RF MEASUREMENT REPORT

FCC ID:	Q9DAPIN0635A
Applicant:	Hewlett Packard Enterprise Company
Product:	ACCESS POINT
Model No.:	APIN0635A
Trademark:	Hewlett Packard Enterprise , HPE aruba networking
FCC Classification:	Unlicensed National Information Infrastructure (NII)
FCC Rule Part(s):	Part 15 Subpart E (Section 15.407)
Result:	Complies
Received Date:	2024-11-14
Test Date:	2024-12-04 ~ 2025-02-06

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

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
2411RSU027-U5	V01	Initial Report	2025-02-08	Valid

Note 1: The APIN0635A is a variation on the existing APIN0635. The APIN0635 is currently FCC certified under FCC ID: Q9DAPIN0635.

The APIN0635A differs from the APIN0635 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

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		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
Model No.	APIN0635A
Serial No.	CNSXMLT01P
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Bluetooth Specification	v5.0 single mode, BLE only
ZigBee Specification	802.15.4
Antenna Information	Refer to Section 1.7
Power Type	AC Adapter or PoE input
Operating Environment	Indoor Use
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5845MHz, 5865MHz, 5885MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5835MHz, 5875MHz For 802.11ac-VHT80/ax-HE80: 5855MHz	
Type of Modulation	802.11a/n/ac: OFDM 802.11ax: OFDMA	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.6Mbps 802.11ax: up to 1201Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

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

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

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

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

802.11ac-VHT80/ax-HE80

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

1.7. Antenna Details

Antenna Type	Frequency Band (GHz)	Max Peak Gain (dBi)	CDD Directional Gain (dBi)		BF Directional Gain (dBi)
			For Power	For PSD	
Wi-Fi Internal Antenna (2*2 MIMO)					
PIFA	2.4 ~ 2.5	2.90	2.90	5.91	5.91
	5.15 ~ 5.9	4.90	4.90	7.91	7.91
	5.9 ~ 7.2	4.30	4.30	4.30	4.30
Bluetooth / ZigBee Internal Antenna					
PIFA	2.4 ~ 2.5	3.0			

Note:

1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

For CDD transmissions, directional gain is calculated as follows, N_{ANT} = 2, N_{SS} = 1.

If all antennas have the same gain, G_{ANT}, Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

  Array Gain = 10 log (N_{ANT}/ N_{SS}) dB = 3.01;

- For power measurements on IEEE 802.11 devices,

  Array Gain = 0 dB for $N_{ANT} \leq 4$;

2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax, not include 802.11a/b/g. Directional gain = G_{ANT} + BF Gain. BF mode power setting will be less than or equal to CDD power setting.
3. Wi-Fi 6E band antennas are cross polarized, the detail refer to antenna specification.
4. All antenna information is provided by the manufacturer, test laboratory will not be responsible if any error.

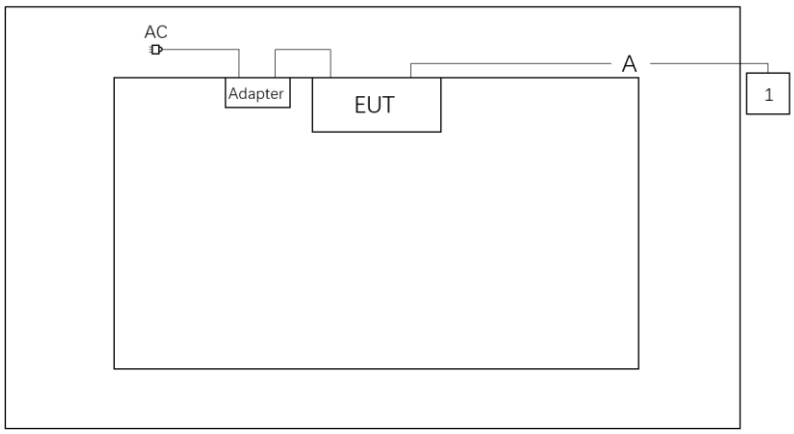
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11a (6Mbps)
Mode 2: Transmit by 802.11ac-VHT20_N_{SS}=1 (MCS0)
Mode 3: Transmit by 802.11ac-VHT40_N_{SS}=1 (MCS0)
Mode 4: Transmit by 802.11ac-VHT80_N_{SS}=1 (MCS0)
Mode 5: Transmit by 802.11ax-HE20_N_{SS}=1 (MCS0)
Mode 6: Transmit by 802.11ax-HE40_N_{SS}=1 (MCS0)
Mode 7: Transmit by 802.11ax-HE80_N_{SS}=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 N_{SS} and power level is the same of spatial multiplexing. The worst case is N_{SS}=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.



Cable Type		Cable Spec.	Length
A	Ethernet Cable	Non-Shielding, Cat 5e	>10.0m
Product		Manufacturer	Model No.
1	Notebook	Dell	Latitude 5491

2.3. Test Software

The test utility software used during testing was “QSPR”, and the version was 5.0-0019.

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
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-AC1
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2025-01-11	WZ-AC1
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WZ-AC1
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2025-12-05	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	2025-10-13	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1
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
Signal Generator	Keysight	N5182B	MRTSUE06451	1 year	2025-06-03	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
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	2025-12-10	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
Controller_MF 7802	2.03C	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: 3.02dB 150kHz~30MHz: 2.56dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.35dB Coplanar: 9kHz~30MHz: 2.37dB Horizontal: 30MHz~200MHz: 3.46dB 200MHz~1GHz: 3.78dB 1GHz~40GHz: 4.97dB Vertical: 30MHz~200MHz: 4.07dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.78dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.3dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.6%

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:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
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. 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

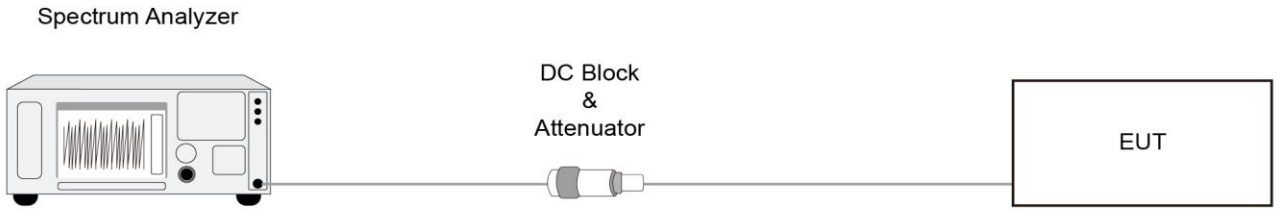
26dB Bandwidth

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 ≥ 3×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 6dBbandwidth shall be at least 500 kHz.

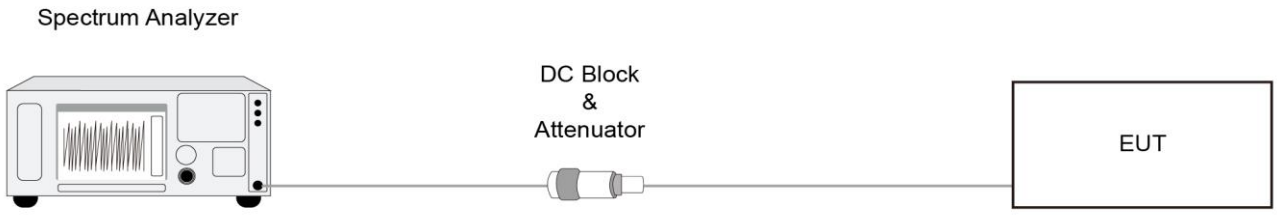
6.3.2. Test Procedure

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 ≥ 3 × 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

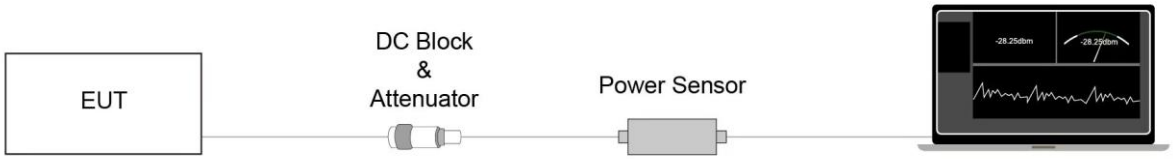
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

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.

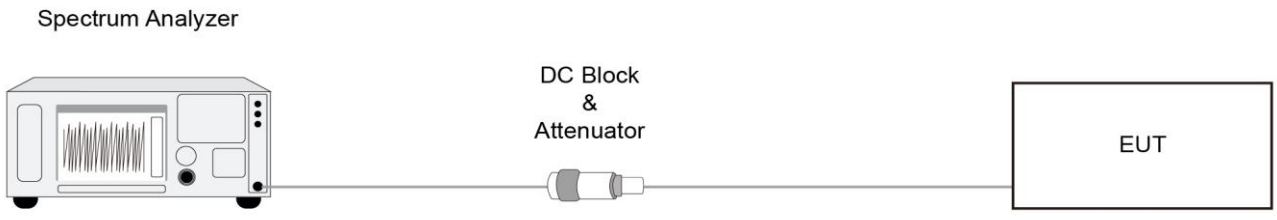
6.5.2. Test Procedure

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 × RBW
5. Number of sweep points ≥ 2 × (span / 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*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*log(1/0.25) = 6 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:

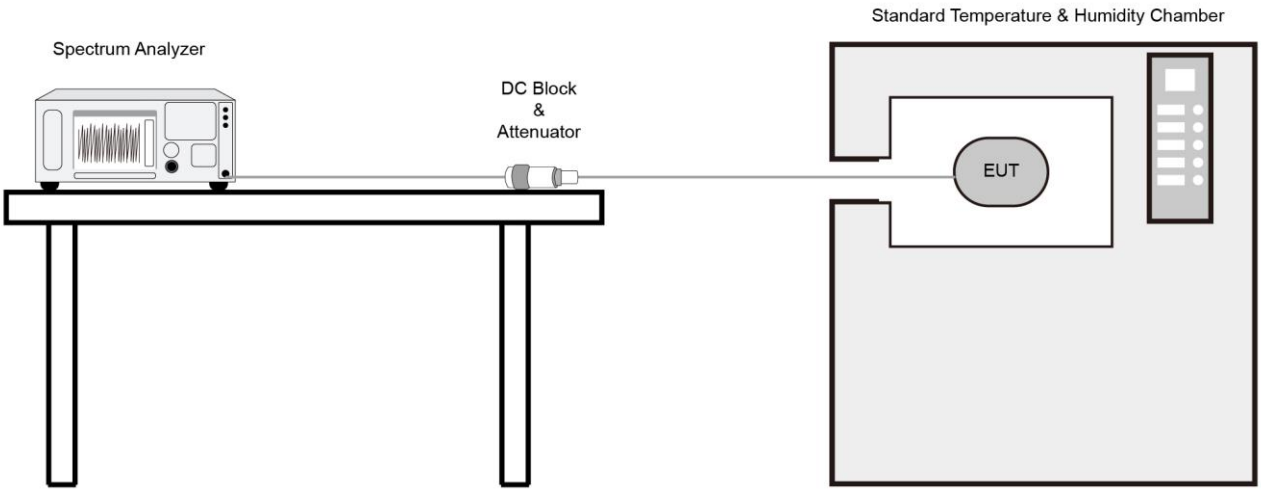
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain 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 (±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 [μV/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 ≥ 98%, set VBW = 10Hz

