



RF MEASUREMENT REPORT

FCC ID: Q9DAPIN0735A

Applicant: Hewlett Packard Enterprise Company

Product: ACCESS POINT

Model No.: APIN0735A

Trademark:  , 

FCC Classification: Unlicensed National Information Infrastructure (NII)

FCC Rule Part(s): Part 15 Subpart E (Section 15.407)

Result: Complies

Received Date: 2024-09-26

Test Date: 2024-10-25 ~ 2024-12-04

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 KDB789033 and KDB 291074. 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
2409RSU050-U5	V01	Initial Report	2025-03-28	Valid

Note 1: The APIN0735A is a variation on the existing APIN0735. The APIN0735 is currently FCC certified under FCC ID: Q9DAPIN0735.

The APIN0735A differs from the APIN0735 in the following ways:

Part substitution for 5G and 6G passive filter

Note 2: Some spot check was done and all other test data were referenced from the original report.

Test Description	Remark
26dB Bandwidth	Spot Check
6dB Bandwidth	Spot Check
Maximum Conducted Output Power	Full Test
Frequency Stability	Spot Check
Peak Power Spectral Density	Spot Check
Dynamic Frequency Selection (DFS)	Spot Check
Undesirable Emissions	Spot Check
General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Spot Check
AC Conducted Emissions 150kHz - 30MHz	Full Test

CONTENTS

Description	Page
1. General Information	6
1.1. Applicant	6
1.2. Manufacturer	6
1.3. Testing Facility	6
1.4. Product Information.....	7
1.5. Radio Specification under Test	7
1.6. Working Frequencies	8
1.7. Description of Antenna RF Port	9
1.8. Antenna Details.....	10
2. Test Configuration	11
2.1. Test Mode.....	11
2.2. Test System Connection Diagram.....	12
2.3. Test Software	12
2.4. Applied Standards.....	13
2.5. Test Environment Condition	13
3. Antenna Requirements	14
4. Measuring Instrument	15
5. Decision Rules and Measurement Uncertainty	16
5.1. Decision Rules	16
5.2. Measurement Uncertainty	16
6. Test Result.....	17
6.1. Summary	17
6.2. 26dB & 99% Bandwidth Measurement	18
6.2.1. Test Limit	18
6.2.2. Test Procedure	18
6.2.3. Test Setting	18
6.2.4. Test Setup	18
6.2.5. Test Result	19
6.3. 6dB Bandwidth Measurement.....	20
6.3.1. Test Limit	20
6.3.2. Test Procedure	20
6.3.3. Test Setting	20
6.3.4. Test Setup	20
6.3.5. Test Result	20
6.4. Output Power Measurement	21

6.4.1.	Test Limit	21
6.4.2.	Test Procedure	21
6.4.3.	Test Setting	21
6.4.4.	Test Setup	21
6.4.5.	Test Result	21
6.5.	Power Spectral Density Measurement	22
6.5.1.	Test Limit	22
6.5.2.	Test Procedure	22
6.5.3.	Test Setting	22
6.5.4.	Test Setup	22
6.5.5.	Test Result	22
6.6.	Frequency Stability Measurement	23
6.6.1.	Test Limit	23
6.6.2.	Test Procedure	23
6.6.3.	Test Setup	23
6.6.4.	Test Result	24
6.7.	Radiated Spurious Emission Measurement.....	25
6.7.1.	Test Limit	25
6.7.2.	Test Procedure	25
6.7.3.	Test Setting	26
6.7.4.	Test Setup	28
6.7.5.	Test Result	29
6.8.	Radiated Restricted Band Edge Measurement	30
6.8.1.	Test Limit	30
6.8.2.	Test Procedure	30
6.8.3.	Test Setting	30
6.8.4.	Test Setup	32
6.8.5.	Test Result	32
6.9.	AC Conducted Emissions Measurement	33
6.9.1.	Test Limit	33
6.9.2.	Test Setup	33
6.9.3.	Test Result	33
Appendix A	- Test Result.....	34
A.1	Duty Cycle Test Result.....	34
A.2	26dB & 99% Bandwidth Test Result	35
A.3	6dB Bandwidth Test Result	36
A.4	Output Power Test Result	37
A.5	Power Spectral Density Test Result.....	38
A.6	Frequency Stability Test Result.....	39

A.7	Radiated Spurious Emission Test Result.....	40
A.8	Radiated Restricted Band Edge Test Result.....	48
A.9	AC Conducted Emissions Test Result	57
Appendix B - Test Setup Photograph		61
Appendix C - EUT Photograph		62

1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, 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 Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People’s Republic of 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: 3261 FCC: 291082, TW3261
ISED: TW3261	

1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0735A
Serial No.	CNSCM52023
Software Version	V1.6
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	BLE only
ZigBee Specification	802.15.4
GNSS Specification	GPS, Galileo
Antenna Information	Refer to Section 1.8
Power Type	AC Adapter Input or PoE Input
Operating Environment	Indoor Use
Remark: 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. 2. The co-location test data was shown in report "2311RSU031-U9".	

1.5. Radio Specification under Test

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20/be-EHT20: 5845MHz, 5865MHz, 5885MHz For 802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40: 5835MHz, 5875MHz For 802.11ac-VHT80/ax-HE80/be-EHT80: 5855MHz For 802.11ac-VHT160/ax-HE160/be-EHT160: 5815MHz		
Type of Modulation	802.11a/n/ac: OFDM 802.11ax/be: OFDMA		
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 1732Mbps 802.11ax: up to 2402Mbps 802.11be: up to 2882Mbps		
Support RU	☒ Full RU	☐ Partial RU	☐ Single RU
			☐ Multi RU
			☐ Channel Puncturing

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
169	5845 MHz	173	5865 MHz	177	5885 MHz

802.11n-HT40/ac-VHT40/ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
167	5835 MHz	175	5875 MHz	--	--

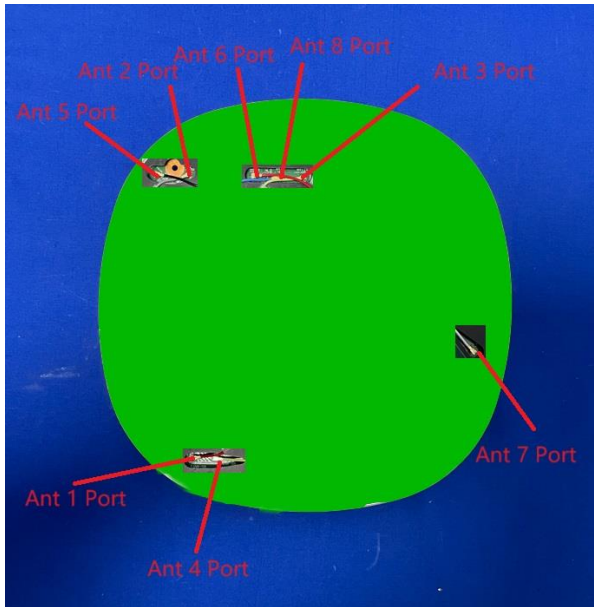
802.11ac-VHT80/ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
171	5855 MHz	--	--	--	--

802.11ac-VHT160/ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
163	5815 MHz	--	--	--	--

1.7. Description of Antenna RF Port

				
Antenna Port	RF Spec.			
	Wi-Fi 2.4G	Wi-Fi 5G	Wi-Fi 6G	BLE/ZigBee
Ant 1	--	--	● (Radio 2)	--
Ant 4	--	--	● (Radio 2)	--
Ant 2	● (Radio 0)	● (Radio 1)	--	--
Ant 5	● (Radio 0)	● (Radio 1)	--	--
Ant 3	--	--	--	● (Core 1)
Ant 6	--	--	--	● (Core 0)
Ant 8	--	--	--	● (Core 1)
Ant 7	GNSS			

1.8. Antenna Details

Antenna Type	Frequency Band (GHz)	Tx Paths	Directional Gain (dBi)	
			Uncorrelated	Correlated
Wi-Fi Antennas (Ant 2 & Ant 5)				
PIFA	5.15 ~ 5.9	2	4.08	4.08
Note: 1, The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated. 2, The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax/be, not include 802.11a/b/g. 3, For beamforming operation, Aruba OS automatically backs power down based on CDD power. 4, The antennas are cross-polarized, so the correlated gain equals to the uncorrelated gain. 5, The detail calculation method of directional gain refers to antenna specification provided by the applicant.				

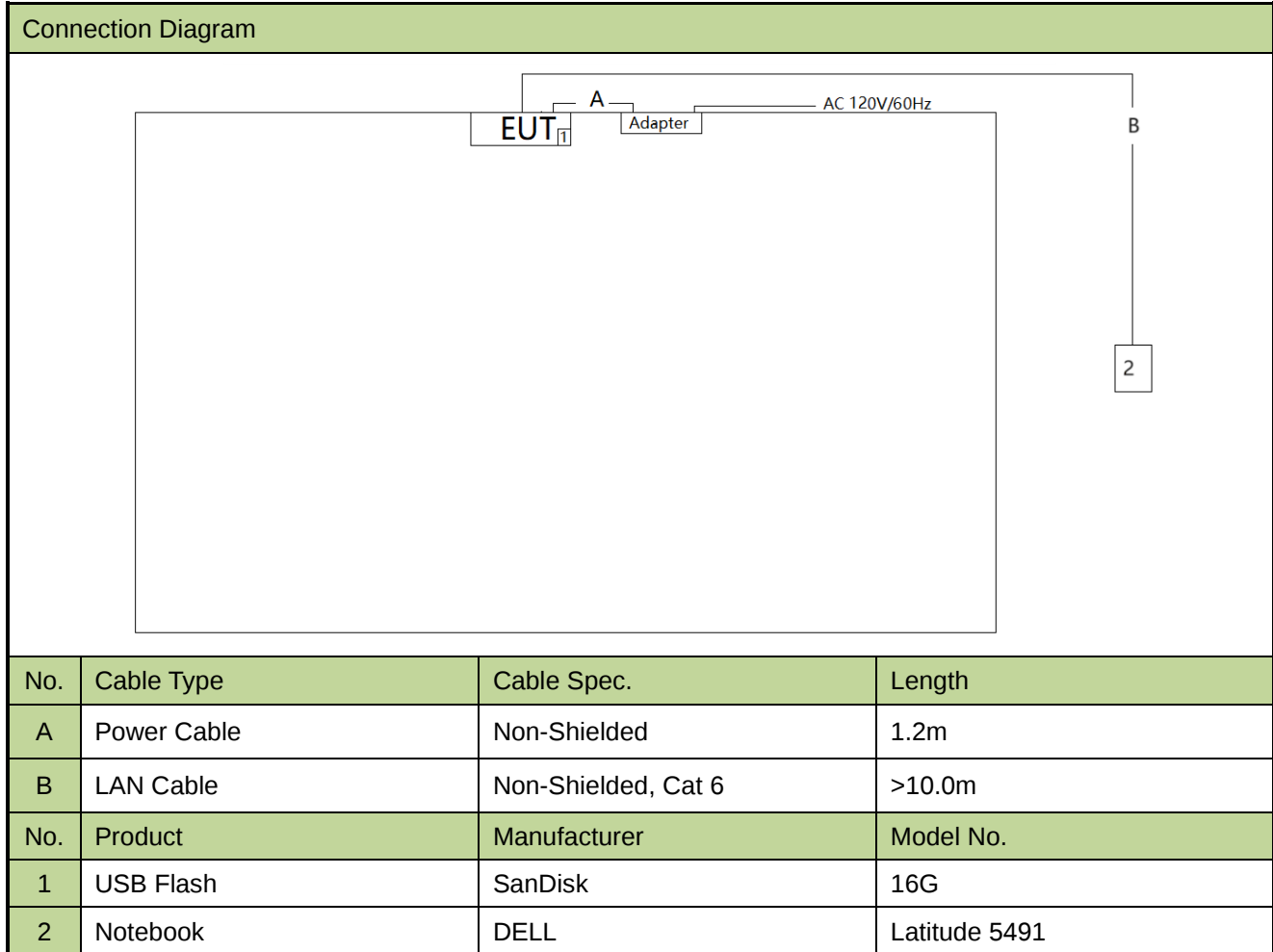
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11a (6Mbps)
Mode 2: Transmit by 802.11ac-VHT20_Nss=1 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40_Nss=1 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80_Nss=1 (MCS0)
Mode 5: Transmit by 802.11ac-VHT160_Nss=1 (MCS0)
Mode 6: Transmit by 802.11ax-HE20_Nss=1 (MCS0)
Mode 7: Transmit by 802.11ax-HE40_Nss=1 (MCS0)
Mode 8: Transmit by 802.11ax-HE80_Nss=1 (MCS0)
Mode 9: Transmit by 802.11ax-HE160_Nss=1 (MCS0)
Mode 10: Transmit by 802.11be-EHT20_Nss=1 (MCS0)
Mode 11: Transmit by 802.11be-EHT40_Nss=1 (MCS0)
Mode 12: Transmit by 802.11be-EHT80_Nss=1 (MCS0)
Mode 13: Transmit by 802.11be-EHT160_Nss=1 (MCS0)
Note: 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. 2. 802.11n and 802.11ac have same modulation type and same power value, so we only show 802.11ac test data in report. 3. For CDD mode, this device supports 2 Nss and power level is the same of spatial multiplexing. The worst case is Nss=1. 4. For beamforming operation, manufacturer automatically backs power down based on CDD power. Therefore, only the CDD mode was evaluated in this report.

