

FCC TEST REPORT

No. 160502861SHA-001

Applicant : Hoover, Inc.
7005 Cochran Road, Glenwillow Ohio 44139

Manufacturer site : Suzhou RealPower Electric Appliance Co., Ltd.
No.9 Shiyang Road, New District, Suzhou, China

Product Name : Robotic Vacuum cleaner

Type/Model : BH70700, BH70700CA

TEST RESULT : PASS

SUMMARY

The equipment complies with the requirements according to the following standard(s) or specification:

47CFR Part 15 (2015): Radio Frequency Devices

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

RSS-247 Issue 1 (May 2015): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen Issue 4 (December 2014): General Requirements for Compliance of Radio Apparatus

Date of issue: July 20, 2016

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1 GENERAL INFORMATION

1.1 Description of Client

Applicant : Hoover, Inc.

7005 Cochran Road, Glenwillow Ohio 44139

Manufacturer site : Suzhou RealPower Electric Appliance Co., Ltd.

No.9 Shiyang Road, New District, Suzhou, China

1.2 Identification of the EUT

Product Name : Robotic Vacuum cleaner

Type/model : BH70700, BH70700CA

FCC ID : 2AIPV-BH70700

IC : 21618-BH70700

1.3 Technical Specification

Operation Frequency : 2400 – 2483.5 MHz
Band
Protocol : Bluetooth BLE
Type of Modulation : GFSK
Channel Number : 40 channels
Description of EUT : EUT is a Robotic Vacuum cleaner, and has two models. They are the same except the model name. BH70700 is only sold in USA, and BH70700CA is only sold in Canada.
Antenna : PCB antenna, 1dBi max
Rating : 12V DC, NiMH 2000mAh
With charger:
Input: 100-240V~, 50/60Hz
Output: 19V DC
Category of EUT : Class B
EUT type : Table top
 Floor standing
Sample received date : May 27, 2016
Date of test : May 27, 2016 – July 15, 2015

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2015)
RSS-247 Issue 1 (May 2015)
RSS-Gen Issue 4 (December 2014)
ANSI C63.10 (2013)
KDB 558074 (v03r05)

2.2 Mode of operation during the test

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

The lowest, middle and highest channel were tested as representatives.

Freq. Band (MHz)	Modulation	Lowest (MHz)	Middle (MHz)	Highest (MHz)
2400-2483.5	GFSK	2402	2440	2480

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Laptop computer	HP, EliteBook 2530P	-

2.5 Instrument list

Selected	Instrument	EC no.	Model	Valid until date
<input checked="" type="checkbox"/>	Shielded room	EC 2838	GB88	2017-1-8
<input checked="" type="checkbox"/>	EMI test receiver	EC 2107	ESCS 30	2016-10-19
<input checked="" type="checkbox"/>	A.M.N.	EC 3119	ESH2-Z5	2016-12-16
<input type="checkbox"/>	A.M.N.	EC 3394	ENV 216	2016-8-1
<input checked="" type="checkbox"/>	Semi anechoic chamber	EC 3048	-	2017-5-11
<input checked="" type="checkbox"/>	EMI test receiver	EC 3045	ESIB26	2016-10-19
<input checked="" type="checkbox"/>	Broadband antenna	EC 4206	CBL 6112D	2017-4-27
<input checked="" type="checkbox"/>	Horn antenna	EC 3049	HF906	2017-4-27
<input type="checkbox"/>	Horn antenna	EC 4792-1	3117	2017-4-21
<input type="checkbox"/>	Horn antenna	EC 4792-3	HAP18-26W	2017-6-11
<input checked="" type="checkbox"/>	Pre-amplifier	EC 5262	pre-amp 18	2017-5-25
<input type="checkbox"/>	Pre-amplifier	EC 4792-2	TPA0118-40	2017-4-10
<input type="checkbox"/>	Test Receiver	EC 4501	ESCI 7	2017-1-13
<input checked="" type="checkbox"/>	PXA Signal Analyzer	EC5338	N9030A	2016-11-17
<input checked="" type="checkbox"/>	Power sensor/Power meter	EC4318	N1911A/N1921A	2017-4-8
<input type="checkbox"/>	Power sensor	EC5338-1	U2021XA	2017-3-5
<input type="checkbox"/>	MXG Analog Signal Generator	EC5338-2	N5181A	2017-3-5
<input type="checkbox"/>	MXG Vector Signal Generator	EC5175	N51812B	2017-1-8

2.6 Test Summary

This report applies to tested sample only. The test results have been compared directly with the limits, and the measurement uncertainty is recorded. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

TEST ITEM	FCC REFERENCE	IC REFERENCE	RESULT
Minimum 6dB Bandwidth	15.247(a)(2)	RSS-247 Issue 1 Annex 5.2	Pass
Maximum peak output power	15.247(b)	RSS-247 Issue 1 Annex 5.4	Pass
Power spectrum density	15.247(e)	RSS-247 Issue 1 Annex 5.2	Pass
Radiated Emissions in restricted frequency bands	15.205 & 15.209	RSS-Gen Issue 4 Clause 8.9	Pass
Emission outside the frequency band	15.247(d)	RSS-247 Issue 1 Annex 5.5	Pass
Power line conducted emission	15.207	RSS-Gen Issue 4 Clause 8.8	Pass
Occupied bandwidth	-	RSS-Gen Issue 4 Clause 6.6	Tested

Notes: 1: NA =Not Applicable

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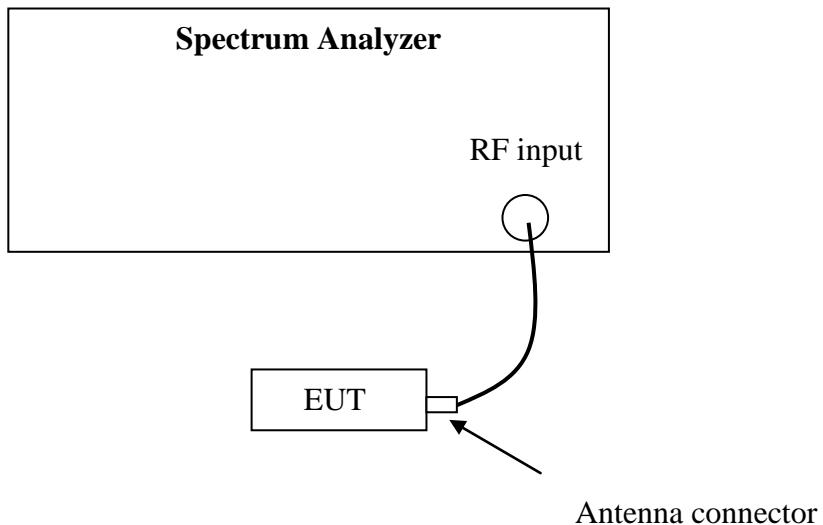
3 Minimum 6dB Bandwidth

Test result: Pass

3.1 Limit

For systems using digital modulation techniques that 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.

3.2 Test Configuration



3.3 Test Procedure and test setup

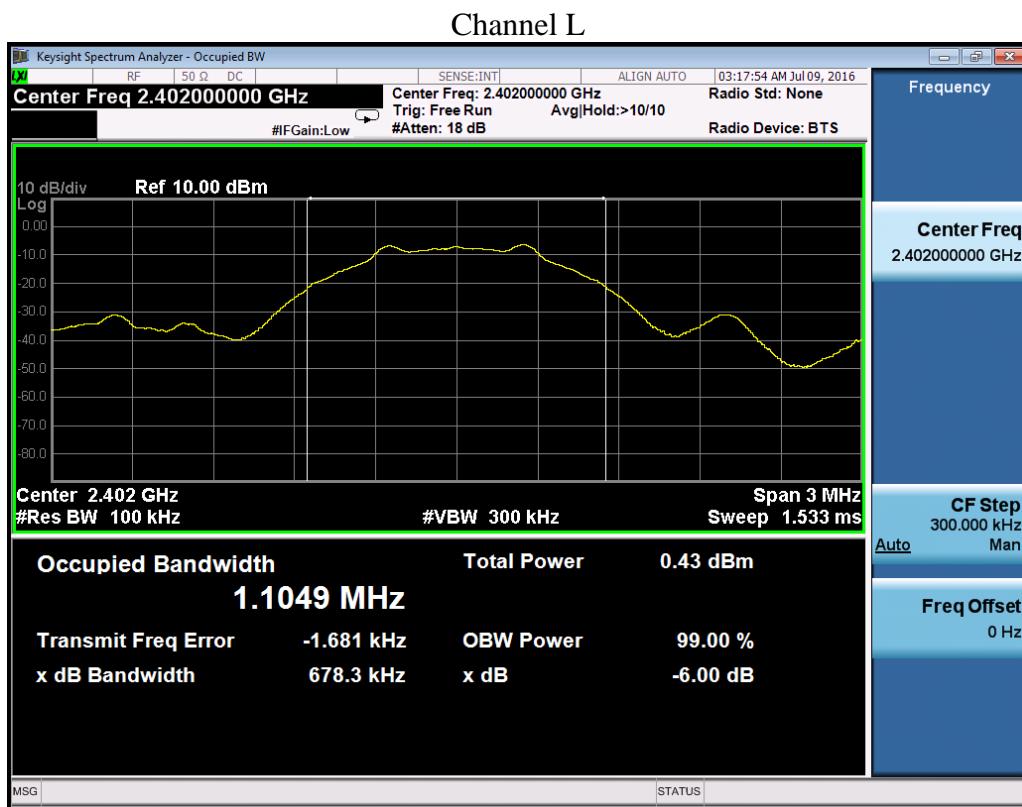
The minimum 6dB bandwidth per FCC §15.247(a)(2) is measured using the Spectrum Analyzer according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” for compliance to FCC 47CFR 15.247 requirements(clause 8.2).

