

TEST REPORT

Product Name : Automatic Litter Box
Model Number : PS0480
FCC ID : 2A87R-PS0480

Prepared for : Genhigh Tech Co., Limited
Address : #B2408, Building 9, District 2, Shenzhen Bay
ECO-Technology Park, #3609 Baishi Road, High-tech Zone
Community, Yuehai Street, Nanshan District, Shenzhen

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2605210236W01202R
Date(s) of Tests : June 8, 2026 to July 7, 2026
Date of issue : July 8, 2026

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Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2605210236W01202R	/	Original Report



1 TEST RESULT CERTIFICATION

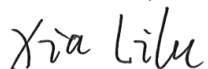
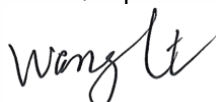
Applicant : Genhigh Tech Co., Limited
Address : #B2408, Building 9, District 2, Shenzhen Bay ECO-Technology Park, #3609
Baishi Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen
Manufacturer : Genhigh Tech Co., Limited
Address : #B2408, Building 9, District 2, Shenzhen Bay ECO-Technology Park, #3609
Baishi Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen
EUT : Automatic Litter Box
Model Name : PS0480
Trademark : neakasa

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15, Subpart C	PASS

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2020/Cor 1-2021 and the energy emitted by the sample EUT tested as described in this report is in compliance with the above table standards requirement.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : June 8, 2026 to July 7, 2026
Prepared by : 
Yu Xiaolan/Editor
Reviewer : 
Xia Lili/Supervisor
Approved & Authorized Signer : 
Wang Li/Manager



2 EUT TECHNICAL DESCRIPTION

Product Name:	Automatic Litter Box
Model Number:	PS0480
BLE Version:	V4.2
Device Type:	Bluetooth with BLE mode
Data Rate :	1Mbps
Modulation:	GFSK
Operating Frequency Range:	2402-2480MHz
Number of Channels:	40 Channels
Power Supply:	DC 12V
Temperature Range:	4℃~40℃

2.1 FEATURE OF EUT

a) Antenna information

Specification	Antenna	Brand	Model	Antenna Type	Gain
BT	1	/	/	FPC Antenna	4.53dBi
BLE	1	/	/	FPC Antenna	4.53dBi
2.4G WIFI	1	/	/	FPC Antenna	4.53dBi
Note: The antenna information provided by the manufacturer will have a certain impact on the test results.					

b) Modification Record

There were no modifications required for compliance.

c) For more details, please refer to the user's manual of the EUT.

3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(2)	DTS (6dB) Bandwidth	PASS	
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS	
15.247(e)	Maximum Power Spectral Density Level	PASS	
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS	
15.247(d) 15.209	Unwanted Emission Into Restricted Frequency Bands (conducted)	PASS	
15.247(d) 15.209	Radiated Spurious Emission	PASS	
15.207	Conducted Emission Test	N/A	
15.247(b)	Antenna Application	PASS	

NOTE 1: N/A is an abbreviation for not applicable.

NOTE 2: The results of this report do not take into account the uncertainty.

NOTE 3: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is filing to comply with the above table standards requirement.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:
 FCC 47 CFR Part 15, Subpart C
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02

4.2 MEASUREMENT EQUIPMENT USED

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Pre-Amplifier	Bonn	BLMA 011001N	2213967A	2025/10/16	1Year
EMI Test Receiver	Rohde & Schwarz	ESR7	102551	2025/10/16	1Year
Bilog Antenna	Schwarzbeck	VULB9163	9163142	2024/7/8	2Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1198	2025/5/13	2Year
Pre-Amplifier	Bonn	BLMA 0118-5G	2213967B-01	2025/10/16	1Year
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101290	2025/10/16	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13	2Year
Pre-Amplifier	Lunar EM	LNA18G26-40	J101213101001	2026/5/10	1Year
Pre-Amplifier	Lunar EM	LNA26G40-40	J1013131028001	2026/5/10	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13	2Year
Wideband Radio Communication Tester	R&S	CMW500	171168	2025/9/9	1Year
Coaxial Cable	TIMES	NmNm-7-C15702	N/A	2026/5/8	1Year
Coaxial Cable	TIMES	HF290-NMSM-6.5M	N/A	2026/5/8	1Year
Coaxial Cable	TIMES	LMR-240 N-N	N/A	2026/5/8	1Year

For Other Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Wideband Radio Communication Tester	R&S	CMW500	171168	2025/9/9	1Year
Frequency Extender	R&S	CMW-Z800A	100430	2025/9/9	1Year
Spectrum Analyzer	R&S	FSV3044	101289	2025/12/16	1Year
Analog Signal Generator	R&S	SMB100A	183237	2025/9/9	1Year
Vector Signal Generator	R&S	SMM100A	101808	2025/9/9	1Year
RF Control Unit(Power Meter)	Tonscend	JS0806-2	22C8060567	2025/9/9	1Year
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2026/5/8	1 Year
DC Power Supply	KEYSIGHT	E3642A	MY53030016	2025/9/9	1 Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (BLE :1Mbps and 2Mbps) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for BLE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	...	...
1	2404	20	2442	37	2476
2	2406	21	2444	38	2478
...	...	...	...	39	2480
Note: $f_c = 2402\text{MHz} + k \times 1\text{MHz}$ $k=1$ to 39					

Test Frequency and channel for BLE:

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	39	2480

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

Site Description

EMC Lab. : **Accredited by CNAS**
The Certificate Registration Number is L2291
The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC
Designation Number: CN1204
Test Firm Registration Number: 882943

Accredited by A2LA
The Certificate Number is 4321.01

Accredited by Industry Canada
The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.
Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen,
Guangdong, China

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

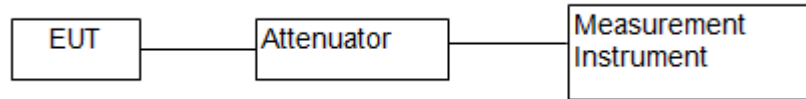
Measurement Uncertainty for a level of Confidence of 95%.



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The BLE component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020/Cor 1-2021. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020/Cor 1-2021 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

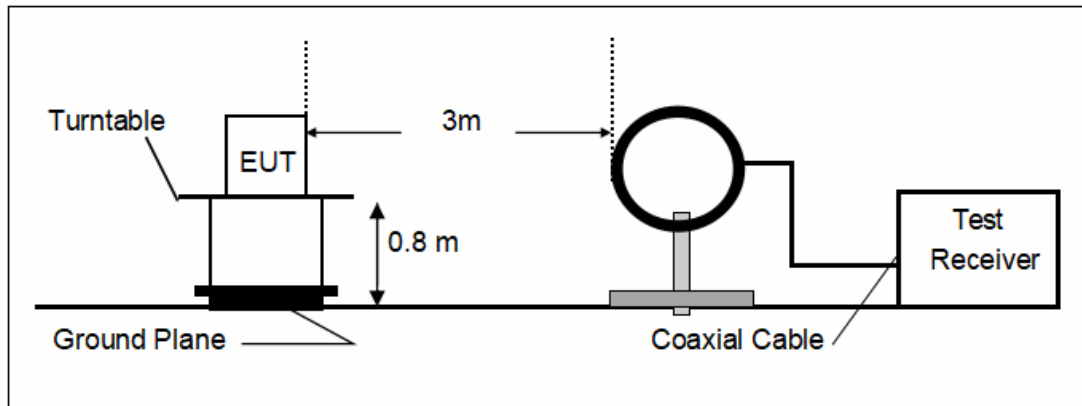
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

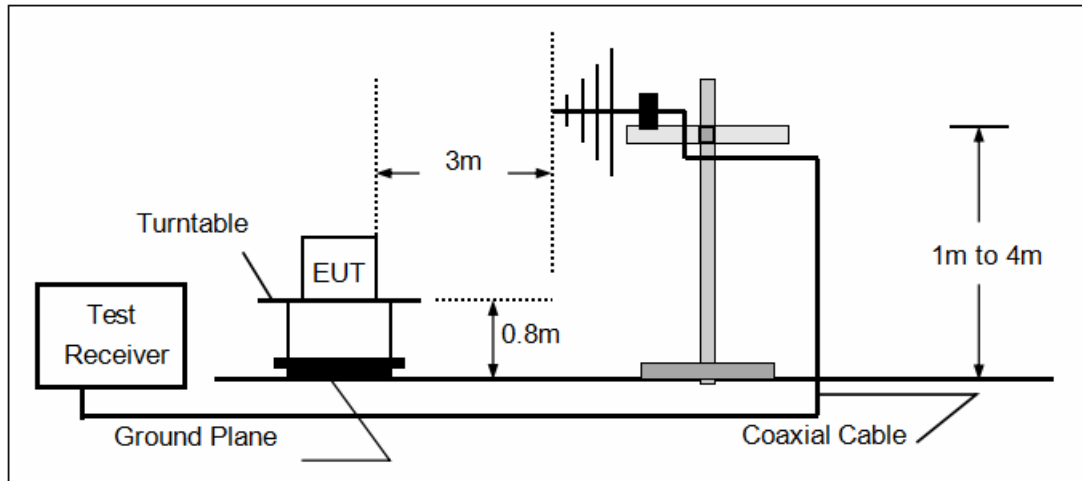
Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

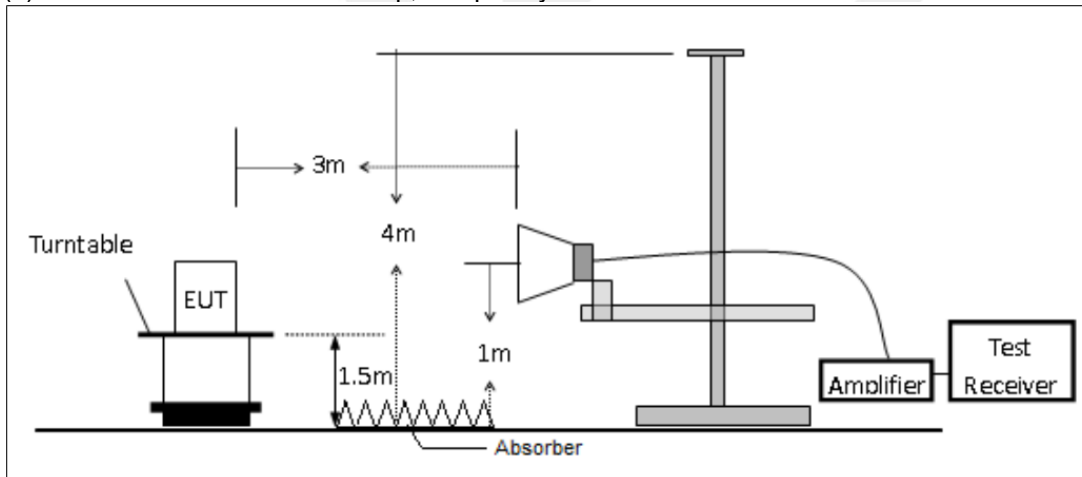
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

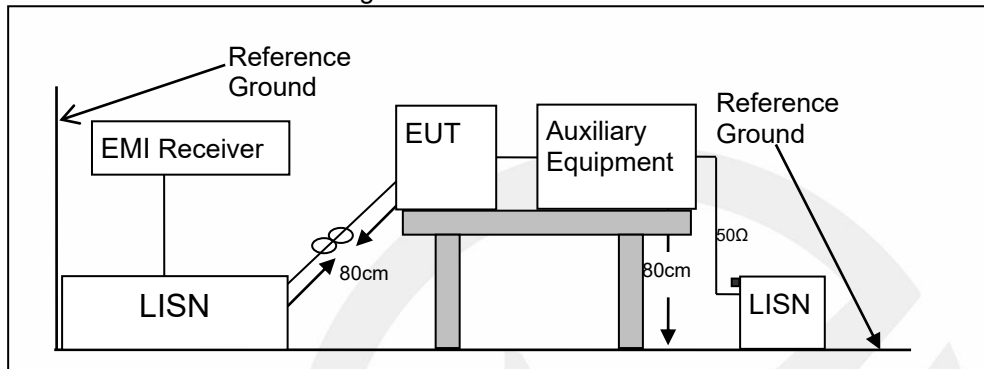


7.3 CONDUCTED EMISSION TEST SETUP

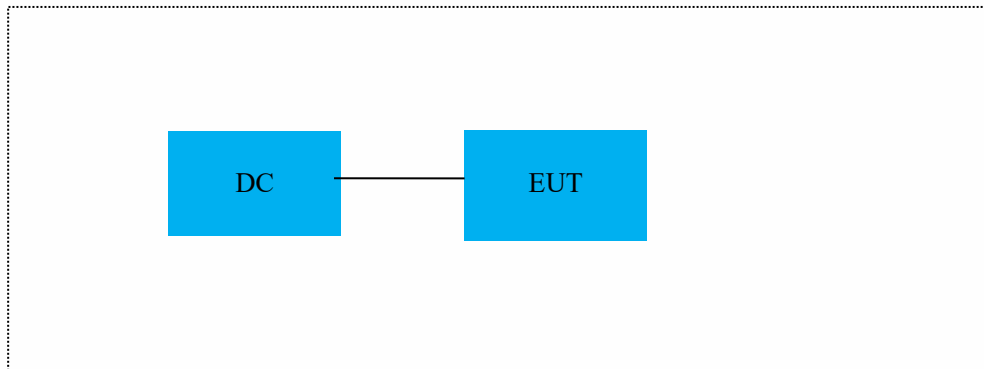
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020/Cor 1-2021 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

N/A

Notes:

- 1.All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2.Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 DTS 6DB BANDWIDTH

8.1.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02.

8.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1.

8.1.4 Test Procedure

The EUT was operating in BLE mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

Set RBW = 100 kHz.

Set the video bandwidth (VBW) = 300 kHz.

Set Span = 2 times OBW.

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

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.

Measure and record the results in the test report.