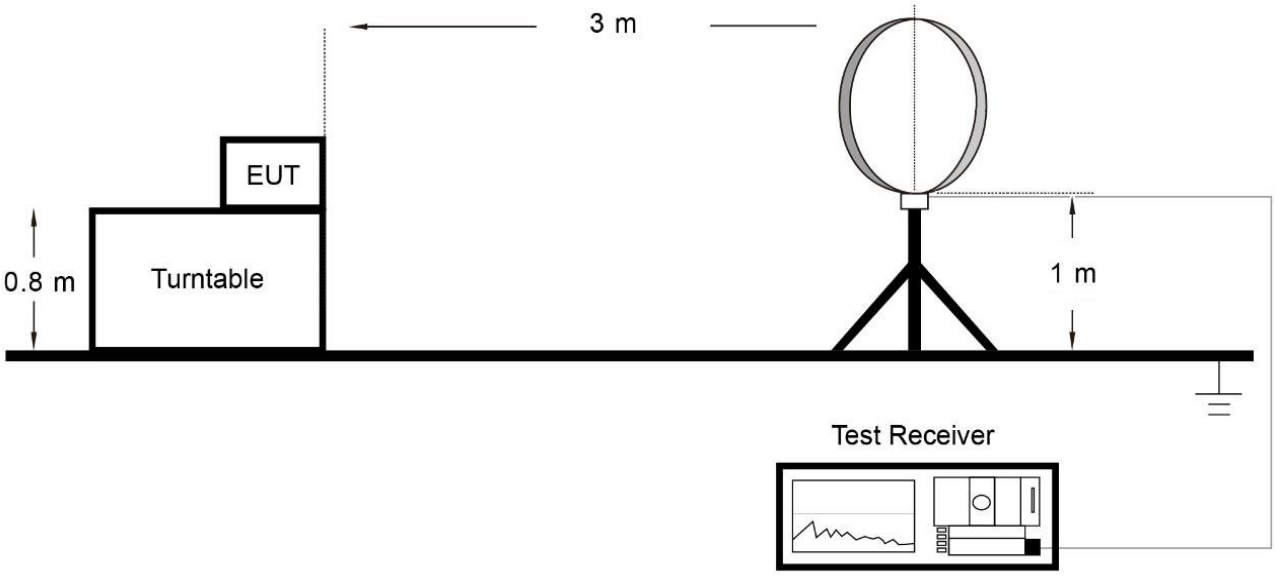
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

802.11a	VBW = 750Hz	802.11ax-HE20	VBW = 200Hz
802.11ac-VHT20	VBW = 100Hz	802.11ax-HE40	VBW = 200Hz
802.11ac-VHT40	VBW = 200Hz	802.11ax-HE80	VBW = 200Hz
802.11ac-VHT80	VBW = 200Hz	--	--

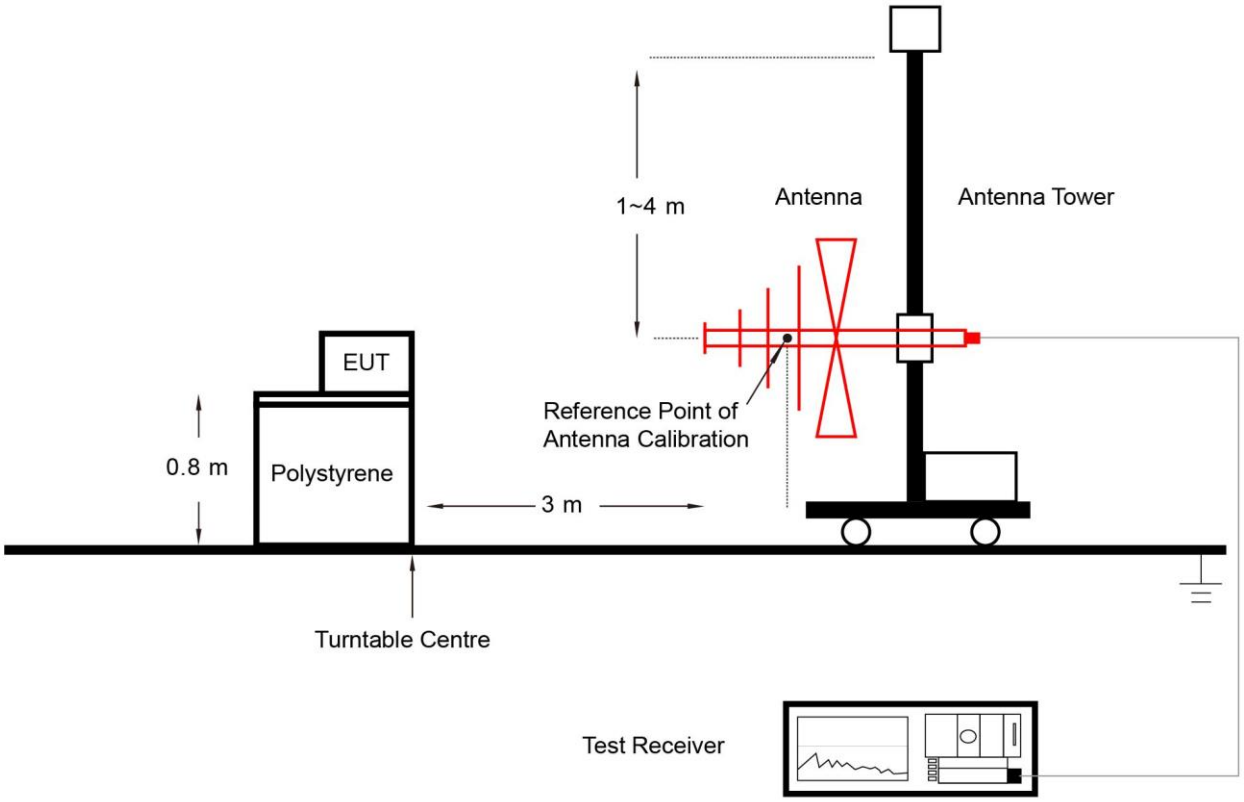
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can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

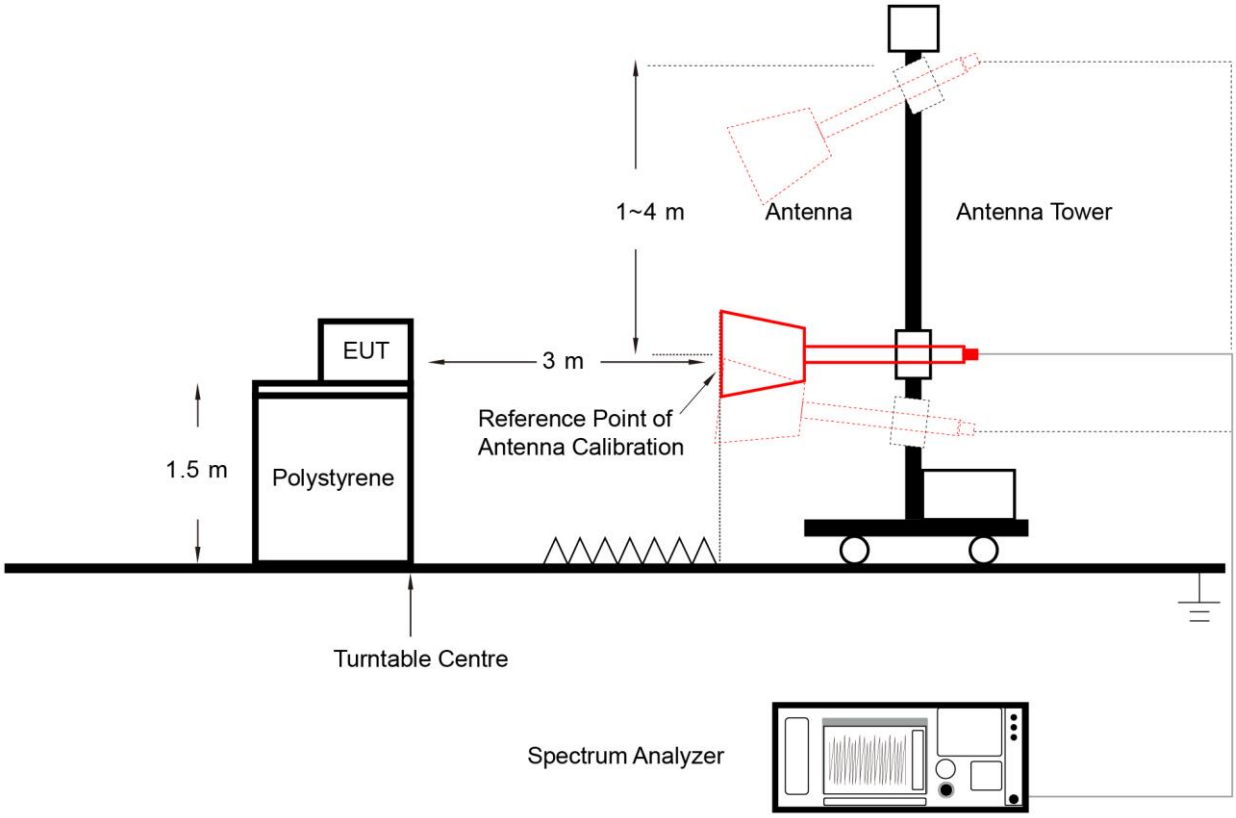
Below 30MHz Test Setup:



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 [dBµV/m] = EIRP [dBm] + 95.2, for example, -27 dBm/MHz = 68.2 dBµV/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)

