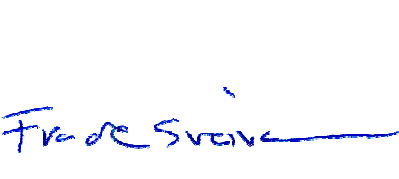
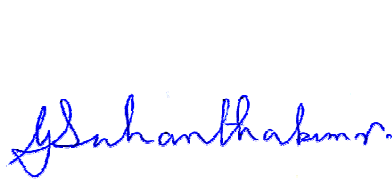


Test Report

Product	Bluetooth Transceiver in UPCS Base Station		
Name and address of the applicant	Panasonic System Networks Co., Ltd. 1-62,4-Chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan		
Name and address of the manufacturer	Panasonic System Networks Co., Ltd. 1-62,4-Chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan		
Model	KX-TGM460		
Rating	5.5V DC (AC Adaptor, 1.5A; 100-240 V AC, 50/60 Hz, 1.2-0.6 A)		
Trademark	Panasonic		
Serial number	/		
Additional information	Bluetooth 2.1, DECT 6.0		
Tested according to	FCC Part 15.247 Frequency Hopping Transmitters / Digital Transmission Systems Industry Canada RSS-247, Issue 1 Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices		
Order number	388656		
Tested in period	2016.02.16 to 2016.02.22		
Issue date	2020.01.09		
Name and address of the testing laboratory	 Instituttveien 6 Kjeller, Norway www.nemko.com	CAB Number: FCC: NO0001 ISED: NO0470 TEL: +47 22 96 03 30 FAX: +47 22 96 05 50	 
 Prepared by [Frode Sveinsen]  Approved by [G. Suhanthakumar]			
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1 INFORMATION

1.1 Test Item

Name	Panasonic
FCC ID	ACJ96NKX-TGM460
Industry Canada ID	216A-KXTGM460
Model/version	KX-TGM460
Serial number	/
Hardware identity and/or version	PNLB2574xx
Software identity and/or version	SW301
Frequency Range	2402 – 2480 MHz
Number of Channels	Minimum 20 and Maximum 79 (Adaptive Frequency Hopping)
Operating Modes	Bluetooth Headset Mode
Type of Modulation	Digital (GFSK)
User Frequency Adjustment	None
Conducted Output Power	0.0076 Watts (Peak)
Type of Power Supply	AC Adaptor Model PNLV236
Antenna Connector	None
Antenna Diversity Supported	No
Desktop Charger	N/A

1.2 Description of Tested Device

The EUT is a Bluetooth Module in a DECT Base station.

The BT module in KX-TGM460 is identical to the BT Module in KX-TGE270 (FCC ID: ACJ96NKX-TGE270), all conducted test results are from Nemko Test Report No: 248567-3 for KX-TGE270.

All radiated tests have been performed on a KX-TGM430 (FCC ID: ACJ96NKX-TGM430). All test results are from Nemko Report No. 304059-03.

This model KX-TGM460 is identical to the model KX-TGM430 (FCC ID: ACJ96NKX-TGM430), except the AC Adaptor is different. The BT module in KX-TGM460 is identical to the BT module in the model KX-TGM430.

See description of similarity in below table.

Description	US Model	Canada Model	FCC ID	IC ID	Comment
DECT Base with Speakerphone	KX-TGM460	KX-TGM460C	ACJ96NKX-TGM460	216A-KXTGM460	Bluetooth and PNLV236
	KX-TGM450	KX-TGM450C	ACJ96NKX-TGM450	216A-KXTGM450	PNLV236, No Bluetooth
	KX-TGM430	KX-TGM430C	ACJ96NKX-TGM430	216A-KXTGM430	Bluetooth and PNLV226
	KX-TGM420	KX-TGM420C	ACJ96NKX-TGM420	216A-KXTGM420	PNLV226, No Bluetooth
DECT Handset	KX-TGMA45	KX-TGMA45C	ACJ96NKX-TGMA45	216A-KXTGMA45	50dB Amplified volume
	KX-TGMA44	KX-TGMA44C	ACJ96NKX-TGMA44	216A-KXTGMA44	40dB Amplified volume

The only difference between the Base Stations are the BT Module and the AC adaptor.

All models have the same PCB, but BT module is removed on models without BT Module.

1.3 Normal test condition

Temperature:	20.2 – 22.6 °C
Relative humidity:	22.1 – 35.0 %
Normal test voltage:	120 V AC, 60 Hz

The values are the limit registered during the test period.

1.4 Test Engineer(s)

Frode Sveinsen / Thanh Tran

1.5 Test Equipment

See list of test equipment in clause 5.

2 TEST REPORT SUMMARY

2.1 General

All measurements are traceable to national standards.

The tests were conducted for the purpose of demonstrating compliance with FCC CFR 47 Part 15, paragraph 15.247 and Industry Canada RSS-247 Issue 2.

Tests were performed in accordance with ANSI C63.4-2014 and ANSI C63.10-2013.

Radiated tests were made in a semi-anechoic chamber at measuring distances of 3m and 10m.

A description of the test facility is on file with the FCC and Industry Canada.

☒ New Submission

☒ Production Unit

☐ Class II Permissive Change

☐ Pre-production Unit

DSS Equipment Code

☐ Family Listing



THIS TEST REPORT APPLIES ONLY TO THE ITEM(S) AND CONFIGURATIONS TESTED.

Deviations from, additions to, or exclusions from the test specifications are described in "Summary of Test Data".

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2.2 Test Summary

Name of test	FCC Part 15 reference	RSS-247 Issue 2, RSS-GEN Issue 5 reference	ANSI C63.10-2013 Reference	Result
Supply Voltage Variations	15.31(e)	6.11 (RSS-GEN)	5.13	Complies
Antenna Requirement	15.203	6.8 (RSS-GEN)	5.8	Complies
Power Line Conducted Emission	15.107(a) 15.207(a)	7.2 / 8.8 (RSS-GEN)	6.2	Complies
Number of Hopping Frequencies	15.31(m)	5.1 (6)	7.8.3 (FHSS)	
Channel Separation and 20dB BW	15.247(a)(1)	5.1 (4)	7.8.2 (FHSS)	Complies ²
Pseudorandom Hopping Algorithm	15.247(a)(1)	5.1 (3)	N/A (FHSS)	Complies ²
Time of Occupancy	15.247(a)(1)(iii)	5.1 (5)	7.8.4 (FHSS)	Complies ²
Occupied Bandwidth	15.247(a)(1)	5.1 (7)	6.9.2 FHSS)	Complies ²
Occupied Bandwidth (99% BW)	N/A	6.7 (RSS-GEN)	6.9.3	Complies ²
Peak Power Output	15.247(b)	5.4 (5)	11.9.1.1	Complies ²
Spurious Emissions (Antenna Conducted)	15.247(c)	5.5	6.7 7.8.6 (FHSS) 7.8.8 (FHSS)	Complies ¹
Spurious Emissions (Radiated)	15.247(c) 15.109(a) 15.209(a)	5.5 6.13 (RSS-GEN) 8.9 (RSS-GEN)	6.3, 6.5, 6.6, 6.10	Complies

¹ The tested equipment has integrated antennas only

² All Conducted test results are from Nemko Test report No 248567-3 and were tested on KX-TGE270

2.3 Comments

The measurements were done with the EUT powered by 120 V AC. It was checked that power variations between 85% and 115% did not have any influence on the measurements.

All ports were populated during spurious emission measurements.

3 TEST RESULTS

3.1 Power Line Conducted Emissions

Para. No.: 15.207 (a)

Test Performed By: Thanh Tran

Date of Test: 22-Feb-2016

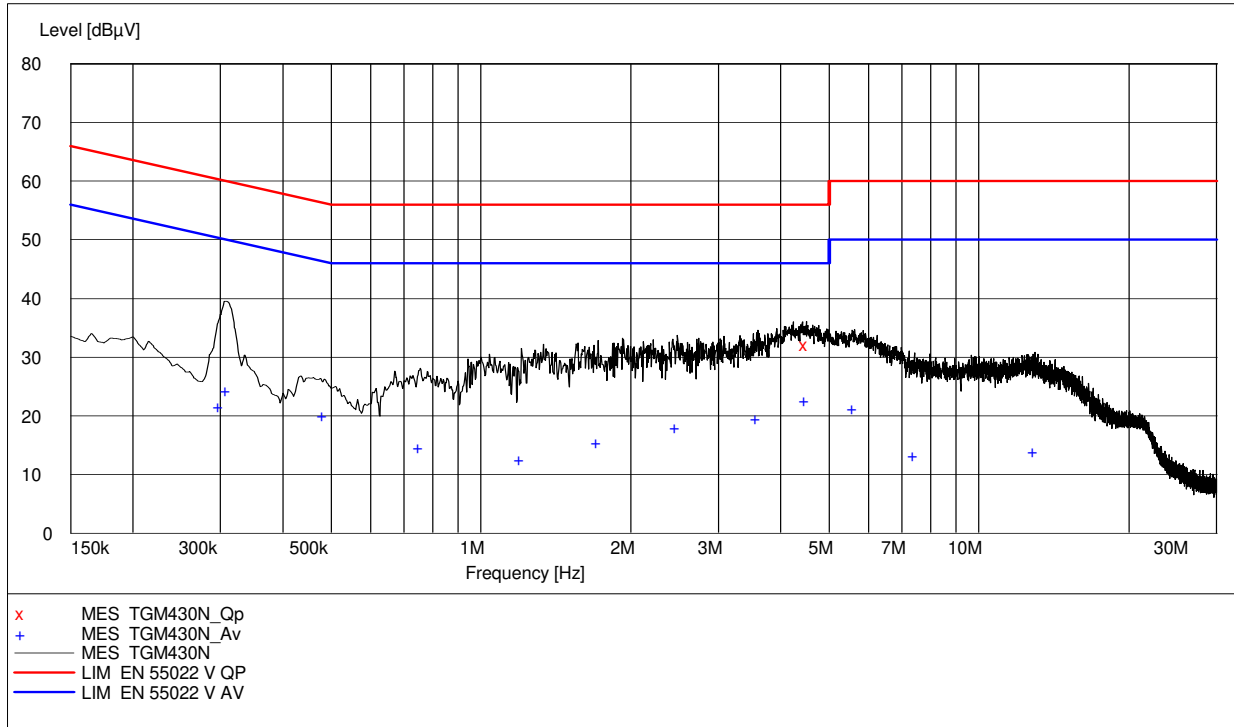
Measurement procedure: ANSI C63.4-2014 using 50 μ H/50 ohms LISN.

Test Results: Complies.

Measurement Data: See attached graph, (Peak detector).

Highest measured value (L1 and N):

Frequency [MHz]	Level [dBuV]	Af [dB]	Limit [dBuV]	Margin [dB]	Det	Position	Verdict [Pass/Fail]
4.500000	32.20	10.50	56.00	23.80	QP	N	Pass
0.300000	21.80	10.50	50.20	28.40	AV	N	Pass
0.310000	24.50	10.50	50.00	25.50	AV	N	Pass
0.485000	20.30	10.30	46.30	26.00	AV	L1	Pass
0.755000	14.80	10.20	46.00	31.20	AV	N	Pass
1.205000	12.80	10.40	46.00	33.20	AV	N	Pass
1.720000	15.60	10.40	46.00	30.40	AV	N	Pass
2.480000	18.30	10.40	46.00	27.70	AV	N	Pass
3.600000	19.70	10.40	46.00	26.30	AV	N	Pass
4.500000	22.90	10.50	46.00	23.10	AV	N	Pass
5.630000	21.40	10.50	50.00	28.60	AV	N	Pass
7.445000	13.40	10.60	50.00	36.60	AV	L1	Pass
12.965000	14.10	10.70	50.00	35.90	AV	N	Pass



3.2 Channel Separation and 20dB Bandwidth

Para. No.: 15.247 (a)(1)

ISED RSS-247 Issue 2, Clause 5.1 (b)

Measurement procedure: ANSI C63.10-2013 Clause 7.8.2

Test Results: Complies

Measurement Data:

Channel Separation:	1.0 MHz
Nominal value for Channel Separation	1.0 MHz
20 dB BW of hopping channel, 2402MHz:	923.1 kHz
20 dB BW of hopping channel, 2441MHz:	921.1 kHz
20 dB BW of hopping channel, 2480MHz:	921.1 kHz

See attached plots

Requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

or:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the system operates with an output power no greater than 125 mW.

3.3 Pseudorandom Hopping Algorithm

Para. No.: 15.247 (a)(1)

ISED Canada RSS-247 Issue 2, Clause 5.1

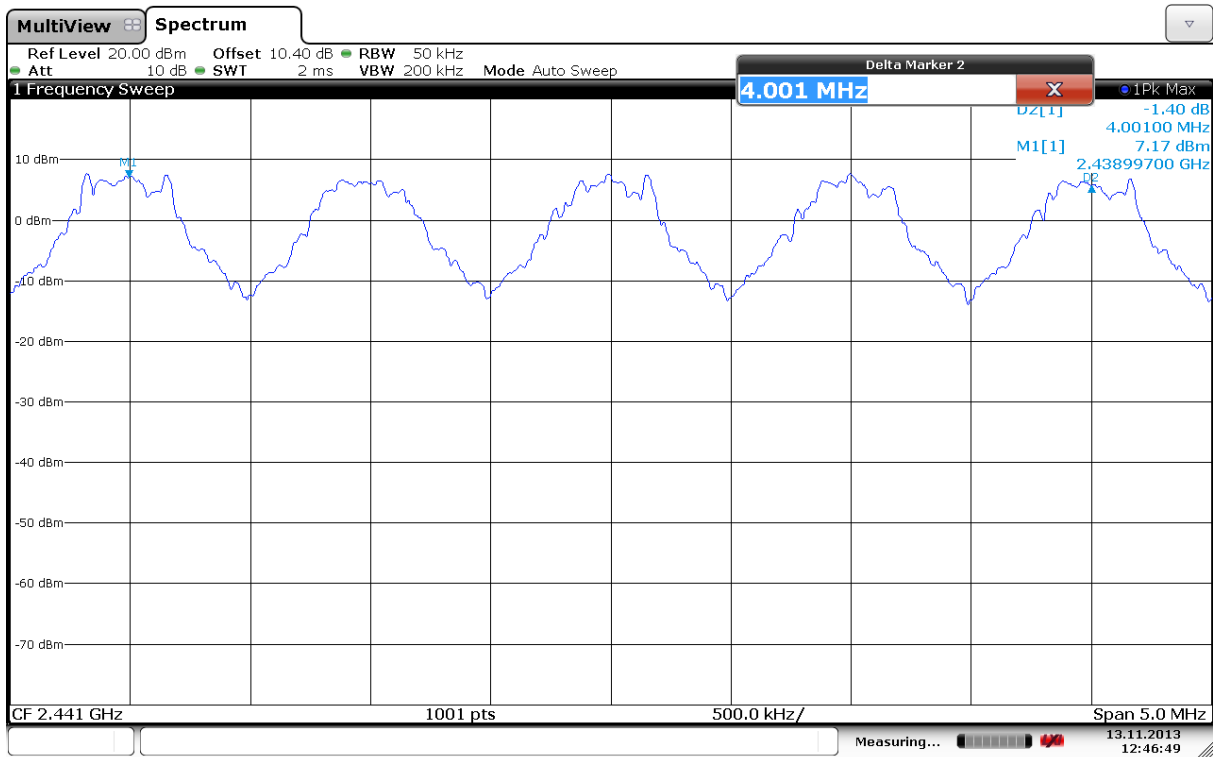
Test Results: Complies

Measurement Data: The EUT follows the Bluetooth standard.