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

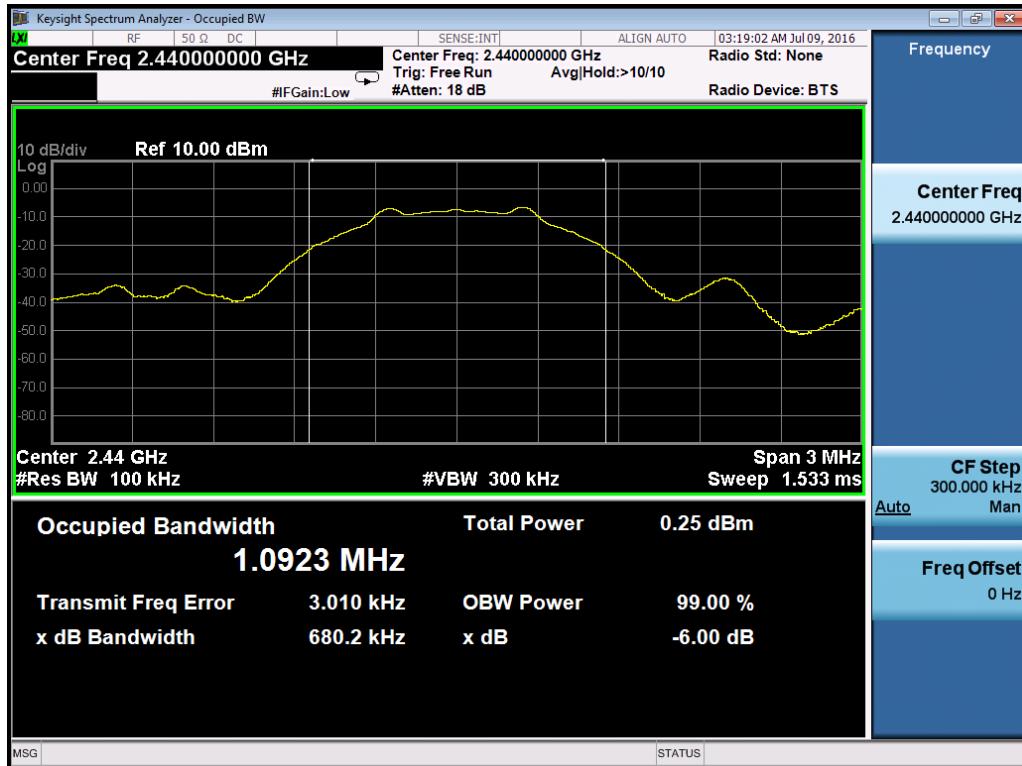
3.4 Test Protocol

Temperature: 22°C
Relative Humidity: 54%

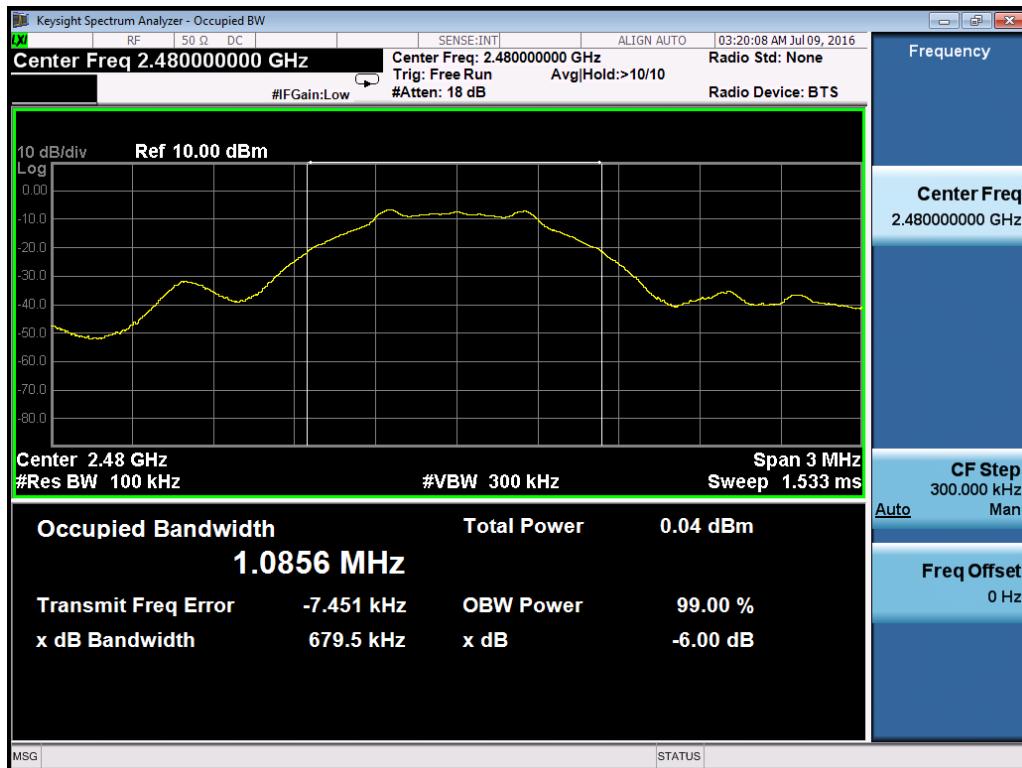
Mode	Channel	Minimum 6dB Bandwidth (kHz)	Limits (MHz)
BLE	L	678.3	≥ 0.5
	M	680.2	≥ 0.5
	H	679.5	≥ 0.5



Channel M



Channel H



4 Maximum Conducted Output power

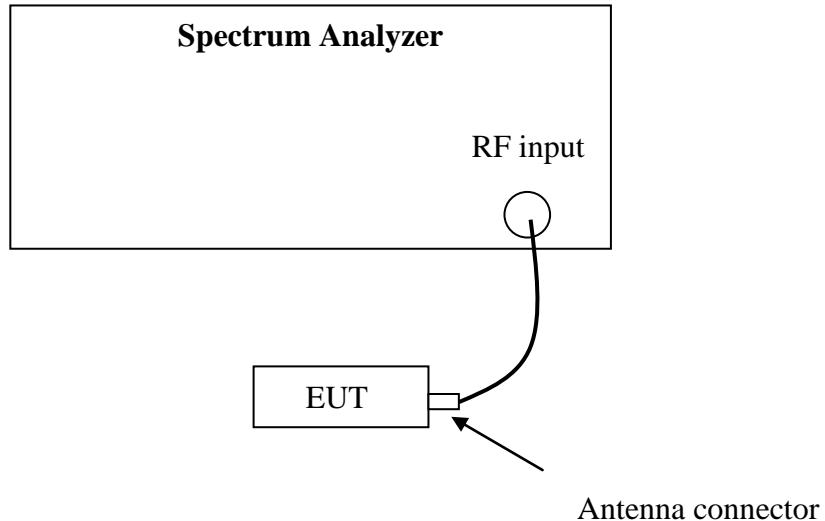
Test result: Pass

4.1 Test limit

- For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt
- For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts
- For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt (EIRP: 4 watt).

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 30dBm and 30+ (6 –antenna gain-beam forming gain).

4.2 Test Configuration



4.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” for compliance to FCC 47CFR 15.247 requirements (clause 9.2.2.4).

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

4.4 Test protocol

Temperature: 22 °C
Relative Humidity: 54 %

Mode	Channel	Conducted Power (dBm)	Limit (dBm)
BLE	L	-5.415	30
	M	-5.317	30
	H	-5.584	30

*The maximum EIRP of the EUT = -5.317 dBm + 1dB_i = -4.317dBm = 0.37mW
which is lower than the EIRP limit of RSS-247.*

5 Power spectrum density

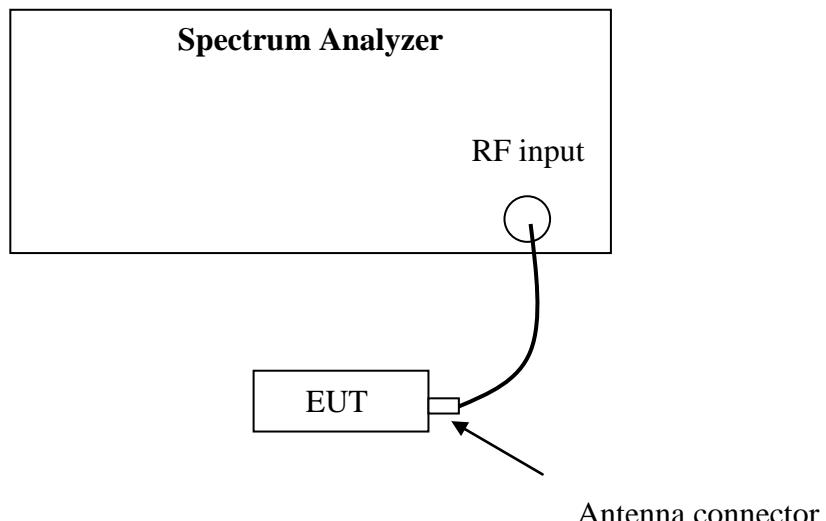
Test result: Pass

5.1 Test limit

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

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. If there have a beam forming type, the limit should be the minimum of 8dBm/MHz and 8+ (6 –antenna gain-beam forming gain).

5.2 Test Configuration



5.3 Test procedure and test setup

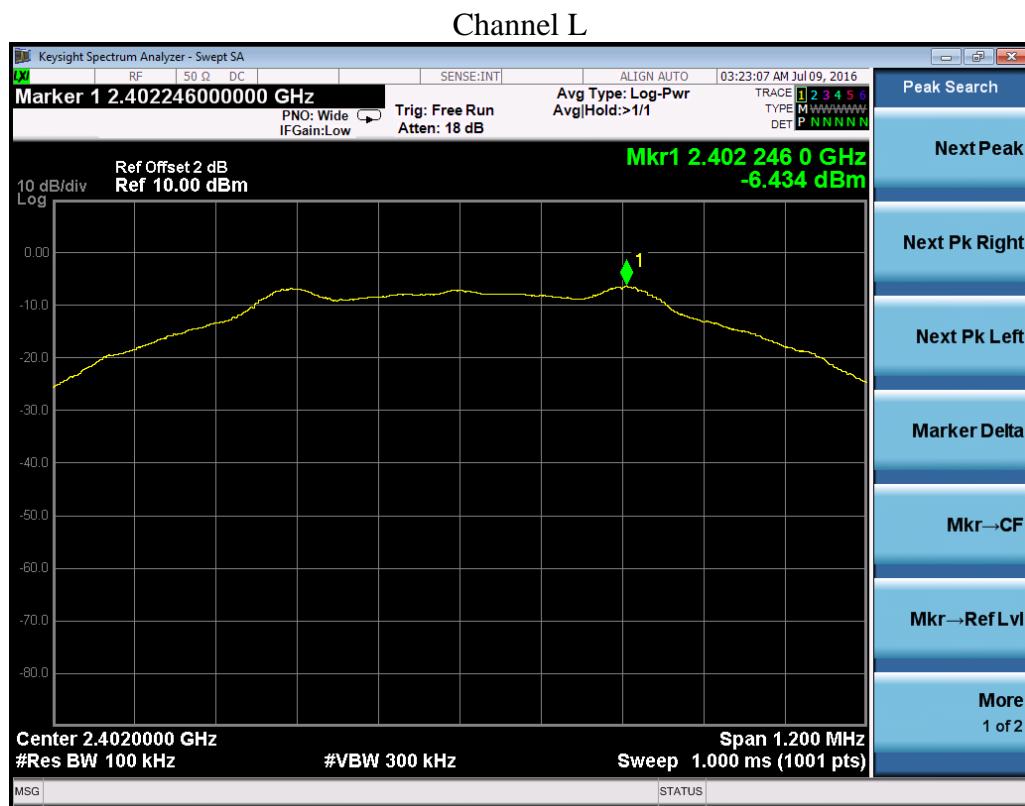
The power output per FCC §15.247(e) was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 10.2) for compliance to FCC 47CFR 15.247 requirements.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the *DTS bandwidth*.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

