



RF MEASUREMENT REPORT

FCC ID: HD5-EDA5S0

Applicant: Honeywell International Inc
Honeywell Safety and Productivity Solutions

Application Type: Certification

Product: Mobile Computer

Model No.: EDA5S-0

Brand Name: Honeywell

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (Section 15.247)

Test Date: December 16 ~ 28, 2021

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Shenzhen) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2111RSU063-U2	Rev. 01	Initial Report	12-30-2021	Valid

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1. General Information

1.1. Applicant

Honeywell International Inc
Honeywell Safety and Productivity Solutions
9680 Old Bailes Road, Fort Mill, SC 29707 United States

1.2. Manufacturer

Honeywell International Inc
Honeywell Safety and Productivity Solutions
9680 Old Bales Road, Fort Mill, SC 29707 United States

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian’edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 FCC: CN1166 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104 CNAS: L10551 ISED: CN0001
☒	Test Site – MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 FCC: CN1284 CNAS: L10551 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	Mobile Computer
Model No.	EDA5S-0
Serial No.	Conducted Sample: 21294B506A Radiated Sample: 21294B4E4A
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Specification	v5.0 dual mode
NFC Specification	Active, 13.56MHz
Antenna Information	Refer to section 1.5
Working Voltage	3.85Vdc
Accessories	
Adapter	Model No.: ADS-12B-06 05010E Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A Output Power: 5VDC 2.0A
Rechargeable Li-ion Battery	Model No.: BAT-EDA5S Capacitance: 3060mAh 11.78Wh Rated Voltage: 3.85V
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	FPC Antenna
Antenna Gain	1.78dBi

Note: For other features of this EUT, test report will be issued separately.

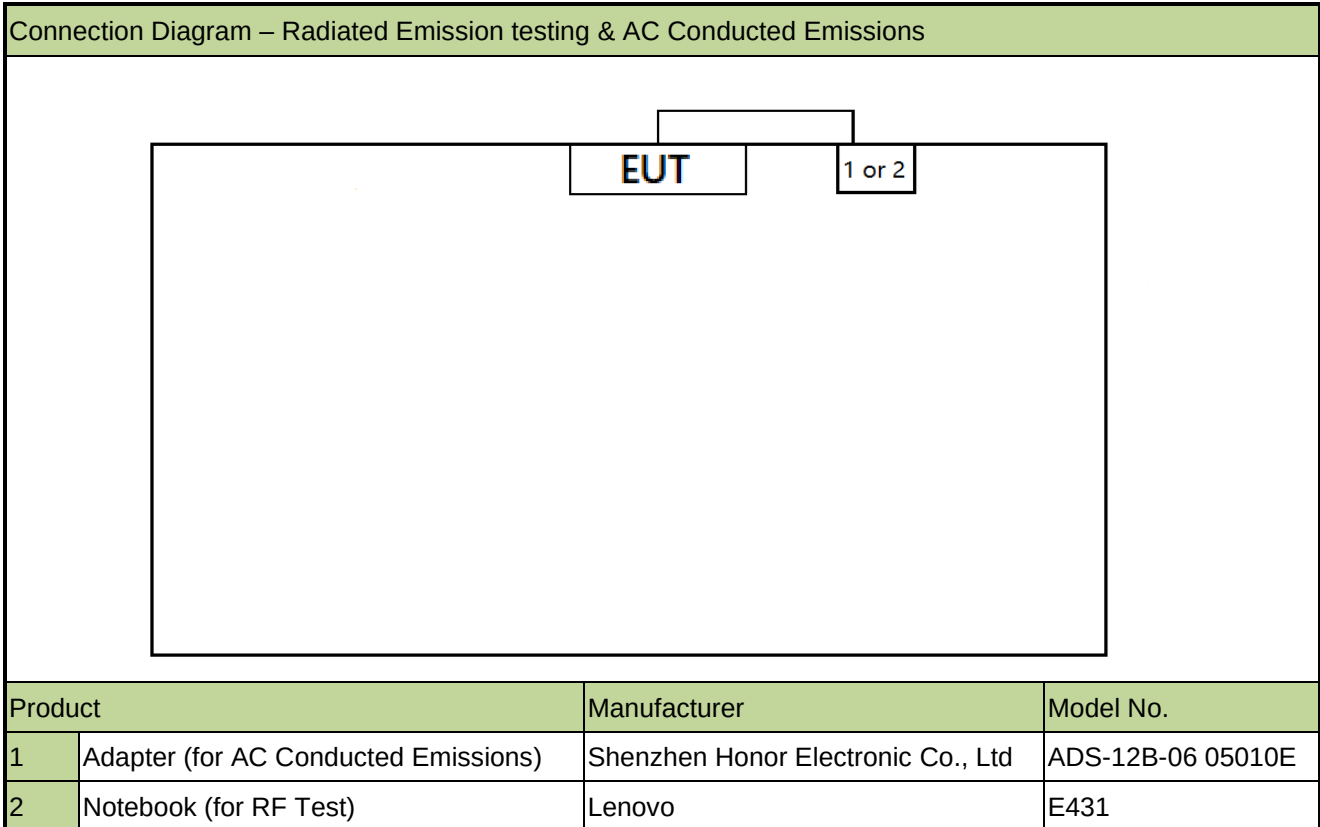
1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

2. Test Configuration

2.1. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.2. Test Software

The test utility software used during testing was “QRCT”, and the version was 3.0.268.0.

2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06292	1 year	2022/10/20	NS-AC1
Anechoic Chamber	BOOMWAVE	NS-AC1	MRTSUE06496	1 year	2022/7/24	NS-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06572	1 year	2022/3/14	NS-AC1
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06573	1 year	2022/6/29	NS-AC1
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2022/3/9	SIP-AC1
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06574	1 year	2022/7/12	NS-AC1
EMI Test Receiver	R&S	ESR3	MRTSUE06575	1 year	2022/6/27	NS-AC1
Thermohygrometer	DELI	NO.8813	MRTSUE06588	1 year	2022/6/30	NS-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06641	1 year	2022/1/14	NS-AC1
Signal Analyzer	Agilent	N9010A	MRTSUE06195	1 year	2022/3/17	NS-AC1/NS-TR2
Signal Analyzer	Keysight	N9020A	MRTSUE10065	1 year	2022/6/17	NS-AC1/NS-TR2
Shielding Room	BOOMWAVE	NS-SR2	MRTSUE06551	/	/	NS-SR2
EMI Test Receiver	R&S	ESL3	MRTSUE06576	1 year	2022/6/27	NS-SR2
Two-Line V-Network	R&S	ENV216	MRTSUE06577	1 year	2022/7/4	NS-SR2
Two-Line V-Network	R&S	ENV216	MRTSUE06578	1 year	2022/7/4	NS-SR2
ISN	R&S	ENY81	MRTSUE06579	1 year	2022/7/4	NS-SR2
ISN	R&S	ENY81-CA6	MRTSUE06580	1 year	2022/6/15	NS-SR2
Thermohygrometer	DELI	NO.8813	MRTSUE06587	1 year	2022/6/30	NS-SR2
USB Power Sensor	Keysight	U2021XA	MRTSUE06581	1 year	2022/8/15	NS-TR2
Thermohygrometer	DELI	NO.8813	MRTSUE06783	1 year	2022/5/9	NS-TR2
Temperature Chamber	OUKE	OK-TH-100C	MRTSUE06899	1 year	2022/11/1	NS-TR2

Software	Version	Function
EMI Software	V3	EMI Test Software

Note: Test site (NS-AC1 & NS-SR2 & NS-TR2) belong to MRT Shenzhen Laboratory, Test site (SIP-AC1) belong to MRT Suzhou Laboratory.

5. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.15dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Remark:

1. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2. All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

6.2. 6dB Bandwidth

6.2.1. Test Limit

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

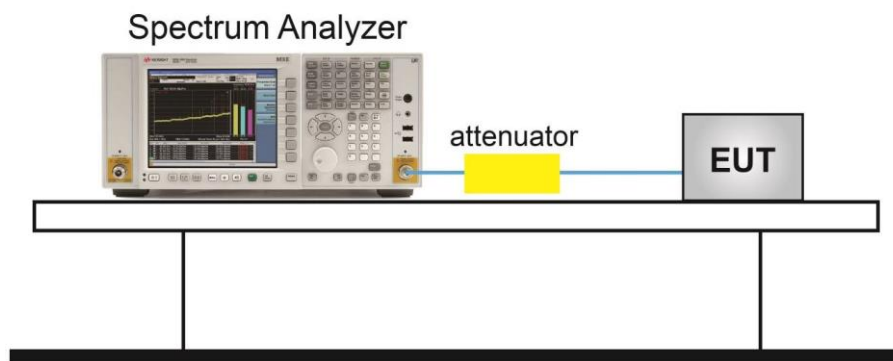
6.2.2. Test Procedure used

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Output Power

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(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 FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure Used

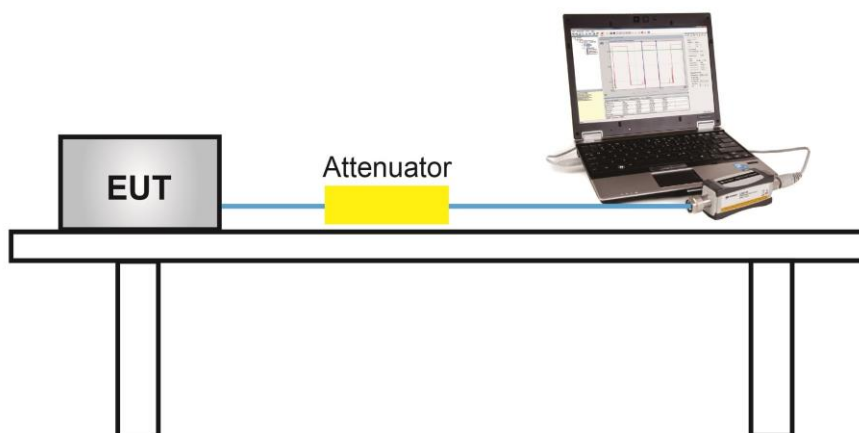
ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Power Spectral Density

6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

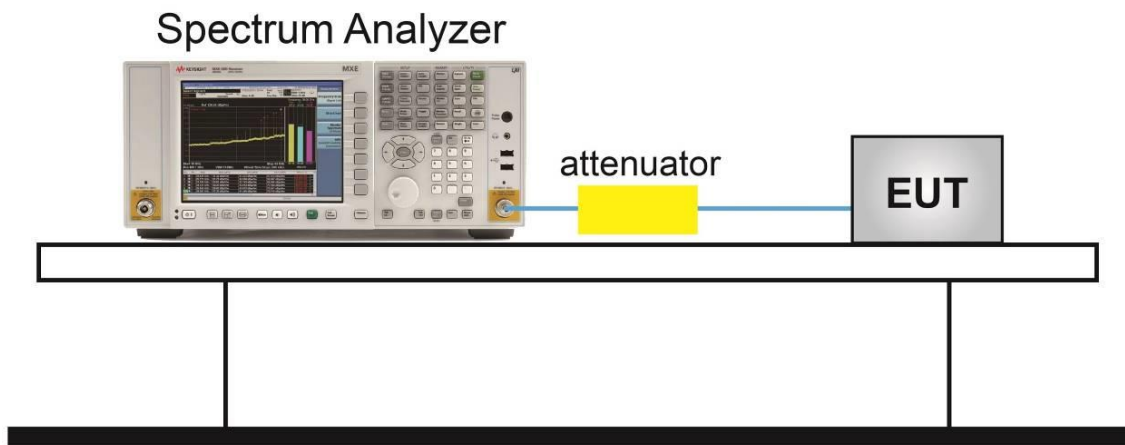
6.4.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.10.5

6.4.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
8. Sweep time = auto couple.
9. Don't use sweep triggering. Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

6.5. Conducted Band Edge and Out-of-Band Emissions

6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Setting

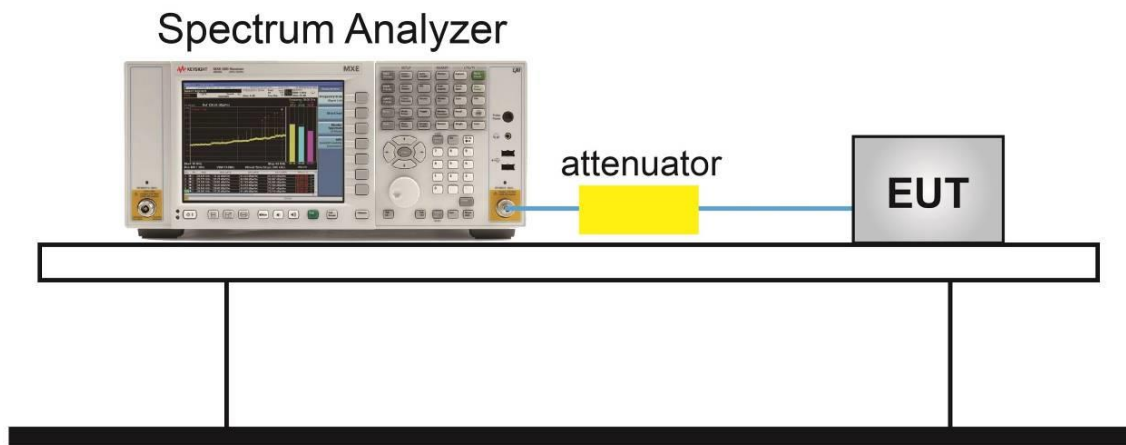
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.4.