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 “accessMTool”, and the version was 3.3.0.6.

Note: Final power setting please refer to operational description.

2.4. Applied Standards

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

- FCC Part 15.407
- KDB 789033 D02v02r01
- KDB 291074 D02v01
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Antenna Requirements

KDB 291074 DR01: An Indoor Access point in the U-NII-4 band (5.850-5.895 GHz) and U-NII -3 & -4 span channels must use an integrated antenna

- The antenna of the device is built in and locked inside the enclosure.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2025-11-03	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WZ-AC2
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
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11092	1 year	2025-06-05	WZ-SR5
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
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2025-05-08	WZ-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06615	1 year	2025-09-05	WZ-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06909	1 year	2025-09-05	WZ-SR2
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2025-09-02	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2024-12-14	WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-TR3

Software	Version	Function
e3	230711	EMI Test Software
Controller_MF 7802	1.02	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

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
15.407(a)	26dB Bandwidth	Conducted	Pass
15.407(e)	6dB Bandwidth		Pass
15.407(a)(3)(ii)	Maximum Conducted Output Power		Pass
15.407(a)(3)(ii)(13)	Peak Power Spectral Density		Pass
15.407(b)(5)(i)	Undesirable Emissions	Radiated	Pass
15.205, 15.209 15.407(b)(5)(i), (8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)		Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

- 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.
- 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.
- "Output Power" was retest and the power is lower than original model APIN0735, so spot check for other items were performed and the test data were referenced from the original report.

6.2. 26dB & 99% Bandwidth Measurement

6.2.1. Test Limit

N/A

6.2.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)1) (26dB Bandwidth)

KDB 789033 D02v02r01- Section II)D) (99% Bandwidth)

6.2.3. Test Setting

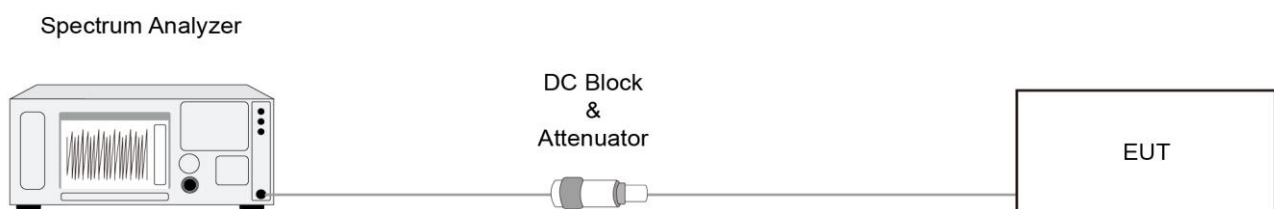
26dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold.

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW $\geq 3 \times$ RBW
5. Detector = Peak.
6. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. 6dB Bandwidth Measurement

6.3.1. Test Limit

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

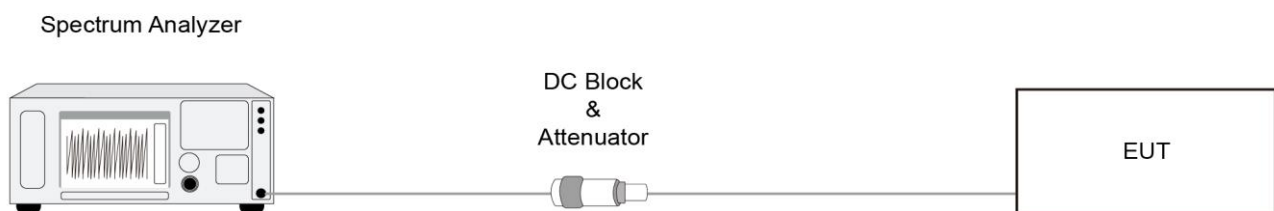
6.3.2. Test Procedure

KDB 789033 D02v02r01- Section II)C)2)

6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. 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.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Output Power Measurement

6.4.1. Test Limit

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

6.4.2. Test Procedure

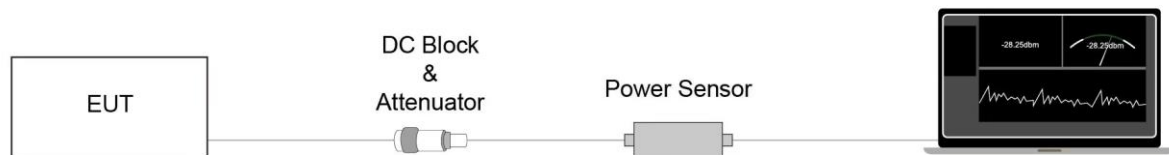
KDB 789033D02v02r01- Section II(E)3)b) Method PM-G

6.4.3. 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.

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Power Spectral Density Measurement

6.5.1. Test Limit

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band.

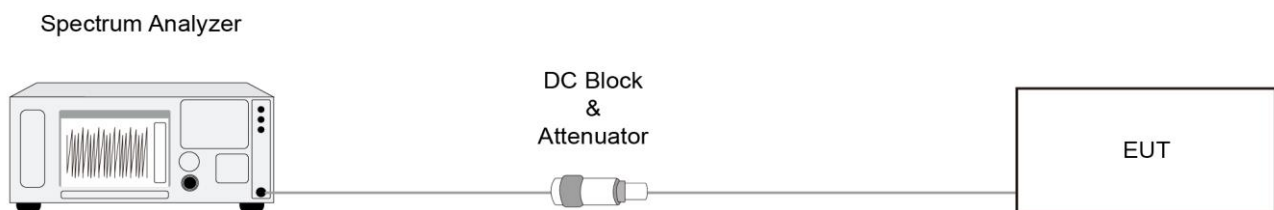
6.5.2. Test Procedure

KDB 789033 D02v02r01-Section II)F)

6.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = $3 \times \text{RBW}$
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6 \text{ dB}$ if the duty cycle is 25 percent.

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Frequency Stability Measurement

6.6.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

6.6.2. Test Procedure

Frequency Stability Under Temperature Variations:

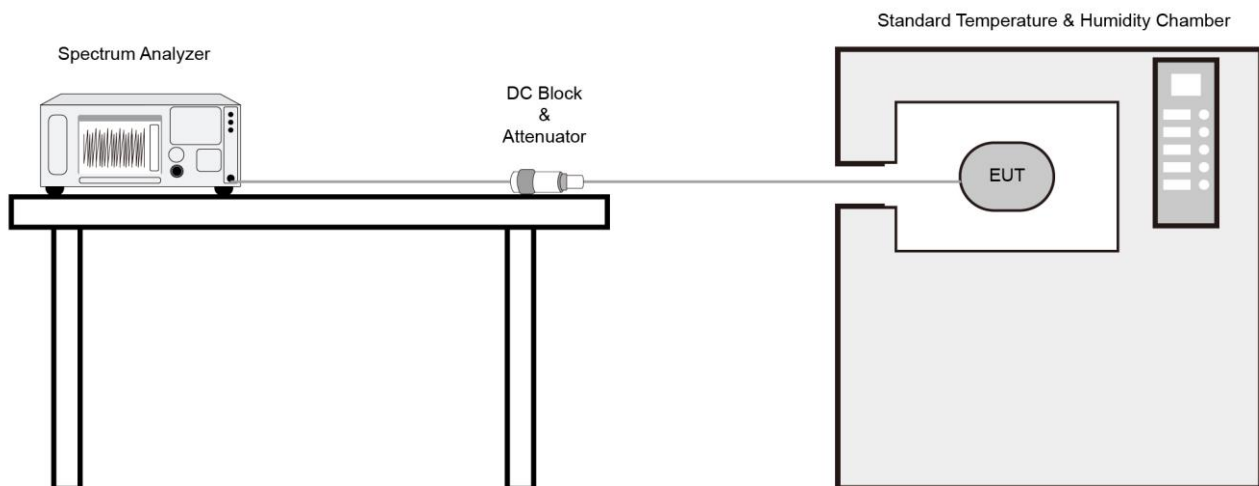
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

6.6.3. Test Setup



6.6.4. Test Result

Refer to Appendix A.6.

6.7. Radiated Spurious Emission Measurement

6.7.1. 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 [$\mu\text{V/m}$]	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

KDB 789033 D02v02r01- Section II)G)

6.7.3. 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

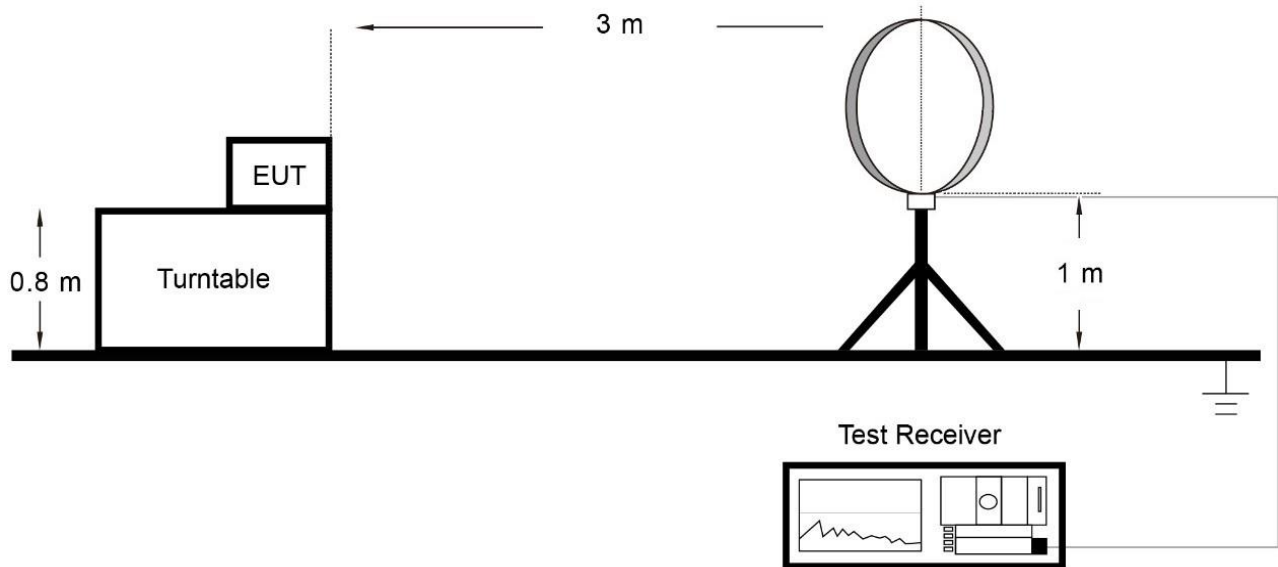
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.

802.11a	VBW = 510Hz	802.11ax-HE80	VBW = 2700Hz
802.11ac-VHT20	VBW = 560Hz	802.11ax-HE160	VBW = 4300Hz
802.11ac-VHT40	VBW = 1100Hz	802.11be-EHT20	VBW = 680Hz
802.11ac-VHT80	VBW = 2200Hz	802.11be-EHT40	VBW = 1300Hz
802.11ac-VHT160	VBW = 4300Hz	802.11be-EHT80	VBW = 2700Hz
802.11ax-HE20	VBW = 680Hz	802.11be-EHT160	VBW = 4300Hz
802.11ax-HE40	VBW = 1300Hz	--	--