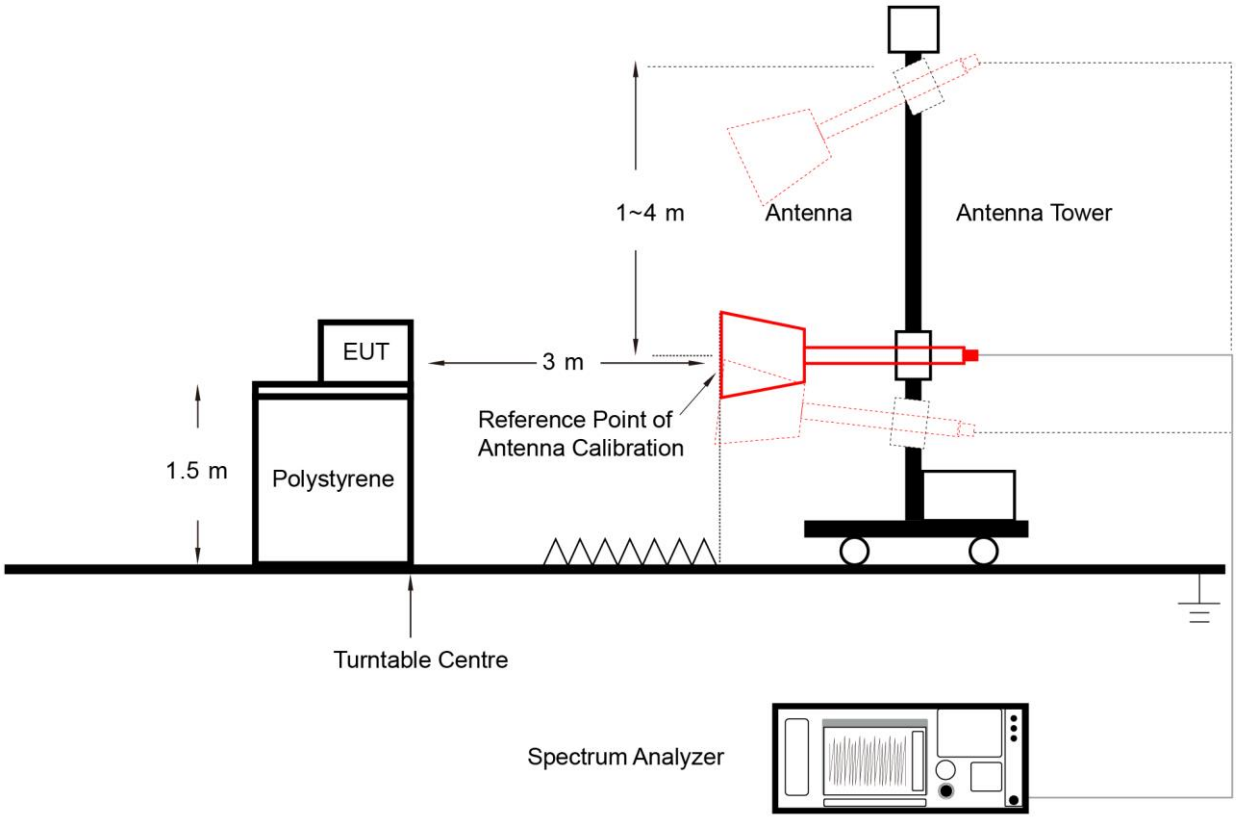
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

802.11a	VBW = 750Hz	802.11ax-HE20	VBW = 200Hz
802.11ac-VHT20	VBW = 100Hz	802.11ax-HE40	VBW = 200Hz
802.11ac-VHT40	VBW = 200Hz	802.11ax-HE80	VBW = 200Hz
802.11ac-VHT80	VBW = 200Hz	--	--

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

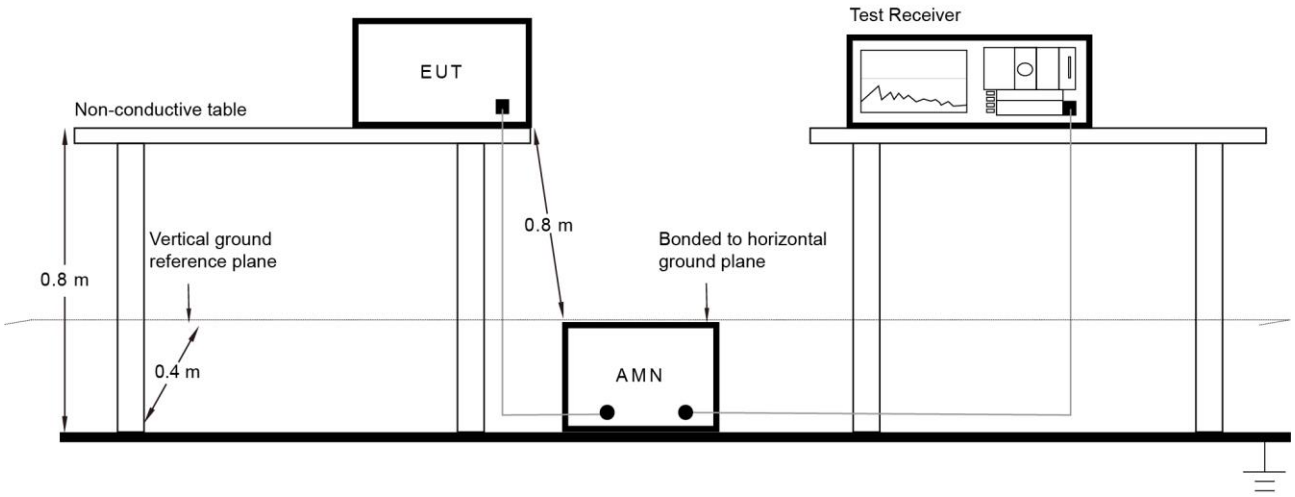
Refer to Appendix A.8.

6.9. AC Conducted Emissions Measurement

6.9.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (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.		

6.9.2. 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. 2201RSU050-U1 clause A.1

A.2 26dB & 99% Bandwidth Test Result

Refer to MRT report No. 2201RSU050-U1 clause A.2

Spot Check:

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-02-06		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)
11ax-HE80	MCS0	171	5855	77.391	82.29

802.11ax-HE80 26dB & 99% Bandwidth

Channel 171 (5855MHz)

A.3 6dB Bandwidth Test Result

Refer to MRT report No. 2201RSU050-U1 clause A.3

Spot Check:

Test Site	WZ-SR5	Test Engineer	Jeff Yang
Test Date	2025-02-06		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11ax-HE80	MCS0	171	5855	77.67	≥ 0.5

802.11ax-HE80 6dB Bandwidth

Channel 171 (5865MHz)

A.4 Output Power Test Result

5G_PFB (M5232)

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-12-04		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Directional Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1				
11a	6Mbps	169	5845	17.67	17.51	20.60	4.90	25.50	≤ 36.00
11a	6Mbps	173	5865	17.45	17.47	20.47	4.90	25.37	≤ 36.00
11a	6Mbps	177	5885	17.85	17.87	20.87	4.90	25.77	≤ 36.00
11ac-VHT20	MCS0	169	5845	17.61	17.58	20.61	4.90	25.51	≤ 36.00
11ac-VHT20	MCS0	173	5865	17.45	17.51	20.49	4.90	25.39	≤ 36.00
11ac-VHT20	MCS0	177	5885	17.75	17.94	20.86	4.90	25.76	≤ 36.00
11ac-VHT40	MCS0	167	5835	17.90	17.54	20.73	4.90	25.63	≤ 36.00
11ac-VHT40	MCS0	175	5875	17.76	17.51	20.65	4.90	25.55	≤ 36.00
11ac-VHT80	MCS0	171	5855	17.62	17.43	20.54	4.90	25.44	≤ 36.00
11ax-HE20	MCS0	169	5845	18.17	17.97	21.08	4.90	25.98	≤ 36.00
11ax-HE20	MCS0	173	5865	17.97	17.90	20.95	4.90	25.85	≤ 36.00
11ax-HE20	MCS0	177	5885	17.85	17.83	20.85	4.90	25.75	≤ 36.00
11ax-HE40	MCS0	167	5835	17.87	17.50	20.70	4.90	25.60	≤ 36.00
11ax-HE40	MCS0	175	5875	17.33	17.49	20.42	4.90	25.32	≤ 36.00
11ax-HE80	MCS0	171	5855	17.64	17.49	20.58	4.90	25.48	≤ 36.00

Note 1: Total Average Power (dBm) = 10*log {$10^{(\text{Ant 0 Average Power /10})}$ + $10^{(\text{Ant 1 Average Power /10})}$}.

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

5G_HB (B8394)

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-01-15		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Directional Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				Ant 0	Ant 1				
11a	6Mbps	169	5845	17.42	17.29	20.37	4.90	25.27	≤ 36.00
11a	6Mbps	173	5865	17.35	16.97	20.17	4.90	25.07	≤ 36.00
11a	6Mbps	177	5885	17.42	17.02	20.23	4.90	25.13	≤ 36.00
11ac-VHT20	MCS0	169	5845	17.33	17.16	20.26	4.90	25.16	≤ 36.00
11ac-VHT20	MCS0	173	5865	17.37	17.03	20.21	4.90	25.11	≤ 36.00
11ac-VHT20	MCS0	177	5885	17.68	17.27	20.49	4.90	25.39	≤ 36.00
11ac-VHT40	MCS0	167	5835	17.40	17.24	20.33	4.90	25.23	≤ 36.00
11ac-VHT40	MCS0	175	5875	17.57	17.18	20.39	4.90	25.29	≤ 36.00
11ac-VHT80	MCS0	171	5855	17.62	17.28	20.46	4.90	25.36	≤ 36.00
11ax-HE20	MCS0	169	5845	18.05	18.02	21.05	4.90	25.95	≤ 36.00
11ax-HE20	MCS0	173	5865	17.98	17.58	20.79	4.90	25.69	≤ 36.00
11ax-HE20	MCS0	177	5885	17.72	17.32	20.53	4.90	25.43	≤ 36.00
11ax-HE40	MCS0	167	5835	17.40	17.17	20.30	4.90	25.20	≤ 36.00
11ax-HE40	MCS0	175	5875	17.51	17.08	20.31	4.90	25.21	≤ 36.00
11ax-HE80	MCS0	171	5855	17.62	17.35	20.50	4.90	25.40	≤ 36.00

Note 1: Total Average Power (dBm) = $10*\log\{10^{(\text{Ant 0 Average Power }/10)} + 10^{(\text{Ant 1 Average Power }/10)}\}$.

