

RADIO TEST REPORT

No. 1407843STO-001 Ed. 2

RF performance

EQUIPMENT UNDER TEST

Equipment : Sports watch / training computer with GPS
Marketing name: Suunto Ambit 3
Type / model : OW143
Manufacturer : Suunto Oy
Tested by request of : Suunto Oy

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

47 CFR Part 15, Subpart C, Intentional radiators, section 15.247
RSS-Gen Issue 3 (2010) RSS-210 Issue 8 (2010)
Test methods according to ANSI C63.10-2009

Date of issue: 2014-08-13

Tested by:  Matti Virkki

Approved by:  Niklas Boström

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Revision History

Edition	Date	Description
1	2014-07-09	First release
2	2014-08-13	Added rf-exposure analysis and more accurate calibration due date for test instruments.

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1 CLIENT INFORMATION

The EUT has been tested by request of

Company: Suunto Oy
Valimotie 7
FI-01510
Vantaa
Finland

Name of contact: Heikki Puuri

2 EQUIPMENT UNDER TEST (EUT)**2.1 Identification of the EUT according to the manufacturer declaration**

Equipment: Sports watch / training computer with GPS

Type/Model: OW143

Brand name: Suunto

Serial number: P5423015 / P5423025

Manufacturer: Suunto Oy

Transmitter frequency range: 2402 –2480 MHz

Receiver frequency range: 2402 – 2480 MHz

Frequency agile or hopping: Yes No

Antenna: Internal antenna External antenna

Antenna connector: None, internal antenna Yes, type SMB

Antenna gain:

Rating RF output power: 0 dBm (-1.92 dBm measured)

Type of modulation: GFSK

Temperature range: Category I (General): -20°C to +55°C
 Category II (Portable equipment): -10°C to +55°C
 Category III (Equipment for normal indoor use): +5°C to +35°C
 Other: <-20°C to +55°C

Power rating: 3,7 V Li-Ion battery

Transmitter stand by mode supported: Yes No

2.2 Additional hardware information about the EUT

The EUT consists of the following units:

Unit	HW version	Serial number
1 with temporary SMA connector	E.1.D.2	P5423015
2	E.1.D.2	P5423025

2.3 Additional software information about the EUT

During the tests the EUT supported the following software:

Software	Version / Release	Comment
Main software	0.4.40	
BLE software	1-0-35	

2.4 Test signals

Continuous signal with GFSK modulation on 3 frequencies 2402, 2440 and 2480 MHz.

2.5 Modification during the tests

No modifications have been made during the tests.

3 TEST SPECIFICATIONS

3.1 Standards

47 CFR Part 15, Subpart C, Intentional radiators, section 15.247
 RSS-Gen Issue 3 (2010) RSS-210 Issue 8 (2010)

Test methods in:

ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices

3.2 Additions, deviations and exclusions from standards and accreditation

No 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 Industry Canada listed test facility with IC assigned code 2042G

Measurement chambers

Measurement Chamber	Type of chamber	IC Site filing #
5m chamber	Semi-anechoic 3m	2042G-3
RADIOHALLEN	Fully-anechoic 3m	--

3.4 Test set-up

Unless otherwise specified EUT antenna port was connected to spectrum analyser via rf-cable.

3.5 Test conditions

If not additionally specified, the tests were performed under the following environmental conditions:

Parameter	Normal	Extreme
Supplying voltage, V	3.7	-
Air temperature, °C	22	-

4 TEST SUMMARY

The results in this report apply only to the tested sample:

Test	Result	Section in report	Note
Standard test methods			
AC power-line conducted tests	NA		Class A / B
Radiated test below 30 MHz	NA		
Radiated emissions measurements from 30 to 1000 MHz	Pass	5	
Determination of radiated and antenna conducted emissions above 1 GHz	Pass	6	
Frequency Stability Test	NA		
Occupied bandwidth and band-edge tests	Pass	7	
Output Power average symbol envelope power	NA		
Power Spectral Density < 40 GHz	Pass	9	
Power Spectral Density > 40 GHz	NA		
In-situ measurements	NA		
Polar plot, main lobe and variation on radiated emissions test	NA		
Device-specific tests			
Determining the average value of pulsed emissions per 15.35(c)	NT		
Determination of frequency hopping compliance per 47 CFR 15.247	NA		
Determination of digital modulation compliance per 47 CFR 15.247	Pass	7	
Determination of peak conducted output unlicensed wireless device power [15.247(b), 15.255]	Pass	8	
Determination of antenna gains, including those emitting in multiple directions (15.247)	Pass	6	
Determination of compliance with RF exposure limits	NT		

NT = Not Tested, by request of the Client

NA = Not Applicable

Notes:

1. The measured result is below the upper limit, but by a margin less than half of the uncertainty interval. It is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance is more probable than non-compliance.
2. The measured result is above the upper limit, but by a margin less than half of the uncertainty interval. It is therefore not possible to state non-compliance based on the 95% level of confidence. However, the result indicates that non-compliance is more probable than compliance.

5 RADIATED EMISSIONS MEASUREMENTS FROM 30 MHZ TO 1000MHZ

Date of test:	2014-7-3	Test location:	5m chamber
EUT Serial:	P5423025	Ambient temp.	22
Tested by:	Matti Virkki	Relative humidity	35
Test result:	Pass	Margin:	>20 dB

5.1 Requirement

In restricted bands Reference: FCC §15.209, IC RSS-210 Table 3
 Outside the restricted bands: FCC 15.247 (d), RSS-210 A8.5

Frequency (MHz)	Field strength (dBµV/m)	Measurement distance (m)
30 – 88	40.0	3
88 – 216	43.5	3
216 – 960	46.0	3
960 –	54.0	3

5.2 Test setup details

EUT was placed on non-conductive table 80 cm above the ground plane. Preliminary sweep was made in EUT position 1

