



RF MEASUREMENT REPORT

FCC ID: Q9DAP22D

Applicant: Hewlett Packard Enterprise

Product: ACCESS POINT

Model No.: APINH505

Marketing Name: AP22D

Brand Name:  , 

FCC Classification: Unlicensed National Information Infrastructure (NII)

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

Result: Complies

Received Date: 2023-07-12

Test Date: 2023-07-20 ~ 2023-08-02

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. 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
2307RSU029-U3	V01	Initial Report	2023-10-23	Invalid
2307RSU029-U3	V02	Add spot-check error	2023-11-29	Valid

Note 1: The product is a variation on the existing APINH505 that had FCC approval (FCC ID: Q9DAPINH505). The differences are shown in the table below.

Parts of Product	Modification
Top Cover	Yes, changed. ION style look USB port removed No hidden LED
Light Pipe	Yes, Changed. Bring to top cover, no hidden LED.
BLE/ZigBee	Yes, Changed. BLE/ZigBee circuit and antenna removed.
Others	No Change

The applicant remeasured a set of antenna gain that slightly different than before.

Frequency	Original Wi-Fi Antenna Gain	Current Wi-Fi Antenna Gain
	(dBi)	(dBi)
2400	2.91	2.84
2450	3.28	3.17
2500	3.15	2.80
5150	2.15	3.12
5550	2.43	2.12
5850	2.85	2.31

Note 2: Spot-check tests were done on these items (Output Power & Radiated Spurious Emission & Radiated Restricted Band Edge) based on worst-case results reported in the original FCC ID filing.

CONTENTS

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

6.4.2.	Test Procedure	21
6.4.3.	Test Setting	21
6.4.4.	Test Setup.....	22
6.4.5.	Test Result.....	22
Appendix A – Test Result.....		23
A.1	Output Power Test Result	23
A.2	Radiated Spurious Emission Test Result.....	24
A.3	Radiated Restricted Band Edge Test Result.....	38
Appendix B – Test Setup Photograph		80
Appendix C – EUT Photograph		81

1. General Information

1.1. Applicant

Hewlett Packard Enterprise
6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise
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 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.	APINH505
Marketing Name	AP22D
Serial No.	CNQMM1F006
Software Version	v1.46
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Operating Temp.	0 ~ 40°C
Power Supply	AC/DC Adapter or PoE Input
Accessory	
AC/DC Adapter	Model: ADP-50GR BD Input: 100-240V ~ 1.3A 50-60Hz Output: 48.0V = 1.042A 50.016W
PoE Injector	Model: POE60U-1BT-5 Input: 100-240V ~ 1.5A 50-60Hz Output: 56V = 0.535A
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: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz, 5690MHz, 5775MHz	
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
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	--	--	--	--

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

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	151	5755 MHz	159	5795 MHz

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	155	5775 MHz

1.7. Antenna Details

Antenna Type	Frequency Band	Tx Paths	Uncorrelated Gain (dBi)	CDD Correlated Gain (dBi)
Wi-Fi Internal Antenna				
Dipole	2412 ~ 2462	2	3.17	6.15
Dipole	5150 ~ 5850	2	3.12	6.11

Note 1: In accordance with KDB 662911 D01v02r01, uncorrelated directional gain was applied for calculating max conducted output power limit and correlated directional gain was applied for calculating PSD limit.

Note 2: The directional gains, uncorrelated and correlated gains were provided by the manufacturer.

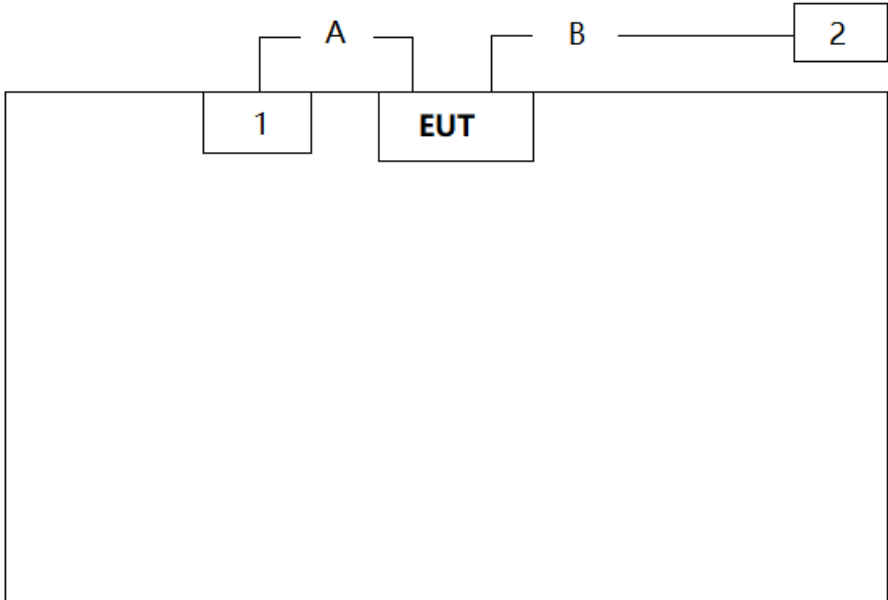
2. Test Configuration

2.1. Test Mode

Mode 1: Transmit by 802.11a_ N _{ss} =1 (48Mbps)
Mode 2: Transmit by 802.11n-HT20_ N _{ss} =1 (MCS5)
Mode 3: Transmit by 802.11ac-VHT80_ N _{ss} =1 (MCS1)
Mode 4: Transmit by 802.11ac-VHT80_ N _{ss} =1 (MCS8)
Mode 5: Transmit by 802.11ac-VHT80_ N _{ss} =1 (MCS9)
Mode 6: Transmit by 802.11ax-HE20_ N _{ss} =1 (MCS8)
Mode 7: Transmit by 802.11ax-HE20_ N _{ss} =1 (MCS9)
Mode 8: Transmit by 802.11ax-HE40_ N _{ss} =1 (MCS0)
Mode 9: Transmit by 802.11ax-HE40_ N _{ss} =1 (MCS5)
Mode 10: Transmit by 802.11ax-HE40_ N _{ss} =1 (MCS9)
Mode 11: Transmit by 802.11ax-HE80_ N _{ss} =1 (MCS1)

Remark: For Radiated Spurious Emission and Radiated Restricted Band Edge, the modulation and the data rate picked for testing are determined by the original report.

2.2. Test System Connection Diagram

Connection Diagram – Radiated Emission testing		
		
Cable Type	Cable Description	
A	Power Cable	Non shielded, 1.8m
B	LAN Cable	Non shielded, 3.0m

Product		Manufacturer	Model No.
1	AD/DC Adapter	Aruba	ADP-50GR BD
2	Notebook	Lenovo	Y7000

2.3. Test Software

The test utility software used during testing was “accessMTool” and the version was “3.2.1.5”.

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 662911 D01v02r01
- ANSI C63.10-2013

2.5. Test Environment Condition

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

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2024-05-15	WZ-AC2
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2023-09-29	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2024-05-23	WZ-AC2
Thermohygrometer	Mingle	ETH529	MRTSUE06170	1 year	2023-11-27	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2023-10-13	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2024-05-07	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2024-04-20	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2023-11-05	WZ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06640	1 year	2024-01-12	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11038	1 year	2023-11-01	WZ-AC2
USB Power Sensor	Boonton	55006	MRTSUE06109	1 year	2024-02-29	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software
Controller_MF 7802	1.02	RE Antenna & Turntable
Agilent Power Analyzer/Agilent Power Panel	V R03.09.00	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 $k = 2$.

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
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
1.4dB	

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)(1)(ii), (2), (3)(i)	Maximum Conducted Output Power	Conducted	Pass
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	Radiated	Pass
15.205, 15.209 15.407(b)(8), (9), (10)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)		Pass

6.2. Output Power Measurement

6.2.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.2.2. Test Procedure

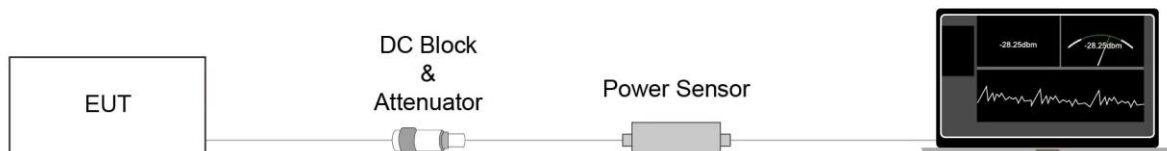
KDB 789033D02v02r01- Section II)E)3)b) Method PM-G

6.2.3. 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.

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.1.

6.3. Radiated Spurious Emission Measurement

6.3.1. 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

6.3.2. Test Procedure

KDB 789033 D02v02r01- Section II (G)

6.3.3. Test Setting

Table 1 - RBW as a function of frequency

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

Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

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

Average Measurements above 1GHz (Method VB)

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

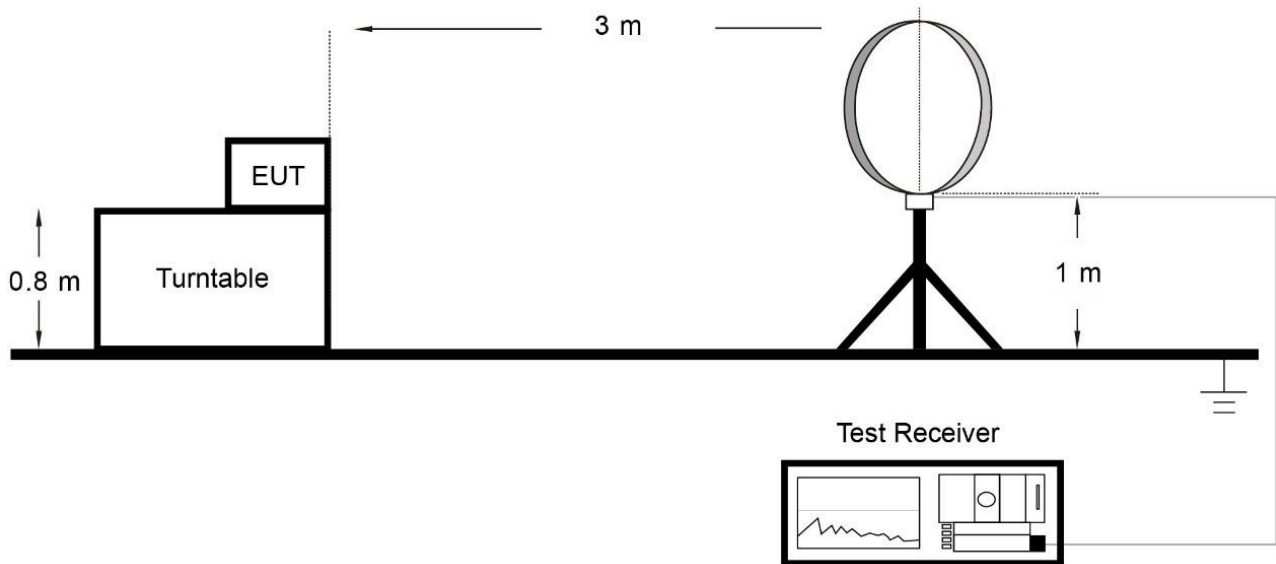
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.

802.11n-HT20 MCS5	VBW = 3.9KHz	802.11ax-HE20 MCS9	VBW = 5.6KHz
802.11ax-HE20 MCS8	VBW = 6.2KHz		

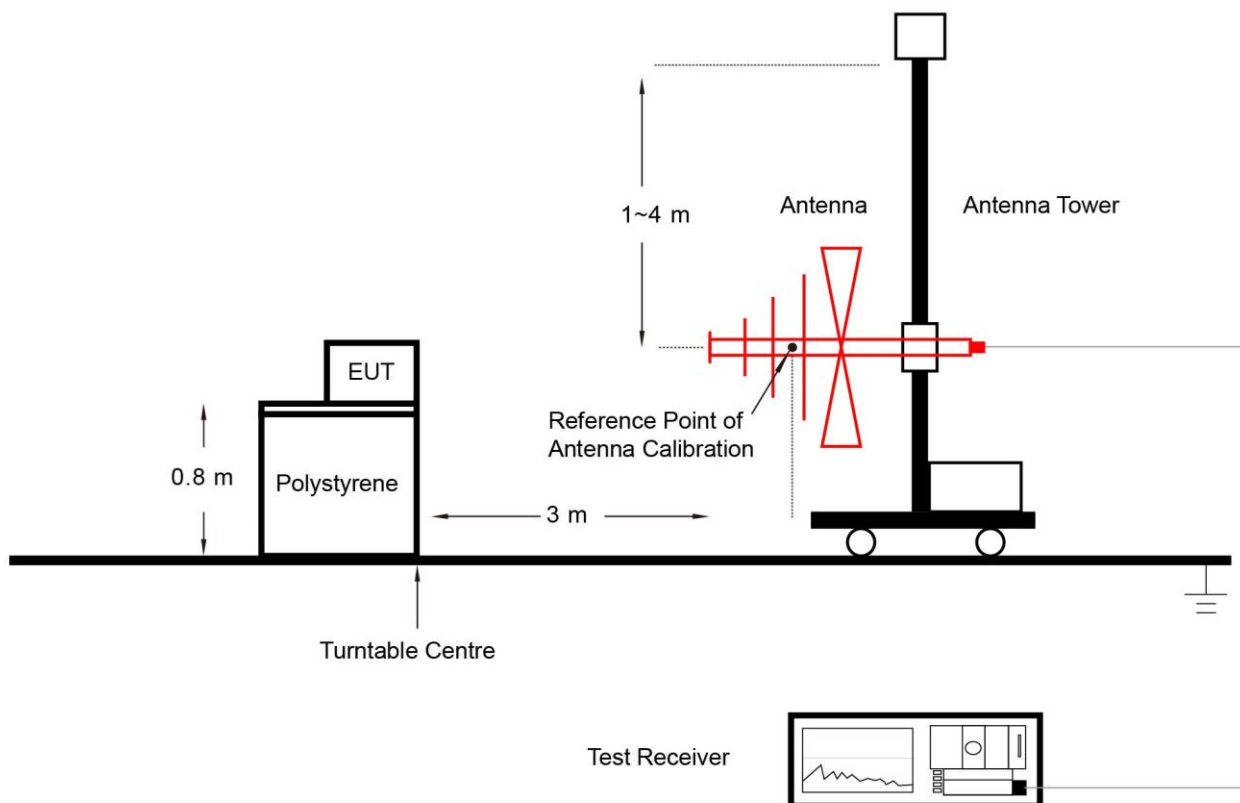
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.3.4. Test Setup

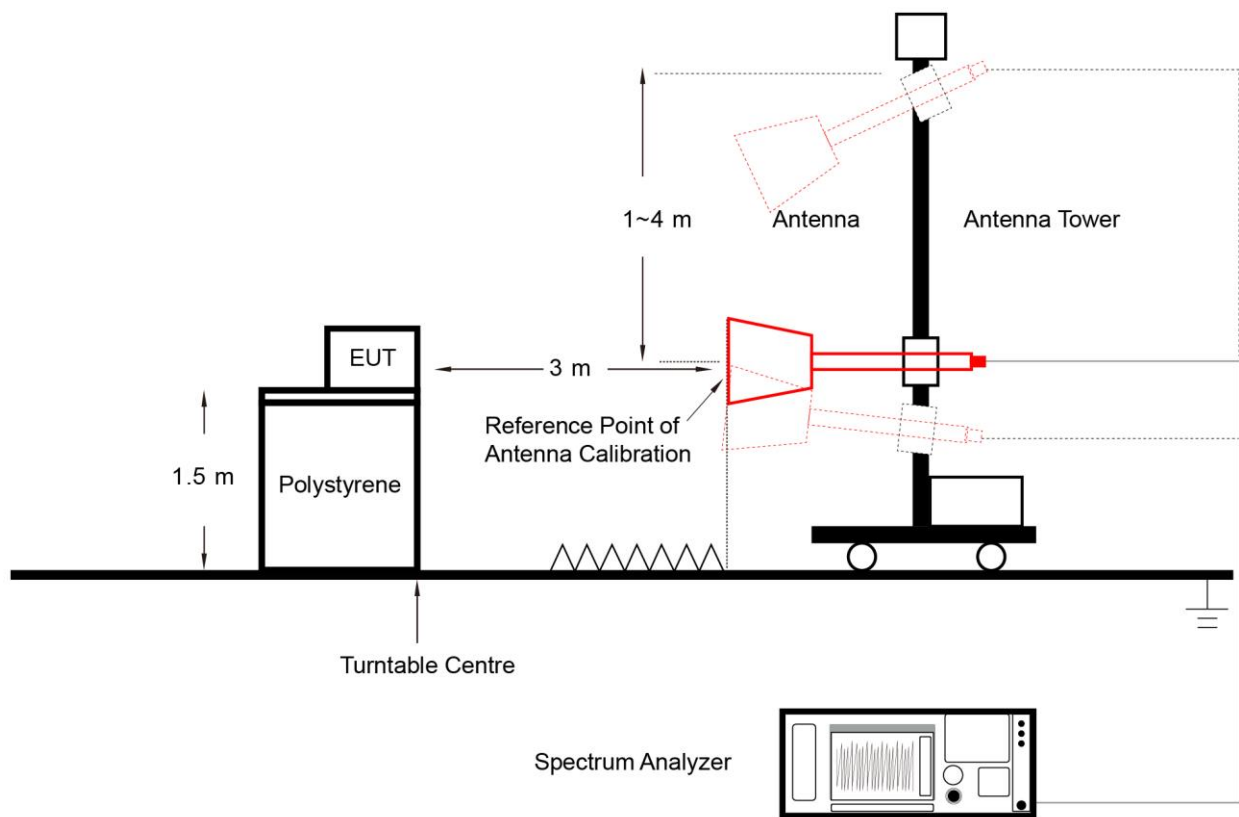
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.3.5. Test Result

Refer to Appendix A.2.

6.4. Radiated Restricted Band Edge Measurement

6.4.1. Test Limit

For 15.205 requirement:

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

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [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

6.4.2. Test Procedure

KDB 789033 D02v02r01- Section II (G)

6.4.3. 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

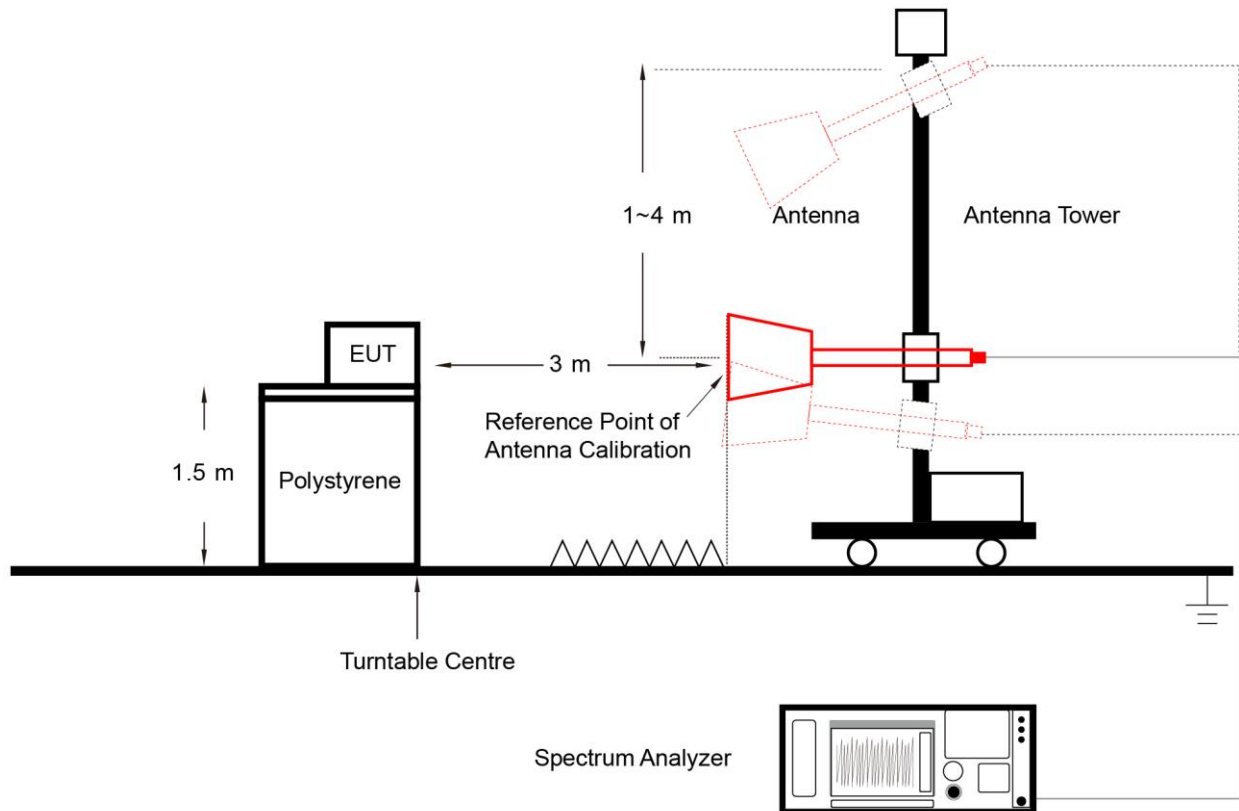
Average Measurements above 1GHz (Method VB)

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

802.11a 48Mbps	VBW = 3.9KHz	802.11n-HT20 MCS5	VBW = 3.9KHz
802.11ac-VHT80 MCS1	VBW = 4.3KHz	802.11ac-VHT80 MCS8	VBW = 15.0KHz
802.11ac-VHT80 MCS9	VBW = 15.0KHz	802.11ax-HE20 MCS8	VBW = 5.6KHz
802.11ax-HE20 MCS9	VBW = 6.2KHz	802.11ax-HE40 MCS0	VBW = 1.3KHz
802.11ax-HE40 MCS5	VBW = 6.8KHz	802.11ax-HE40 MCS9	VBW = 9.1KHz
802.11ax-HE80 MCS1	VBW = 4.3KHz		

5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.3.