Test Results

Temperature : 23.5°C

ATM Pressure: 1011 mbar

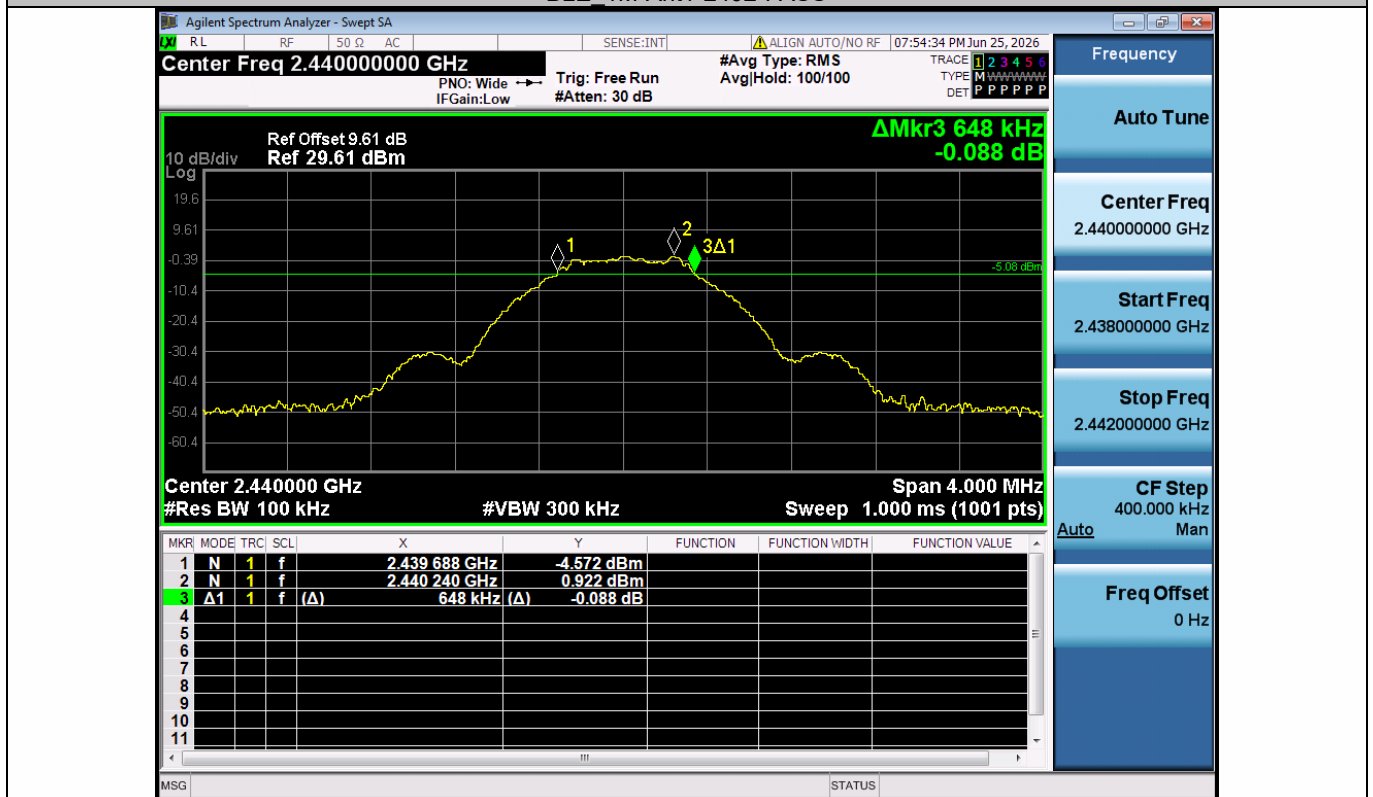
Humidity : 58 %

Test Engineer: Zhu Guangjun

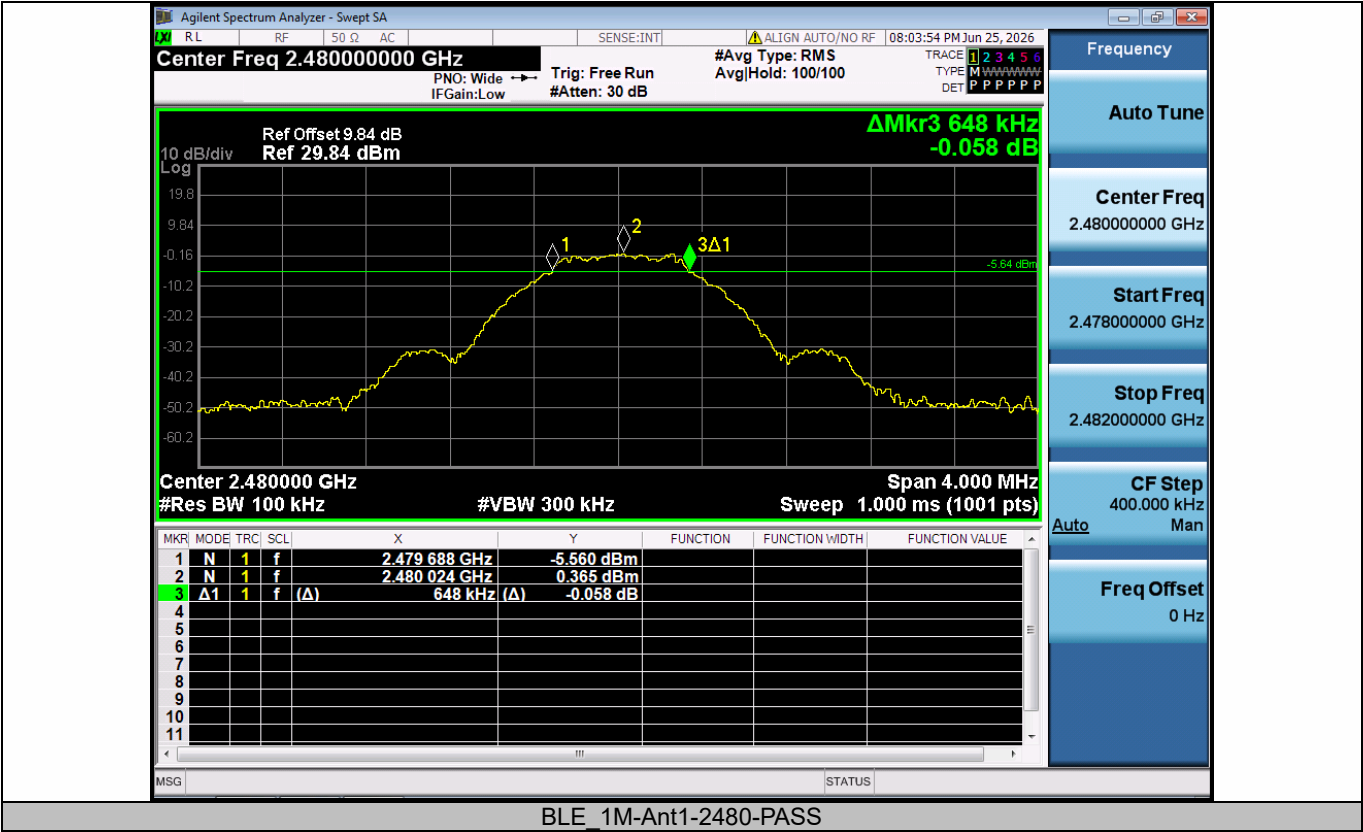
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.668	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.648	2439.688	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.648	2479.688	2480.336	0.5	PASS



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



8.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02.

8.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

8.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1.

8.2.4 Test Procedure

■ According to FCC Part 15.247(b)(3)

As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. For smart system, Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Set the RBW $\geq$ DTS bandwidth (about 1MHz).

Set VBW = 3*RBW (about 3MHz).

Set the span $\geq$ 3*RBW.

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

■ According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Results

Temperature : 23.5°C

ATM Pressure:

1011 mbar

Humidity : 58 %

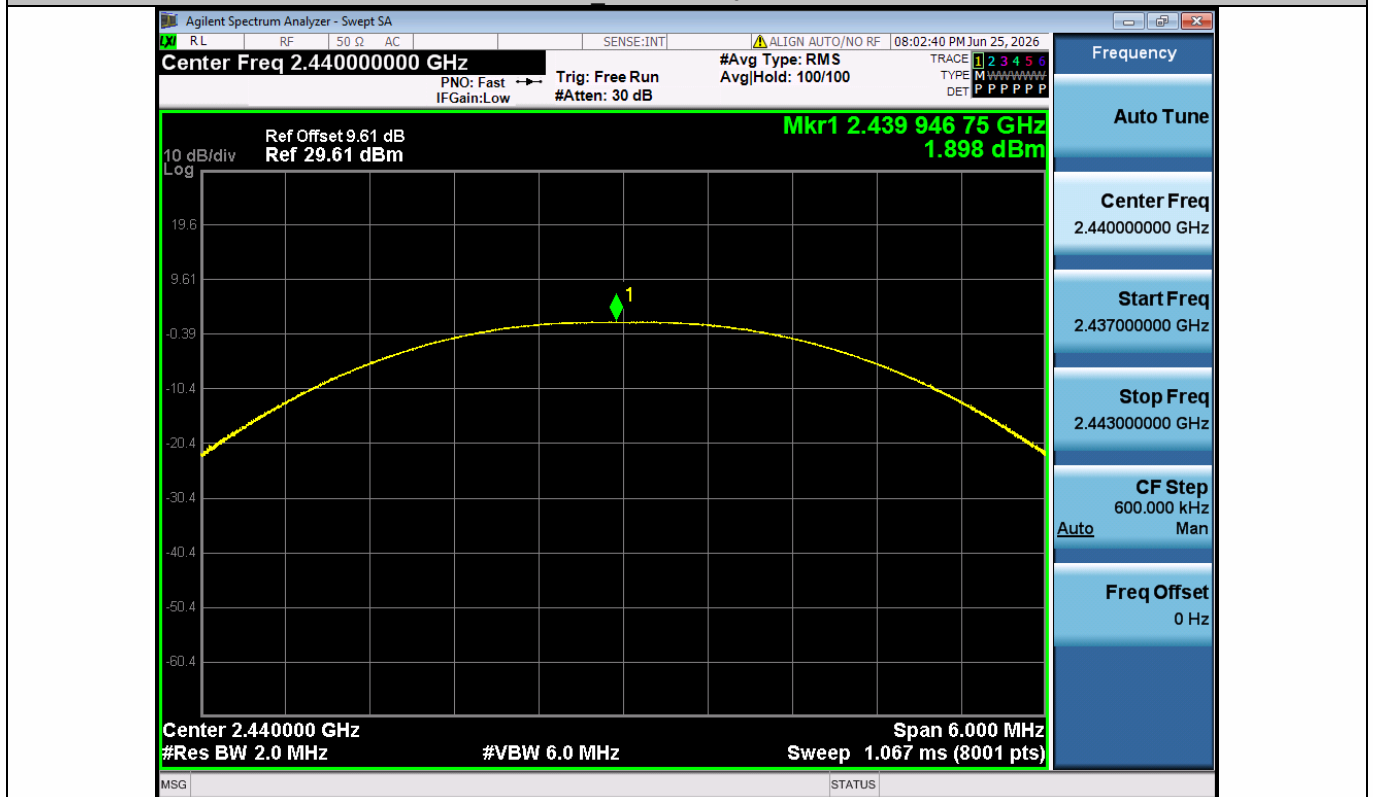
Test Engineer:

Zhu Guangjun

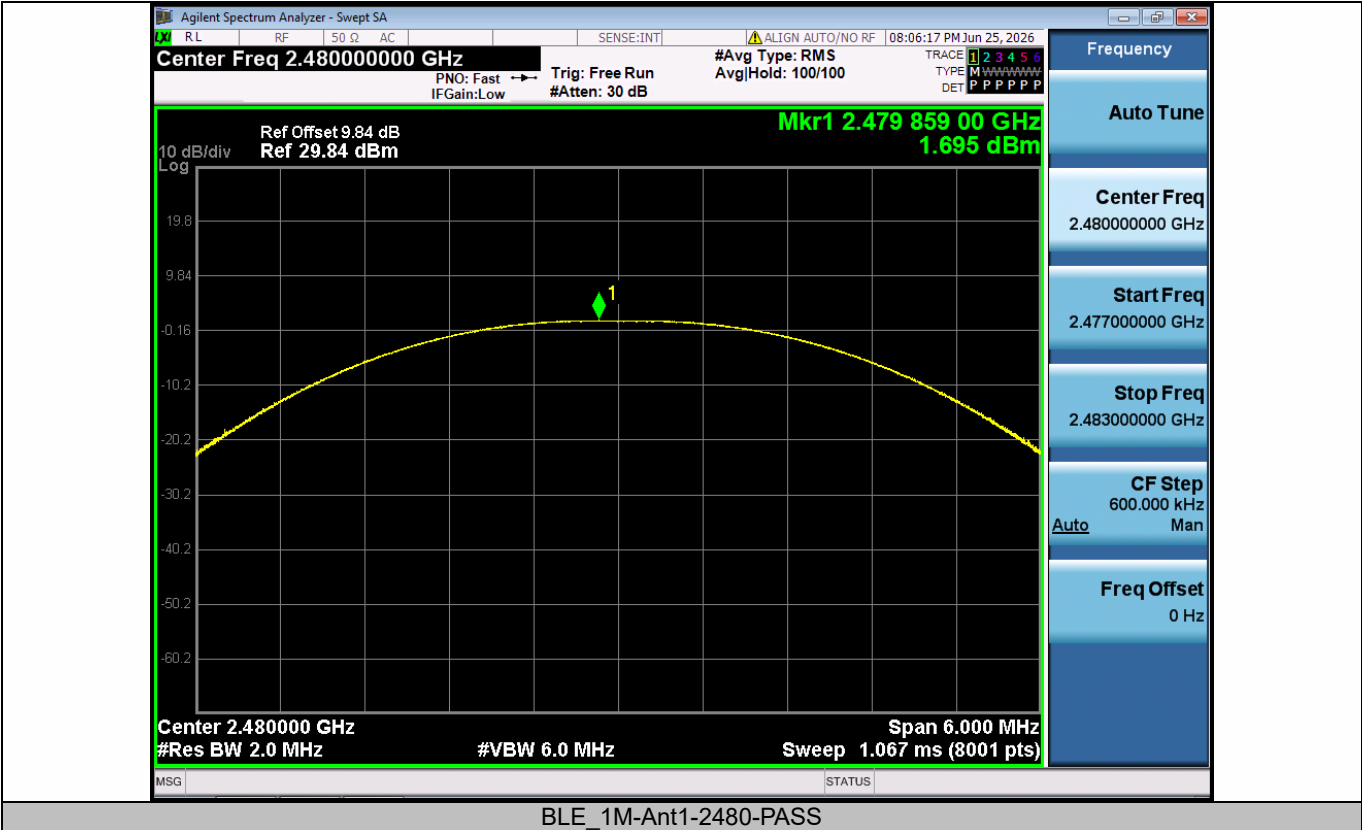
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE 1M	Ant1	2402	2.22	≤ 30	6.75	≤ 36	PASS
BLE 1M	Ant1	2440	1.90	≤ 30	6.43	≤ 36	PASS
BLE 1M	Ant1	2480	1.70	≤ 30	6.23	≤ 36	PASS



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



8.3 MAXIMUM POWER SPECTRAL DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02.

8.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1.