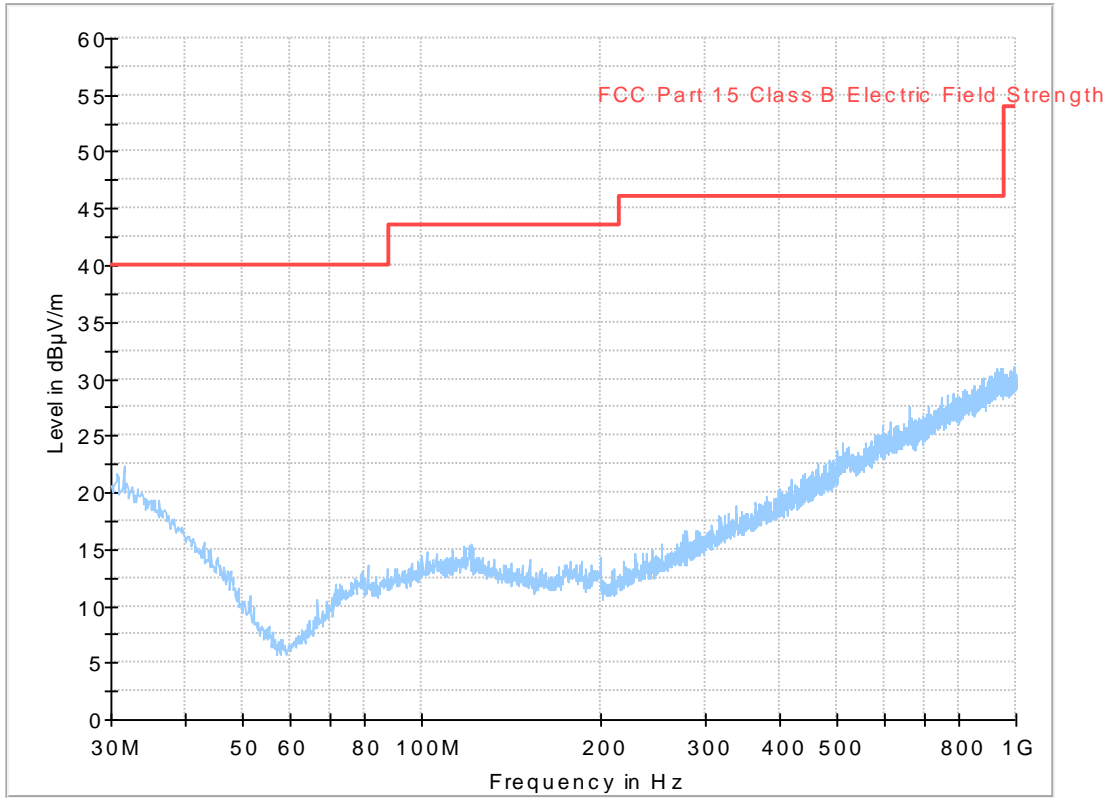
Test set-up photo:



5.3 Test data

Overview sweeps performed with peak detectors, ch 2

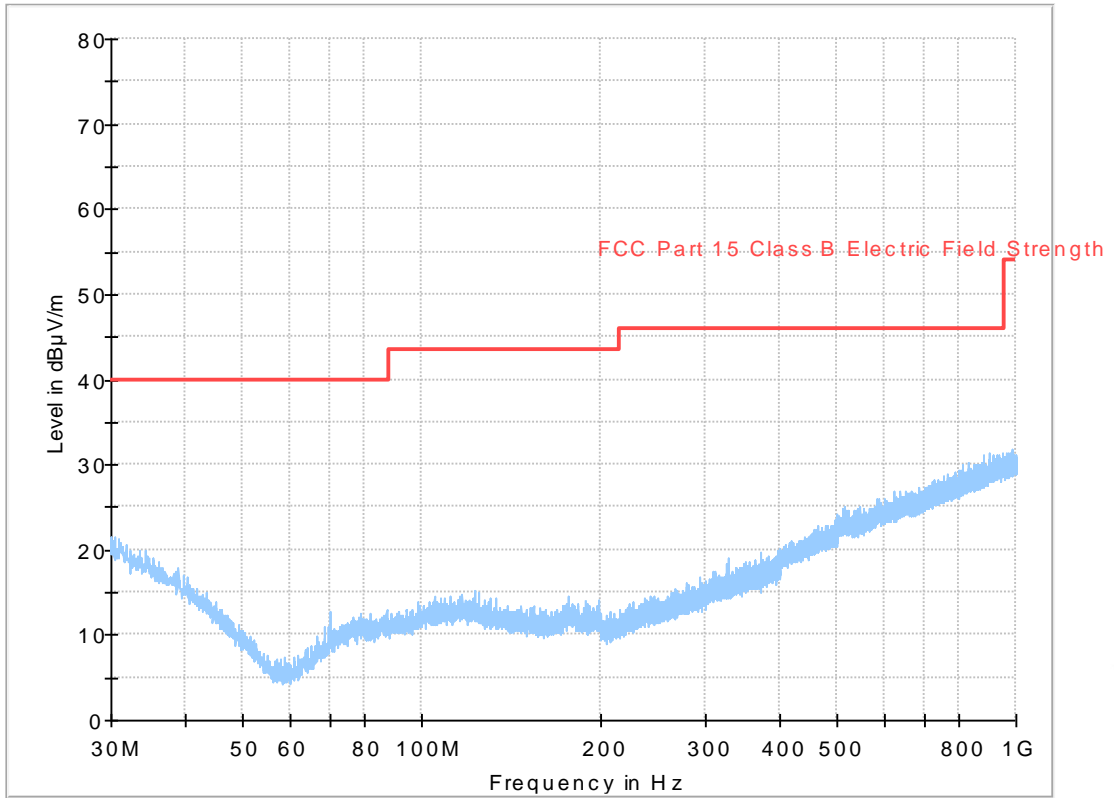
Full Spectrum



Measured level [dBµV/m] = Analyser reading [dBµV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [dB/m]

Overview sweeps performed with peak detectors, ch 40

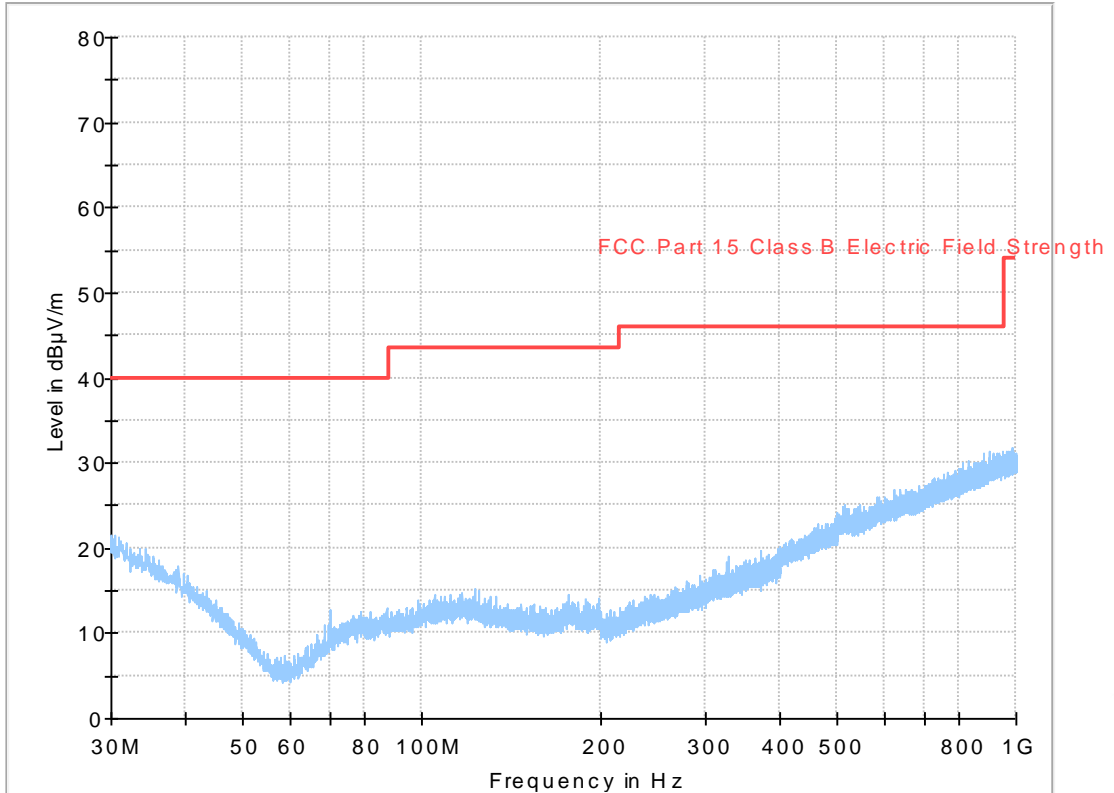
Full Spectrum



Measured level [dBµV/m] = Analyser reading [dBµV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [dB/m]

