



RF MEASUREMENT REPORT

FCC ID: DD4MXWAPX
Applicant: Shure Incorporated
Product: Access Point Transceiver
Regulatory Model Number (RMN): MXWAPX
Product Number: MXWAPX4 Z10, MXWAPX8 Z10
Brand Name:  **SHURE**
FCC Classification: Digital Transmission System (DTS)
FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
Result: Complies
Received Date: 2024-07-02
Test Date: 2024-07-24 ~ 2024-09-09

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 (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2408RSU009-U2	V01	Initial Report	2024-09-14	Valid

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1. General Information

1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

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 Location (Suzhou - Wujiang)			
	Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People’s Republic of China			
☒	Laboratory Accreditations			
	A2LA: 3628.01		CNAS: L10551	
	FCC: CN1166		ISED: CN0001	
	VCCI:	☐ R-20025	☐ G-20034	☐ C-20020
		☐ T-20020		
		☐ R-20141	☐ G-20134	☐ C-20103
			☐ T-20104	
☐	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		CNAS: L10551	
☐	FCC: CN1284		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: 3261			
	FCC: 291082, TW3261		ISED: TW3261	

1.4. Product Information

Product Name	Access Point Transceiver
Regulatory Model Number (RMN):	MXWAPX
Product Number:	MXWAPX4 Z10, MXWAPX8 Z10
Serial No.	3DF13240539
DECT Specification	1920 MHz – 1930 MHz
Bluetooth Specification	v5.3 single mode, BLE only
Power Supply	PoE Input (37 - 57VDC, 12.95W)
Note 1: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. Note 2: PoE Switch is not sold with product. Note 3: MXWAPX4 supports 4 channel wireless microphones, MXWAPX8 supports 8 channel wireless microphones, they have same hardware with different software. Note 4: All tests were evaluated with MXWAPX8.	

1.5. Radio Specification under Test

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	PIFA Antenna
Antenna Gain	3.39dBi

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	--	--	--	--

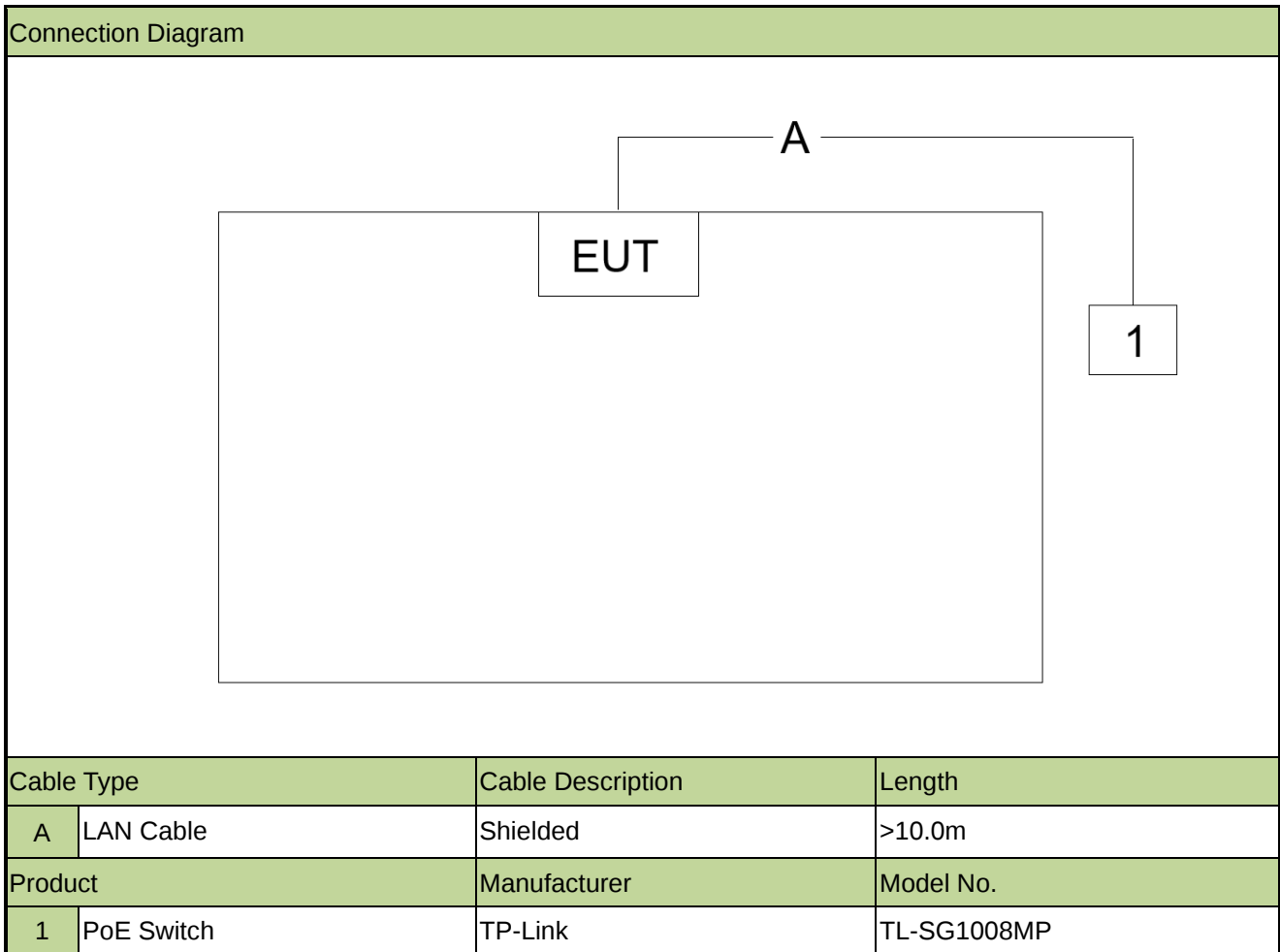
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by BLE - 1Mbps
Mode 2: Transmit by BLE - 2Mbps
Mode 3: Receive by BLE - 1Mbps
Mode 4: Receive by BLE - 2Mbps

2.2. 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.



2.3. Test Software

The test utility software used during testing was “teraterm”, and the version was V4.103, all test commands were provided by the manufacturer.

2.4. 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

2.5. 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
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2025-05-20	WZ-SR5
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2024-10-11	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2024-11-09	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2025-05-15	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06987	1 year	2024-09-07	WZ-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06987	1 year	2025-09-06	WZ-AC1
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2024-12-04	WZ-AC1
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Shielding Room	MIX-BEP	WZ-SR2	MRTSUE06215	5 years	2026-12-20	WZ-SR2
Thermohygrometer	testo	608-H1	MRTSUE06404	1 year	2025-05-12	WZ-SR2
Current Probe	FCC	F-52	MRTSUE06494	1 year	2025-04-10	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2025-09-05	WZ-SR2

Software	Version	Function
e3	230711	RE & CE
BenchVue Power Meter	2019	Power
Controller_MF 7802	1.02	RE Antenna & Turntable

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. 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
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.4dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.2dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.7%

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

Notes:

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. 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 Measurement

6.2.1. Test Limit

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

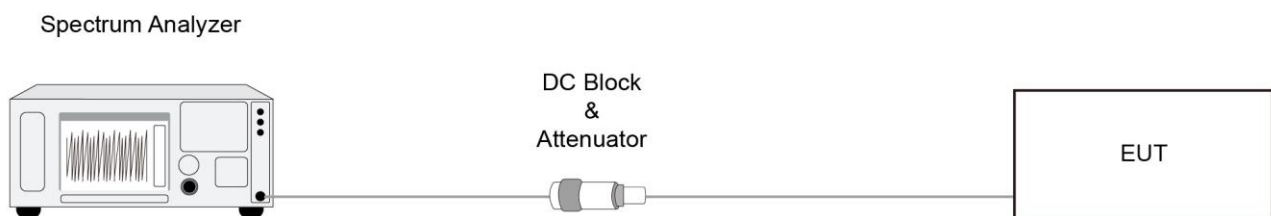
6.2.2. Test Procedure

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.2.

6.3. Output Power Measurement

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

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

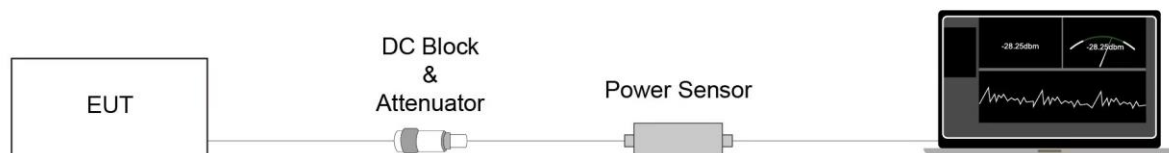
Method PKPM1 (Peak Power Measurement of Signals with DTS BW $\leq$ 50MHz)

Peak 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 pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

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.3.

6.4. Power Spectral Density Measurement

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.

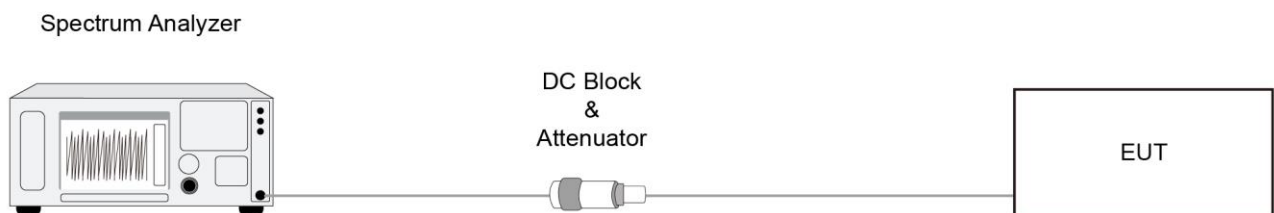
6.4.2. Test Procedure

ANSI C63.10-2013 Section 11.10.2

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

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

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

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Setting

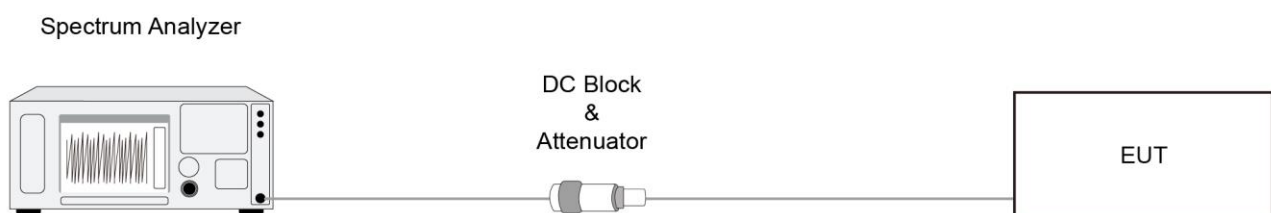
Reference level measurement

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.5.

6.6. Radiated Spurious Emission Measurement

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

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

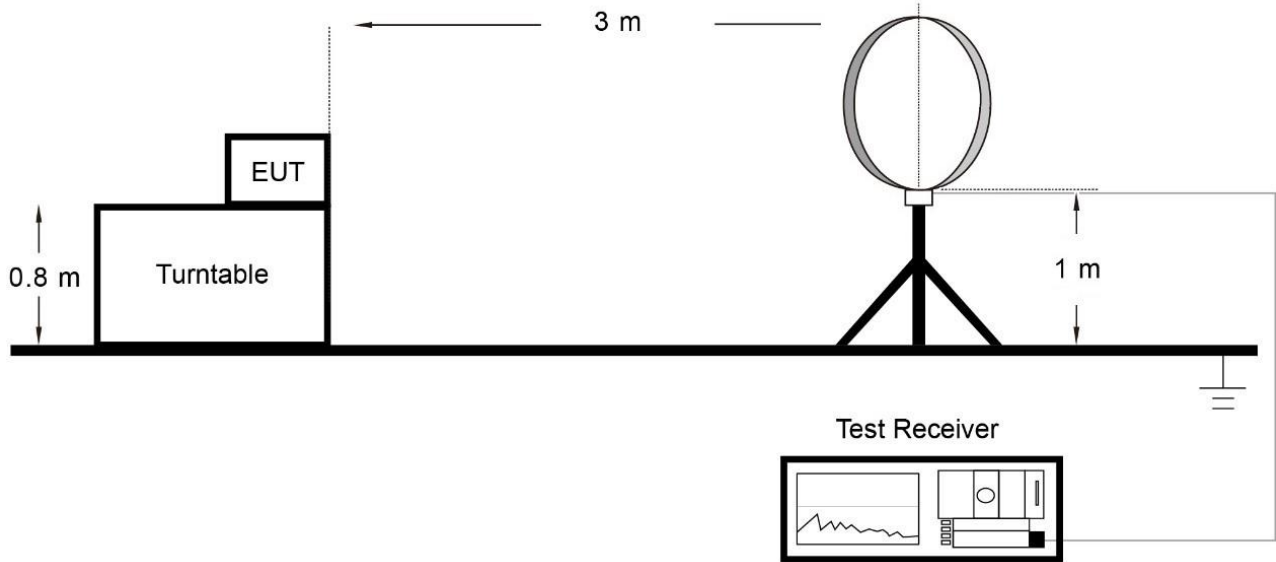
Average Measurements above 1GHz (Method VB)

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 = 10Hz

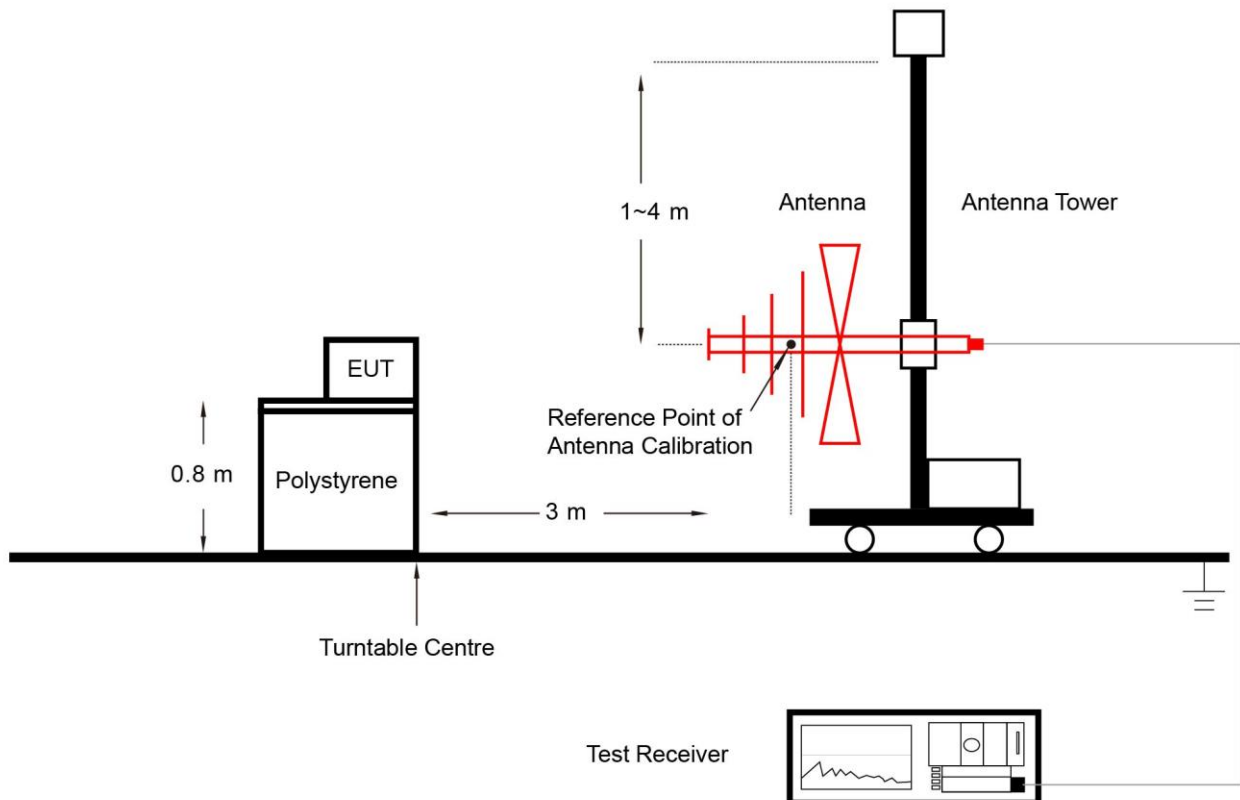
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear 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. Trace was allowed to stabilize