8.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance.

The transmitter output (antenna port) was connected to the spectrum analyzer.

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

8.3.5 Test Results

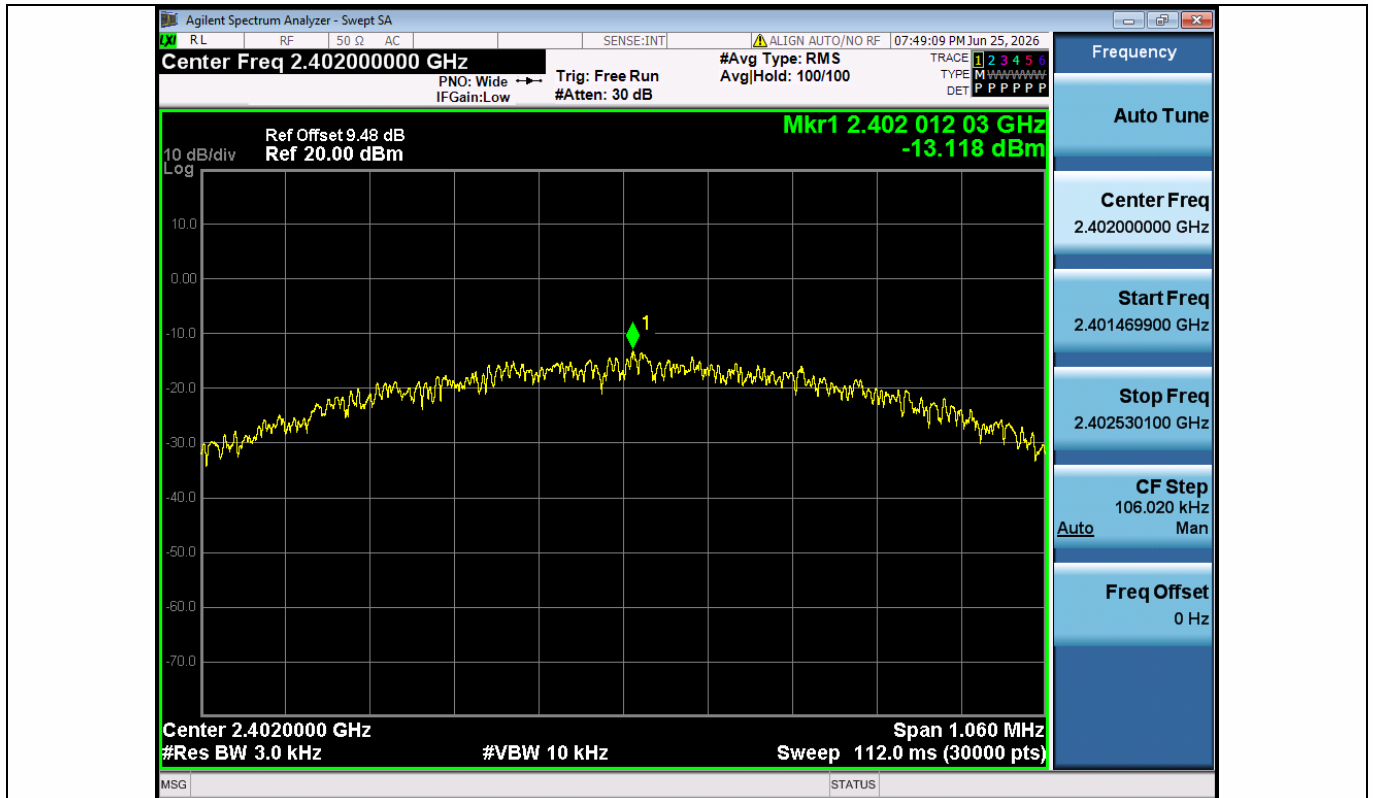
Temperature : 23.5°C

ATM Pressure: 1011 mbar

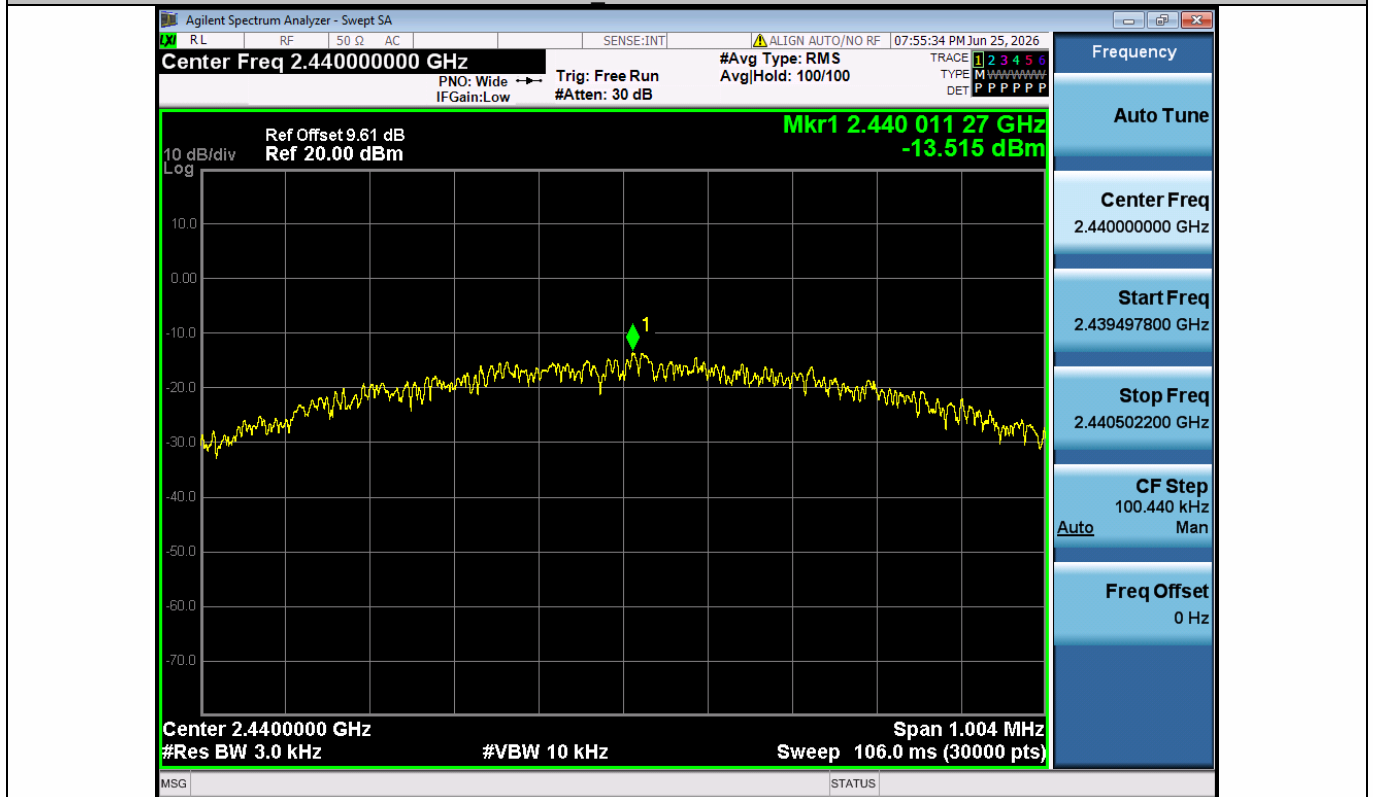
Humidity : 58 %

Test Engineer: Zhu Guangjun

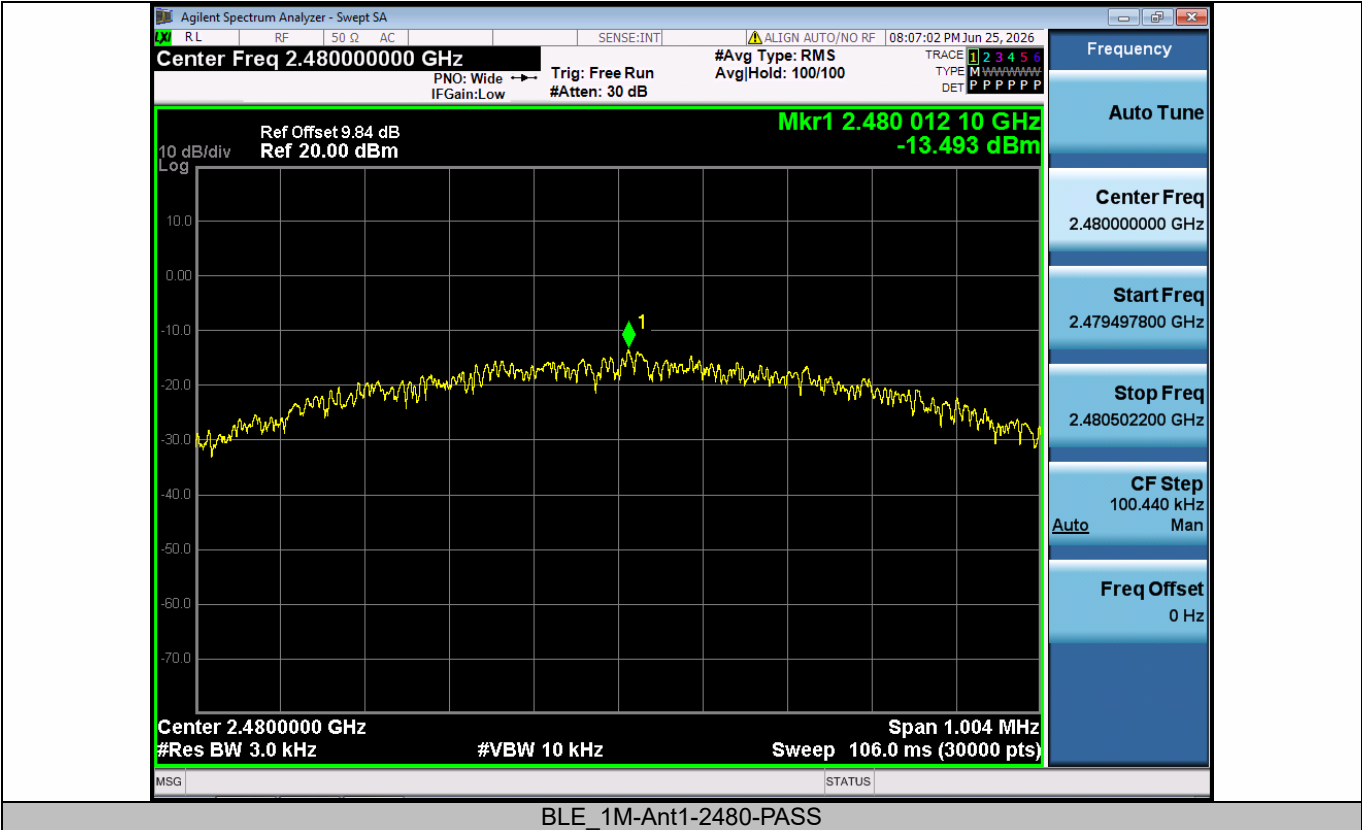
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.12	≤8.00	PASS
BLE_1M	Ant1	2440	-13.52	≤8.00	PASS
BLE_1M	Ant1	2480	-13.49	≤8.00	PASS



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02.

8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1.

8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer.

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to = 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

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

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

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. Report the three highest emissions relative to the limit.

8.4.5 Test Results

Temperature : 23.5°C ATM Pressure: 1011 mbar
Humidity : 58 % Test Engineer: Zhu Guangjun

All the modes were tested and the data of the worst modes are attached the following pages.

