FCC RADIO TEST REPORT

No. 170900170SHA-001

Applicant	:	NINGBO DONGXING ELECTRIC CO., LTD Fenglin Industrial Development Zone, Qiaotou Town, Cixi, Ningbo, Zhejiang, China
Manufacturing site	:	NINGBO DONGXING ELECTRIC CO., LTD Fenglin Industrial Development Zone, Qiaotou Town, Cixi, Ningbo, Zhejiang, China
Product Name	:	LED Lamp
Type/Model	:	DX61509AA19CBLEUS
TEST RESULT	**:**	**PASS**

SUMMARY

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

47CFR Part 15 (2016): Radio Frequency Devices (Subpart C)

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

RSS-247 Issue 2 (February 2017): 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: November 8, 2017

Prepared by:

Nemo Li

Nemo Li (Project engineer)

Reviewed by:

Daniel Zhao (Reviewer)

Contents

Revision History

Issue No.	Version	Description	Date Issued
170900170SHA-001	Rev. 01	Initial issue of report	November 8, 2017

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name	:	LED Lamp
Type/Model	:	DX61509AA19CBLEUS
Description of EUT	:	EUT is a LED Lamp. It has only one model.
Rating	:	120V 60Hz
Sample received date	:	October 23, 2017
Date of test	:	October 23, 2017 ~ November 8, 2017

1.2 RF Technical Information

Assigned Frequency Band	:	2400MHz to 2483.5MHz
Protocol	:	Bluetooth BLE
Operating Frequency	:	2402MHz to 2480MHz
Type of Modulation	:	GFSK
Number of Channels	:	40
Channel Separation	:	2MHz
Antenna Type	:	PCB antenna
Antenna Gain	:	1dBi
FCC ID	:	2AKEQ-DXC004
IC	:	22176-DXC004

1.3 Description of Test Facility

Name	:	Intertek Testing Service Shanghai
Address	:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone	:	86 21 61278200
Telefax	:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations	:	CNAS Accreditation Lab Registration No. CNAS L0139 FCC Accredited Lab Designation Number: CN1175 IC Registration Lab Registration code No.: 2042B-1 VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252 NVLAP Accreditation Lab NVLAP LAB CODE: 200849-0 A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2016)
ANSI C63.10 (2013)
KDB 558074 (v04)
RSS-247 Issue 2 (February 2017)
RSS-Gen Issue 4 (December 2014)

2.2 Mode of operation during the test

While testing transmitting mode of EUT, the continuously transmission was applied by following software.

Software name	Manufacturer	Version	Supplied by
wtcdb	-	-	Client

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

Frequency Band (MHz)	Mode	Lowest (MHz)	Middle (MHz)	Highest (MHz)
2400-2483.5	-	2402	2440	2480

2.3 Test environment condition:

Temperature:	20-25°C
Humidity:	50-60% RH
Atmospheric Pressure:	100-101kPa

2.4 Test peripherals used

Item No	Description	Manufacturer	Model No.	Serial Number
1	Laptop computer	HP	4230s	-

2.5 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☐	Test Receiver	R&S	ESCS 30	EC 2107	2018-09-12
☐	A.M.N.	R&S	ESH2-Z5	EC 3119	2017-12-01
☐	A.M.N.	R&S	ENV 216	EC 3393	2018-07-30
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Test Receiver	R&S	ESIB 26	EC 3045	2018-09-12
☒	Bilog Antenna	TESEQ	CBL 6112D	EC 4206	2018-05-30
☒	Horn antenna	R&S	HF 906	EC 3049	2018-09-23
☐	Horn antenna	ETS	3117	EC 4792-1	2018-08-24
☒	Horn antenna	TOYO	HAP18-26W	EC 4792-3	2020-07-09
☒	Pre-amplifier	R&S	Pre-amp 18	EC5881	2018-06-19
☒	Active loop antenna	Schwarzbeck	FMZB1519	EC 5345	2018-01-25
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2018-09-10
☐	Power sensor/ Power meter	Agilent	N1911A/ N1921A	EC4318	2018-05-12
☐	Test Receiver	R&S	ESCI 7	EC 4501	2018-09-12
Tet Site					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☐	Shielded room	Zhongyu	-	EC 2838	2018-01-08
☒	Semi-anechoic chamber	Albatross project	-	EC 3048	2018-03-09
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☐	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3323	2018-06-14
☒	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3324	2018-04-09
☒	Therom-Hygrograph	ZJ1-2A	S.M.I.F.	EC 3325	2018-03-23
☒	Pressure meter	YM3	Shanghai Mengde	EC 3320	2018-06-28

2.6 Measurement Uncertainty

Test Items	Expanded Uncertainty (k=2) (±)
Maximum peak output power	0.74dB
Radiated Emissions in restricted frequency bands below 1GHz	4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	5.02dB
Power line conducted emission	3.19dB

2.7 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.

TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
Minimum 6dB bandwidth	15.247(a)(2)	RSS-247 Issue 2 Clause 5.2	Pass
Maximum conducted output power and e.i.r.p.	15.247(b)	RSS-247 Issue 2 Clause 5.4	Pass
Power Spectrum density	15.247(e)	RSS-247 Issue 2 Clause 5.2	Pass
Emission outside the frequency band	15.247(d)	RSS-247 Issue 2 Clause 5.5	Pass
Radiated Emissions in restricted frequency bands	15.205 & 15.209	RSS-Gen Issue 4 Clause 8.9 & 8.10	Pass
Power line conducted emission	15.207	RSS-Gen Issue 4 Clause 8.8	NA
Antenna requirement	15.203	-	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

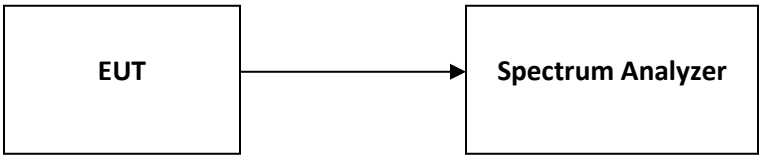
For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

3.2 Measurement Procedure

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) ≥ 3 × 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.

3.3 Test Configuration



3.4 Test Results of Minimum 6dB bandwidth

Please refer to Appendix A

4 Maximum conducted output power and e.i.r.p.

Test result: Pass

4.1 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 W. (The e.i.r.p. shall not exceed 4 W)

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).

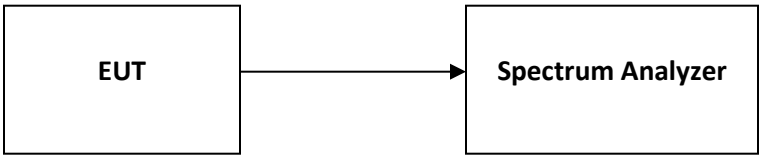
4.2 Measurement Procedure

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance” for compliance to FCC 47CFR 15.247 requirements (clause 9.1.1).