6.6. Radiated Spurious Emission

6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.6.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

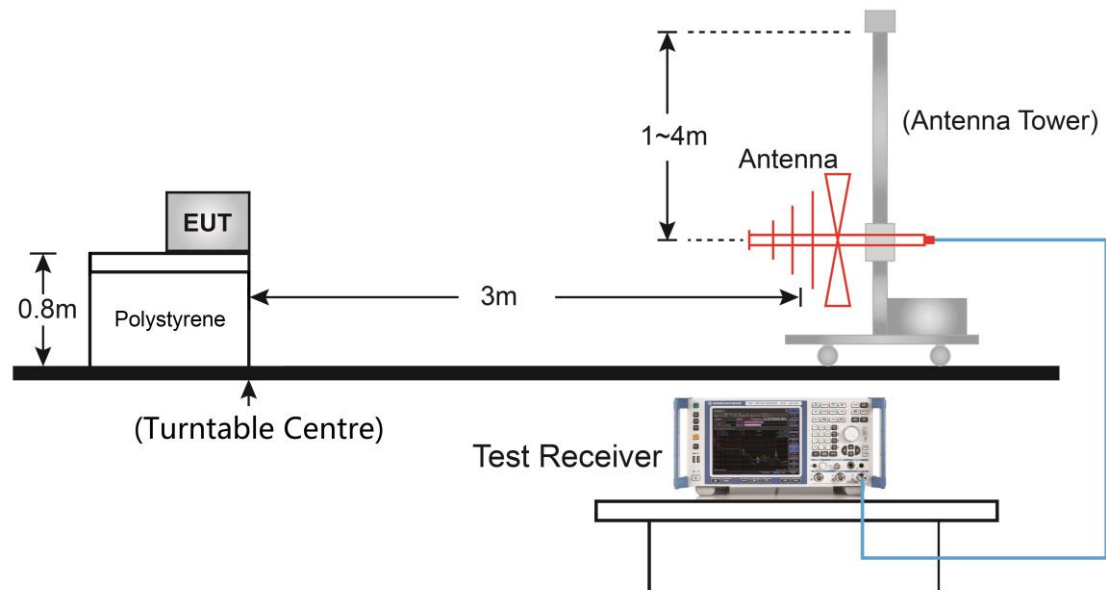
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

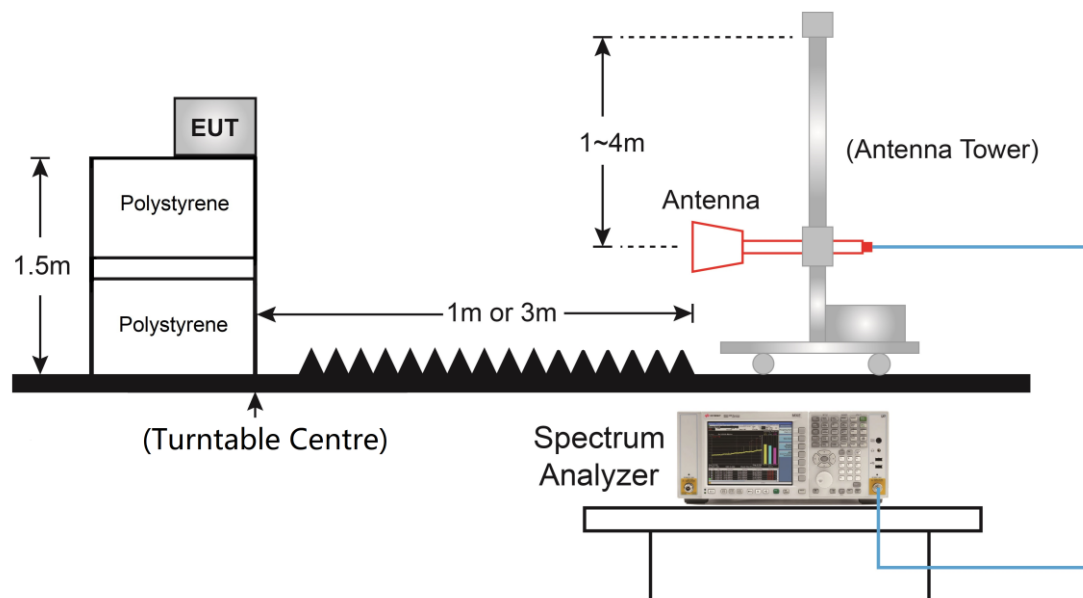
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.6.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.5.

6.7. Radiated Restricted Band Edge

6.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 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	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	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	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.7.2. Test Procedure Used

ANSI C63.10-2013 Section 6.3

ANSI C63.10-2013 Section 6.6

ANSI C63.10-2013 Section 11.13

6.7.3. Test Setting

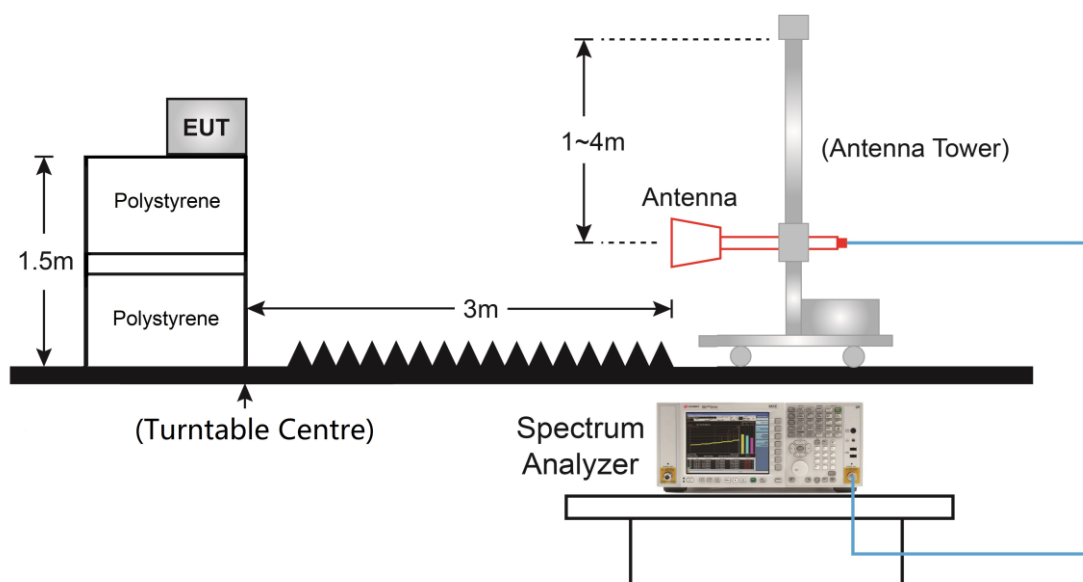
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

Refer to Appendix A.6.

6.8. AC Conducted Emissions

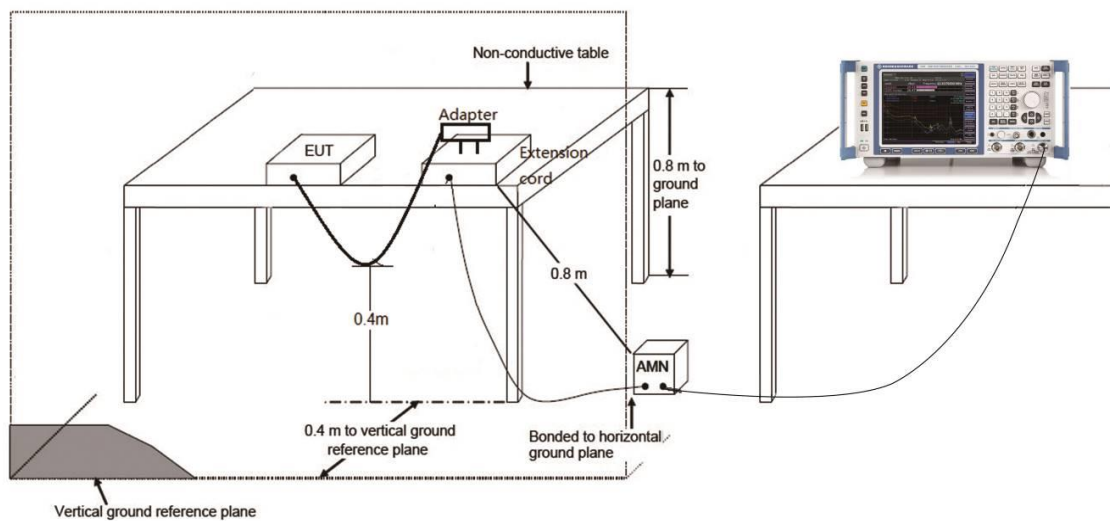
6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.8.2. Test Setup



6.8.3. Test Result

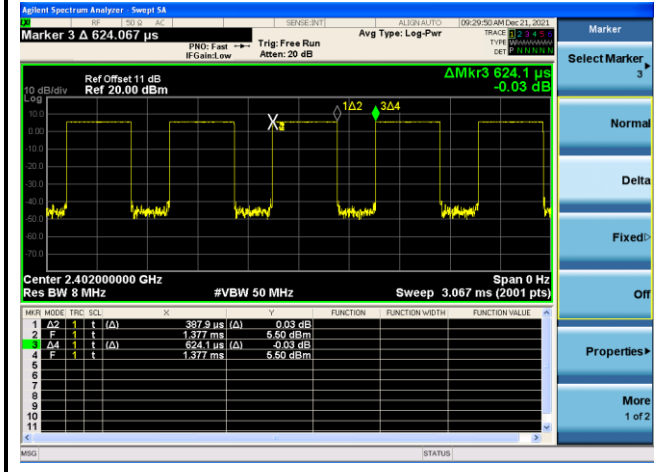
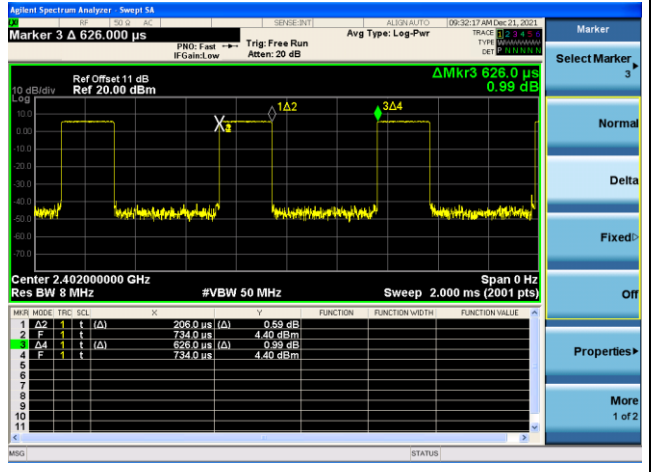
Refer to Appendix A.7.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/21		

Test Mode	Duty Cycle
BLE-1Mbps	62.15%
BLE-2Mbps	32.91%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 387.9 μ s)	BLE-2Mbps (T = 206.0 μ s)

A.2 6dB Bandwidth Test Result

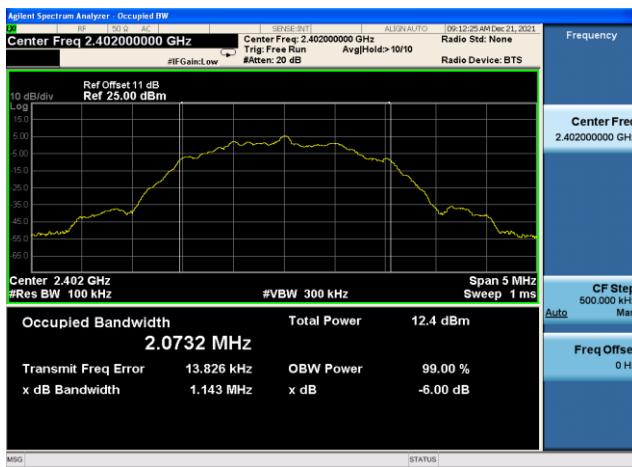
Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/21		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.671	≥ 0.5
BLE	1Mbps	19	2440	0.672	≥ 0.5
BLE	1Mbps	39	2480	0.663	≥ 0.5
BLE	2Mbps	00	2402	1.143	≥ 0.5
BLE	2Mbps	19	2440	1.153	≥ 0.5
BLE	2Mbps	39	2480	1.142	≥ 0.5

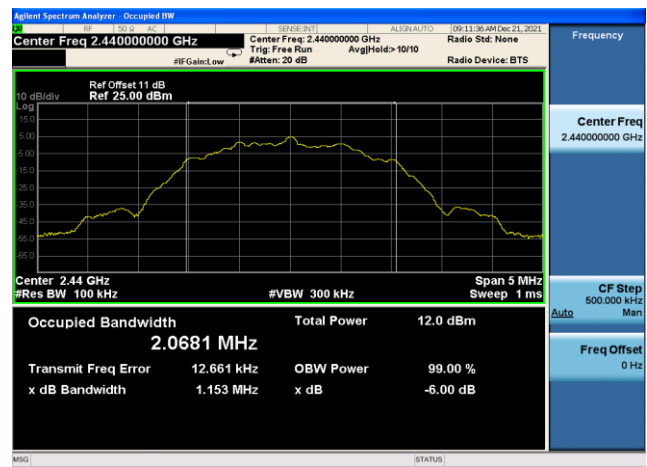


BLE-2Mbps 6dB Bandwidth

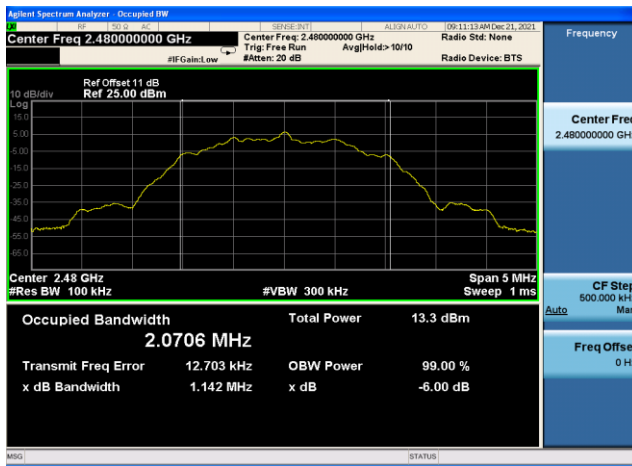
Channel 00 (2402MHz)



