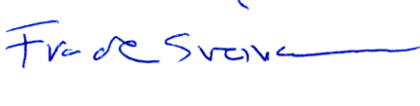


Test Report

Product	Bluetooth Transceiver in DECT Handset		
Name and address of the applicant	Ascom (Sweden) AB Grimbodalen 2, SE-40276 Gothenburg Sweden		
Name and address of the manufacturer	Same as above		
Model	DH7BT		
Rating	3.7V DC (Secondary battery, Li-Ion)		
Trademark	ASCOM		
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 Low Power Licence-Exempt Radiocommunications Devices		
Order number	296394		
Tested in period	2015.11.30 to 2015.12.03		
Issue date	2016.09.16		
Name and address of the testing laboratory	 FCC No: 994405 IC OATS: 2040D-1 TEL: +47 22 96 03 30 FAX: +47 22 96 05 50 Instituttveien 6 Kjeller, Norway		
  Prepared by [Frode Sveinsen] Approved by [G.Suhanthakumar]			
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1 INFORMATION

1.1 Test Item

Name :	Ascom
FCC ID :	BXZDH7BT
Industry Canada ID :	3724B-DH7BT
Model/version :	DH7BT
Serial number :	/
Hardware identity and/or version:	PCB Rev C
Software identity and/or version :	/
Tested to IC Radio Standard (RSS) :	RSS-247 Issue 1, RSS-GEN Issue 4
Test Site IC Reg. Number :	IC 2040D-1
Frequency Range :	2402 – 2480 MHz
Number of Channels :	79
Operating Modes :	FHSS
Type of Modulation :	GFSK
User Frequency Adjustment :	None
Rated Output Power :	5.0 mW
Power Supply :	Secondary Battery (3.7V Li-Ion)
Antenna Connector :	None
Antenna Diversity Supported :	No
Desktop Charger :	DC3-DAAA with Power Adaptor

Description of Test Item

The EUT is a DECT Handset with Bluetooth Transceiver

1.2 Test Environment

Temperature: 20.5 – 23.3 °C

Relative humidity: 29 - 42 %

Normal test voltage: 3.7 V DC

The values are the limit registered during the test period.

1.3 Test Engineer(s)

Frode Sveinsen
Thanh Tran

1.4 Test Equipment

See list of test equipment in clause 5.

1.5 Description of modification for Modification Filing

Not applicable.

1.6 Family List Rationale

Not Applicable.

1.7 Other Comments

None.

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 1.

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 1, RSS-GEN Issue 4 reference	Result
Supply Voltage Variations	15.31(e)	6.11 (RSS-GEN)	Complies
Number of Operating Frequencies	15.31(m)	5.1 (6) (RSS-247)	Complies
Antenna Requirement	15.203	8.3 (RSS-GEN)	Complies
Power Line Conducted Emission	15.107(a) 15.207(a)	8.8 (RSS-GEN)	Complies
Channel Separation	15.247(a)(1)	5.1 (4) (RSS-247)	Complies
Pseudorandom Hopping Algorithm	15.247(a)(1)	5.1 (3) (RSS-247)	Complies
Time of Occupancy	15.247(a)(1)(iii)	5.1 (5) (RSS-247)	Complies
Occupied Bandwidth	15.247(a)(1)	5.1 (7) (RSS-247)	Complies
Peak Power Output	15.247(b)	5.4 (RSS-247)	Complies
Spurious Emissions (Antenna Conducted)	15.247(c)	5.5 (RSS-247)	Complies
Spurious Emissions (Radiated)	15.247(c) 15.109(a) 15.209(a)	5.5 (RSS-247) 6.13 (RSS-GEN) 8.9 (RSS-GEN)	Complies

3 TEST RESULTS

3.1 Power Line Conducted Emissions

Para. No.: 15.207 (a)

Test Performed By: Thanh Tran	Date of Test: 3-Dec-2015
-------------------------------	--------------------------

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

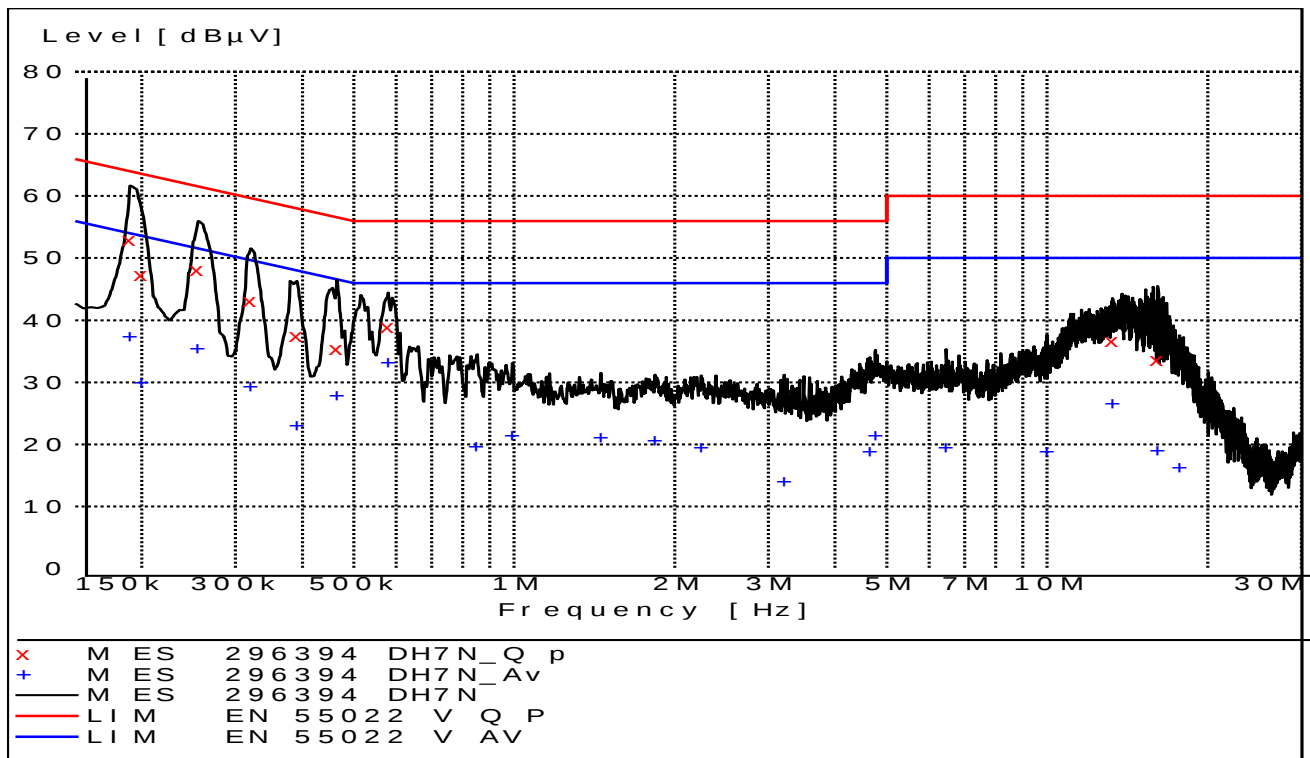
Test Results: Complies.

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

Highest measured value (L1 and N):

AC Mains, 120V 60Hz:

Frequency [MHz]	Level [dBuV]	Af [dB]	Limit [dBuV]	Margin [dB]	Det	Position	Verdict [Pass/Fail]
0.190000	53.00	10.70	64.00	11.00	QP	N	Pass
0.200000	47.30	10.70	63.60	16.30	QP	N	Pass
0.255000	48.10	10.60	61.60	13.50	QP	N	Pass
0.320000	43.20	10.50	59.70	16.50	QP	N	Pass
0.390000	37.50	10.40	58.10	20.60	QP	N	Pass
0.465000	35.50	10.30	56.60	21.10	QP	N	Pass
0.580000	38.90	10.20	56.00	17.10	QP	N	Pass
13.255000	36.60	10.80	60.00	23.40	QP	L1	Pass
16.125000	33.60	10.80	60.00	26.40	QP	L1	Pass
0.190000	37.30	10.70	54.00	16.70	AV	N	Pass
0.200000	30.00	10.70	53.60	23.60	AV	N	Pass
0.255000	35.40	10.60	51.60	16.20	AV	N	Pass
0.320000	29.30	10.50	49.70	20.40	AV	N	Pass
0.390000	23.00	10.40	48.10	25.10	AV	N	Pass
0.465000	27.80	10.30	46.60	18.80	AV	N	Pass
0.580000	33.20	10.20	46.00	12.80	AV	N	Pass
0.850000	19.60	10.30	46.00	26.40	AV	N	Pass
0.990000	21.30	10.40	46.00	24.70	AV	N	Pass
1.455000	21.00	10.40	46.00	25.00	AV	N	Pass
1.835000	20.60	10.40	46.00	25.40	AV	N	Pass
2.240000	19.40	10.40	46.00	26.60	AV	N	Pass
3.210000	14.10	10.40	46.00	31.90	AV	L1	Pass
4.645000	18.80	10.50	46.00	27.20	AV	L1	Pass
4.765000	21.40	10.50	46.00	24.60	AV	N	Pass
6.465000	19.40	10.60	50.00	30.60	AV	N	Pass
10.005000	18.80	10.60	50.00	31.20	AV	L1	Pass
13.255000	26.50	10.80	50.00	23.50	AV	L1	Pass
16.125000	19.00	10.80	50.00	31.00	AV	L1	Pass
17.705000	16.20	10.80	50.00	33.80	AV	L1	Pass



AC Mains, 120V 60Hz

3.2 Channel Separation

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

Test Results: **Complies**

Measurement Data:

Channel Separation:	1.0 MHz
20 dB Bandwidth of hopping channel:	819 kHz
Nominal value for Channel Separation	1.0 MHz

RF channel has no influence on 20 dB bandwidth.

See attached plots

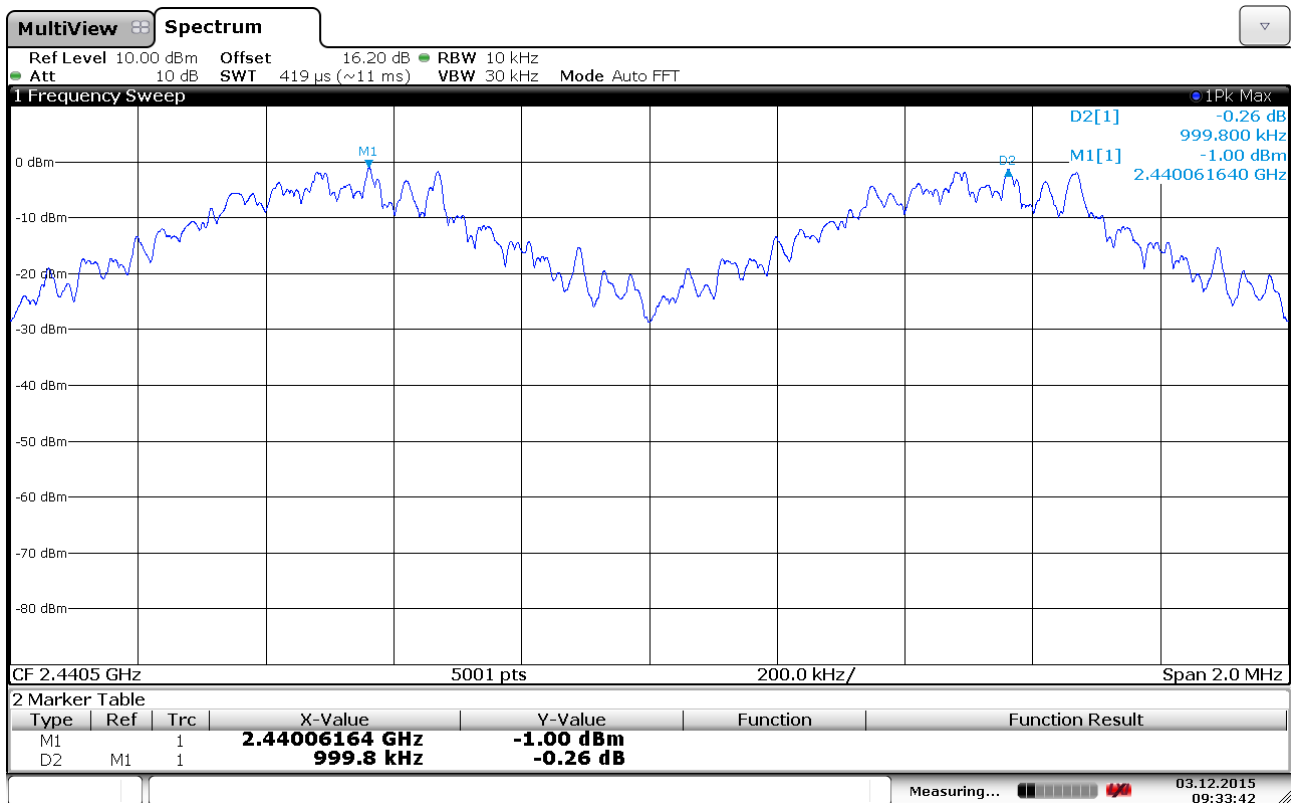
Requirement:

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.

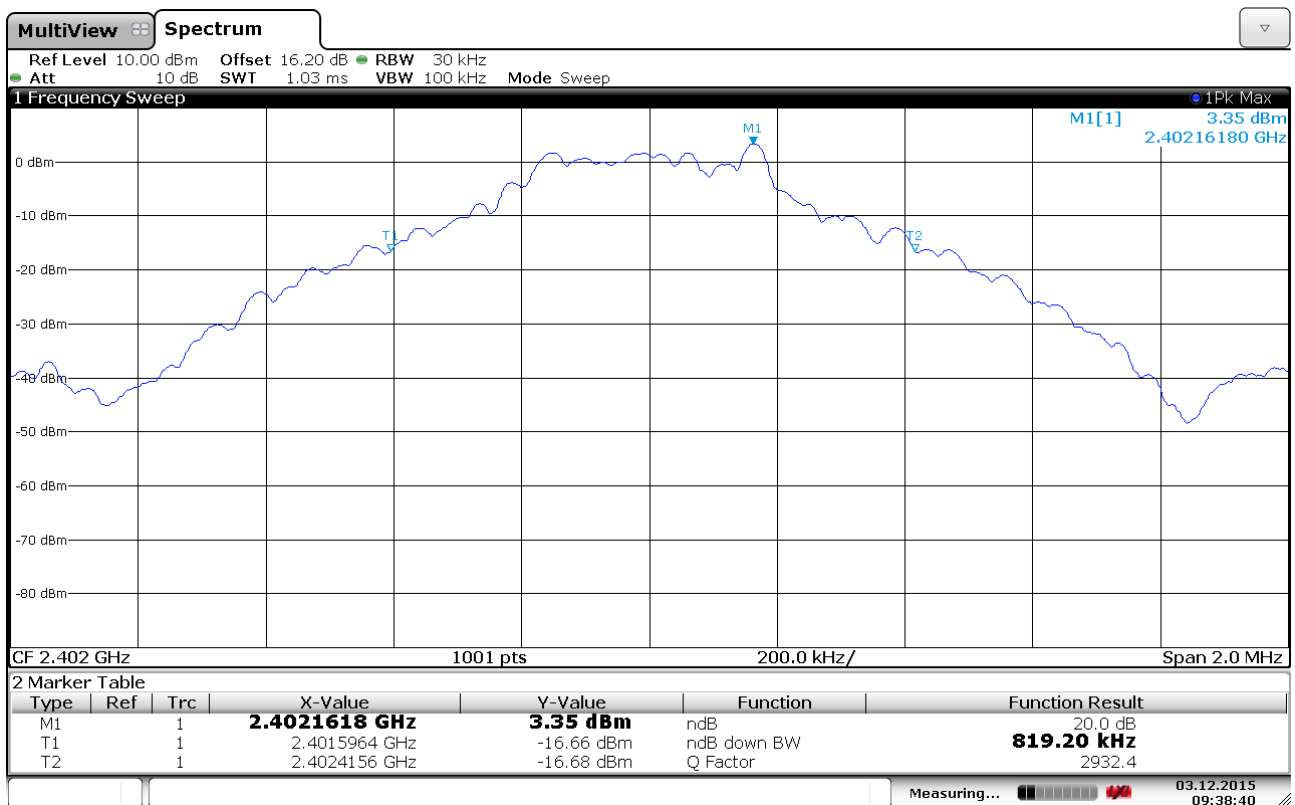
or:

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.