Appendix A – Test Result

A.1 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2023-07-20		
Remark	Spot Check		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1		
CDD Mode (Nss = 1)							
11a	48Mbps	100	5500	16.69	16.80	19.76	≤ 23.98
11n-HT20	MCS5	36	5180	17.68	18.21	20.96	≤ 30.00
11ac-VHT80	MCS9	42	5210	18.57	18.37	21.48	≤ 30.00
11ac-VHT80	MCS8	58	5290	14.96	14.86	17.92	≤ 23.98
11ac-VHT80	MCS1	155	5775	19.07	19.35	22.22	≤ 30.00
11ax-HE20	MCS9	64	5320	18.05	18.35	21.21	≤ 23.98
11ax-HE20	MCS8	100	5500	17.07	17.27	20.18	≤ 23.98
11ax-HE20	MCS8	149	5745	19.15	18.72	21.95	≤ 30.00
11ax-HE40	MCS9	38	5190	14.18	14.03	17.12	≤ 30.00
11ax-HE40	MCS5	62	5310	15.40	15.66	18.54	≤ 23.98
11ax-HE40	MCS5	102	5510	15.35	15.22	18.30	≤ 23.98
11ax-HE40	MCS0	151	5755	19.12	18.97	22.06	≤ 30.00
11ax-HE80	MCS1	106	5530	19.20	18.82	22.02	≤ 23.98

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

Spot-check Error (From KDB 484596 D01 Referencing Test Data v02r01)

Worst Case Spot-check Error	Limit	Result
9.80%	25%	Pass

Note: Spot-check Error = $|\text{spot check data} - \text{reference data}| / |\text{reference data}|$

For example, $|156.70\text{mW} - 173.78\text{mW}| / 173.78 \cdot 100 = 9.80\%$

A.2 Radiated Spurious Emission Test Result

Test Site	WZ-AC2	Test Engineer	Edith Yu
Test Date	2023-07-20 ~ 07-24	Test Mode	Transmit by 802.11n-HT20_NSS=1 (MCS5) – Channel 36 – 5180MHz
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.		
Remark	Spot Check		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10265.0	32.9	14.4	47.4	68.2	-20.8	Peak	Horizontal
	12194.5	32.1	17.7	49.8	74.0	-24.2	Peak	Horizontal
*	13962.5	32.0	18.9	51.0	68.2	-17.2	Peak	Horizontal
	15526.5	33.7	18.3	52.0	74.0	-22.0	Peak	Horizontal
	15526.5	26.9	18.3	45.2	54.0	-8.8	Average	Horizontal
*	10273.5	32.6	14.6	47.1	68.2	-21.1	Peak	Vertical
	11489.0	32.1	17.7	49.7	74.0	-24.3	Peak	Vertical
	12203.0	31.4	17.6	49.1	74.0	-24.9	Peak	Vertical
*	13724.5	31.4	19.0	50.4	68.2	-17.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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	Edith Yu
Test Date	2023-08-02	Test Mode	Transmit by 802.11ax-HE20_NSS=1 (MCS9) – Channel 64 – 5320MHz
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.		
Remark	Spot Check		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7460.0	23.6	11.4	35.0	74.0	-39.0	Peak	Horizontal
*	9899.5	23.3	11.8	35.0	68.2	-33.2	Peak	Horizontal
	11914.0	22.7	16.6	39.3	74.0	-34.7	Peak	Horizontal
*	13716.0	23.2	17.9	41.1	68.2	-27.1	Peak	Horizontal
	8114.5	24.4	10.9	35.2	74.0	-38.8	Peak	Vertical
*	9661.5	25.4	11.5	36.9	68.2	-31.3	Peak	Vertical
	12203.0	22.4	17.2	39.6	74.0	-34.4	Peak	Vertical
*	13911.5	21.9	16.8	38.7	68.2	-29.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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	Edith Yu
Test Date	2023-07-20 ~ 07-24	Test Mode	Transmit by 802.11ax-HE20_NSS=1 (MCS8) – Channel 100 – 5500MHz
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.		
Remark	Spot Check		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10001.5	33.7	13.6	47.4	68.2	-20.8	Peak	Horizontal
	11548.5	32.8	17.7	50.5	74.0	-23.5	Peak	Horizontal
	12296.5	30.8	17.6	48.5	74.0	-25.5	Peak	Horizontal
*	13971.0	31.8	18.7	50.6	68.2	-17.6	Peak	Horizontal
*	10231.0	33.5	14.1	47.5	68.2	-20.7	Peak	Vertical
	10911.0	32.6	16.4	49.1	74.0	-24.9	Peak	Vertical
	11642.0	31.4	17.9	49.3	74.0	-24.7	Peak	Vertical
*	13206.0	31.4	18.0	49.3	68.2	-18.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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	Edith Yu
Test Date	2023-07-20 ~ 07-24	Test Mode	Transmit by 802.11ax-HE20_NSS=1 (MCS8) – Channel 149 – 5745MHz
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.		
Remark	Spot Check		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	10350.0	34.1	15.0	49.1	68.2	-19.1	Peak	Horizontal
	11115.0	32.9	16.4	49.3	74.0	-24.7	Peak	Horizontal
	12228.5	31.5	17.5	49.0	74.0	-25.0	Peak	Horizontal
*	16912.0	32.0	21.7	53.7	68.2	-14.5	Peak	Horizontal
*	9814.5	34.1	13.6	47.7	68.2	-20.5	Peak	Vertical
	10860.0	33.1	16.2	49.2	74.0	-24.8	Peak	Vertical
	11540.0	31.8	17.5	49.3	74.0	-24.7	Peak	Vertical
*	14693.5	32.1	19.8	51.9	68.2	-16.3	Peak	Vertical

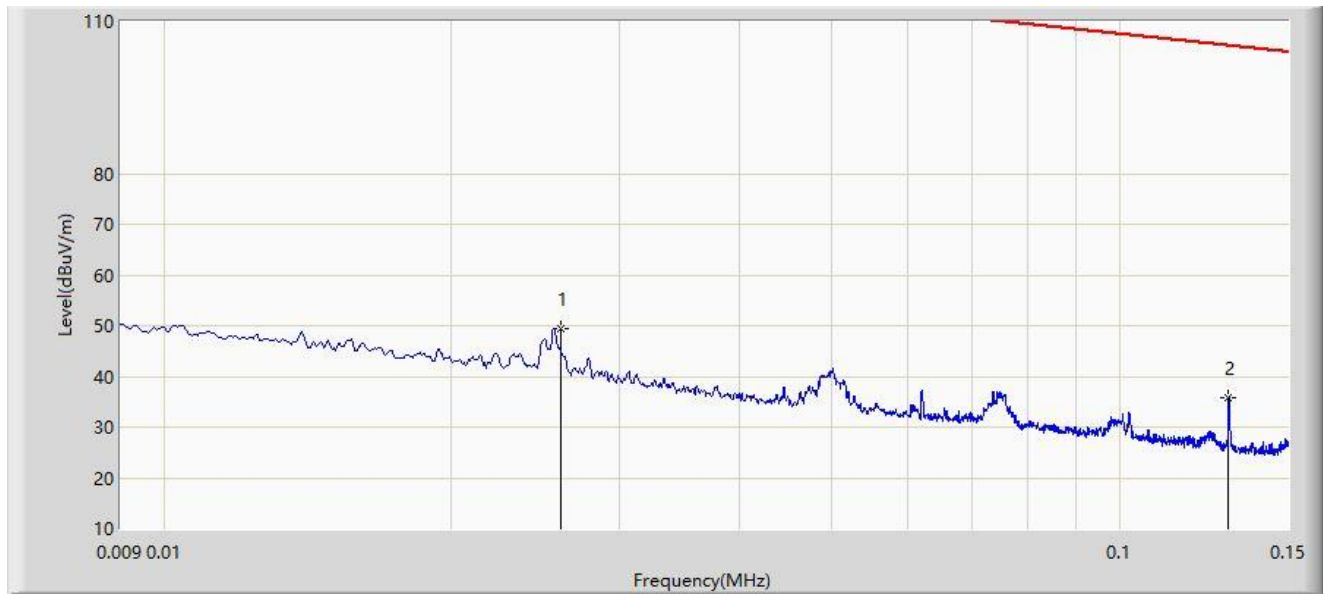
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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 between 9KHz-30MHz:

Site: WZ-AC2	Time: 2023/07/24 - 23:30
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.026	49.442	30.727	-69.848	119.290	18.716	PK
2	*	0.130	35.694	18.511	-69.625	105.319	17.183	PK

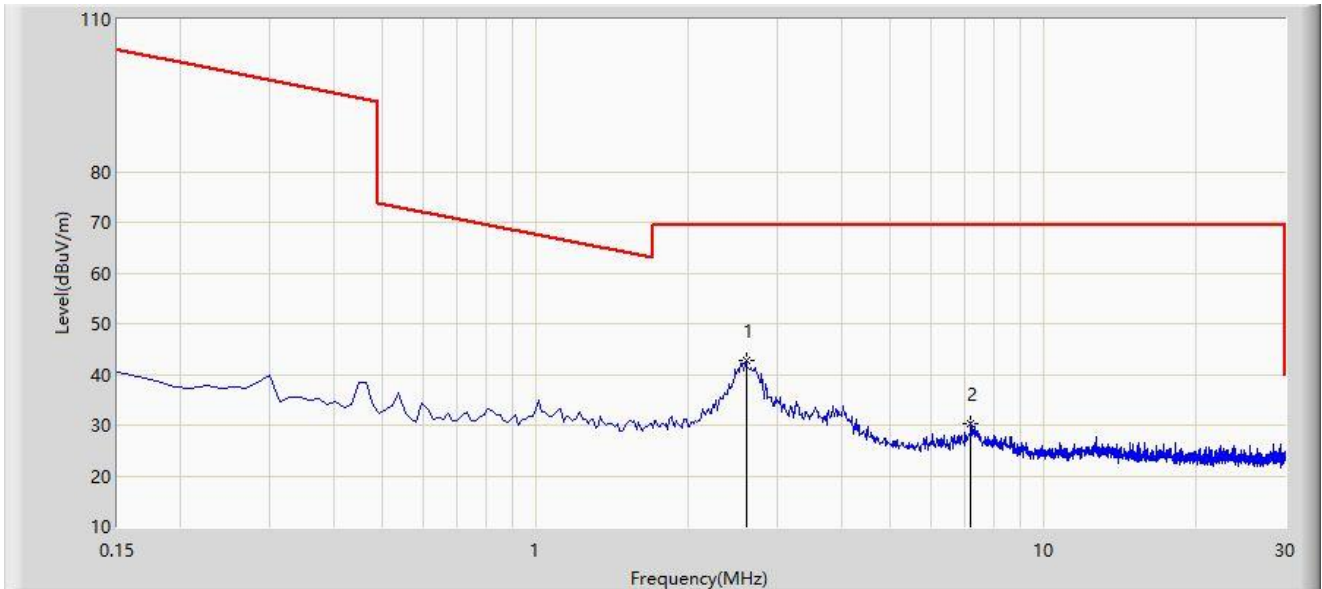
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC2	Time: 2023/07/24 - 23:32
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: FMZB1519_0.009-30MHz	Polarity: Coaxial
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2.598	42.825	25.259	-26.675	69.500	17.566	PK
2		7.195	30.342	12.988	-39.158	69.500	17.354	PK

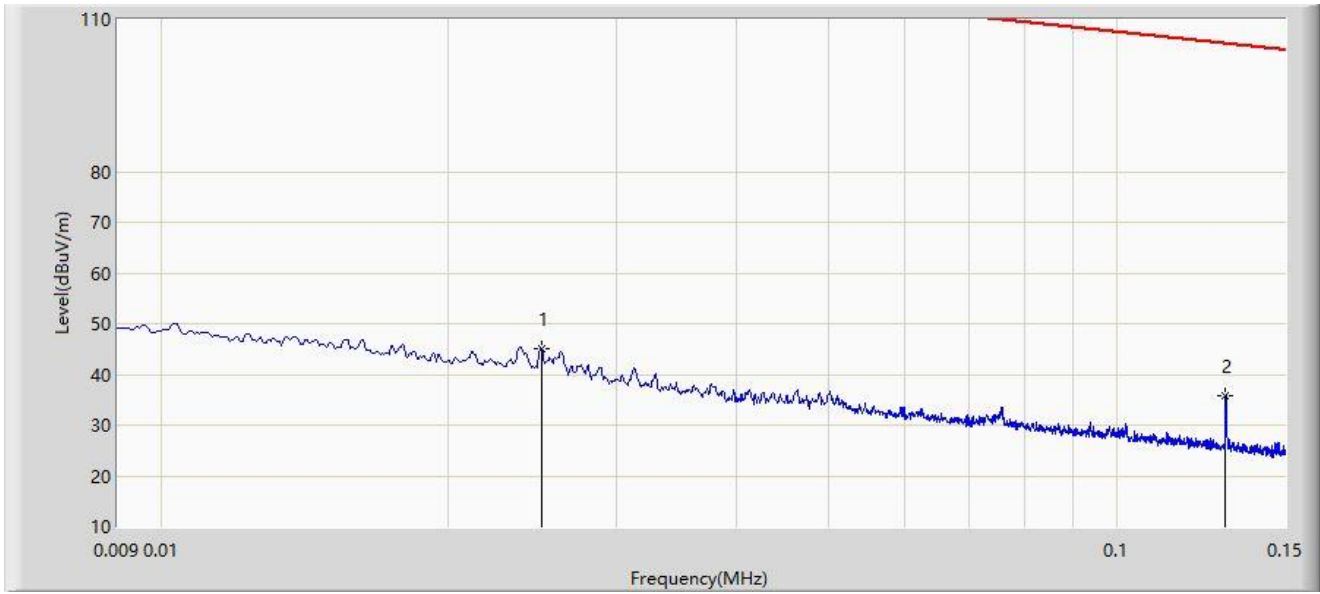
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC2	Time: 2023/07/24 - 23:17
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.025	45.052	26.238	-74.579	119.631	18.814	PK
2	*	0.130	35.677	18.494	-69.642	105.319	17.183	PK

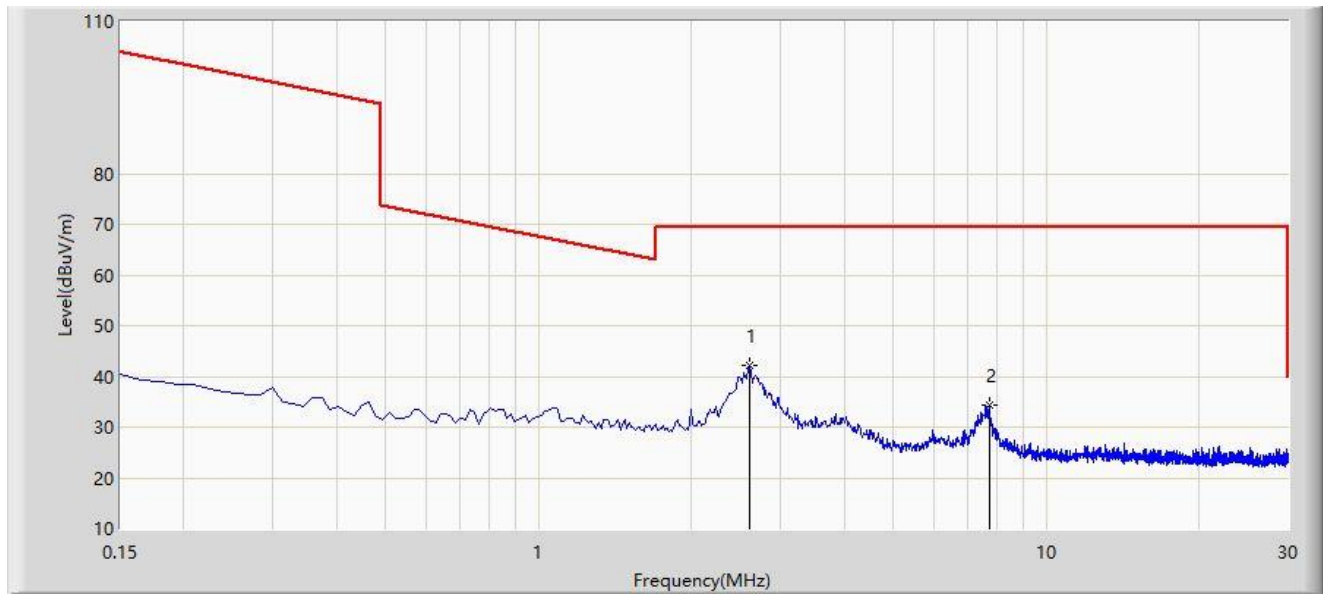
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC2	Time: 2023/07/24 - 23:19
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: FMZB1519_0.009-30MHz	Polarity: Coplanar
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2.598	42.043	24.477	-27.457	69.500	17.566	PK
2		7.747	34.313	16.968	-35.187	69.500	17.345	PK

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

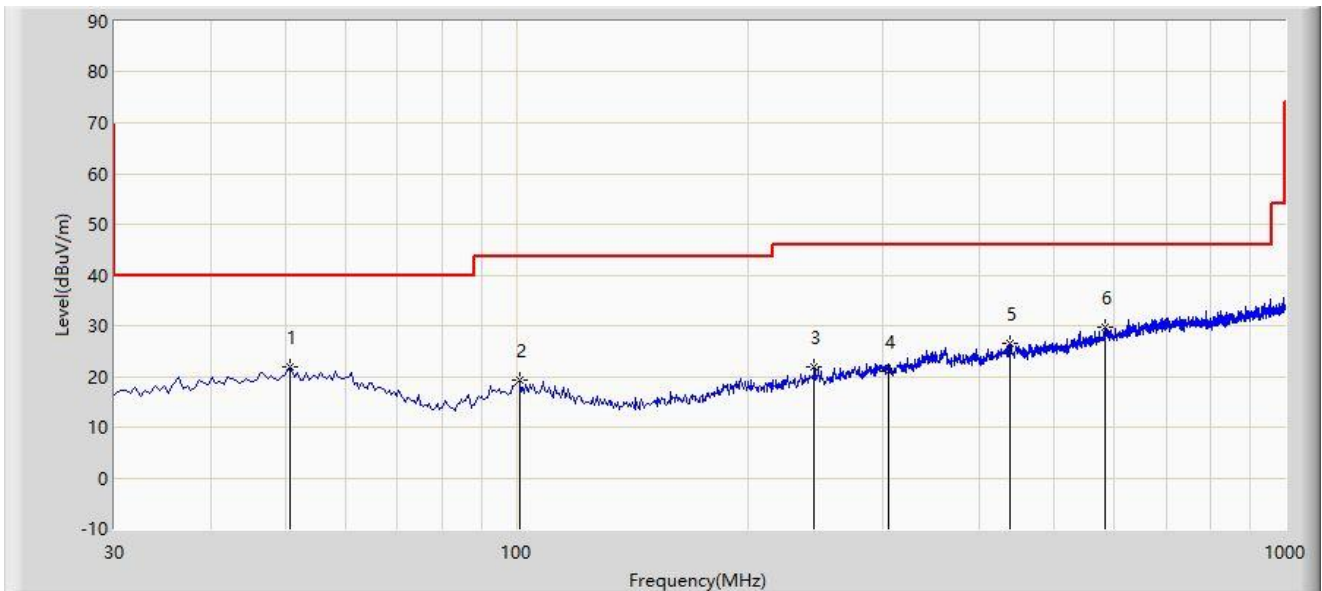
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

The Result of Radiated Spurious Emission between 30MHz-1GHz:

Site: WZ-AC2	Time: 2023/07/24 - 23:40
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: VULB9162_30-7000MHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		50.855	22.024	1.565	-17.976	40.000	20.459	PK
2		100.810	19.364	0.764	-24.136	43.500	18.600	PK
3		243.885	21.794	1.833	-24.206	46.000	19.962	PK
4		304.995	21.128	0.141	-24.872	46.000	20.987	PK
5		438.370	26.598	2.600	-19.402	46.000	23.998	PK
6	*	582.415	29.740	2.933	-16.260	46.000	26.807	PK

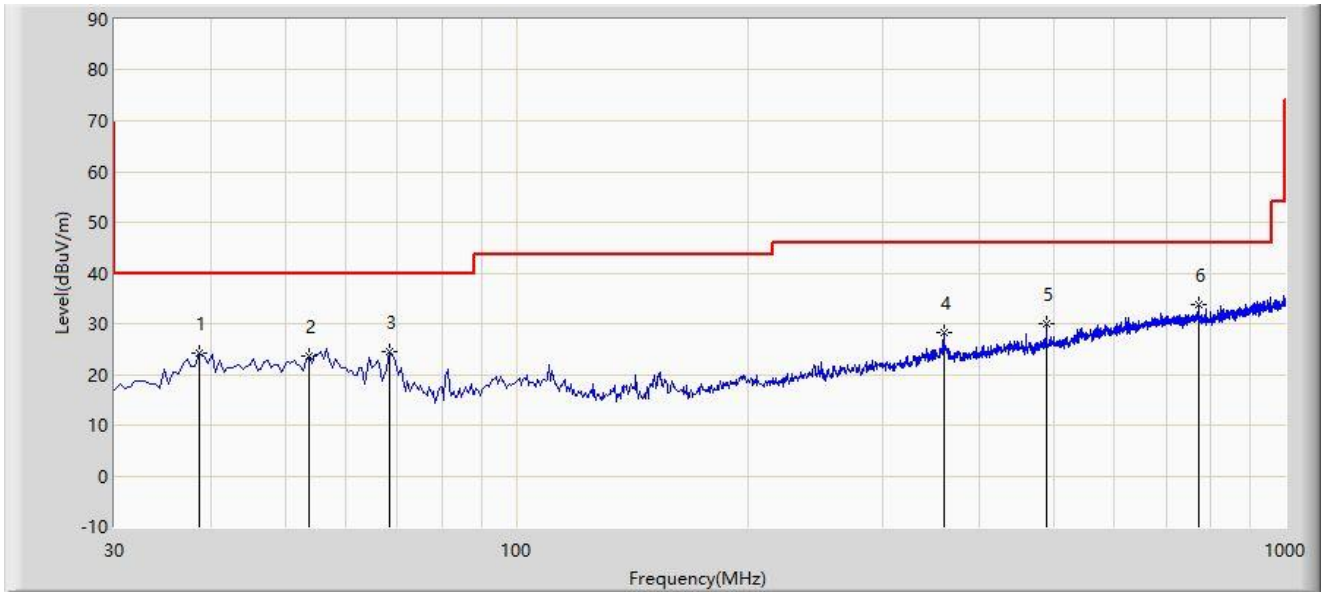
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: WZ-AC2	Time: 2023/07/24 - 23:42
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: VULB9162_30-7000MHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		38.730	24.067	5.723	-15.933	40.000	18.344	PK
2		53.765	23.569	3.177	-16.431	40.000	20.392	PK
3		68.315	24.436	7.002	-15.564	40.000	17.434	PK
4		359.800	28.164	5.846	-17.836	46.000	22.318	PK
5		489.295	29.967	4.714	-16.033	46.000	25.253	PK
6	*	770.595	33.675	4.303	-12.325	46.000	29.372	PK