Overview sweeps performed with peak detectors, ch 80

Full Spectrum



Measured level [dBµV/m] = Analyser reading [dBµV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [dB/m]

5.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Measurement software	Rohde & Schwarz	EMC 32	--	--
Receiver	Rohde & Schwarz	ESI	32291	7/15/2014
UltraLog antenna	Rohde & Schwarz	HL 562	30711	12/27/2014
Hornantenna	Rohde & Schwarz	HF907	32307	6/19/2015
Pre amplifier	Rohde & Schwarz	TS-PRE1	32306	7/10/2014
Switch unit	Rohde & Schwarz	OSP130	32300	7/24/2014
Filter unit	Rohde & Schwarz	OSP-F7-B	32301	--

6 RADIATED EMISSIONS MEASUREMENTS ABOVE 1 GHZ

Date of test:	2014-07-03	Test location:	5m chamber
EUT Serial:	P5423025	Ambient temp.	23 C
Tested by:	Matti Virkki	Relative humidity	35 %
Test result:	Pass	Margin:	8.35 dB

6.1 Requirement

Reference: FCC §15.209, IC RSS-210 Table 3

In the restricted bands:

Frequency (MHz)	Field strength (dB μ V/m)	Measurement distance (m)
30 – 88	40.0	3
88 – 216	43.5	3
216 – 960	46.0	3
960 –	54.0	3

Outside the restricted bands: FCC 15.247 (d), RSS-210 A8.5
Carrier – 20 dB.

6.2 Test setup details

EUT was placed on non-conductive table 80 cm above the ground plane.
Absorbers were placed on floor between EUT and antenna. Carrier level and all harmonics were measured in 3 different EUT positions

Test set-up photo:



EUT pos 1



EUT pos 2

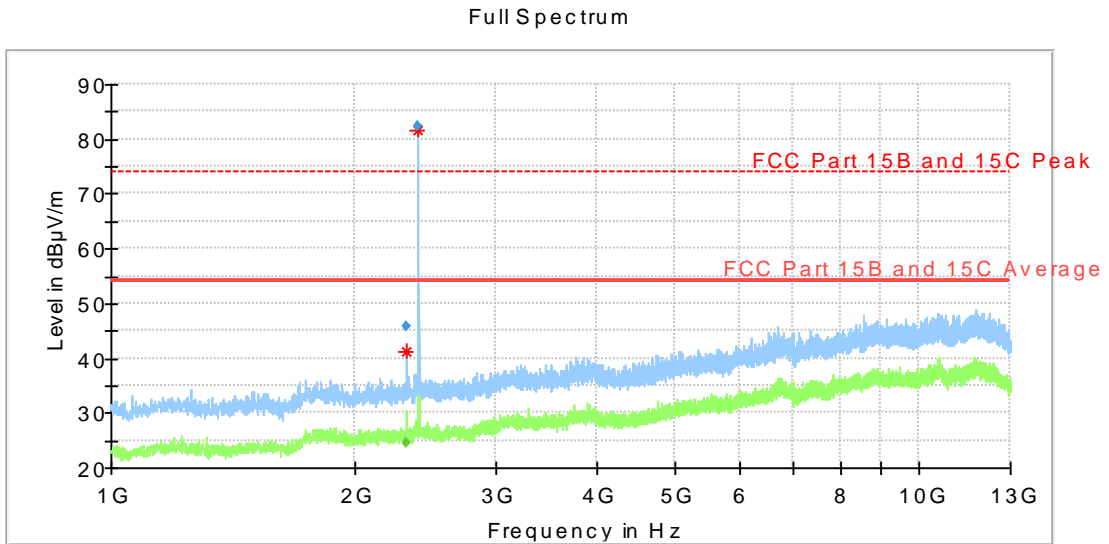


EUT pos 3

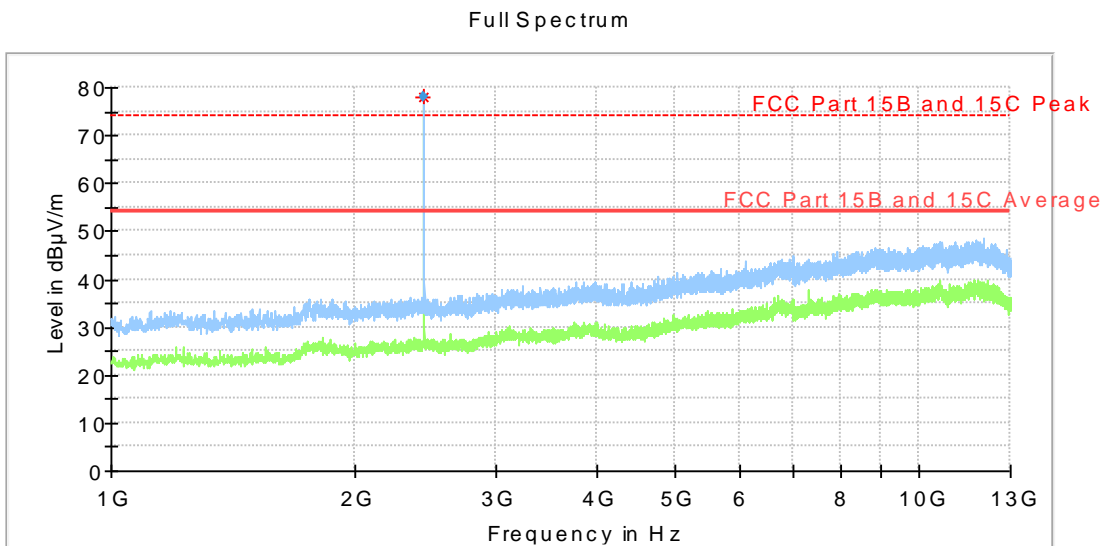


6.3 Test data

Overview sweeps performed with peak detectors, Frequency range 1 – 13 GHz Ch. 2

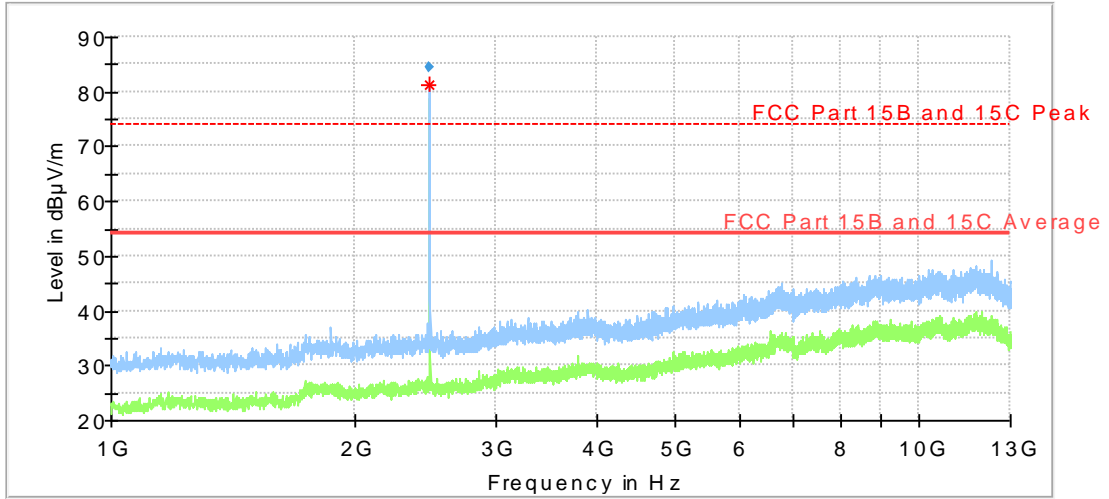


Overview sweeps performed with peak detectors, Frequency range 1 – 13 GHz Ch. 18



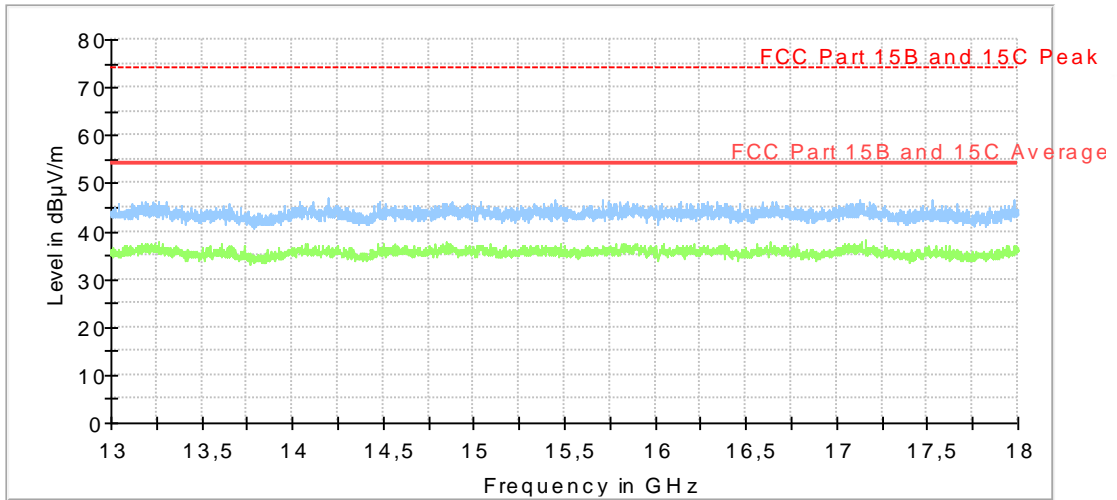
Overview sweeps performed with peak detectors, Frequency range 1 – 13 GHz Ch. 80

Full Spectrum



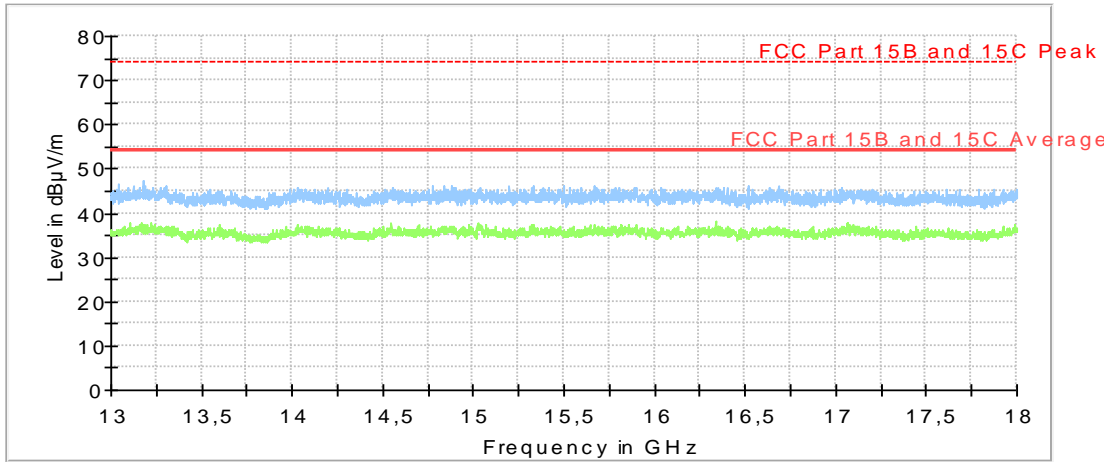
Overview sweeps performed with peak detectors, Frequency range 13 – 18 GHz Ch.2

Full Spectrum



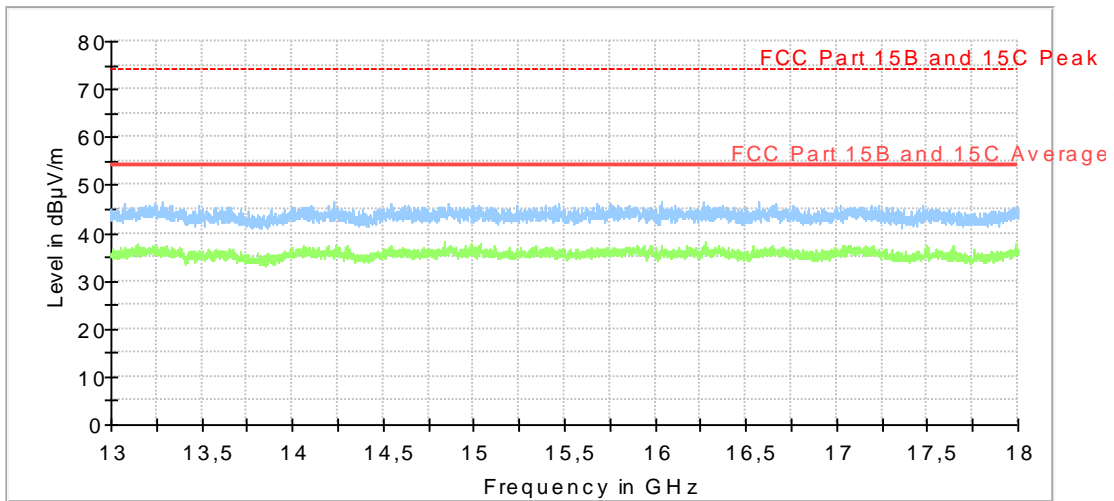
Overview sweeps performed with peak detectors, Frequency range 13 - 18 GHz Ch. 40

