

RADIO TEST REPORT

No. 1805427STO-001, Ed. 1

RF Performance

EQUIPMENT UNDER TEST

Equipment: Keyboard
Type/Model: Mousetrapper Prime
Additional type/model*: Mousetrapper Advance 2.0
Manufacturer: Trapper Data AB
Tested by request of: Trapper Data AB

SUMMARY

Referring to the emission limits, and the operating mode during the tests specified in this report, the equipment complies with the requirements according to the following standards:

47 CFR Part 15: Subpart C: Intentional radiators. Section 15.247

RSS-GEN Issue 4 (2014): General requirements of compliance of radio apparatus (2014)

RSS-247 Issue 2 (2017): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

For details, see clause 2 – 4.

Date of issue: 2018-04-03

Tested by:


Matti Virkki

Approved by:


Stefan Andersson

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Revision History

Edition	Date	Description	Changes
1	2018-04-03	First release	

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1 CLIENT INFORMATION

The EUT has been tested by request of

Company Trapper Data AB
 Spjutvägen 6
 175 61 Järfälla
 Sweden

Name of contact David Larsson
 Phone +46 83880336

2 EQUIPMENT UNDER TEST (EUT)

2.1 Identification of the EUT

Equipment: Keyboard

Type/Model: Mousetrapper Prime

Brand name: Mousetrapper

Serial number: No visible serial number on test samples

Transmitter frequency range: 2402 – 2478 MHz

Receiver frequency range: 2402 – 2478 MHz

Frequency agile or hopping: ☐ Yes ☒ No

Antenna: ☒ Internal antenna ☐ External antenna

Antenna connector: ☒ None, internal antenna ☐ Yes,

Antenna gain: 0 dBi

Rating RF output power: -10 dBm

Transmitter stand by mode supported: ☒ Yes ☐ No

2.2 Test signals and operation modes

Continuous signal on 2402, 2440 and 2478 MHz
 Normal operation mode to determine EUT duty cycle.

3 TEST SPECIFICATIONS

3.1 Standards

Requirements:

47 CFR Part 15 (2015): Subpart C: Intentional radiators. Section 15.247

RSS-GEN Issue 4 (2014): General requirements of compliance of radio apparatus (2014).

RSS-247 Issue 2 (2017): Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices

Test methods:

ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Additions, deviations and exclusions from standards and accreditation

RSS-247 Issue 2 (2017) is not within Intertek's scope of accreditation.

No other additions, deviations or exclusions have been made from standards and accreditation.

3.3 Test site

Measurements were performed at:

Intertek Semko AB.
Torshamnsgatan 43,
P.O. Box 1103
SE-164 22 Kista

Intertek Semko AB is a FCC listed test site with site registration number 90913
Intertek Semko AB is a FCC accredited conformity assessment body with designation number SE0002
Intertek Semko AB is an Industry Canada listed test facility with IC assigned code 2042G

Measurement chambers

Measurement Chamber	Type of chamber	IC Site filing #
BJÖRKHALLEN	Semi-anechoic 3 m	2042G-1
Radiohallen	Fully anechoic 3m	2042G-4

4 TEST SUMMARY

The results in this report apply only to sample tested:

Requirement	Description	Result
FCC §15.203 RSS-GEN 8.3	Antenna requirement	PASS
	The EUT has integrated non detachable antenna which can't be remove without breaking the EUT.	
FCC §15.207, 15.107 RSS-GEN 8.8 table 3	Conducted continuous emission in the frequency range 150 kHz to 30 MHz, AC Power input port	NA
	Battery operated equipment.	
FCC §15.247 (d), 15.209(a) RSS-GEN 8.9 RSS-247 5.5	Radiated emission of electromagnetic fields in the frequency range 30 – 1000 MHz	PASS
	The EUT complies with the limits.	
FCC §15.247(d), 15.209(a) RSS-GEN 8.9 RSS-247 5.5	Radiated emission of electromagnetic fields in the frequency range above 1 GHz	PASS
	The EUT complies with the limits.	
FCC §15.247(a)(2) RSS-GEN 6.6 RSS-247 5.2(1)	Occupied bandwidth	PASS
	The EUT complies with the limits.	
FCC §15.247(b) RSS-247 5.4(4)	Conducted output power	PASS
	The EUT complies with the limits.	
FCC §15.247(e) RSS-247 5.2(2)	Peak power spectral density	PASS
	The EUT complies with the limits.	
FCC §15.247(e) RSS-247 5.5	Band edge	PASS
	The EUT complies with the limits.	

5 RADIATED RF EMISSION IN THE FREQUENCY-RANGE 30 MHZ TO 26 GHZ

Date of test:	March 15 – 16, 2018	Test location:	Björk hallen / Radio hallen
EUT Serial:	No visible serial on EUT	Ambient temp:	22 °C
Tested by:	MTV	Relative humidity:	17 %
Test result:	Pass	Margin:	1.0 dB

5.1 Test set-up and test procedure.

The test method is in accordance with ANSI C63.10-2013.

The EUT was set up in order to emit maximum disturbances.

The EUT was placed on an insulating support 0.8 and 1.5 m above the turntable which is part of the reference ground plane.

Overview sweeps were performed with the measurement receiver in max-hold mode and the peak detector activated in the frequency-range 30 – 1000 MHz. Above 1 GHz additionally the average detector was activated.

5.2 Test conditions

Test set-up:

30 MHz to 1000 MHz

Test receiver set-up:

Preview test:

Peak, RBW 120 kHz VBW 1 MHz

Final test:

Quasi-Peak, RBW 120 kHz VBW 1 MHz

EUT height above ground plane:

0.8 m

Measuring distance:

3 m

Measuring angle:

0 – 359°

Antenna

Height above ground plane:

1 – 4 m

Polarisation:

Vertical and Horizontal

Type:

Bilog

Test set-up:

1 GHz – 26.5 GHz

Test receiver set-up:

Preview test:

Peak, RBW 1 MHz VBW 3 MHz

Average, RBW 1 MHz VBW 3 MHz

Final test:

Peak, RBW 1 MHz VBW 3 MHz

Average Peak value + 20 x LOG (Duty cycle)

EUT height above ground plane:

1.5 m

Measuring distance:

3 m

Measuring angle:

0 – 359°

Antenna

Height above ground plane:

1.5 m

Polarisation:

Vertical and Horizontal

Type:

Horn

Antenna tilt:

The EUT is placed on a positioner who rotates the EUT around its axis to maximize the emissions. The EUT is in test antenna's bore sight throughout the test.

5.3 Requirements

Within restricted bands

Reference: CFR 47 §15.209, RSS-Gen section 8.9

Field strength of emissions must comply with limits shown in table below

Frequency range [MHz]	Field strength at 3 m (dBμV/m)	Field strength at 10 m (dBμV/m)	Detector (dBμV/m)
30 – 88	40.0	29.5	Quasi Peak
88 – 216	43.5	33.0	Quasi Peak
216 – 960	46.0	35.5	Quasi Peak
960 – 1000	54.0	43.5	Quasi Peak
Above 1000	54.0 / 74.0	43.5 / 63.5	Average / Peak

The values for 10 m measuring distance are calculated by subtracting 10.5 dB from the 3 m limit. (i.e. an extrapolation factor of 20 dB/decade according to CFR 47 §15.31(f)(1))

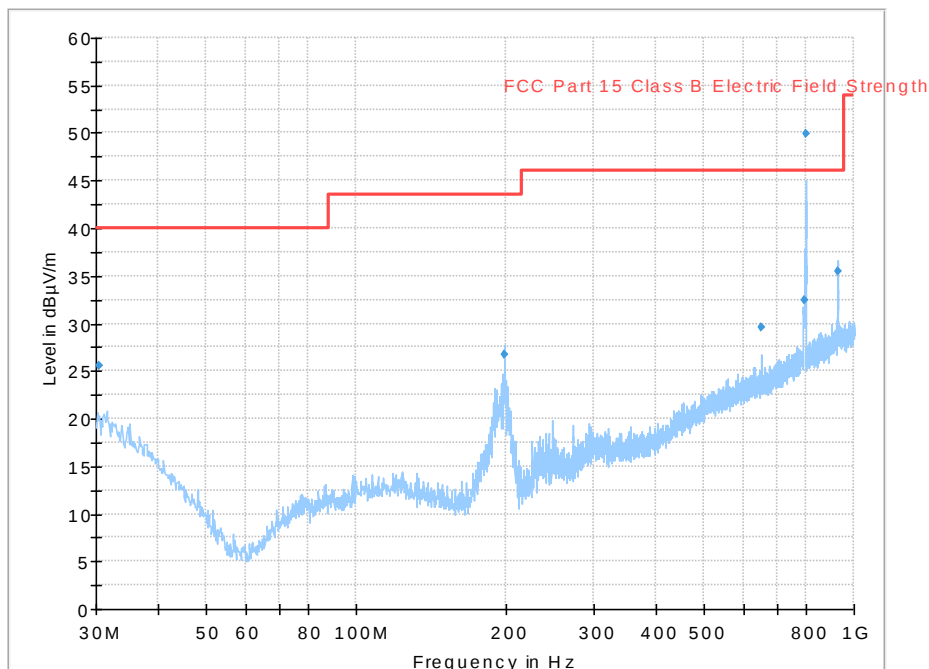
Outside the restricted bands:

Reference: CFR 47 §15.247(d), RSS-247 5.5,

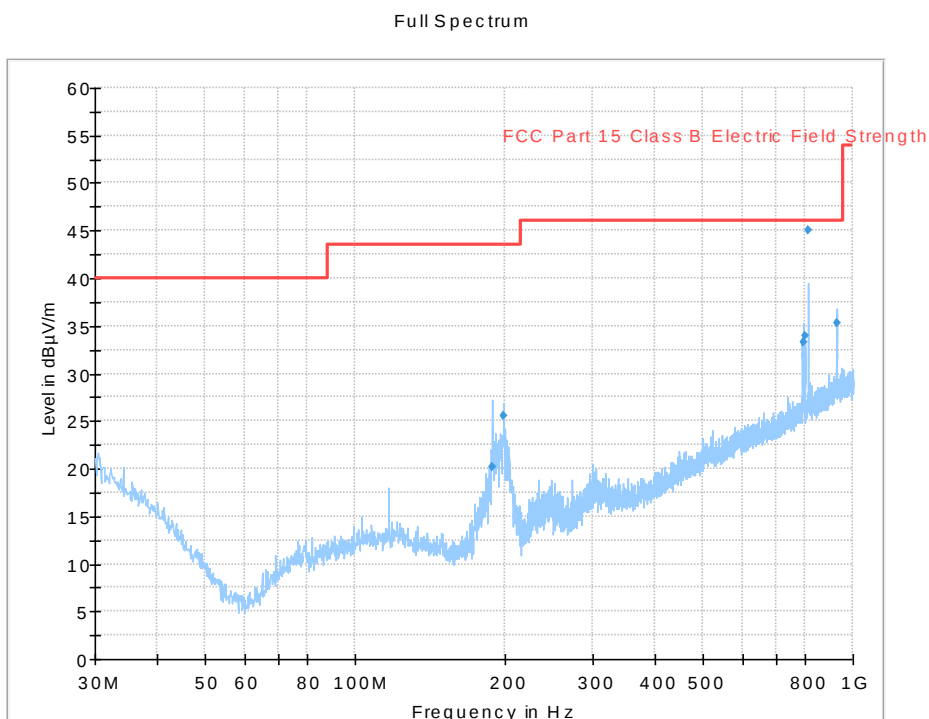
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