6.6.4. Test Setup

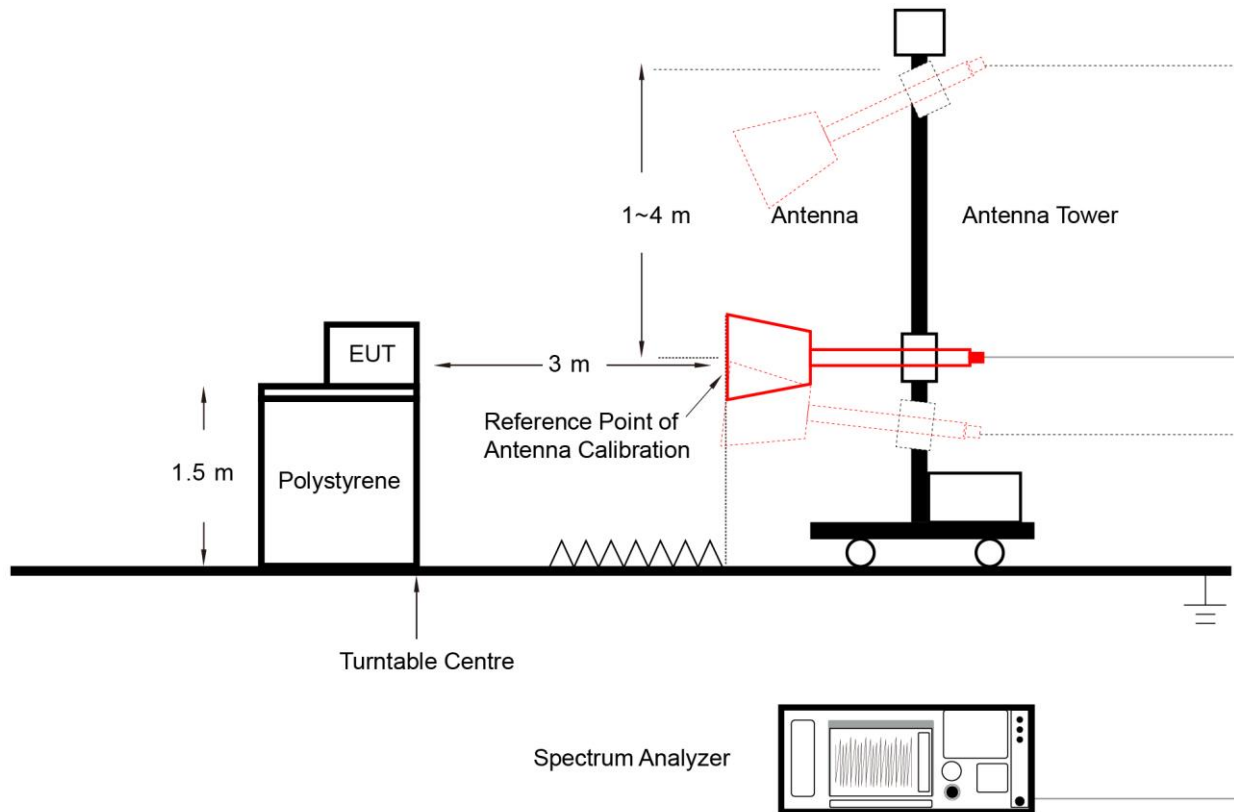
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

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

ANSI C63.10-2013 Section 6.3 & 6.6 & 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

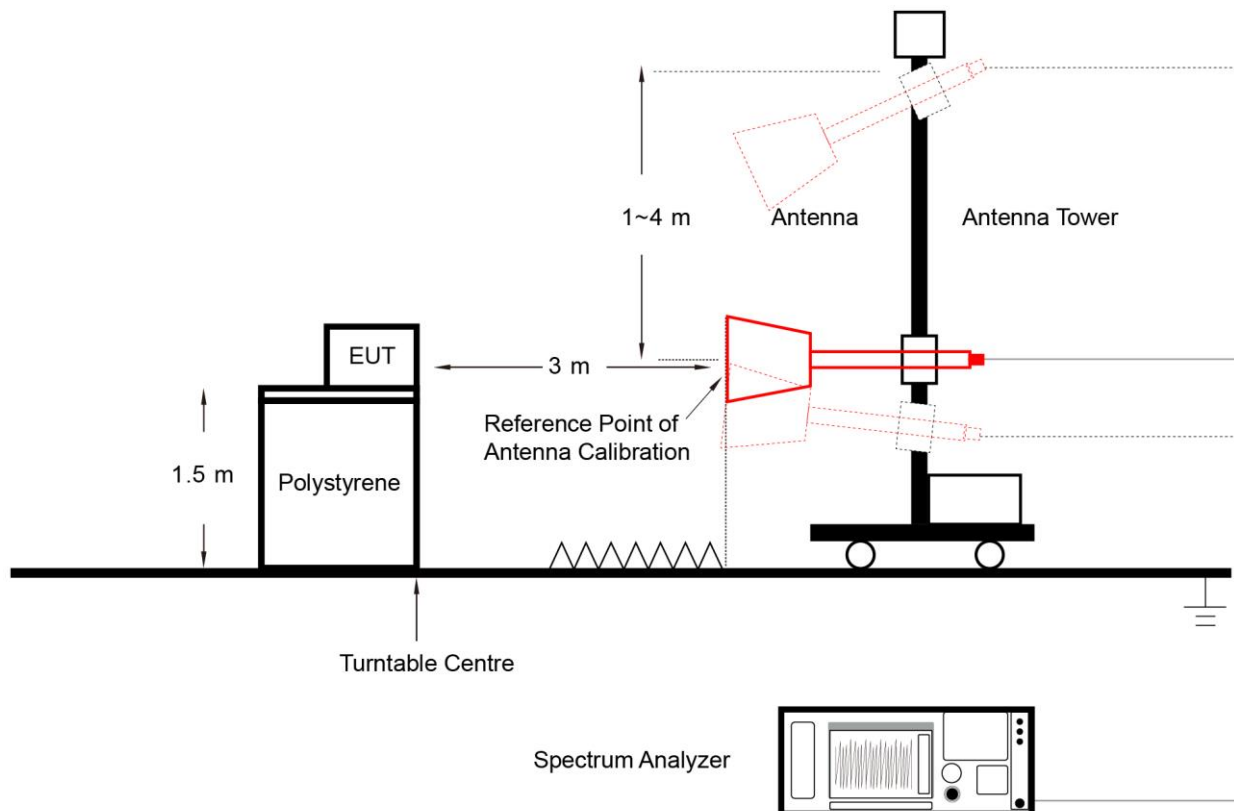
Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; 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. 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.7.

6.8. AC Conducted Emissions Measurement

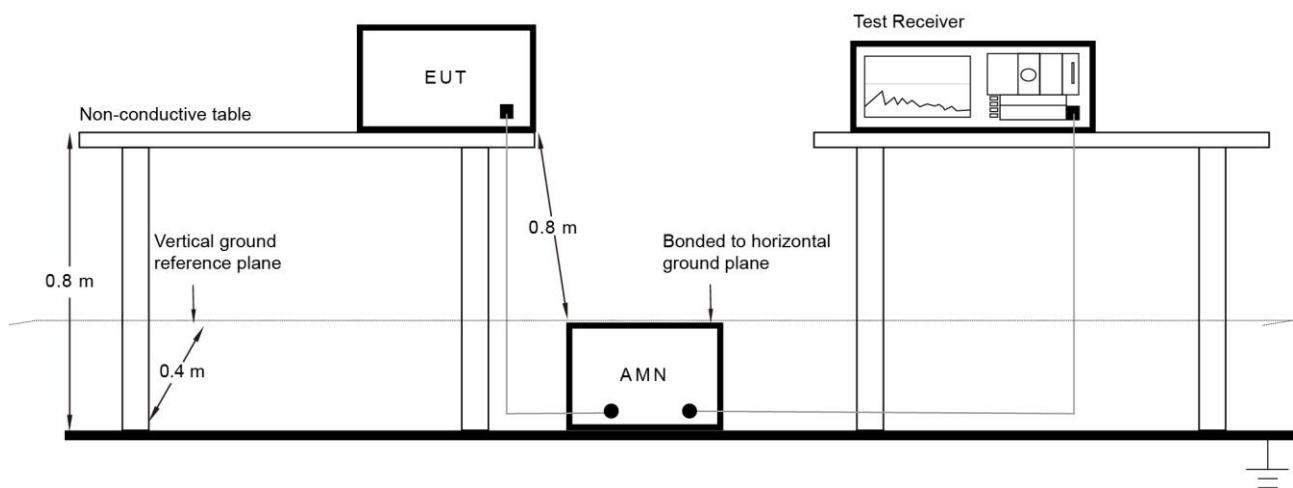
6.8.1. Test Limit

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

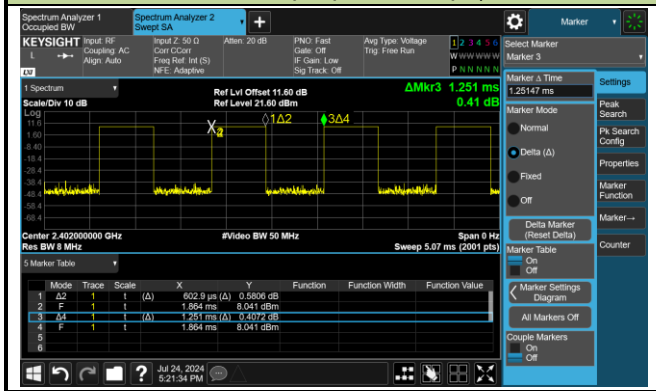
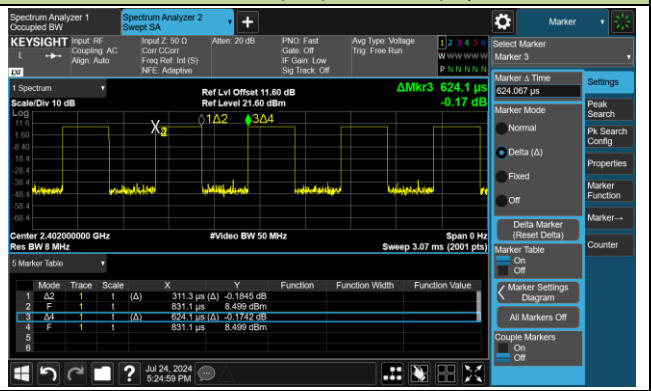
Refer to Appendix A.8.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-24		

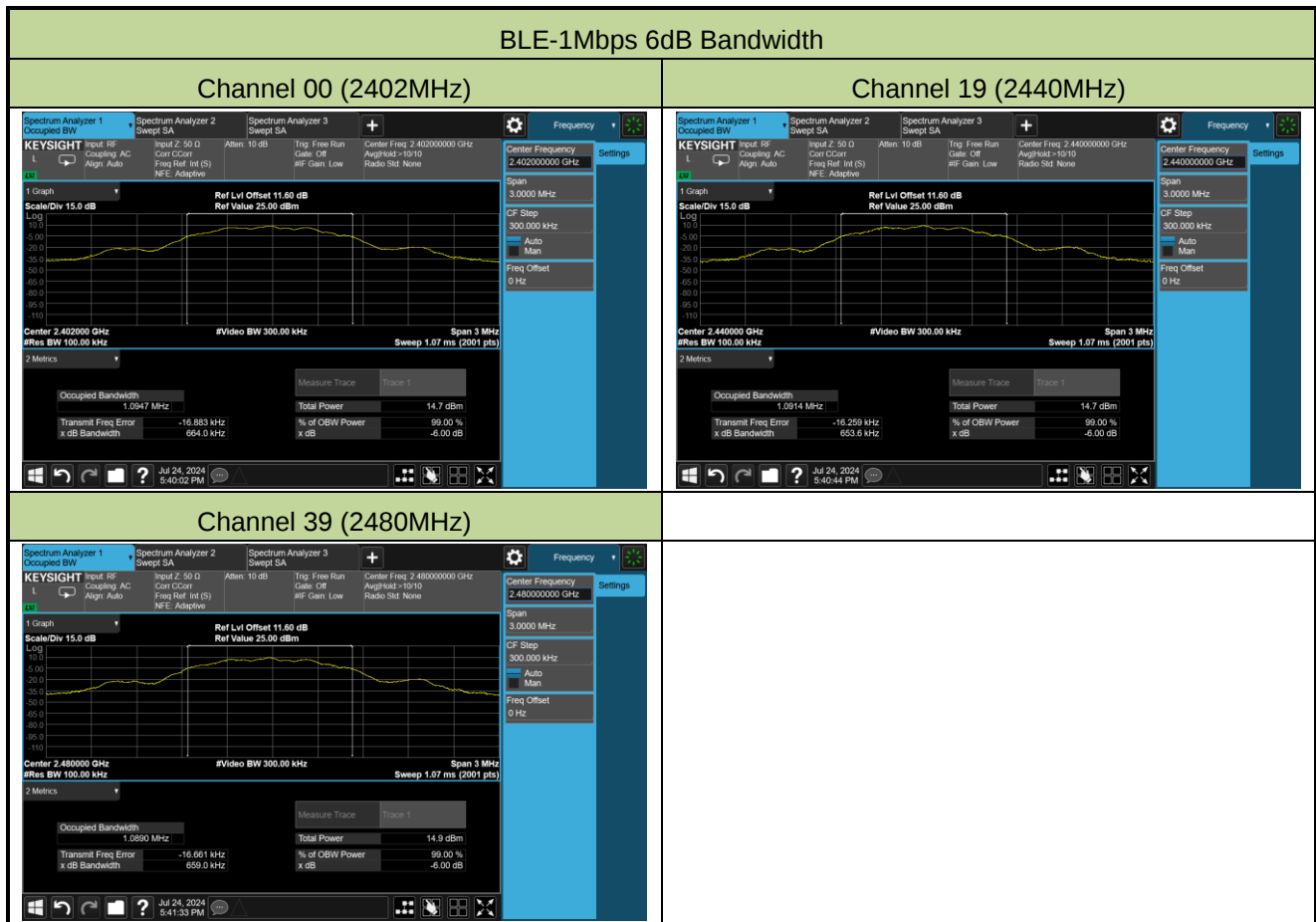
Test Mode	Duty Cycle
BLE-1Mbps	48.19%
BLE-2Mbps	49.88%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 602.9 μ s)	BLE-2Mbps (T = 311.3 μ s)

A.2 6dB Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-24		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.6640	≥ 0.5
BLE	1Mbps	19	2440	0.6536	≥ 0.5
BLE	1Mbps	39	2480	0.6590	≥ 0.5
BLE	2Mbps	00	2402	0.9734	≥ 0.5
BLE	2Mbps	19	2440	1.0550	≥ 0.5
BLE	2Mbps	39	2480	0.9663	≥ 0.5



BLE-2Mbps 6dB Bandwidth

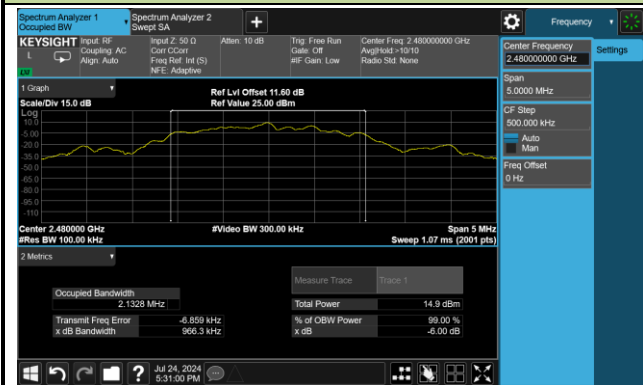
Channel 00 (2402MHz)