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ 3 x RBW.
c) Set span ≥ 3 x RBW
d) Sweep time = auto couple.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.

4.3 Test Configuration



4.4 Test Results of Maximum conducted output power

Please refer to Appendix A

5 Power spectrum density

Test result: **Pass**

5.1 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).

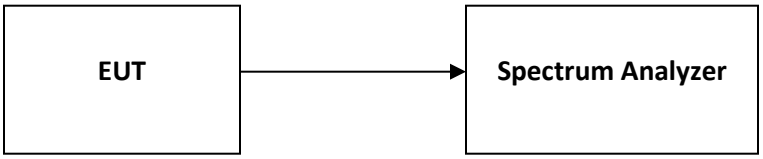
5.2 Measurement Procedure

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.

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 x DTS bandwidth.
c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ 3 x 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.

5.3 Test Configuration



5.4 Test Results of Power spectrum density

Please refer to Appendix A

6 Emission outside the frequency band

Test result: **Pass**

6.1 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 Measurement Procedure

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

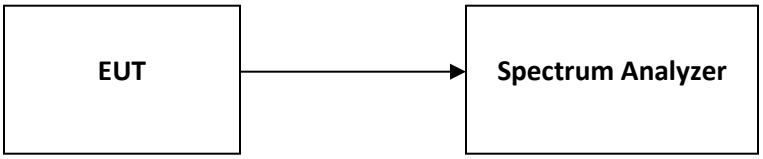
Establish a reference level by using the following procedure:
a) Set instrument center frequency to DTS channel center frequency.
b) Set the span to ≥ 1.5 x DTS bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ≥ 3 x RBW.
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) 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 ≥ 3 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.

6.3 Test Configuration



6.4 Emission outside the frequency band

Please refer to Appendix A

7 Radiated Emissions in restricted frequency bands

Test result: **Pass**

7.1 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 Measurement Procedure

For Radiated emission below 30MHz:

a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c) Both X and Y axes of the antenna are set to make the measurement.

d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz:

a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

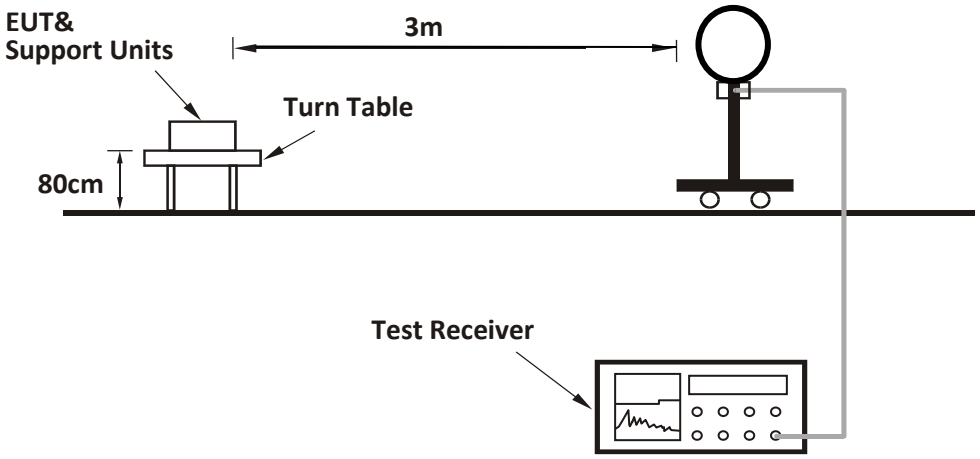
f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

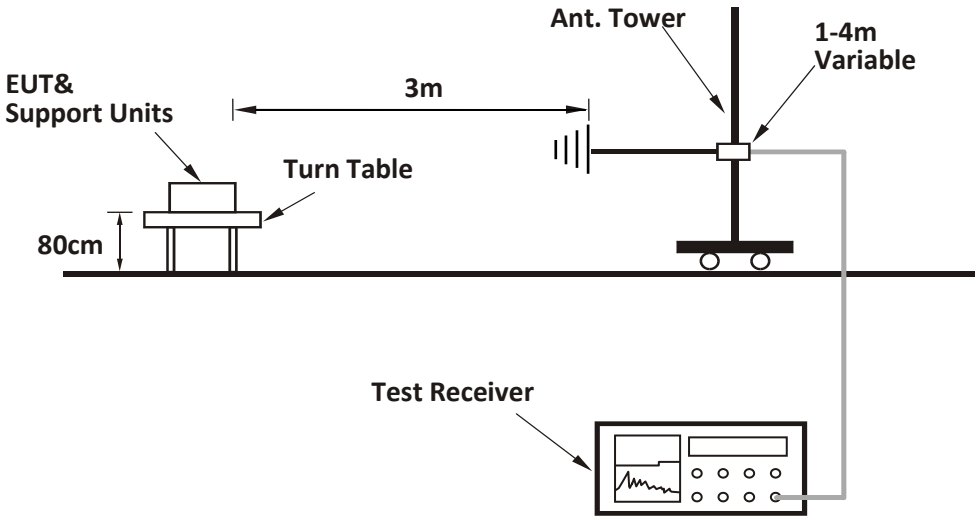
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 3 x RBW (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

7.3 Test Configuration

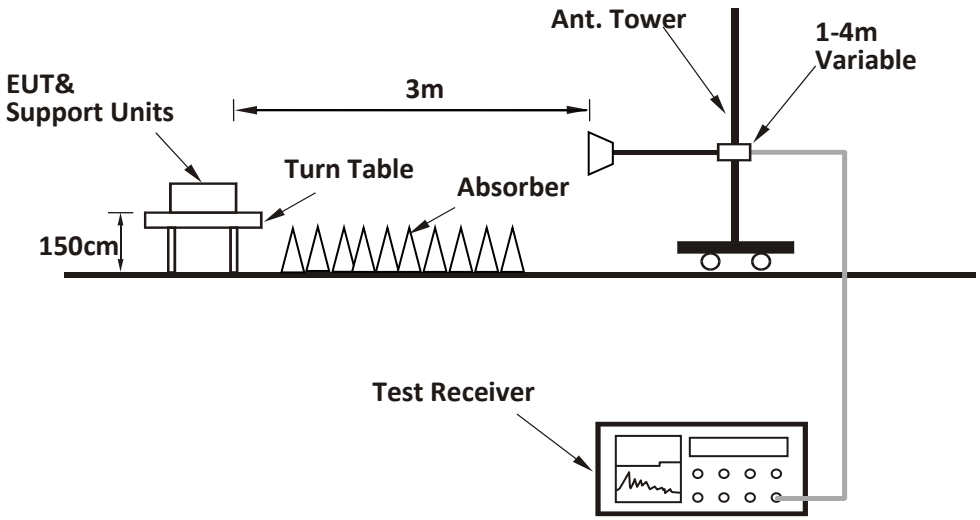
For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:



For Radiated emission above 1GHz:

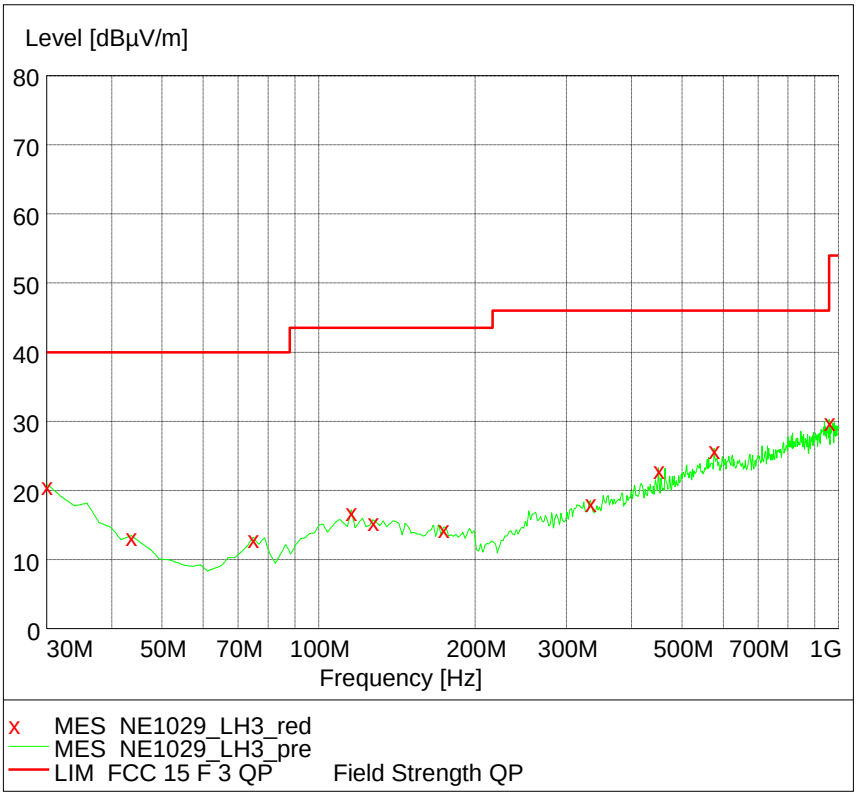


7.4 Test Results of Radiated Emissions

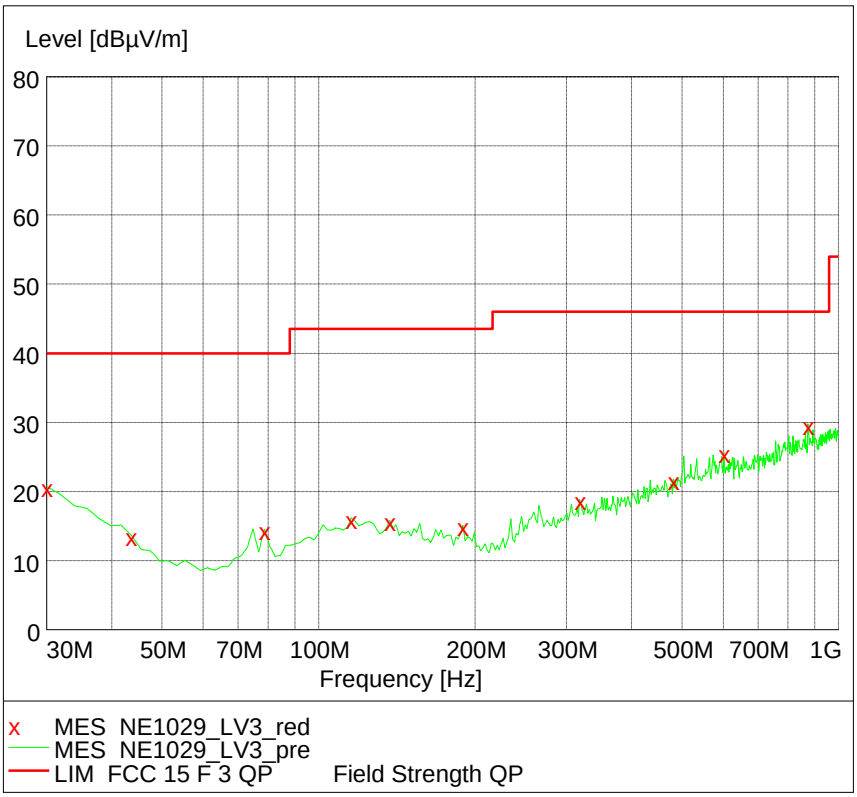
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

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

Horizontal



Vertical



Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	30.00	20.90	19.2	40.00	19.10	PK
H	576.23	26.10	20.3	46.00	19.90	PK
H	959.18	30.20	23.6	46.00	15.80	PK
V	30.00	20.70	19.2	40.00	19.30	PK
V	601.50	25.70	20.6	46.00	20.30	PK
V	873.65	29.80	22.8	46.00	16.20	PK

Test result above 1GHz:
The emission was conducted from 1GHz to 25GHz

Channel	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	2402.20	100.60	34.34	Fundamental	/	PK
	H	2390.00	44.81	34.29	74.00	29.19	PK
	H	4804.20	48.70	2.10	74.00	25.30	PK
M	H	2440.25	100.60	34.48	Fundamental	/	PK
H	H	2480.15	100.90	34.62	Fundamental	/	PK
	H	2483.50	48.30	34.63	74.00	25.70	PK
	H	4959.64	50.70	2.10	74.00	23.30	PK
	V	4959.60	48.70	2.10	74.00	25.30	PK

Remark: 1. Correct Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading 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 = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

8 Power line conducted emission

Test result: **Pass**

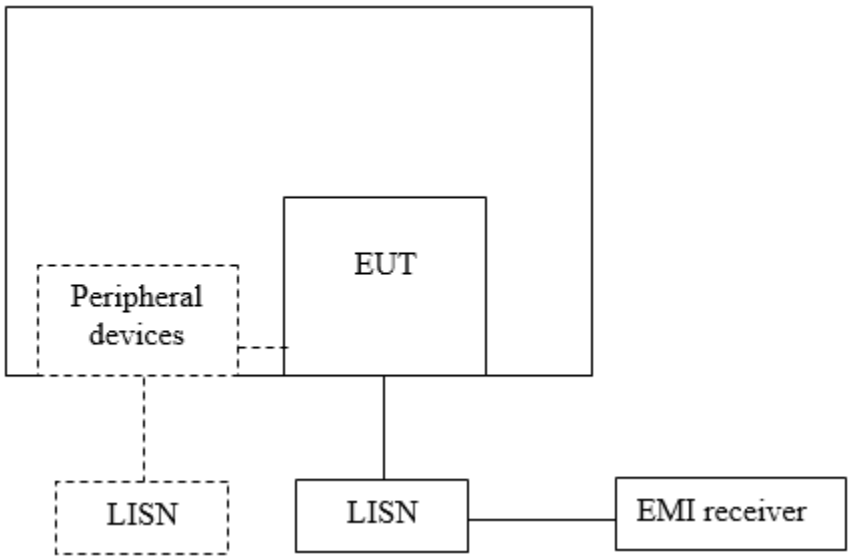
8.1 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω 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 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω 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.