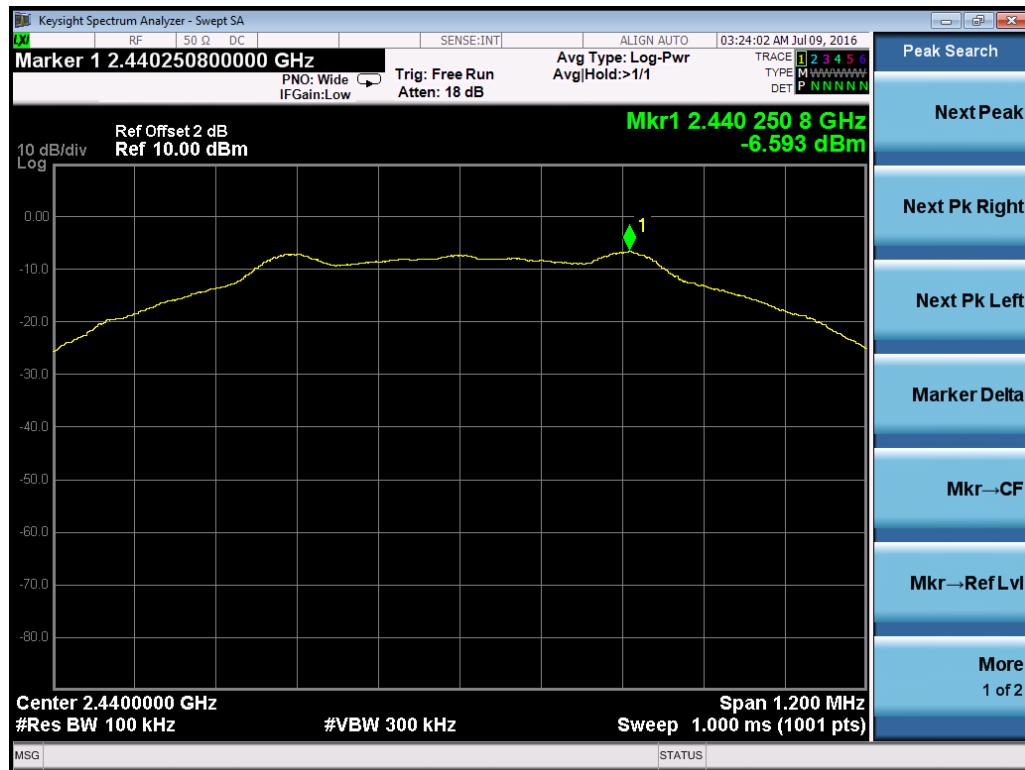
5.4 Test Protocol

Temperature: 22°C
Relative Humidity: 54%

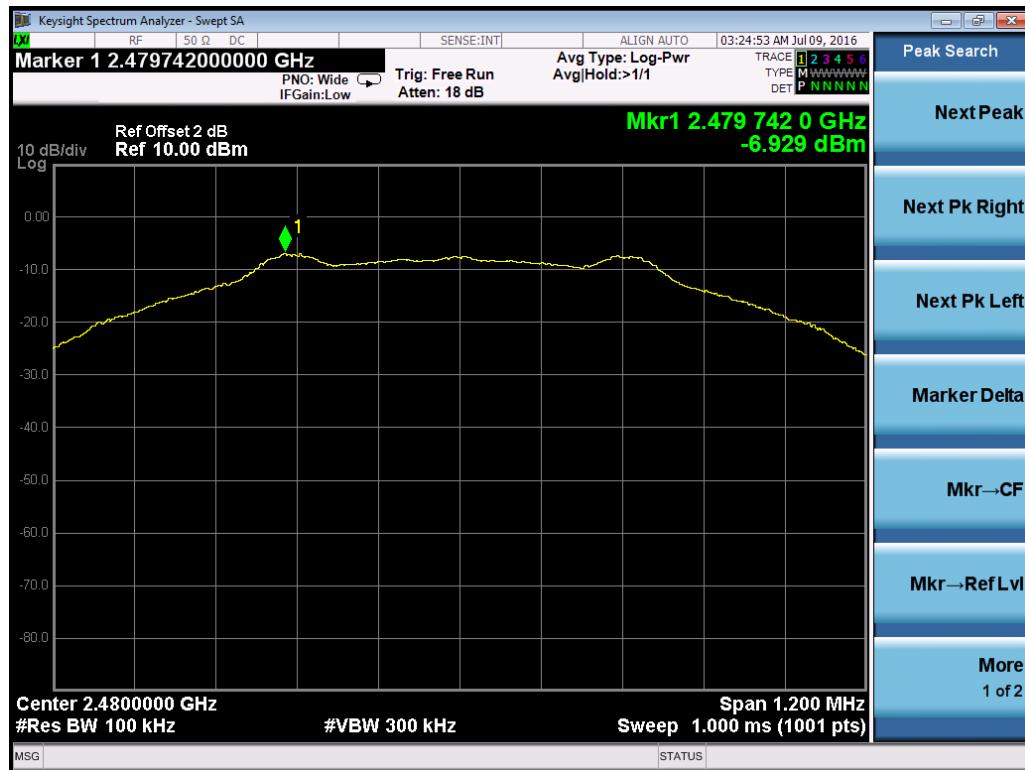
Mode	Channel	PSD (dBm)	RBW (kHz)	Limit (dBm)
BLE	L	-6.343	100	8
	M	-6.593	100	8
	H	-6.929	100	8



Channel M



Channel H



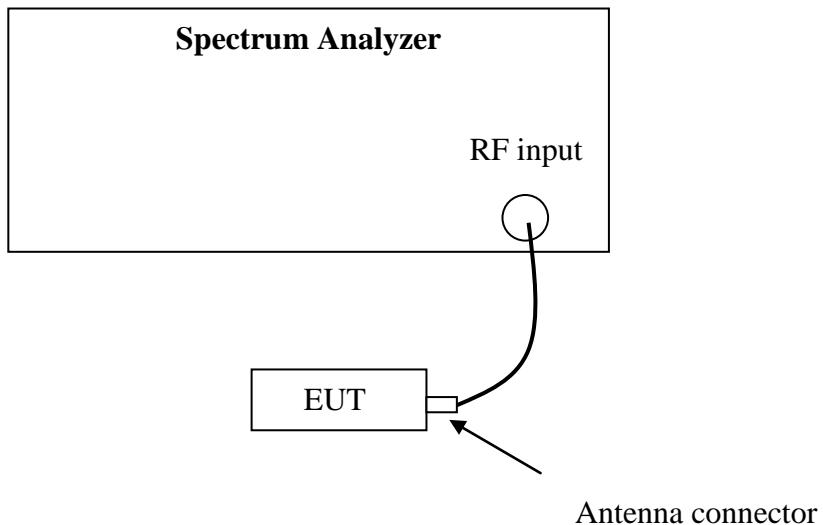
6 Emission outside the frequency band

Test result: Pass

6.1 Test limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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.

6.2 Test Configuration



6.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” (clause 11.0) for compliance to FCC 47CFR 15.247 requirements.

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 times the *DTS bandwidth*.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.

- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Emission level measurement

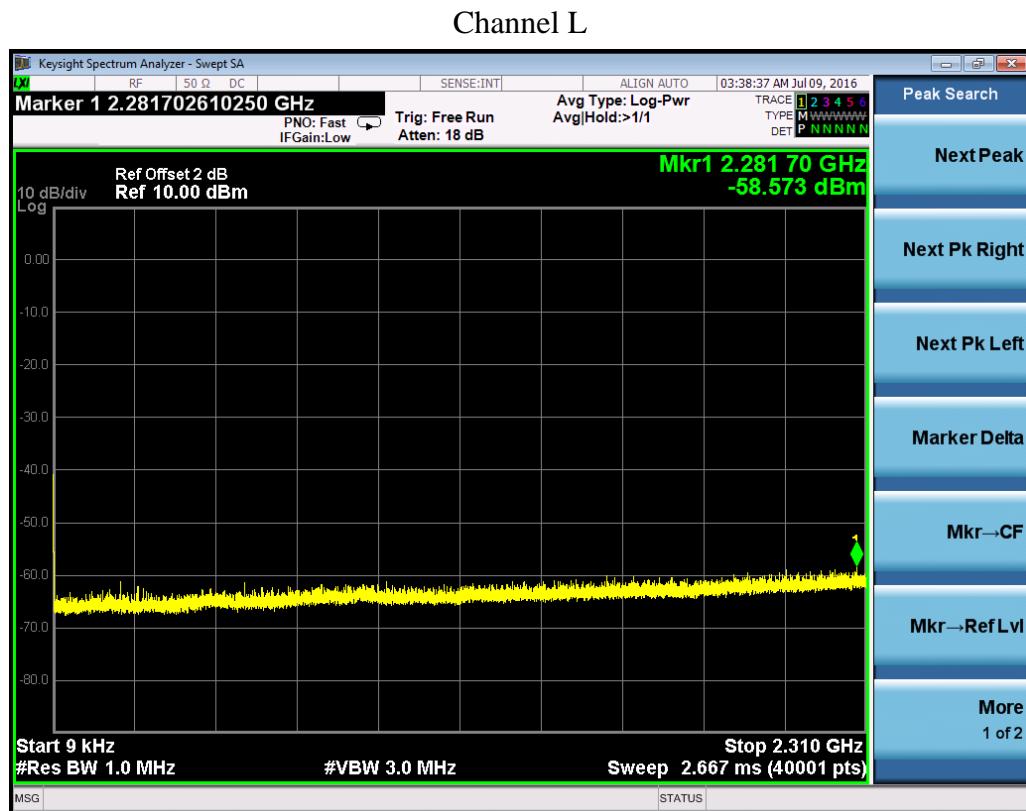
- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq 3 \times$ RBW.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

