

## RF MEASUREMENT REPORT

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**FCC ID** : 2AXJ4AP9635V2  
**APPLICANT** : TP-Link Corporation Limited  
**Application Type** : Certification  
**Product** : AX1800 Ceiling Mount Wi-Fi 6 Access Point  
**Model No.** : AP9635  
**Brand Name** : tp-link  
**FCC Classification** : Digital Transmission System (DTS)  
**FCC Rule Part(s)** : Part 15.247  
**Test Procedure(s)** : ANSI C63.10-2013  
**Received Date** : July 20, 2023  
**Test Date** : July 24, 2023~ August 18, 2023

**Tested By** : Owen Tsai  
( Owen Tsai )  
**Reviewed By** : Paddy Chen  
( Paddy Chen )  
**Approved By** : Chenz Ker  
( Chenz Ker )



The test results only relate to the tested sample.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10. 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 (Taiwan) Co., Ltd.

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## Revision History

Report No.	Version	Description	Issue Date	Note
2307TW0115-U2	1.0	Original Report	2023-09-25	Valid

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## General Information

<b>Applicant</b>	TP-Link Corporation Limited
<b>Applicant Address</b>	Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
<b>Manufacturer</b>	TP-Link Corporation Limited
<b>Manufacturer Address</b>	Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
<b>Test Site</b>	MRT Technology (Taiwan) Co., Ltd
<b>Test Site Address</b>	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
<b>MRT FCC Registration No.</b>	291082
<b>FCC Rule Part(s)</b>	Part 15.247

## Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

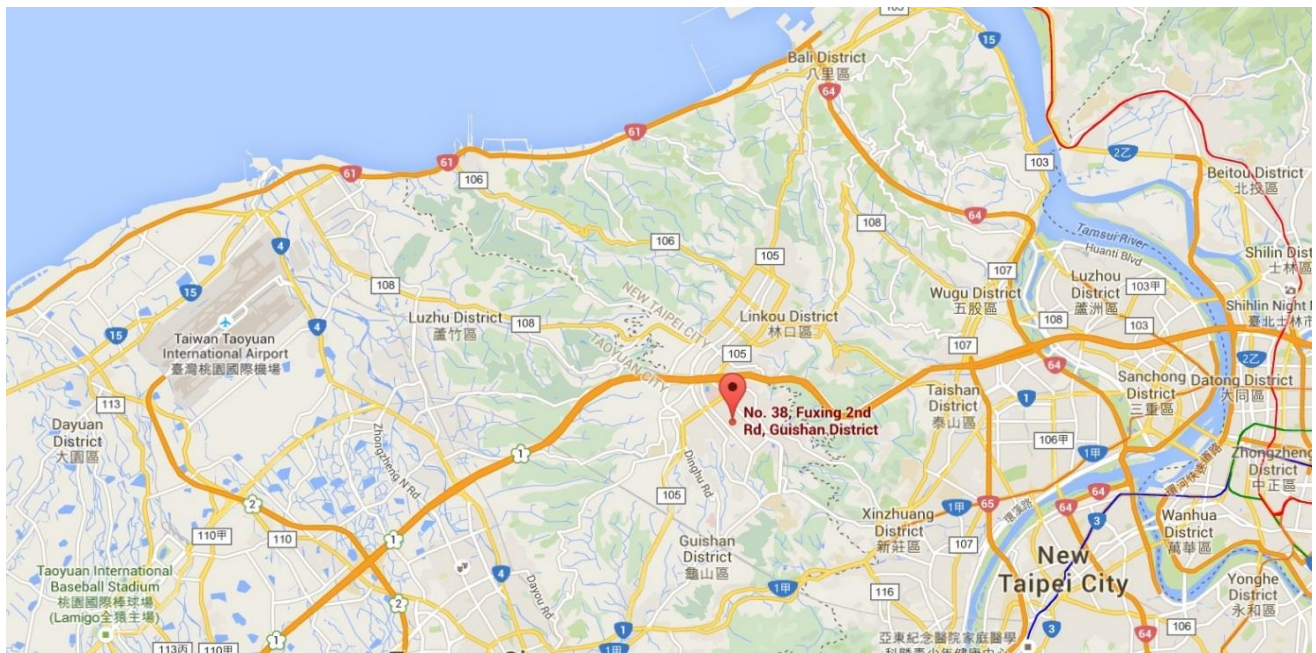
# 1. INTRODUCTION

## 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

## 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

Product Name	AX1800 Ceiling Mount Wi-Fi 6 Access Point
Model No.	AP9635
Brand Name	tp-link
Specification	WLAN: 802.11a/b/g/n/ac/ax WPAN: Bluetooth Single Mode: V5.0
EUT Identification No.:	#1-1 (Conducted) #1-2 (Radiated)
Note: The adapter (Brand: tp-link, model No.: T120150-2B1) is provided by applicant for test only, it will not be sold with product.	

### 2.2. Product Specification Subjective to this Standard

Operating Frequency	2402~2480MHz
Type of modulation	GFSK
Data Rate	1Mbps, Coded S=2, Coded S=8
Antenna Type	IFA Antenna
Antenna Gain	3.0dBi

### 2.3. Test Mode

Test Mode	Mode 1: Transmit - LE (1Mbps) Mode 2: Transmit - LE (Coded S=2) Mode 3: Transmit - LE (Coded S=8)
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Note: Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.

## 2.4. Operation Frequency / Channel List

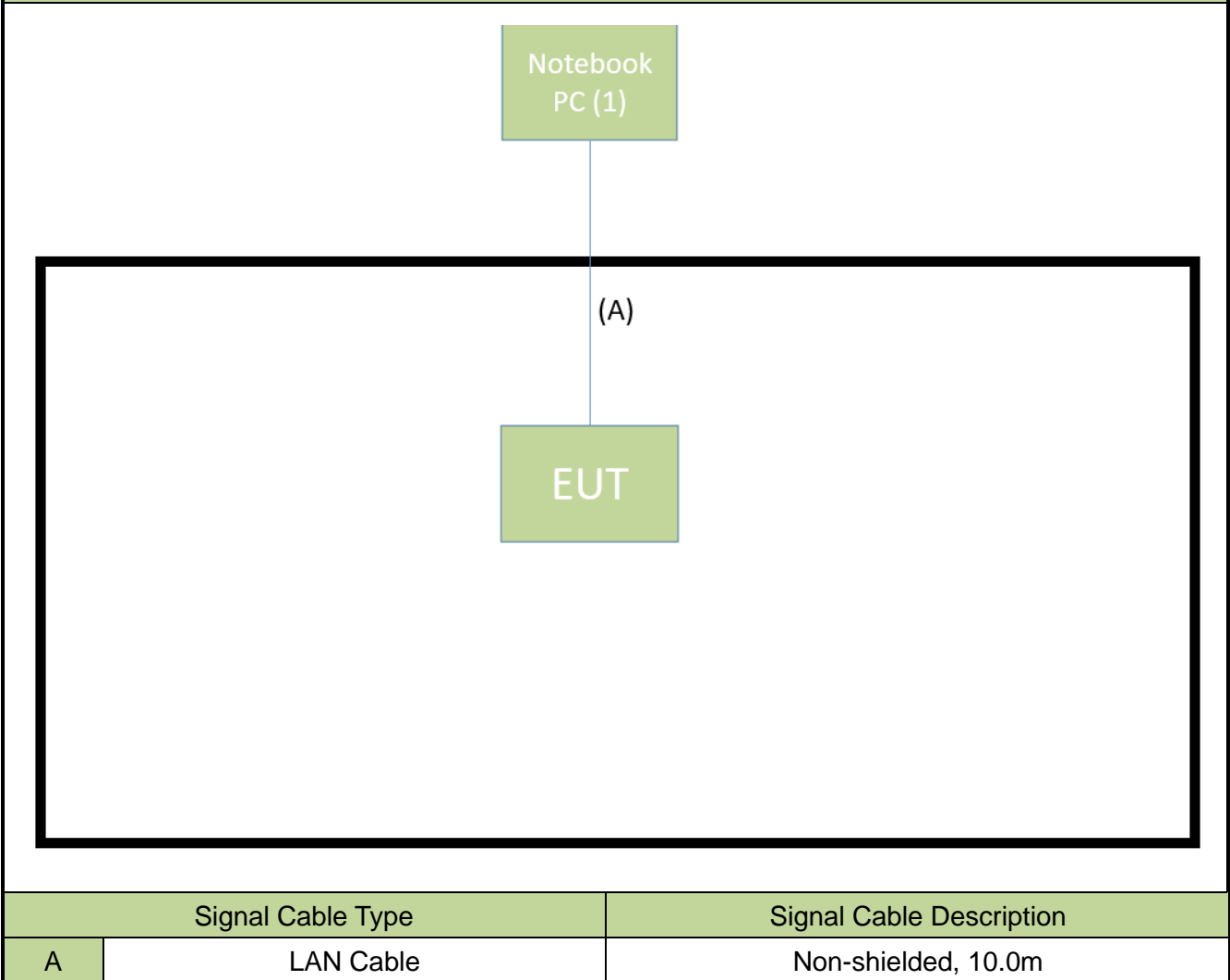
Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442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



## 2.5. Test Configuration

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

Connection Diagram



## 2.6. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	20Y7-006KTW	N/A	Non-shielded, 0.8m

## 2.7. Test Software

The test utility software used during testing was “SecureCRT V7.1.1”.

## 2.8. Applied Standards

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

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

## 2.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

## 2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

### **3. DESCRIPTION of TEST**

#### **3.1. Evaluation Procedure**

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance was used in the measurement.

#### **3.2. AC Line Conducted Emissions**

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst-case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

## 4. 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.

## 5. TEST EQUIPMENT CALIBRATION DATE

### Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2024/4/17
Cable	Rosnol	N1C50-RG400-B 1C50-500CM	MRTTWE00013	1 year	2024/6/15
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2024/3/8

### Radiated Emissions – AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2024/5/22
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2023/12/21
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2024/5/17
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2024/5/17
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2024/3/20
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2024/3/27
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2024/3/8
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2024/6/29
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2024/6/26
Cable	HUBERSUHNER	EMC105-NM-NM -3000	MRTTWE00035	1 year	2024/6/26
Temperature/Humidity Meter	TFA	35.1078.10.IT	MRTTWA00032	1 year	2024/6/4

### Conducted Test Equipment – SR5

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2023/10/5
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2024/7/19
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2024/3/16

### Test Software

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V3	EMI Test Software

## 6. 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  $k = 2$ .

<b>Conducted Emission- Power Line</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 0.15MHz~30MHz: $\pm 2.53\text{dB}$
<b>Radiated Spurious Emission</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 9kHz~30MHz: $\pm 3.92\text{dB}$ 30MHz~1GHz: $\pm 4.25\text{dB}$ 1GHz~18GHz: $\pm 4.40\text{dB}$ 18GHz~40GHz: $\pm 4.45\text{dB}$
<b>Frequency Error</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 78.4\text{Hz}$
<b>Conducted Power</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 0.84\text{dB}$
<b>Conducted Spurious Emission</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 2.65\text{ dB}$
<b>Occupied Bandwidth</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 3.3\%$
<b>Temp. / Humidity</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 0.82^\circ\text{C}/ \pm 3\%$
<b>DC Voltage</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): $\pm 0.3\%$

## 7. TEST RESULT

### 7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	$\leq 30\text{dBm}$		Pass	Section 7.3
15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$		Pass	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	$\geq 30\text{dBc}$ (Average)		Pass	Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

#### Notes:

- 1) Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) 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.



## 7.2. 6dB Bandwidth Measurement

### 7.2.1. Test Limit

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

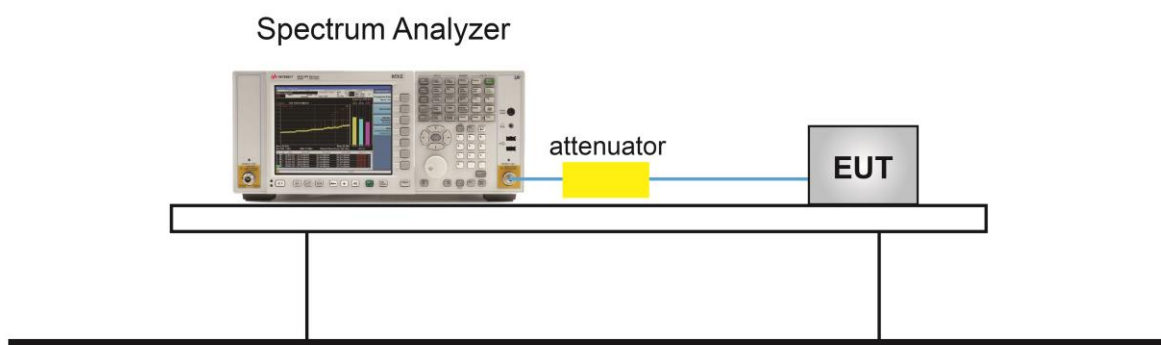
### 7.2.2. Test Procedure used

ANSI C63.10 - 2013 Section 11.8

### 7.2.3. Test Setting

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

### 7.2.4. Test Setup



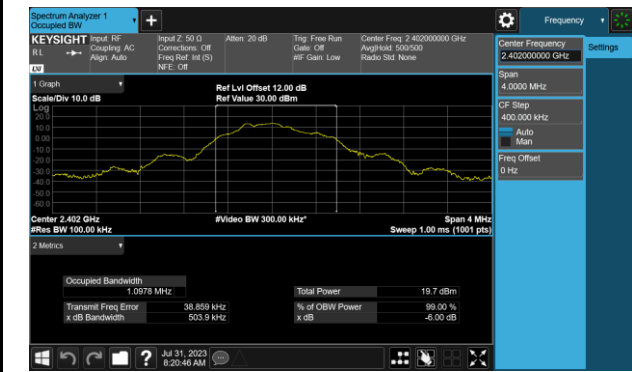
### 7.2.5. Test Result

Product	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Temperature	25°C
Test Engineer	Xuan Yu	Relative Humidity	54%
Test Site	SR6	Test Date	2023/7/31

Test Mode	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
LE 1Mbps	00	2402	0.5039	≥ 0.5	Pass
	19	2440	0.5042	≥ 0.5	Pass
	39	2480	0.5059	≥ 0.5	Pass
LE Coded S=2	00	2402	0.6493	≥ 0.5	Pass
	19	2440	0.6633	≥ 0.5	Pass
	39	2480	0.6442	≥ 0.5	Pass
LE Coded S=8	00	2402	0.6057	≥ 0.5	Pass
	19	2440	0.5994	≥ 0.5	Pass
	39	2480	0.5969	≥ 0.5	Pass

LE 1Mbps

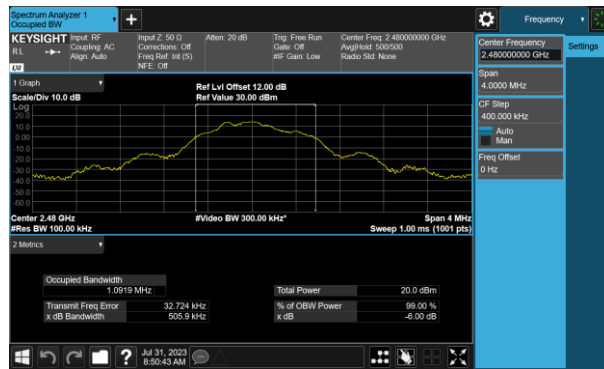
LE CH00 (2402MHz)



LE CH19 (2440MHz)



LE CH39 (2480MHz)



LE Coded S=2

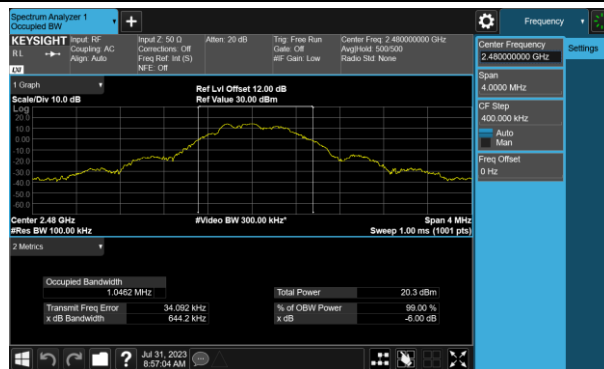
LE CH00 (2402MHz)



LE CH19 (2440MHz)



LE CH39 (2480MHz)

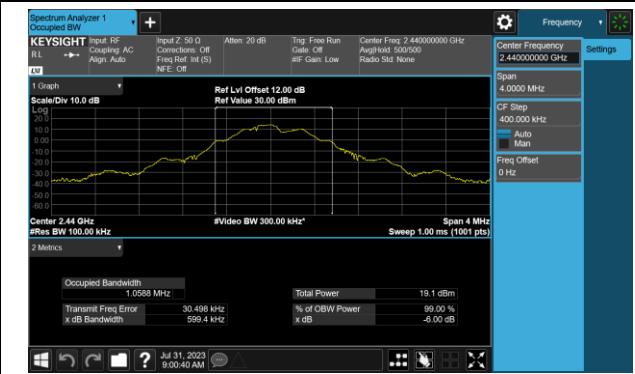


LE Coded S=8

LE CH00 (2402MHz)



LE CH19 (2440MHz)



LE CH39 (2480MHz)



## 7.3. Output Power Measurement

### 7.3.1. Test Limit

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

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 7.3.2. Test Procedure Used

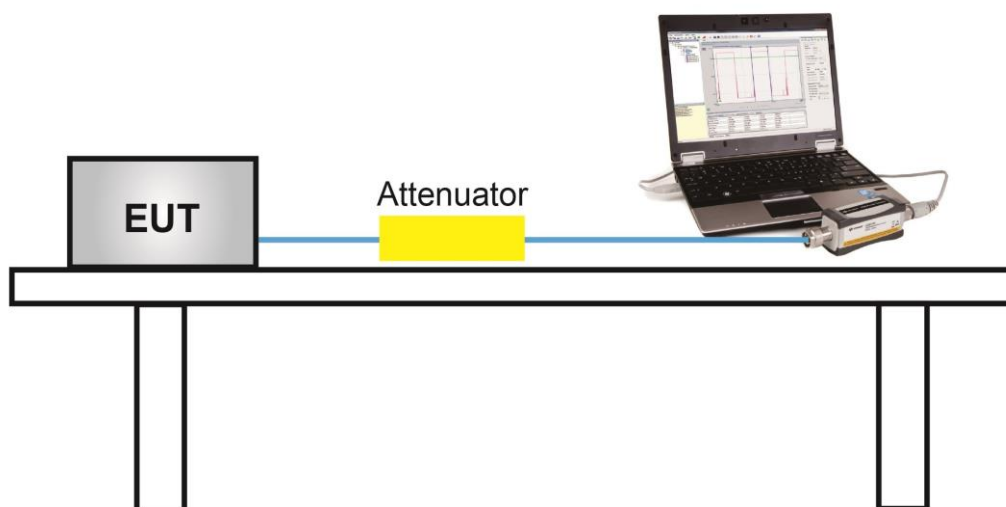
ANSI C63.10 - 2013 Section 11.9.2.3.2

### 7.3.3. Test Setting

#### Average Power Measurement

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

### 7.3.4. Test Setup



### 7.3.5. Test Result

Product	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Temperature	25°C
Test Engineer	Xuan Yu	Relative Humidity	54%
Test Site	SR6	Test Date	2023/7/31

Test Mode	Channel No.	Frequency (MHz)	Average Power (dBm)	Power Limit (dBm)
LE 1Mbps	00	2402	14.26	< 30
	19	2440	14.40	< 30
	39	2480	14.35	< 30
LE Coded S=2	00	2402	14.24	< 30
	19	2440	14.36	< 30
	39	2480	14.32	< 30
LE Coded S=8	00	2402	14.22	< 30
	19	2440	14.34	< 30
	39	2480	14.33	< 30

Note 1: Average power = Reading value on power meter + cable loss.

Note 2: Antenna Gain: 3.00dBi.

## **7.4. Power Spectral Density Measurement**

### **7.4.1. Test Limit**

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

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

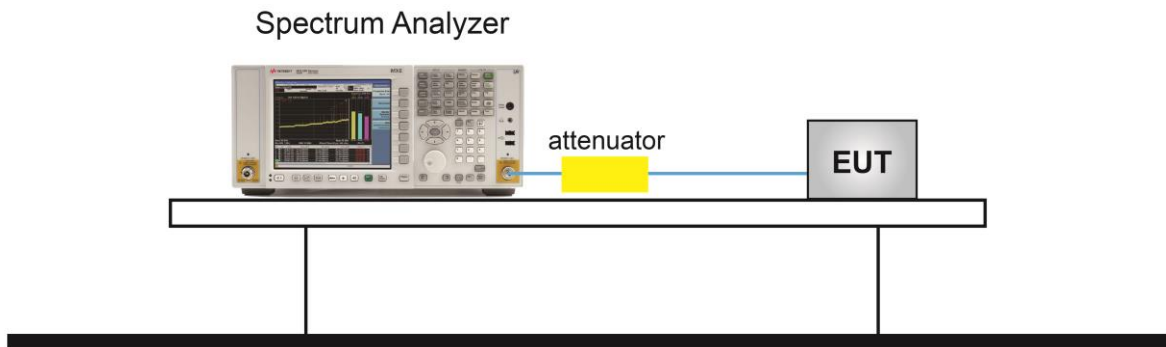
### **7.4.2. Test Procedure Used**

ANSI C63.10 - 2013 Section 11.10.5

### **7.4.3. Test Setting**

1. Measure the duty cycle (x) of the transmitter output signal.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
8. Sweep time = auto couple.
9. Don't use sweep triggering. Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add  $10 \log (1/x)$ , where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

#### 7.4.4. Test Setup





### 7.4.5. Test Result

Product	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Temperature	25°C
Test Engineer	Xuan Yu	Relative Humidity	54%
Test Site	SR6	Test Date	2023/7/31

Test Mode	Channel No.	Frequency (MHz)	PSD (dBm/10kHz)	Duty Cycle (%)	Total Average PSD (dBm/10kHz)	Limit (dBm/3kHz)	Result
LE 1Mbps	00	2402	-4.474	18.40%	2.878	≤ 8	Pass
	19	2440	-4.834	18.40%	2.518	≤ 8	Pass
	39	2480	-6.406	18.40%	0.946	≤ 8	Pass
LE Coded S=2	00	2402	3.472	40.08%	7.443	≤ 8	Pass
	19	2440	3.795	40.08%	7.766	≤ 8	Pass
	39	2480	2.891	40.08%	6.862	≤ 8	Pass
LE Coded S=8	00	2402	4.572	60.87%	6.728	≤ 8	Pass
	19	2440	5.077	60.87%	7.233	≤ 8	Pass
	39	2480	5.518	60.87%	7.674	≤ 8	Pass

Note: Total AVGPSD (dBm/10kHz) = AVGPSD (dBm/10kHz) + 10\*log (1/Duty Cycle).