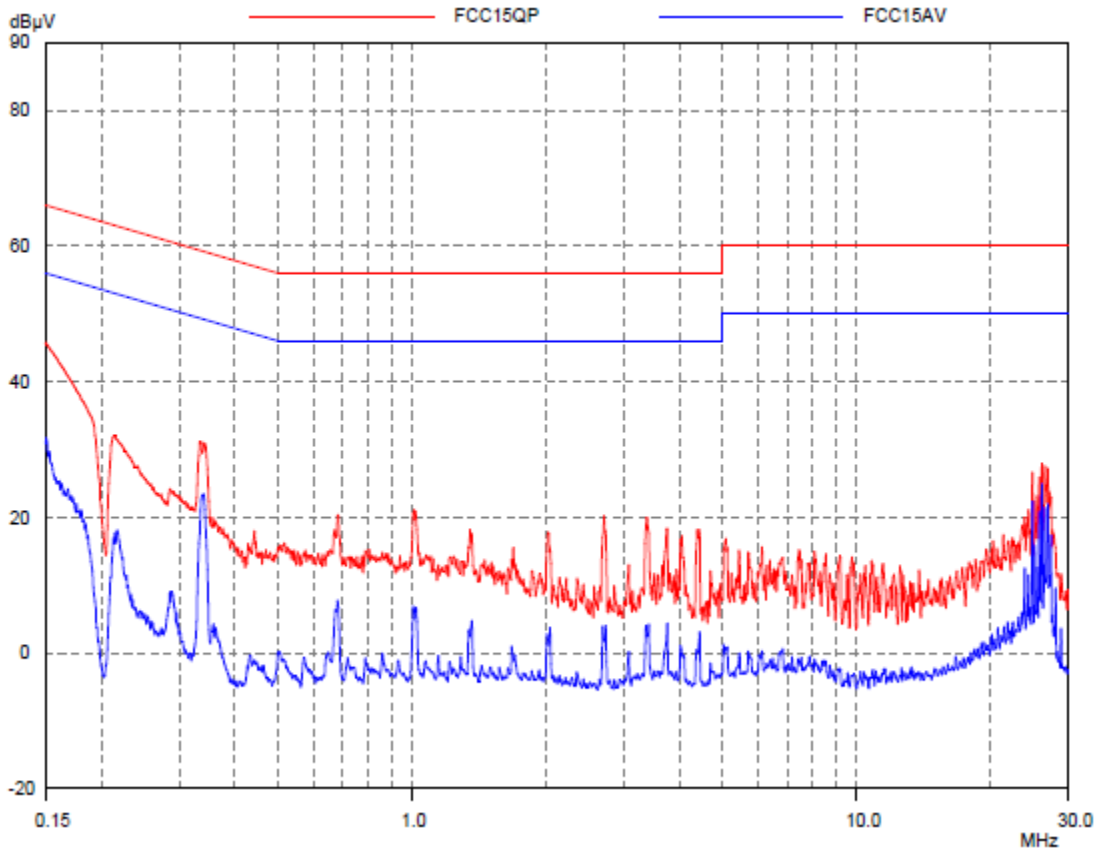
8.2 Test Configuration



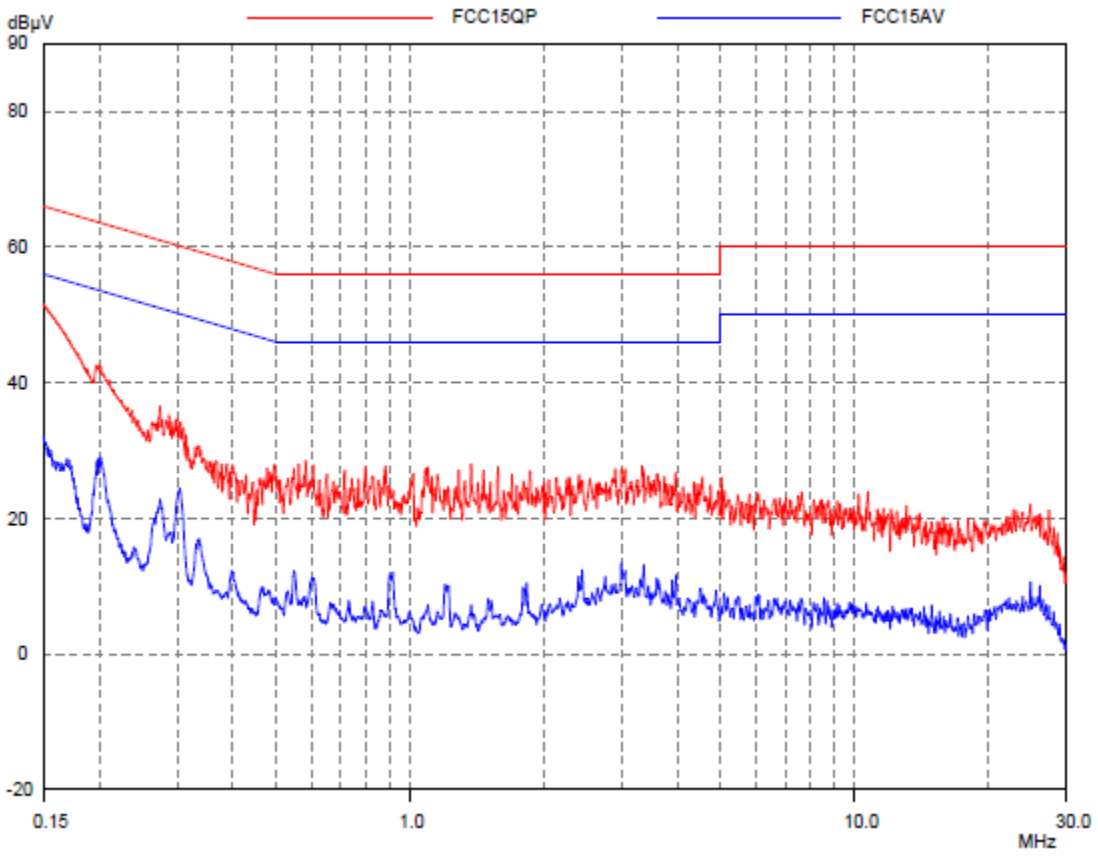
8.3 Test Results of Power line conducted emission

Test Curve:

L line:



N line:



Remark: 1. Correct Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming LISN Factor = 10.00dB, Cable Loss = 2.00dB,
Original Receiver Reading = 10.00dBuV, Limit = 66.00dBuV.
Then Correct Factor = 10.00 + 2.00 = 12.00dB;
Corrected Reading = 10dBuV + 12.00dB = 22.00dBuV;
Margin = 66.00dBuV – 22.00dBuV = 44.00dB.