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

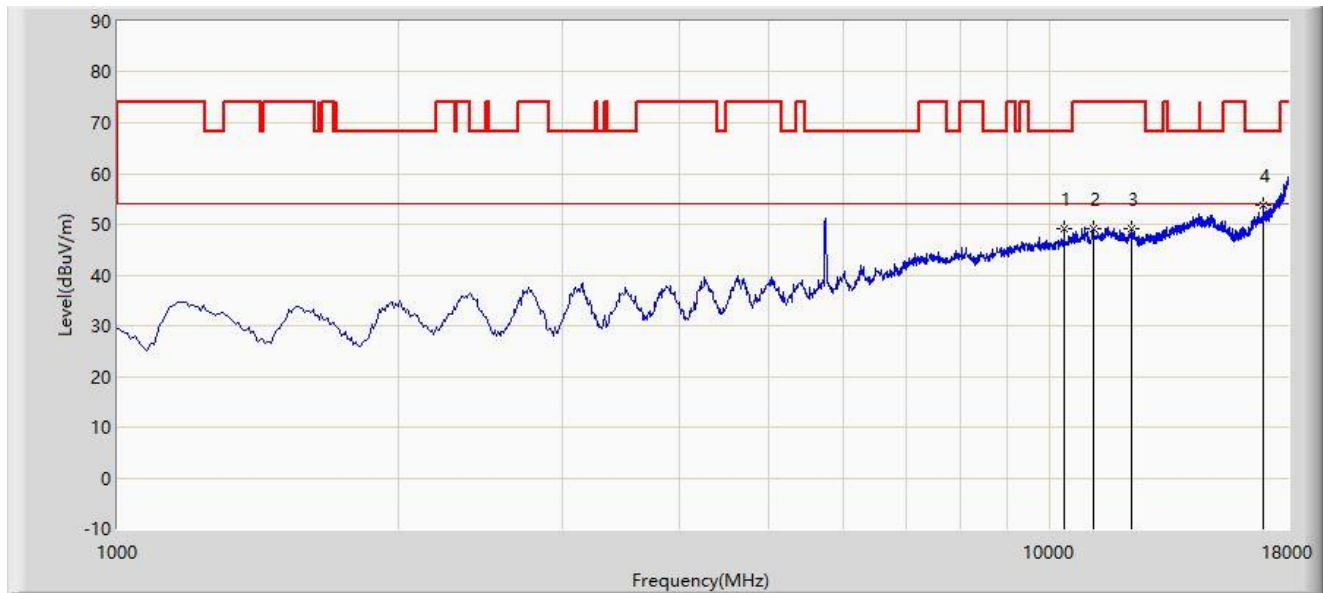
Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

The Result of Radiated Spurious Emission between 1GHz-18GHz:

Site: WZ-AC2	Time: 2023/07/23 - 16:18
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		10350.000	49.085	34.104	-19.115	68.200	14.981	PK
2		11115.000	49.271	32.865	-24.729	74.000	16.405	PK
3		12228.500	49.041	31.532	-24.959	74.000	17.510	PK
4	*	16912.000	53.732	32.031	-14.468	68.200	21.701	PK

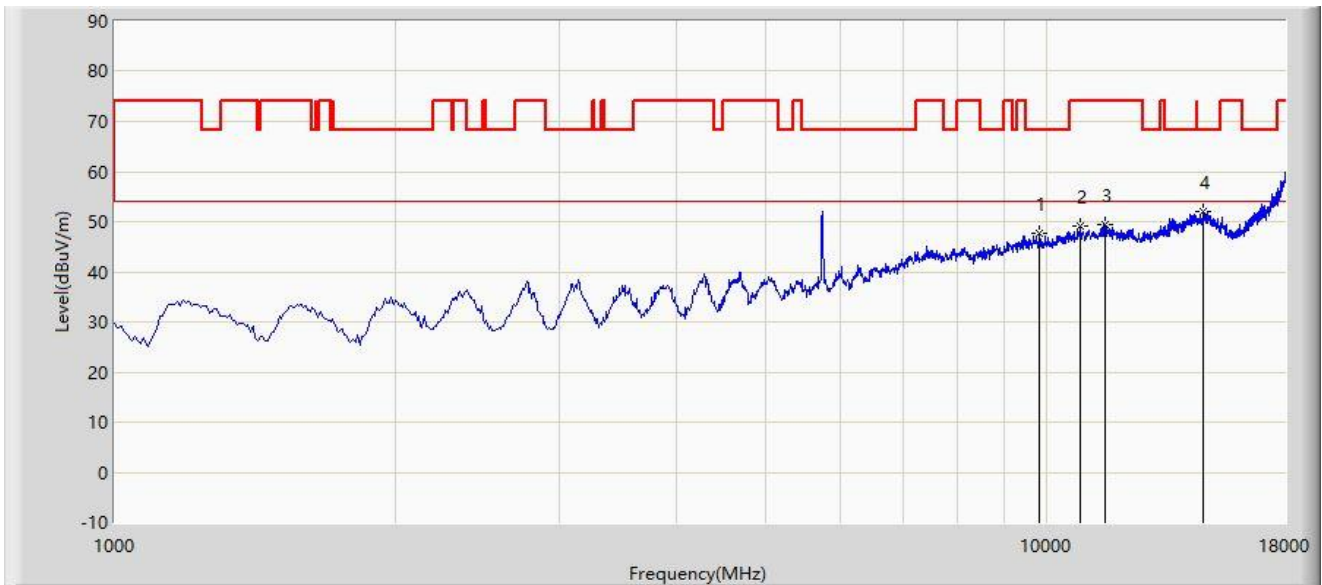
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Time: 2023/07/23 - 16:22
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		9814.500	47.725	34.118	-20.475	68.200	13.608	PK
2		10860.000	49.231	33.054	-24.769	74.000	16.176	PK
3		11540.000	49.295	31.809	-24.705	74.000	17.486	PK
4	*	14693.500	51.889	32.111	-16.311	68.200	19.778	PK

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

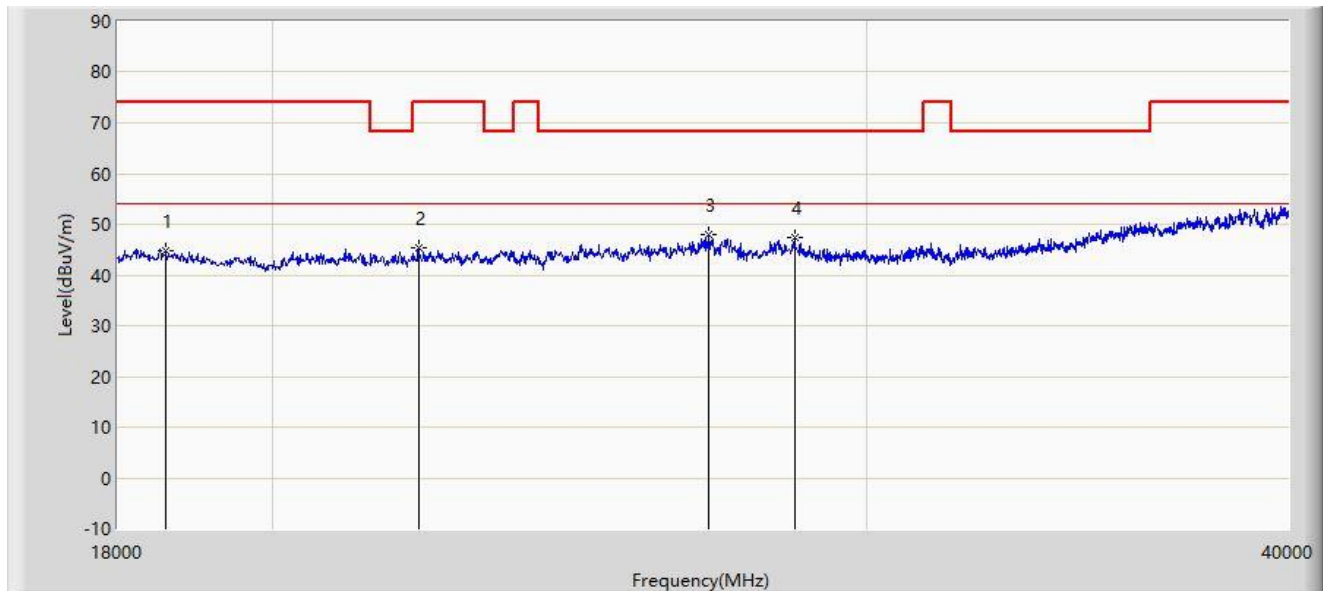
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

The Result of Radiated Spurious Emission above 18GHz:

Site: WZ-AC2	Time: 2023/07/26 - 11:00
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: BBHA9170_993_18-40GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		18605.000	44.924	55.668	-29.076	74.000	-10.744	PK
2		22103.000	45.233	53.235	-28.767	74.000	-8.001	PK
3	*	26943.000	48.096	54.415	-20.104	68.200	-6.319	PK
4		28571.000	47.360	54.598	-20.840	68.200	-7.238	PK

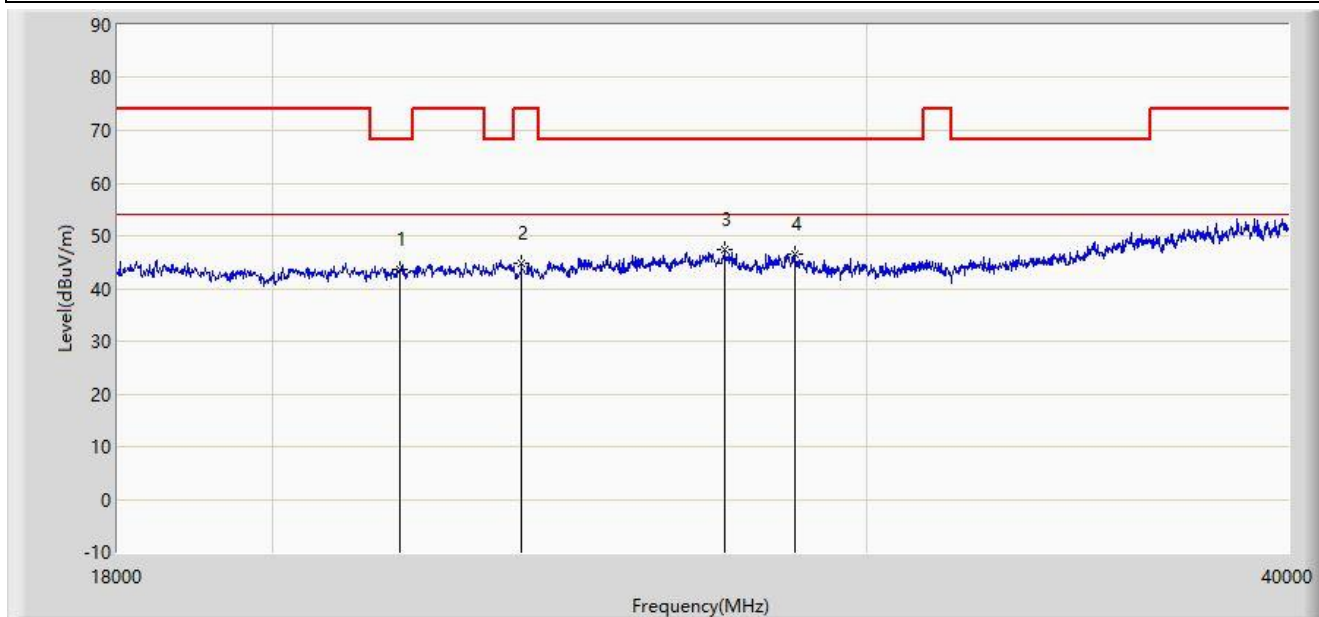
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: WZ-AC2	Time: 2023/07/26 - 11:06
Limit: FCC_Part15.209_RSE(3m)	Engineer: Edith Yu
Probe: BBHA9170_993_18-40GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Note: Transmit by 802.11ax-HE20 at 5745MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		21817.000	43.721	52.514	-24.479	68.200	-8.793	PK
2		23709.000	44.822	52.242	-29.178	74.000	-7.419	PK
3	*	27240.000	47.505	53.925	-20.695	68.200	-6.420	PK
4		28571.000	46.473	53.711	-21.727	68.200	-7.238	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

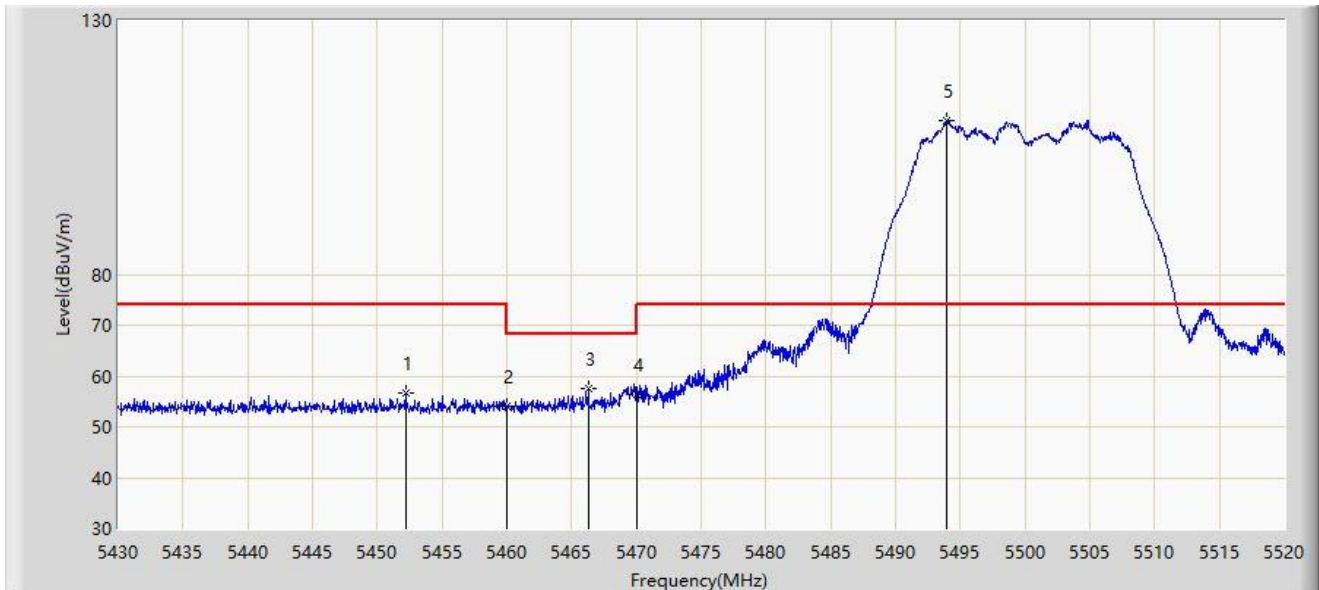
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

A.3 Radiated Restricted Band Edge Test Result

Spot Check

Site: WZ-AC2	Test Date: 2023-07-21
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a_ NSS=1 (48Mbps) at 5500MHz	



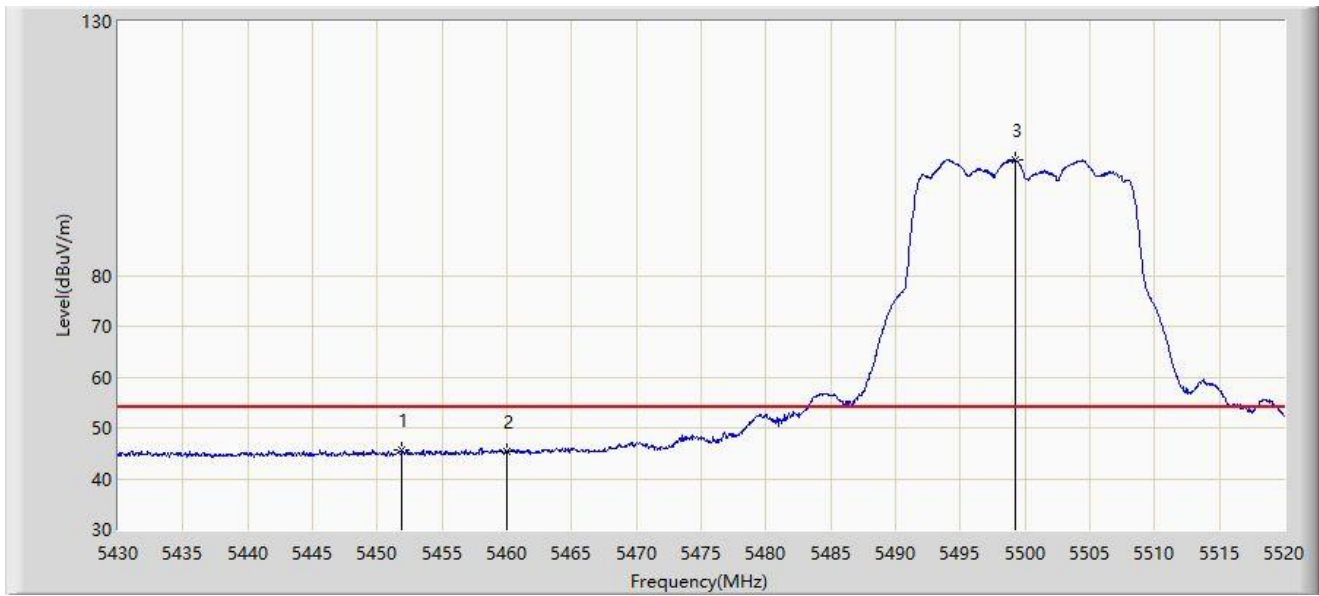
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5452.185	56.644	53.517	-17.356	74.000	3.128	PK
2		5460.000	53.961	50.742	-20.039	74.000	3.219	PK
3	*	5466.270	57.439	54.099	-10.761	68.200	3.340	PK
4		5470.000	56.237	52.825	-11.963	68.200	3.411	PK
5		5493.990	110.335	107.037	N/A	N/A	3.298	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a_ NSS=1 (48Mbps) at 5500MHz	



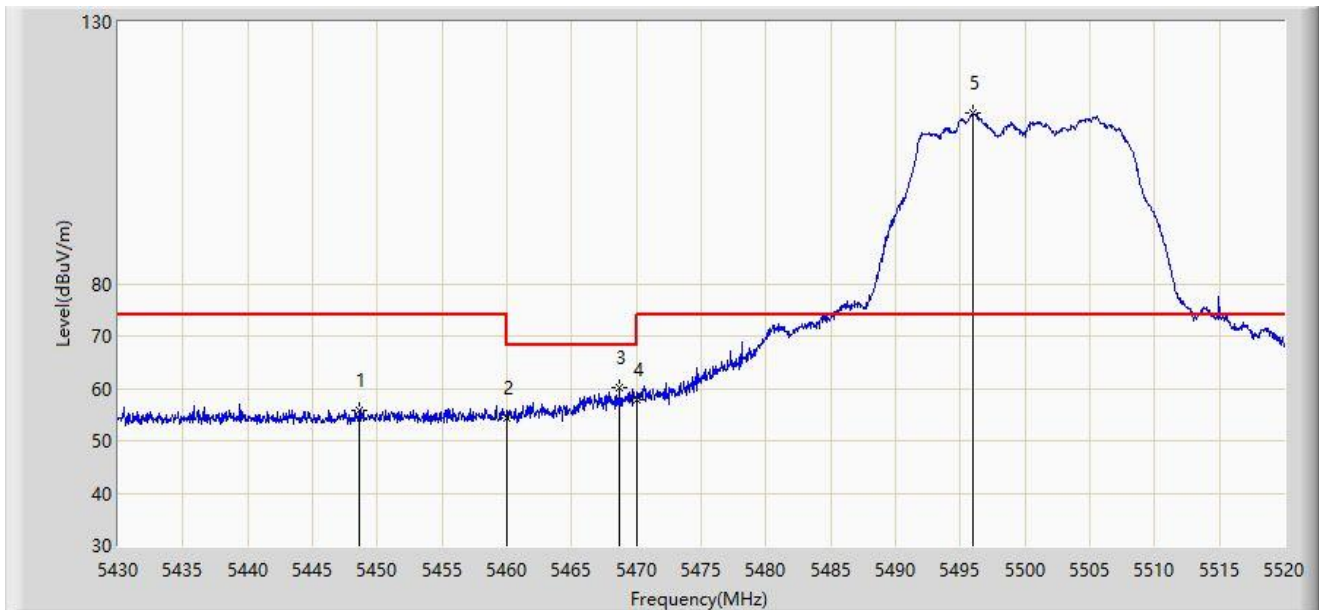
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5451.915	45.528	42.399	-8.472	54.000	3.129	AV
2		5460.000	45.391	42.172	-8.609	54.000	3.219	AV
3		5499.255	102.697	99.436	N/A	N/A	3.261	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a_ NSS=1 (48Mbps) at 5500MHz	