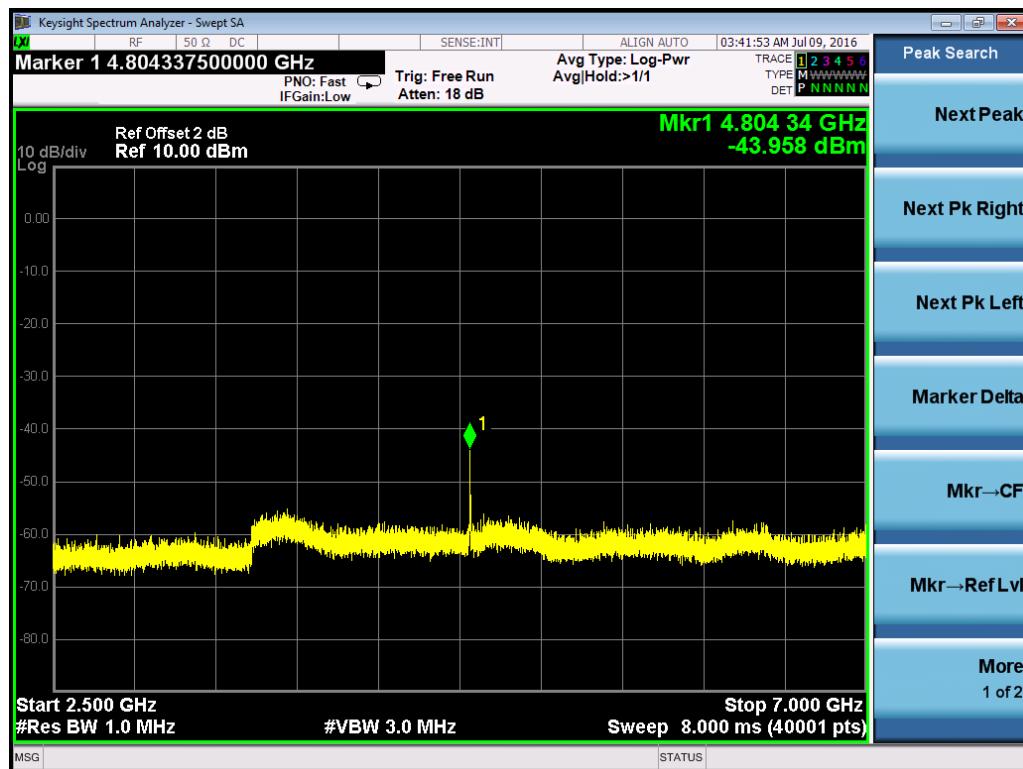
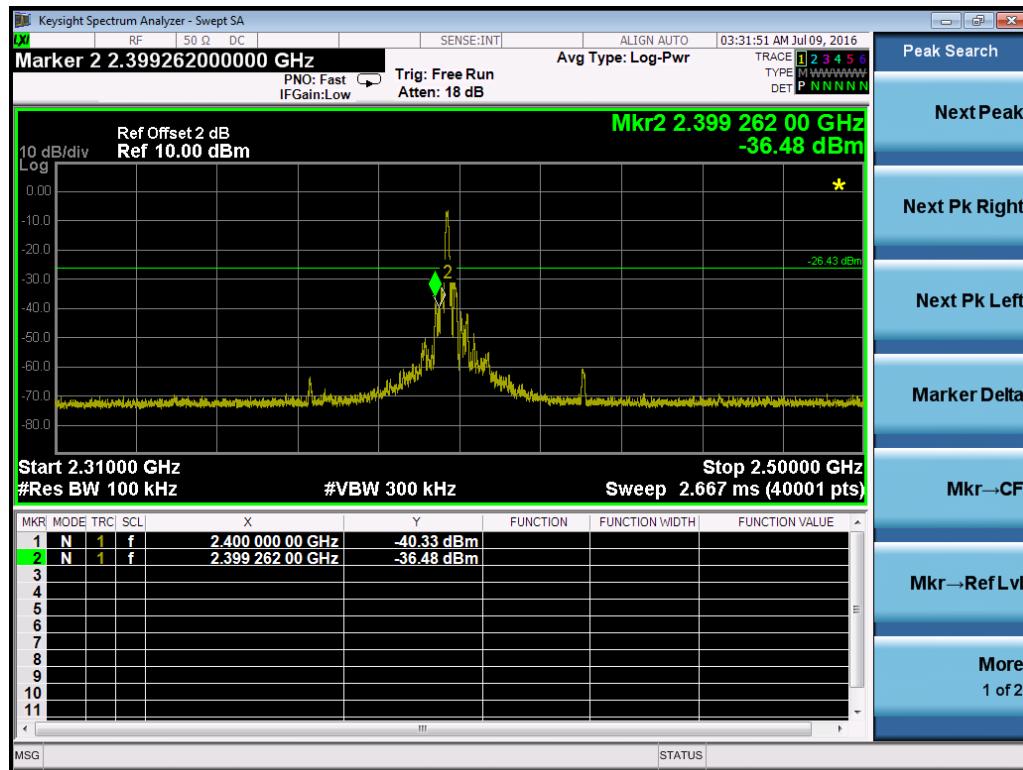
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

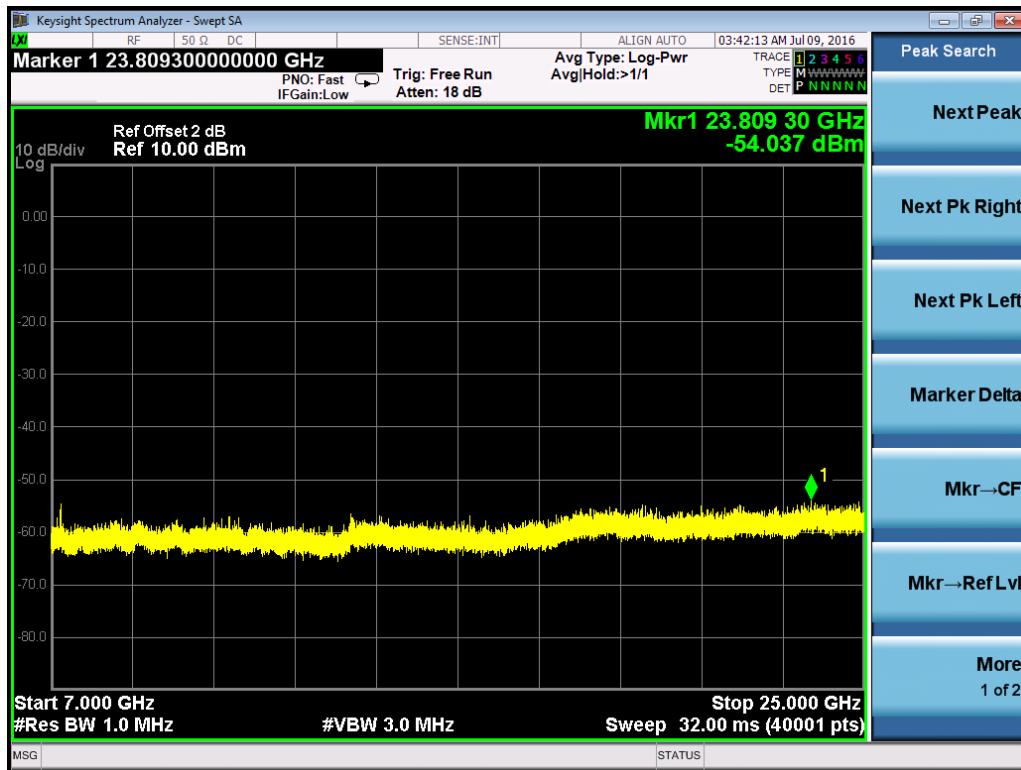
6.4 Test Protocol

Temperature: 22°C
Relative Humidity: 54%

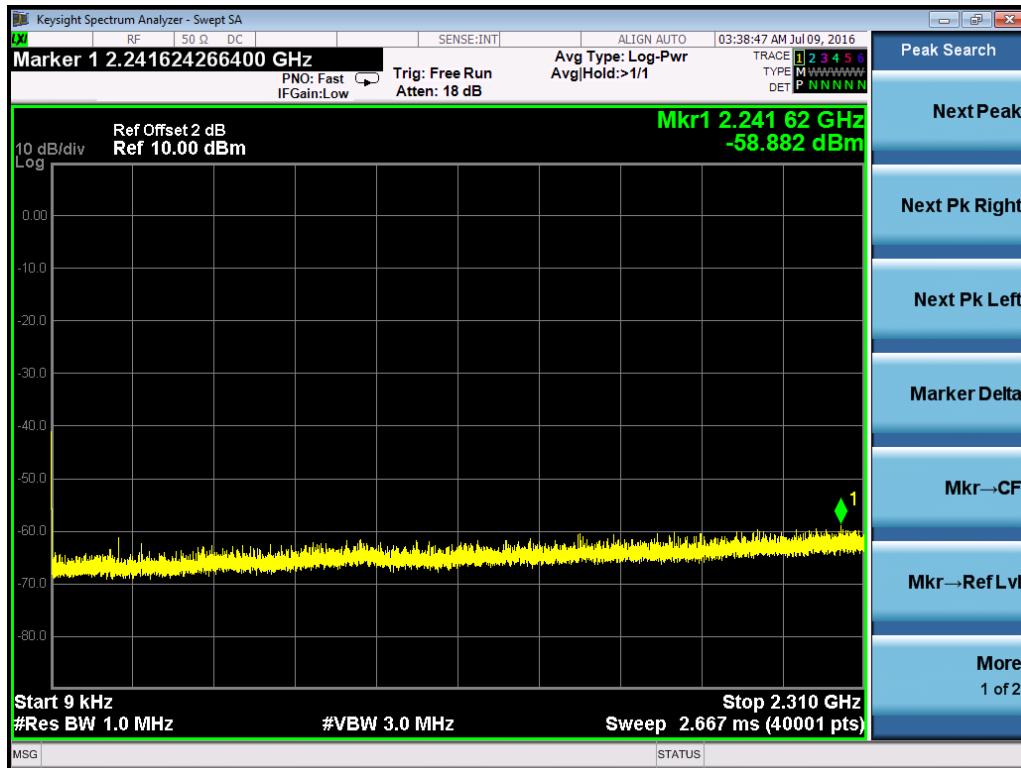
Mode	Channel	Reference Level (dBm)	Emission Level (dBm)	Limit (dBm)	Result
BLE	L	-6.343	-36.480	≥20	Pass
	M	-6.593	-73.350	≥20	Pass
	H	-6.929	-56.013	≥20	Pass