Channel 19 (2440MHz)



Channel 39 (2480MHz)



A.3 Output Power Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/16		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	5.77	≤ 30.00	Pass
BLE	1Mbps	19	2440	5.31	≤ 30.00	Pass
BLE	1Mbps	39	2480	6.57	≤ 30.00	Pass
BLE	2Mbps	00	2402	6.01	≤ 30.00	Pass
BLE	2Mbps	19	2440	5.63	≤ 30.00	Pass
BLE	2Mbps	39	2480	6.84	≤ 30.00	Pass

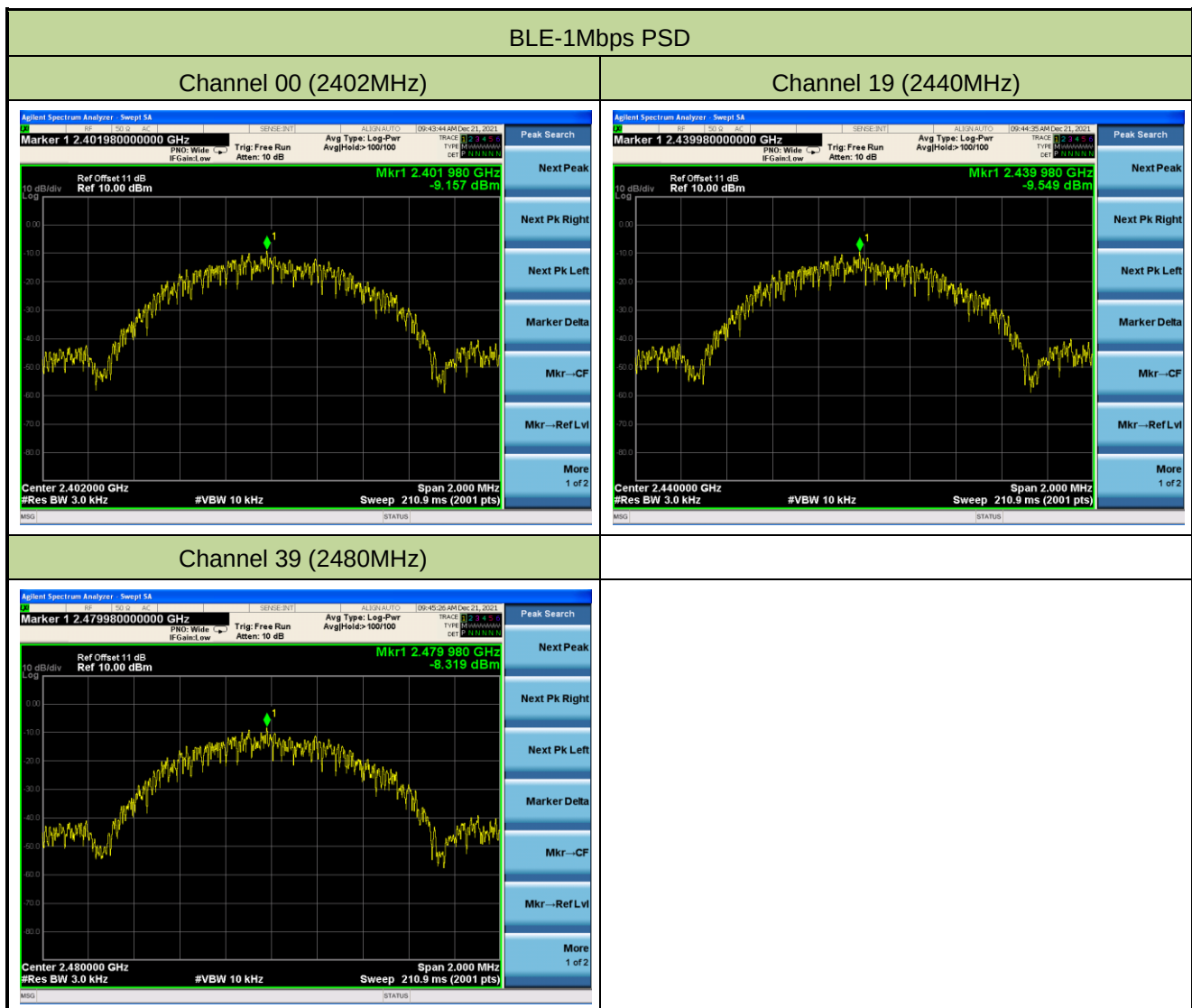
Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	5.53	≤ 30.00	Pass
BLE	1Mbps	19	2440	5.14	≤ 30.00	Pass
BLE	1Mbps	39	2480	6.38	≤ 30.00	Pass
BLE	2Mbps	00	2402	5.50	≤ 30.00	Pass
BLE	2Mbps	19	2440	5.13	≤ 30.00	Pass
BLE	2Mbps	39	2480	6.36	≤ 30.00	Pass

A.4 Power Spectral Density Test Result

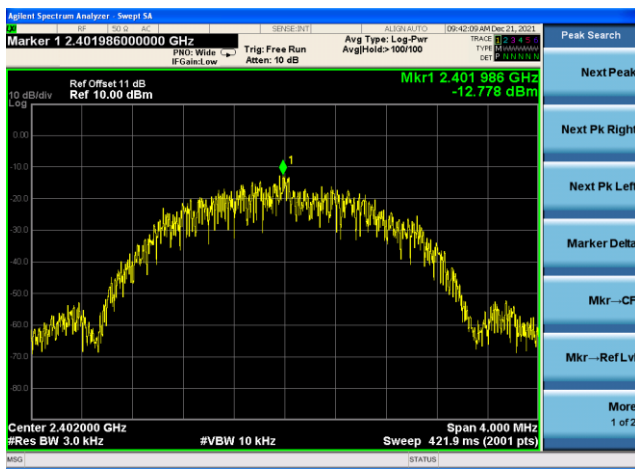
Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/21		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-9.16	≤ 8.00	Pass
BLE	1Mbps	19	2440	-9.55	≤ 8.00	Pass
BLE	1Mbps	39	2480	-8.32	≤ 8.00	Pass
BLE	2Mbps	00	2402	-12.78	≤ 8.00	Pass
BLE	2Mbps	19	2440	-13.13	≤ 8.00	Pass
BLE	2Mbps	39	2480	-11.92	≤ 8.00	Pass

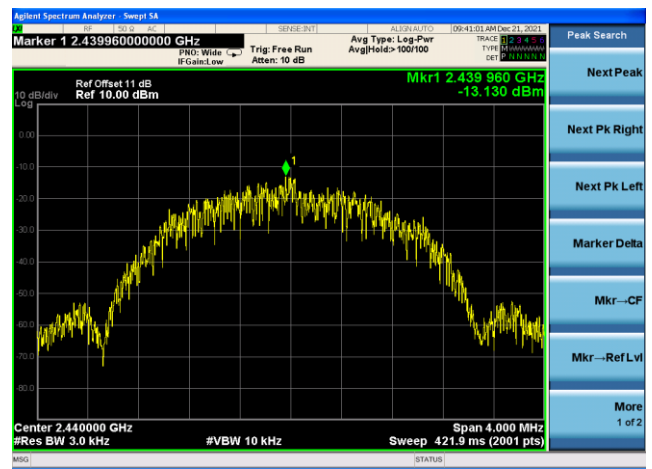


BLE-2Mbps PSD

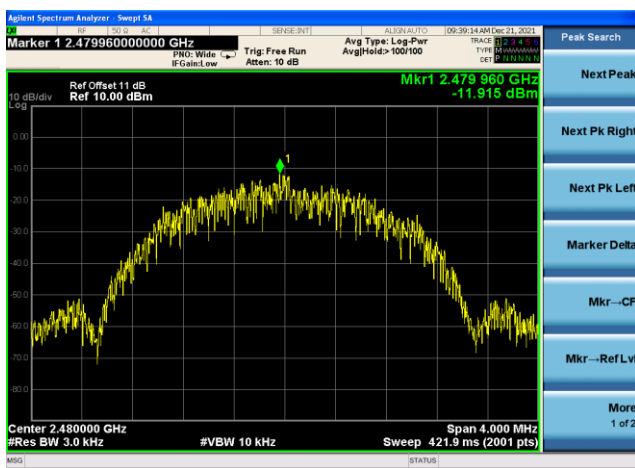
Channel 00 (2402MHz)



Channel 19 (2440MHz)



Channel 39 (2480MHz)



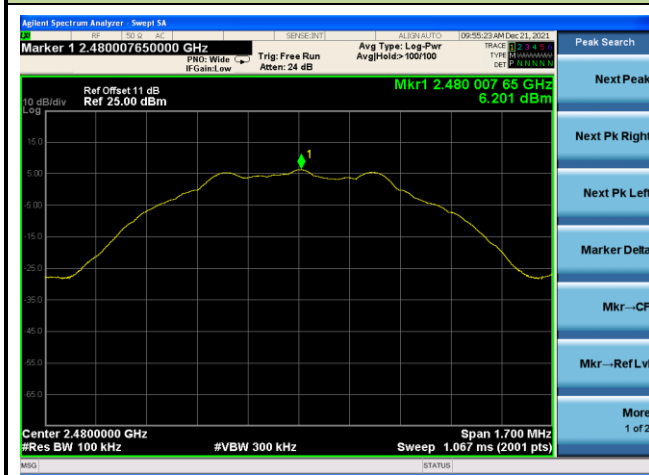
A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/21		

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

BLE- Out-of-Band Emissions

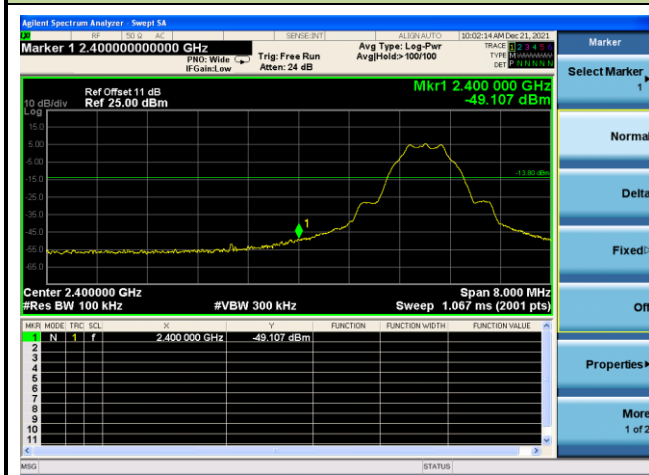
100kHz PSD Reference Level



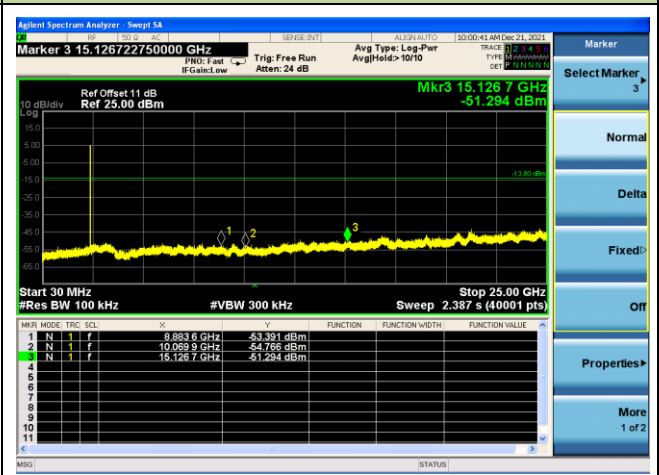
BLE-1Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

Low Band Edge

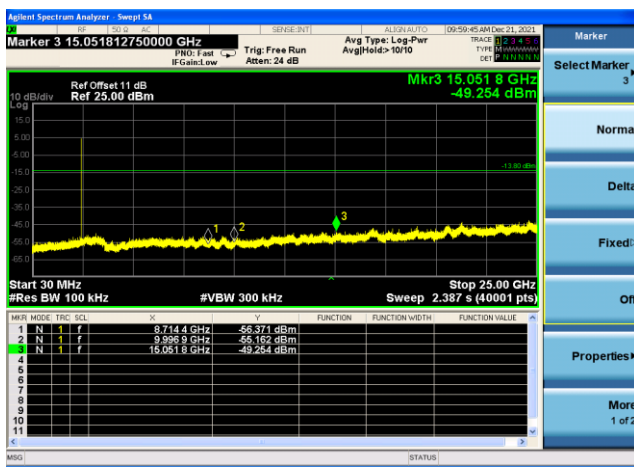


Spurious Emission 30MHz ~ 25GHz



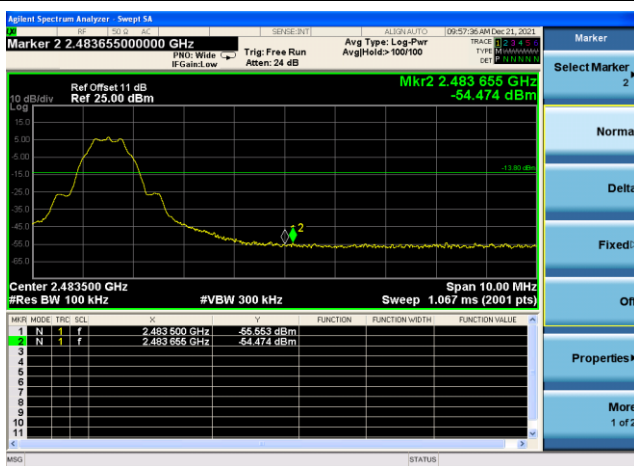
Channel 19 (2440MHz)