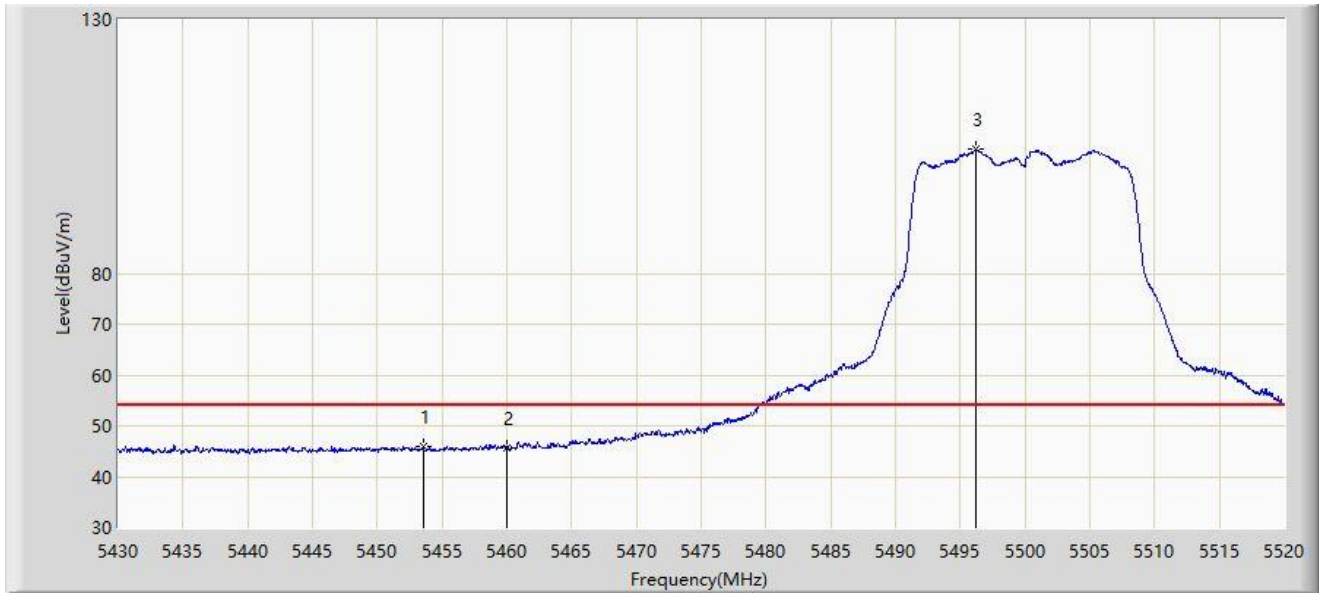
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		5448.630	55.935	52.783	-18.065	74.000	3.153	PK
2		5460.000	54.398	51.179	-19.602	74.000	3.219	PK
3	*	5468.700	60.216	56.829	-7.984	68.200	3.387	PK
4		5470.000	57.794	54.382	-10.406	68.200	3.411	PK
5		5496.015	112.514	109.230	N/A	N/A	3.284	PK

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

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a_ NSS=1 (48Mbps) at 5500MHz	



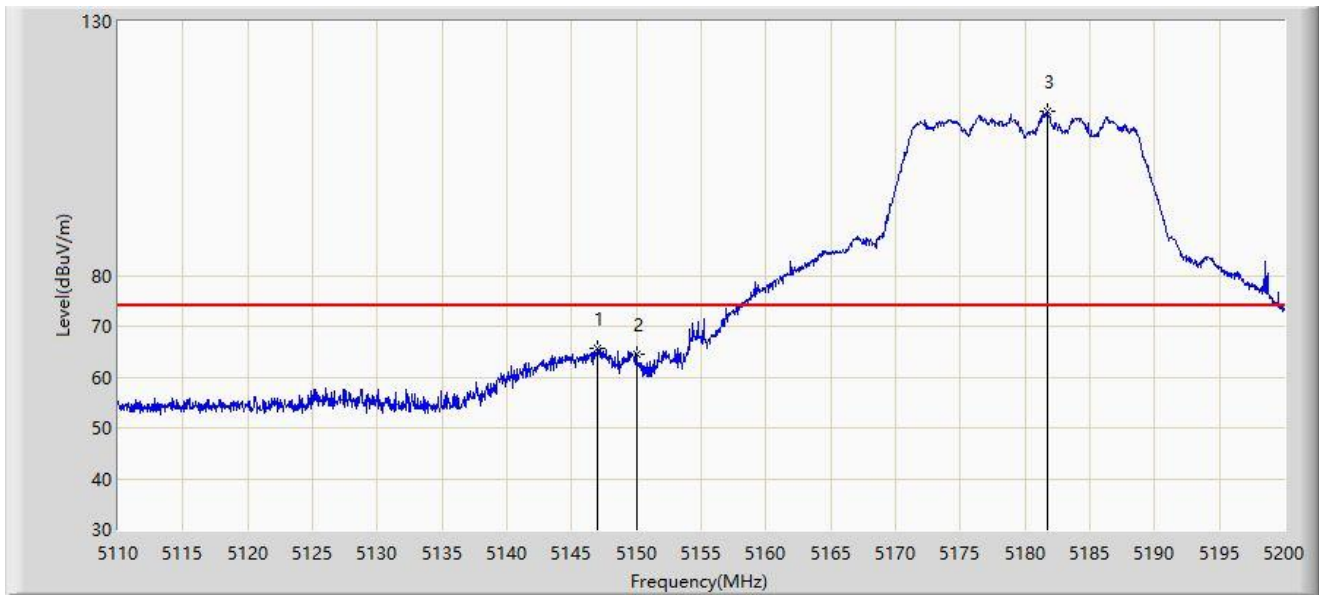
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5453.535	45.889	42.771	-8.111	54.000	3.118	AV
2		5460.000	45.724	42.505	-8.276	54.000	3.219	AV
3		5496.195	104.385	101.103	N/A	N/A	3.283	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20_NSS=1 (MCS5) at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5146.945	65.629	62.152	-8.371	74.000	3.476	PK
2		5150.000	64.366	60.867	-9.634	74.000	3.499	PK
3		5181.685	112.250	108.968	N/A	N/A	3.282	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20_NSS=1 (MCS5) at 5180MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5149.600	50.075	46.577	-3.925	54.000	3.497	AV
2		5150.000	49.853	46.354	-4.147	54.000	3.499	AV
3		5179.075	102.577	99.245	N/A	N/A	3.333	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20_NSS=1 (MCS5) at 5180MHz	



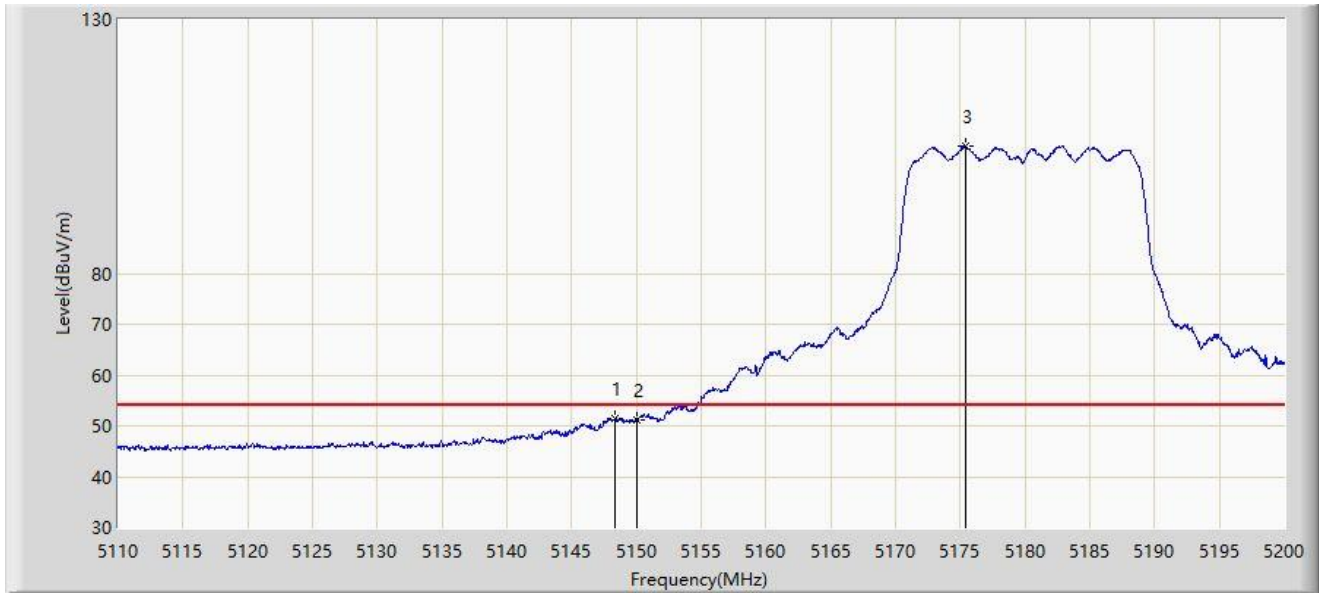
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5148.070	67.002	63.510	-6.998	74.000	3.492	PK
2		5150.000	64.475	60.976	-9.525	74.000	3.499	PK
3		5175.610	112.097	108.699	N/A	N/A	3.399	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20_NSS=1 (MCS5) at 5180MHz	



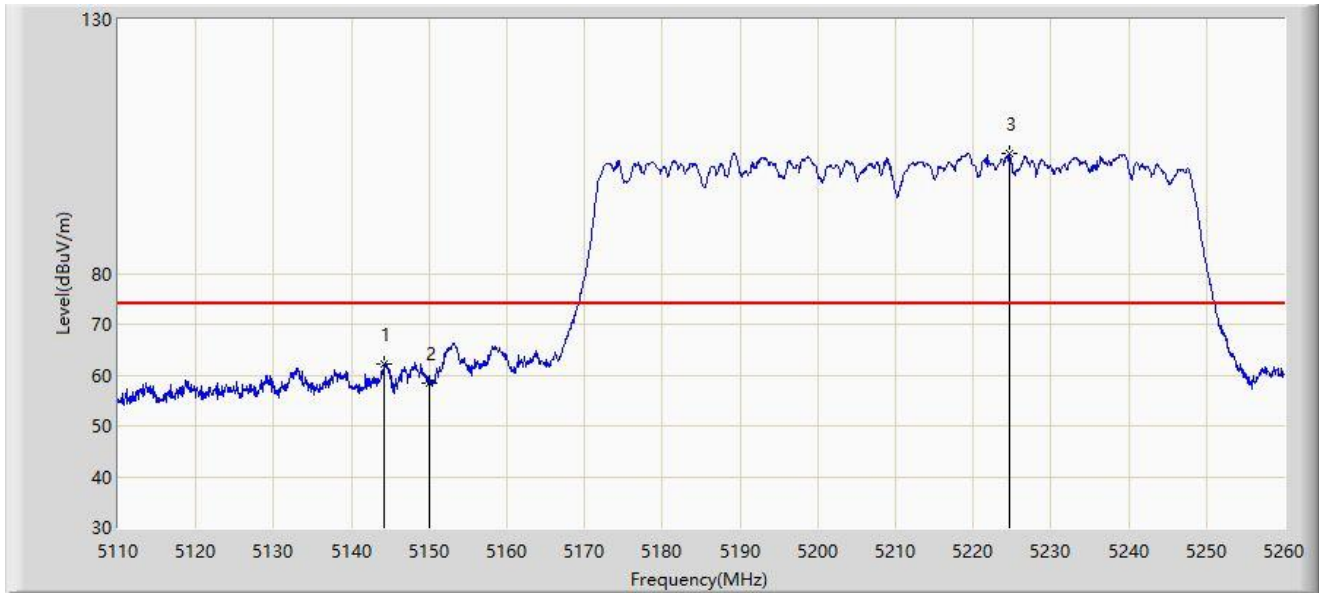
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5148.385	51.364	47.871	-2.636	54.000	3.493	AV
2		5150.000	51.298	47.799	-2.702	54.000	3.499	AV
3		5175.385	105.075	101.673	N/A	N/A	3.402	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS9) at 5210MHz	



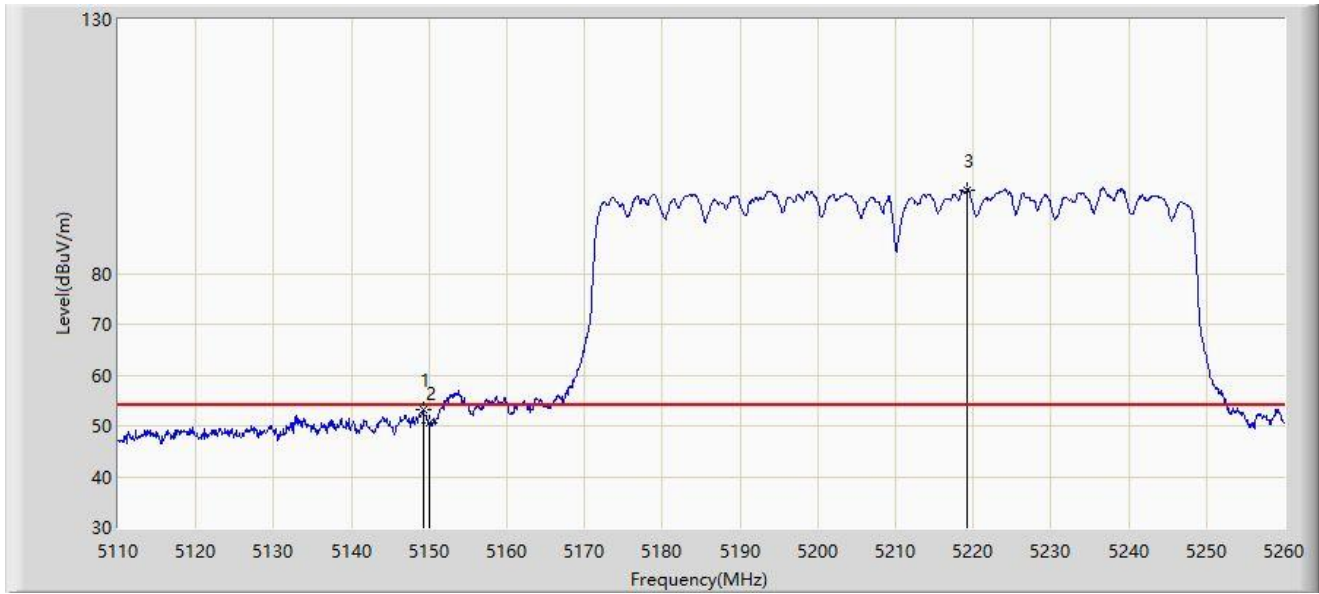
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5144.275	62.195	58.756	-11.805	74.000	3.439	PK
2		5150.000	58.525	55.026	-15.475	74.000	3.499	PK
3		5224.750	103.629	100.518	N/A	N/A	3.111	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS9) at 5210MHz	



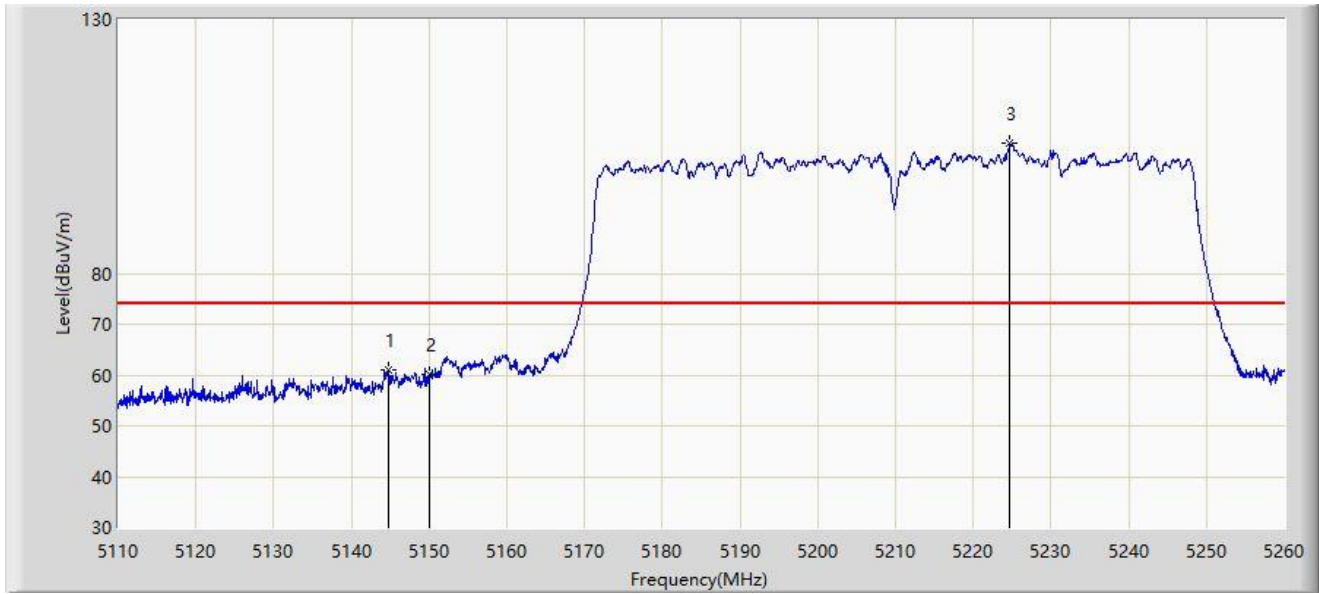
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5149.225	53.101	49.605	-0.899	54.000	3.496	AV
2		5150.000	50.457	46.958	-3.543	54.000	3.499	AV
3		5219.200	96.414	93.394	N/A	N/A	3.020	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS9) at 5210MHz	



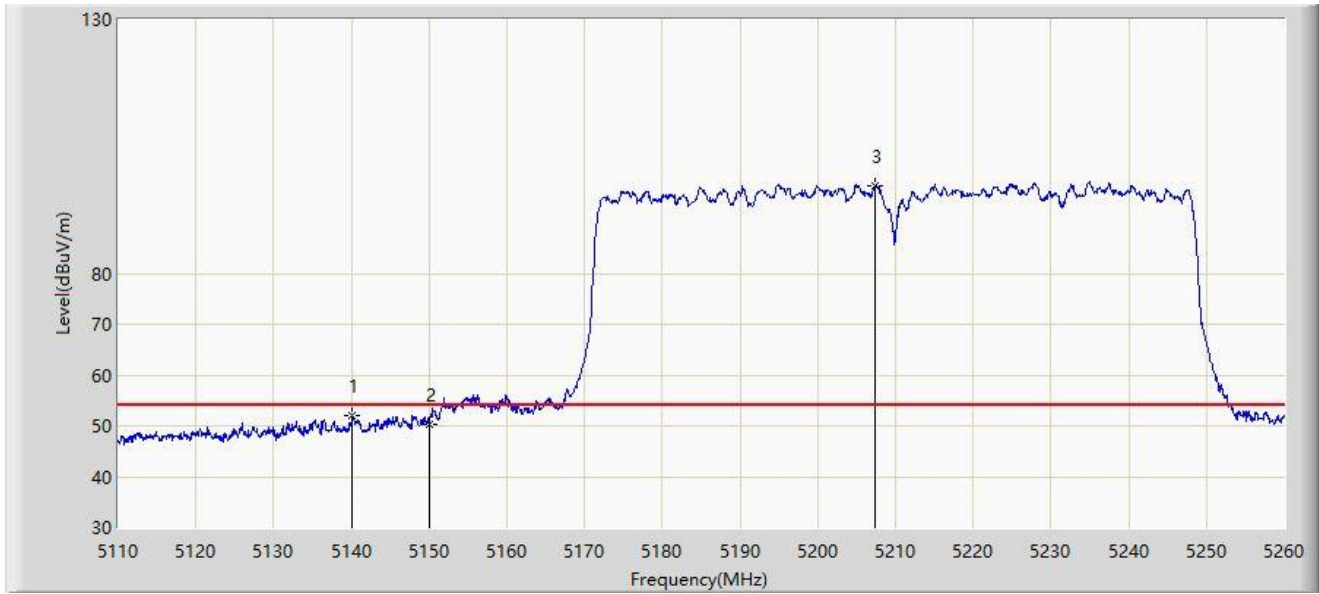
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5144.800	61.158	57.712	-12.842	74.000	3.447	PK
2		5150.000	60.024	56.525	-13.976	74.000	3.499	PK
3		5224.750	105.756	102.645	N/A	N/A	3.111	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS9) at 5210MHz	



