





# RF MEASUREMENT REPORT

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**FCC ID:** Q9DAPIN0615  
**Applicant:** Hewlett Packard Enterprise Company  
**Product:** ACCESS POINT  
**Model No.:** APIN0615  
**Marketing Name:** AP32  
**Trademark:**  ,   
**FCC Classification:** Unlicensed National Information Infrastructure (NII)  
**FCC Rule Part(s):** Part 15 Subpart E (Section 15.407)  
**Result:** Complies  
**Received Date:** 2023-08-25  
**Test Date:** 2023-10-23 ~ 2023-12-29

**Reviewed By:**

\_\_\_\_\_  
Jame Yuan

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033 and KDB 291074. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

### Revision History

| Report No.    | Version | Description              | Issue Date | Note    |
|---------------|---------|--------------------------|------------|---------|
| 2308RSU066-U5 | V01     | Initial Report           | 2023-11-18 | Invalid |
| 2308RSU066-U5 | V02     | Add spot check test data | 2024-01-05 | Valid   |
|               |         |                          |            |         |

Note 1: The product is a variation on the existing APIN0615 that had FCC approval (FCC ID: Q9DAPIN0615).

The differences are shown in the table below.

| Parts of Product | Modification   |
|------------------|--|
| Top cover        | Change ION style look.                               |
| Bottom Cover     | Yes, Changed Painted white                           |
| Light pipe       | Yes, Changed. Move to the edge for consistent ION ID |
| USB Port         | Removed  |
| Antenna          | Remove BLE/ZigBee/GPS Antenna                        |
| PCB              | Remove BLE/ZigBee/GPS chipset and match circuit      |

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

| Frequency Range<br>(MHz) | Original Wi-Fi Antenna Gain | Current Wi-Fi Antenna Gain |
|--------------------------|-----------------------------|----------------------------|
|                          | (dBi)                       | (dBi)                      |
| 2400 ~ 2480(Radio 0)     | 2.0                         | 1.5                        |
| 2400 ~ 2480(Radio 1)     | 0.6                         | 1.6                        |
| 5150 ~ 5895              | 3.8                         | 3.8                        |
| 5925 ~ 7125              | 3.5                         | 3.9                        |

Note 2: Most test data refer to original test report no. 2108RSU088-U1. Spot-check tests were done on these items based on worst-case results reported in the original FCC ID filing.

| Test Description                         | Verdict                          |
|--|----------------------------------|
| Occupied Bandwidth                       | Data referencing with spot check |
| Output Power                             | Data referencing with spot check |
| Peak Power Spectral Density              | Data referencing with spot check |
| Radiated Spurious Emission and Band Edge | Data referencing with spot check |
| AC Conducted Emissions 150kHz - 30MHz    | Full test                        |

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## 1. General Information

### 1.1. Applicant

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

### 1.2. Manufacturer

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

### 1.3. Testing Facility

|  |  |
|--|--|
| <input checked="" type="checkbox"/>  | <b>Test Site – MRT Suzhou Laboratory</b>   |
| <b>Laboratory Location (Suzhou - Wuzhong)</b>  |  |
| D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China   |  |
| <b>Laboratory Location (Suzhou - SIP)</b>  |  |
| 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China   |  |
| <b>Laboratory Accreditations</b>   |  |
| A2LA: 3628.01 <span style="float: right;">CNAS: L10551</span>  |  |
| FCC: CN1166 <span style="float: right;">ISED: CN0001</span>  |  |
| VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020                          |  |
| <span style="float: right;"><input type="checkbox"/>R-20141 <input type="checkbox"/>G-20134 <input type="checkbox"/>C-20103 <input type="checkbox"/>T-20104</span> |  |
| <input type="checkbox"/>   | <b>Test Site – MRT Shenzhen Laboratory</b> |
| <b>Laboratory Location (Shenzhen)</b>  |  |
| 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China  |  |
| <b>Laboratory Accreditations</b>   |  |
| A2LA: 3628.02 <span style="float: right;">CNAS: L10551</span>  |  |
| FCC: CN1284 <span style="float: right;">ISED: CN0105</span>  |  |
| <input type="checkbox"/>   | <b>Test Site – MRT Taiwan Laboratory</b>   |
| <b>Laboratory Location (Taiwan)</b>  |  |
| No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)   |  |
| <b>Laboratory Accreditations</b>   |  |
| TAF: 3261  |  |
| FCC: 291082, TW3261 <span style="float: right;">ISED: TW3261</span>  |  |

#### 1.4. Product Information

|  |   |
|--|---|
| Product Name   | ACCESS POINT  |
| Model No.  | APIN0615  |
| Marketing Name:  | AP32  |
| Serial No.   | CNQSM1H00H  |
| Software Version   | v0.1.12   |
| Wi-Fi Specification  | 802.11a/b/g/n/ac/ax   |
| Power Type   | AC Adapter or PoE Injector input  |
| Operating Temp.  | 0 ~ 50 °C   |
| Operating Environment  | Indoor Use  |
| Accessories  |   |
| AC/DC Adapter  | Model: WB-18Q12R<br>Input: 100-240V ~ 50/60Hz, 0.5A Max<br>Output: 12.0V, 1.5A, 18W |
| PoE Injector   | Model: ADH-30CR BB<br>Input: 100-240V ~ 1.0A 50-60Hz<br>Output: 55V, 0.55A 30.25W   |
| Remark:  |   |
| 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. |   |
| 2. AC Power Adapter and PoE Injector are not sold with Product.  |   |

#### 1.5. Radio Specification under Test

|                             |   |   |
|-----------------------------|---|---|
| Frequency Range             | For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5845MHz, 5865MHz, 5885MHz<br>For 802.11n-HT40/ac-VHT40/ax-HE40: 5835MHz, 5875MHz<br>For 802.11ac-VHT80/ax-HE80: 5855MHz<br>For 802.11ac-VHT160/ax-HE160: 5815MHz |   |
| Type of Modulation          | 802.11a/n/ac: OFDM<br>802.11ax: OFDMA   |   |
| Data Rate                   | 802.11a: 6/9/12/18/24/36/48/54Mbps<br>802.11n: up to 300Mbps<br>802.11ac: up to 1733.4Mbps<br>802.11ax: up to 2402Mbps  |   |
| Channel Puncturing Function | <input type="checkbox"/> Supported  | <input checked="" type="checkbox"/> Unsupported |
| Support RU                  | <input checked="" type="checkbox"/> Full RU   | <input type="checkbox"/> Partial RU             |

### 1.6. Working Frequencies

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

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

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

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

#### 802.11ac-VHT80/ax-HE80

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

#### 802.11ac-VHT160/ax-HE160

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

### 1.7. Antenna Details

| Antenna Type | Frequency Band (MHz)  | Tx Paths | Uncorrelated Gain (dBi) | Correlated Gain (dBi) |
|--------------|-----------------------|----------|-------------------------|-----------------------|
| PIFA         | 2412 ~ 2462 (Radio 0) | 2        | 1.5                     | 4.4                   |
| PIFA         | 2412 ~ 2462 (Radio 1) | 2        | 1.6                     | 4.5                   |
| PIFA         | 5150 ~ 5895           | 2        | 3.8                     | 6.8                   |
| PIFA         | 5925 ~ 7125           | 2        | 3.9                     | 6.9                   |

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 gain calculation refers to antenna report provided by the applicant.



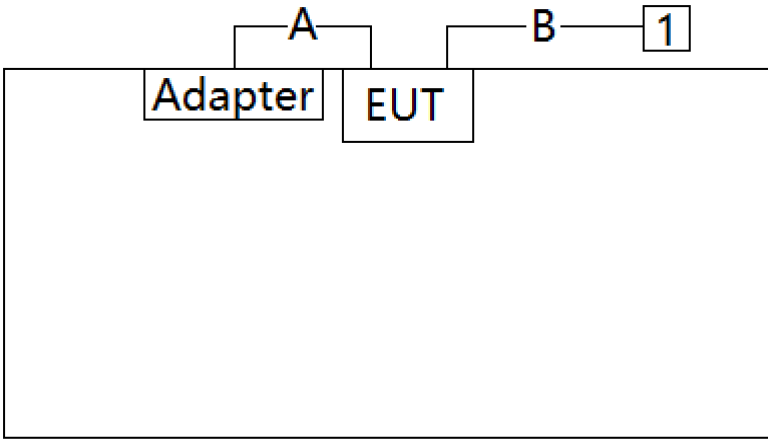
## 2. Test Configuration

### 2.1. Test Mode

|  |
|--|
| Mode 1: Transmit by 802.11a_Nss=1 (6Mbps)        |
| Mode 2: Transmit by 802.11ac-VHT20_Nss=1 (MCS0)  |
| Mode 3: Transmit by 802.11ac-VHT40_Nss=1 (MCS0)  |
| Mode 4: Transmit by 802.11ac-VHT80_Nss=1 (MCS0)  |
| Mode 5: Transmit by 802.11ac-VHT160_Nss=1 (MCS0) |
| Mode 6: Transmit by 802.11ax-HE20_Nss=1 (MCS0)   |
| Mode 7: Transmit by 802.11ax-HE40_Nss=1 (MCS0)   |
| Mode 8: Transmit by 802.11ax-HE80_Nss=1 (MCS0)   |
| Mode 9: Transmit by 802.11ax-HE160_Nss=1 (MCS0)  |

Note: These test modes (worst case) are from the original report.

### 2.2. Test System Connection Diagram

| Connection Diagram   |             |                    |           |
|--|-------------|--------------------|-----------|
|  |             |                    |           |
| Cable Type   |             | Cable Description  |           |
| A  | Power Cable | Non shielded, 2.0m |           |
| B  | LAN Cable   | Non shielded, 3.0m |           |
| Product  |             | Manufacturer       | Model No. |
| 1  | Notebook    | ThinkPad           | E495      |

### 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 291074 D02v01
- KDB 662911 D01v02r01
- ANSI C63.10-2013

#### 2.5. Test Environment Condition

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

### 3. Antenna Requirements

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

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

#### 4. Measuring Instrument

| Instrument Name     | Manufacturer | Model No.   | Asset No.   | Cali. Interval | Cal. Due Date | Test Site |
|---------------------|--------------|-------------|-------------|----------------|---------------|-----------|
| EMI Test Receiver   | R&S          | ESR3        | MRTSUE06185 | 1 year         | 2023-12-28    | SIP-AC1   |
|                     |              |             |             | 1 year         | 2024-12-17    | SIP-AC1   |
| Anechoic Chamber    | RIKEN        | SIP-AC1     | MRTSUE06554 | 1 year         | 2023-12-22    | SIP-AC1   |
|                     |              |             |             | 1 year         | 2024-12-21    | SIP-AC1   |
| Signal Analyzer     | Keysight     | N9010B      | MRTSUE06559 | 1 year         | 2024-05-23    | SIP-AC1   |
| Horn Antenna        | Schwarzbeck  | BBHA 9170   | MRTSUE06599 | 1 year         | 2024-09-24    | SIP-AC1   |
| Preamplifier        | EMCI         | EMC051845SE | MRTSUE06600 | 1 year         | 2023-11-07    | SIP-AC1   |
|                     |              |             |             | 1 year         | 2024-11-02    | SIP-AC1   |
| Preamplifier        | EMCI         | EMC184045SE | MRTSUE06602 | 1 year         | 2024-10-09    | SIP-AC1   |
| Signal Analyzer     | Keysight     | N9010B      | MRTSUE06603 | 1 year         | 2024-09-27    | SIP-AC1   |
| Horn Antenna        | R&S          | HF907       | MRTSUE06610 | 1 year         | 2024-06-17    | SIP-AC1   |
| Thermohygrometer    | testo        | 608-H1      | MRTSUE06616 | 1 year         | 2023-11-01    | SIP-AC1   |
|                     |              |             |             | 1 year         | 2024-10-28    | SIP-AC1   |
| Preamplifier        | EMCI         | EMC001330   | MRTSUE06643 | 1 year         | 2024-01-12    | SIP-AC1   |
| TRILOG Antenna      | Schwarzbeck  | VULB 9168   | MRTSUE06645 | 1 year         | 2024-07-13    | SIP-AC1   |
| Loop Antenna        | Schwarzbeck  | FMZB 1519 B | MRTSUE06937 | 1 year         | 2024-02-26    | SIP-AC1   |
| Signal Analyzer     | Keysight     | N9010B      | MRTSUE07028 | 1 year         | 2024-10-23    | SIP-AC1   |
| Temperature Chamber | BAOYT        | BYG-408CS   | MRTSUE06847 | 1 year         | 2024-02-12    | SIP-TR1   |
| Thermohygrometer    | testo        | 608-H1      | MRTSUE11022 | 1 year         | 2024-10-28    | SIP-TR1   |
| USB Power Sensor    | Keysight     | U2021XA     | MRTSUE06596 | 1 year         | 2024-07-31    | SIP-TR1   |
| Signal Analyzer     | Keysight     | N9010B      | MRTSUE07036 | 1 year         | 2024-02-29    | SIP-TR1   |
| Two-Line V-Network  | R&S          | ENV216      | MRTSUE06003 | 1 year         | 2024-05-23    | SIP-SR2   |
| EMI Test Receiver   | R&S          | ESR3        | MRTSUE06612 | 1 year         | 2024-05-23    | SIP-SR2   |
| Four-Line V-Network | R&S          | ENV432      | MRTSUE06614 | 1 year         | 2024-10-23    | SIP-SR2   |
| Thermohygrometer    | testo        | 608-H1      | MRTSUE06621 | 1 year         | 2024-11-03    | SIP-SR2   |
| Shielding Room      | MIX-BEP      | SIP-SR2     | MRTSUE06949 | 5 years        | 2024-10-23    | SIP-SR2   |

| Software             | Version | Function               |
|----------------------|---------|------------------------|
| EMI Software         | V3.0.0  | EMI Test Software      |
| Controller_MF 7802BS | 1.02    | RE Antenna & Turntable |
| BenchVue Power Meter | 2019    | 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  $k = 2$ .

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

## 6. Test Result

### 6.1. Summary

| FCC Section(s)                              | Test Description   | Test Condition | Verdict |
|---|--|----------------|---------|
| 15.407(a)                                   | 26dB Bandwidth   | Conducted      | Pass    |
| 15.407(e)                                   | 6dB Bandwidth  |                | Pass    |
| 15.407(a)(3)(ii)                            | Maximum Conducted Output Power   |                | Pass    |
| 15.407(a)(3)(ii)(12)                        | Peak Power Spectral Density  |                | Pass    |
| 15.407(b)(5)                                | Undesirable Emissions  | Radiated       | Pass    |
| 15.205, 15.209<br>15.407(b)(5)(i), (8), (9) | General Field Strength Limits<br>(Restricted Bands and Radiated Emission Limits) |                | Pass    |
| 15.207                                      | AC Conducted Emissions<br>150kHz - 30MHz   | Line Conducted | Pass    |

Note: For Radiated Spurious Emission and Radiated Restricted Band Edge, the EUT setup for testing is determined by the original report.

## 6.2. 26dB & 99% Bandwidth Measurement

### 6.2.1. Test Limit

N/A

### 6.2.2. Test Procedure

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

KDB 789033 D02v02r01- Section D (99% Bandwidth)

### 6.2.3. Test Setting

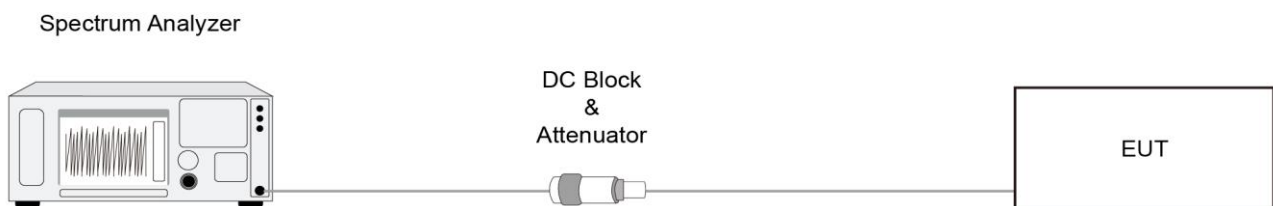
#### 26dB Bandwidth

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

#### 99% Bandwidth

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

### 6.2.4. Test Setup



### 6.2.5. Test Result

Refer to Appendix A.2.



### 6.3. 6dB Bandwidth Measurement

#### 6.3.1. Test Limit

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

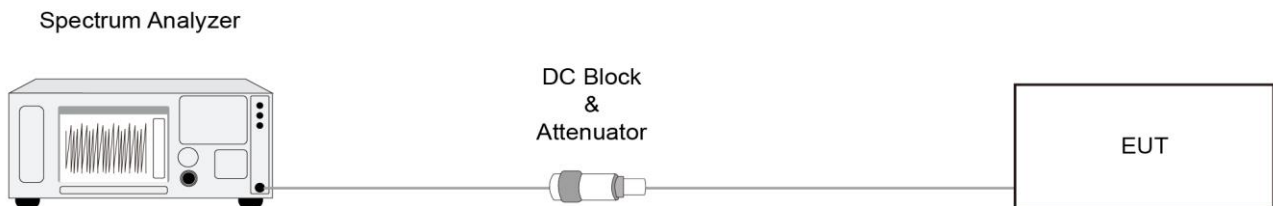
#### 6.3.2. Test Procedure

KDB 789033 D02v02r01- Section C.2

#### 6.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 6.3.4. Test Setup



#### 6.3.5. Test Result

Refer to Appendix A.3.

## 6.4. Output Power Measurement

### 6.4.1. Test Limit

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

### 6.4.2. Test Procedure

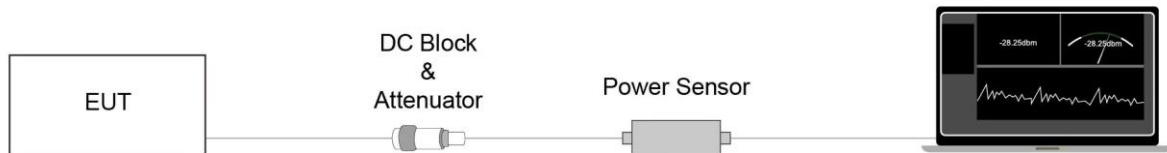
KDB 789033D02v02r01- Section E)3)b) Method PM-G

### 6.4.3. Test Setting

#### Average Power Measurement

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

### 6.4.4. Test Setup



### 6.4.5. Test Result

Refer to Appendix A.4.

## 6.5. Power Spectral Density Measurement

### 6.5.1. Test Limit

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

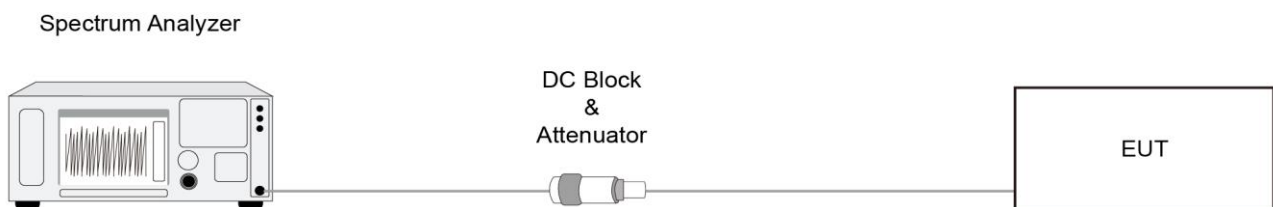
### 6.5.2. Test Procedure

KDB 789033 D02v02r01-SectionF

### 6.5.3. Test Setting

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

### 6.5.4. Test Setup



### 6.5.5. Test Result

Refer to Appendix A.5.

## 6.6. Frequency Stability Measurement

### 6.6.1. Test Limit

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

### 6.6.2. Test Procedure

#### Frequency Stability Under Temperature Variations:

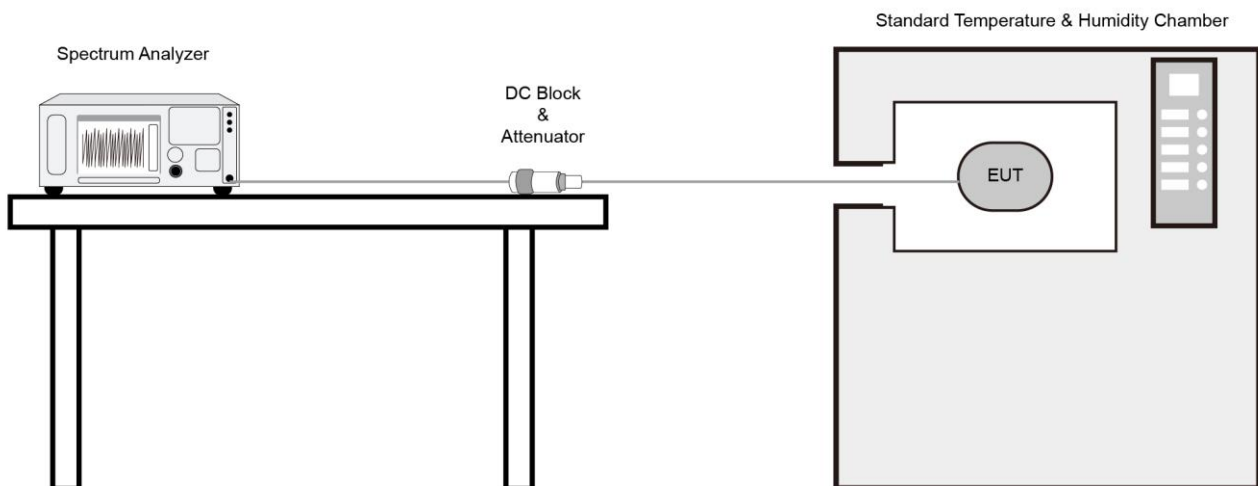
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain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

#### Frequency Stability Under Voltage Variations:

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

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

### 6.6.3. Test Setup



#### **6.6.4. Test Result**

Refer to Appendix A.6.

## 6.7. Radiated Spurious Emission Measurement

### 6.7.1. Test Limit

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

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

### 6.7.2. Test Procedure

KDB 789033 D02v02r01- Section G.