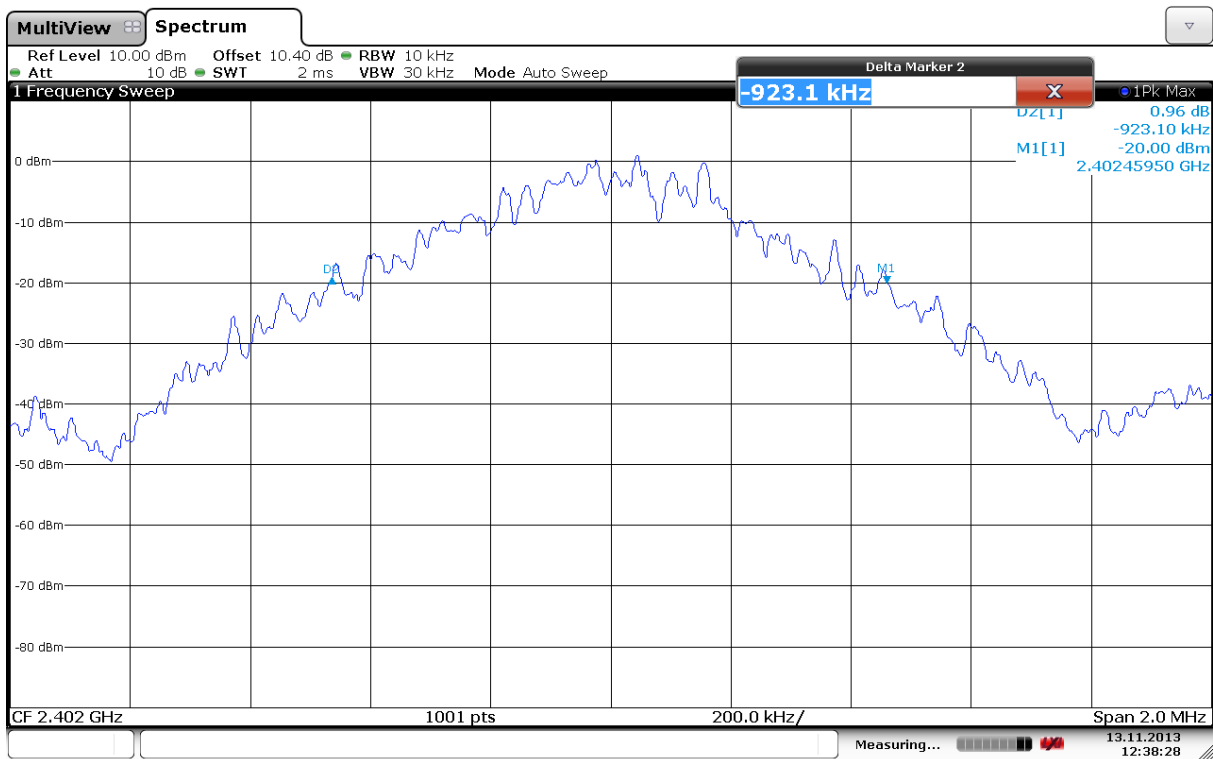
Requirements:

The channel frequencies shall be selected from a pseudorandom ordered list of hopping frequencies. Each frequency must be used equally by the transmitter.

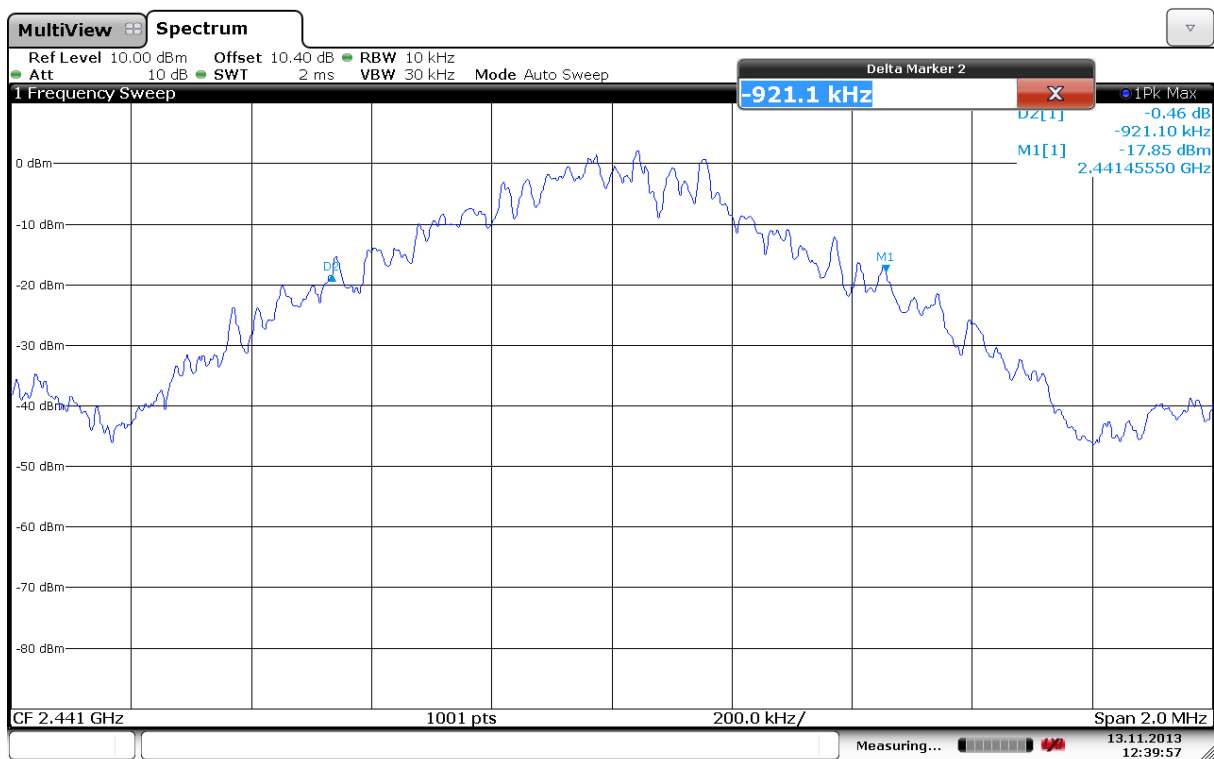
No requirements for Digital Transmission Systems.



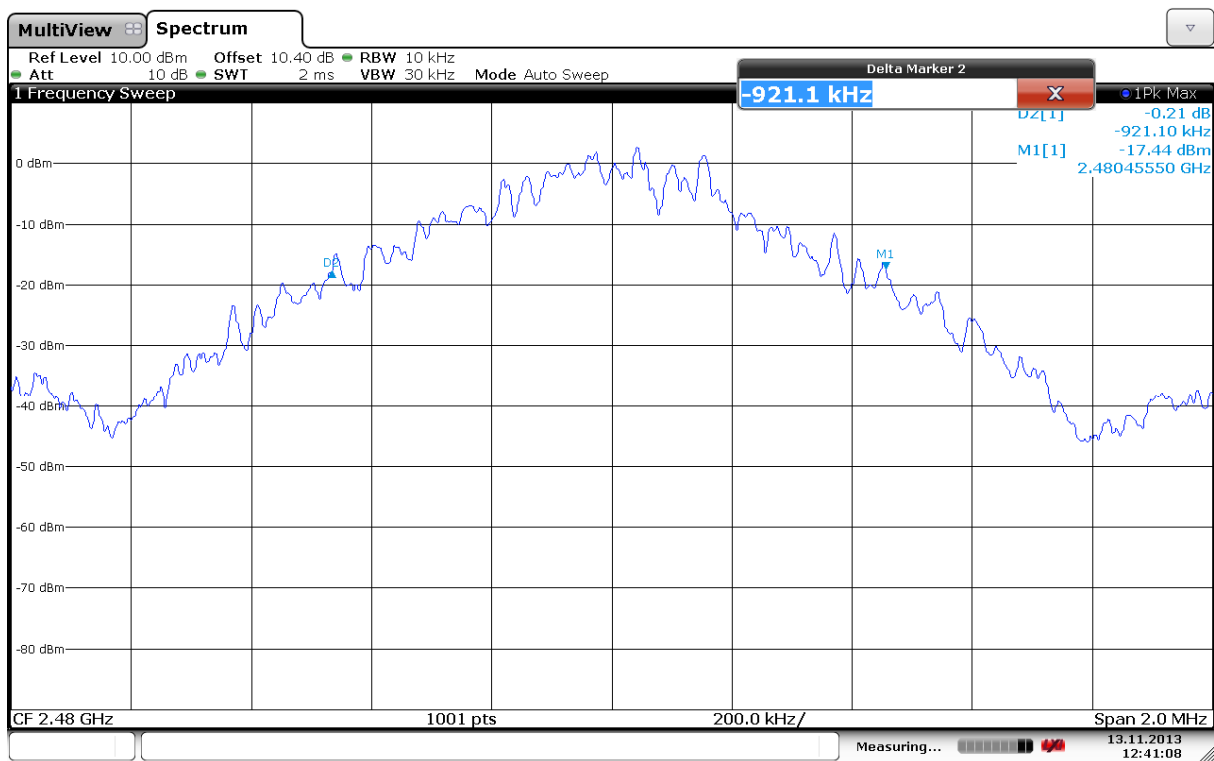
Channel Separation



20dB Bandwidth, 2402 MHz



20dB Bandwidth, 2441 MHz



20dB Bandwidth, 2480 MHz

3.4 Occupancy Time

Para. No.: 15.247 (a)(1)(iii)

ISED Canada RSS-247 Issue 2, Clause 5.1 (c)

Measurement procedure: ANSI C63.10-2013 Clause 7.8.4

Test Results: Complies

Measurement Data:

Minimum Number of RF Channels:	20
Maximum Number of RF Channels:	79
Maximum Length of RF Burst pr. channel	2.90 ms
Time between RF Burst on same RF Channel	75.0 ms (20 ch)
	296.25 ms (79 ch)
Time of Occupancy (20 and 79 ch mode)	309.3 ms

20 Ch Mode:

Time between RF burst on same channel: $3.75 \times 20 \text{ ms} = 75.0 \text{ ms}$

Time of occupancy: $(2.90 \times 400 \times 20) / 75.0 = 309.3 \text{ ms}$

79 Ch Mode:

Time between RF burst on same channel: $3.75 \times 79 \text{ ms} = 296.25 \text{ ms}$

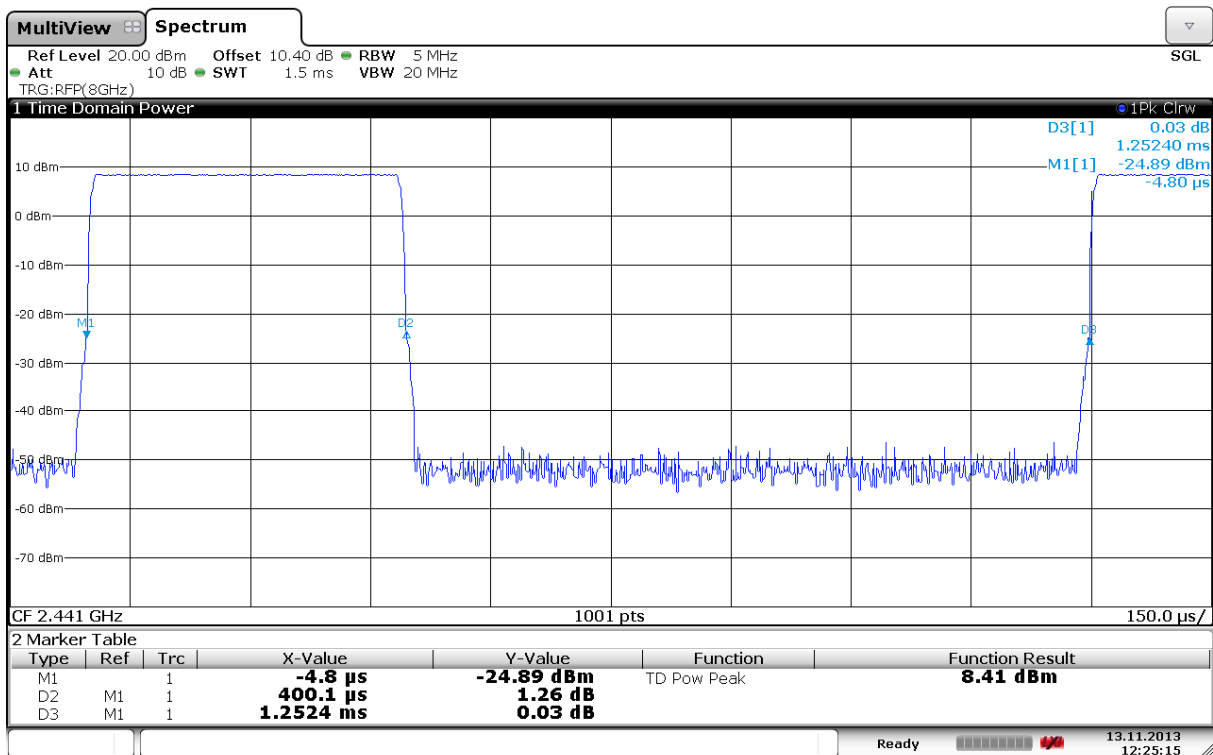
Time of occupancy: $(2.90 \times 400 \times 79) / 296.25 = 309.3 \text{ ms}$

See attached graph.