9 Antenna requirement

Requirement:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Result:
EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

10 Occupied Bandwidth

Test result: **Pass**

10.1 Limit

None

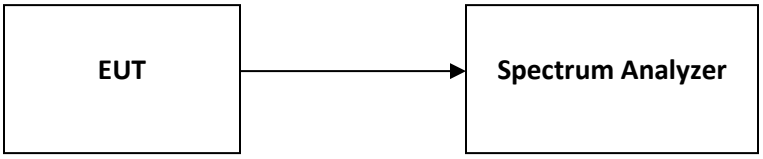
10.2 Measurement Procedure

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

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

10.3 Test Configuration



10.4 Occupied Bandwidth

Please refer to Appendix A

Appendix A: Test results

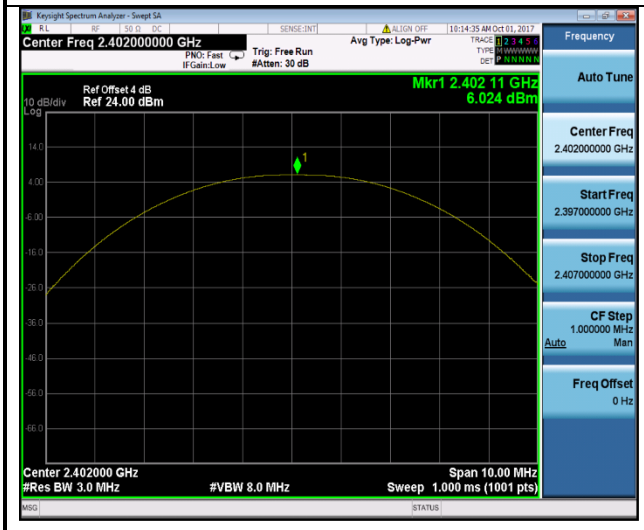
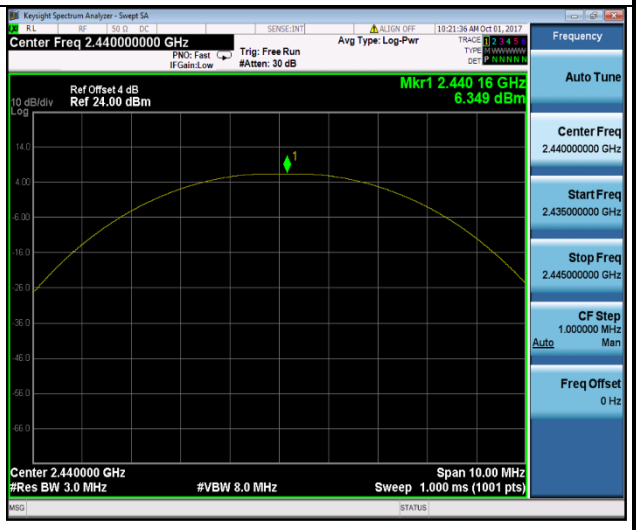
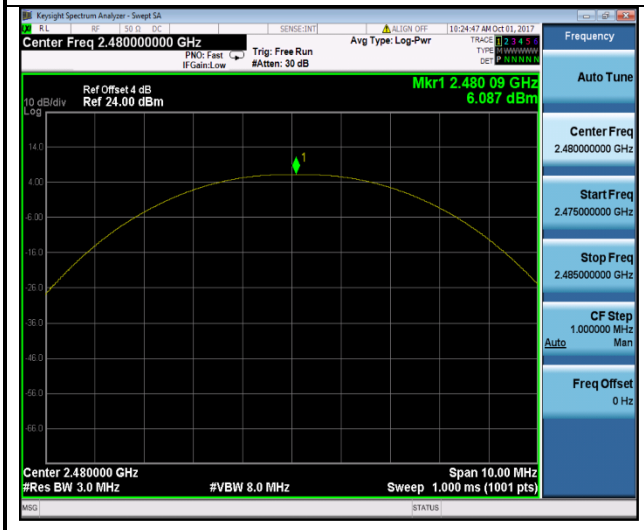
1. Maximum conducted output power and e.i.r.p.

1.1 Test Data

BLE Maximum Output Power		
Test Frequency	Power(dBm)	Result
2402	6.024	Pass
2440	6.349	Pass
2480	6.086	Pass

Max conducted output power (dBm)	Antenna Gain (dBi)	Max e.i.r.p. (W)	Limit (W)	Result
6.349	1	0.005	4	Pass

1.2 Test Plots

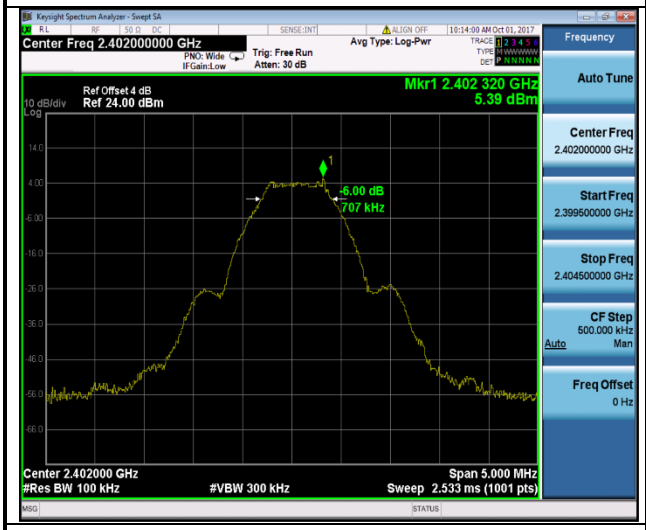
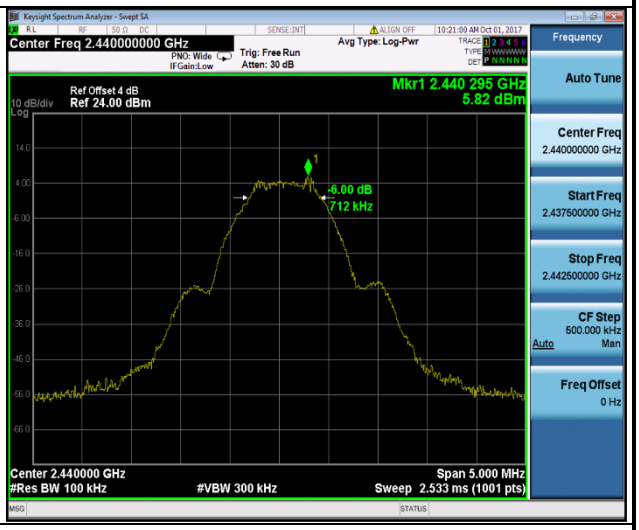
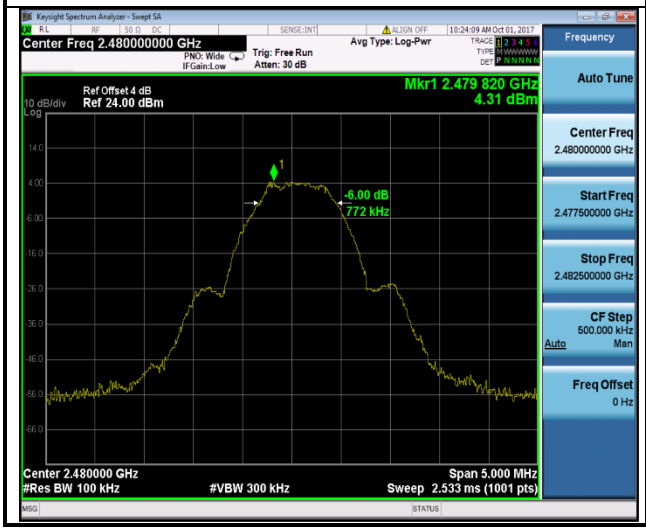
Output Power：2402MHz	Output Power：2440MHz
	