Channel 19 (2440MHz)



Channel 39 (2480MHz)



A.3 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-24		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	8.71	≤ 30.00	Pass
BLE	1Mbps	19	2440	9.05	≤ 30.00	Pass
BLE	1Mbps	39	2480	9.12	≤ 30.00	Pass
BLE	2Mbps	00	2402	8.74	≤ 30.00	Pass
BLE	2Mbps	19	2440	9.06	≤ 30.00	Pass
BLE	2Mbps	39	2480	9.12	≤ 30.00	Pass

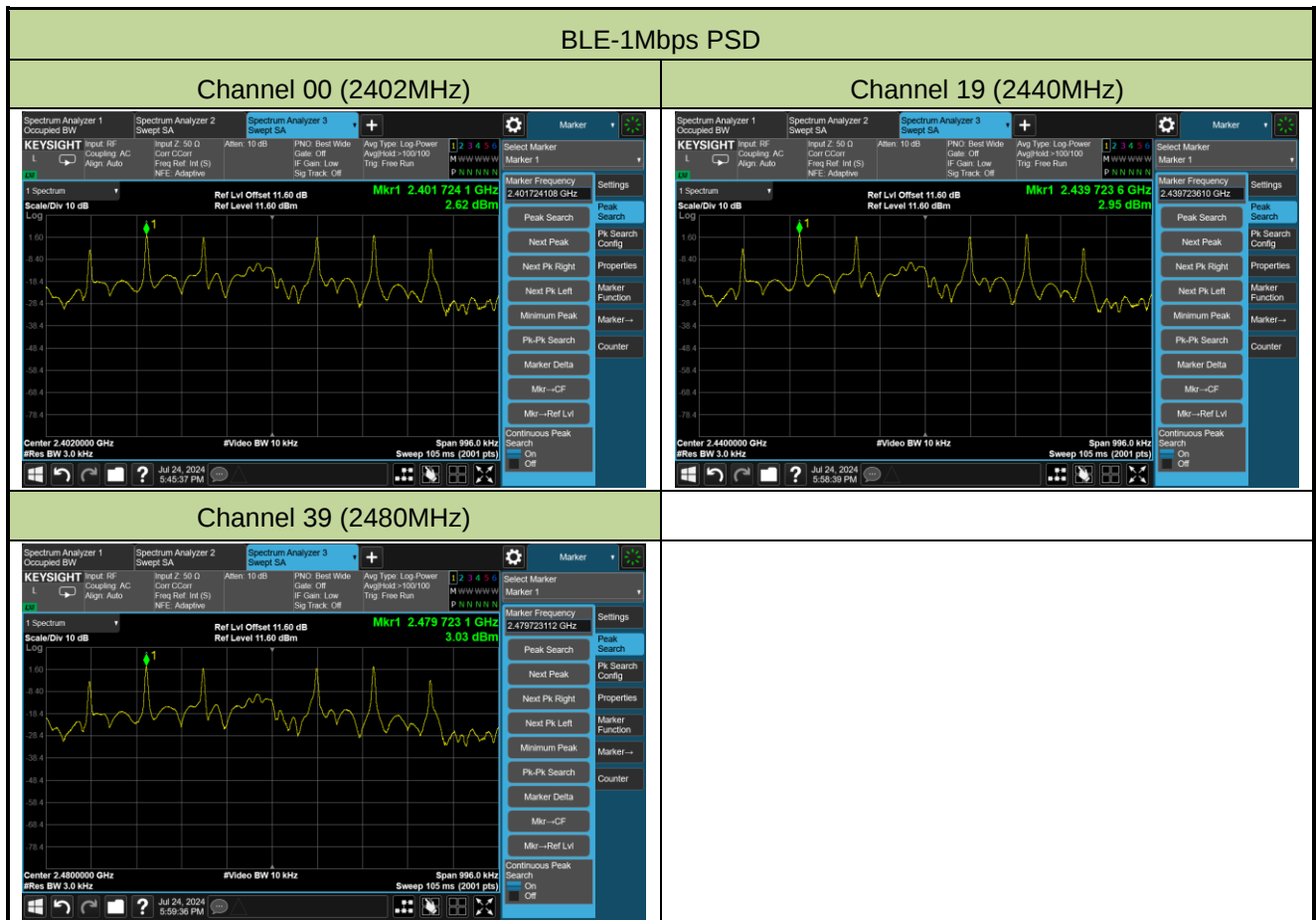
Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	8.60	≤ 30.00	Pass
BLE	1Mbps	19	2440	8.95	≤ 30.00	Pass
BLE	1Mbps	39	2480	9.01	≤ 30.00	Pass
BLE	2Mbps	00	2402	8.62	≤ 30.00	Pass
BLE	2Mbps	19	2440	8.96	≤ 30.00	Pass
BLE	2Mbps	39	2480	9.02	≤ 30.00	Pass

A.4 Power Spectral Density Test Result

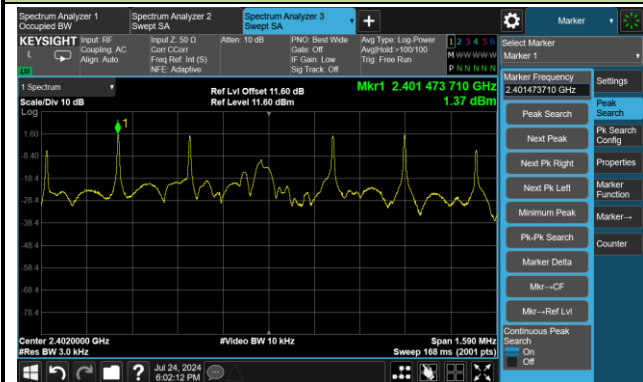
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-24		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	2.62	≤ 8.00	Pass
BLE	1Mbps	19	2440	2.95	≤ 8.00	Pass
BLE	1Mbps	39	2480	3.03	≤ 8.00	Pass
BLE	2Mbps	00	2402	1.37	≤ 8.00	Pass
BLE	2Mbps	19	2440	1.70	≤ 8.00	Pass
BLE	2Mbps	39	2480	1.85	≤ 8.00	Pass

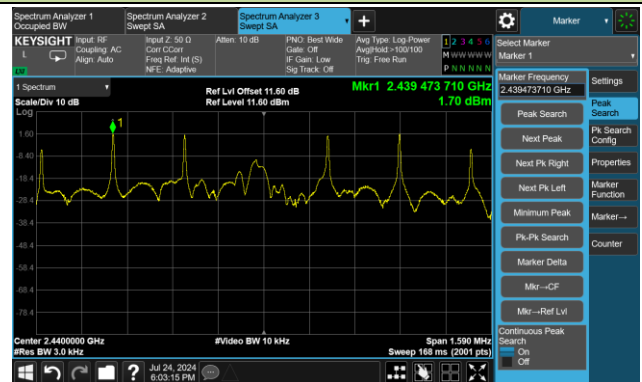


BLE-2Mbps PSD

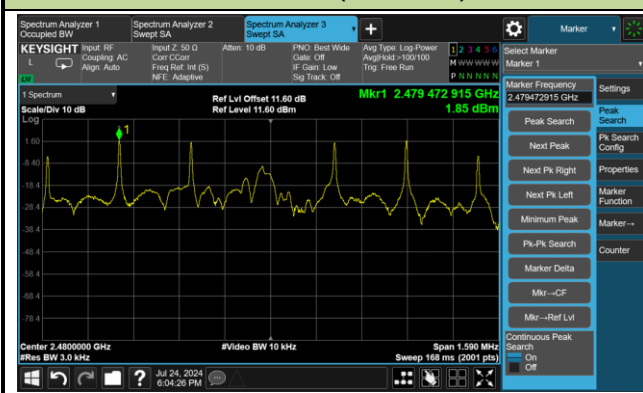
Channel 00 (2402MHz)



Channel 19 (2440MHz)



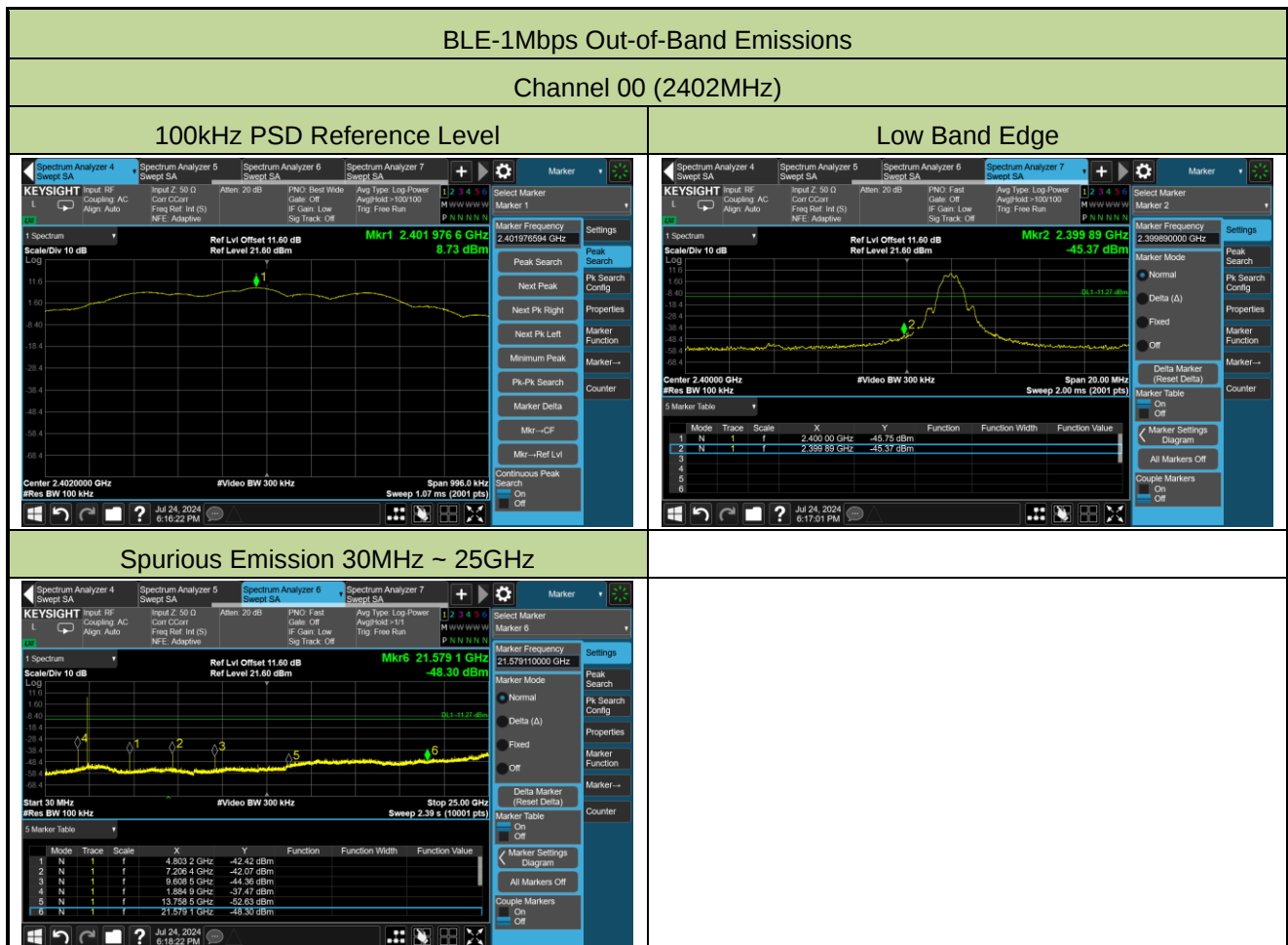
Channel 39 (2480MHz)



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

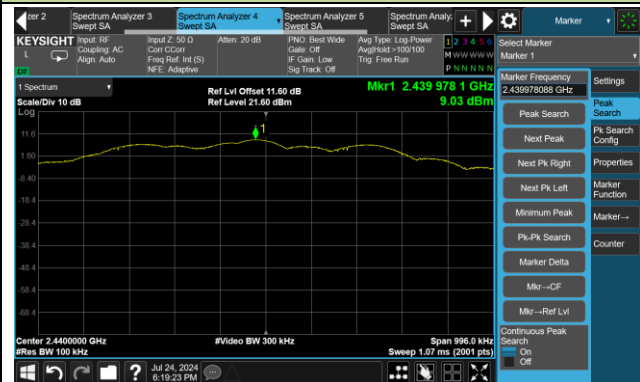
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-07-24		

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit	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



Channel 19 (2440MHz)

100kHz PSD Reference Level

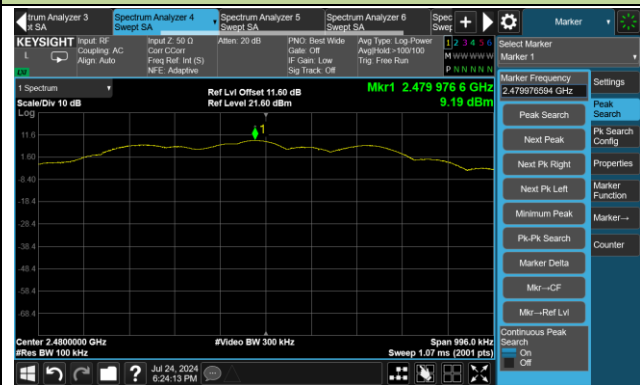


Spurious Emission 30MHz ~ 25GHz

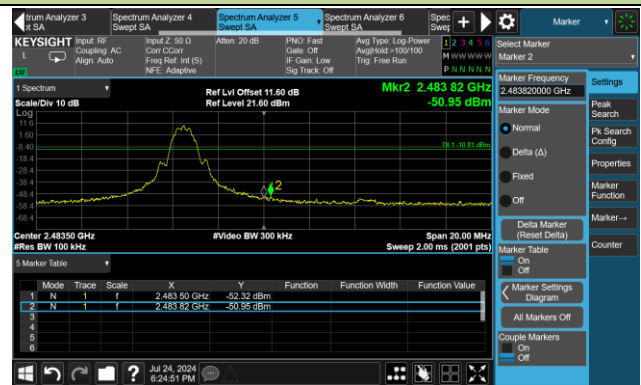


Channel 39 (2480MHz)

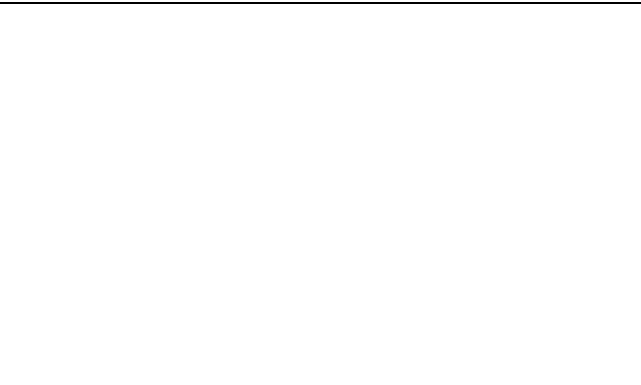
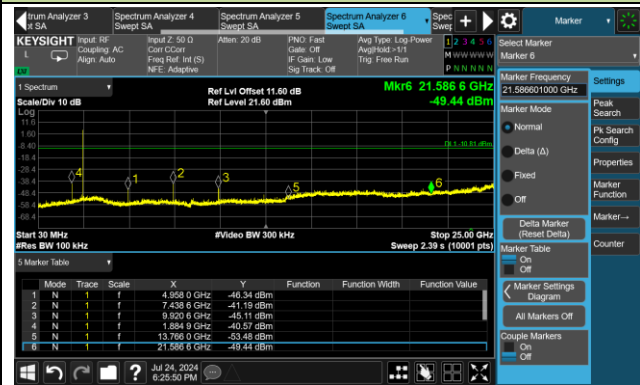
100kHz PSD Reference Level