### 6.7.3. Test Setting

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

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

#### **Quasi-Peak Measurements below 1GHz**

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

#### **Peak Measurements above 1GHz**

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

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

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

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

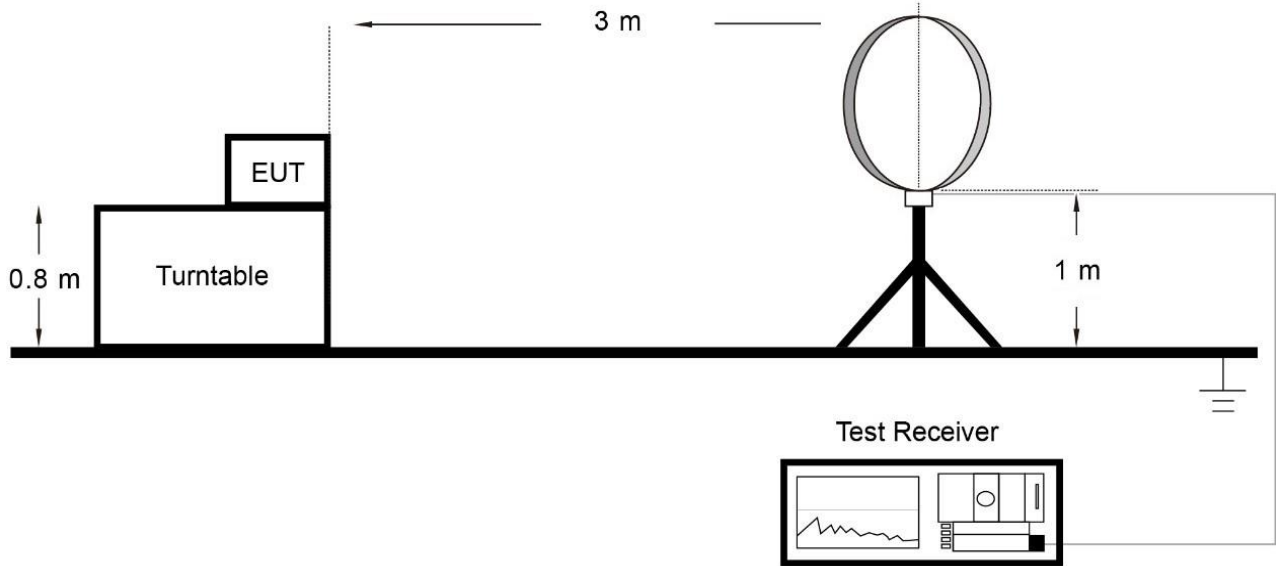
|                 |              |                |              |
|-----------------|--------------|----------------|--------------|
| 802.11a         | VBW = 470Hz  | 802.11ax-HE20  | VBW = 680Hz  |
| 802.11ac-VHT20  | VBW = 510Hz  | 802.11ax-HE40  | VBW = 1.3kHz |
| 802.11ac-VHT40  | VBW = 1.1kHz | 802.11ax-HE80  | VBW = 2.4kHz |
| 802.11ac-VHT80  | VBW = 2.2kHz | 802.11ax-HE160 | VBW = 4.3kHz |
| 802.11ac-VHT160 | VBW = 3.9kHz |                |              |

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

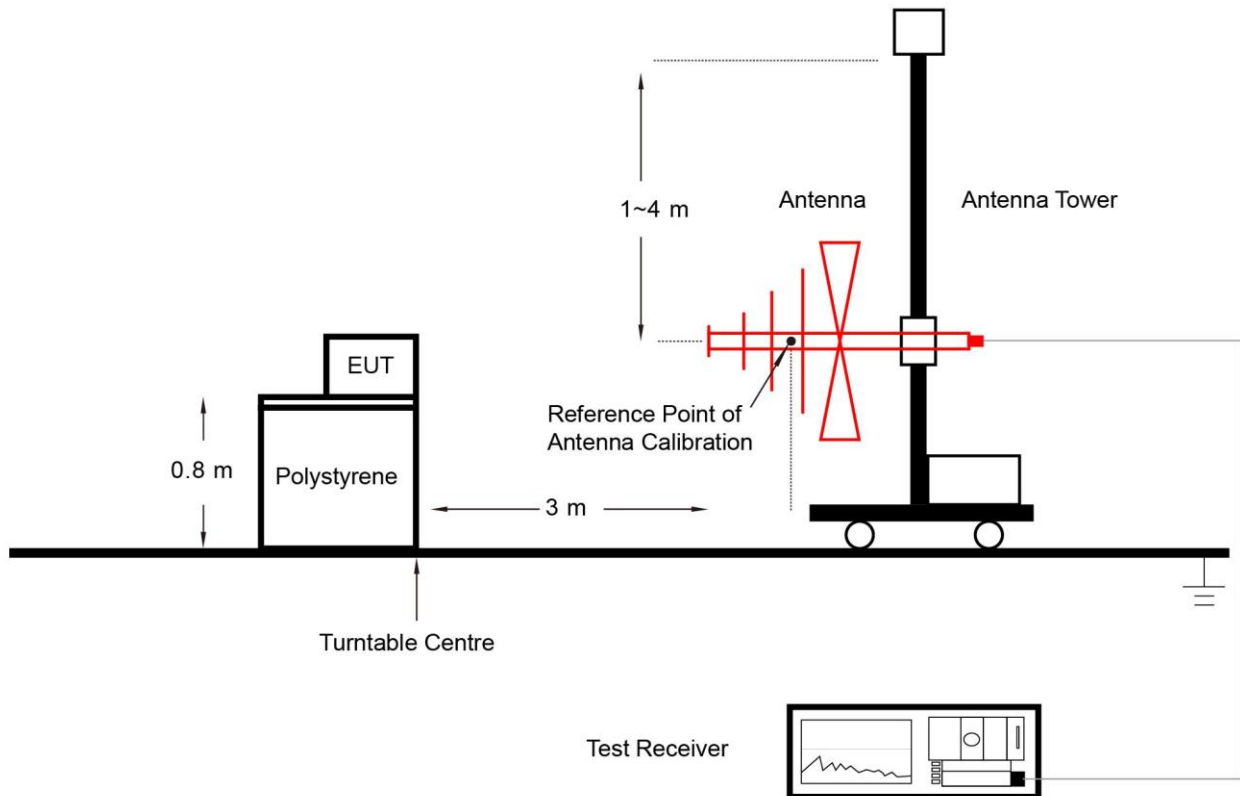


### 6.7.4. Test Setup

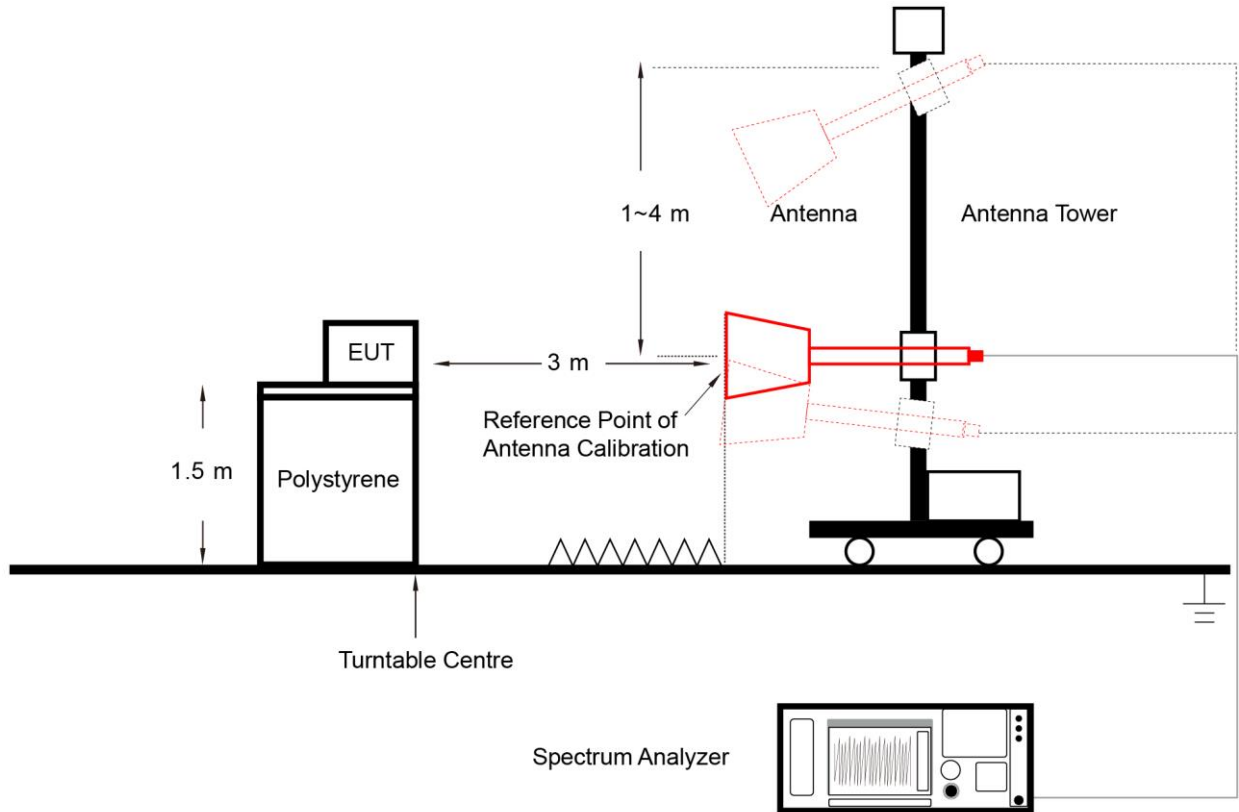
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



**6.7.5. Test Result**

Refer to Appendix A.7.

## 6.8. Radiated Restricted Band Edge Measurement

### 6.8.1. Test Limit

#### For 15.205 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<br>(MHz)         | Frequency<br>(MHz)    | Frequency<br>(MHz) | Frequency<br>(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              | --                    | --                 | --                 |

For 15.407(b) requirement:

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.

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

For indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

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

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<br>[MHz]                     | Field Strength<br>[uV/m] | Measured Distance<br>[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                             |

### 6.8.2. Test Procedure

KDB 789033 D02v02r01- Section G

### 6.8.3. Test Setting

#### Peak Measurements above 1GHz

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

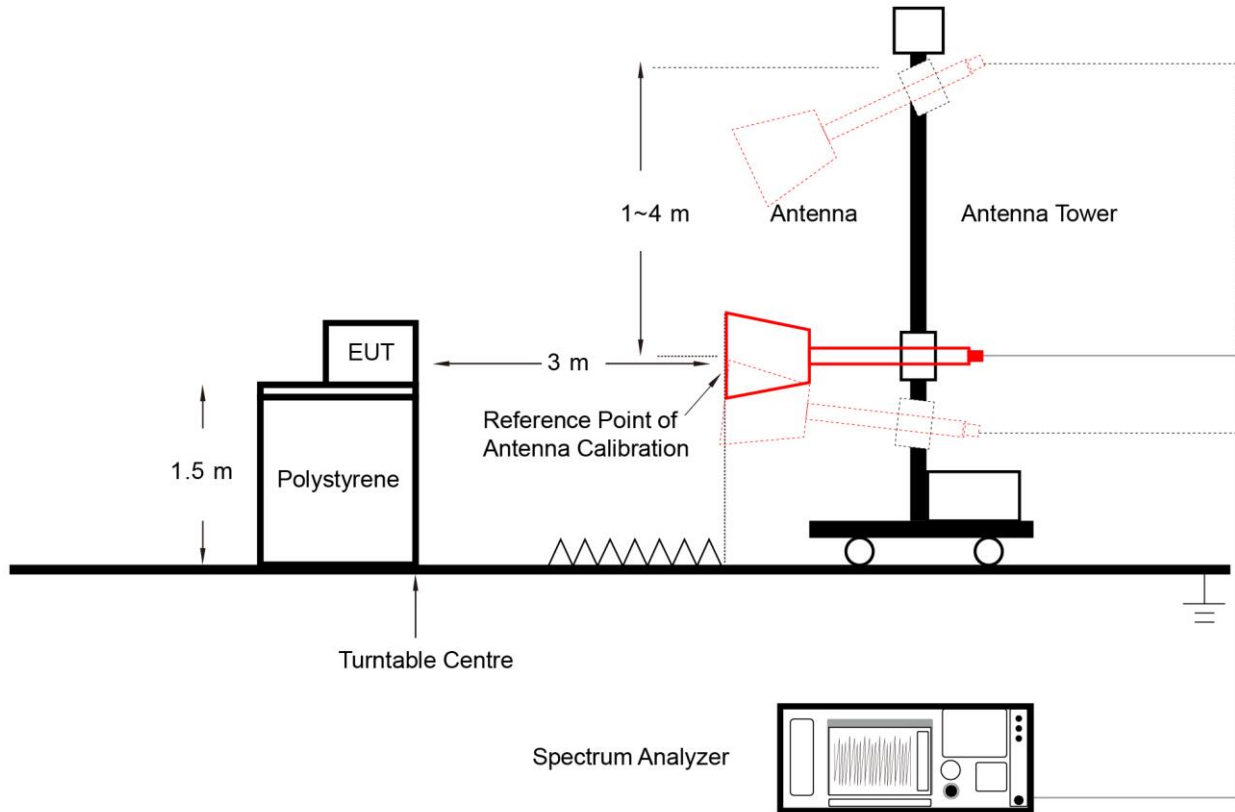
#### Average Measurements above 1GHz (Method VB)

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

|                 |              |                |              |
|-----------------|--------------|----------------|--------------|
| 802.11a         | VBW = 470Hz  | 802.11ax-HE20  | VBW = 680Hz  |
| 802.11ac-VHT20  | VBW = 510Hz  | 802.11ax-HE40  | VBW = 1.3kHz |
| 802.11ac-VHT40  | VBW = 1.1kHz | 802.11ax-HE80  | VBW = 2.4kHz |
| 802.11ac-VHT80  | VBW = 2.2kHz | 802.11ax-HE160 | VBW = 4.3kHz |
| 802.11ac-VHT160 | VBW = 3.9kHz |                |              |

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

### 6.8.4. Test Setup



### 6.8.5. Test Result

Refer to Appendix A.8.

## 6.9. AC Conducted Emissions Measurement

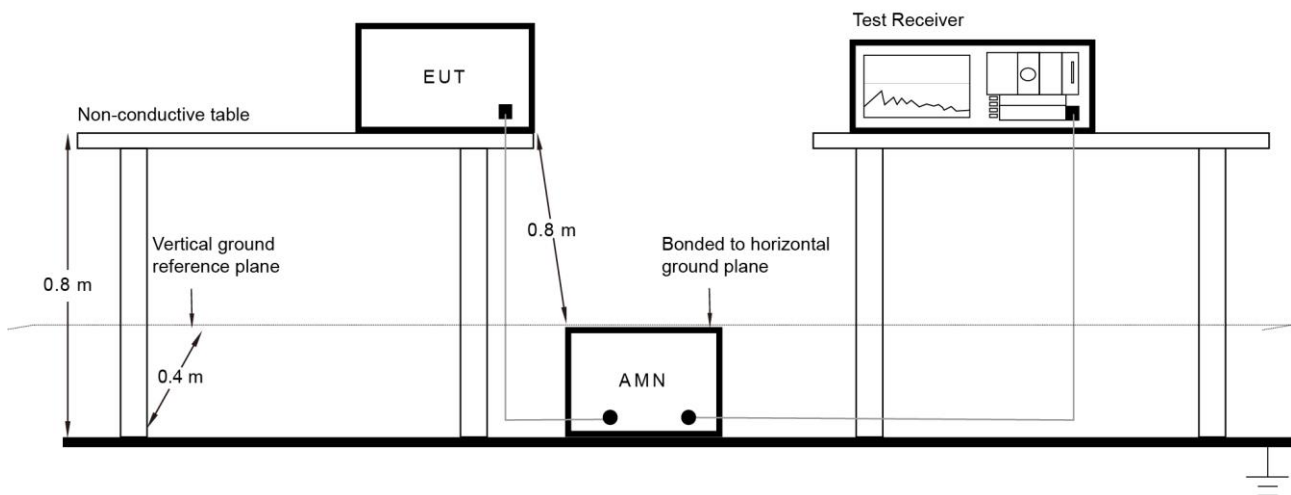
### 6.9.1. Test Limit

| FCC Part 15.207 Limits |           |           |
|------------------------|-----------|-----------|
| Frequency (MHz)        | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50            | 66 - 56   | 56 - 46   |
| 0.50 - 5.0             | 56        | 46        |
| 5.0 - 30               | 60        | 50        |

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

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

### 6.9.2. Test Setup



### 6.9.3. Test Result

Refer to Appendix A.9.

## **Appendix A – Test Result**

### **A.1 Duty Cycle Test Result**

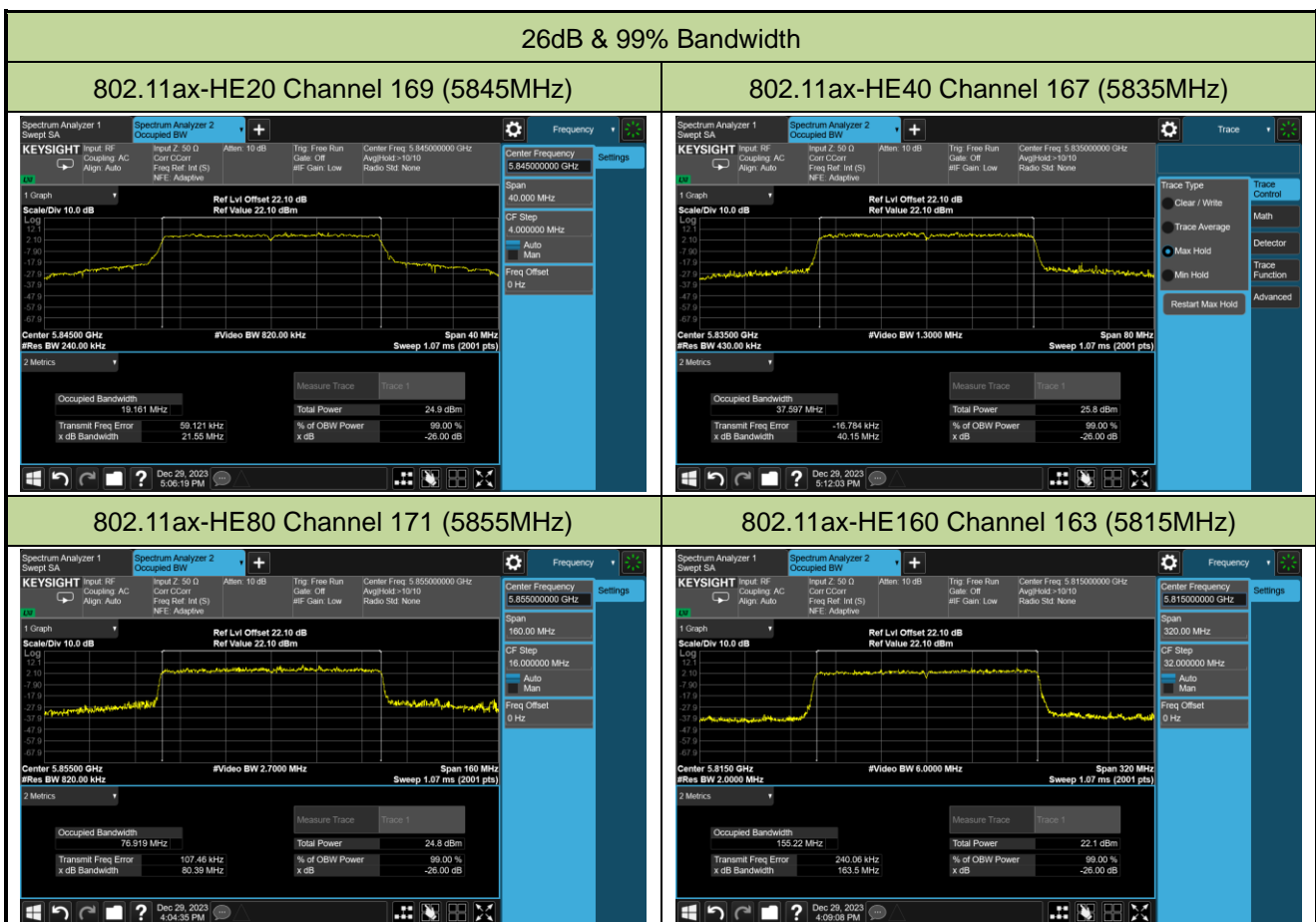
Refer to MRT report no. 2108RSU088-U1 Appendix A.1.