Output Power：2480MHz	
	

2. Minimum 6dB bandwidth

2.1 Test Data

BLE Occupied 6dB Bandwidth			
Test Frequency	Occupy Bandwidth (kHz)	Min Limit (kHz)	Result
2402	706.529	500	Pass
2440	711.579	500	Pass
2480	772.405	500	Pass

2.2 Test Plots

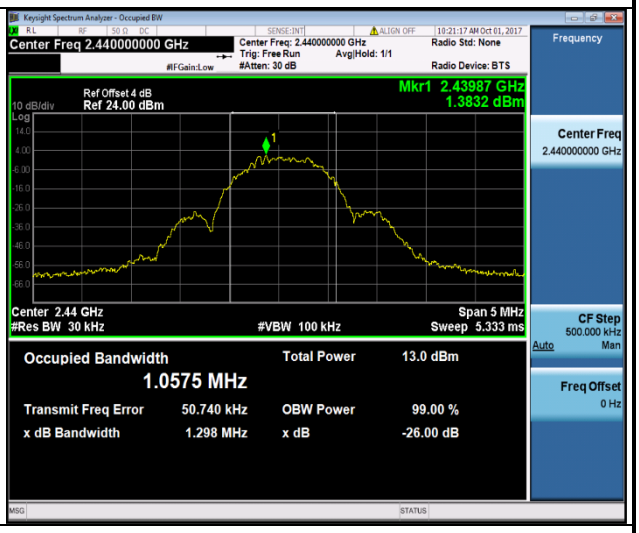
6dB Bandwidth：2402MHz	6dB Bandwidth：2440MHz
	
6dB Bandwidth：2480MHz	
	

3. Occupied bandwidth

3.1 Test Data

BLE 99% Occupied Bandwidth			
Test Frequency	99% Occupied Bandwidth (MHz)	Min Limit (MHz)	Result
2402	1.050	0.5	Pass
2440	1.057	0.5	Pass
2480	1.060	0.5	Pass

3.2 Test Plots

99% Bandwidth：2402MHz	99% Bandwidth：2440MHz
	
99% Bandwidth：2480MHz	
	

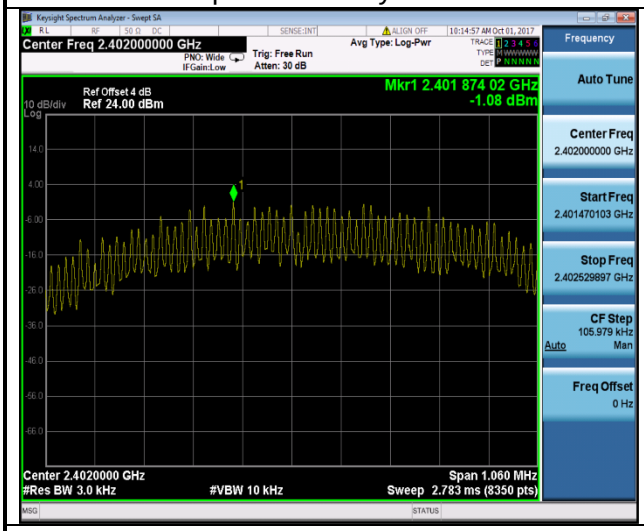
4. Power spectrum density

4.1 Test Data

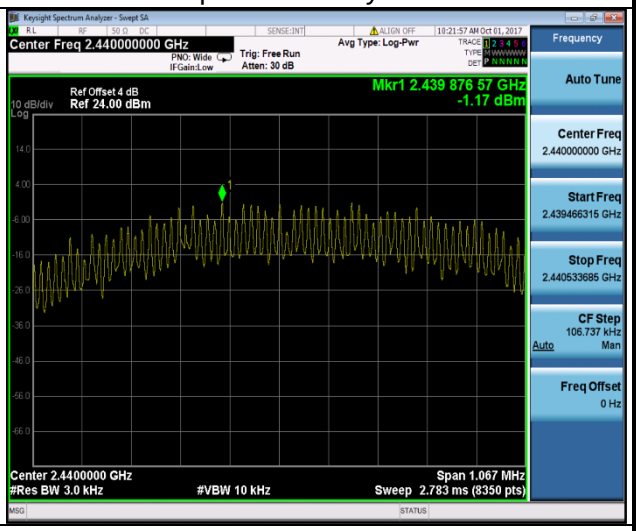
BLE Peak Power Spectral Density		
Test Frequency	PSD (dBm/3kHz)	Result
2402	-1.079	Pass
2440	-1.169	Pass
2480	-1.266	Pass