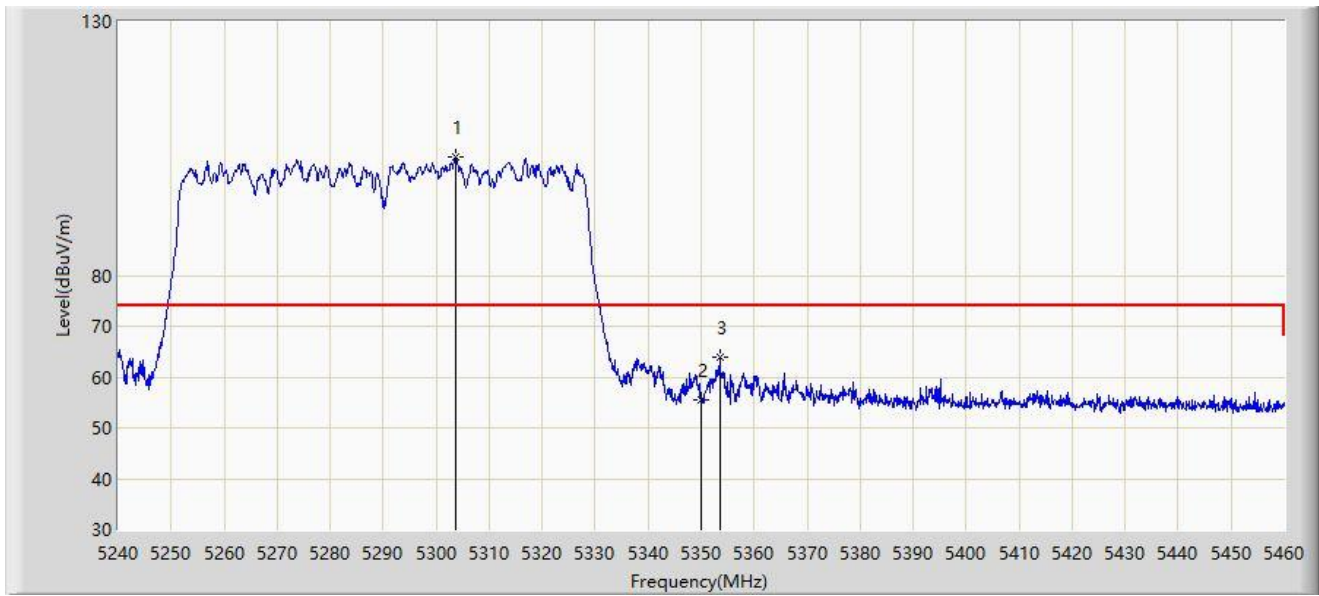
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5140.150	51.973	48.593	-2.027	54.000	3.380	AV
2		5150.000	50.284	46.785	-3.716	54.000	3.499	AV
3		5207.425	97.309	94.367	N/A	N/A	2.943	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS8) at 5290MHz	



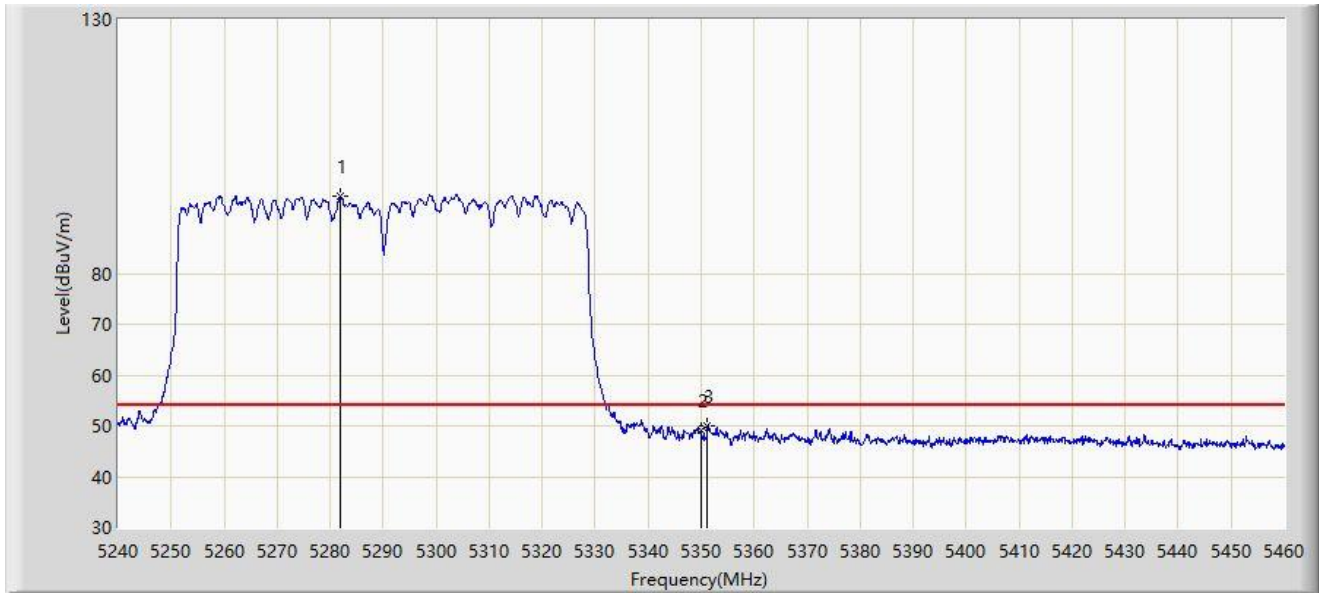
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5303.690	103.237	100.430	N/A	N/A	2.808	PK
2		5350.000	55.494	52.663	-18.506	74.000	2.832	PK
3	*	5353.520	63.796	60.991	-10.204	74.000	2.805	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS8) at 5290MHz	



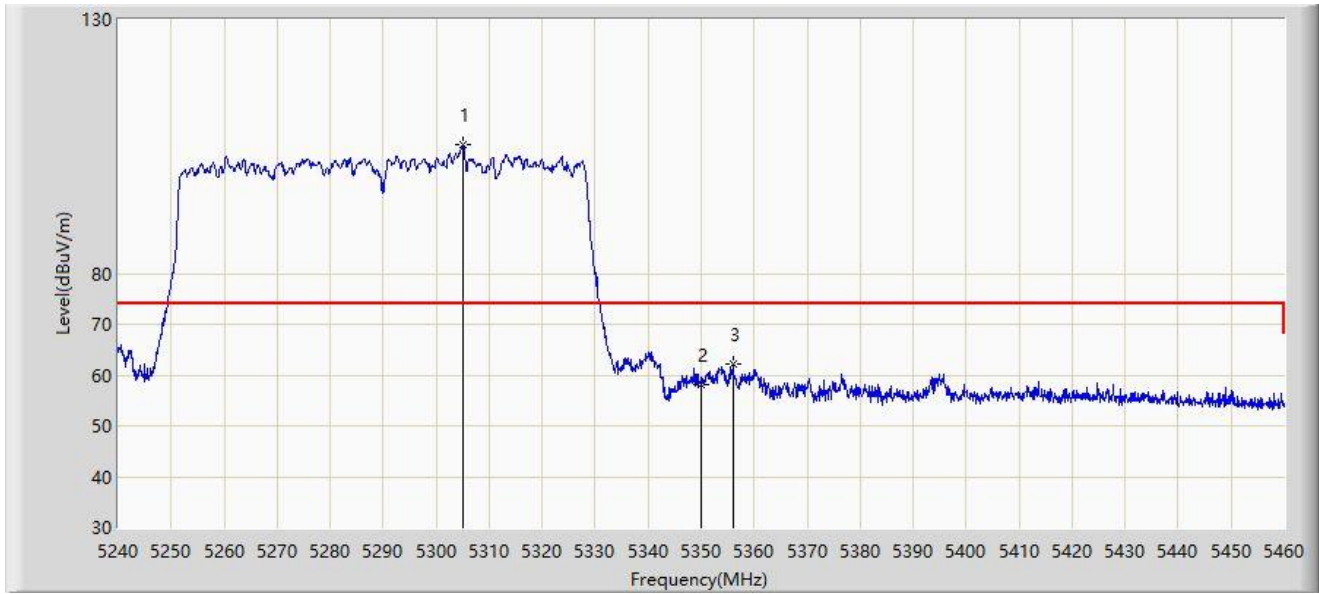
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5282.020	95.171	92.610	N/A	N/A	2.561	AV
2		5350.000	49.043	46.212	-4.957	54.000	2.832	AV
3	*	5351.210	50.057	47.246	-3.943	54.000	2.811	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS8) at 5290MHz	



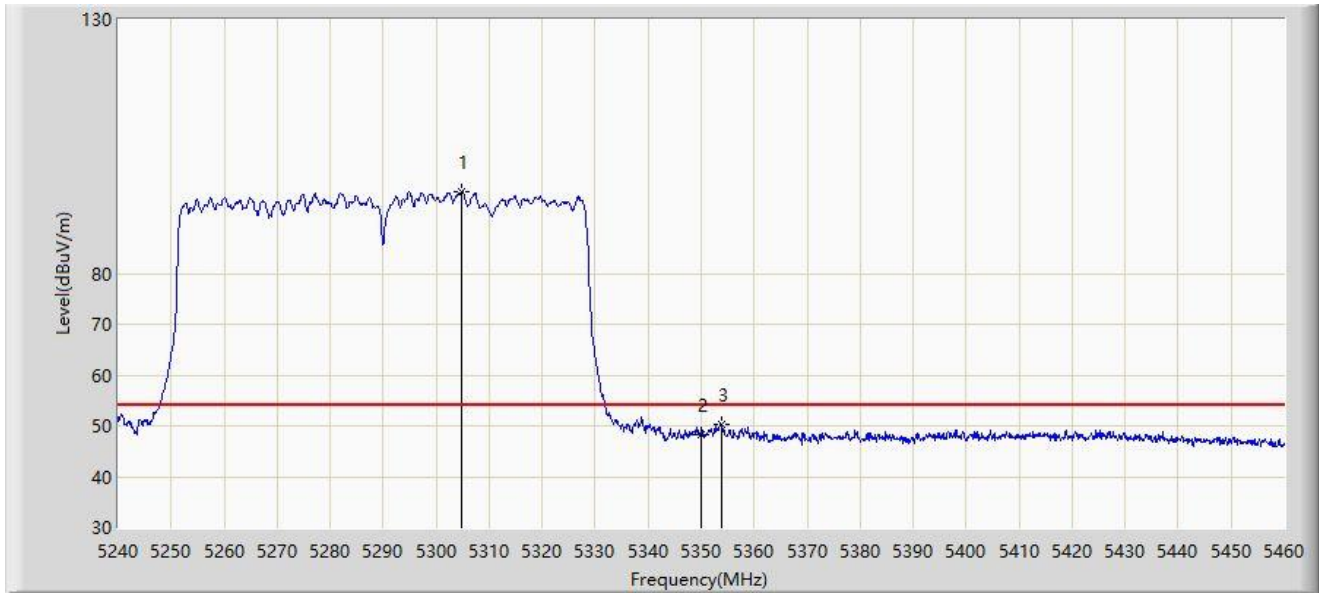
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5305.120	105.437	102.608	N/A	N/A	2.829	PK
2		5350.000	58.148	55.317	-15.852	74.000	2.832	PK
3	*	5355.940	62.144	59.328	-11.856	74.000	2.817	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS8) at 5290MHz	



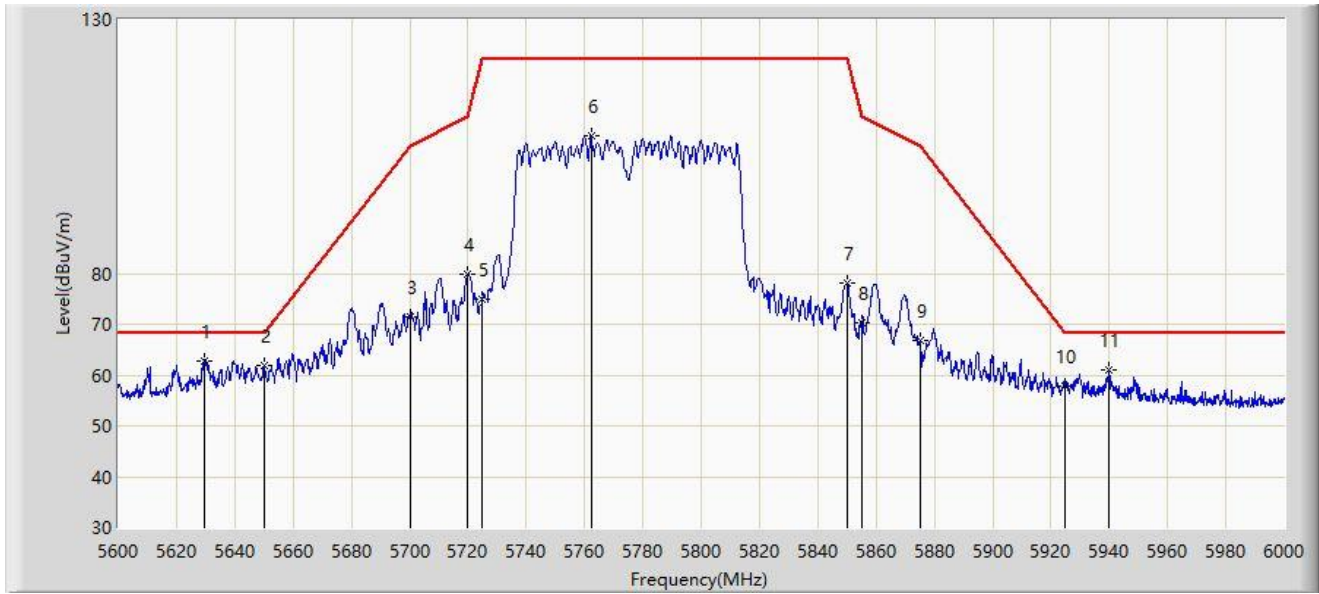
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5304.680	96.001	93.179	N/A	N/A	2.823	AV
2		5350.000	48.387	45.556	-5.613	54.000	2.832	AV
3	*	5353.850	50.269	47.463	-3.731	54.000	2.806	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS1) at 5775MHz	



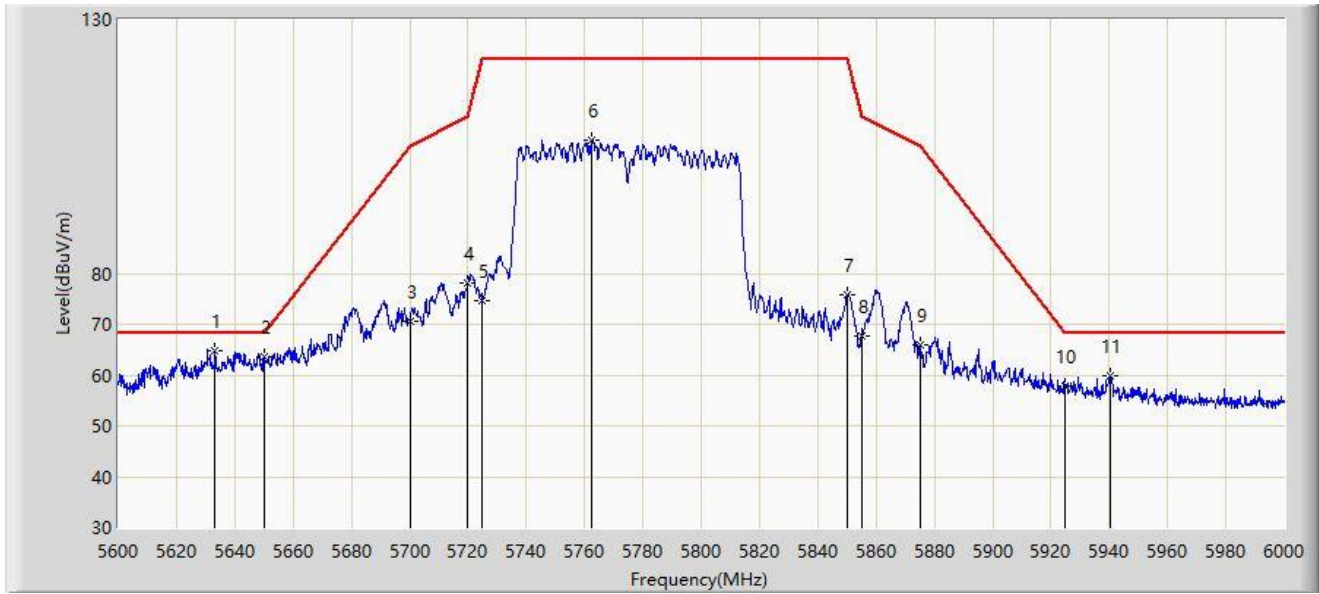
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5629.400	62.861	58.792	-5.339	68.200	4.069	PK
2		5650.000	62.000	57.840	-6.200	68.200	4.160	PK
3		5700.000	71.478	67.048	-33.722	105.200	4.430	PK
4		5720.000	79.896	75.246	-30.904	110.800	4.649	PK
5		5725.000	74.944	70.256	-47.256	122.200	4.688	PK
6		5762.200	107.048	102.413	N/A	N/A	4.636	PK
7		5850.000	78.130	73.170	-44.070	122.200	4.960	PK
8		5855.000	70.215	65.196	-40.585	110.800	5.019	PK
9		5875.000	66.941	61.805	-38.259	105.200	5.136	PK
10		5925.000	57.801	52.531	-10.399	68.200	5.271	PK
11		5939.800	60.971	55.651	-7.229	68.200	5.320	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80_NSS=1 (MCS1) at 5775MHz	



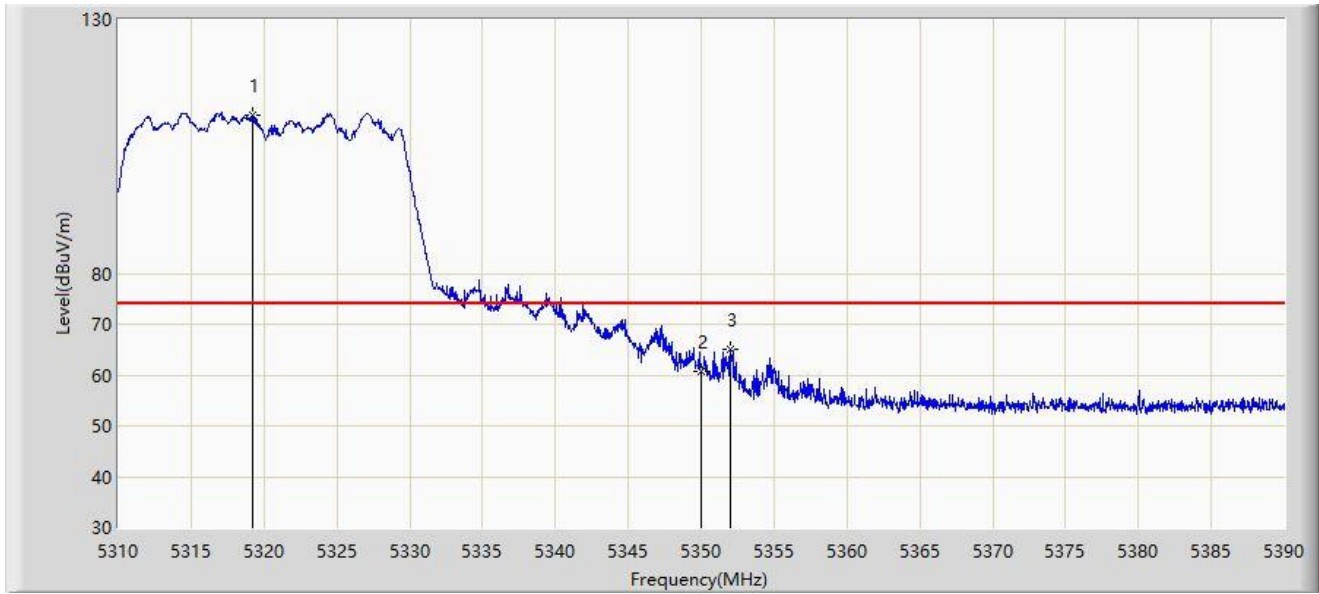
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5633.200	64.693	60.579	-3.507	68.200	4.115	PK
2		5650.000	63.519	59.359	-4.681	68.200	4.160	PK
3		5700.000	70.526	66.096	-34.674	105.200	4.430	PK
4		5720.000	78.073	73.423	-32.727	110.800	4.649	PK
5		5725.000	74.563	69.875	-47.637	122.200	4.688	PK
6		5762.600	106.131	101.488	N/A	N/A	4.643	PK
7		5850.000	75.662	70.702	-46.538	122.200	4.960	PK
8		5855.000	67.611	62.592	-43.189	110.800	5.019	PK
9		5875.000	65.911	60.775	-39.289	105.200	5.136	PK
10		5925.000	57.789	52.519	-10.411	68.200	5.271	PK
11		5940.200	59.767	54.446	-8.433	68.200	5.320	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20_NSS=1 (MCS9) at 5320MHz	



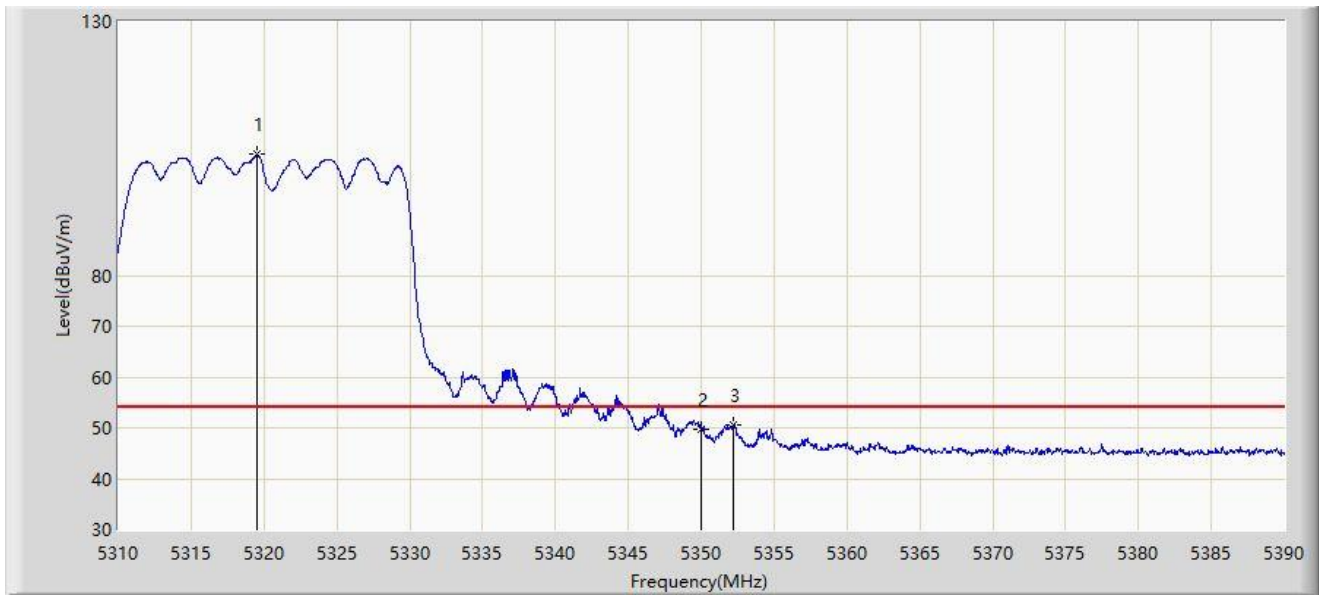
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5319.240	111.057	108.026	N/A	N/A	3.031	PK
2		5350.000	60.826	57.995	-7.374	68.200	2.832	PK
3	*	5352.000	65.004	62.207	-3.196	68.200	2.798	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20_NSS=1 (MCS9) at 5320MHz	