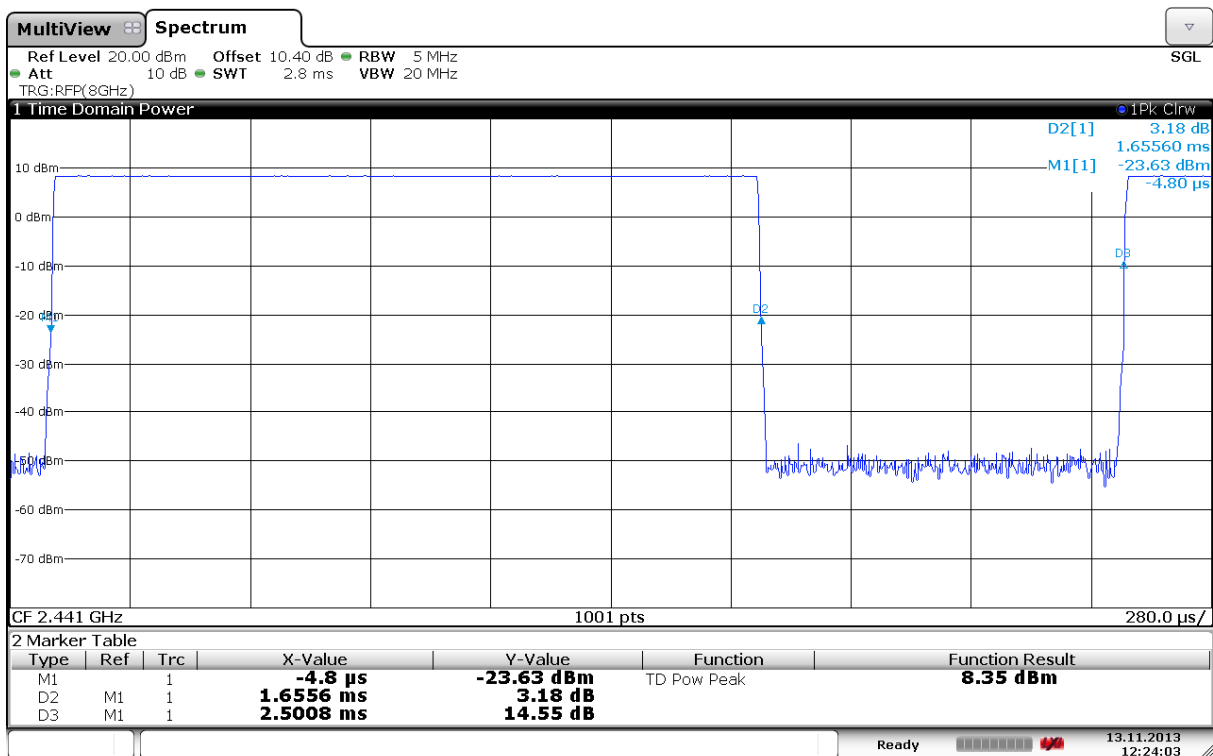
Requirements:

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

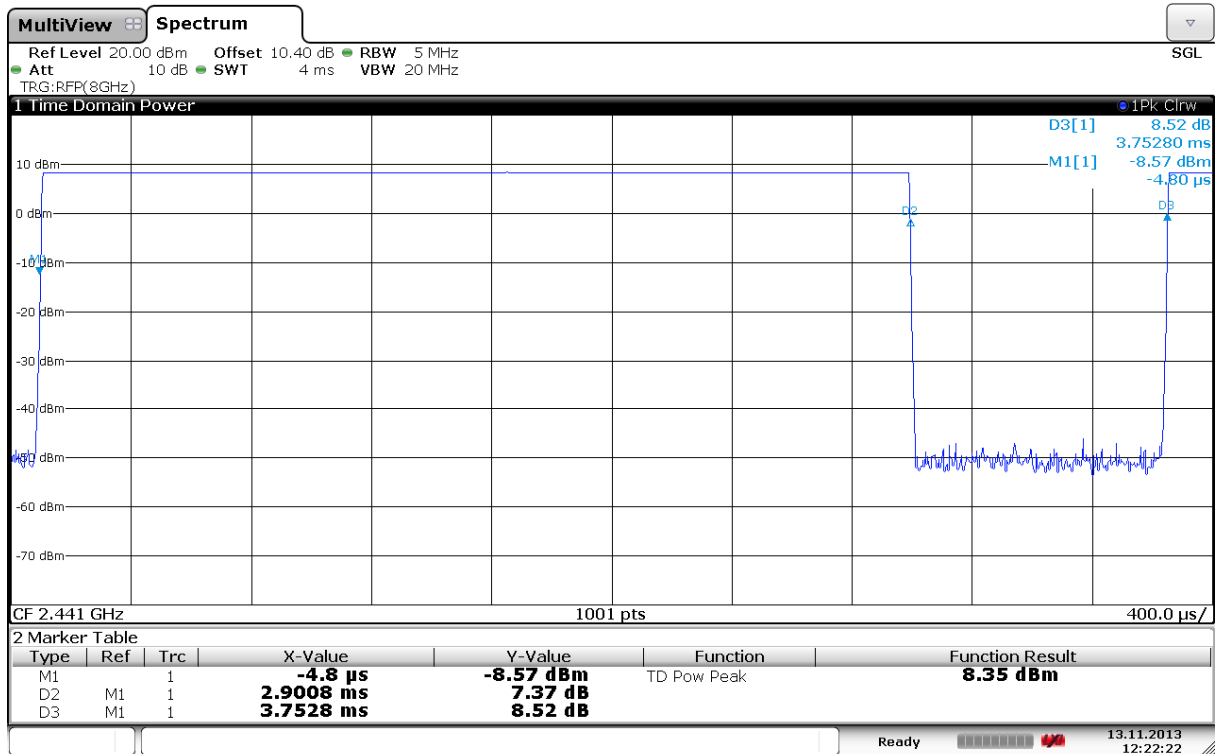
No requirements for Digital Transmission Systems.



Burst Length DH1



Burst Length DH3



Burst Length DH5

3.5 Occupied Bandwidth (99% BW) and Hopping Bandwidth

Para. No.: 15.247 (a)(1)(iii)

ISED Canada RSS-247 Issue 2, Clause 5.1

ISED Canada RSS-GEN Issue 5, Clause 6.7

Measurement procedure: ANSI C63.10-2013 Clause 6.9.3 / 7.8.3

Test Results: Complies

Measurement Data:

Number of RF Channels in use:	20 or 79 RF channels in use
Channel Centre Frequencies:	The channels are centered at each full MHz from 2402 to 2480 MHz
Occupied Bandwidth (99%):	869 kHz (@ch39, 2441 MHz)

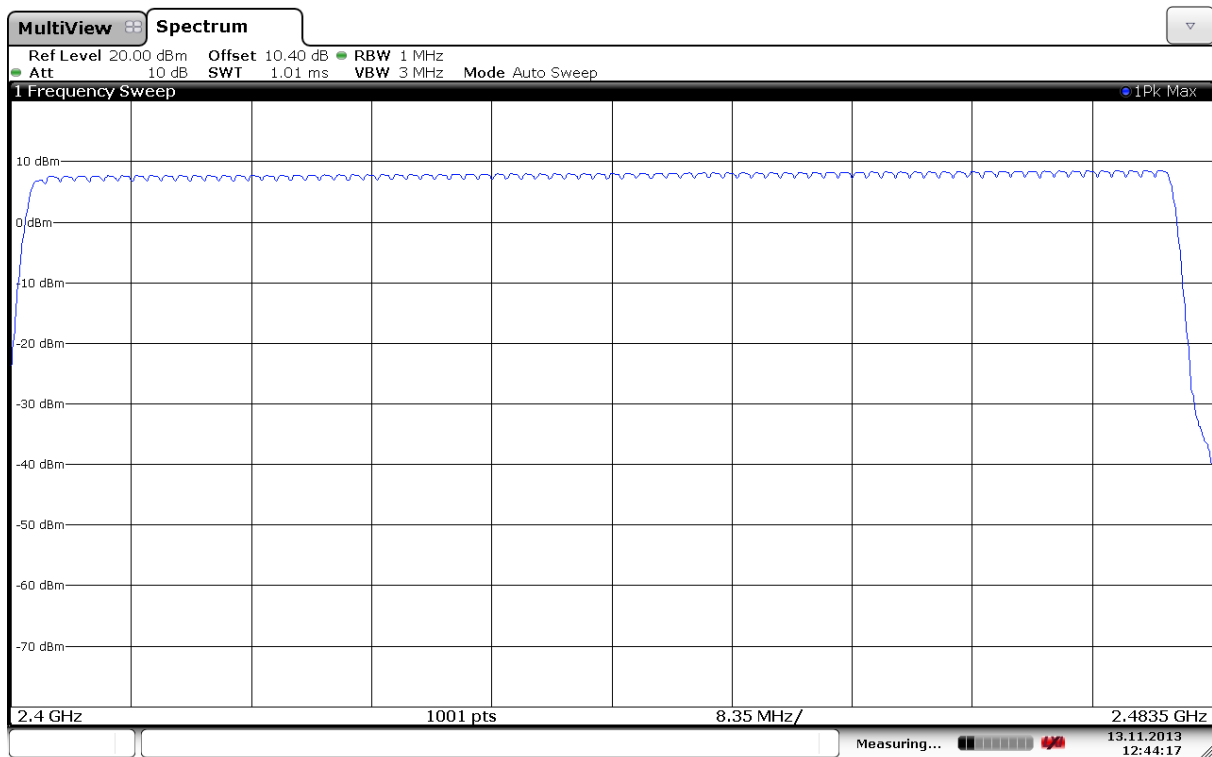
See attached plots.

Requirements:

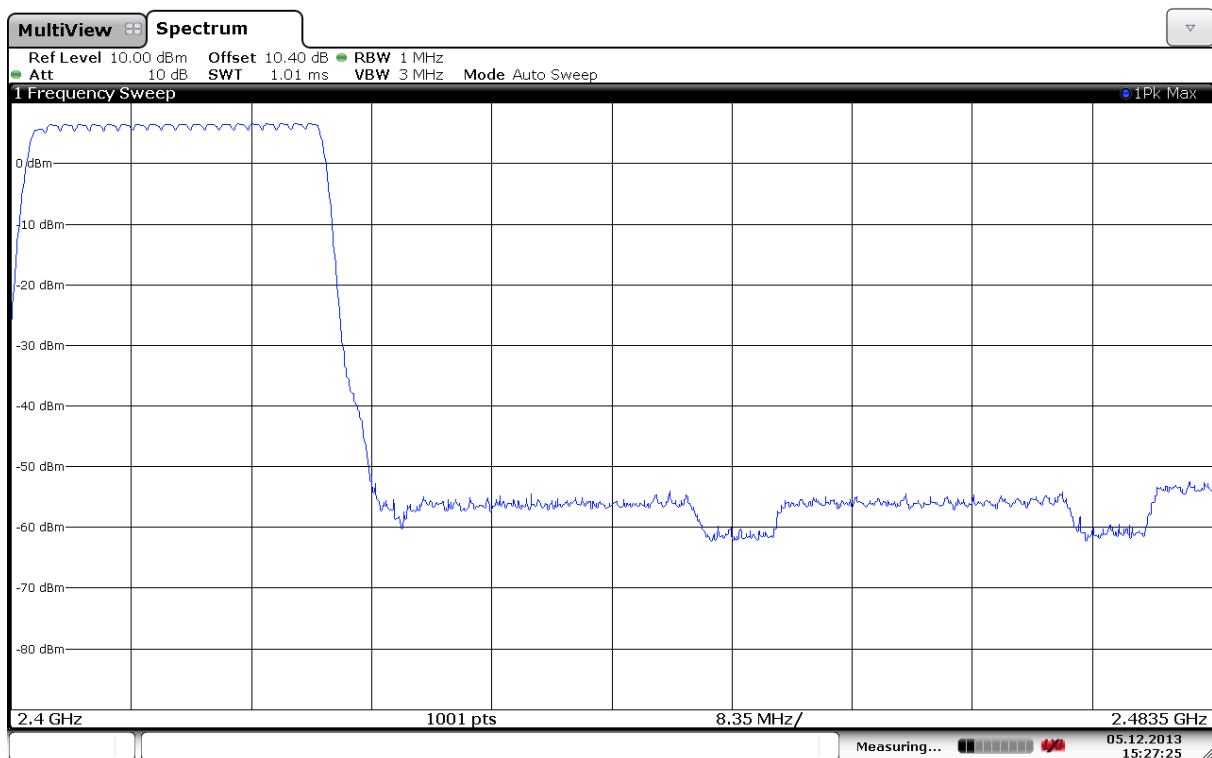
Frequency hopping systems in the 2400 - 2483.5 MHz band shall use at least 15 non-overlapping channels.
No requirements for bandwidth for this frequency band.

No requirements for Digital Transmission Systems.

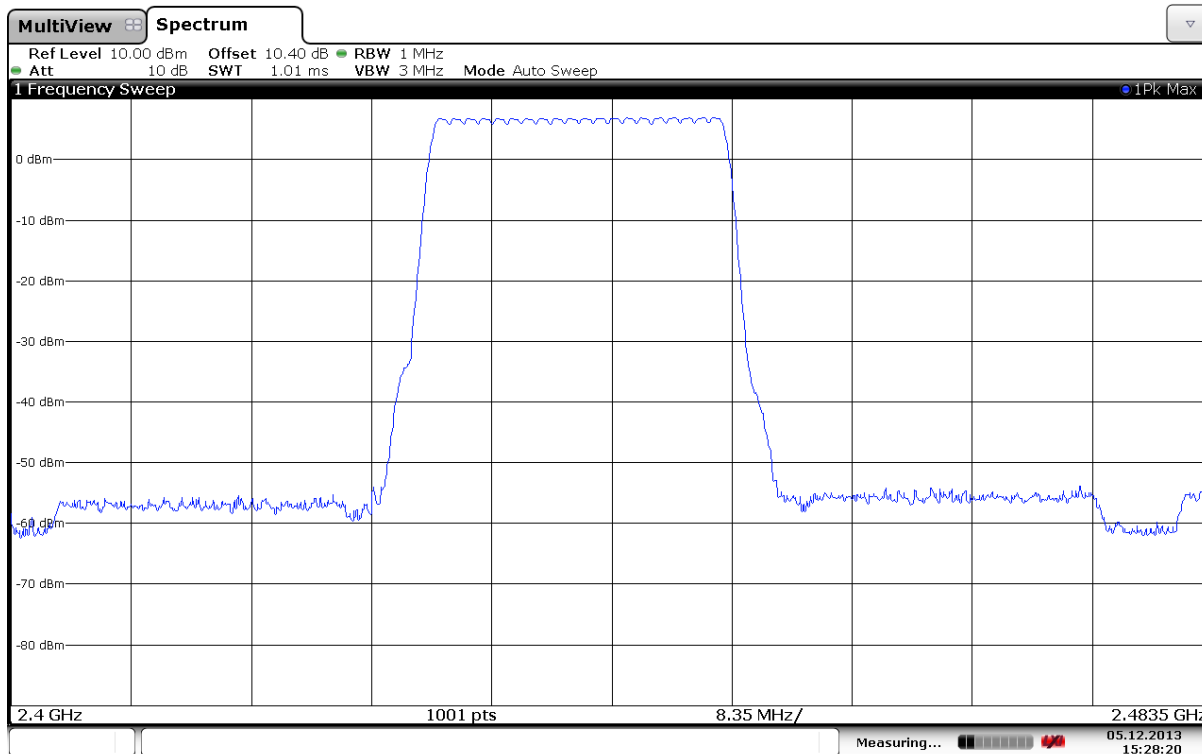
No requirement for 99% BW, reported for information only.