4.2 Test Plots

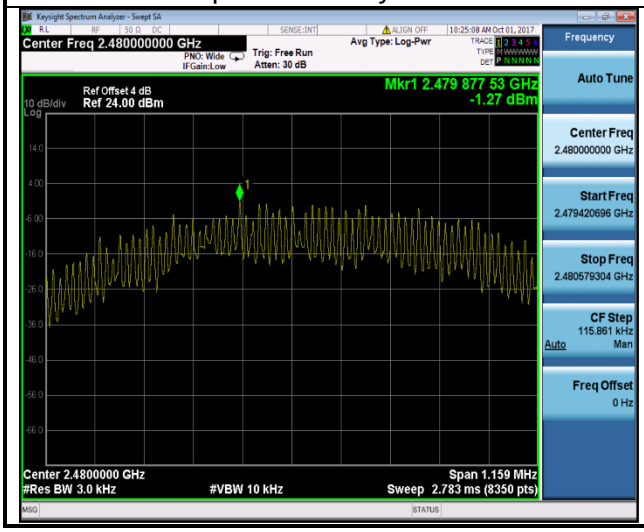
Power spectral density：2402MHz



Power spectral density：2440MHz



Power spectral density：2480MHz

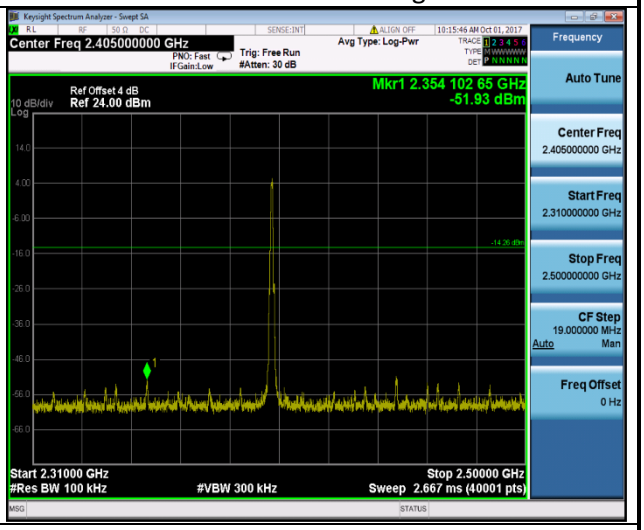
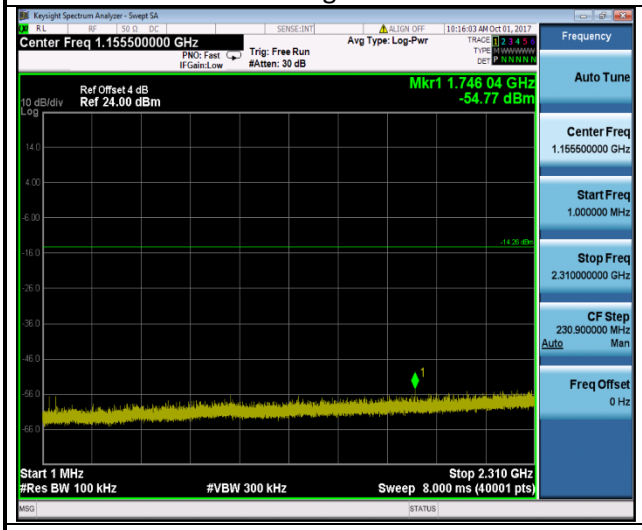
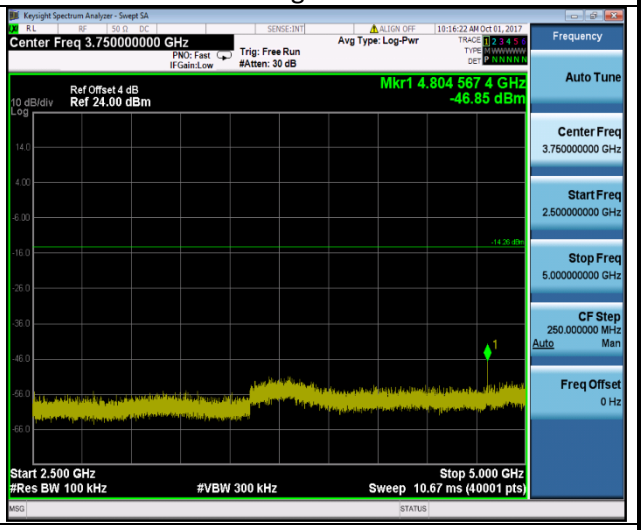
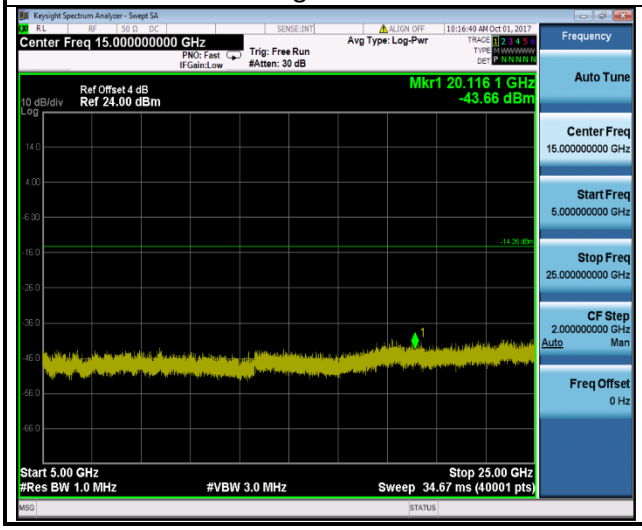


5. Emission outside the frequency band

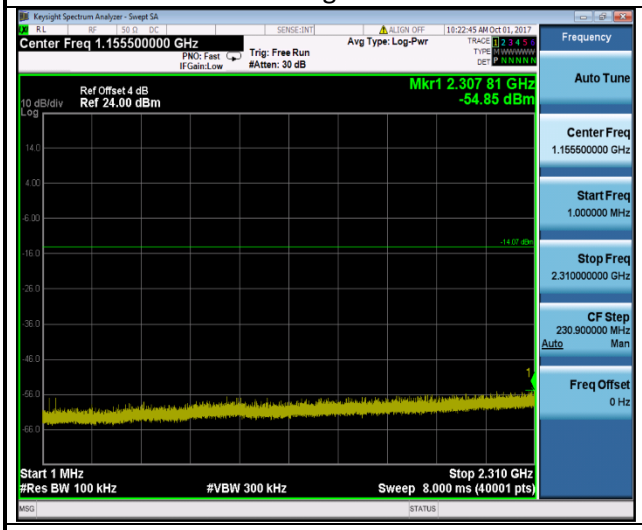
5.1 Test Data

BLE Transmitter Spurious Emission			
Test Frequency (MHz)	Test Range(MHz)	Spurious Emission (dBm)	Result
2402	1~2310	-53.94	Pass
2402	2500~5000	-46.19	Pass
2402	5000~25000	-40.25	Pass
2402	Band Edge	-51.93	Pass
2402	Reference Level	-14.26	Pass
2440	1~2310	-54.60	Pass
2440	2500~5000	-46.43	Pass
2440	5000~25000	-40.43	Pass
2440	Reference Level	-14.07	Pass
2480	1~2310	-54.90	Pass
2480	2500~5000	-46.79	Pass
2480	5000~25000	-40.08	Pass
2480	Band Edge	-53.84	Pass
2480	Reference Level	-14.32	Pass