### LE 1Mbps

#### LE CH00 (2402MHz)



#### LE CH19 (2440MHz)



#### LE CH39 (2480MHz)



### LE Coded S=2

#### LE CH00 (2402MHz)



#### LE CH19 (2440MHz)



#### LE CH39 (2480MHz)



LE Coded S=8

LE CH00 (2402MHz)



LE CH19 (2440MHz)



LE CH39 (2480MHz)



## **7.5. Out-of-Band Spurious Emissions Emissions Measurement**

### **7.5.1. Test Limit**

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

### **7.5.2. Test Procedure Used**

ANSI C63.10 - 2013 Section 11.11

### **7.5.3. Test Setting**

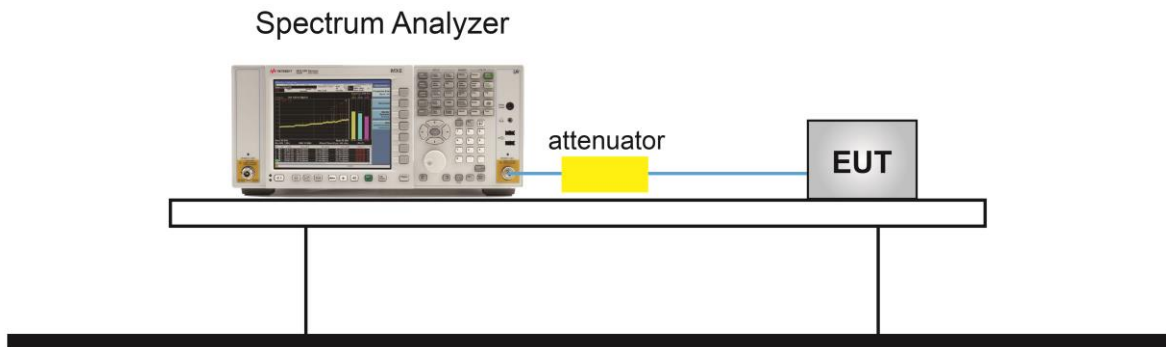
#### **Reference level measurement**

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

#### **Emission level measurement**

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

### 7.5.4. Test Setup



### 7.5.5. Test Result

Product	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Temperature	25°C
Test Engineer	Xuan Yu	Relative Humidity	54%
Test Site	SR6	Test Date	2023/7/31

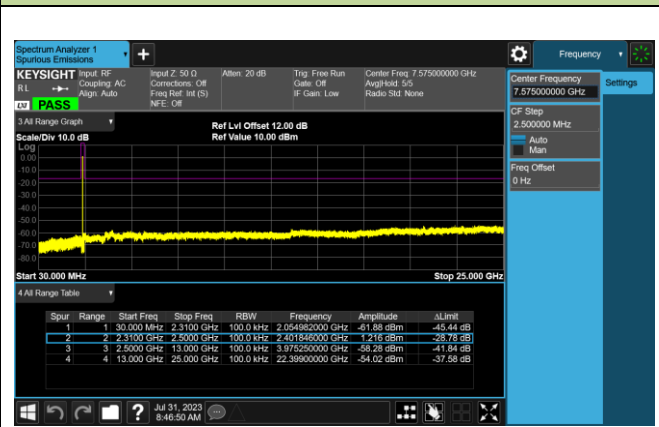
Test Mode	Channel No.	Frequency (MHz)	Limit	Result
LE 1Mbps	00	2402	30dBc	Pass
	19	2440	30dBc	Pass
	39	2480	30dBc	Pass
LE Coded S=2	00	2402	30dBc	Pass
	19	2440	30dBc	Pass
	39	2480	30dBc	Pass
LE Coded S=8	00	2402	30dBc	Pass
	19	2440	30dBc	Pass
	39	2480	30dBc	Pass

LE 1Mbps

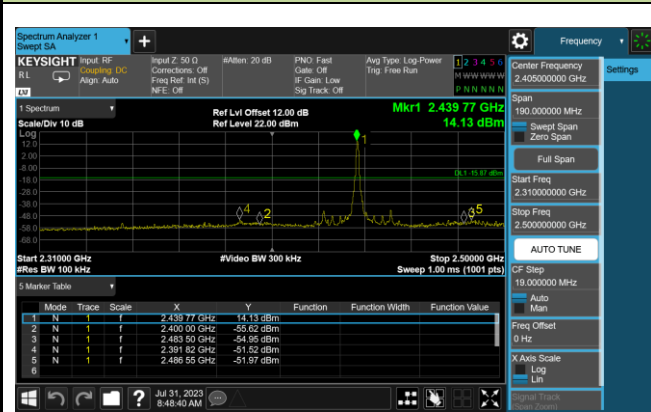
CH00 (2402MHz) LE(1Mbps)



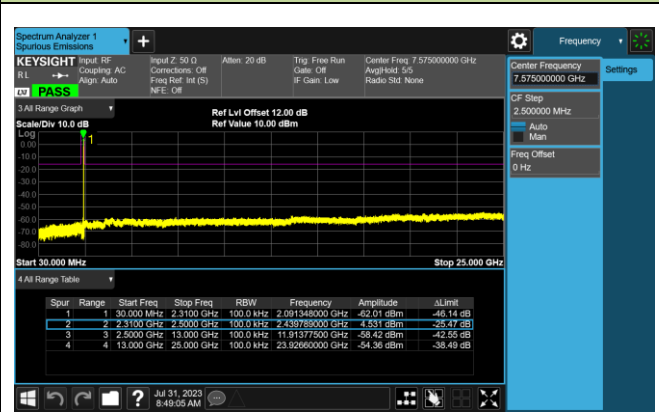
CH00 (2402MHz) LE(1Mbps)



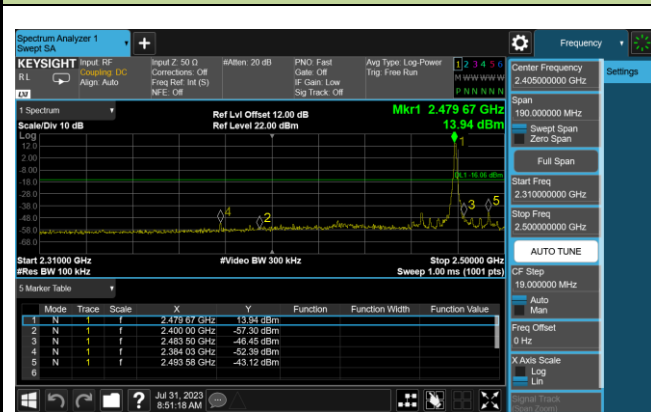
CH19 (2440MHz) LE(1Mbps)



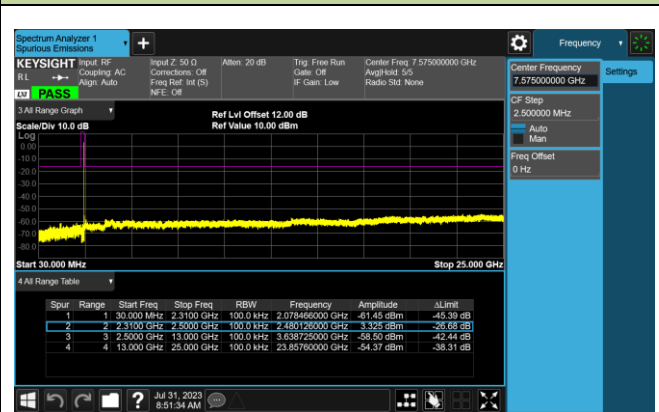
CH19 (2440MHz) LE(1Mbps)



CH39 (2480MHz) LE(1Mbps)

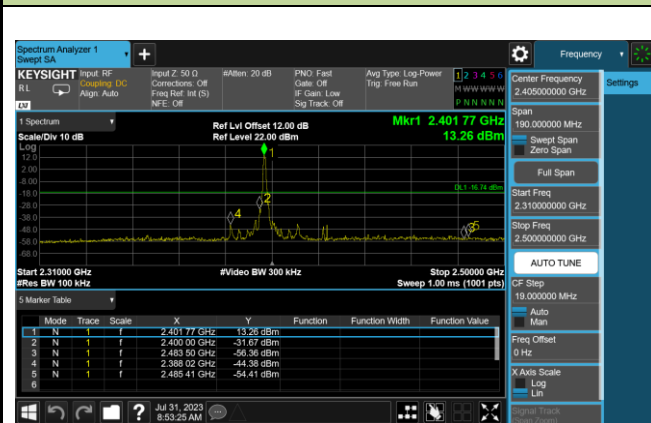


CH39 (2480MHz) LE(1Mbps)

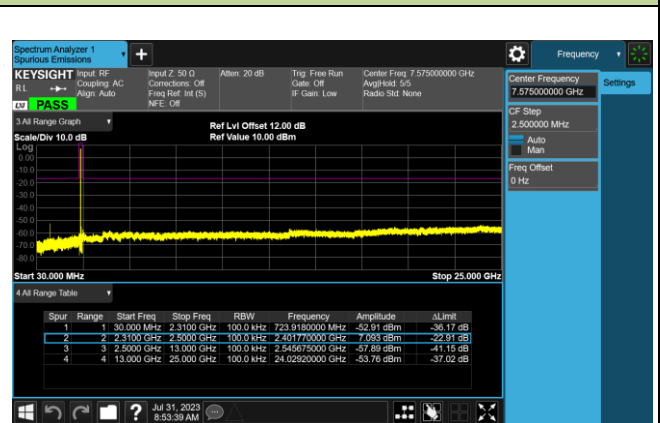


LE Coded S=2

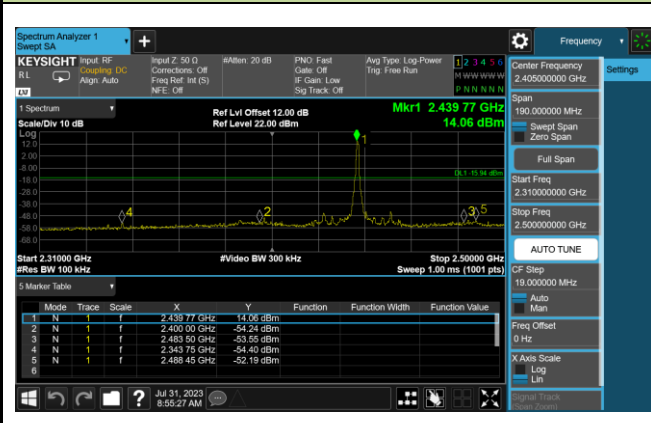
CH00 (2402MHz) LE(1Mbps)



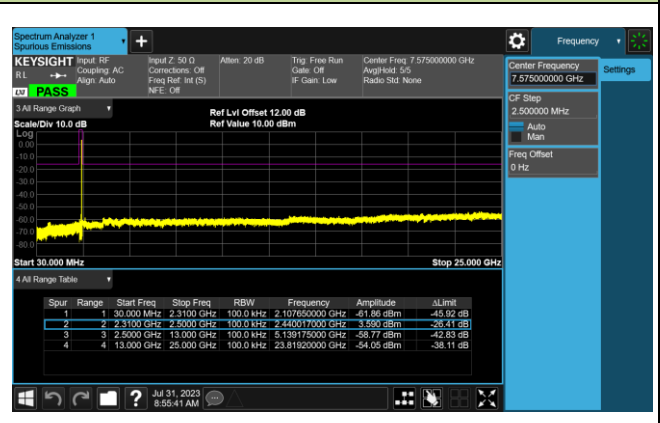
CH00 (2402MHz) LE(1Mbps)



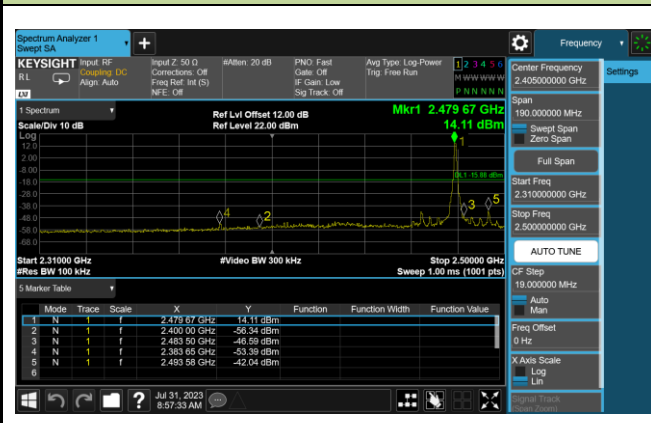
CH19 (2440MHz) LE(1Mbps)



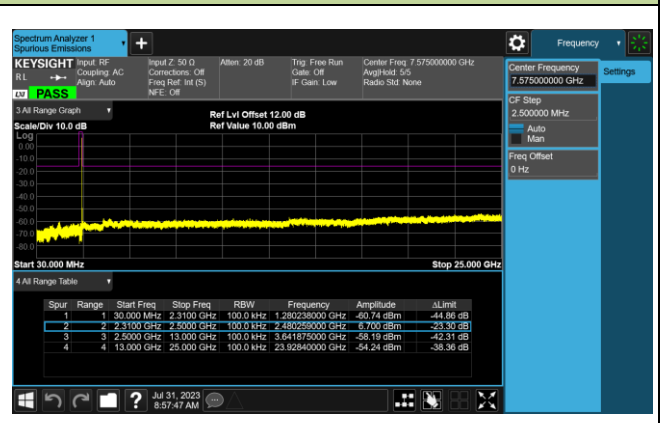
CH19 (2440MHz) LE(1Mbps)



CH39 (2480MHz) LE(1Mbps)



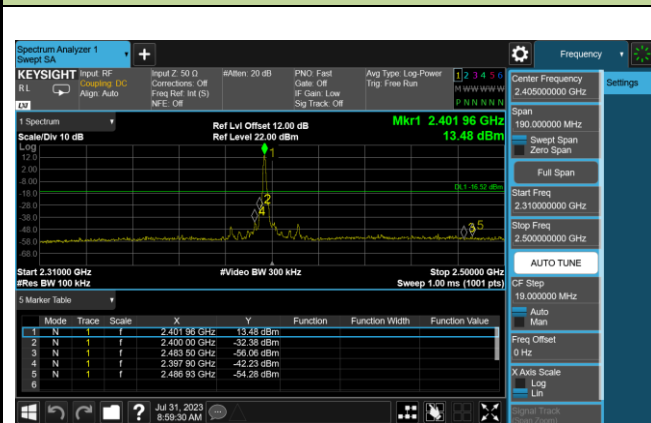
CH39 (2480MHz) LE(1Mbps)



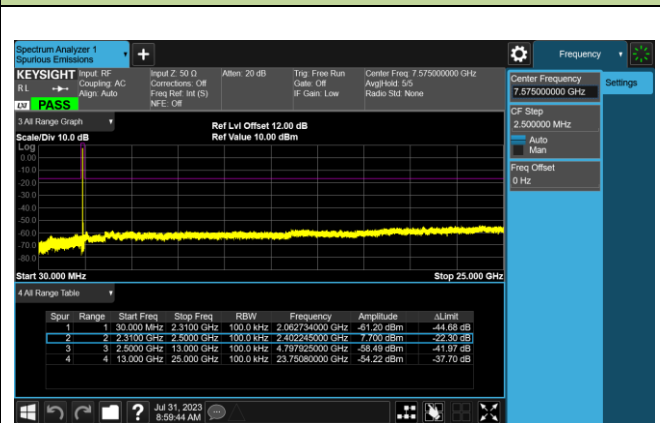


LE Coded S=8

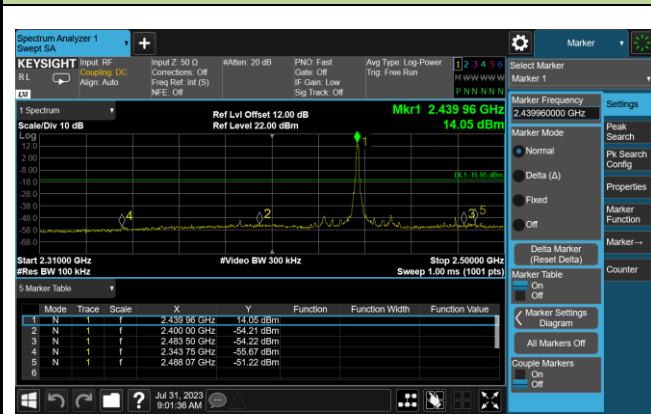
CH00 (2402MHz) LE(1Mbps)



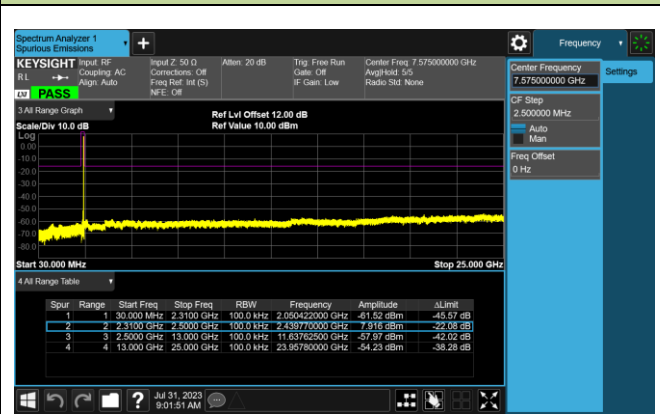
CH00 (2402MHz) LE(1Mbps)



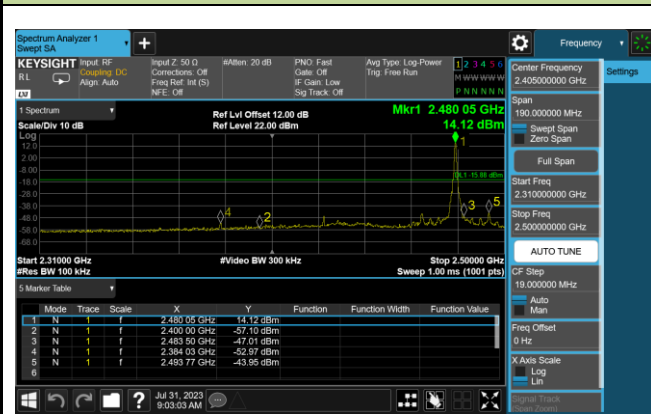
CH19 (2440MHz) LE(1Mbps)



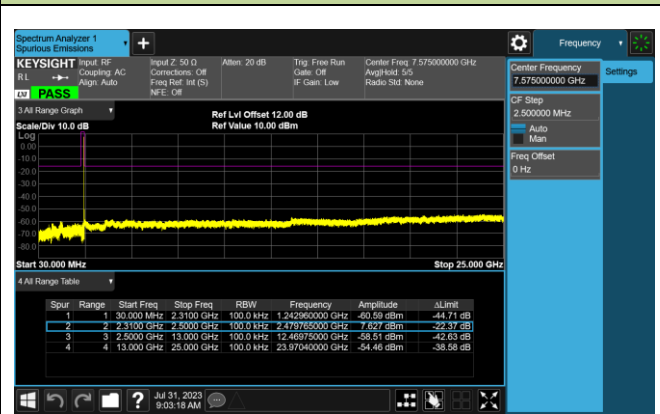
CH19 (2440MHz) LE(1Mbps)



CH39 (2480MHz) LE(1Mbps)



CH39 (2480MHz) LE(1Mbps)



## 7.6. Radiated Spurious Emission Measurement

### 7.6.1. Test 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 [Uv/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

### 7.6.2. Test Procedure Used

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

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

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

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

### 7.6.3. Test Setting

**Table 1 - RBW as a function of frequency**

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

**Quasi-Peak Measurements below 1GHz**

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

**Peak Measurements above 1GHz**

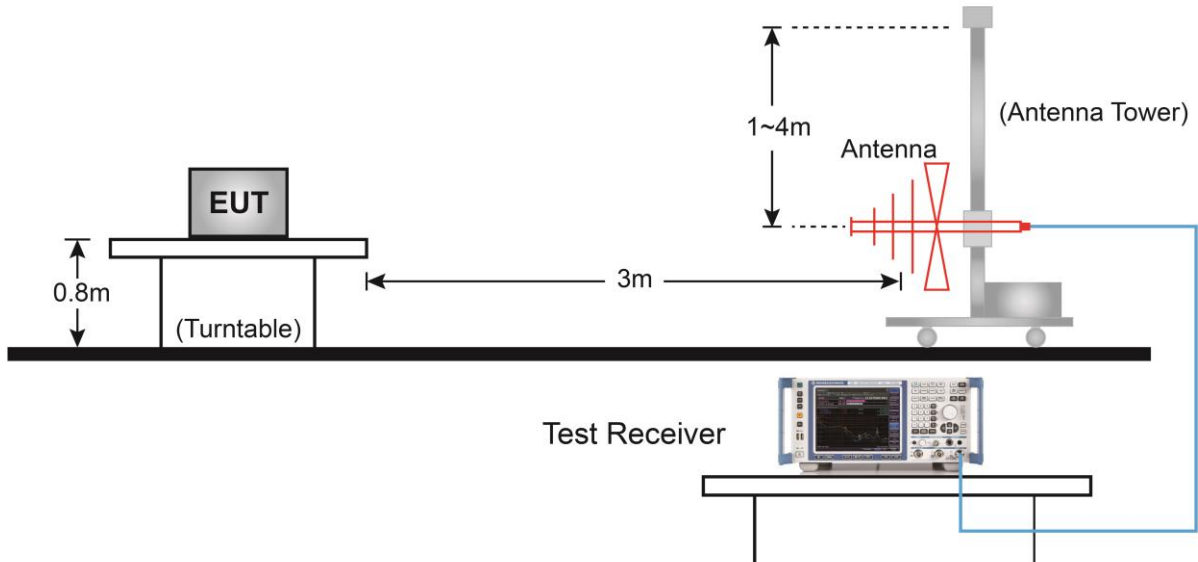
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

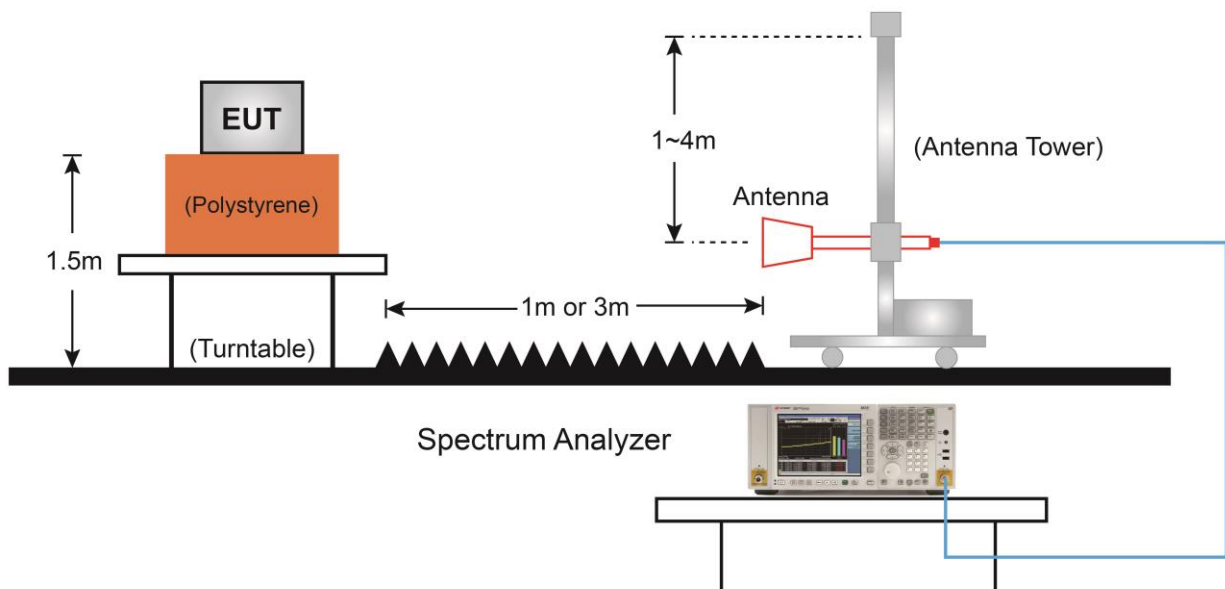
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.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