High Band Edge



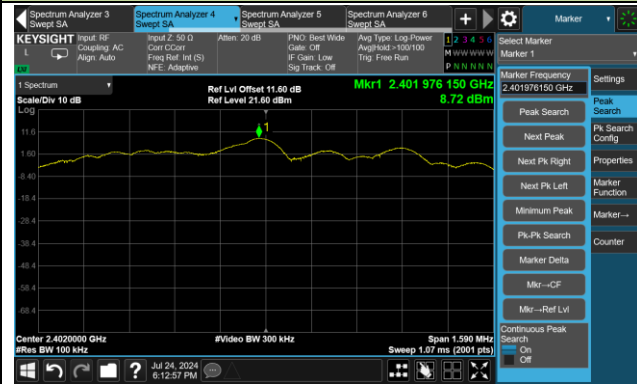
Spurious Emission 30MHz ~ 25GHz



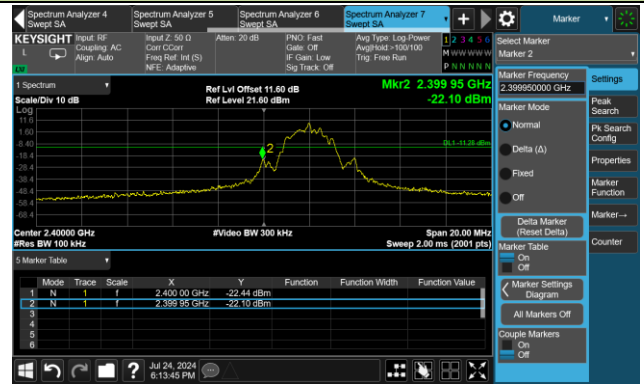
BLE-2Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

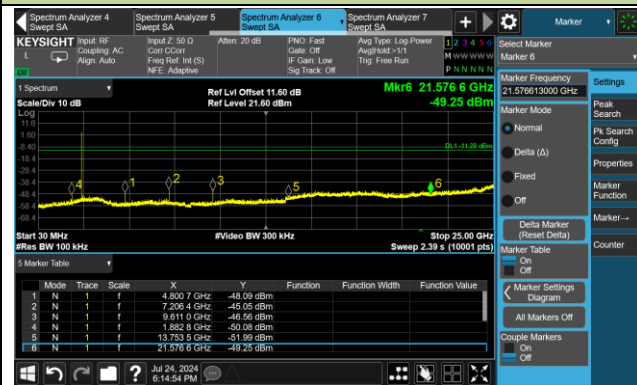
100kHz PSD Reference Level



Low Band Edge

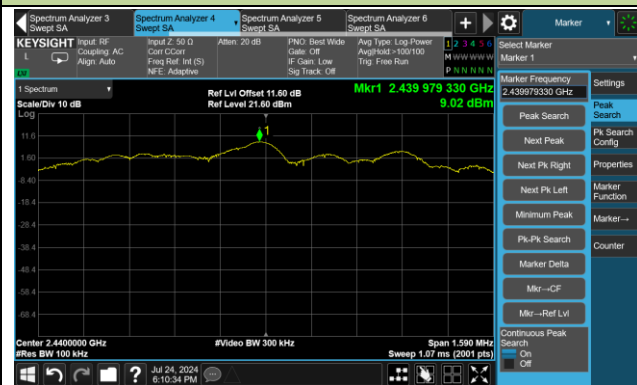


Spurious Emission 30MHz ~ 25GHz

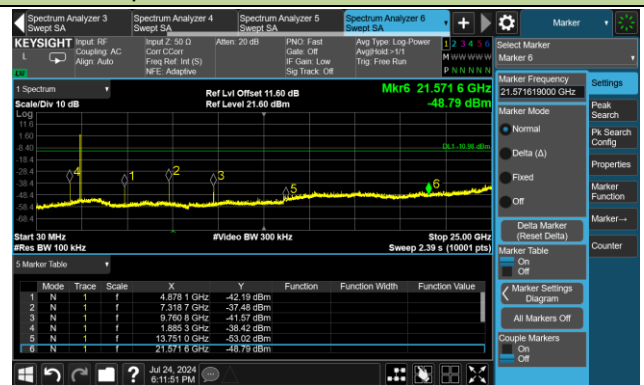


Channel 19 (2440MHz)

100kHz PSD Reference Level

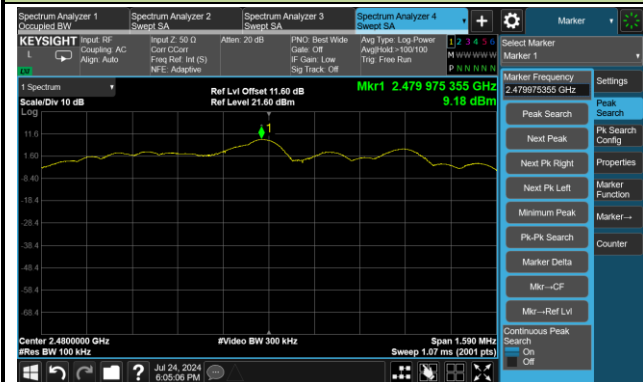


Spurious Emission 30MHz ~ 25GHz

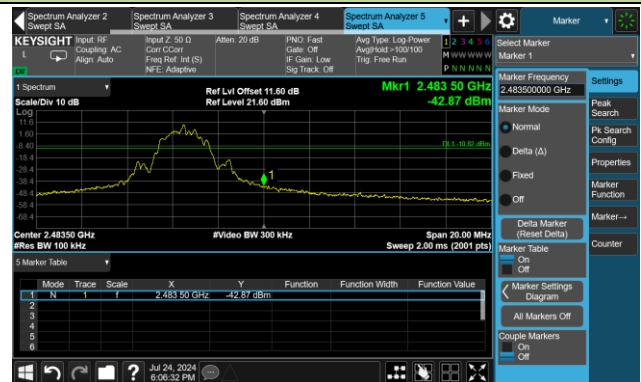


Channel 39 (2480MHz)

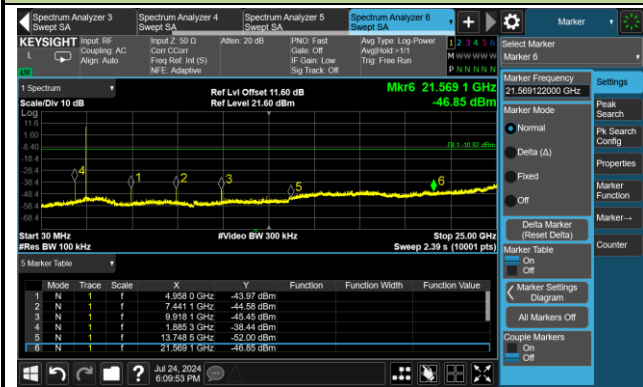
100kHz PSD Reference Level



High Band Edge



Spurious Emission 30MHz ~ 25GHz



A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC1	Test Engineer	Ajin Fan
Test Date	2024-08-03 ~ 2024-08-16	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	4802.900	42.8	4.0	46.8	74.0	-27.2	Peak	Horizontal
	8245.400	38.2	9.9	48.1	74.0	-25.9	Peak	Horizontal
	17921.800	24.5	23.0	47.5	54.0	-6.5	Average	Horizontal
	4802.900	45.7	4.0	49.7	74.0	-24.3	Peak	Vertical
	11699.800	36.8	14.2	51.0	74.0	-23.0	Peak	Vertical
	18000.000	37.5	23.8	61.3	74.0	-12.7	Peak	Vertical
19	4881.100	46.3	3.9	50.2	74.0	-23.8	Peak	Horizontal
	11521.300	36.2	14.7	50.9	74.0	-23.1	Peak	Horizontal
	17976.200	24.5	23.4	47.9	54.0	-6.1	Average	Horizontal
	4879.400	47.4	3.9	51.3	54.0	-2.7	Average	Vertical
	11589.300	24.6	14.5	39.1	54.0	-14.9	Average	Vertical
	17986.000	26.0	23.6	49.6	54.0	-4.4	Average	Vertical
39	4961.000	45.2	4.4	49.6	74.0	-24.4	Peak	Horizontal
	11543.400	26.3	14.7	41.0	54.0	-13.0	Average	Horizontal
	17996.000	26.0	23.8	49.8	54.0	-4.2	Average	Horizontal
	4959.300	41.9	4.4	46.3	54.0	-7.7	Average	Vertical
	4959.300	47.5	4.4	51.9	74.0	-22.1	Peak	Vertical
	11630.100	36.1	14.4	50.5	74.0	-23.5	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	WZ-AC1	Test Engineer	Ajin Fan
Test Date	2024-08-03 ~ 2024-08-16	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.		

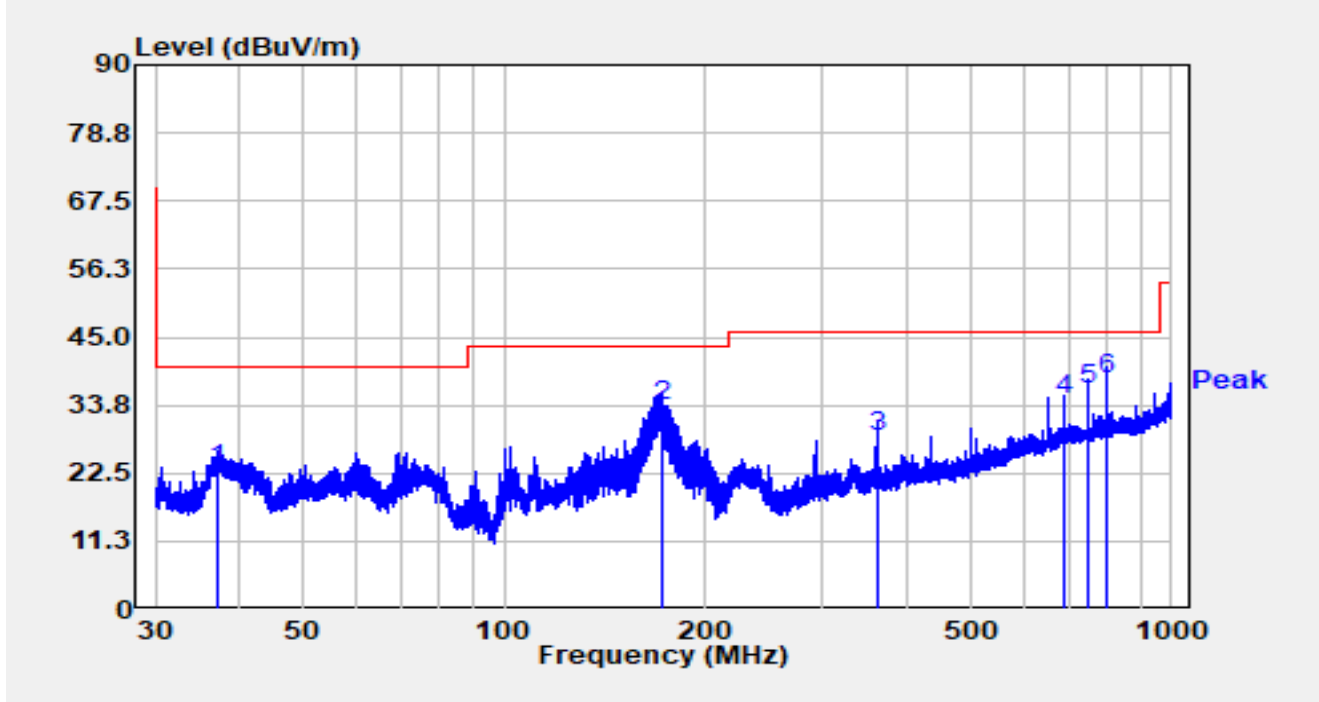
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4802.900	40.7	4.0	44.7	74.0	-29.3	Peak	Horizontal
	11546.800	35.6	14.7	50.3	74.0	-23.7	Peak	Horizontal
	17988.100	26.0	23.7	49.7	54.0	-4.3	Average	Horizontal
	4802.900	43.2	4.0	47.2	74.0	-26.8	Peak	Vertical
	11339.400	35.5	14.6	50.1	74.0	-23.9	Peak	Vertical
	18000.000	26.0	23.8	49.8	54.0	-4.2	Average	Vertical
19	4959.300	44.4	4.4	48.8	74.0	-25.2	Peak	Horizontal
	11868.100	36.6	13.5	50.1	74.0	-23.9	Peak	Horizontal
	17901.400	26.0	22.8	48.8	54.0	-5.2	Average	Horizontal
	4959.300	46.7	4.4	51.1	74.0	-22.9	Peak	Vertical
	11551.900	35.9	14.7	50.6	74.0	-23.4	Peak	Vertical
	18000.000	26.0	23.8	49.8	54.0	-4.2	Average	Vertical
39	4961.000	43.8	4.4	48.2	74.0	-25.8	Peak	Horizontal
	11531.500	34.9	14.7	49.6	74.0	-24.4	Peak	Horizontal
	17986.400	26.0	23.6	49.6	54.0	-4.4	Average	Horizontal
	4961.000	42.5	4.4	46.9	54.0	-7.1	Average	Vertical
	11648.800	35.9	14.3	50.2	74.0	-23.8	Peak	Vertical
	17991.500	26.1	23.7	49.8	54.0	-4.2	Average	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	WZ-AC1	Test Date	2024-08-15
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	VULB 9168_25-1000MHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2440MHz		

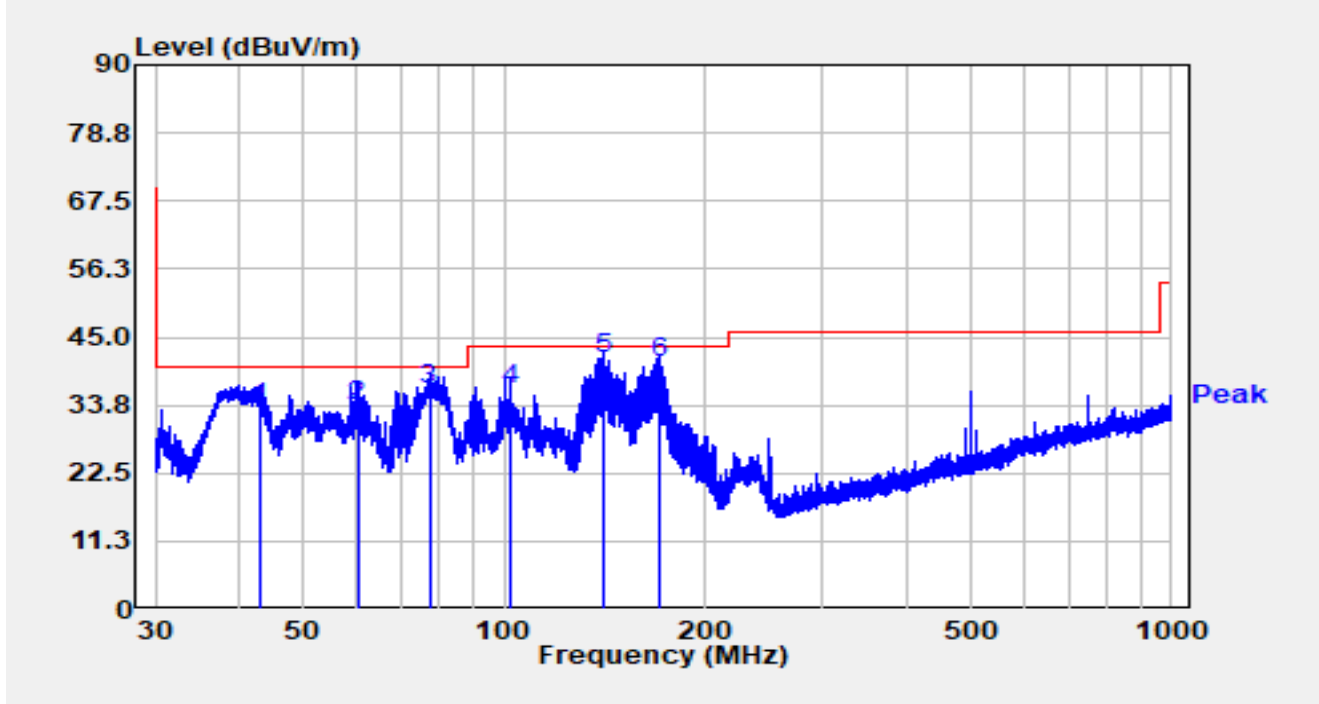


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		37.220	5.40	17.75	23.15	-16.85	40.00	QP
2		171.995	15.40	18.07	33.47	-10.03	43.50	QP
3		362.857	8.40	20.29	28.69	-17.31	46.00	QP
4		688.357	7.40	27.25	34.65	-11.35	46.00	QP
5		750.002	8.00	28.49	36.49	-9.51	46.00	QP
6	*	798.420	8.90	29.30	38.20	-7.80	46.00	QP