**A.2 26dB & 99% Bandwidth Test Result**

|           |            |               |            |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1    | Test Engineer | Alisa Deng |
| Test Date | 2023-12-29 |               |            |
| Remark    | Spot Check |               |            |

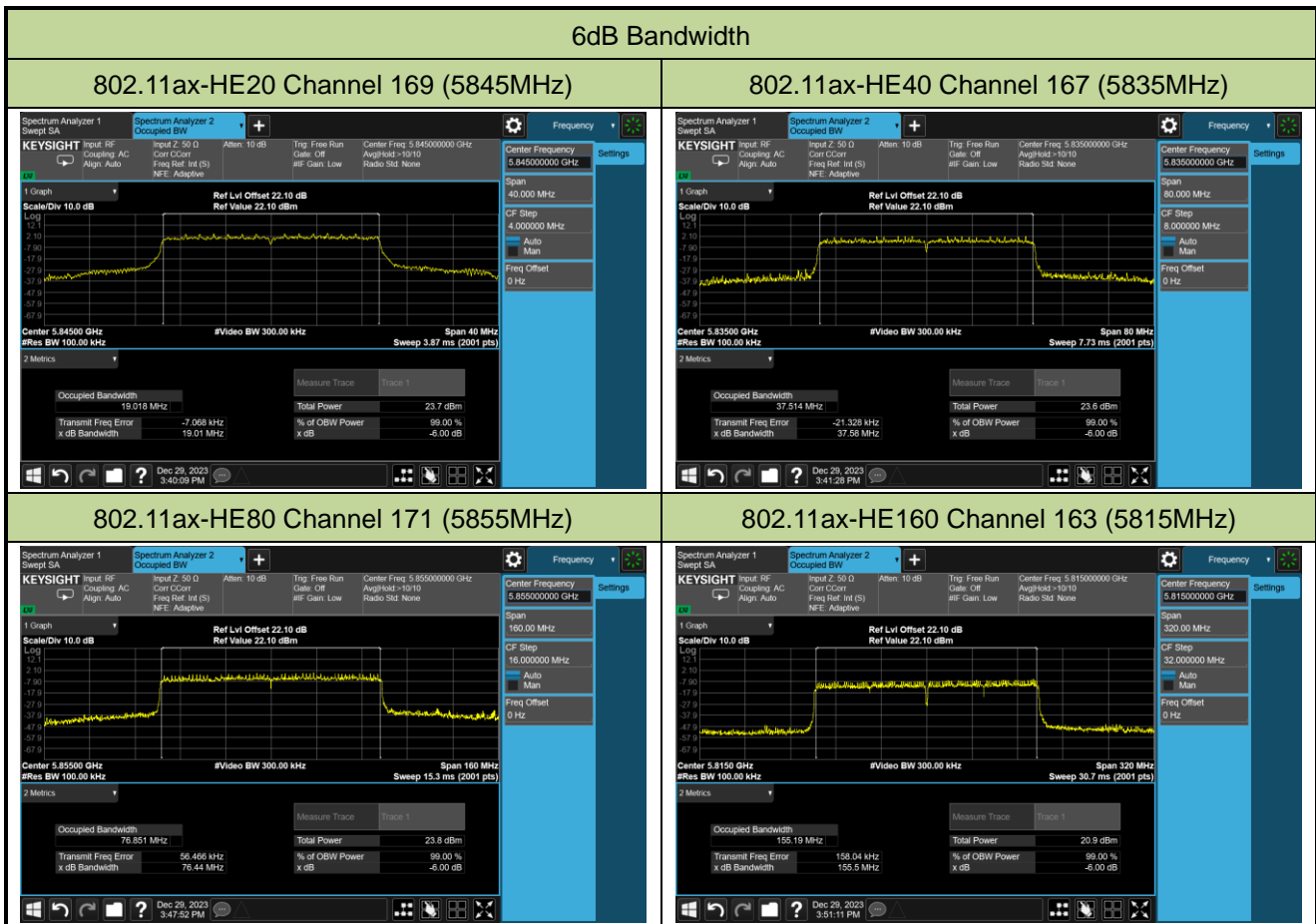
| Test Mode  | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) |
|------------|-------------------|-------------|--------------------|-------------------------|------------------------|
| 11ax-HE20  | MCS0              | 169         | 5845               | 21.55                   | 19.161                 |
| 11ax-HE40  | MCS0              | 167         | 5835               | 40.15                   | 37.597                 |
| 11ax-HE80  | MCS0              | 171         | 5855               | 80.39                   | 76.919                 |
| 11ax-HE160 | MCS0              | 163         | 5815               | 163.50                  | 155.22                 |



**A.3 6dB Bandwidth Test Result**

|           |            |               |            |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1    | Test Engineer | Alisa Deng |
| Test Date | 2023-12-29 |               |            |
| Remark    | Spot Check |               |            |

| Test Mode  | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(MHz) |
|------------|-------------------|-------------|--------------------|------------------------|----------------|
| 11ax-HE20  | MCS0              | 169         | 5845               | 19.01                  | ≥ 0.5          |
| 11ax-HE40  | MCS0              | 167         | 5835               | 37.58                  | ≥ 0.5          |
| 11ax-HE80  | MCS0              | 171         | 5855               | 76.44                  | ≥ 0.5          |
| 11ax-HE160 | MCS0              | 163         | 5815               | 155.50                 | ≥ 0.5          |



**A.4 Output Power Test Result**

|           |            |               |            |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1    | Test Engineer | Alisa Deng |
| Test Date | 2023-10-30 |               |            |
| Remark    | Spot Check |               |            |

| Test Mode | Data Rate<br>MCS | Channel<br>No. | Freq.<br>(MHz) | Average Power<br>(dBm) |       | Total<br>Average<br>Power<br>(dBm) | Antenna<br>Gain (dBi) | EIRP<br>Power<br>(dBm) | EIRP<br>Power<br>Limit<br>(dBm) |
|-----------|------------------|----------------|----------------|------------------------|-------|------------------------------------|-----------------------|------------------------|---------------------------------|
|           |                  |                |                | Ant 0                  | Ant 1 |                                    |                       |                        |                                 |
| a         | 6Mbps            | 169            | 5845           | 17.87                  | 17.91 | 20.90                              | 3.80                  | 24.70                  | ≤ 36.00                         |
| ac-VHT20  | MCS0             | 169            | 5845           | 17.84                  | 18.15 | 21.01                              | 3.80                  | 24.81                  | ≤ 36.00                         |
| ac-VHT40  | MCS0             | 167            | 5835           | 17.92                  | 17.72 | 20.83                              | 3.80                  | 24.63                  | ≤ 36.00                         |
| ac-VHT80  | MCS0             | 171            | 5855           | 17.84                  | 17.56 | 20.71                              | 3.80                  | 24.51                  | ≤ 36.00                         |
| ac-VHT160 | MCS0             | 163            | 5815           | 14.52                  | 14.28 | 17.41                              | 3.80                  | 21.21                  | ≤ 36.00                         |
| ax-HE20   | MCS0             | 169            | 5845           | 17.90                  | 18.06 | 20.99                              | 3.80                  | 24.79                  | ≤ 36.00                         |
| ax-HE40   | MCS0             | 167            | 5835           | 18.24                  | 18.04 | 21.15                              | 3.80                  | 24.95                  | ≤ 36.00                         |
| ax-HE80   | MCS0             | 171            | 5855           | 17.97                  | 17.88 | 20.94                              | 3.80                  | 24.74                  | ≤ 36.00                         |
| ax-HE160  | MCS0             | 163            | 5815           | 14.88                  | 14.36 | 17.64                              | 3.80                  | 21.44                  | ≤ 36.00                         |

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

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

**A.5 Power Spectral Density Test Result**

|           |            |               |            |
|-----------|------------|---------------|------------|
| Test Site | SIP-TR1    | Test Engineer | Alisa Deng |
| Test Date | 2023-12-29 |               |            |
| Remark    | Spot Check |               |            |

| Test Mode | Data Rate/<br>MCS | Channel No. | Freq. (MHz) | AVPSD (dBm/MHz) |        | Duty Cycle (%) | Total PSD (dBm/MHz) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) |
|-----------|-------------------|-------------|-------------|-----------------|--------|----------------|---------------------|--------------------|--------------------------|
|           |                   |             |             | Ant 0           | Ant 1  |                |                     |                    |                          |
| 11ax-HE20 | MCS0              | 169         | 5845        | 5.835           | 4.759  | 97.69          | 8.44                | 15.24              | ≤ 20.00                  |
| 11ax-HE40 | MCS0              | 167         | 5835        | 2.915           | 2.412  | 95.84          | 5.87                | 12.67              | ≤ 20.00                  |
| 11ax-HE80 | MCS0              | 171         | 5855        | 0.236           | -0.209 | 92.46          | 3.37                | 10.17              | ≤ 20.00                  |

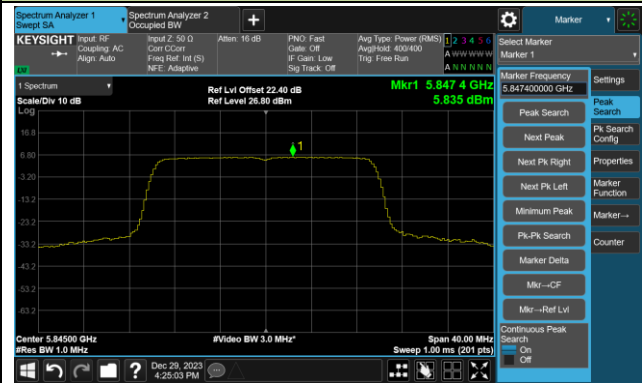
Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =  $10 \cdot \log \{10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}\} + 10 \cdot \log (1/\text{Duty cycle})$ .

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

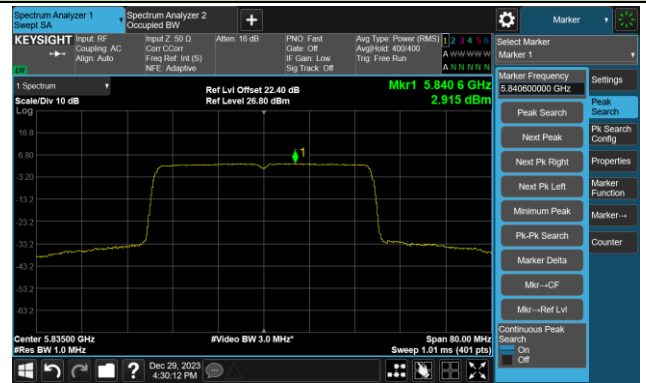
Note 3: For Channels span the 5.725-5.850 GHz and 5.850-5.895 GHz bands, we record the maximum level of 5.725-5.850 GHz and 5.850-5.895 GHz with RBW=1MHz, and the level complied with the 5.850-5.895 GHz EIRP PSD Limit.

Power Spectral Density - Ant 0

802.11ax-HE20 Channel 169 (5845MHz)

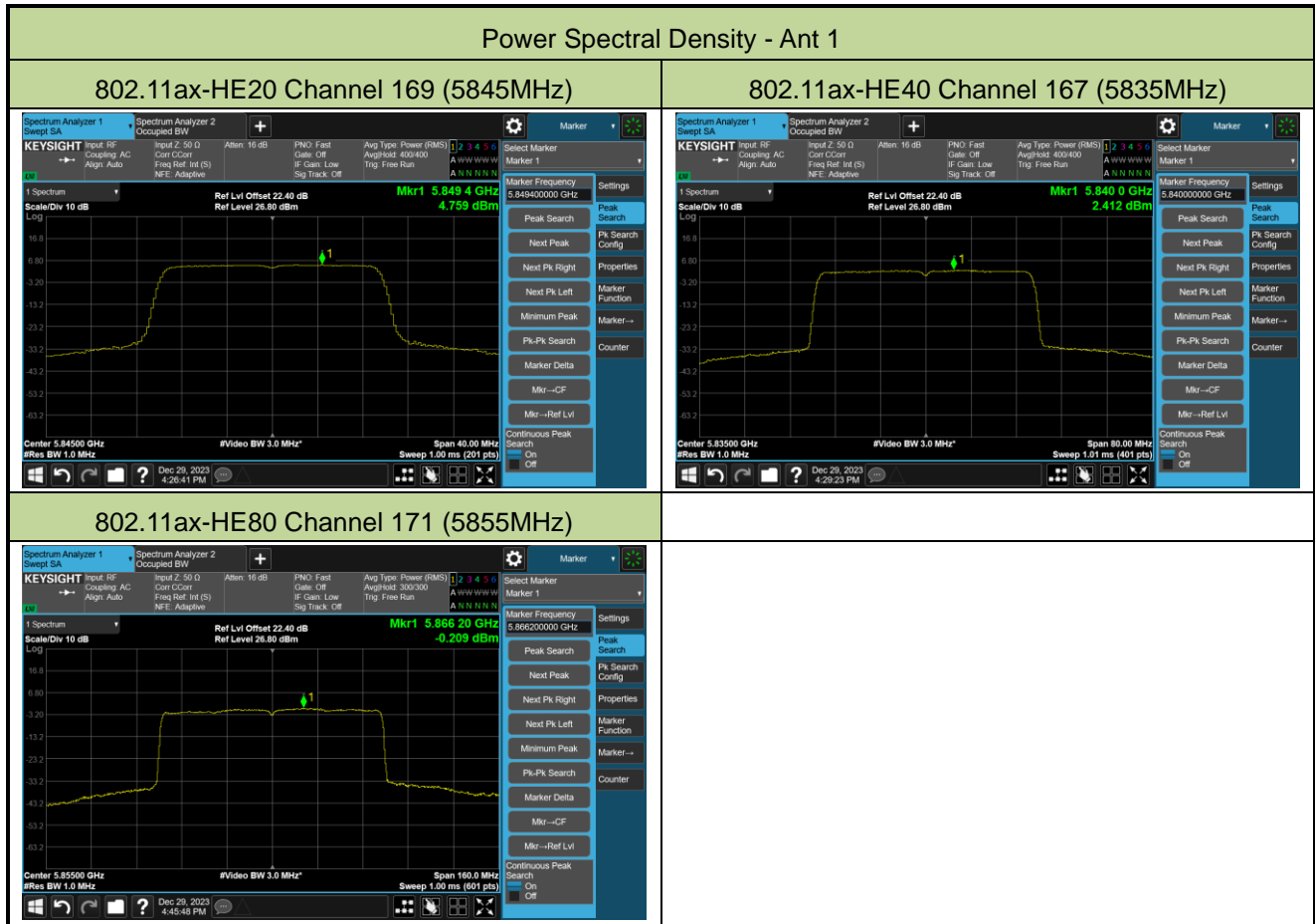


802.11ax-HE40 Channel 167 (5835MHz)



802.11ax-HE80 Channel 171 (5855MHz)





**A.6 Frequency Stability Test Result**

|           |                        |               |            |
|-----------|------------------------|---------------|------------|
| Test Site | SIP-TR1                | Test Engineer | Alisa Deng |
| Test Date | 2023-12-29             |               |            |
| Remark    | Spot Check             |               |            |
| Test Mode | 5845MHz (Carrier Mode) |               |            |

| Voltage (%) | Power (VAC) | Temp (°C) | Frequency Tolerance (ppm) |           |           |            |
|-------------|-------------|-----------|---------------------------|-----------|-----------|------------|
|             |             |           | 0 minutes                 | 2 minutes | 5 minutes | 10 minutes |
| 100         | 120         | - 20      | 11.28                     | 11.27     | 11.27     | 11.26      |

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

**A.7 Radiated Spurious Emission Test Result**

|           |   |               |                       |
|-----------|---|---------------|-----------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan             |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11a – Channel 169 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                       |

| Mark | Frequency (MHz) | Reading Level (dBμV) | Factor (dB/m) | Measure Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Polarization |
|------|-----------------|----------------------|---------------|------------------------|----------------|-------------|----------|--------------|
| *    | 10086.5         | 46.4                 | -4.3          | 42.1                   | 108.2          | -66.1       | Peak     | Horizontal   |
|      | 12041.5         | 46.4                 | -3.0          | 43.4                   | 74.0           | -30.6       | Peak     | Horizontal   |
| *    | 13614.0         | 45.2                 | -0.4          | 44.8                   | 108.2          | -63.4       | Peak     | Horizontal   |
|      | 15586.0         | 43.1                 | 3.6           | 46.7                   | 74.0           | -27.3       | Peak     | Horizontal   |
|      | 9066.5          | 47.3                 | -4.9          | 42.4                   | 74.0           | -31.6       | Peak     | Vertical     |
| *    | 10010.0         | 46.1                 | -4.4          | 41.7                   | 108.2          | -66.5       | Peak     | Vertical     |
|      | 11514.5         | 45.4                 | -3.2          | 42.2                   | 74.0           | -31.8       | Peak     | Vertical     |
| *    | 13886.0         | 44.7                 | -0.5          | 44.2                   | 108.2          | -64.0       | Peak     | Vertical     |

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

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

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



|           |   |               |                              |
|-----------|---|---------------|------------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                    |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ac-VHT20 – Channel 169 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                              |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
| *    | 10001.5         | 47.8                       | -4.5          | 43.3                         | 108.2                | -64.9         | Peak     | Horizontal   |
|      | 11412.5         | 46.0                       | -3.5          | 42.5                         | 74.0                 | -31.5         | Peak     | Horizontal   |
|      | 12279.5         | 45.5                       | -2.8          | 42.7                         | 74.0                 | -31.3         | Peak     | Horizontal   |
| *    | 13784.0         | 44.8                       | -0.6          | 44.2                         | 108.2                | -64.0         | Peak     | Horizontal   |
|      | 8412.0          | 47.2                       | -5.7          | 41.5                         | 74.0                 | -32.5         | Peak     | Vertical     |
|      | 11939.5         | 46.3                       | -3.1          | 43.2                         | 74.0                 | -30.8         | Peak     | Vertical     |
| *    | 13622.5         | 45.9                       | -0.9          | 45                           | 108.2                | -63.2         | Peak     | Vertical     |
| *    | 14812.5         | 44.7                       | 1.2           | 45.9                         | 108.2                | -62.3         | Peak     | Vertical     |

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

Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |   |               |                              |
|-----------|---|---------------|------------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                    |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ac-VHT40 – Channel 167 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                              |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
| *    | 10163.0         | 47.0                       | -4.5          | 42.5                         | 108.2                | -65.7         | Peak     | Horizontal   |
|      | 11506.0         | 47.2                       | -3.1          | 44.1                         | 74.0                 | -29.9         | Peak     | Horizontal   |
| *    | 13775.5         | 45.8                       | -0.5          | 45.3                         | 108.2                | -62.9         | Peak     | Horizontal   |
|      | 15577.5         | 43.9                       | 3.4           | 47.3                         | 74.0                 | -26.7         | Peak     | Horizontal   |
|      | 8242.0          | 45.4                       | -5.4          | 40.0                         | 74.0                 | -34.0         | Peak     | Vertical     |
|      | 11489.0         | 46.0                       | -3.2          | 42.8                         | 74.0                 | -31.2         | Peak     | Vertical     |
| *    | 13724.5         | 45.5                       | -0.7          | 44.8                         | 108.2                | -63.4         | Peak     | Vertical     |
| *    | 15008.0         | 43.9                       | 1.3           | 45.2                         | 108.2                | -63.0         | Peak     | Vertical     |

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

Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |   |               |                              |
|-----------|---|---------------|------------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                    |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ac-VHT80 – Channel 171 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                              |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
|      | 8140.0          | 48.5                       | -5.7          | 42.8                         | 74.0                 | -31.2         | Peak     | Horizontal   |
| *    | 10231.0         | 48.4                       | -5.1          | 43.3                         | 108.2                | -64.9         | Peak     | Horizontal   |
|      | 11191.5         | 46.8                       | -3.8          | 43.0                         | 74.0                 | -31.0         | Peak     | Horizontal   |
| *    | 14081.5         | 44.9                       | -0.5          | 44.4                         | 108.2                | -63.8         | Peak     | Horizontal   |
|      | 8429.0          | 47.0                       | -5.5          | 41.5                         | 74.0                 | -32.5         | Peak     | Vertical     |
|      | 11353.0         | 47.2                       | -2.9          | 44.3                         | 74.0                 | -29.7         | Peak     | Vertical     |
| *    | 13614.0         | 44.4                       | -0.4          | 44.0                         | 108.2                | -64.2         | Peak     | Vertical     |
| *    | 15271.5         | 43.9                       | 1.9           | 45.8                         | 108.2                | -62.4         | Peak     | Vertical     |

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

Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |   |               |                               |
|-----------|---|---------------|-------------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                     |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ac-VHT160 – Channel 163 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                               |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
|      | 8369.5          | 47.0                       | -5.2          | 41.8                         | 74.0                 | -32.2         | Peak     | Horizontal   |
|      | 11489.0         | 46.1                       | -3.2          | 42.9                         | 74.0                 | -31.1         | Peak     | Horizontal   |
| *    | 13886.0         | 45.5                       | -0.5          | 45.0                         | 108.2                | -63.2         | Peak     | Horizontal   |
| *    | 14914.5         | 45.0                       | 1.3           | 46.3                         | 108.2                | -61.9         | Peak     | Horizontal   |
|      | 8429.0          | 46.6                       | -5.5          | 41.1                         | 74.0                 | -32.9         | Peak     | Vertical     |
|      | 11463.5         | 47.2                       | -3.5          | 43.7                         | 74.0                 | -30.3         | Peak     | Vertical     |
| *    | 13801.0         | 45.7                       | -0.4          | 45.3                         | 108.2                | -62.9         | Peak     | Vertical     |
| *    | 14727.5         | 45.1                       | 1.3           | 46.4                         | 108.2                | -61.8         | Peak     | Vertical     |

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

Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |   |               |                             |
|-----------|---|---------------|-----------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                   |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ax-HE20 – Channel 169 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                             |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
|      | 8429.0          | 47.8                       | -5.5          | 42.3                         | 74.0                 | -31.7         | Peak     | Horizontal   |
|      | 11463.5         | 47.2                       | -3.5          | 43.7                         | 74.0                 | -30.3         | Peak     | Horizontal   |
| *    | 13801.0         | 45.7                       | -0.4          | 45.3                         | 108.2                | -62.9         | Peak     | Horizontal   |
| *    | 14727.5         | 45.1                       | 1.3           | 46.4                         | 108.2                | -61.8         | Peak     | Horizontal   |
|      | 9092.0          | 46.9                       | -5.0          | 41.9                         | 74.0                 | -32.1         | Peak     | Vertical     |
| *    | 10163.0         | 47.2                       | -4.5          | 42.7                         | 108.2                | -65.5         | Peak     | Vertical     |
|      | 11412.5         | 46.8                       | -3.5          | 43.3                         | 74.0                 | -30.7         | Peak     | Vertical     |
| *    | 13835.0         | 45.1                       | -0.7          | 44.4                         | 108.2                | -63.8         | Peak     | Vertical     |

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

Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |   |               |                             |
|-----------|---|---------------|-----------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                   |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ax-HE40 – Channel 167 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                             |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
|      | 9058.0          | 48.0                       | -5.0          | 43.0                         | 74.0                 | -31.0         | Peak     | Horizontal   |
| *    | 10010.0         | 46.4                       | -4.4          | 42.0                         | 108.2                | -66.2         | Peak     | Horizontal   |
|      | 11404.0         | 46.6                       | -3.7          | 42.9                         | 74.0                 | -31.1         | Peak     | Horizontal   |
| *    | 13622.5         | 45.9                       | -0.9          | 45.0                         | 108.2                | -63.2         | Peak     | Horizontal   |
|      | 10639.0         | 46.8                       | -4.4          | 42.4                         | 74.0                 | -31.6         | Peak     | Vertical     |
|      | 11939.5         | 45.8                       | -3.1          | 42.7                         | 74.0                 | -31.3         | Peak     | Vertical     |
| *    | 13605.5         | 45.2                       | -0.7          | 44.5                         | 108.2                | -63.7         | Peak     | Vertical     |
| *    | 14634.0         | 44.1                       | 1.0           | 45.1                         | 108.2                | -63.1         | Peak     | Vertical     |