5.4 Test results 30 MHz – 1000 MHz, TX

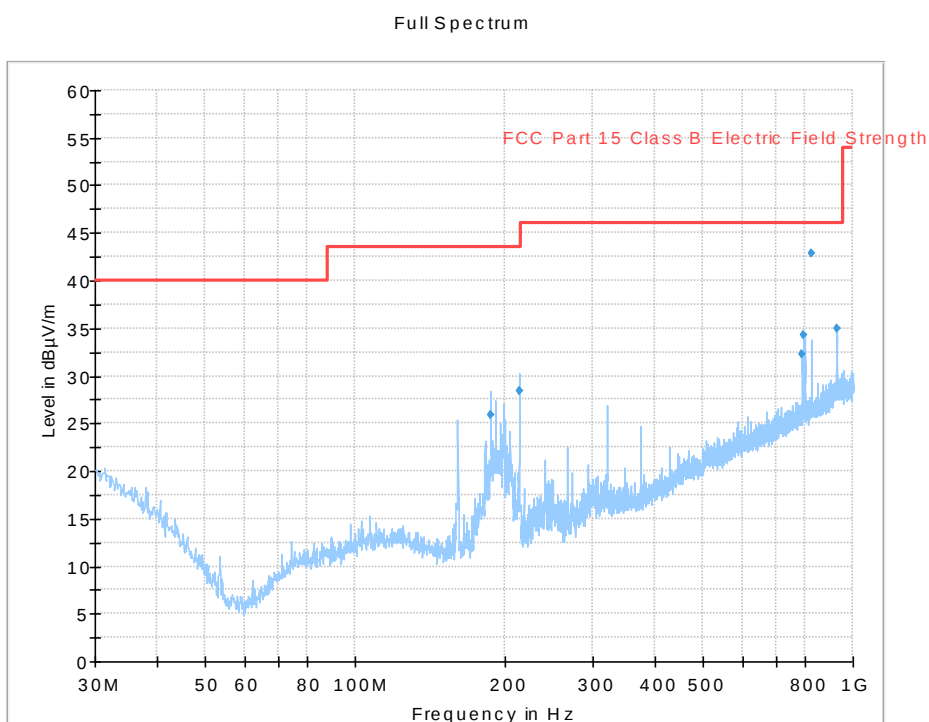
Full Spectrum



Diagram, Peak overview sweep, 30 – 1000 MHz at 3 m distance. TX low channel,



Diagram, Peak overview sweep, 30 – 1000 MHz at 3 m distance. TX middle channel,



Diagram, Peak overview sweep, 30 – 1000 MHz at 3 m distance. TX high channel,

Measurement results, Quasi Peak

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
30.423	25.6	40.0	V	14.4
198.456	26.7	43.5	H	16.8
651.001	29.6	46.0	H	16.4
794.307	32.4	46.0	H	13.6
800.360	50.0	68.4	H	18.4*
926.373	35.4	46.0	H	10.6

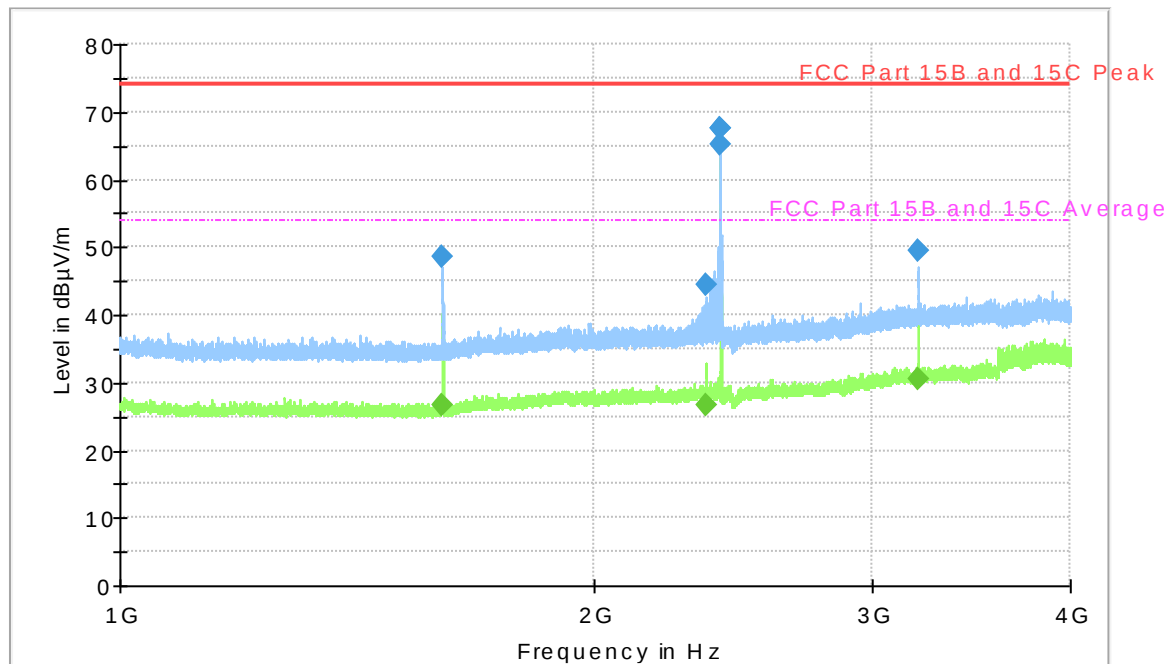
Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
188.517	20.1	43.5	H	23.4
198.516	25.6	43.5	H	17.9
793.626	33.3	46.0	H	12.7
799.160	34.0	46.0	V	12.0
813.026	45.0	68.4	H	23.4*
926.112	35.4	46.0	H	10.6

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
186.754349	25.8	43.5	H	17.7
213.567655	28.4	43.5	H	15.1
791.723567	32.3	46.0	H	13.8
797.796794	34.2	46.0	V	11.8
825.692104	42.9	68.4	H	25.5*
926.751703	34.9	46.0	V	11.12

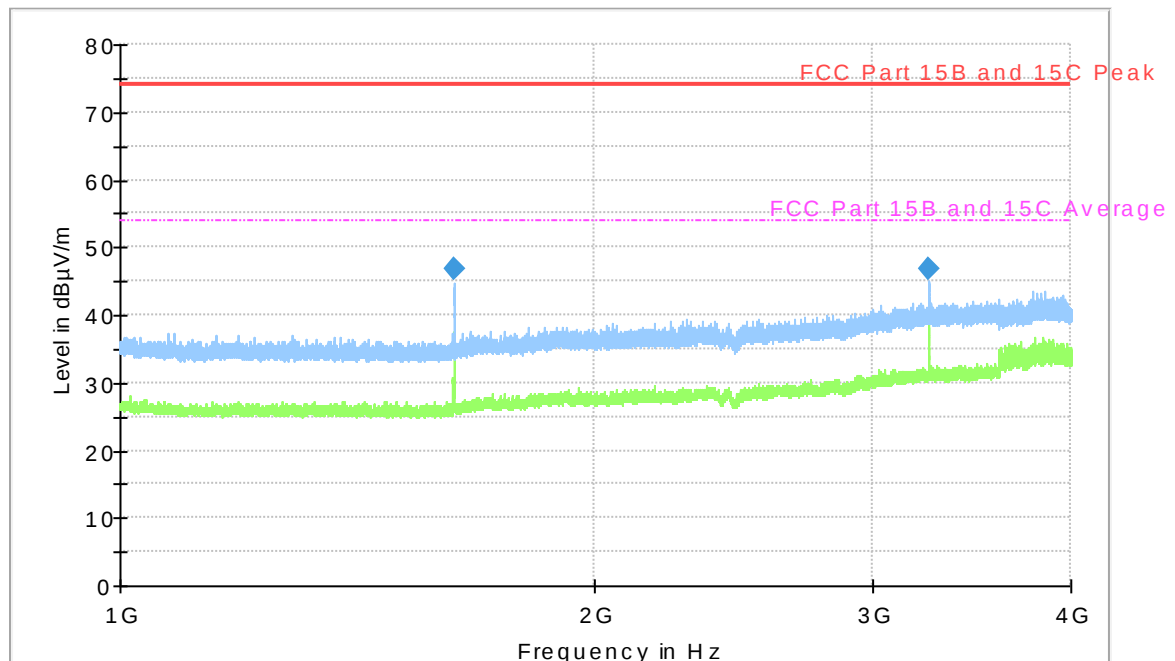
Result [dBμV/m] = Analyser reading [dBμV] + Antenna factor [1/m] - Amplifier gain [dB] + Cable loss [dB]

*Emission originates from transmitter circuitry. Frequency is not on a restricted band and is attenuated more than 20 dB from transmitter level

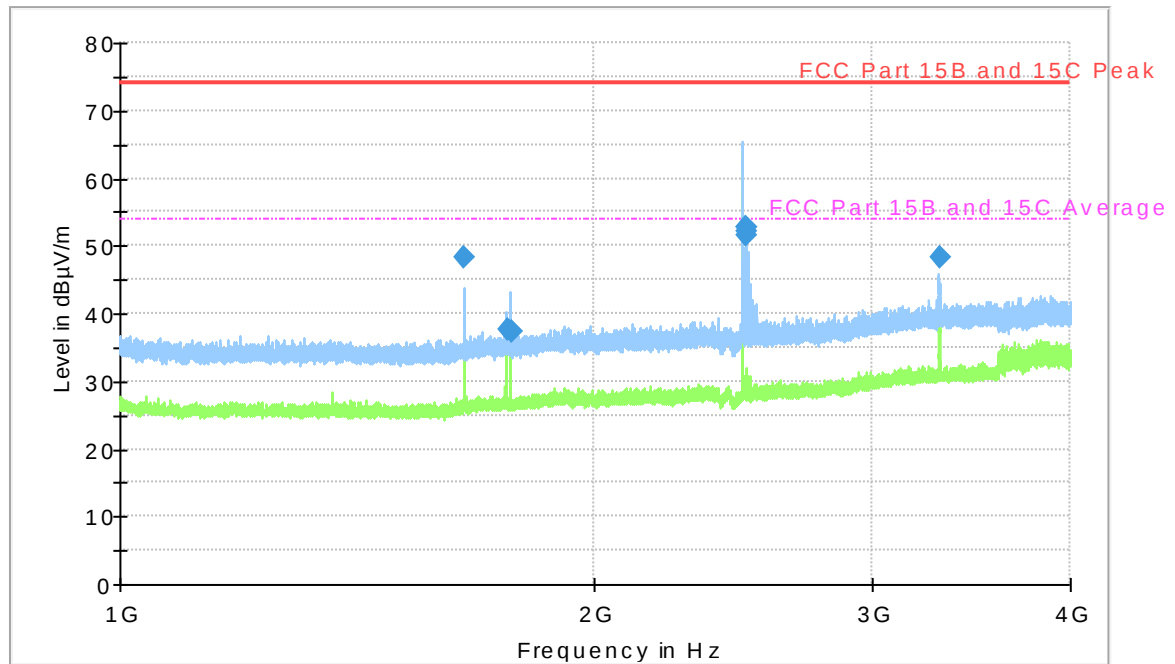
5.5 Test results 1 GHz – 26.5 GHz, TX



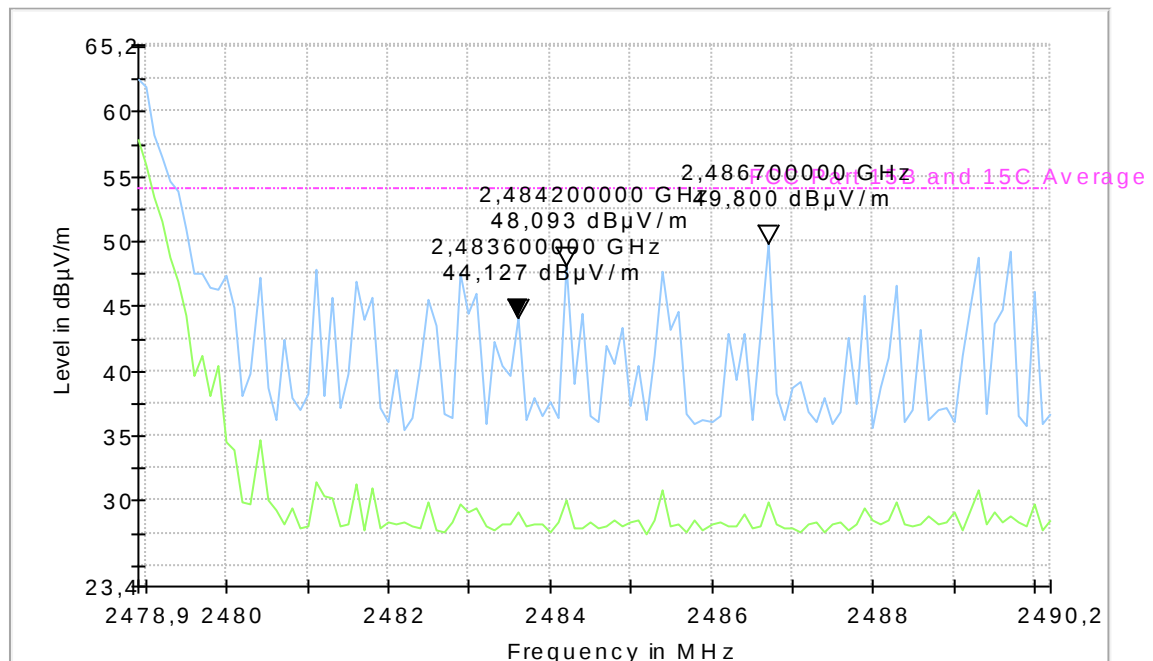
Diagram, Peak overview sweep, 1– 4 GHz at 3 m distance. TX low channel, Carrier is attenuated by band rejection filter K&L 6N45-2450/T 100-0/0.