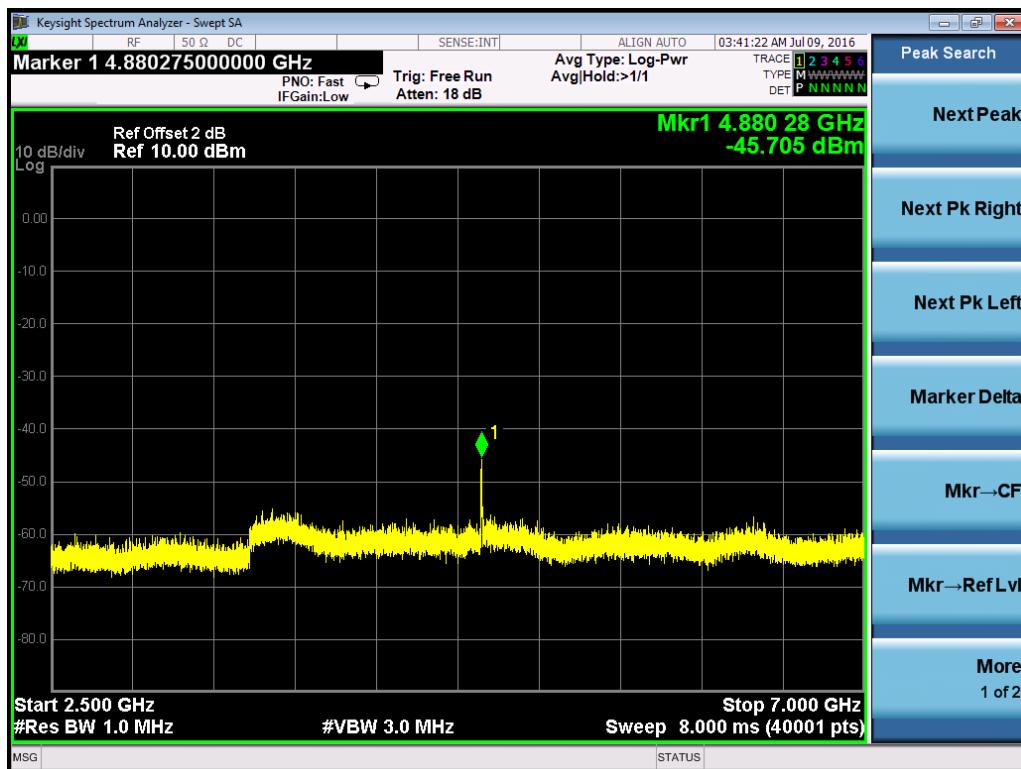
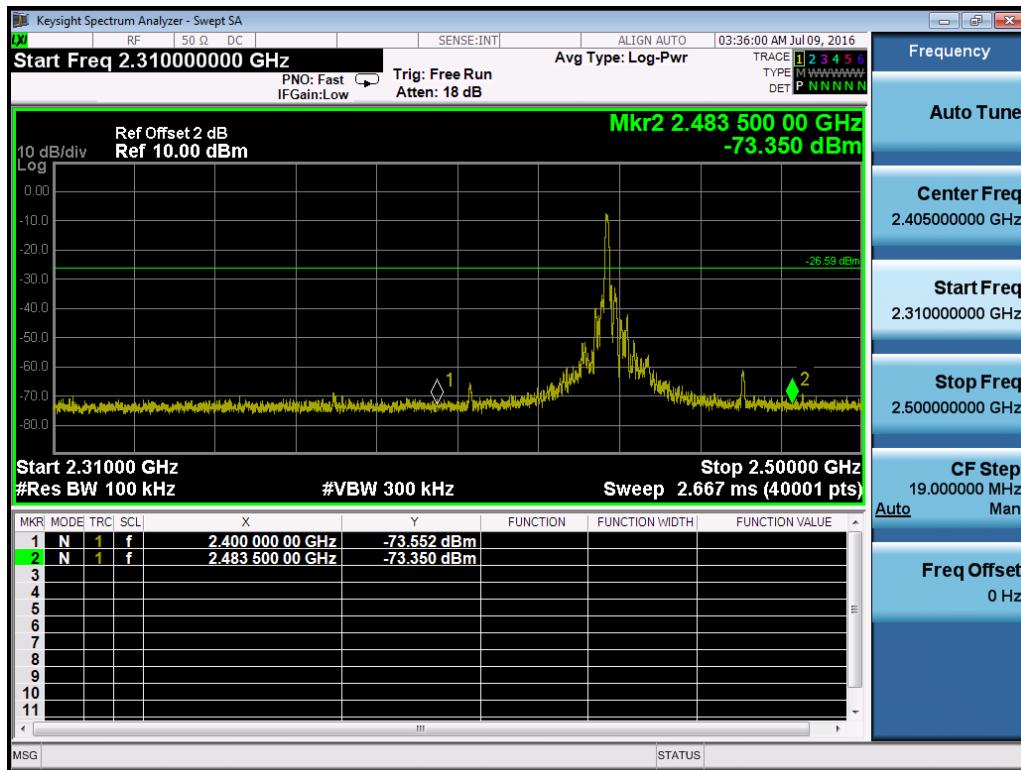






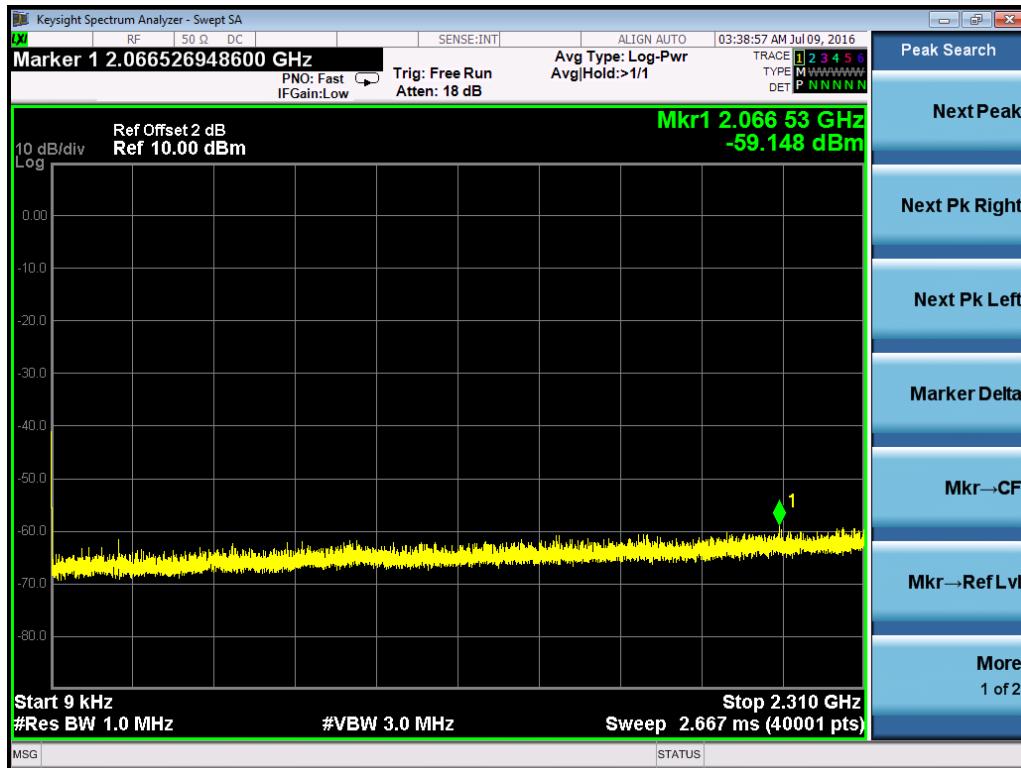
Channel M

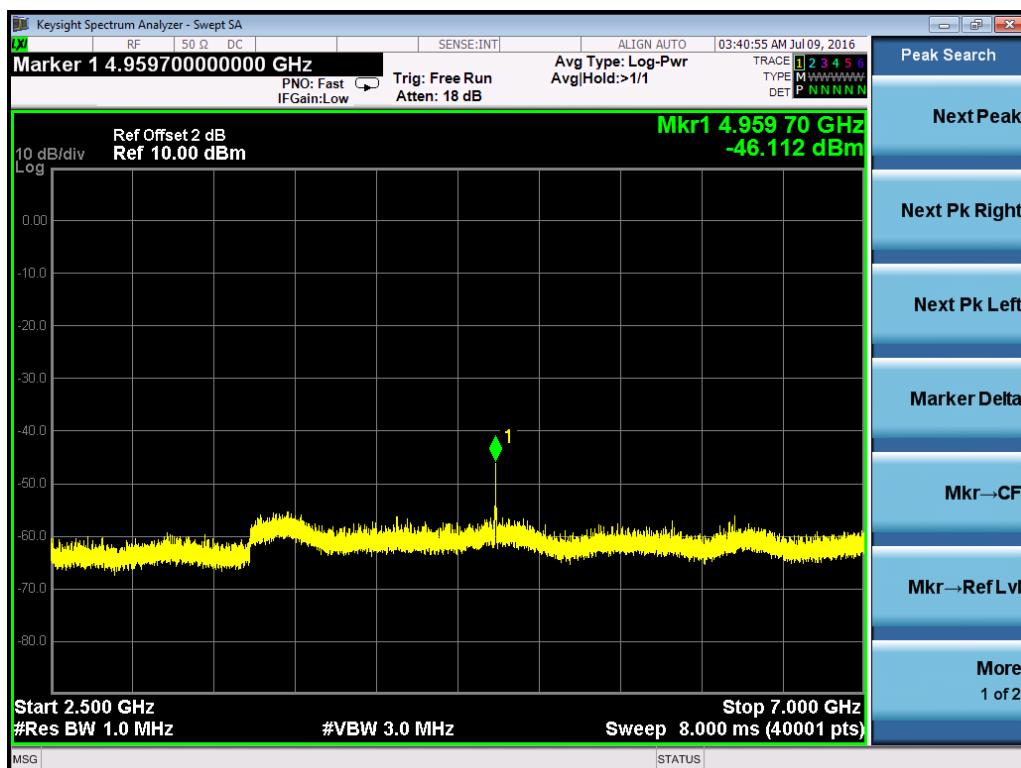
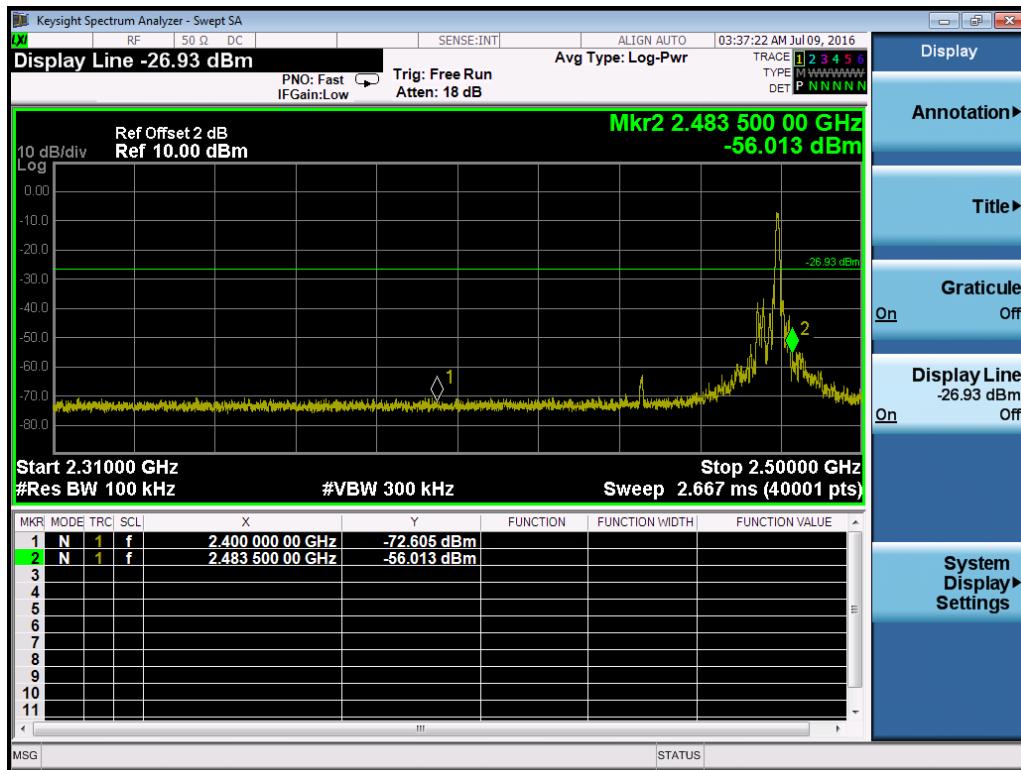