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

A.5 Power Spectral Density Test Result

Refer to MRT report No. 2201RSU050-U1 clause A.5

Spot Check:

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-12-06		

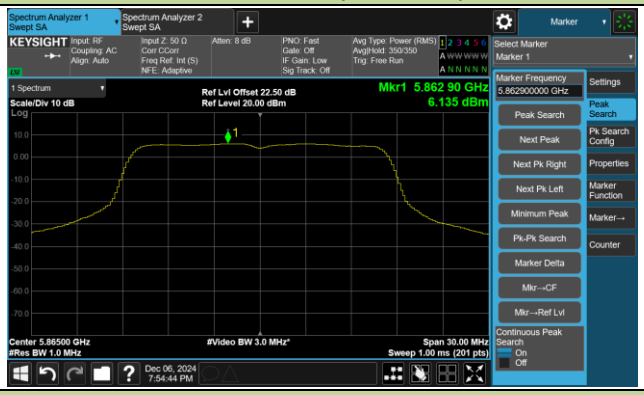
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVGPSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	EIRP PSD (dBm/ MHz)	EIRP PSD Limit (dBm/MHz)
				Ant 0	Ant 1				
11a	6Mbps	173	5865	6.135	6.007	92.98	9.398	17.308	≤ 20.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 1 AVGPSD}/10)}$} +10*log (1/Duty cycle).

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

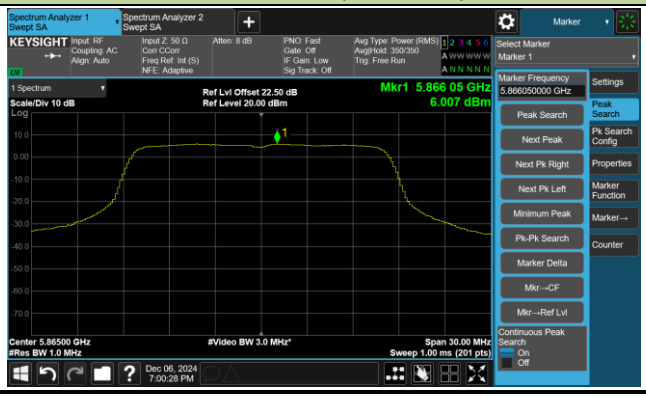
802.11a Power Spectral Density - Ant 0

Channel 173 (5865MHz)



802.11a Power Spectral Density - Ant 1

Channel 173 (5865MHz)



A.6 Frequency Stability Test Result

Refer to MRT report No. 2201RSU050-U1 clause A.6

Spot Check:

Test Site	WZ-TR3	Test Engineer	Jeff Yang
Test Date	2025-02-06		
Test Mode	5845MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)
100	120	0	2.04

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10^6.

A.7 Radiated Spurious Emission Test Result

Refer to MRT report No. 2201RSU050-U1 clause A.7

Spot Check:

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2024-12-14	Test Mode	802.11a – Channel 169
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
*	10008.3	34.0	13.1	47.1	108.2	-61.1	Peak	Horizontal
	11696.4	36.7	17.1	53.8	74.0	-20.2	Peak	Horizontal
	11696.4	29.1	17.1	46.2	54.0	-7.8	Average	Horizontal
*	17019.1	30.7	21.1	51.8	108.2	-56.4	Peak	Horizontal
	18000.0	31.0	28.3	59.3	74.0	-14.7	Peak	Horizontal
	18000.0	19.6	28.3	47.9	54.0	-6.1	Average	Horizontal
*	9916.5	33.6	13.2	46.8	108.2	-61.4	Peak	Vertical
	11689.6	41.5	17.0	58.5	74.0	-15.5	Peak	Vertical
	11689.6	32.6	17.0	49.6	54.0	-4.4	Average	Vertical
*	17221.4	31.3	21.8	53.1	108.2	-55.1	Peak	Vertical
	17892.9	30.5	28.5	59.0	74.0	-15.0	Peak	Vertical
	17892.9	19.6	28.5	48.1	54.0	-5.9	Average	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	2024-12-14	Test Mode	802.11ax-HE40 – 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
	11883.4	35.6	16.9	52.5	74.0	-21.5	Peak	Horizontal
	11883.4	30.1	16.9	47.0	54.0	-7.0	Average	Horizontal
*	14042.4	35.6	19.3	54.9	108.2	-53.3	Peak	Horizontal
*	14849.9	35.1	19.0	54.1	108.2	-54.1	Peak	Horizontal
	17991.5	35.0	28.5	63.5	74.0	-10.5	Peak	Horizontal
	17991.5	19.9	28.5	48.4	54.0	-5.6	Average	Horizontal
	11757.6	35.8	16.8	52.6	74.0	-21.4	Peak	Vertical
	11757.6	29.6	16.8	46.4	54.0	-7.6	Average	Vertical
*	13869.0	35.7	19.2	54.9	108.2	-53.3	Peak	Vertical
*	14902.6	35.1	18.7	53.8	108.2	-54.4	Peak	Vertical
	17891.2	35.5	28.5	64.0	74.0	-10.0	Peak	Vertical
	17891.2	19.9	28.5	48.4	54.0	-5.6	Average	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	2024-12-14	Test Mode	802.11ax-HE80 – 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
	11475.4	35.1	17.1	52.2	74.0	-21.8	Peak	Horizontal
	11475.4	31.3	17.1	48.4	54.0	-5.6	Average	Horizontal
*	14008.4	35.0	18.9	53.9	108.2	-54.3	Peak	Horizontal
*	15171.2	36.4	17.8	54.2	108.2	-54.0	Peak	Horizontal
	17889.5	35.0	28.4	63.4	74.0	-10.6	Peak	Horizontal
	17889.5	20.3	28.4	48.7	54.0	-5.3	Average	Horizontal
	11737.2	35.6	17.1	52.7	74.0	-21.3	Peak	Vertical
	11737.2	30.2	17.1	47.3	54.0	-6.7	Average	Vertical
*	13889.4	35.7	19.1	54.8	108.2	-53.4	Peak	Vertical
*	15099.8	35.9	17.9	53.8	108.2	-54.4	Peak	Vertical
	17875.9	36.2	28.0	64.2	74.0	-9.8	Peak	Vertical
	17875.9	19.9	28.0	47.9	54.0	-6.1	Average	Vertical

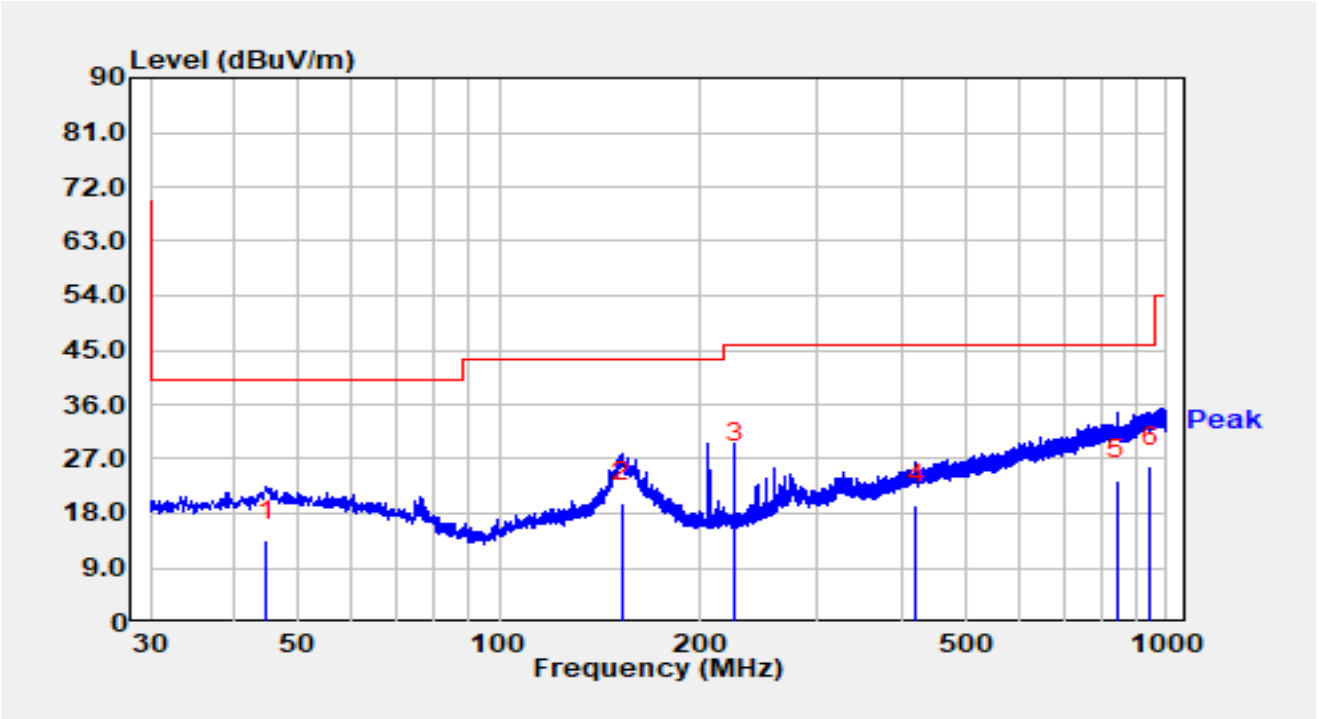
Note 1: “*” is not in restricted band.