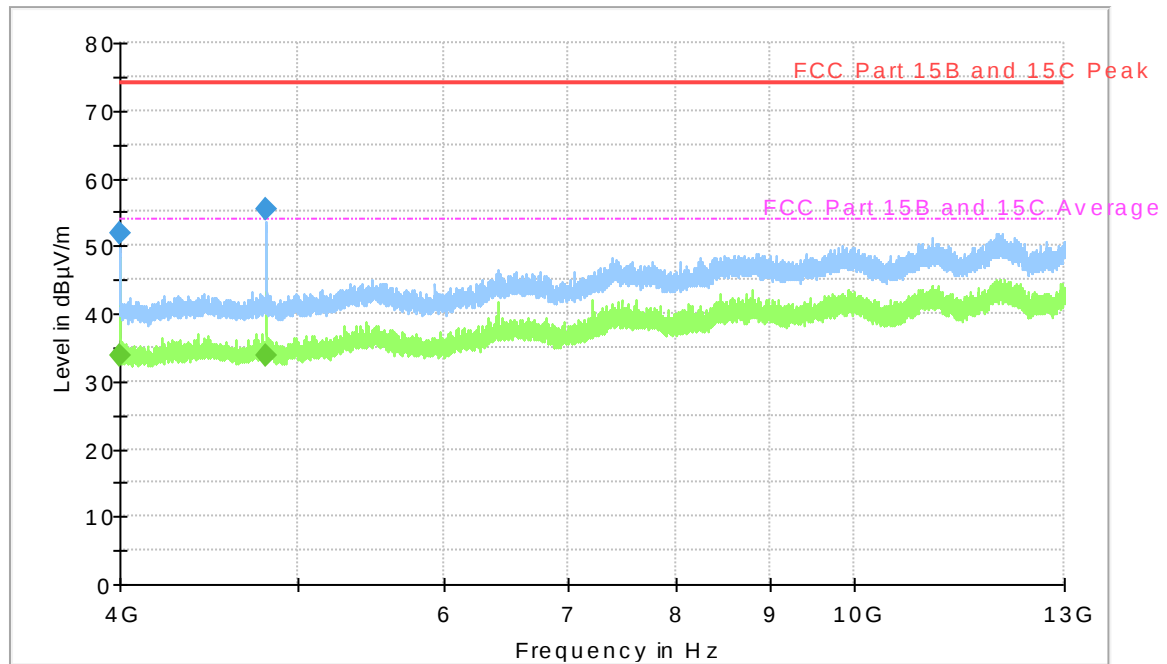
Diagram, Peak overview sweep, 1– 4 GHz at 3 m distance. TX middle channel, Carrier is attenuated by band rejection filter K&L 6N45-2450/T 100-0/0.



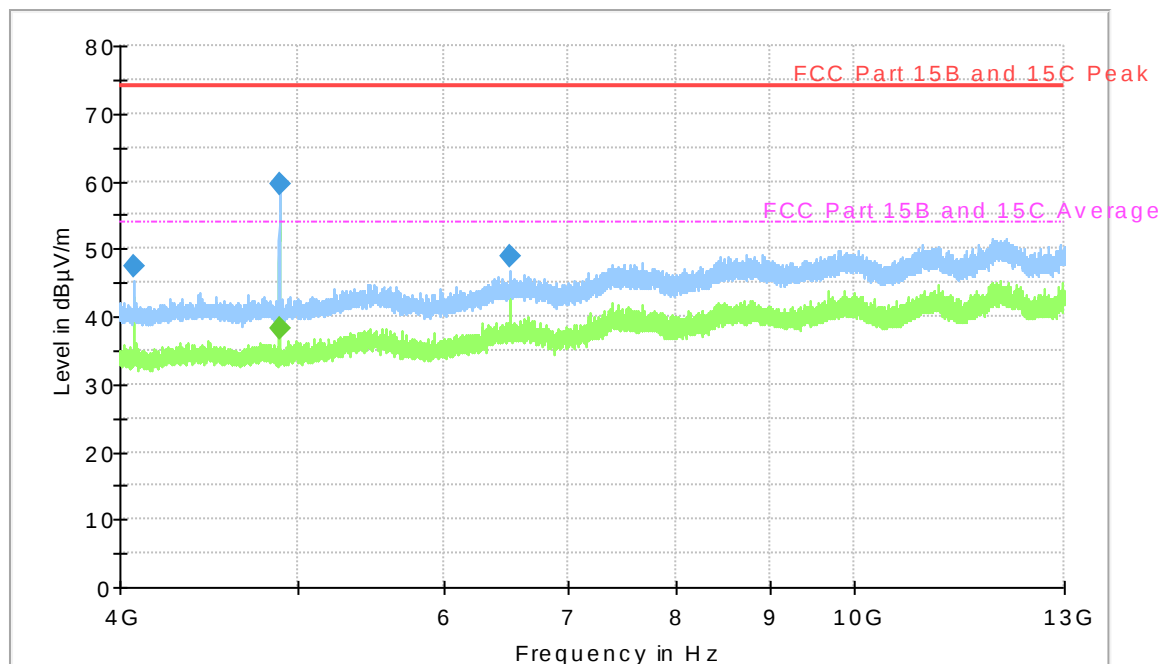
Diagram, Peak overview sweep, 1– 4 GHz at 3 m distance. TX high channel, Carrier is attenuated by band rejection filter K&L 6N45-2450/T 100-0/0.



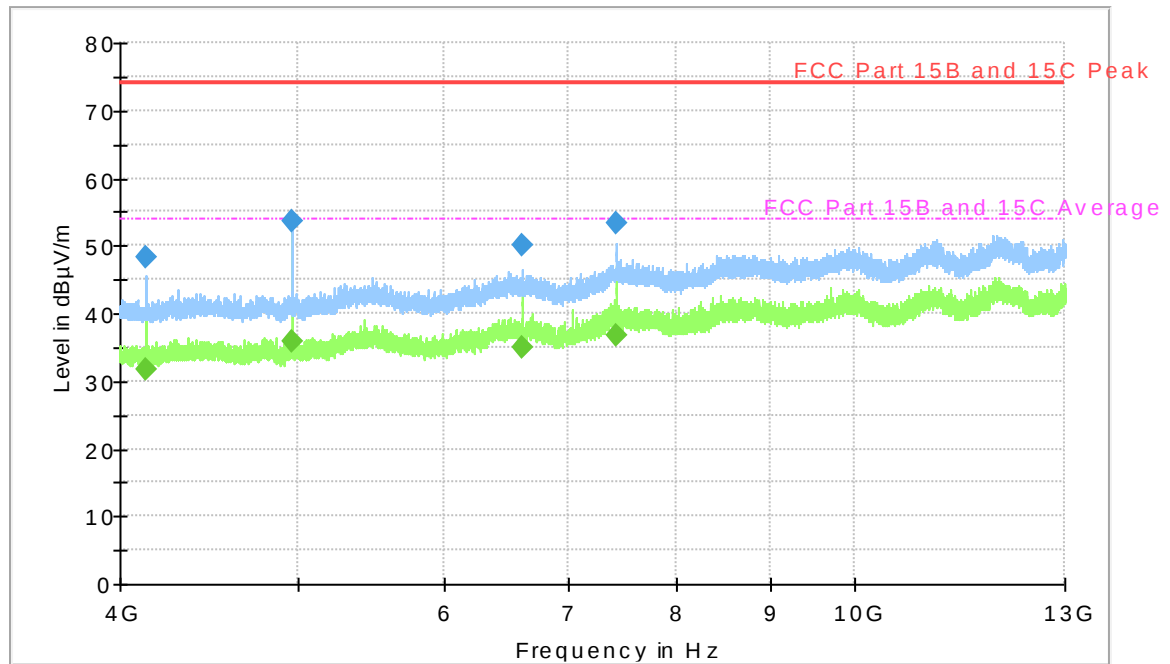
Diagram, Peak overview sweep, 2479 - 2490 MHz at 3 m distance. TX high channel, Carrier is attenuated by band rejection filter K&L 6N45-2450/T 100-0/0.



Diagram, Peak overview sweep, 4– 13 GHz at 3 m distance. TX low channel, Emissions below 4000 MHz are attenuated by high-pass filter K&L 4410-X4500/18000-0.

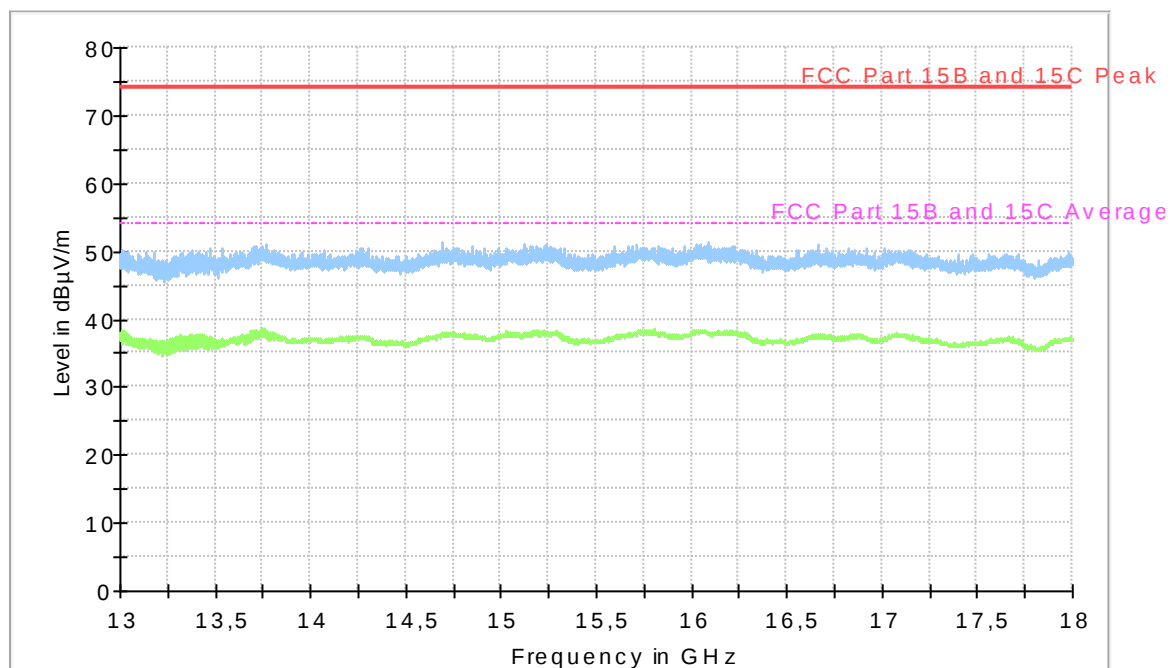


Diagram, Peak overview sweep, 4– 13 GHz at 3 m distance. TX middle channel, Emissions below 4000 MHz are attenuated by high-pass filter K&L 4410-X4500/18000-0.



