

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

**Report No.:** RFBCKS-WTW-P22051021-4

**FCC ID:** TVE-3918T05646

**Product:** Secured Wireless Access Point

**Brand:** FORTINET

**Model No.:** FAP-431G, FAP-433G

**Variant Model:** FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)

**Received Date:** 2022/5/31

**Test Date:** 2022/9/13 ~ 2022/11/3

**Issued Date:** 2022/11/14

**Applicant:** Fortinet, Inc.

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**FCC Registration /**

**Designation Number(1):** 788550 / TW0003

**FCC Registration /**

**Designation Number(2):** 281270 / TW0032

**Approved by:**

*Jeremy Lin*

**Date:**

2022/11/14

Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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## Release Control Record

| Issue No.              | Description       | Date Issued |
|------------------------|-------------------|-------------|
| RFBCKS-WTW-P22051021-4 | Original release. | 2022/11/14  |

## 1 Certificate

**Product:** Secured Wireless Access Point

**Brand:** FORTINET

**Test Model:** FAP-431G, FAP-433G

**Variant Model:** FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)

**Sample Status:** Engineering sample

**Applicant:** Fortinet, Inc.

**Test Date:** 2022/9/13 ~ 2022/11/3

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

**Measurement procedure:** ANSI C63.10-2013  
KDB 291074 D02 EMC Measurement v01  
KDB 789033 D02 General UNII Test Procedure New Rules v02r01  
KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) |                                          |        |                                                                                                                                                                                                      |
|------------------------------------------------|------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clause                                         | Test Item                                | Result | Remark                                                                                                                                                                                               |
| 15.407(a)(3)                                   | RF Output Power                          | Pass   | Meet the requirement of limit.                                                                                                                                                                       |
| 15.407(a)(3)                                   | Power Spectral Density                   | Pass   | Meet the requirement of limit.                                                                                                                                                                       |
| 15.407(b)(9)                                   | AC Power Conducted Emissions             | Pass   | Minimum passing margin is -5.03 dB at 0.58874 MHz                                                                                                                                                    |
| 15.407(b)(9)                                   | Unwanted Emissions below 1 GHz           | Pass   | Minimum passing margin is -3.2 dB at 52.49 MHz                                                                                                                                                       |
| 15.407(b)(5)<br>15.407(b)(10)                  | Unwanted Emissions above 1 GHz           | Pass   | Minimum passing margin is -0.2 dB at 5647.37, 5931.90 MHz                                                                                                                                            |
| 15.407(e)                                      | 6 dB Bandwidth                           | Pass   | Meet the requirement of limit.                                                                                                                                                                       |
| 15.407(g)                                      | Frequency Stability                      | Pass   | Meet the requirement of limit.                                                                                                                                                                       |
| 15.403                                         | Operational restrictions U-NII 4 devices | -      | Declaration by applicant.                                                                                                                                                                            |
| 15.203                                         | Antenna Requirement                      | Pass   | For internal antenna:<br>Antenna connector is ipex(MHF) not a standard connector.<br>For external antenna:<br>Antenna connector is R-SMA(ANT0 ~ ANT3) & ipex (ANT4 ~ ANT7) not a standard connector. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                    | Specification   | Expanded Uncertainty (k=2)<br>(±) |
|--------------------------------|-----------------|-----------------------------------|
| AC Power Conducted Emissions   | 9 kHz ~ 30 MHz  | 2.99 dB                           |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz  | 3.00 dB                           |
|                                | 30 MHz ~ 1 GHz  | 2.93 dB                           |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz  | 1.76 dB                           |
|                                | 18 GHz ~ 40 GHz | 1.77 dB                           |

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

### 2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | Secured Wireless Access Point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Brand                 | FORTINET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Model            | FAP-431G, FAP-433G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Variant Model         | FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx, FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) (refer to item 3.1 for more details)                                                                                                                                                                                                                                                                                                                                                                                    |
| Model Difference      | Refer to note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Status of EUT         | Engineering sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Supply Rating   | 12Vdc from Adapter<br>55Vdc from PoE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Modulation Type       | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM<br>1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Modulation Technology | OFDM, OFDMA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Transfer Rate         | 802.11a: 54/48/36/24/18/12/9/6 Mbps<br>802.11n: up to 600 Mbps<br>802.11ac: up to 3466.7 Mbps<br>802.11ax: up to 4804 Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operating Frequency   | 5815 ~ 5885 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Number of Channel     | <u>Radio 2:</u><br>802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2<br>802.11ac (VHT80), 802.11ax (HE80): 1<br><u>Radio 3:</u><br>802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2<br>802.11ac (VHT80), 802.11ax (HE80): 1<br>802.11ac (VHT160), 802.11ax (HE160): 1<br><u>Scanning Radio:</u><br>802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 3<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2<br>802.11ac (VHT80), 802.11ax (HE80): 1<br>802.11ac (VHT160), 802.11ax (HE160): 1 |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Power | <b>Model: FAP-431G:</b><br>Radio 2:<br>CDD: EIRP 2393.316 mW (33.79 dBm)<br>Beamforming: EIRP 2328.091 mW (33.67 dBm)<br>Radio 3:<br>CDD: EIRP 1909.853 mW (32.81 dBm)<br>Beamforming: EIRP 1729.816 mW (32.38 dBm)<br>Scanning Radio:<br>CDD: EIRP 1442.115 mW (31.59 dBm)<br><b>Model: FAP-433G:</b><br>Radio 3:<br>CDD: EIRP 1035.142 mW (30.15 dBm)<br>Beamforming: EIRP 3630.781 mW (35.60 dBm)<br>Scanning Radio:<br>CDD: EIRP 744.732 mW (28.72 dBm) |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| EUT Category | Indoor access point                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Note:

- The following models are provided to this EUT. The model FAP-431G, FAP-433G were chosen for final test.

| Brand    | Test Model | Series Model                                                                                                                                                        | Difference       |
|----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Fortinet | FAP-431G   | FortiAP 431Gxxxxxx, FAP-431Gxxxxxx, FORTIAP-431Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) | internal antenna |
|          | FAP-433G   | FortiAP 433Gxxxxxx, FAP-433Gxxxxxx, FORTIAP-433Gxxxxxx (Where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only) | external antenna |

- The EUT consumes power from the following adapter and POE.

| Adapter (support units only) |                                              |
|------------------------------|----------------------------------------------|
| Brand                        | Asian Power Devices Inc.                     |
| Model                        | WA-48A12R                                    |
| Input Power                  | 100-240Vac, 50-60Hz, 1.5A Max                |
| Output Power                 | 12.0Vdc, 4.0A, 48.0W                         |
| Power Line                   | 1.47m cable without core attached on adapter |

| POE (support units only) |                               |
|--------------------------|-------------------------------|
| Brand                    | Microsemi                     |
| Model                    | PD-9501-10GC/AC               |
| Input Power              | 100-240Vac, 50-60Hz, 1.5A Max |
| Output Power             | 55Vdc, 1.1A                   |