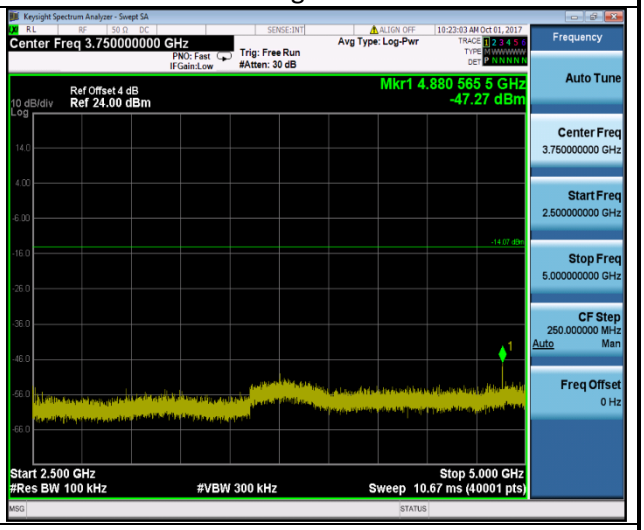
5.2 Test Plots

2402MHz Reference Level	2402MHz Bandedge
	
2402MHz Range:1~2310MHz	**2402MHz Range:2500~5000MHz**
	
2402MHz Range:5000~25000MHz	**2440MHz Reference Level**
	

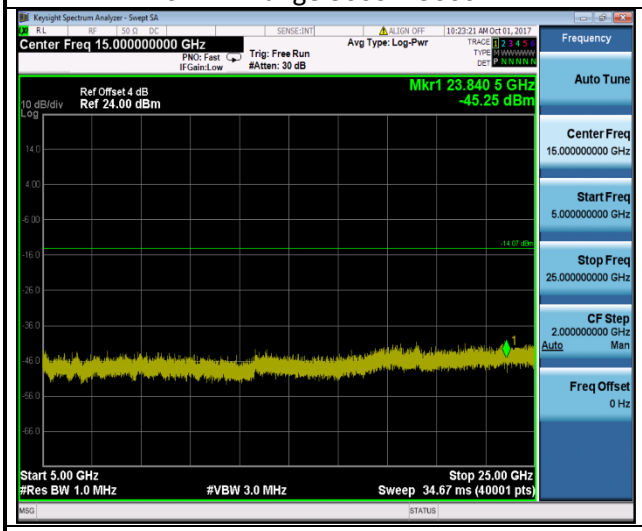
2440MHz Range:1~2310MHz



2440MHz Range:2500~5000MHz

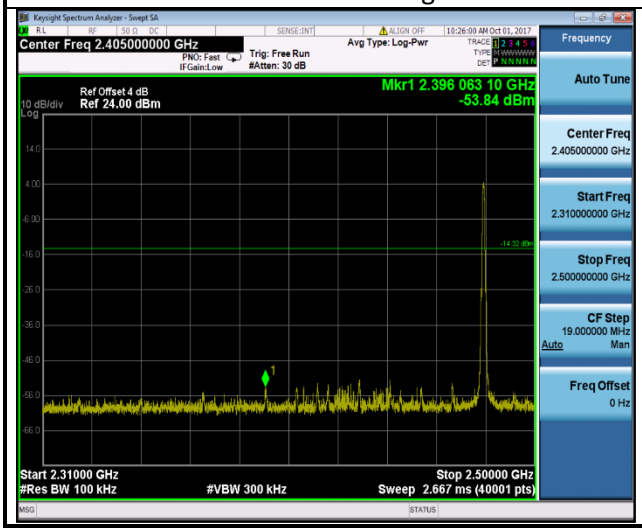


2440MHz Range:5000~25000MHz

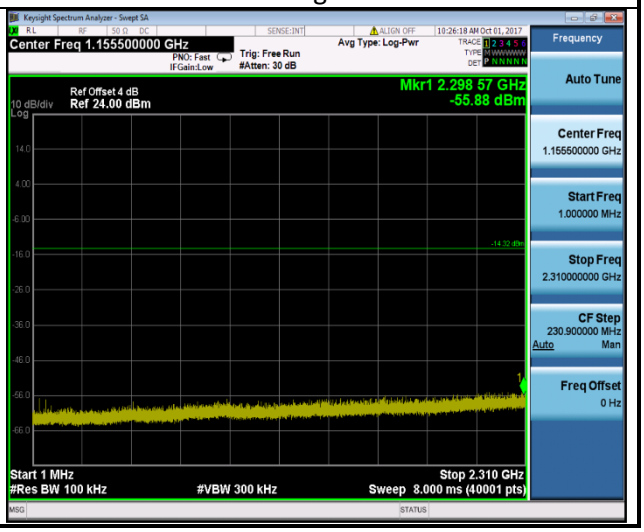


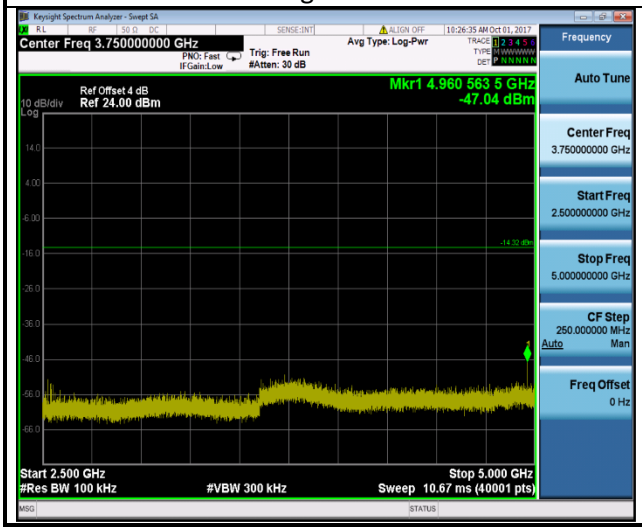
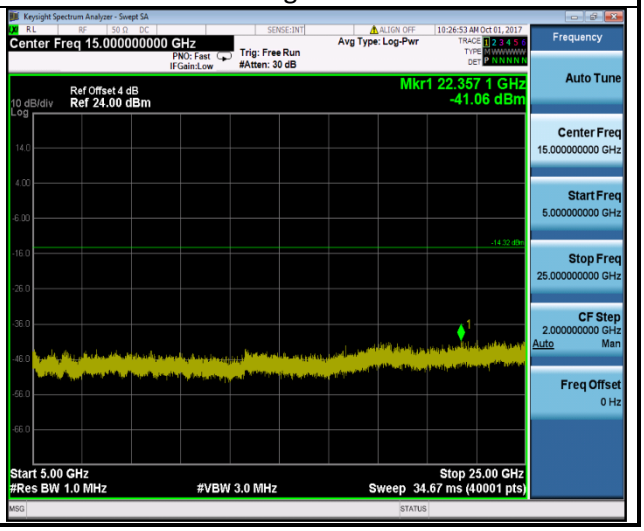
2480MHz Reference Level

2480MHz Bandedge



2480MHz Range:1~2310MHz



2480MHz Range:2500~5000MHz	2480MHz Range:5000~25000MHz
	

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