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-AC1	Test Date	2024-12-28
Limit	FCC_5.9G_RE(3m)	Test Engineer	Ajin Fan
Factor	VULB 9168_25-1000MHz	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		44.841	-4.74	18.30	13.56	-26.44	40.00	QP
2		152.899	1.44	18.29	19.74	-23.76	43.50	QP
3	*	225.067	11.51	14.97	26.48	-19.52	46.00	QP
4		420.619	-2.43	21.80	19.37	-26.63	46.00	QP
5		843.054	-6.09	29.62	23.52	-22.48	46.00	QP
6		947.426	-4.85	30.60	25.74	-20.26	46.00	QP

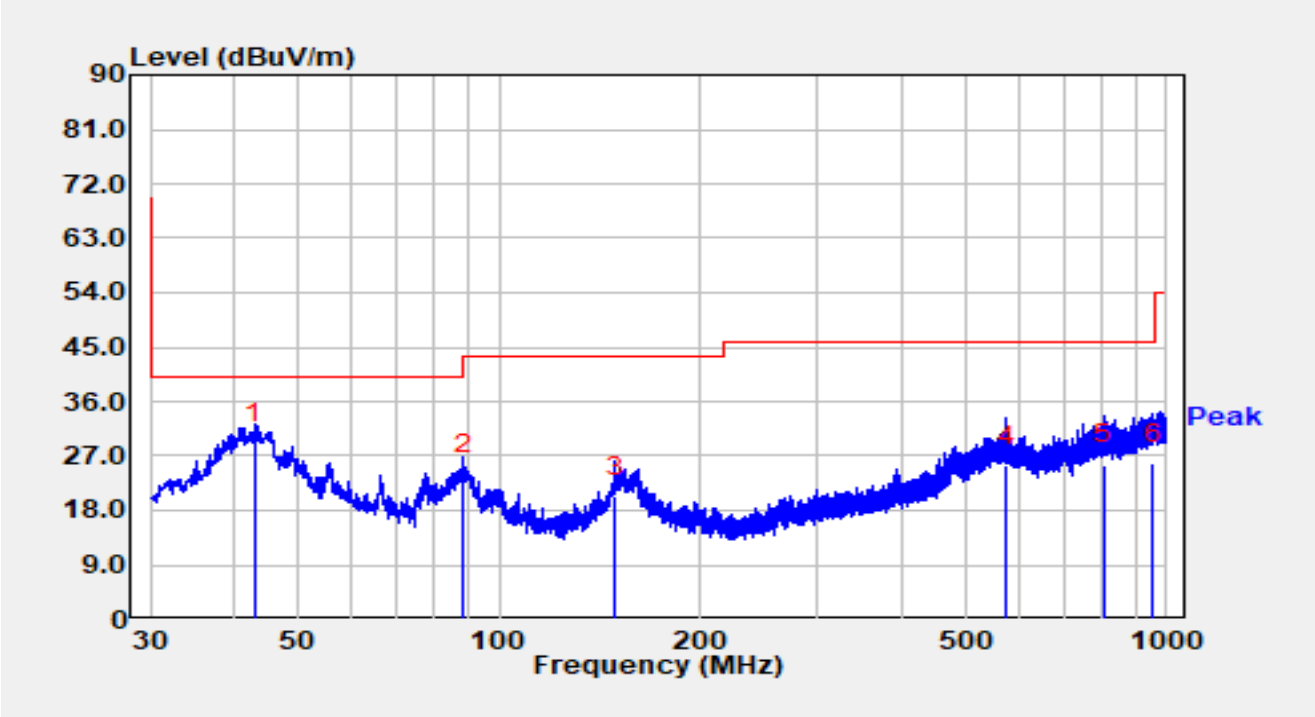
Notes:

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).

Site	WZ-AC1	Test Date	2024-12-28
Limit	FCC_5.9G_RE(3m)	Test Engineer	Ajin Fan
Factor	VULB 9168_25-1000MHz	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	*	42.998	11.04	18.17	29.20	-10.80	40.00	QP
2		88.200	10.87	13.04	23.92	-19.58	43.50	QP
3		149.019	2.10	18.19	20.29	-23.21	43.50	QP
4		576.013	0.24	25.18	25.42	-20.58	46.00	QP
5		804.254	-3.88	29.44	25.56	-20.44	46.00	QP
6		956.156	-4.93	30.73	25.80	-20.20	46.00	QP

Notes:

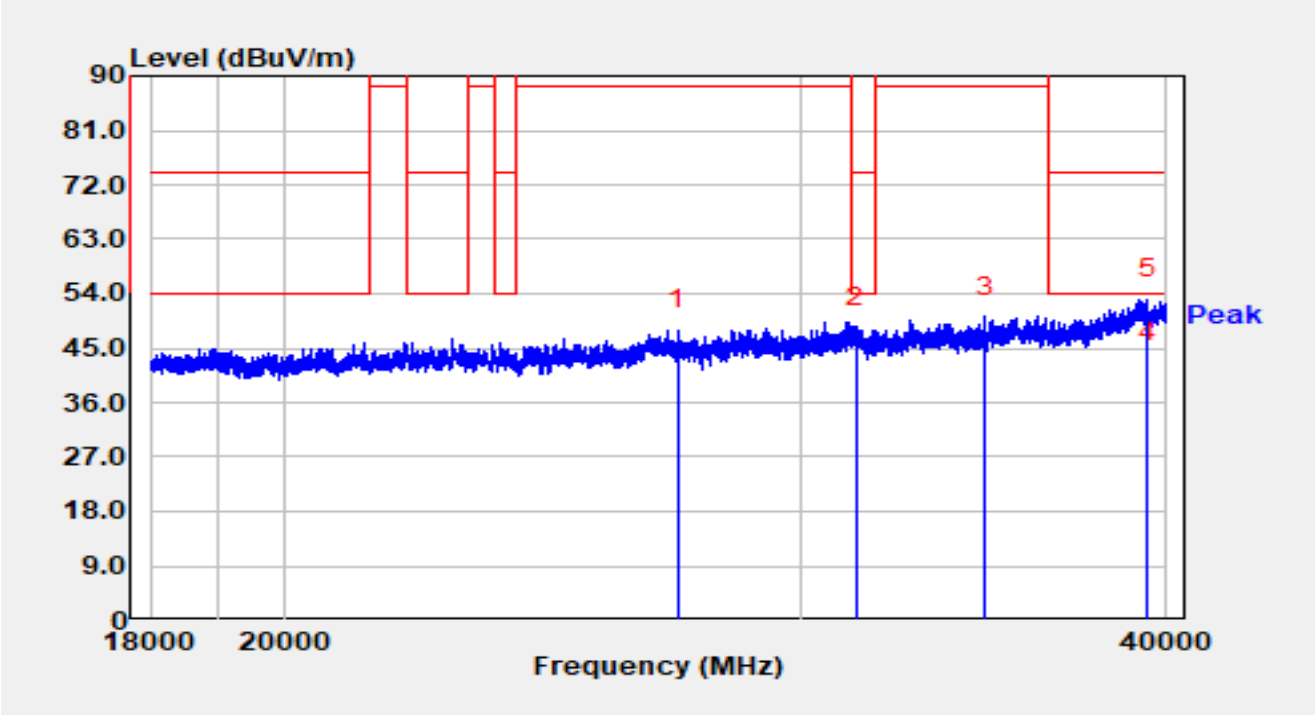
1. " *", means this data is the worst emission level.

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-AC1	Test Date	2025-01-01
Limit	FCC_5.9G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9170_549_18-40GHz	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		27251.000	54.14	-6.12	48.02	-60.18	108.20	Peak
2		31340.800	53.02	-4.61	48.41	-25.59	74.00	Peak
3		34698.000	55.77	-5.52	50.25	-57.95	108.20	Peak
4	*	39412.600	43.10	-0.32	42.78	-11.22	54.00	Average
5		39412.600	53.45	-0.32	53.12	-20.88	74.00	Peak

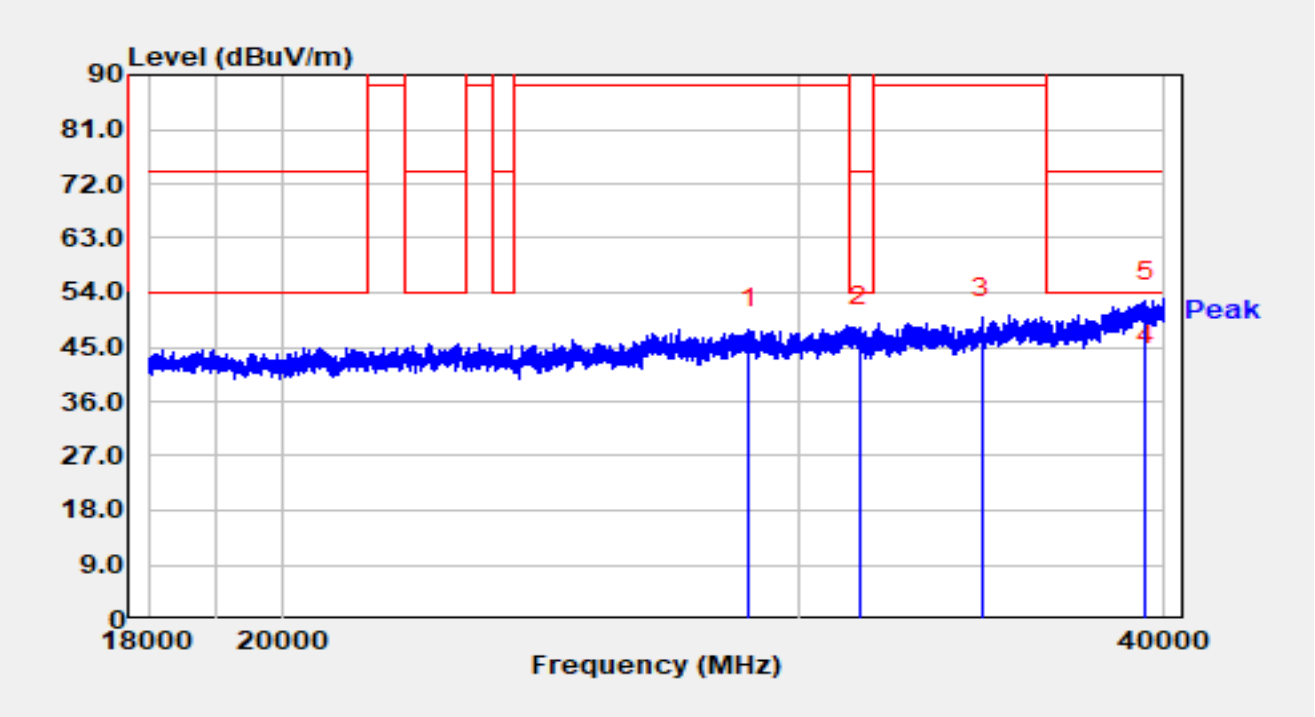
Notes:

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).

Site	WZ-AC1	Test Date	2025-01-01
Limit	FCC_5.9G_RE(3m)	Test Engineer	Ajin Fan
Factor	BBHA 9170_549_18-40GHz	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		28848.200	54.22	-6.19	48.03	-60.17	108.20	Peak
2		31466.200	52.92	-4.68	48.24	-25.76	74.00	Peak
3		34654.000	55.14	-5.27	49.87	-58.33	108.20	Peak
4	*	39406.000	42.16	-0.34	41.82	-12.18	54.00	Average
5		39406.000	52.92	-0.34	52.58	-21.42	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).