- Radio 1, Radio 2, Radio 4 and (Radio 3 or Radio 3\_Scanning Radio) can transmit simultaneously.  
But Radio 1 (2.4G) and Radio 3\_Scanning Radio (2.4G) cannot transmit simultaneously.  
Radio 2 (5G), Radio 3 (5G) and Radio 3\_Scanning Radio (5G) cannot transmit in the same band simultaneously.  
Radio 3 (6G) and Radio 3\_Scanning Radio (6G) cannot transmit in the same band simultaneously.
- The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Model    | Radio                | Chip      | Mode     | Antennas    | Ant. Type                                          | Bands Supported                                     |
|----------|----------------------|-----------|----------|-------------|----------------------------------------------------|-----------------------------------------------------|
| FAP-433G | Radio 1              | QCN-5124  | 4x4 MIMO | ANT 0/1/2/3 | External                                           | 2.4GHz WLAN                                         |
|          | Radio 2              | QCN-5154  | 4x4 MIMO | ANT 0/1/2/3 | External                                           | NII-1, 3 WLAN up to 80 MHz                          |
|          | Radio 3_6G           | QCN-9074  | 4x4 MIMO | ANT 4/5/6/7 | Integrated<br>(Non-detachable<br>external antenna) | 6GHz WLAN                                           |
|          | Radio 3_5GH          | QCN-9074  | 4x4 MIMO | ANT 4/5/6/7 | Integrated<br>(Non-detachable<br>external antenna) | NII-3 WLAN up to 80 MHz<br>NII-4 WLAN up to 160 MHz |
|          | Radio 3<br>_Scanning | QCN-9074  | 2x2 MIMO | ANT 4/6     | Integrated<br>(Non-detachable<br>external antenna) | 2.4 GHz WLAN,<br>NII-1, 3, 4 WLAN,<br>6GHz WLAN     |
|          | Radio 4              | EFR32MG21 | -        | ANT 8       | Integrated                                         | BT / Zigbee                                         |
| FAP-431G | Radio 1              | QCN-5124  | 4x4 MIMO | ANT 0/1/2/3 | Integrated                                         | 2.4GHz WLAN                                         |
|          | Radio 2              | QCN-5154  | 4x4 MIMO | ANT 0/1/2/3 | Integrated                                         | NII-1, 3, 4 WLAN up to 80 MHz                       |
|          | Radio 3_6G           | QCN-9074  | 4x4 MIMO | ANT 4/5/6/7 | Integrated                                         | 6GHz WLAN                                           |
|          | Radio 3_5GH          | QCN-9074  | 4x4 MIMO | ANT 4/5/6/7 | Integrated                                         | NII-3 WLAN up to 80 MHz<br>NII-4 WLAN up to 160 MHz |
|          | Radio 3<br>_Scanning | QCN-9074  | 2x2 MIMO | ANT 4/6     | Integrated                                         | 2.4 GHz WLAN,<br>NII-1, 3, 4 WLAN,<br>6GHz WLAN     |
|          | Radio 4              | EFR32MG21 | -        | ANT 8       | Integrated                                         | BT / Zigbee                                         |

**Model: FAP-431G**

| Antenna Type   |                                                                  | PIFA      |              |                        |                 |
|----------------|------------------------------------------------------------------|-----------|--------------|------------------------|-----------------|
| Connector Type |                                                                  | ipex(MHF) |              |                        |                 |
| Antenna No.    | RF Chain No.                                                     | Brand     | Model        | Antenna Net Gain (dBi) | Frequency range |
| ANT0 (DB4)     | Radio 1 2G CH0<br>Radio 2 5G CH0<br>Radio 2 5GL CH0              | WNC       | FortiAP-431G | 1.41                   | 2.4~2.4835GHz   |
|                |                                                                  |           |              | 4.62                   | 5.15~5.25GHz    |
|                |                                                                  |           |              | 4.62                   | 5.25~5.35GHz    |
|                |                                                                  |           |              | 4.35                   | 5.47~5.725GHz   |
|                |                                                                  |           |              | 3.91                   | 5.725~5.85GHz   |
|                |                                                                  |           |              | 3.91                   | 5.85~5.895GHz   |
| ANT1 (DB3)     | Radio 1 2G CH1<br>Radio 2 5G CH1<br>Radio 2 5GL CH1              | WNC       | FortiAP-431G | 1.72                   | 2.4~2.4835GHz   |
|                |                                                                  |           |              | 3.38                   | 5.15~5.25GHz    |
|                |                                                                  |           |              | 3.61                   | 5.25~5.35GHz    |
|                |                                                                  |           |              | 3.72                   | 5.47~5.725GHz   |
|                |                                                                  |           |              | 3.72                   | 5.725~5.85GHz   |
|                |                                                                  |           |              | 3.72                   | 5.85~5.895GHz   |
| ANT2 (DB1)     | Radio 1 2G CH2<br>Radio 2 5G CH2<br>Radio 2 5GL CH2              | WNC       | FortiAP-431G | 1.54                   | 2.4~2.4835GHz   |
|                |                                                                  |           |              | 4.85                   | 5.15~5.25GHz    |
|                |                                                                  |           |              | 4.85                   | 5.25~5.35GHz    |
|                |                                                                  |           |              | 4.51                   | 5.47~5.725GHz   |
|                |                                                                  |           |              | 4.30                   | 5.725~5.85GHz   |
|                |                                                                  |           |              | 4.30                   | 5.85~5.895GHz   |
| ANT3 (DB2)     | Radio 1 2G CH3<br>Radio 2 5G CH3<br>Radio 2 5GL CH3              | WNC       | FortiAP-431G | 2.38                   | 2.4~2.4835GHz   |
|                |                                                                  |           |              | 3.48                   | 5.15~5.25GHz    |
|                |                                                                  |           |              | 3.52                   | 5.25~5.35GHz    |
|                |                                                                  |           |              | 3.58                   | 5.47~5.725GHz   |
|                |                                                                  |           |              | 3.55                   | 5.725~5.85GHz   |
|                |                                                                  |           |              | 3.55                   | 5.85~5.895GHz   |
| ANT4 (TB4)     | Radio 3 5GH CH0<br>Radio 3 6G CH0<br>Scanning Radio (2/5/6G) CH0 | WNC       | FortiAP-431G | 3.50                   | 2.4~2.4835GHz   |
|                |                                                                  |           |              | 4.98                   | 5.15~5.25GHz    |
|                |                                                                  |           |              | 4.98                   | 5.25~5.35GHz    |
|                |                                                                  |           |              | 4.98                   | 5.47~5.725GHz   |
|                |                                                                  |           |              | 4.50                   | 5.725~5.85GHz   |
|                |                                                                  |           |              | 4.50                   | 5.85~5.895GHz   |
|                |                                                                  |           |              | 4.80                   | 5.925~6.425GHz  |
|                |                                                                  |           |              | 4.80                   | 6.425~6.525GHz  |
|                |                                                                  |           |              | 5.50                   | 6.525~6.875GHz  |
|                |                                                                  |           |              | 5.50                   | 6.875~7.125GHz  |

| Antenna No. | RF Chain No.                                                        | Brand | Model        | Antenna Net Gain (dBi) | Frequency range |
|-------------|---------------------------------------------------------------------|-------|--------------|------------------------|-----------------|
| ANT5 (TB1)  | Radio 3 5GH CH1<br>Radio 3 6G CH1                                   | WNC   | FortiAP-431G | 4.76                   | 5.47~5.725GHz   |
|             |                                                                     |       |              | 4.38                   | 5.725~5.85GHz   |
|             |                                                                     |       |              | 4.38                   | 5.85~5.895GHz   |
|             |                                                                     |       |              | 4.32                   | 5.925~6.425GHz  |
|             |                                                                     |       |              | 4.32                   | 6.425~6.525GHz  |
|             |                                                                     |       |              | 4.84                   | 6.525~6.875GHz  |
|             |                                                                     |       |              | 4.84                   | 6.875~7.125GHz  |
| ANT6 (TB2)  | Radio 3 5GH CH2<br>Radio 3 6G CH2<br>Scanning Radio<br>(2/5/6G) CH1 | WNC   | FortiAP-431G | 2.58                   | 2.4~2.4835GHz   |
|             |                                                                     |       |              | 4.47                   | 5.15~5.25GHz    |
|             |                                                                     |       |              | 4.81                   | 5.25~5.35GHz    |
|             |                                                                     |       |              | 5.30                   | 5.47~5.725GHz   |
|             |                                                                     |       |              | 5.30                   | 5.725~5.85GHz   |
|             |                                                                     |       |              | 5.30                   | 5.85~5.895GHz   |
|             |                                                                     |       |              | 4.60                   | 5.925~6.425GHz  |
|             |                                                                     |       |              | 4.60                   | 6.425~6.525GHz  |
|             |                                                                     |       |              | 5.20                   | 6.525~6.875GHz  |
|             |                                                                     |       |              | 5.20                   | 6.875~7.125GHz  |
| ANT7 (TB3)  | Radio 3 5GH CH3<br>Radio 3 6G CH3                                   | WNC   | FortiAP-431G | 5.09                   | 5.47~5.725GHz   |
|             |                                                                     |       |              | 5.09                   | 5.725~5.85GHz   |
|             |                                                                     |       |              | 5.09                   | 5.85~5.895GHz   |
|             |                                                                     |       |              | 4.20                   | 5.925~6.425GHz  |
|             |                                                                     |       |              | 3.94                   | 6.425~6.525GHz  |
|             |                                                                     |       |              | 4.50                   | 6.525~6.875GHz  |
|             |                                                                     |       |              | 4.50                   | 6.875~7.125GHz  |