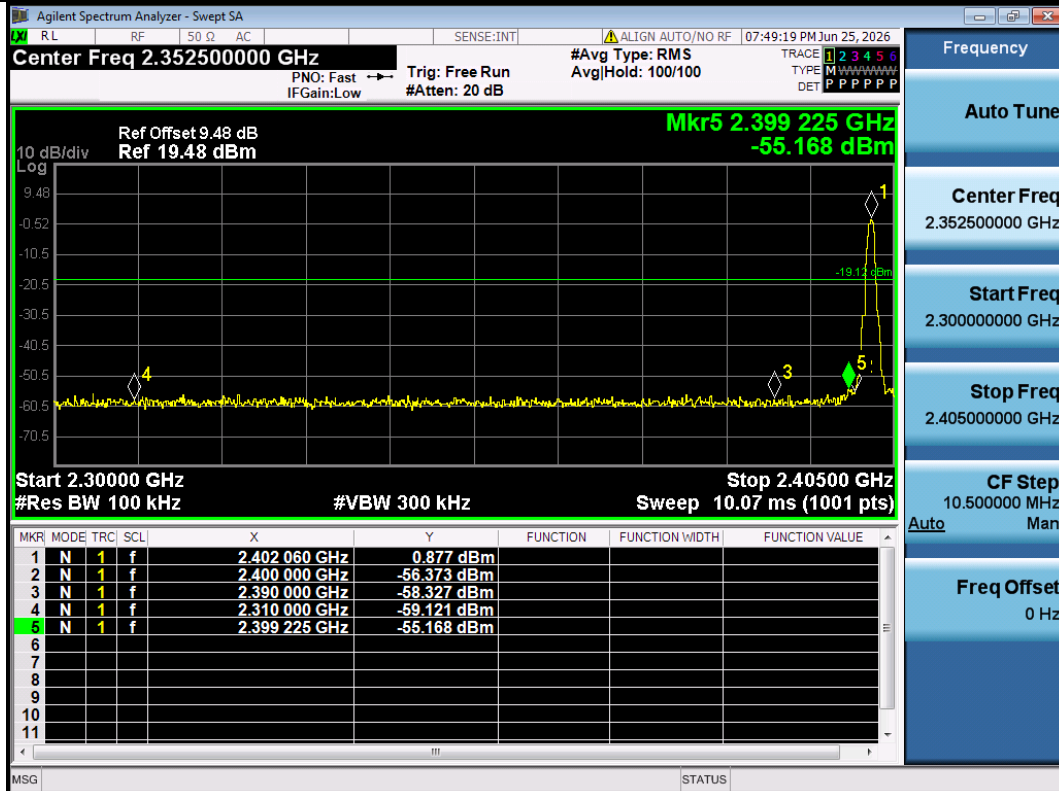
Band edge measurements

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.88	-55.17	≤-19.12	PASS
BLE_1M	Ant1	High	2480	0.99	-55.96	≤-19.01	PASS

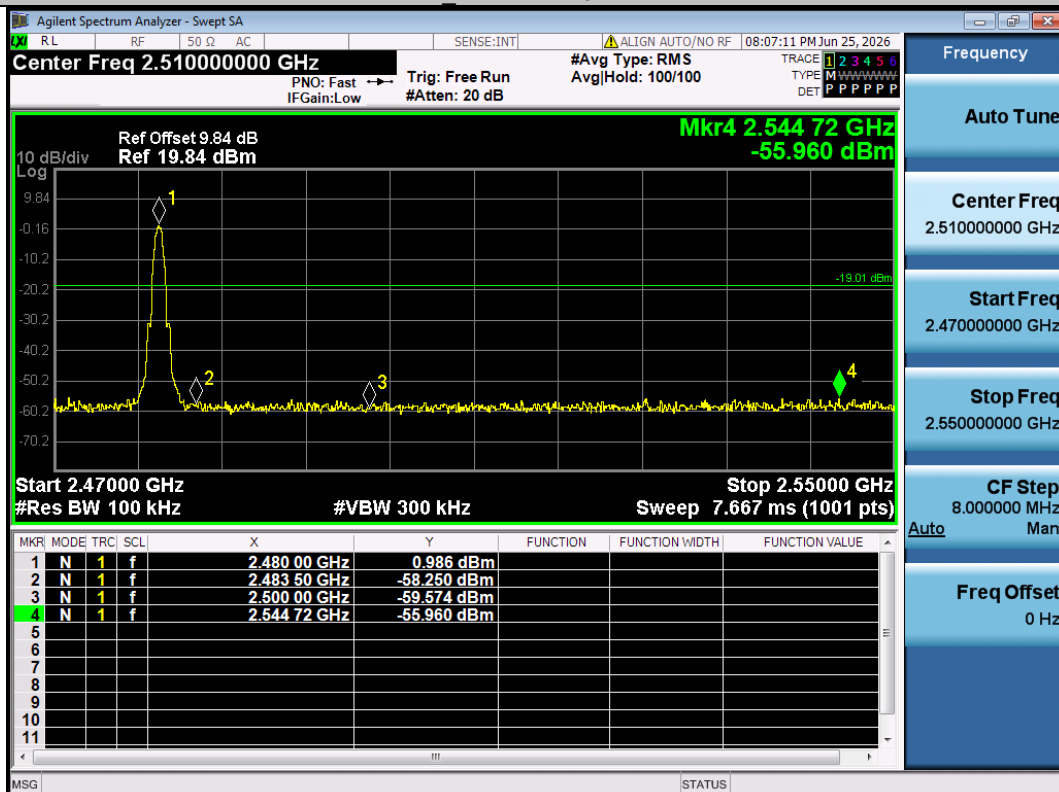
Reference level measurement and Conducted spurious emission

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.41	0.41	---	PASS
BLE_1M	Ant1	2402	30~1000	0.41	-51.11	≤-19.59	PASS
BLE_1M	Ant1	2402	1000~26500	0.41	-38.94	≤-19.59	PASS
BLE_1M	Ant1	2440	0~Reference	0.35	0.35	---	PASS
BLE_1M	Ant1	2440	30~1000	0.35	-51.32	≤-19.65	PASS
BLE_1M	Ant1	2440	1000~26500	0.35	-39.24	≤-19.65	PASS
BLE_1M	Ant1	2480	0~Reference	0.32	0.32	---	PASS
BLE_1M	Ant1	2480	30~1000	0.32	-50.66	≤-19.68	PASS
BLE_1M	Ant1	2480	1000~26500	0.32	-39.58	≤-19.68	PASS

Band edge measurements

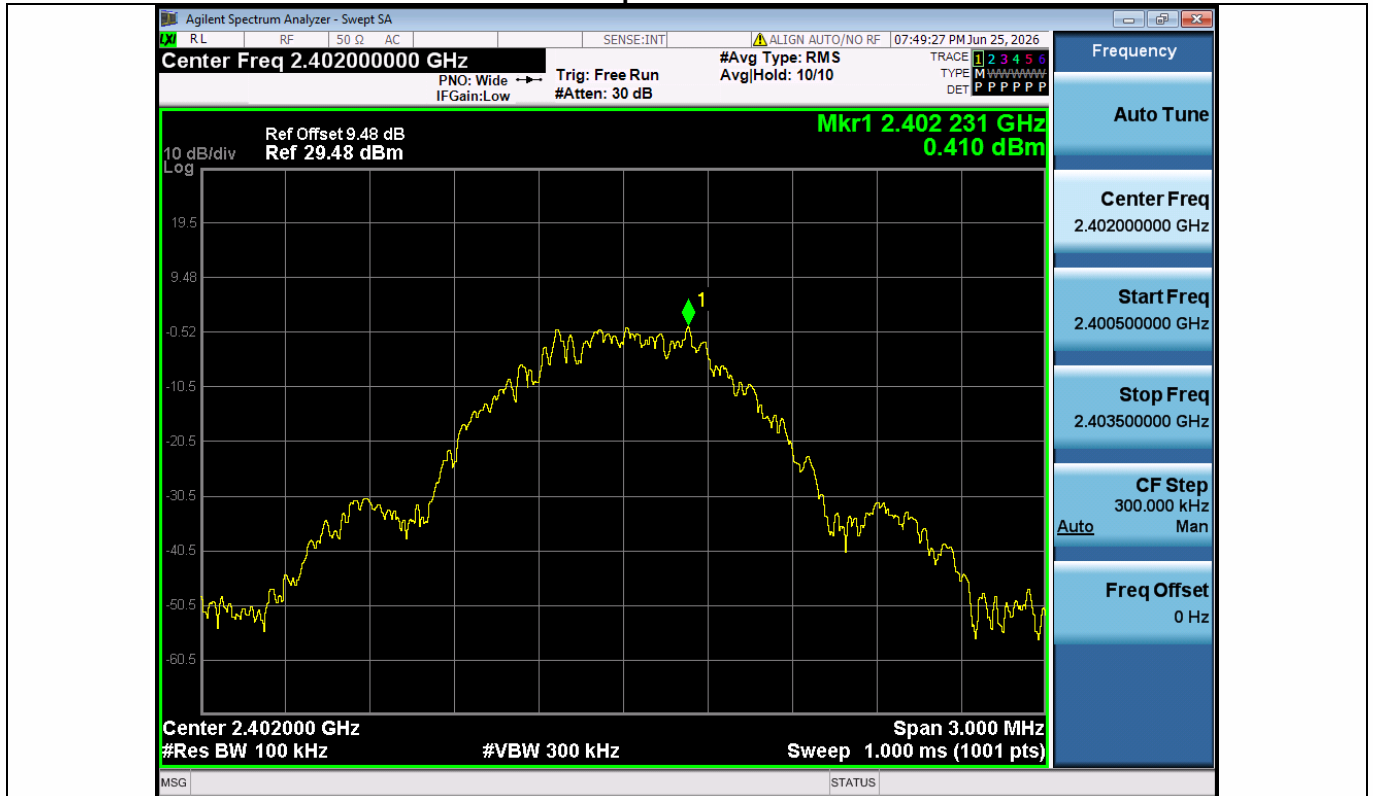


BLE_1M-Ant1-2402-PASS

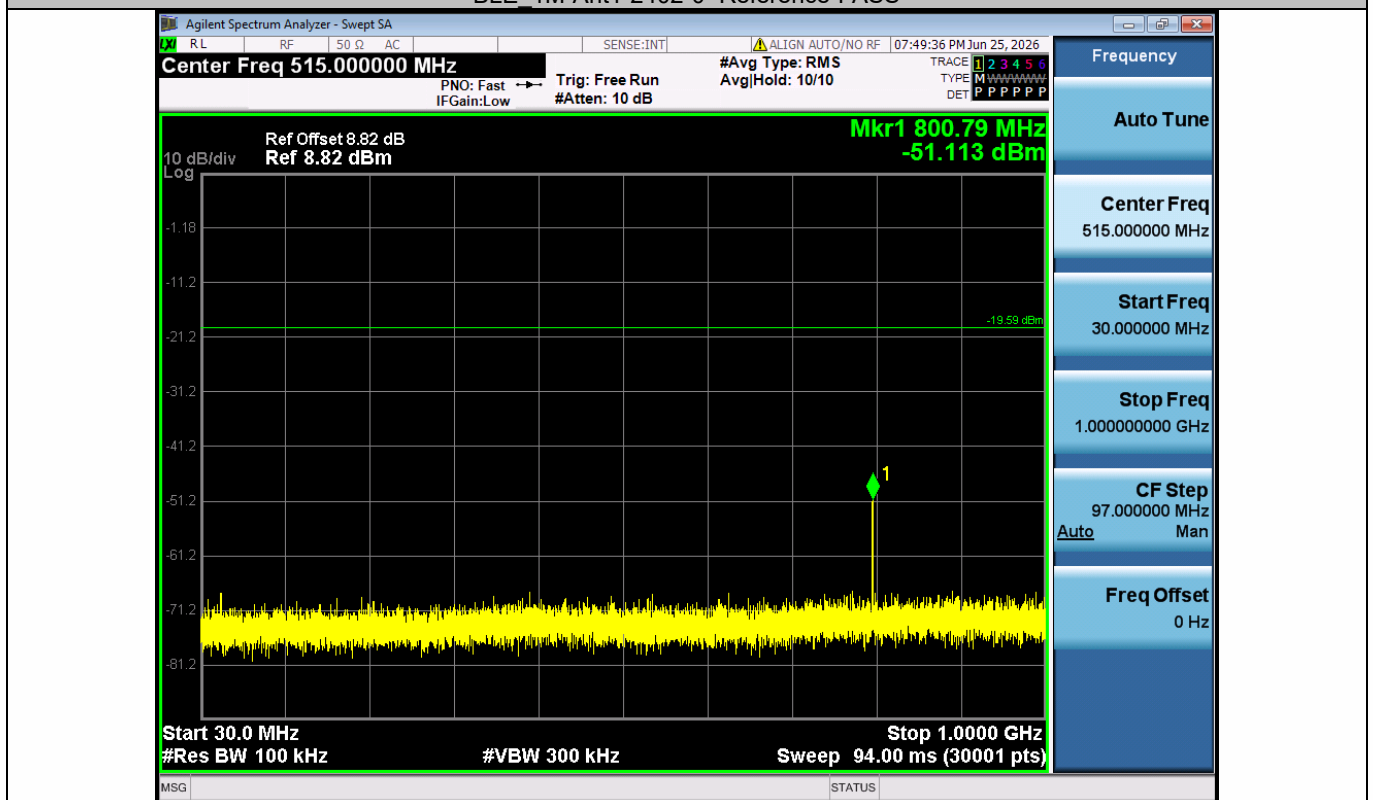


BLE_1M-Ant1-2480-PASS

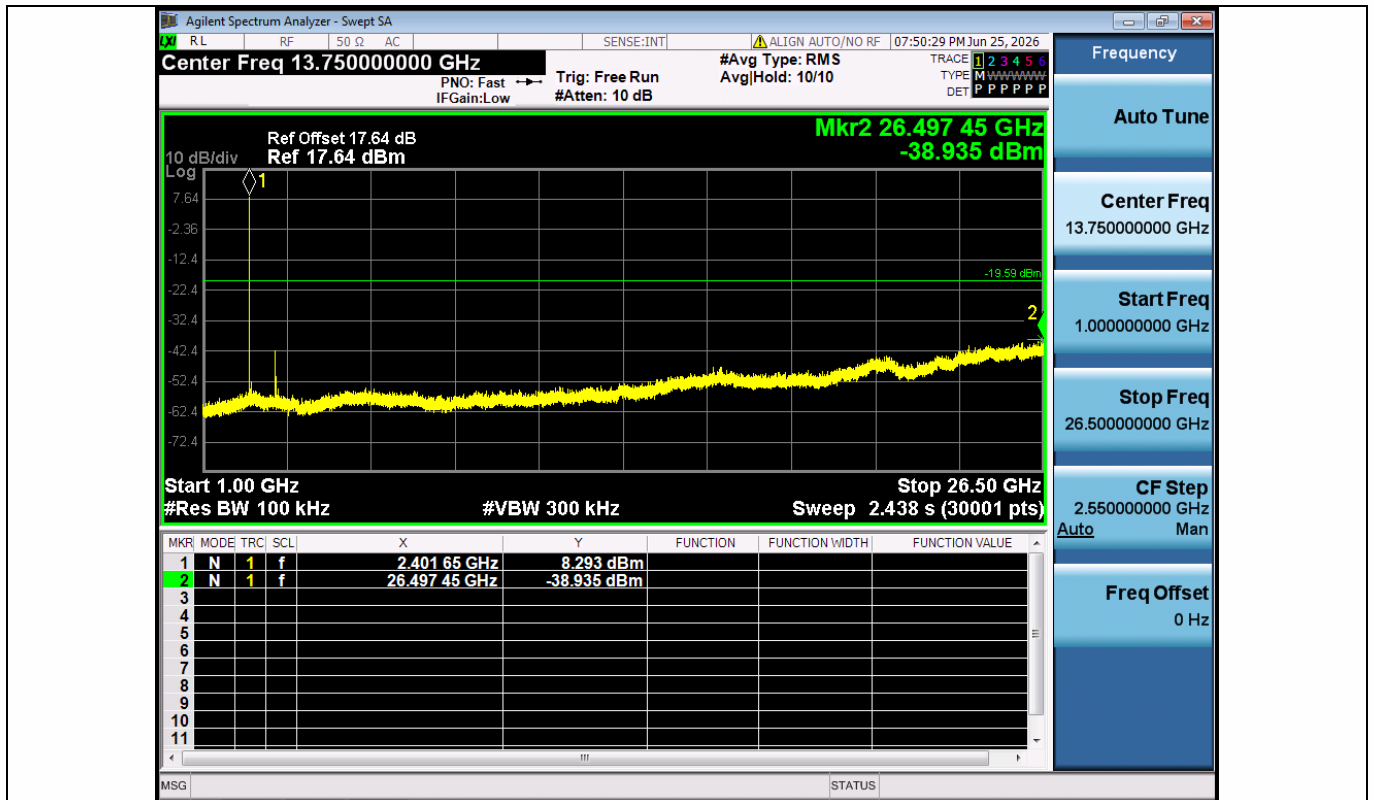
Reference level measurement and Conducted spurious emission