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB)-AMP (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-08-15
Test Engineer	Ajin Fan	Temp./Humidity	24.8°C /55.1%
Factor	VULB 9168_25-1000MHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2440MHz		



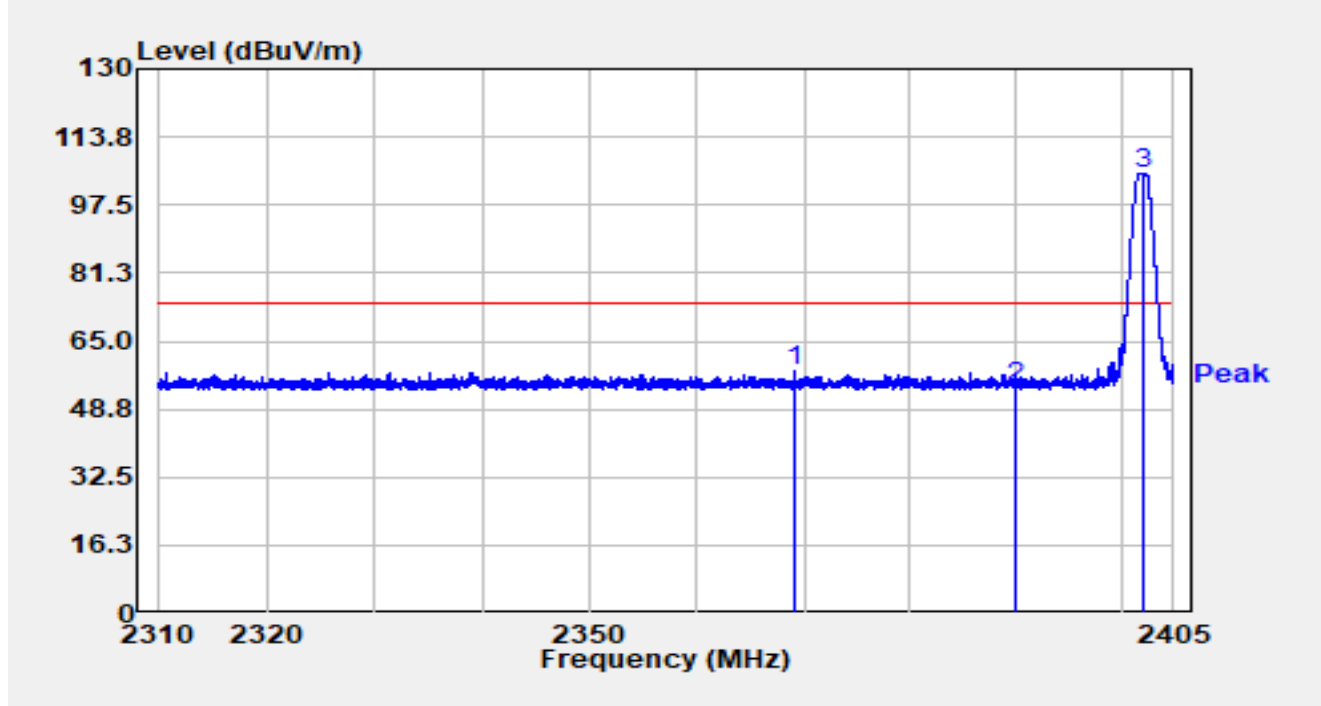
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		42.960	15.00	18.16	33.16	-6.84	40.00	QP
2		60.238	15.30	18.15	33.45	-6.55	40.00	QP
3		77.186	21.10	15.39	36.49	-3.51	40.00	QP
4		101.894	22.30	14.19	36.49	-7.01	43.50	QP
5	*	141.197	23.50	17.84	41.34	-2.16	43.50	QP
6		170.225	22.50	18.19	40.69	-2.81	43.50	QP

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB)-AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

A.7 Radiated Restricted Band Edge Test Result

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2402MHz		

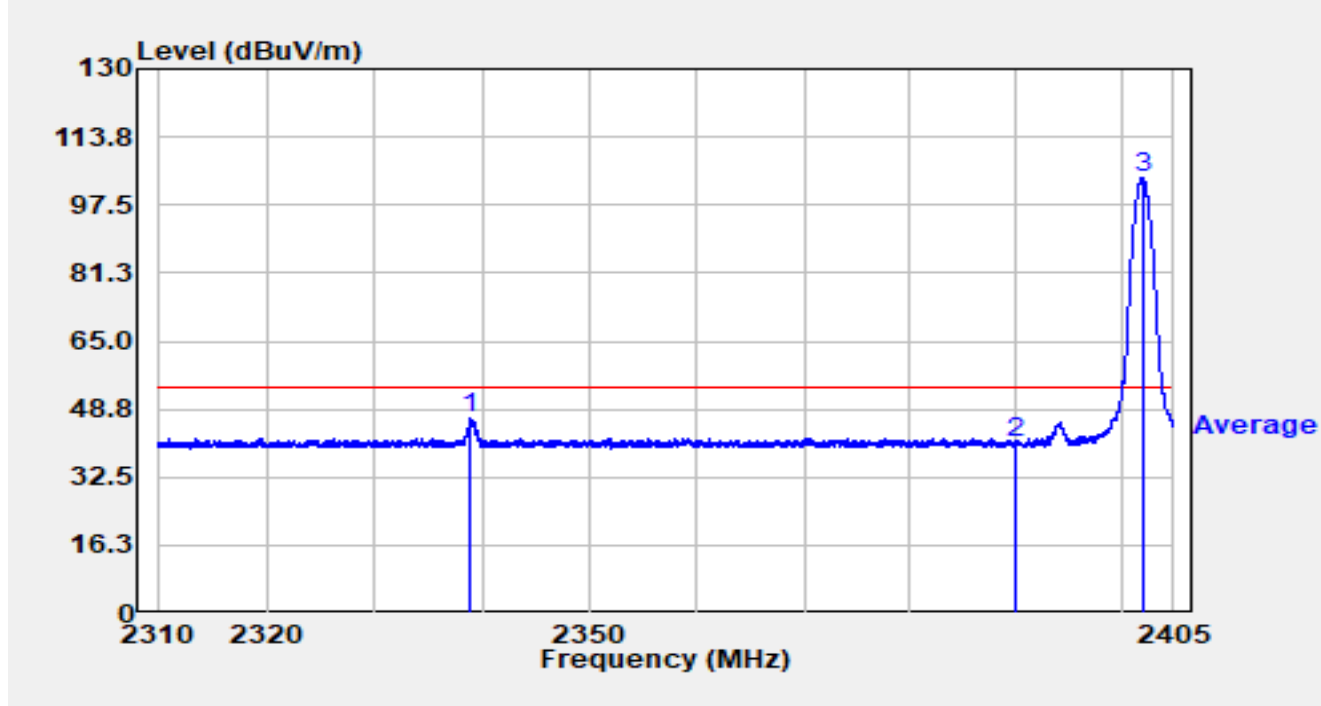


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2369.213	25.63	32.06	57.70	-16.30	74.00	Peak
2		2390.000	22.12	32.04	54.16	-19.84	74.00	Peak
3		2402.036	73.19	32.00	105.20	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2402MHz		

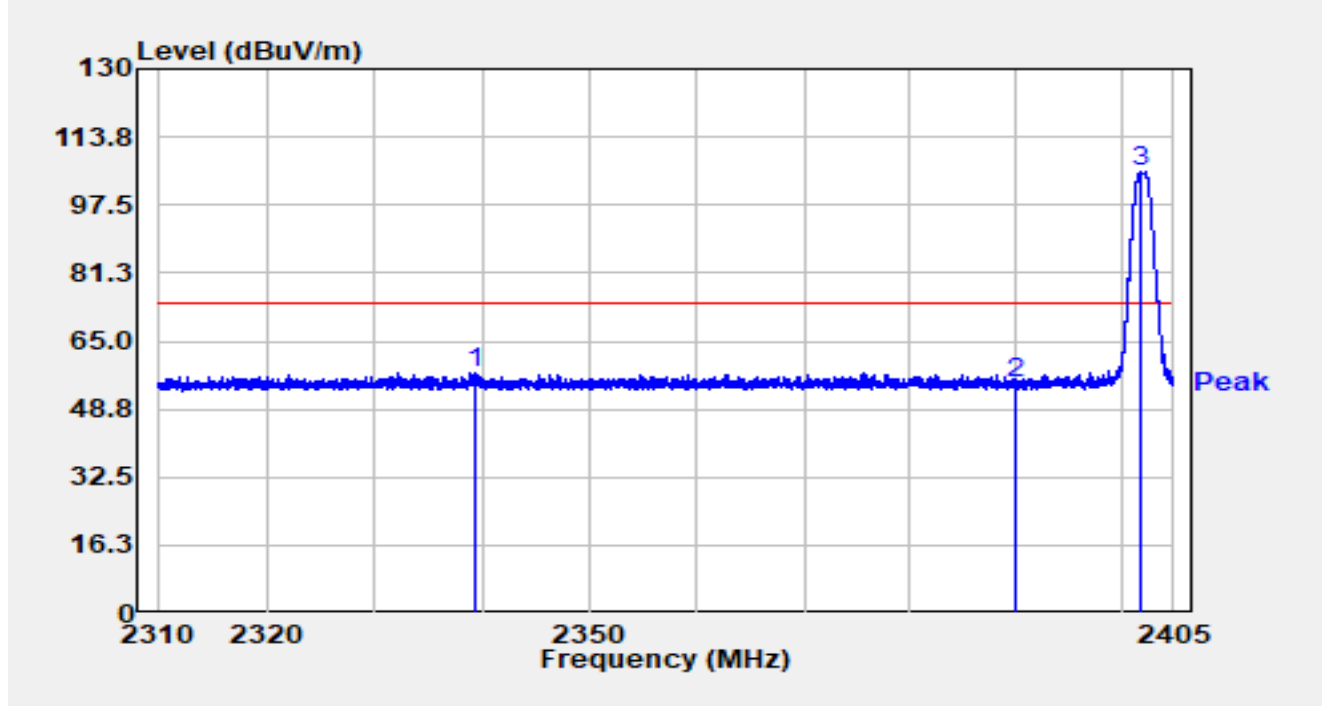


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2338.785	14.49	32.18	46.67	-7.33	54.00	Average
2		2390.000	8.84	32.04	40.88	-13.12	54.00	Average
3		2402.027	72.24	32.00	104.24	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2402MHz		

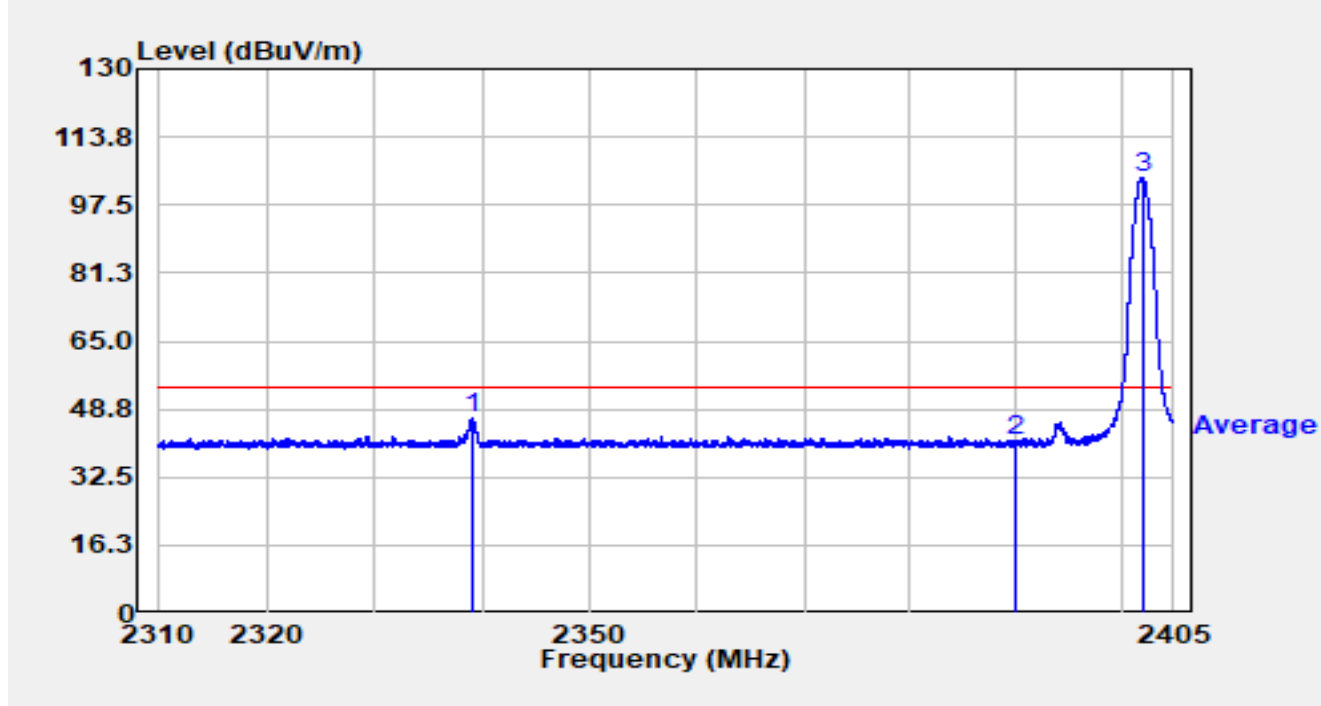


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2339.203	25.20	32.18	57.38	-16.62	74.00	Peak
2		2390.000	23.15	32.04	55.19	-18.81	74.00	Peak
3		2401.780	73.26	32.00	105.26	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2402MHz		