### Radio 1

| Antenna Gain   | Directional Gain (dBi) |
|----------------|------------------------|
| 2400~2483.5MHz | 6.37                   |

### Radio 2

| Antenna Gain | Directional Gain (dBi) |
|--------------|------------------------|
| 5150~5250MHz | 6.94                   |
| 5250~5350MHz | 6.98                   |
| 5470~5725MHz | 6.06                   |
| 5725~5850MHz | 6.31                   |
| 5850~5895MHz | 6.03                   |

### Radio 3

| Antenna Gain | Directional Gain (dBi) |
|--------------|------------------------|
| 5470~5725MHz | 7.11                   |
| 5725~5850MHz | 6.91                   |
| 5850~5895MHz | 6.61                   |
| 5925~6425MHz | 6.37                   |
| 6425~6525MHz | 6.98                   |
| 6525~6875MHz | 7.11                   |
| 6875~7125MHz | 7.62                   |

### Scanning Radio

| Antenna Gain   | Directional Gain (dBi) |
|----------------|------------------------|
| 2400~2483.5MHz | 0.84                   |
| 5150~5250MHz   | 1.87                   |
| 5250~5350MHz   | 1.82                   |
| 5470~5725MHz   | 2.10                   |
| 5725~5850MHz   | 1.57                   |
| 5850~5895MHz   | 1.49                   |
| 5925~6425MHz   | 4.51                   |
| 6425~6525MHz   | 4.57                   |
| 6525~6875MHz   | 5.03                   |
| 6875~7125MHz   | 5.12                   |

\* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

**Model: FAP-433G**

| Antenna Type   |                                                                     | Dipole                                  |                    |                        |                 |
|----------------|---------------------------------------------------------------------|-----------------------------------------|--------------------|------------------------|-----------------|
| Connector Type |                                                                     | R-SMA (ANT0 ~ ANT3); ipex (ANT4 ~ ANT7) |                    |                        |                 |
| Antenna No.    | RF Chain No.                                                        | Brand                                   | Model              | Antenna Net Gain (dBi) | Frequency range |
| ANT0           | Radio 1 2G CH0<br>Radio 2 5G CH0<br>Radio 2 5GL CH0                 | MAGLAYERS                               | EDA-1410-6G0R2-A3  | 5.65                   | 2.4~2.4835GHz   |
|                |                                                                     |                                         |                    | 5.31                   | 5.15~5.25GHz    |
|                |                                                                     |                                         |                    | 5.37                   | 5.25~5.35GHz    |
|                |                                                                     |                                         |                    | 5.94                   | 5.47~5.725GHz   |
|                |                                                                     |                                         |                    | 5.45                   | 5.725~5.85GHz   |
| ANT1           | Radio 1 2G CH1<br>Radio 2 5G CH1<br>Radio 2 5GL CH1                 | MAGLAYERS                               | EDA-1410-6G0R2-A3  | 5.65                   | 2.4~2.4835GHz   |
|                |                                                                     |                                         |                    | 5.31                   | 5.15~5.25GHz    |
|                |                                                                     |                                         |                    | 5.37                   | 5.25~5.35GHz    |
|                |                                                                     |                                         |                    | 5.94                   | 5.47~5.725GHz   |
|                |                                                                     |                                         |                    | 5.45                   | 5.725~5.85GHz   |
| ANT2           | Radio 1 2G CH2<br>Radio 2 5G CH2<br>Radio 2 5GL CH2                 | MAGLAYERS                               | EDA-1410-6G0R2-A3  | 5.65                   | 2.4~2.4835GHz   |
|                |                                                                     |                                         |                    | 5.31                   | 5.15~5.25GHz    |
|                |                                                                     |                                         |                    | 5.37                   | 5.25~5.35GHz    |
|                |                                                                     |                                         |                    | 5.94                   | 5.47~5.725GHz   |
|                |                                                                     |                                         |                    | 5.45                   | 5.725~5.85GHz   |
| ANT3           | Radio 1 2G CH3<br>Radio 2 5G CH3<br>Radio 2 5GL CH3                 | MAGLAYERS                               | EDA-1410-6G0R2-A3  | 5.65                   | 2.4~2.4835GHz   |
|                |                                                                     |                                         |                    | 5.31                   | 5.15~5.25GHz    |
|                |                                                                     |                                         |                    | 5.37                   | 5.25~5.35GHz    |
|                |                                                                     |                                         |                    | 5.94                   | 5.47~5.725GHz   |
|                |                                                                     |                                         |                    | 5.45                   | 5.725~5.85GHz   |
| ANT4           | Radio 3 5GH CH0<br>Radio 3 6G CH0<br>Scanning Radio<br>(2/5/6G) CH0 | MAGLAYERS                               | BTEAWT14136G0C1A02 | 3.11                   | 2.4~2.4835GHz   |
|                |                                                                     |                                         |                    | 2.27                   | 5.15~5.25GHz    |
|                |                                                                     |                                         |                    | 2.27                   | 5.25~5.35GHz    |
|                |                                                                     |                                         |                    | 2.81                   | 5.47~5.725GHz   |
|                |                                                                     |                                         |                    | 2.81                   | 5.725~5.85GHz   |
|                |                                                                     |                                         |                    | 2.81                   | 5.85~5.895GHz   |
|                |                                                                     |                                         |                    | 2.55                   | 5.925~6.425GHz  |
|                |                                                                     |                                         |                    | 2.55                   | 6.425~6.525GHz  |
|                |                                                                     |                                         |                    | 2.74                   | 6.525~6.875GHz  |
|                |                                                                     |                                         |                    | 2.74                   | 6.875~7.125GHz  |