BLE 1M-Ant1-2402-0~Reference-PASS



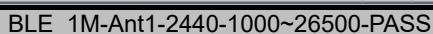
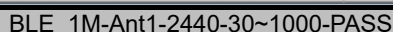
BLE 1M-Ant1-2402-30~1000-PASS

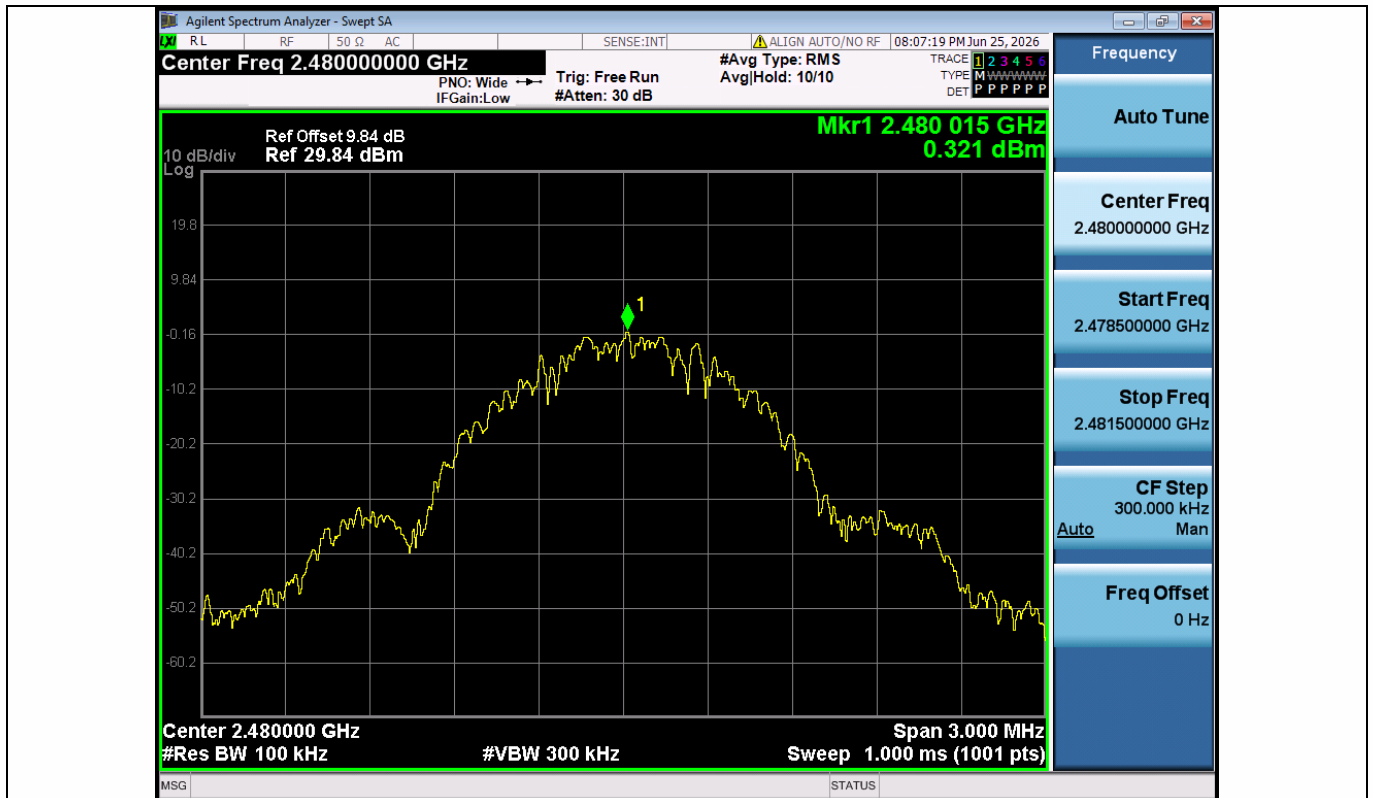


BLE_1M-Ant1-2402-1000~26500-PASS

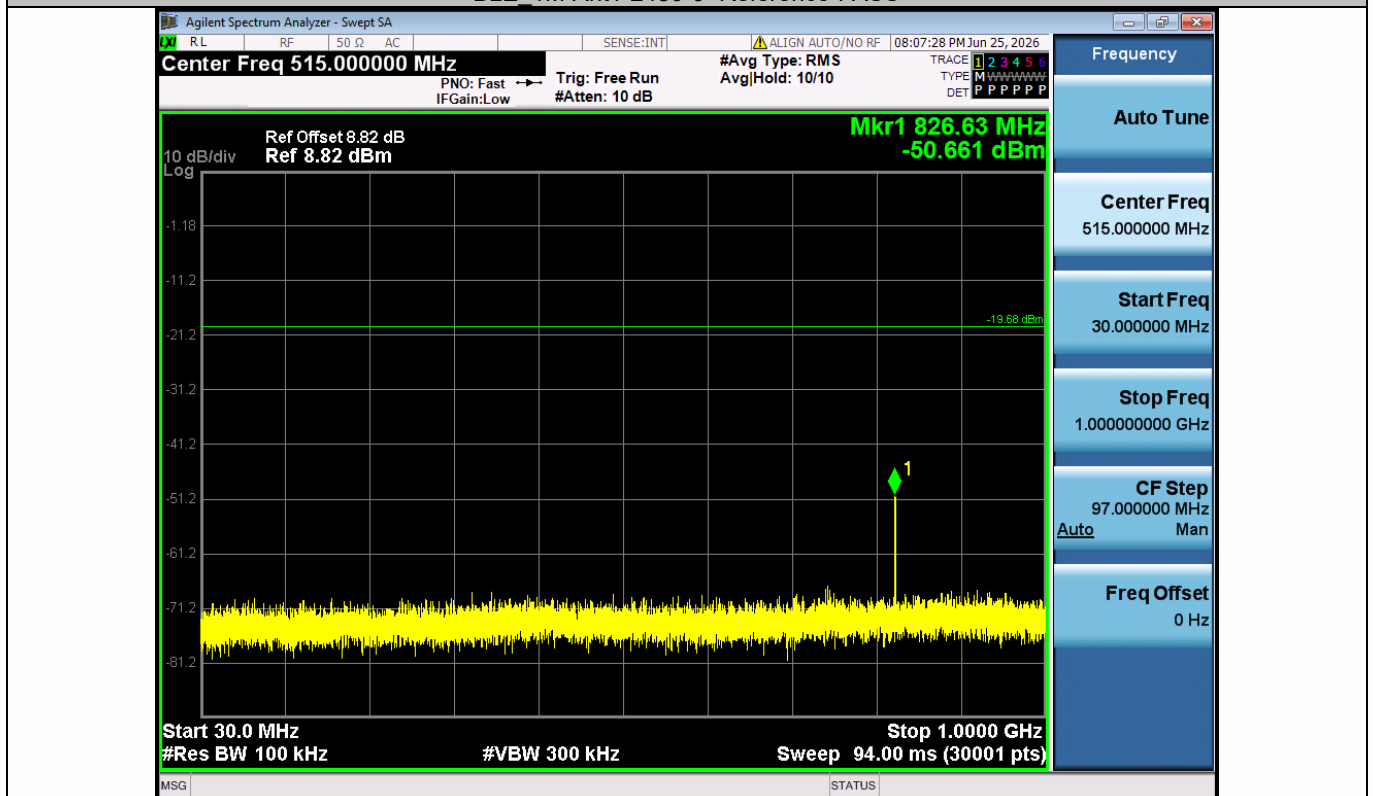


BLE_1M-Ant1-2440-0~Reference-PASS





BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02.

8.5.2 Conformance Limit

According to FCC Part 15.247(d): 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) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2.

8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured.

RBW = 1 MHz for $f \geq 1$ GHz(1GHz to 25GHz), 100 kHz for $f < 1$ GHz(30MHz to 1GHz).

VBW $\geq$ RBW.

Sweep = auto.

Detector function = peak.

Trace = max hold.

Follow the guidelines in ANSI C63.10-2020/Cor 1-2021 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.



8.5.5 Test Results

Temperature : 23.5°C ATM Pressure: 1011 mbar
Humidity : 58 % Test Engineer: LJM

All of the configurations or modes are tested, the data of the worst case is recorded as below.

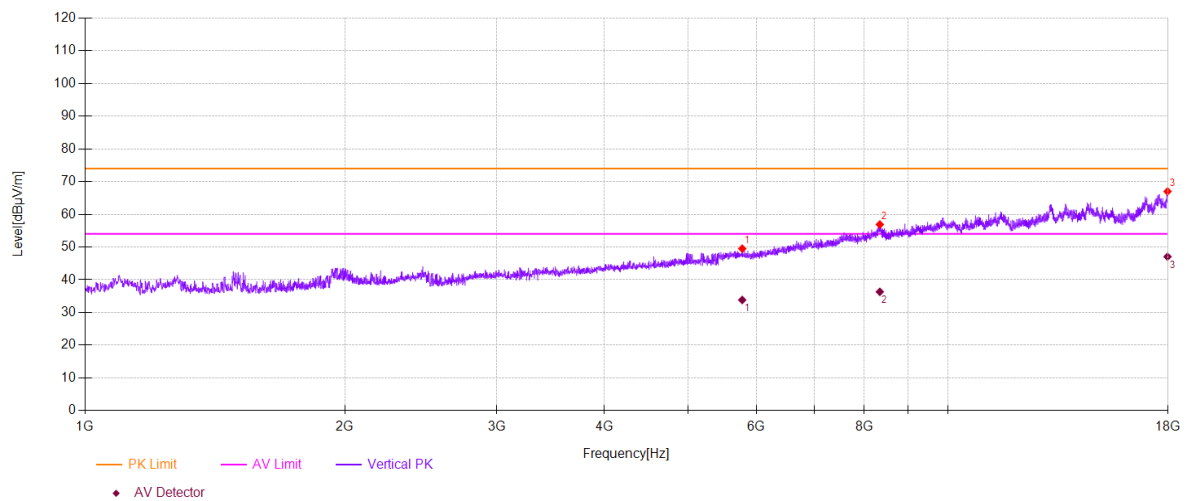
■ Spurious Emission below 30MHz (9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Test mode: BLE(1M) Frequency: Channel 0: 2402MHz

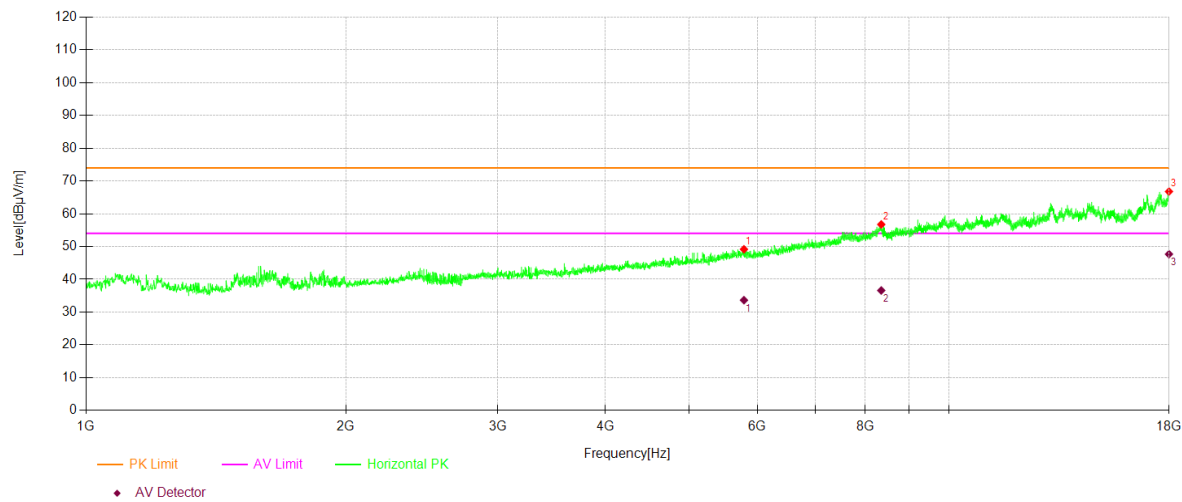


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5776.87	49.51	-8.68	74.00	24.49	PK	Vertical
2	8340	56.90	-2.10	74.00	17.10	PK	Vertical
3	17975.6	67.00	11.09	74.00	7.00	PK	Vertical