Spurious Emission 30MHz ~ 25GHz

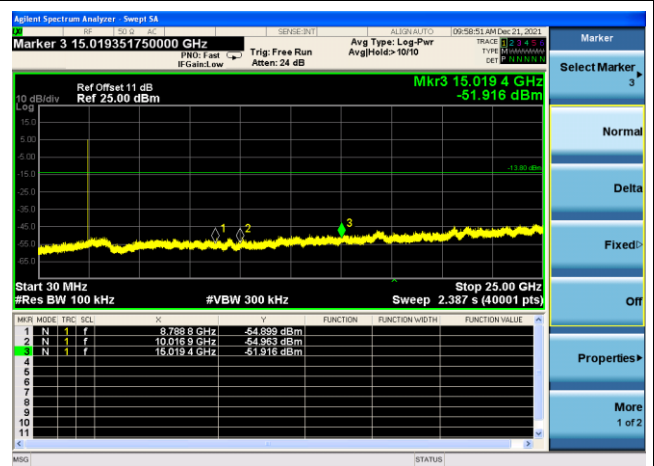


Channel 39 (2480MHz)

High Band Edge



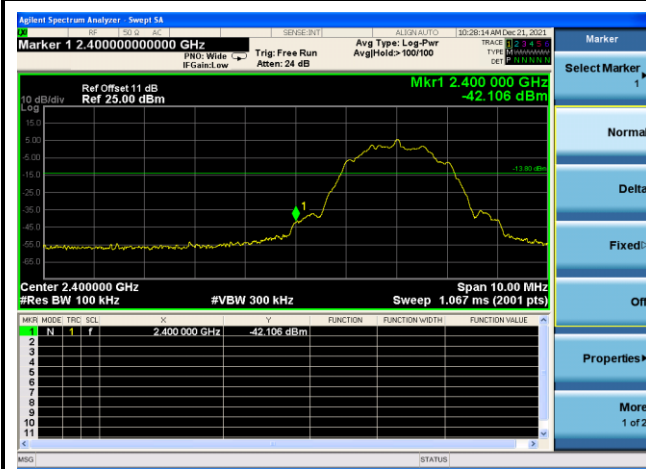
Spurious Emission 30MHz ~ 25GHz



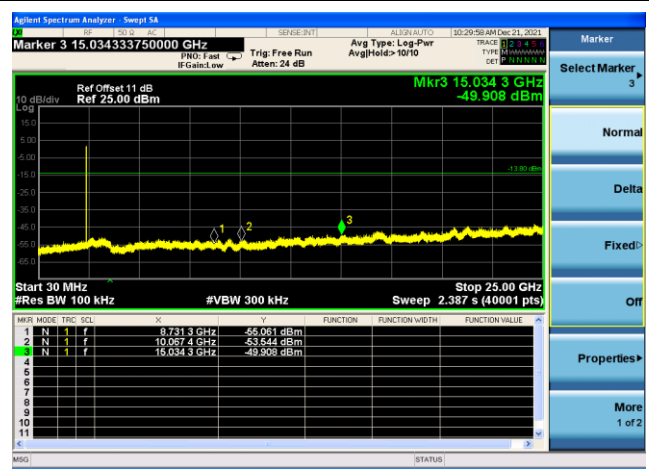
BLE-2Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

Low Band Edge

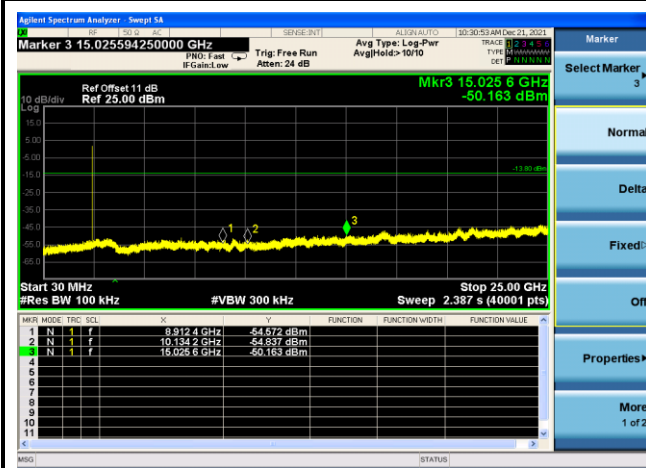


Spurious Emission 30MHz ~ 25GHz



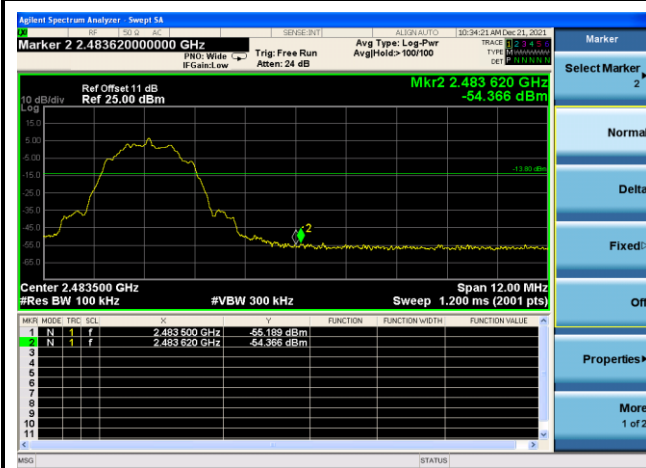
Channel 19 (2440MHz)

Spurious Emission 30MHz ~ 25GHz

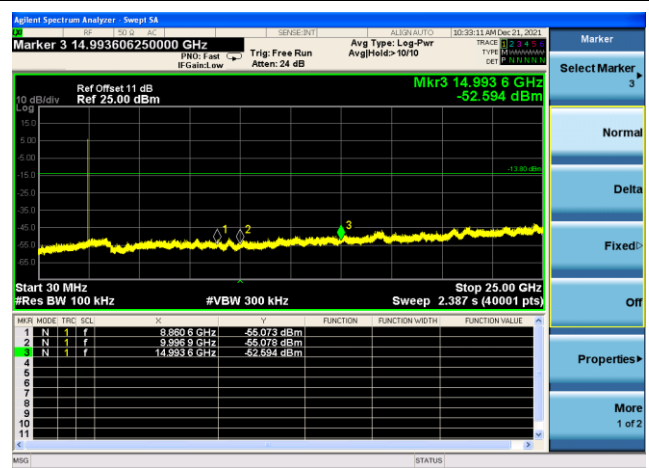


Channel 39 (2480MHz)

High Band Edge



Spurious Emission 30MHz ~ 25GHz



A.6 Radiated Spurious Emission Test Result

Test Site	NS-AC1	Test Engineer	Dillon Diao
Test Date	2021/12/21	Test Mode:	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	7434.5	32.9	9.4	42.3	74.0	-31.7	Peak	Horizontal
	8318.5	34.0	9.8	43.8	74.0	-30.2	Peak	Horizontal
	11472.0	32.8	15.6	48.4	74.0	-25.6	Peak	Horizontal
	7426.0	32.8	9.3	42.1	74.0	-31.9	Peak	Vertical
	8114.5	35.0	9.1	44.1	74.0	-29.9	Peak	Vertical
	11115.0	33.0	15.6	48.6	74.0	-25.4	Peak	Vertical
19	7511.0	32.0	9.4	41.4	74.0	-32.6	Peak	Horizontal
	8191.0	34.8	8.9	43.7	74.0	-30.3	Peak	Horizontal
	10817.5	32.9	14.9	47.8	74.0	-26.2	Peak	Horizontal
	7519.5	33.0	9.3	42.3	74.0	-31.7	Peak	Vertical
	8318.5	33.9	9.8	43.7	74.0	-30.3	Peak	Vertical
	11115.0	32.1	15.6	47.7	74.0	-26.3	Peak	Vertical
39	7723.5	34.0	8.6	42.6	74.0	-31.4	Peak	Horizontal
	8165.5	34.9	9.2	44.1	74.0	-29.9	Peak	Horizontal
	11140.5	32.5	15.4	47.9	74.0	-26.1	Peak	Horizontal
	7426.0	33.1	9.3	42.4	74.0	-31.6	Peak	Vertical
	8429.0	33.0	10.1	43.1	74.0	-30.9	Peak	Vertical
	10834.5	33.2	14.9	48.1	74.0	-25.9	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	NS-AC1	Test Engineer	Dillon Diao
Test Date	2021/12/21	Test Mode:	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

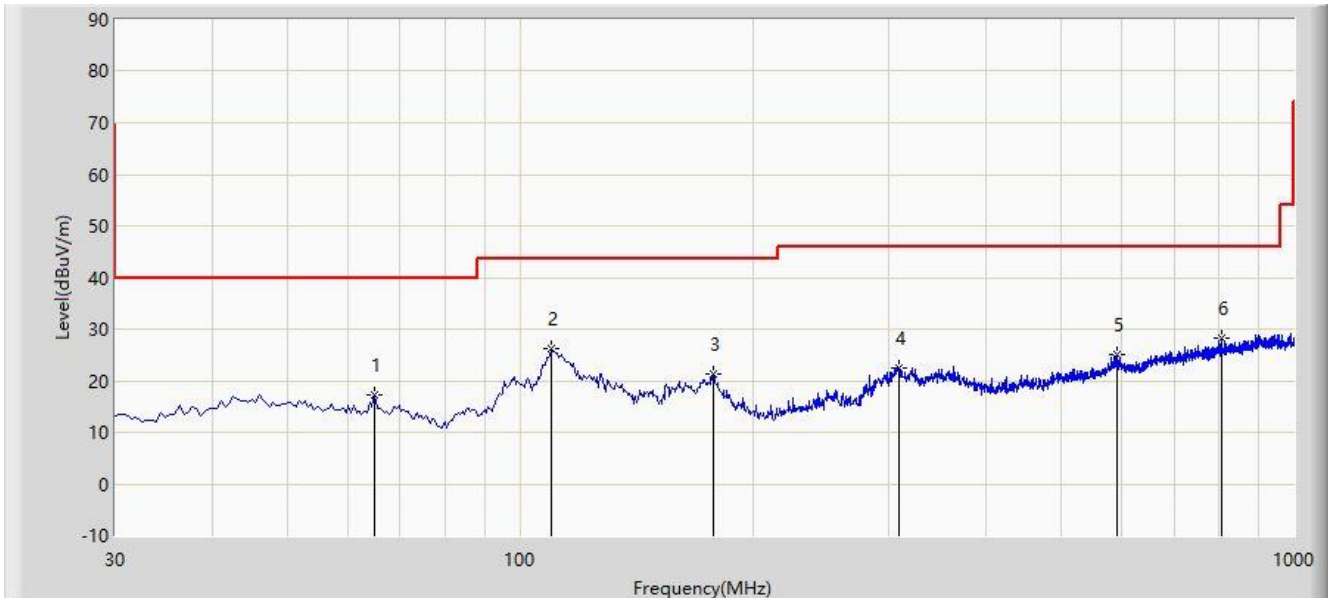
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	7519.5	31.3	9.3	40.6	74.0	-33.4	Peak	Horizontal
	8225.0	34.0	9.5	43.5	74.0	-30.5	Peak	Horizontal
	11183.0	31.9	15.5	47.4	74.0	-26.6	Peak	Horizontal
	7519.5	32.8	9.3	42.1	74.0	-31.9	Peak	Vertical
	8242.0	33.5	9.5	43.0	74.0	-31.0	Peak	Vertical
	10826.0	32.2	15.2	47.4	74.0	-26.6	Peak	Vertical
19	7706.5	34.8	8.5	43.3	74.0	-30.7	Peak	Horizontal
	8216.5	34.4	9.3	43.7	74.0	-30.3	Peak	Horizontal
	11225.5	31.1	15.0	46.1	74.0	-27.9	Peak	Horizontal
	7723.5	33.8	8.6	42.4	74.0	-31.6	Peak	Vertical
	8420.5	33.4	10.2	43.6	74.0	-30.4	Peak	Vertical
	10970.5	31.5	14.5	46.0	74.0	-28.0	Peak	Vertical
39	7706.5	34.9	8.5	43.4	74.0	-30.6	Peak	Horizontal
	8148.5	35.5	9.4	44.9	74.0	-29.1	Peak	Horizontal
	10962.0	33.4	14.6	48.0	74.0	-26.0	Peak	Horizontal
	7434.5	32.5	9.4	41.9	74.0	-32.1	Peak	Vertical
	8412.0	33.3	10.2	43.5	74.0	-30.5	Peak	Vertical
	11081.0	32.6	15.2	47.8	74.0	-26.2	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission below 1GHz:

Site: NS-AC1	Test Data: 2021/12/21
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_VULB9162	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE-1M at channel 2440MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			64.920	17.343	2.655	-22.657	40.000	14.688	PK
2		*	110.025	26.277	11.549	-17.223	43.500	14.728	PK
3			177.440	21.429	8.500	-22.071	43.500	12.929	PK
4			308.390	22.583	5.497	-23.417	46.000	17.085	PK
5			591.630	25.015	1.556	-20.985	46.000	23.459	PK
6			806.485	28.314	2.052	-17.686	46.000	26.262	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