| Antenna No. | RF Chain No.                                                        | Brand     | Model              | Antenna Net Gain (dBi) | Frequency range |
|-------------|---------------------------------------------------------------------|-----------|--------------------|------------------------|-----------------|
| ANT5        | Radio 3 5GH CH1<br>Radio 3 6G CH1                                   | MAGLAYERS | BTEAWT14136G0C1A02 | 2.81                   | 5.47~5.725GHz   |
|             |                                                                     |           |                    | 2.81                   | 5.725~5.85GHz   |
|             |                                                                     |           |                    | 2.81                   | 5.85~5.895GHz   |
|             |                                                                     |           |                    | 2.55                   | 5.925~6.425GHz  |
|             |                                                                     |           |                    | 2.55                   | 6.425~6.525GHz  |
|             |                                                                     |           |                    | 2.74                   | 6.525~6.875GHz  |
|             |                                                                     |           |                    | 2.74                   | 6.875~7.125GHz  |
| ANT6        | Radio 3 5GH CH2<br>Radio 3 6G CH2<br>Scanning Radio<br>(2/5/6G) CH1 | MAGLAYERS | BTEAWT14136G0C1A01 | 2.81                   | 2.4~2.4835GHz   |
|             |                                                                     |           |                    | 2.39                   | 5.15~5.25GHz    |
|             |                                                                     |           |                    | 2.39                   | 5.25~5.35GHz    |
|             |                                                                     |           |                    | 2.39                   | 5.47~5.725GHz   |
|             |                                                                     |           |                    | 2.39                   | 5.725~5.85GHz   |
|             |                                                                     |           |                    | 2.21                   | 5.85~5.895GHz   |
|             |                                                                     |           |                    | 2.71                   | 5.925~6.425GHz  |
|             |                                                                     |           |                    | 2.71                   | 6.425~6.525GHz  |
|             |                                                                     |           |                    | 2.61                   | 6.525~6.875GHz  |
|             |                                                                     |           |                    | 2.61                   | 6.875~7.125GHz  |
| ANT7        | Radio 3 5GH CH3<br>Radio 3 6G CH3                                   | MAGLAYERS | BTEAWT14136G0C1A01 | 2.39                   | 5.47~5.725GHz   |
|             |                                                                     |           |                    | 2.39                   | 5.725~5.85GHz   |
|             |                                                                     |           |                    | 2.21                   | 5.85~5.895GHz   |
|             |                                                                     |           |                    | 2.71                   | 5.925~6.425GHz  |
|             |                                                                     |           |                    | 2.71                   | 6.425~6.525GHz  |
|             |                                                                     |           |                    | 2.61                   | 6.525~6.875GHz  |
|             |                                                                     |           |                    | 2.61                   | 6.875~7.125GHz  |

### Radio 1

| Antenna Gain   | Directional Gain (dBi) |
|----------------|------------------------|
| 2400~2483.5MHz | 6.59                   |

### Radio 2

| Antenna Gain | Directional Gain (dBi) |
|--------------|------------------------|
| 5150~5250MHz | 7.06                   |
| 5250~5350MHz | 7.16                   |
| 5470~5725MHz | 7.52                   |
| 5725~5850MHz | 7.16                   |

### Radio 3

| Antenna Gain | Directional Gain (dBi) |
|--------------|------------------------|
| 5470~5725MHz | 8.35                   |
| 5725~5850MHz | 8.26                   |
| 5850~5895MHz | 8.10                   |
| 5925~6425MHz | 7.12                   |
| 6425~6525MHz | 7.29                   |
| 6525~6875MHz | 7.33                   |
| 6875~7125MHz | 7.43                   |

### Scanning Radio

| Antenna Gain   | Directional Gain (dBi) |
|----------------|------------------------|
| 2400~2483.5MHz | 1.41                   |
| 5150~5250MHz   | 2.04                   |
| 5250~5350MHz   | 2.09                   |
| 5470~5725MHz   | 2.51                   |
| 5725~5850MHz   | 2.30                   |
| 5850~5895MHz   | 2.10                   |
| 5925~6425MHz   | 4.48                   |
| 6425~6525MHz   | 4.28                   |
| 6525~6875MHz   | 4.76                   |
| 6875~7125MHz   | 4.17                   |

\* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

| 5 GHz Band |                  |                       |     |
|------------|------------------|-----------------------|-----|
| Radio      | Modulation Mode  | Tx & Rx Configuration |     |
| Radio 2    | 802.11a          | 4TX                   | 4RX |
|            | 802.11n (HT20)   | 4TX                   | 4RX |
|            | 802.11n (HT40)   | 4TX                   | 4RX |
|            | 802.11ac (VHT20) | 4TX                   | 4RX |
|            | 802.11ac (VHT40) | 4TX                   | 4RX |
|            | 802.11ac (VHT80) | 4TX                   | 4RX |
|            | 802.11ax (HE20)  | 4TX                   | 4RX |
|            | 802.11ax (HE40)  | 4TX                   | 4RX |
|            | 802.11ax (HE80)  | 4TX                   | 4RX |

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The EUT device modulation technique OFDMA does not support partial RUs (resource units).

| 5 GHz Band |                   |                       |     |
|------------|-------------------|-----------------------|-----|
| Radio      | Modulation Mode   | Tx & Rx Configuration |     |
| Radio 3    | 802.11a           | 4TX                   | 4RX |
|            | 802.11n (HT20)    | 4TX                   | 4RX |
|            | 802.11n (HT40)    | 4TX                   | 4RX |
|            | 802.11ac (VHT20)  | 4TX                   | 4RX |
|            | 802.11ac (VHT40)  | 4TX                   | 4RX |
|            | 802.11ac (VHT80)  | 4TX                   | 4RX |
|            | 802.11ac (VHT160) | 4TX                   | 4RX |
|            | 802.11ax (HE20)   | 4TX                   | 4RX |
|            | 802.11ax (HE40)   | 4TX                   | 4RX |
|            | 802.11ax (HE80)   | 4TX                   | 4RX |
|            | 802.11ax (HE160)  | 4TX                   | 4RX |

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The EUT device modulation technique OFDMA does not support partial RUs (resource units).

| 5 GHz Band                                                                                     |                   |                       |     |
|------------------------------------------------------------------------------------------------|-------------------|-----------------------|-----|
| Radio                                                                                          | Modulation Mode   | Tx & Rx Configuration |     |
| Scanning Radio                                                                                 | 802.11a           | 2TX                   | 2RX |
|                                                                                                | 802.11n (HT20)    | 2TX                   | 2RX |
|                                                                                                | 802.11n (HT40)    | 2TX                   | 2RX |
|                                                                                                | 802.11ac (VHT20)  | 2TX                   | 2RX |
|                                                                                                | 802.11ac (VHT40)  | 2TX                   | 2RX |
|                                                                                                | 802.11ac (VHT80)  | 2TX                   | 2RX |
|                                                                                                | 802.11ac (VHT160) | 2TX                   | 2RX |
|                                                                                                | 802.11ax (HE20)   | 2TX                   | 2RX |
|                                                                                                | 802.11ax (HE40)   | 2TX                   | 2RX |
|                                                                                                | 802.11ax (HE80)   | 2TX                   | 2RX |
|                                                                                                | 802.11ax (HE160)  | 2TX                   | 2RX |
| Note: The EUT device modulation technique OFDMA does not support partial RUs (resource units). |                   |                       |     |

### 3.3 Channel List

#### For 5845 ~ 5885 MHz

3 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

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

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

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

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

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

Note: \* U-NII-3 & -4 span channels.

### 3.4 Test Mode Applicability and Tested Channel Detail

|             |                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Scan:   | EUT can be used in the following ways: X-axis / Y-axis / Z-axis. Pre-scan in these ways and find the worst case as a representative test condition. |
| Worst Case: | Worst Condition: Y-axis (For Model: FAP-431G), X-axis (For Model: FAP-433G)                                                                         |