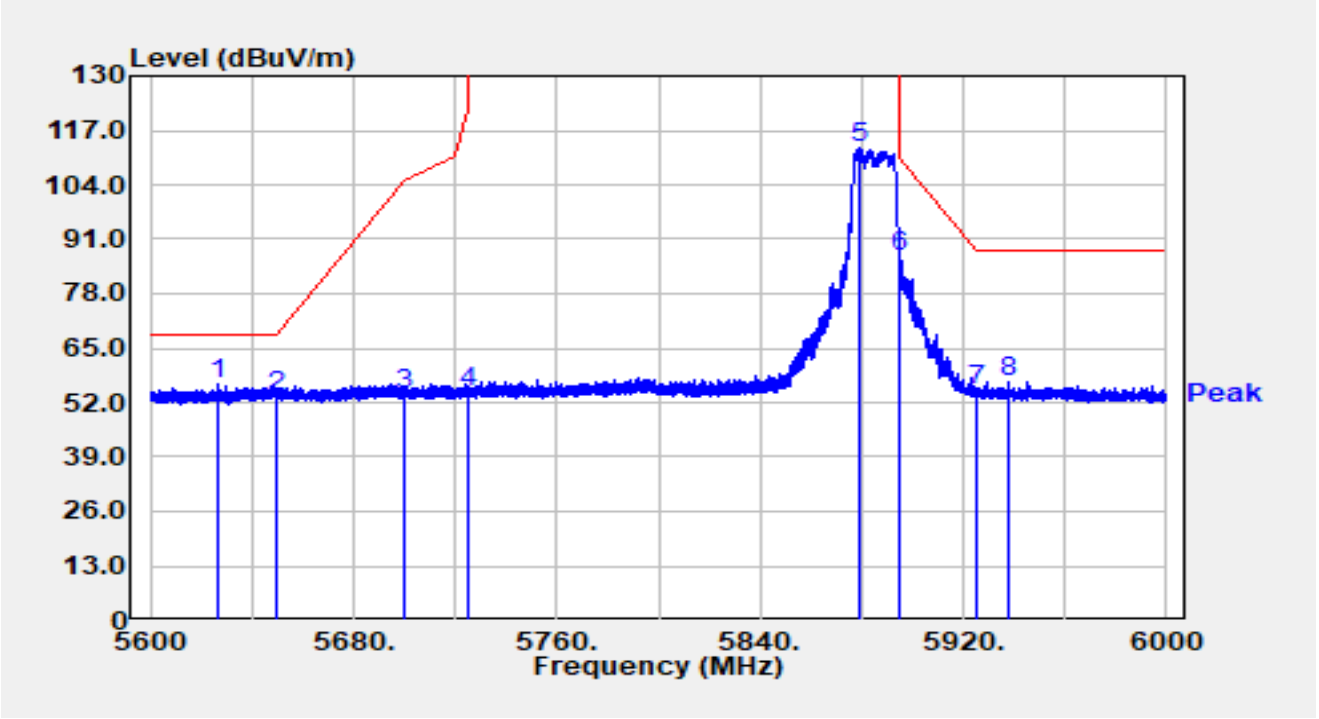
3. Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

A.8 Radiated Restricted Band Edge Test Result

Refer to MRT report No. 2201RSU050-U1 clause A.8

Spot Check:

Site	WZ-AC2	Test Date	2024-12-14
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
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	*	5626.600	35.64	20.55	56.19	-12.01	68.20	Peak
2		5650.000	32.78	20.60	53.38	-14.82	68.20	Peak
3		5700.000	33.09	20.96	54.05	-51.15	105.20	Peak
4		5725.000	33.16	21.24	54.39	-67.81	122.20	Peak
5		5879.200	91.36	21.59	112.96	N/A	N/A	Peak
6		5895.000	65.51	21.52	87.03	-62.97	150.00	Peak
7		5925.000	33.22	21.59	54.81	-33.39	88.20	Peak
8		5937.480	35.24	21.63	56.87	-31.33	88.20	Peak

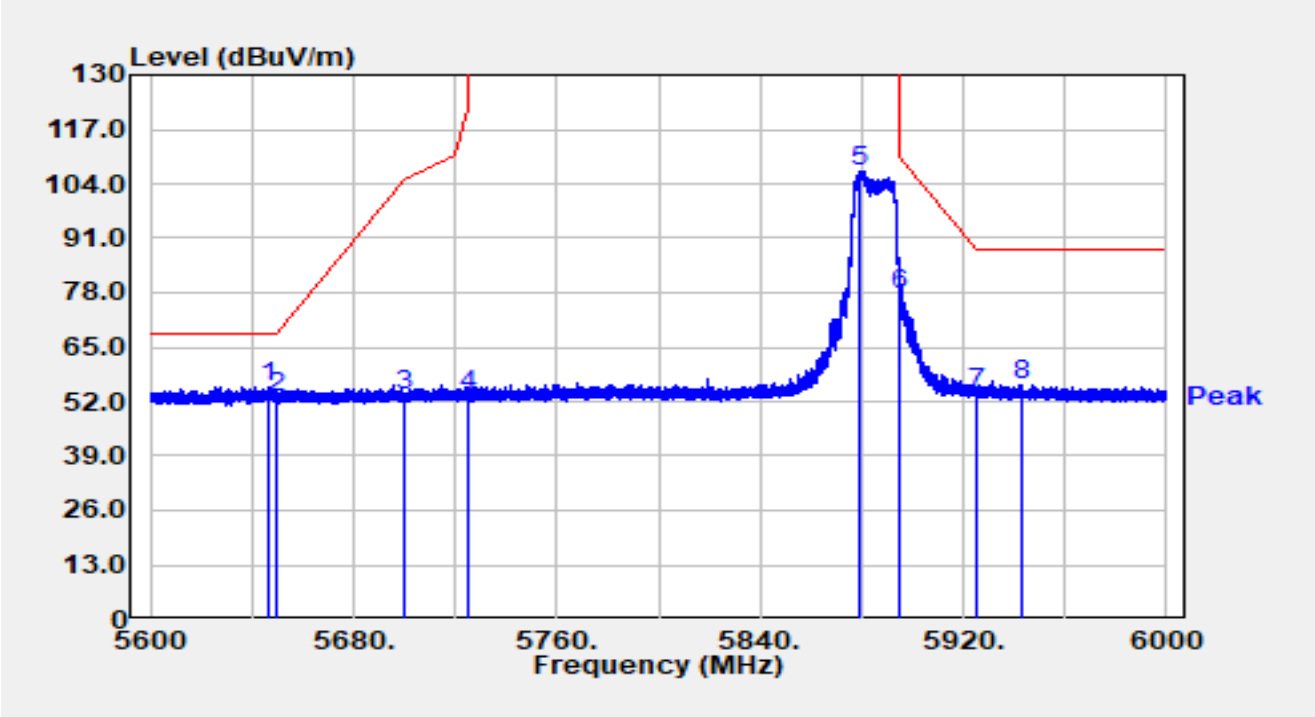
Notes:

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

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

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

Site	WZ-AC2	Test Date	2024-12-14
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
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	*	5646.600	35.00	20.63	55.63	-12.57	68.20	Peak
2		5650.000	32.54	20.60	53.14	-15.06	68.20	Peak
3		5700.000	32.53	20.96	53.49	-51.71	105.20	Peak
4		5725.000	32.01	21.24	53.25	-68.95	122.20	Peak
5		5879.600	85.32	21.59	106.91	N/A	N/A	Peak
6		5895.000	56.00	21.52	77.53	-72.47	150.00	Peak
7		5925.000	32.53	21.59	54.13	-34.07	88.20	Peak
8		5943.240	34.27	21.64	55.92	-32.28	88.20	Peak

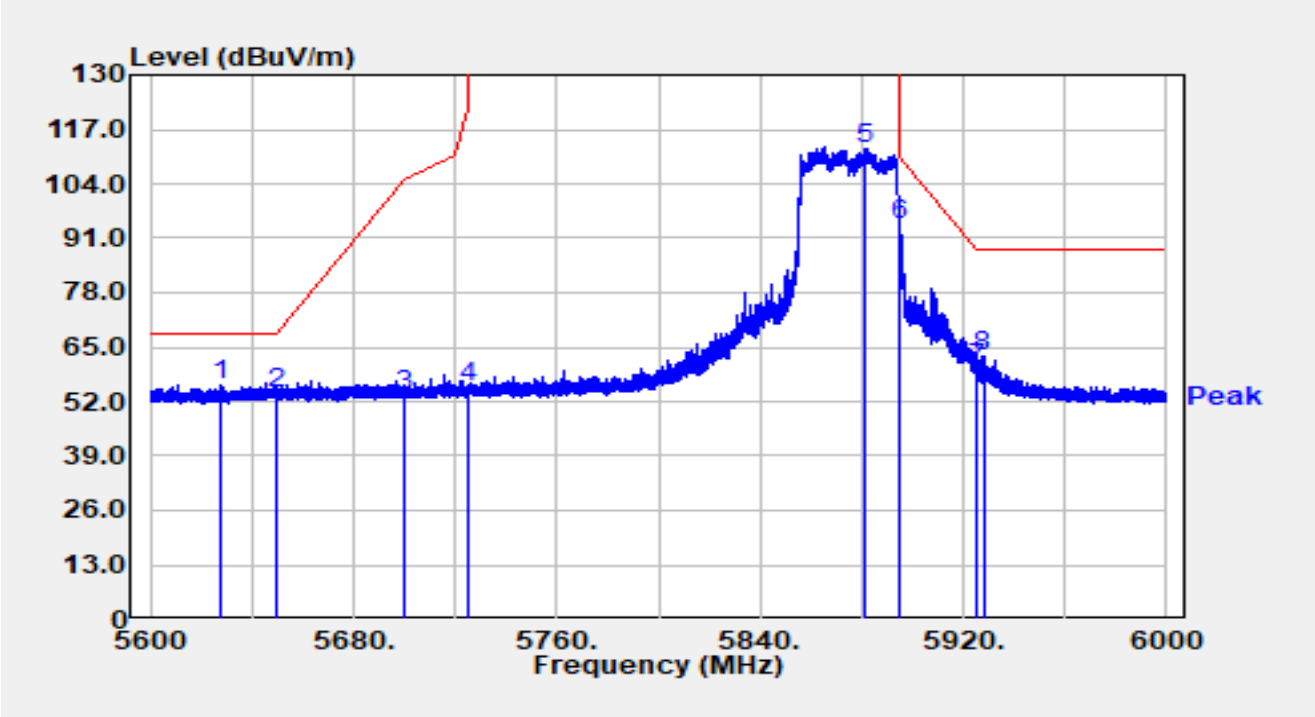
Notes:

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

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

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

Site	WZ-AC2	Test Date	2024-12-14
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ax-HE40 at 5875MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5627.600	35.29	20.56	55.85	-12.35	68.20	Peak
2		5650.000	33.50	20.60	54.09	-14.11	68.20	Peak
3		5700.000	32.40	20.96	53.36	-51.84	105.20	Peak
4		5725.000	34.06	21.24	55.30	-66.90	122.20	Peak
5		5881.440	90.86	21.59	112.44	N/A	N/A	Peak
6		5895.000	72.43	21.52	93.96	-56.04	150.00	Peak
7		5925.000	38.01	21.59	59.61	-28.59	88.20	Peak
8		5927.880	41.35	21.61	62.96	-25.24	88.20	Peak

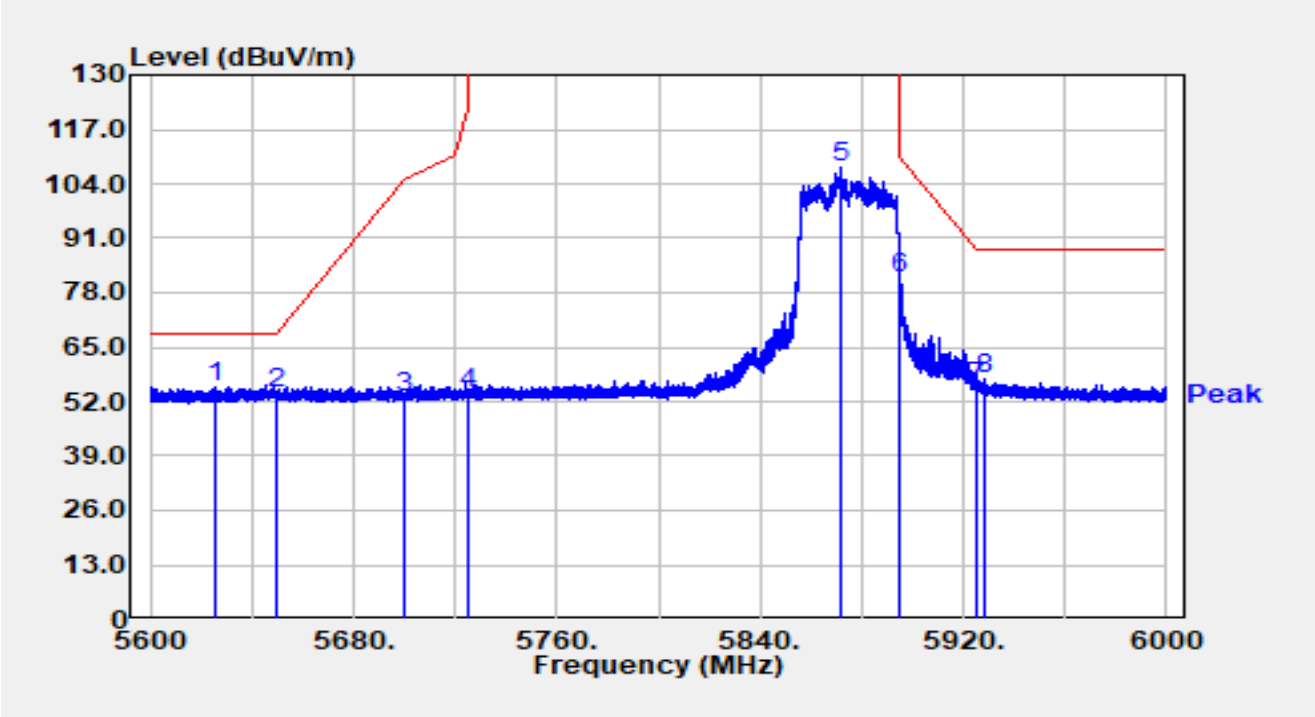
Notes:

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

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

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

Site	WZ-AC2	Test Date	2024-12-14
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ax-HE40 at 5875MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5625.160	34.70	20.54	55.24	-12.96	68.20	Peak
2		5650.000	33.20	20.60	53.80	-14.40	68.20	Peak
3		5700.000	31.87	20.96	52.83	-52.37	105.20	Peak
4		5725.000	32.74	21.24	53.98	-68.22	122.20	Peak
5		5871.840	86.10	21.60	107.70	N/A	N/A	Peak
6		5895.000	60.11	21.52	81.63	-68.37	150.00	Peak
7		5925.000	33.85	21.59	55.44	-32.76	88.20	Peak
8		5928.600	35.73	21.61	57.34	-30.86	88.20	Peak

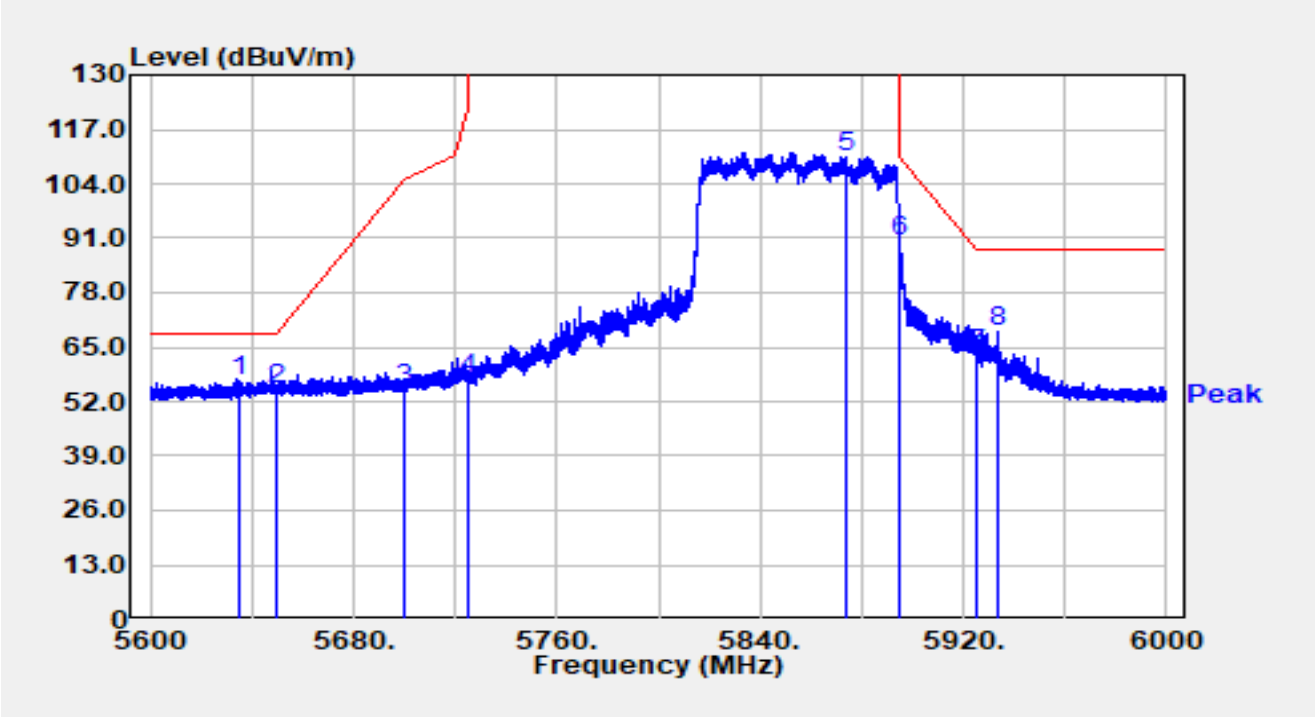
Notes:

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

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

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

Site	WZ-AC2	Test Date	2024-12-14
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Horizontal
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ax-HE80 at 5855MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5634.920	36.19	20.63	56.82	-11.38	68.20	Peak
2		5650.000	34.47	20.60	55.07	-13.13	68.20	Peak
3		5700.000	34.08	20.96	55.05	-50.15	105.20	Peak
4		5725.000	36.05	21.24	57.29	-64.91	122.20	Peak
5		5873.440	88.96	21.60	110.56	N/A	N/A	Peak
6		5895.000	68.72	21.52	90.24	-59.76	150.00	Peak
7		5925.000	41.77	21.59	63.37	-24.83	88.20	Peak
8		5933.160	46.84	21.62	68.46	-19.74	88.20	Peak

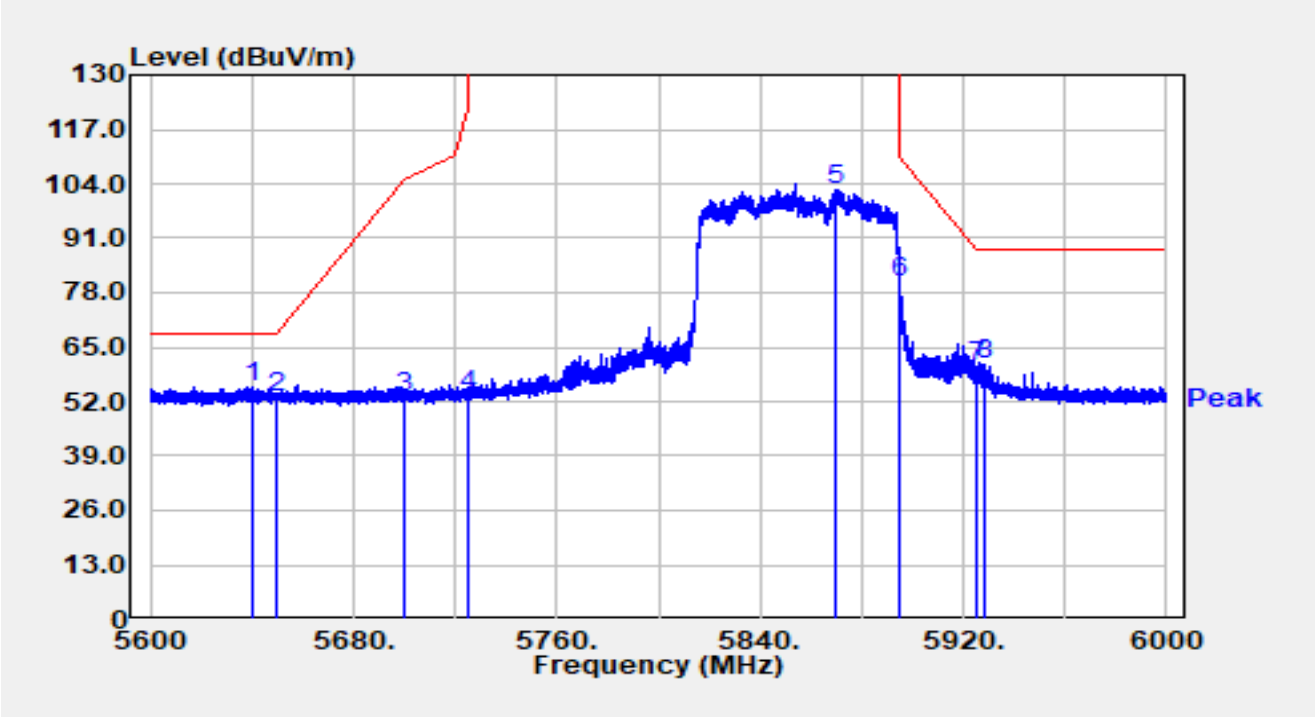
Notes:

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

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

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

Site	WZ-AC2	Test Date	2024-12-14
Limit	FCC_5.9G_RE(3m)	Test Engineer	Dick Shen
Factor	BBHA 9120D_1457_1-18GHz	Polarity	Vertical
EUT	ACCESS POINT	Test Voltage	AC 120V/60Hz
Test Mode	Transmit by 802.11ax-HE80 at 5855MHz		



No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB/m)	Measurement (dBµV/m)	Margin (dB)	Limit (dBµV/m)	Detector
1	*	5640.360	34.65	20.68	55.33	-12.87	68.20	Peak
2		5650.000	32.51	20.60	53.11	-15.09	68.20	Peak
3		5700.000	31.84	20.96	52.81	-52.39	105.20	Peak
4		5725.000	32.12	21.24	53.36	-68.84	122.20	Peak
5		5870.040	80.98	21.60	102.58	N/A	N/A	Peak
6		5895.000	58.69	21.52	80.21	-69.79	150.00	Peak
7		5925.000	38.51	21.59	60.11	-28.09	88.20	Peak
8		5928.240	39.06	21.61	60.67	-27.53	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) + Attenuation (dB) - AMP (dB).

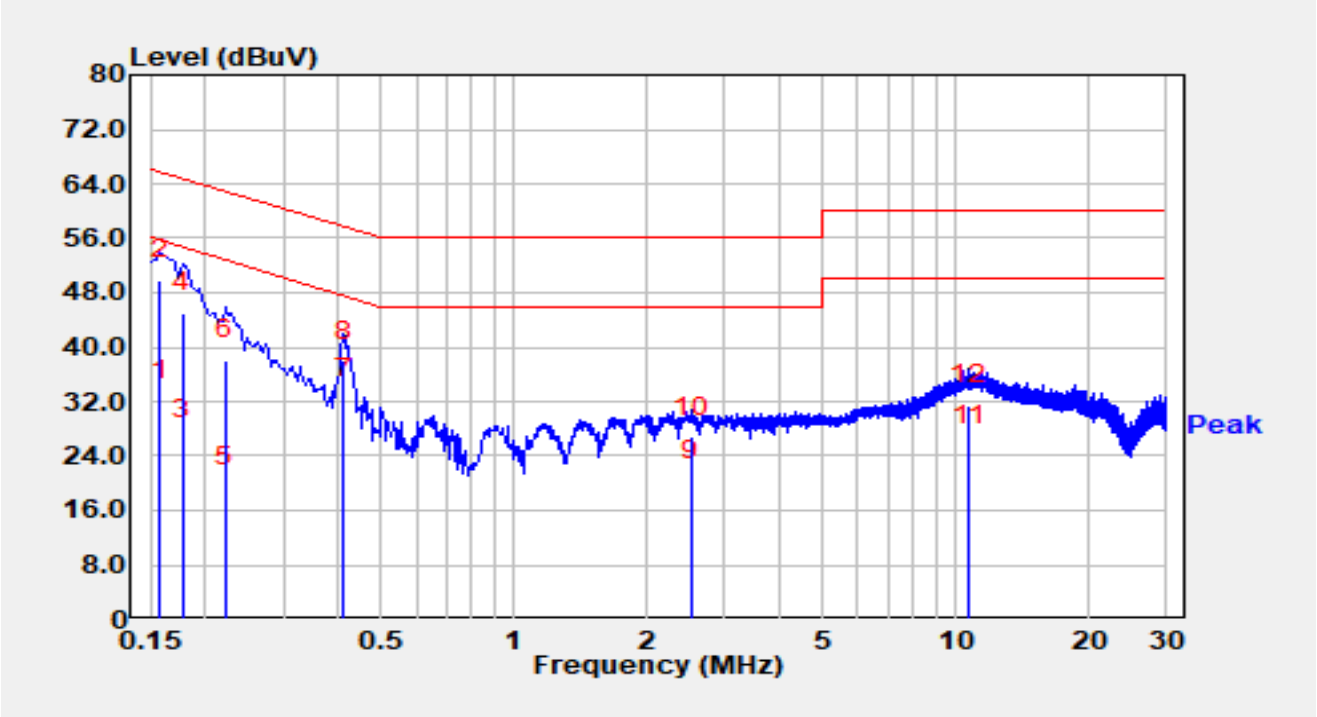
3. Measurement (dBµV/m) = Reading (dBµV) + C.F (dB/m).

A.9 AC Conducted Emissions Test Result

Refer to MRT report No. 2201RSU050-U1 clause A.9

Spot Check:

Site	WZ-SR2	Test Date	2025-01-22
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
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		

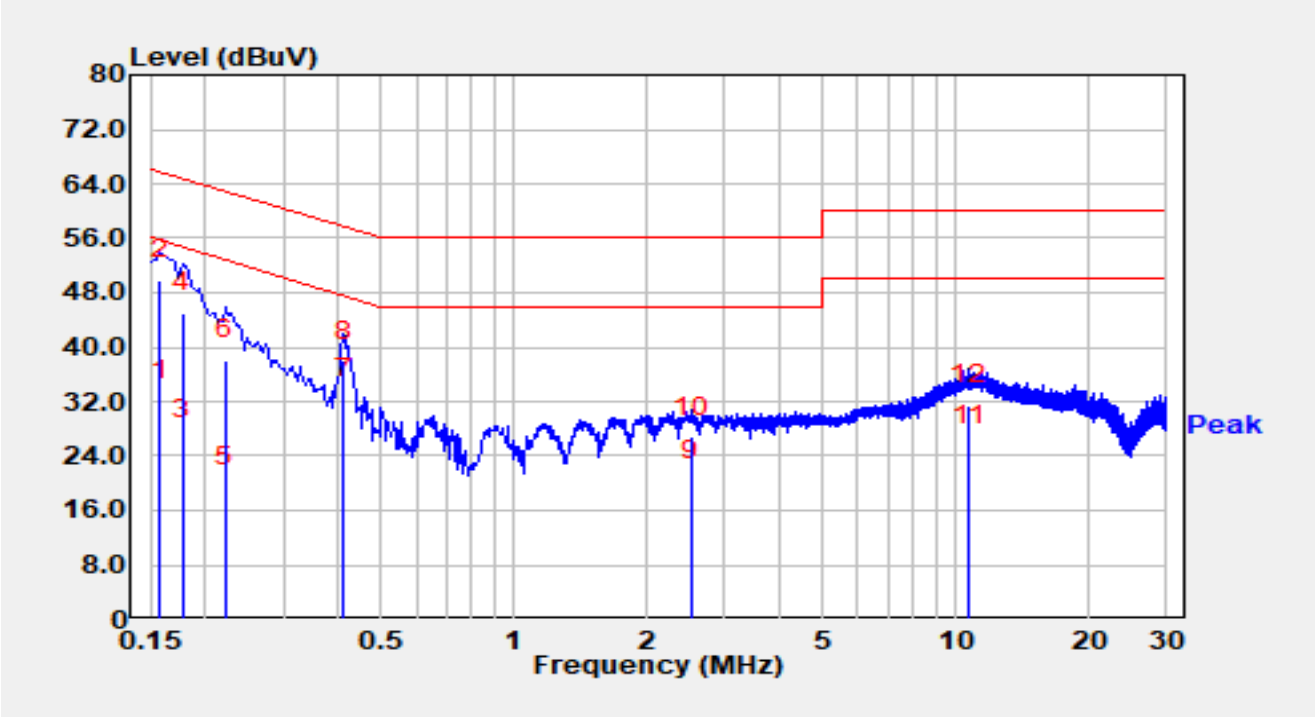


No	Mark	Frequency (MHz)	Reading (dBµV)	C.F (dB)	Measurement (dBµV)	Margin (dB)	Limit (dBµV)	Detector
1		0.158	22.40	9.82	32.22	-23.35	55.57	Average
2		0.158	40.00	9.82	49.82	-15.75	65.57	QP
3		0.178	16.50	9.82	26.32	-28.26	54.58	Average
4		0.178	35.30	9.82	45.12	-19.46	64.58	QP
5		0.222	9.70	9.82	19.52	-33.22	52.74	Average
6		0.222	28.30	9.82	38.12	-24.62	62.74	QP
7	*	0.410	22.60	9.89	32.49	-15.16	47.65	Average
8		0.410	28.10	9.89	37.99	-19.66	57.65	QP
9		2.520	10.20	10.15	20.35	-25.65	46.00	Average
10		2.520	16.70	10.15	26.85	-29.15	56.00	QP
11		10.690	15.00	10.39	25.39	-24.61	50.00	Average
12		10.690	21.10	10.39	31.49	-28.51	60.00	QP

Notes:

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

Site	WZ-SR2	Test Date	2025-01-22
Limit	FCC Part 15.207_CE_Mains	Test Engineer	Linda Wei
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		0.158	22.40	9.82	32.22	-23.35	55.57	Average
2		0.158	40.00	9.82	49.82	-15.75	65.57	QP
3		0.178	16.50	9.82	26.32	-28.26	54.58	Average
4		0.178	35.30	9.82	45.12	-19.46	64.58	QP
5		0.222	9.70	9.82	19.52	-33.22	52.74	Average
6		0.222	28.30	9.82	38.12	-24.62	62.74	QP
7	*	0.410	22.60	9.89	32.49	-15.16	47.65	Average
8		0.410	28.10	9.89	37.99	-19.66	57.65	QP
9		2.520	10.20	10.15	20.35	-25.65	46.00	Average
10		2.520	16.70	10.15	26.85	-29.15	56.00	QP
11		10.690	15.00	10.39	25.39	-24.61	50.00	Average
12		10.690	21.10	10.39	31.49	-28.51	60.00	QP

Notes:

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

2. C.F (dB) = LISN Factor (dB) + Cable Loss (dB).

3. Measurement (dBμV) = Reading (dBμV) + C.F (dB).

Appendix B – Test Setup Photograph

Refer to “2411RSU027-UT” file.

Appendix C – EUT Photograph

Refer to “2411RSU027-UE” file.

The End