### 7.6.4. Test Setup

#### Below 1GHz Test Setup:

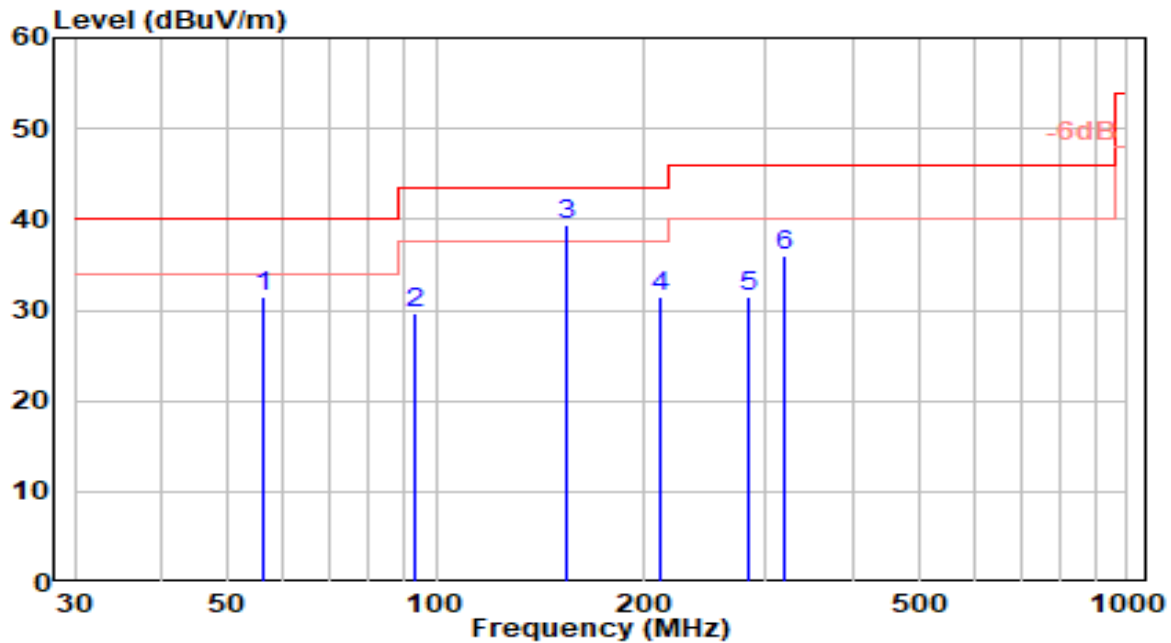


#### Above 1GHz Test Setup:



### 7.6.5. Test Result

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-28
Factor	VULB 9162	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 19	Test Voltage	AC 120V/60Hz

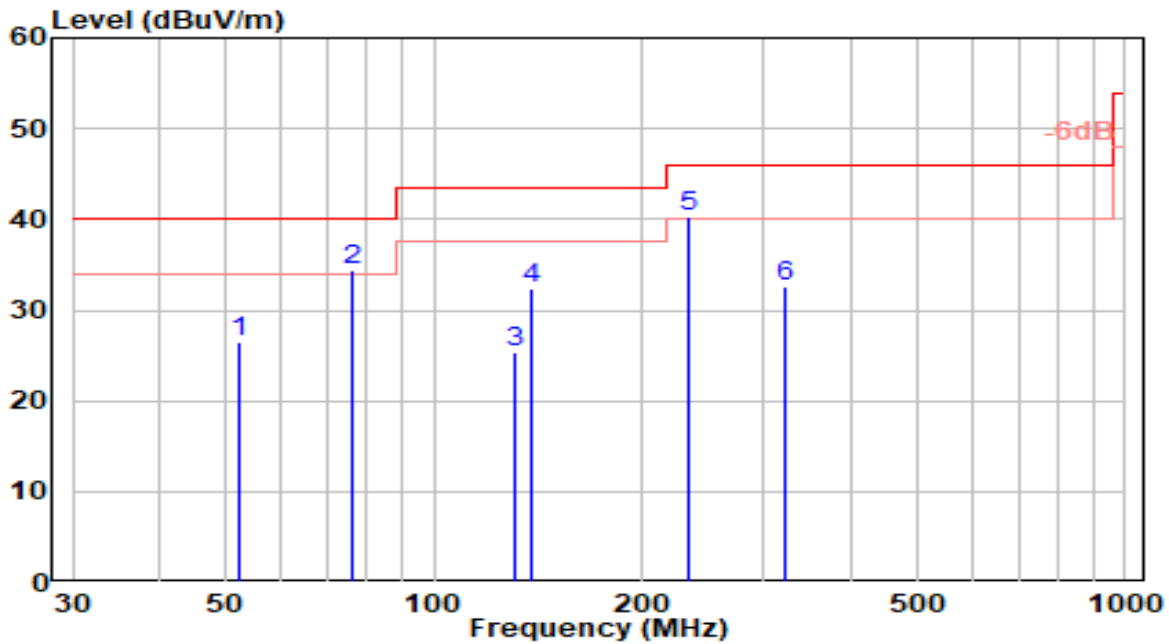


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	56.300	11.44	20.12	31.56	-8.44	40.00	100	42	QP
2	92.930	12.13	17.59	29.72	-13.78	43.50	100	301	QP
3	* 153.870	23.85	15.48	39.33	-4.17	43.50	200	106	QP
4	210.390	13.37	18.06	31.42	-12.08	43.50	100	302	QP
5	282.740	11.05	20.50	31.54	-14.46	46.00	150	60	QP
6	318.020	14.36	21.54	35.90	-10.10	46.00	100	58	QP

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-28
Factor	VULB 9162	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 19	Test Voltage	AC 120V/60Hz

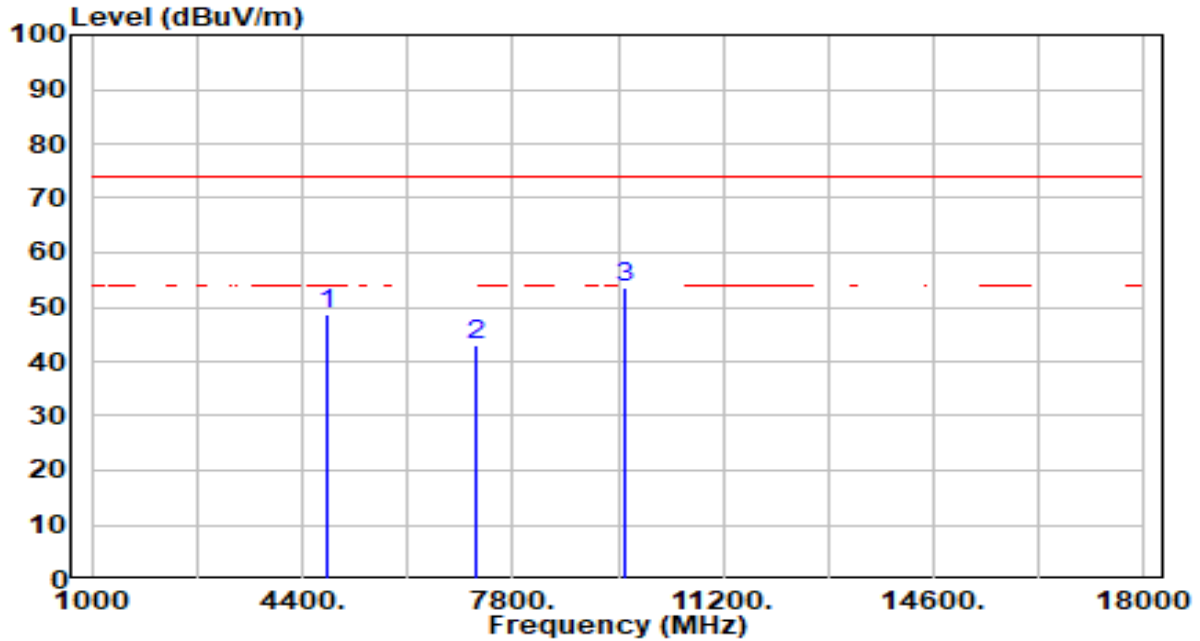


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	52.420	5.75	20.72	26.48	-13.52	40.00	200	70	QP
2	* 76.440	19.87	14.61	34.48	-5.52	40.00	150	284	QP
3	130.590	9.61	15.76	25.37	-18.13	43.50	100	266	QP
4	138.610	17.26	15.06	32.32	-11.18	43.50	200	47	QP
5	233.270	20.79	19.45	40.25	-5.75	46.00	100	23	QP
6	321.900	11.00	21.69	32.69	-13.31	46.00	200	93	QP

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

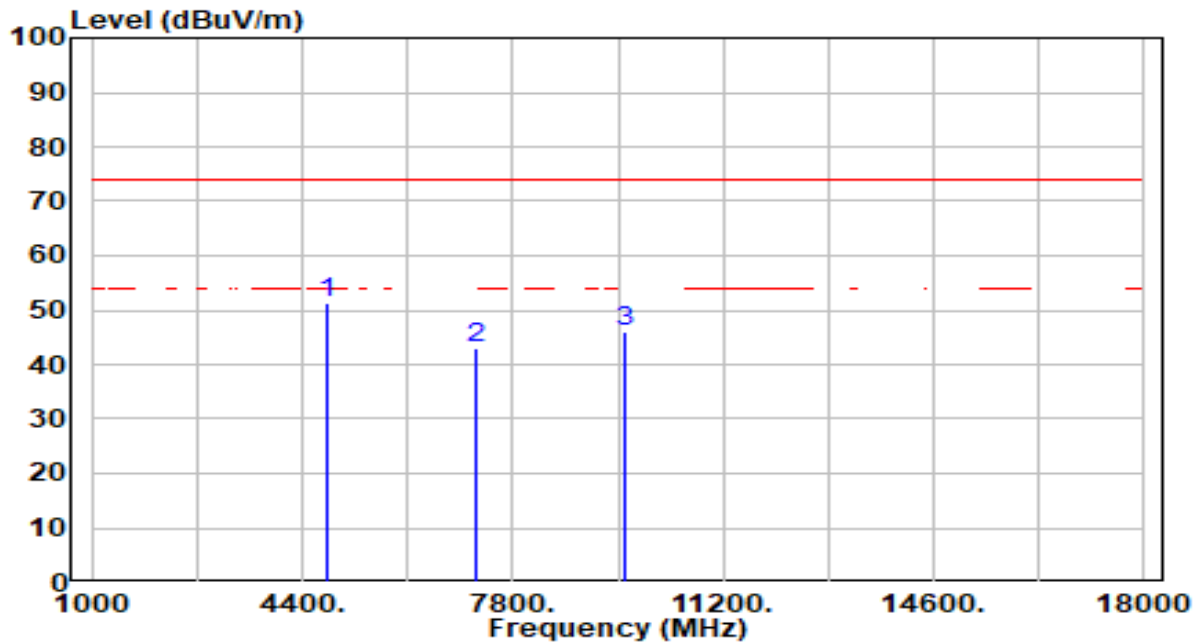


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	49.79	-1.15	48.64	-25.36	74.00	200	249	Peak
2	7206.000	38.96	3.90	42.85	-31.15	74.00	200	241	Peak
3	* 9608.000	50.55	3.20	53.76	-20.24	74.00	200	193	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz



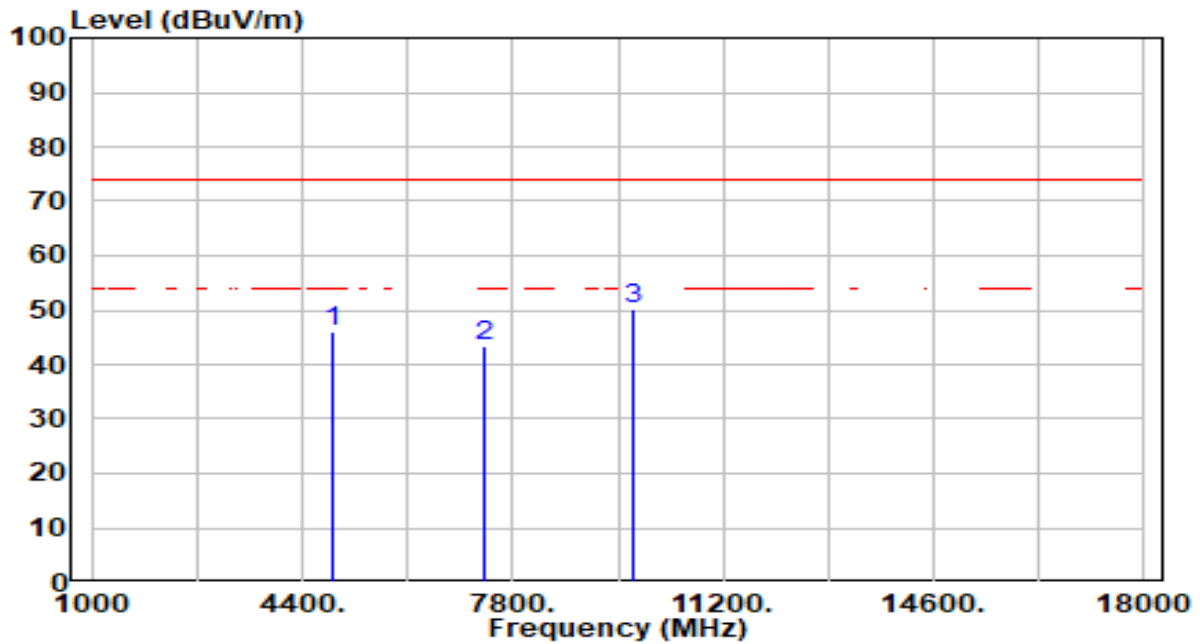
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4804.000	52.66	-1.15	51.51	-22.49	74.00	200	227	Peak
2	7206.000	39.22	3.90	43.11	-30.89	74.00	200	171	Peak
3	9608.000	42.85	3.20	46.05	-27.95	74.00	200	140	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 19 ANT 0	Test Voltage	AC 120V/60Hz

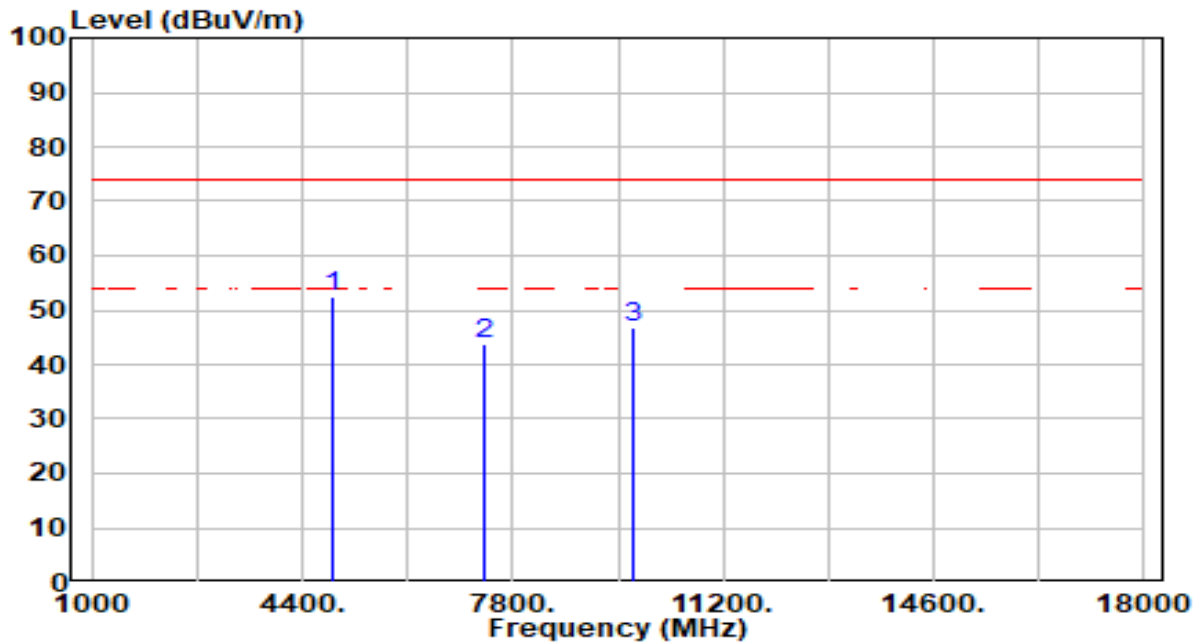


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4880.000	46.98	-0.95	46.03	-27.97	74.00	200	108	Peak
2	7320.000	39.39	3.92	43.31	-30.69	74.00	100	360	Peak
3	* 9760.000	46.87	3.25	50.12	-23.88	74.00	200	219	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 19 ANT 0	Test Voltage	AC 120V/60Hz

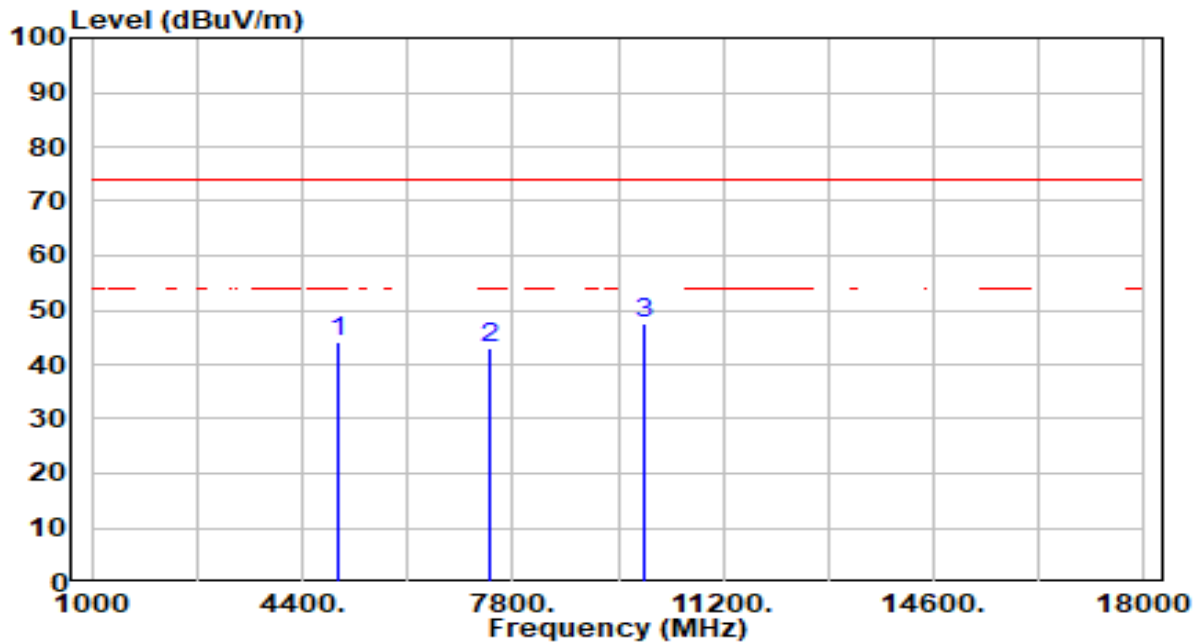


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4880.000	53.59	-0.95	52.64	-21.36	74.00	200	177	Peak
2	7320.000	39.81	3.92	43.73	-30.27	74.00	246	0	Peak
3	9760.000	43.68	3.25	46.92	-27.08	74.00	100	130	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

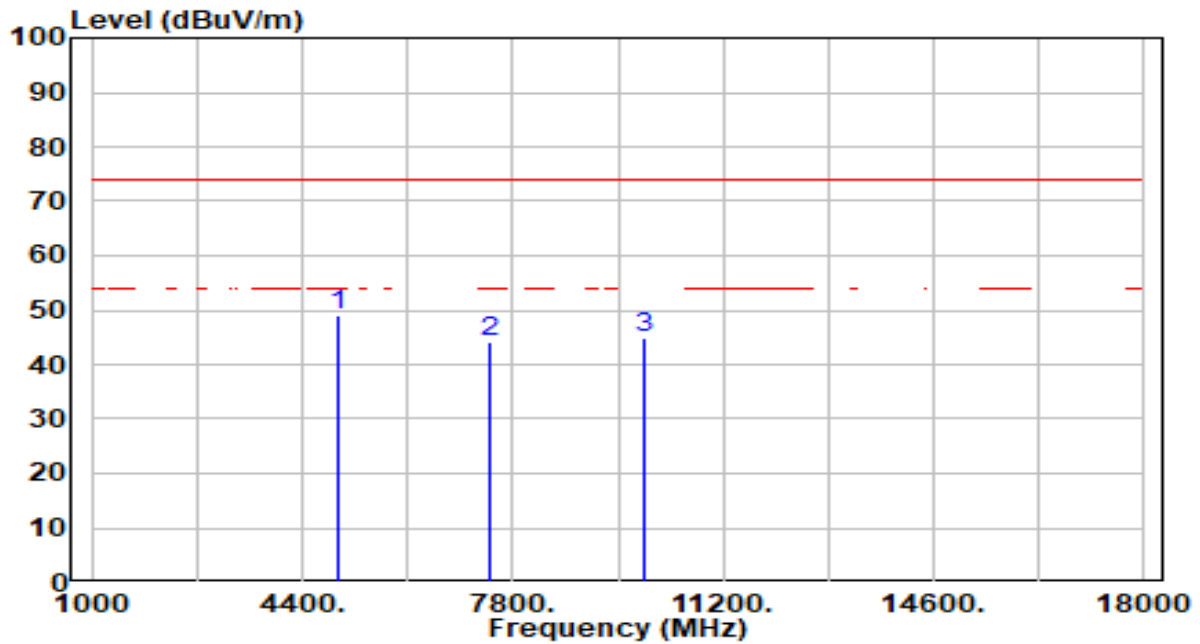


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	45.07	-0.74	44.33	-29.67	74.00	200	238	Peak
2	7440.000	39.24	3.91	43.14	-30.86	74.00	200	134	Peak
3	* 9920.000	44.21	3.29	47.49	-26.51	74.00	200	206	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