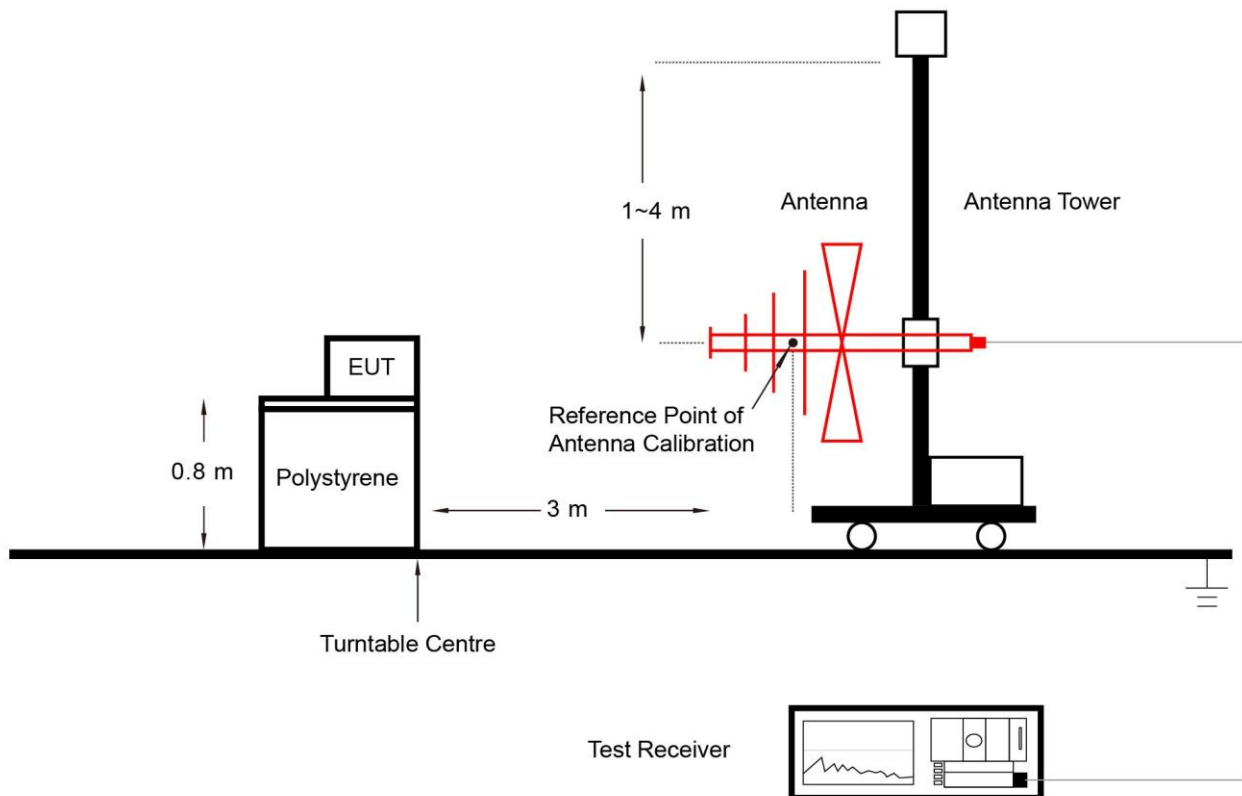
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can 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

6.7.4. Test Setup

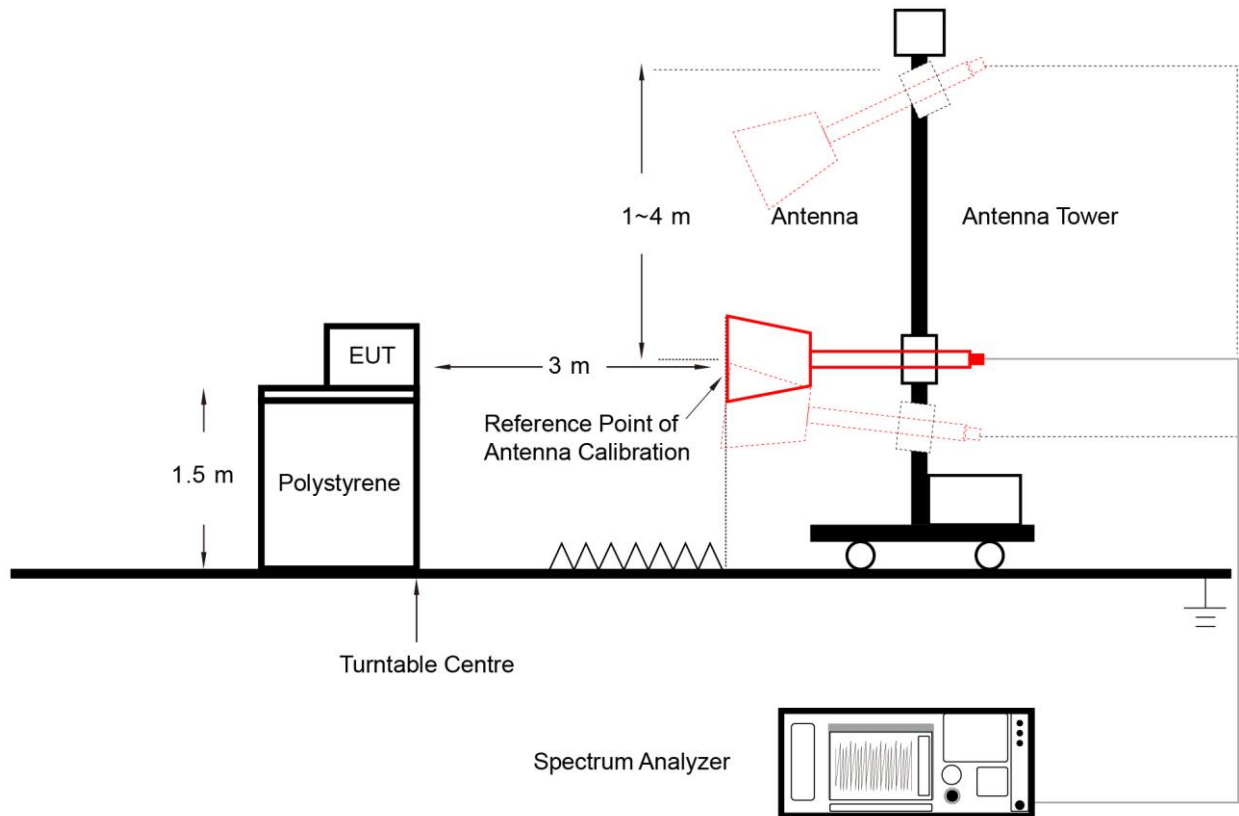
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.7.5. Test Result

Refer to Appendix A.7.

6.8. Radiated Restricted Band Edge Measurement

6.8.1. Test Limit

For 15.407(b) requirement:

For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

For an indoor access point, all emissions at or above 5.895GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925GHz.

All emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

$E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} + 95.2$, for example, $-27 \text{ dBm/MHz} = 68.2 \text{ dB}\mu\text{V/m}$

6.8.2. Test Procedure

KDB 789033 D02v02r01- Section II)G)

6.8.3. Test Setting

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)

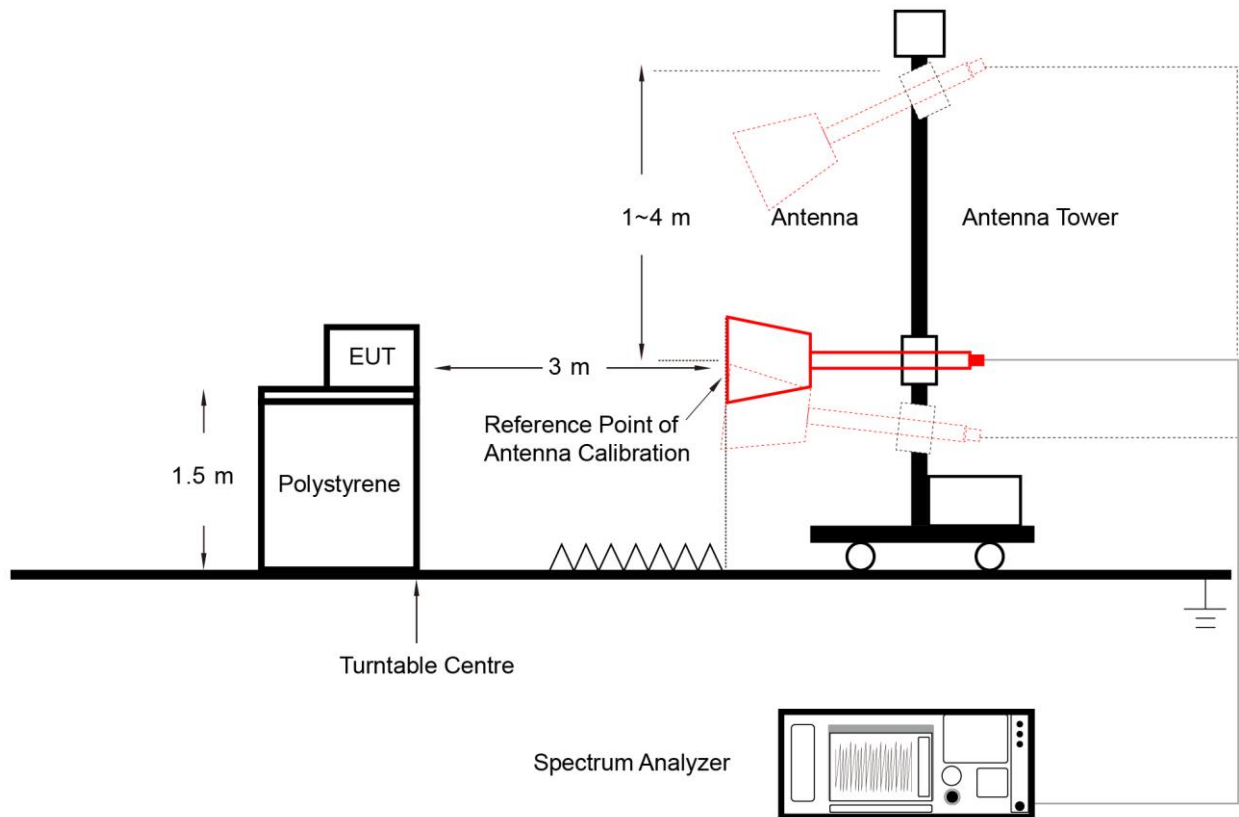
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10Hz

If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.

802.11a	VBW = 510Hz	802.11ax-HE80	VBW = 2700Hz
802.11ac-VHT20	VBW = 560Hz	802.11ax-HE160	VBW = 4300Hz
802.11ac-VHT40	VBW = 1100Hz	802.11be-EHT20	VBW = 680Hz
802.11ac-VHT80	VBW = 2200Hz	802.11be-EHT40	VBW = 1300Hz
802.11ac-VHT160	VBW = 4300Hz	802.11be-EHT80	VBW = 2700Hz
802.11ax-HE20	VBW = 680Hz	802.11be-EHT160	VBW = 4300Hz
802.11ax-HE40	VBW = 1300Hz	--	--

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

6.8.4. Test Setup



6.8.5. Test Result

Refer to Appendix A.8.

6.9. AC Conducted Emissions Measurement

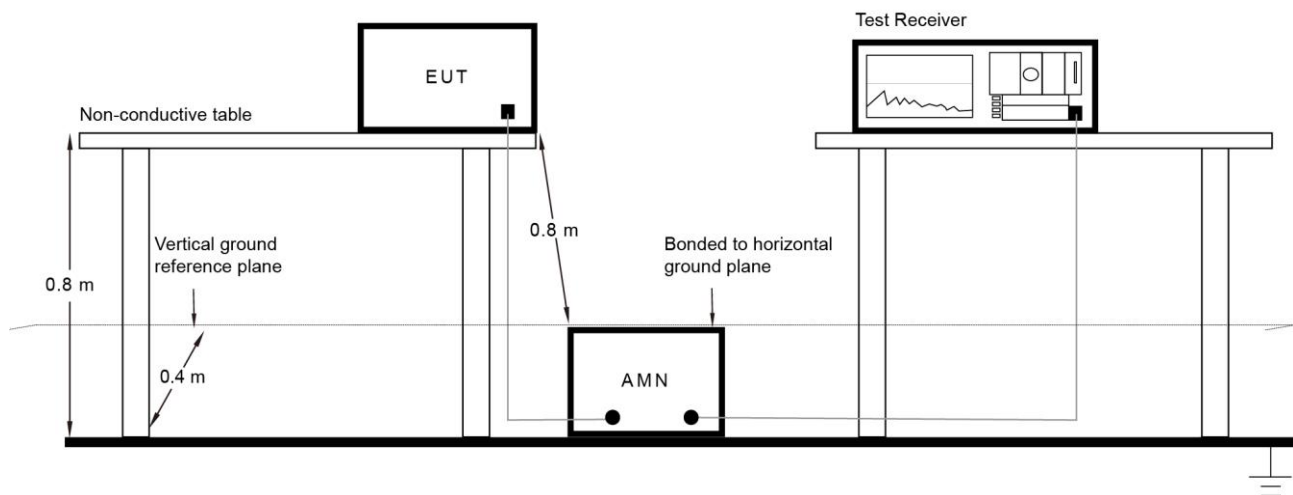
6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
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.

6.9.2. Test Setup



6.9.3. Test Result

Refer to Appendix A.9.