AV Final Data List

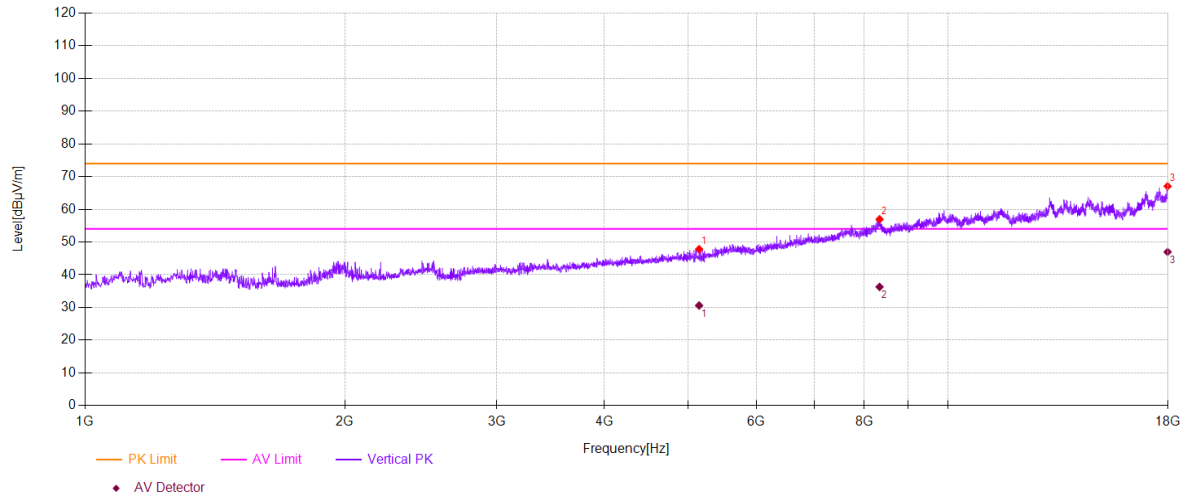
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5776.875	33.83	54.00	20.17	AV	Vertical
2	8340	36.32	54.00	17.68	AV	Vertical
3	17975.62	47.05	54.00	6.95	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor[dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	5788.12	49.17	-8.63	74.00	24.83	PK	Horizontal
2	8349.37	56.75	-2.08	74.00	17.25	PK	Horizontal
3	17994.3	66.78	11.85	74.00	7.22	PK	Horizontal

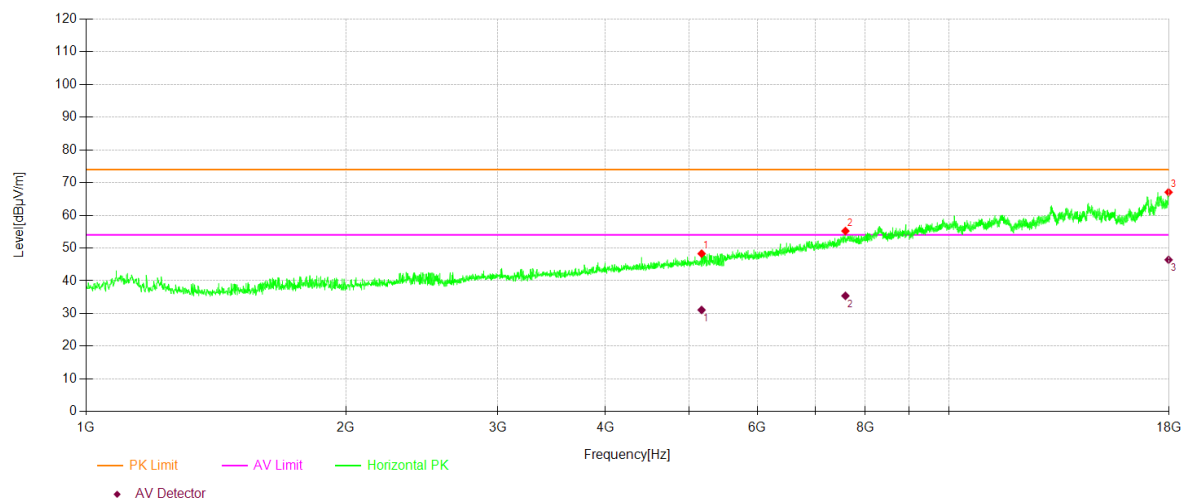
AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Detector	Polarity
1	5788.125	33.65	54.00	20.35	AV	Horizontal
2	8349.375	36.61	54.00	17.39	AV	Horizontal
3	17994.37	47.68	54.00	6.32	AV	Horizontal

Test mode: BLE(1M) Frequency: Channel 19: 2440MHz



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5148.75	47.83	-11.57	74.00	26.17	PK	Vertical
2	8334.37	56.96	-2.11	74.00	17.04	PK	Vertical
3	17977.5	67.06	11.17	74.00	6.94	PK	Vertical

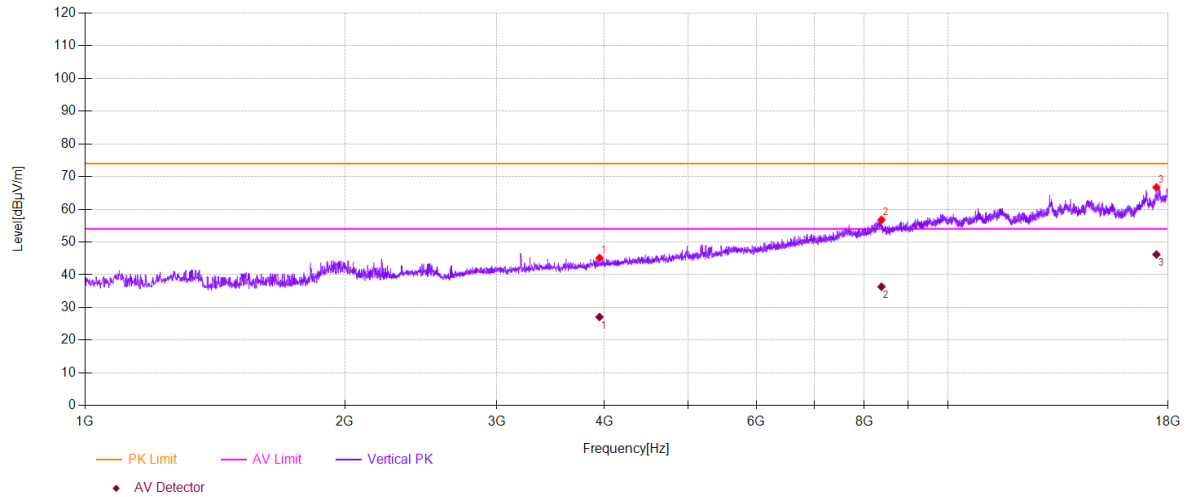
AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5148.75	30.62	54.00	23.38	AV	Vertical
2	8334.375	36.29	54.00	17.71	AV	Vertical
3	17977.5	46.97	54.00	7.03	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5169.37	48.28	-11.43	74.00	25.72	PK	Horizontal
2	7588.12	55.20	-3.59	74.00	18.80	PK	Horizontal
3	17977.5	67.06	11.17	74.00	6.94	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5169.375	31.08	54.00	22.92	AV	Horizontal
2	7588.125	35.40	54.00	18.60	AV	Horizontal
3	17977.5	46.41	54.00	7.59	AV	Horizontal

Test mode: BLE(1M) Frequency: Channel 39: 2480MHz

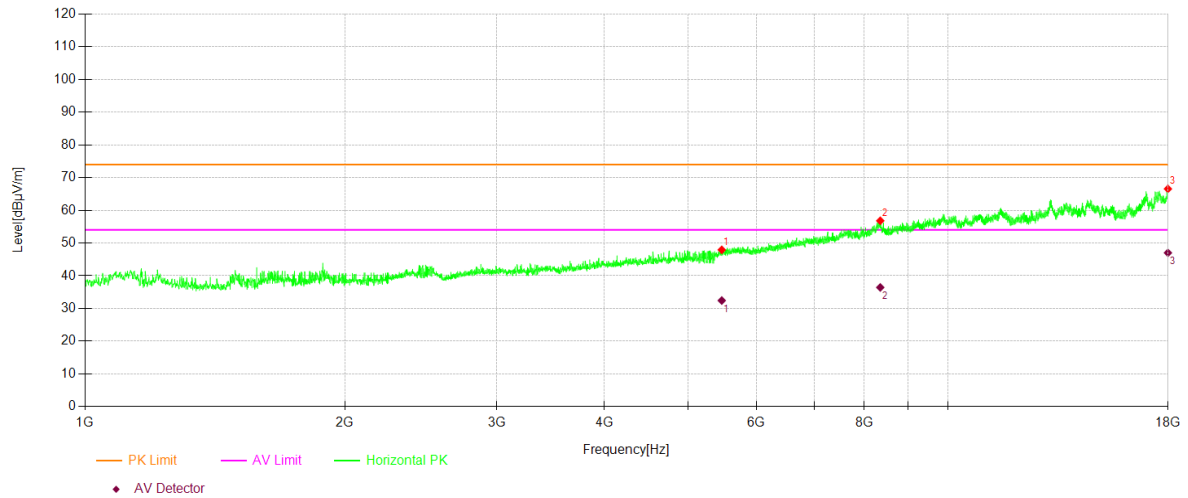


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3946.87	45.13	-15.09	74.00	28.87	PK	Vertical
2	8377.5	56.80	-2.07	74.00	17.20	PK	Vertical
3	17448.7	66.71	10.26	74.00	7.29	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	3946.875	27.10	54.00	26.90	AV	Vertical
2	8377.5	36.34	54.00	17.66	AV	Vertical
3	17448.75	46.19	54.00	7.81	AV	Vertical



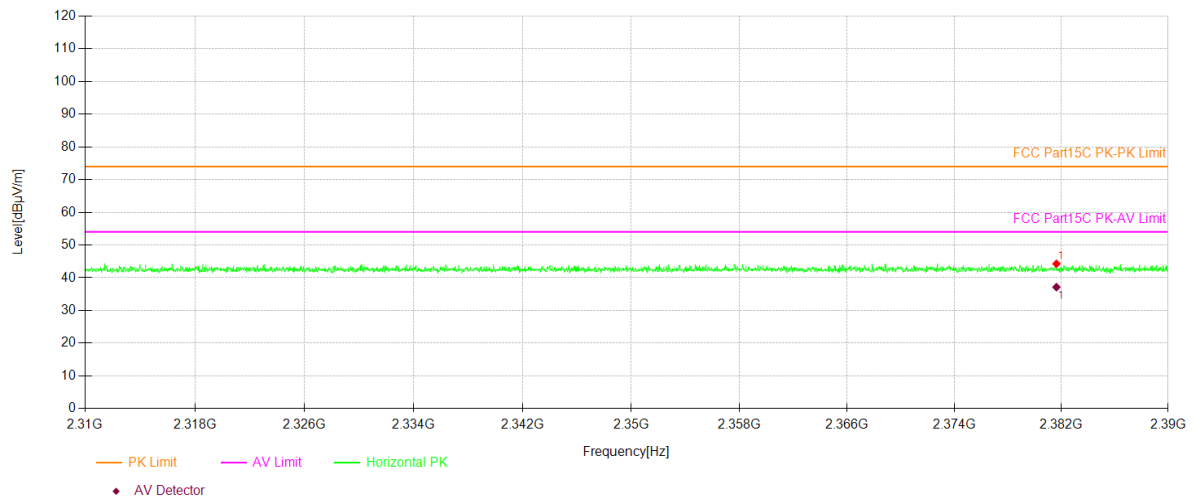
Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5469.37	47.92	-9.75	74.00	26.08	PK	Horizontal
2	8349.37	56.81	-2.08	74.00	17.19	PK	Horizontal
3	17992.5	66.55	11.77	74.00	7.45	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5469.375	32.44	54.00	21.56	AV	Horizontal
2	8349.375	36.44	54.00	17.56	AV	Horizontal
3	17992.5	47.01	54.00	6.99	AV	Horizontal

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

Test Model Spurious Emission in Restricted Band 2310-2390MHz
BLE(1M)
Channel 0: 2402MHz H



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2381.62	44.27	30.29	74.00	29.73	PK	Horizontal

AV Final Data List

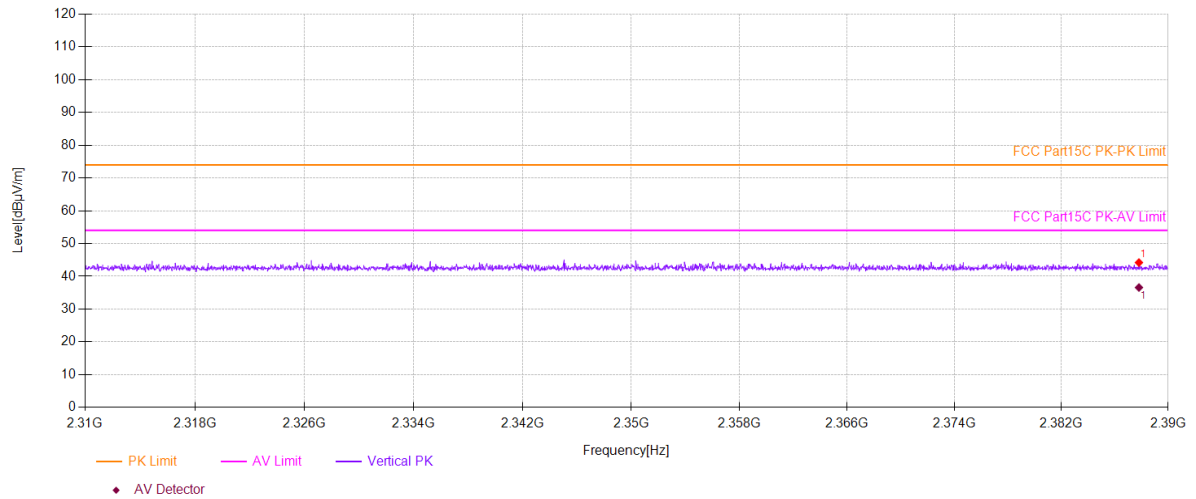
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2381.623	37.14	54.00	16.86	AV	Horizontal

Test Model

Spurious Emission in Restricted Band 2310-2390MHz
BLE(1M)

Channel 0: 2402MHz

V



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.81	44.20	30.29	74.00	29.80	PK	Vertical