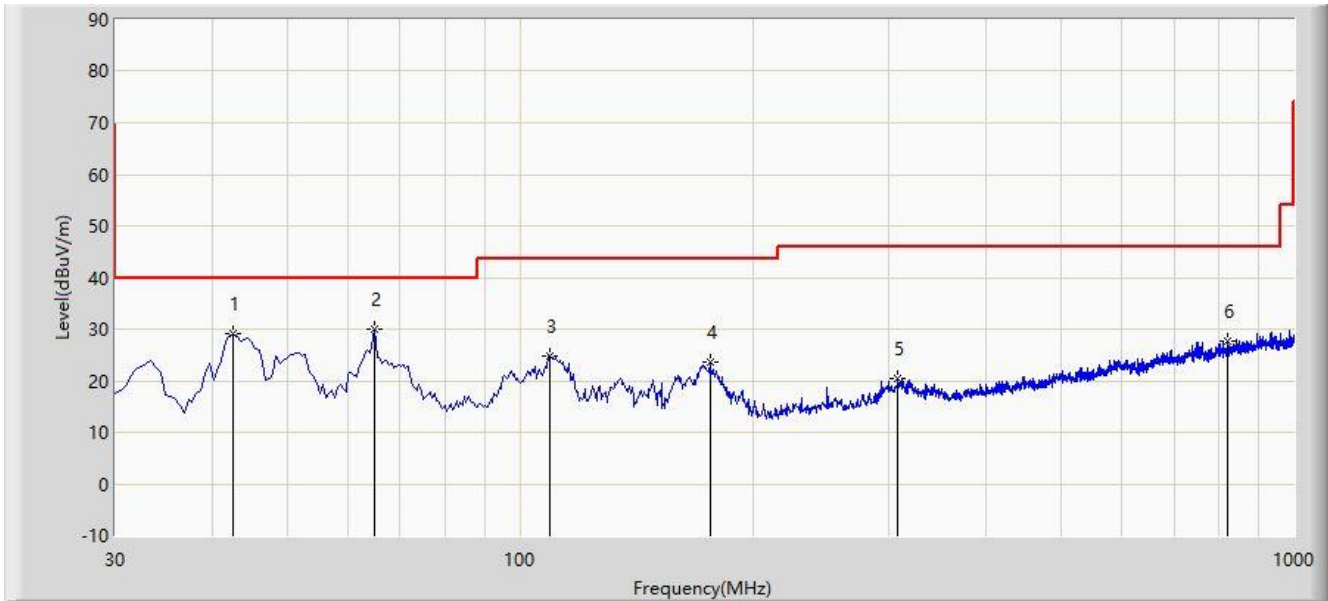
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: NS-AC1	Test Data: 2021/12/21
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_VULB9162	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE-1M at channel 2440MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			42.610	29.115	12.205	-10.885	40.000	16.910	PK
2		*	64.920	30.054	15.366	-9.946	40.000	14.688	PK
3			109.540	24.890	10.094	-18.610	43.500	14.796	PK
4			175.985	23.733	10.903	-19.767	43.500	12.829	PK
5			307.420	20.463	3.373	-25.537	46.000	17.090	PK
6			821.035	27.759	1.268	-18.241	46.000	26.491	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

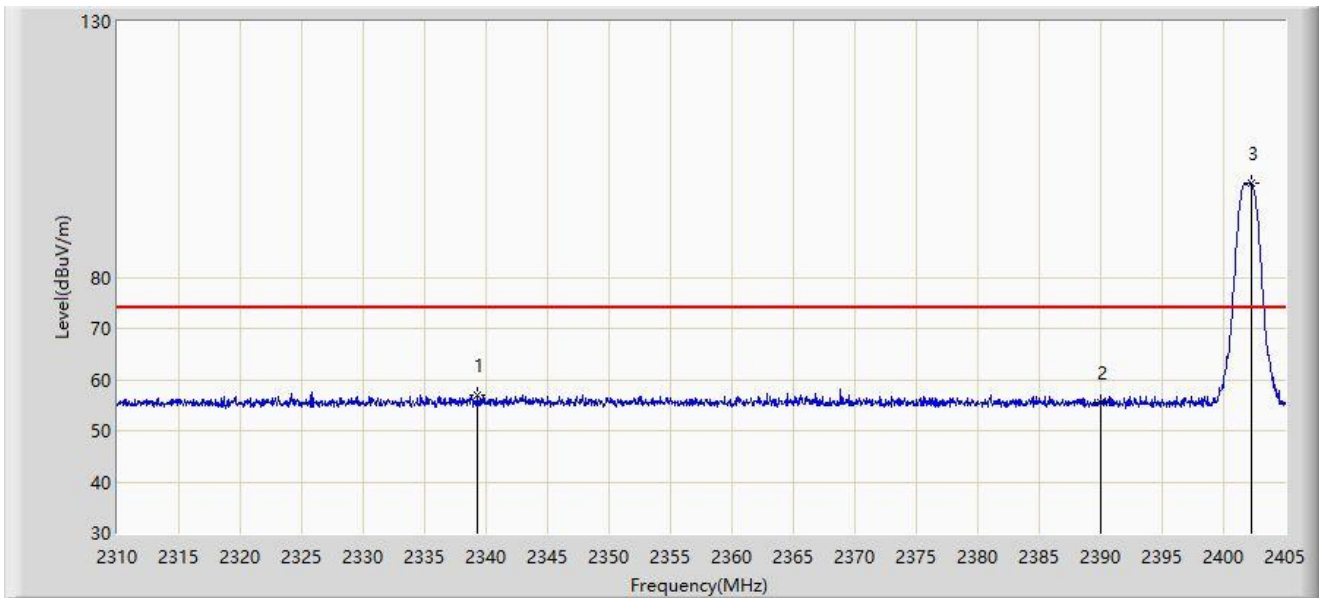
Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

Site: NS-AC1	Test Data: 2021/12/23 - 15:14
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

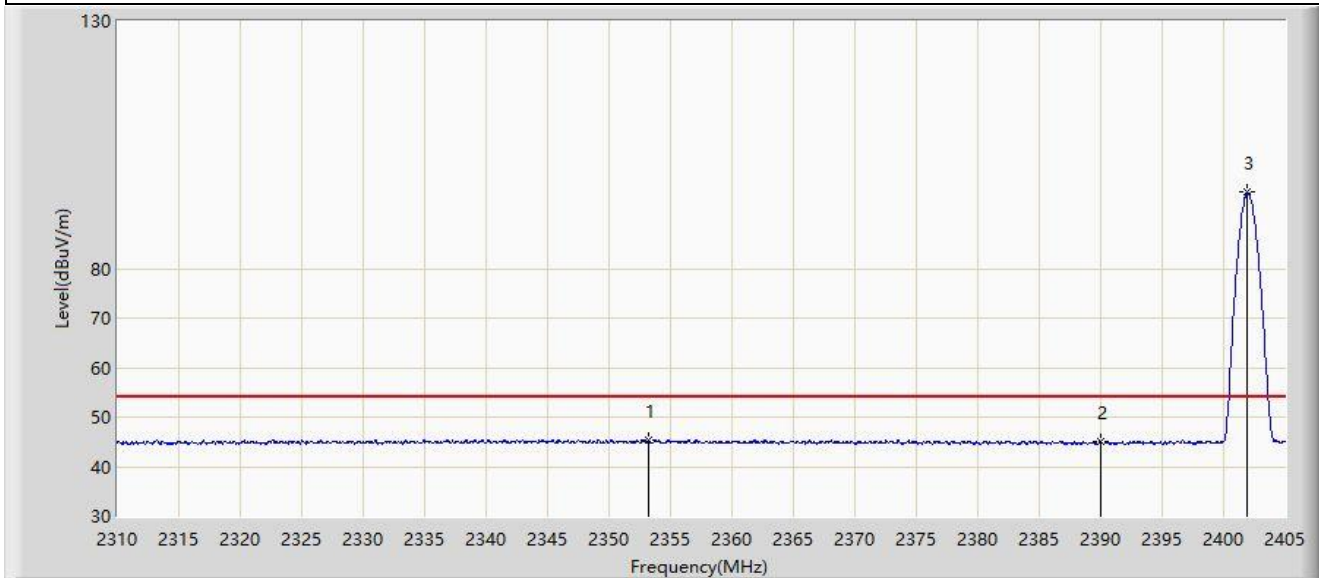


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2339.308	56.905	25.729	-17.095	74.000	31.176	PK
2			2390.000	55.365	24.462	-18.635	74.000	30.903	PK
3		*	2402.292	98.283	67.346	N/A	N/A	30.936	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:17
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

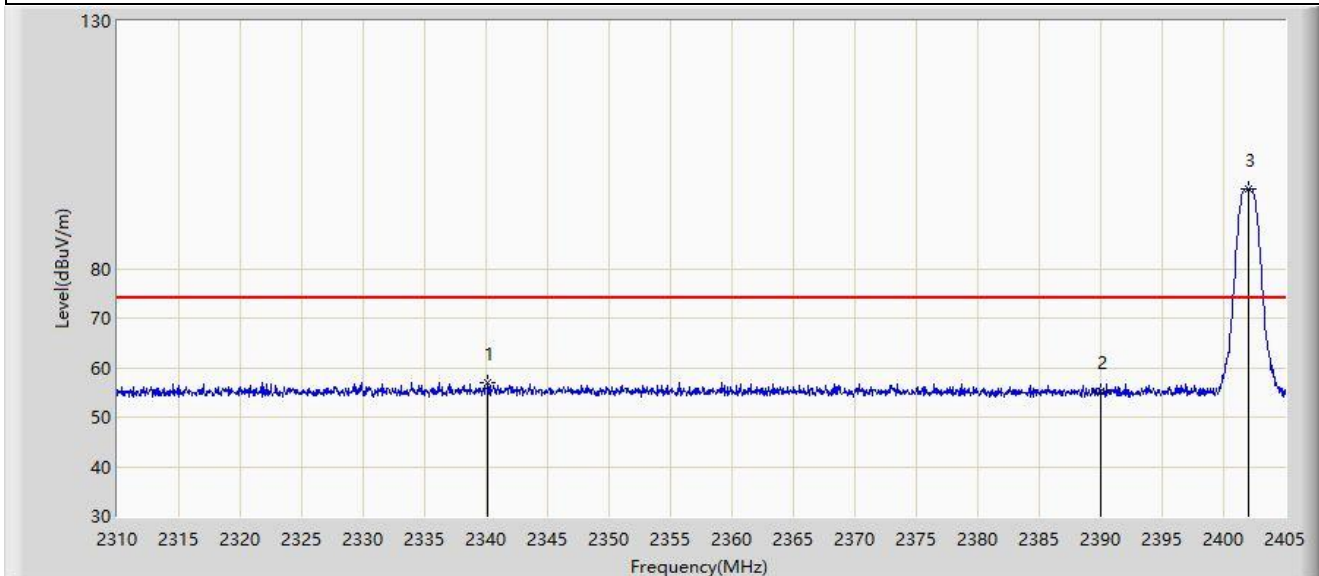


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2353.225	45.281	14.213	-8.719	54.000	31.068	AV
2			2390.000	45.085	14.182	-8.915	54.000	30.903	AV
3		*	2401.913	95.407	64.472	N/A	N/A	30.935	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:19
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

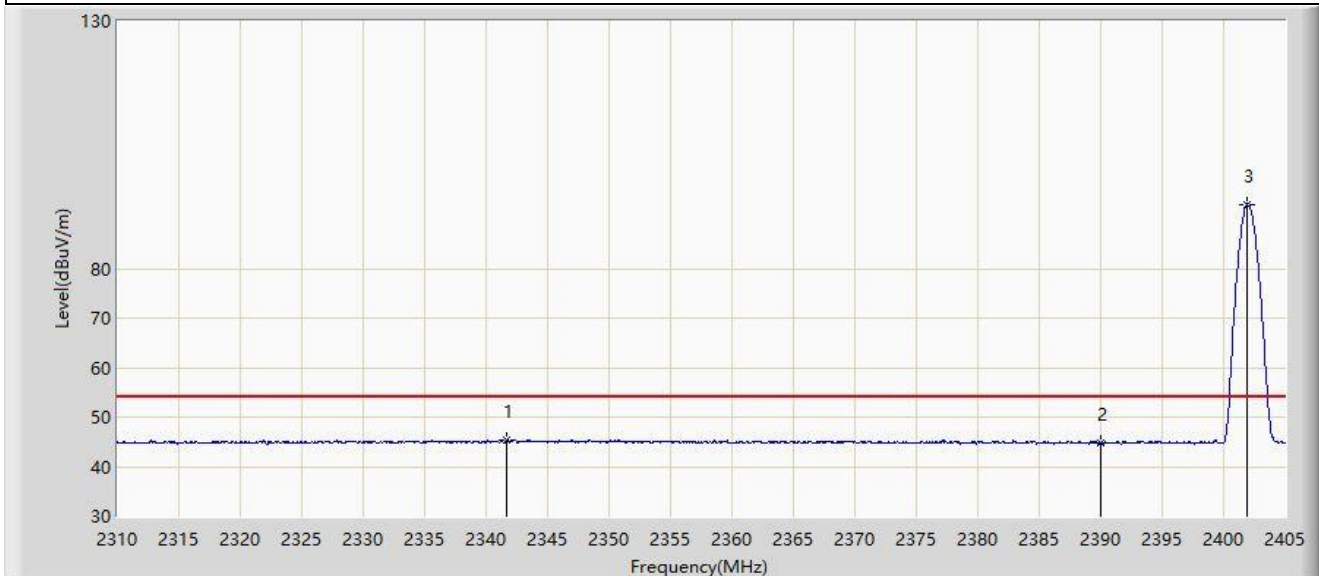


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2340.115	56.903	25.724	-17.097	74.000	31.179	PK
2			2390.000	55.283	24.380	-18.717	74.000	30.903	PK
3		*	2402.008	96.163	65.228	N/A	N/A	30.935	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:20
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2402MHz	