Appendix A – Test Result

A.1 Duty Cycle Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.1

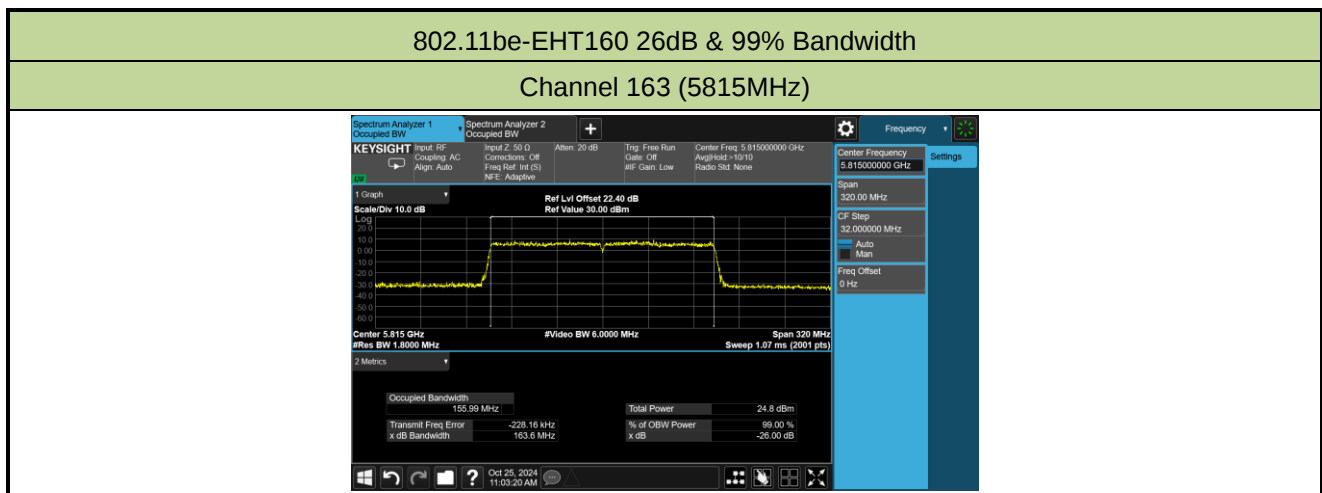
A.2 26dB & 99% Bandwidth Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.2

Spot Check:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-25		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
11ac-VHT160	MCS0	163	5815	155.99	163.6



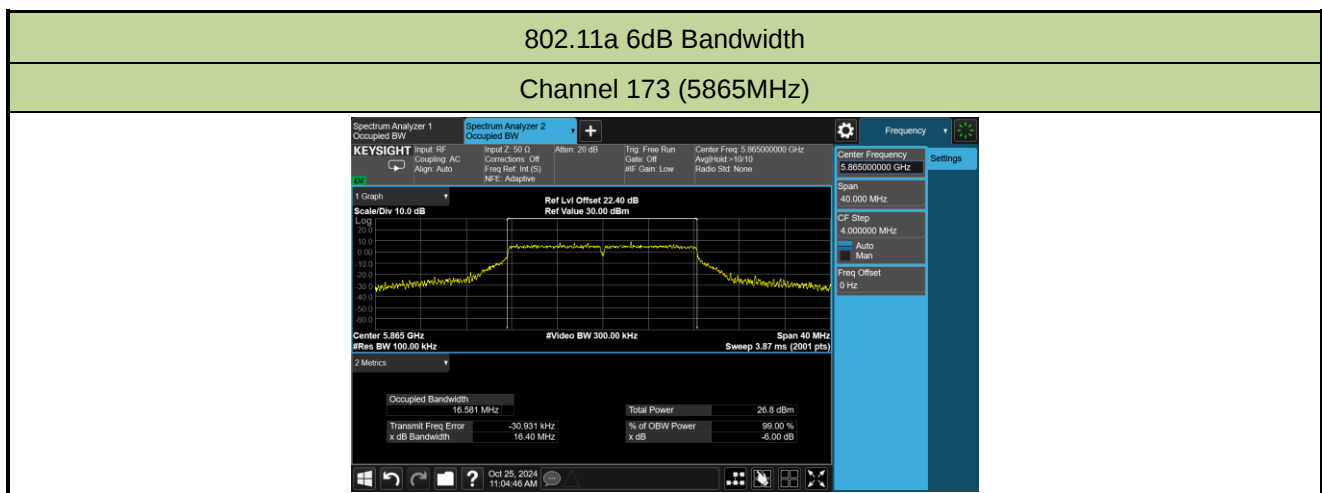
A.3 6dB Bandwidth Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.3

Spot Check:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-25		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11a	6Mbps	173	5865	16.40	≥ 0.5



A.4 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-30		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Uncorrelated Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 5	Ant 2				
11a	6Mbps	169	5845	18.98	17.65	21.38	4.08	25.46	≤ 36.00
11a	6Mbps	173	5865	18.84	17.65	21.30	4.08	25.38	≤ 36.00
11a	6Mbps	177	5885	18.37	17.79	21.10	4.08	25.18	≤ 36.00
11ac-VHT20	MCS0	169	5845	18.70	17.41	21.11	4.08	25.19	≤ 36.00
11ac-VHT20	MCS0	173	5865	18.73	17.58	21.20	4.08	25.28	≤ 36.00
11ac-VHT20	MCS0	177	5885	18.42	17.91	21.18	4.08	25.26	≤ 36.00
11ac-VHT40	MCS0	167	5835	18.71	17.36	21.10	4.08	25.18	≤ 36.00
11ac-VHT40	MCS0	175	5875	18.22	17.64	20.95	4.08	25.03	≤ 36.00
11ac-VHT80	MCS0	171	5855	18.35	17.23	20.84	4.08	24.92	≤ 36.00
11ac-VHT160	MCS0	163	5815	15.70	15.31	18.52	4.08	22.60	≤ 36.00
11ax-HE20	MCS0	169	5845	19.05	17.33	21.28	4.08	25.36	≤ 36.00
11ax-HE20	MCS0	173	5865	18.70	17.57	21.18	4.08	25.26	≤ 36.00
11ax-HE20	MCS0	177	5885	18.34	17.46	20.93	4.08	25.01	≤ 36.00
11ax-HE40	MCS0	167	5835	18.73	17.10	21.00	4.08	25.08	≤ 36.00
11ax-HE40	MCS0	175	5875	18.41	17.37	20.93	4.08	25.01	≤ 36.00
11ax-HE80	MCS0	171	5855	18.18	17.16	20.71	4.08	24.79	≤ 36.00
11ax-HE160	MCS0	163	5815	15.46	15.23	18.36	4.08	22.44	≤ 36.00
11be-EHT20	MCS0	169	5845	18.66	17.25	21.02	4.08	25.10	≤ 36.00
11be-EHT20	MCS0	173	5865	18.82	17.56	21.25	4.08	25.33	≤ 36.00
11be-EHT20	MCS0	177	5885	18.04	17.49	20.78	4.08	24.86	≤ 36.00
11be-EHT40	MCS0	167	5835	18.70	17.38	21.10	4.08	25.18	≤ 36.00
11be-EHT40	MCS0	175	5875	18.25	17.42	20.87	4.08	24.95	≤ 36.00
11be-EHT80	MCS0	171	5855	18.46	17.27	20.92	4.08	25.00	≤ 36.00
11be-EHT160	MCS0	163	5815	15.68	15.76	18.73	4.08	22.81	≤ 36.00

Note 1: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 5 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)}\}$.

Note 2: EIRP (dBm) = Total Average Power (dBm) + Uncorrelated Gain (dBi).

A.5 Power Spectral Density Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.5

Spot Check:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-30		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVG PSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 5	Ant 2				
11a	6Mbps	173	5865	7.031	6.278	94.89	9.91	13.99	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 5 AVG PSD}/10)} + 10^{(\text{Ant 2 AVG PSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$.

Note 2: EIRP PSD (dBm/MHz) = Total PSD (dBm/MHz) + Correlated Gain (dBi).

802.11a Power Spectral Density - Ant 5

Channel 173 (5865MHz)



802.11a Power Spectral Density - Ant 2

Channel 173 (5865MHz)



A.6 Frequency Stability Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.6

Spot Check:

Test Site	WZ-TR3	Test Engineer	Amy Zhang
Test Date	2024-10-30		
Test Mode	5845MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)
100	120	- 20	11.89

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

A.7 Radiated Spurious Emission Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.7

Spot Check:

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2024-10-31	Test Mode	802.11a – Channel 177
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9909.7	33.5	12.7	46.2	108.2	-62.0	Peak	Horizontal
	11429.5	31.5	16.4	47.9	74.0	-26.1	Peak	Horizontal
*	14146.1	31.1	18.9	50.0	108.2	-58.2	Peak	Horizontal
	15752.6	33.7	16.4	50.1	74.0	-23.9	Peak	Horizontal
	7584.1	32.9	10.1	43.0	74.0	-31.0	Peak	Vertical
*	9770.3	33.2	12.6	45.8	108.2	-62.4	Peak	Vertical
	11727.0	31.3	16.8	48.1	74.0	-25.9	Peak	Vertical
*	17015.7	32.3	20.6	52.9	108.2	-55.3	Peak	Vertical

Note 1: "*" is not in restricted band.

Note 2: 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-AC2	Test Engineer	Dick Shen
Test Date	2024-10-31	Test Mode	802.11be-EHT40 – Channel 175
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8182.5	32.9	10.5	43.4	74.0	-30.6	Peak	Horizontal
	11625.0	31.9	16.6	48.5	74.0	-25.5	Peak	Horizontal
*	14022.0	31.4	18.7	50.1	108.2	-58.1	Peak	Horizontal
*	17034.4	32.8	20.6	53.4	108.2	-54.8	Peak	Horizontal
	8223.3	33.3	10.1	43.4	74.0	-30.6	Peak	Vertical
	11798.4	31.6	16.7	48.3	74.0	-25.7	Peak	Vertical
*	14737.7	33.4	18.4	51.8	108.2	-56.4	Peak	Vertical
*	17059.9	32.9	21.1	54.0	108.2	-54.2	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: 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-AC2	Test Engineer	Dick Shen
Test Date	2024-10-31	Test Mode	802.11be-EHT80 – Channel 171
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7422.6	33.1	10.4	43.5	74.0	-30.5	Peak	Horizontal
*	10010.0	33.2	12.8	46.0	108.2	-62.2	Peak	Horizontal
	11798.4	31.6	16.7	48.3	74.0	-25.7	Peak	Horizontal
*	16913.7	33.3	20.3	53.6	108.2	-54.6	Peak	Horizontal
	8180.8	32.6	10.4	43.0	74.0	-31.0	Peak	Vertical
*	10006.6	33.5	12.7	46.2	108.2	-62.0	Peak	Vertical
	11533.2	31.8	16.3	48.1	74.0	-25.9	Peak	Vertical
*	13636.1	32.5	18.2	50.7	108.2	-57.5	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: 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-AC2	Test Engineer	Dick Shen
Test Date	2024-10-31	Test Mode	802.11be-EHT160 – Channel 163
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8230.1	33.5	10.1	43.6	74.0	-30.4	Peak	Horizontal
*	9838.3	33.4	12.7	46.1	108.2	-62.1	Peak	Horizontal
	11550.2	31.3	16.7	48.0	74.0	-26.0	Peak	Horizontal
*	16713.1	34.8	18.8	53.6	108.2	-54.6	Peak	Horizontal
	8124.7	33.0	10.8	43.8	74.0	-30.2	Peak	Vertical
*	9942.0	33.8	12.8	46.6	108.2	-61.6	Peak	Vertical
	11645.4	30.9	16.9	47.8	74.0	-26.2	Peak	Vertical
*	16993.6	32.9	20.6	53.5	108.2	-54.7	Peak	Vertical

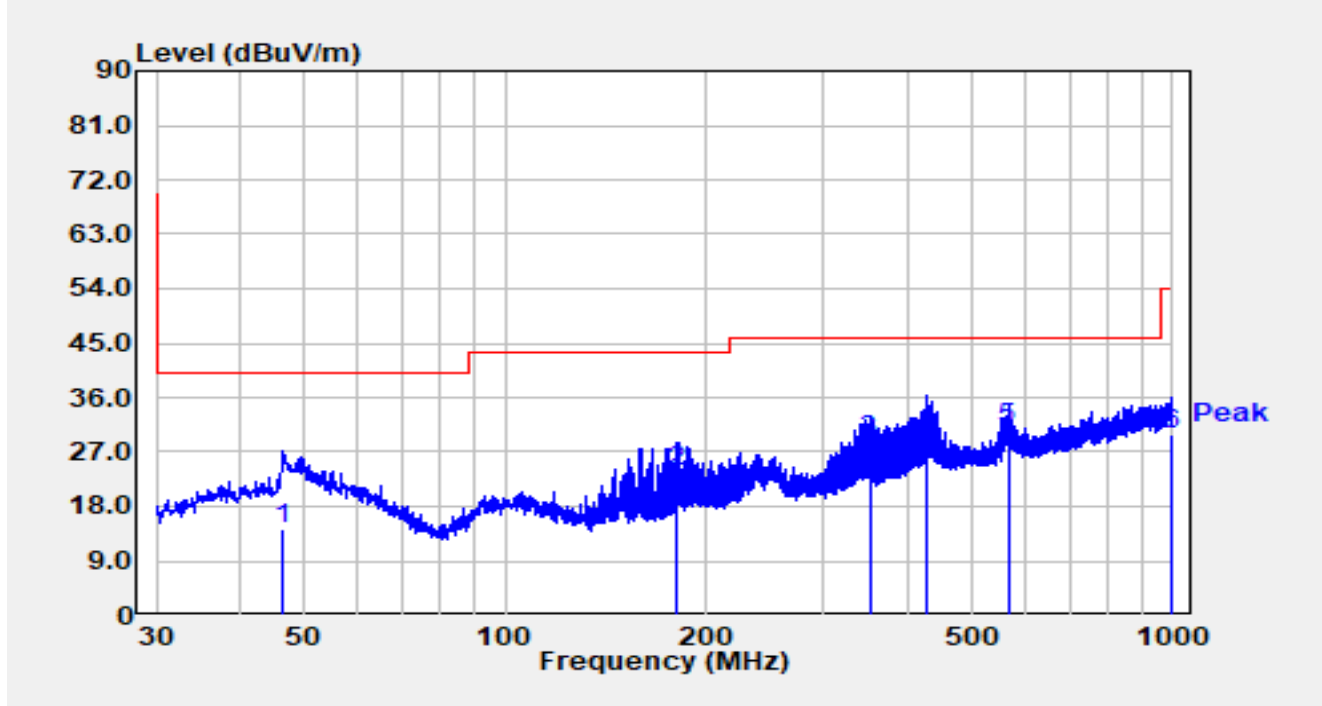
Note 1: “*” is not in restricted band.