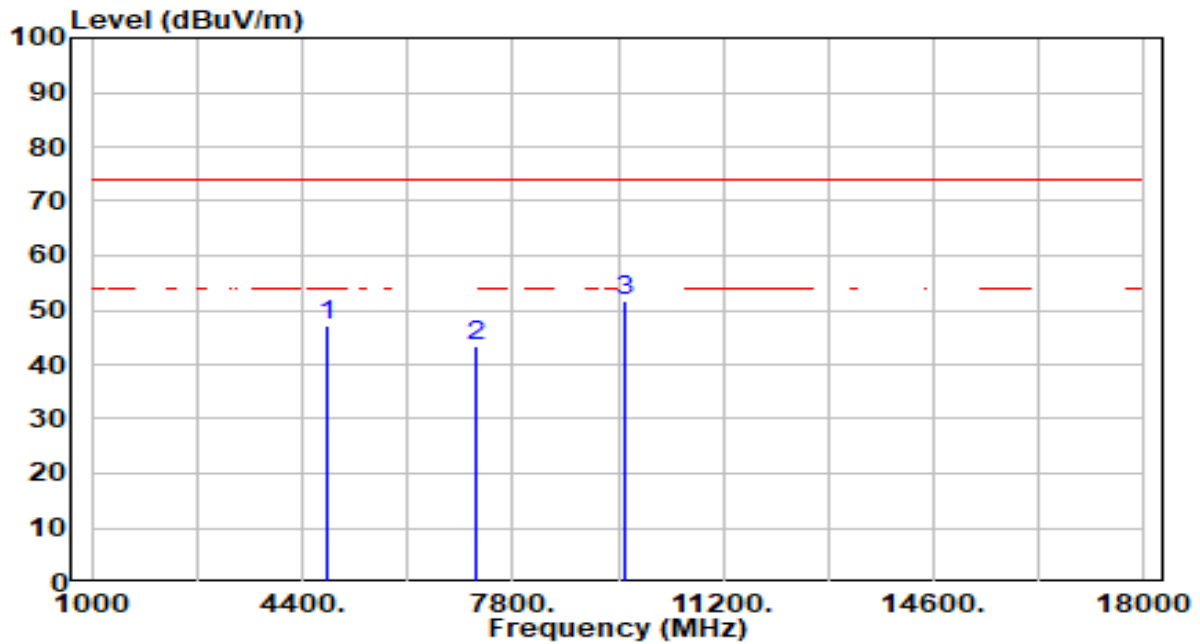


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4960.000	49.89	-0.74	49.15	-24.85	74.00	200	139	Peak
2	7440.000	40.09	3.91	44.00	-30.00	74.00	200	79	Peak
3	9920.000	41.48	3.29	44.77	-29.23	74.00	200	274	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

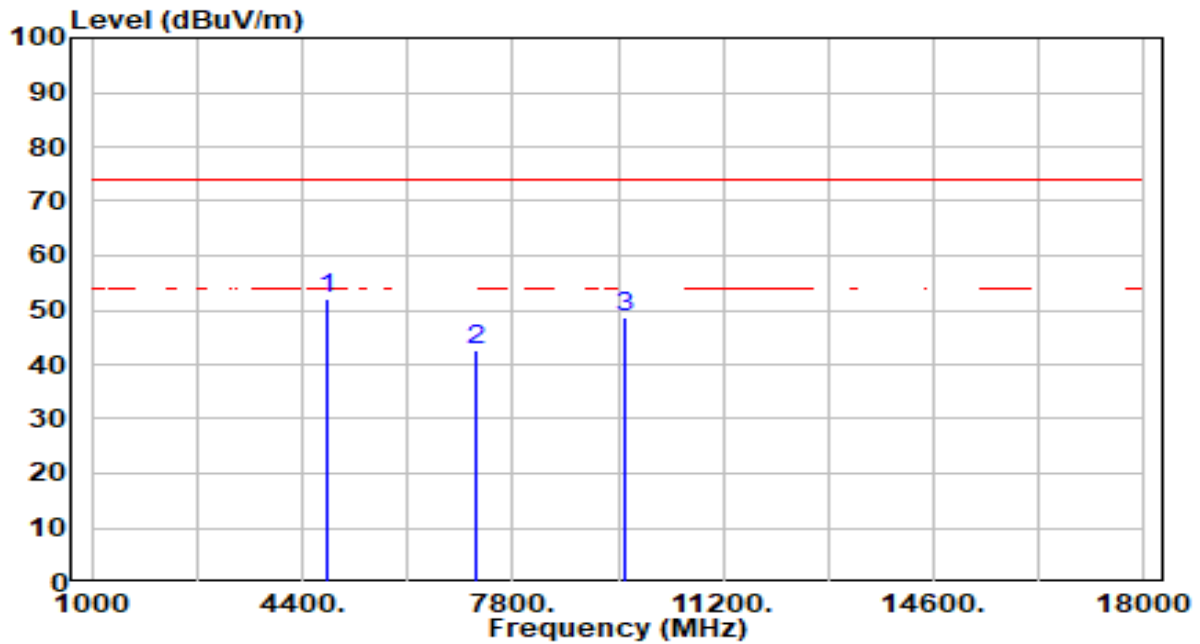


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	48.20	-1.15	47.05	-26.95	74.00	200	245	Peak
2	7206.000	39.32	3.90	43.22	-30.78	74.00	200	269	Peak
3	* 9608.000	48.33	3.20	51.53	-22.47	74.00	200	226	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

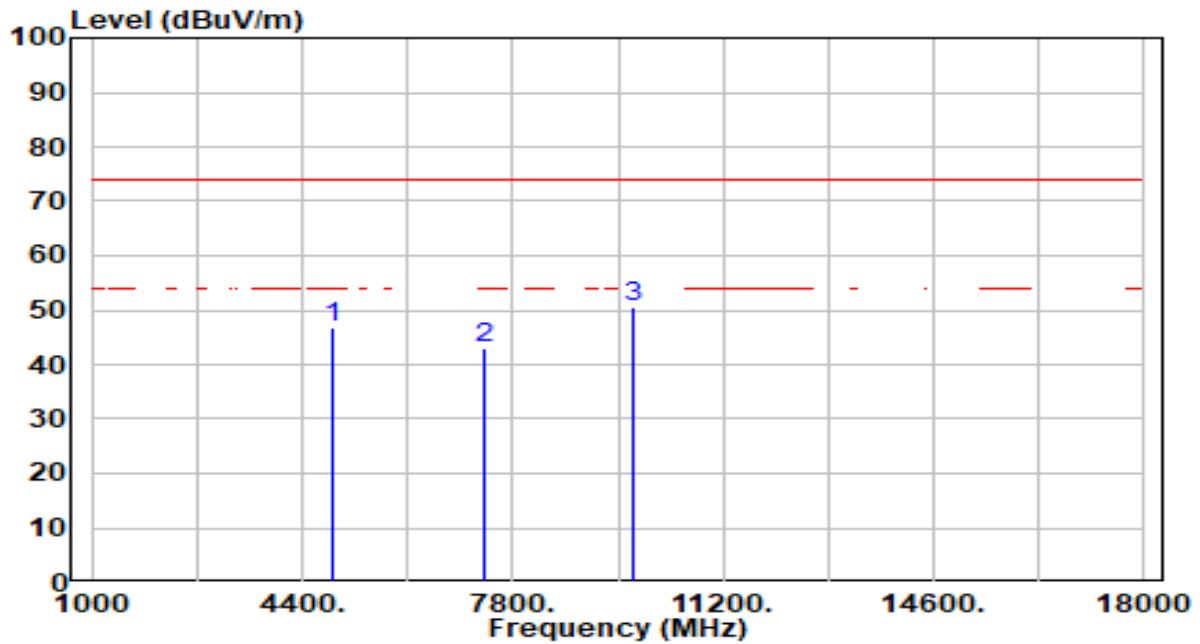


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4804.000	53.11	-1.15	51.96	-22.04	74.00	200	174	Peak
2	7206.000	38.90	3.90	42.79	-31.21	74.00	200	214	Peak
3	9608.000	45.29	3.20	48.50	-25.50	74.00	200	146	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 19 ANT 0	Test Voltage	AC 120V/60Hz

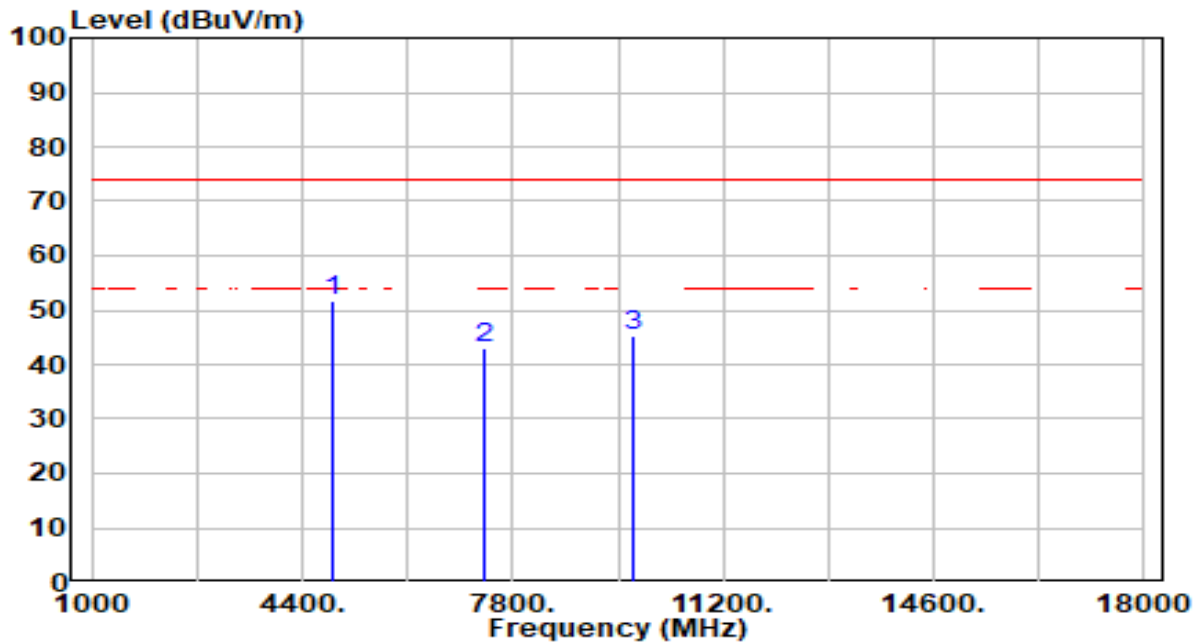


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4880.000	47.85	-0.95	46.90	-27.10	74.00	200	237	Peak
2	7320.000	39.20	3.92	43.13	-30.87	74.00	200	6	Peak
3	* 9760.000	47.41	3.25	50.65	-23.35	74.00	200	217	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 19 ANT 0	Test Voltage	AC 120V/60Hz



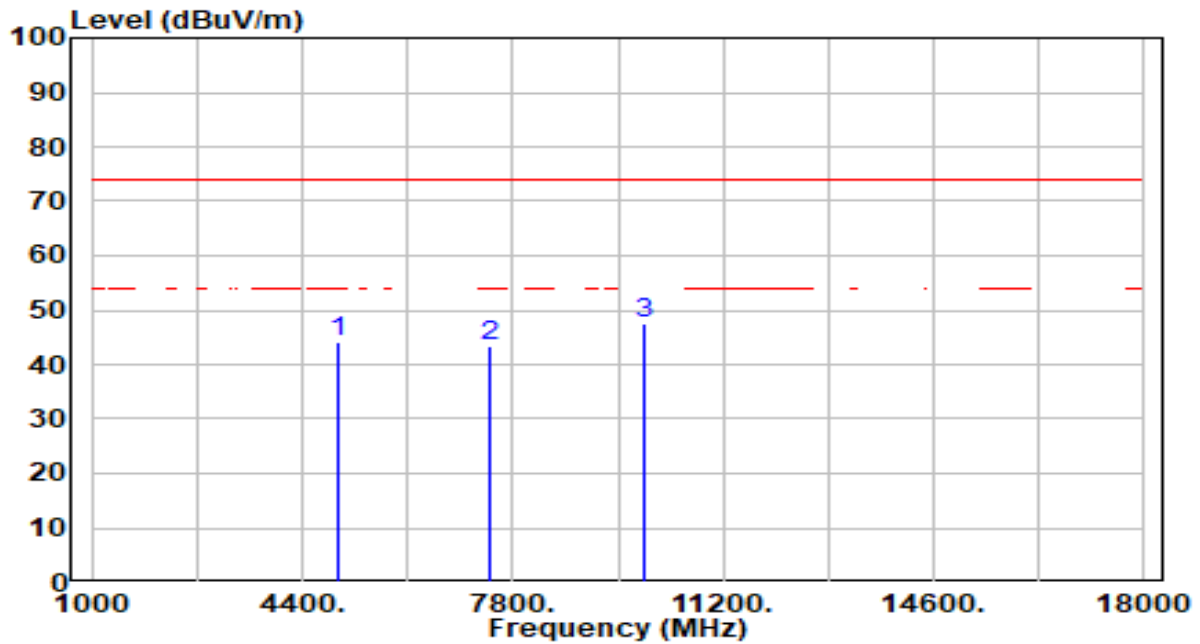
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4880.000	52.73	-0.95	51.78	-22.22	74.00	200	176	Peak
2	7320.000	38.95	3.92	42.87	-31.13	74.00	200	184	Peak
3	9760.000	41.97	3.25	45.21	-28.79	74.00	200	132	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

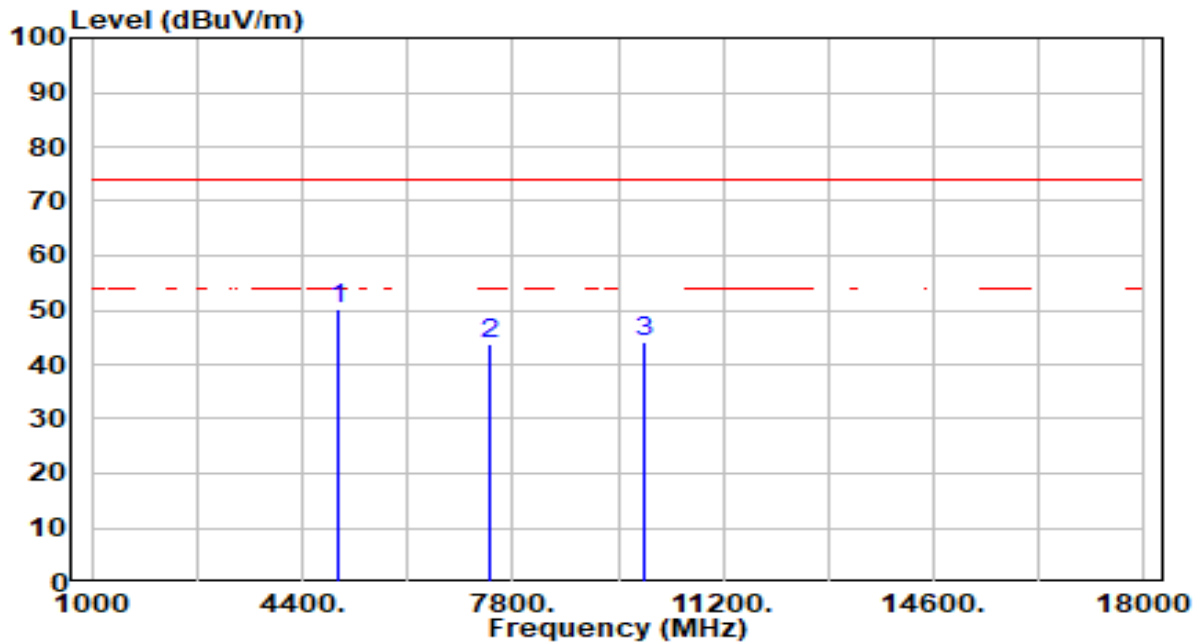


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	44.97	-0.74	44.23	-29.77	74.00	200	140	Peak
2	7440.000	39.66	3.91	43.57	-30.43	74.00	200	228	Peak
3	* 9920.000	44.22	3.29	47.51	-26.49	74.00	200	187	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

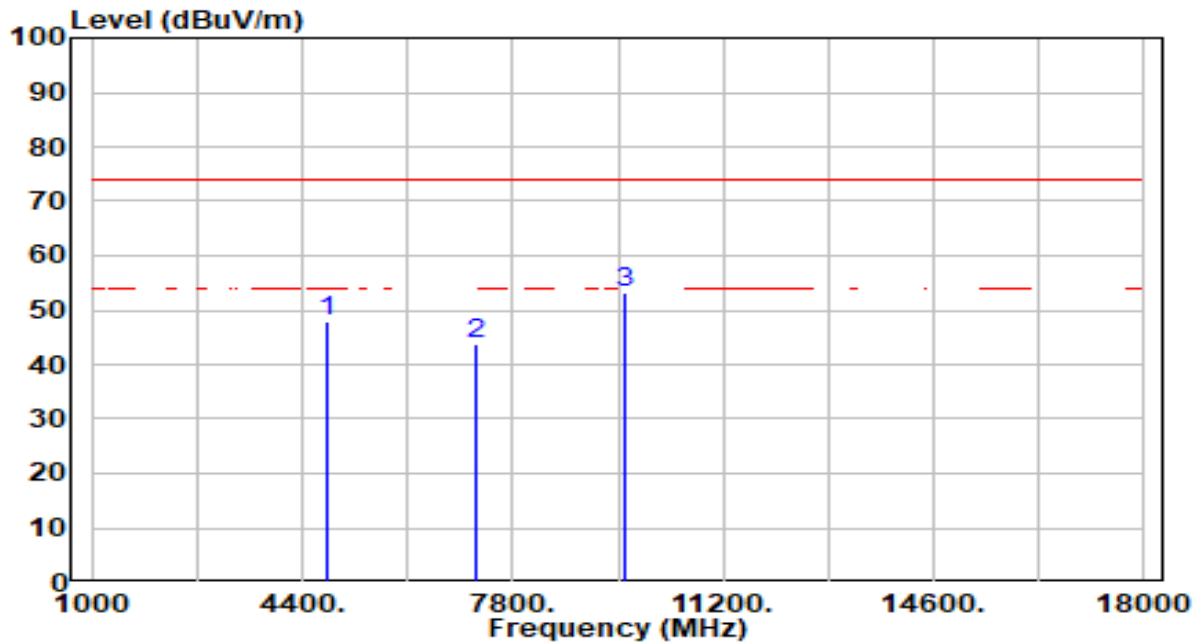


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4960.000	50.96	-0.74	50.21	-23.79	74.00	200	174	Peak
2	7440.000	39.96	3.91	43.86	-30.14	74.00	200	131	Peak
3	9920.000	40.94	3.29	44.23	-29.77	74.00	200	278	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

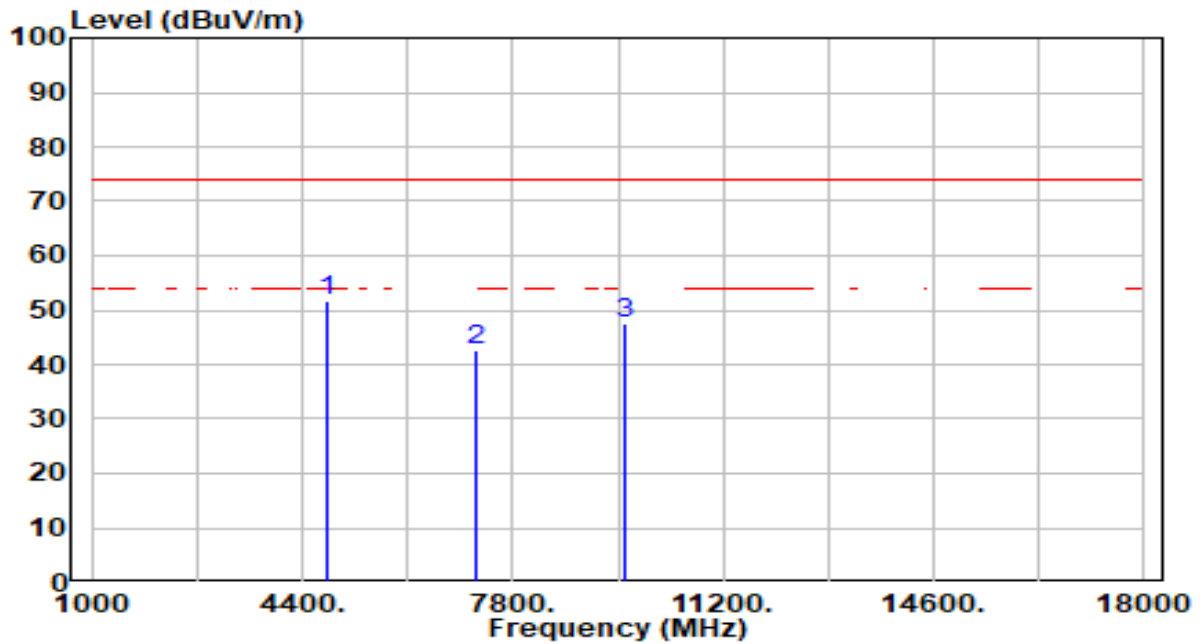


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	49.05	-1.15	47.90	-26.10	74.00	200	245	Peak
2	7206.000	39.69	3.90	43.59	-30.41	74.00	200	82	Peak
3	* 9608.000	49.83	3.20	53.03	-20.97	74.00	200	192	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

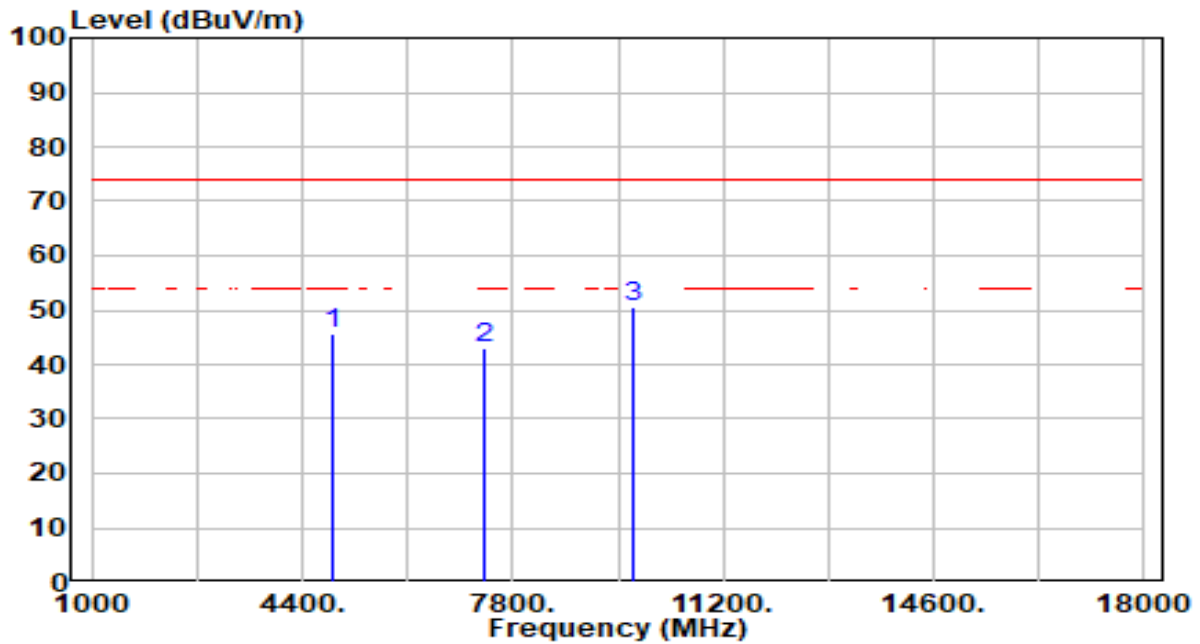


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4804.000	52.92	-1.15	51.77	-22.23	74.00	200	185	Peak
2	7206.000	38.71	3.90	42.61	-31.39	74.00	200	360	Peak
3	9608.000	44.39	3.20	47.60	-26.40	74.00	200	144	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 19 ANT 0	Test Voltage	AC 120V/60Hz