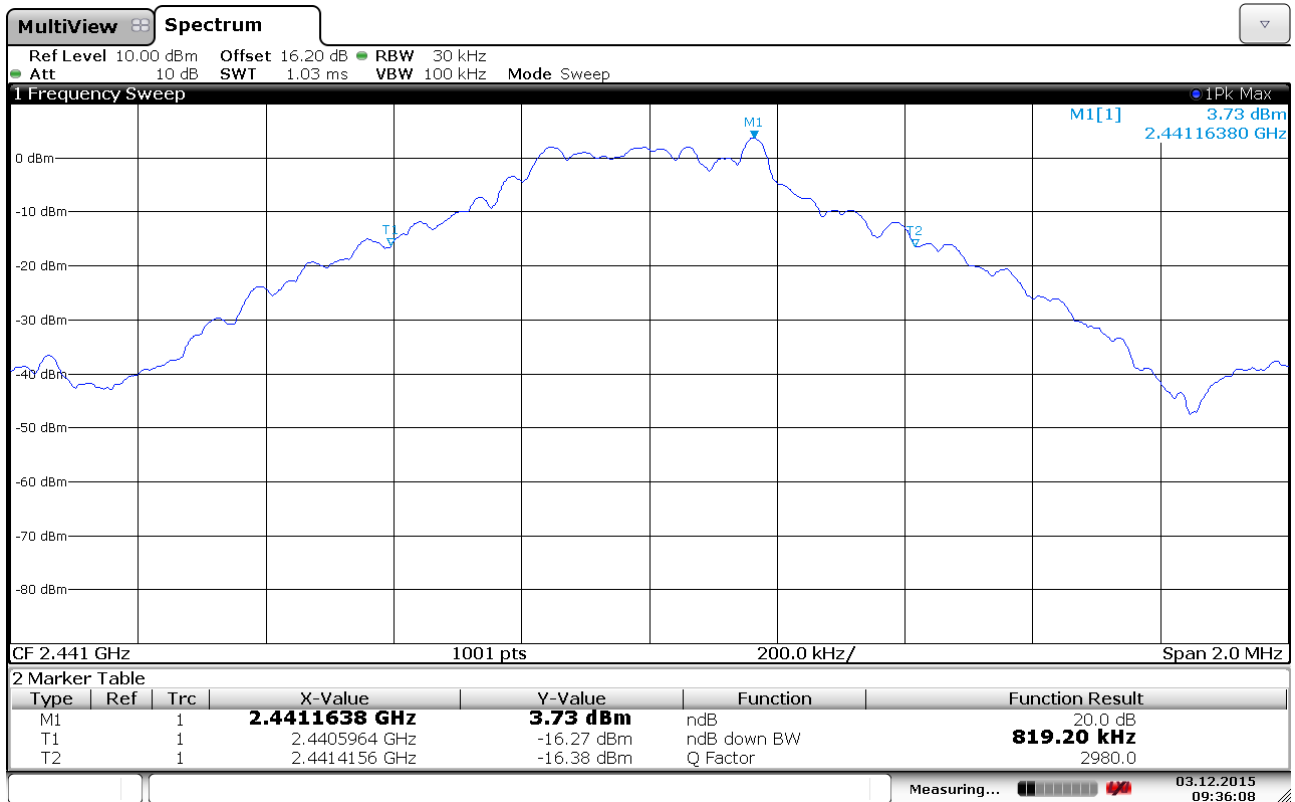
No requirements for Digital Transmission Systems.



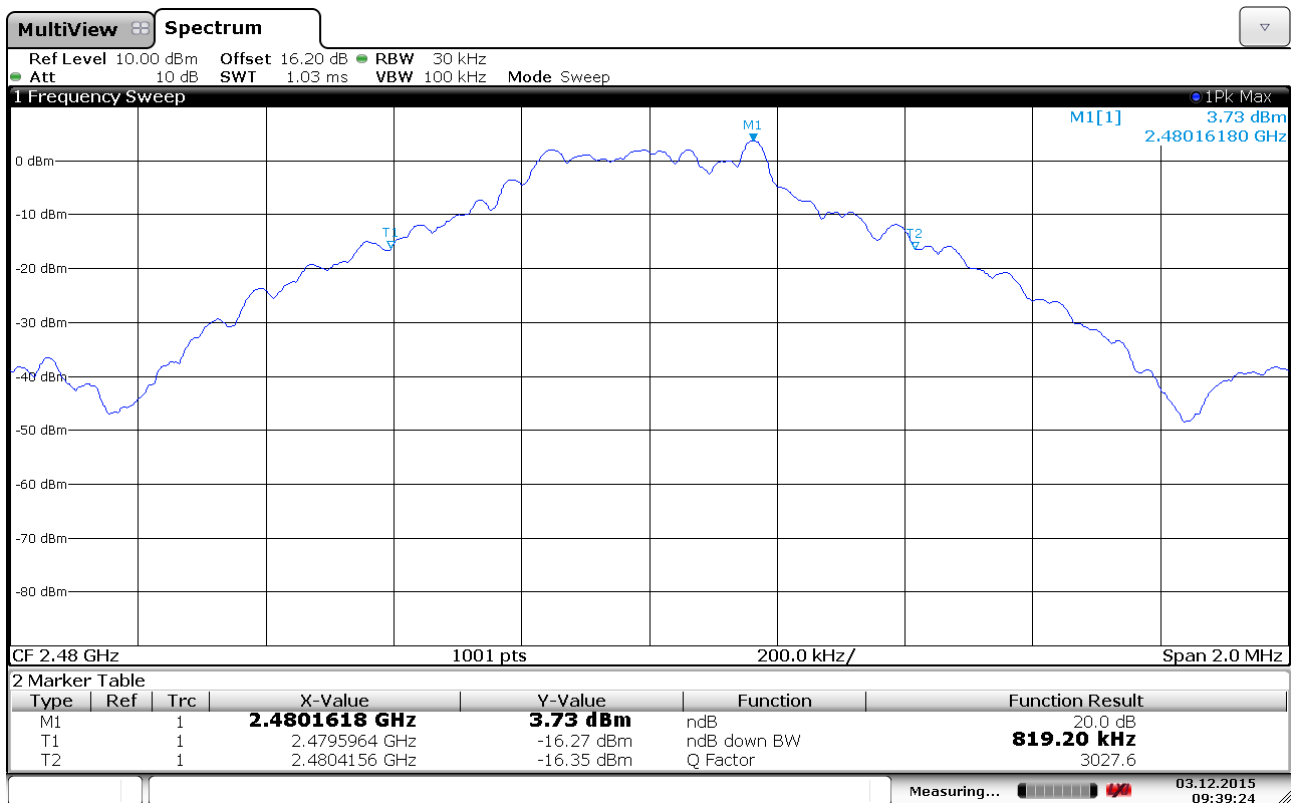
Channel Separation



20dB Bandwidth, 2402 MHz



20dB Bandwidth, 2441 MHz



20dB Bandwidth, 2480 MHz

3.3 Pseudorandom Hopping Algorithm

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

Test Results: Complies

Measurement Data: /

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.

3.4 Occupancy Time

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

Test Results: Complies

Measurement Data:

	DH1	DH3	DH5
Number of RF Channels:	20 or 79		
Maximum Length of RF Burst pr. channel (ms)	0.390	1.651	2.907
Slot length (ms)	1.251	3.747	6.253
Time between RF Burst on same RF Channel (ms)	25.0	74.9	125.1
Time of Occupancy	125 ms	176 ms	186 ms

DH1:

Time between RF burst on same channel: $1.251 \times 20 \text{ ms} = 25.0 \text{ ms}$

Time of occupancy: $(0.390 \times 400 \times 20) / 25.0 = 125 \text{ ms}$

DH3:

Time between RF burst on same channel: $3.747 \times 20 \text{ ms} = 74.9 \text{ ms}$

Time of occupancy: $(1.651 \times 400 \times 20) / 74.9 = 176 \text{ ms}$

DH5:

Time between RF burst on same channel: $6.253 \times 20 \text{ ms} = 125.1 \text{ ms}$

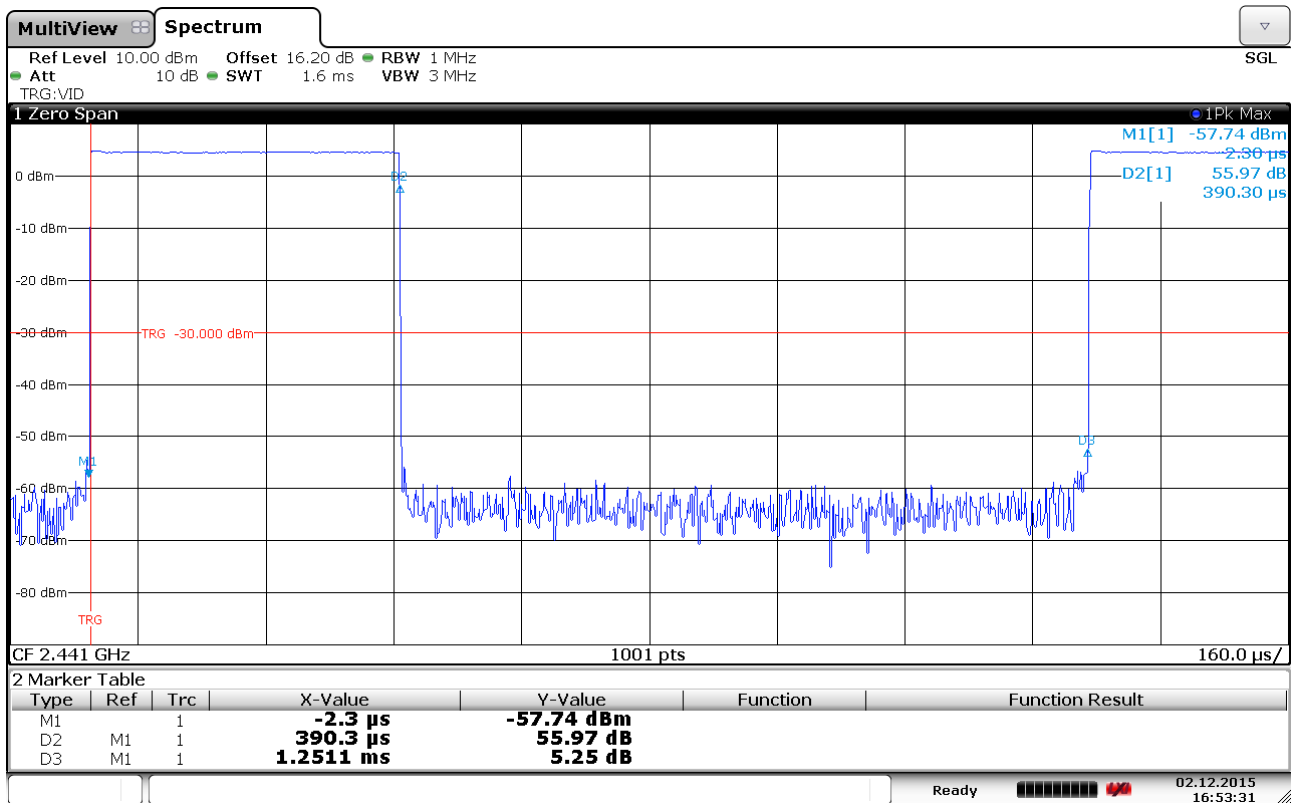
Time of occupancy: $(2.907 \times 400 \times 20) / 125.1 = 186 \text{ ms}$

See attached graph.

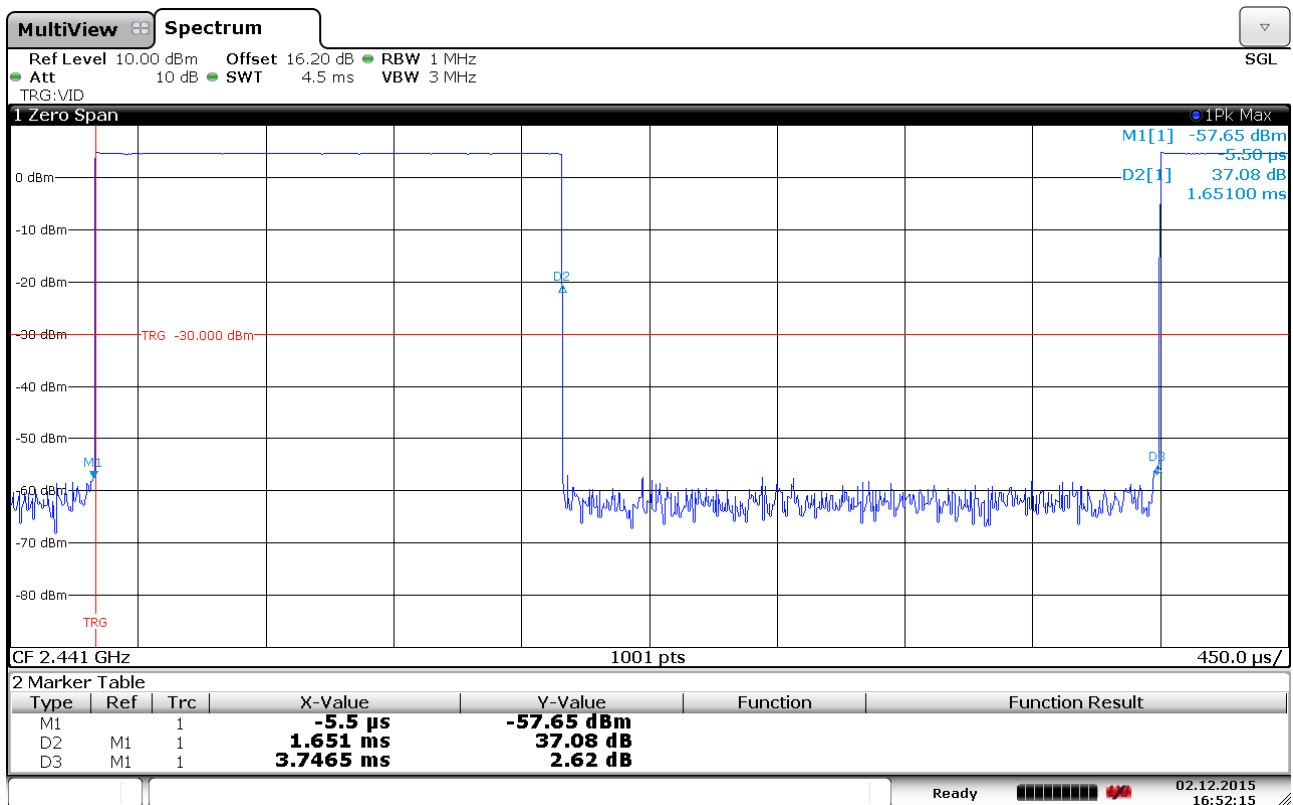
Requirements:

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.

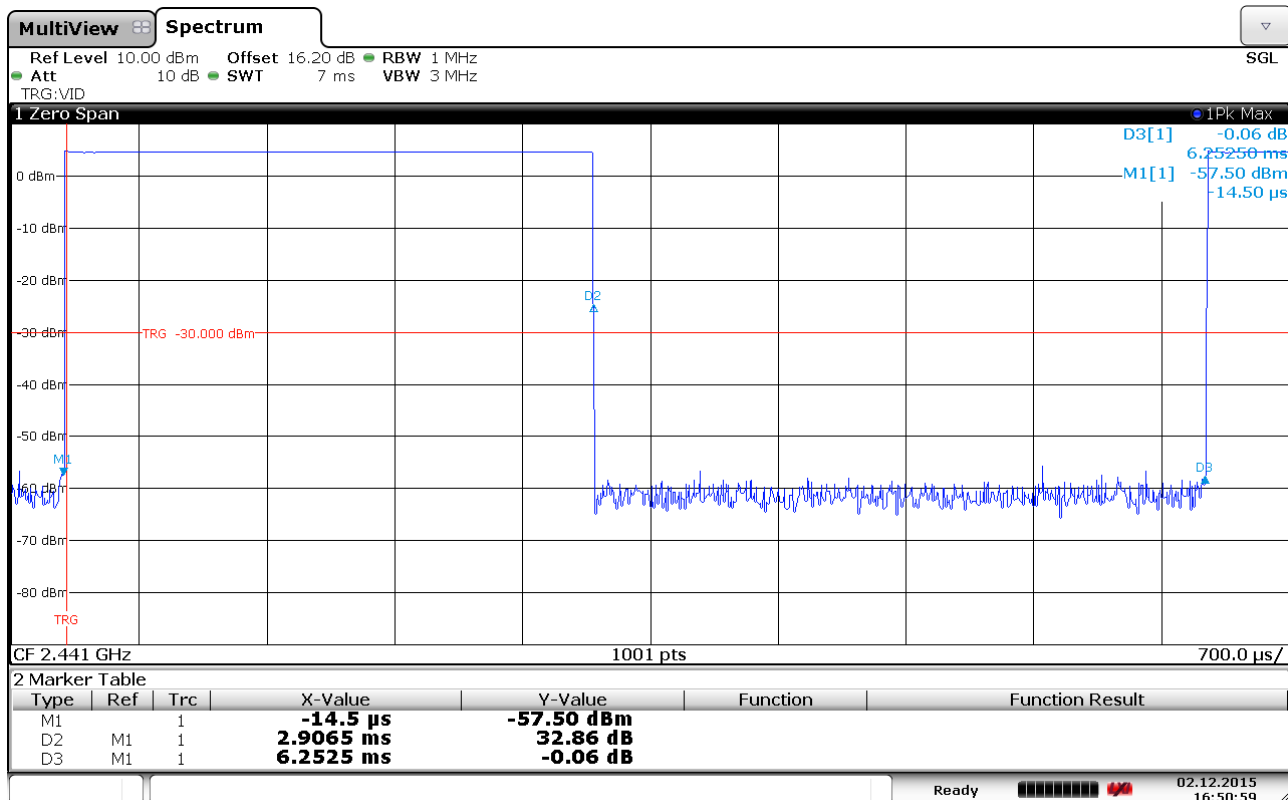
No requirements for Digital Transmission Systems.