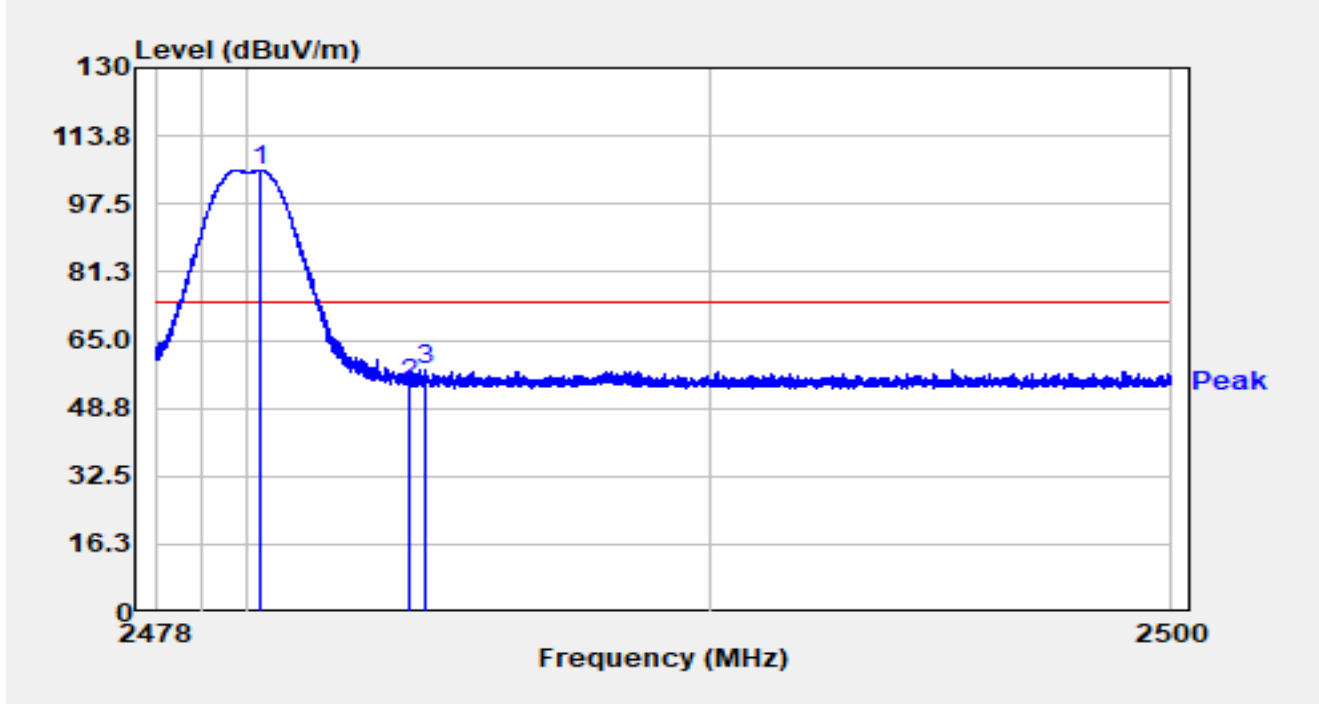


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2338.937	14.50	32.18	46.68	-7.32	54.00	Average
2		2390.000	8.94	32.04	40.99	-13.01	54.00	Average
3		2402.017	72.12	32.00	104.12	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2480MHz		

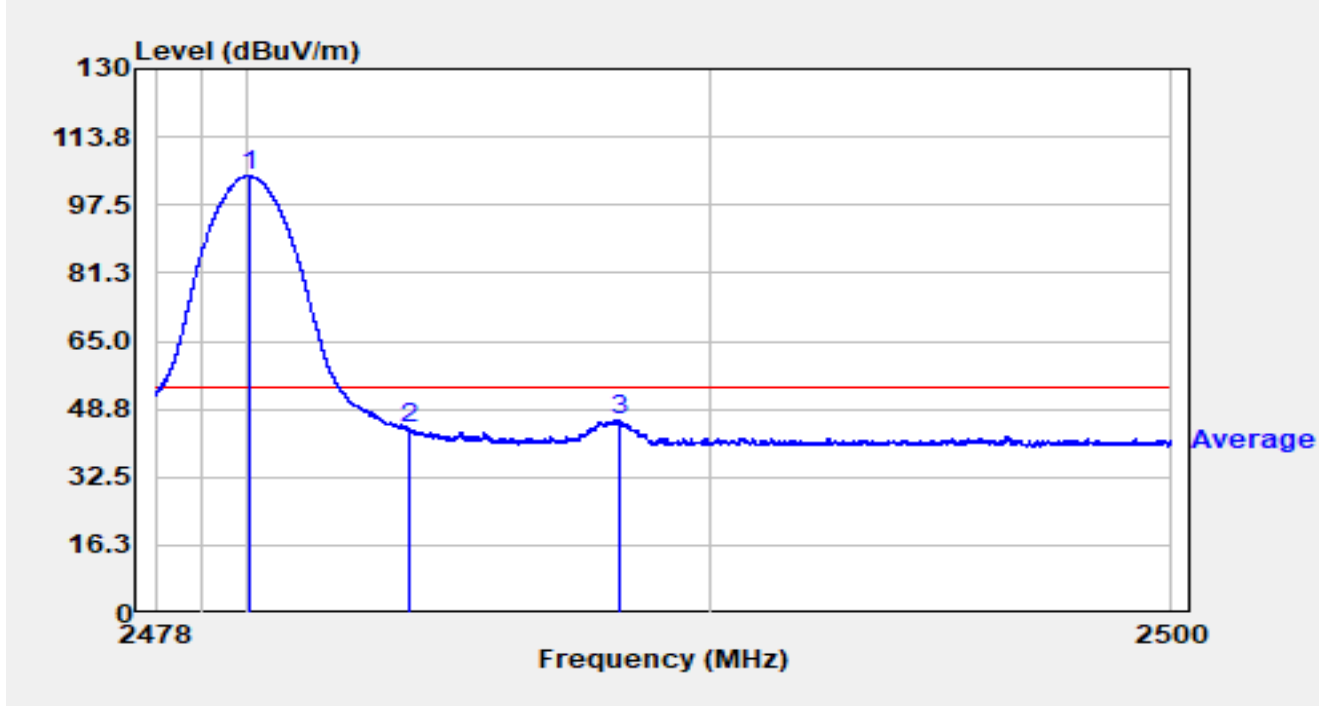


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.235	73.68	31.94	105.63	N/A	N/A	Peak
2		2483.500	22.53	31.95	54.48	-19.52	74.00	Peak
3	*	2483.826	26.03	31.95	57.99	-16.01	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2480MHz		

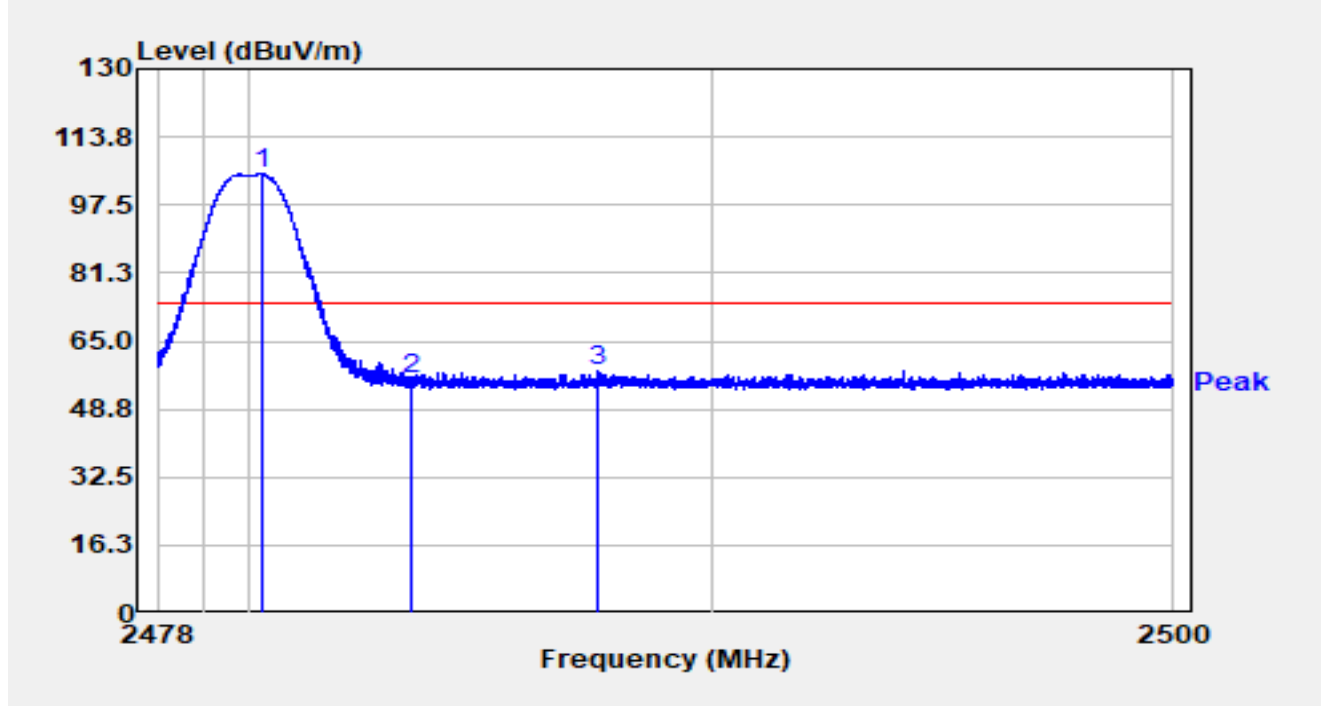


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.004	72.43	31.94	104.38	N/A	N/A	Average
2		2483.500	12.04	31.95	43.99	-10.01	54.00	Average
3	*	2488.019	14.40	31.96	46.36	-7.64	54.00	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2480MHz		

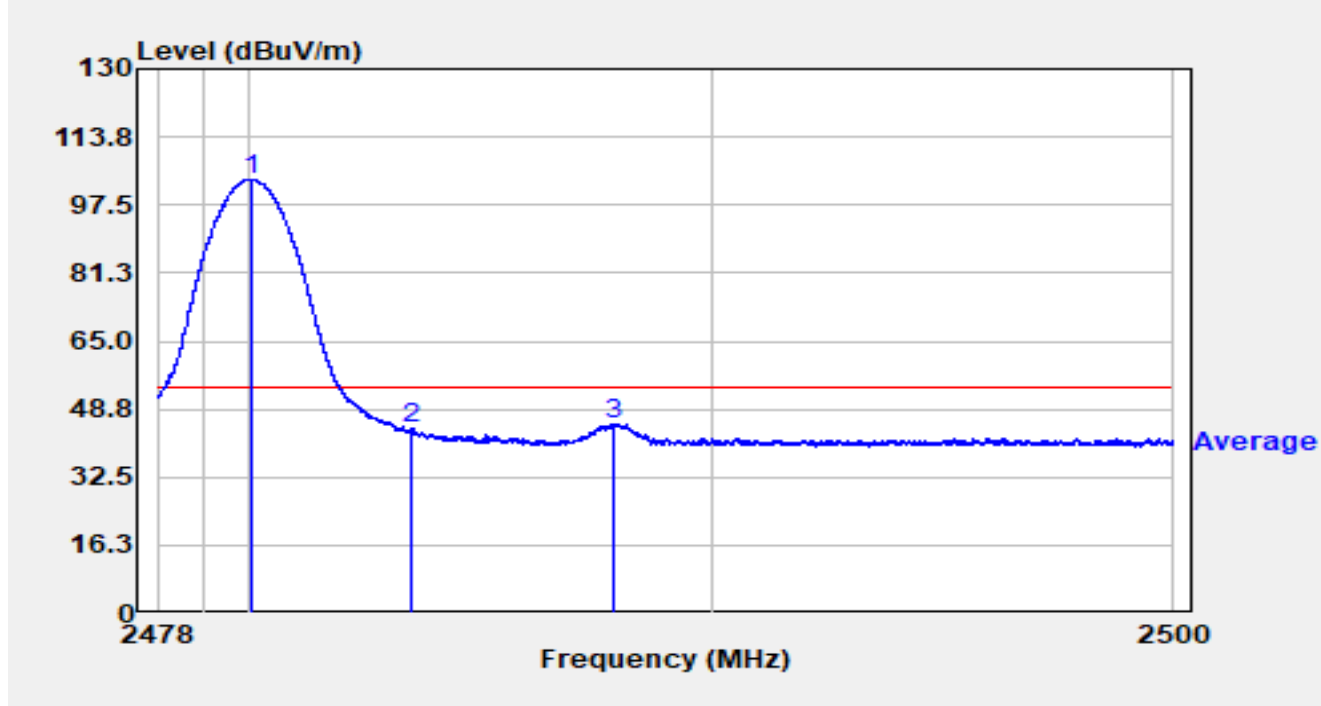


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.248	72.98	31.94	104.92	N/A	N/A	Peak
2		2483.500	23.89	31.95	55.84	-18.16	74.00	Peak
3	*	2487.528	25.77	31.96	57.72	-16.28	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 1M at 2480MHz		

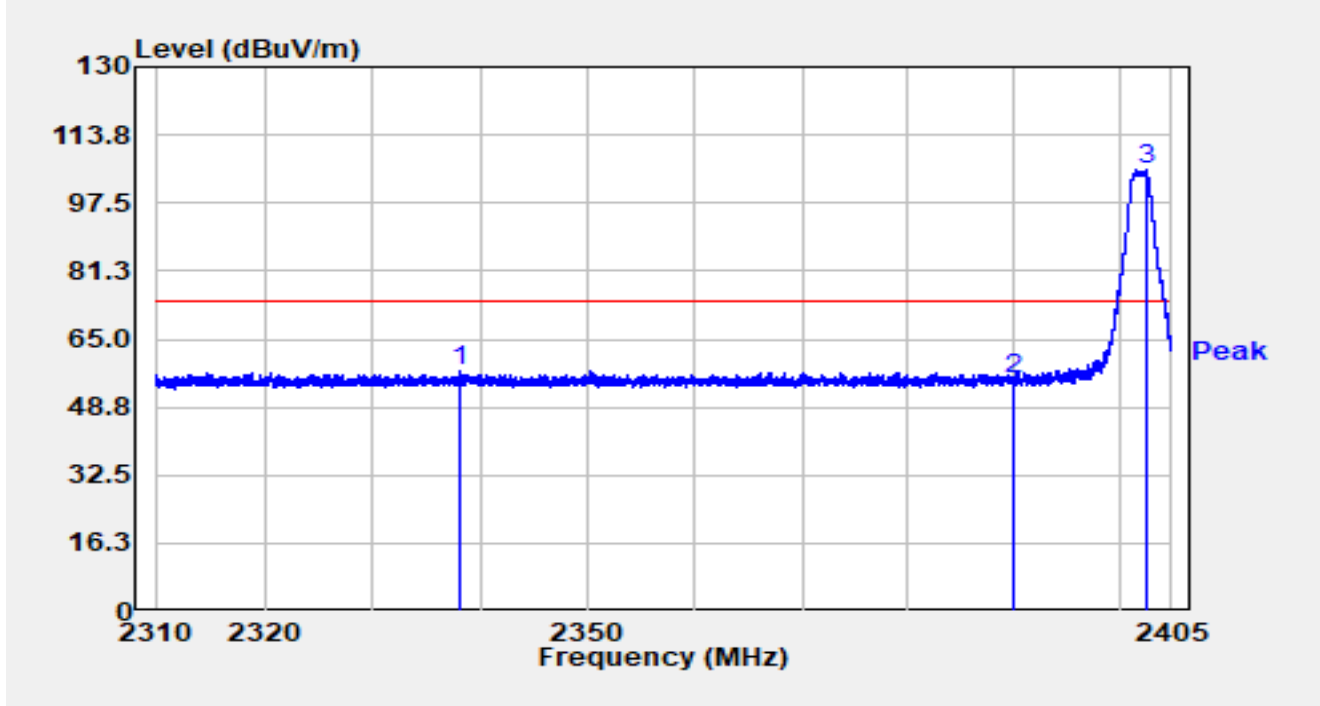


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.033	71.63	31.94	103.57	N/A	N/A	Average
2		2483.500	12.07	31.95	44.02	-9.98	54.00	Average
3	*	2487.843	13.41	31.96	45.37	-8.63	54.00	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2402MHz		

