			
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:				**dB**	

8.2.3.1.4 Highest frequency setting / Lowest power setting

Table 16: Test results for conducted transmitter spurious emissions when operating at the highest frequency and the lowest power setting

Highest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Lowest Power Setting :		dBm	☐ EIRP	☐ Conducted	
Duty Cycle:		%			
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:				**dB**	

8.2.3.2 Radiated transmitter spurious emissions (see EN 300 328, clause 5.7.5)

8.2.3.2.1 Lowest frequency setting / Highest power setting

Table 17: Test results for radiated transmitter spurious emissions when operating at the lowest frequency and the highest power setting

Lowest Frequency:		**MHz**			
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Highest Power Setting :	dBm	☐ EIRP	☐ Conducted		
Duty Cycle:	%				
Rel. Humidity:	%				
Ambient Temp.:	°C	**Test results**			
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:				**dB**	

8.2.3.2.2 Highest frequency setting / Highest power setting

Table 18: Test results for radiated transmitter spurious emissions when operating at the highest frequency and the highest power setting

Highest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Highest Power Setting :		dBm	☐ EIRP	☐ Conducted	
Duty Cycle:		%			
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:					**dB**

8.2.3.2.3 Lowest frequency setting / Lowest power setting

Table 19: Test results for radiated transmitter spurious emissions when operating at the lowest frequency and the lowest power setting

Lowest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Highest Power Setting :		dBm	☐ EIRP	☐ Conducted	
Duty Cycle:		%			
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:				**dB**	

8.2.3.2.4 Highest frequency setting / Lowest power setting

Table 20: Test results for radiated transmitter spurious emissions when operating at the highest frequency and the lowest power setting

Highest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Highest Power Setting :		dBm	☐ EIRP	☐ Conducted	
Duty Cycle:		%			
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-36	
1 000	1 800	1 000		-30	
1 800	1 900	1 000		-47	
1 900	5 150	1 000		-30	
5 150	5 300	1 000		-47	
5 300	12 750	1 000		-30	
Measurement uncertainty:					**dB**

8.2.4 Receiver spurious emissions

8.2.4.1 Conducted receiver spurious emissions (see EN 300 328, clause 5.7.6.)

NOTE: Depending of the option chosen, performing conducting spurious emissions may not be required. See EN 300 328 [3], clause 5.7.6.

8.2.4.1.1 Lowest frequency setting

Table 21: Test results for conducted receiver spurious emissions when operating at the lowest frequency

Lowest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-57	
1 000	12 750	1 000		-47	
Measurement uncertainty:				**dB**	

8.2.4.1.2 Highest frequency setting

Table 22: Test results for conducted receiver spurious emissions when operating at the highest frequency

Highest Frequency:			**MHz**		
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Rel. Humidity:		%			
Ambient Temp.:		°C	**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-57	
1 000	12 750	1 000		-47	
Measurement uncertainty:				**dB**	

8.2.4.2 Radiated receiver spurious emissions (see EN 300 328, clause 5.7.6)

8.2.4.2.1 Lowest frequency setting

Table 23: Test results for conducted receiver spurious emissions when operating at the lowest frequency

Lowest Frequency:		**MHz**			
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Rel. Humidity:	%				
Ambient Temp.:	°C		**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-57	
1 000	12 750	1 000		-47	
Measurement uncertainty:				**dB**	

8.2.4.2.2 Highest frequency setting

Table 24: Test results for conducted receiver spurious emissions when operating at the highest frequency

Highest Frequency:		**MHz**			
Test Conditions (see clause EN 300 328 [3], clause 5.3):					
Rel. Humidity:	%				
Ambient Temp.:	°C		**Test results**		
Start Frequency (MHz)	**Stop Frequency (MHz)**	**Res. Bandwidth (kHz)**	**Maximum Emission Observed (dBm)**	**Limit (dBm)**	**Margin (dBm)**
30	1 000	100		-57	
1 000	12 750	1 000		-47	
Measurement uncertainty:				**dB**	

9 Test set-ups

Where required by EN 300 328 [3], a description of the different test set-ups shall be included in this clause.

10 Screen plots / Screen captures

Analyser screen plots for spurious emissions testing may be included in this clause although it is not mandatory.

11 Photographs of the equipment (UUT)

Photographs of the equipment may be included in this clause. There is no need to include photograps of the different test set-ups.

12 Test equipment

The test and measuring equipment which was used during the testing shall be listed in this clause.

History

Document history		
V1.1.1	July 2006	Publication