Note 2: 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 for 30MHz ~ 1GHz:

Site	WZ-AC2	Test Date	2024-11-01
Temperature	26.7°C	Humidity	39.4%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_30-7000MHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5845MHz		

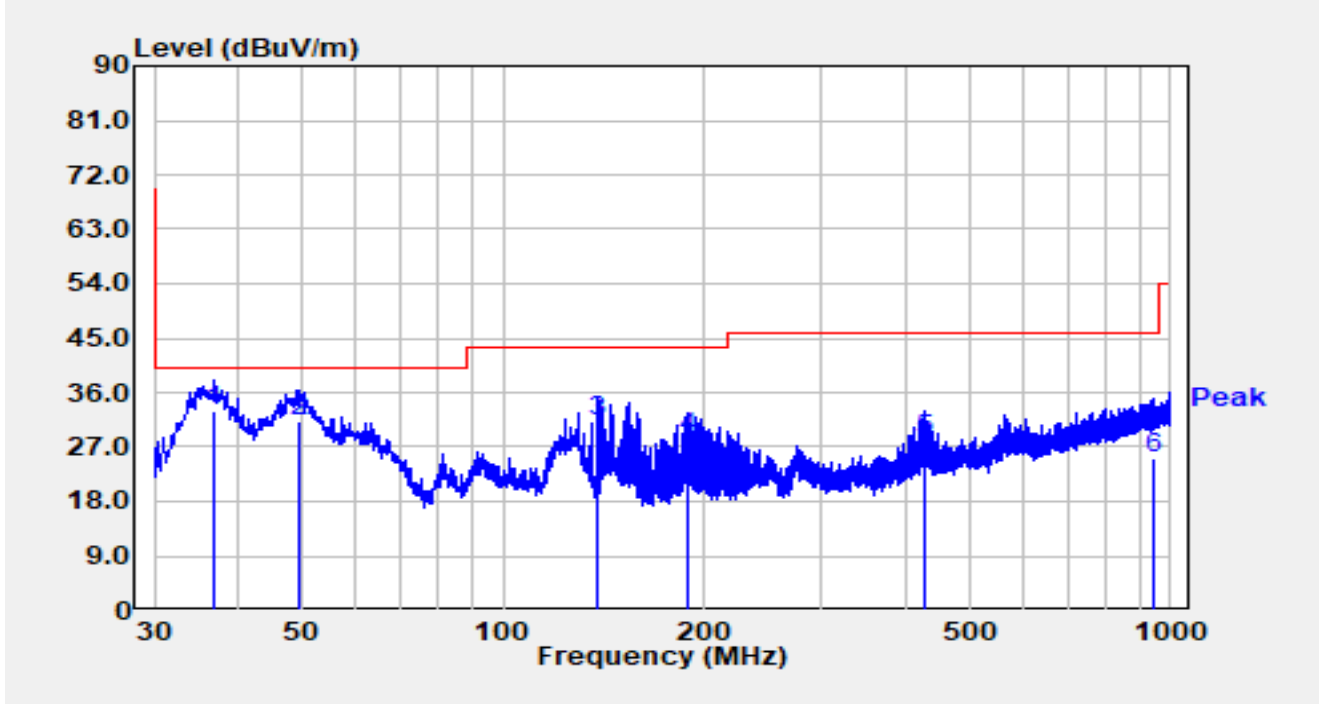


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		46.490	-6.07	20.38	14.31	-25.69	40.00	QP
2		180.835	6.81	16.88	23.69	-19.81	43.50	QP
3		351.458	6.26	22.74	29.01	-16.99	46.00	QP
4		428.670	6.56	23.70	30.26	-15.74	46.00	QP
5	*	566.604	4.56	26.35	30.91	-15.09	46.00	QP
6		999.903	-2.58	32.42	29.84	-24.16	54.00	QP

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).

Site	WZ-AC2	Test Date	2024-11-01
Temperature	26.7°C	Humidity	39.4%
Limit	FCC_Part 15.209_RSE(3m)	Test Engineer	Dick Shen
Factor	VULB 9162_30-7000MHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5845MHz		



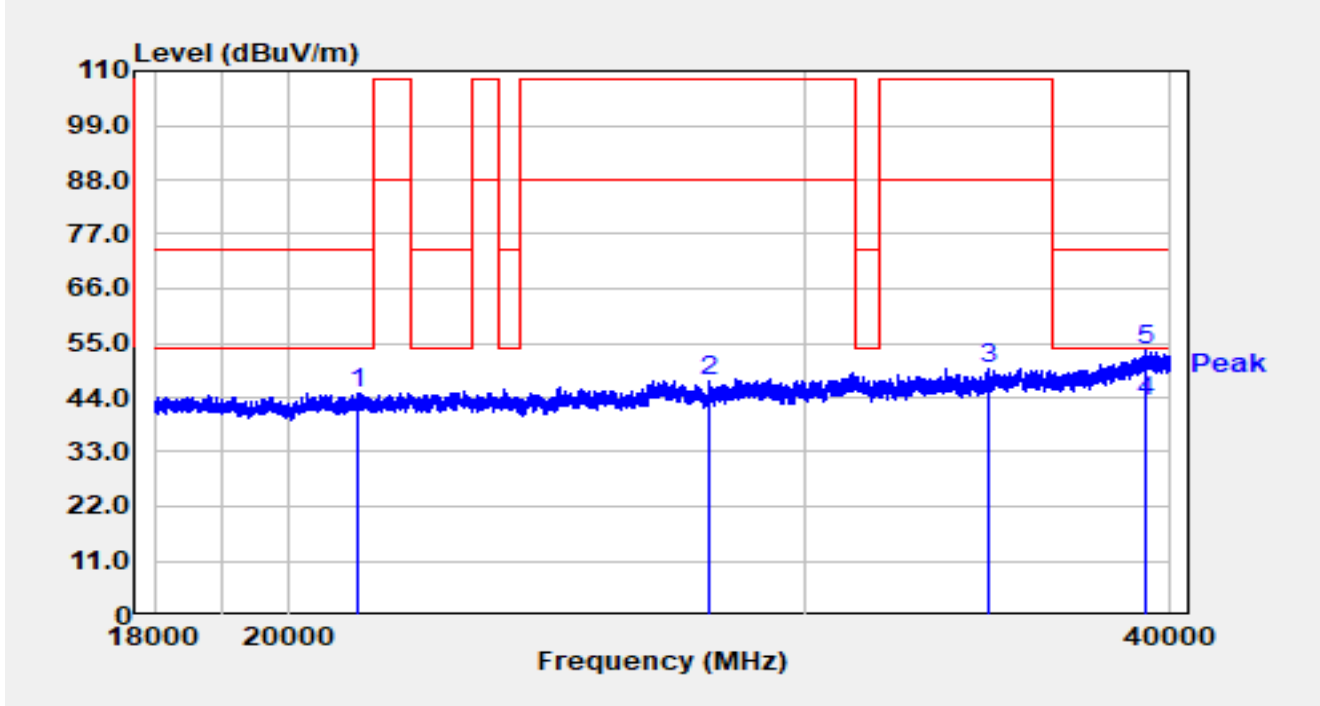
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	36.790	14.91	18.18	33.09	-6.91	40.00	QP
2		49.303	10.79	20.48	31.27	-8.73	40.00	QP
3		138.155	16.00	15.27	31.28	-12.22	43.50	QP
4		188.886	10.80	17.86	28.66	-14.84	43.50	QP
5		426.536	4.39	23.69	28.08	-17.92	46.00	QP
6		939.278	-6.40	31.44	25.03	-20.97	46.00	QP

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).

The Result of Radiated Emission for 18 ~ 40GHz:

Site	WZ-AC2	Test Date	2024-12-04
Temperature	26.7°C	Humidity	39.4%
Limit	FCC_Part 15.407_RSE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9170_549_18-40GHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5845MHz		

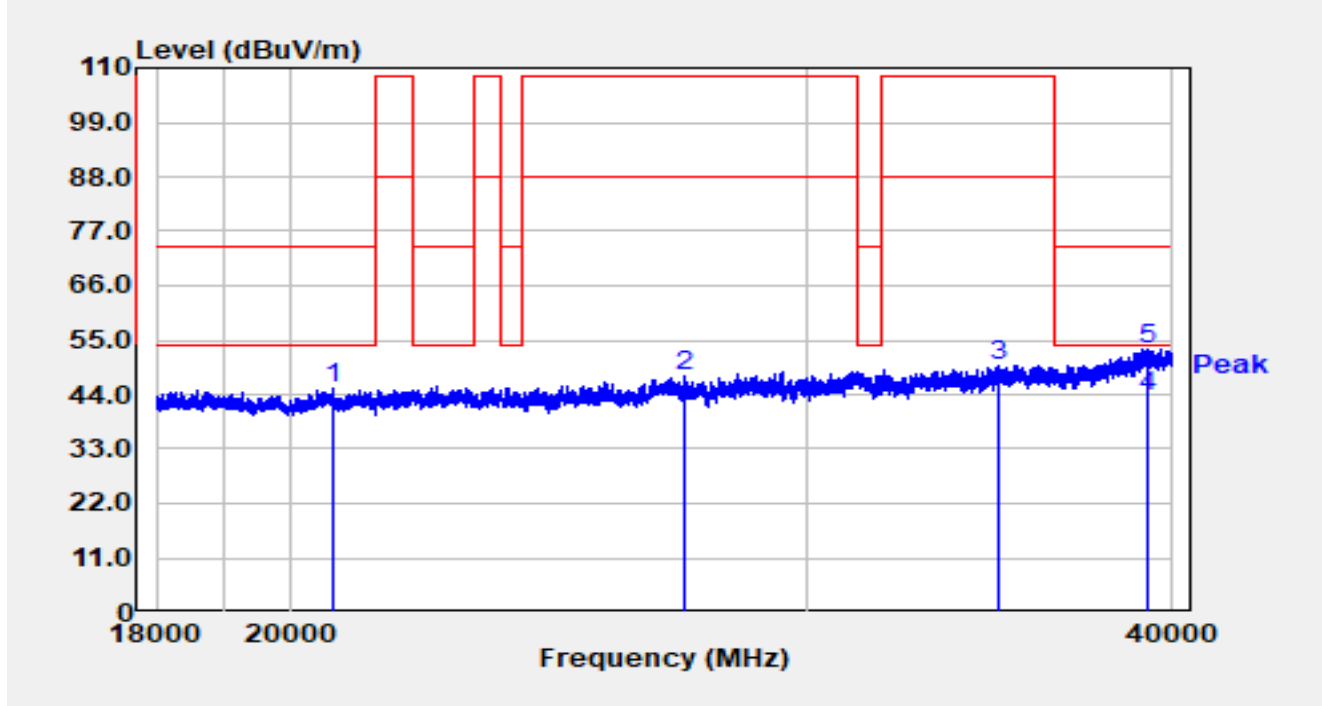


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		21121.800	53.07	-8.07	45.00	-29.00	74.00	Peak
2		27853.800	54.14	-6.71	47.43	-60.77	108.20	Peak
3		34654.000	54.97	-5.27	49.70	-58.50	108.20	Peak
4	*	39227.800	43.81	-0.43	43.38	-10.62	54.00	Average
5		39227.800	53.88	-0.43	53.44	-20.56	74.00	Peak

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-AC2	Test Date	2024-12-04
Temperature	26.7°C	Humidity	39.4%
Limit	FCC_Part 15.407_RSE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9170_549_18-40GHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5845MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		20675.200	53.63	-8.58	45.05	-28.95	74.00	Peak
2		27262.000	53.66	-6.04	47.63	-60.57	108.20	Peak
3		34885.000	55.59	-5.80	49.80	-58.40	108.20	Peak
4	*	39216.800	44.21	-0.54	43.67	-10.33	54.00	Average
5		39216.800	53.58	-0.54	53.03	-20.97	74.00	Peak

Notes:

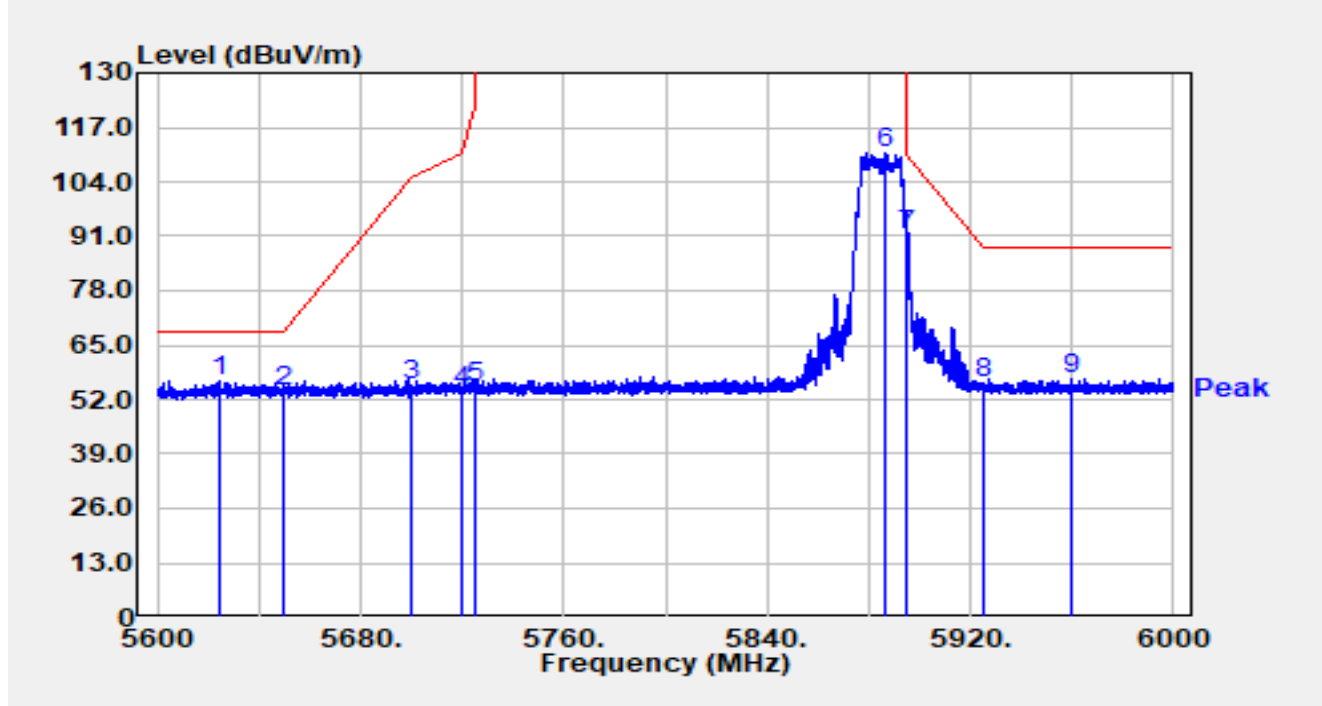
1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)-AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

A.8 Radiated Restricted Band Edge Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.8

Spot Check:

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5885MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5624.240	35.81	20.53	56.34	-11.86	68.20	Peak
2		5650.000	33.35	20.60	53.95	-14.25	68.20	Peak
3		5700.000	34.56	20.96	55.52	-49.68	105.20	Peak
4		5720.000	32.70	21.20	53.90	-56.90	110.80	Peak
5		5725.000	33.73	21.24	54.97	-67.23	122.20	Peak
6		5886.200	89.20	21.57	110.76	N/A	N/A	Peak
7		5895.000	69.84	21.52	91.36	-58.64	150.00	Peak
8		5925.000	34.10	21.59	55.69	-32.51	88.20	Peak
9		5960.080	35.40	21.64	57.03	-31.17	88.20	Peak

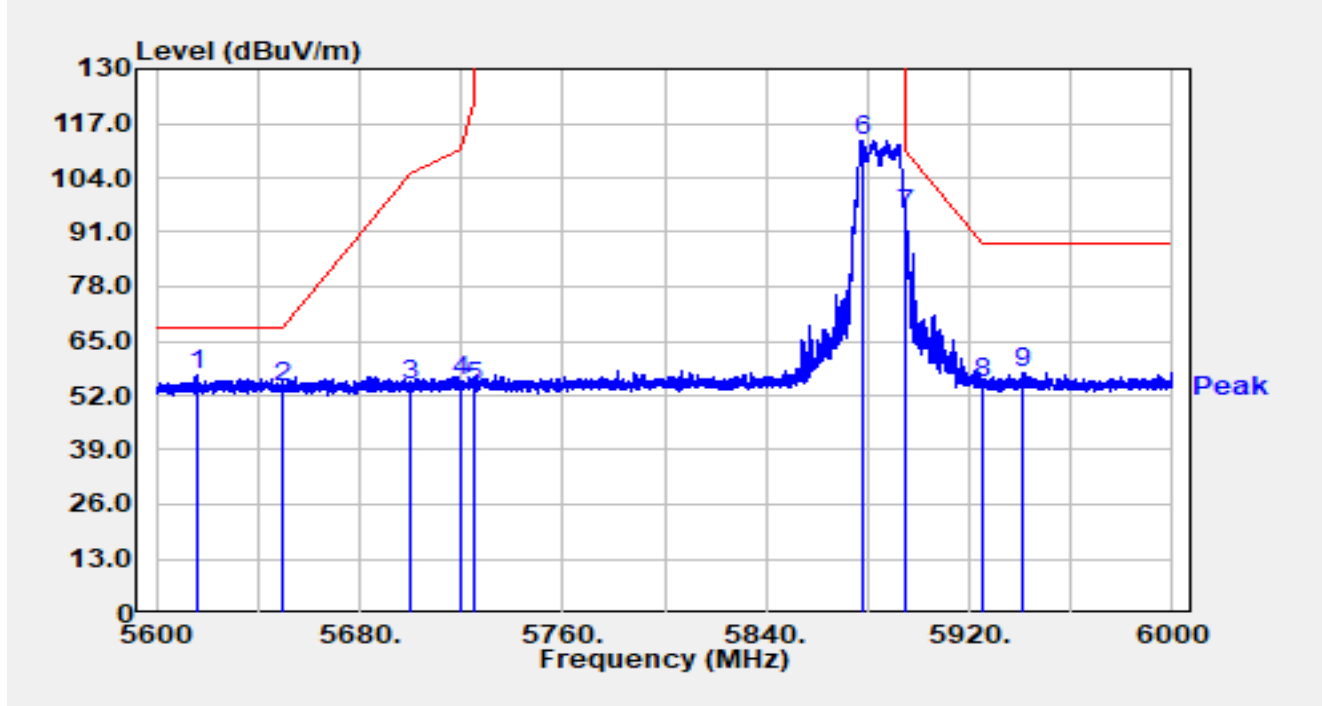
Notes:

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

2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)+ 16dB Attenuation (dB) -AMP (dB).

3. Measurement(dB μ V/m) = Reading(dB μ V) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11a at 5885MHz		

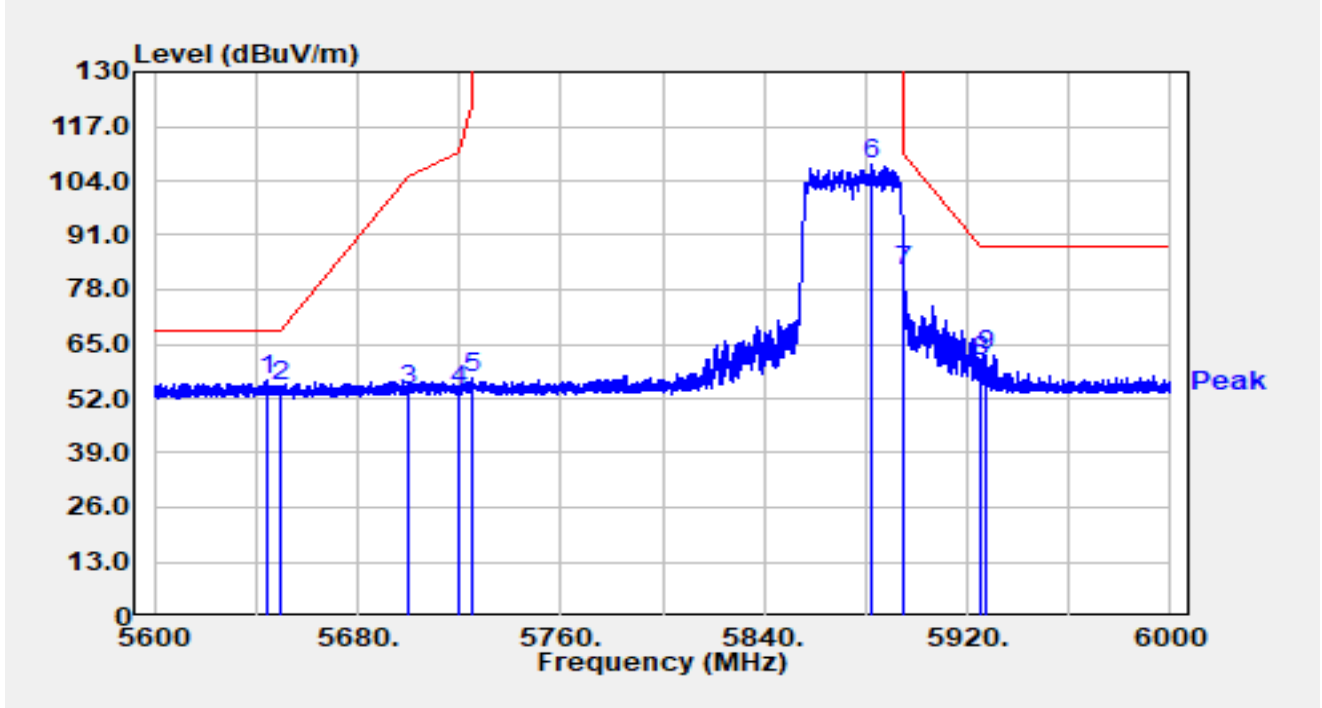


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5616.440	36.40	20.34	56.74	-11.46	68.20	Peak
2		5650.000	33.25	20.60	53.84	-14.36	68.20	Peak
3		5700.000	33.35	20.96	54.31	-50.89	105.20	Peak
4		5720.000	34.10	21.20	55.29	-55.51	110.80	Peak
5		5725.000	32.84	21.24	54.08	-68.12	122.20	Peak
6		5877.640	91.36	21.60	112.96	N/A	N/A	Peak
7		5895.000	73.53	21.52	95.05	-54.95	150.00	Peak
8		5925.000	33.34	21.59	54.94	-33.26	88.20	Peak
9		5941.440	35.74	21.64	57.37	-30.83	88.20	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)+ 16dB Attenuation (dB) -AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11be-EHT40 at 5875MHz		

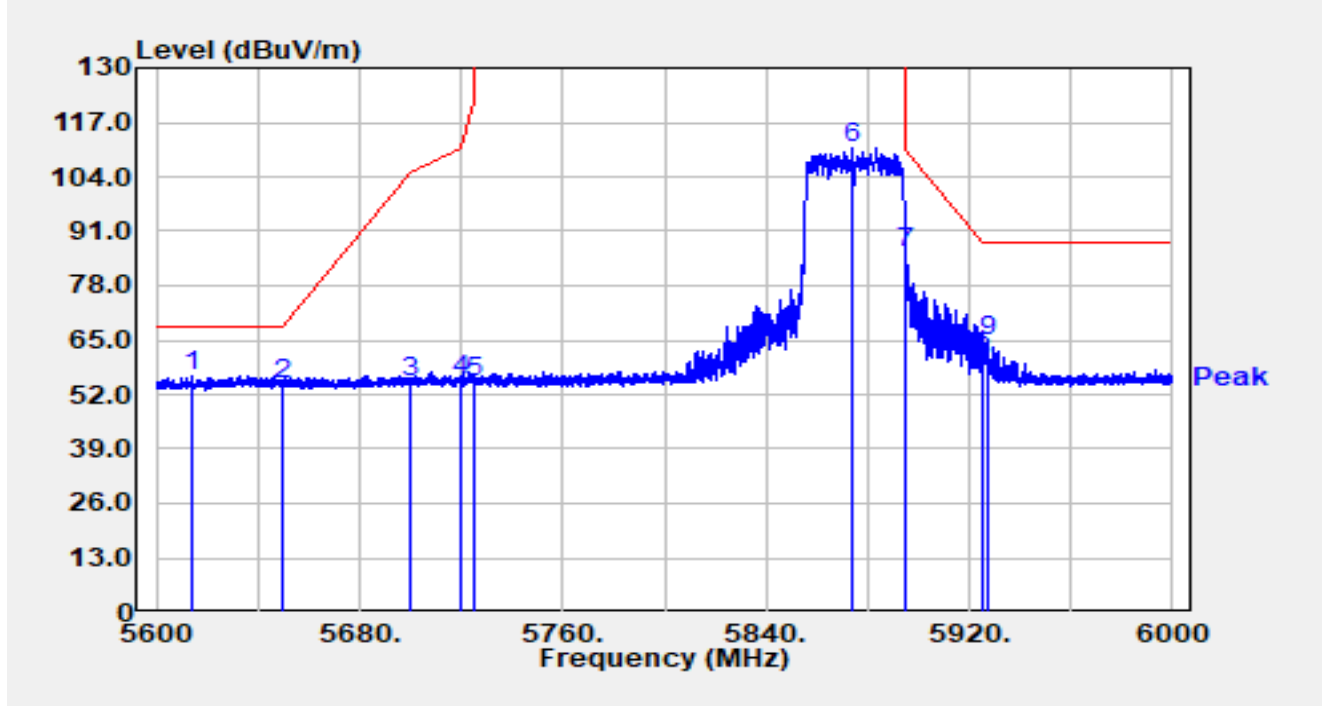


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5644.720	35.73	20.65	56.38	-11.82	68.20	Peak
2		5650.000	34.37	20.60	54.97	-13.23	68.20	Peak
3		5700.000	33.15	20.96	54.11	-51.09	105.20	Peak
4		5720.000	32.60	21.20	53.80	-57.00	110.80	Peak
5		5725.000	35.82	21.24	57.06	-65.14	122.20	Peak
6		5882.160	86.38	21.58	107.96	N/A	N/A	Peak
7		5895.000	61.08	21.52	82.60	-67.40	150.00	Peak
8		5925.000	39.03	21.59	60.62	-27.58	88.20	Peak
9		5927.040	40.83	21.60	62.43	-25.77	88.20	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)+ 16dB Attenuation (dB) -AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11be-EHT40 at 5875MHz		