Following channel(s) was (were) selected for the final test as listed below:

| Test Item              | EUT Configure Mode | Mode              | Signal Mode       | Tested Channel | Modulation | Data Rate Parameter |
|------------------------|--------------------|-------------------|-------------------|----------------|------------|---------------------|
| RF Output Power        | A, C, G            | 802.11a           | CDD               | 169, 173, 177  | BPSK       | 6Mb/s               |
|                        |                    | 802.11n (HT20)    | CDD & Beamforming | 169, 173, 177  | BPSK       | MCS0                |
|                        |                    | 802.11n (HT40)    | CDD & Beamforming | 167, 175       | BPSK       | MCS0                |
|                        |                    | 802.11ac (VHT20)  | CDD & Beamforming | 169, 173, 177  | BPSK       | MCS0                |
|                        |                    | 802.11ac (VHT40)  | CDD & Beamforming | 167, 175       | BPSK       | MCS0                |
|                        |                    | 802.11ac (VHT80)  | CDD & Beamforming | 171            | BPSK       | MCS0                |
|                        | C, G               | 802.11ac (VHT160) | CDD & Beamforming | 163            | BPSK       | MCS0                |
|                        | A, C, G            | 802.11ax (HE20)   | CDD & Beamforming | 169, 173, 177  | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE40)   | CDD & Beamforming | 167, 175       | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE80)   | CDD & Beamforming | 171            | BPSK       | MCS0                |
|                        | C, G               | 802.11ax (HE160)  | CDD & Beamforming | 163            | BPSK       | MCS0                |
|                        | E, I               | 802.11a           | CDD               | 169, 173, 177  | BPSK       | 6Mb/s               |
|                        |                    | 802.11n (HT20)    | CDD               | 169, 173, 177  | BPSK       | MCS0                |
|                        |                    | 802.11n (HT40)    | CDD               | 167, 175       | BPSK       | MCS0                |
|                        |                    | 802.11ac (VHT20)  | CDD               | 169, 173, 177  | BPSK       | MCS0                |
|                        |                    | 802.11ac (VHT40)  | CDD               | 167, 175       | BPSK       | MCS0                |
|                        |                    | 802.11ac (VHT80)  | CDD               | 171            | BPSK       | MCS0                |
|                        |                    | 802.11ac (VHT160) | CDD               | 163            | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE20)   | CDD               | 169, 173, 177  | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE40)   | CDD               | 167, 175       | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE80)   | CDD               | 171            | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE160)  | CDD               | 163            | BPSK       | MCS0                |
| Power Spectral Density | A, C, E, G, I      | 802.11a           | CDD               | 169, 173, 177  | BPSK       | 6Mb/s               |
|                        |                    | 802.11ax (HE20)   | CDD               | 169, 173, 177  | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE40)   | CDD               | 167, 175       | BPSK       | MCS0                |
|                        |                    | 802.11ax (HE80)   | CDD               | 171            | BPSK       | MCS0                |
|                        | C, E, G, I         | 802.11ax (HE160)  | CDD               | 163            | BPSK       | MCS0                |

| Test Item                      | EUT Configure Mode           | Mode                      | Signal Mode | Tested Channel     | Modulation    | Data Rate Parameter |
|--------------------------------|------------------------------|---------------------------|-------------|--------------------|---------------|---------------------|
| 6 dB Bandwidth                 | A, C, E, G, I                | 802.11a                   | CDD         | 169, 173, 177      | BPSK          | 6Mb/s               |
|                                |                              | 802.11ax (HE20)           | CDD         | 169, 173, 177      | BPSK          | MCS0                |
|                                |                              | 802.11ax (HE40)           | CDD         | 167, 175           | BPSK          | MCS0                |
|                                |                              | 802.11ax (HE80)           | CDD         | 171                | BPSK          | MCS0                |
|                                | C, E, G, I                   | 802.11ax (HE160)          | CDD         | 163                | BPSK          | MCS0                |
| Frequency Stability            | A, C, E, G, I                | 802.11a                   | CDD         | 169                | un-modulation | -                   |
| AC Power Conducted Emissions   | A, B, C, D, E, F, G, H, I, J | 802.11ax (HE40)           | CDD         | 167                | BPSK          | MCS0                |
| Unwanted Emissions below 1 GHz | A, B, C, D, E, F, G, H, I, J | 802.11ax (HE40)           | CDD         | 167                | BPSK          | MCS0                |
| Unwanted Emissions above 1 GHz | A, C, E, G, I                | 802.11a                   | CDD         | 169, 173, 177      | BPSK          | 6Mb/s               |
|                                |                              | 802.11ax (HE20)           | CDD         | 169, 173, 177      | BPSK          | MCS0                |
|                                |                              | 802.11ax (HE40)           | CDD         | 167, 175           | BPSK          | MCS0                |
|                                |                              | 802.11ax (HE80)           | CDD         | 171                | BPSK          | MCS0                |
|                                | C, E, G, I                   | 802.11ax (HE160)          | CDD         | 163                | BPSK          | MCS0                |
| EUT Configure Mode:            | Mode                         | EUT Model / Radio         |             | Power              |               |                     |
|                                | A                            | FAP-431G / Radio2         |             | Power from adapter |               |                     |
|                                | B                            |                           |             | Power from PoE     |               |                     |
|                                | C                            | FAP-431G / Radio3         |             | Power from adapter |               |                     |
|                                | D                            |                           |             | Power from PoE     |               |                     |
|                                | E                            | FAP-431G / Scanning Radio |             | Power from adapter |               |                     |
|                                | F                            |                           |             | Power from PoE     |               |                     |
|                                | G                            | FAP-433G / Radio3         |             | Power from adapter |               |                     |
|                                | H                            |                           |             | Power from PoE     |               |                     |
|                                | I                            | FAP-433G / Scanning Radio |             | Power from adapter |               |                     |
|                                | J                            |                           |             | Power from PoE     |               |                     |

Note: Scanning Radio does not support Beamformig mode.

### 3.5 Duty Cycle of Test Signal

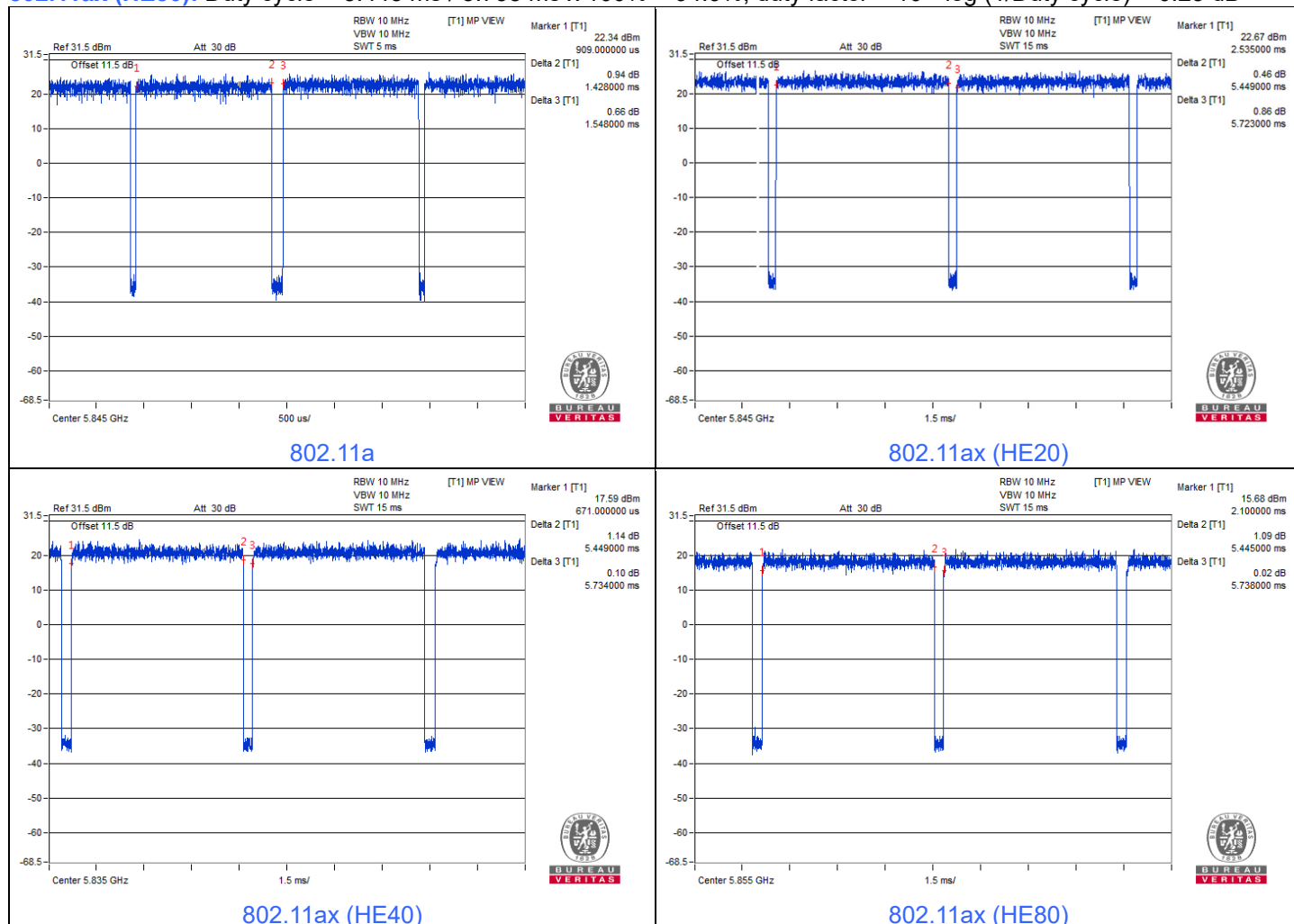
#### FAP-431G\_Radio 2 (Test Mode A)