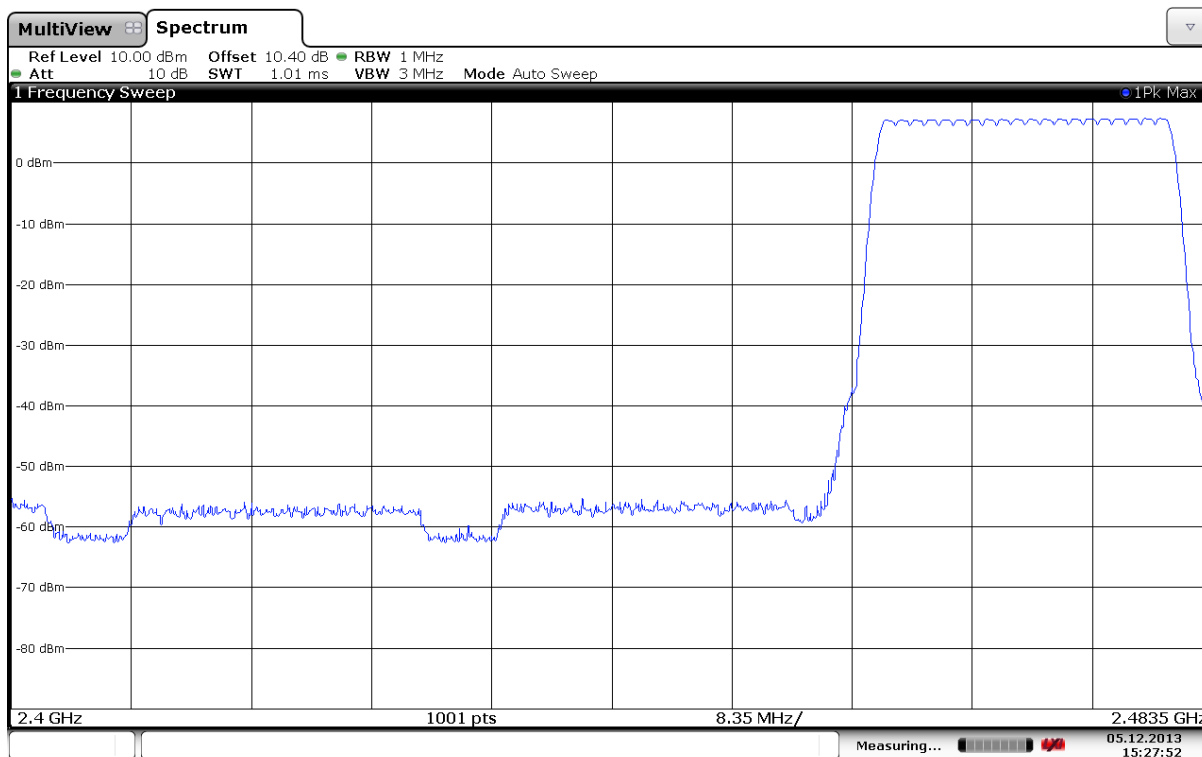
RF Channels in Use, 79 Ch



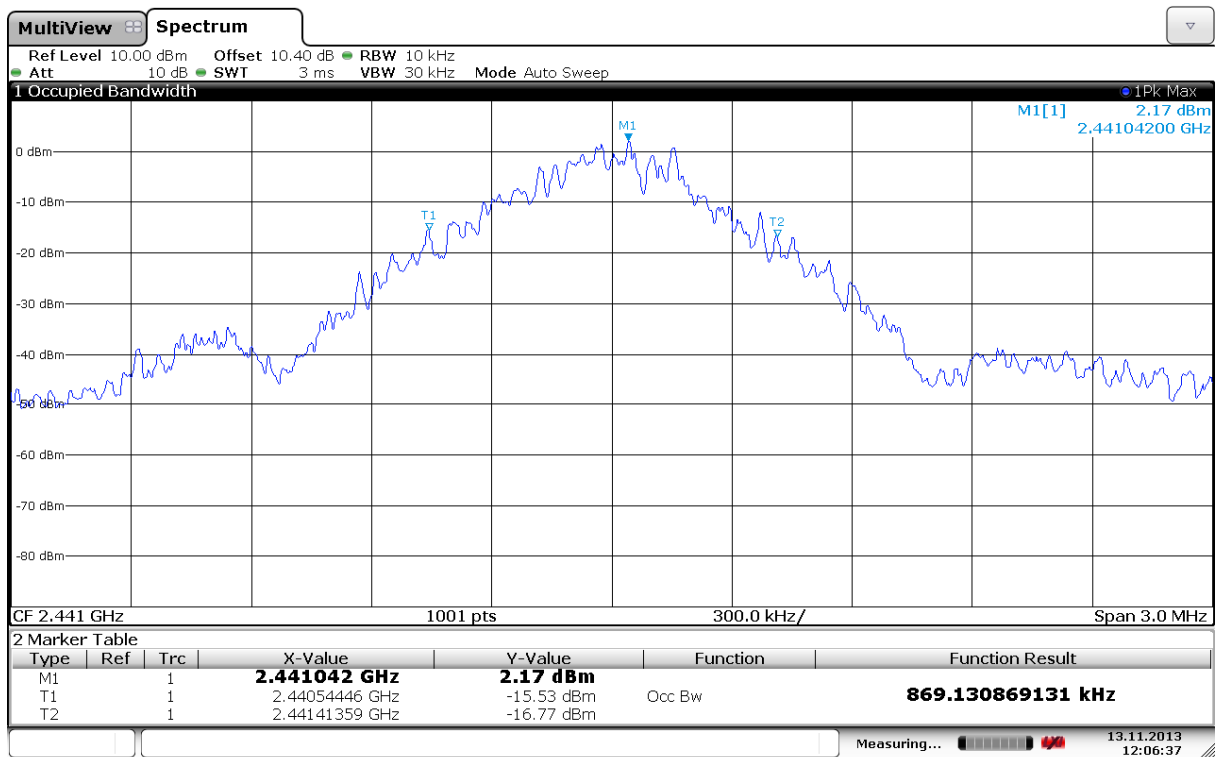
RF Channels in Use, 20 Ch, Low



RF Channels in Use, 20 Ch, Mid



RF Channels in Use, 20 Ch, High



99% Occupied Bandwidth, Mid Channel

3.6 Peak Power Output

Para. No.: 15.247 (b)

ISED Canada RSS-247 Issue 2, Clause 5.4

Measurement procedure: ANSI C63.10-2013 Clause 11.9.1.2

Test Results: Complies

Measurement Data:

	2402 MHz	2441 MHz	2480 MHz
Peak Power (dBm)	7.3	8.4	8.8
Peak Power (Watts)	0.0053	0.0069	0.0076
Field Strength (dBμV/m)	92.9	96.0	96.1
EIRP, Calculated (Watts)	0.00058	0.00120	0.00123
Antenna gain (dBi)	-9.6	-7.6	-7.9

Antenna gain = $10 \cdot \log(\text{EIRP} / \text{Conducted power})$ dBi

EIRP is calculated from measured field strength by the formulas in KDB 412172 D01 Determining ERP and EIRP v01r01.

See attached plots

Detachable antenna?

☐ Yes ☒ No

If detachable, is the antenna connector non-standard?

☐ Yes ☐ No

Type of antenna connector: N/A

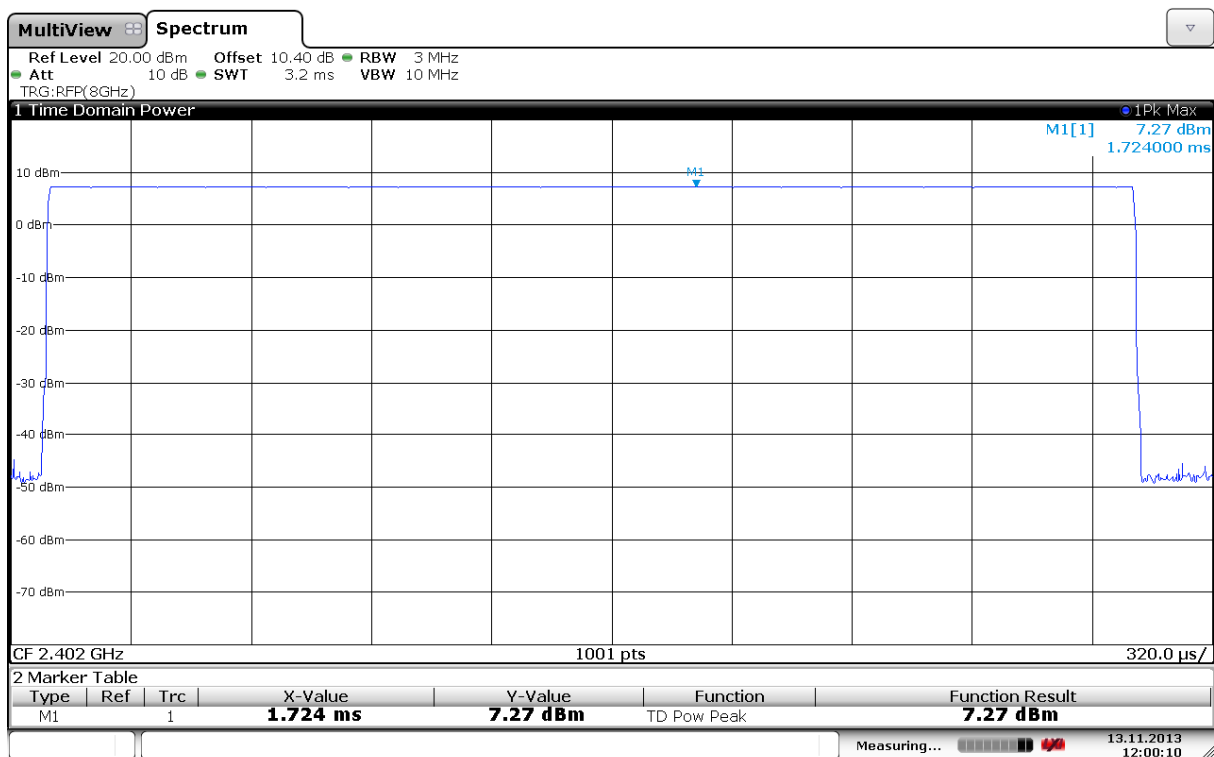
Requirements:

The maximum peak output power shall not exceed the following limits:

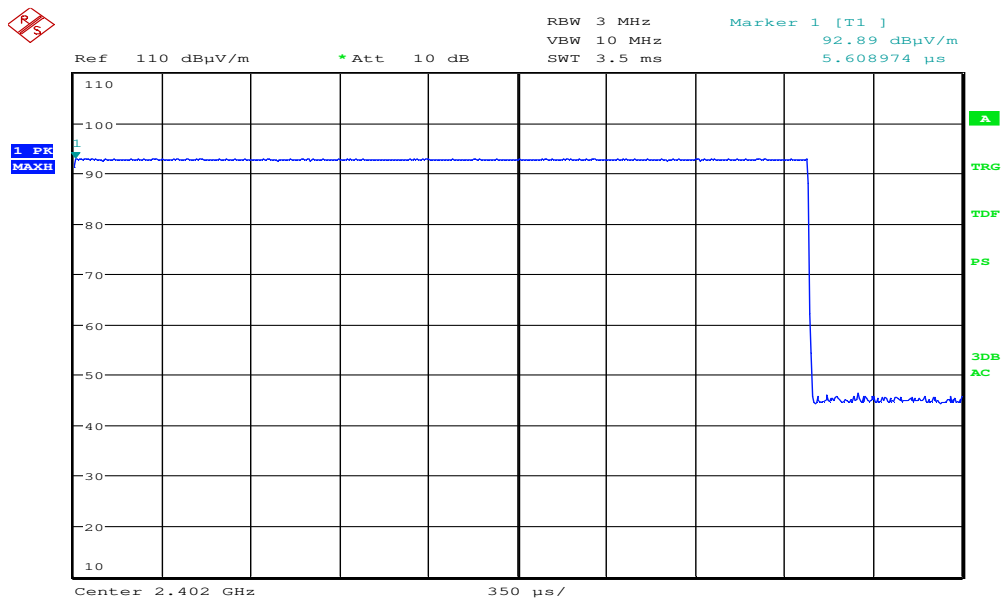
For frequency hopping systems employing at least 75 hopping channels: 1 Watt

For all other frequency hopping systems in the 2400 - 2483.5 MHz band: 0.125 Watts

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced below the stated value above by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

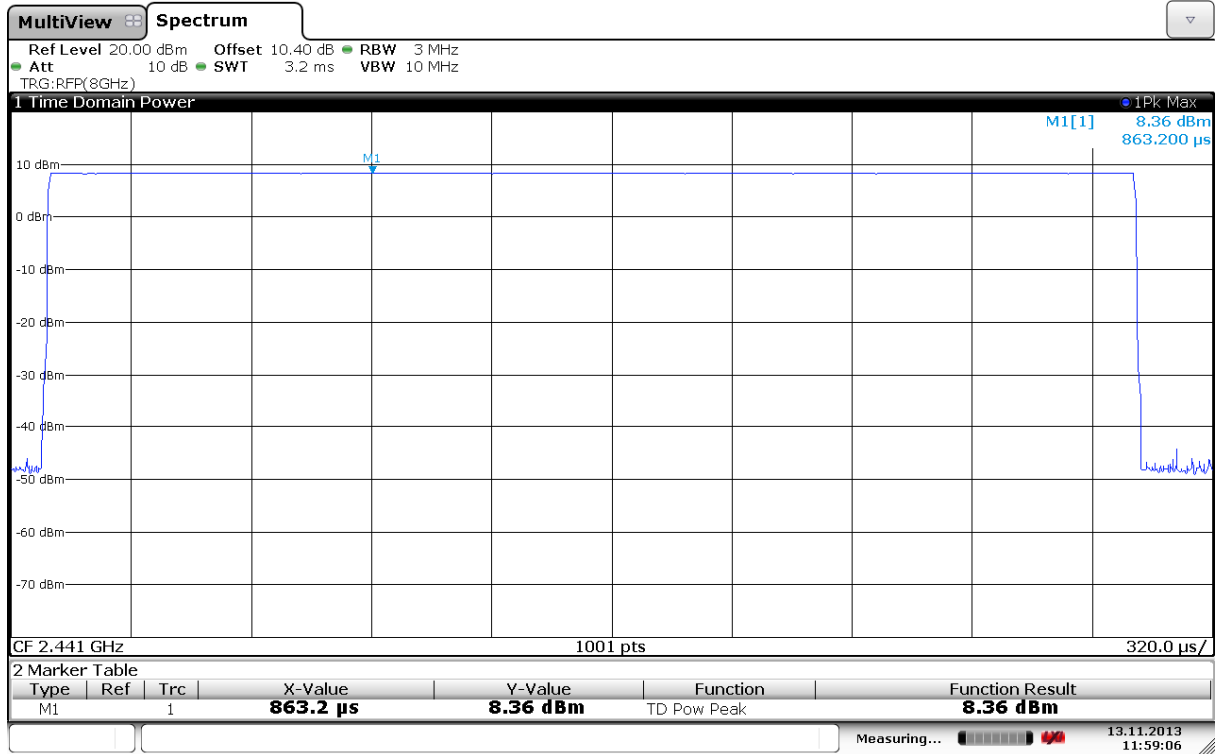


Conducted Power, 2402 MHz

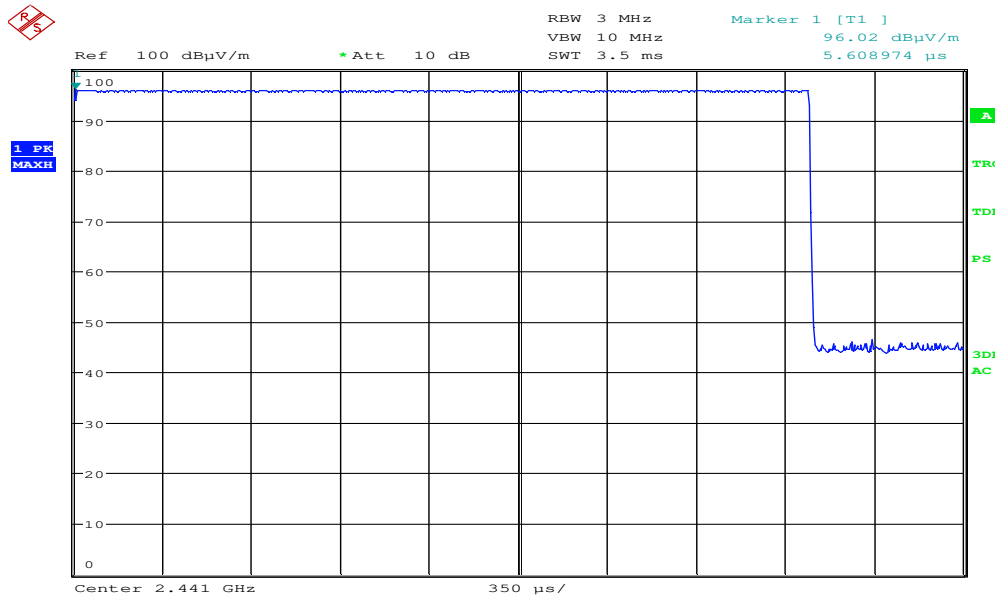


Date: 16.FEB.2016 12:44:40

Radiated Power, 2402 MHz (HP)