AV Final Data List

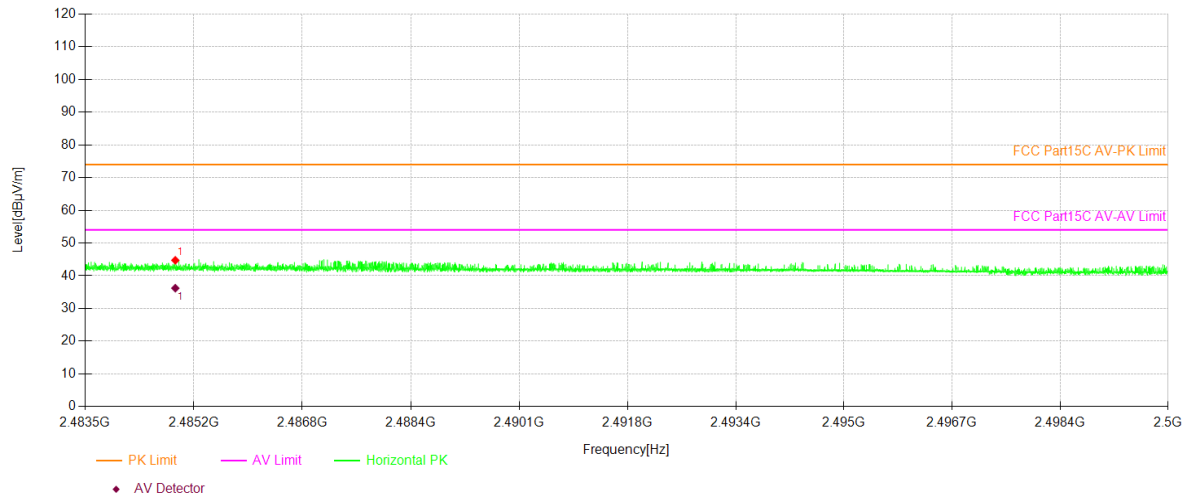
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2387.812	36.59	54.00	17.41	AV	Vertical

Test Model

Spurious Emission in Restricted Band 2483.5-2500MHz
BLE(1M)

Channel 39: 2480MHz

H



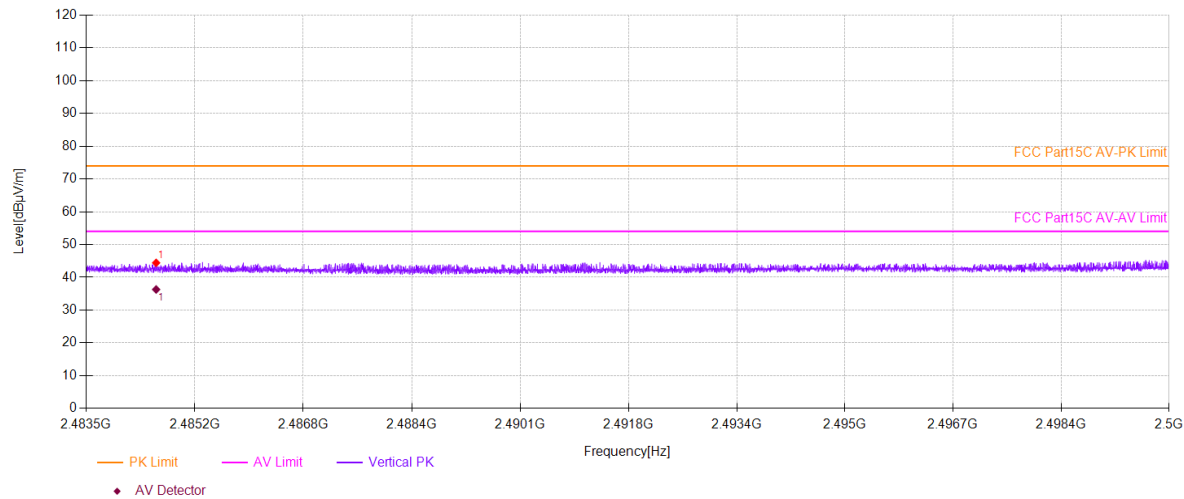
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2484.87	44.73	30.12	74.00	29.27	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2484.871	36.21	54.00	17.79	AV	Horizontal

Test Model
Spurious Emission in Restricted Band 2483.5-2500MHz
BLE(1M)
Channel 39: 2480MHz
V



Suspected Data List

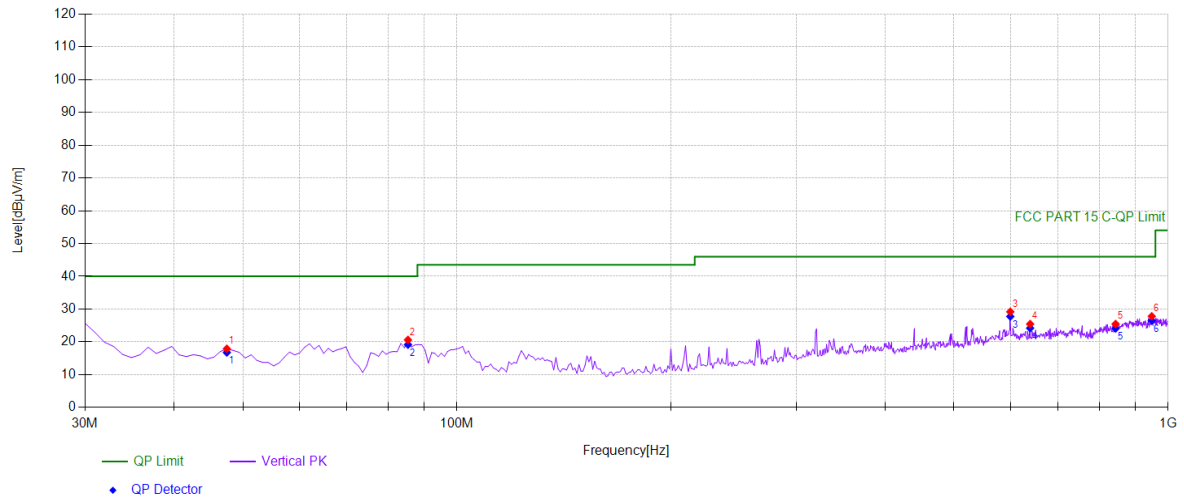
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2484.56	44.43	30.12	74.00	29.57	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2484.564	36.30	54.00	17.70	AV	Vertical

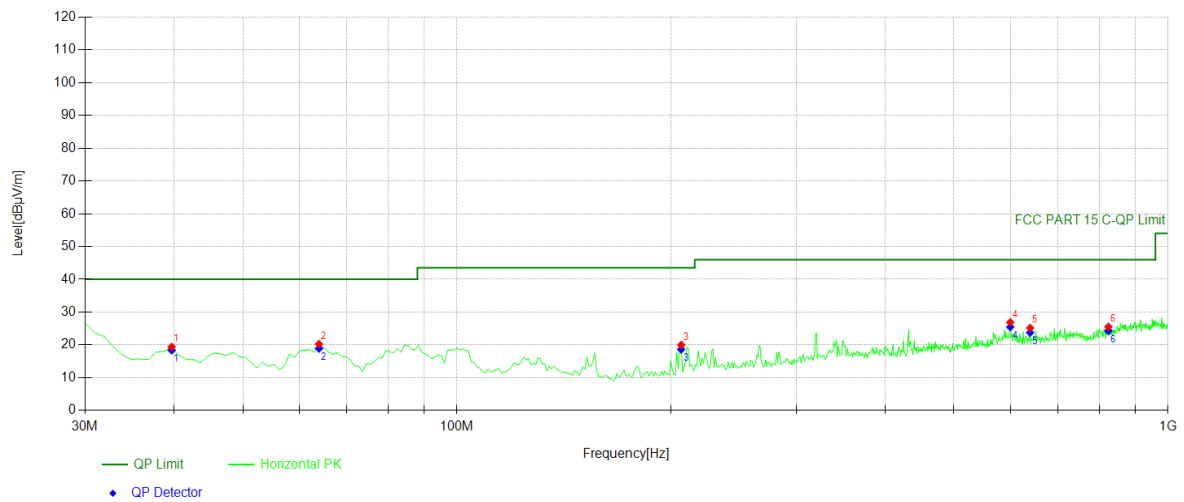
■ Spurious Emission below 1GHz (30MHz to 1GHz)

Test mode: BLE(1M) Frequency: Channel 0: 2402MHz



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	28.97	-11.07	17.90	PK	40.00	22.10	Vertical
2	85.3453	34.70	-14.09	20.61	PK	40.00	19.39	Vertical
3	599.96	29.46	-0.27	29.19	PK	46.00	16.81	Vertical
4	639.769	26.71	-1.26	25.45	PK	46.00	20.55	Vertical
5	843.673	24.27	1.18	25.45	PK	46.00	20.55	Vertical
6	948.538	25.26	2.55	27.81	PK	46.00	18.19	Vertical

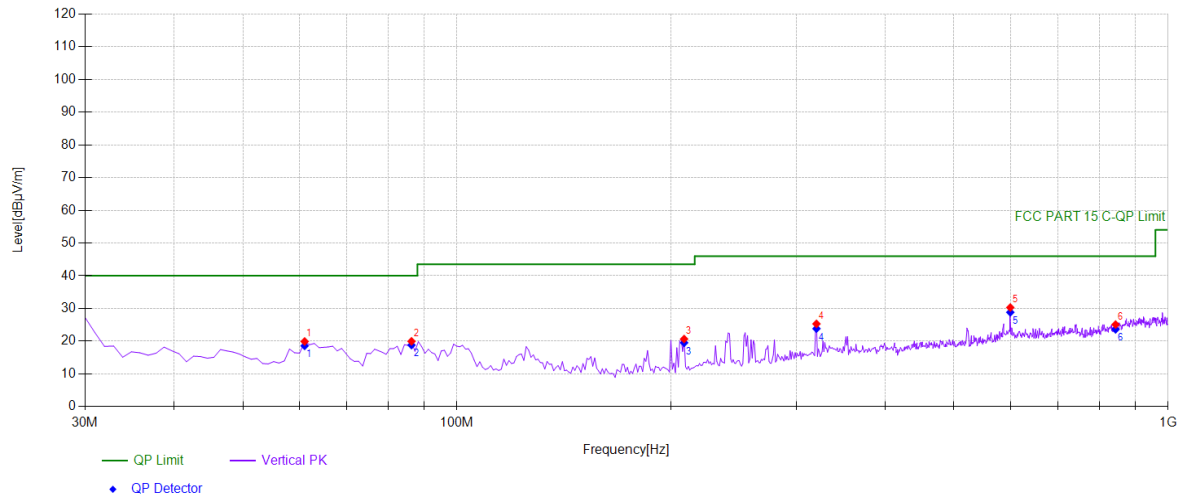
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-11.07	16.78	40.00	23.22
2	85.3453	-14.09	19.17	40.00	20.83
3	599.96	-0.27	27.75	46.00	18.25
4	639.7698	-1.26	24.19	46.00	21.81
5	843.6737	1.18	24.11	46.00	21.89
6	948.5385	2.55	26.47	46.00	19.53



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	39.7097	31.72	-12.31	19.41	PK	40.00	20.59	Horizontal
2	63.984	32.84	-12.59	20.25	PK	40.00	19.75	Horizontal
3	206.716	31.87	-11.88	19.99	PK	43.50	23.51	Horizontal
4	599.96	27.16	-0.27	26.89	PK	46.00	19.11	Horizontal
5	639.769	26.44	-1.26	25.18	PK	46.00	20.82	Horizontal
6	824.254	24.66	0.86	25.52	PK	46.00	20.48	Horizontal

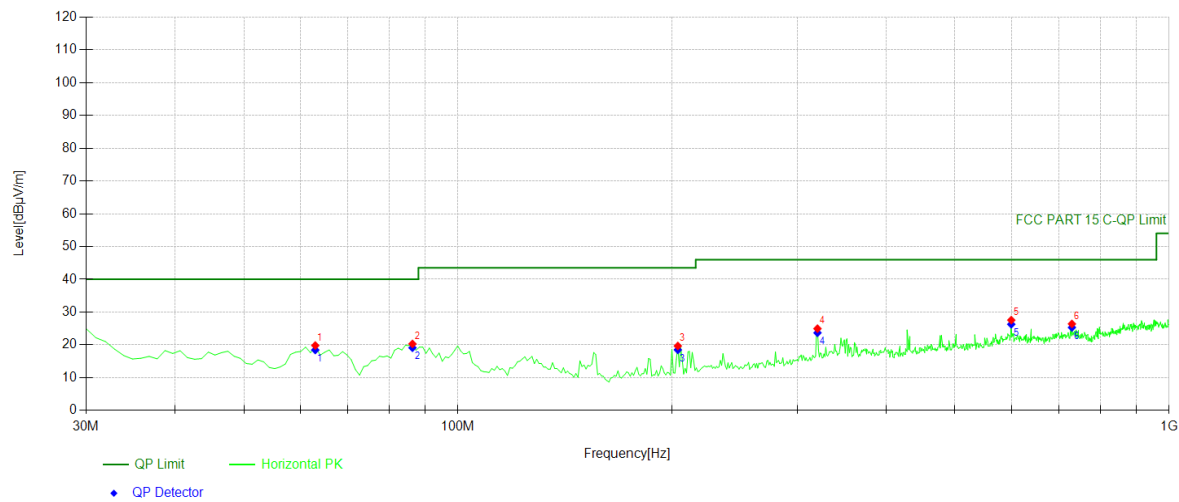
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	39.7097	-12.31	18.38	40.00	21.62
2	63.984	-12.59	18.90	40.00	21.10
3	206.7167	-11.88	18.64	43.50	24.86
4	599.96	-0.27	25.46	46.00	20.54
5	639.7698	-1.26	23.75	46.00	22.25
6	824.2543	0.86	24.27	46.00	21.73

Test mode: BLE(1M) Frequency: Channel 19: 2440MHz



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	61.0711	32.10	-12.17	19.93	PK	40.00	20.07	Vertical
2	86.3163	33.92	-13.95	19.97	PK	40.00	20.03	Vertical
3	208.658	32.42	-11.74	20.68	PK	43.50	22.82	Vertical
4	320.320	33.28	-7.97	25.31	PK	46.00	20.69	Vertical
5	599.96	30.58	-0.27	30.31	PK	46.00	15.69	Vertical
6	843.673	23.92	1.18	25.10	PK	46.00	20.90	Vertical