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

Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |   |               |                             |
|-----------|---|---------------|-----------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                   |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ax-HE80 – Channel 171 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                             |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
|      | 9151.5          | 46.3                       | -5.3          | 41.0                         | 74.0                 | -33.0         | Peak     | Horizontal   |
|      | 11378.5         | 46.1                       | -3.4          | 42.7                         | 74.0                 | -31.3         | Peak     | Horizontal   |
| *    | 12747.0         | 46.1                       | -2.5          | 43.6                         | 108.2                | -64.6         | Peak     | Horizontal   |
| *    | 13801.0         | 44.2                       | -0.4          | 43.8                         | 108.2                | -64.4         | Peak     | Horizontal   |
| *    | 9950.5          | 47.5                       | -4.7          | 42.8                         | 108.2                | -65.4         | Peak     | Vertical     |
|      | 11506.0         | 46.0                       | -3.1          | 42.9                         | 74.0                 | -31.1         | Peak     | Vertical     |
|      | 12679.0         | 46.1                       | -2.5          | 43.6                         | 74.0                 | -30.4         | Peak     | Vertical     |
| *    | 13801.0         | 45.3                       | -0.4          | 44.9                         | 108.2                | -63.3         | Peak     | Vertical     |

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

Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

|           |   |               |                              |
|-----------|---|---------------|------------------------------|
| Test Site | SIP-AC1   | Test Engineer | Fusco Pan                    |
| Test Date | 2023-10-23 ~ 2023-10-24   | Test Mode     | 802.11ax-HE160 – Channel 163 |
| Remark    | 1. Average measurement was not performed if peak level lower than average limit.<br>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. |               |                              |

| Mark | Frequency (MHz) | Reading Level (dB $\mu$ V) | Factor (dB/m) | Measure Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB/m) | Detector | Polarization |
|------|-----------------|----------------------------|---------------|------------------------------|----------------------|---------------|----------|--------------|
|      | 9168.5          | 45.8                       | -5.2          | 40.6                         | 74.0                 | -33.4         | Peak     | Horizontal   |
| *    | 10282.0         | 47.3                       | -4.4          | 42.9                         | 108.2                | -65.3         | Peak     | Horizontal   |
|      | 11718.5         | 45.8                       | -3.3          | 42.5                         | 74.0                 | -31.5         | Peak     | Horizontal   |
| *    | 13614.0         | 44.0                       | -0.4          | 43.6                         | 108.2                | -64.6         | Peak     | Horizontal   |
|      | 9075.0          | 46.2                       | -4.8          | 41.4                         | 74.0                 | -32.6         | Peak     | Vertical     |
| *    | 10171.5         | 47.3                       | -4.5          | 42.8                         | 108.2                | -65.4         | Peak     | Vertical     |
|      | 11897.0         | 45.6                       | -2.9          | 42.7                         | 74.0                 | -31.3         | Peak     | Vertical     |
| *    | 13801.0         | 45.4                       | -0.4          | 45.0                         | 108.2                | -63.2         | Peak     | Vertical     |

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

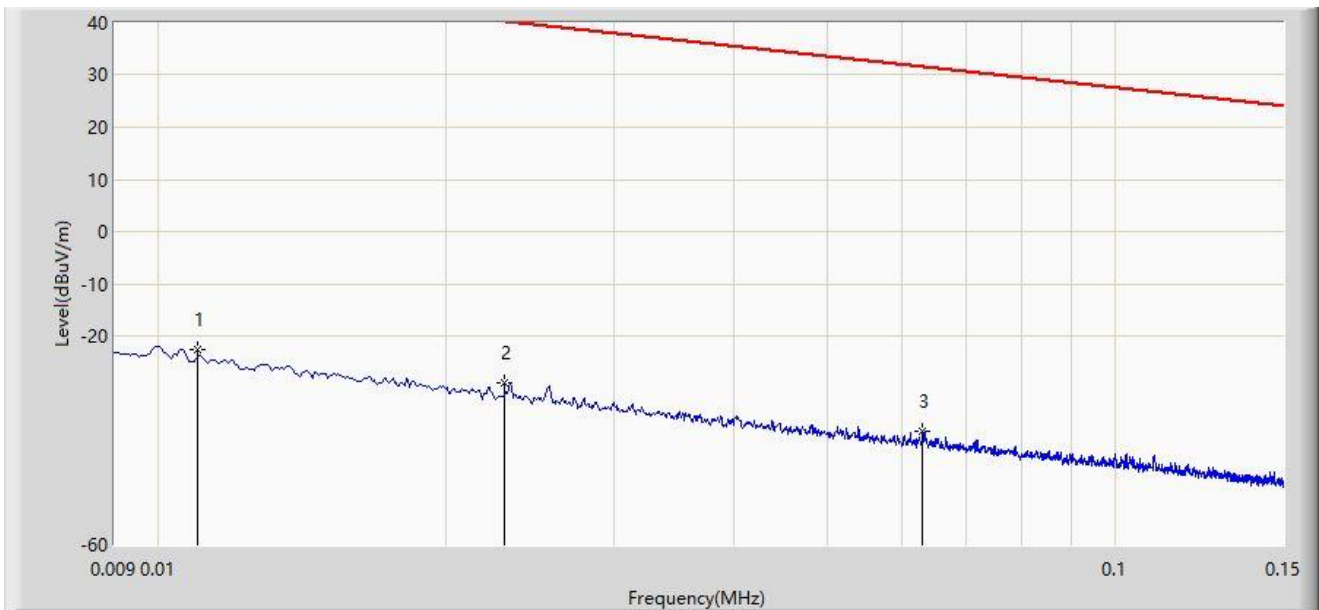
Note 2: Measure Level (dB  $\mu$  V/m) = Reading Level (dB  $\mu$  V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



**The Result of Radiated Emission below 30MHz:**

|   |                       |
|---|-----------------------|
| Site: SIP-AC1                             | Test Date: 2023/10/26 |
| Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M) | Engineer: Mero Zhou   |
| Probe: FMZB1519B_9kHz-30MHz               | Polarity: Coaxial     |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  | *    | 0.011           | -22.495                      | 37.064                     | -69.253     | 46.758               | -59.559       | PK   |
| 2  |      | 0.023           | -29.070                      | 30.977                     | -69.425     | 40.355               | -60.047       | PK   |
| 3  |      | 0.063           | -38.243                      | 22.564                     | -69.850     | 31.607               | -60.807       | PK   |

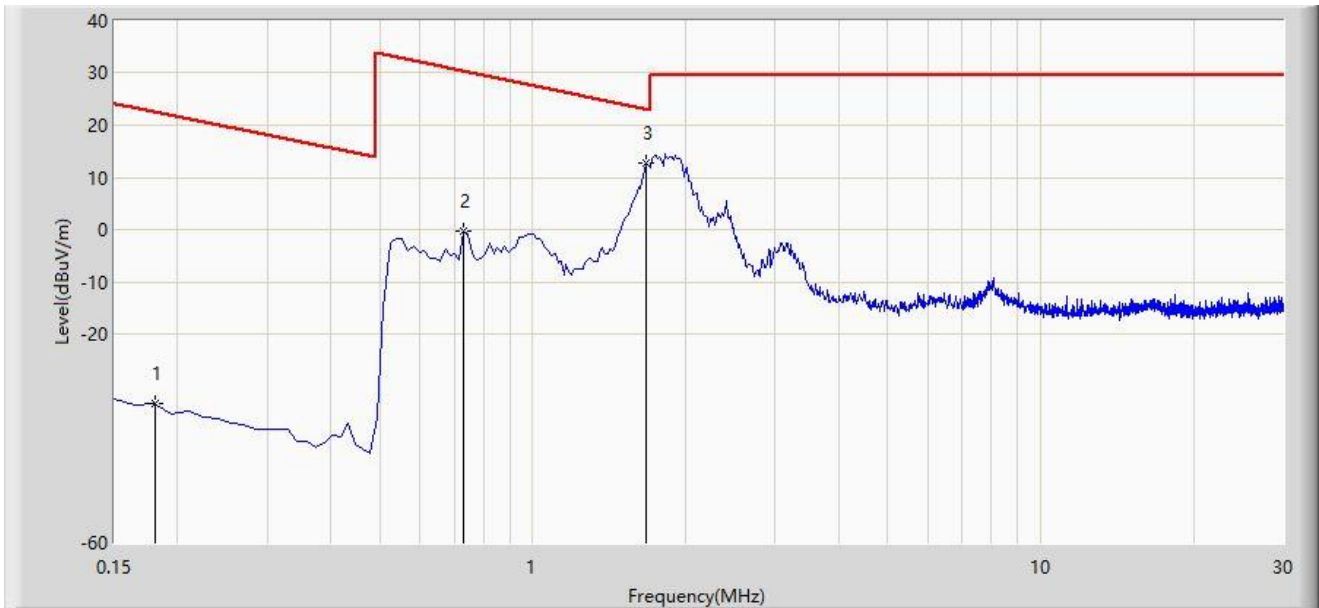
Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + 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: SIP-AC1                             | Test Date: 2023/10/26 |
| Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M) | Engineer: Mero Zhou   |
| Probe: FMZB1519B_9kHz-30MHz               | Polarity: Coaxial     |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  |      | 0.180           | -33.331                      | 27.635                     | -55.825     | 22.494               | -60.966       | PK   |
| 2  |      | 0.732           | -0.400                       | 21.589                     | -30.724     | 30.324               | -21.990       | PK   |
| 3  | *    | 1.672           | 12.753                       | 34.432                     | -10.416     | 23.169               | -21.679       | PK   |

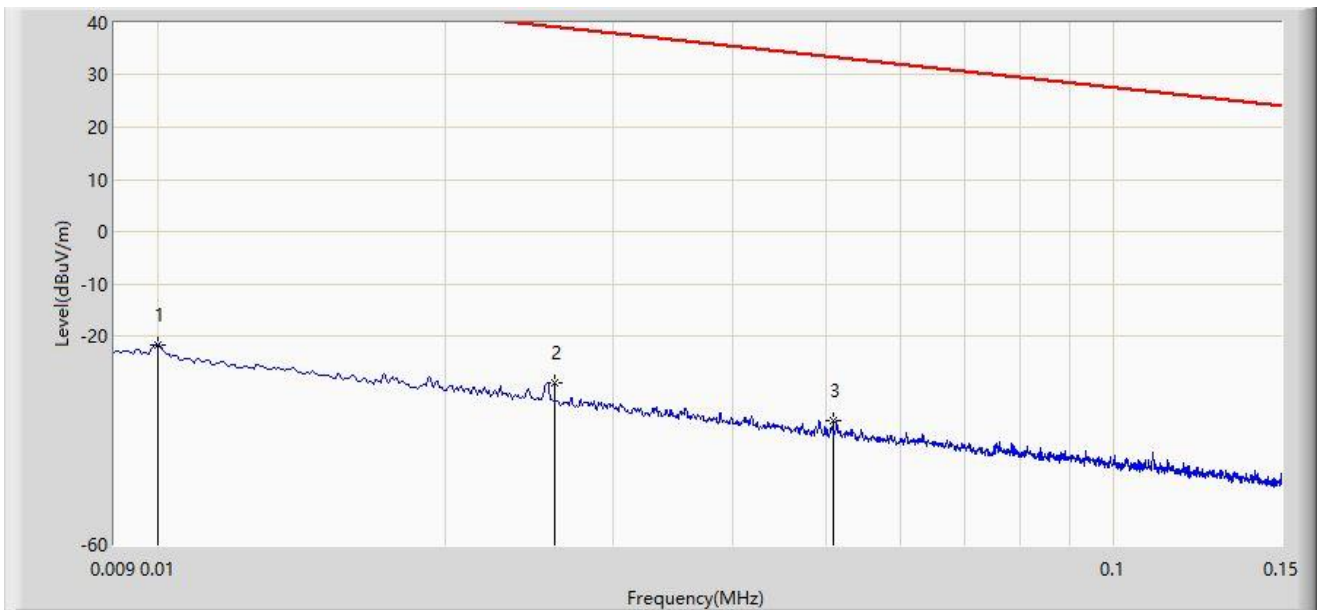
Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + 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: SIP-AC1                             | Test Date: 2023/10/26 |
| Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M) | Engineer: Mero Zhou   |
| Probe: FMZB1519B_9kHz-30MHz               | Polarity: Coplanar    |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 0.010           | -21.823                | 37.696               | -69.408     | 47.585         | -59.519       | PK   |
| 2  | *    | 0.026           | -29.030                | 31.139               | -68.320     | 39.290         | -60.169       | PK   |
| 3  |      | 0.051           | -36.222                | 24.530               | -69.664     | 33.442         | -60.752       | PK   |

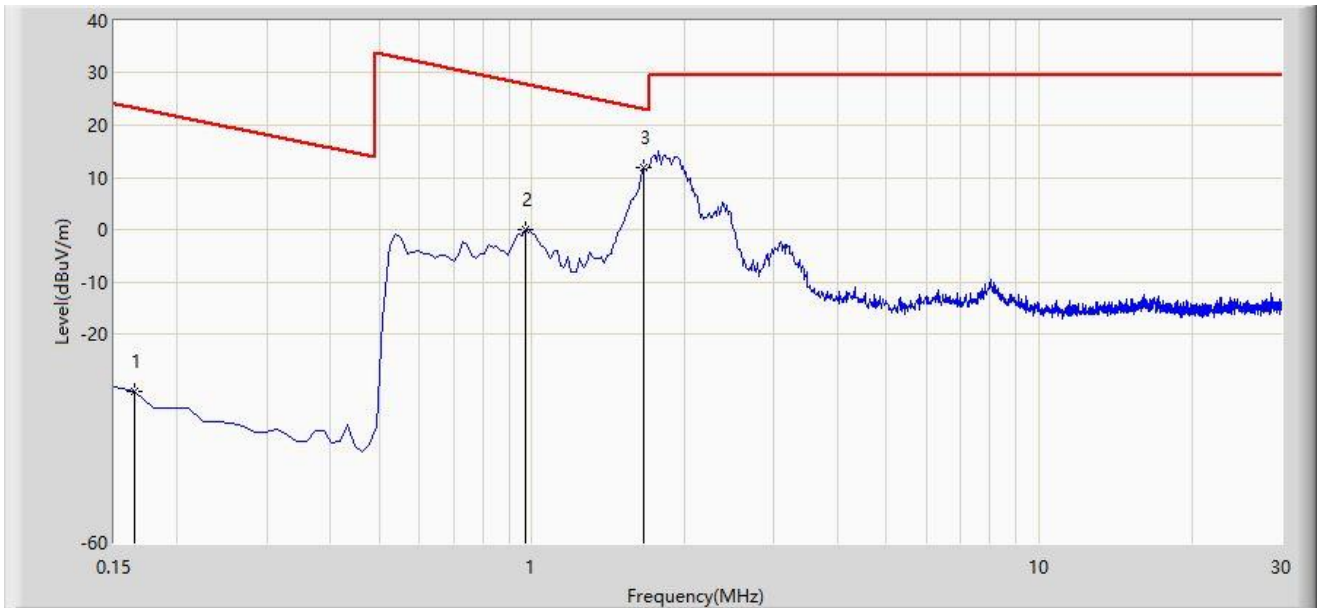
Note 1: " \* ", means this data is the worst emission level.

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: SIP-AC1                             | Test Date: 2023/10/26 |
| Limit: FCC_Part 15.209_RSE(3m)_PK(9k-30M) | Engineer: Mero Zhou   |
| Probe: FMZB1519B_9kHz-30MHz               | Polarity: Coplanar    |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  |      | 0.165           | -30.939                      | 30.021                     | -54.188     | 23.249               | -60.960       | PK   |
| 2  |      | 0.971           | -0.025                       | 21.989                     | -27.901     | 27.876               | -22.014       | PK   |
| 3  | *    | 1.657           | 11.962                       | 33.650                     | -11.285     | 23.247               | -21.688       | PK   |

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

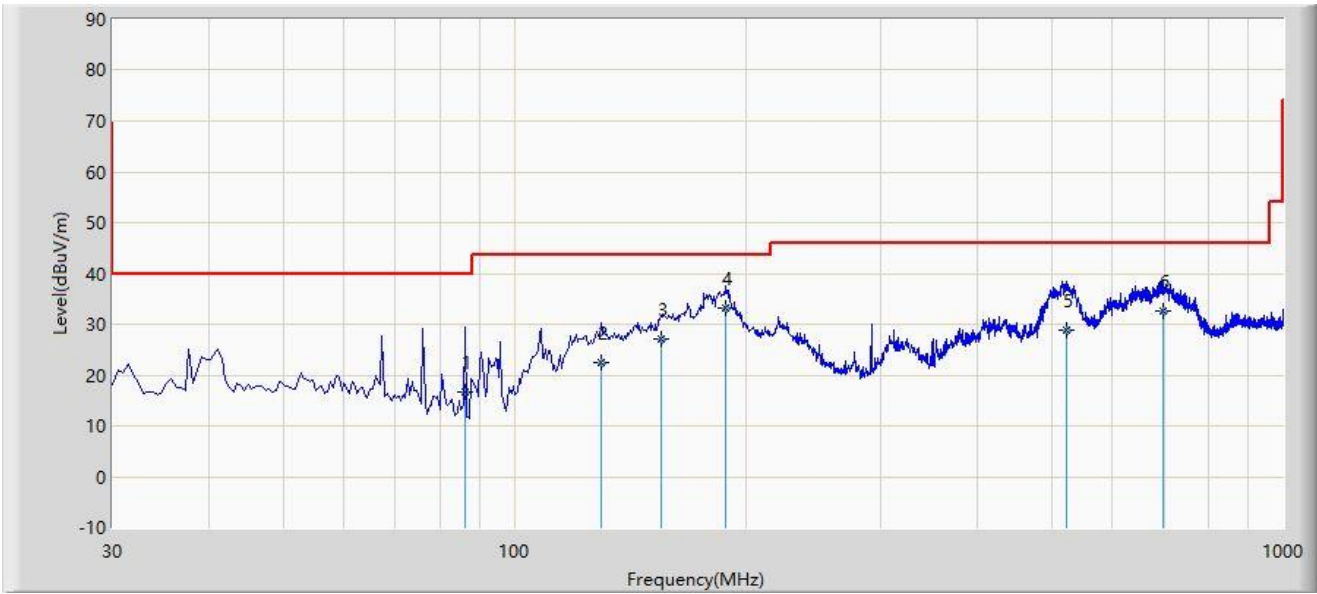
Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

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 Emission below 1GHz:**

|   |                       |
|---|-----------------------|
| Site: SIP-AC1                             | Test Date: 2023-11-01 |
| Limit: FCC_Part15.209_RSE(3m)             | Engineer: Mero Zhou   |
| Probe: VULB 9168_00998_25-2000MHz         | Polarity: Horizontal  |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 86.260          | 16.726                 | 4.400                | -23.274     | 40.000         | 12.326        | QP   |
| 2  |      | 129.910         | 22.538                 | 6.000                | -20.962     | 43.500         | 16.538        | QP   |
| 3  |      | 155.130         | 27.203                 | 9.000                | -16.297     | 43.500         | 18.203        | QP   |
| 4  | *    | 188.595         | 33.068                 | 17.800               | -10.432     | 43.500         | 15.268        | QP   |
| 5  |      | 522.760         | 28.837                 | 5.200                | -17.163     | 46.000         | 23.637        | QP   |
| 6  |      | 697.845         | 32.753                 | 5.800                | -13.247     | 46.000         | 26.953        | QP   |

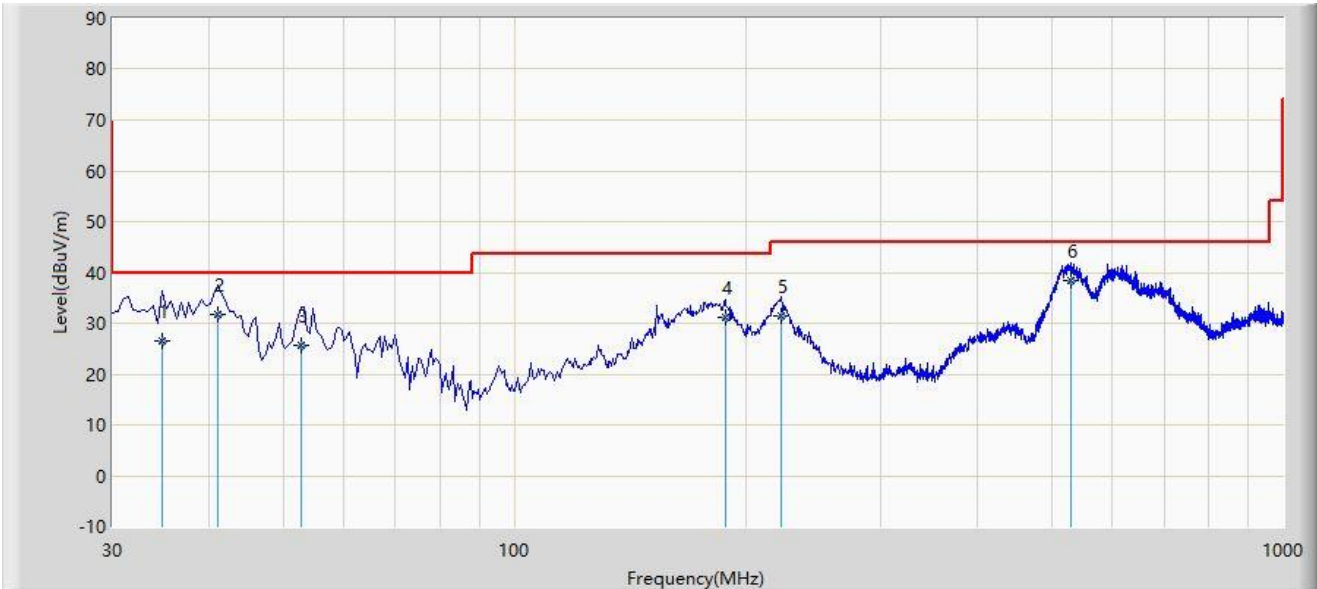
Note 1: " \* ", means this data is the worst emission level.