Burst Length, DH1



Burst Length, DH3



Burst Length, DH5

3.5 Occupied Bandwidth

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

Test Results: Complies

Measurement Data:

Number of RF Channels in use:	79
Channel Centre Frequencies:	2402 to 2480 MHz
99% BW Measured on Centre Channel (2441MHz)	834 kHz

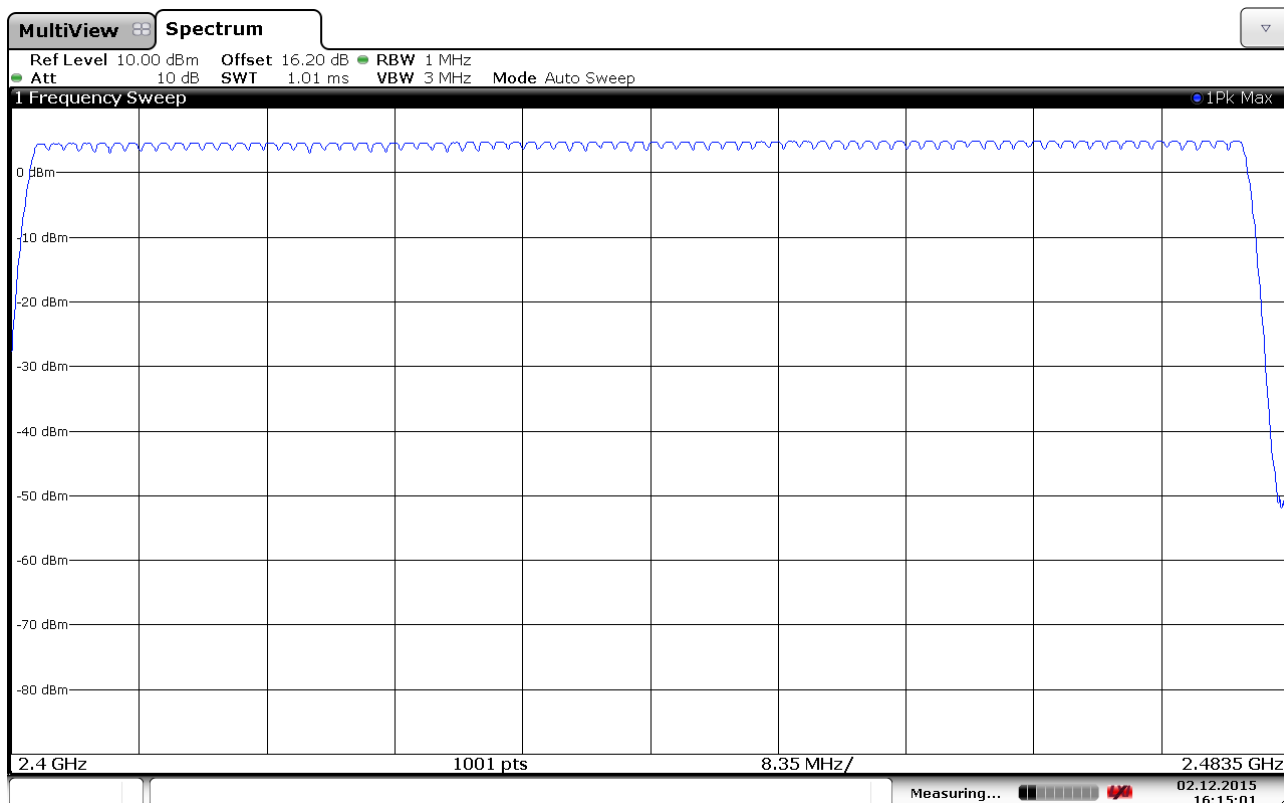
See attached plots.

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



99% Bandwidth

3.6 Peak Power Output

Para. No.: 15.247 (b)

Test Results: Complies

Measurement Data:

	2402 MHz	2441 MHz	2480 MHz
Conducted Power (dBm)	4.45	4.87	4.95
Conducted Power (Watts)	0.00279	0.00307	0.00313
Maximum Antenna gain (dBi)*	3.0	3.0	3.0
EIRP, Calculated (Watts)	0.0556	0.00612	0.00624

* Maximum Antenna gain is value declared by manufacturer.

See attached graph.

Detachable antenna?

☐ Yes

☒ No

If detachable, is the antenna connector non-standard?

☐ Yes

☐ No

Type of antenna connector: N/A

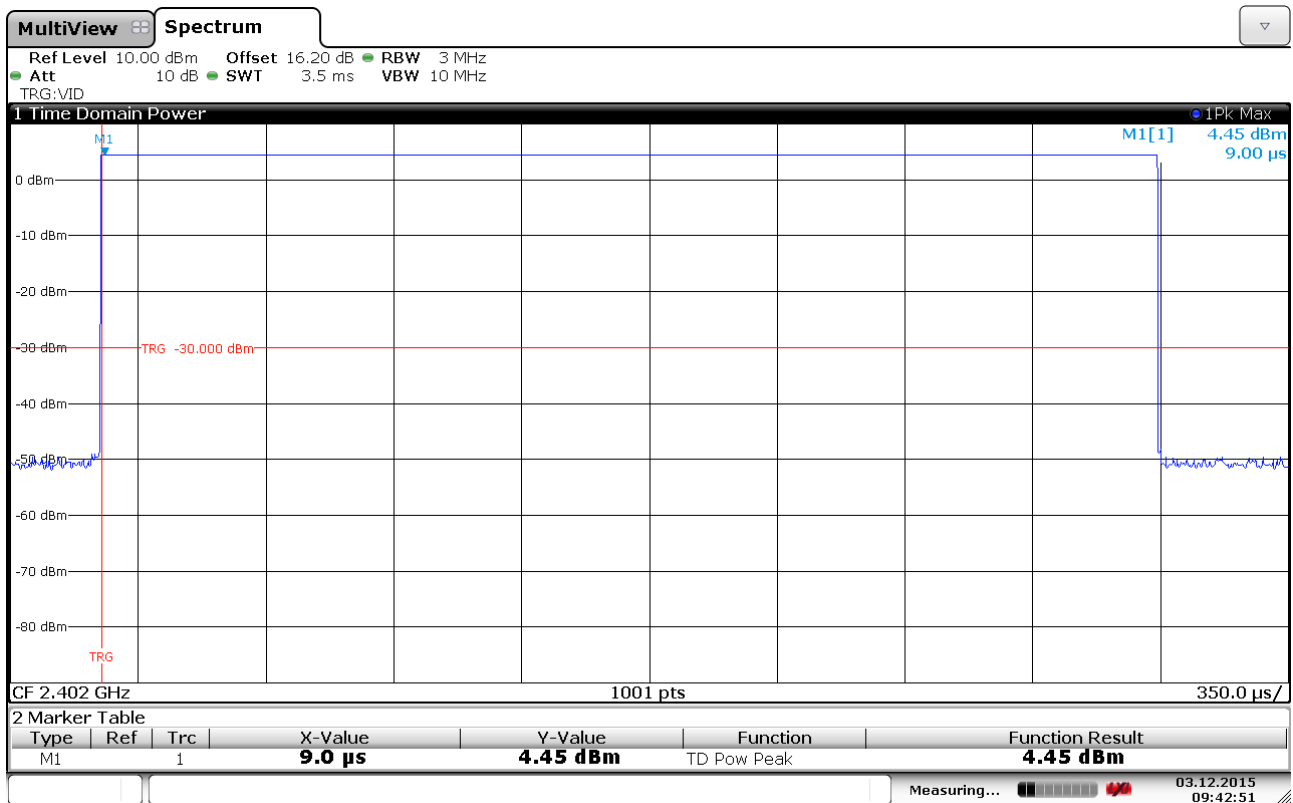
Requirements:

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

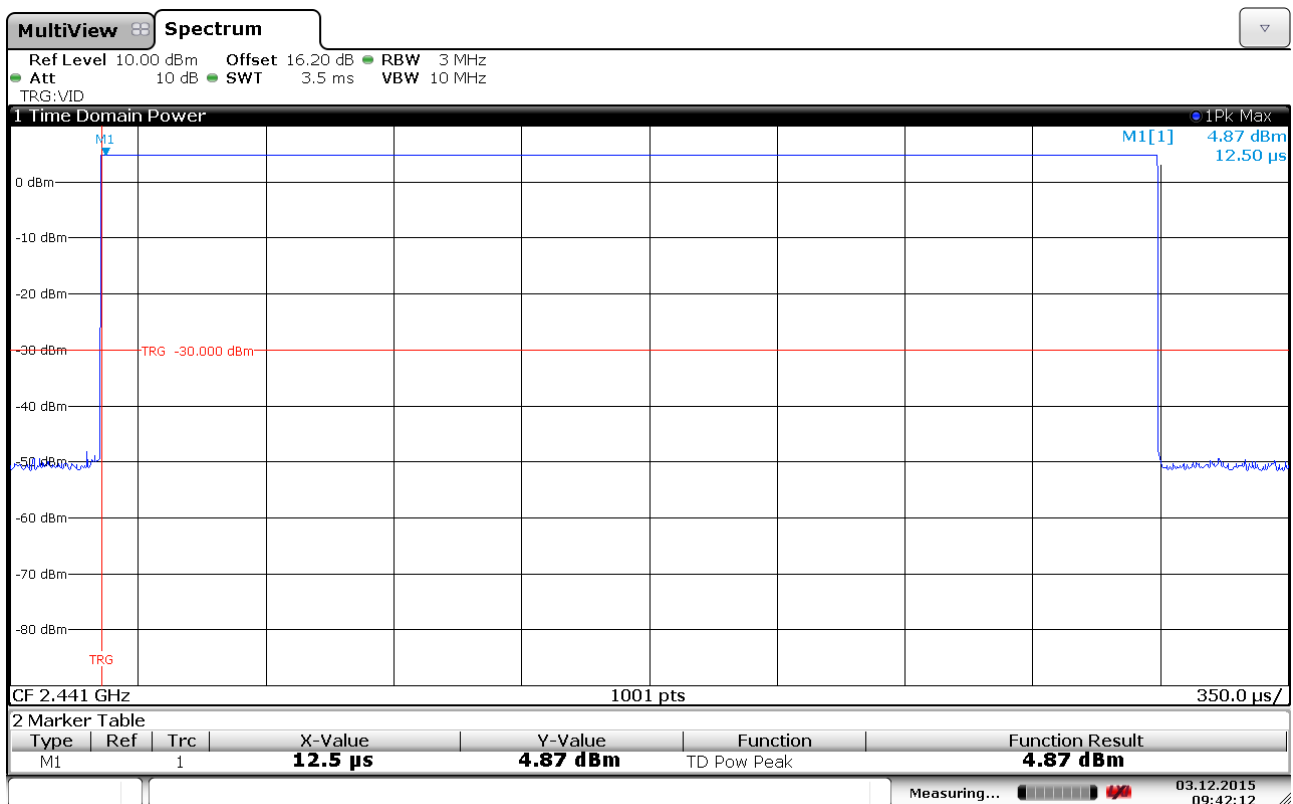
For frequency hopping systems employing at least 75 hopping channels: 1 Watt

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

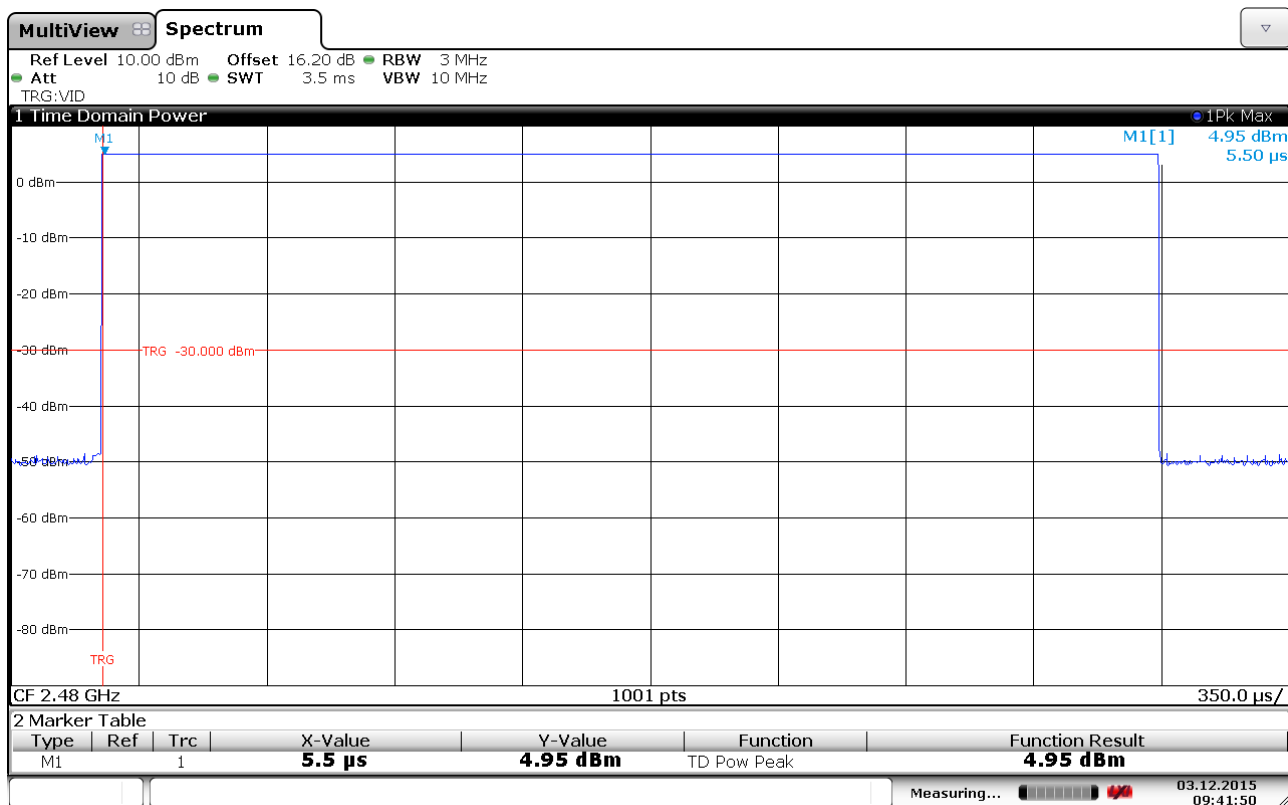
If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced below the stated value above by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



Conducted Power, 2402 MHz



Conducted Power, 2441 MHz



Conducted Power, 2480 MHz

3.7 Spurious Emissions (Radiated)

Para. No.: 15.247 (c)

Test Results: Complies

Measurement Data:

Band-edge conducted power

	Measured field strength (dB μ V/m)		Limit	Margin	
	2390 MHz	2483.5 MHz	dB μ V/m	dB	
Peak Detector	55.5	58.6	74	18.5	15.4
Average Detector	35.5	38.6	54	18.5	15.4

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 = 2.91ms / (6.25ms * 79) = 0.59 % (see plot for DH5 frame on page 16)

Duty Cycle Correction factor = -20 x log(0.0059) = 44.6 dB

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

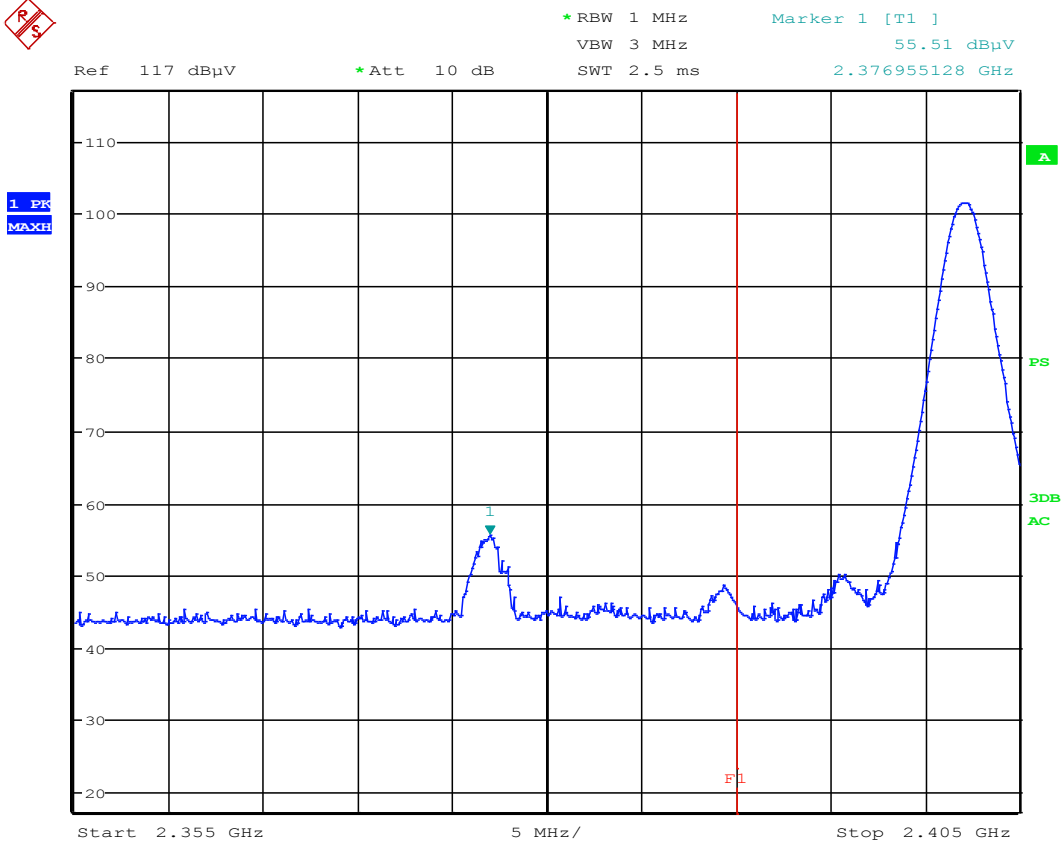
RF conducted power to 25 GHz see attached graph.