**802.11a:** Duty cycle =  $1.428 \text{ ms} / 1.548 \text{ ms} \times 100\% = 92.2\%$ , duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.35 \text{ dB}$

**802.11ax (HE20):** Duty cycle =  $5.449 \text{ ms} / 5.723 \text{ ms} \times 100\% = 95.2\%$ , duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.21 \text{ dB}$

**802.11ax (HE40):** Duty cycle =  $5.449 \text{ ms} / 5.734 \text{ ms} \times 100\% = 95.0\%$ , duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.22 \text{ dB}$

**802.11ax (HE80):** Duty cycle =  $5.445 \text{ ms} / 5.738 \text{ ms} \times 100\% = 94.9\%$ , duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.23 \text{ dB}$



## FAP-431G\_Radio 3 (Test Mode C)

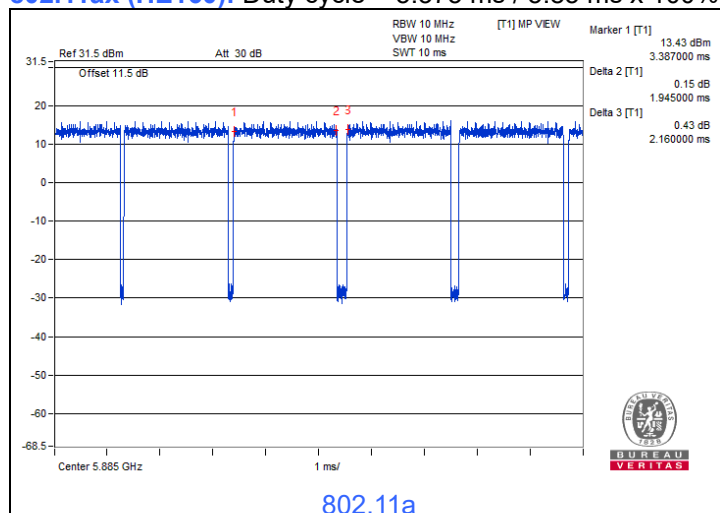
**802.11a:** Duty cycle = 1.945 ms / 2.16 ms x 100% = 90.0%, duty factor = 10 \* log (1/Duty cycle) = 0.46 dB

**802.11ax (HE20):** Duty cycle = 5.388 ms / 6.363 ms x 100% = 84.7%, duty factor = 10 \* log (1/Duty cycle) = 0.72 dB

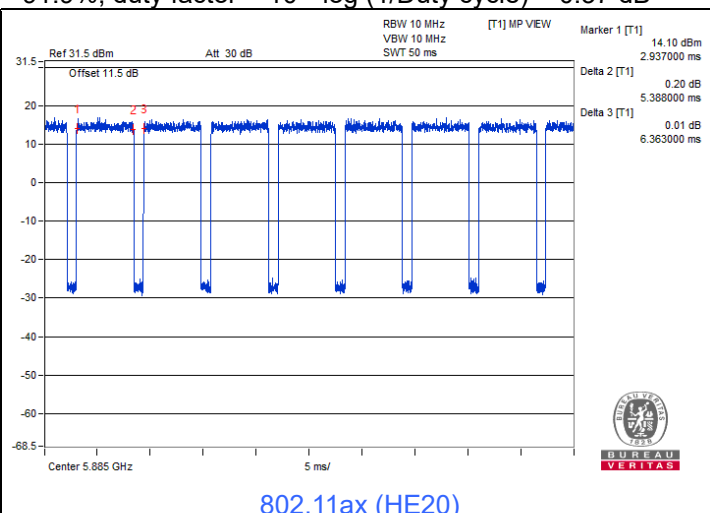
**802.11ax (HE40):** Duty cycle = 5.363 ms / 6.338 ms x 100% = 84.6%, duty factor = 10 \* log (1/Duty cycle) = 0.73 dB

**802.11ax (HE80):** Duty cycle = 5.3 ms / 6.325 ms x 100% = 83.8%, duty factor = 10 \* log (1/Duty cycle) = 0.77 dB

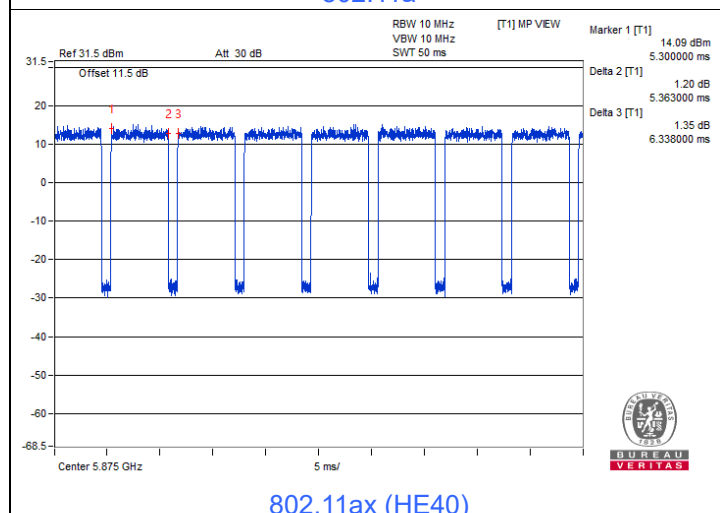
**802.11ax (HE160):** Duty cycle = 5.375 ms / 5.85 ms x 100% = 91.9%, duty factor = 10 \* log (1/Duty cycle) = 0.37 dB



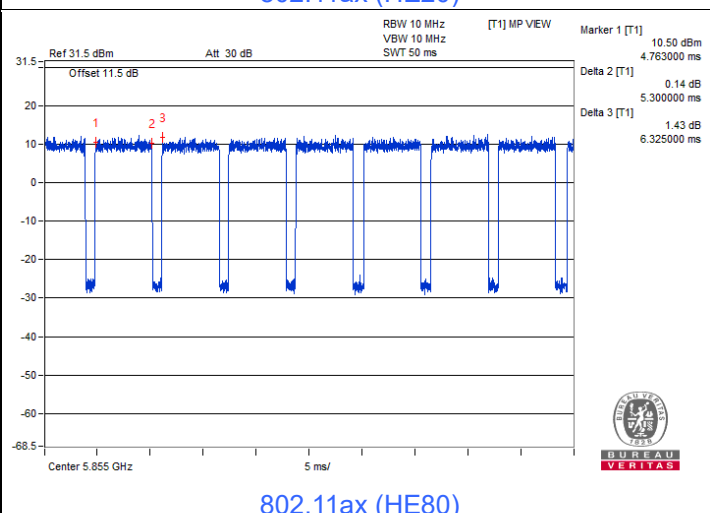
802.11a



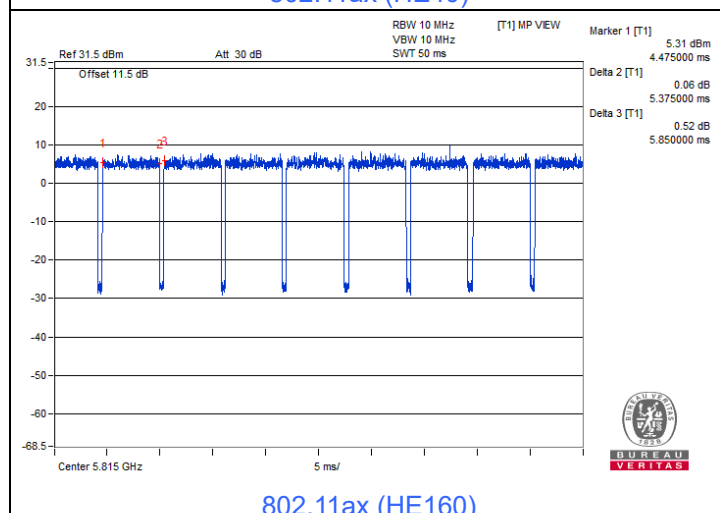
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)