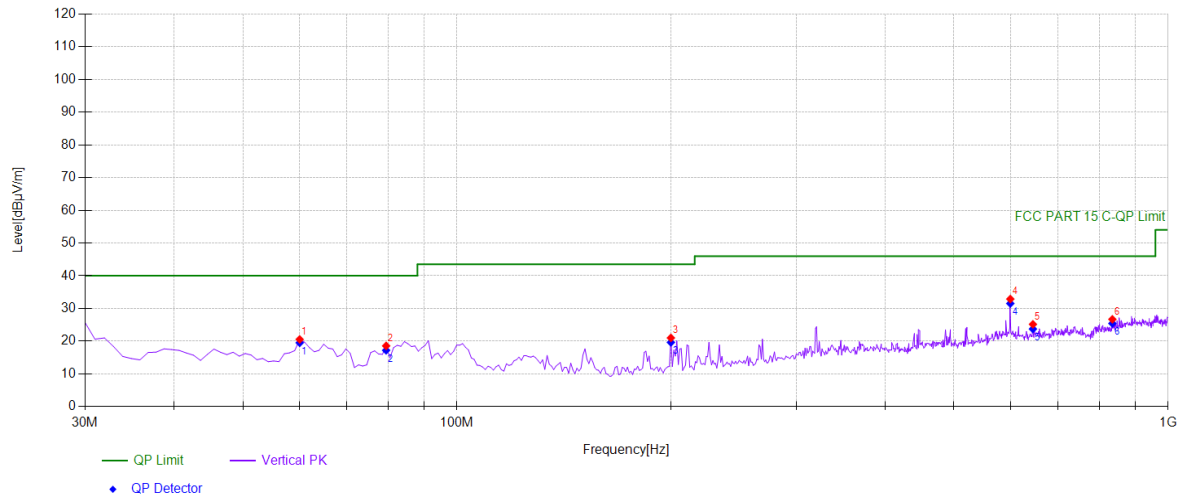
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	61.0711	-12.17	18.60	40.00	21.40
2	86.3163	-13.95	18.82	40.00	21.18
3	208.6587	-11.74	19.53	43.50	23.97
4	320.3203	-7.97	23.84	46.00	22.16
5	599.96	-0.27	28.84	46.00	17.16
6	843.6737	1.18	23.63	46.00	22.37



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	63.013	32.27	-12.45	19.82	PK	40.00	20.18	Horizontal
2	86.3163	34.26	-13.95	20.31	PK	40.00	19.69	Horizontal
3	203.803	31.77	-12.09	19.68	PK	43.50	23.82	Horizontal
4	320.320	32.93	-7.97	24.96	PK	46.00	21.04	Horizontal
5	599.96	27.83	-0.27	27.56	PK	46.00	18.44	Horizontal
6	730.070	26.15	0.26	26.41	PK	46.00	19.59	Horizontal

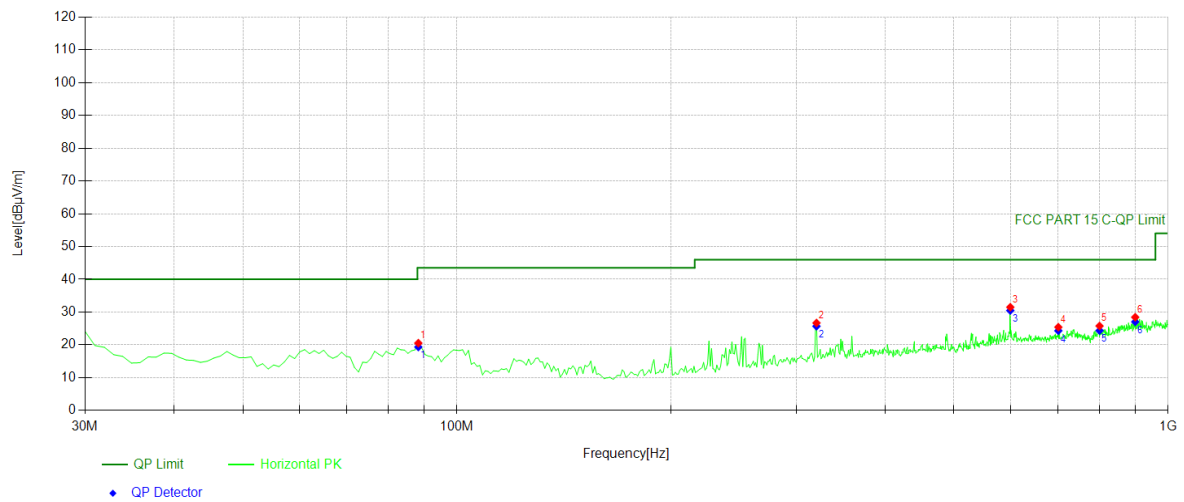
Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	63.013	-12.45	18.45	40.00	21.55
2	86.3163	-13.95	19.12	40.00	20.88
3	203.8038	-12.09	18.49	43.50	25.01
4	320.3203	-7.97	23.69	46.00	22.31
5	599.96	-0.27	26.29	46.00	19.71
6	730.0701	0.26	25.32	46.00	20.68

Test mode: BLE(1M) Frequency: Channel 39: 2480MHz



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	60.1001	32.59	-12.03	20.56	PK	40.00	19.44	Vertical
2	79.5195	33.42	-14.84	18.58	PK	40.00	21.42	Vertical
3	199.919	33.38	-12.37	21.01	PK	43.50	22.49	Vertical
4	599.96	33.16	-0.27	32.89	PK	46.00	13.11	Vertical
5	645.595	26.42	-1.25	25.17	PK	46.00	20.83	Vertical
6	834.934	25.76	0.93	26.69	PK	46.00	19.31	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	60.1001	-12.03	19.53	40.00	20.47
2	79.5195	-14.84	17.23	40.00	22.77
3	199.9199	-12.37	19.66	43.50	23.84
4	599.96	-0.27	31.54	46.00	14.46
5	645.5956	-1.25	23.74	46.00	22.26
6	834.9349	0.93	25.44	46.00	20.56



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	88.2583	34.18	-13.64	20.54	PK	43.50	22.96	Horizontal
2	320.320	34.66	-7.97	26.69	PK	46.00	19.31	Horizontal
3	599.96	31.77	-0.27	31.50	PK	46.00	14.50	Horizontal
4	700.940	25.64	-0.23	25.41	PK	46.00	20.59	Horizontal
5	800.951	25.23	0.55	25.78	PK	46.00	20.22	Horizontal
6	899.019	25.91	2.53	28.44	PK	46.00	17.56	Horizontal

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	88.2583	-13.64	19.36	43.50	24.14
2	320.3203	-7.97	25.69	46.00	20.31
3	599.96	-0.27	30.50	46.00	15.50
4	700.9409	-0.23	24.32	46.00	21.68
5	800.951	0.55	24.37	46.00	21.63
6	899.019	2.53	27.03	46.00	18.97

8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a).

8.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

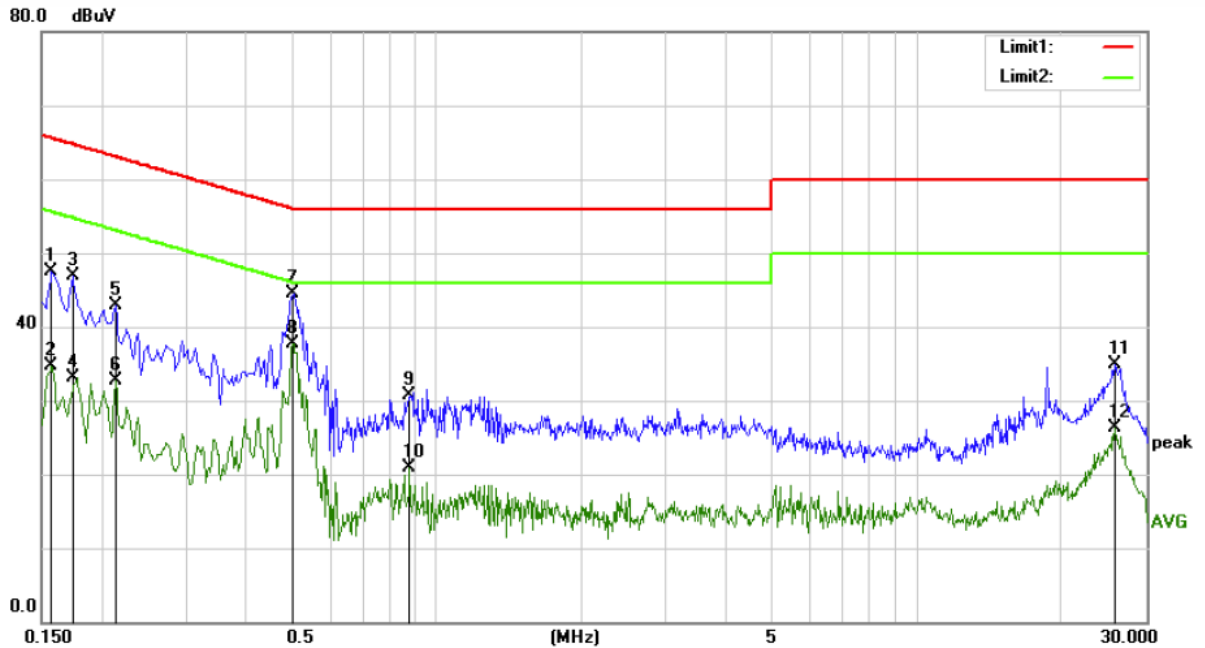
Test according to clause 7.3 conducted emission test setup

8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

PASS.



Site Conduction #1

Phase: **N**

Temperature: 25.5

Limit: (CE)FCC PART 15 class B_QP

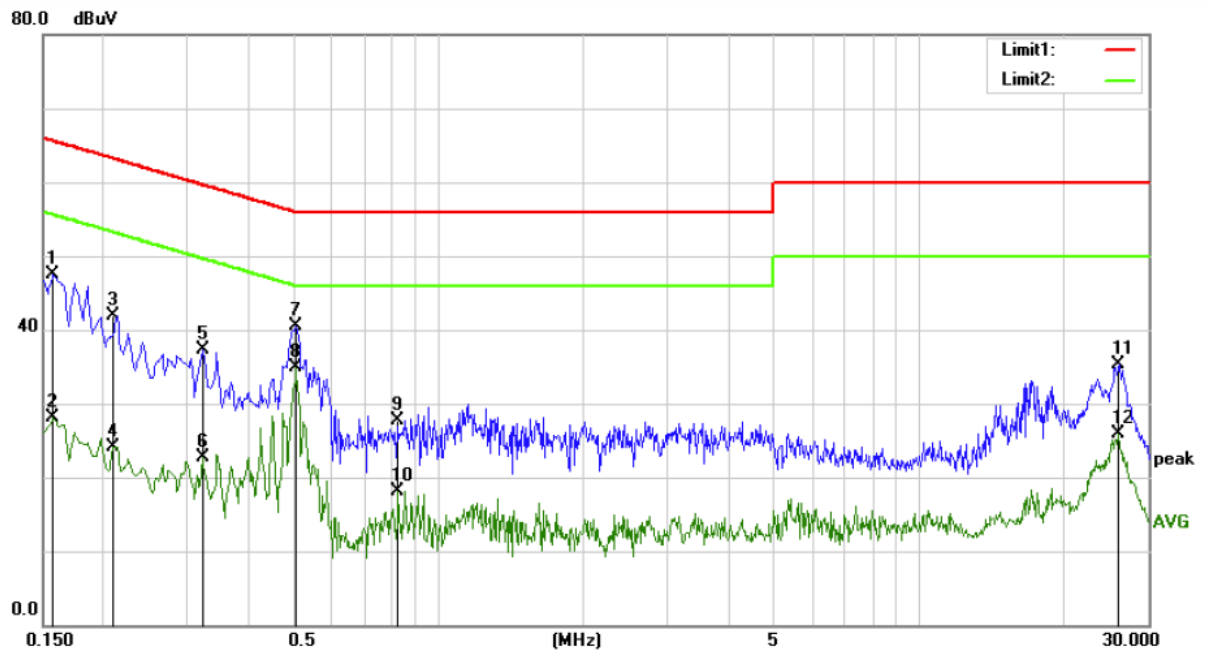
Power: AC 120V/60Hz

Humidity: 57 %

Mode: BLE mode

Note: KUANTEN

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	37.96	9.58	47.54	65.57	-18.03	QP	
2		0.1580	25.21	9.58	34.79	55.57	-20.78	AVG	
3		0.1740	37.34	9.60	46.94	64.77	-17.83	QP	
4		0.1740	23.41	9.60	33.01	54.77	-21.76	AVG	
5		0.2140	33.17	9.64	42.81	63.05	-20.24	QP	
6		0.2140	23.14	9.64	32.78	53.05	-20.27	AVG	
7		0.5020	34.64	9.79	44.43	56.00	-11.57	QP	
8	*	0.5020	27.99	9.79	37.78	46.00	-8.22	AVG	
9		0.8780	21.02	9.70	30.72	56.00	-25.28	QP	
10		0.8780	11.20	9.70	20.90	46.00	-25.10	AVG	
11		25.7460	24.62	10.20	34.82	60.00	-25.18	QP	
12		25.7460	16.18	10.20	26.38	50.00	-23.62	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 25.5

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 57 %

Mode: BLE mode

Note: KUANTEN

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1580	37.85	9.58	47.43	65.57	-18.14	QP	
2		0.1580	18.46	9.58	28.04	55.57	-27.53	AVG	
3		0.2100	32.32	9.65	41.97	63.21	-21.24	QP	
4		0.2100	14.51	9.65	24.16	53.21	-29.05	AVG	
5		0.3220	27.66	9.67	37.33	59.66	-22.33	QP	
6		0.3220	13.07	9.67	22.74	49.66	-26.92	AVG	
7		0.5060	30.72	9.78	40.50	56.00	-15.50	QP	
8	*	0.5060	25.20	9.78	34.98	46.00	-11.02	AVG	
9		0.8260	17.95	9.71	27.66	56.00	-28.34	QP	
10		0.8260	8.44	9.71	18.15	46.00	-27.85	AVG	
11		25.9220	25.18	10.20	35.38	60.00	-24.62	QP	
12		25.9220	15.78	10.20	25.98	50.00	-24.02	AVG	

8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 Result

PASS

Temperature :	23.5℃	ATM Pressure:	1011 mbar
Humidity :	58 %	Test Engineer:	Zhu Guangjun

- ☐ Antenna use a permanently attached antenna which is not replaceable.
- ☒ Not using a standard antenna jack or electrical connector for antenna replacement
- ☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

Detail of factor for radiated emission:

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

--- End of Report ---

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