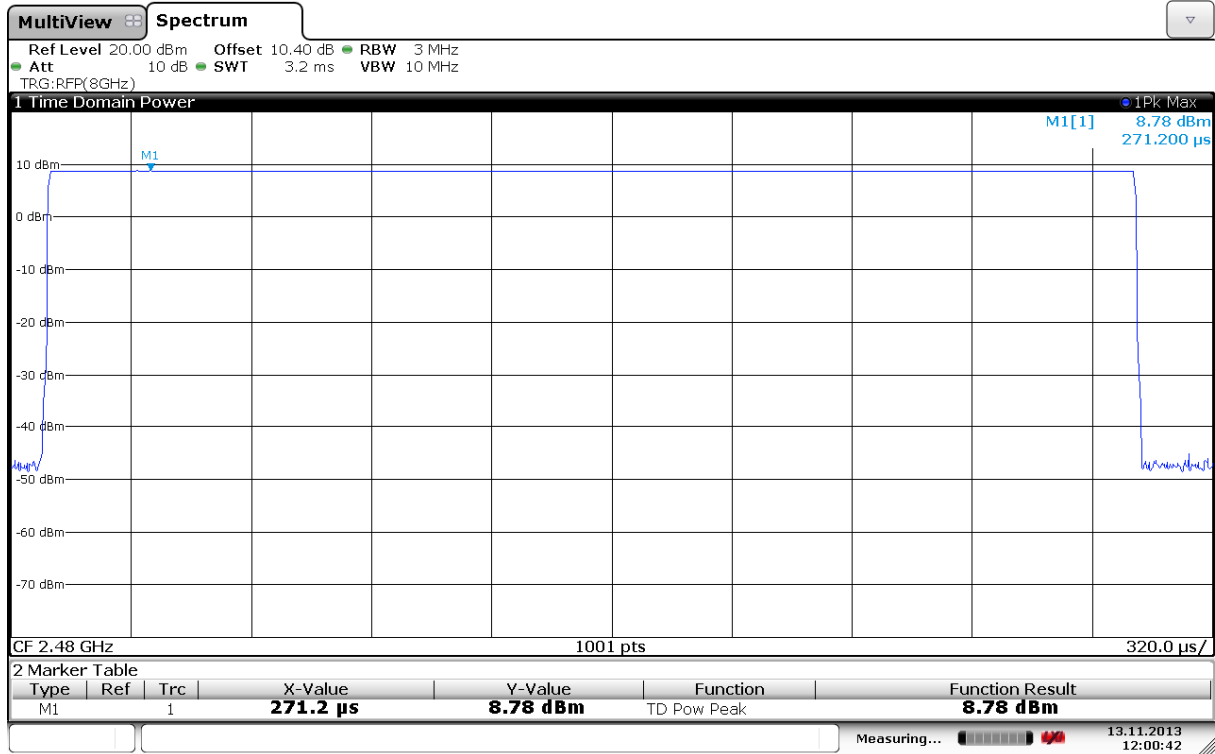


Conducted Power, 2441 MHz

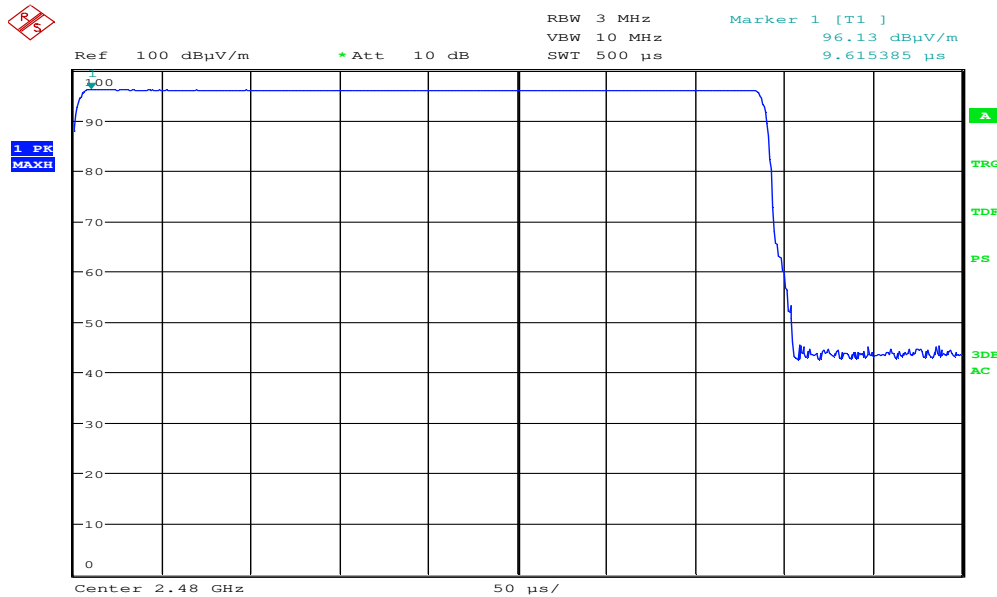


Date: 16.FEB.2016 13:17:25

Radiated Power, 2441 MHz (HP)



Conducted Power, 2480 MHz



Date: 16.FEB.2016 13:30:32

Radiated Power, 2480 MHz (HP)

3.7 Spurious Emissions (Radiated)

FCC Part 15.209 (a)

ISED Canada RSS-GEN Issue 5, Clause 7.3 / 8.9

Measurement procedure: ANSI C63.10-2013 Clause 11.12

Test Results: Complies

Measurement Data:

Band-Edge Spurious Emissions

	Measured field strength (dBμV/m)		Limit	Margin	
	2390 MHz	2483.5 MHz	dBμV/m	dB	
Peak Detector	42.2	54.8	74	31.6	19.2
Average Detector	22.2	34.8	54	31.6	19.2

Average Detector values are measured with Peak Detector and corrected for Duty Cycle.

See attached plots.

Duty Cycle Correction Factor Calculation:

Duty Cycle = slot length / (frame length * number of hopping channels)

Duty Cycle Correction factor = $-20 \times \log(\text{Duty Cycle}) > 20 \text{ dB}$

Maximum Duty Cycle Correction Factor according to Para 15.35 (b): 20 dB

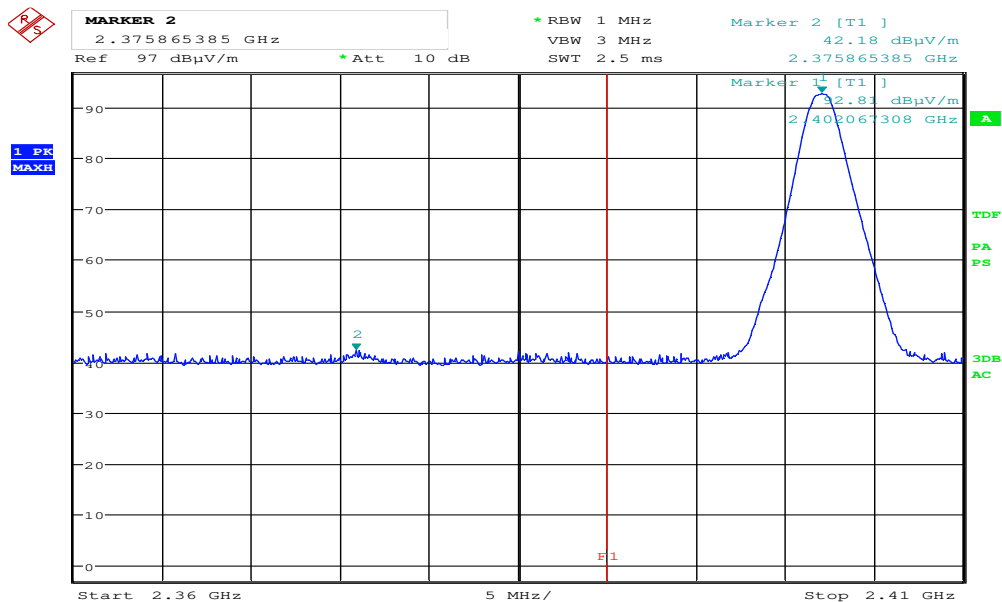
RF conducted power to 25 GHz see attached plots.

Maximum RF level outside operating band:

RF ch 00: >50 dB/C, margin >30 dB

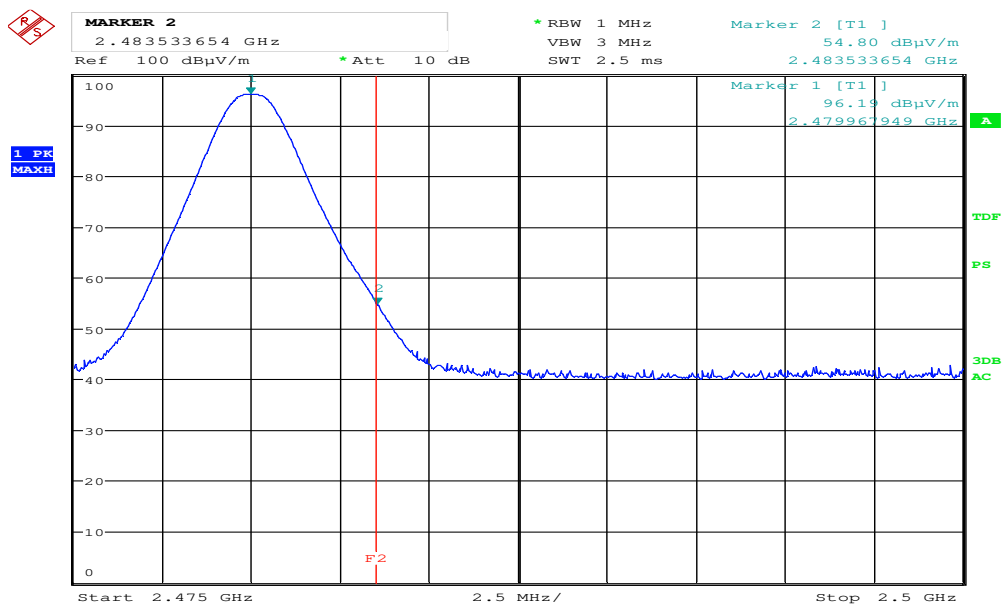
RF ch 39: >50 dB/C, margin >30 dB

RF ch 78: >50 dB/C, margin >30 dB



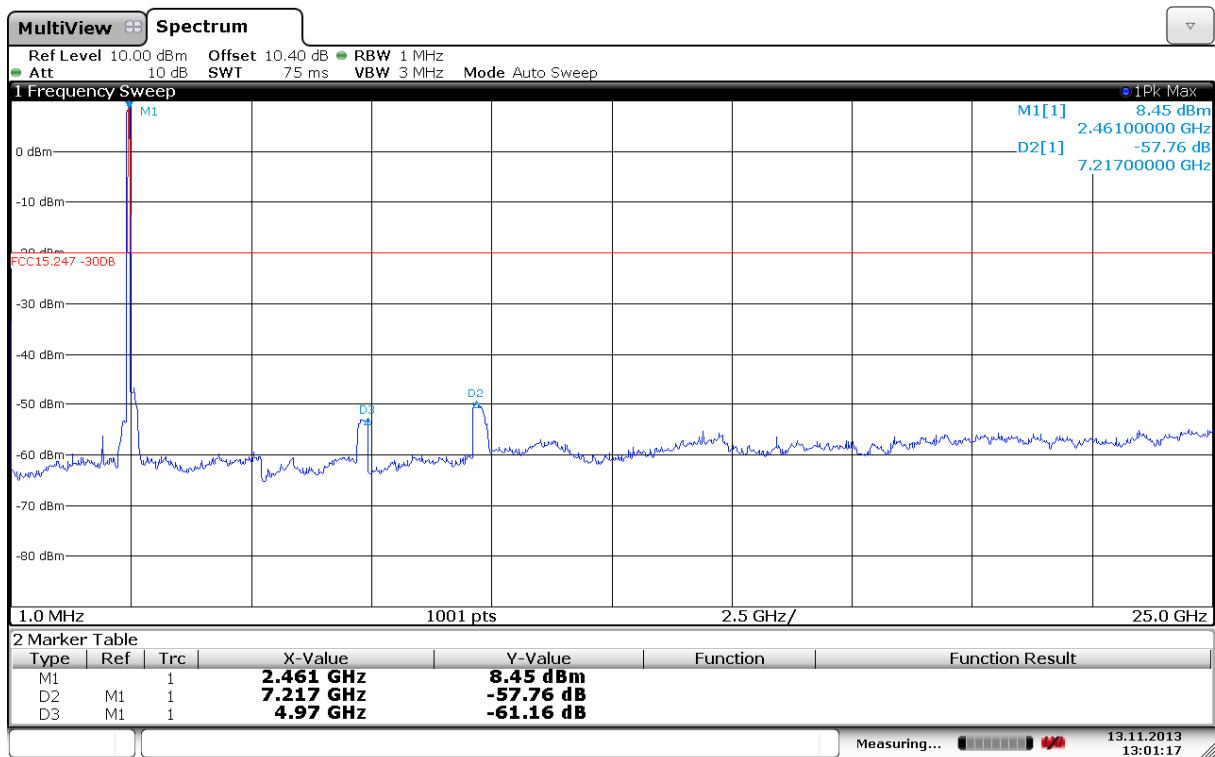
Date: 16.FEB.2016 12:47:08

Lower Band Edge, Radiated, 2402 MHz, Peak

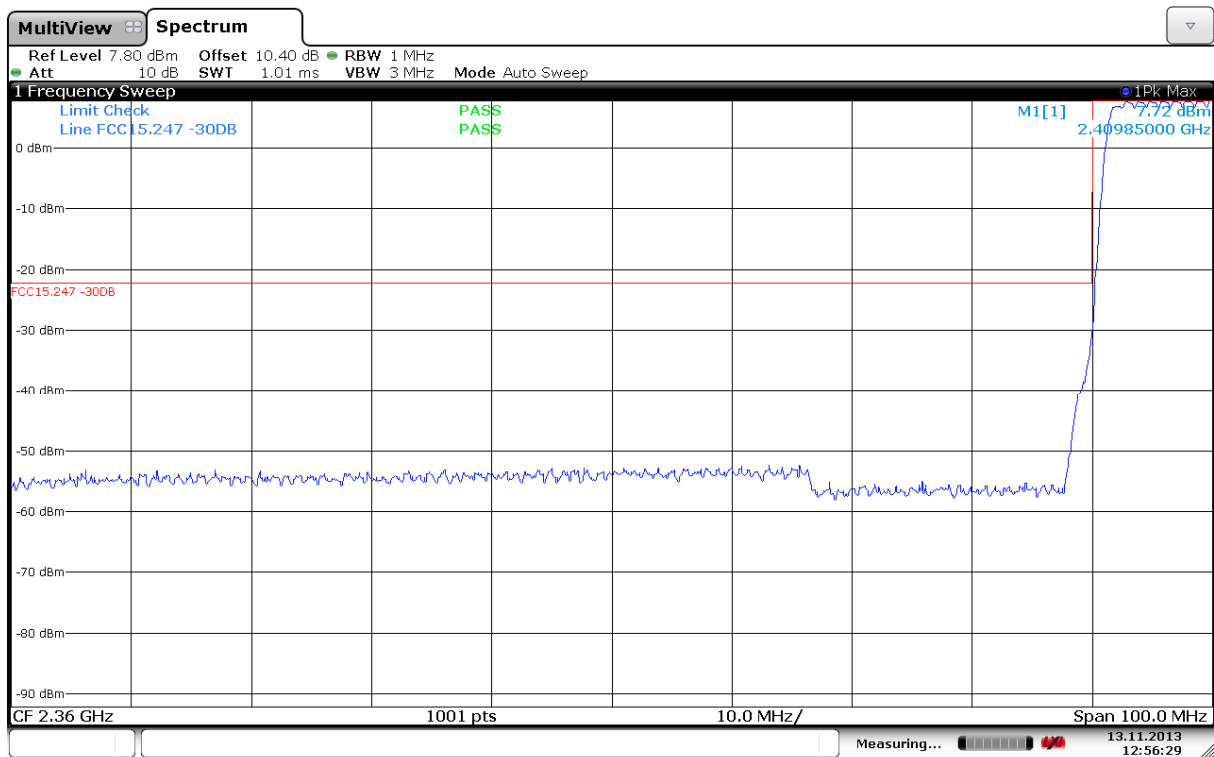


Date: 16.FEB.2016 13:32:06

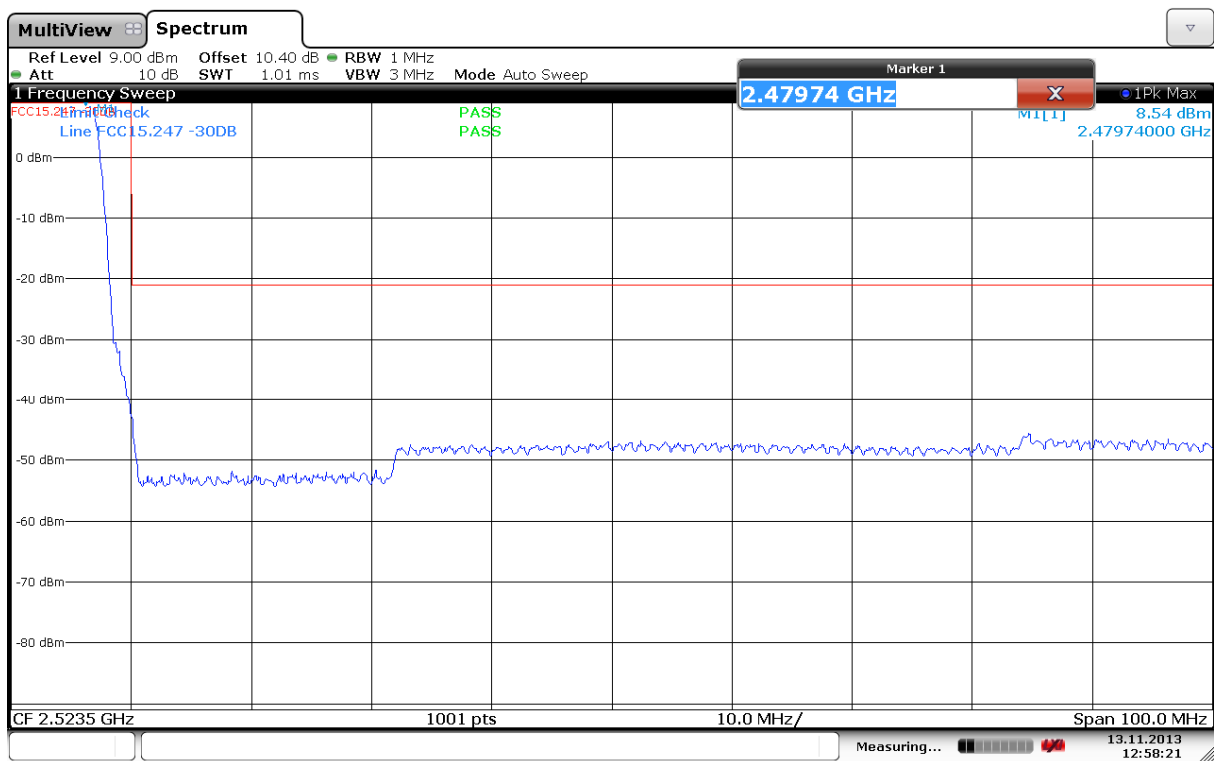
Upper Band Edge, Radiated, 2480 MHz, Peak



Conducted Emissions, 1MHz -25GHz, Hopping On



Conducted Emissions, 2310 -2410 MHz, Hopping ON



Conducted Emissions, 2473.5 -2573.5 MHz, Hopping ON

Radiated emission 30 – 1000 MHz.

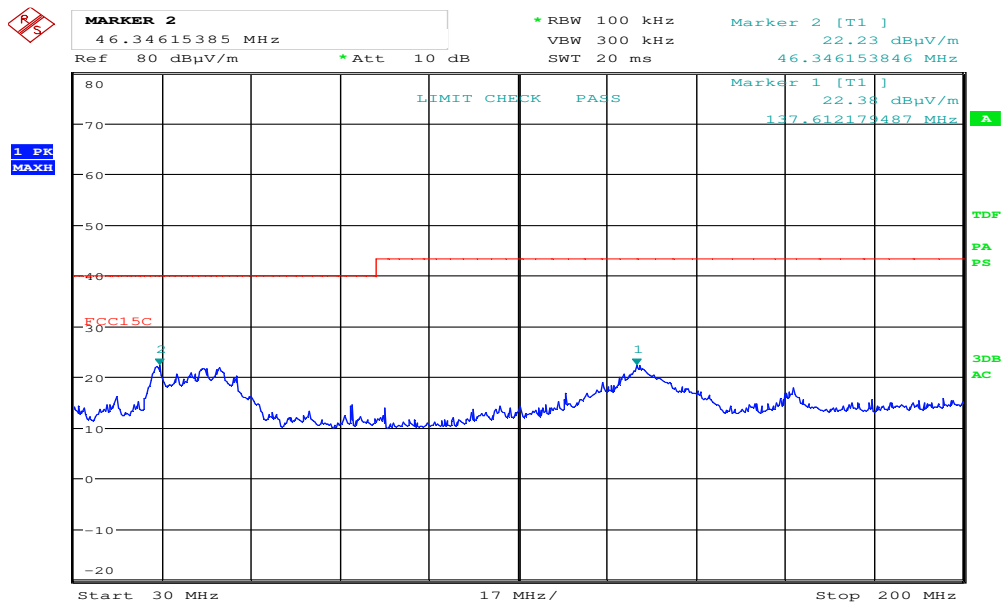
Detector: Peak

Measuring distance 3m according to FCC 15.209.

Tested in hopping mode.

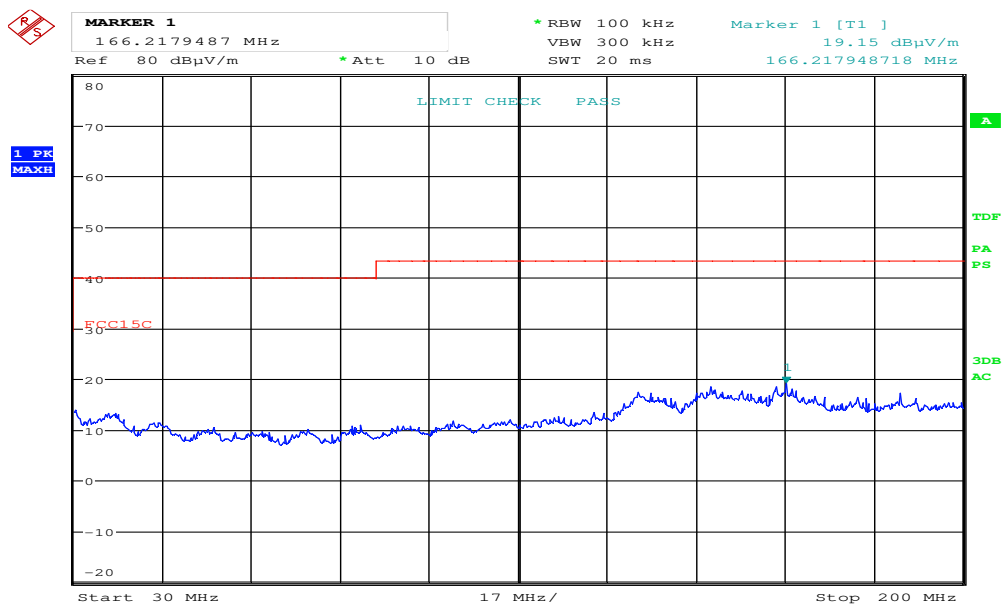
Frequency	Operational condition	Polarization	Field strength	Measuring distance	Limit FCC15.209	Margin
MHz			dB μ V/m	metres	dB μ V/m	dB
30 -200	TX on	VP/HP	<30	3	≥ 40	>10
200 - 1000	TX on	VP/HP	<35	3	≥ 43.5	>10

See attached plots.



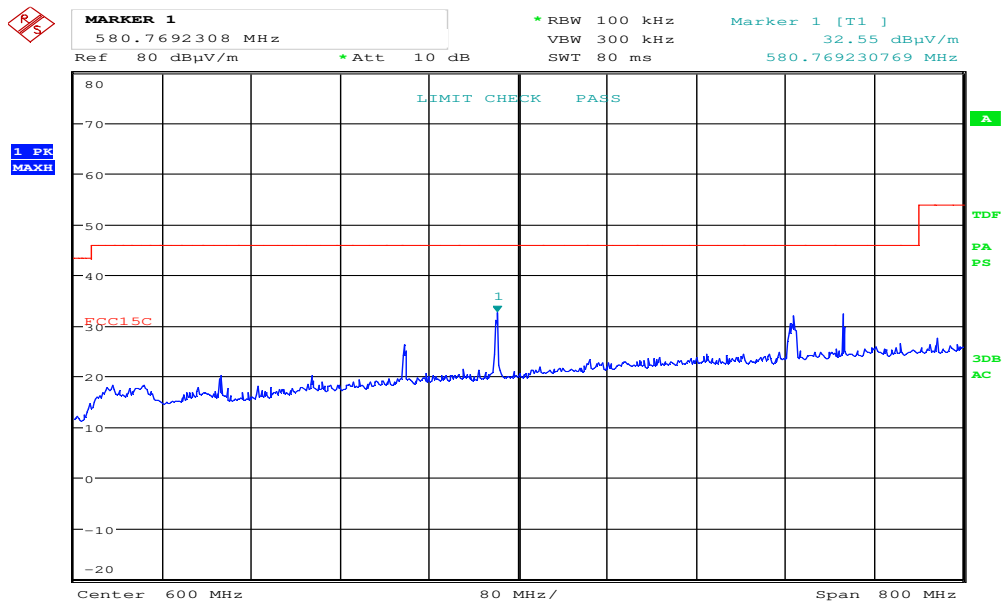
Date: 16.FEB.2016 11:15:25

Radiated Emissions, 30 -200MHz, VP



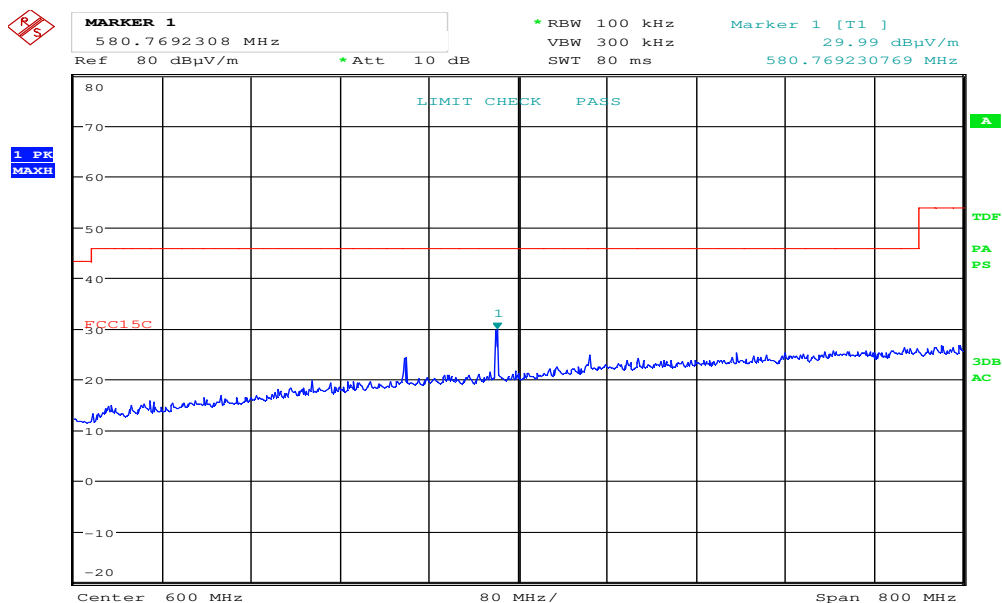
Date: 16.FEB.2016 11:21:01

Radiated Emissions, 30 -200MHz, HP



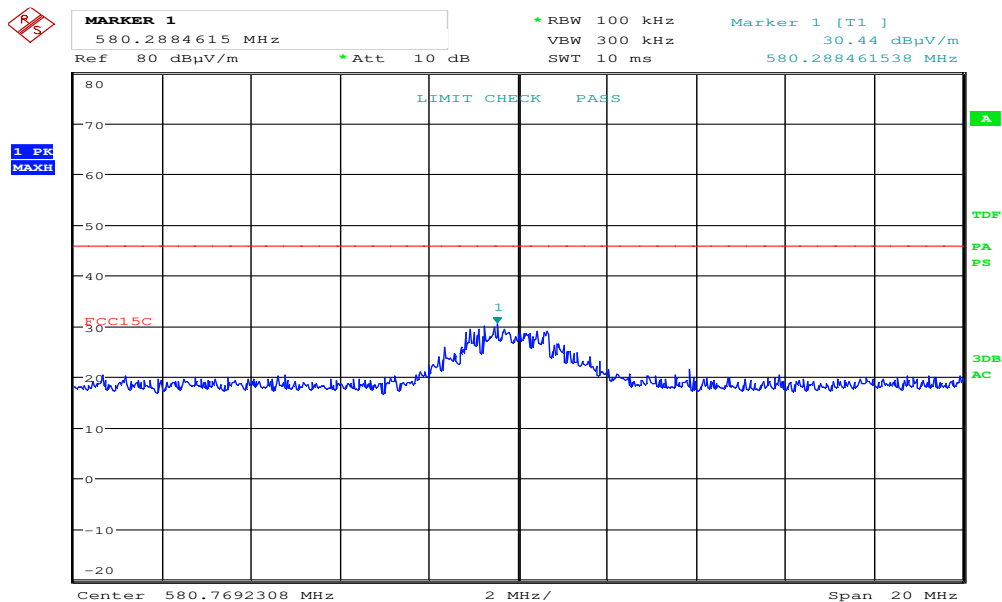
Date: 16.FEB.2016 10:45:46

Radiated Emissions. 200 -1000MHz, VP



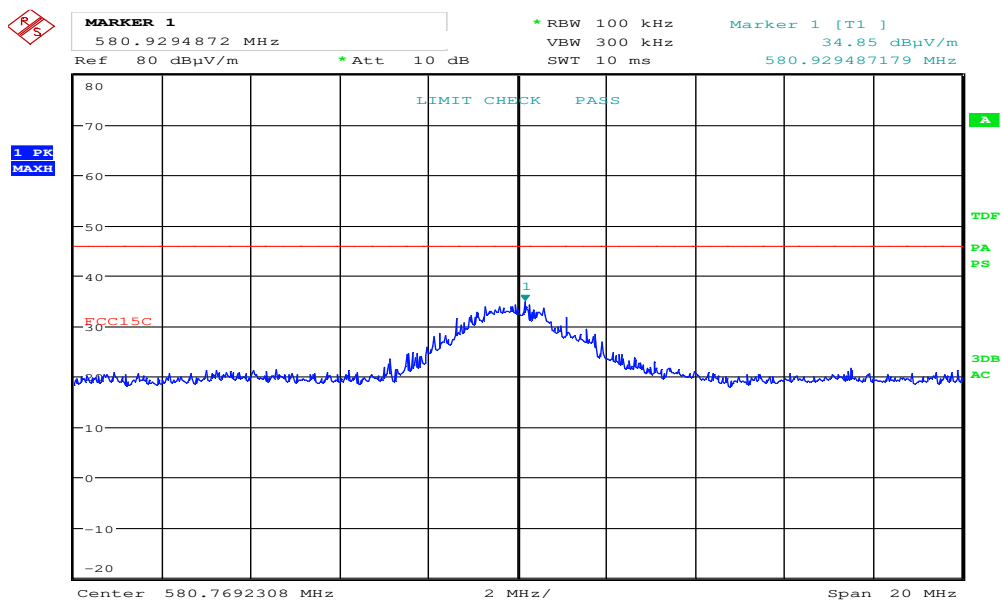
Date: 16.FEB.2016 10:52:21

Radiated Emissions. 200 -1000MHz, HP



Date: 16.FEB.2016 10:55:39

Radiated Emissions, 580MHz, Hopping, VP



Date: 16.FEB.2016 10:57:30

Radiated Emissions, 580MHz, Hopping, HP

Radiated Emissions, 1 -25 GHz

Measuring distance: 3m (1 – 8.5 GHz)
1m (8.5 – 18 GHz)