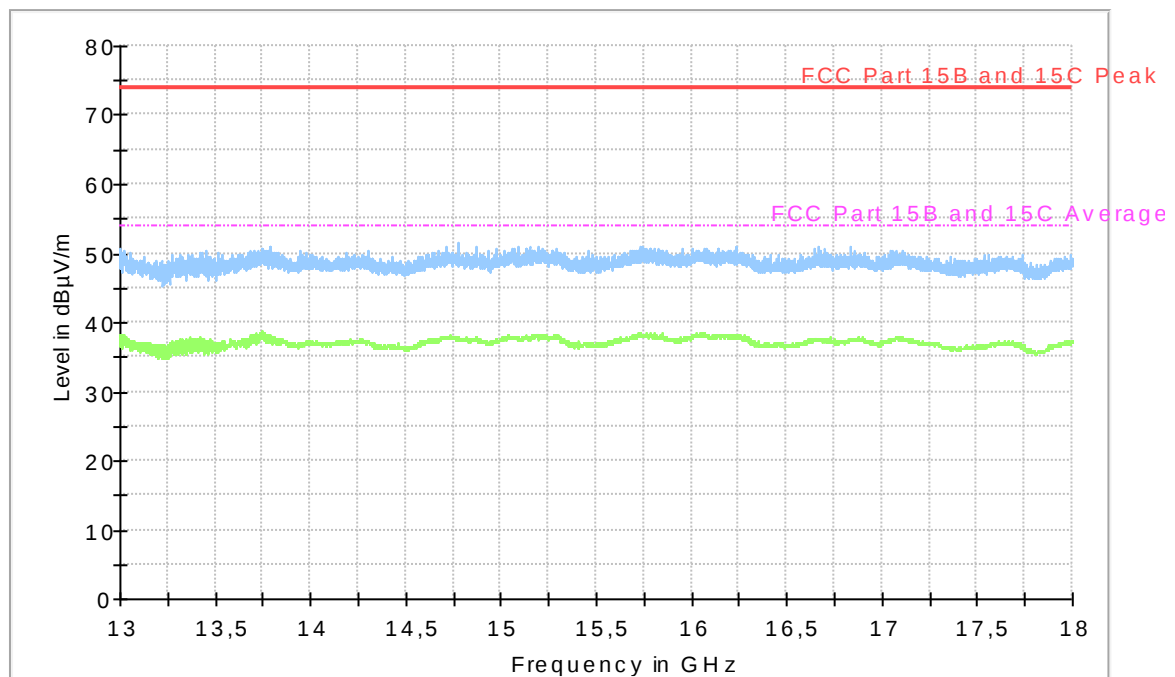
Diagram, Peak overview sweep, 4– 13 GHz at 3 m distance. TX high channel, Emissions below 4000 MHz are attenuated by high-pass filter K&L 4410-X4500/18000-0.

Full Spectrum



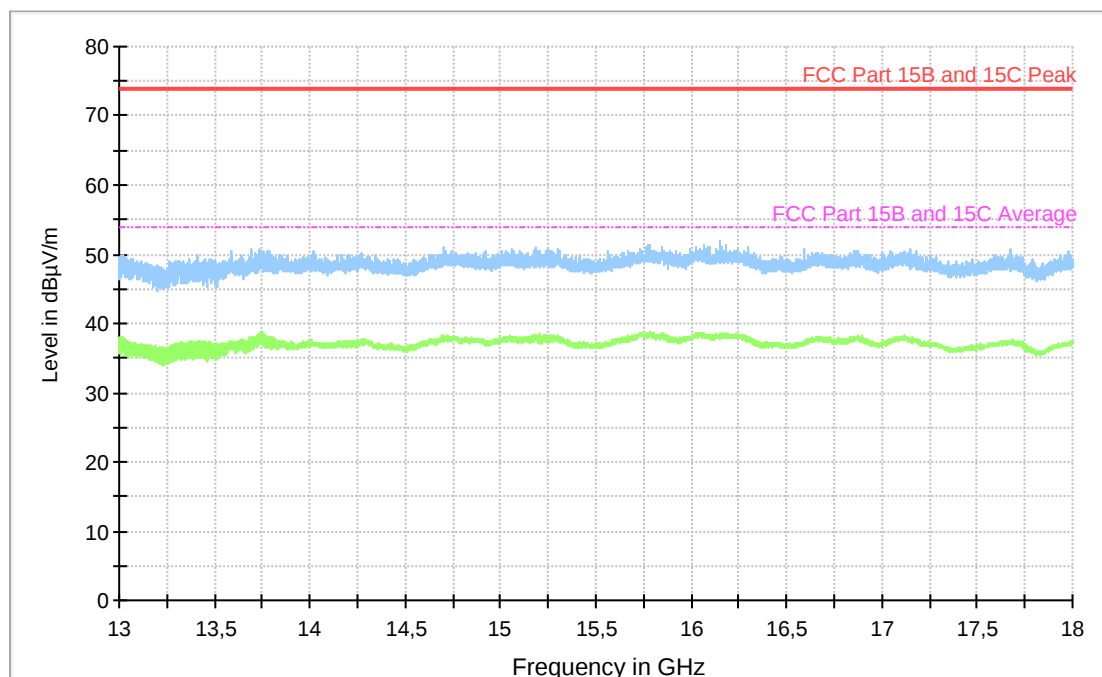
Diagram, Peak overview sweep, 13 – 18 GHz at 3 m distance. TX low channel,

Full Spectrum



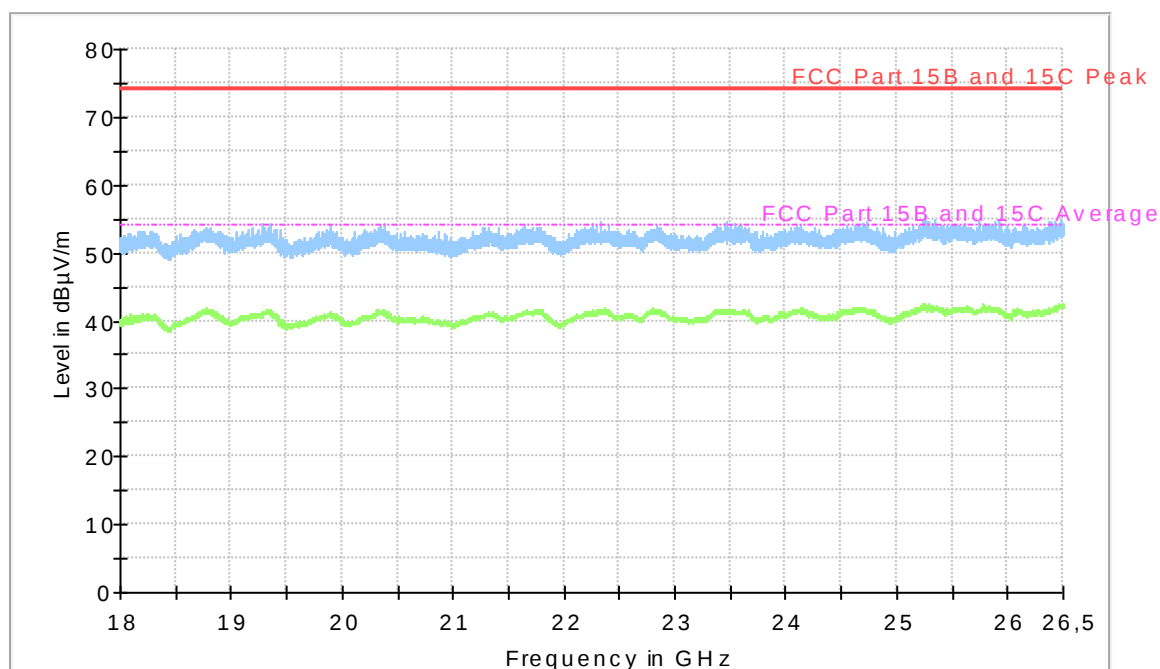
Diagram, Peak overview sweep, 13 – 18 GHz at 3 m distance. TX middle channel,

Full Spectrum



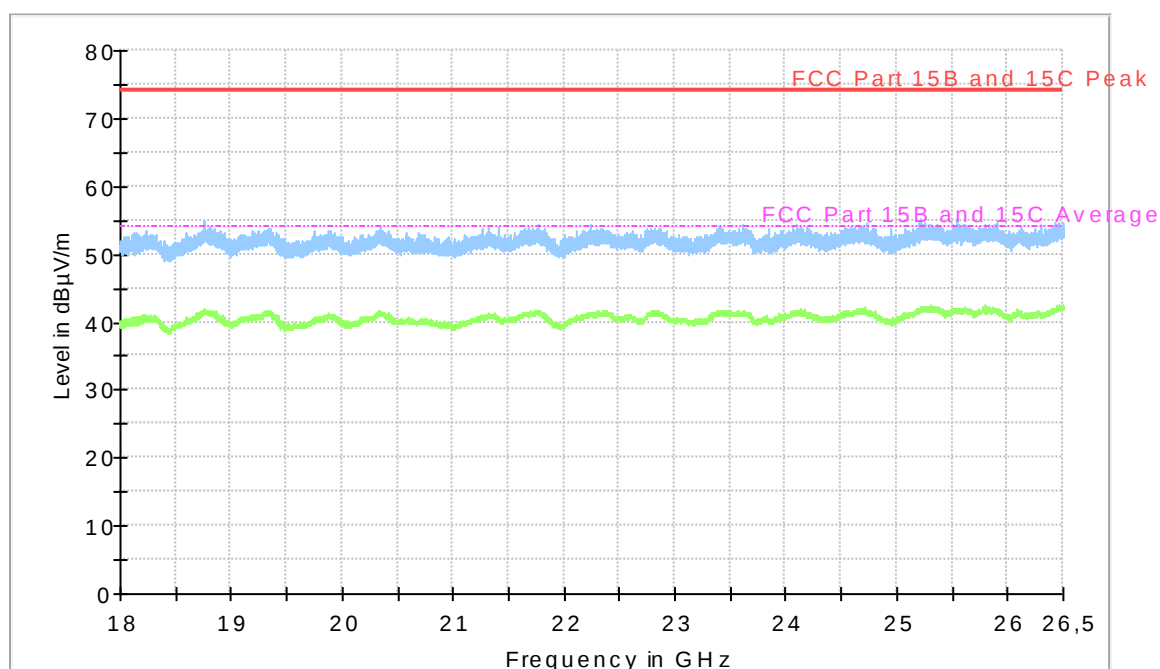
Diagram, Peak overview sweep, 13 – 18 GHz at 3 m distance. TX high channel,