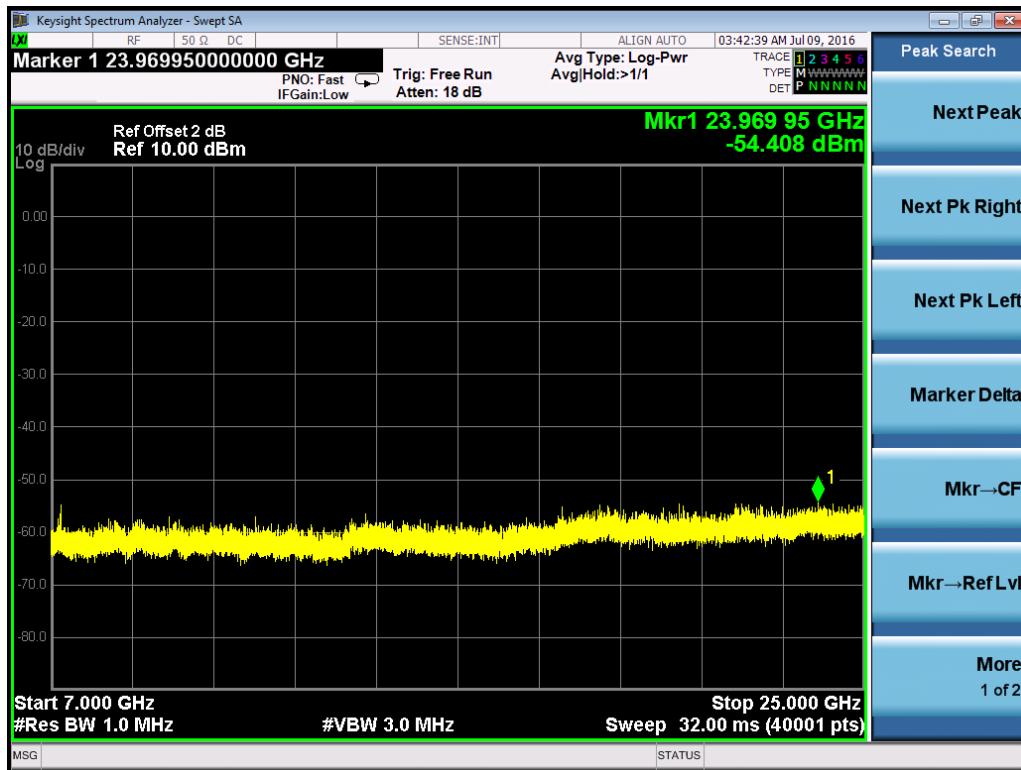




Channel H







7 Radiated Emissions in restricted frequency bands

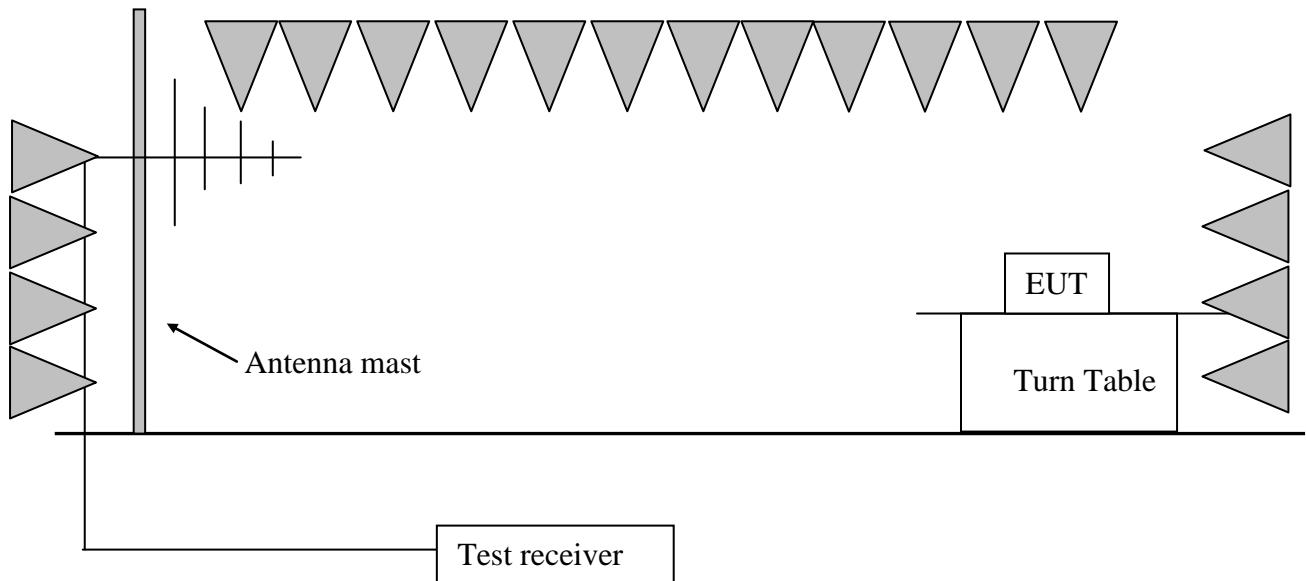
Test result: Pass

7.1 Test limit

The radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

7.2 Test Configuration



7.3 Test procedure and test setup

The measurement was applied in a semi-anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna.

Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m.

The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

The EUT was tested according to DTS test procedure of KDB558074 D01 DTS “Meas Guidance” for compliance to FCC 47CFR 15.247 requirements.

The radiated emission was measured using the Spectrum Analyzer with the resolutions bandwidth set as:

RBW = 300 Hz, VBW = 1 kHz (9 kHz~150 kHz);
RBW = 10 kHz, VBW = 30 kHz (150 kHz~30MHz);
RBW = 100 kHz, VBW = 300 kHz (30MHz~1GHz for PK)
RBW = 1MHz, VBW = 3MHz (>1GHz for PK);

Remark:

1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
2. Measured level= Original Receiver Reading + Factor
3. Margin = Limit – Measured level
4. If the PK measured level is lower than AV limit, the AV test can be elided.

Example:

Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10dBuV.
Then Factor = $30.20 + 2.00 - 32.00 = 0.20$ dB/m;
Measured level = $10\text{dBuV} + 0.20\text{dB/m} = 10.20\text{dBuV/m}$
Assuming limit = 54dBuV/m,
Measured level = 10.20dBuV/m, then Margin = $54 - 10.20 = 43.80$ dBuV/m.