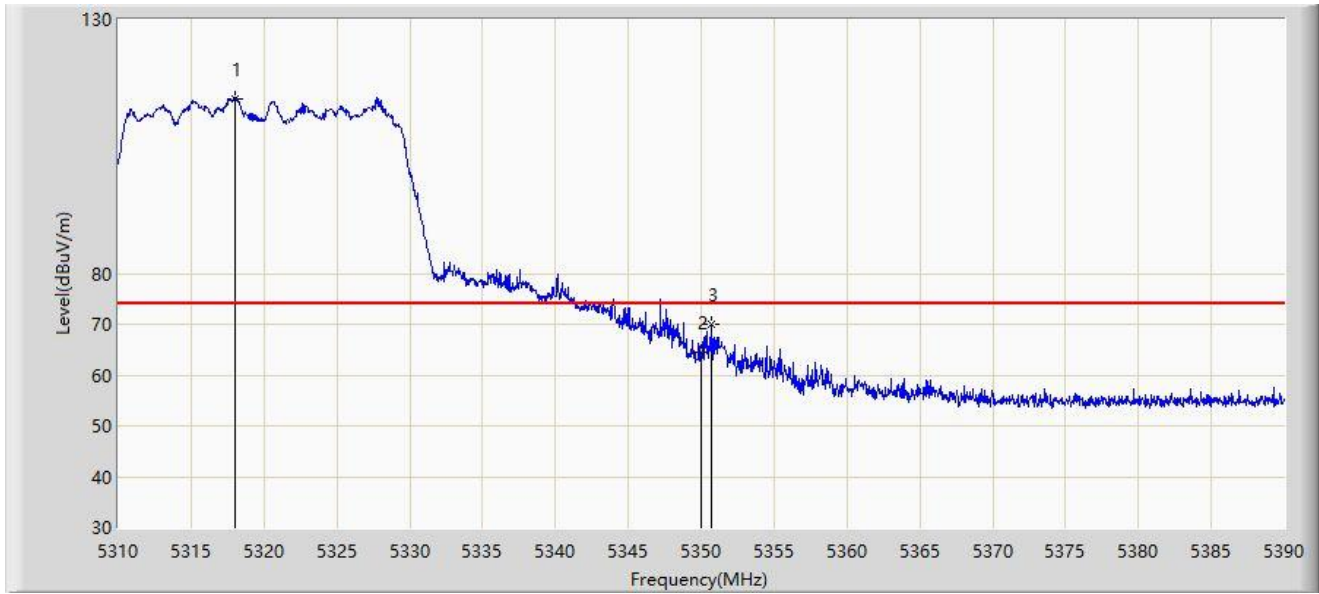
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5319.520	103.852	100.822	N/A	N/A	3.031	AV
2		5350.000	49.783	46.952	-4.217	54.000	2.832	AV
3	*	5352.160	50.656	47.858	-3.344	54.000	2.798	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20_NSS=1 (MCS9) at 5320MHz	



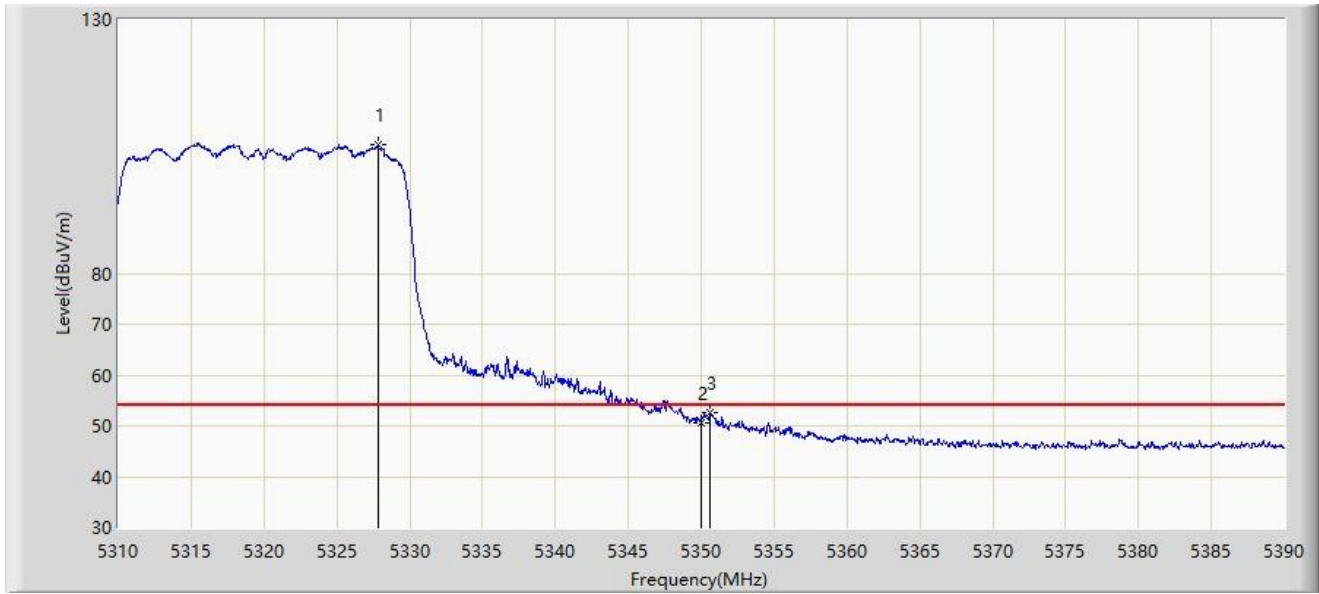
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5318.040	114.333	111.300	N/A	N/A	3.033	PK
2		5350.000	64.386	61.555	-9.614	74.000	2.832	PK
3	*	5350.680	69.866	67.046	-4.134	74.000	2.820	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20_NSS=1 (MCS9) at 5320MHz	



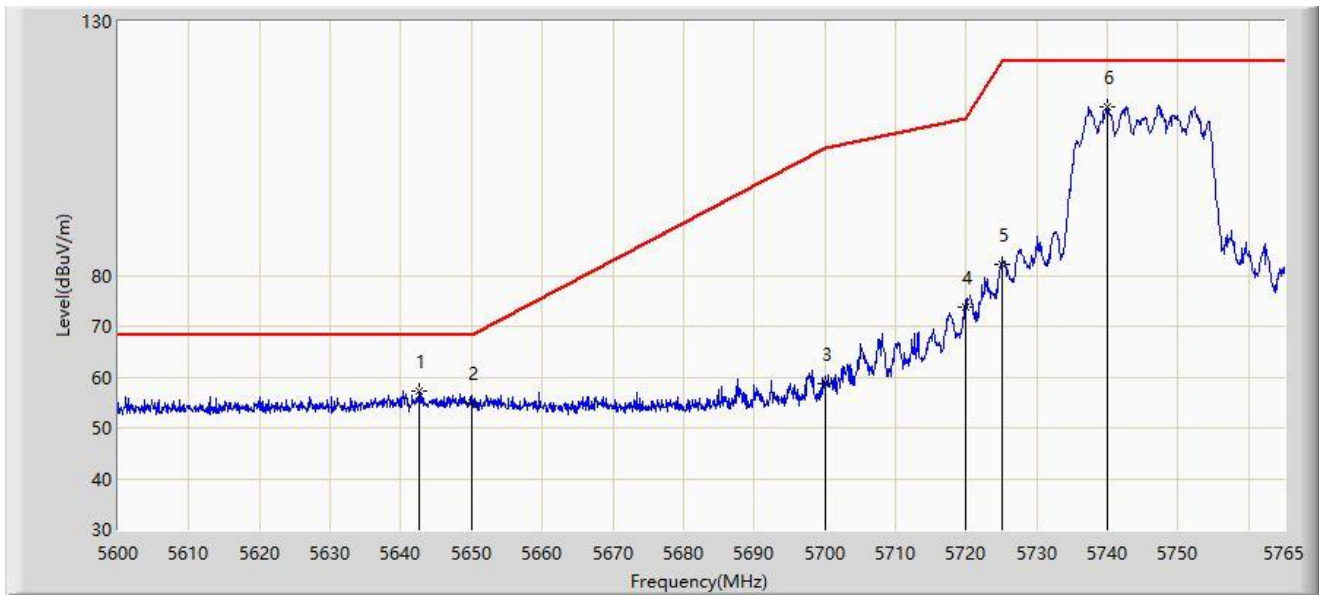
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5327.840	105.218	102.204	N/A	N/A	3.013	AV
2		5350.000	50.667	47.836	-3.333	54.000	2.832	AV
3	*	5350.640	52.648	49.828	-1.352	54.000	2.821	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20_NSS=1 (MCS8) at 5745MHz	



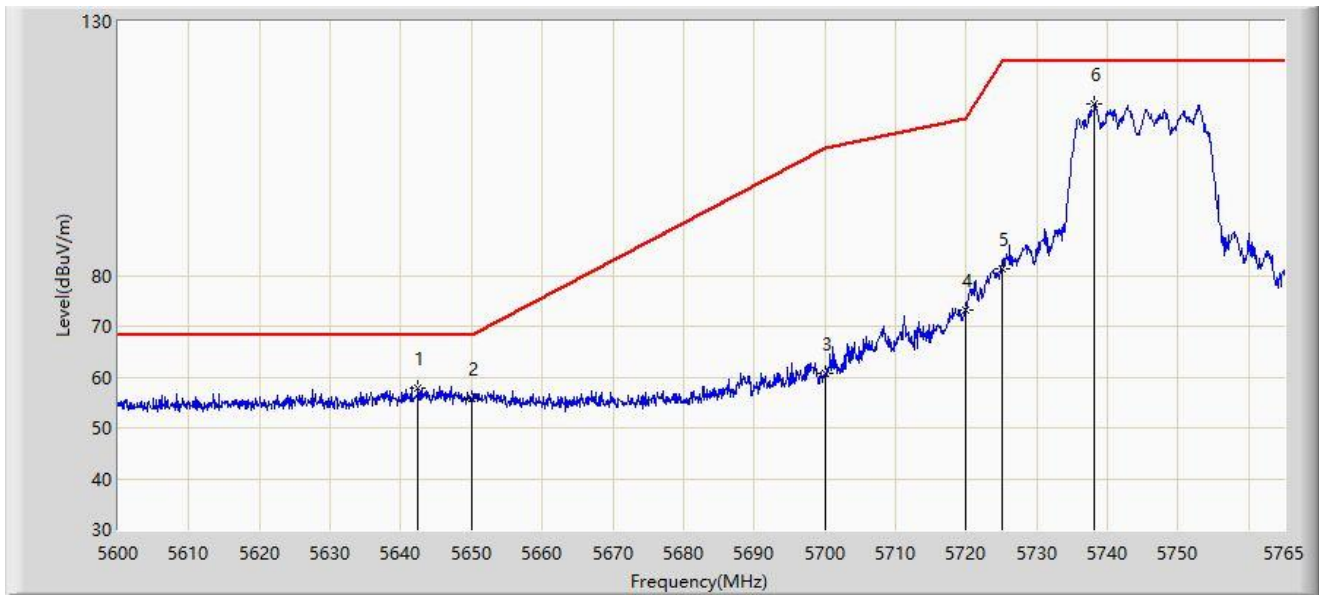
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5642.570	57.144	52.942	-11.056	68.200	4.203	PK
2		5650.000	54.833	50.673	-13.367	68.200	4.160	PK
3		5700.000	58.797	54.367	-46.403	105.200	4.430	PK
4		5720.000	73.808	69.158	-36.992	110.800	4.649	PK
5		5725.000	82.070	77.382	-40.130	122.200	4.688	PK
6		5739.920	113.206	108.756	N/A	N/A	4.451	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20_NSS=1 (MCS8) at 5745MHz	



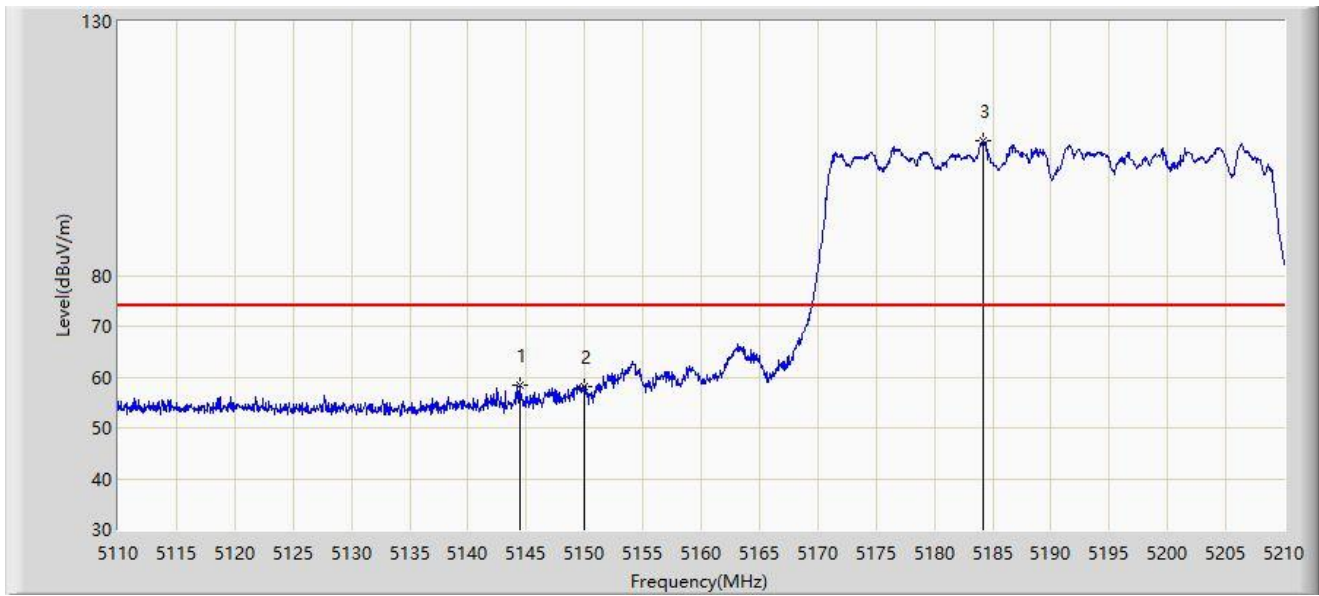
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5642.487	57.876	53.674	-10.324	68.200	4.201	PK
2		5650.000	55.660	51.500	-12.540	68.200	4.160	PK
3		5700.000	60.606	56.176	-44.594	105.200	4.430	PK
4		5720.000	73.254	68.604	-37.546	110.800	4.649	PK
5		5725.000	81.270	76.582	-40.930	122.200	4.688	PK
6		5738.187	113.763	109.282	N/A	N/A	4.482	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS9) at 5190MHz	



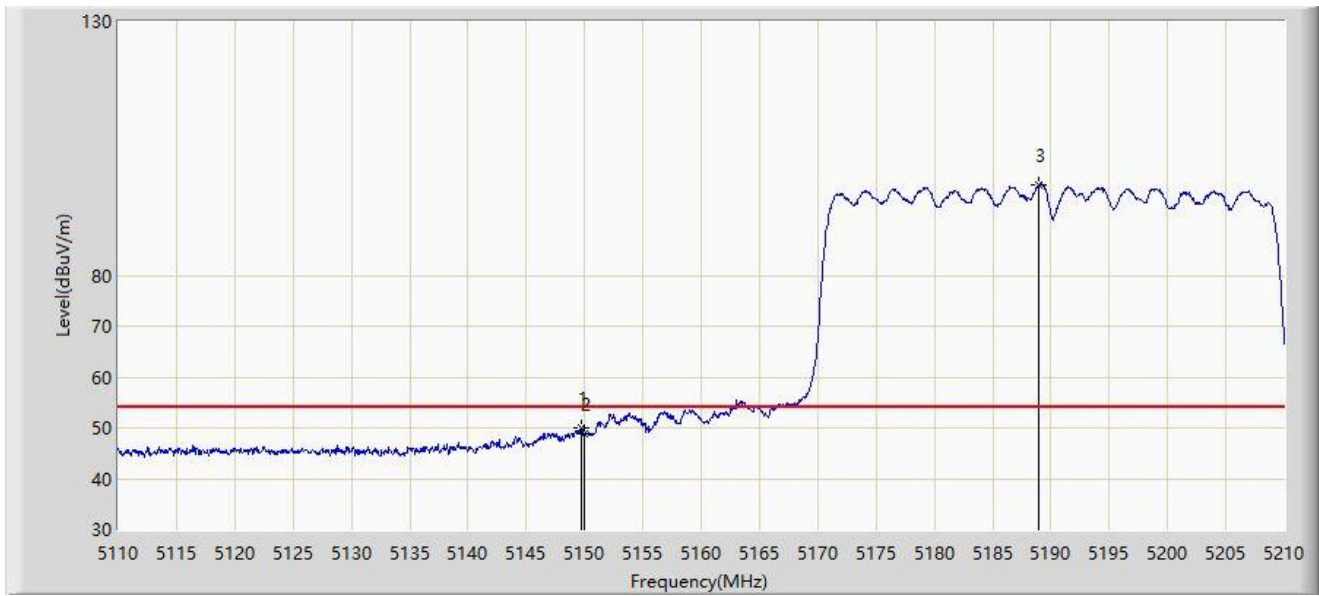
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5144.500	58.463	55.021	-9.737	68.200	3.443	PK
2		5150.000	58.083	54.584	-10.117	68.200	3.499	PK
3		5184.200	106.598	103.371	N/A	N/A	3.227	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS9) at 5190MHz	



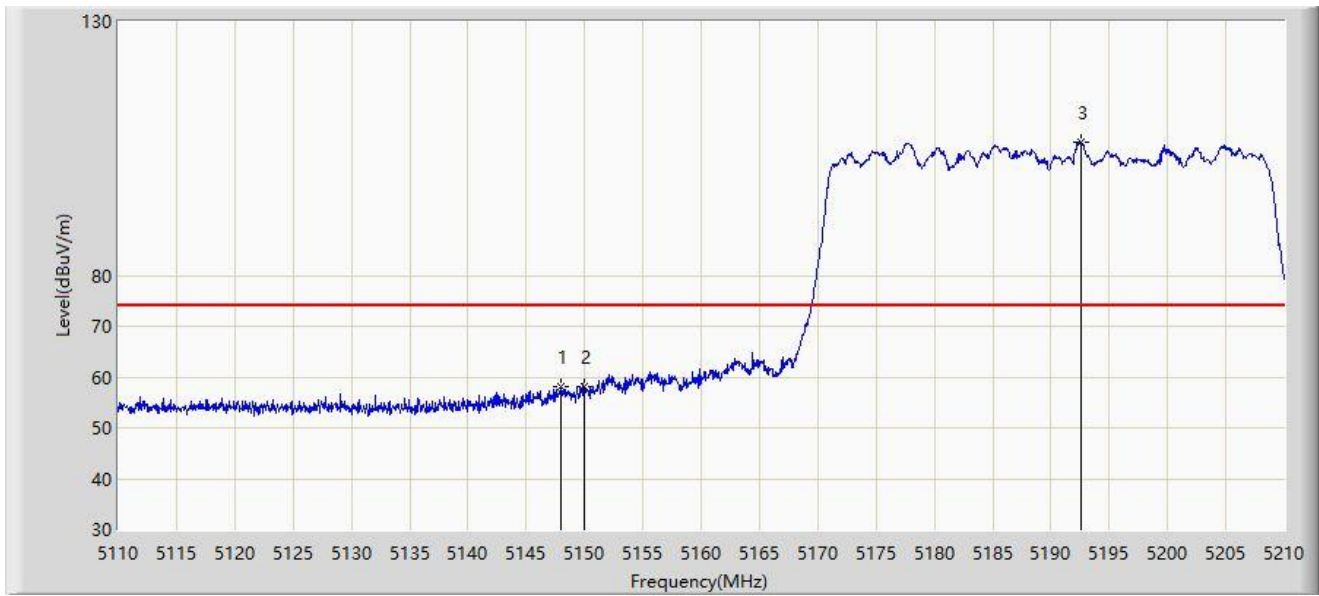
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5149.750	49.892	46.394	-4.108	54.000	3.499	AV
2		5150.000	48.763	45.264	-5.237	54.000	3.499	AV
3		5189.000	97.862	94.739	N/A	N/A	3.123	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS9) at 5190MHz	