Full Spectrum

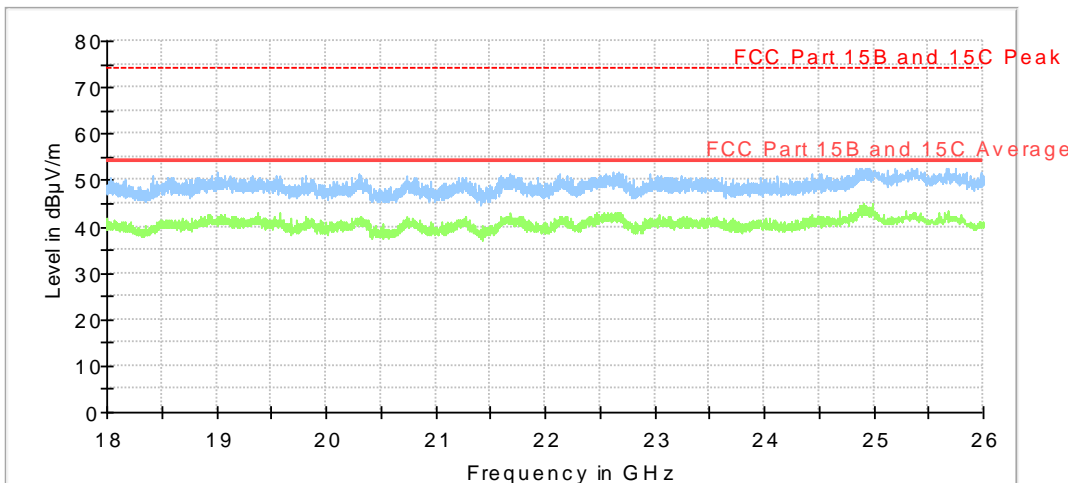


Overview sweeps performed with peak detectors, Frequency range 13 - 18 GHz Ch. 40

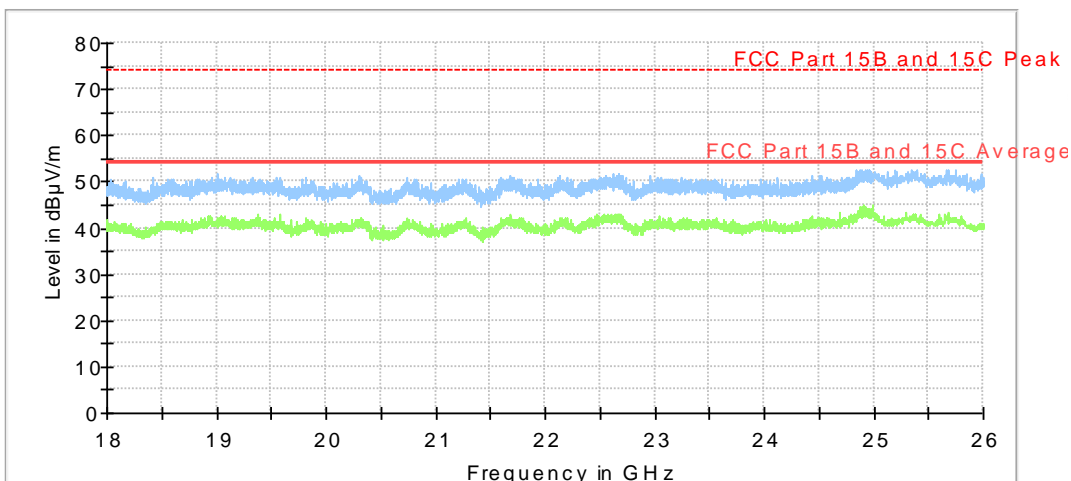
Full Spectrum



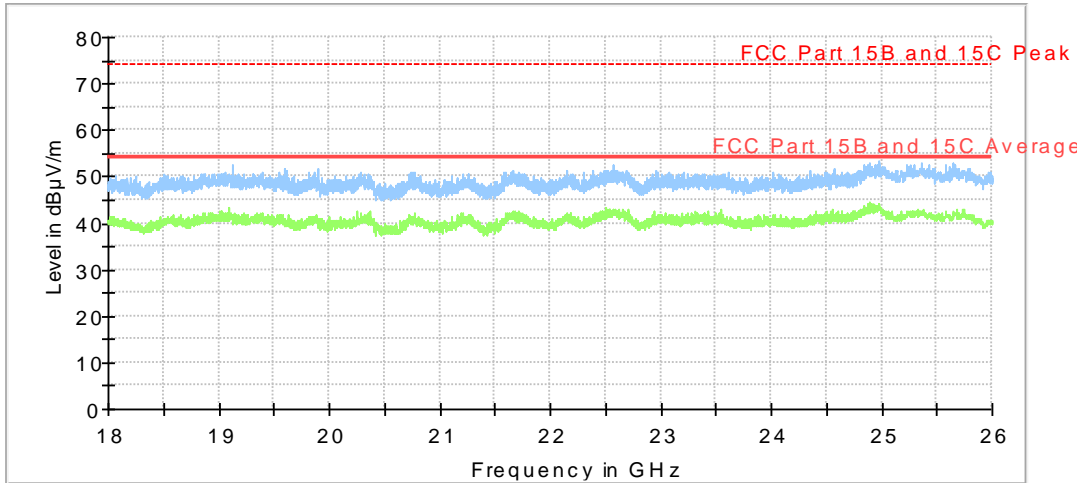
Overview sweeps performed with peak detectors, Frequency range 18 – 26 GHz Ch. 2
Full Spectrum



Overview sweeps performed with peak detectors, Frequency range 18 – 26 GHz Ch. 40
Full Spectrum



Overview sweeps performed with peak detectors, Frequency range 18 – 26 GHz Ch. 80
Full Spectrum



Channel 2

Frequency (MHz)	MaxPeak (dBµV/m)	EUT pos.	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2401.893	86.64	3	94	7.26	100	H	60.0	-8.5
2324.318	45.65	1	54.00	8.35	130.0	V	55.0	-9.1

Channel 40

Frequency (MHz)	MaxPeak (dBµV/m)	EUT pos.	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2439.869	85.1	1	94	8.80	225.0	V	53.0	-8.8

Channel 80

Frequency (MHz)	MaxPeak (dBµV/m)	EUT pos.	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2480.170	85.38	3	94	8.52	100	V	43.0	-8.8

Measured level [dBµV/m] = Analyser reading [dBµV] + cable loss [dB] – preamplifier gain [dB] + antenna factor [dB/m]

No harmonics were found. All measured values are peak and they comply with average limit. Therefore no averaging is used.

6.4 EIRP and antenna gain

Measured maximum transmitter field strength is converted to EIRP using following formula
 $P=(Ed)^2/(30)$.

E = field strength V/m

D = measurement distance

P = Power W

Frequency (MHz)	MaxPeak (dBμV/m)	EIRP (dBm)	Limit (dBm)
2402	86.64	-8.59	36
2440	85.1	-10.13	36
2480	85.58	-9.65	36

EIRP < 36 dBm and antenna gain <6dBi

6.5 Test equipment

Measurement software	Rohde & Schwarz	EMC 32	--	--
Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Measurement software	Rohde & Schwarz	EMC 32	--	--
Receiver	Rohde & Schwarz	ESI	32291	7/15/2014
UltraLog antenna	Rohde & Schwarz	HL 562	30711	12/27/2014
Hornantenna	Rohde & Schwarz	HF907	32307	6/19/2015
Pre amplifier	Rohde & Schwarz	TS-PRE1	32306	7/10/2014
Open Switch unit	Rohde & Schwarz	OSP130	32300	7/24/2014
Open Switch unit	Rohde & Schwarz	OSP-F7-B	32301	--

7 RF EXPOSURE ANALYSYIS

7.1 Requirement

Reference: FCC §1.1310, RSS-102 2.5, KDB 447498 D01

7.2 Data

According to KDB 447498 D01 4.3 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

EUT is wrist worn so 7.5 is the limit. Measured peak output power is rounded up to closest mW. 5 mm minimum test distance is used.