Maximum RF level outside operating band:

RF ch 0: >50 dB/C, margin >30 dB

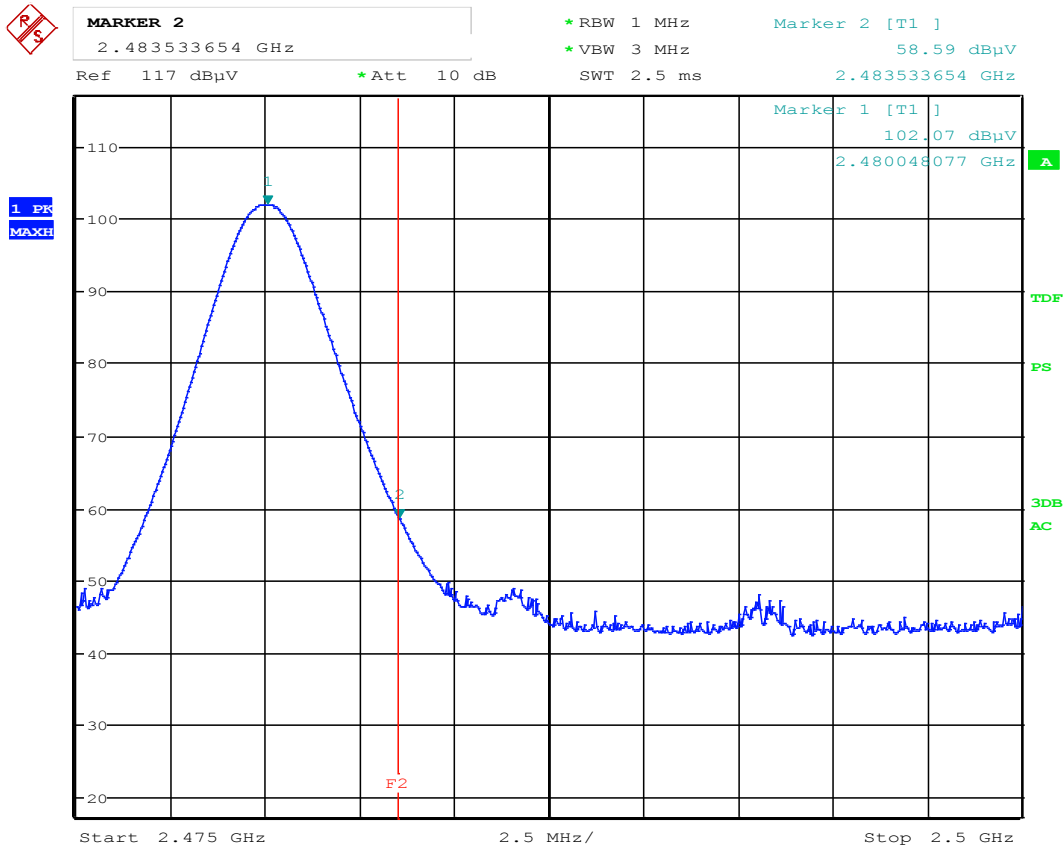
RF ch 39: >50 dB/C, margin >30 dB

RF ch 79: >50 dB/C, margin >30 dB



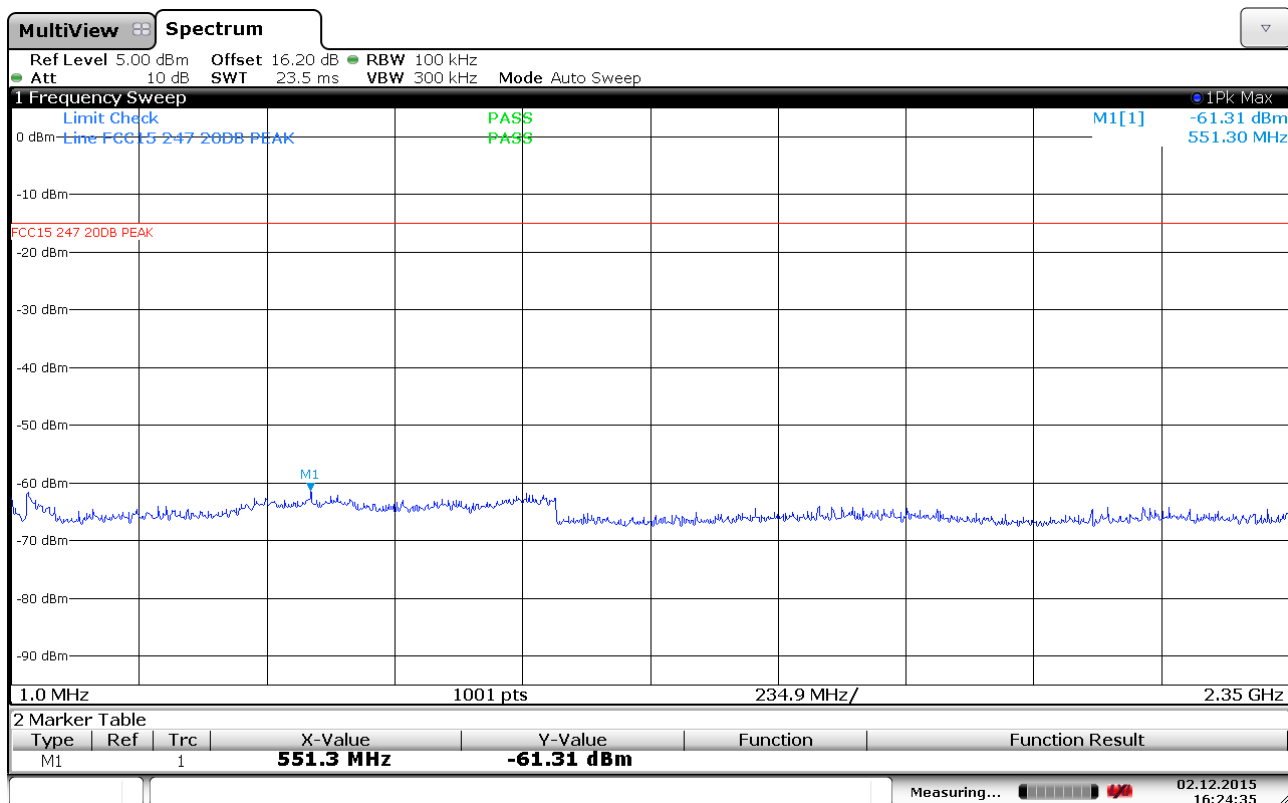
Date: 30.NOV.2015 15:19:51

Lower Band Edge, Radiated, 2402 MHz

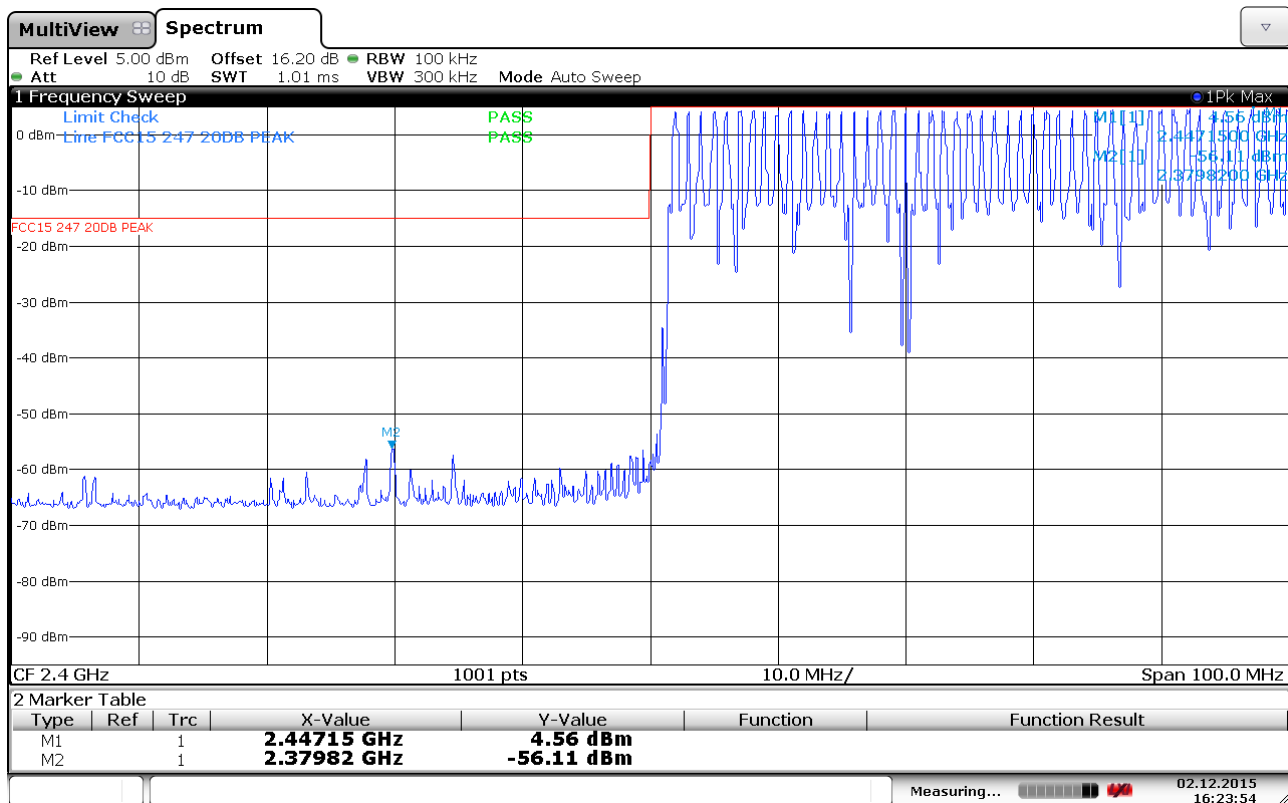


Date: 30.NOV.2015 15:39:24

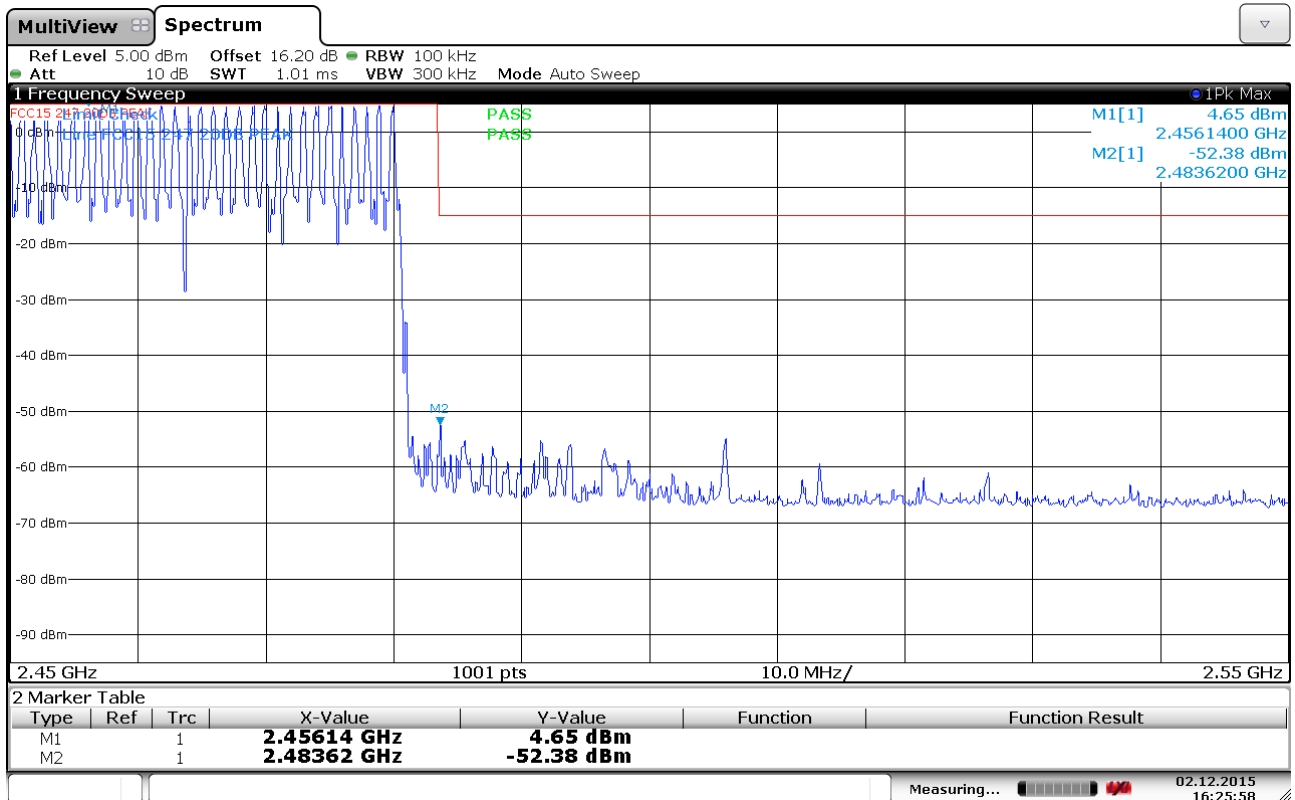
Upper Band Edge, Radiated, 2480 MHz



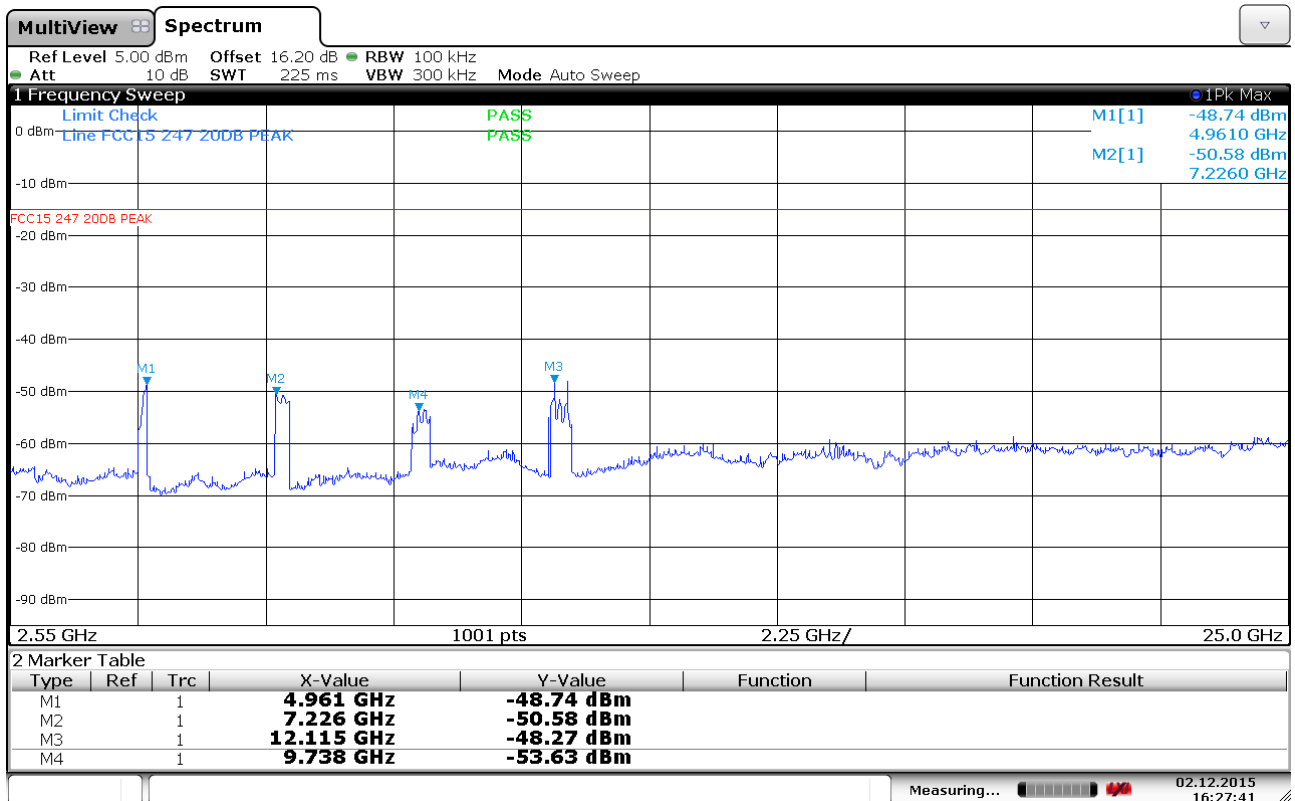
Conducted Emissions, 1 -2350 MHz, Hopping Active