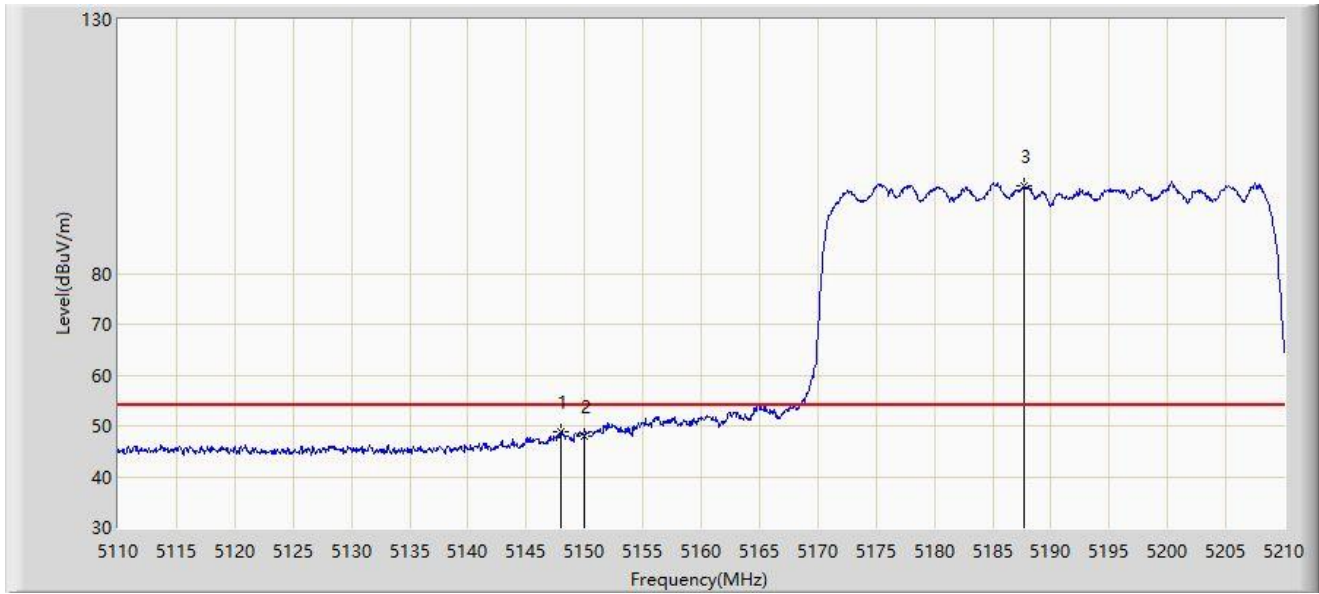
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5147.950	58.206	54.715	-15.794	74.000	3.491	PK
2		5150.000	58.181	54.682	-15.819	74.000	3.499	PK
3		5192.550	106.349	103.300	N/A	N/A	3.049	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS9) at 5190MHz	



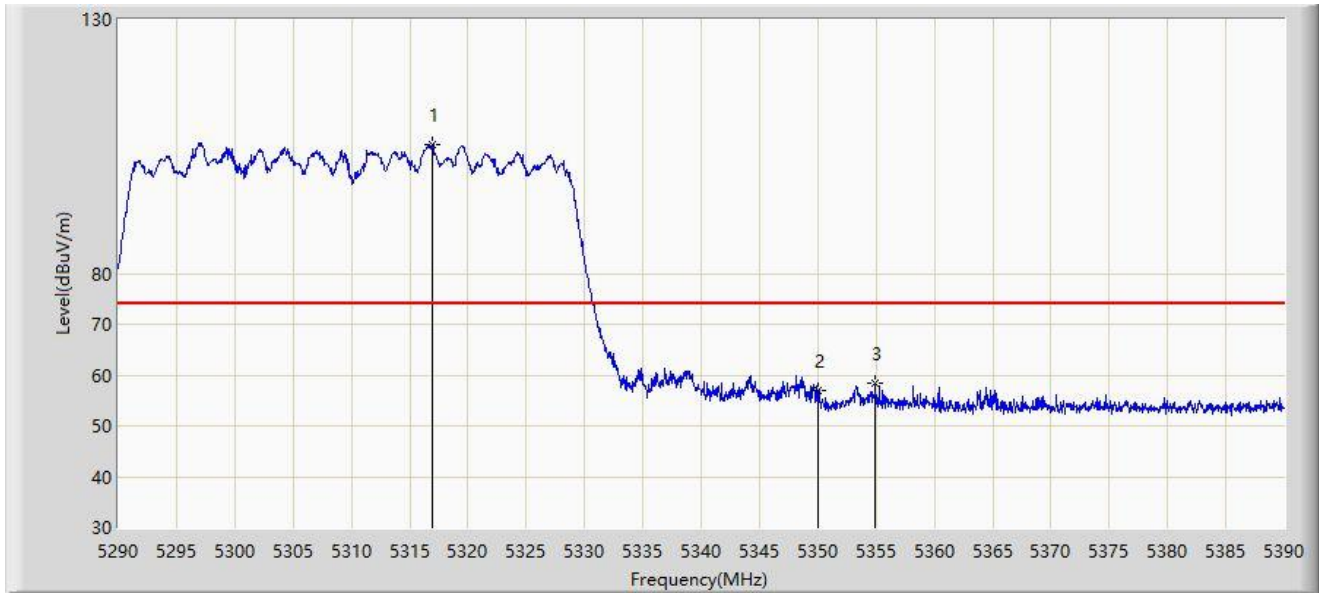
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5148.000	48.803	45.311	-5.197	54.000	3.491	AV
2		5150.000	47.857	44.358	-6.143	54.000	3.499	AV
3		5187.650	97.316	94.165	N/A	N/A	3.150	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5310MHz	



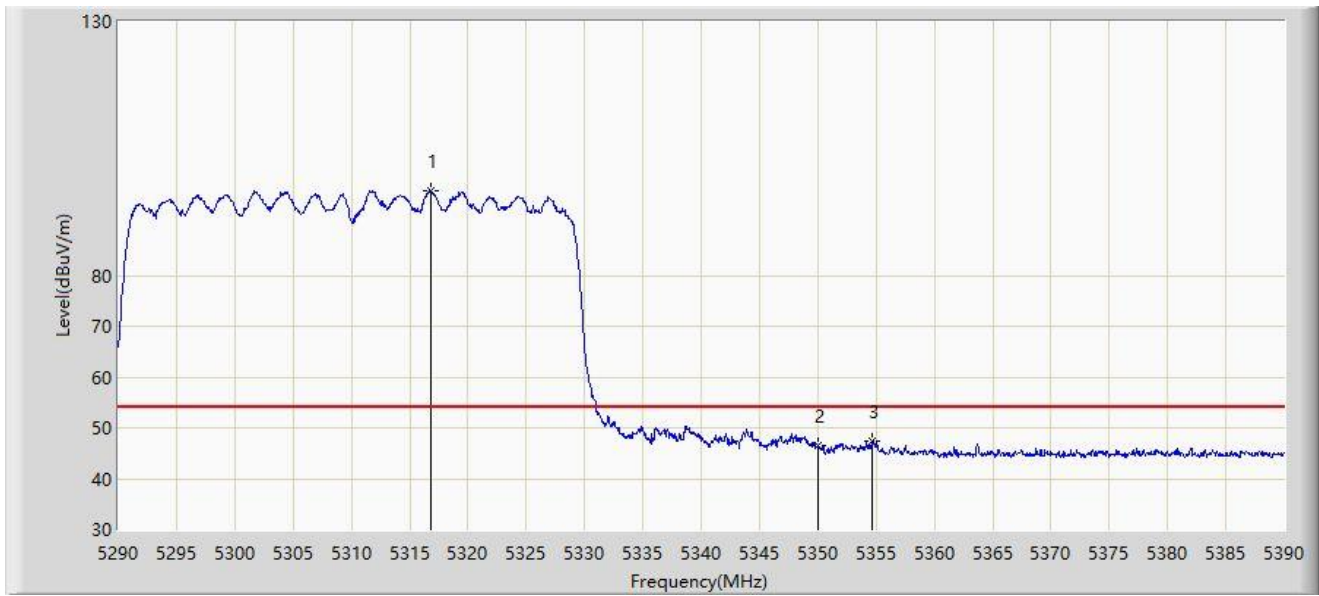
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5317.000	105.434	102.418	N/A	N/A	3.016	PK
2		5350.000	57.089	54.258	-16.911	74.000	2.832	PK
3	*	5354.950	58.419	55.607	-15.581	74.000	2.812	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5310MHz	



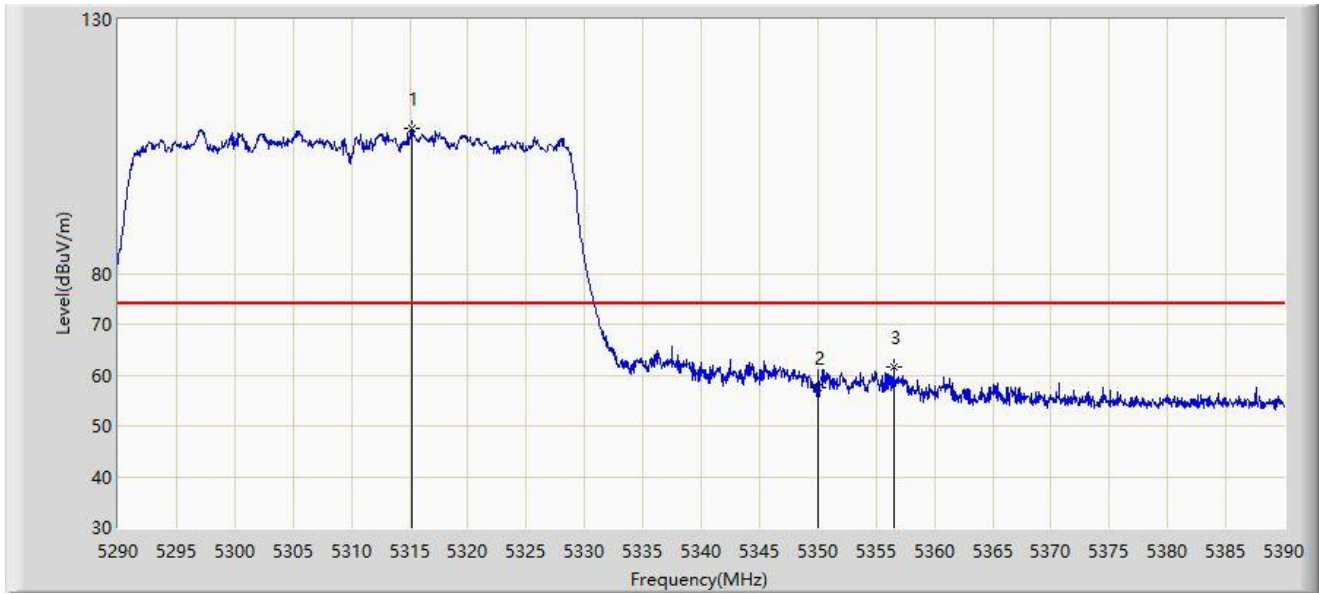
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5316.850	96.563	93.549	N/A	N/A	3.013	AV
2		5350.000	46.645	43.814	-7.355	54.000	2.832	AV
3	*	5354.700	47.454	44.644	-6.546	54.000	2.810	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5310MHz	



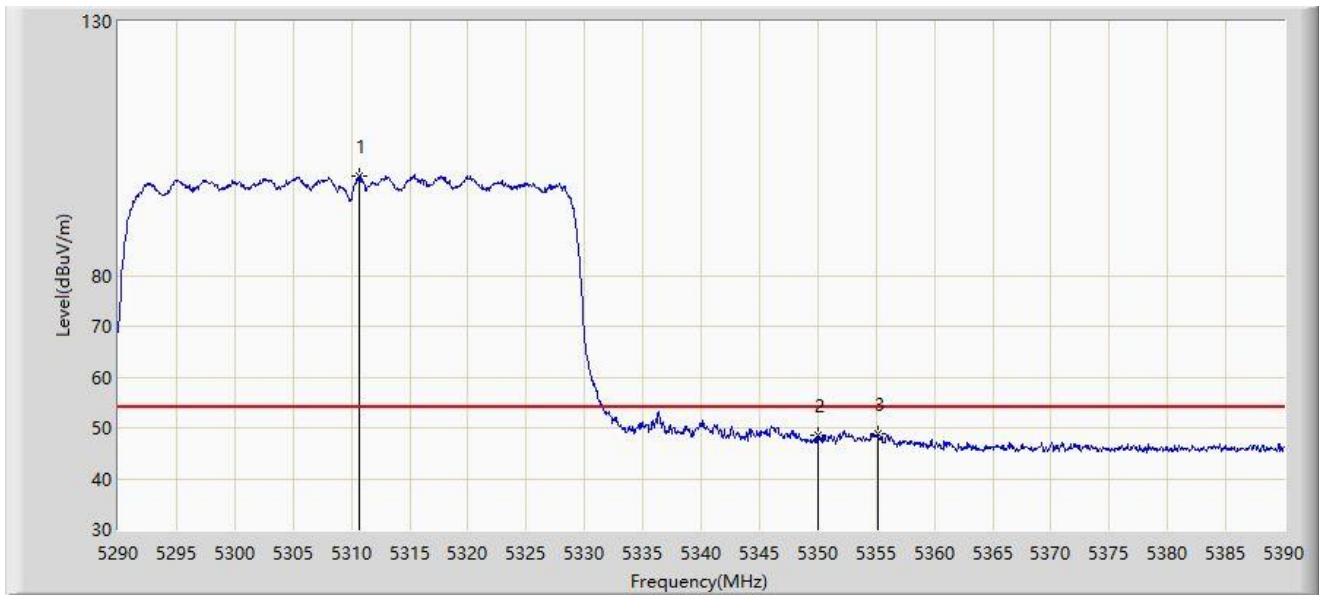
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5315.250	108.494	105.508	N/A	N/A	2.986	PK
2		5350.000	57.514	54.683	-16.486	74.000	2.832	PK
3	*	5356.500	61.604	58.785	-12.396	74.000	2.820	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5310MHz	



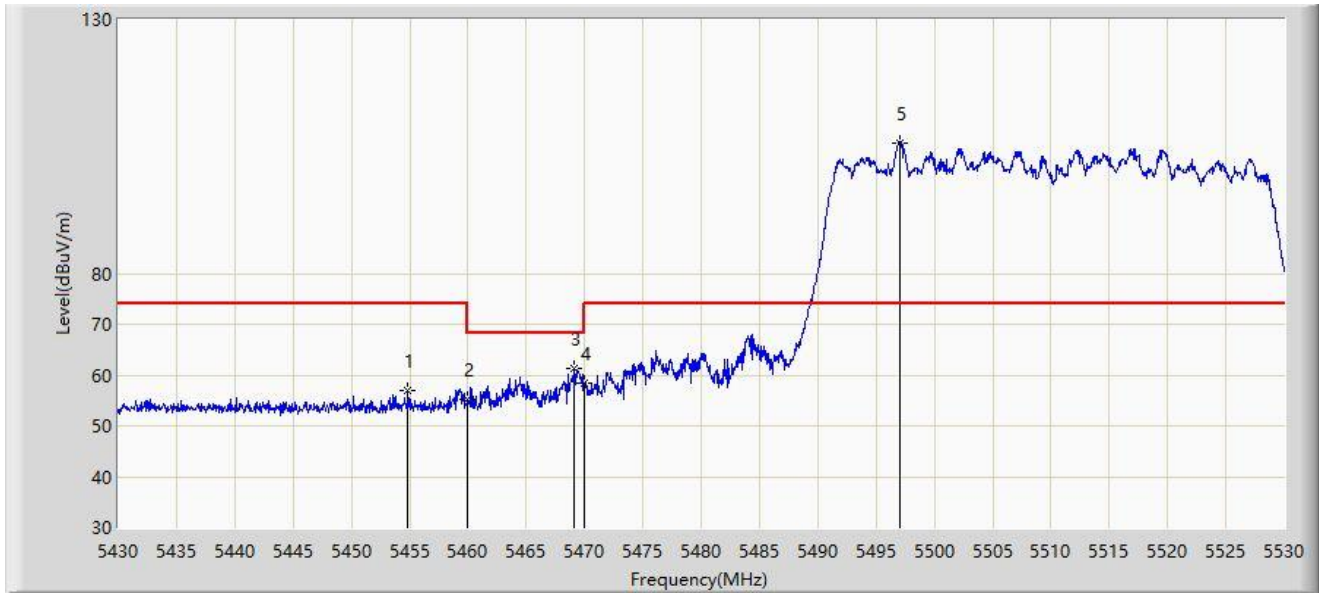
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5310.700	99.457	96.544	N/A	N/A	2.914	AV
2		5350.000	48.688	45.857	-5.312	54.000	2.832	AV
3	*	5355.150	48.926	46.113	-5.074	54.000	2.812	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5510MHz	



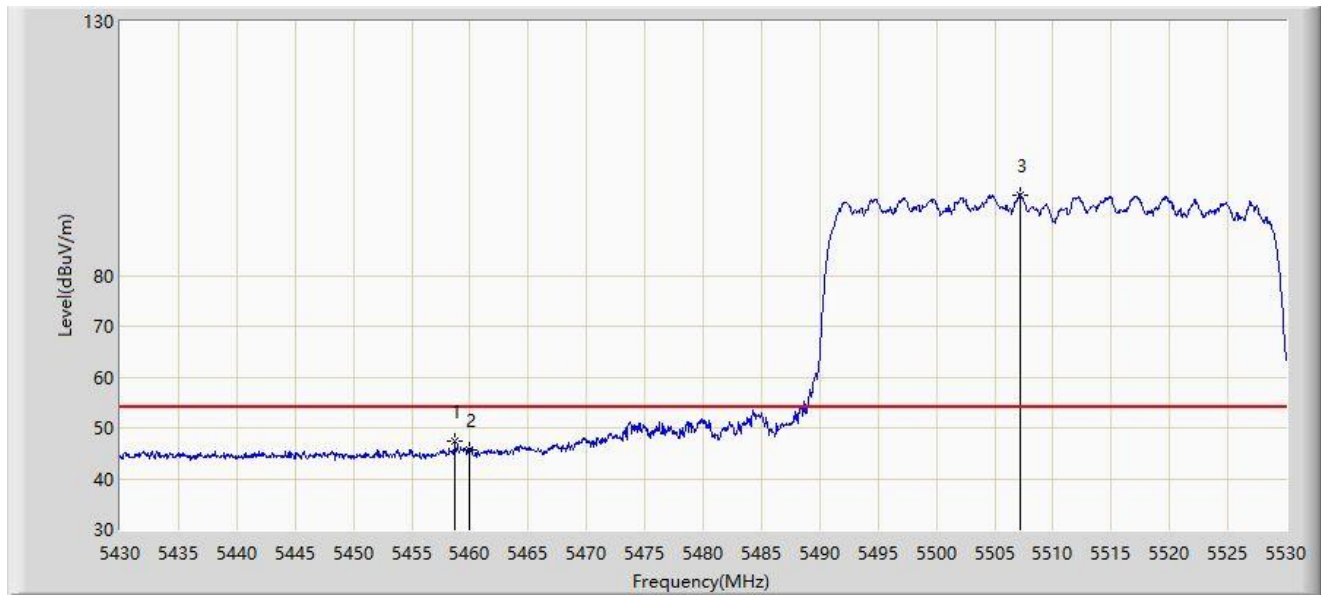
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5454.850	56.823	53.695	-17.177	74.000	3.127	PK
2		5460.000	55.348	52.129	-18.652	74.000	3.219	PK
3	*	5469.150	61.340	57.944	-6.860	68.200	3.396	PK
4		5470.000	58.304	54.892	-9.896	68.200	3.411	PK
5		5497.000	105.716	102.439	N/A	N/A	3.277	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5510MHz	



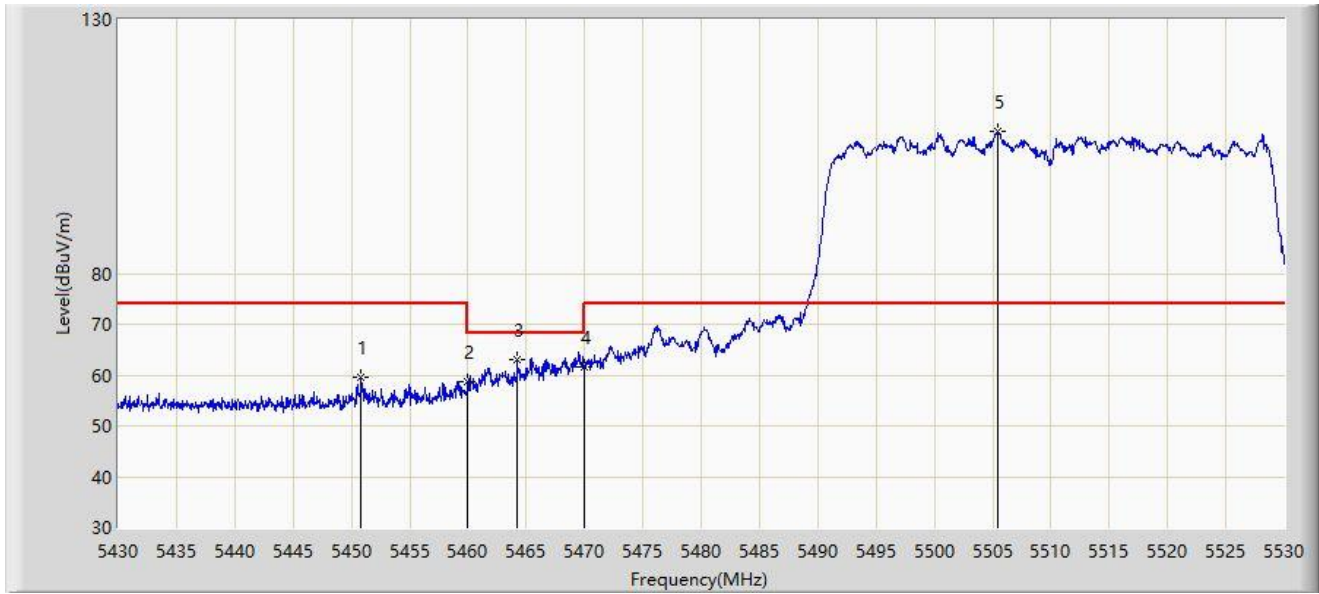
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5458.700	47.393	44.199	-6.607	54.000	3.194	AV
2		5460.000	45.618	42.399	-8.382	54.000	3.219	AV
3		5507.150	95.853	92.655	N/A	N/A	3.198	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5510MHz	