A Pre-scan was performed above 18 GHz

Peak Detector:

Frequency	RF channel	Dist. corr. factor	Field strength, Peak Detector, 3m	Duty cycle corr. factor	Limit	Margin
GHz	L,M,H	dB	dB μ V/m	dB	dB μ V/m	dB
All freqs	L,M,H	/	None detected	20	74	>20

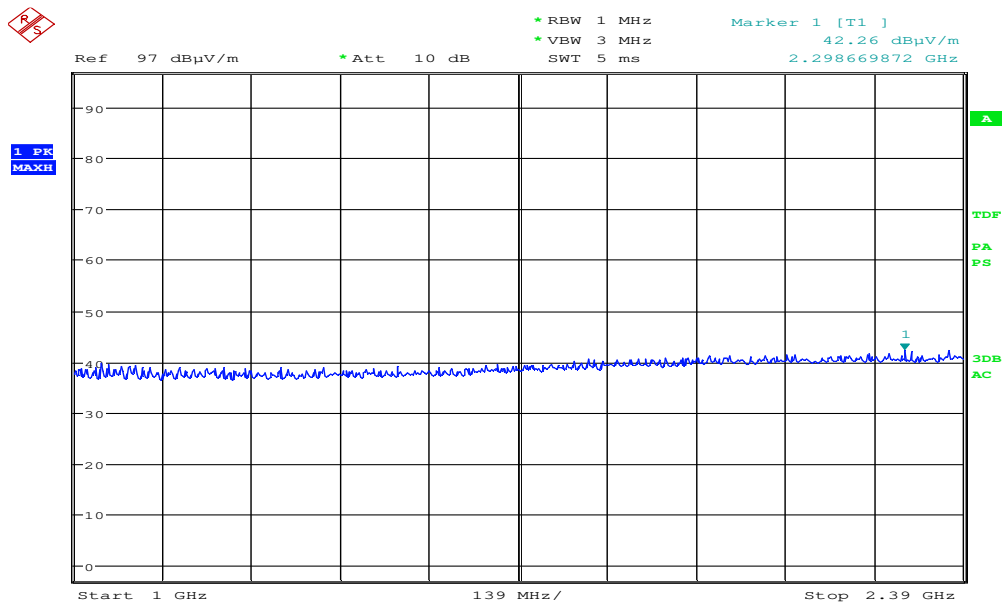
Average Detector values are calculated from Peak values by Duty Cycle Correction Factor.

All emissions are below the Average limit even when measured with Peak Detector.

Antenna factor, amplifier gain and cable loss are included in spectrum analyzer "Transducer factor".

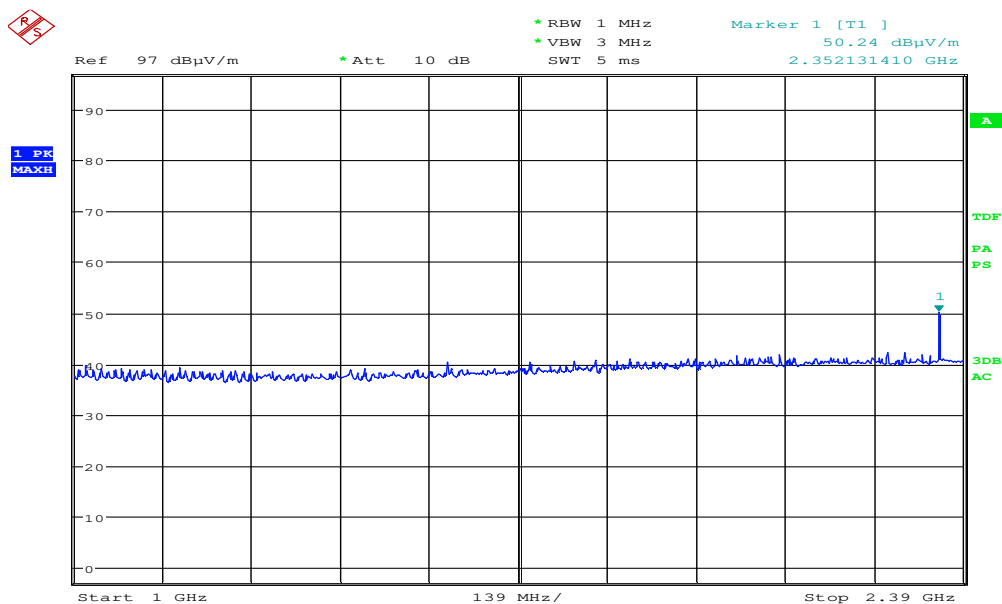
Distance correction factor is included on the plots when the measurement is performed @ 1m.

See plots.