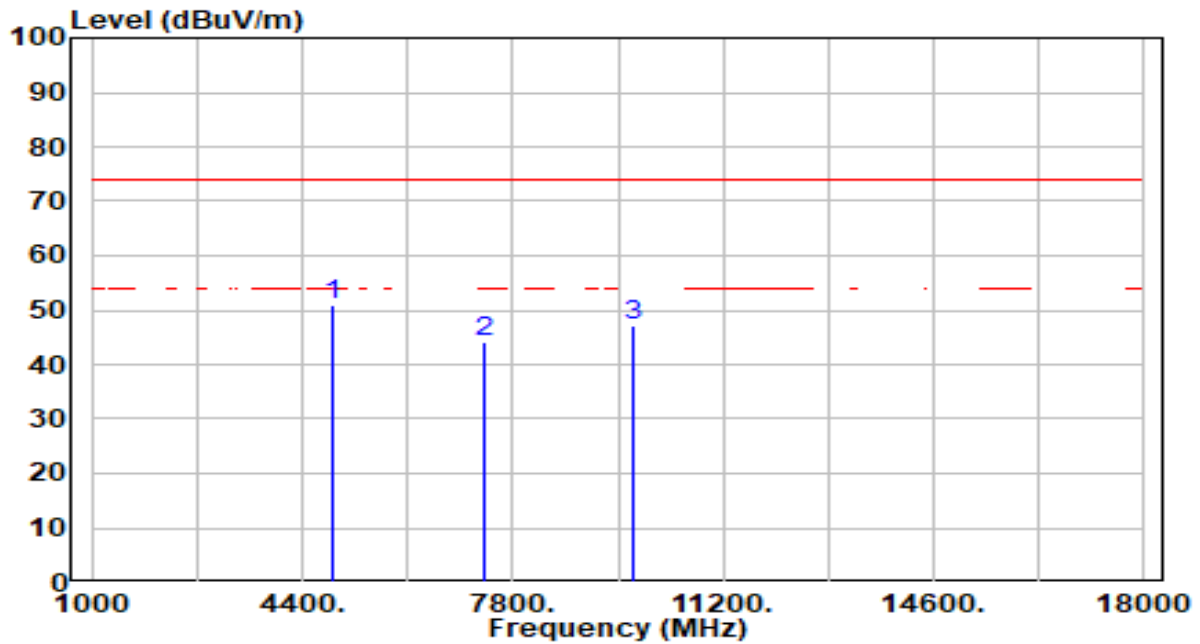


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4880.000	46.44	-0.95	45.49	-28.51	74.00	200	131	Peak
2	7320.000	39.15	3.92	43.07	-30.93	74.00	200	123	Peak
3	* 9760.000	47.27	3.25	50.51	-23.49	74.00	200	226	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 19 ANT 0	Test Voltage	AC 120V/60Hz

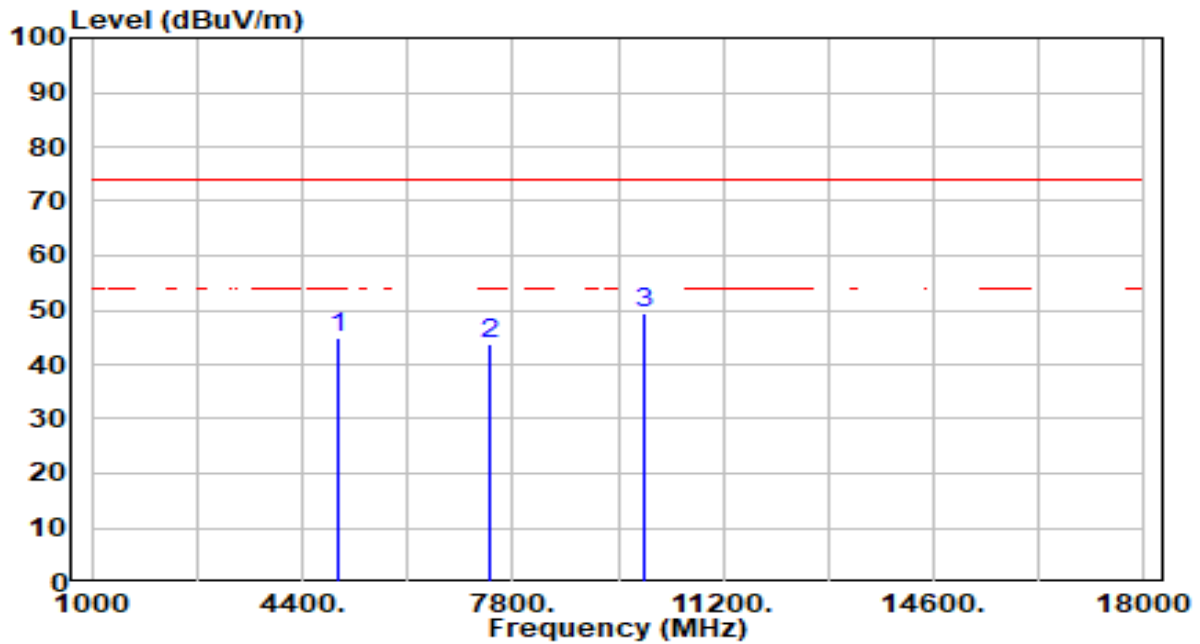


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4880.000	52.01	-0.95	51.06	-22.94	74.00	200	224	Peak
2	7320.000	40.33	3.92	44.25	-29.75	74.00	200	251	Peak
3	9760.000	44.03	3.25	47.27	-26.73	74.00	200	133	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

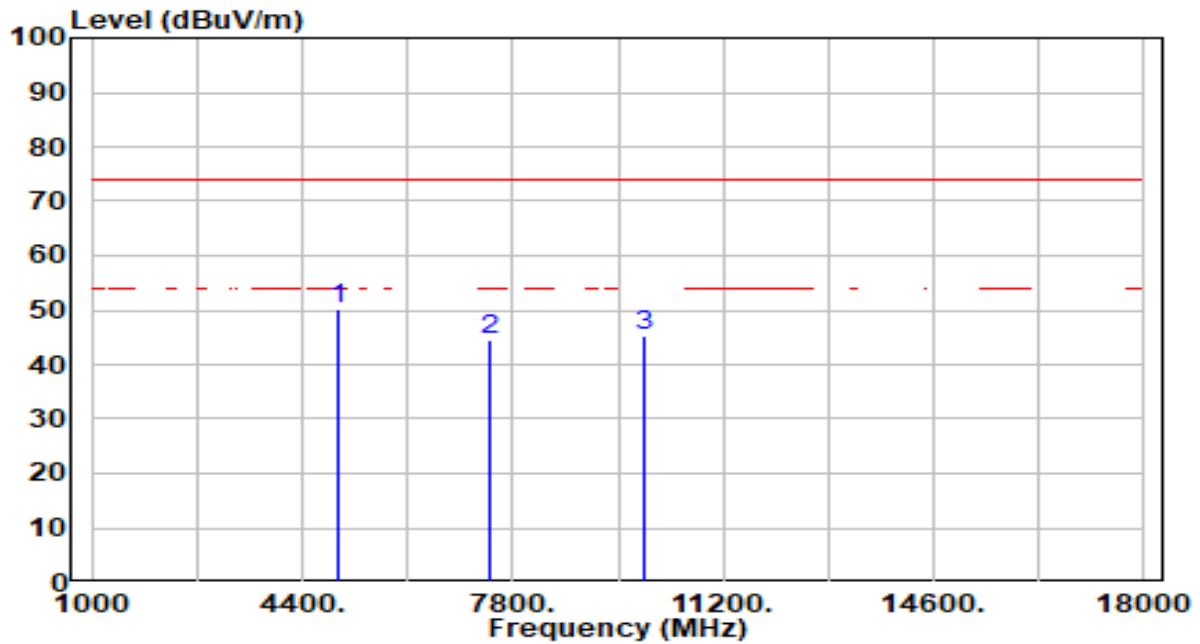


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	45.70	-0.74	44.96	-29.04	74.00	200	125	Peak
2	7440.000	39.73	3.91	43.64	-30.36	74.00	200	156	Peak
3	* 9920.000	46.24	3.29	49.53	-24.47	74.00	200	208	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 4960.000	50.97	-0.74	50.22	-23.78	74.00	200	172	Peak
2	7440.000	40.54	3.91	44.44	-29.56	74.00	200	192	Peak
3	9920.000	42.14	3.29	45.43	-28.57	74.00	200	350	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



## 7.7. Radiated Restricted Band Edge Measurement

### 7.7.1. Test Limit

#### For 15.205 requirement:

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

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 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	( <sup>2</sup> )
13.36 - 13.41	--	--	--

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

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

### 7.7.2. Test Procedure Used

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

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

### 7.7.3. Test Setting

#### Peak Field Strength Measurements

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

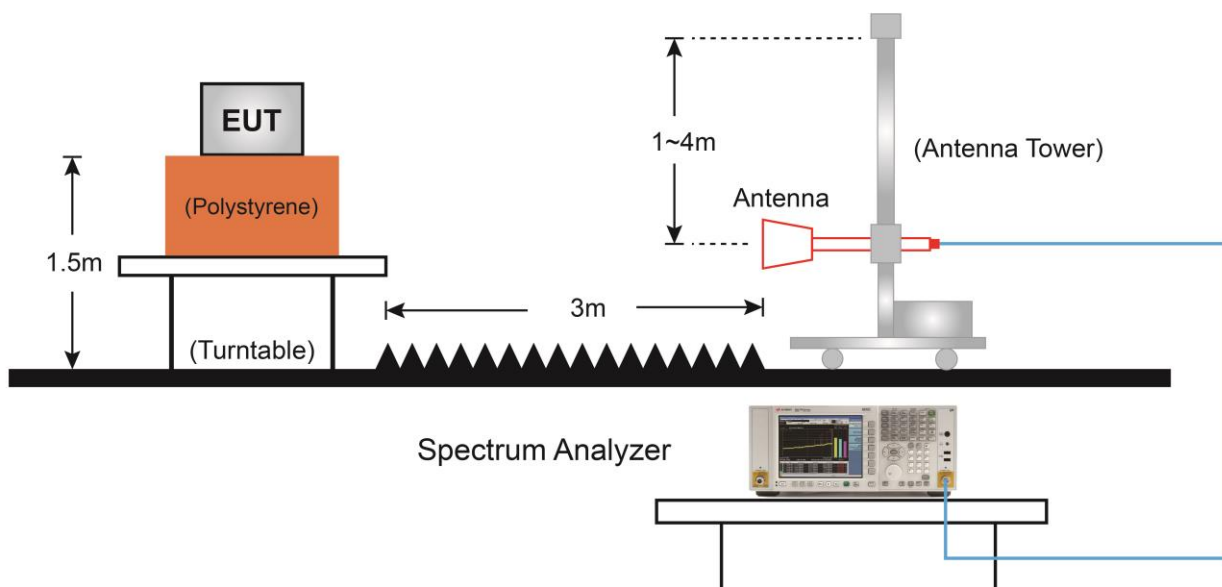
### Average Measurements above 1GHz (Method VB)

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

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

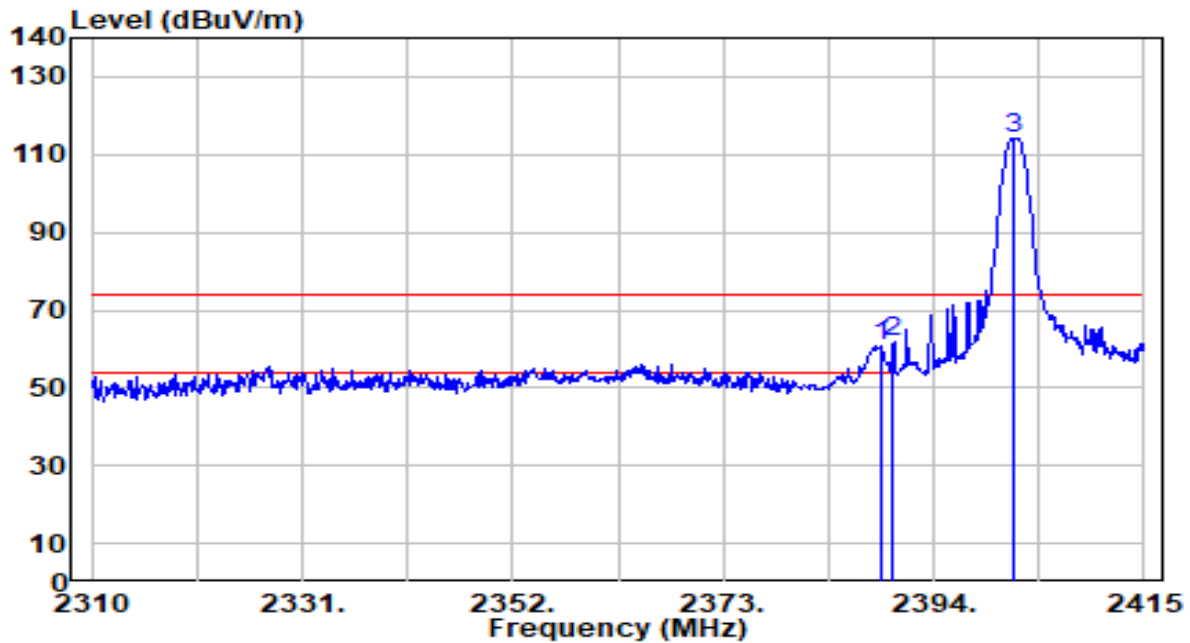
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### 7.7.4. Test Setup



### 7.7.5. Test Result

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

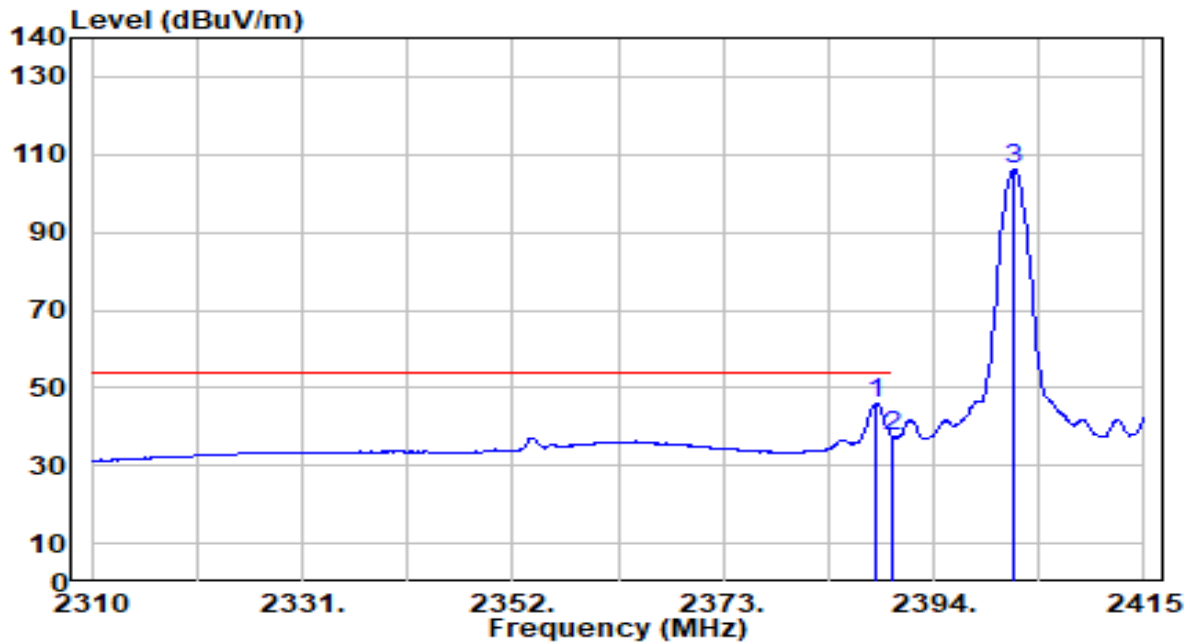


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.645	66.10	-5.41	60.68	-13.32	74.00	294	210	Peak
2	* 2390.000	67.32	-5.41	61.91	-12.09	74.00	294	210	Peak
3	2401.980	119.44	-5.39	114.05	N/A	N/A	294	210	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

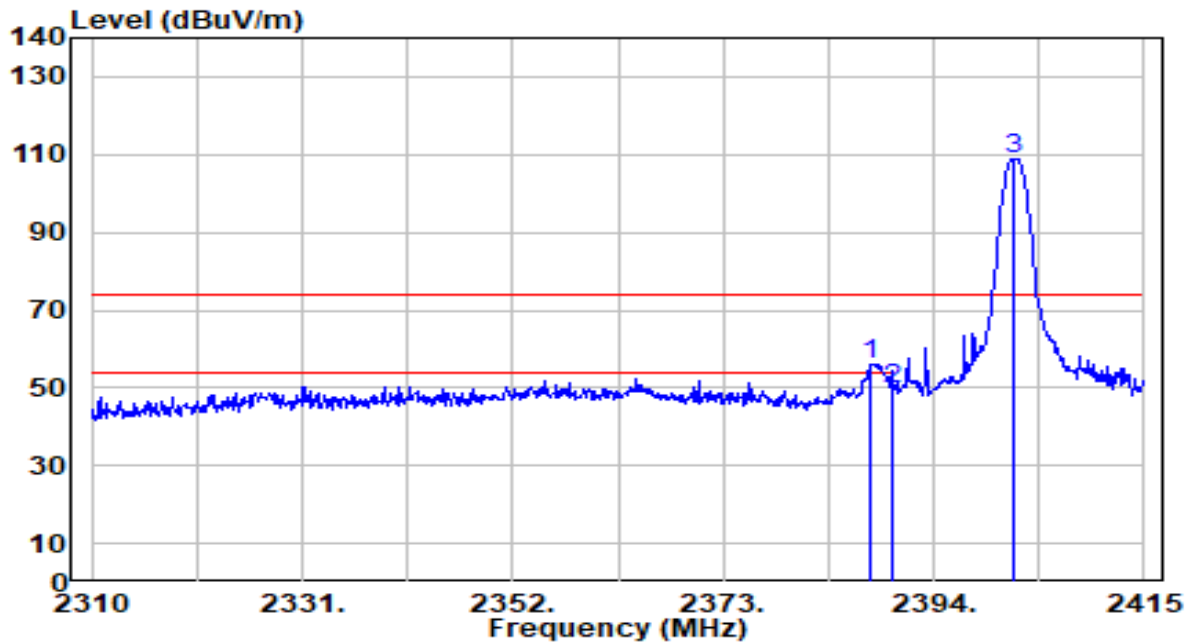


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)	
1	*	2388.225	51.54	-5.42	46.12	-7.88	54.00	294	210	Average
2		2390.000	42.75	-5.41	37.34	-16.66	54.00	294	210	Average
3		2401.980	111.68	-5.39	106.29	N/A	N/A	294	210	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

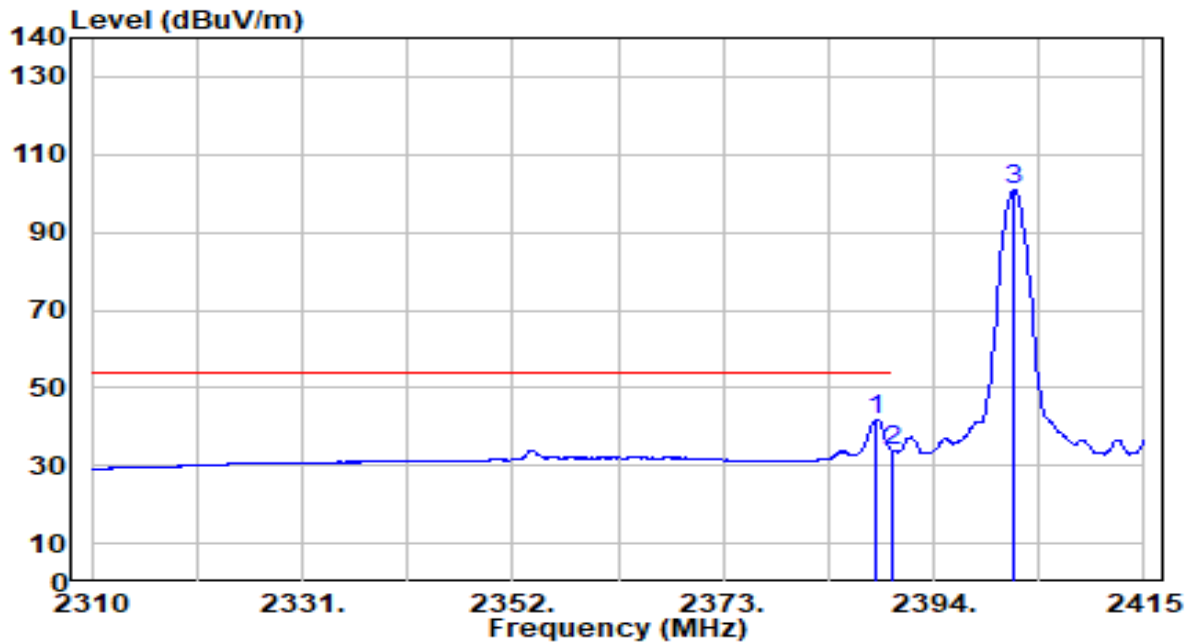


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)	
1	*	2387.805	61.54	-5.42	56.13	-17.87	74.00	102	22	Peak
2		2390.000	55.12	-5.41	49.71	-24.29	74.00	102	22	Peak
3		2402.085	114.13	-5.39	108.74	N/A	N/A	102	22	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