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: SIP-AC1                             | Test Date: 2023-11-01 |
| Limit: FCC_Part15.209_RSE(3m)             | Engineer: Mero Zhou   |
| Probe: VULB 9168_00998_25-2000MHz         | Polarity: Vertical    |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  |      | 34.850          | 26.654                       | 9.800                      | -13.346     | 40.000               | 16.855        | QP   |
| 2  |      | 41.155          | 31.639                       | 14.000                     | -8.361      | 40.000               | 17.639        | QP   |
| 3  |      | 52.795          | 25.694                       | 7.800                      | -14.306     | 40.000               | 17.893        | QP   |
| 4  |      | 188.110         | 31.101                       | 15.800                     | -12.399     | 43.500               | 15.301        | QP   |
| 5  |      | 222.545         | 31.594                       | 16.900                     | -14.406     | 46.000               | 14.694        | QP   |
| 6  | *    | 529.065         | 38.506                       | 14.800                     | -7.494      | 46.000               | 23.706        | QP   |

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

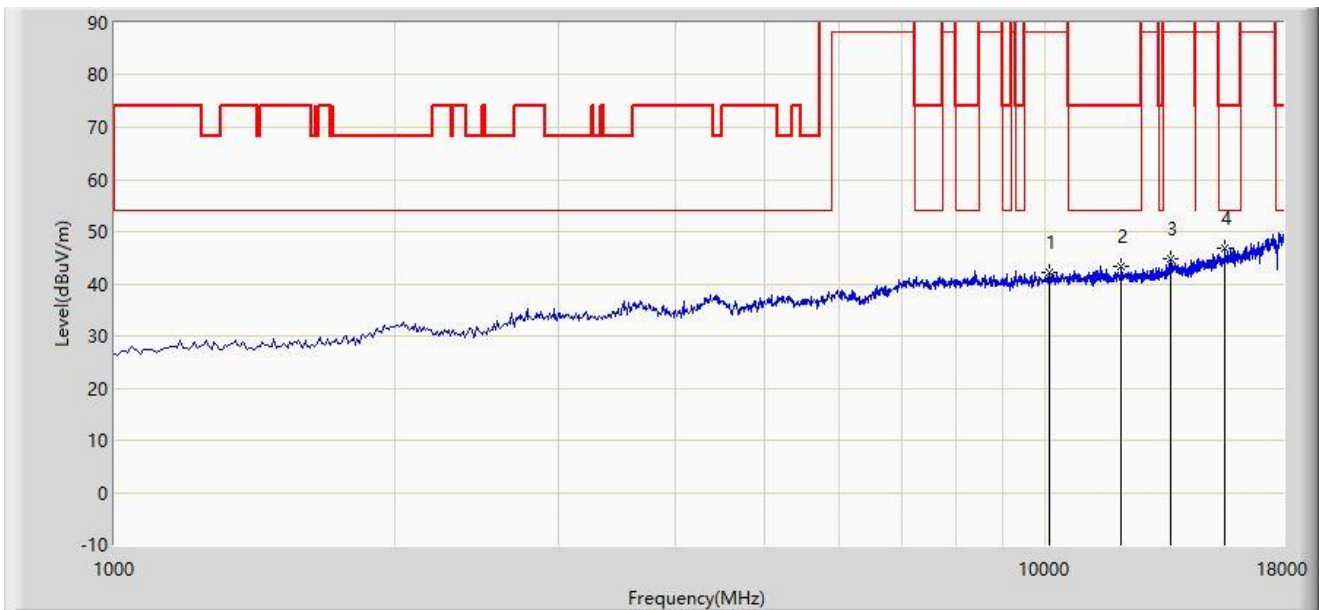
Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

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 Emission between 1GHz ~ 18GHz:**

|   |                       |
|---|-----------------------|
| Site: SIP-AC1                             | Test Date: 2023/10/23 |
| Limit: FCC_Part15.209_RSE(3m)_5.9G        | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz               | Polarity: Horizontal  |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Data: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  |      | 10086.500       | 42.094                       | 46.391                     | -66.106     | 108.200              | -4.298        | PK   |
| 2  |      | 12041.500       | 43.350                       | 46.379                     | -30.650     | 74.000               | -3.029        | PK   |
| 3  |      | 13614.000       | 44.826                       | 45.229                     | -63.374     | 108.200              | -0.403        | PK   |
| 4  | *    | 15586.000       | 46.701                       | 43.124                     | -27.299     | 74.000               | 3.577         | PK   |

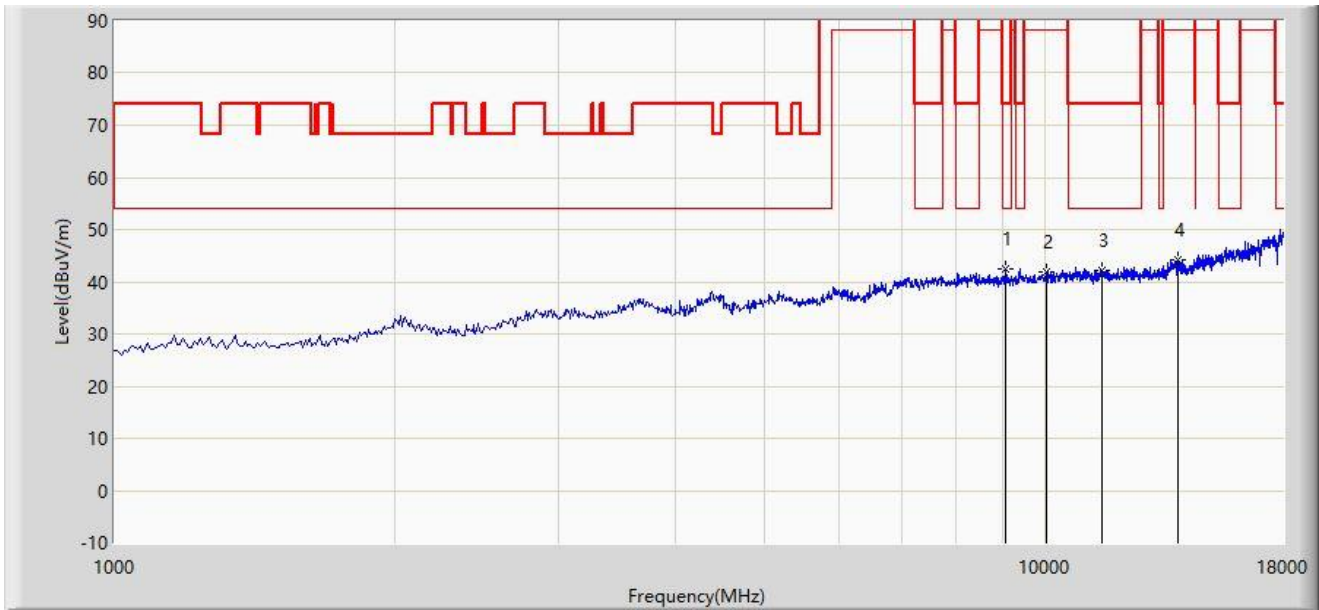
Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + 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: SIP-AC1                             | Test Date: 2023/10/23 |
| Limit: FCC_Part15.209_RSE(3m)_5.9G        | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz               | Polarity: Vertical    |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Data: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 9066.500        | 42.477                 | 47.349               | -31.523     | 74.000         | -4.872        | PK   |
| 2  |      | 10010.000       | 41.770                 | 46.143               | -66.430     | 108.200        | -4.373        | PK   |
| 3  |      | 11514.500       | 42.203                 | 45.427               | -31.797     | 74.000         | -3.225        | PK   |
| 4  |      | 13886.000       | 44.160                 | 44.660               | -64.040     | 108.200        | -0.500        | PK   |

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

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

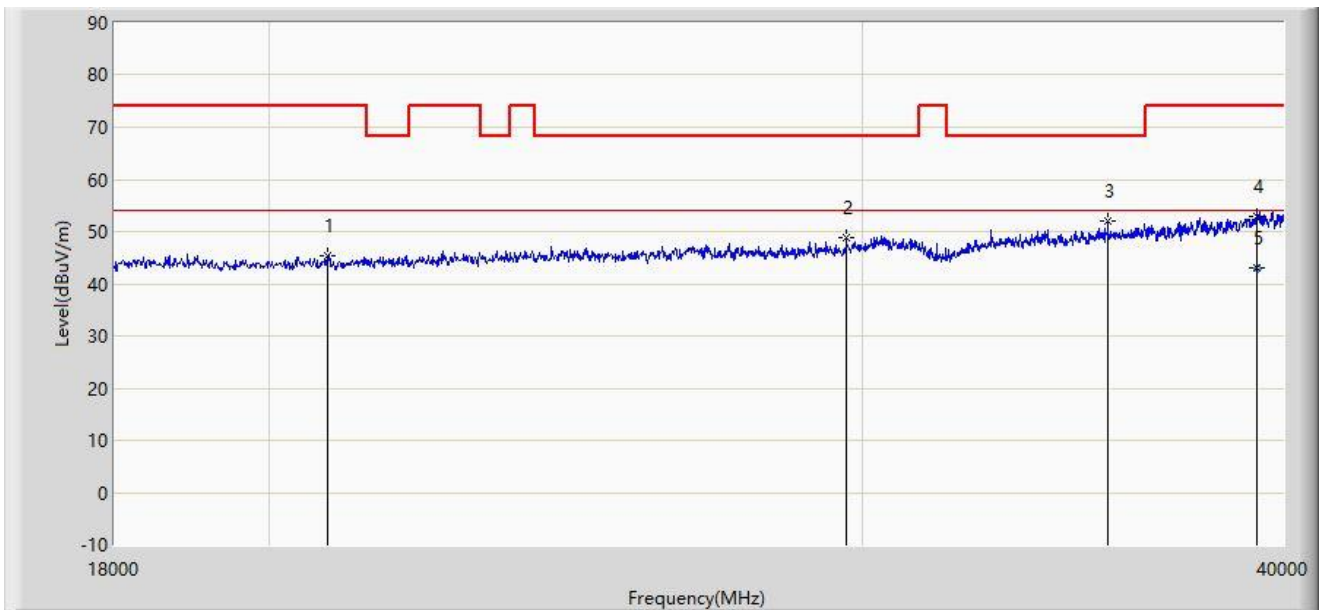
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

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



**The Result of Radiated Emission between 18GHz ~ 40GHz:**

|   |                       |
|---|-----------------------|
| Site: SIP-AC2                             | Test Date: 2023/10/25 |
| Limit: FCC_Part15.209_RSE(3m)             | Engineer: Fusco Pan   |
| Probe: BBHA 9170_00934_18-40GHz           | Polarity: Horizontal  |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 20827.000       | 45.496                 | 56.574               | -28.504     | 74.000         | -11.079       | PK   |
| 2  |      | 29682.000       | 48.818                 | 57.946               | -19.382     | 68.200         | -9.128        | PK   |
| 3  |      | 35490.000       | 51.979                 | 58.618               | -16.221     | 68.200         | -6.639        | PK   |
| 4  |      | 39274.000       | 52.966                 | 53.226               | -21.034     | 74.000         | -0.260        | PK   |
| 5  | *    | 39274.000       | 42.960                 | 43.220               | -11.040     | 54.000         | -0.260        | AV   |

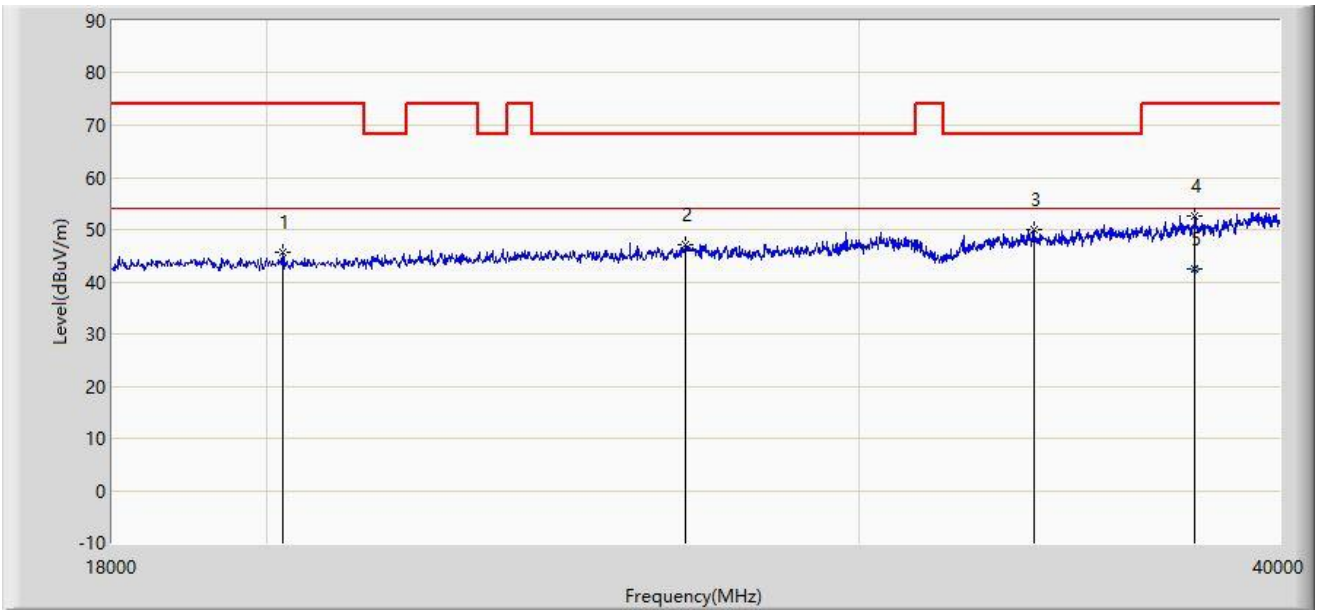
Note 1: " \* ", means this data is the worst emission level.

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).

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

|   |                       |
|---|-----------------------|
| Site: SIP-AC2                             | Test Date: 2023/10/25 |
| Limit: FCC_Part15.209_RSE(3m)             | Engineer: Fusco Pan   |
| Probe: BBHA 9170_00934_18-40GHz           | Polarity: Vertical    |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  |      | 20233.000       | 45.563                 | 57.202               | -28.437     | 74.000         | -11.638       | PK   |
| 2  |      | 26646.000       | 47.072                 | 55.191               | -21.128     | 68.200         | -8.119        | PK   |
| 3  |      | 33818.000       | 49.995                 | 59.208               | -18.205     | 68.200         | -9.213        | PK   |
| 4  |      | 37767.000       | 52.739                 | 55.819               | -21.261     | 74.000         | -3.081        | PK   |
| 5  | *    | 37767.000       | 42.580                 | 45.660               | -11.420     | 54.000         | -3.081        | AV   |

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

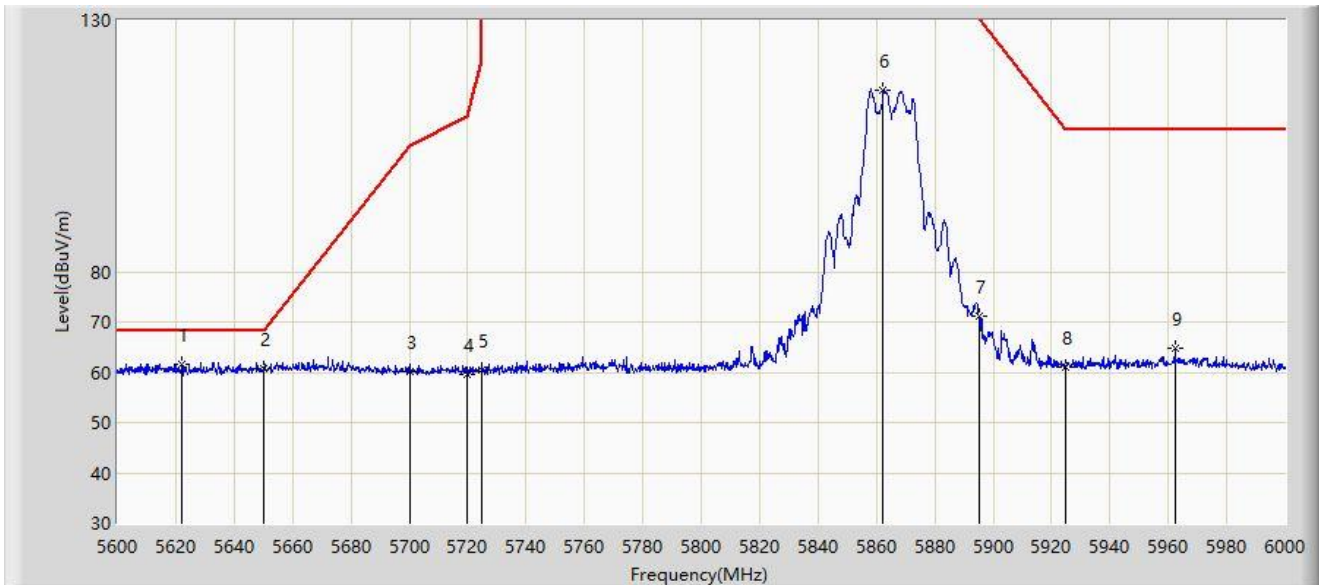
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

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

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

### A.8 Radiated Restricted Band Edge Test Result

|   |                       |
|---|-----------------------|
| Site: SIP-AC1                             | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                    | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz               | Polarity: Horizontal  |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



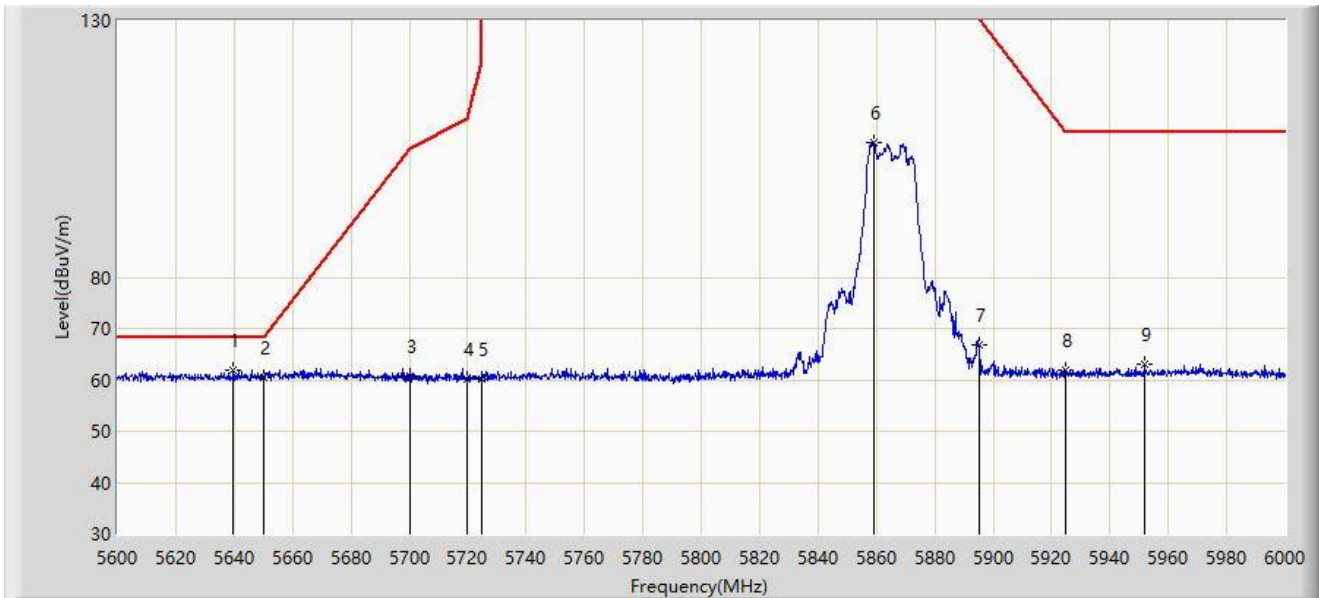
| No | Mark | Frequency (MHz) | Measure Level (dBµV/m) | Reading Level (dBµV) | Margin (dB) | Limit (dBµV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5622.200        | 61.640                 | 70.932               | -6.560      | 68.200         | -9.292        | PK   |
| 2  |      | 5650.000        | 60.664                 | 69.632               | -7.536      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.023                 | 69.320               | -45.177     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 59.631                 | 68.924               | -51.169     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 60.404                 | 69.671               | -61.796     | 122.200        | -9.267        | PK   |
| 6  |      | 5862.400        | 115.963                | 124.593              | N/A         | N/A            | -8.631        | PK   |
| 7  |      | 5895.000        | 71.209                 | 79.969               | -58.991     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.011                 | 69.625               | -47.189     | 108.200        | -8.614        | PK   |
| 9  |      | 5962.400        | 64.904                 | 73.229               | -43.296     | 108.200        | -8.325        | 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: SIP-AC1                             | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                    | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz               | Polarity: Vertical    |
| EUT: ACCESS POINT                         | Power: By PoE         |
| Test Mode: Transmit by 802.11a at 5845MHz |                       |