Full Spectrum



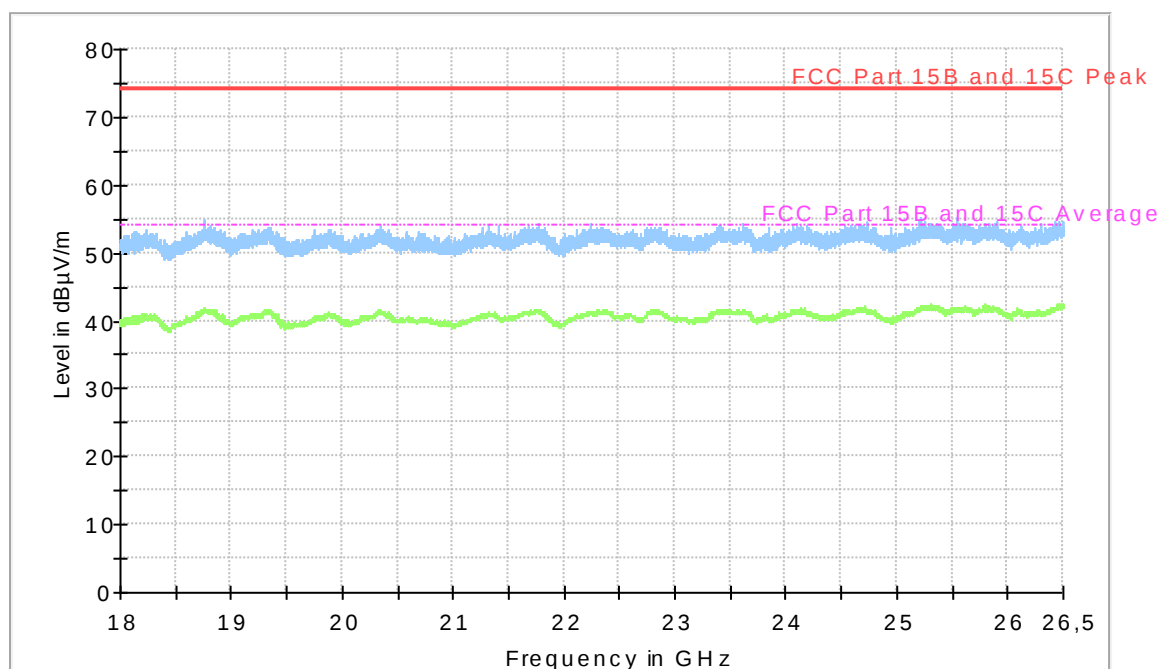
Diagram, Peak overview sweep, 18 – 26,5 GHz at 3 m distance. TX low channel,

Full Spectrum



Diagram, Peak overview sweep, 18 – 26,5 GHz at 3 m distance. TX middle channel,

Full Spectrum



Diagram, Peak overview sweep, 18 – 26,5 GHz at 3 m distance. TX high channel,

Measurement results, Peak, TX low channel

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
2402.0	88.4		H	
1601.5	48.7	74.0	H	25.3
2353.8	44.5	74.0	H	29.5
3202.7	49.3	74.0	H	24.7
4006.2	51.9	74.0	H	22.1
48048	55.3	74.0	V	18.7

Measurement results, Average, TX low channel

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
48048	39.8	54.0	V	14.2

Measurement results, Peak, TX middle channel

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
2440	89.8		H	14.5
1626.7	46.9	74.0	H	27.1
3253.1	46.9	74.0	H	27.1
4066.6	47.4	74.0	V	26.6
4879.3	59.6	74.0	V	14.4
6506.8	48.9	74.0	H	25.1

Measurement results, Average, TX middle channel

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
4879.3	44.1	54.0	V	9.9

Measurement results, Peak, TX high channel

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
2478.0	80.7		H	
1651.8	48.3	74.0	H	25.7
1760.5	37.6	74.0	H	36.4
2483.6	44.1	74.0	V	29.9
2484.2	48.1	74.0	V	25.9
2486.7	49.8	74.0	V	24.2
2491.5	52.9	74.0	H	21.1
2492.5	52.1	74.0	H	21.9
2496.5	51.6	74.0	H	22.4
3304.4	48.4	74.0	H	25.6
4130.2	48.4	74.0	H	25.6
4955.5	53.6	74.0	V	20.4
6607.8	50.0	74.0	H	24.0
7434.9	53.3	74.0	V	20.7

Measurement results, Average, TX high channel

Frequency [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Polarization H/V	Margin [dB]
2486.7	34.3	54.0	V	24.2
2491.5	37.4	54.0	H	21.1
2492.5	36.6	54.0	H	21.9
2496.5	36.1	54.0	H	22.4
4955.5	38.1	54.0	V	20.4
7434.9	37.8	54.0	V	20.7

Result [dBμV/m] = Analyser reading [dBμV] + Antenna factor [1/m] - Amplifier gain [dB] + Cable loss [dB]

6 CONDUCTED BAND EDGE MEASUREMENT

Date of test:	2018-03-14	Test location:	Wireless Center
EUT Serial:	No visible serial number on EUT	Ambient temp:	21°C
Tested by:	MTV	Relative humidity:	19 %
Test result:	Pass	Margin:	22.5 dB

6.1 Test set-up and test procedure.

The test method is in accordance with ANSI C63.10-2013 section 6.10.4.

The EUT was connected to R&S TS8997 test system via rf cable and 10 dB attenuator.

The EUT was set up in order to emit maximum disturbances.

6.2 Test conditions

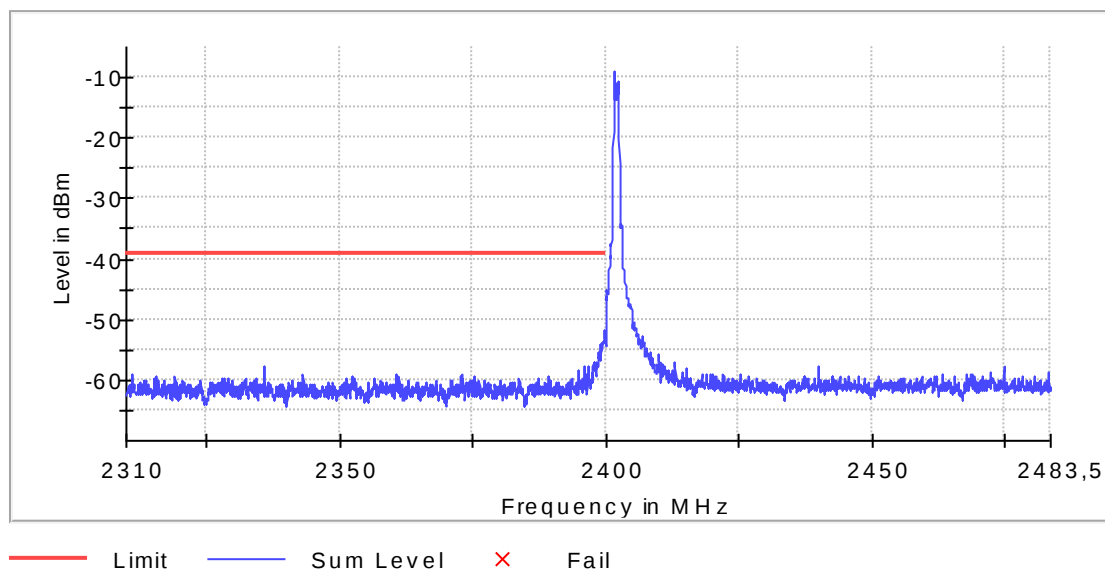
Detector: Peak,
RBW: 100 kHz
VBW: 300 kHz
Span: 100 MHz

6.3 Requirement

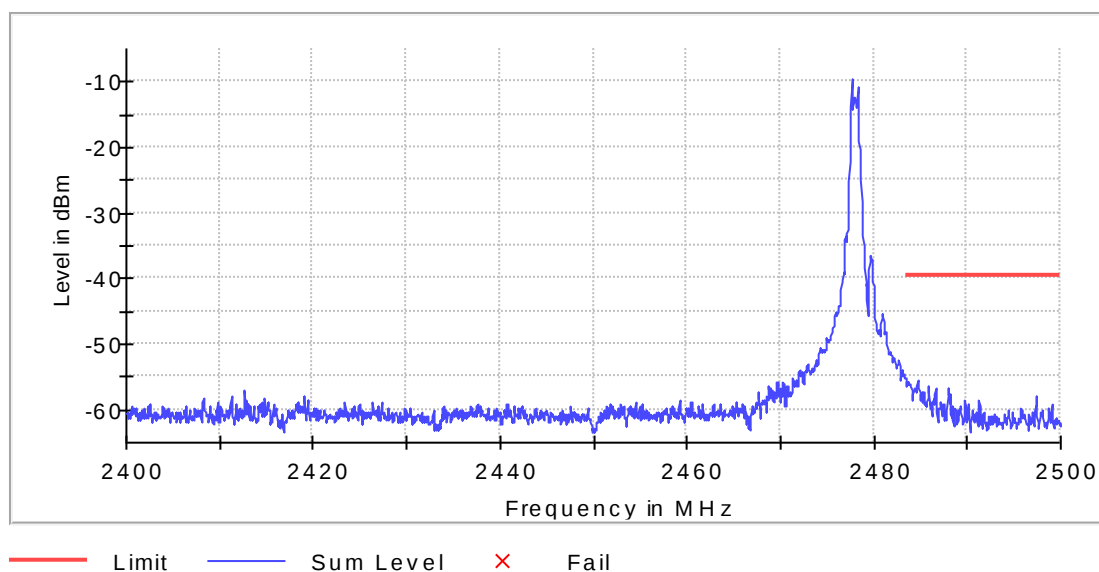
Reference: CFR 47 §15.247(d), RSS-247 5.5,

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

6.4 Test results



Screenshot: Lower band edge sweep, single channel



Screenshot: Upper band edge sweep, single channel

Test results

Band edge	Delta [dBc]	Limit [dBc]	Margin [dB]
Lower	32.5	20.0	22.5
Upper	35.9	20.0	25.9

7 PEAK CONDUCTED OUTPUT POWER

Date of test:	2018-03-14	Test location:	Wireless Center
EUT Serial:	No visible serial number on EUT	Ambient temp:	21°C
Tested by:	MTV	Relative humidity:	19 %
Test result:	Pass	Margin:	38.9 dB

7.1 Test set-up and test procedure.

The test method is in accordance with ANSI C63.10-2013 section 11.9.1.1.

The EUT was connected to R&S TS8997 test system via rf cable and 10 dB attenuator.

7.2 Test conditions

Detector: Peak,
RBW: 1 MHz
VBW: 3 MHz
Span: 3 MHz

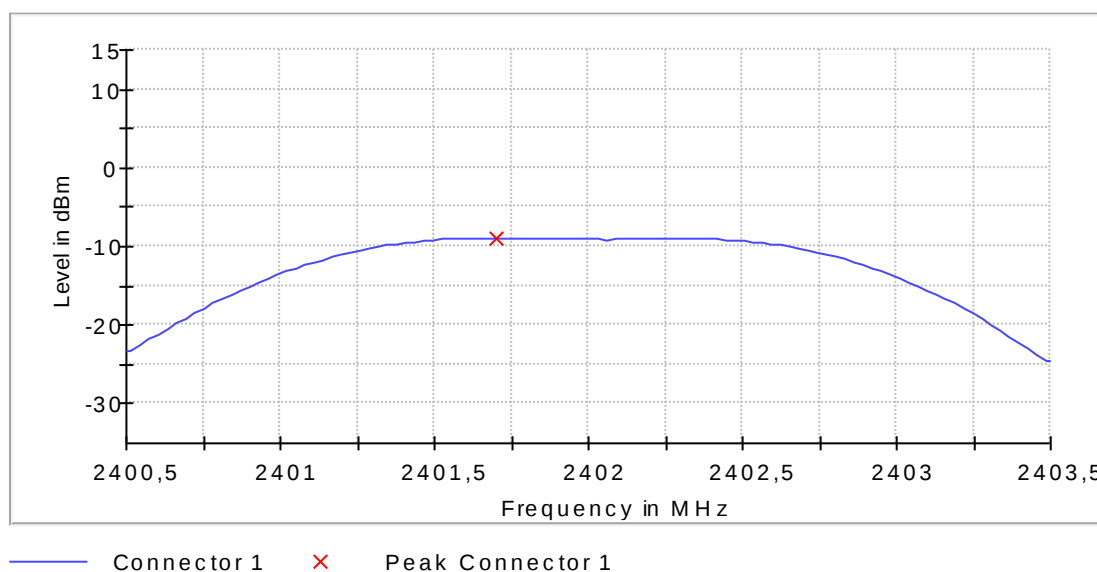
The EUT was set up in order to emit maximum disturbances.