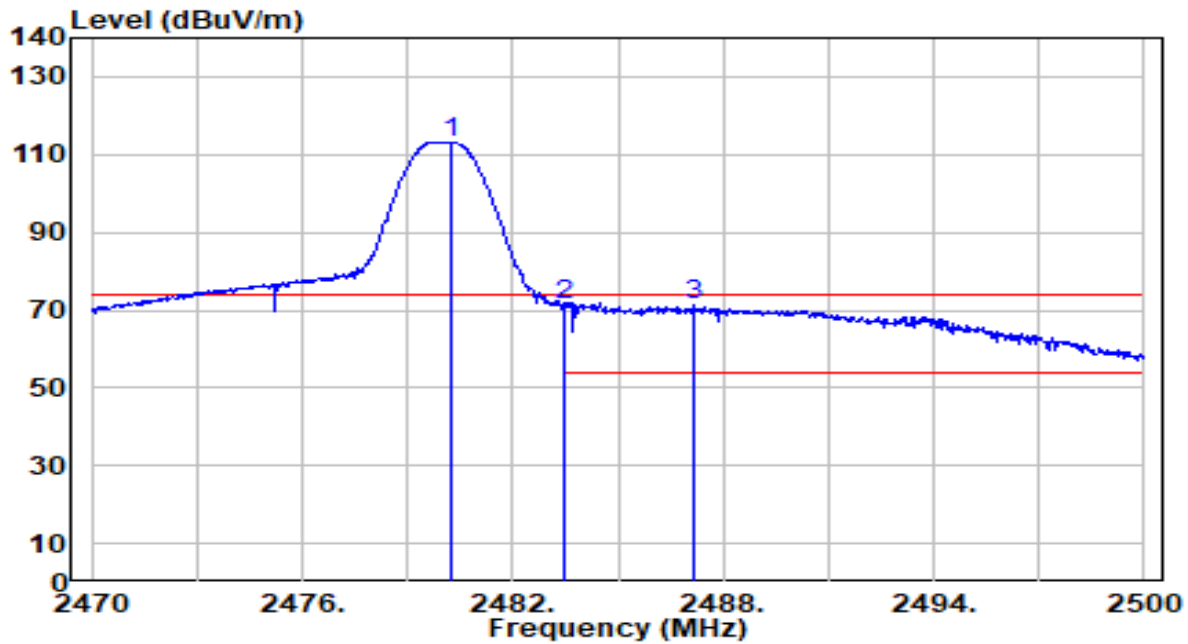


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2388.330	47.39	-5.42	41.97	-12.03	54.00	102	22	Average
2	2390.000	39.00	-5.41	33.59	-20.41	54.00	102	22	Average
3	2401.980	106.42	-5.39	101.03	N/A	N/A	102	22	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz



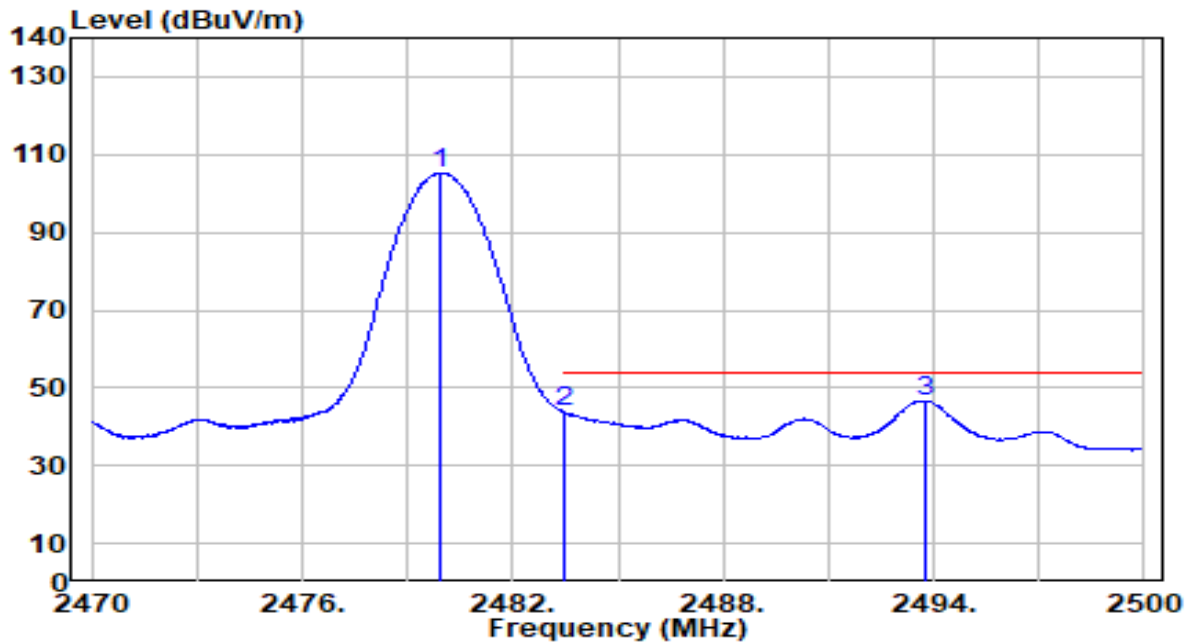
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.260	118.52	-5.37	113.15	N/A	N/A	210	212	Peak
2	* 2483.500	76.76	-5.37	71.40	-2.60	74.00	210	212	Peak
3	2487.160	76.43	-5.36	71.06	-2.94	74.00	210	212	Peak

Note:

1. " \*" , means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

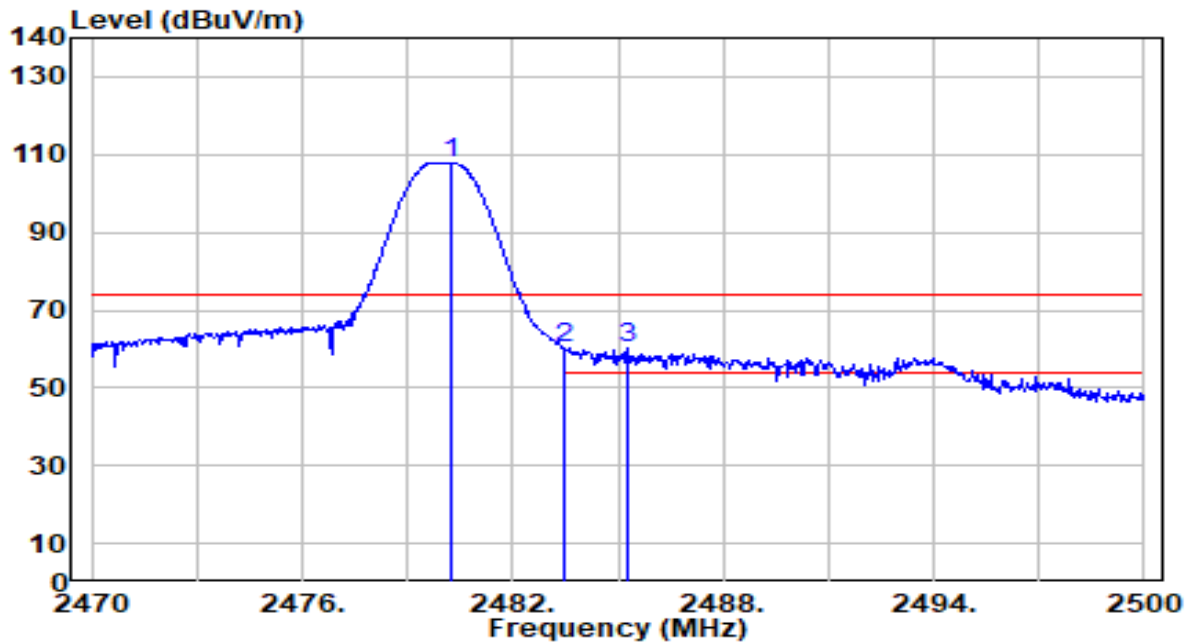


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.960	110.72	-5.37	105.36	N/A	N/A	210	212	Average
2	2483.500	49.00	-5.37	43.64	-10.36	54.00	210	212	Average
3	* 2493.790	52.05	-5.36	46.69	-7.31	54.00	210	212	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

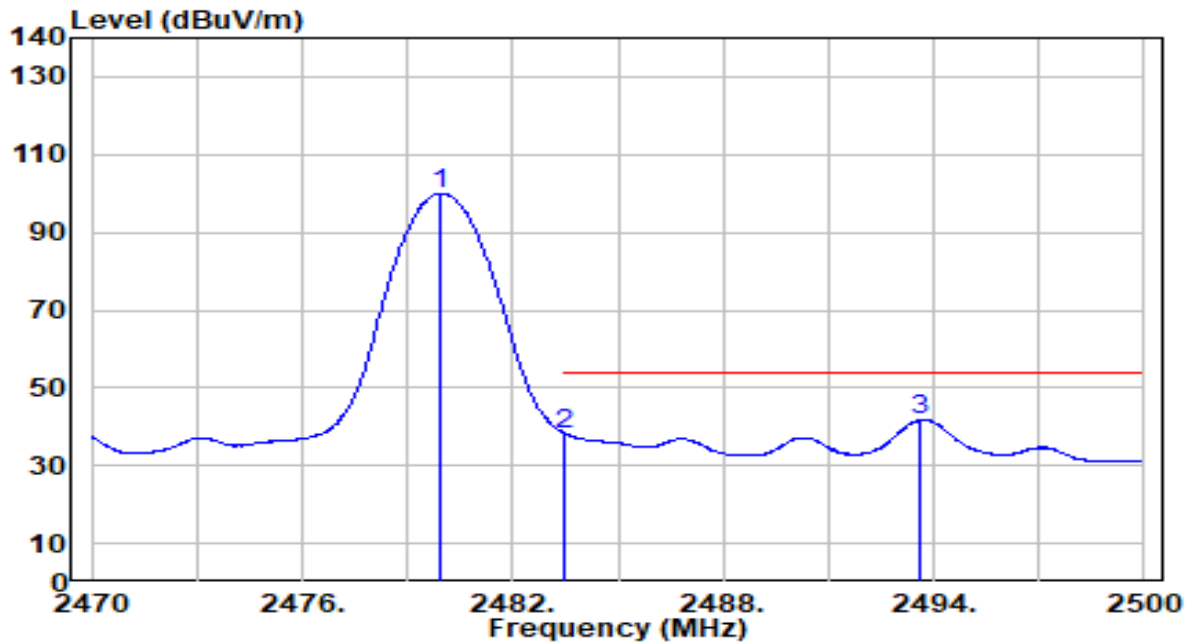


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.230	113.23	-5.37	107.87	N/A	N/A	100	220	Peak
2	2483.500	65.35	-5.37	59.98	-14.02	74.00	100	220	Peak
3	* 2485.240	65.45	-5.37	60.08	-13.92	74.00	100	220	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_1Mbps_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

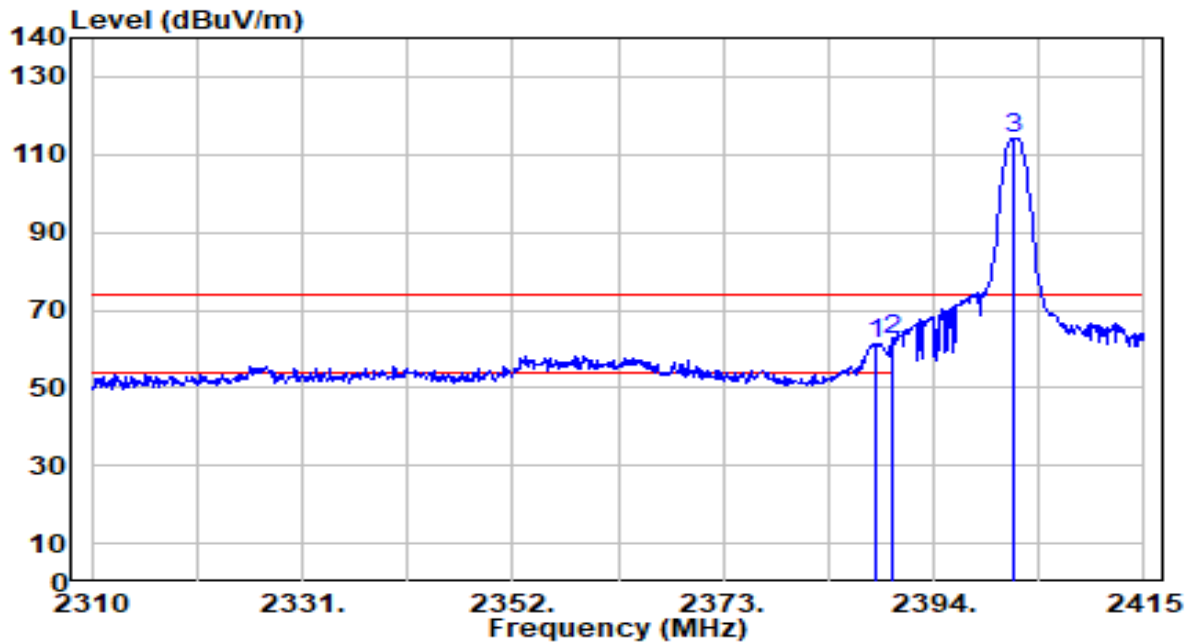


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.960	105.47	-5.37	100.10	N/A	N/A	100	220	Average
2	2483.500	43.63	-5.37	38.26	-15.74	54.00	100	220	Average
3	* 2493.640	47.24	-5.36	41.88	-12.12	54.00	100	220	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

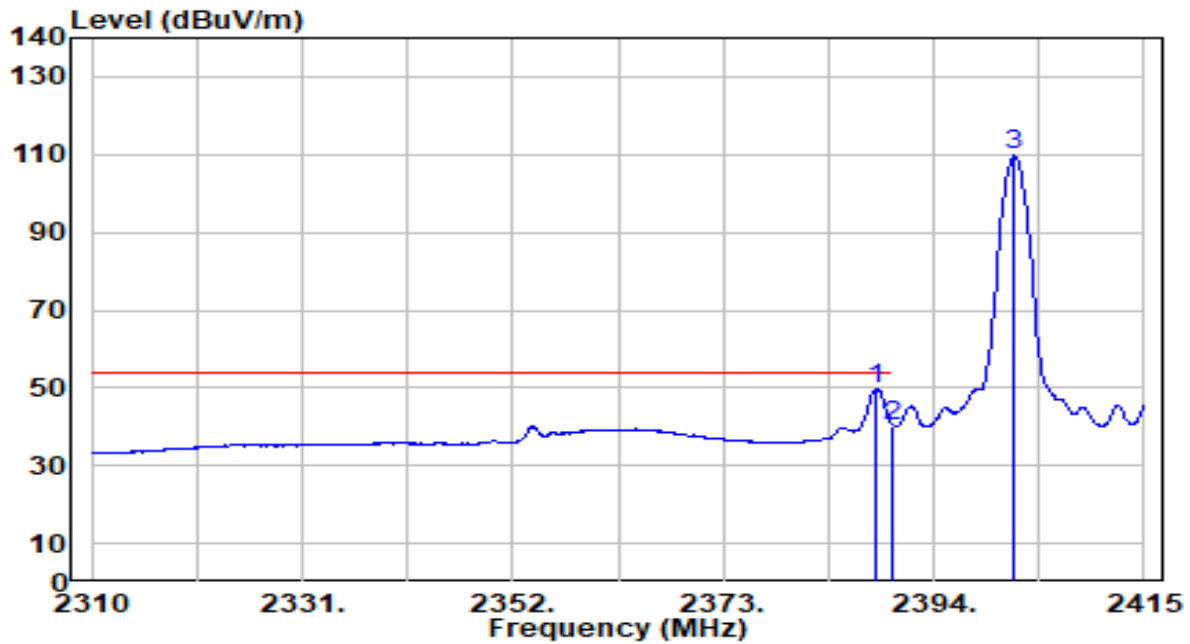


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2388.120	66.87	-5.42	61.45	-12.55	74.00	294	210	Peak
2	* 2390.000	67.71	-5.41	62.30	-11.70	74.00	294	210	Peak
3	2402.085	119.66	-5.39	114.27	N/A	N/A	294	210	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

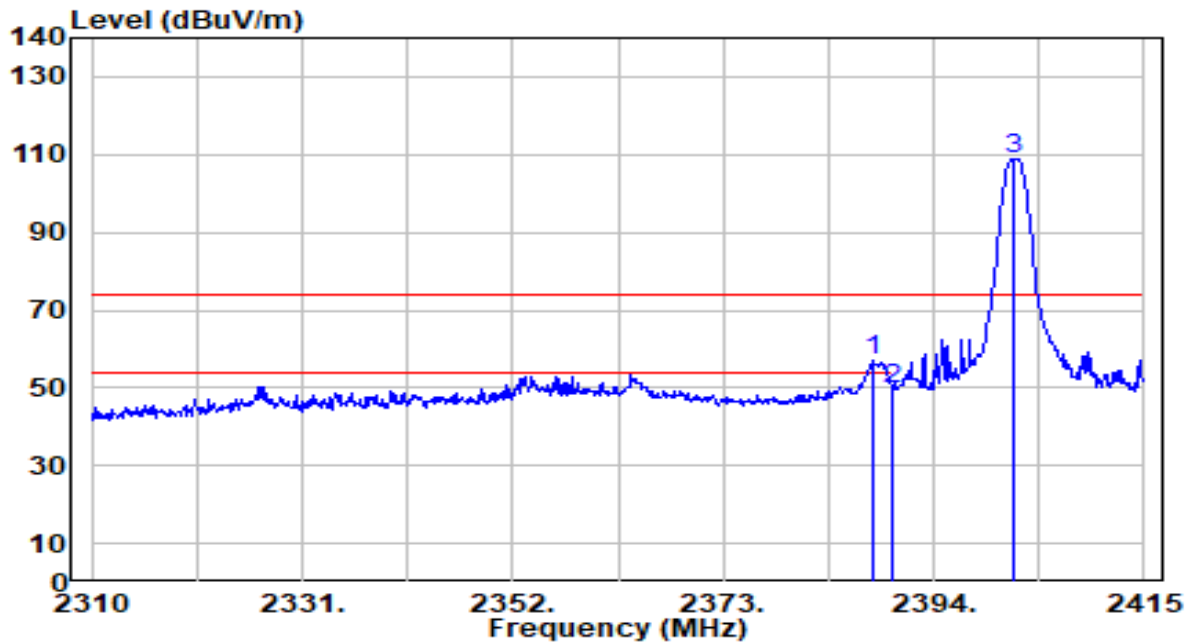


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2388.330	55.09	-5.42	49.67	-4.33	54.00	294	210	Average
2	2390.000	45.69	-5.41	40.28	-13.72	54.00	294	210	Average
3	2402.085	115.05	-5.39	109.66	N/A	N/A	294	210	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

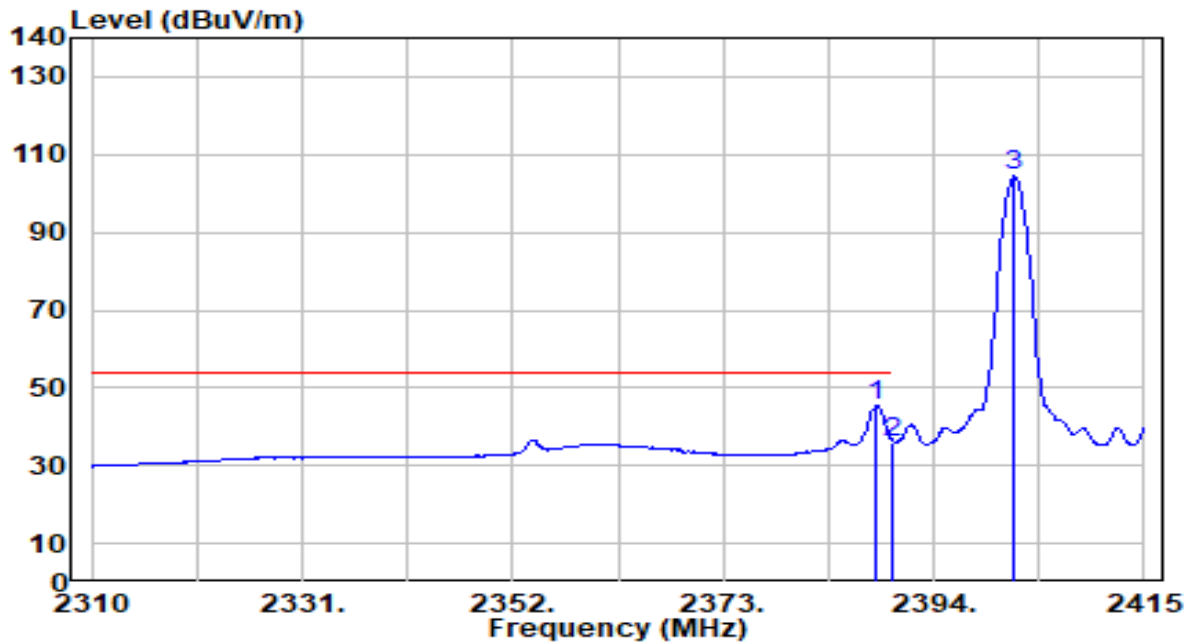


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2388.015	62.24	-5.42	56.82	-17.18	74.00	102	22	Peak
2	2390.000	54.96	-5.41	49.54	-24.46	74.00	102	22	Peak
3	2401.875	114.30	-5.39	108.91	N/A	N/A	102	22	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

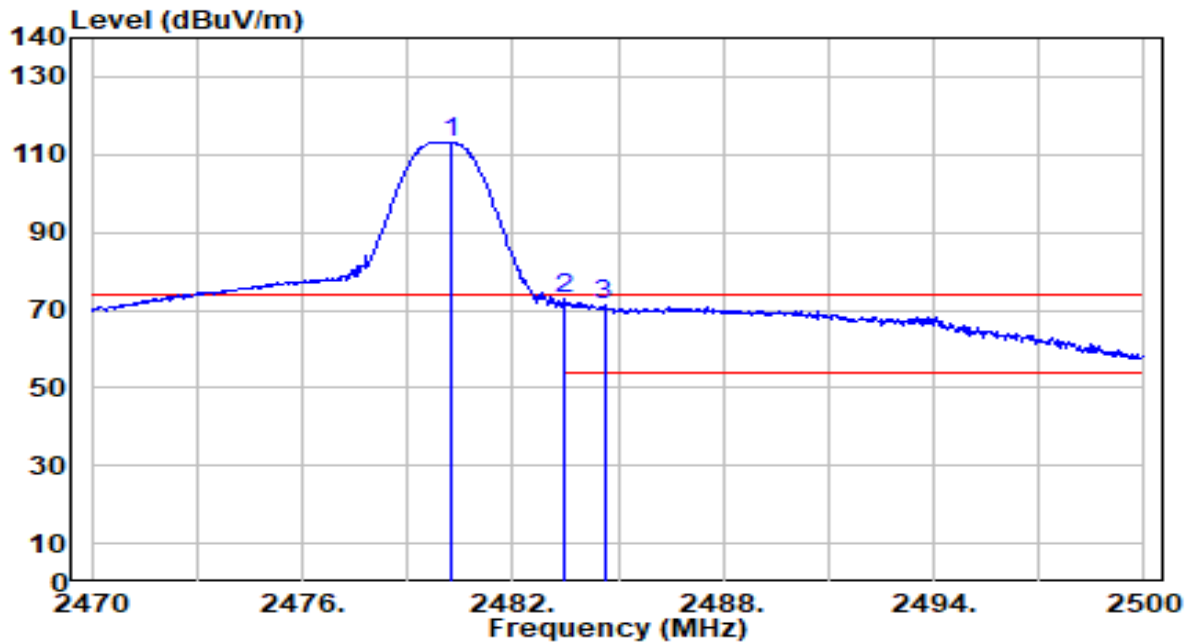


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2388.330	50.78	-5.42	45.37	-8.63	54.00	102	22	Average
2	2390.000	41.58	-5.41	36.17	-17.83	54.00	102	22	Average
3	2402.085	109.73	-5.39	104.34	N/A	N/A	102	22	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz