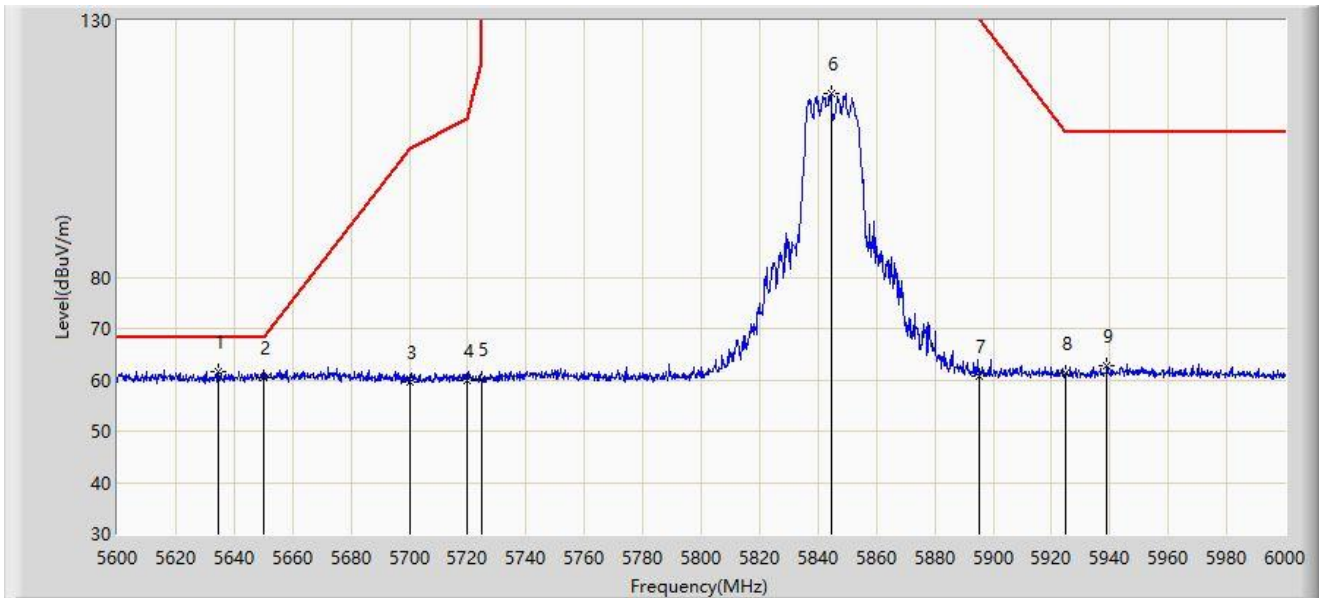
| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  | *    | 5639.800        | 61.985                       | 71.131                     | -6.215      | 68.200               | -9.147        | PK   |
| 2  |      | 5650.000        | 60.427                       | 69.395                     | -7.773      | 68.200               | -8.968        | PK   |
| 3  |      | 5700.000        | 60.599                       | 69.896                     | -44.601     | 105.200              | -9.297        | PK   |
| 4  |      | 5720.000        | 60.146                       | 69.439                     | -50.654     | 110.800              | -9.293        | PK   |
| 5  |      | 5725.000        | 60.032                       | 69.299                     | -62.168     | 122.200              | -9.267        | PK   |
| 6  |      | 5859.000        | 106.355                      | 114.955                    | N/A         | N/A                  | -8.600        | PK   |
| 7  |      | 5895.000        | 66.888                       | 75.648                     | -63.312     | 130.200              | -8.760        | PK   |
| 8  |      | 5925.000        | 61.903                       | 70.517                     | -46.297     | 108.200              | -8.614        | PK   |
| 9  |      | 5952.000        | 63.175                       | 71.651                     | -45.025     | 108.200              | -8.475        | PK   |

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

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

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

|  |                       |
|--|-----------------------|
| Site: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Horizontal  |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT20 at 5845MHz |                       |



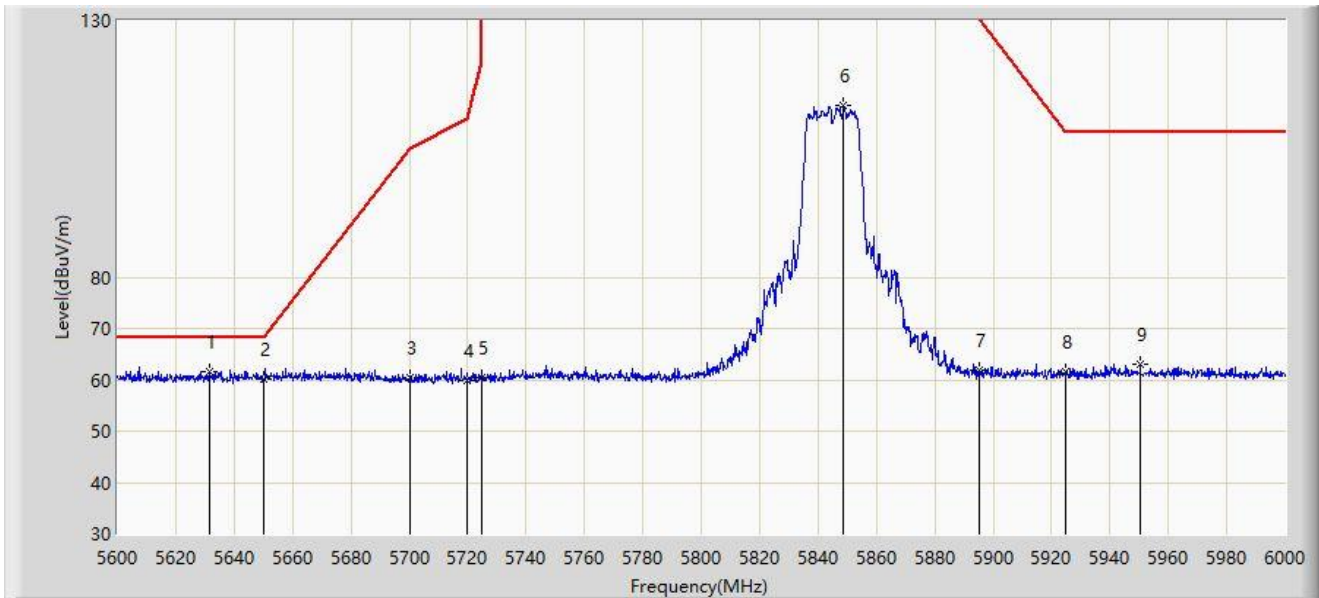
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5634.800        | 61.523                 | 70.721               | -6.677      | 68.200         | -9.198        | PK   |
| 2  |      | 5650.000        | 60.573                 | 69.541               | -7.627      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 59.637                 | 68.934               | -45.563     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 59.897                 | 69.190               | -50.903     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 60.230                 | 69.497               | -61.970     | 122.200        | -9.267        | PK   |
| 6  |      | 5844.400        | 115.898                | 124.376              | N/A         | N/A            | -8.477        | PK   |
| 7  |      | 5895.000        | 60.863                 | 69.623               | -69.337     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.222                 | 69.836               | -46.978     | 108.200        | -8.614        | PK   |
| 9  |      | 5939.000        | 62.819                 | 71.404               | -45.381     | 108.200        | -8.585        | 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: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Vertical    |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT20 at 5845MHz |                       |



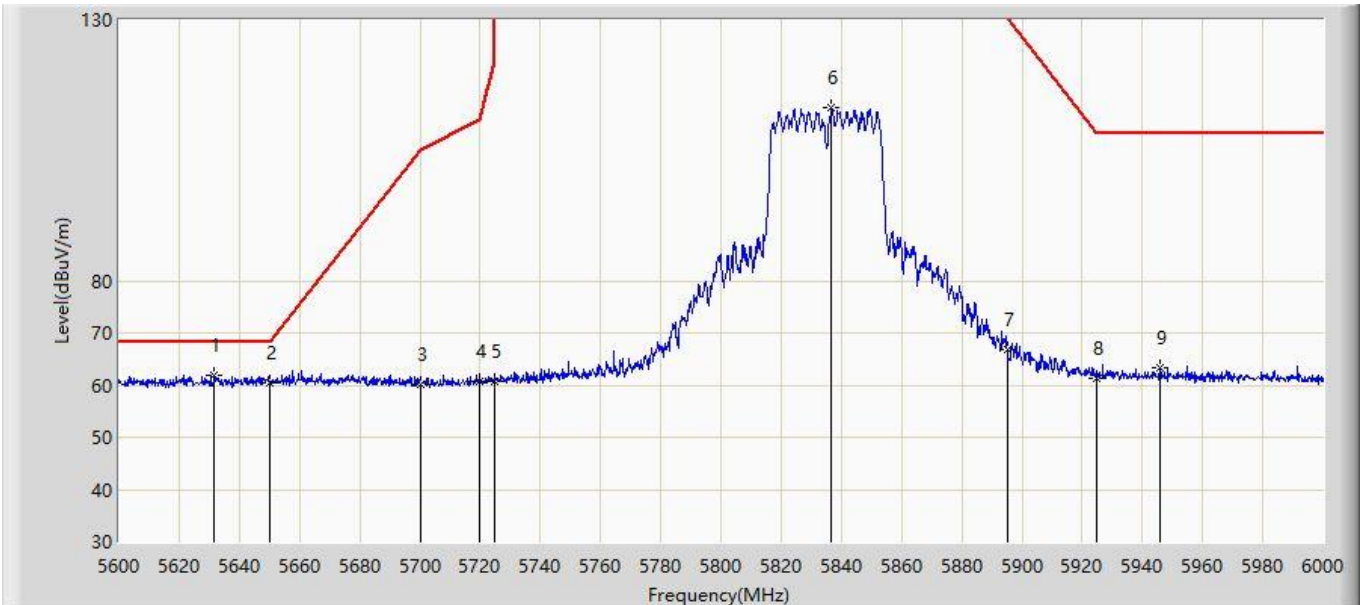
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5631.400        | 61.635                 | 70.867               | -6.565      | 68.200         | -9.233        | PK   |
| 2  |      | 5650.000        | 60.191                 | 69.159               | -8.009      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.482                 | 69.779               | -44.718     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 59.903                 | 69.196               | -50.897     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 60.360                 | 69.627               | -61.840     | 122.200        | -9.267        | PK   |
| 6  |      | 5848.800        | 113.407                | 121.911              | N/A         | N/A            | -8.505        | PK   |
| 7  |      | 5895.000        | 61.795                 | 70.555               | -68.405     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.524                 | 70.138               | -46.676     | 108.200        | -8.614        | PK   |
| 9  |      | 5950.400        | 63.121                 | 71.620               | -45.079     | 108.200        | -8.499        | 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: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Horizontal  |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT40 at 5835MHz |                       |



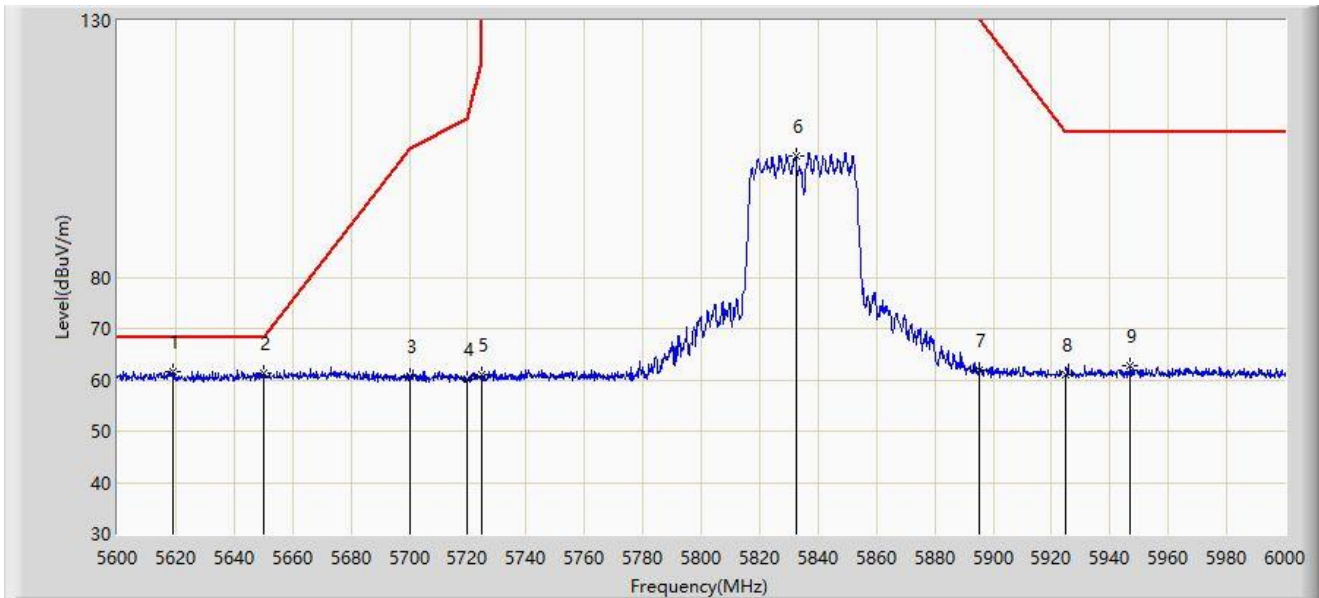
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5631.600        | 61.877                 | 71.107               | -6.323      | 68.200         | -9.231        | PK   |
| 2  |      | 5650.000        | 60.395                 | 69.363               | -7.805      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.117                 | 69.414               | -45.083     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 60.582                 | 69.875               | -50.218     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 60.691                 | 69.958               | -61.509     | 122.200        | -9.267        | PK   |
| 6  |      | 5836.800        | 113.277                | 121.870              | N/A         | N/A            | -8.593        | PK   |
| 7  |      | 5895.000        | 66.821                 | 75.581               | -63.379     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.365                 | 69.979               | -46.835     | 108.200        | -8.614        | PK   |
| 9  |      | 5945.800        | 63.419                 | 71.973               | -44.781     | 108.200        | -8.553        | 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: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Vertical    |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT40 at 5835MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5619.200        | 61.542                 | 70.806               | -6.658      | 68.200         | -9.265        | PK   |
| 2  |      | 5650.000        | 61.329                 | 70.297               | -6.871      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.595                 | 69.892               | -44.605     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 60.089                 | 69.382               | -50.711     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 61.147                 | 70.414               | -61.053     | 122.200        | -9.267        | PK   |
| 6  |      | 5832.400        | 103.561                | 112.221              | N/A         | N/A            | -8.659        | PK   |
| 7  |      | 5895.000        | 61.998                 | 70.758               | -68.202     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.075                 | 69.689               | -47.125     | 108.200        | -8.614        | PK   |
| 9  |      | 5947.000        | 62.852                 | 71.400               | -45.348     | 108.200        | -8.548        | PK   |

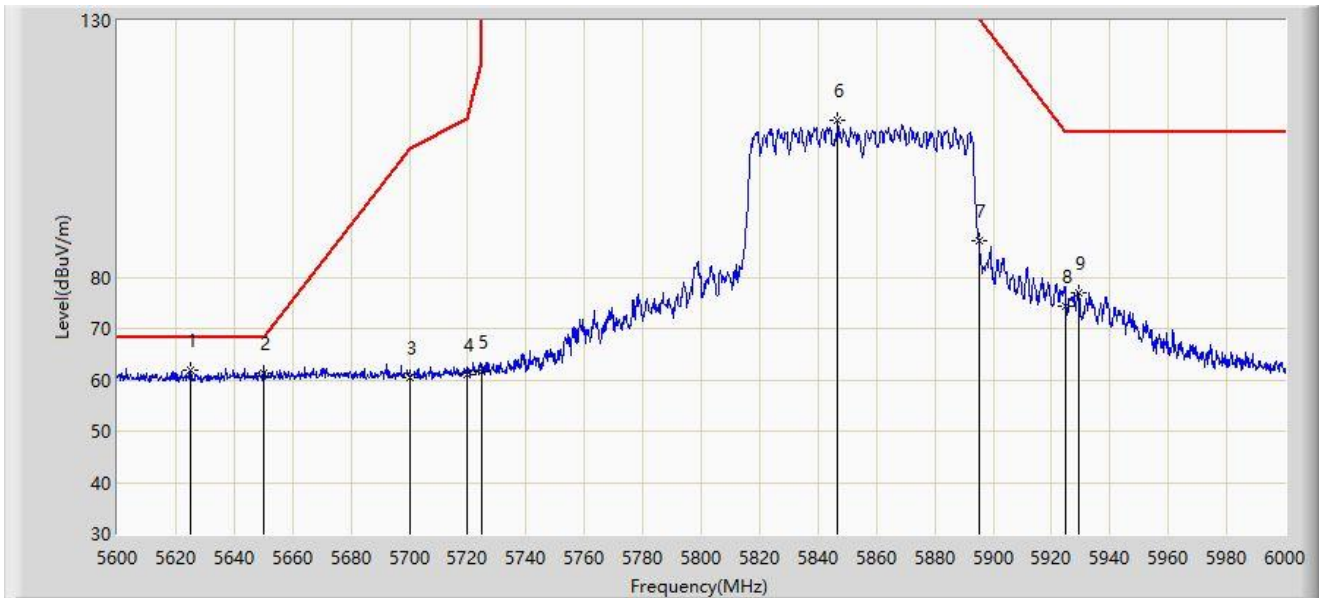
Note 1: " \* ", means this data is the worst emission level.

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: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Horizontal  |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT80 at 5855MHz |                       |



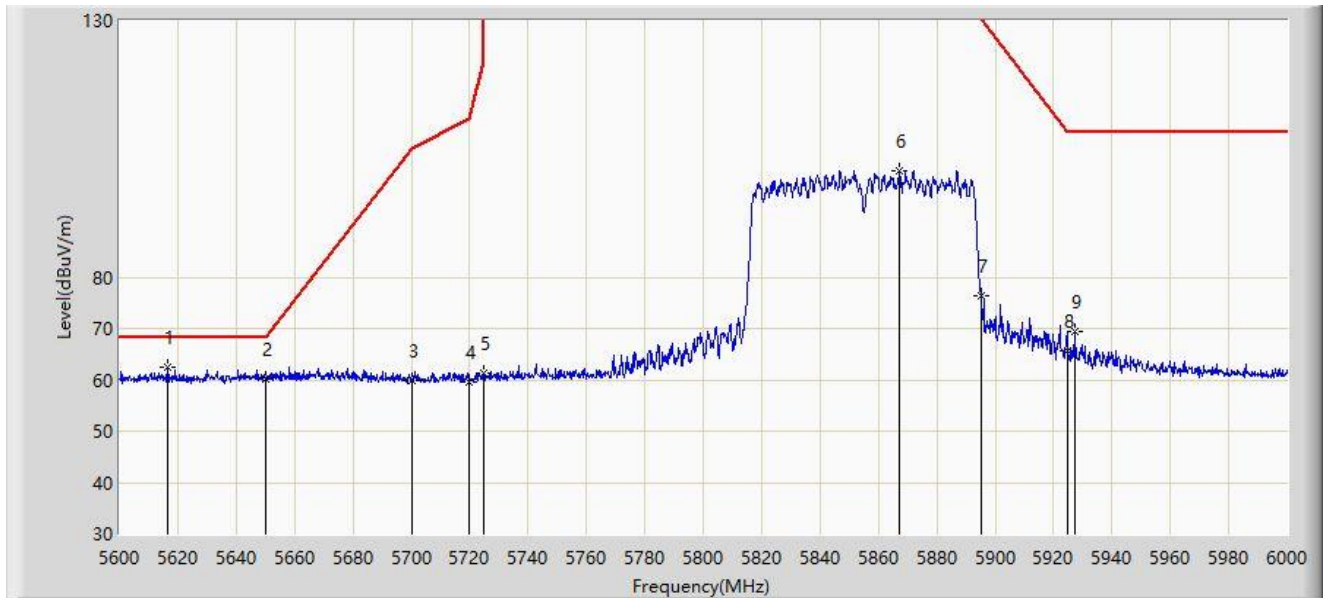
| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Margin (dB) | Limit (dBuV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5625.200        | 61.916                 | 71.212               | -6.284      | 68.200         | -9.295        | PK   |
| 2  |      | 5650.000        | 61.266                 | 70.234               | -6.934      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.408                 | 69.705               | -44.792     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 61.023                 | 70.316               | -49.777     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 61.483                 | 70.750               | -60.717     | 122.200        | -9.267        | PK   |
| 6  |      | 5846.800        | 110.443                | 118.929              | N/A         | N/A            | -8.486        | PK   |
| 7  |      | 5895.000        | 87.131                 | 95.891               | -43.069     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 74.391                 | 83.005               | -33.809     | 108.200        | -8.614        | PK   |
| 9  |      | 5929.200        | 77.025                 | 85.649               | -31.175     | 108.200        | -8.624        | 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: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Vertical    |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT80 at 5855MHz |                       |



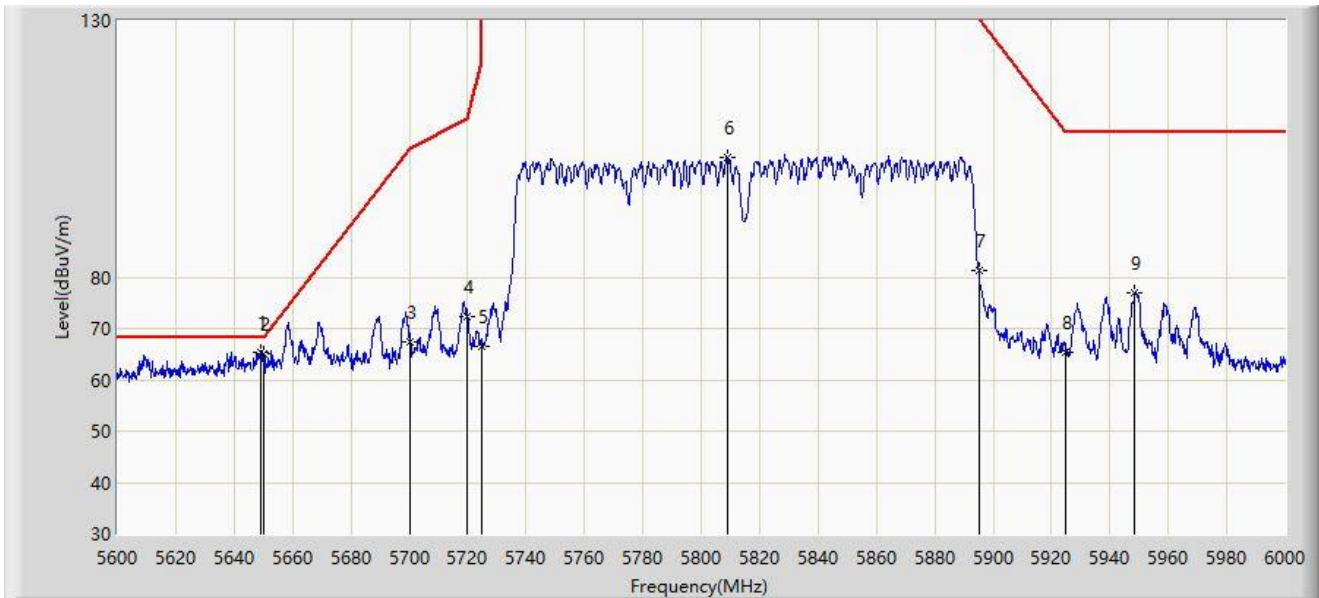
| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  | *    | 5616.600        | 62.428                       | 71.669                     | -5.772      | 68.200               | -9.240        | PK   |
| 2  |      | 5650.000        | 60.215                       | 69.183                     | -7.985      | 68.200               | -8.968        | PK   |
| 3  |      | 5700.000        | 59.845                       | 69.142                     | -45.355     | 105.200              | -9.297        | PK   |
| 4  |      | 5720.000        | 59.617                       | 68.910                     | -51.183     | 110.800              | -9.293        | PK   |
| 5  |      | 5725.000        | 61.321                       | 70.588                     | -60.879     | 122.200              | -9.267        | PK   |
| 6  |      | 5867.400        | 100.724                      | 109.377                    | N/A         | N/A                  | -8.653        | PK   |
| 7  |      | 5895.000        | 76.387                       | 85.147                     | -53.813     | 130.200              | -8.760        | PK   |
| 8  |      | 5925.000        | 65.708                       | 74.322                     | -42.492     | 108.200              | -8.614        | PK   |
| 9  |      | 5927.200        | 69.457                       | 78.076                     | -38.743     | 108.200              | -8.619        | PK   |