7.3 Requirements

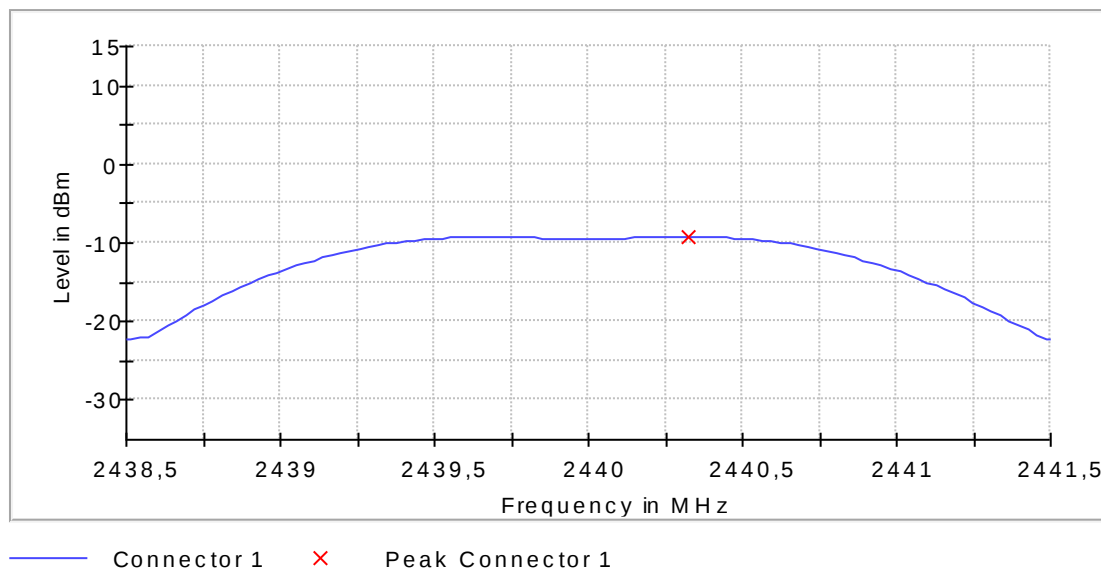
Reference: CFR 47§15.247(b)(3), RSS-247 5.4

For DTSs employing digital modulation techniques operating in the bands 902 – 128 MHz, 2400 – 2483.5 MHz and 5725 – 5850 MHz, the maximum peak conducted output power shall not exceed 1W.

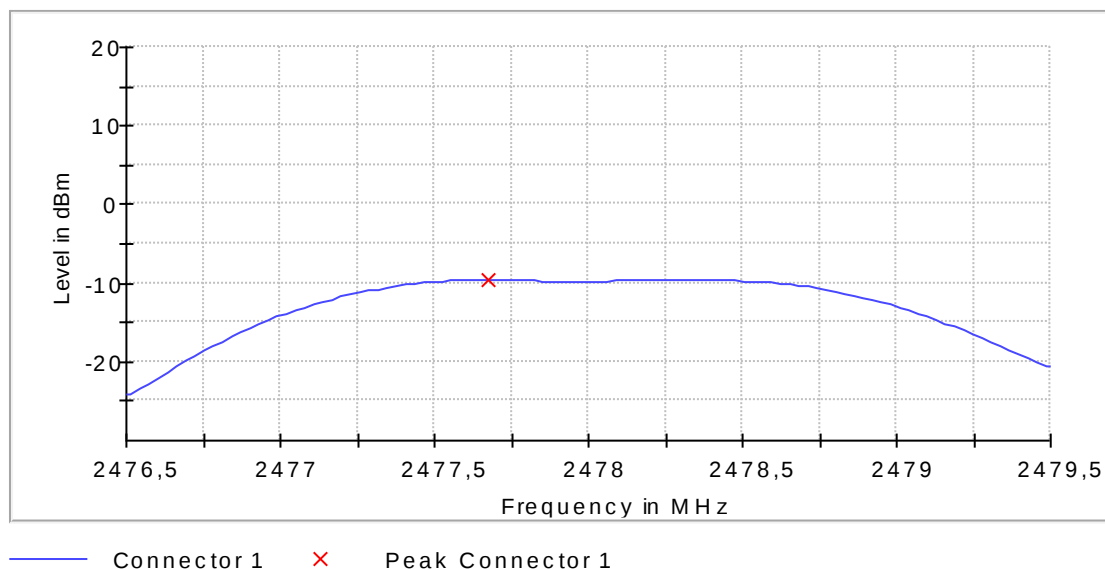
7.4 Test results



Screenshot: Output power, low channel



Screenshot: Output power, middle channel



Screenshot: Output power, high channel

Test result

Channel [MHz]	Output power [dBm]	Limit [dBm]	Margin [dB]
2402	-8,9	30	38,9
2440	-9.2	30	39.2
2478	-9.6	30	39.6

8 OCCUPIED 6 DB BANDWIDTH

Date of test:	2018-03-14	Test location:	Wireless Center
EUT Serial:	No visible serial number on EUT	Ambient temp:	21°C
Tested by:	MTV	Relative humidity:	19 %
Test result:	Pass	Margin:	351 kHz

8.1 Test set-up and test procedure.

The test method is in accordance with ANSI C63.10-2013 section 11.8.1.

The EUT was connected to R&S TS8997 test system via rf cable and 10 dB attenuator.

8.2 Test conditions

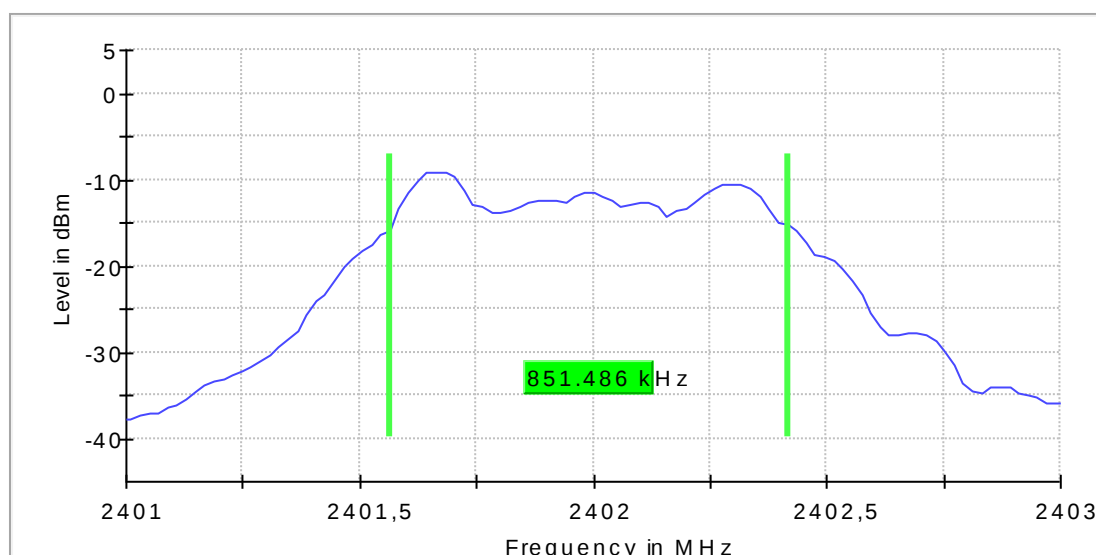
Detector: Peak,
 RBW: 100 kHz
 VBW: 3 x RBW
 Span: >1,5 x OBW

The EUT was set up in order to emit maximum disturbances.

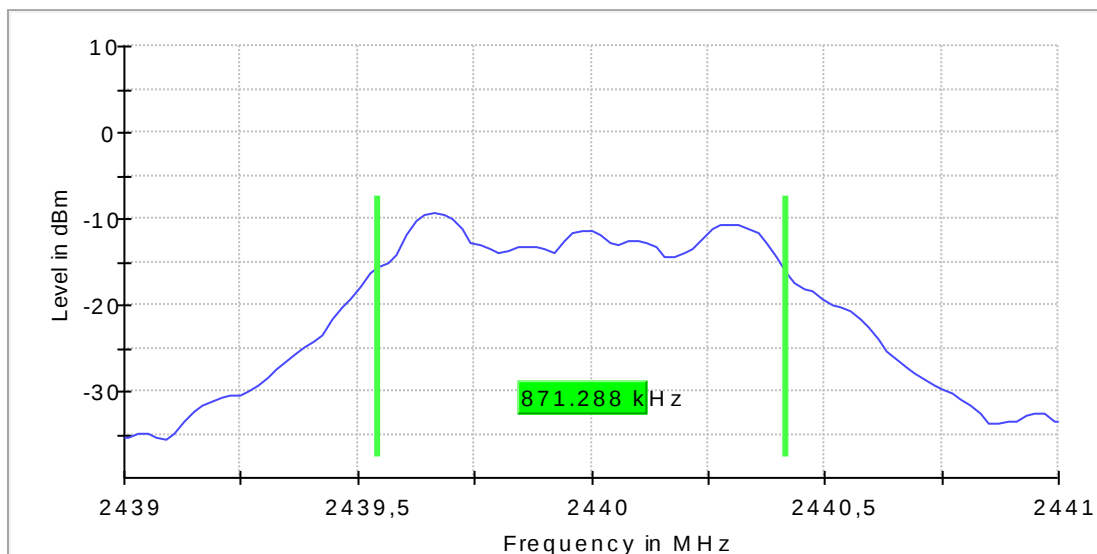
8.3 Requirements

Reference: CFR 47§15.247(a)(2), RSS-247 5.2(1)
 The minimum 6 dB bandwidth shall be 500 kHz.

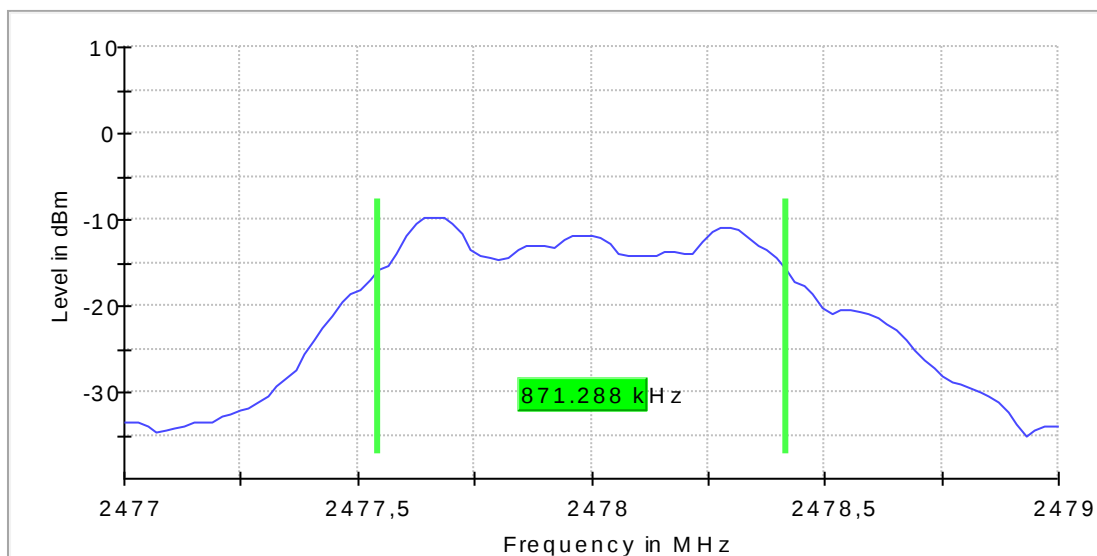
8.4 Test results



Screenshot: Occupied 6 dB bandwidth Measurement, low channel



Screenshot: Occupied 6 dB bandwidth Measurement, middle channel



Screenshot: Occupied 6 dB bandwidth Measurement, high channel

Test result

Channel [MHz]	6 dB BW [MHz]
2402	0.8515
2440	0.8713
2480	0.8713

9 99 % BANDWIDTH

Date of test:		Test location:	Wireless Center
EUT Serial:	No visible serial number on EUT	Ambient temp:	21°C
Tested by:	MTV	Relative humidity:	19 %
Test result:	-	Margin:	N/A

9.1 Test set-up and test procedure.

The test method is in accordance with RSS-GEN section 6.6.