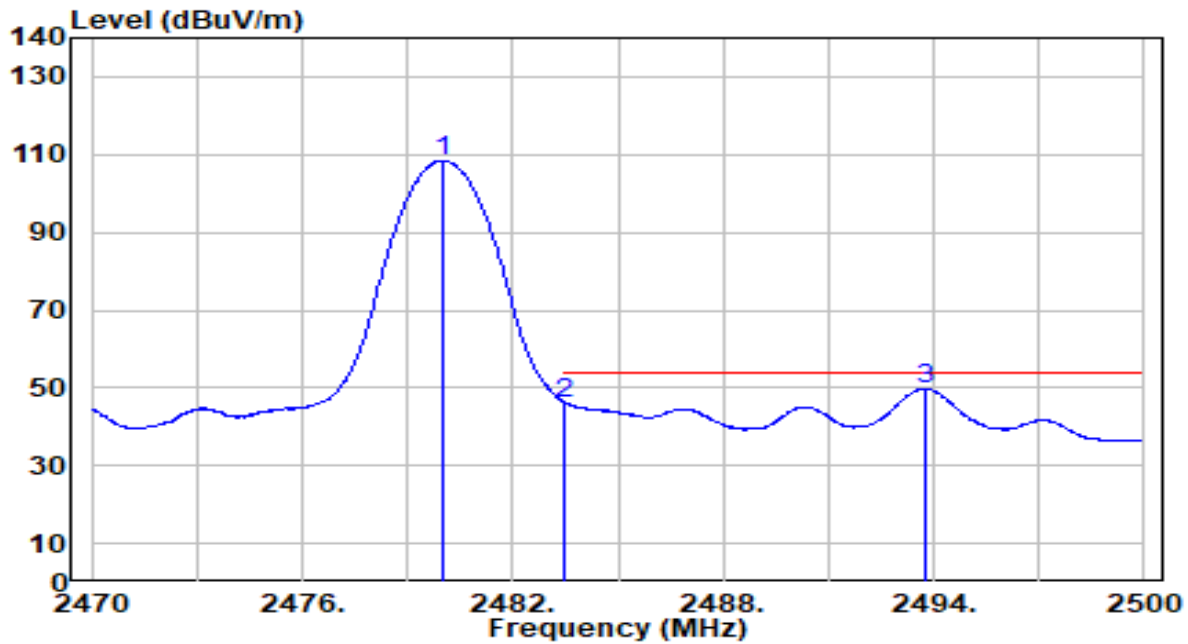
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.260	118.41	-5.37	113.05	N/A	N/A	210	212	Peak
2	* 2483.500	78.50	-5.37	73.14	-0.86	74.00	210	212	Peak
3	2484.610	76.63	-5.37	71.26	-2.74	74.00	210	212	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

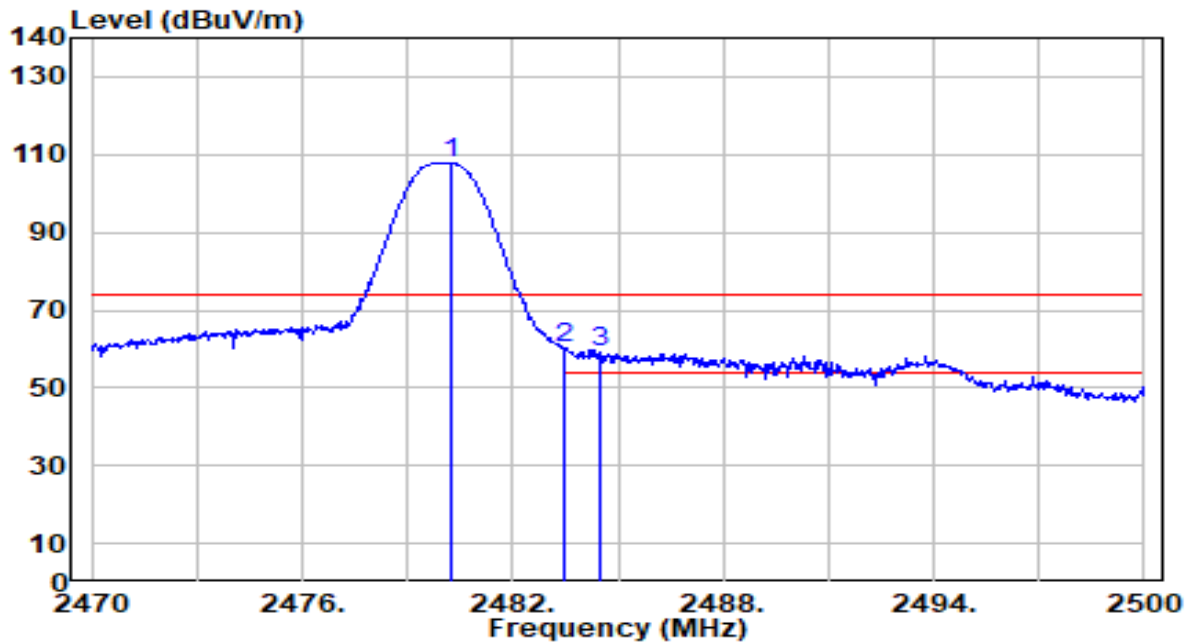


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.990	113.80	-5.37	108.43	N/A	N/A	210	212	Average
2	2483.500	51.58	-5.37	46.21	-7.79	54.00	210	212	Average
3	* 2493.760	55.11	-5.36	49.74	-4.26	54.00	210	212	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

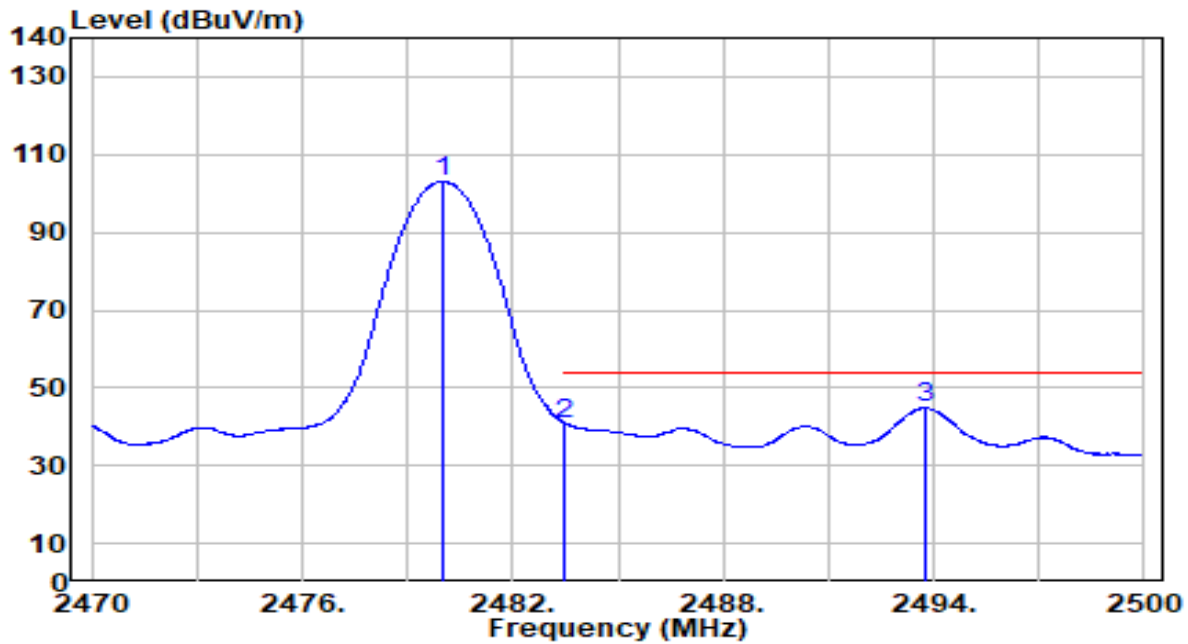


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.260	113.02	-5.37	107.66	N/A	N/A	100	220	Peak
2	* 2483.500	65.63	-5.37	60.26	-13.74	74.00	100	220	Peak
3	2484.520	64.44	-5.37	59.08	-14.92	74.00	100	220	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=2_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

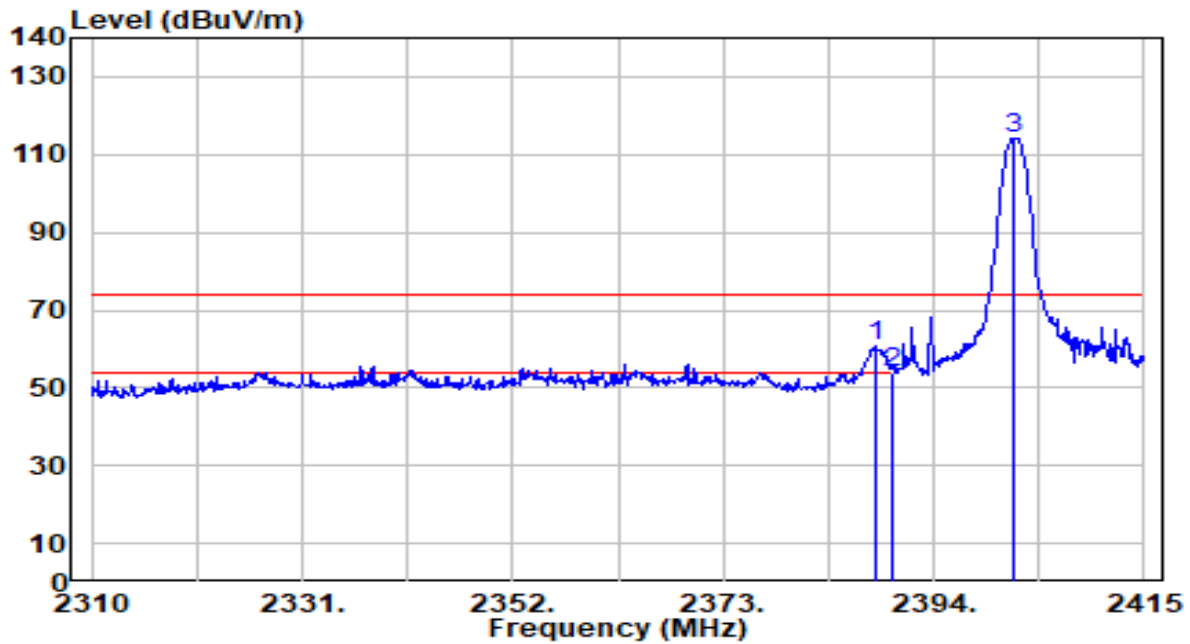


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.990	108.43	-5.37	103.06	N/A	N/A	100	220	Average
2	2483.500	46.27	-5.37	40.90	-13.10	54.00	100	220	Average
3	* 2493.760	50.16	-5.36	44.80	-9.20	54.00	100	220	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

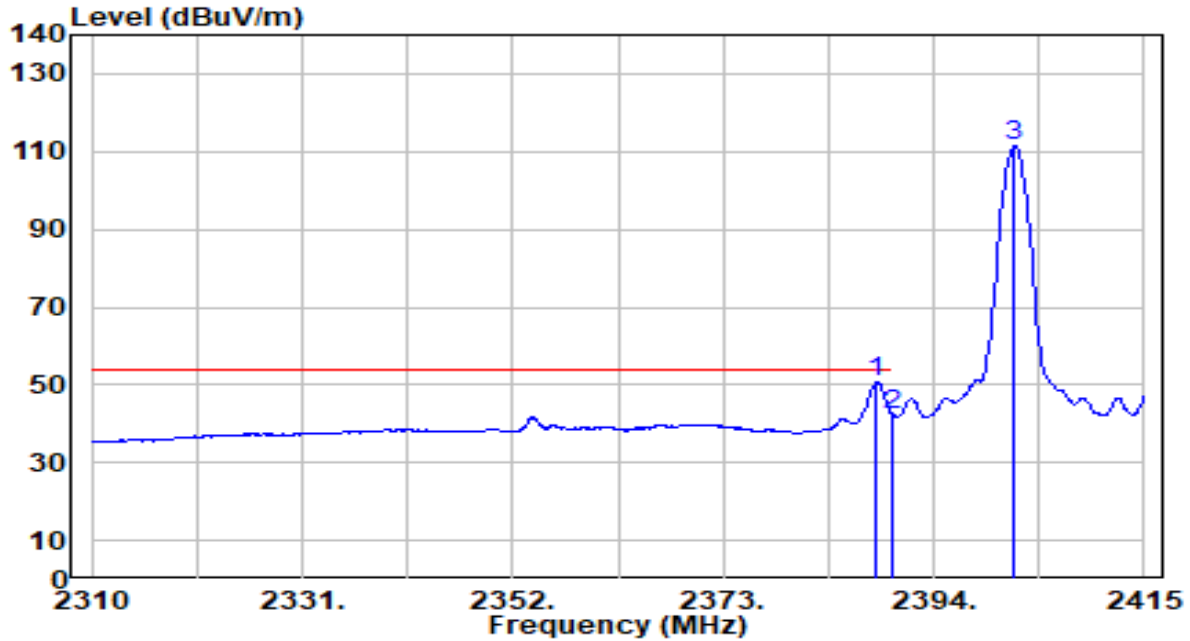


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)	
1	*	2388.225	66.23	-5.42	60.81	-13.19	74.00	294	210	Peak
2		2390.000	59.43	-5.41	54.02	-19.98	74.00	294	210	Peak
3		2402.085	119.32	-5.39	113.93	N/A	N/A	294	210	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

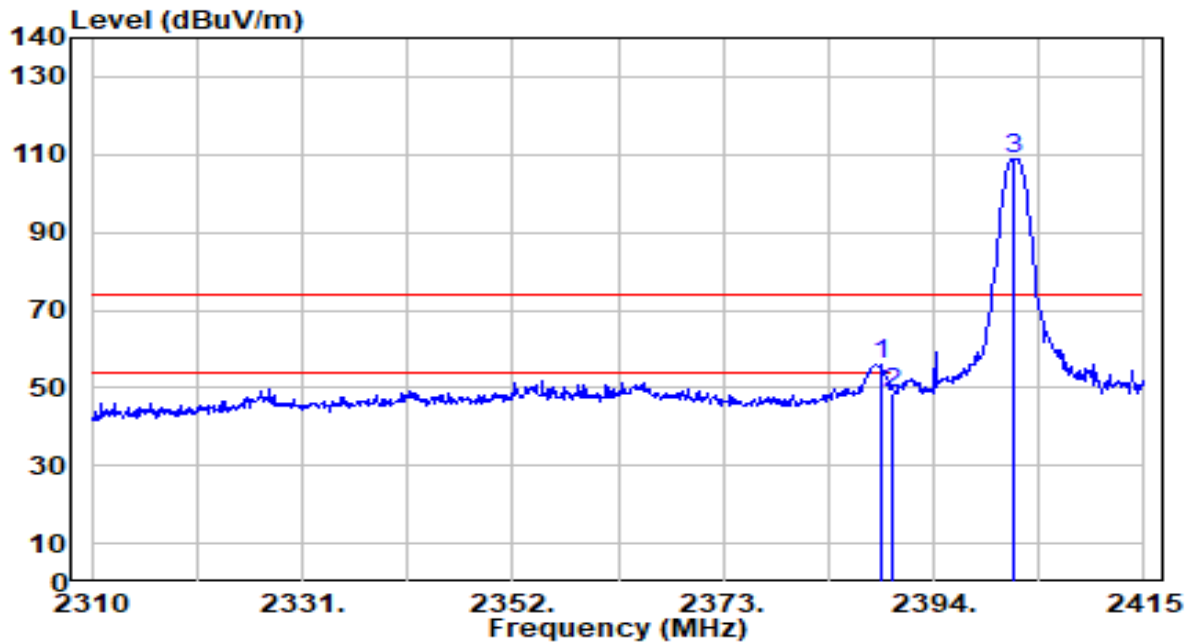


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2388.330	56.09	-5.42	50.67	-3.33	54.00	294	210	Average
2	2390.000	47.47	-5.41	42.06	-11.94	54.00	294	210	Average
3	2402.085	116.80	-5.39	111.40	N/A	N/A	294	210	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

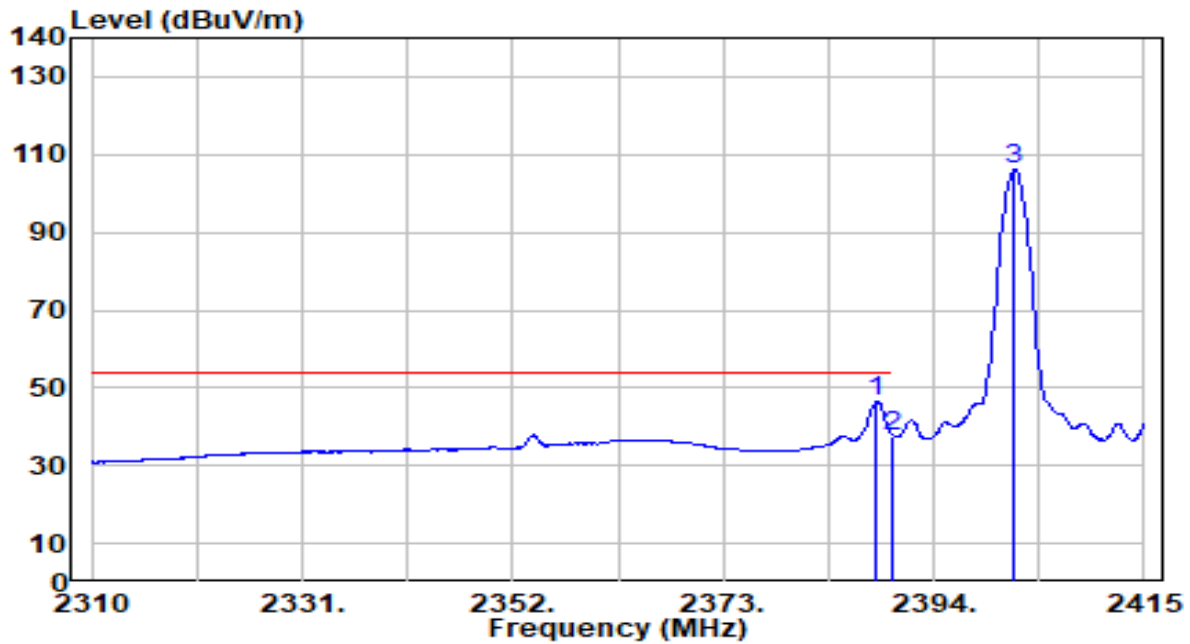


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2388.645	61.67	-5.41	56.25	-17.75	74.00	102	22	Peak
2	2390.000	54.15	-5.41	48.74	-25.26	74.00	102	22	Peak
3	2401.980	114.08	-5.39	108.68	N/A	N/A	102	22	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 0 ANT 0	Test Voltage	AC 120V/60Hz

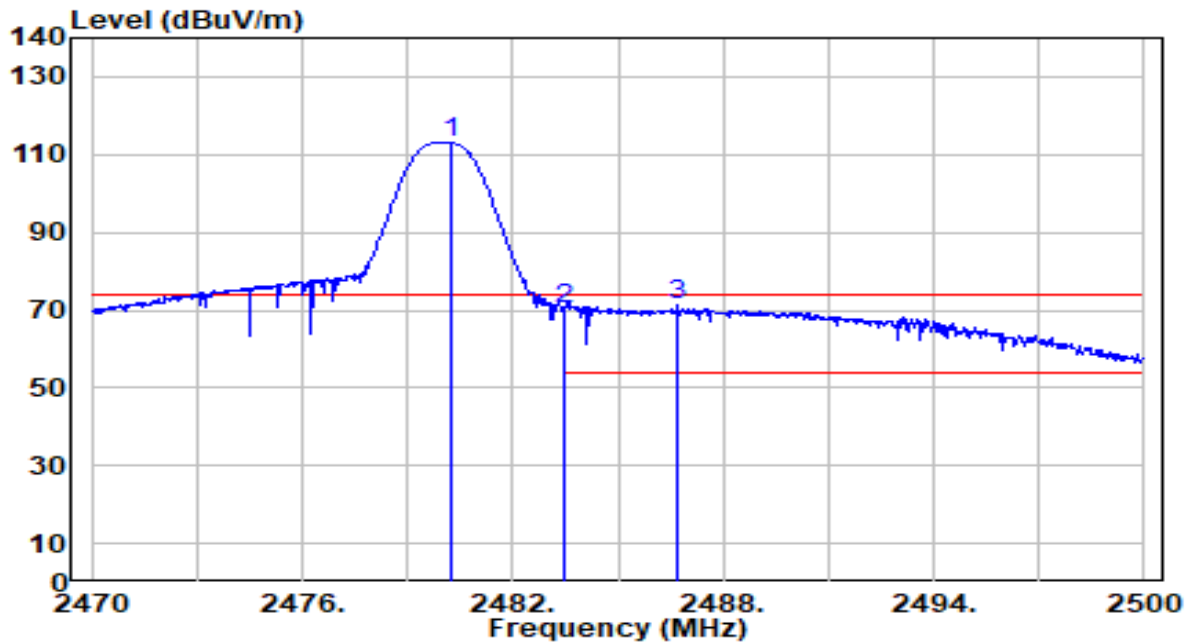


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)	
1	*	2388.330	51.69	-5.42	46.27	-7.73	54.00	102	22	Average
2		2390.000	43.04	-5.41	37.63	-16.37	54.00	102	22	Average
3		2402.085	111.47	-5.39	106.07	N/A	N/A	102	22	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz



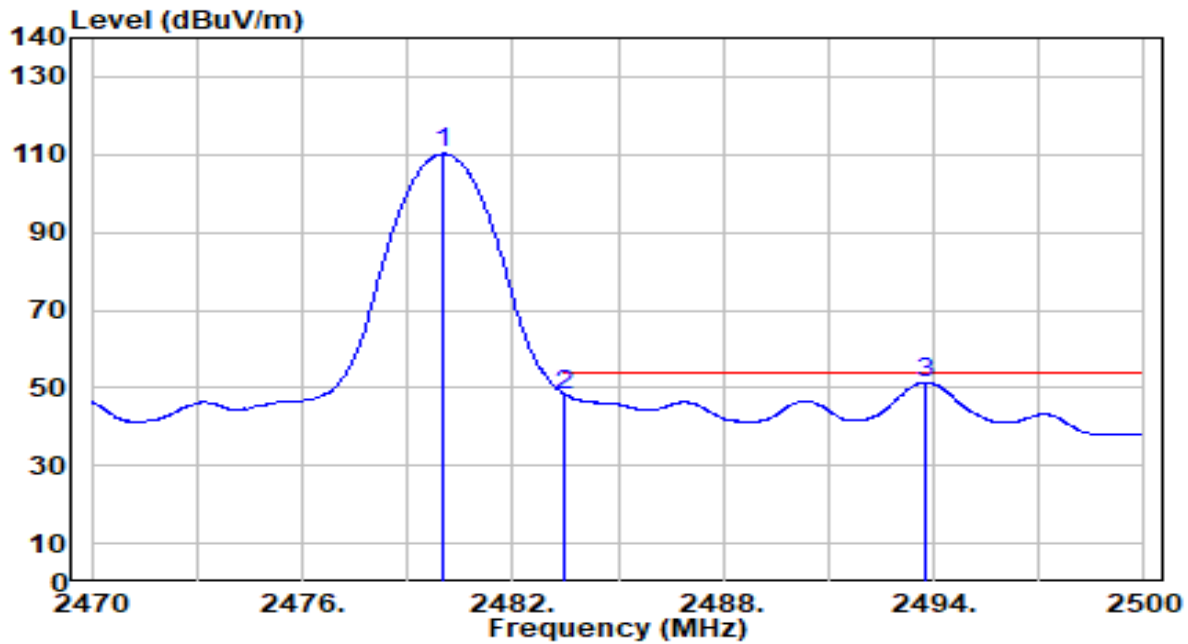
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.260	118.28	-5.37	112.91	N/A	N/A	210	212	Peak
2	2483.500	75.76	-5.37	70.40	-3.60	74.00	210	212	Peak
3	* 2486.710	76.51	-5.36	71.15	-2.85	74.00	210	212	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