Conducted Emissions, 2350 -2450 MHz, Hopping Active



Conducted Emissions, 2450 -2550 MHz, Hopping Active



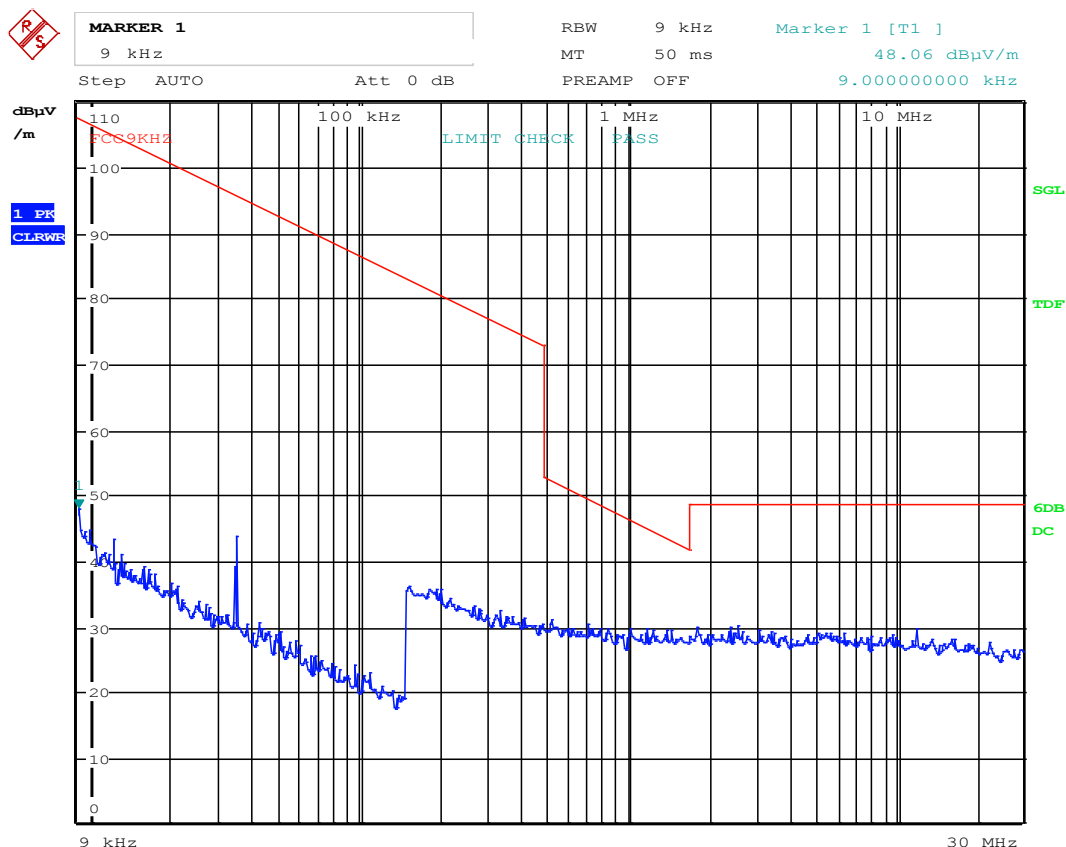
Conducted Emissions, 2550 -25000 MHz, Hopping Active

Radiated emissions 10 kHz-30 MHz.

Measuring distance 10 m, measured with Peak detector.

No component detected, see attached graph.

Limit is converted to 10 m using 40 dB/decade according to 15.31 (f) (2).



Date: 1.DEC.2015 10:21:10

Radiated emission 30 – 1000 MHz.

Detector: Quasi-Peak

Measuring distance 10 m according to CISPR 22.

Tested in burst mode with BT active.

No emissions detected.

See attached plots.



MARKER 1

200 MHz

*RBW 100 kHz

Marker 1 [T1]

VBW 300 kHz

15.29 dBμV/m

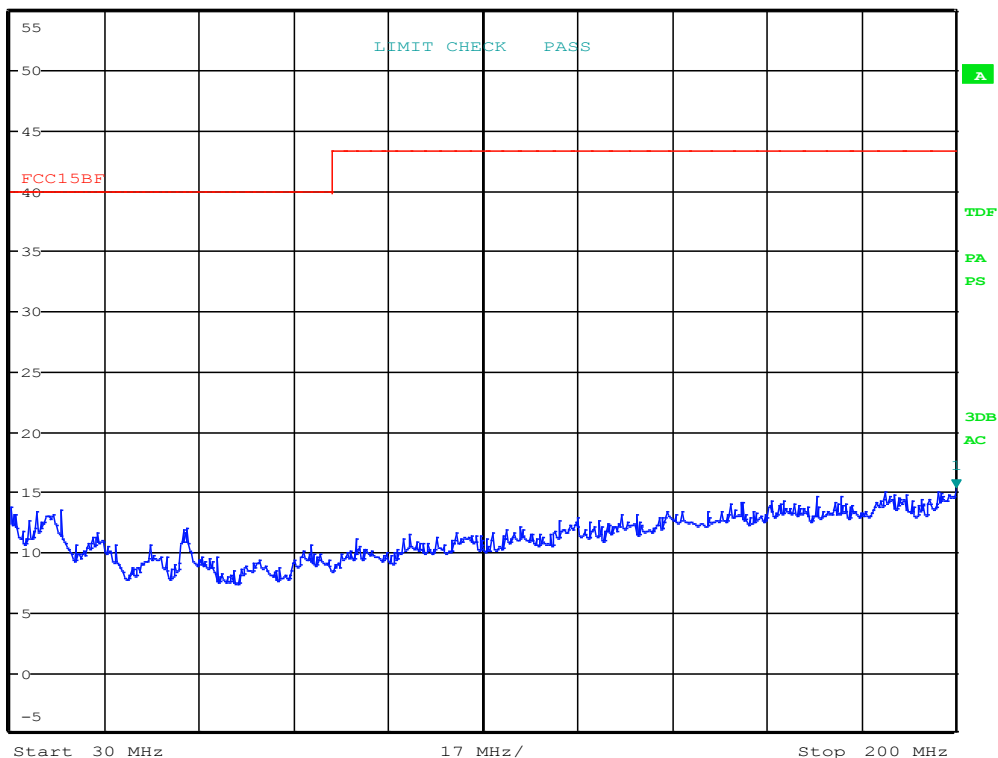
Ref 55 dBμV/m

*Att 10 dB

SWT 20 ms

200.00000000 MHz

1 PK
MAXH



Date: 1.DEC.2015 09:37:27

Radiated Emissions, 30 -200MHz, VP



MARKER 1

200 MHz

*RBW 100 kHz

Marker 1 [T1]

VBW 300 kHz

15.45 dBμV/m

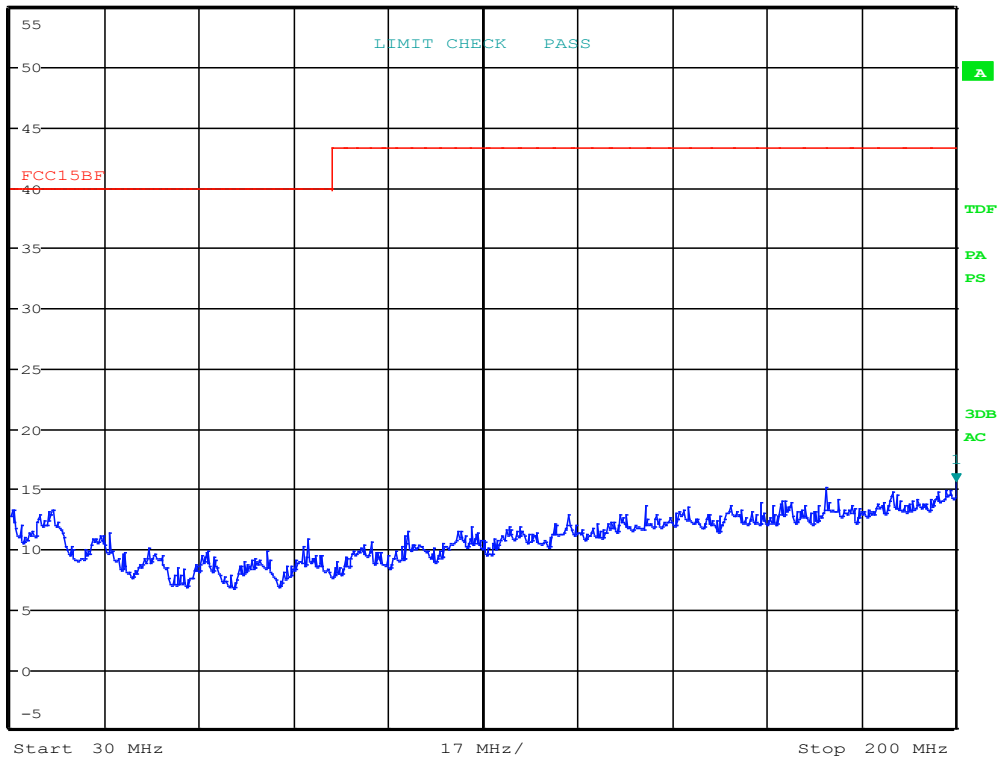
Ref 55 dBμV/m

*Att 10 dB

SWT 20 ms

200.00000000 MHz

1 PK
MAXH



Date: 1.DEC.2015 09:40:50

Radiated Emissions, 30 -200MHz, HP



MARKER 1

938.4615385 MHz

*RBW 100 kHz

Marker 1 [T1]

VBW 300 kHz

26.91 dBμV/m

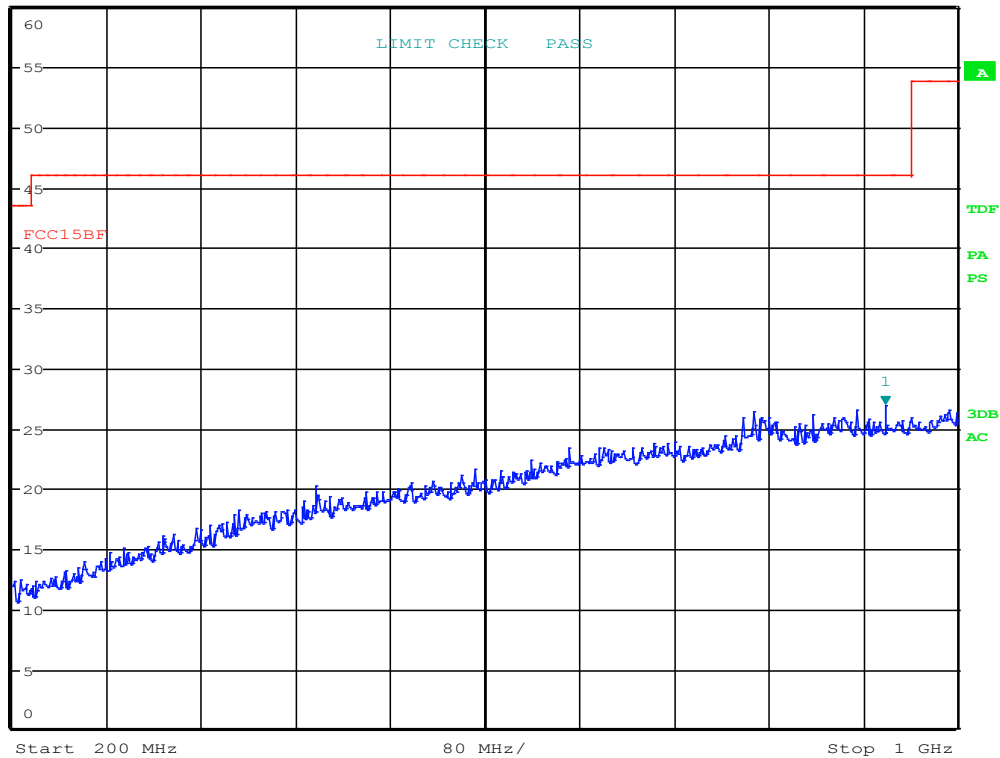
Ref 60 dBμV/m

*Att 10 dB

SWT 80 ms

938.461538462 MHz

1 PK
MAXH



Date: 1.DEC.2015 09:48:08

Radiated Emissions, 200 -1000MHz, VP



MARKER 1

961.5384615 MHz

*RBW 100 kHz

Marker 1 [T1]

VBW 300 kHz

26.77 dBμV/m

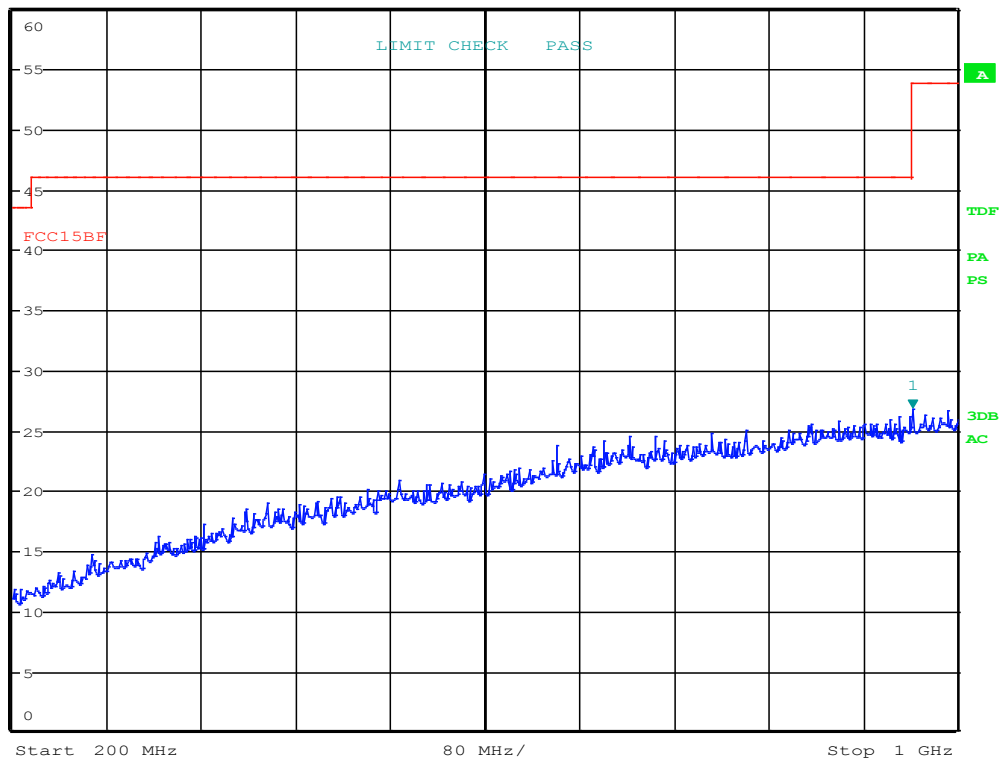
Ref 60 dBμV/m

*Att 10 dB

SWT 80 ms

961.538461538 MHz

1 PK
MAXH



Date: 1.DEC.2015 09:53:12

Radiated Emissions, 200 -1000MHz, HP

Radiated Emissions, 1-25 GHz

Measuring distance: 3m (1 – 8.5 GHz)
1m (5.5 – 25 GHz)

Peak Detector:

Frequency	RF channel	Dist. corr. factor	Field strength, Peak Detector, 3m	Limit	Margin
GHz	L,M,H	dB	dB μ V/m	dB μ V/m	dB
7.323	M	9.5	46.5	74	27.5
9.763	M	9.5	51.1	74	22.9
Other freqs	L,M,H	0	None detected	74	>20