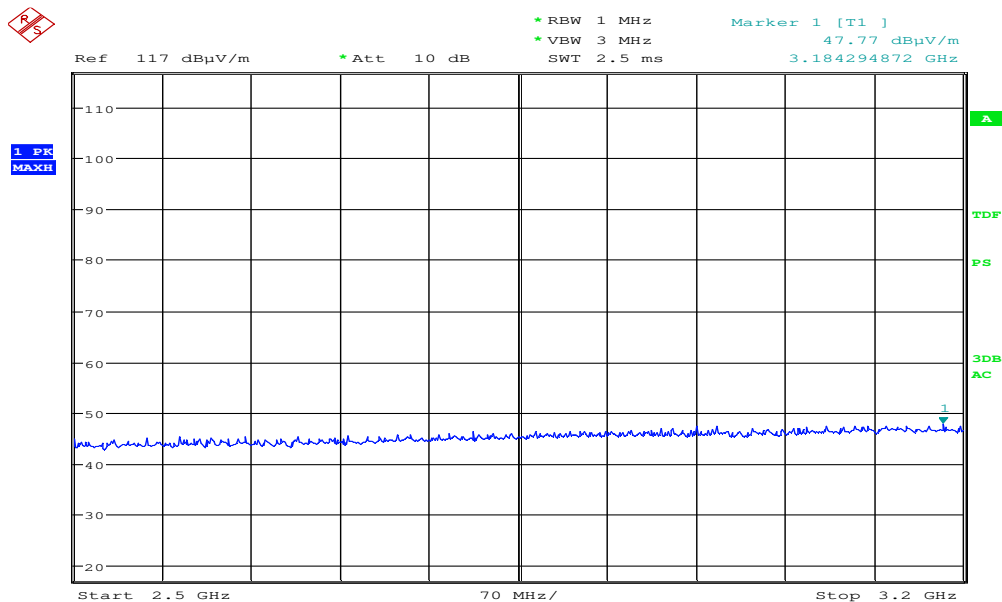
Date: 16.FEB.2016 12:50:17

Radiated Emissions, 1000 -2390MHz, 2402MHz, VP



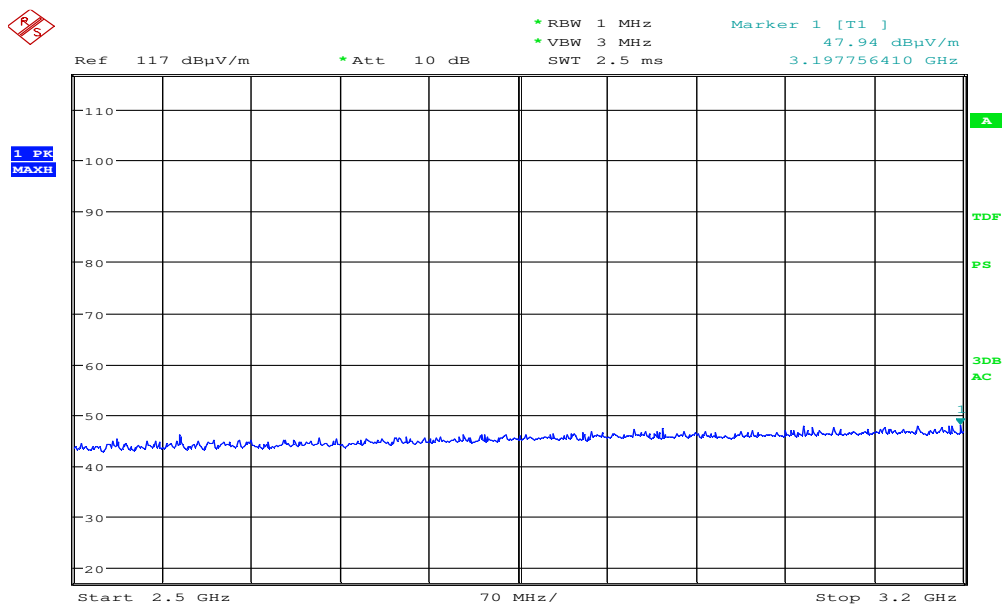
Date: 16.FEB.2016 12:52:08

Radiated Emissions, 1000 -2390MHz, 2402MHz, HP



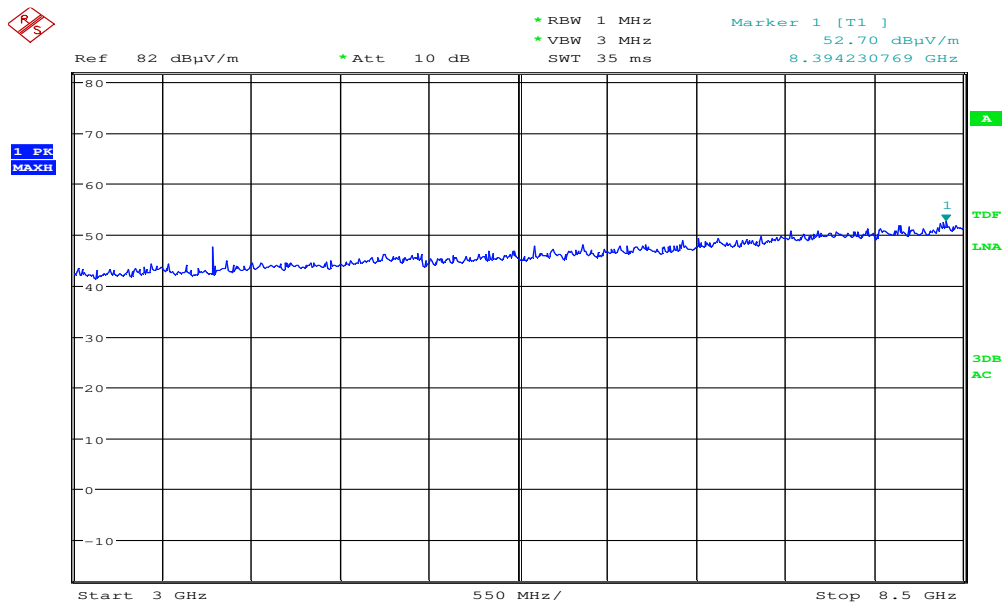
Date: 16.FEB.2016 13:35:19

Radiated Emissions, 2500 -3200MHz, 2480MHz, VP



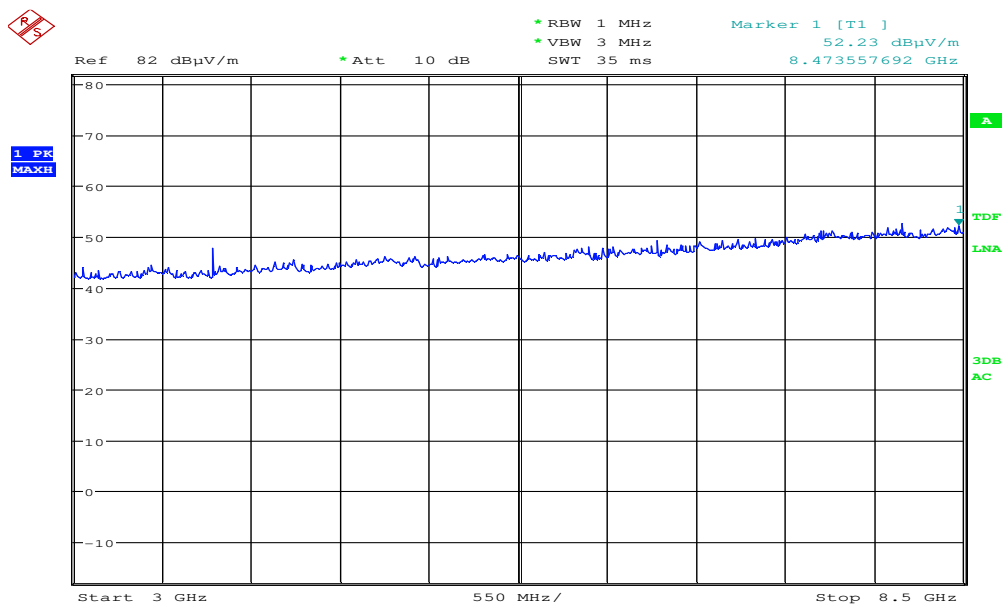
Date: 16.FEB.2016 13:37:10

Radiated Emissions, 2500 -3200MHz, 2480MHz, HP



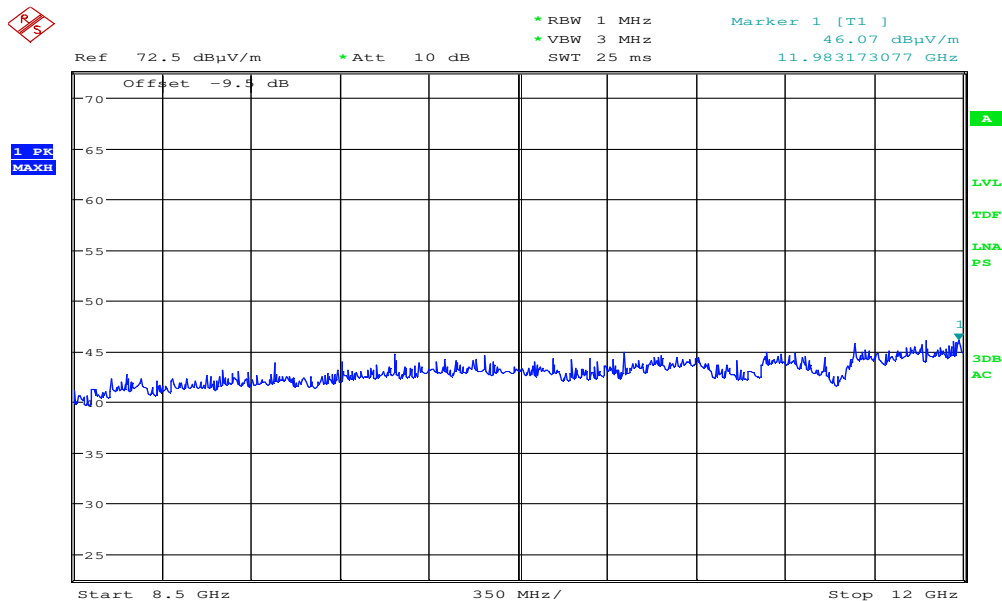
Date: 16.FEB.2016 13:49:16

Radiated Emissions, 3000 -8500MHz, 2441MHz, VP



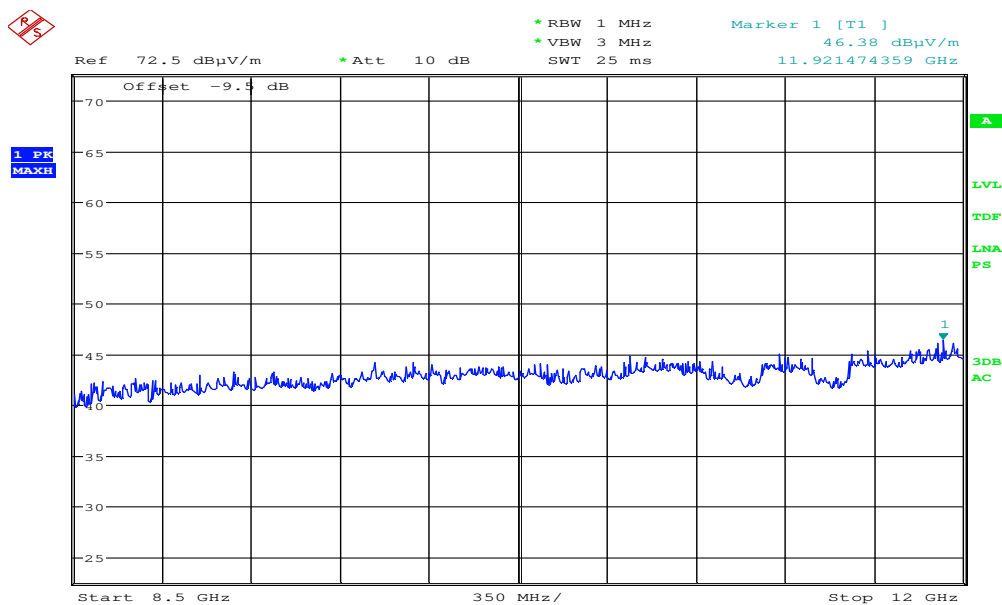
Date: 16.FEB.2016 13:51:08

Radiated Emissions, 3000 -8500MHz, 2441MHz, HP



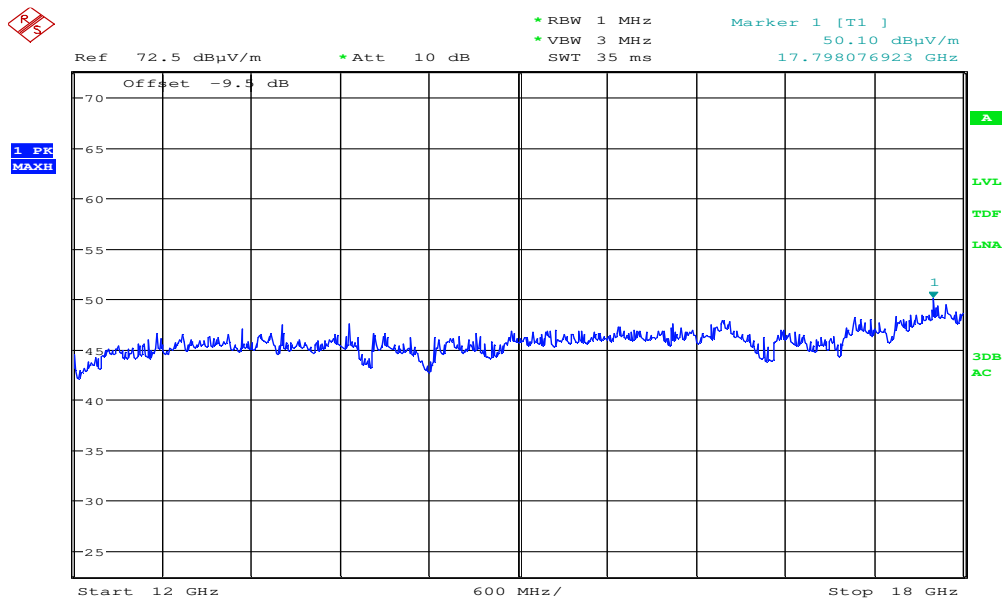
Date: 16.FEB.2016 14:21:45

Radiated Emissions, 8500 -12000MHz, 2441MHz, VP, @1m



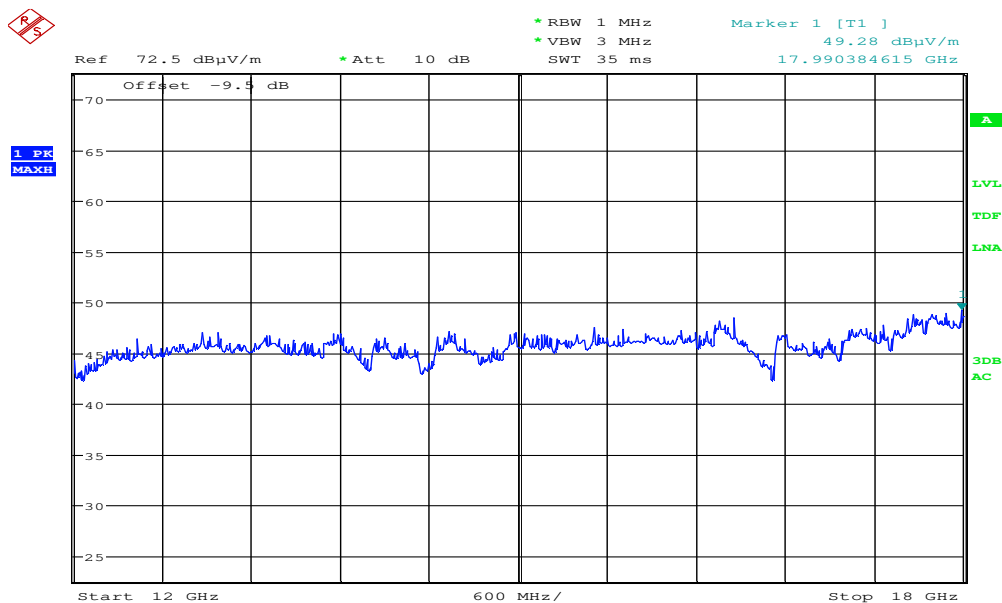
Date: 16.FEB.2016 14:23:38

Radiated Emissions, 8500 -12000MHz, 2441MHz, HP, @1m



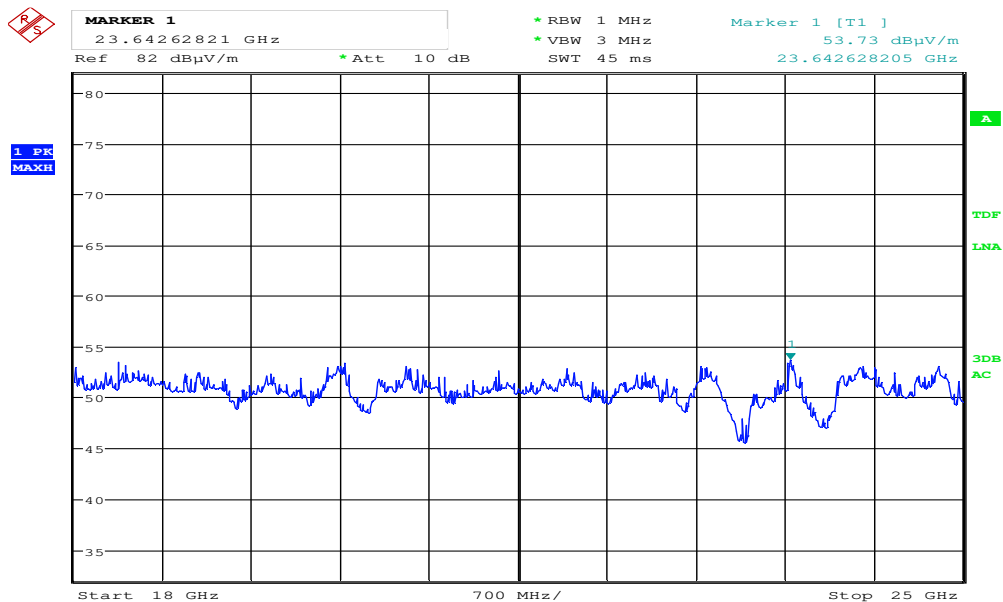
Date: 16.FEB.2016 14:32:42

Radiated Emissions, 12000 -18000MHz, 2441MHz, VP, @1m



Date: 16.FEB.2016 14:34:35

Radiated Emissions, 12000 -18000MHz, 2441MHz, HP, @1m



Date: 16.FEB.2016 15:06:38

Prescan, 18000 -25000MHz, 2441MHz, ca. 10cm

4 Measurement Uncertainty

Measurement Uncertainty Values		
Test Item		Uncertainty
Output Power		±0.5 dB
Power Spectral Density		±0.5 dB
Out of Band Emissions, Conducted	< 3.6 GHz	±0.6 dB
	> 3.6 GHz	±0.9 dB
Spurious Emissions, Radiated	< 1 GHz	±2.5 dB
	> 1 GHz	±2.2 dB
Emission Bandwidth		±4 %
Power Line Conducted Emissions		+2.9 / -4.1 dB
Spectrum Mask Measurements	Frequency	±5 %
	Amplitude	±1.0 dB
Frequency Error		±0.6 ppm
Temperature Uncertainty		±1 °C

All uncertainty values are expanded standard uncertainty to give a confidence level of 95%, based on coverage factor k=2

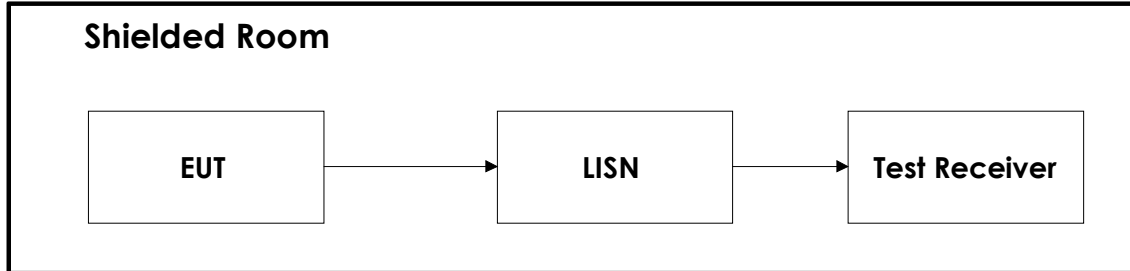
5 LIST OF TEST EQUIPMENT

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

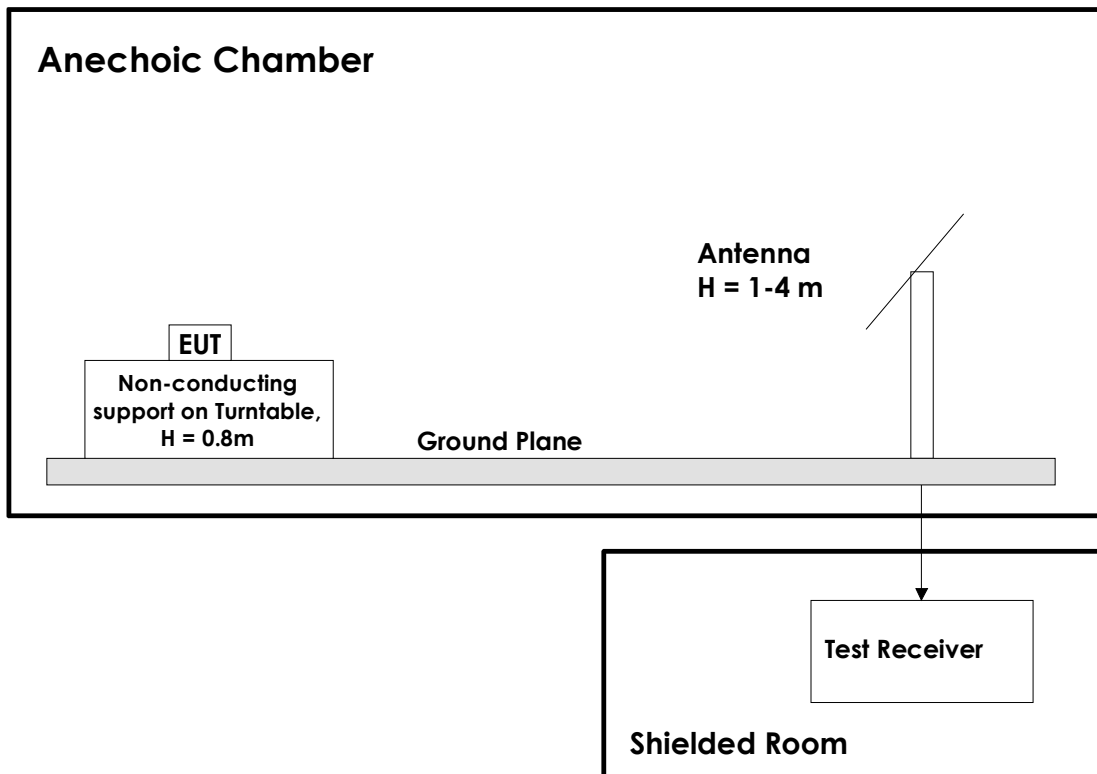
No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1	FSW26	Spectrum Analyzer	Rohde & Schwarz	LR 1640	2015.10	2016.10
2	ESU40	Measuring Receiver	Rohde & Schwarz	LR 1639	2015.11	2016.11
4	6HC3000/18000	Highpass Filter	Trilithic	LR 1614	Cal b4 use	
5	HK116	Biconical Antenna	Rohde & Schwarz	LR 1260	2013.12	2017.12
6	HL223	LPDA antenna	Rohde & Schwarz	LR 1261	2013.12	2017.12
7	3115	Horn Antenna	EMCO	LR 1226	2013.12	2018.12
8	8449A	Pre-amplifier	Hewlett Packard	LR 1322	2015.10	2016.10
9	642	Antenna Horn	Narda	LR 220	2009.01.26	2017.01.26
10	PM7320X	Antenna horn	Siverts lab	LR 103	2009.01.26	2017.01.26
11	DBF-520-20	Antenna horn	Systron Donner	LR 101	2009.01.26	2017.01.26
12	638	Antenna Horn	Narda	LR 1480	2010.06	2020.06
14	HFH2-Z2	Loop Antenna	Rohde & Schwarz	LR 1660	2014.10	2016.10
15	Model 87V	Multimeter	Fluke	N-4672	2015.10	2016.10
16	ESHS10	EMI	Rohde & Schwarz	N-3528	2015.08.13	2016.08.13
17	ESH3-Z5	Two-line V-Network	Rohde & Schwarz	LR 1076	2014.04.23	2016.04.23
18	ESH3-Z2	Pulse limiter	Rohde & Schwarz	LR 1074	2015.03.05	2017.03.05
19	6812B	AC power Source	Agilent	LR 1515	2015.12	2016.12

6 BLOCK DIAGRAM

6.1 Power Line Conducted Emission



6.2 Test Site Radiated Emission



This test setup is used for all radiated emissions tests. The measuring distance is 3m or 1m. Emissions above 1 GHz are measured with a Spectrum Analyzer and Horn Antenna. A pre-amplifier is used for all measurements above 30 MHz, and High-Pass or Band-Pass filter is used for all harmonics.

Revision history

Version	Date	Comment	Sign
1.0	2016.02.23	First Edition	FS
2.0	2016.04.01	Corrected test setup description	FS
3.0	2020.01.09	U and re-issued	FS