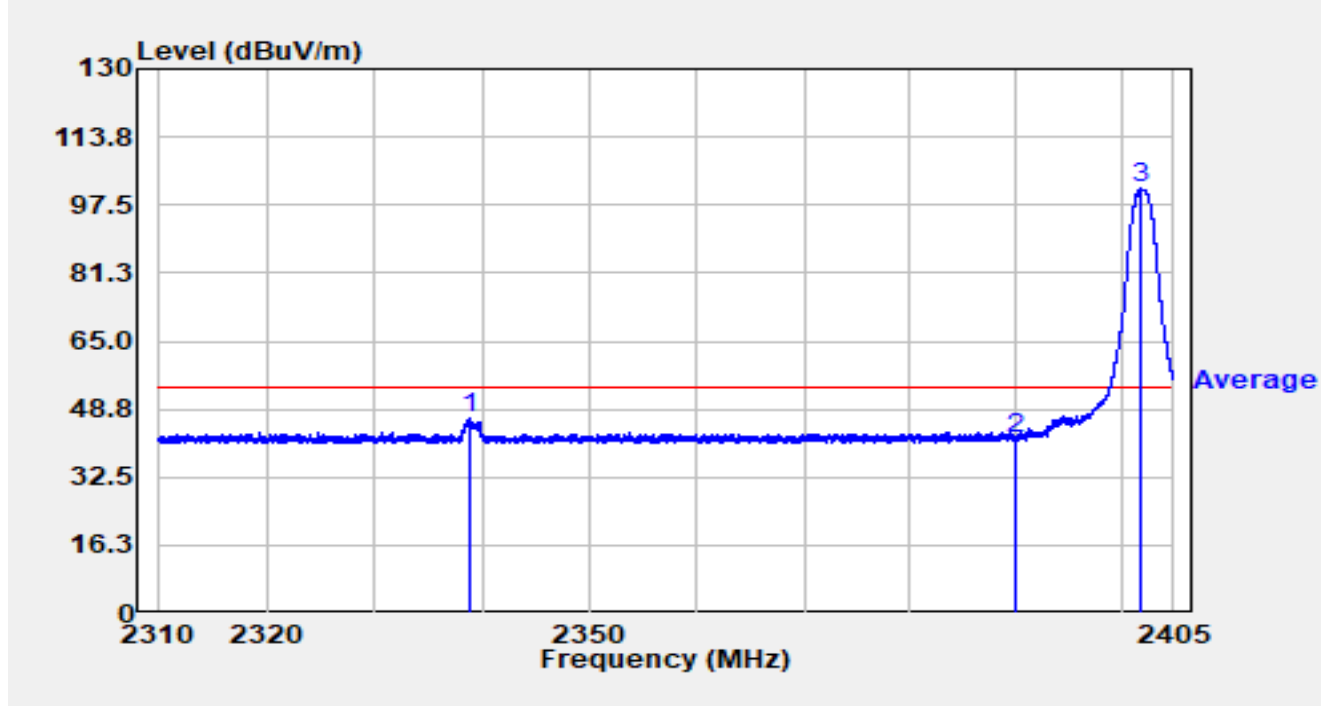


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2338.111	25.32	32.18	57.51	-16.49	74.00	Peak
2		2390.000	23.20	32.04	55.24	-18.76	74.00	Peak
3		2402.577	73.41	32.00	105.42	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2402MHz		

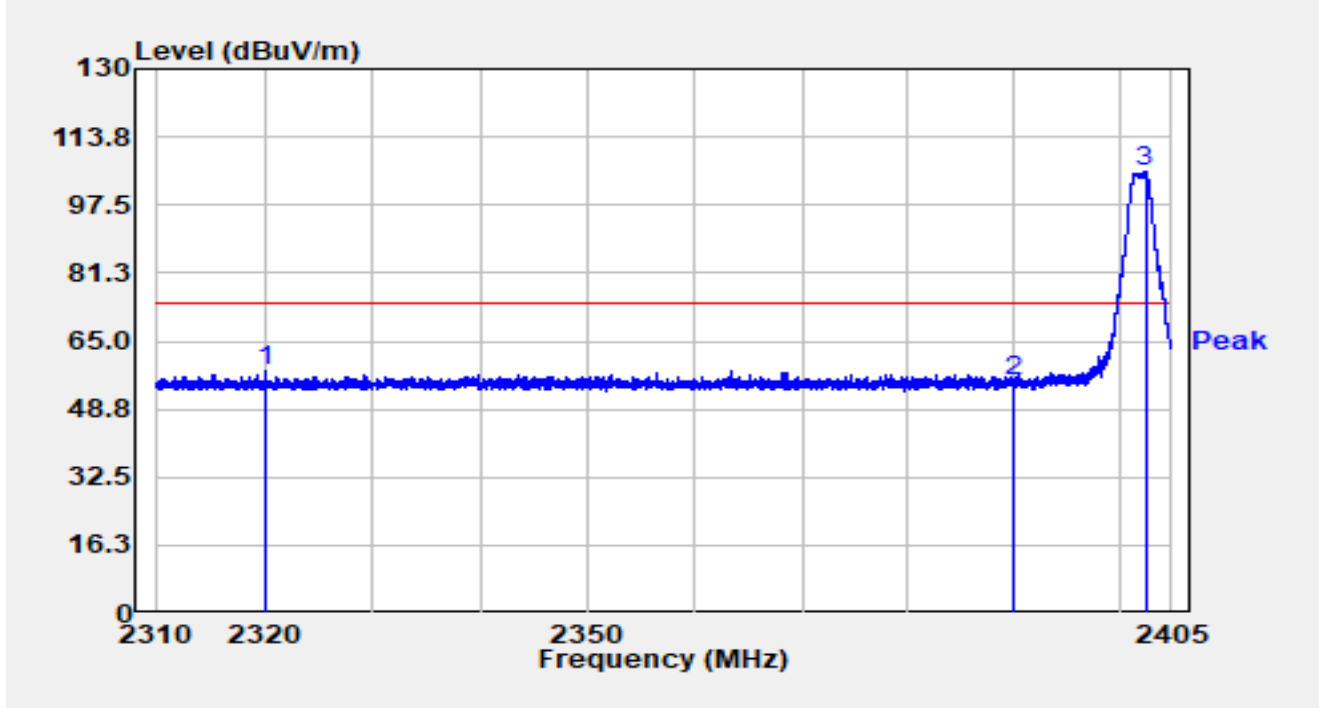


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2338.690	14.51	32.18	46.69	-7.31	54.00	Average
2		2390.000	9.67	32.04	41.71	-12.29	54.00	Average
3		2401.922	69.51	32.00	101.51	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2402MHz		

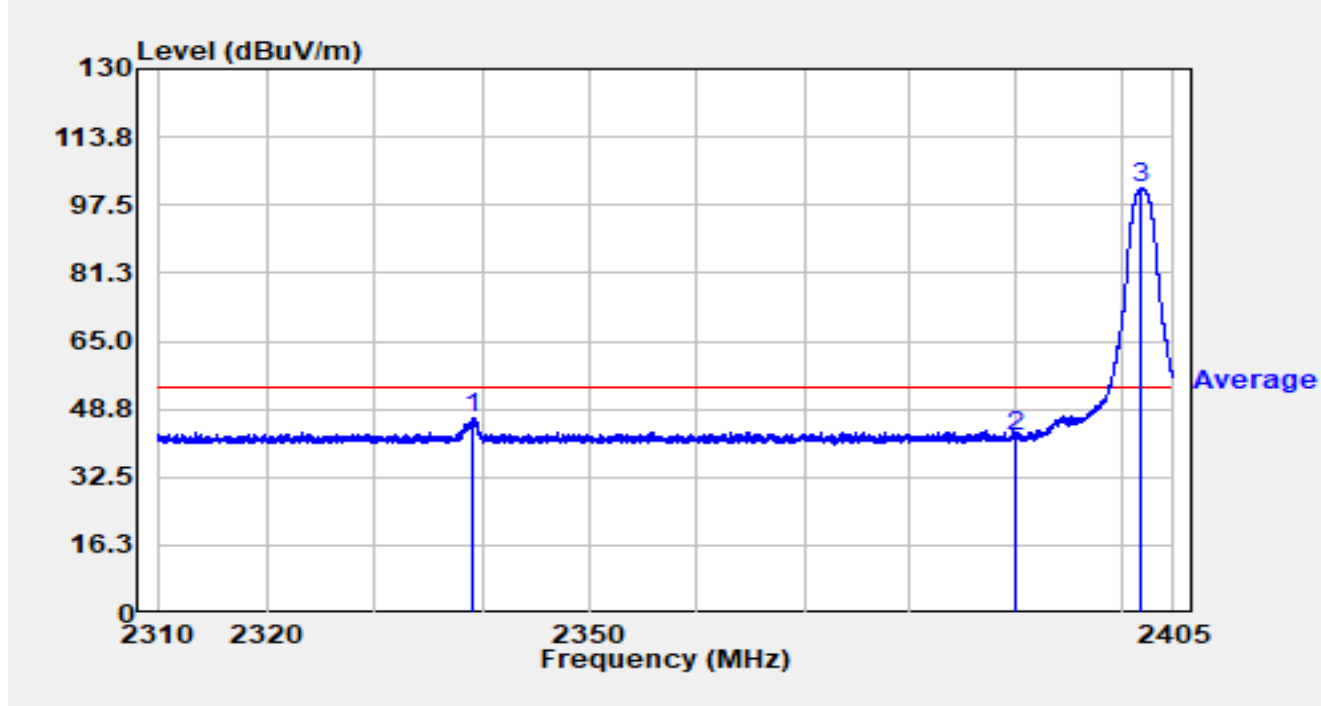


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2320.146	25.54	32.21	57.75	-16.25	74.00	Peak
2		2390.000	23.33	32.04	55.37	-18.63	74.00	Peak
3		2402.501	73.25	32.00	105.25	N/A	N/A	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2402MHz		

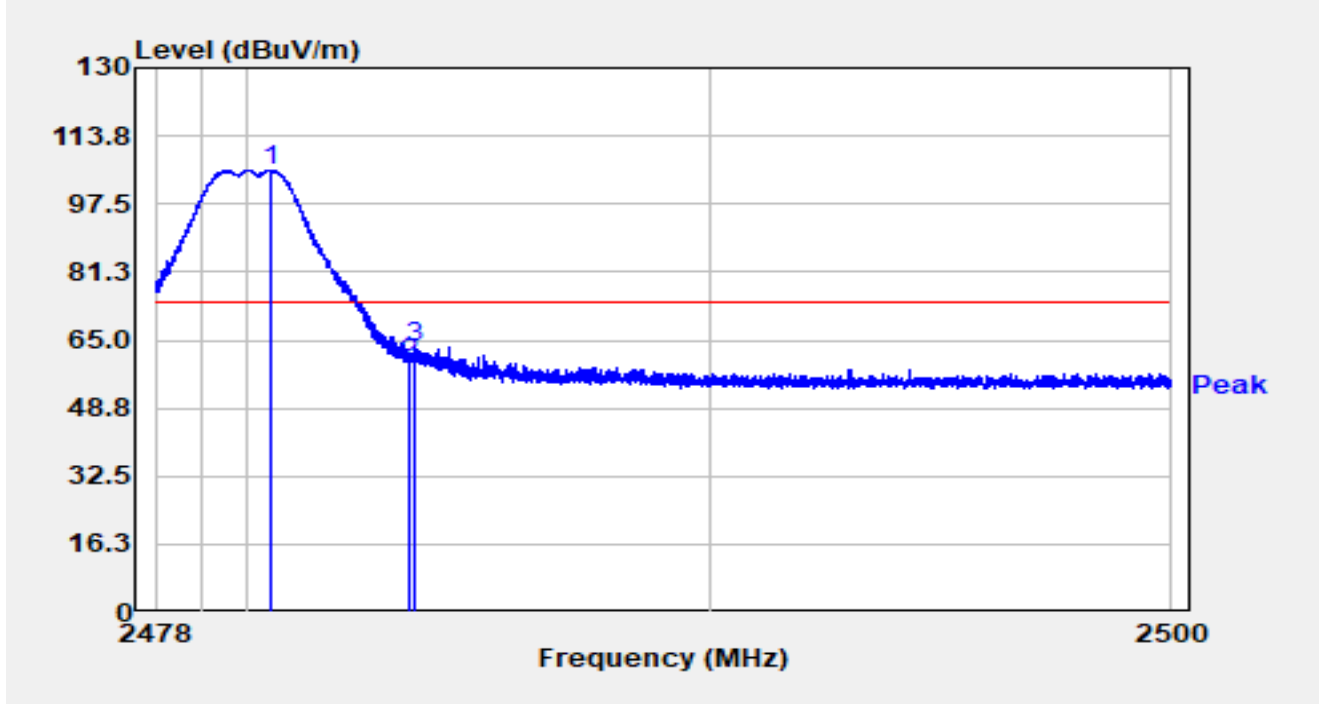


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	2339.022	14.54	32.18	46.72	-7.28	54.00	Average
2		2390.000	10.17	32.04	42.21	-11.79	54.00	Average
3		2401.799	69.63	32.00	101.64	N/A	N/A	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (3) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2480MHz		

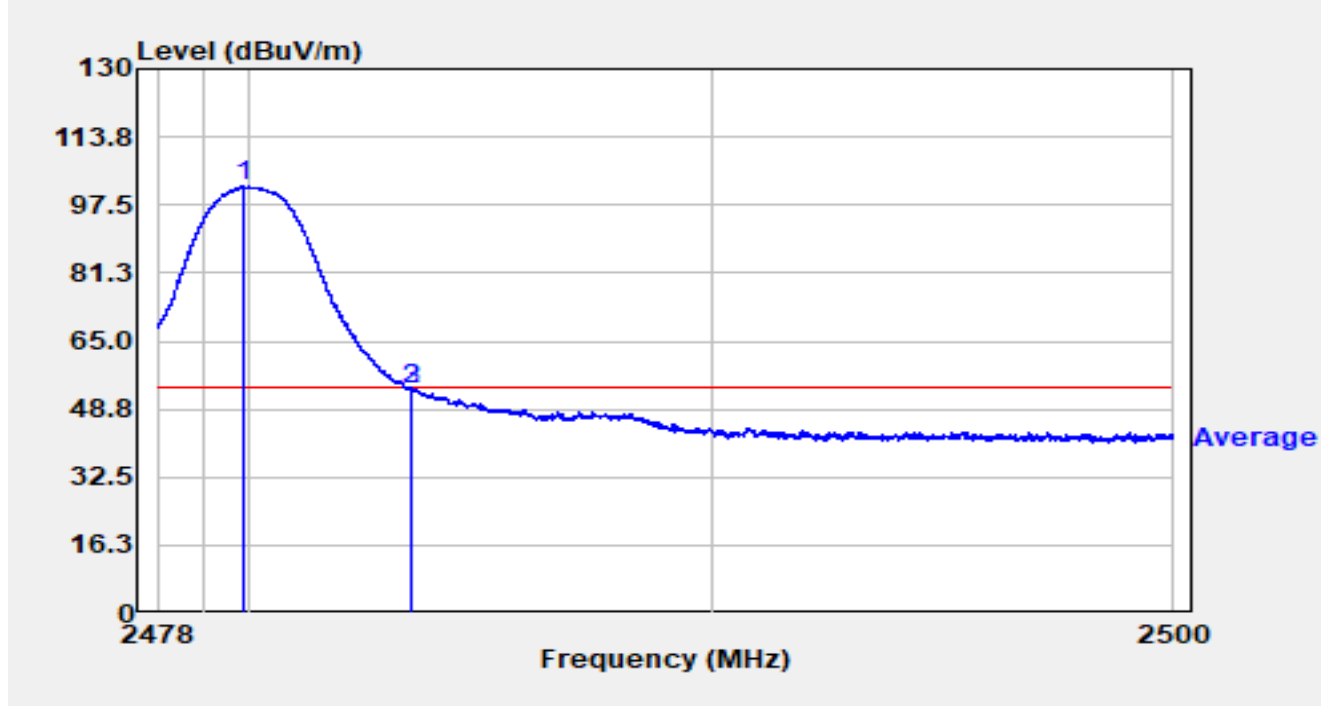


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.482	73.71	31.94	105.65	N/A	N/A	Peak
2		2483.500	27.42	31.95	59.37	-14.63	74.00	Peak
3	*	2483.577	31.53	31.95	63.48	-10.52	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Horizontal
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2480MHz		