Frequency (GHz)	EIRP (mW)	Min test distance (mm)	result	Limit
2.402	1	5	0.31	7.5
2.440	1	5	0.31	7.5
2.480	1	5	0.31	7.5

RSS-102 2.5.1 states that

Above 3.3 GHz and up to 3 GHz inclusively, and with output power (I.E. the higher of the conducted or radiated (E.I.R.P.) source-based, time averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use are exempted from routine evaluation.

Maximum measured peak power is -1.92 dBm or 643 μ W..

EUT is exempted from routine evaluation.

OCCUPIED BANDWIDTH

Date of test:	2014-07-09	Test location:	EMC Center
EUT Serial:	P5423015	Ambient temp.	27°C
Tested by:	Matti Virkki	Relative humidity	35%
Test result:	Pass	Margin:	129.6 kHz

7.3 Requirement

Reference: FCC §15.247(a)(2), RSS-210 A8.2 (a)
 Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.4 Test set-up

EUT antenna port was connected to spectrum analyser via rf-cable.

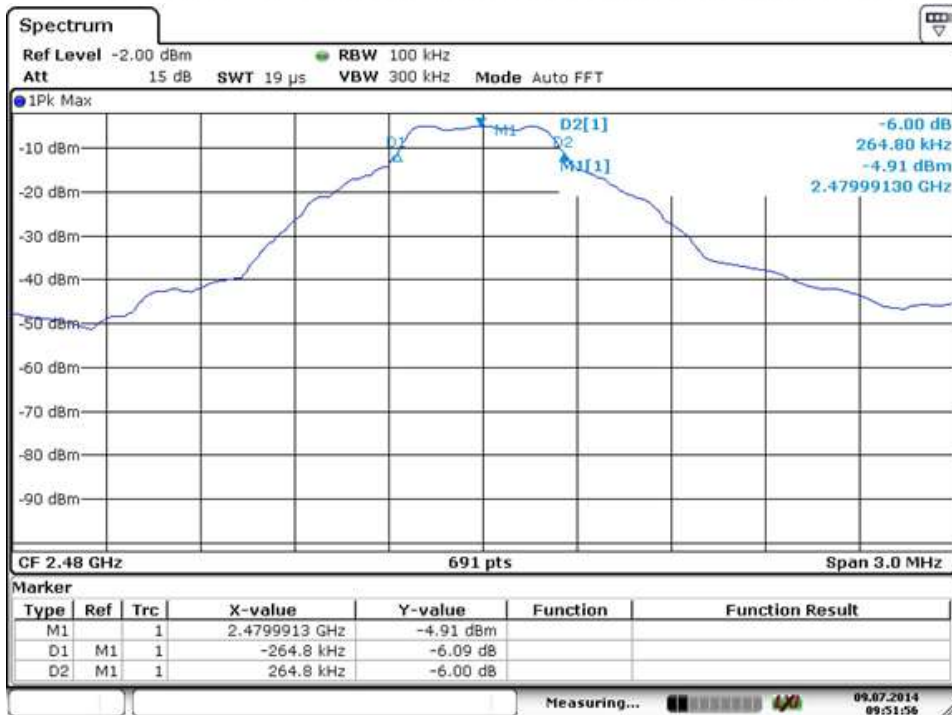
7.5 Test data



Date: 9.JUL.2014 09:44:46



Date: 9.JUL.2014 09:50:20



Date: 9.JUL.2014 09:51:56

Frequency MHz	6 dB bandwidth kHz	Limit kHz	Margin kHz
2402	534.1	500	134.1
2440	531.1	500	131.1
2480	529.6	500	129.6

7.6 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyser	Rohde & Schwarz	FSV	32594	7/31/2015

8 CONDUCTED PEAK OUTPUT POWER

Date of test:	2014-06-25	Test location:	EMC Center
EUT Serial:	P5423015	Ambient temp.	22°C
Tested by:	Matti Virkki	Relative humidity	39%
Test result:	Pass	Margin:	31.92 dB

8.1 Requirement

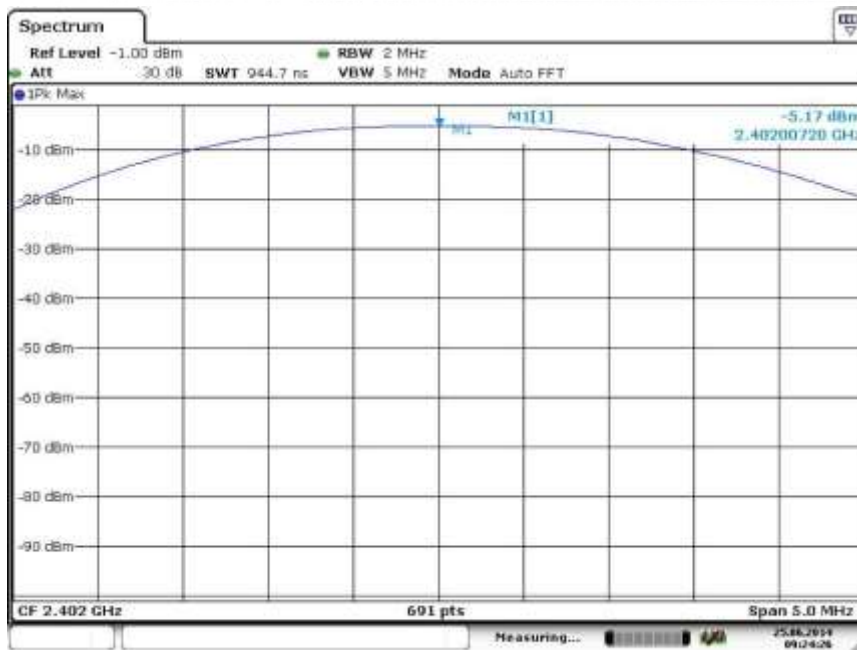
Reference: FCC §15.247(b)(3), RSS-210 A8.4.4

For systems employing digital modulation techniques operating in the bands 902–928 MHz, 2400–2483.5 MHz and 5725–5850 MHz, the maximum peak conducted output power shall not exceed 1 W.

8.2 Test set-up

EUT antenna port was connected to spectrum analyser via rf-cable.