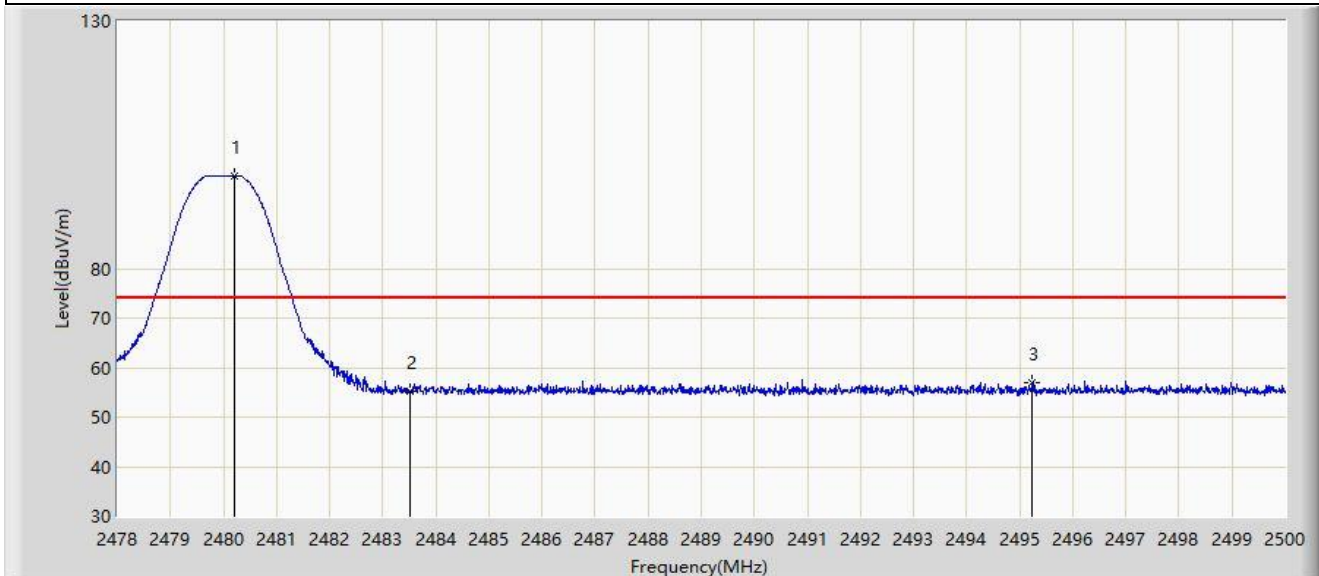


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2341.635	45.398	14.214	-8.602	54.000	31.184	AV
2			2390.000	44.796	13.893	-9.204	54.000	30.903	AV
3		*	2401.913	93.042	62.107	N/A	N/A	30.935	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:21
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

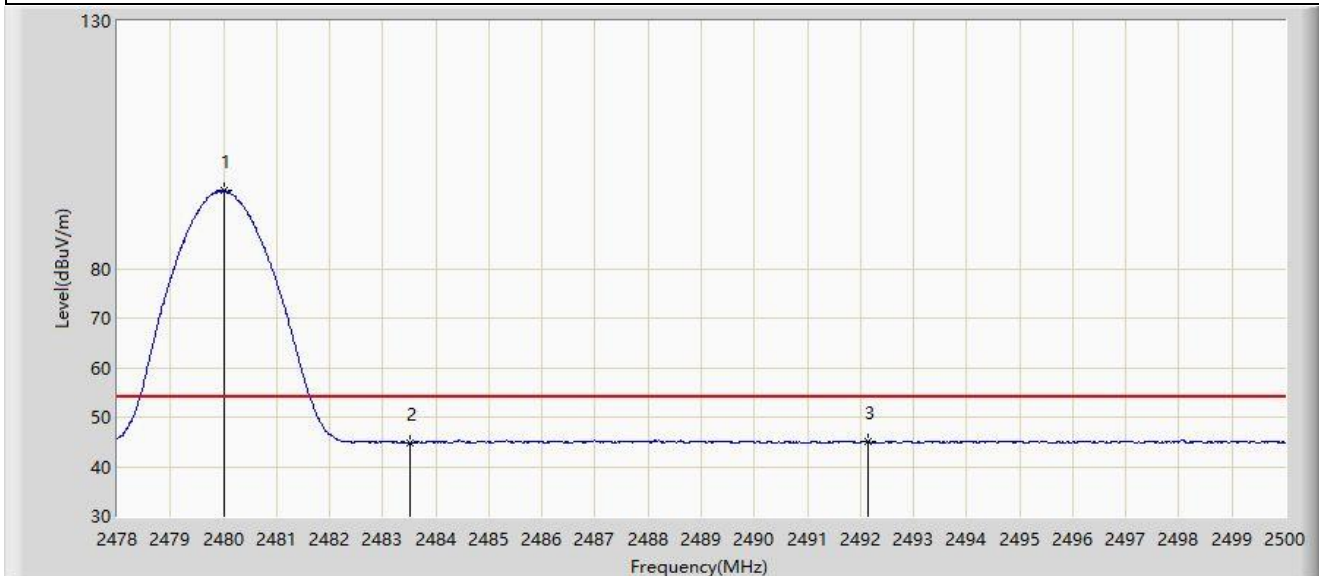


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.211	98.808	67.936	N/A	N/A	30.872	PK
2			2483.500	55.273	24.384	-18.727	74.000	30.889	PK
3			2495.237	56.916	25.969	-17.084	74.000	30.947	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:23
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

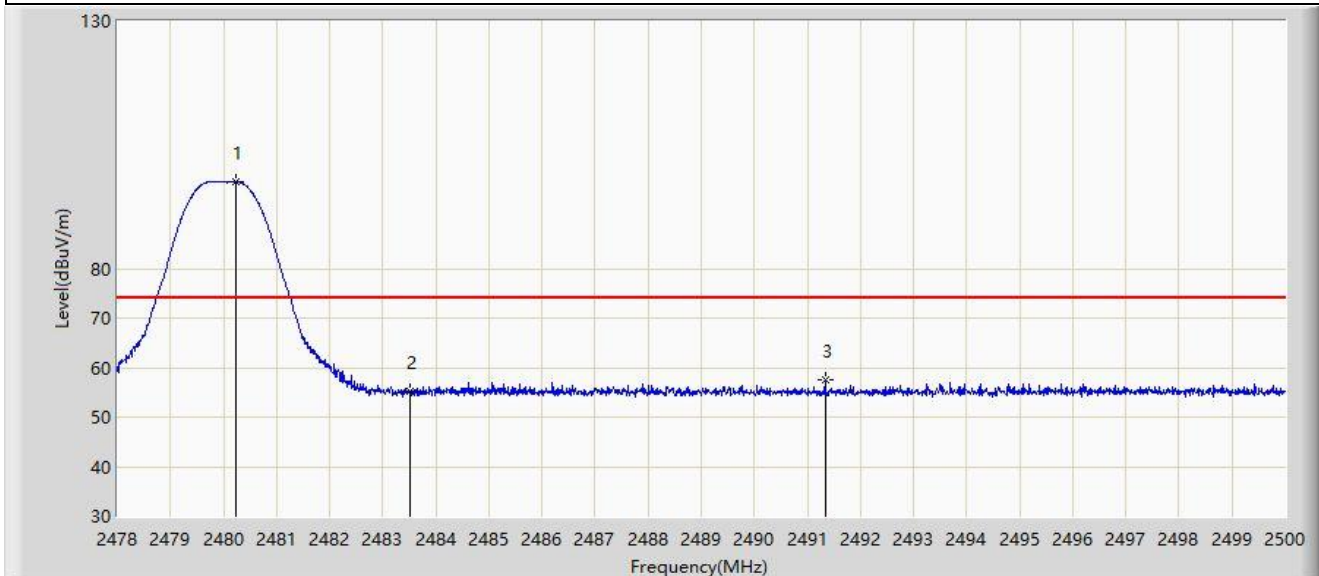


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.024	95.683	64.812	N/A	N/A	30.871	AV
2			2483.500	44.755	13.866	-9.245	54.000	30.889	AV
3			2492.135	45.075	14.143	-8.925	54.000	30.932	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:25
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

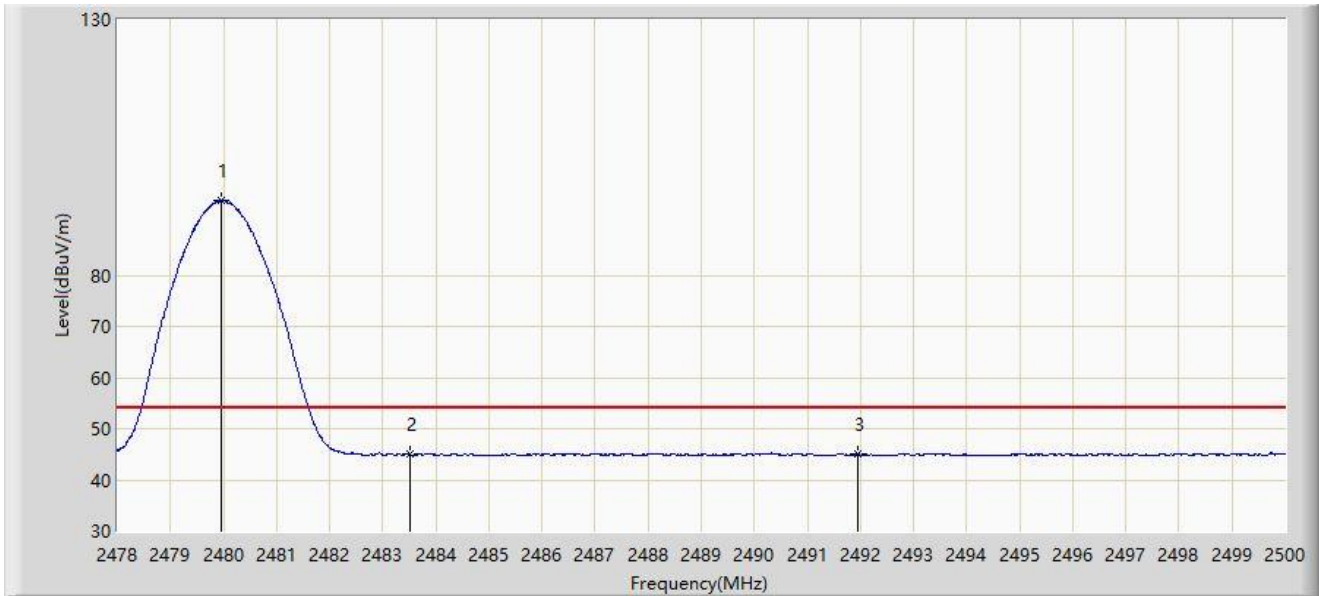


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.233	97.552	66.679	N/A	N/A	30.873	PK
2			2483.500	55.093	24.204	-18.907	74.000	30.889	PK
3			2491.332	57.436	26.508	-16.564	74.000	30.928	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:26
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 1Mbps at channel 2480MHz	

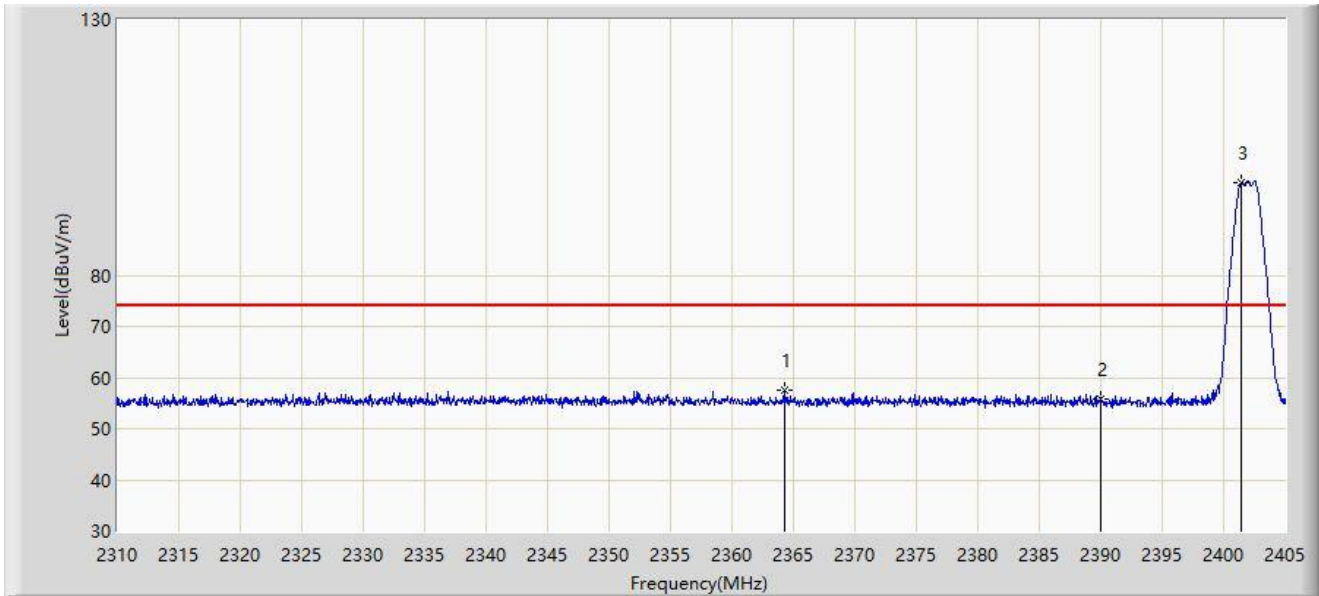


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2479.969	94.630	63.759	N/A	N/A	30.871	AV
2			2483.500	45.126	14.237	-8.874	54.000	30.889	AV
3			2491.948	45.095	14.164	-8.905	54.000	30.931	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:28
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