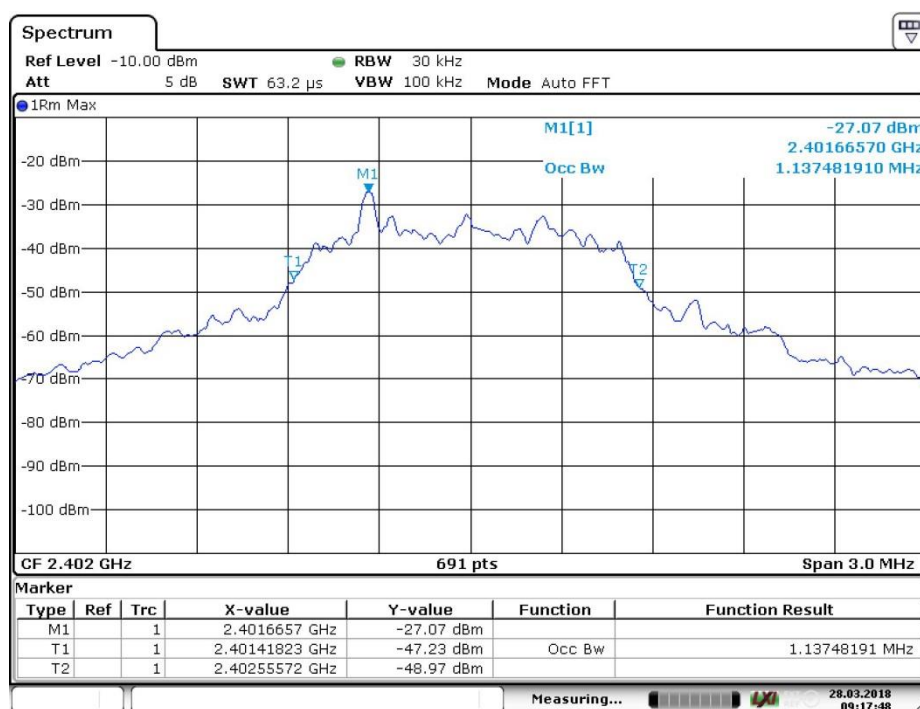
The EUT was connected to R&S TS8997 test system via rf cable and 10 dB attenuator.

9.2 Test conditions

Detector: Peak,
RBW: 1 – 5 % of OBW
VBW: 3 x RBW

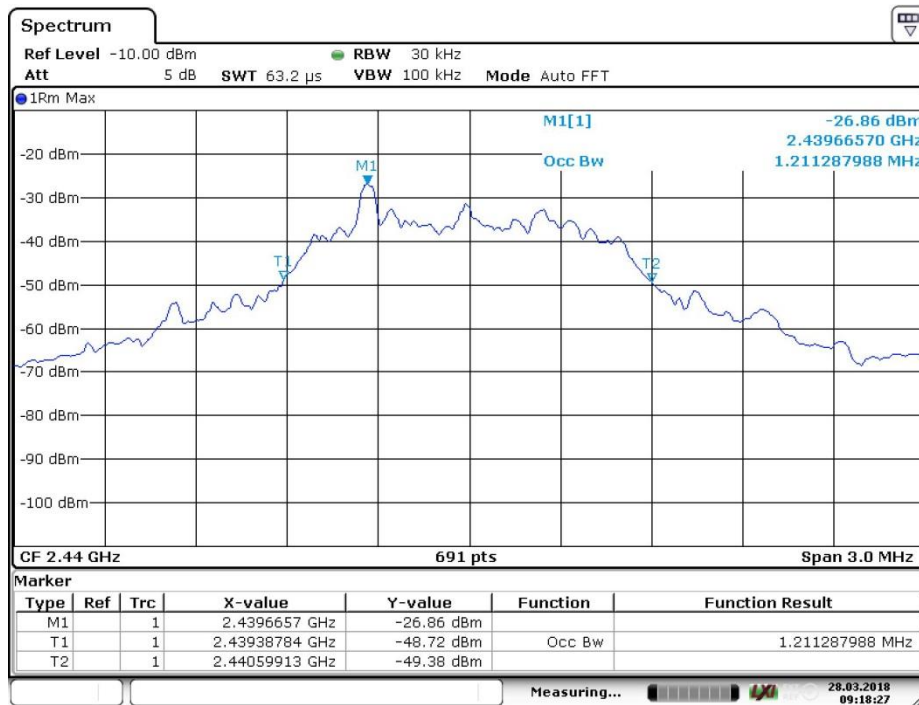
The EUT was set up in order to emit maximum disturbances.

9.3 Test results



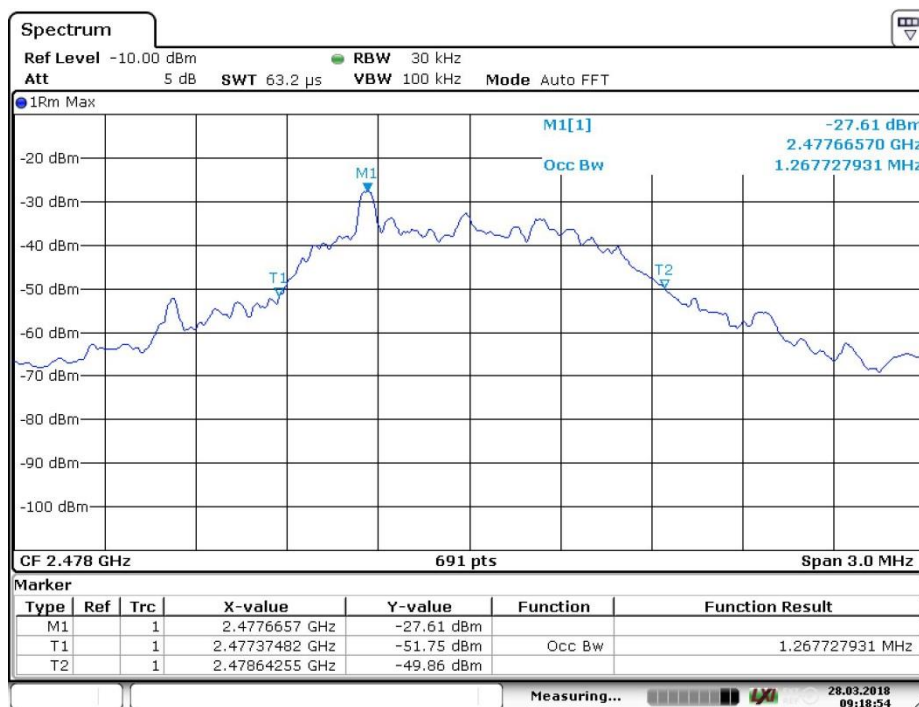
Date: 28.MAR.2018 09:17:48

Screenshot: 99 % bandwidth Measurement, low channel



Date: 28.MAR.2018 09:18:28

Screenshot: 99 % bandwidth Measurement, middle channel



Date: 28.MAR.2018 09:18:54

Screenshot: 99 % bandwidth Measurement, high channel

Test result

Channel [MHz]	99 % BW [MHz]
2405	1.137
2440	1.211
2478	1.268

10 PEAK POWER SPECTRAL DENSITY

Date of test:	2018-03-14	Test location:	Wireless Center
EUT number:	No visible serial number on EUT	Ambient temp:	21°C
Tested by:	MTV	Relative humidity:	19 %
Test result:	Pass	Margin:	21.1

10.1 Test set-up and test procedure.

The test method is in accordance with ANSI C63.10-2013 section 11.10.2.

The EUT was connected to R&S TS8997 test system via rf cable and 10 dB attenuator.

10.2 Test conditions

Detector: Peak,
RBW: 10 kHz
VBW: 30 kHz
Span: 1.5 MHz

The EUT was set up in order to emit maximum disturbances.

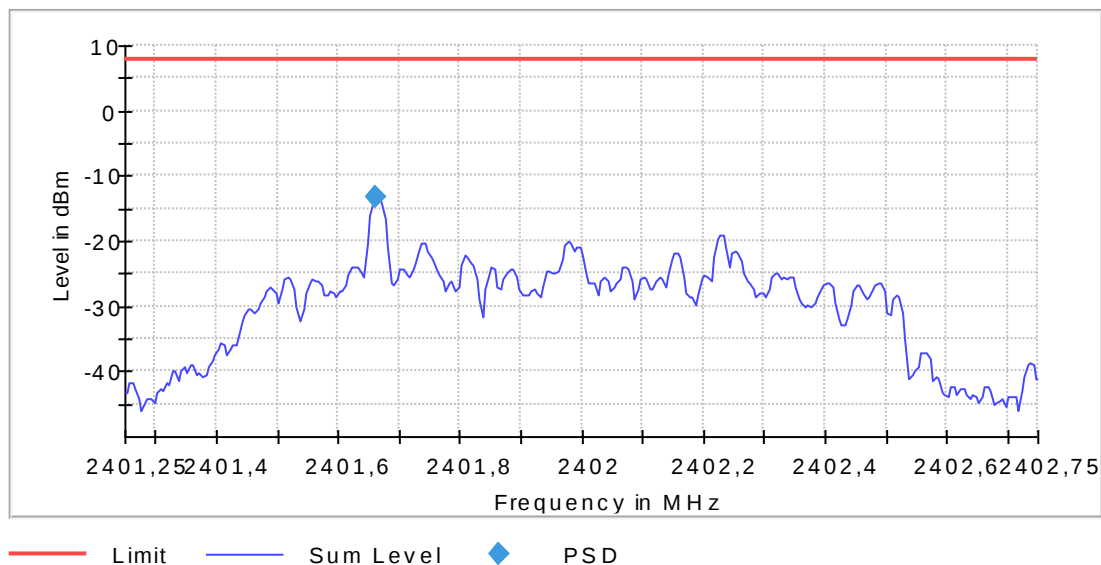
10.3 Requirements

Reference: CFR 47§15.247(3), RSS-247 5.2(2)

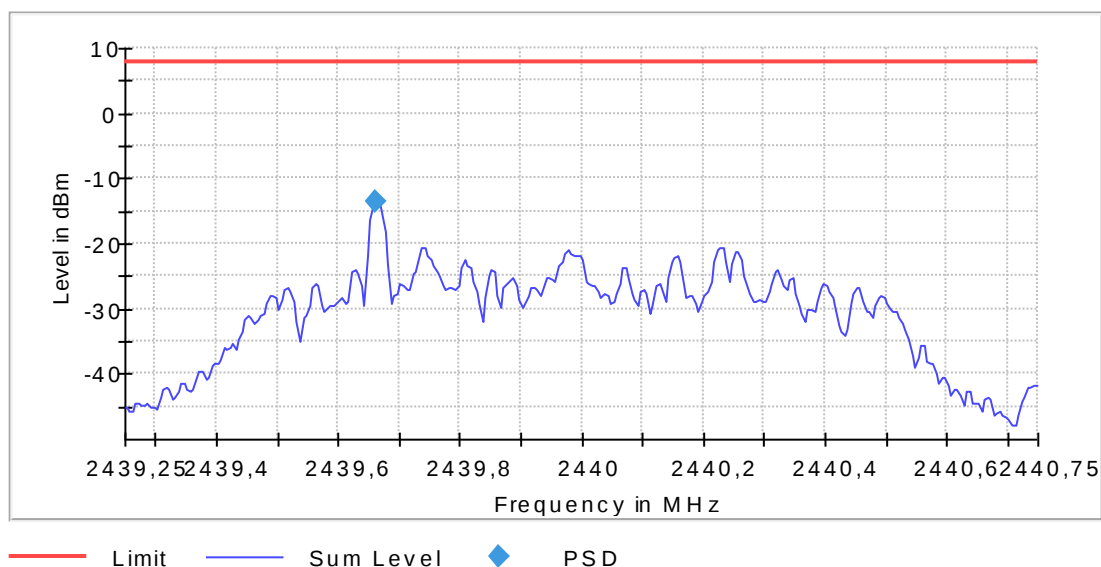
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