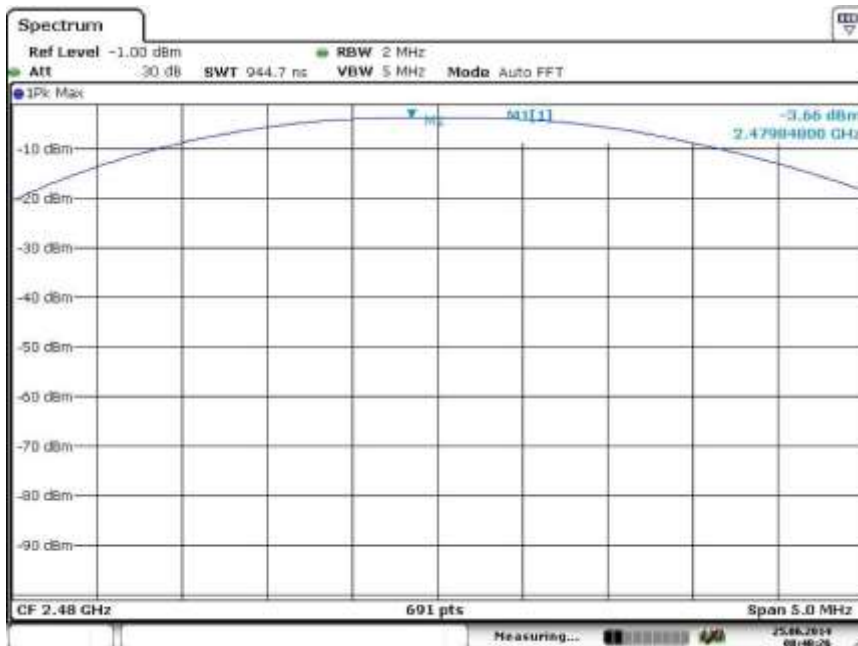
8.3 Test data



Date: 25 JUN 2014 08:34:25



Date: 25 JUN 2014 08:25:26



Date: 25 JUN 2014 08:40:27

Frequency MHz	SA reading dBm	Cable loss dB	Peak power dBm	Limit dBm	Margin dB
2402	-5.17	1.7	-3.47	30	33.47
2440	-4.62	1.7	-2.92	30	32.92
2480	-3.66	1.7	-1.92	30	31.92

Measured level [dBm] = Analyser reading [dBm] + cable loss [dB]

8.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyser	Rohde & Schwarz	FSV	32594	7/31/2015

9 PEAK POWER SPECTRAL DENSITY

Date of test:	2014-07-08	Test location:	EMC Center
EUT Serial:	P5423015	Ambient temp.	26°C
Tested by:	Matti Virkki	Relative humidity	37%
Test result:	Pass	Margin:	21.48

9.1 Requirement

Reference: FCC §15.247(e), RSS-210 A8.2 (b)

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.

9.2 Test set-up

EUT antenna port was connected to spectrum analyser via rf-cable and 10 dB attenuator.

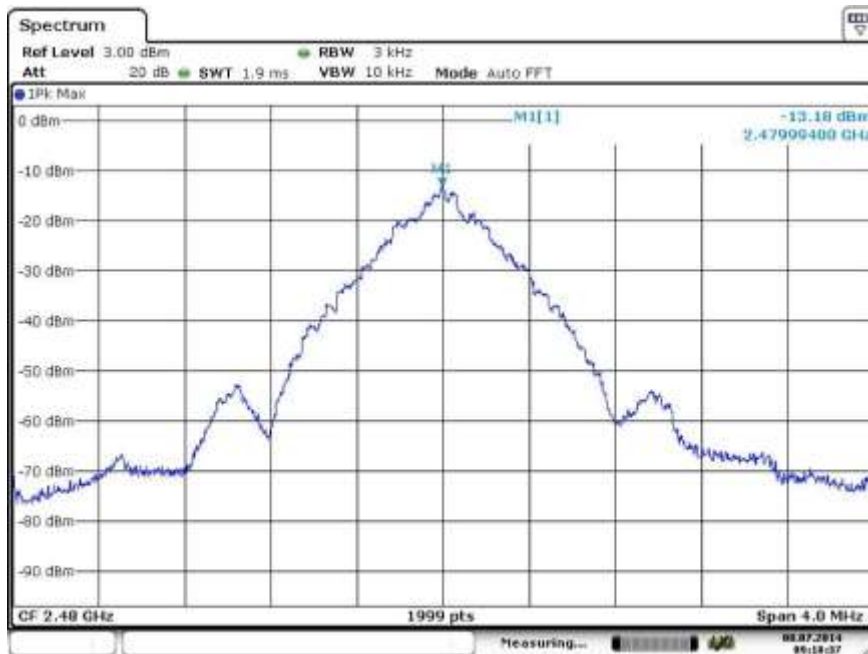
9.3 Test data



Date: 8.JUL.2014 09:23:18



Date: 8 JUL 2014 09:49:49



Date: 8 JUL 2014 09:18:37

Frequency MHz	SA reading dBm	Cable loss dB	Peak power spectral density dBm/3kHz	Limit dBm/3kHz	Margin dB
2402	-15.20	1.7	-13.50	8	21.50
2445	-15.18	1.7	-13.48	8	21.48
2480	-13.18	1.7	-14.88	8	22.88

Measured level [dBm] = Analyser reading [dBm] + cable loss [dB]

9.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyser	Rohde & Schwarz	FSV	32594	7/31/2015

10 BAND EDGE

Date of test:	2014-07-08	Test location:	EMC Center
EUT Serial:	P5423015, P5423025	Ambient temp.	26°C
Tested by:	Matti Virkki	Relative humidity	37%
Test result:	Pass	Margin:	12.17

10.1 Requirement

Reference: FCC §15.247(d), RSS-210 A8.5

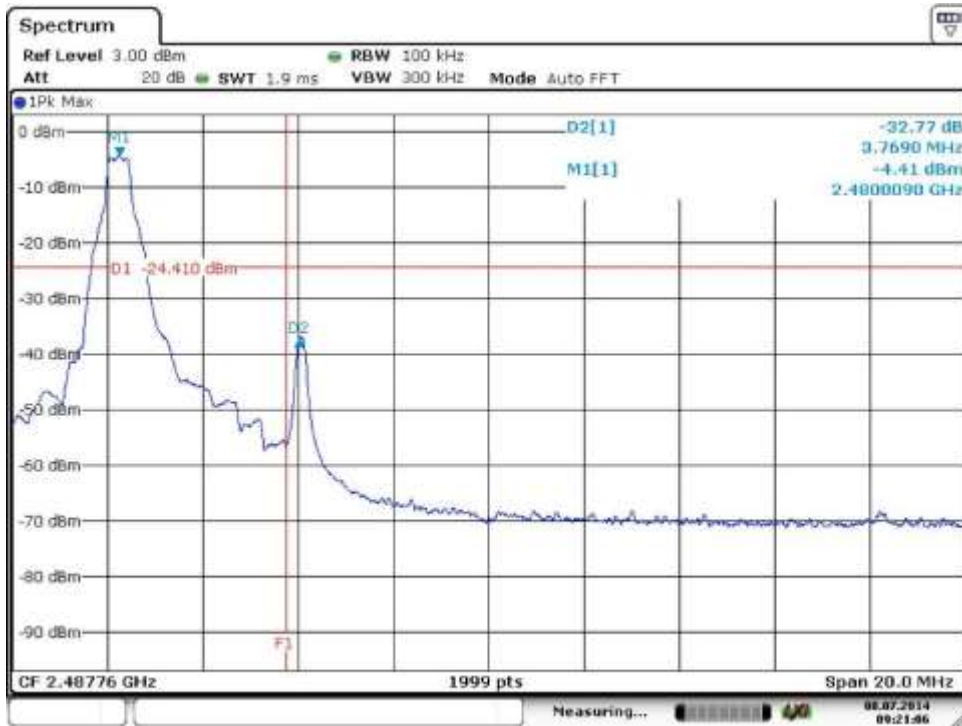
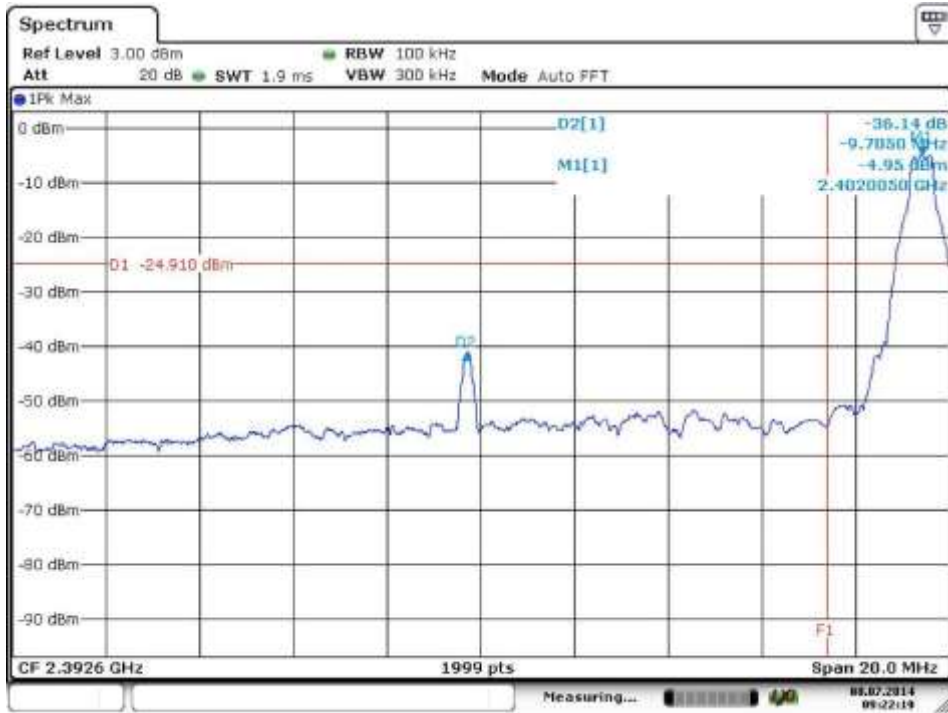
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either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