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

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

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

|   |                       |
|---|-----------------------|
| Site: SIP-AC1                                     | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                            | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                       | Polarity: Horizontal  |
| EUT: ACCESS POINT                                 | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT160 at 5815MHz |                       |



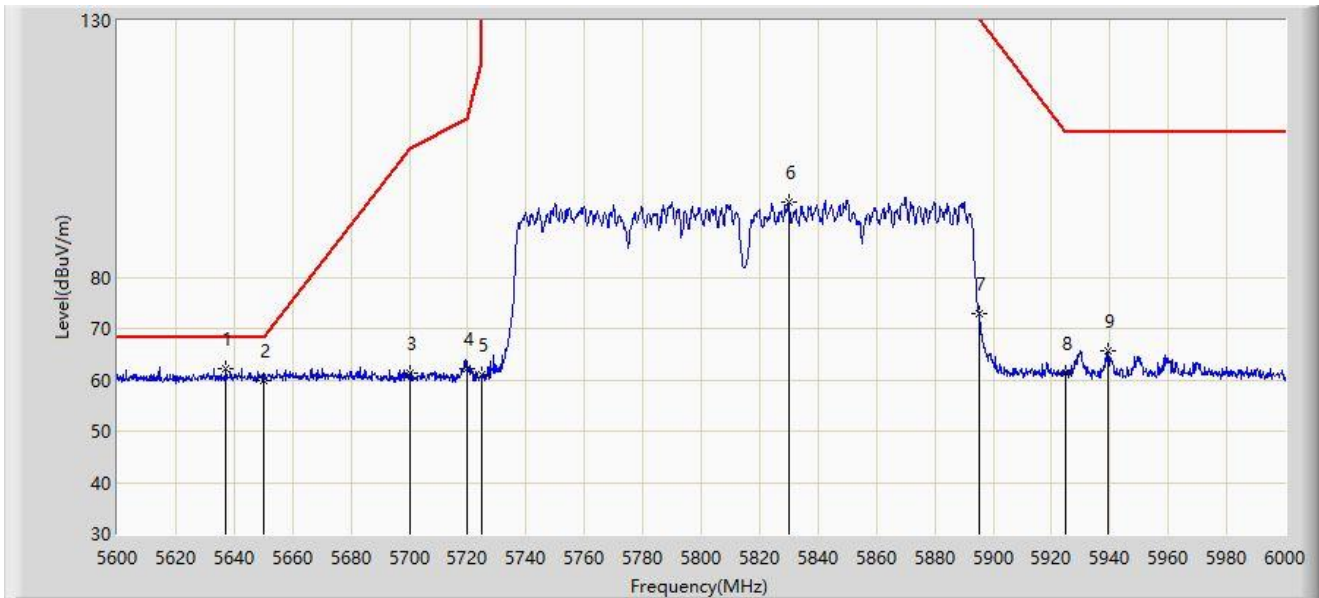
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5649.000        | 65.288                 | 74.274               | -2.912      | 68.200         | -8.987        | PK   |
| 2  |      | 5650.000        | 64.961                 | 73.929               | -3.239      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 67.258                 | 76.555               | -37.942     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 72.216                 | 81.509               | -38.584     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 66.525                 | 75.792               | -55.675     | 122.200        | -9.267        | PK   |
| 6  |      | 5808.800        | 103.383                | 112.354              | N/A         | N/A            | -8.972        | PK   |
| 7  |      | 5895.000        | 81.377                 | 90.137               | -48.823     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 65.446                 | 74.060               | -42.754     | 108.200        | -8.614        | PK   |
| 9  |      | 5948.600        | 76.937                 | 85.462               | -31.263     | 108.200        | -8.525        | 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: SIP-AC1                                     | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                            | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                       | Polarity: Vertical    |
| EUT: ACCESS POINT                                 | Power: By PoE         |
| Test Mode: Transmit by 802.11ac-VHT160 at 5815MHz |                       |



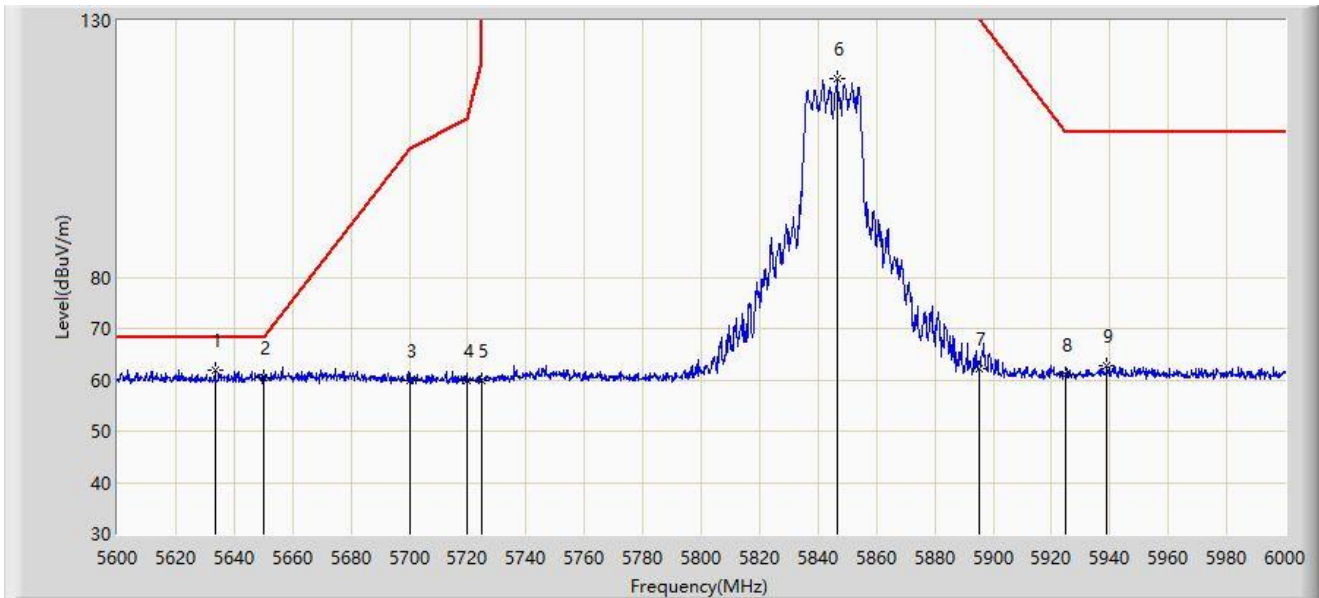
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5637.200        | 62.179                 | 71.352               | -6.021      | 68.200         | -9.174        | PK   |
| 2  |      | 5650.000        | 59.887                 | 68.855               | -8.313      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 61.207                 | 70.504               | -43.993     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 62.204                 | 71.497               | -48.596     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 61.084                 | 70.351               | -61.116     | 122.200        | -9.267        | PK   |
| 6  |      | 5830.000        | 94.779                 | 103.475              | N/A         | N/A            | -8.696        | PK   |
| 7  |      | 5895.000        | 72.779                 | 81.539               | -57.421     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.374                 | 69.988               | -46.826     | 108.200        | -8.614        | PK   |
| 9  |      | 5939.400        | 65.726                 | 74.309               | -42.474     | 108.200        | -8.582        | 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: SIP-AC1                                   | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                          | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                     | Polarity: Horizontal  |
| EUT: ACCESS POINT                               | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE20 at 5845MHz |                       |



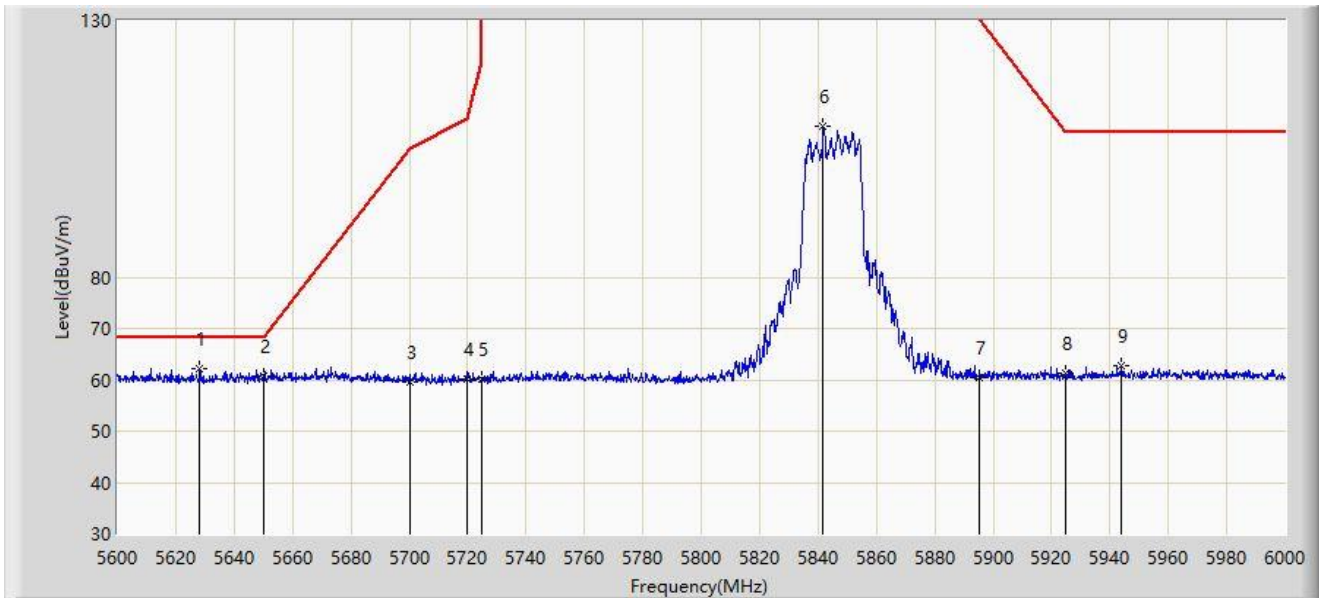
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5633.400        | 61.885                 | 71.097               | -6.315      | 68.200         | -9.212        | PK   |
| 2  |      | 5650.000        | 60.484                 | 69.452               | -7.716      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 59.762                 | 69.059               | -45.438     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 59.962                 | 69.255               | -50.838     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 59.817                 | 69.084               | -62.383     | 122.200        | -9.267        | PK   |
| 6  |      | 5846.600        | 118.582                | 127.066              | N/A         | N/A            | -8.483        | PK   |
| 7  |      | 5895.000        | 62.209                 | 70.969               | -67.991     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.096                 | 69.710               | -47.104     | 108.200        | -8.614        | PK   |
| 9  |      | 5939.000        | 62.800                 | 71.385               | -45.400     | 108.200        | -8.585        | 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: SIP-AC1                                   | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                          | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                     | Polarity: Vertical    |
| EUT: ACCESS POINT                               | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE20 at 5845MHz |                       |



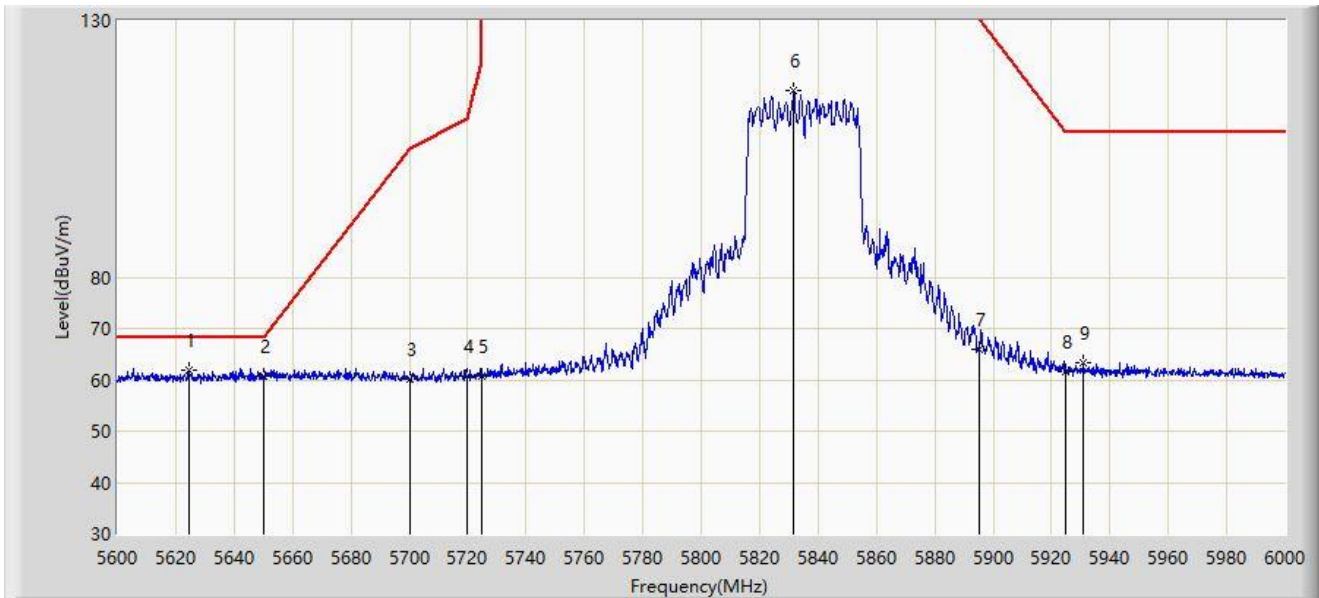
| No | Mark | Frequency (MHz) | Measure Level (dB $\mu$ V/m) | Reading Level (dB $\mu$ V) | Margin (dB) | Limit (dB $\mu$ V/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------------|----------------------------|-------------|----------------------|---------------|------|
| 1  | *    | 5628.200        | 62.070                       | 71.335                     | -6.130      | 68.200               | -9.265        | PK   |
| 2  |      | 5650.000        | 60.604                       | 69.572                     | -7.596      | 68.200               | -8.968        | PK   |
| 3  |      | 5700.000        | 59.549                       | 68.846                     | -45.651     | 105.200              | -9.297        | PK   |
| 4  |      | 5720.000        | 60.135                       | 69.428                     | -50.665     | 110.800              | -9.293        | PK   |
| 5  |      | 5725.000        | 60.018                       | 69.285                     | -62.182     | 122.200              | -9.267        | PK   |
| 6  |      | 5841.800        | 109.461                      | 117.978                    | N/A         | N/A                  | -8.518        | PK   |
| 7  |      | 5895.000        | 60.370                       | 69.130                     | -69.830     | 130.200              | -8.760        | PK   |
| 8  |      | 5925.000        | 61.166                       | 69.780                     | -47.034     | 108.200              | -8.614        | PK   |
| 9  |      | 5944.000        | 62.808                       | 71.370                     | -45.392     | 108.200              | -8.561        | PK   |

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

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

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

|   |                       |
|---|-----------------------|
| Site: SIP-AC1                                   | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                          | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                     | Polarity: Horizontal  |
| EUT: ACCESS POINT                               | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE40 at 5835MHz |                       |



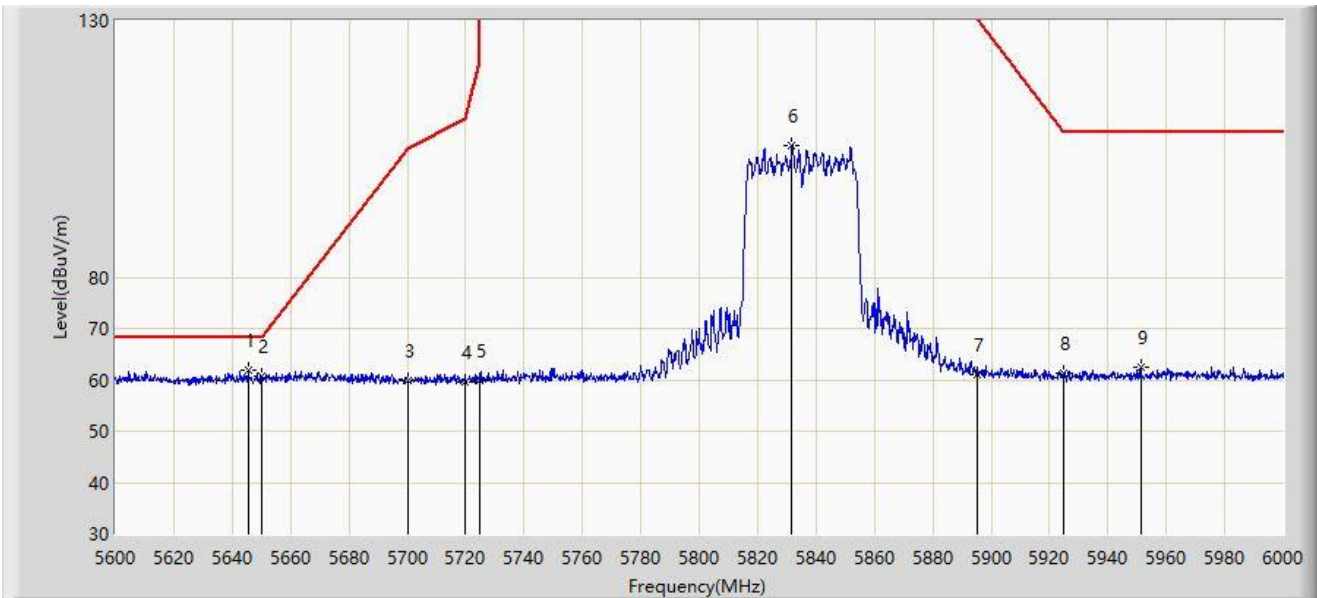
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5624.400        | 61.839                 | 71.143               | -6.361      | 68.200         | -9.304        | PK   |
| 2  |      | 5650.000        | 60.806                 | 69.774               | -7.394      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.152                 | 69.449               | -45.048     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 60.685                 | 69.978               | -50.115     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 60.663                 | 69.930               | -61.537     | 122.200        | -9.267        | PK   |
| 6  |      | 5831.600        | 116.433                | 125.105              | N/A         | N/A            | -8.672        | PK   |
| 7  |      | 5895.000        | 65.893                 | 74.653               | -64.307     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.702                 | 70.316               | -46.498     | 108.200        | -8.614        | PK   |
| 9  |      | 5930.800        | 63.299                 | 71.922               | -44.901     | 108.200        | -8.623        | 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: SIP-AC1                                   | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                          | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                     | Polarity: Vertical    |
| EUT: ACCESS POINT                               | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE40 at 5835MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5645.400        | 61.908                 | 70.961               | -6.292      | 68.200         | -9.052        | PK   |
| 2  |      | 5650.000        | 60.816                 | 69.784               | -7.384      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 59.966                 | 69.263               | -45.234     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 59.611                 | 68.904               | -51.189     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 59.889                 | 69.156               | -62.311     | 122.200        | -9.267        | PK   |
| 6  |      | 5831.800        | 105.645                | 114.314              | N/A         | N/A            | -8.670        | PK   |
| 7  |      | 5895.000        | 60.871                 | 69.631               | -69.329     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 61.392                 | 70.006               | -46.808     | 108.200        | -8.614        | PK   |
| 9  |      | 5951.200        | 62.513                 | 71.000               | -45.687     | 108.200        | -8.487        | PK   |

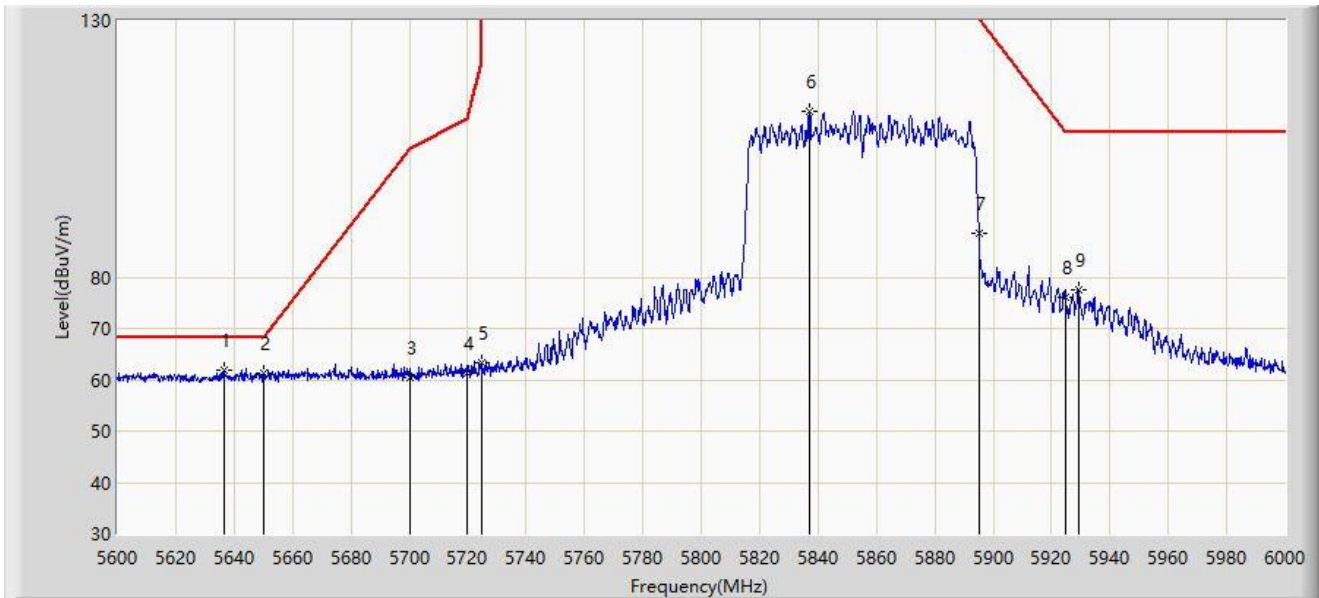
Note 1: " \* ", means this data is the worst emission level.