## FAP-431G\_Scanning Radio (Test Mode E)

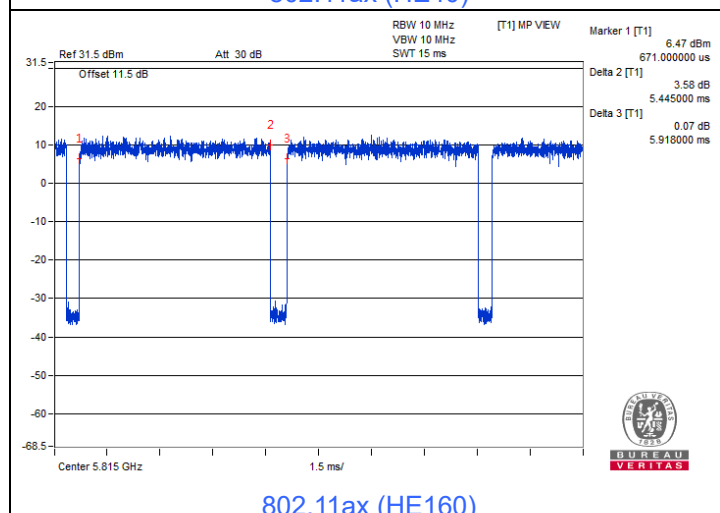
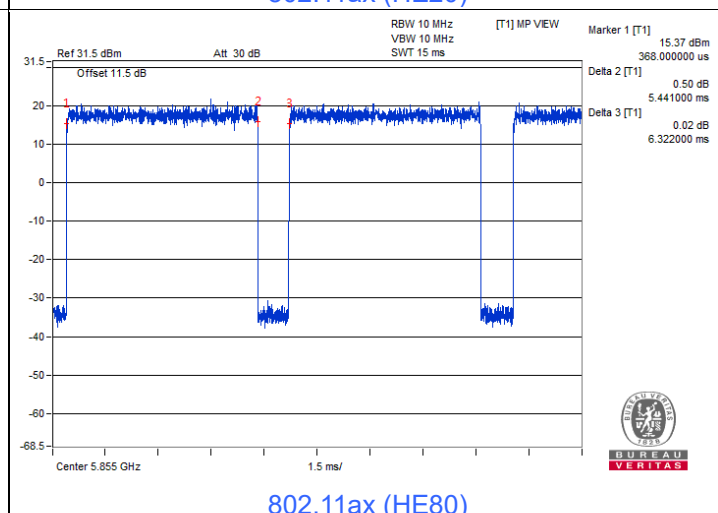
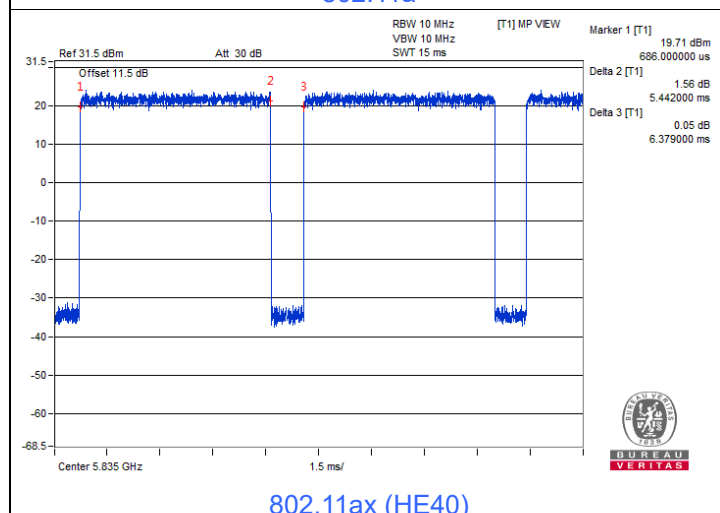
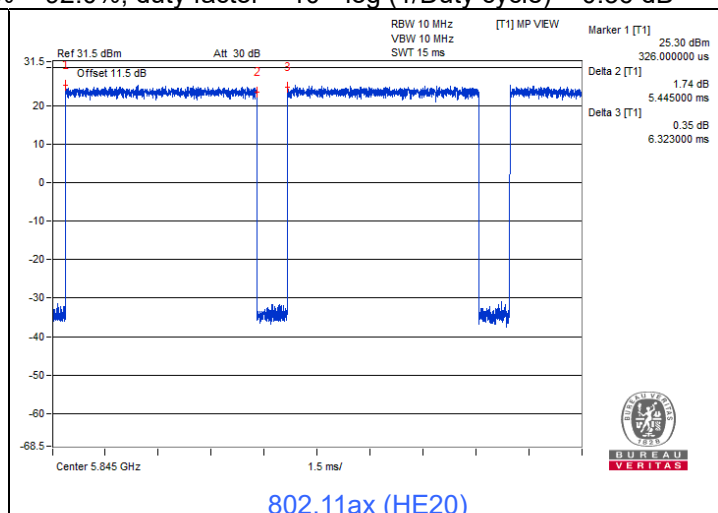
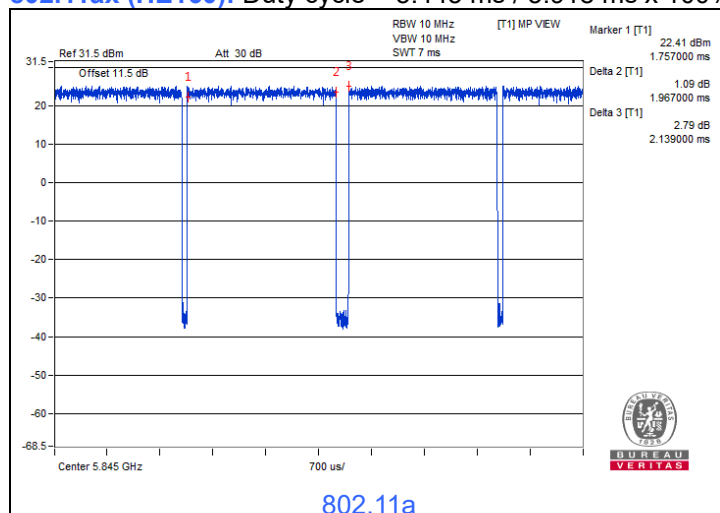
**802.11a:** Duty cycle =  $1.967 \text{ ms} / 2.139 \text{ ms} \times 100\% = 92.0\%$ , duty factor =  $10 * \log (1/\text{Duty cycle}) = 0.36 \text{ dB}$

**802.11ax (HE20):** Duty cycle =  $5.445 \text{ ms} / 6.323 \text{ ms} \times 100\% = 86.1\%$ , duty factor =  $10 * \log (1/\text{Duty cycle}) = 0.65 \text{ dB}$