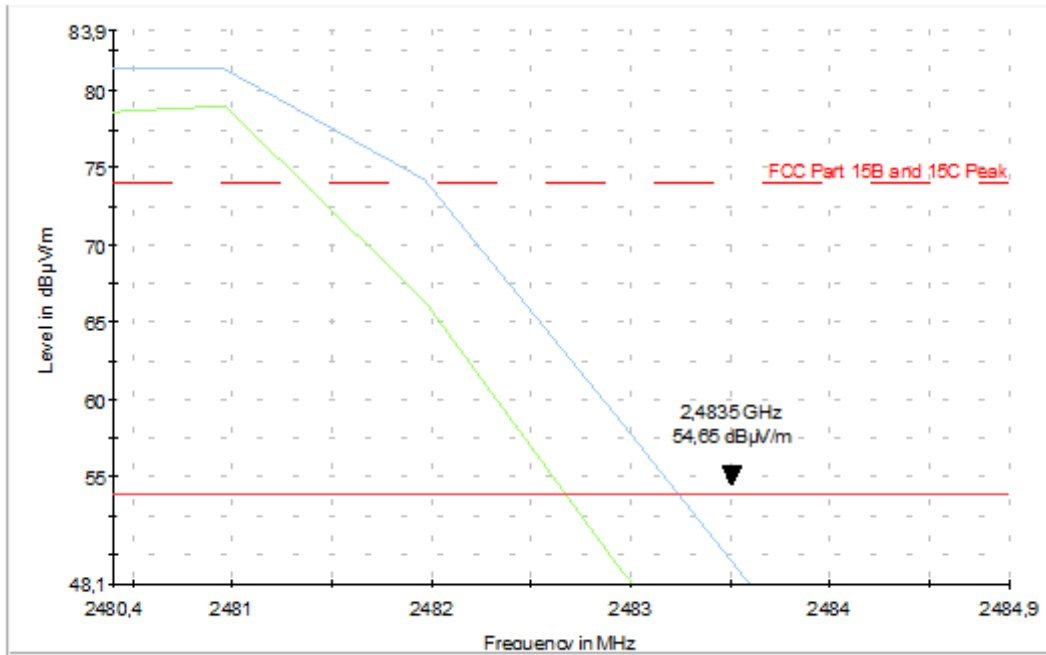
10.2 Test set-up

EUT antenna port was connected to spectrum analyser via rf-cable.
Upper band edge has a radiated plot. Radiated set up is same as in section 6.

10.3 Test data

Frequency MHz	Level dBm/100kHz	Attenuation from carrier dB	Margin dB
2392.30	-41.09	36.14	16.14
2483,77	-37.18	32.17	12.17





10.4 Test equipment

Equipment type	Manufacturer	Model	Inv. No.	Cal. due date
Spectrum analyser	Rohde & Schwarz	FSV	32594	7/31/2015
Measurement software	Rohde & Schwarz	EMC 32	--	--
Receiver	Rohde & Schwarz	ESI	32291	7/15/2014
Hornantenna	Rohde & Schwarz	HF907	32307	6/19/2015
Open Switch unit	Rohde & Schwarz	OSP130	32300	7/24/2014
Open Switch unit	Rohde & Schwarz	OSP-F7-B	32301	--

11 UNCERTAINTIES SUMMARY

The measurement uncertainty describes the overall uncertainty of the given measured value during operation of the EUT.

Measurement uncertainty is calculated in accordance with EA-4/02-1997.

The measurement uncertainty is given with a confidence of 95% (k=2).

Radiated disturbance, field strength, 30 MHz - 1000 MHz

30 to 300 MHz at 3 m	± 4,7 dB
200 to 1000 MHz at 3 m	± 4,8 dB

Radiated disturbance, field strength, 1 to 40 GHz in Semi Anechoic Chambers "Stora Hallen" and "Björkhallen"

1 to 18 GHz with filter or attenuator	± 5,4 dB
1 to 18 GHz without filter or attenuator	± 5,2 dB
18 to 26 GHz without filter or attenuator	± 5,5 dB
26 to 40 GHz without filter or attenuator	± 5,6 dB

Conducted disturbances at the antenna port on radio equipment

Frequency range 9 kHz – 1 GHz	± 0,9 dB
Frequency range 1 GHz – 7 GHz	± 1,4 dB
Frequency range 7 GHz -18GHz	± 2,4 dB
Frequency range 18 GHz -26,5GHz	± 3,0 dB
Frequency range 26,5 GHz - 40 GHz	± 3,6 dB

Output power

Analog signals, conducted:

RF-power meter	± 0,6 dB
Spectrum analyser	± 3,5 dB

Analog signals, radiated:

25 MHz - 1000 MHz	± 3,7 dB
1 GHz - 18 GHz	± 3,4 dB

Digital signals, conducted

± 0,6 dB

Digital signals, radiated:

25 MHz - 1000 MHz	± 3,7 dB
1 GHz - 18 GHz	± 3,4 dB

Peak power density

Conducted:

8593E	± 2,5 dB
8566B	± 2,7 dB

Radiated:

8593E & 8566B, 25 - 1000 MHz	± 4,5 dB
8593E & 8566B, 1 - 18 GHz	± 4,7 dB

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