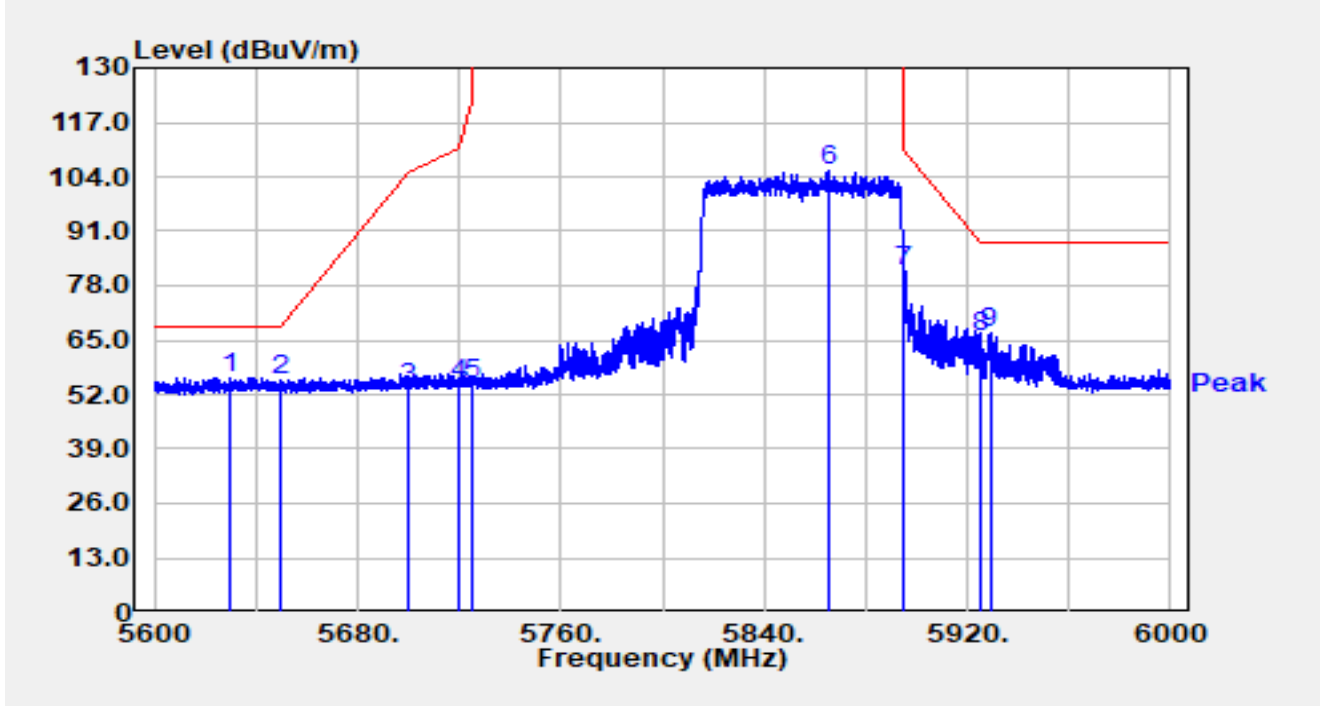


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5613.760	36.38	20.28	56.66	-11.54	68.20	Peak
2		5650.000	34.07	20.60	54.66	-13.54	68.20	Peak
3		5700.000	34.11	20.96	55.08	-50.12	105.20	Peak
4		5720.000	34.01	21.20	55.20	-55.60	110.80	Peak
5		5725.000	33.80	21.24	55.04	-67.16	122.20	Peak
6		5873.640	89.47	21.60	111.07	N/A	N/A	Peak
7		5895.000	64.33	21.52	85.85	-64.15	150.00	Peak
8		5925.000	38.41	21.59	60.01	-28.19	88.20	Peak
9		5927.120	43.23	21.60	64.83	-23.37	88.20	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) -AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11be-EHT80 at 5855MHz		

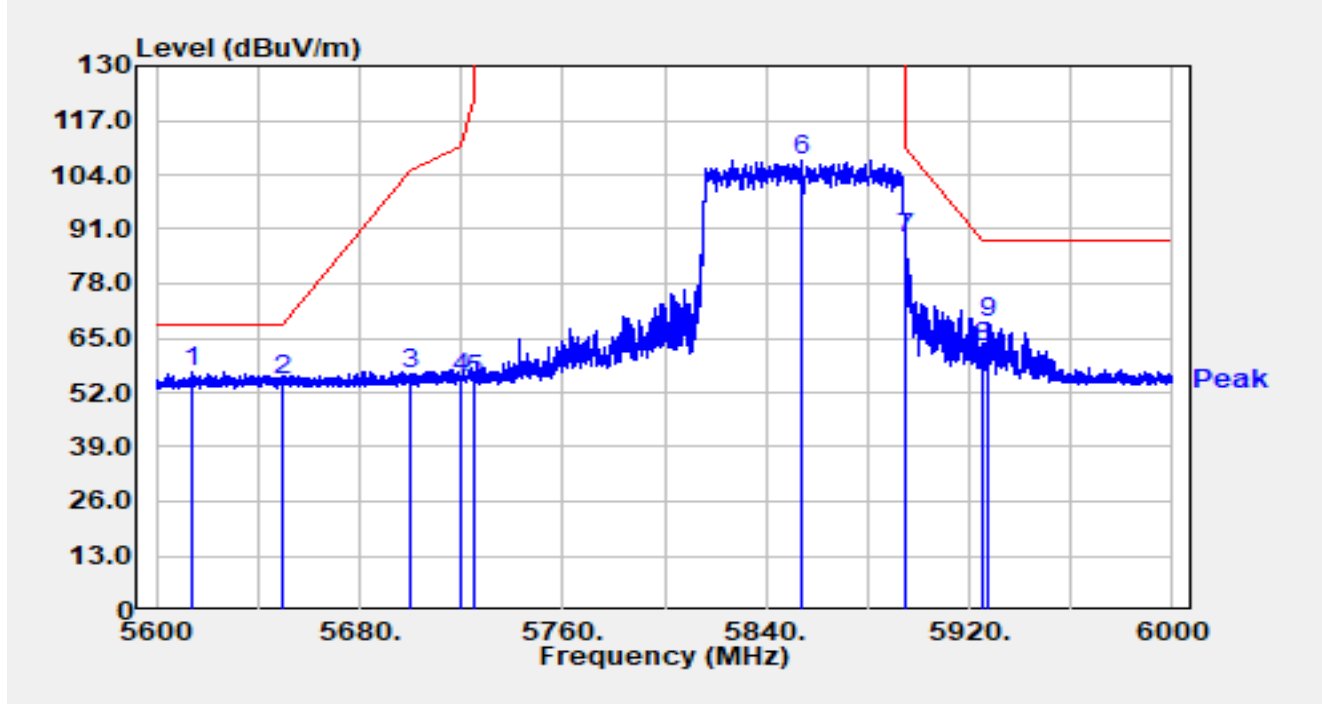


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5629.800	35.52	20.58	56.10	-12.10	68.20	Peak
2		5650.000	34.60	20.60	55.20	-13.00	68.20	Peak
3		5700.000	32.69	20.96	53.65	-51.55	105.20	Peak
4		5720.000	33.40	21.20	54.60	-56.20	110.80	Peak
5		5725.000	33.37	21.24	54.61	-67.59	122.20	Peak
6		5865.040	83.67	21.61	105.28	N/A	N/A	Peak
7		5895.000	59.84	21.52	81.36	-68.64	150.00	Peak
8		5925.000	44.18	21.59	65.77	-22.43	88.20	Peak
9		5928.920	45.02	21.61	66.63	-21.57	88.20	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) -AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11be-EHT80 at 5855MHz		

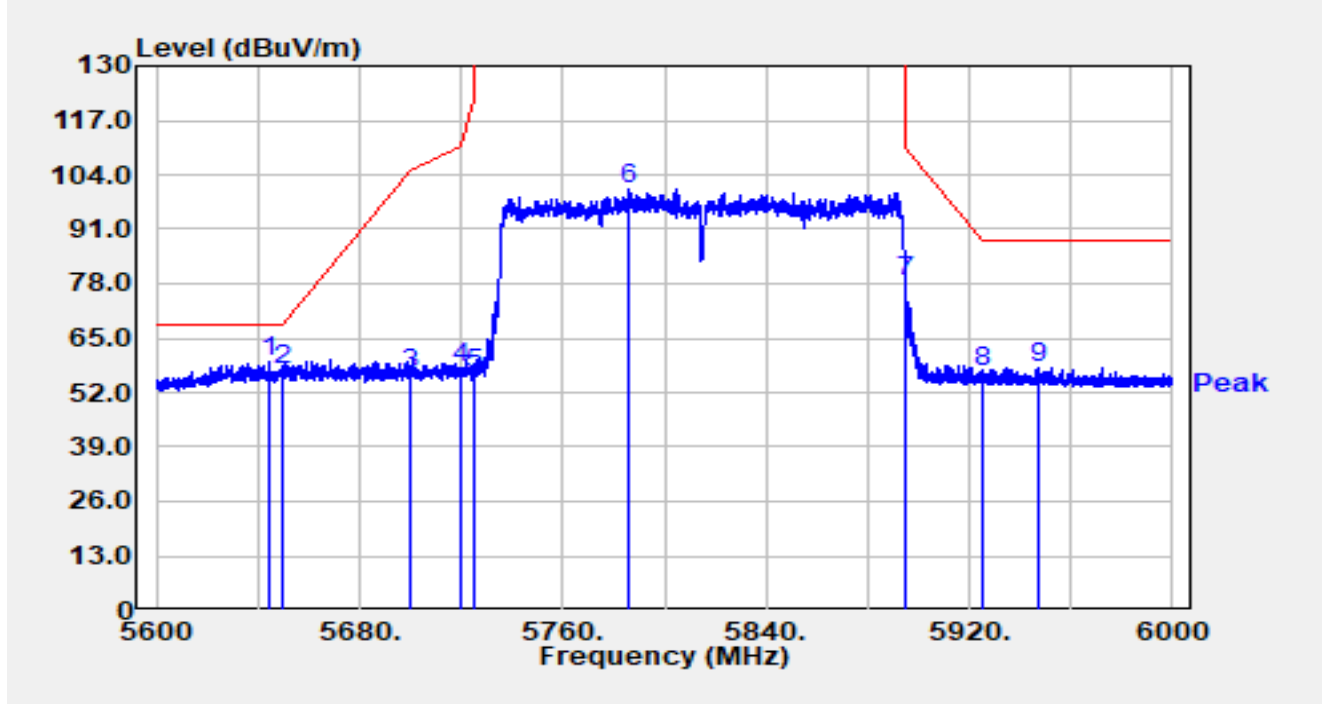


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5613.640	36.67	20.27	56.94	-11.26	68.20	Peak
2		5650.000	34.46	20.60	55.05	-13.15	68.20	Peak
3		5700.000	35.25	20.96	56.21	-48.99	105.20	Peak
4		5720.000	34.05	21.20	55.25	-55.55	110.80	Peak
5		5725.000	33.63	21.24	54.87	-67.33	122.20	Peak
6		5853.720	86.05	21.52	107.58	N/A	N/A	Peak
7		5895.000	67.51	21.52	89.03	-60.97	150.00	Peak
8		5925.000	41.33	21.59	62.92	-25.28	88.20	Peak
9		5927.800	46.91	21.61	68.52	-19.68	88.20	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) -AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11be-EHT160 at 5815MHz		