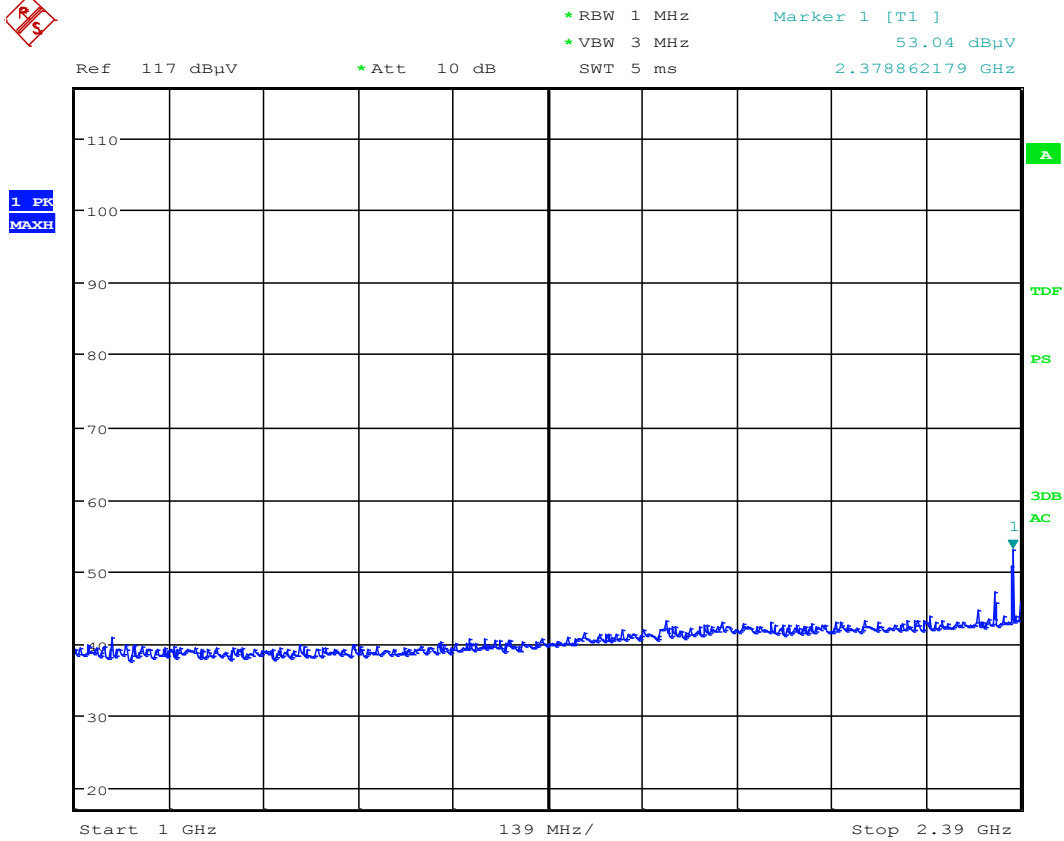
Average Detector:

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
7.323	M	9.5	26.5	20	54	27.5
9.763	M	9.5	31.1	20	54	22.9
Other freqs	L,M,H	/	None detected	20	54	>20

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

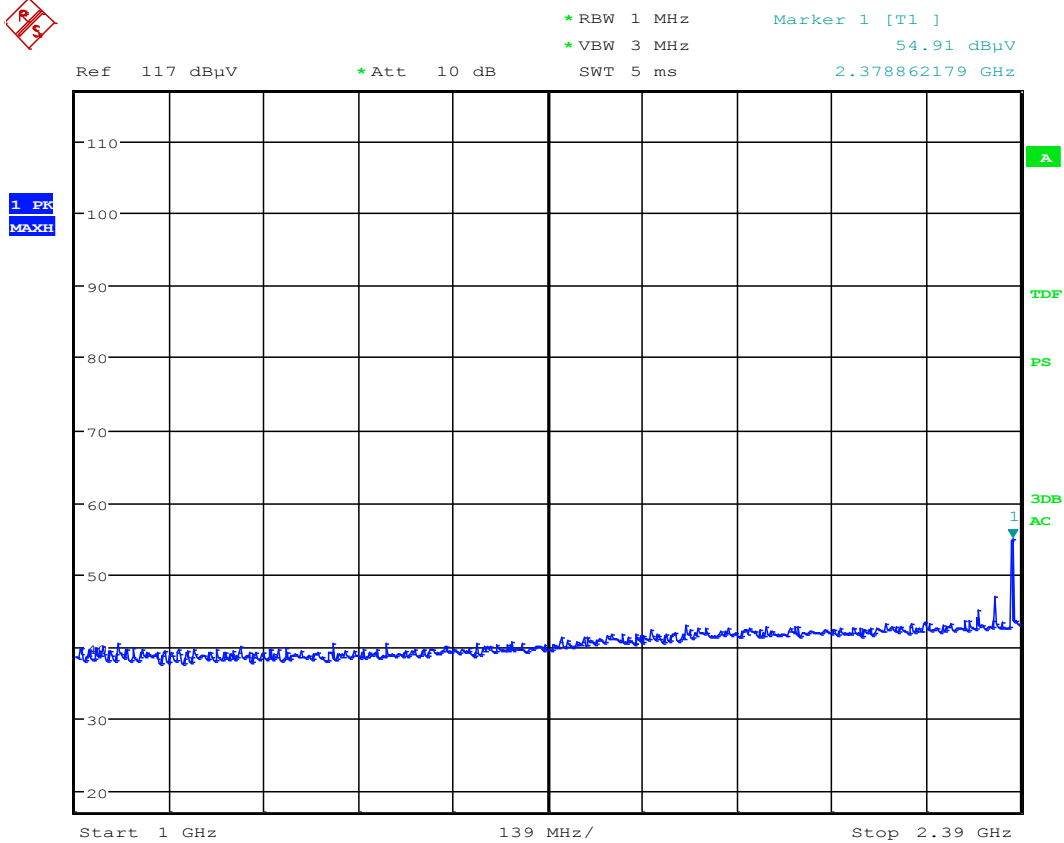
Antenna factor, amplifier gain and cable loss are included in spectrum analyzer "Transducer factor".

See plots.



Date: 30.NOV.2015 15:24:22

Radiated Emissions, 1000 -2390MHz, EUT H1, VP



Date: 30.NOV.2015 15:26:13

Radiated Emissions, 1000 -2390MHz, EUT H1, HP

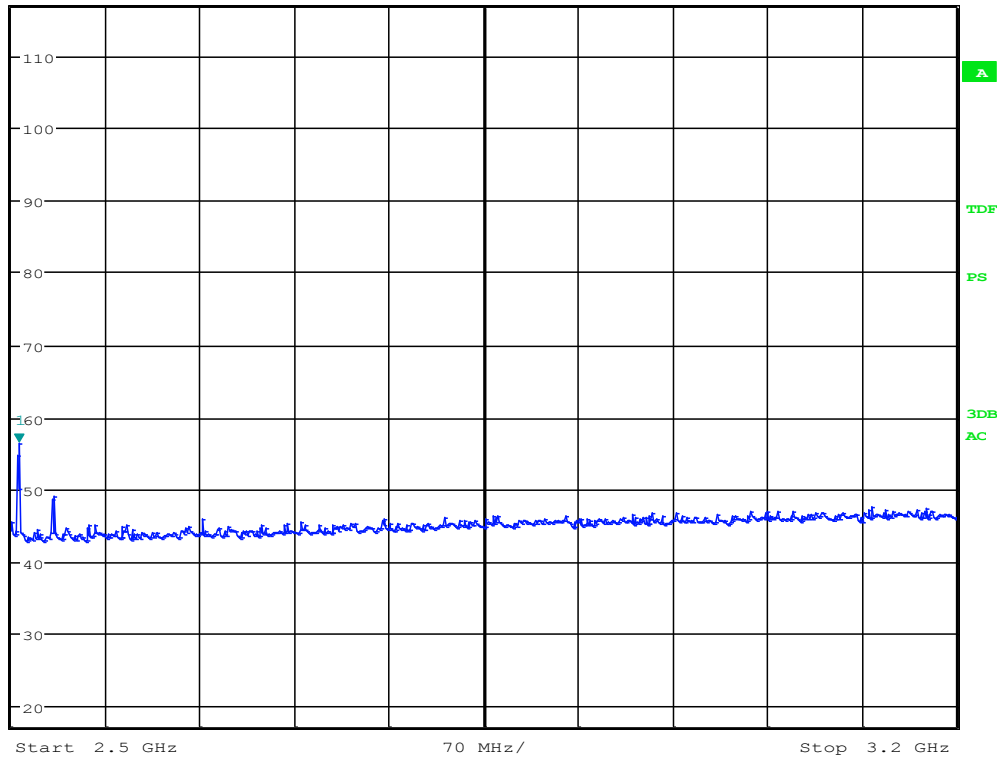


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 56.33 dBμV
SWT 2.5 ms 2.505608974 GHz

Ref 117 dBμV

*Att 10 dB

1 PK
MAXH



Date: 30.NOV.2015 15:42:56

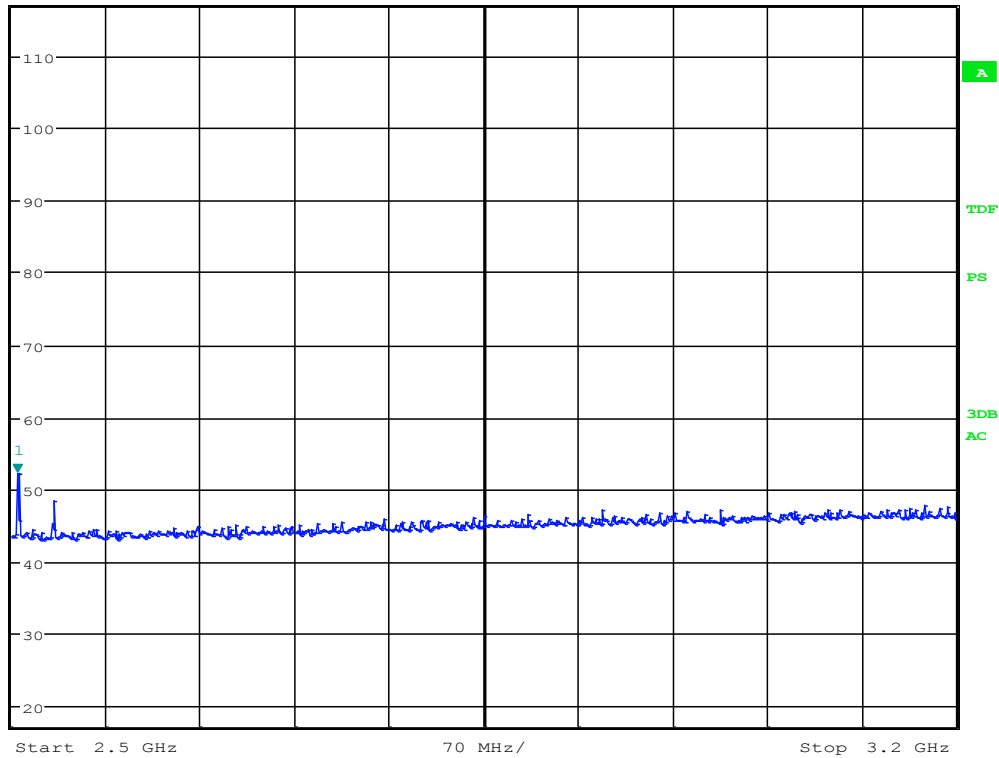
Radiated Emissions, 2500 -3200MHz, EUT H1, VP



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 52.27 dBμV
SWT 2.5 ms 2.504487179 GHz