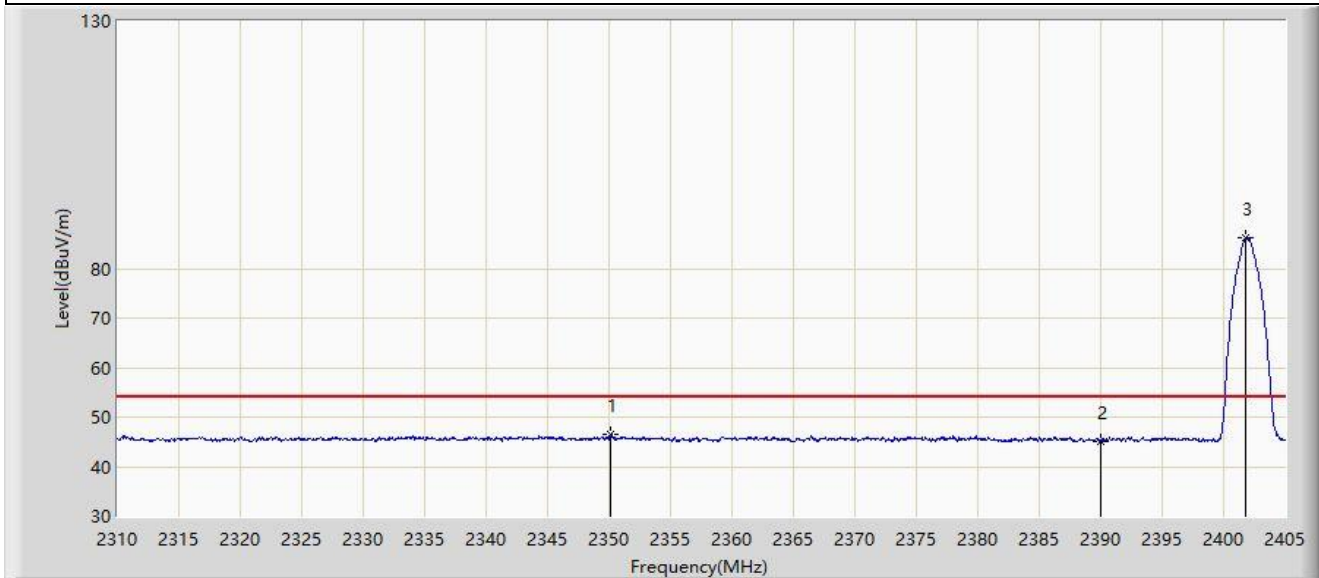


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2364.245	57.491	26.521	-16.509	74.000	30.970	PK
2			2390.000	55.701	24.798	-18.299	74.000	30.903	PK
3		*	2401.437	98.172	67.239	N/A	N/A	30.933	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:29
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

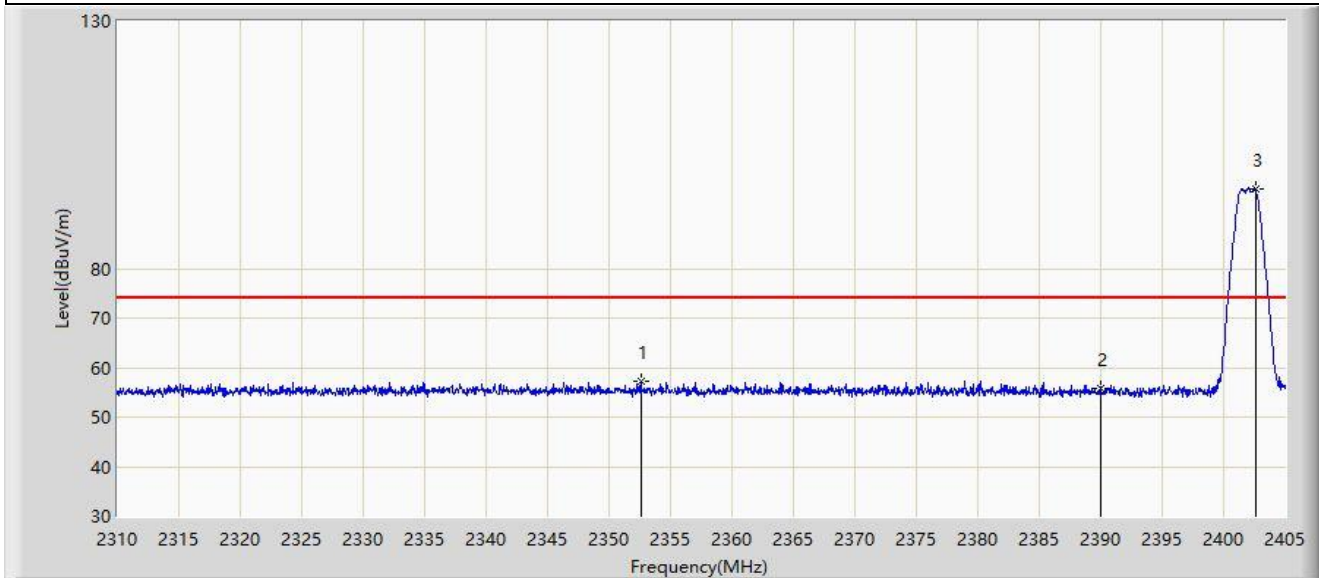


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2350.137	46.516	15.412	-7.484	54.000	31.105	AV
2			2390.000	45.130	14.227	-8.870	54.000	30.903	AV
3		*	2401.817	86.146	55.211	N/A	N/A	30.934	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:30
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

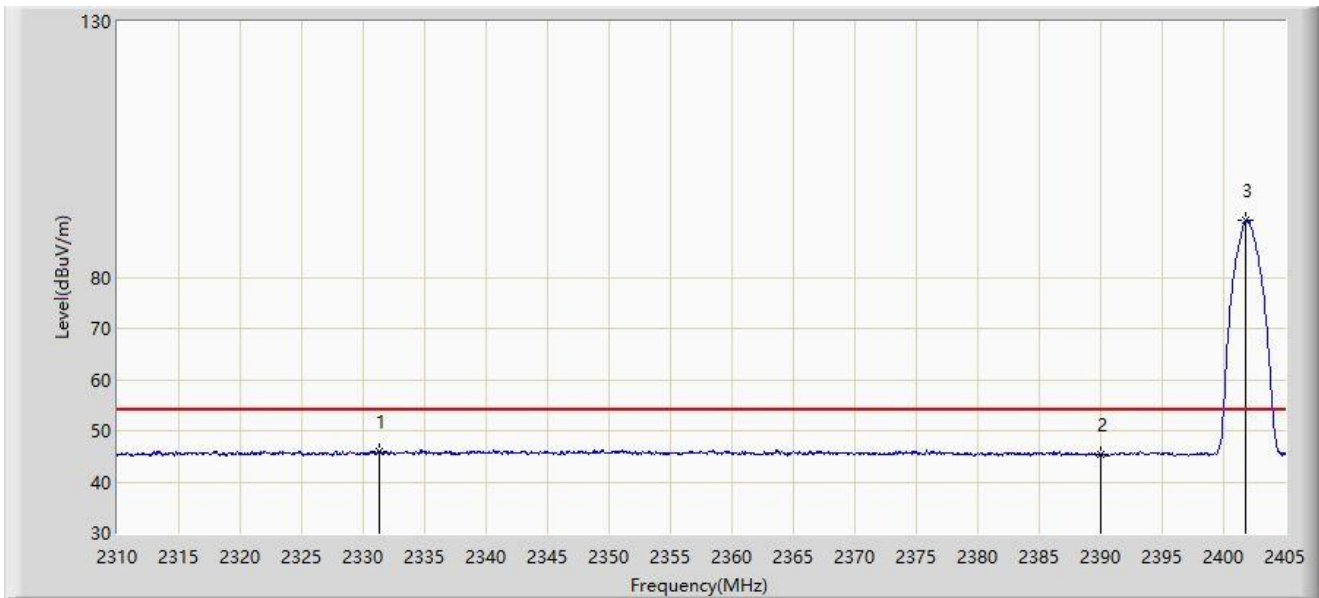


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			2352.560	57.290	26.214	-16.710	74.000	31.076	PK
2			2390.000	55.692	24.789	-18.308	74.000	30.903	PK
3		*	2402.577	96.069	65.131	N/A	N/A	30.938	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:32
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2402MHz	

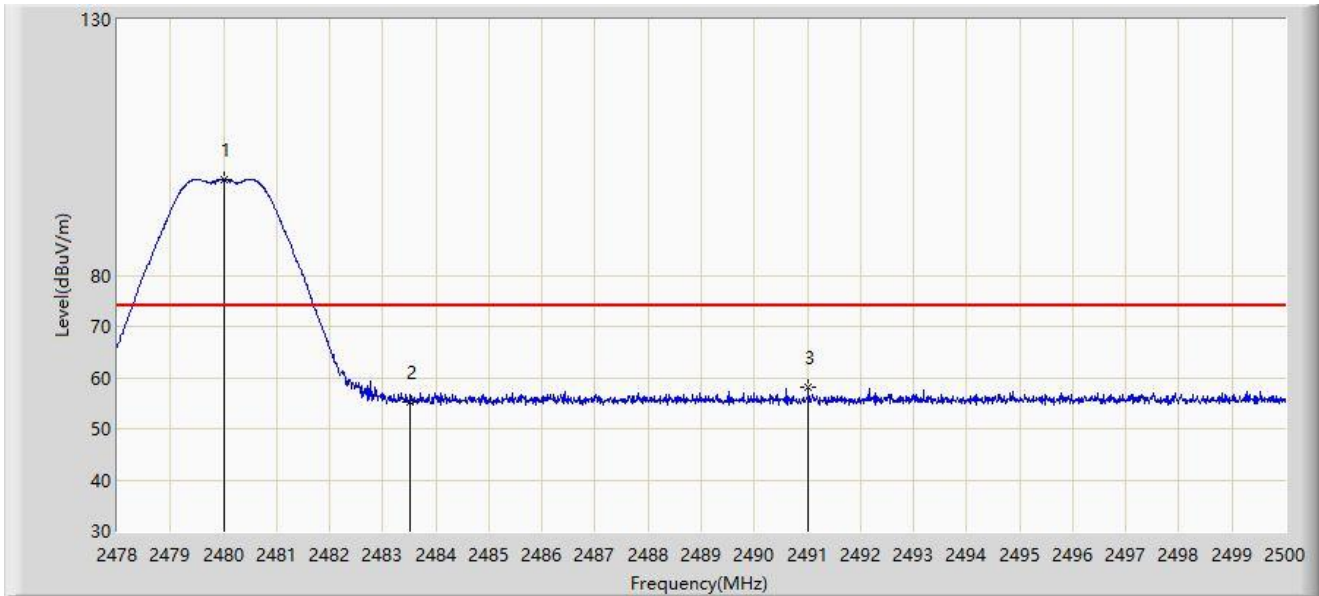


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			2331.327	46.029	14.880	-7.971	54.000	31.150	AV
2			2390.000	45.256	14.353	-8.744	54.000	30.903	AV
3		*	2401.817	91.215	60.280	N/A	N/A	30.934	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:33
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	

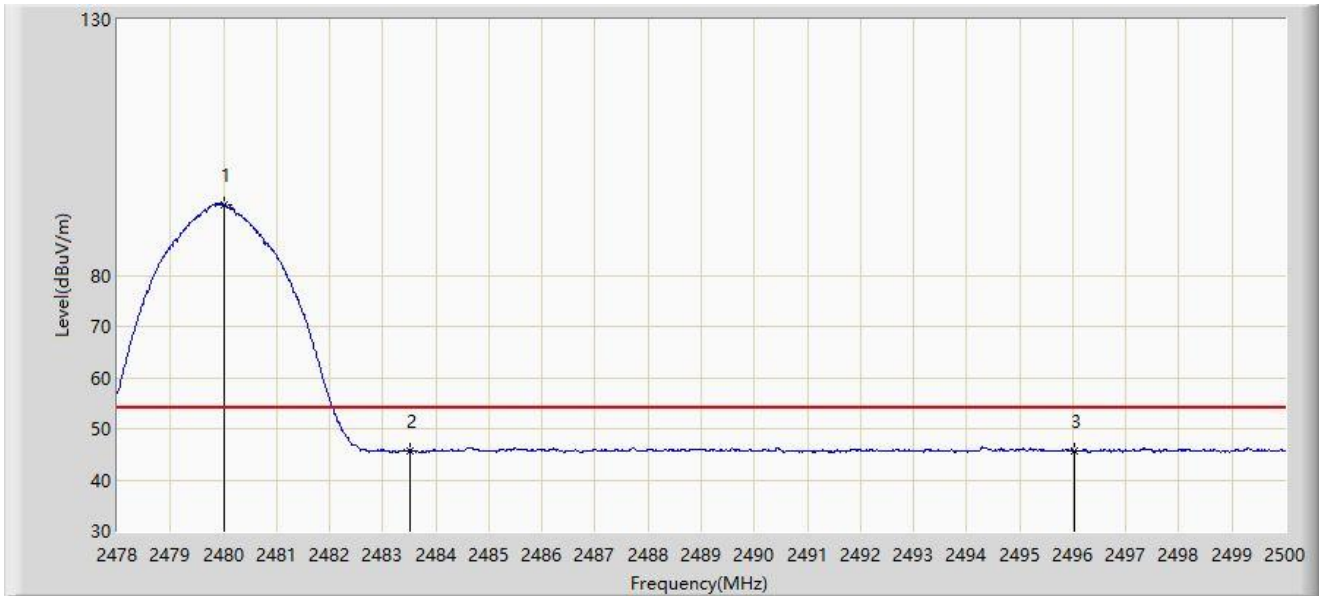


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2480.002	98.802	67.931	N/A	N/A	30.871	PK
2			2483.500	55.354	24.465	-18.646	74.000	30.889	PK
3			2491.024	58.041	27.115	-15.959	74.000	30.926	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:36
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Horizontal
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	