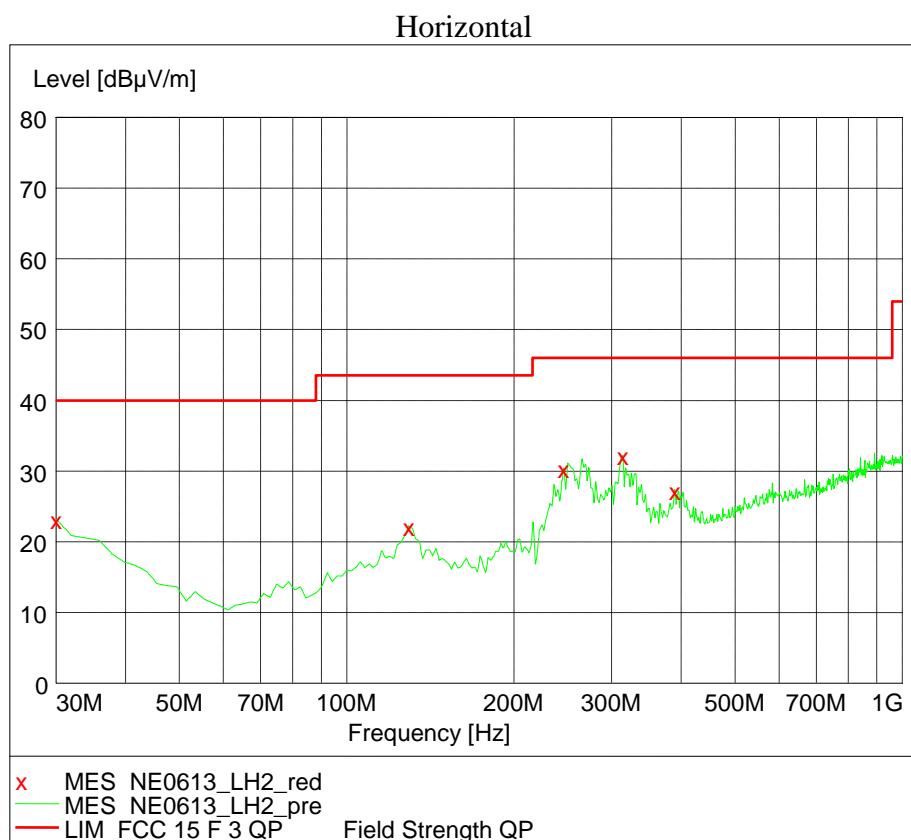
7.4 Test Protocol

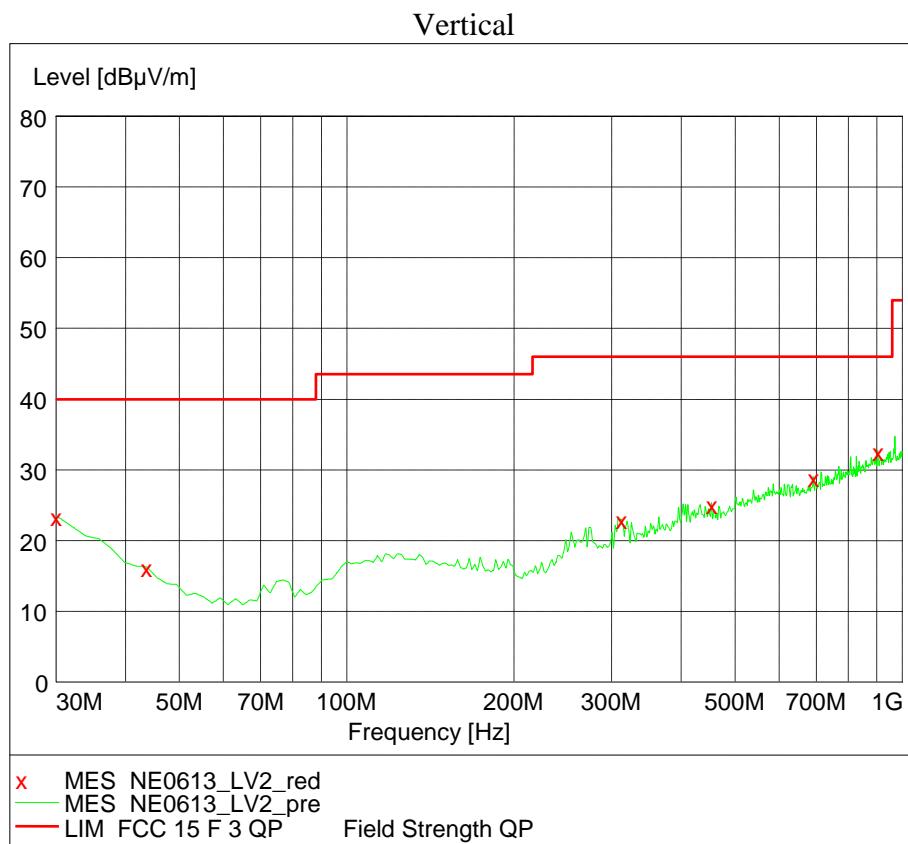
Temperature: 22°C
Relative Humidity: 54%

All the two models of product were tested and the worst data was listed in the report.

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

The worst waveform from 30MHz to 1000MHz is listed as below:





Note: The worst test result (30MHz to 1GHz) of channel L (2402MHz) chosen to list in the report as representative.

Test result from 30MHz to 1000MHz:

Polarization	Frequency (MHz)	Corrected Reading (dB μ V/m)	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)	Detector
H	30.00	23.20	20.70	40.00	16.80	PK
	245.77	30.50	14.80	46.00	15.50	PK
	313.81	32.20	16.70	46.00	13.80	PK
	891.14	32.50	25.50	46.00	13.50	PK
V	30.00	23.50	20.70	40.00	16.50	PK
	690.92	29.00	23.00	46.00	17.00	PK
	902.81	32.70	25.60	46.00	13.30	PK

Test result above 1GHz:

Channel	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	2402.20	93.10	34.34	Fundamental	/	PK
	H	2374.95	51.42	34.29	74.00	22.56	PK
	H	4803.61	39.80	2.10	74.00	34.20	PK
M	H	2440.28	91.60	34.48	Fundamental	/	PK
	H	4880.26	39.56	2.10	74.00	34.44	PK
H	H	2479.96	90.50	34.62	Fundamental	/	PK
	H	2483.55	53.95	34.63	74.00	20.05	PK
	H	4953.91	39.32	2.10	74.00	34.68	PK

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (-Amplifier, is employed)
 2. Corrected Reading = Original Receiver Reading + Correct Factor
 3. Margin = limit – Corrected Reading

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
 Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10dBuV.
 Then Correct Factor = $30.20 + 2.00 - 32.00 = 0.20$ dB/m; Corrected Reading
 $= 10\text{dBuV} + 0.20\text{dB/m} = 10.20\text{dBuV/m}$
 Assuming limit = 54dBuV/m, Corrected Reading = 10.20dBuV/m, then
 Margin = $54 - 10.20 = 43.80$ dBuV/m

8 Power line conducted emission

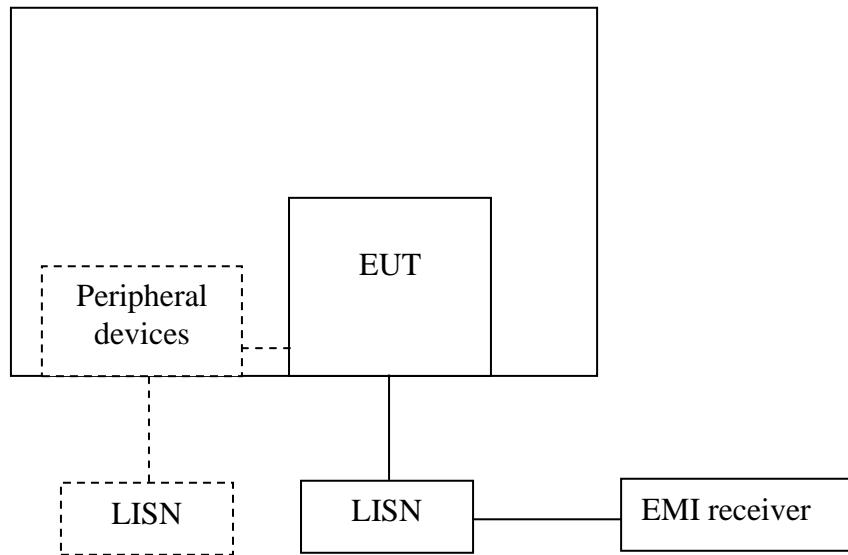
Test result: Pass

8.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
0.15-0.5	66 to 56*	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

8.2 Test configuration



- For table top equipment, wooden support is 0.8m height table
- For floor standing equipment, wooden support is 0.1m height rack.

8.3 Test procedure and test set up

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the $50\ \Omega$ LISN port (to which the EUT is connected), where permitted, terminated into a $50\ \Omega$ measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the $50\ \Omega$ measuring port is terminated by a measuring instrument having $50\ \Omega$ input impedance. All other ports are terminated in $50\ \Omega$ loads.

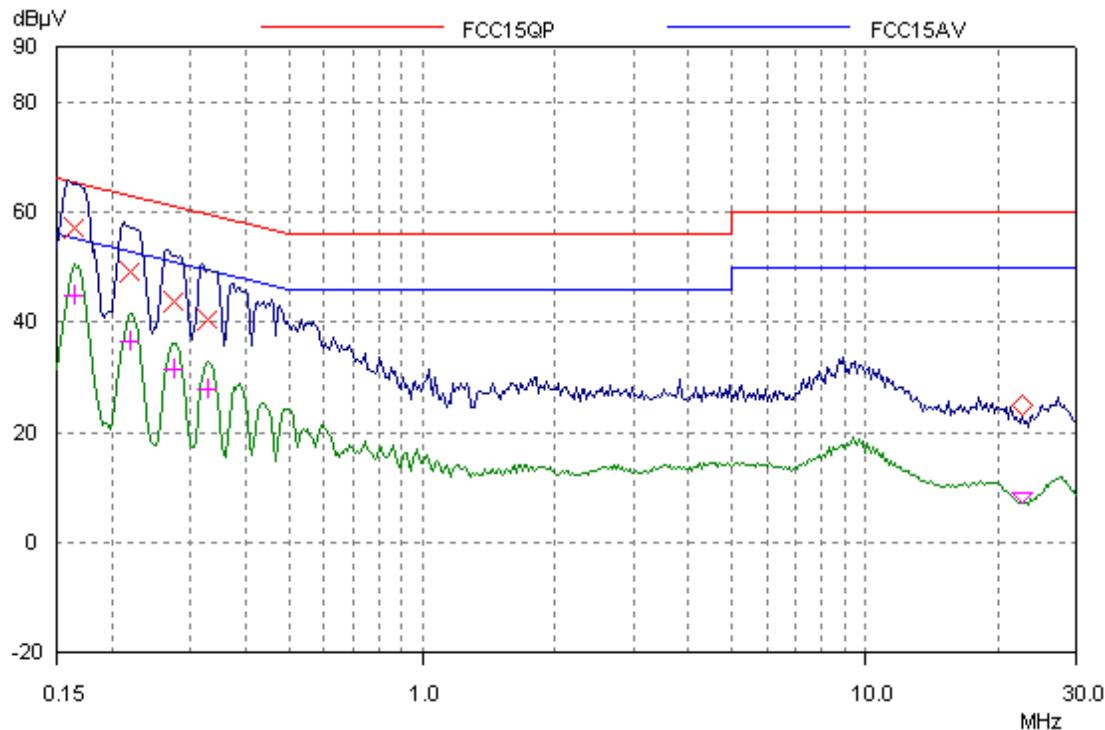
Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

8.4 Test protocol

Temperature: 22°C
Relative Humidity: 54%

L line:

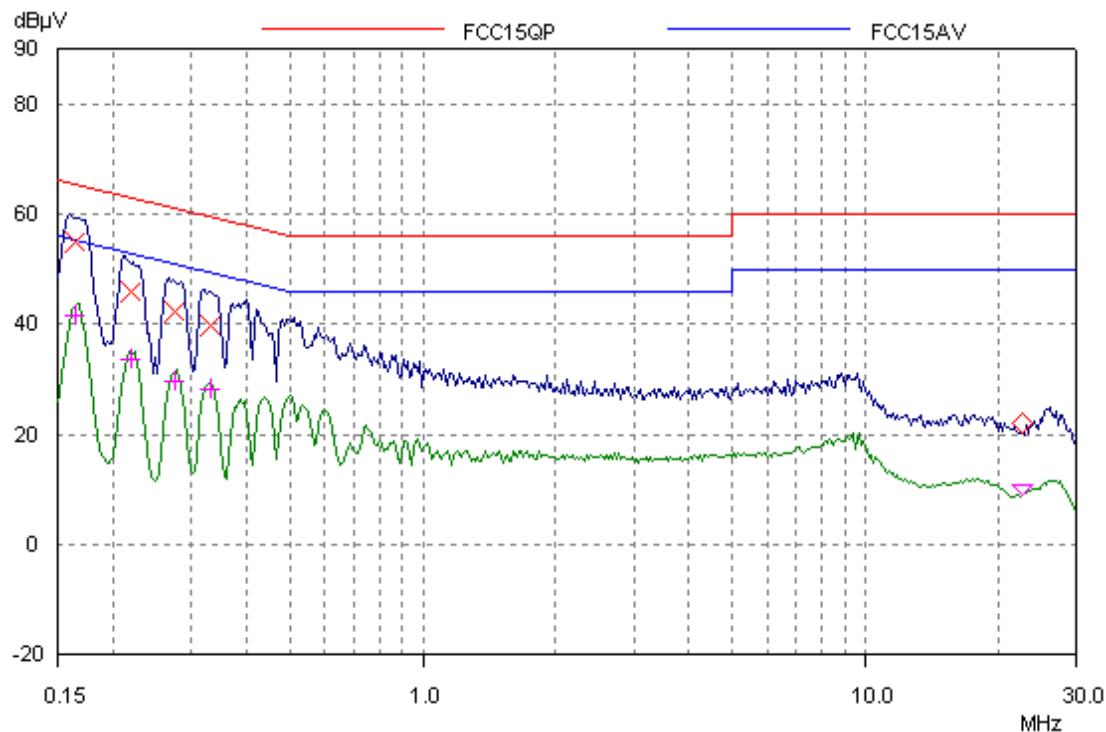


Test Data:

Frequency (MHz)	Quasi-peak			Average		
	level dB(μ V)	Limit dB(μ V)	Margin (dB)	level dB(μ V)	limit dB(μ V)	Margin (dB)
0.164	57.25	65.27	8.02	44.75	55.27	10.52
0.220	49.12	62.82	13.70	36.36	52.82	16.46
0.274	43.79	60.99	17.20	31.41	50.99	19.58
0.327	40.37	59.53	19.16	27.74	49.53	21.79

Remark: If the margin higher than 20dB, it would be marked as *.

N line:



Test Data:

Frequency (MHz)	Quasi-peak			Average		
	level dB(µV)	Limit dB(µV)	Margin (dB)	level dB(µV)	limit dB(µV)	Margin (dB)
0.164	54.98	65.24	10.26	41.59	55.24	13.65
0.218	46.01	62.88	16.87	33.48	52.88	19.40
0.276	42.10	60.93	18.83	29.50	50.93	21.43
0.331	39.58	59.44	19.86	28.05	49.44	21.39

Remark: If the margin higher than 20dB, it would be marked as *.

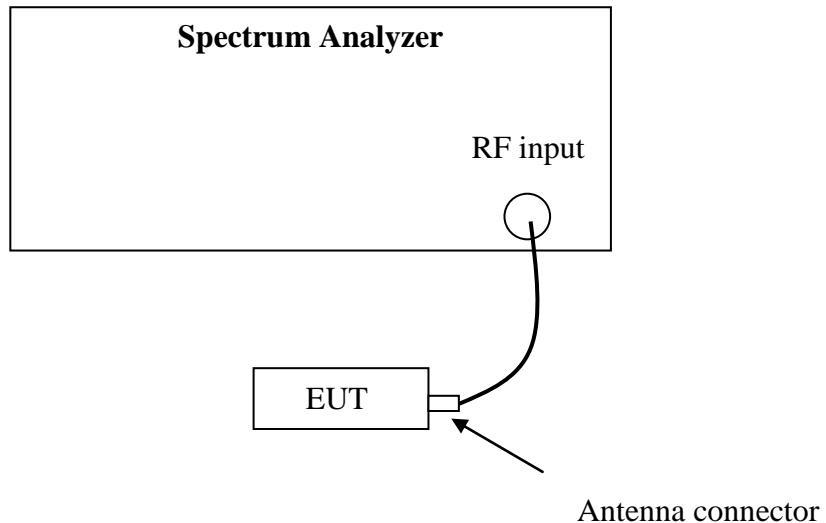
9 Occupied Bandwidth

Test Status: Tested

9.1 Test limit

None

9.2 Test Configuration



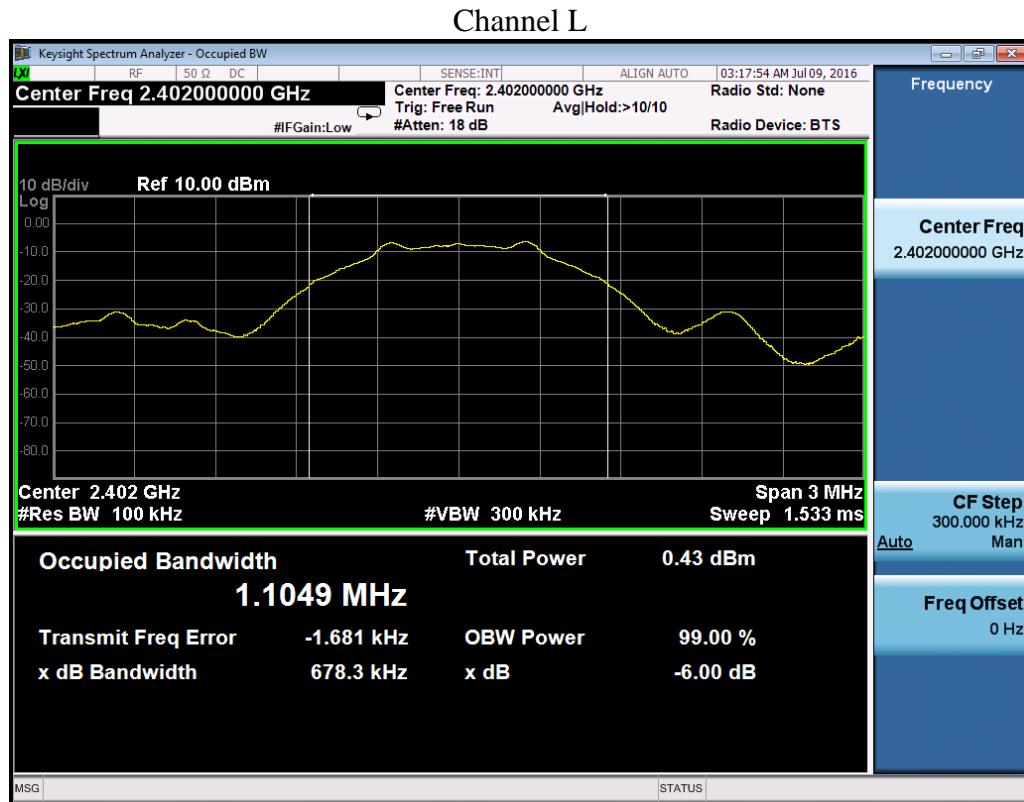
9.3 Test procedure and test setup

The occupied bandwidth per RSS-Gen Issue 4 Clause 6.6 was measured using the Spectrum Analyzer.

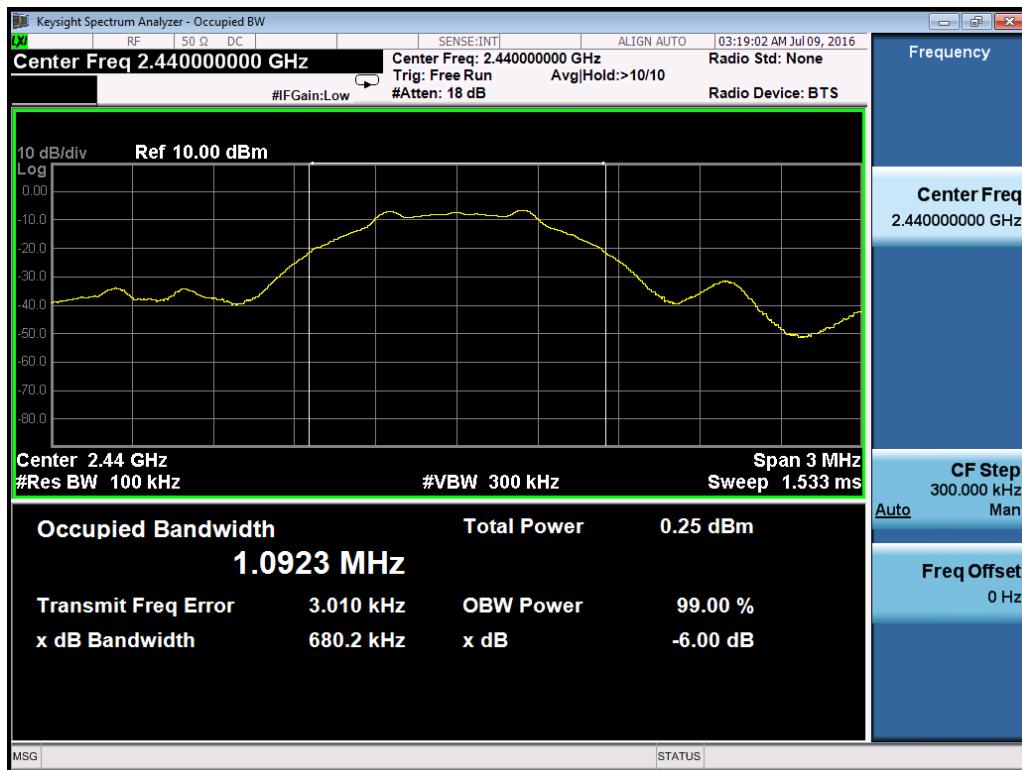
9.4 Test protocol

Temperature : 22 °C
Relative Humidity : 54 %

Mode	Mode	99% Bandwidth (MHz)
BLE	L	1.1049
	M	1.0923
	H	1.0856



Channel M



Channel H