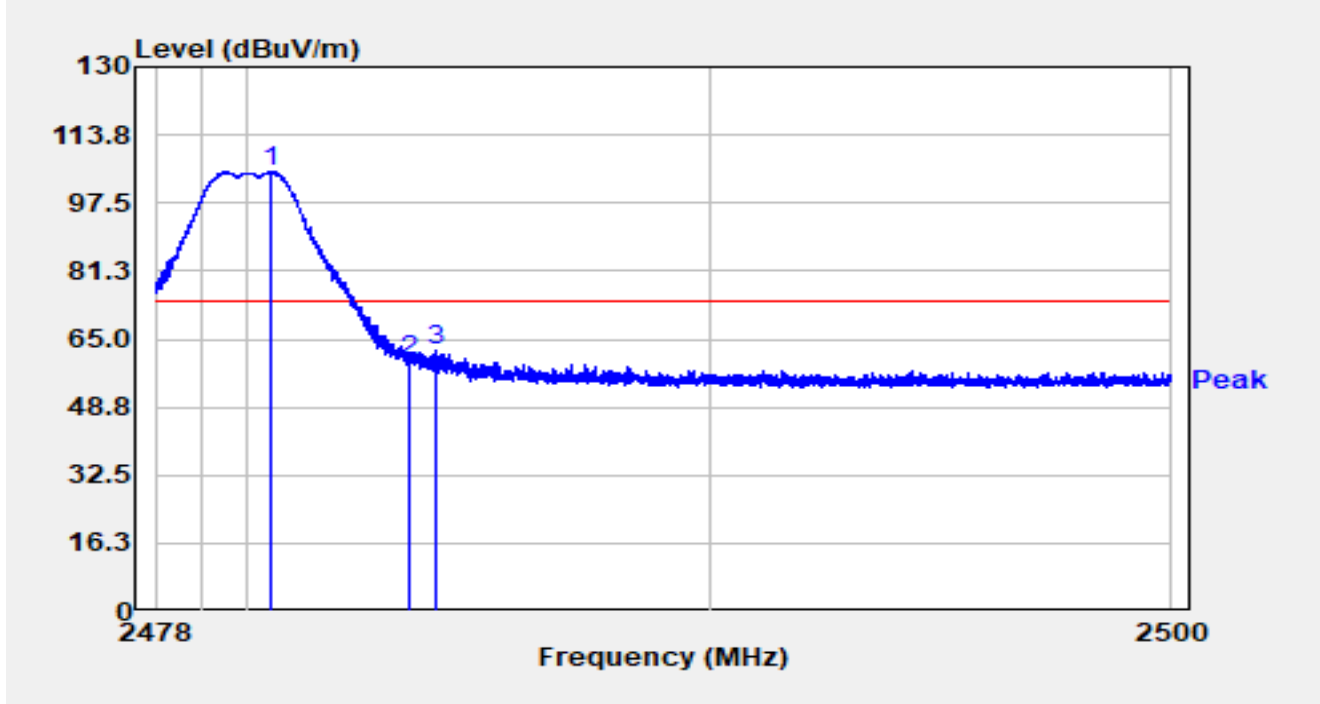


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.870	69.98	31.94	101.92	N/A	N/A	Average
2		2483.500	21.46	31.95	53.41	-0.59	54.00	Average
3	*	2483.507	21.71	31.95	53.66	-0.34	54.00	Average

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2480MHz		

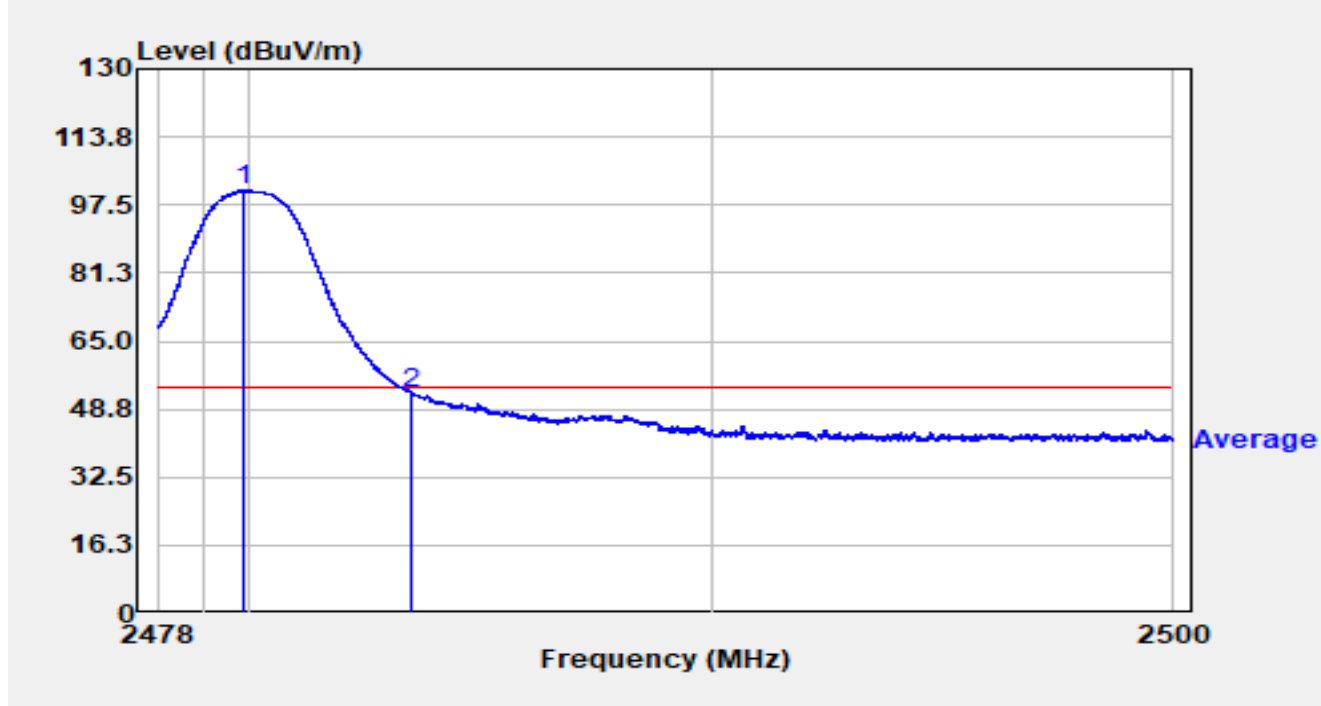


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2480.499	72.99	31.94	104.94	N/A	N/A	Peak
2		2483.500	28.07	31.95	60.02	-13.98	74.00	Peak
3	*	2484.054	30.40	31.95	62.35	-11.65	74.00	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- 4: The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

Site	WZ-AC1	Test Date	2024-08-16
Test Engineer	Ajin Fan	Temp./Humidity	26.4°C /55.3%
Factor	BBHA 9120D_1167_1-18GHz	Polarity	Vertical
EUT	Access Point Transceiver	Test Voltage	Powered by PoE Switch
Test Mode	Transmit by BLE 2M at 2480MHz		



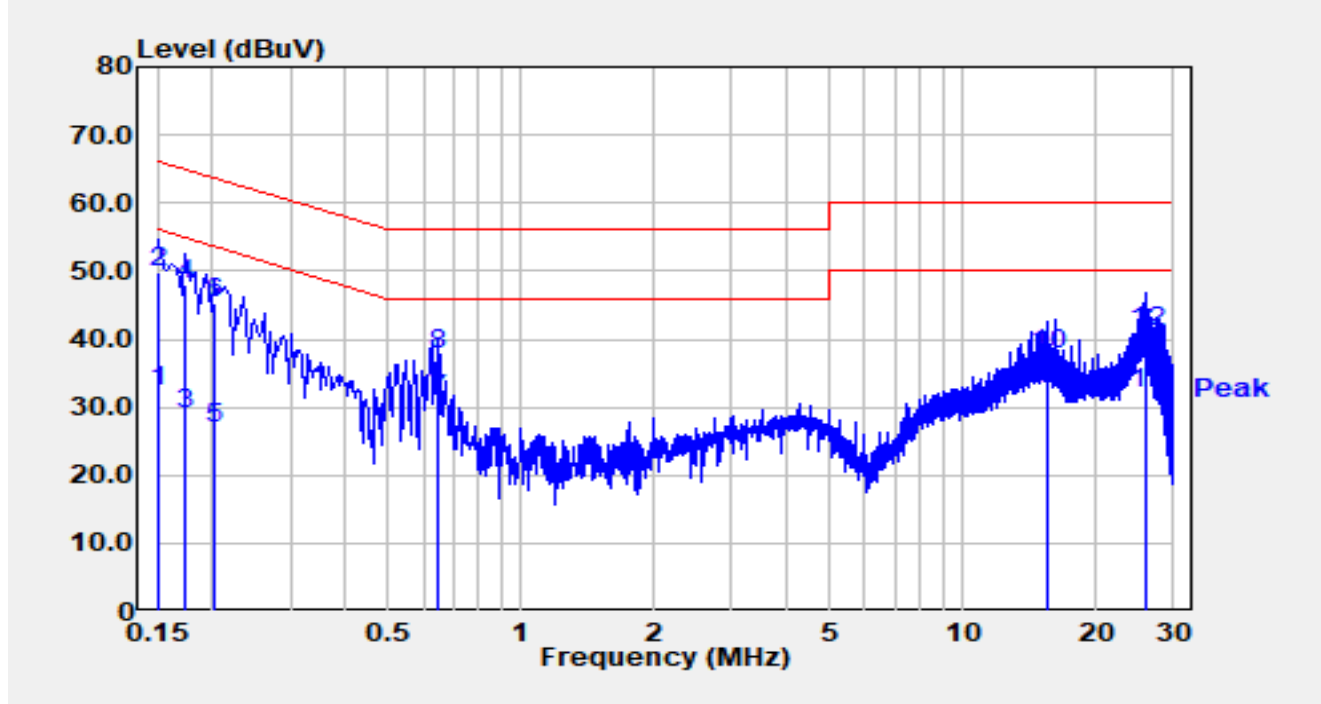
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		2479.870	69.17	31.94	101.11	N/A	N/A	Average
2	*	2483.500	20.72	31.95	52.67	-1.33	54.00	Average

Notes:

- "*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).
- The point (1) is Wi-Fi fundamental frequency that is not evaluated in this standard.

A.8 AC Conducted Emissions Test Result

Site	WZ-SR2	Test Date	2024-09-09
Test Engineer	Linda Wei	Temp./Humidity	23.2°C/60.1%
Factor	ENV216_101683_L1_Filter Off_E	Polarity	Line1
EUT	Access Point Transceiver	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 2M at 2480MHz		



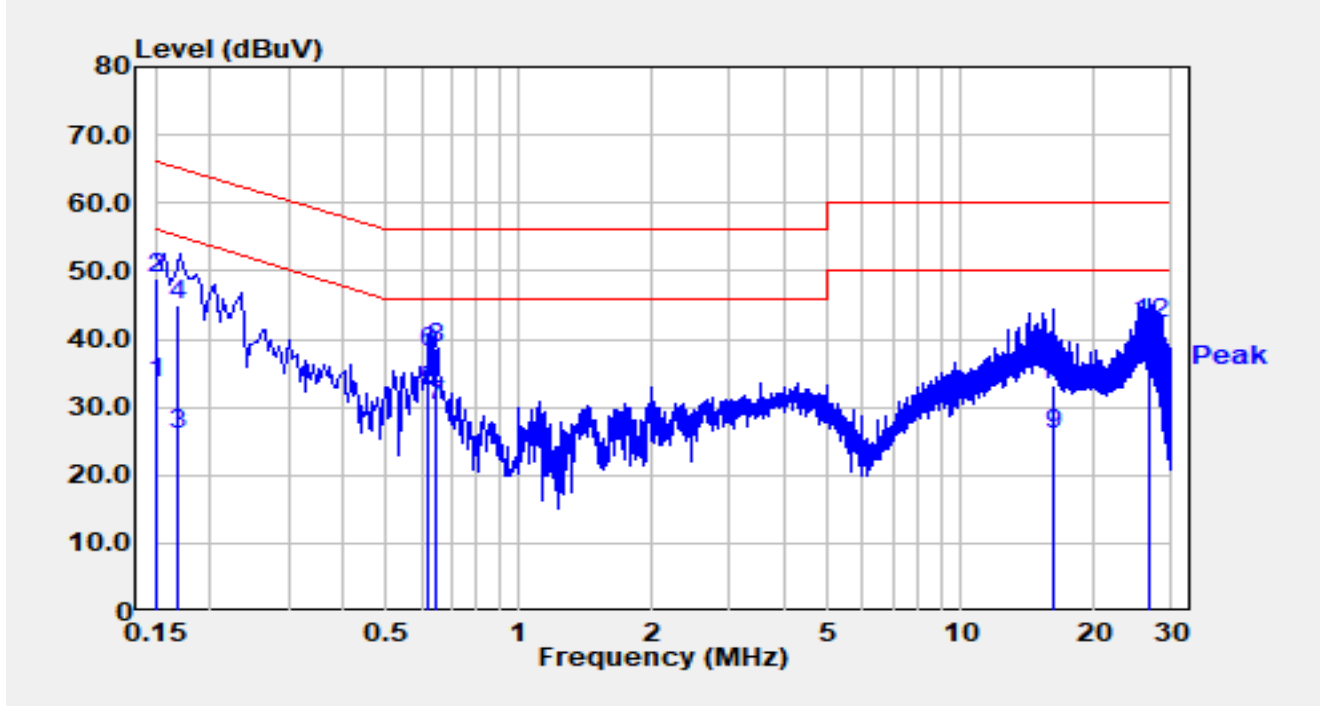
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.150	22.40	9.79	32.19	-23.81	56.00	Average
2		0.150	40.00	9.79	49.79	-16.21	66.00	QP
3		0.173	19.30	9.78	29.08	-25.74	54.82	Average
4		0.173	38.20	9.78	47.98	-16.84	64.82	QP
5		0.201	17.00	9.79	26.79	-26.78	53.57	Average
6		0.201	35.50	9.79	45.29	-18.28	63.57	QP
7	*	0.649	21.10	10.00	31.10	-14.90	46.00	Average
8		0.649	27.80	10.00	37.80	-18.20	56.00	QP
9		15.620	21.40	11.27	32.67	-17.33	50.00	Average
10		15.620	26.60	11.27	37.87	-22.13	60.00	QP
11		26.000	20.50	11.48	31.98	-18.02	50.00	Average
12		26.000	29.60	11.48	41.08	-18.92	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.

2. $C.F (dB) = LISN \text{ Factor } (dB) + \text{Cable Loss } (dB)$.
3. $\text{Measurement } (dB\mu V) = \text{Reading } (dB\mu V) + C.F (dB)$.

Site	WZ-SR2	Test Date	2024-09-09
Test Engineer	Linda Wei	Temp./Humidity	23.2°C/60.1%
Factor	ENV216_101683_N_Filter Off_E	Polarity	Neutral
EUT	Access Point Transceiver	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by BLE 2M at 2480MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.150	23.90	9.75	33.65	-22.35	56.00	Average
2		0.150	39.10	9.75	48.85	-17.15	66.00	QP
3		0.169	16.30	9.76	26.06	-28.95	55.01	Average
4		0.169	35.20	9.76	44.96	-20.05	65.01	QP
5		0.625	22.20	9.98	32.18	-13.82	46.00	Average
6		0.625	28.10	9.98	38.08	-17.92	56.00	QP
7		0.645	20.10	9.99	30.09	-15.91	46.00	Average
8		0.645	28.60	9.99	38.59	-17.41	56.00	QP
9		16.220	14.70	11.35	26.05	-23.95	50.00	Average
10		16.220	21.80	11.35	33.15	-26.85	60.00	QP
11	*	26.750	25.70	11.62	37.32	-12.68	50.00	Average
12		26.750	30.60	11.62	42.22	-17.78	60.00	QP

Notes:

1. " * ", means this data is the worst emission level.

2. $C.F (dB) = LISN \text{ Factor } (dB) + \text{Cable Loss } (dB)$.
3. $\text{Measurement } (dB\mu V) = \text{Reading } (dB\mu V) + C.F (dB)$.

Appendix B - Test Setup Photograph

Refer to “2407RSU009-UT” file.

Appendix C - EUT Photograph

Refer to “2407RSU009-UE” file.

The End