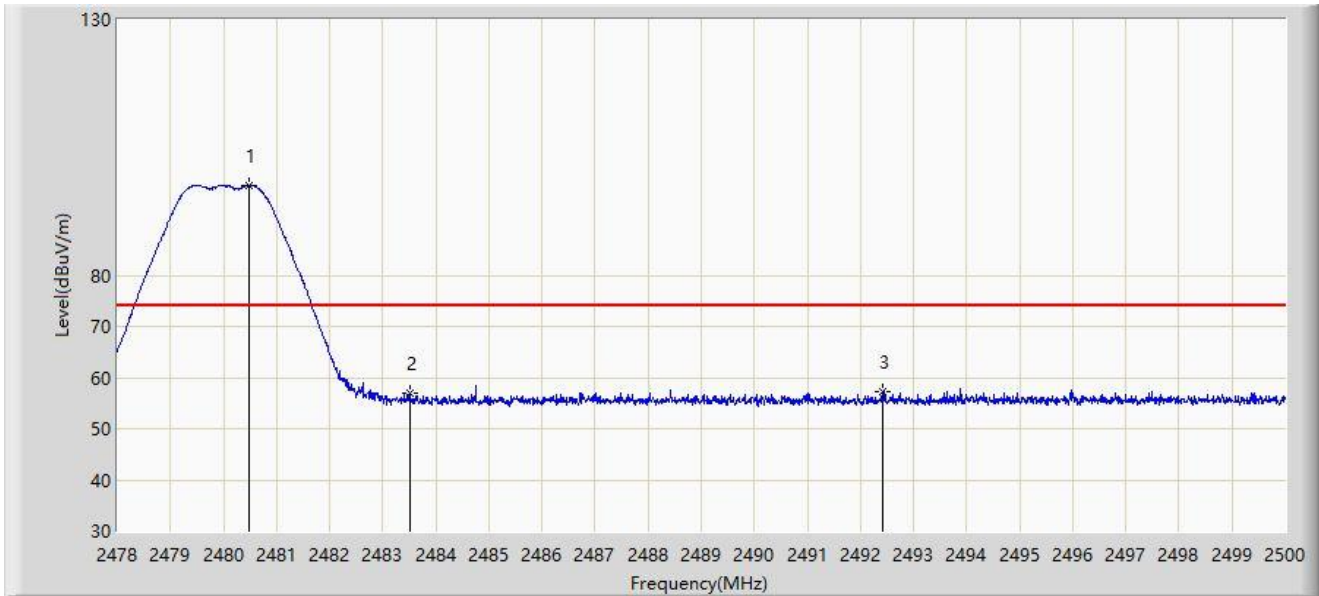


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2480.002	93.861	62.990	N/A	N/A	30.871	AV
2			2483.500	45.701	14.812	-8.299	54.000	30.889	AV
3			2496.018	45.710	14.759	-8.290	54.000	30.951	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:39
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	

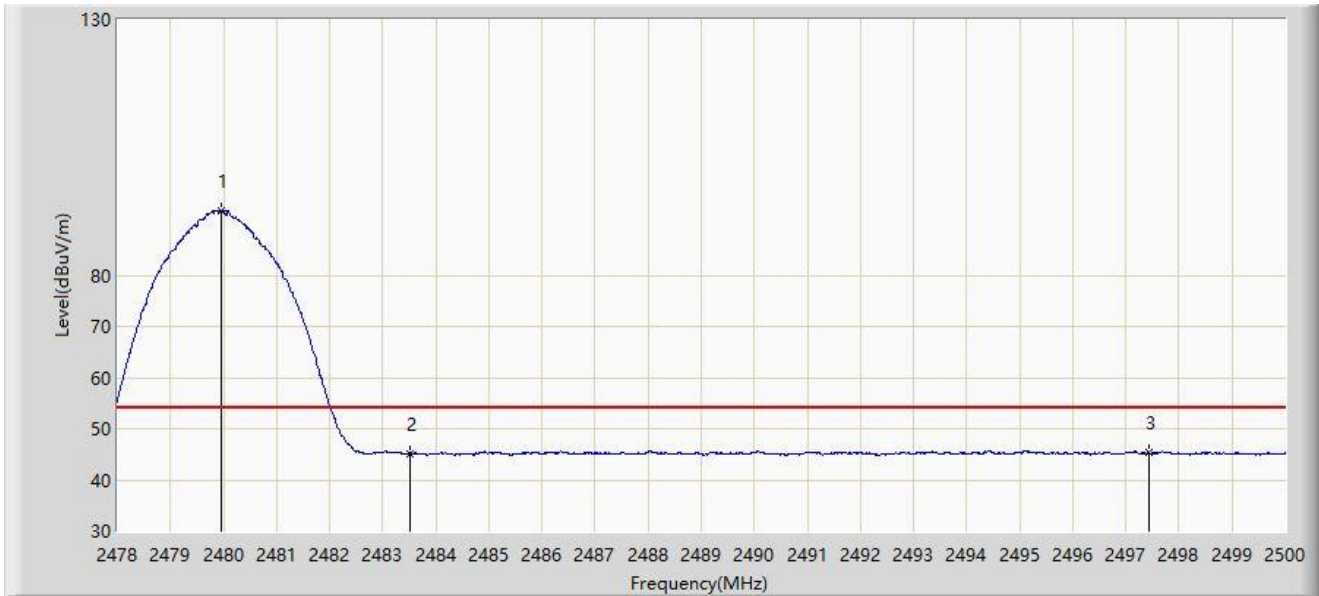


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	2480.486	97.581	66.707	N/A	N/A	30.874	PK
2			2483.500	56.992	26.103	-17.008	74.000	30.889	PK
3			2492.410	57.250	26.317	-16.750	74.000	30.933	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: NS-AC1	Test Data: 2021/12/23 - 15:40
Limit: FCC_Part 15.209_RE(3m)	Engineer: Dillon Diao
Probe: NS-AC1_BBHA9120D	Polarity: Vertical
EUT: Mobile Computer	Power: By Battery
Test Mode: Transmit by BLE 2Mbps at channel 2480MHz	



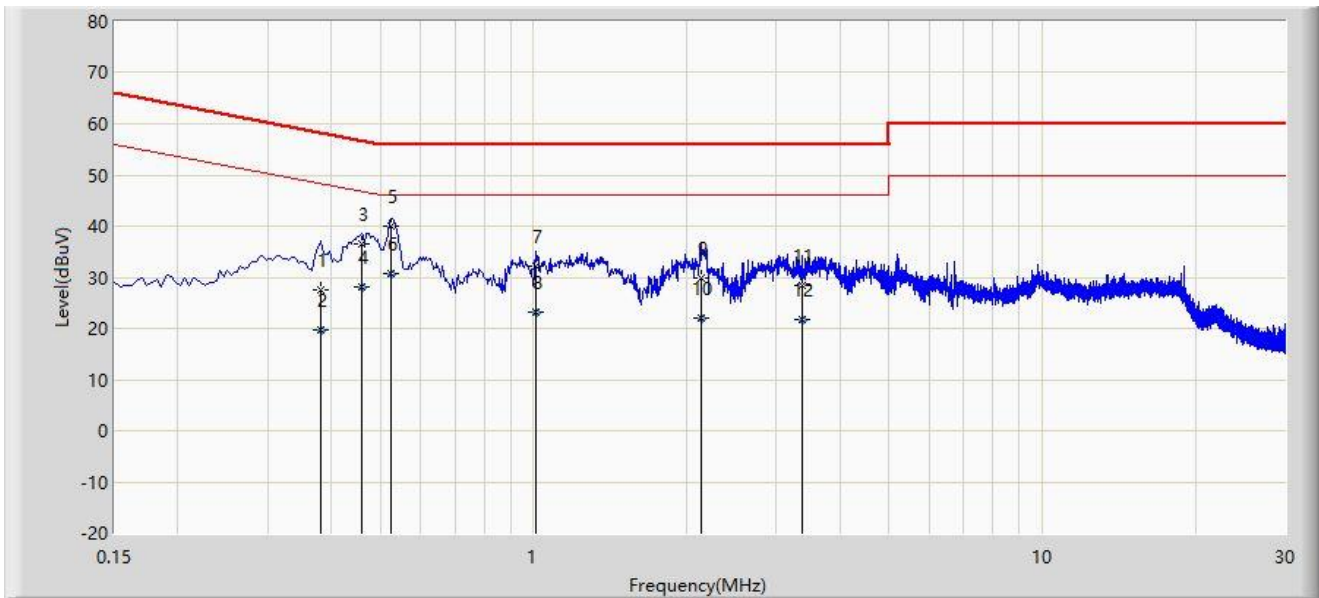
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	2479.969	92.674	61.803	N/A	N/A	30.871	AV
2			2483.500	45.110	14.221	-8.890	54.000	30.889	AV
3			2497.426	45.440	14.492	-8.560	54.000	30.948	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

A.8 AC Conducted Emissions Test Result

Site: NS-SR2	Test Data: 2021/12/28
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dillon Diao
Probe: ENV216_102493_150KHz~30MHz	Polarity: Line
EUT: Mobile Computer	Power: AC 120V/60Hz
Test Mode: Transmit by BLE at channel 2440MHz	

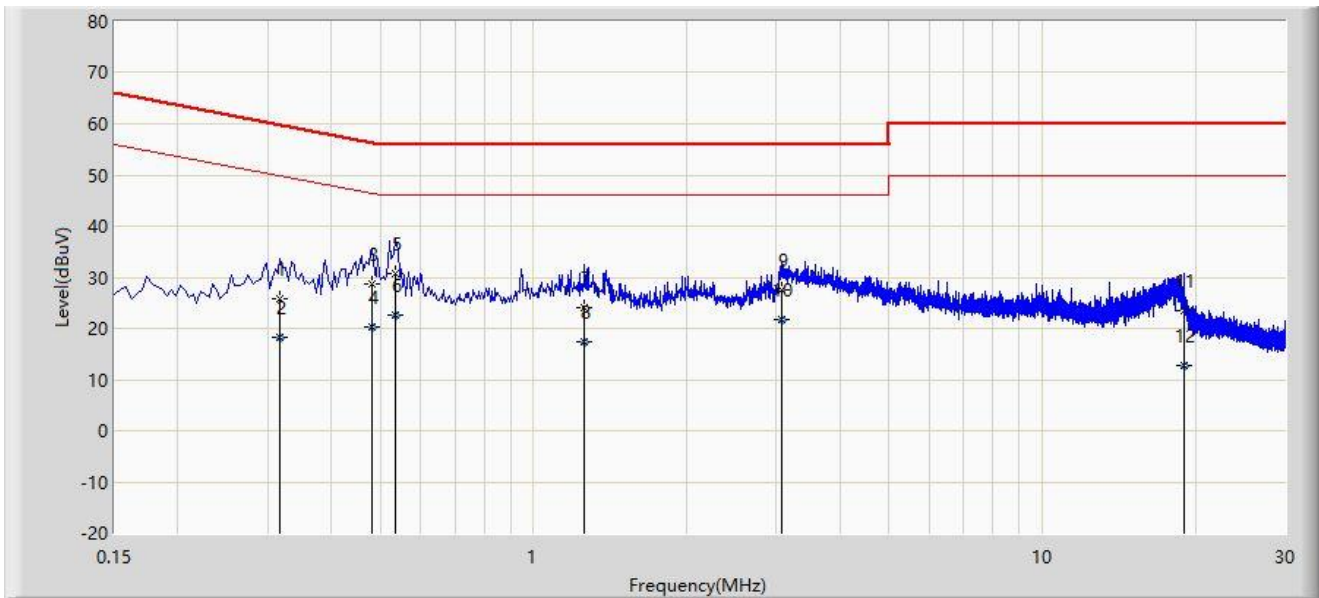


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.382	27.483	17.705	-30.752	58.236	9.779	QP
2			0.382	19.579	9.801	-28.656	48.236	9.779	AV
3			0.458	36.383	26.554	-20.346	56.729	9.829	QP
4			0.458	28.089	18.260	-18.640	46.729	9.829	AV
5			0.526	40.027	30.322	-15.973	56.000	9.705	QP
6		*	0.526	30.803	21.098	-15.197	46.000	9.705	AV
7			1.010	32.079	22.349	-23.921	56.000	9.730	QP
8			1.010	23.299	13.569	-22.701	46.000	9.730	AV
9			2.130	29.726	19.963	-26.274	56.000	9.762	QP
10			2.130	22.065	12.302	-23.935	46.000	9.762	AV
11			3.362	28.460	18.649	-27.540	56.000	9.811	QP
12			3.362	21.742	11.931	-24.258	46.000	9.811	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: NS-SR2	Test Data: 2021/12/28
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dillon Diao
Probe: ENV216_102493_150KHz~30MHz	Polarity: Neutral
EUT: Mobile Computer	Power: AC 120V/60Hz
Test Mode: Transmit by BLE at channel 2440MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.318	25.721	15.906	-34.038	59.759	9.814	QP
2			0.318	18.259	8.444	-31.500	49.759	9.814	AV
3			0.482	28.789	19.168	-27.516	56.305	9.621	QP
4			0.482	20.283	10.662	-26.022	46.305	9.621	AV
5			0.534	30.751	21.102	-25.249	56.000	9.650	QP
6		*	0.534	22.531	12.882	-23.469	46.000	9.650	AV
7			1.258	24.180	14.505	-31.820	56.000	9.675	QP
8			1.258	17.520	7.845	-28.480	46.000	9.675	AV
9			3.066	27.590	17.849	-28.410	56.000	9.742	QP
10			3.066	21.773	12.032	-24.227	46.000	9.742	AV
11			18.974	23.510	13.119	-36.490	60.000	10.391	QP
12			18.974	12.776	2.385	-37.224	50.000	10.391	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Appendix B - Test Setup Photograph

Refer to “2111RSU063-UT” file.

Appendix C - EUT Photograph

Refer to “2111RSU063-UE” file.

————— The End —————