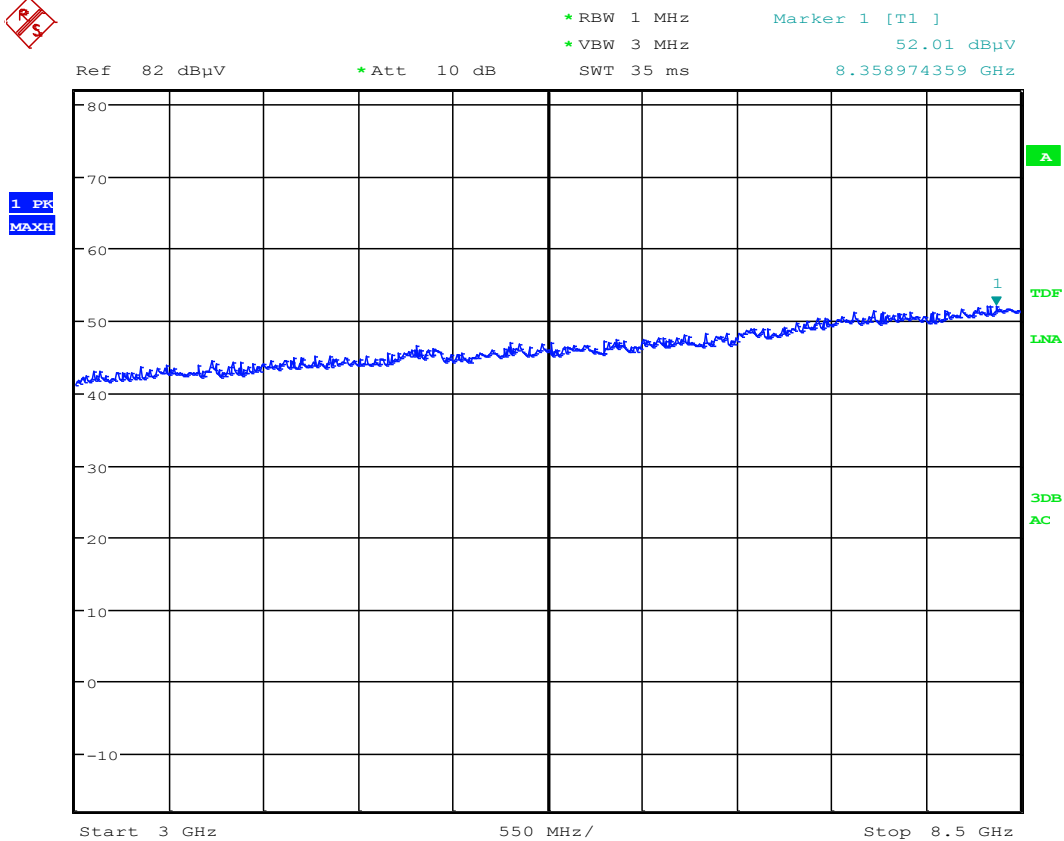
Ref 117 dBμV *Att 10 dB

1 PK
MAXH



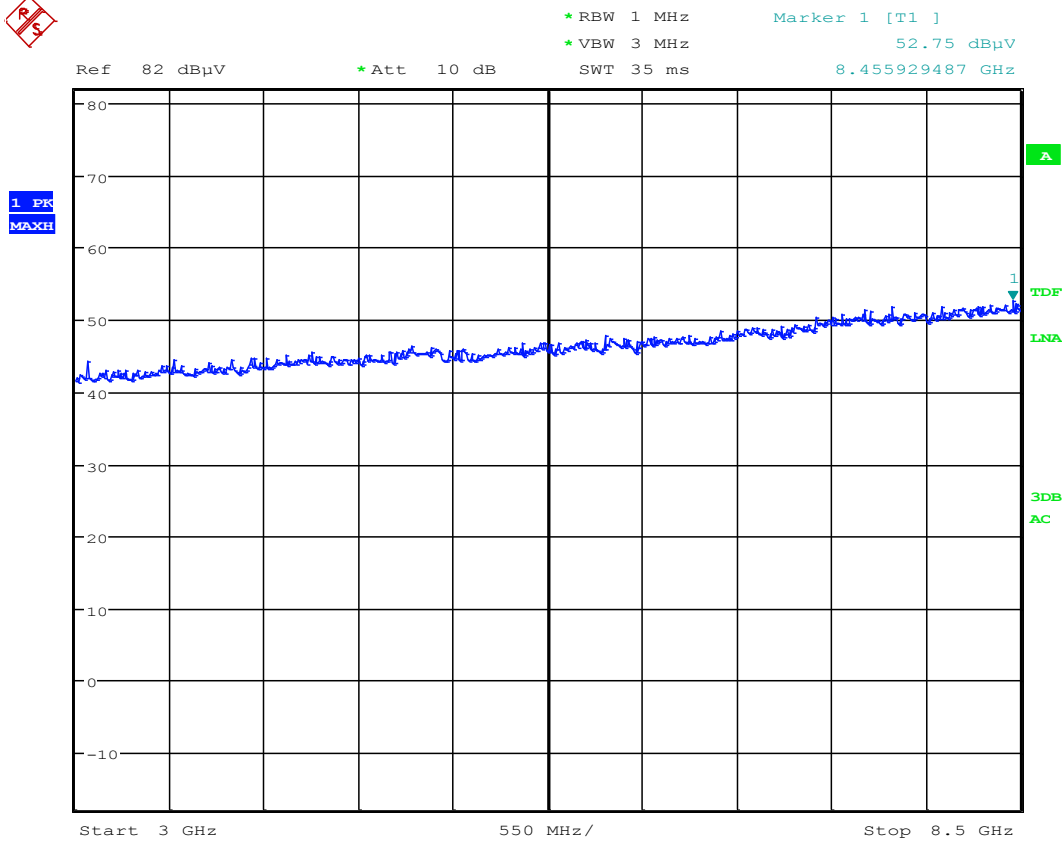
Date: 30.NOV.2015 15:44:47

Radiated Emissions, 2500 -3200MHz, EUT H1, HP



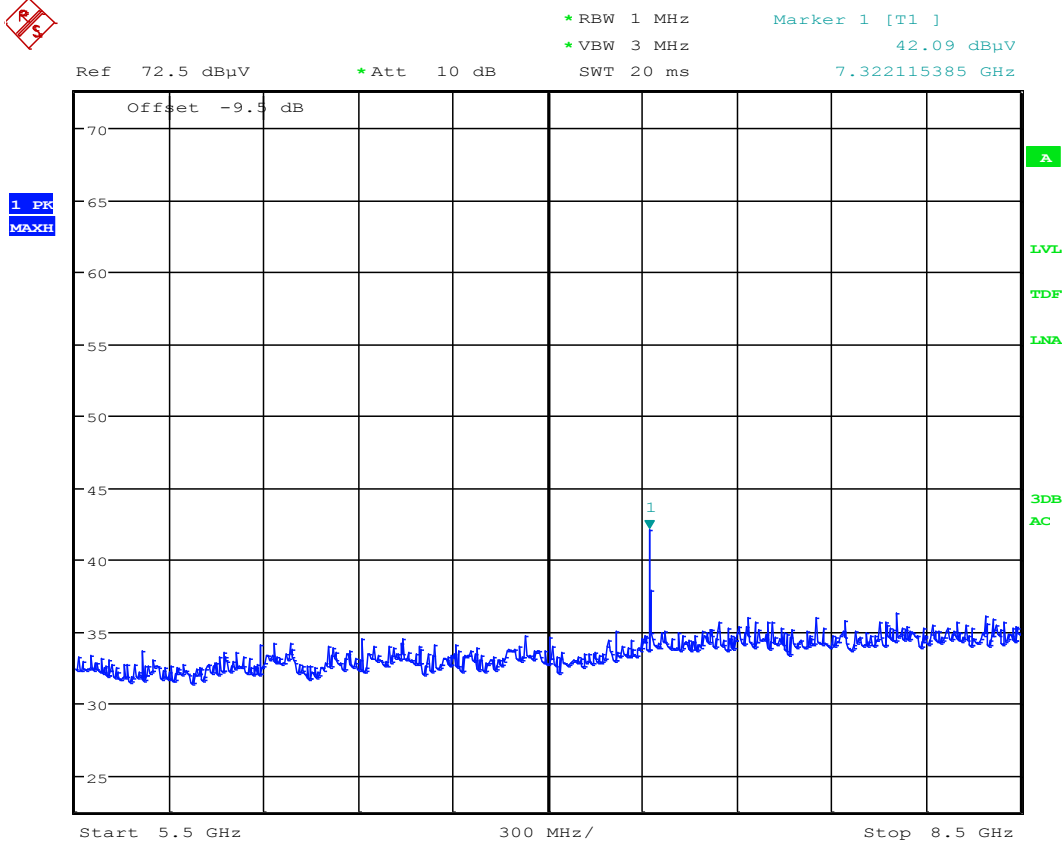
Date: 30.NOV.2015 15:51:48

Radiated Emissions, 3000 -8500MHz, VP



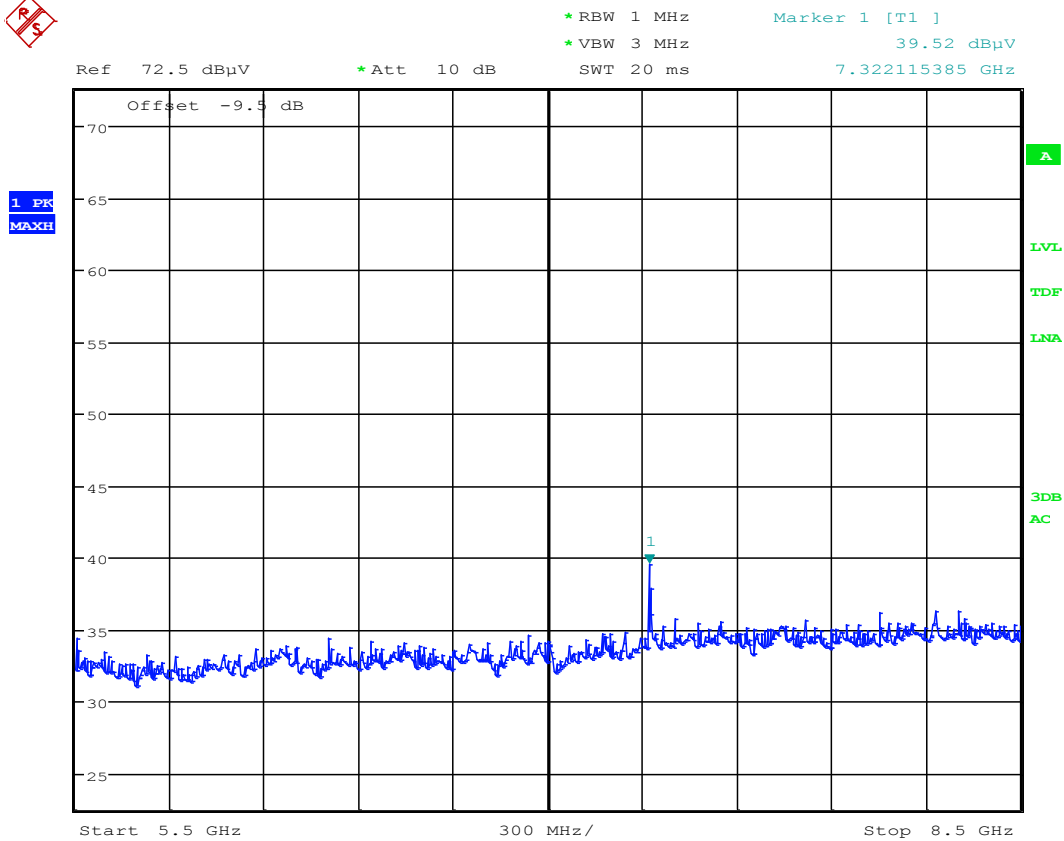
Date: 30.NOV.2015 15:53:40

Radiated Emissions, 3000 -8500MHz, HP



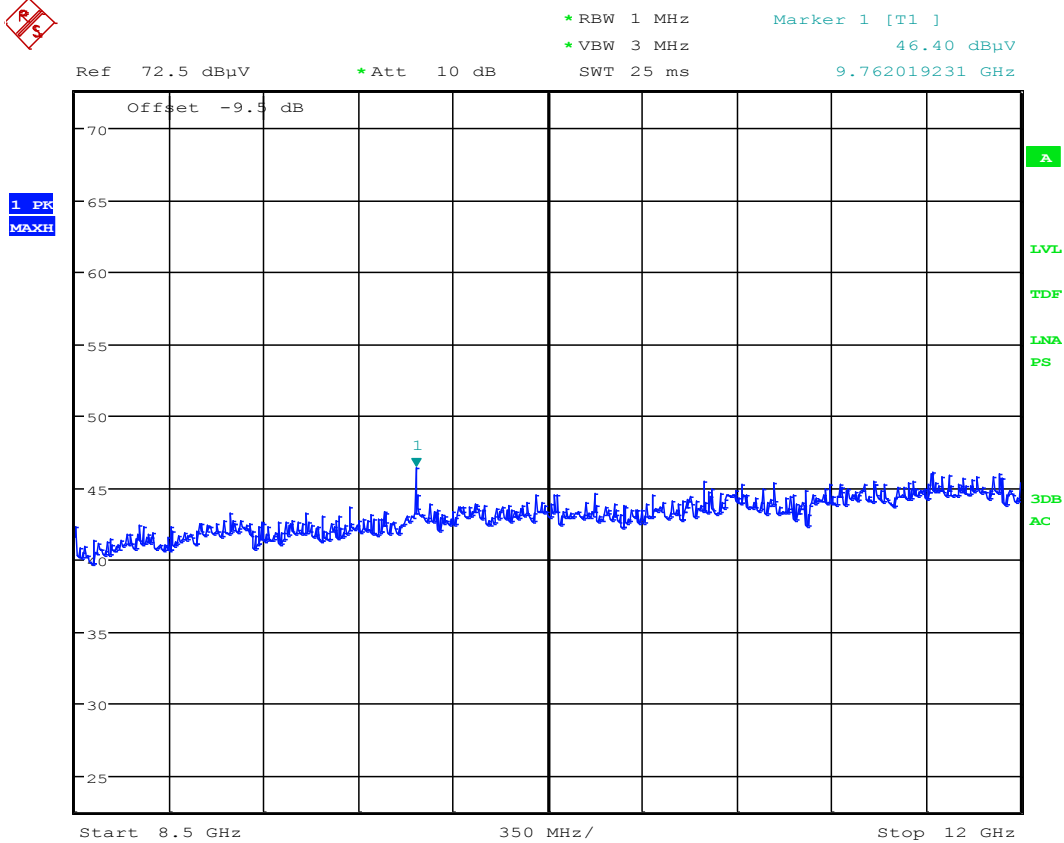
Date: 30.NOV.2015 17:49:15

Radiated Emissions, 5500 -8500MHz, VP, 1m



Date: 30.NOV.2015 17:51:07

Radiated Emissions, 5500 -8500MHz, HP, 1m

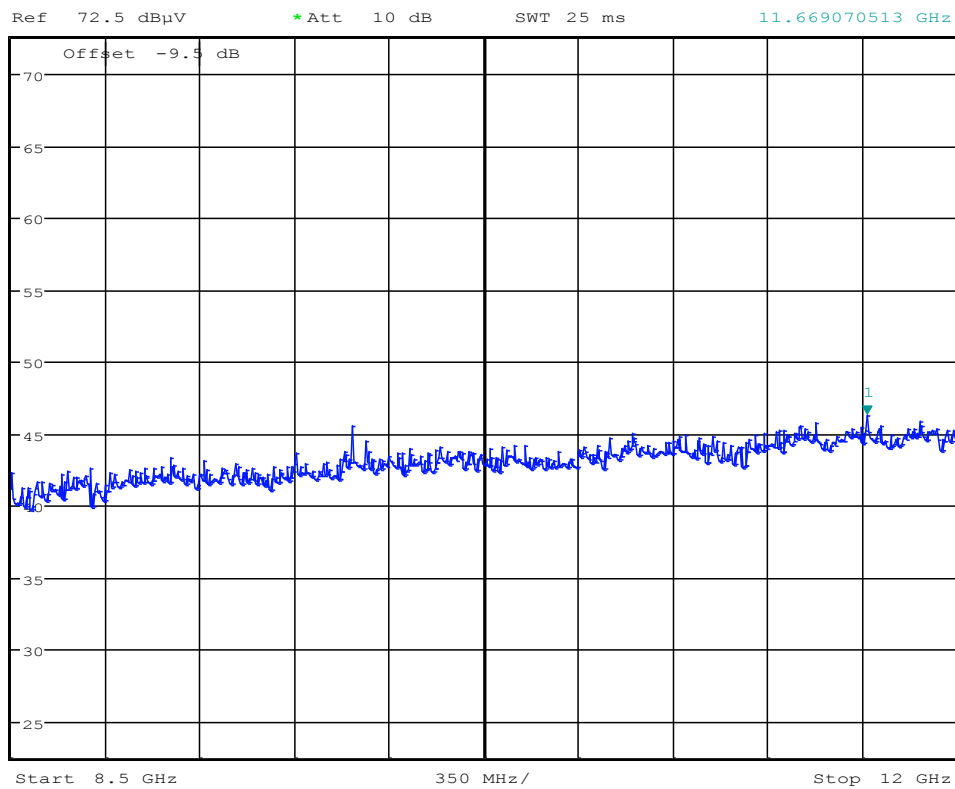


Date: 30.NOV.2015 17:55:43

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



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 46.31 dBμV
SWT 25 ms 11.669070513 GHz



Date: 30.NOV.2015 17:57:36

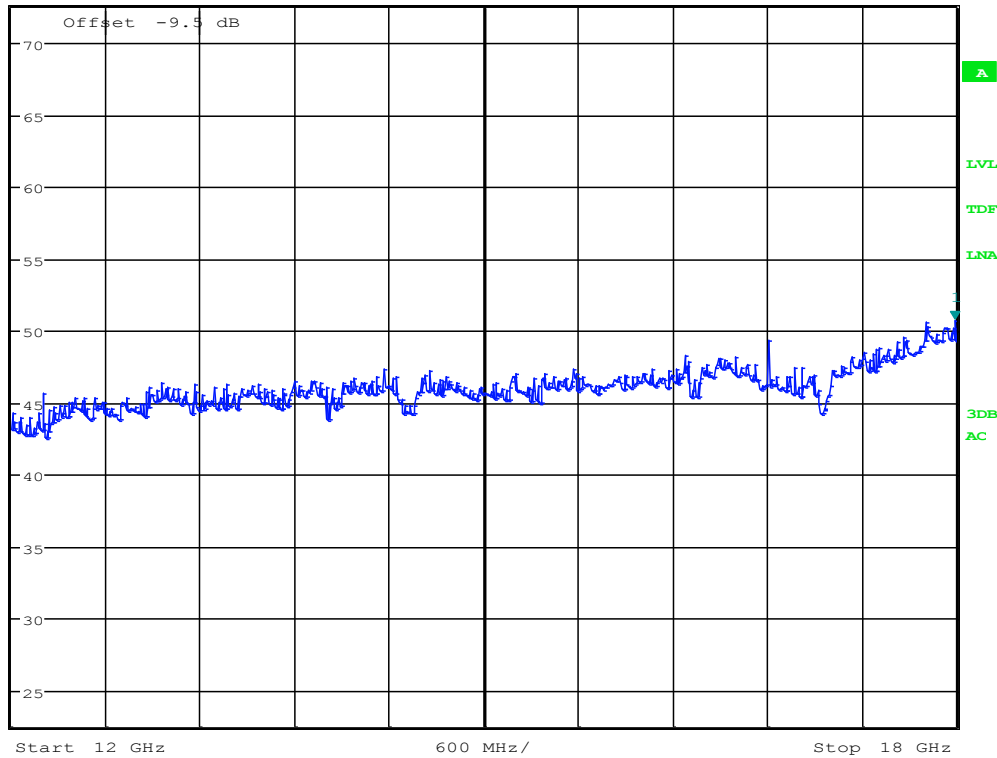
Radiated Emissions, 8500 -12000MHz, HP, 1m



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 50.68 dBμV
SWT 35 ms 17.990384615 GHz