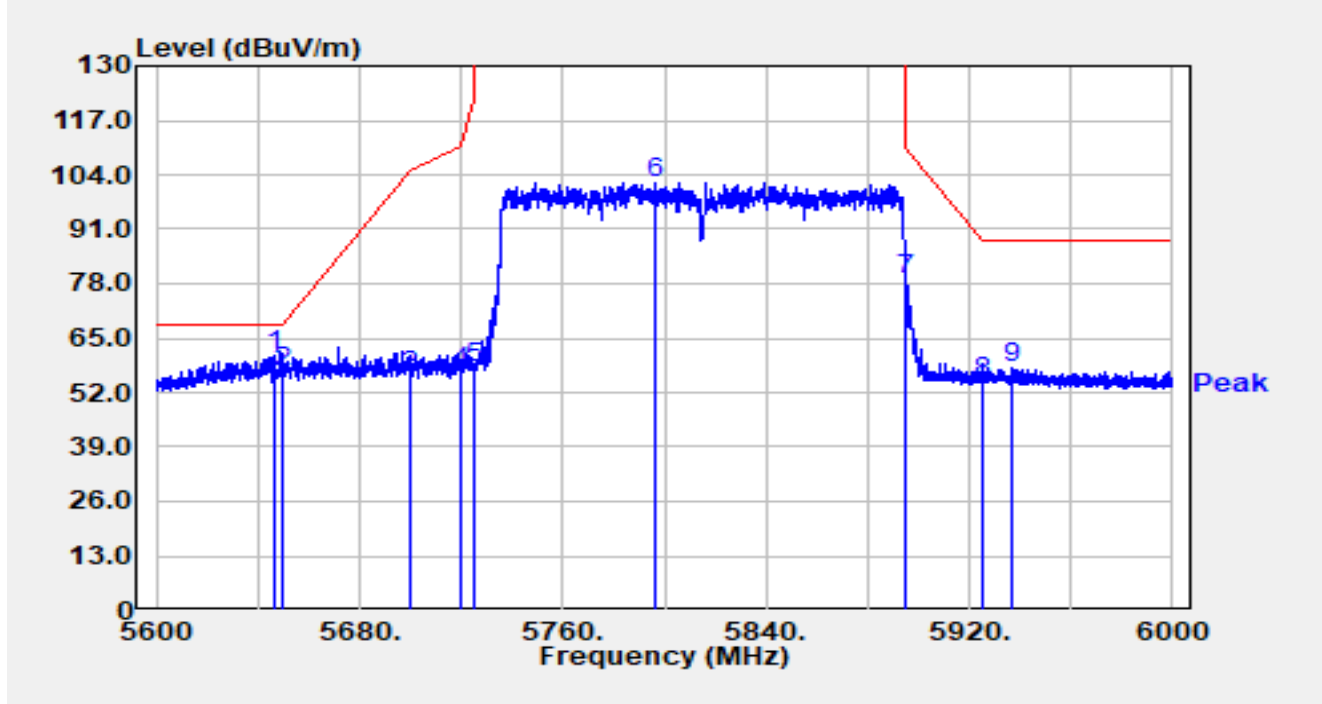


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5644.120	38.65	20.65	59.30	-8.90	68.20	Peak
2		5650.000	36.98	20.60	57.58	-10.62	68.20	Peak
3		5700.000	35.29	20.96	56.25	-48.95	105.20	Peak
4		5720.000	36.64	21.20	57.84	-52.96	110.80	Peak
5		5725.000	35.09	21.24	56.33	-65.87	122.20	Peak
6		5786.240	79.12	21.43	100.55	N/A	N/A	Peak
7		5895.000	57.01	21.52	78.53	-71.47	150.00	Peak
8		5925.000	35.54	21.59	57.13	-31.07	88.20	Peak
9		5947.240	36.33	21.66	57.99	-30.21	88.20	Peak

Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) -AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

Site	WZ-AC2	Test Date	2024-10-23
Temperature	23.7°C	Humidity	40.7%
Limit	FCC_5.9G_RE(3m)	Test Engineer	Bob Zhang
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11be-EHT160 at 5815MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1	*	5646.600	40.38	20.63	61.01	-7.19	68.20	Peak
2		5650.000	36.16	20.60	56.76	-11.44	68.20	Peak
3		5700.000	35.11	20.96	56.07	-49.13	105.20	Peak
4		5720.000	35.84	21.20	57.04	-53.76	110.80	Peak
5		5725.000	36.76	21.24	58.00	-64.20	122.20	Peak
6		5796.040	80.69	21.51	102.20	N/A	N/A	Peak
7		5895.000	57.66	21.52	79.18	-70.82	150.00	Peak
8		5925.000	32.87	21.59	54.47	-33.73	88.20	Peak
9		5936.840	36.41	21.63	58.04	-30.16	88.20	Peak

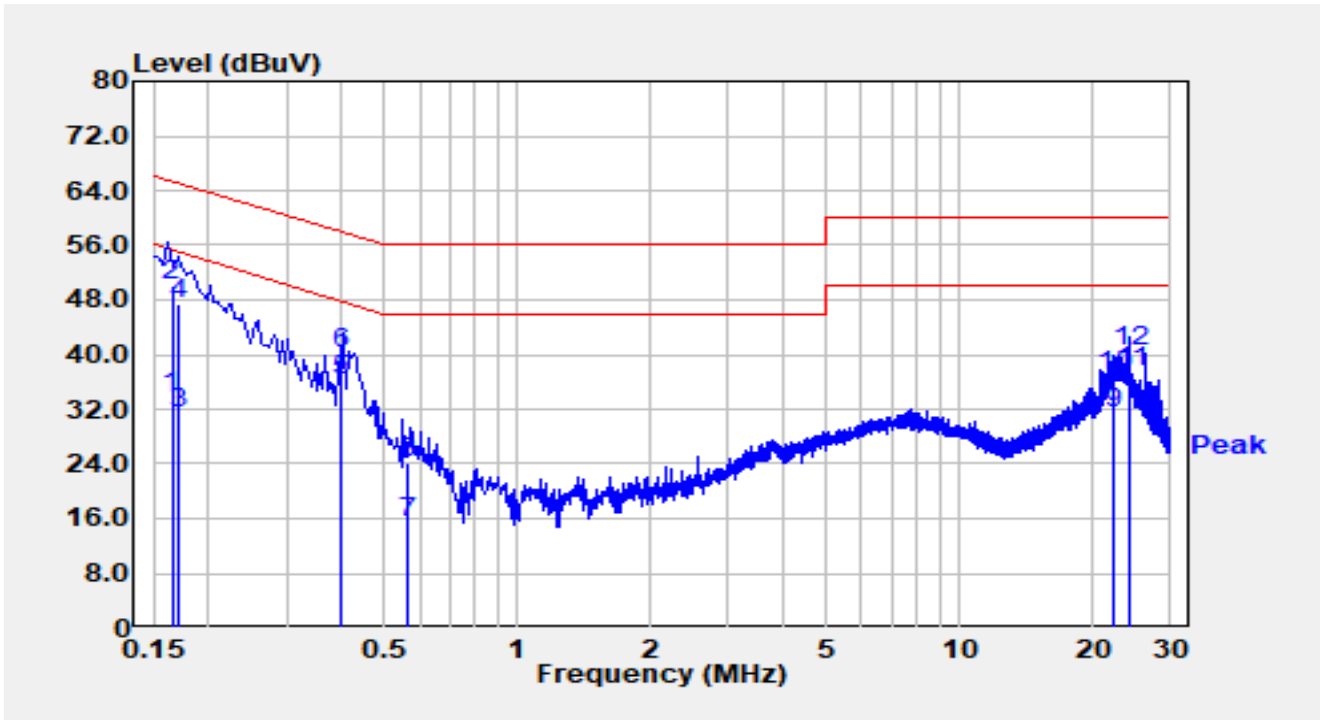
Notes:

1. " *", means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) + 16dB Attenuation (dB) -AMP (dB).
3. Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m)

A.9 AC Conducted Emissions Test Result

Refer to MRT report No. 2311RSU031-U5 clause A.9

Site	WZ-SR2	Test Date	2024-10-31
Test Engineer	Linda Wei	Temp./Humidity	22.8°C/61.1%
Factor	ENV216_101683_L1_Filter Off_C	Polarity	Line
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ax-HE20 at 5845MHz		



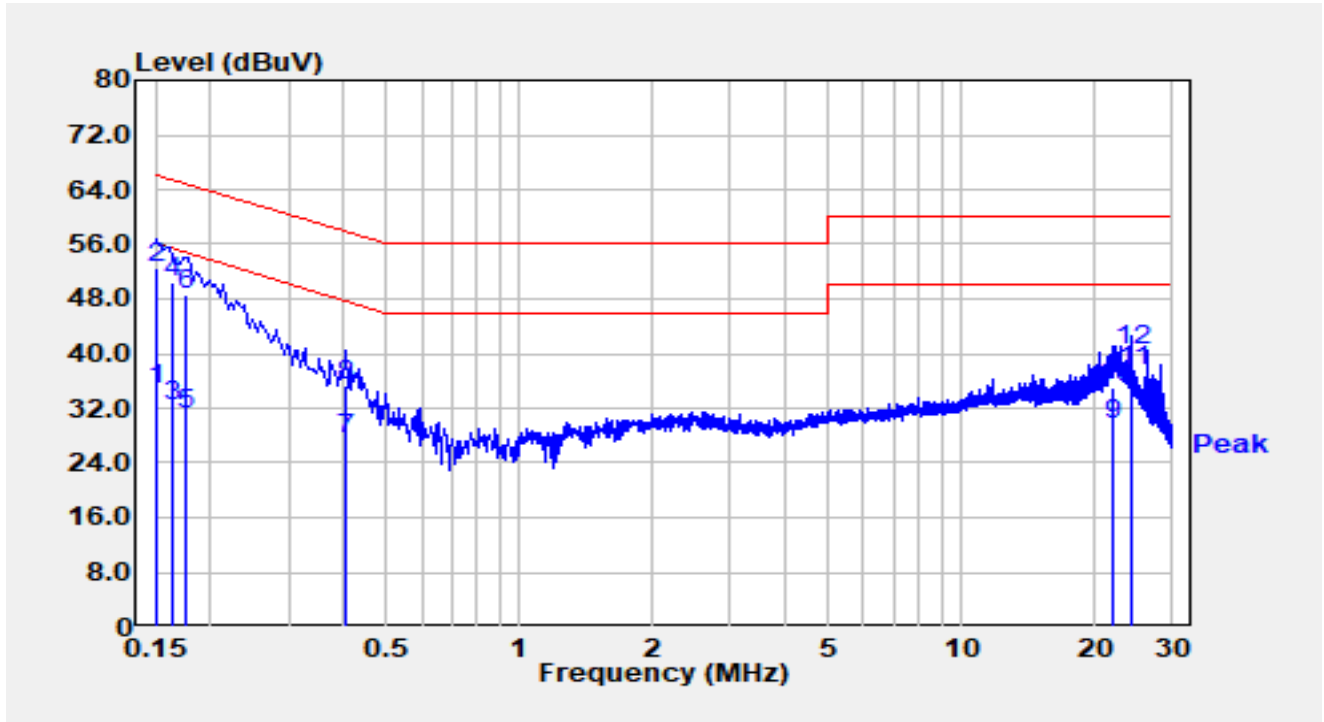
No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.165	24.00	9.82	33.82	-21.39	55.21	Average
2		0.165	40.20	9.82	50.02	-15.19	65.21	QP
3		0.170	21.50	9.82	31.32	-23.64	54.96	Average
4		0.170	37.50	9.82	47.32	-17.64	64.96	QP
5	*	0.401	26.30	9.88	36.18	-11.65	47.83	Average
6		0.401	30.20	9.88	40.08	-17.75	57.83	QP
7		0.563	5.40	9.94	15.34	-30.66	46.00	Average
8		0.563	14.10	9.94	24.04	-31.96	56.00	QP
9		22.340	20.40	10.95	31.35	-18.65	50.00	Average
10		22.340	25.80	10.95	36.75	-23.25	60.00	QP
11		24.360	26.50	10.88	37.38	-12.62	50.00	Average
12		24.360	29.70	10.88	40.58	-19.42	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	2024-10-31
Test Engineer	Linda Wei	Temp./Humidity	22.8°C/61.1%
Factor	ENV216_101683_N_Filter Off_C	Polarity	Neutral
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ax-HE20 at 5845MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB)	Measurement (dBμV)	Margin (dB)	Limit (dBμV)	Detector
1		0.150	24.50	10.13	34.63	-21.37	56.00	Average
2		0.150	42.50	10.13	52.63	-13.37	66.00	QP
3		0.164	22.20	10.12	32.32	-22.94	55.26	Average
4		0.164	40.20	10.12	50.32	-14.94	65.26	QP
5		0.175	20.90	10.12	31.02	-23.70	54.72	Average
6		0.175	38.60	10.12	48.72	-16.00	64.72	QP
7		0.406	17.20	10.14	27.34	-20.39	47.73	Average
8		0.406	25.30	10.14	35.44	-22.29	57.73	QP
9		21.920	18.30	11.18	29.48	-20.52	50.00	Average
10		21.920	23.70	11.18	34.88	-25.12	60.00	QP
11	*	24.360	26.40	11.13	37.53	-12.47	50.00	Average
12		24.360	29.30	11.13	40.43	-19.57	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 “2409RSU050-UT” file.

Appendix C – EUT Photograph

Refer to “2409RSU050-UE” file.

The End