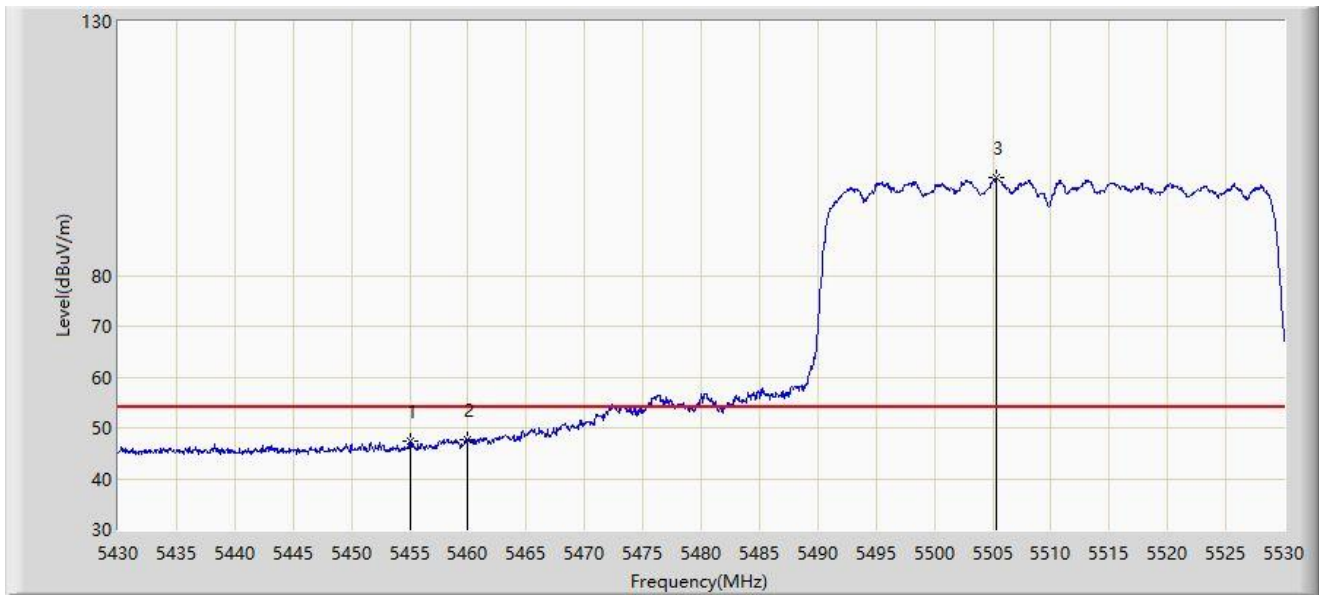
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5450.850	59.620	56.483	-14.380	74.000	3.136	PK
2		5460.000	58.694	55.475	-15.306	74.000	3.219	PK
3	*	5464.200	63.101	59.801	-5.099	68.200	3.301	PK
4		5470.000	61.666	58.254	-6.534	68.200	3.411	PK
5		5505.450	107.843	104.627	N/A	N/A	3.216	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS5) at 5510MHz	



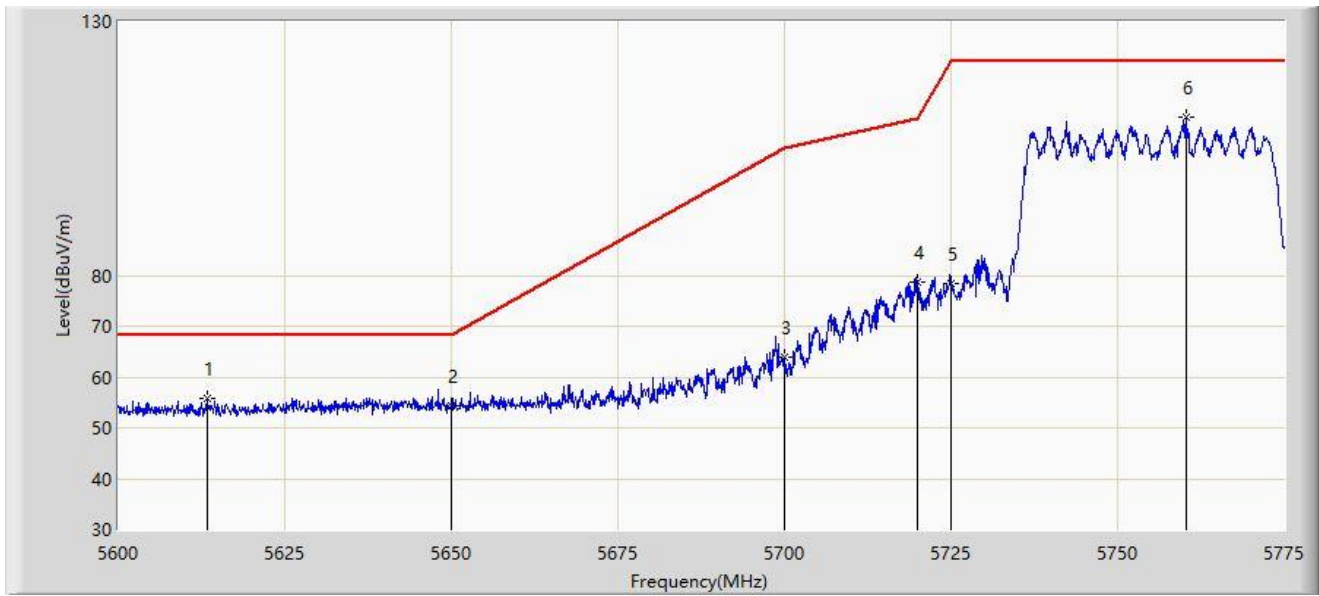
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5455.050	47.508	44.377	-6.492	54.000	3.131	AV
2	*	5460.000	47.600	44.381	-6.400	54.000	3.219	AV
3		5505.350	99.318	96.101	N/A	N/A	3.217	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS0) at 5755MHz	



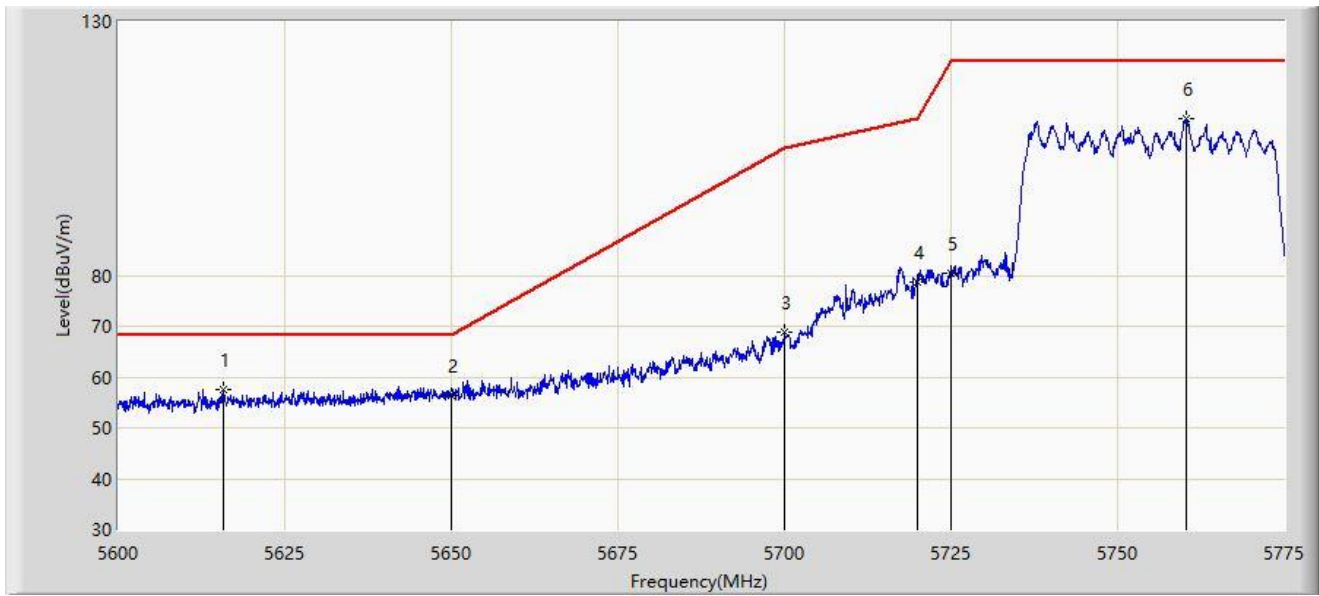
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5613.300	55.828	52.083	-12.372	68.200	3.745	PK
2		5650.000	54.237	50.077	-13.963	68.200	4.160	PK
3		5700.000	63.816	59.386	-41.384	105.200	4.430	PK
4		5720.000	78.634	73.984	-32.166	110.800	4.649	PK
5		5725.000	78.473	73.785	-43.727	122.200	4.688	PK
6		5760.212	111.097	106.511	N/A	N/A	4.585	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40_NSS=1 (MCS0) at 5755MHz	



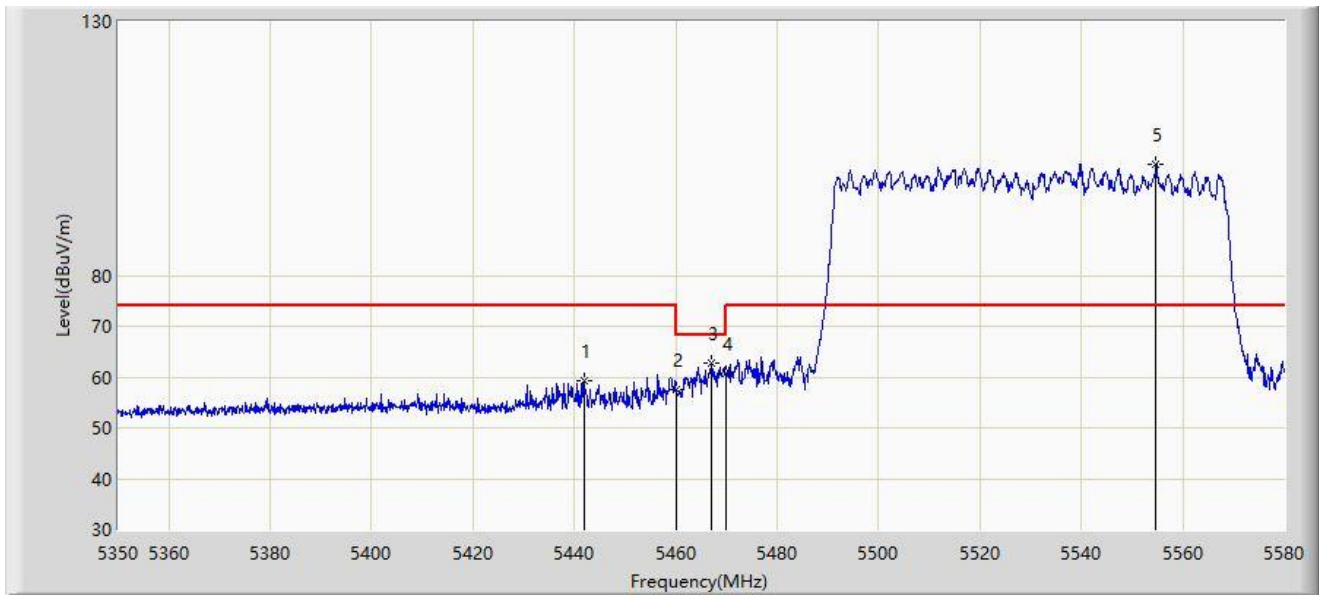
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5615.750	57.664	53.866	-10.536	68.200	3.798	PK
2		5650.000	56.316	52.156	-11.884	68.200	4.160	PK
3		5700.000	68.809	64.379	-36.391	105.200	4.430	PK
4		5720.000	78.753	74.103	-32.047	110.800	4.649	PK
5		5725.000	80.537	75.849	-41.663	122.200	4.688	PK
6		5760.300	110.924	106.336	N/A	N/A	4.588	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80_NSS=1 (MCS1) at 5530MHz	



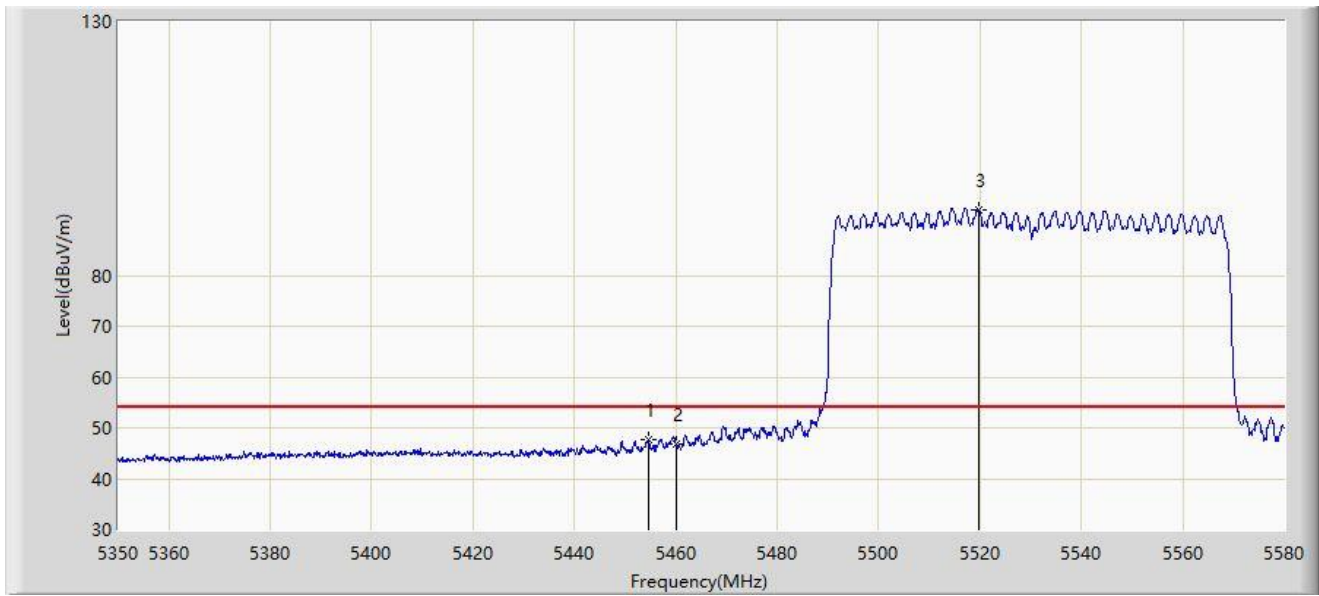
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5441.885	59.408	56.208	-14.592	74.000	3.200	PK
2		5460.000	57.456	54.237	-16.544	74.000	3.219	PK
3	*	5466.955	62.861	59.508	-5.339	68.200	3.353	PK
4		5470.000	60.858	57.446	-7.342	68.200	3.411	PK
5		5554.700	101.902	98.355	N/A	N/A	3.547	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Horizontal
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80_NSS=1 (MCS1) at 5530MHz	



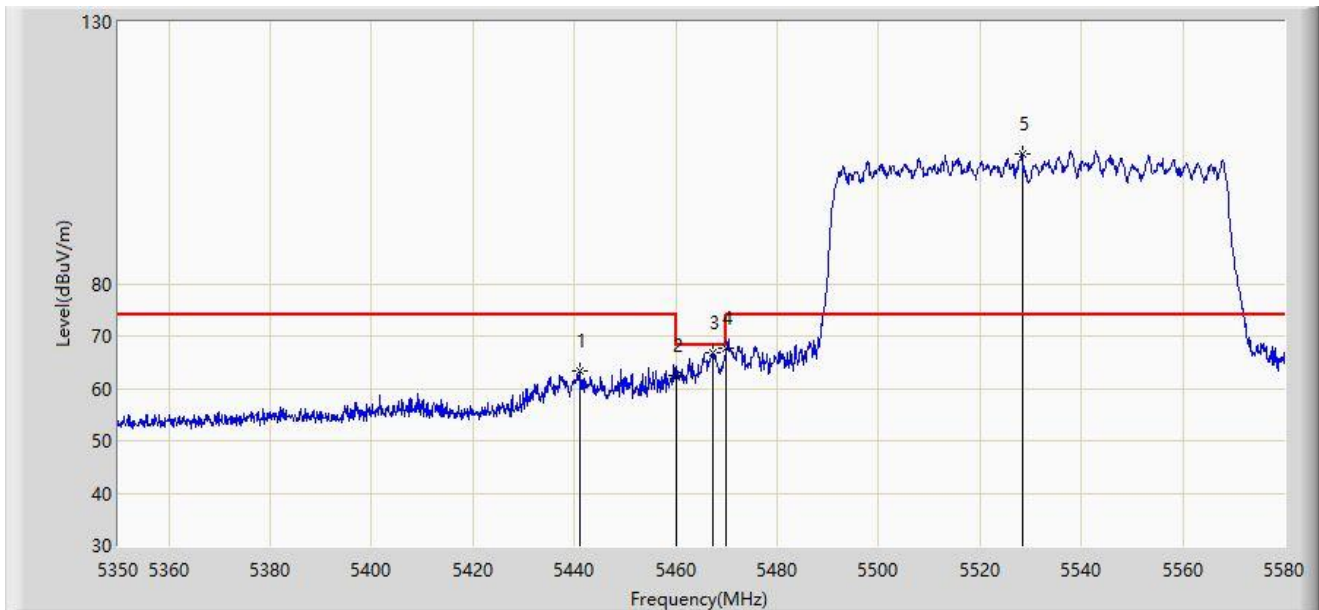
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5454.535	47.696	44.573	-6.304	54.000	3.123	AV
2		5460.000	46.931	43.712	-7.069	54.000	3.219	AV
3		5519.740	92.893	89.774	N/A	N/A	3.119	AV

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80_NSS=1 (MCS1) at 5530MHz	



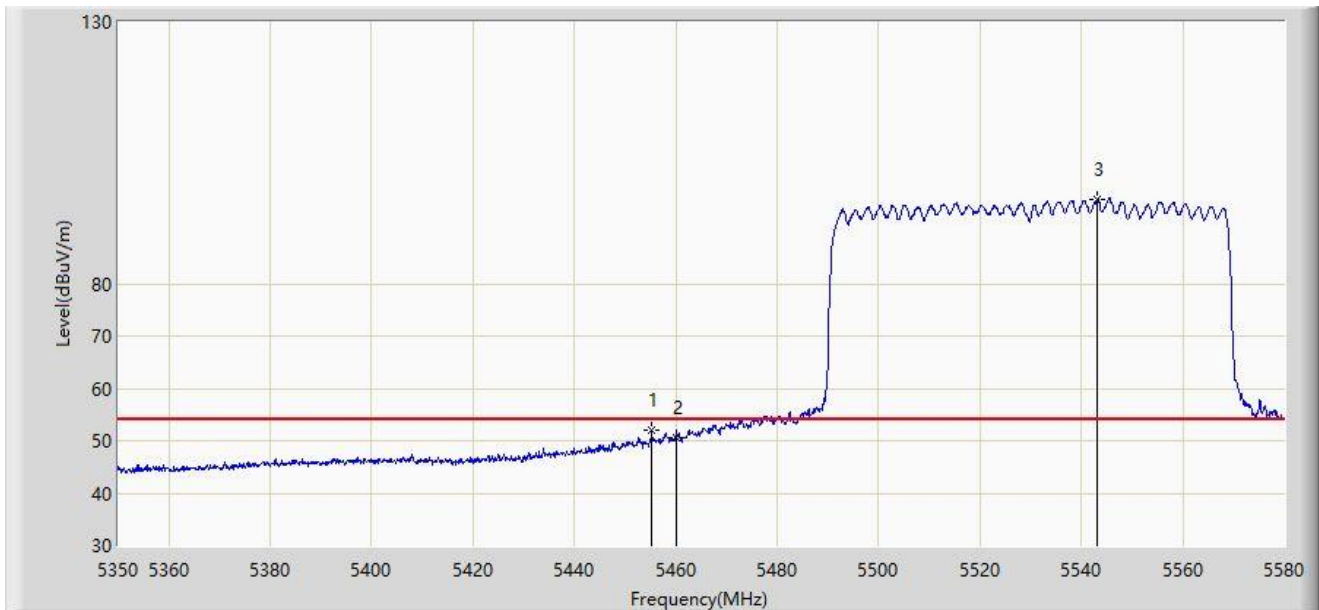
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5440.965	63.441	60.235	-10.559	74.000	3.207	PK
2		5460.000	62.492	59.273	-11.508	74.000	3.219	PK
3		5467.415	66.892	63.530	-1.308	68.200	3.362	PK
4	*	5470.000	67.699	64.287	-0.501	68.200	3.411	PK
5		5528.365	104.692	101.444	N/A	N/A	3.248	PK

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

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC2	Test Date: 2023-07-23
Limit: FCC_5G_RE(3m)	Engineer: Edith Yu
Probe: BBHA9120D_1457_1-18GHz	Polarity: Vertical
EUT: ACCESS POINT	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80_NSS=1 (MCS1) at 5530MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5455.225	52.101	48.968	-1.899	54.000	3.134	AV
2		5460.000	50.595	47.376	-3.405	54.000	3.219	AV
3		5543.200	96.095	92.669	N/A	N/A	3.426	AV

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

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Spot-check Error (From KDB 484596 D01 Referencing Test Data v02r01)

Worst Case Spot-check Error	Limit	Result
2.75%	25%	Pass

Note: Spot-check Error = |spot check data – reference data| / |reference data|

For example, |66.892 – 65.1| / 65.1 *100 = 2.75%

Appendix B – Test Setup Photograph

Refer to “2307RSU029-UT” file.

Appendix C – EUT Photograph

Refer to “2307RSU029-UE” file.

_____ The End _____