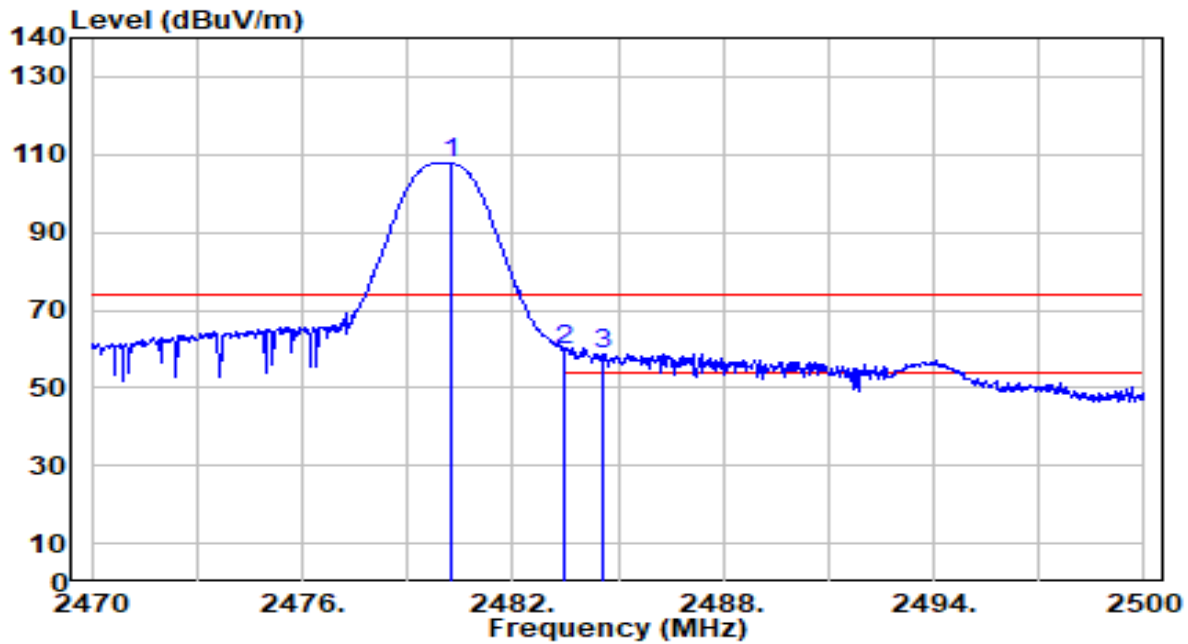


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.020	115.54	-5.37	110.17	N/A	N/A	210	212	Average
2	2483.500	53.64	-5.37	48.28	-5.72	54.00	210	212	Average
3	* 2493.730	56.75	-5.36	51.39	-2.61	54.00	210	212	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz

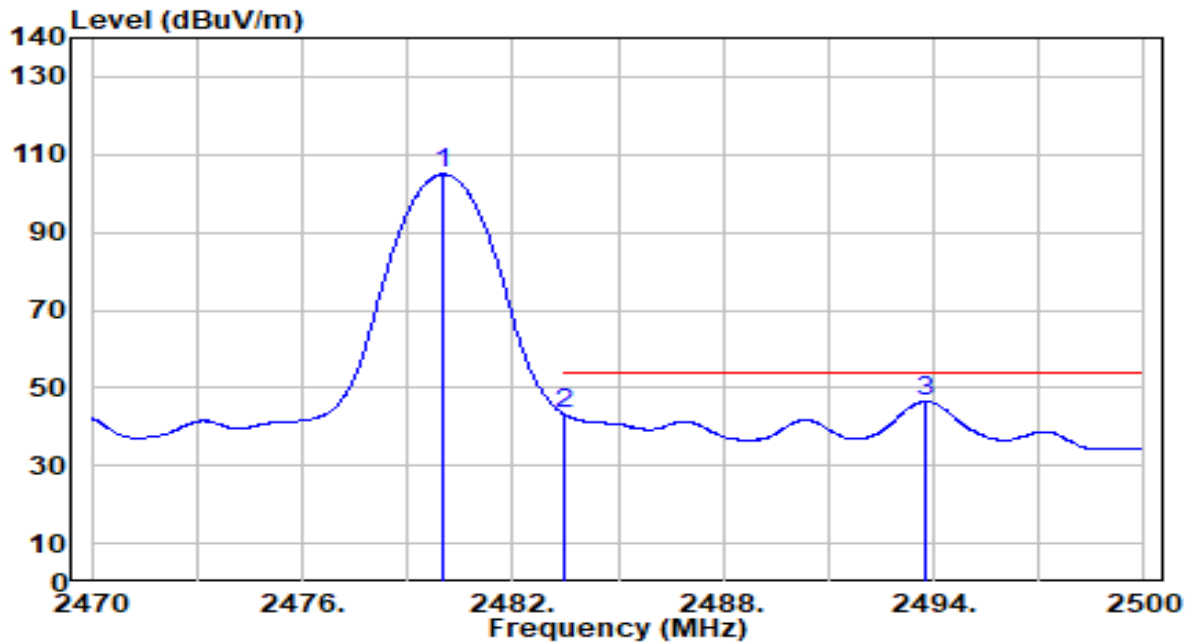


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.230	112.99	-5.37	107.62	N/A	N/A	100	220	Peak
2	* 2483.500	64.91	-5.37	59.54	-14.46	74.00	100	220	Peak
3	2484.550	64.24	-5.37	58.87	-15.13	74.00	100	220	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-24
Factor	DRH18-E	Temp. / Humidity	21°C /61%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	BLE_Coded S=8_TX_CH 39 ANT 0	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.020	110.29	-5.37	104.93	N/A	N/A	100	220	Average
2	2483.500	48.47	-5.37	43.11	-10.89	54.00	100	220	Average
3	* 2493.760	51.85	-5.36	46.49	-7.51	54.00	100	220	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.8. AC Conducted Emissions Measurement

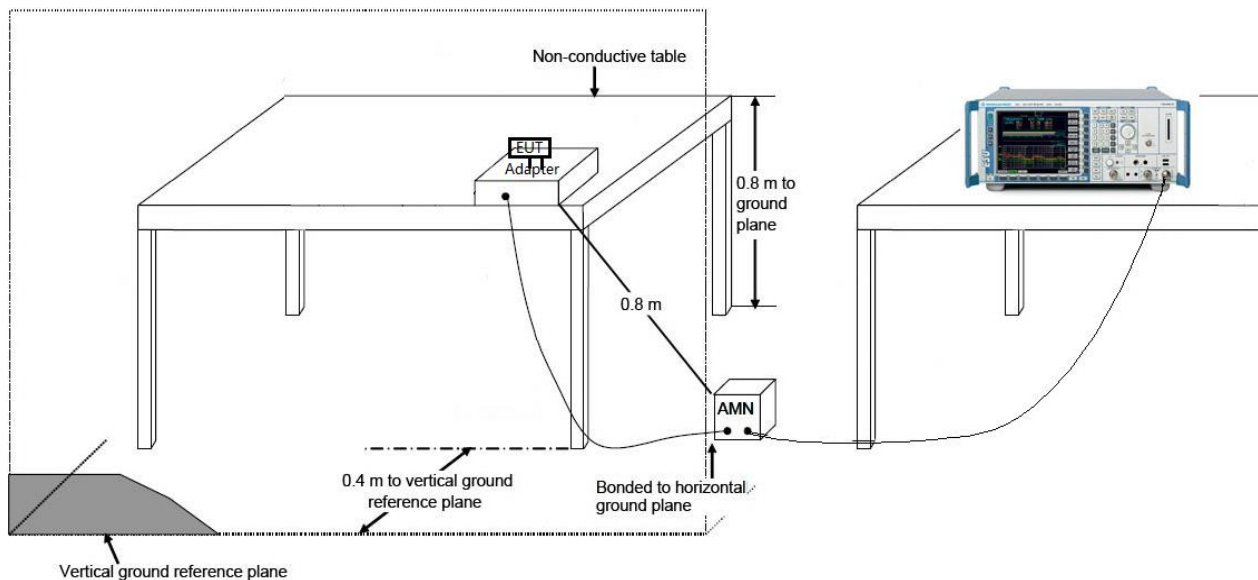
### 7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

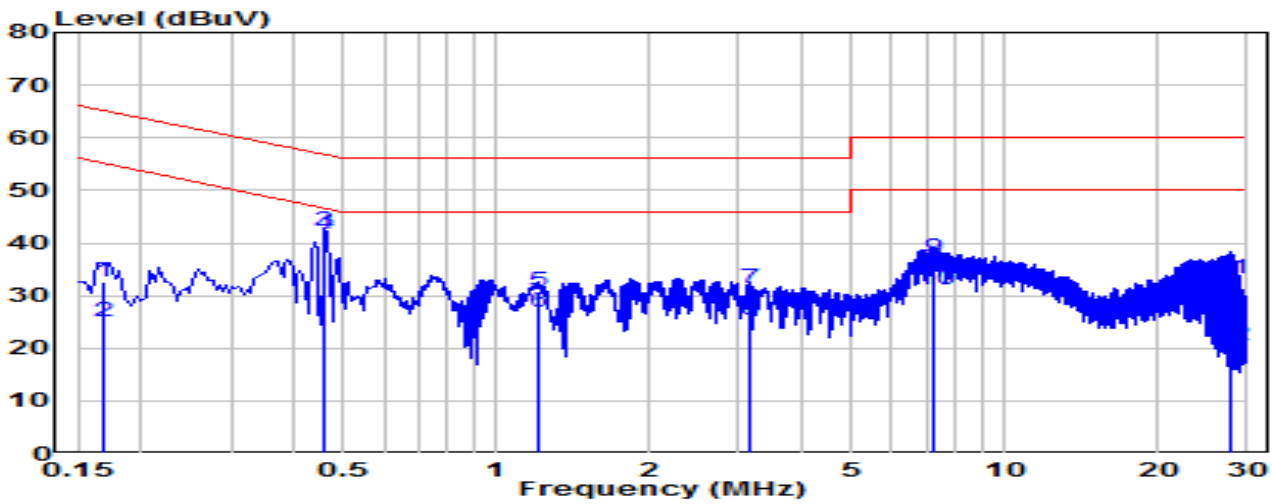
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.8.2. Test Setup



### 7.8.3. Test Result

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-31
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	25.3°C /47%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz

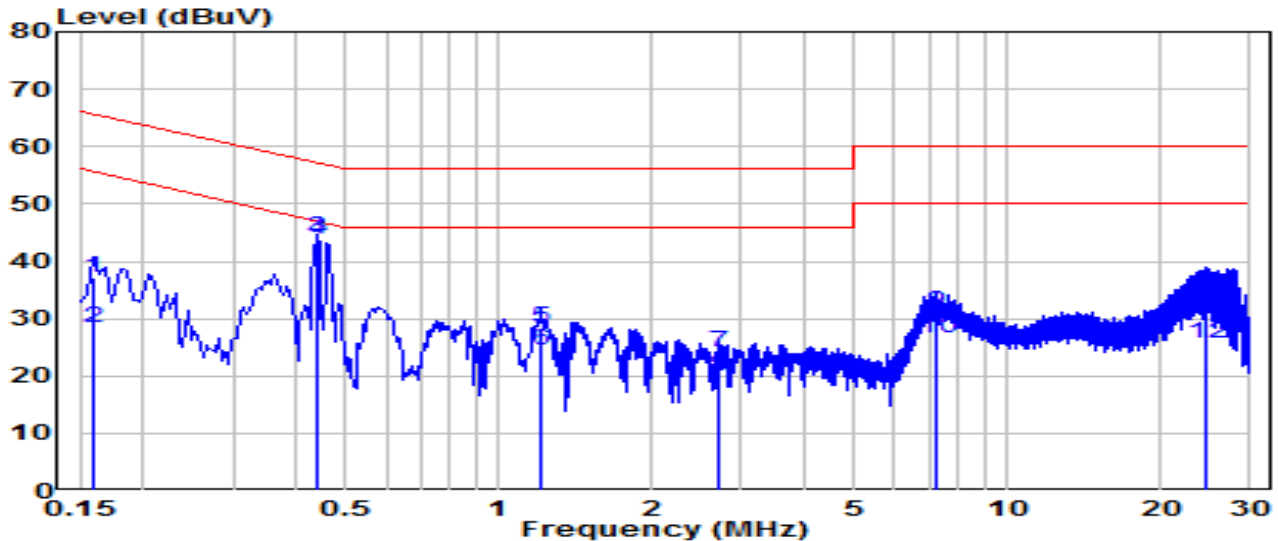


No	Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV)	Margin (dB)	Limit (dBUV)	Remark (QP/PK/AV)
1	0.168	22.96	9.62	32.58	-32.48	65.06	QP
2	0.168	15.37	9.62	24.99	-30.07	55.06	Average
3	* 0.460	32.64	9.64	42.28	-14.41	56.68	QP
4	* 0.460	32.09	9.64	41.73	-4.96	46.68	Average
5	1.203	21.05	9.67	30.72	-25.28	56.00	QP
6	1.203	17.18	9.67	26.86	-19.14	46.00	Average
7	3.169	21.71	9.71	31.42	-24.58	56.00	QP
8	3.169	15.51	9.71	25.23	-20.77	46.00	Average
9	7.219	27.22	9.80	37.01	-22.99	60.00	QP
10	7.219	21.28	9.80	31.07	-18.93	50.00	Average
11	27.687	23.43	9.92	33.35	-26.65	60.00	QP
12	27.687	10.73	9.92	20.64	-29.36	50.00	Average

Note:

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

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-31
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	25.3°C /47%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 120V/60Hz

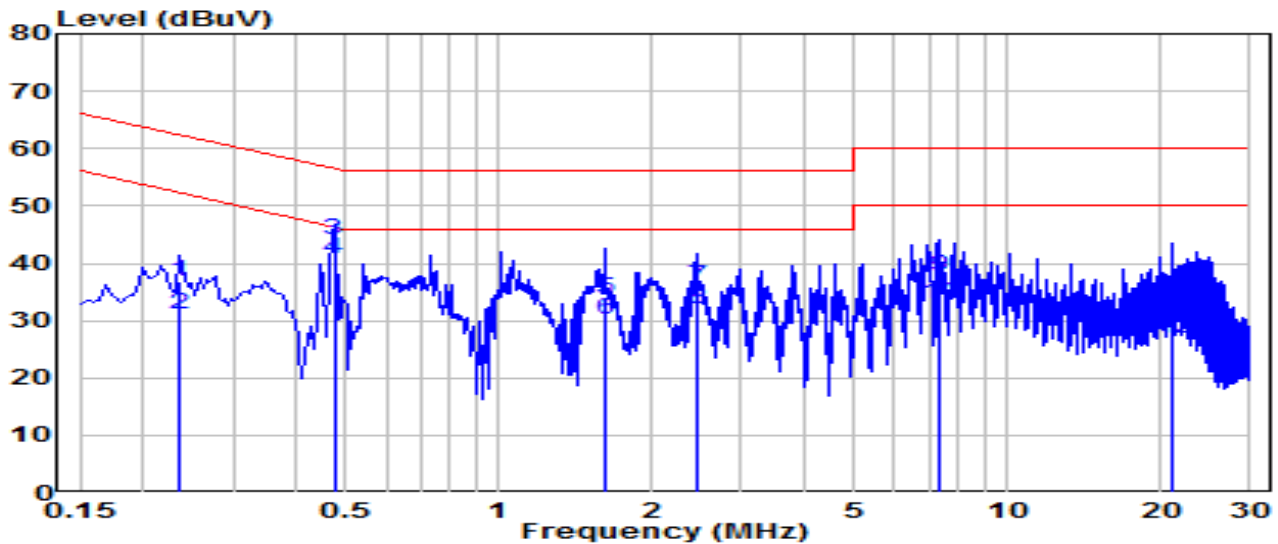


No	Frequency (MHz)	Reading (dBUV)	C.F (dB)	Measurement (dBUV)	Margin (dB)	Limit (dBUV)	Remark (QP/PK/AV)
1	0.159	27.38	9.62	37.00	-28.52	65.52	QP
2	0.159	18.82	9.62	28.44	-27.08	55.52	Average
3	* 0.438	34.50	9.64	44.14	-12.96	57.10	QP
4	* 0.438	34.10	9.64	43.74	-3.36	47.10	Average
5	1.207	18.59	9.67	28.27	-27.73	56.00	QP
6	1.207	14.89	9.67	24.56	-21.44	46.00	Average
7	2.701	14.30	9.70	24.01	-31.99	56.00	QP
8	2.701	10.35	9.70	20.05	-25.95	46.00	Average
9	7.214	21.38	9.80	31.18	-28.82	60.00	QP
10	7.214	16.66	9.80	26.46	-23.54	50.00	Average
11	24.488	23.52	10.01	33.53	-26.47	60.00	QP
12	24.488	15.53	10.01	25.54	-24.46	50.00	Average

Note:

- " \*", means this data is the worst emission level.
- C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
- Measurement (dBUV) = Reading(dBUV) + C.F (Correction Factor).

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-31
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	25.3°C /47%
Polarity	Line1	Site / Test Engineer	SR2 / Bob
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 240V/60Hz

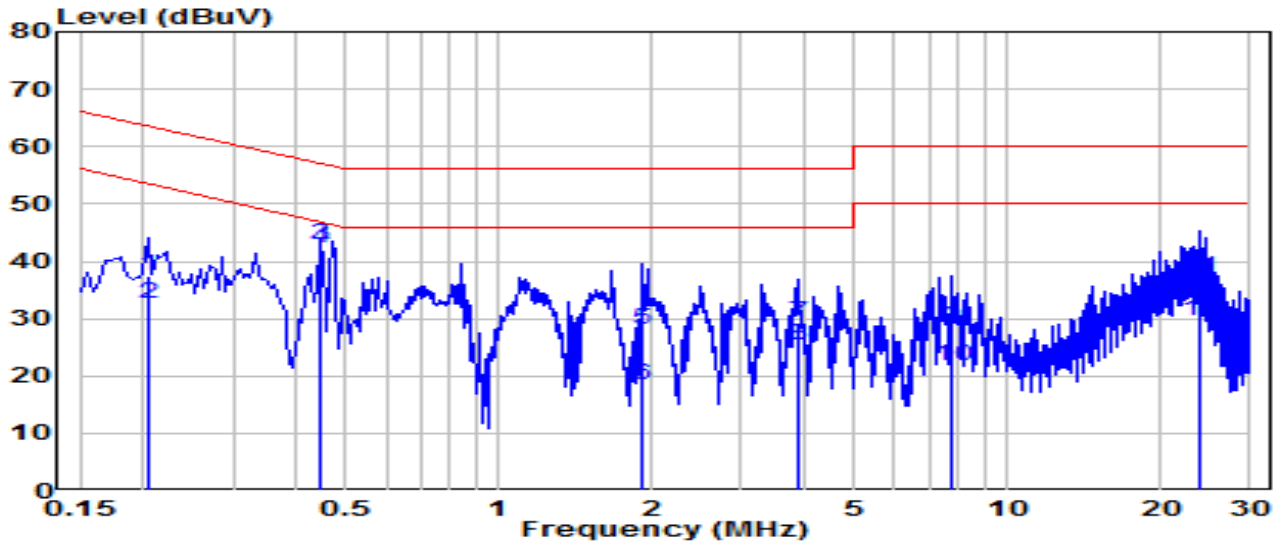


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.235	27.12	9.62	36.75	-25.51	62.25	QP
2	0.235	21.43	9.62	31.05	-21.20	52.25	Average
3	* 0.474	34.53	9.64	44.17	-12.27	56.44	QP
4	* 0.474	31.26	9.64	40.90	-5.55	46.44	Average
5	1.617	24.26	9.68	33.94	-22.06	56.00	QP
6	1.617	20.54	9.68	30.23	-15.77	46.00	Average
7	2.445	26.23	9.70	35.92	-20.08	56.00	QP
8	2.445	22.35	9.70	32.04	-13.96	46.00	Average
9	7.313	27.90	9.80	37.69	-22.31	60.00	QP
10	7.313	22.97	9.80	32.76	-17.24	50.00	Average
11	21.082	23.74	9.93	33.66	-26.34	60.00	QP
12	21.082	17.00	9.93	26.93	-23.07	50.00	Average

Note:

- "\*" means this data is the worst emission level.
- C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
- Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	AX1800 Ceiling Mount Wi-Fi 6 Access Point	Date of Test	2023-07-31
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	25.3°C /47%
Polarity	Neutral	Site / Test Engineer	SR2 / Bob
Test Mode	BLE_TX_1Mbps_CH 19	Test Voltage	AC 240V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.204	27.68	9.62	37.30	-26.14	63.45	QP
2	0.204	22.91	9.62	32.54	-20.91	53.45	Average
3	* 0.447	33.13	9.64	42.77	-14.16	56.93	QP
4	* 0.447	32.73	9.64	42.36	-4.57	46.93	Average
5	1.918	18.39	9.69	28.08	-27.92	56.00	QP
6	1.918	8.74	9.69	18.43	-27.57	46.00	Average
7	3.898	19.59	9.73	29.31	-26.69	56.00	QP
8	3.898	15.77	9.73	25.50	-20.50	46.00	Average
9	7.786	18.51	9.82	28.32	-31.68	60.00	QP
10	7.786	11.92	9.82	21.73	-28.27	50.00	Average
11	23.822	27.09	10.01	37.10	-22.90	60.00	QP
12	23.822	19.54	10.01	29.55	-20.45	50.00	Average

Note:

- "\*", means this data is the worst emission level.
- C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
- Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).



## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15C of the FCC Rules.

## **Appendix A : Test Photograph**

Refer to “2307TW0115-UT” file.

## **Appendix B : External Photograph**

Refer to “2307TW0115-UE” file.

## **Appendix C : Internal Photograph**

Refer to “2307TW0115-UI” file.

————— The End —————