10.4 Test results

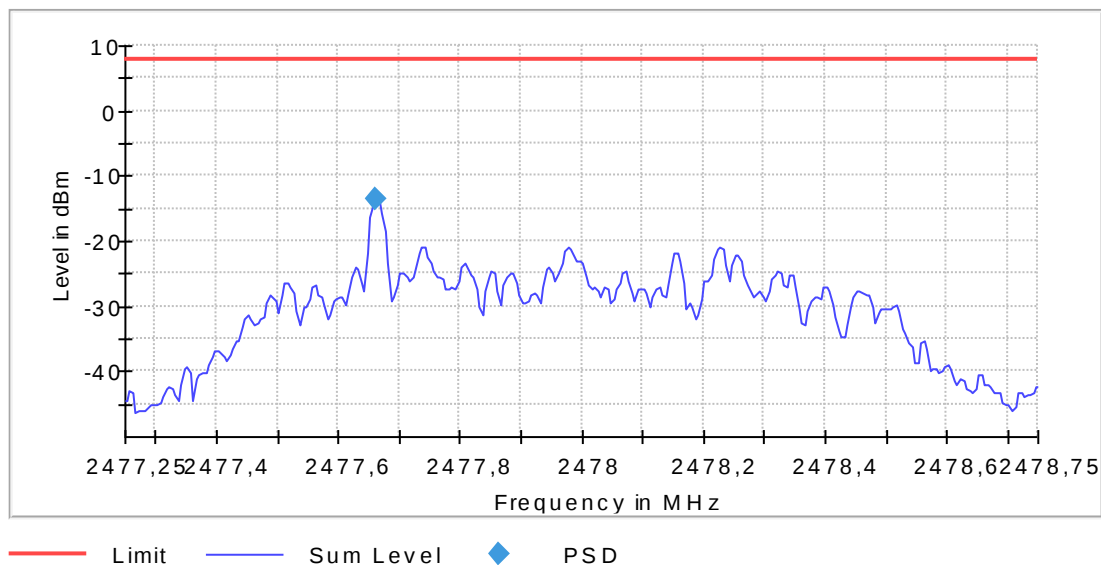
Channel [MHz]	PSD [dBm/3kHz]	Limit [dBm/3kHz]	Margin [dB]
2402	-13.1	8	21.1
2440	-13.5	8	21.5
2480	-13.6	8	21.6



Screenshot: Peak power spectral density, low channel



Screenshot: Peak power spectral density, middle channel



Screenshot: Peak power spectral density, high channel

11 TRANSMITTER DUTY CYCLE FOR PULSED TRANSMISSIONS

Date of test:	2018-03-14	Test location:	Wireless Center
EUT Serial:	No visible serial number on EUT	Ambient temp:	21°C
Tested by:	MTV	Relative humidity:	19 %
Test result:	Pass	Margin:	NA

11.1 Test set-up and test procedure.

The test method is in accordance with ANSI C63.10.section 7.5

The EUT was connected to R&S TS8997 test system via rf cable and 10 dB attenuator.

11.2 Test conditions

Detector: Peak
 RBW 1 MHz
 VBW 3 x RBW
 Span 0 Hz
 Sweep time 100 ms

11.3 Requirement

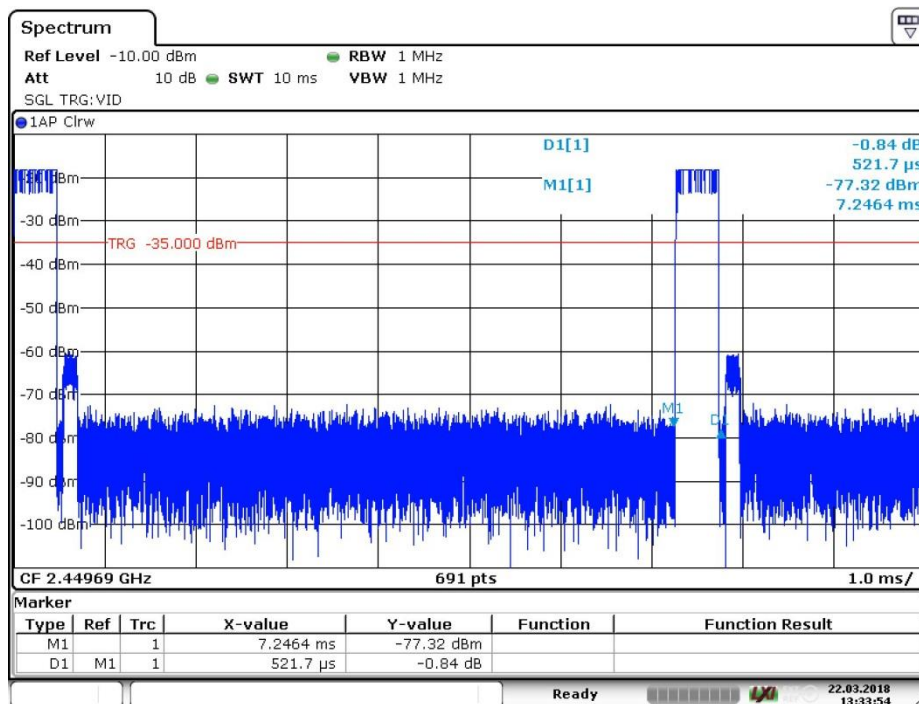
CFR 47 15.35(c) and RSS-GEN section 6.10

11.4 Test results

$T_{on} = 522 \mu s \times 32 = 16.702 \text{ ms}$

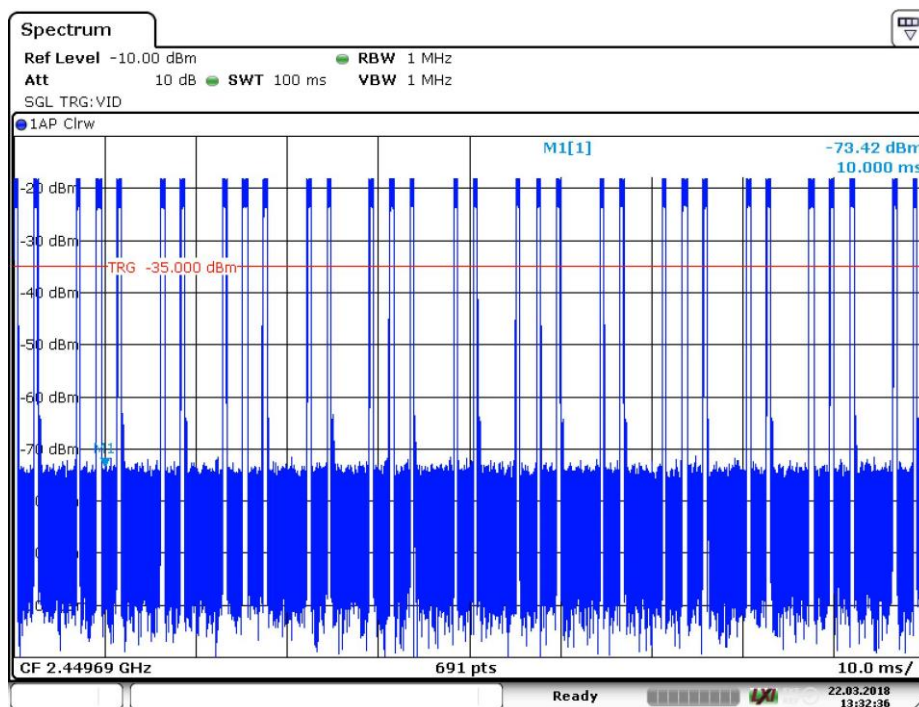
Duty cycle is calculated $T_{on} / 100 \text{ ms} = 0.167$

Peak to average correction factor = $20 \text{ LOG (Duty cycle)} = -15.5 \text{ dB}$



Date: 22.MAR.2018 13:33:55

Screenshot: Time of one pulse



Date: 22.MAR.2018 13:32:37

Screen shot: 100 ms measurement

12 TEST EQUIPMENT

Björkhallen 3m SAC

Equipment type	Manufacturer	Model	Inv. No.	Last Cal. date	Cal. interval
Measurement software	Rohde & Schwarz	EMC32 - 10.80	--	--	--
Measurement receiver	Rohde & Schwarz	ESI 26	32288	7-2017	1 year
Ultralog antenna	Rohde & Schwarz	HL562	30711	1-2017	3 years

Radiohallen 3m FAC

Equipment type	Manufacturer	Model	Inv. No.	Last Cal. date	Cal. interval
Measurement software	Rohde & Schwarz	EMC32 - 10.80	--	--	--
Measurement receiver	Rohde & Schwarz	ESU 40	12793	1-2018	1 year
Measurement cable	Huber + Suhner	Sucoflex 104 PE	39070	7-2017	1 year
Measurement cable	Huber + Suhner	Sucoflex 104 PE	39079	7-2017	1 year
Measurement cable	Huber + Suhner	Sucoflex 104	5191	7-2017	1 year
Horn antenna	EMCO	3115	4936	7-2017	3 years
Pre amplifier	Sangus	00101400-23-10P -6-S ; AFS44-12002400-32-10P -44	12335	7-2017	1 year
2,4 GHz band reject filter:	K&L MICROWAVE INC	6N45-2450/T100-0/0	12389	3/2018	1 year
4 GHz high pass filter	K&L MICROWAVE INC	4410-X4500/18000-0/0	5133	8/2017	1 year
Horn antenna	EMCO	3160-08	30099	10-2016	3 years
Horn antenna	EMCO	3160-09	30101	10-2016	3 years

TS8897

Equipment type	Manufacturer	Model	Inv. No.	Last Cal. date	Cal. interval
Measurement software	Rohde & Schwarz	WMS32 - 10.80			
Open switch and control platform	Rohde & Schwarz	OSP120	32595	7-2017	1 year
Signal analyzer:	Rohde & Schwarz	FSV	32594	7-2017	1 year
Signal generator:	Rohde & Schwarz	SMB100A	32592	7-2017	1 year
Vector Signal generator	Rohde & Schwarz	SMBV100A	32593	7-2017	1 year
10 dB Attenuator:	Rohde & Schwarz	-	33205	7-2017	1 year

13 MEASUREMENT UNCERTAINTY

Continuous conducted disturbances with AMN in the frequency range 9 kHz to 30 MHz ± 3.7 dB

Measurement uncertainty for radiated disturbance

Uncertainty for the frequency range 30 to 1000 MHz at 3 m	± 5.1 dB
Uncertainty for the frequency range 30 to 1000 MHz at 10 m	± 5.0 dB
Uncertainty for the frequency range 1.0 to 18 GHz at 3 m	± 4.7 dB
Uncertainty for the frequency range 18 to 26 GHz at 3 m	± 4.8 dB
Uncertainty for the frequency range 26 to 40 GHz at 3 m	± 5.7 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2:2011.

The measurement uncertainty is given with a confidence of 95 %.

14 TEST SET UP AND EUT PHOTOS

EUT photos are in separate document 1805427STO-001 Annex 1.

Test set up photos are in separate document 1805427STO-001 Annex 2.