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: SIP-AC1                                   | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                          | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                     | Polarity: Horizontal  |
| EUT: ACCESS POINT                               | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE80 at 5855MHz |                       |



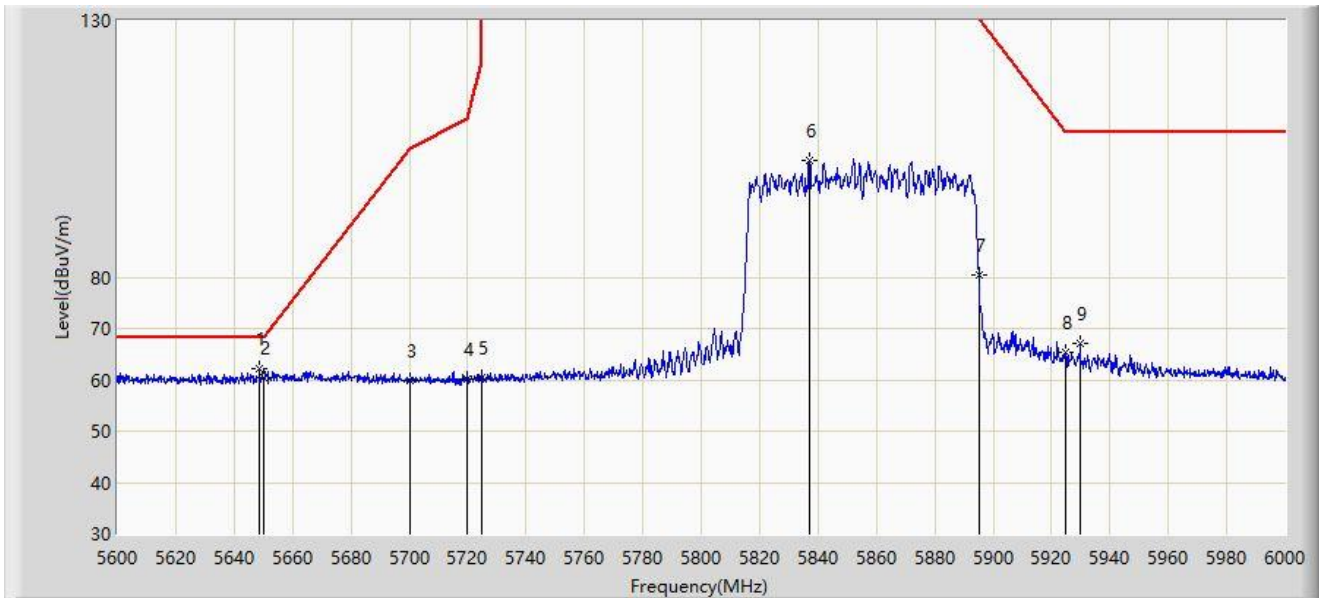
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5636.400        | 61.977                 | 71.158               | -6.223      | 68.200         | -9.182        | PK   |
| 2  |      | 5650.000        | 61.300                 | 70.268               | -6.900      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.334                 | 69.631               | -44.866     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 61.319                 | 70.612               | -49.481     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 63.216                 | 72.483               | -58.984     | 122.200        | -9.267        | PK   |
| 6  |      | 5837.000        | 112.243                | 120.833              | N/A         | N/A            | -8.590        | PK   |
| 7  |      | 5895.000        | 88.611                 | 97.371               | -41.589     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 76.202                 | 84.816               | -31.998     | 108.200        | -8.614        | PK   |
| 9  |      | 5929.400        | 77.449                 | 86.074               | -30.751     | 108.200        | -8.625        | 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: SIP-AC1                                   | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                          | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                     | Polarity: Vertical    |
| EUT: ACCESS POINT                               | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE80 at 5855MHz |                       |



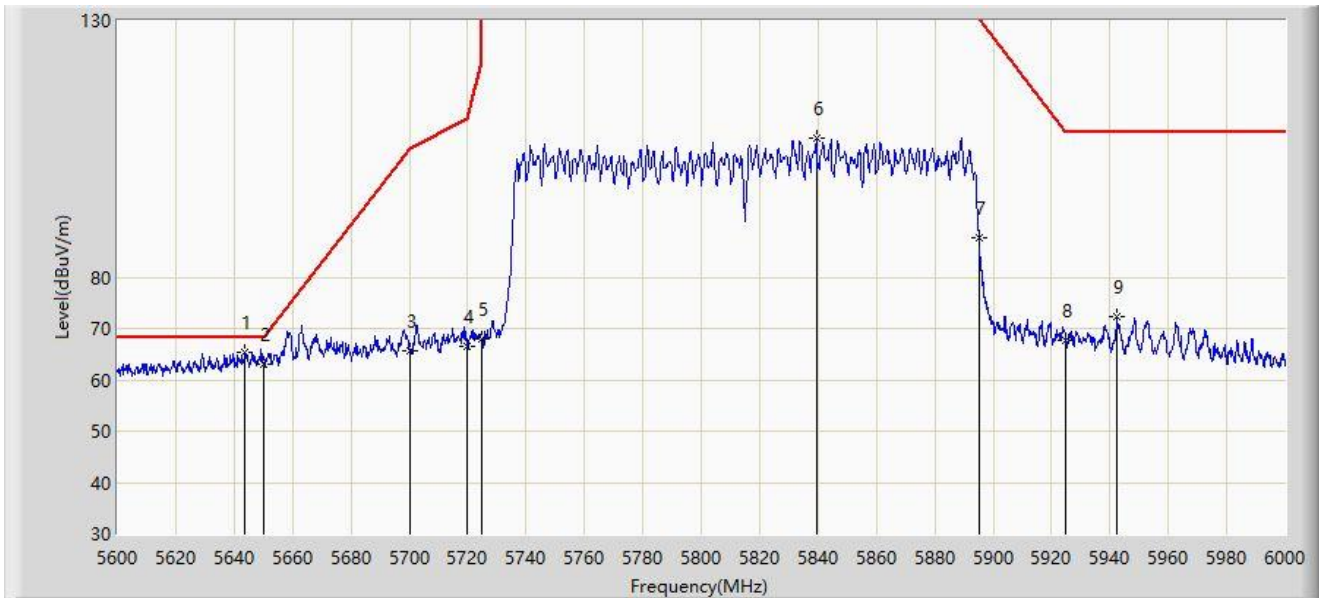
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5648.600        | 62.076                 | 71.070               | -6.124      | 68.200         | -8.994        | PK   |
| 2  |      | 5650.000        | 60.510                 | 69.478               | -7.690      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 59.718                 | 69.015               | -45.482     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 60.211                 | 69.504               | -50.589     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 60.410                 | 69.677               | -61.790     | 122.200        | -9.267        | PK   |
| 6  |      | 5837.200        | 102.845                | 111.432              | N/A         | N/A            | -8.587        | PK   |
| 7  |      | 5895.000        | 80.405                 | 89.165               | -49.795     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 65.259                 | 73.873               | -42.941     | 108.200        | -8.614        | PK   |
| 9  |      | 5929.800        | 67.177                 | 75.803               | -41.023     | 108.200        | -8.626        | 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: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Horizontal  |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE160 at 5815MHz |                       |



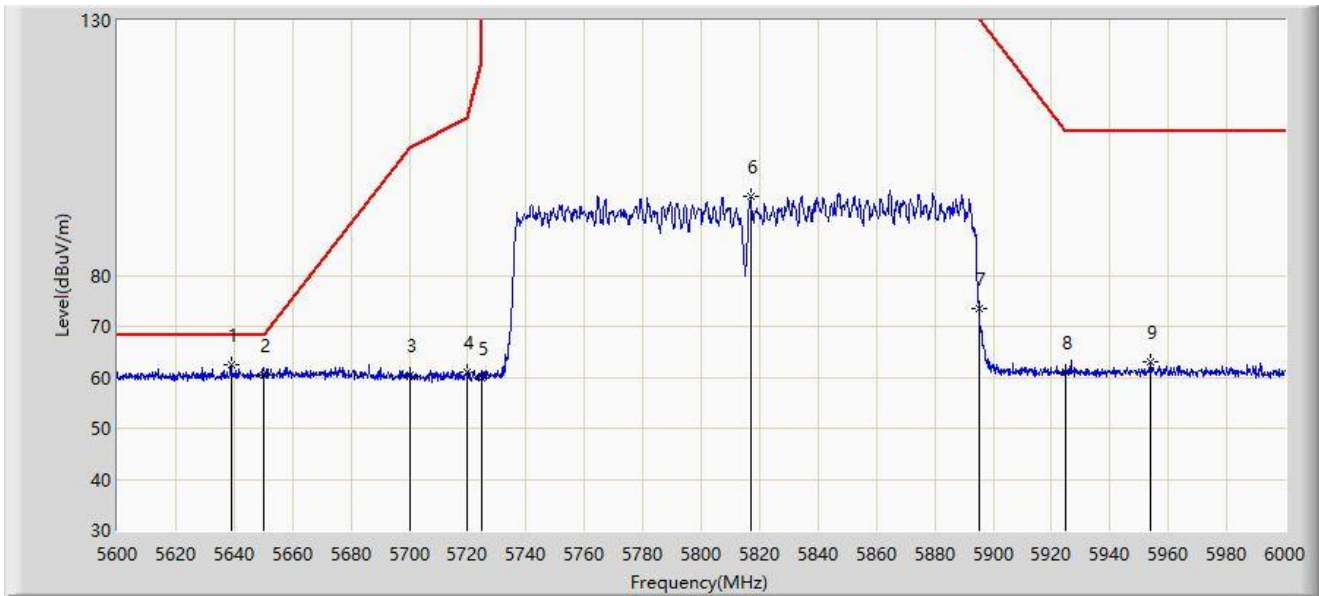
| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5643.800        | 65.322                 | 74.404               | -2.878      | 68.200         | -9.082        | PK   |
| 2  |      | 5650.000        | 62.925                 | 71.893               | -5.275      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 65.560                 | 74.857               | -39.640     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 66.515                 | 75.808               | -44.285     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 67.838                 | 77.105               | -54.362     | 122.200        | -9.267        | PK   |
| 6  |      | 5839.400        | 106.984                | 115.538              | N/A         | N/A            | -8.554        | PK   |
| 7  |      | 5895.000        | 87.562                 | 96.322               | -42.638     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 67.580                 | 76.194               | -40.620     | 108.200        | -8.614        | PK   |
| 9  |      | 5942.400        | 72.212                 | 80.781               | -35.988     | 108.200        | -8.569        | 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: SIP-AC1                                    | Test Date: 2023-10-23 |
| Limit: FCC_5.9G_RE(3m)                           | Engineer: Fusco Pan   |
| Probe: HF907_102862_1-18GHz                      | Polarity: Vertical    |
| EUT: ACCESS POINT                                | Power: By PoE         |
| Test Mode: Transmit by 802.11ax-HE160 at 5815MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV/m) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV/m) | Factor (dB/m) | Type |
|----|------|-----------------|------------------------|----------------------|-------------|----------------|---------------|------|
| 1  | *    | 5639.000        | 62.376                 | 71.531               | -5.824      | 68.200         | -9.155        | PK   |
| 2  |      | 5650.000        | 60.323                 | 69.291               | -7.877      | 68.200         | -8.968        | PK   |
| 3  |      | 5700.000        | 60.308                 | 69.605               | -44.892     | 105.200        | -9.297        | PK   |
| 4  |      | 5720.000        | 61.062                 | 70.355               | -49.738     | 110.800        | -9.293        | PK   |
| 5  |      | 5725.000        | 59.782                 | 69.049               | -62.418     | 122.200        | -9.267        | PK   |
| 6  |      | 5817.000        | 95.441                 | 104.303              | N/A         | N/A            | -8.863        | PK   |
| 7  |      | 5895.000        | 73.537                 | 82.297               | -56.663     | 130.200        | -8.760        | PK   |
| 8  |      | 5925.000        | 60.970                 | 69.584               | -47.230     | 108.200        | -8.614        | PK   |
| 9  |      | 5954.000        | 63.002                 | 71.449               | -45.198     | 108.200        | -8.446        | PK   |

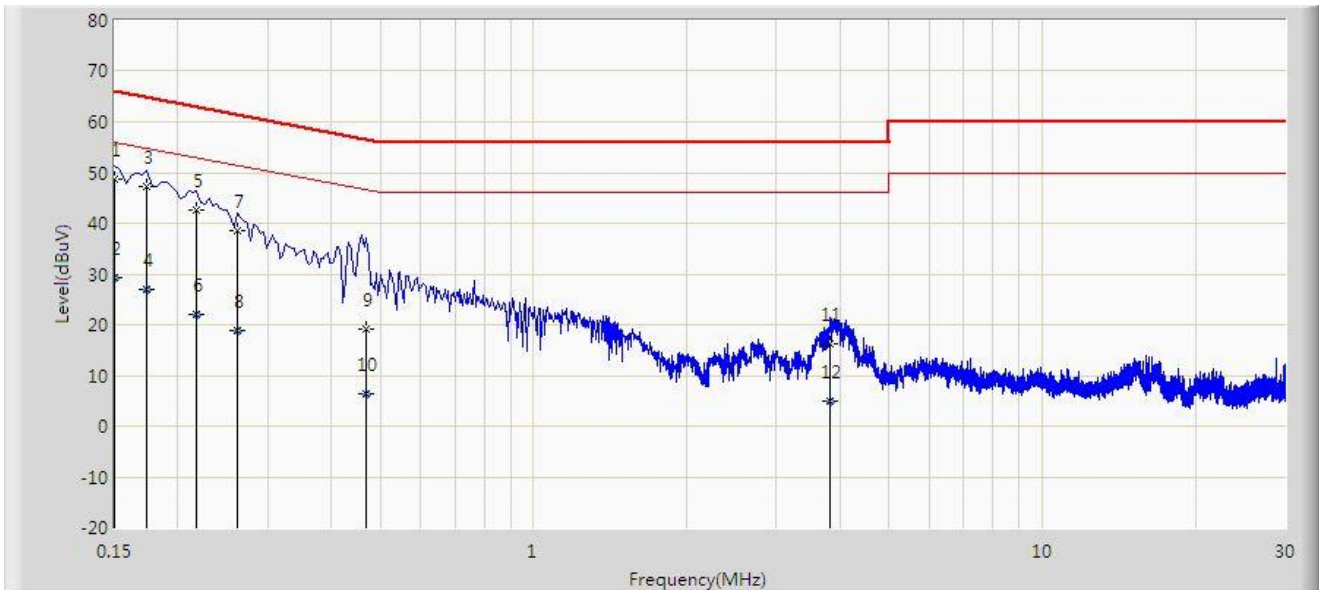
Note 1: " \* ", means this data is the worst emission level.

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).

### A.9 AC Conducted Emissions Test Result

|   |                       |
|---|-----------------------|
| Site: SIP-SR2                                   | Test Date: 2023-12-29 |
| Temperature: 17.6°C                             | Humidity: 49.1%       |
| Limit: FCC_Part15.207_CE_AC Power               | Engineer: Mark Long   |
| Probe: SIP-SR2-ENV216_101684_E                  | Polarity: Line        |
| EUT: ACCESS POINT                               | Power: AC 120V/60Hz   |
| Test Mode: Transmit by 802.11ax-HE20 at 5845MHz |                       |



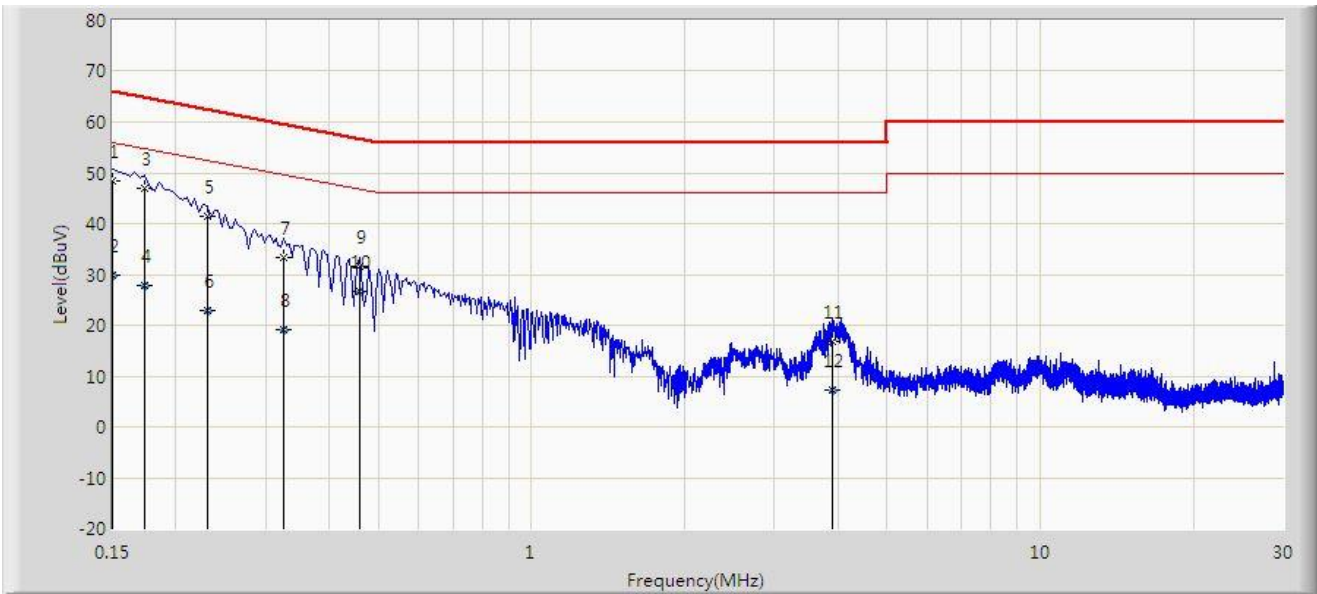
| No | Mark | Frequency (MHz) | Measure Level (dBμV) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1  |      | 0.150           | 48.619               | 38.967               | -17.381     | 66.000       | 9.651       | QP   |
| 2  |      | 0.150           | 29.233               | 19.582               | -26.767     | 56.000       | 9.651       | AV   |
| 3  | *    | 0.174           | 47.389               | 37.736               | -17.378     | 64.767       | 9.653       | QP   |
| 4  |      | 0.174           | 26.880               | 17.227               | -27.887     | 54.767       | 9.653       | AV   |
| 5  |      | 0.218           | 42.714               | 33.009               | -20.180     | 62.895       | 9.706       | QP   |
| 6  |      | 0.218           | 21.969               | 12.263               | -30.926     | 52.895       | 9.706       | AV   |
| 7  |      | 0.262           | 38.613               | 28.896               | -22.754     | 61.368       | 9.717       | QP   |
| 8  |      | 0.262           | 18.798               | 9.081                | -32.570     | 51.368       | 9.717       | AV   |
| 9  |      | 0.470           | 19.181               | 9.444                | -37.333     | 56.514       | 9.737       | QP   |
| 10 |      | 0.470           | 6.356                | -3.381               | -40.158     | 46.514       | 9.737       | AV   |
| 11 |      | 3.826           | 16.314               | 6.418                | -39.686     | 56.000       | 9.896       | QP   |
| 12 |      | 3.826           | 4.978                | -4.918               | -41.022     | 46.000       | 9.896       | AV   |

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

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

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

|   |                       |
|---|-----------------------|
| Site: SIP-SR2                                   | Test Date: 2023-12-29 |
| Temperature: 17.6°C                             | Humidity: 49.1%       |
| Limit: FCC_Part15.207_CE_AC Power               | Engineer: Mark Long   |
| Probe: SIP-SR2-ENV216_101684_E                  | Polarity: Neutral     |
| EUT: ACCESS POINT                               | Power: AC 120V/60Hz   |
| Test Mode: Transmit by 802.11ax-HE20 at 5845MHz |                       |



| No | Mark | Frequency (MHz) | Measure Level (dBμV) | Reading Level (dBμV) | Margin (dB) | Limit (dBμV) | Factor (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-------------|--------------|-------------|------|
| 1  | *    | 0.150           | 48.323               | 38.671               | -17.677     | 66.000       | 9.652       | QP   |
| 2  |      | 0.150           | 29.797               | 20.145               | -26.203     | 56.000       | 9.652       | AV   |
| 3  |      | 0.174           | 47.073               | 37.423               | -17.694     | 64.767       | 9.650       | QP   |
| 4  |      | 0.174           | 27.872               | 18.222               | -26.895     | 54.767       | 9.650       | AV   |
| 5  |      | 0.230           | 41.330               | 31.627               | -21.119     | 62.450       | 9.704       | QP   |
| 6  |      | 0.230           | 22.994               | 13.290               | -29.456     | 52.450       | 9.704       | AV   |
| 7  |      | 0.326           | 33.406               | 23.677               | -26.146     | 59.552       | 9.729       | QP   |
| 8  |      | 0.326           | 19.051               | 9.322                | -30.501     | 49.552       | 9.729       | AV   |
| 9  |      | 0.458           | 31.510               | 21.780               | -25.219     | 56.729       | 9.730       | QP   |
| 10 |      | 0.458           | 26.525               | 16.795               | -20.203     | 46.729       | 9.730       | AV   |
| 11 |      | 3.906           | 16.949               | 7.061                | -39.051     | 56.000       | 9.888       | QP   |
| 12 |      | 3.906           | 7.217                | -2.671               | -38.783     | 46.000       | 9.888       | AV   |

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

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

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

## **Appendix B – Test Setup Photograph**

Refer to “2308RSU066-UT” file.

## Appendix C – EUT Photograph

Refer to “2308RSU066-UE” file.

————— The End —————