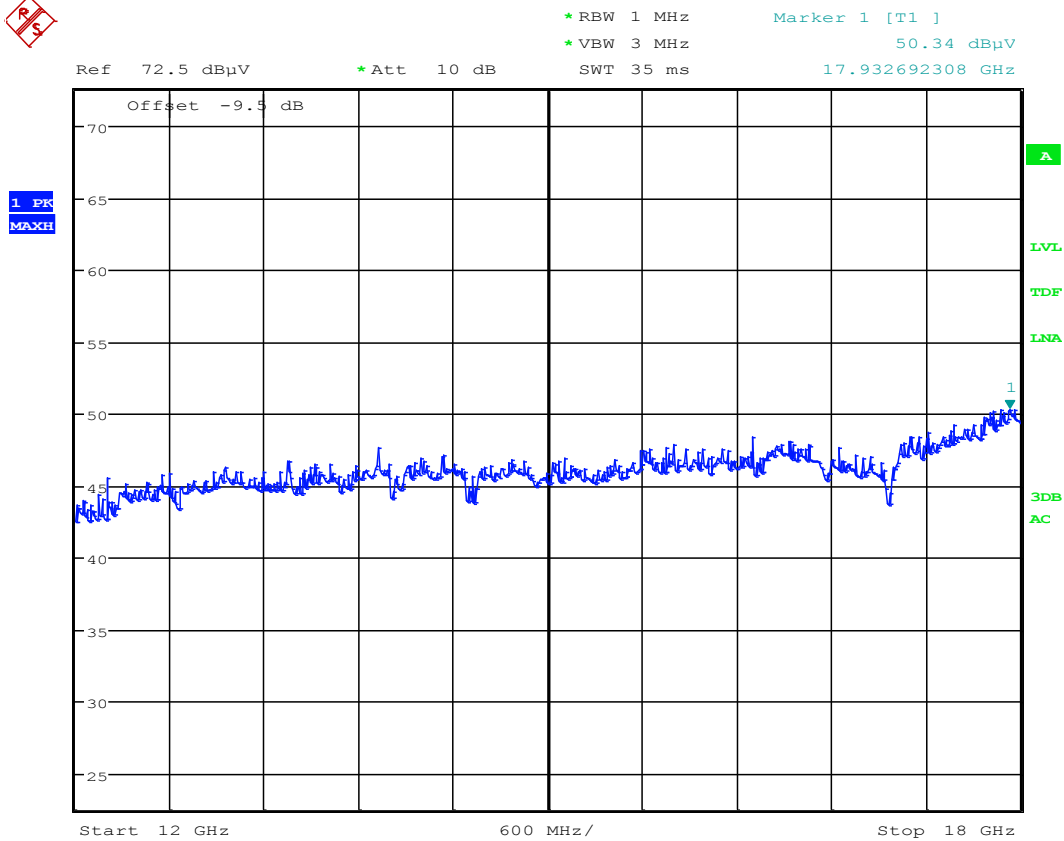
Ref 72.5 dBμV *Att 10 dB Offset -9.5 dB

1 PK
MAXH



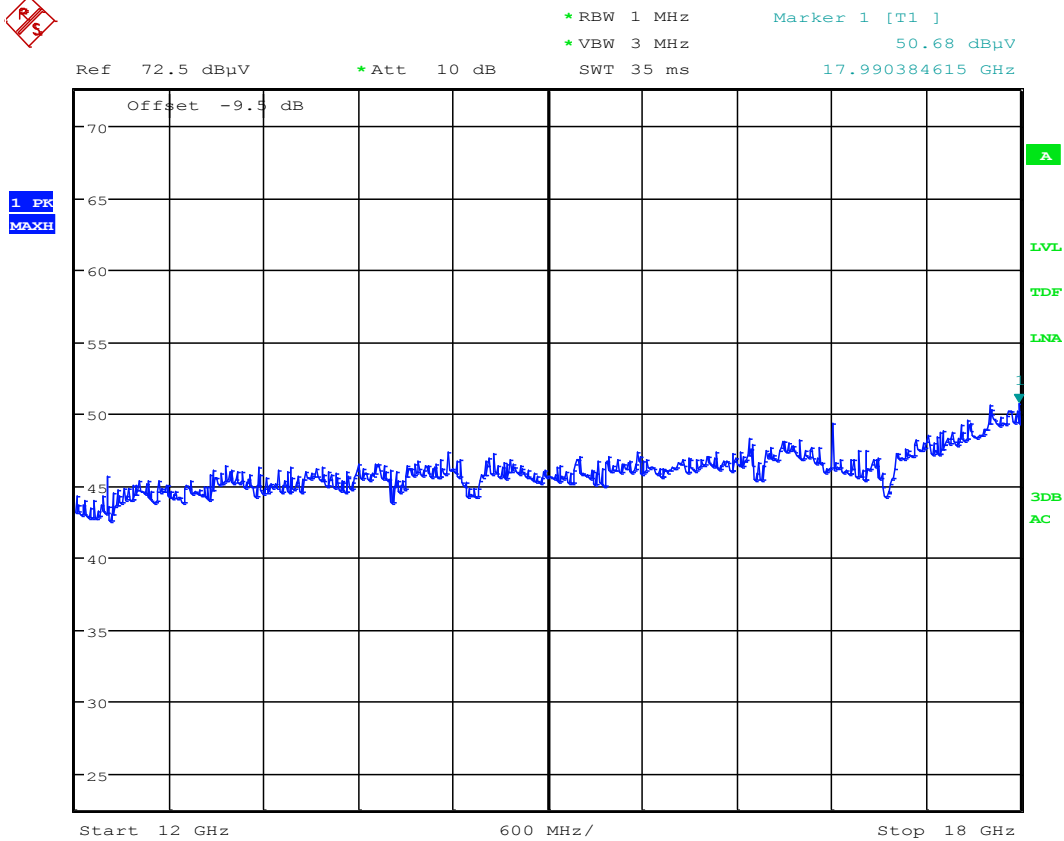
Date: 30.NOV.2015 18:38:17

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



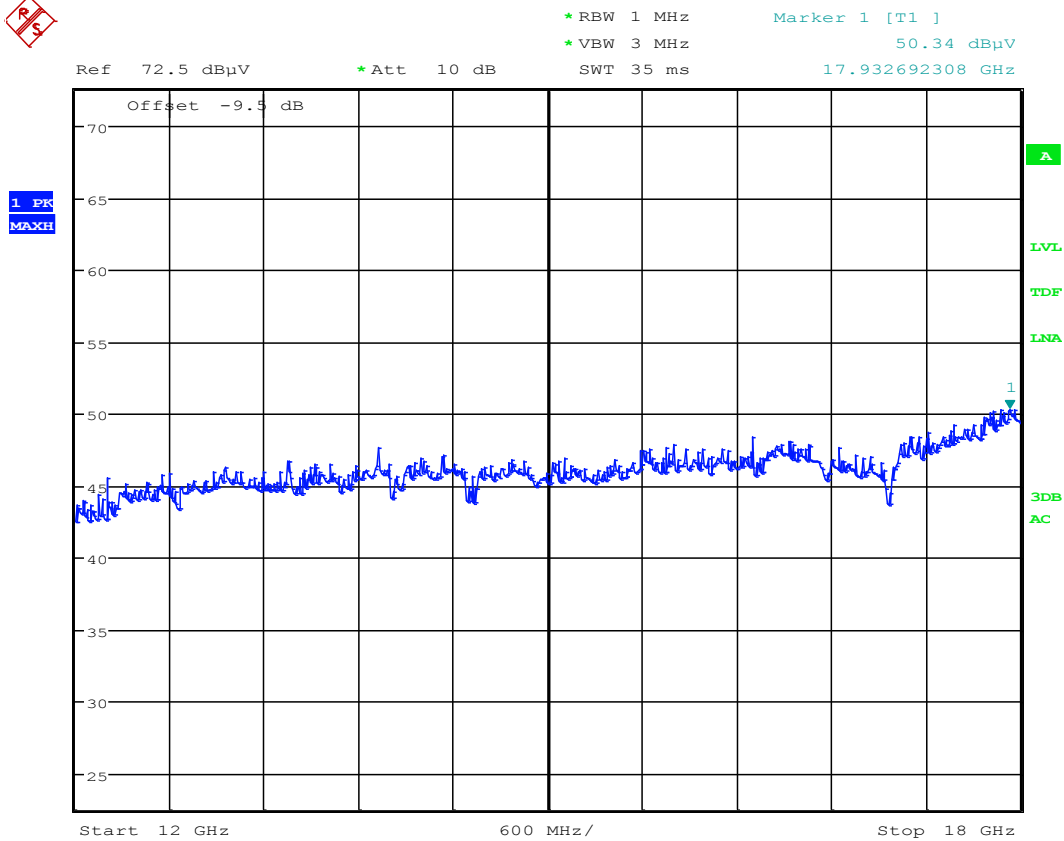
Date: 30.NOV.2015 18:40:09

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



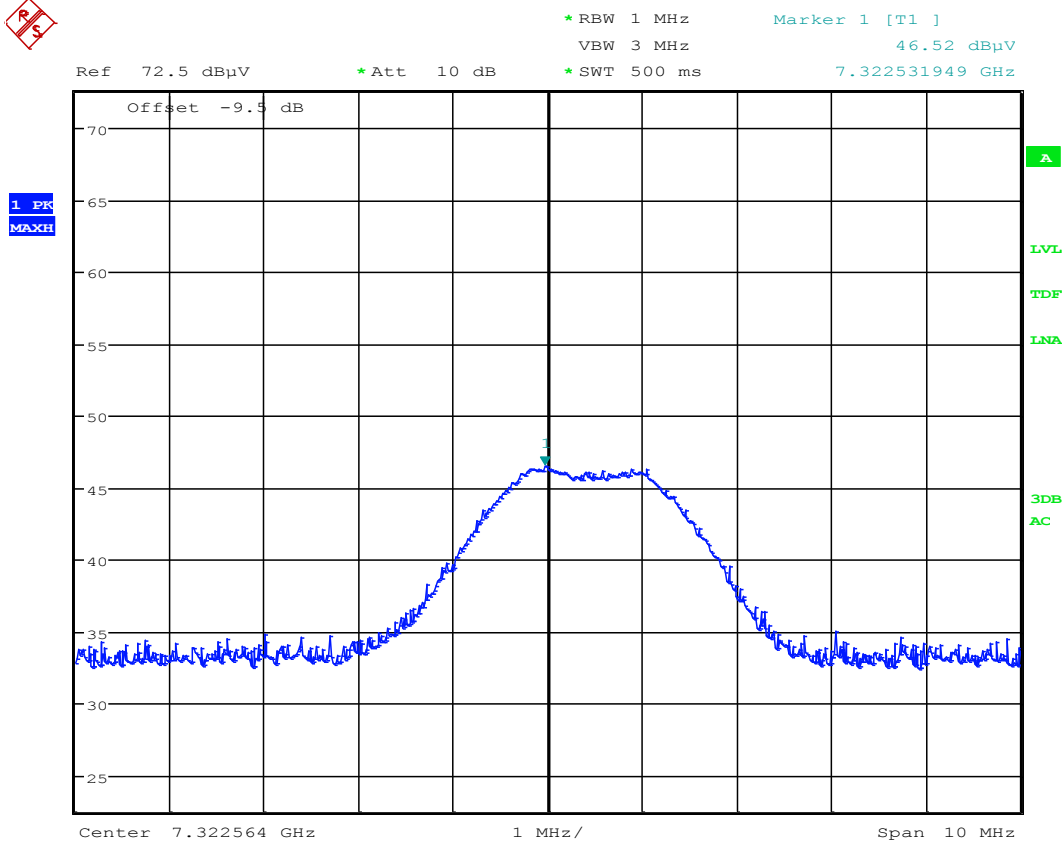
Date: 30.NOV.2015 18:38:17

Radiated Emissions, 18000 -25000MHz, VP, 1m



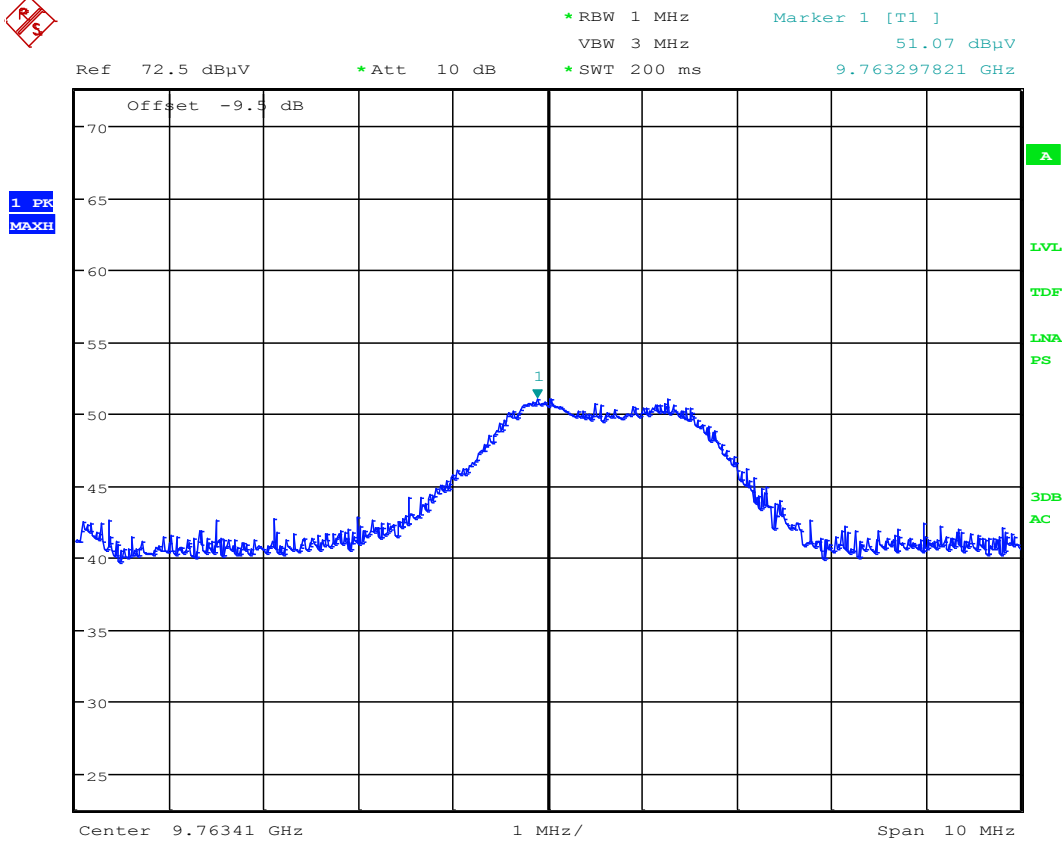
Date: 30.NOV.2015 18:40:09

Radiated Emissions, 18000 -25000MHz, HP, 1m



Date: 30.NOV.2015 16:45:31

Radiated Emissions, 7322.6 MHz, EUT H2, VP, 1m



Date: 30.NOV.2015 18:17:22

Radiated Emissions, 9763.4 MHz, EUT H2, HP, 1m

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

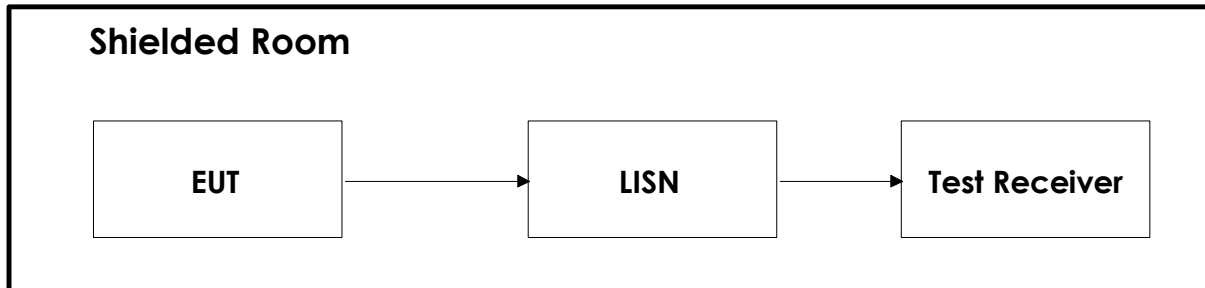
5 LIST OF TEST EQUIPMENT

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.

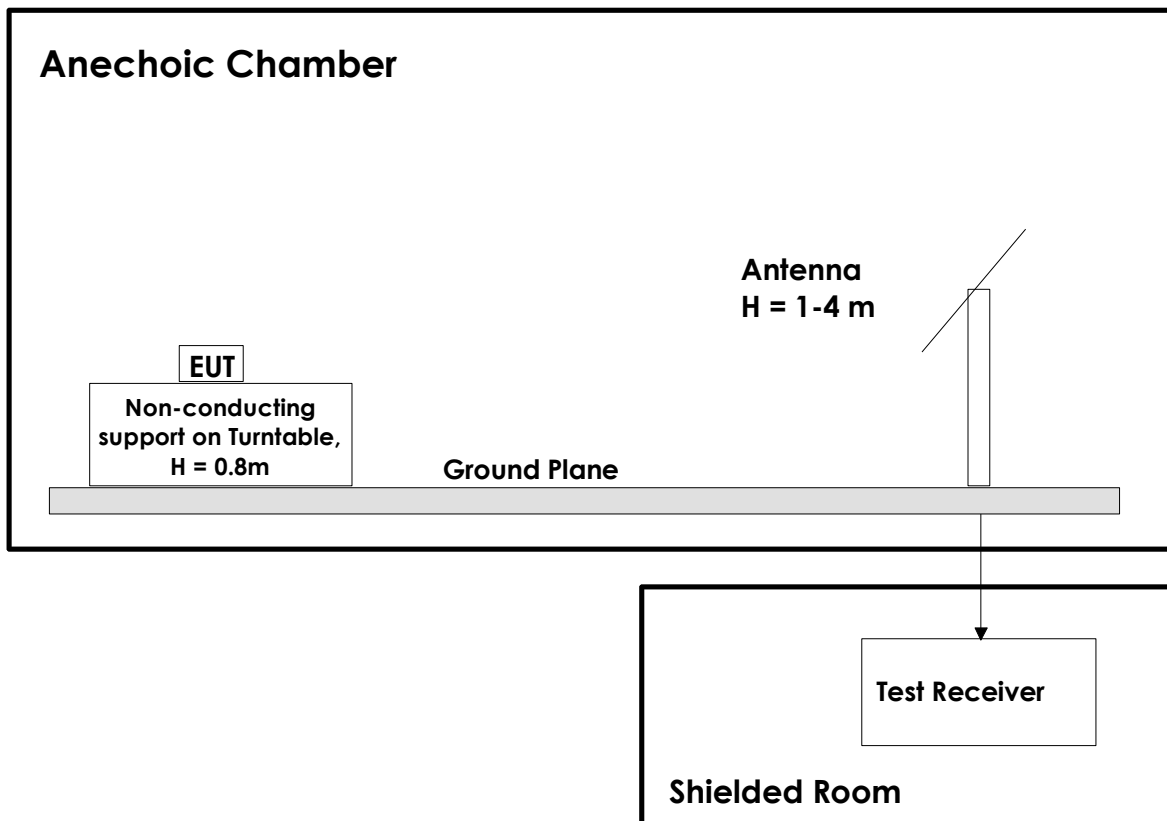
No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1	FSW26	Spectrum Analyzer	Rohde & Schwarz	LR 1640	2015.11	2016.11
2	ESU40	Measuring Receiver	Rohde & Schwarz	LR 1639	2015.11	2016.11
3	6810.17B	Attenuator	Suhner	LR 1669	Cal b4 use	
4	6HC3000/18000	Highpass Filter	Trilithic	LR 1614	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	LR 1599	2015.10	2016.10
16	ESHS10	EMI	Rohde & Schwarz	N 3528	2015.08	2016.08
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 < 1GHz



The same test set-up was used for measurements above 1 GHz, but here the EUT was placed on a 1.5m support table and the ground plane was covered by absorbers.

Revision history

Version	Date	Comment	Sign
1.0	2016.03.16	Edition for TCB Review	FS
2.0	2016.09.16	Changes after TCB review	FS