**802.11ax (HE40):** Duty cycle =  $5.442 \text{ ms} / 6.379 \text{ ms} \times 100\% = 85.3\%$ , duty factor =  $10 * \log (1/\text{Duty cycle}) = 0.69 \text{ dB}$

**802.11ax (HE80):** Duty cycle =  $5.441 \text{ ms} / 6.322 \text{ ms} \times 100\% = 86.1\%$ , duty factor =  $10 * \log (1/\text{Duty cycle}) = 0.65 \text{ dB}$

**802.11ax (HE160):** Duty cycle =  $5.445 \text{ ms} / 5.918 \text{ ms} \times 100\% = 92.0\%$ , duty factor =  $10 * \log (1/\text{Duty cycle}) = 0.36 \text{ dB}$



## FAP-433G\_Radio 3 (Test Mode G)

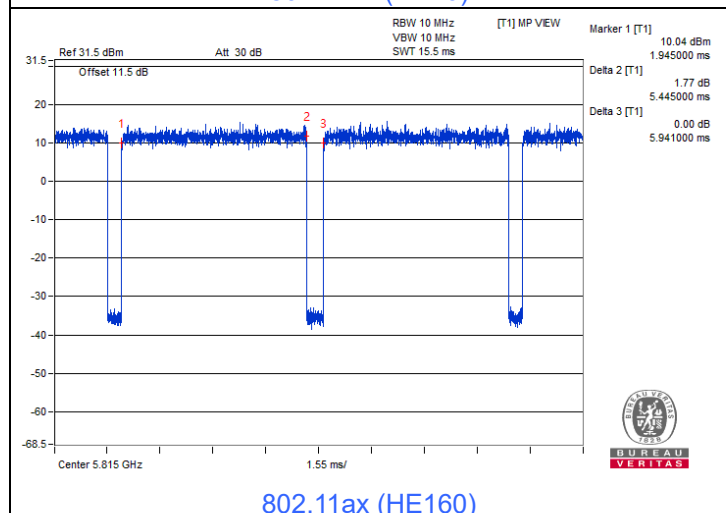
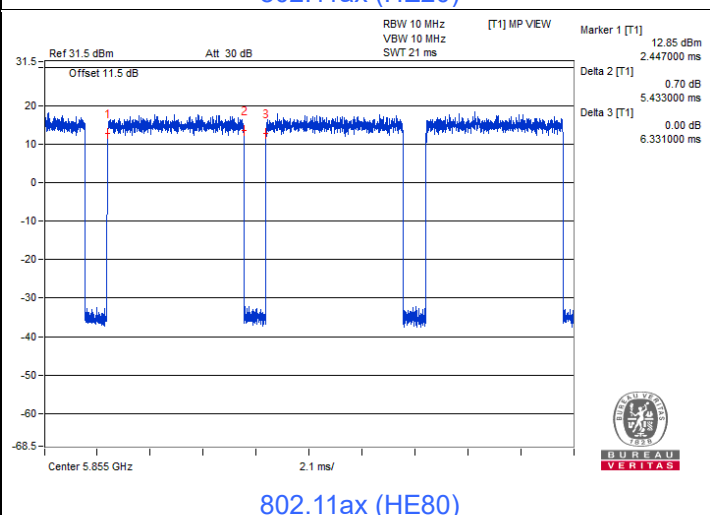
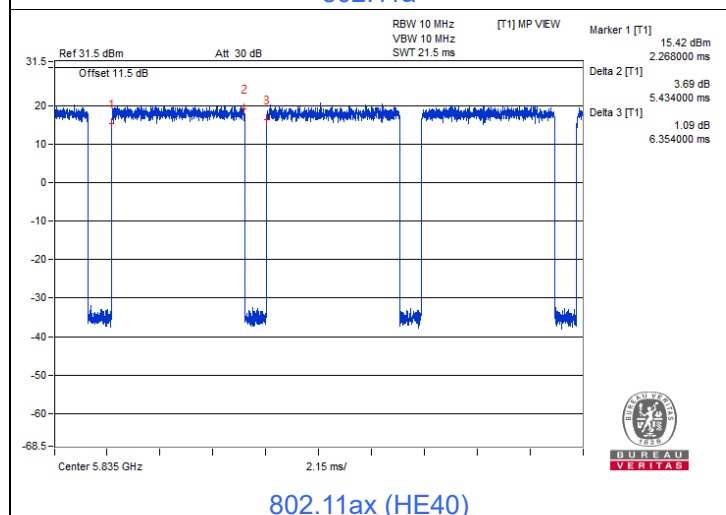
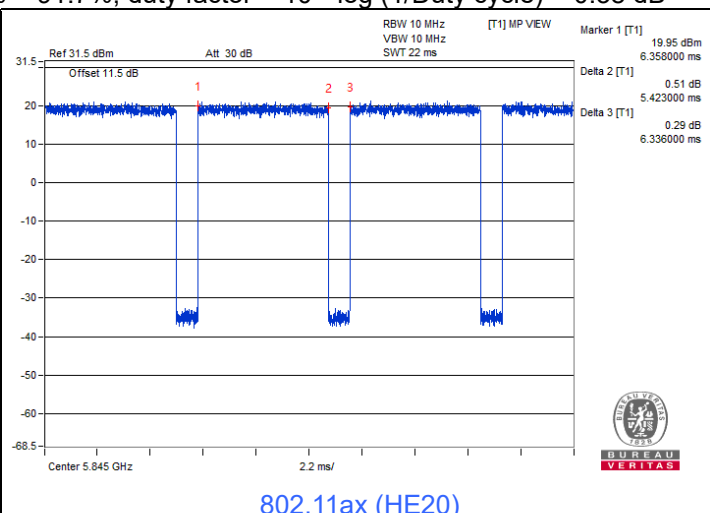
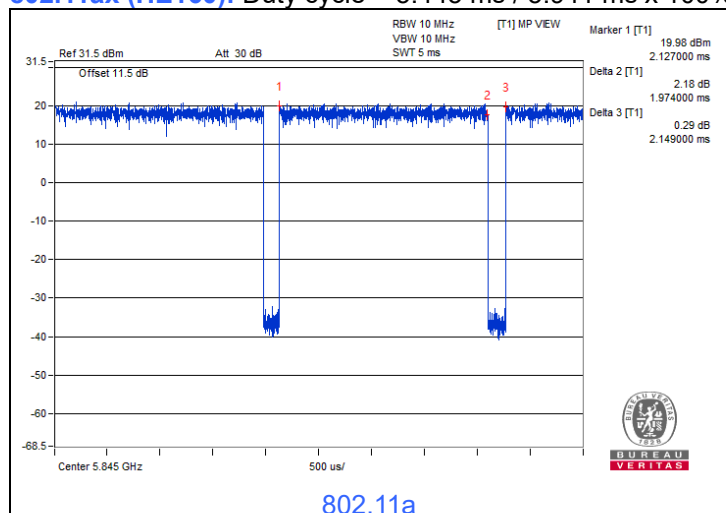
**802.11a:** Duty cycle = 1.974 ms / 2.149 ms x 100% = 91.9%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.37 \text{ dB}$

**802.11ax (HE20):** Duty cycle = 5.423 ms / 6.336 ms x 100% = 85.6%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.68 \text{ dB}$

**802.11ax (HE40):** Duty cycle = 5.434 ms / 6.354 ms x 100% = 85.5%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.68 \text{ dB}$

**802.11ax (HE80):** Duty cycle = 5.433 ms / 6.331 ms x 100% = 85.8%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.66 \text{ dB}$

**802.11ax (HE160):** Duty cycle = 5.445 ms / 5.941 ms x 100% = 91.7%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.38 \text{ dB}$



## FAP-433G\_Scanning Radio (Test Mode I)

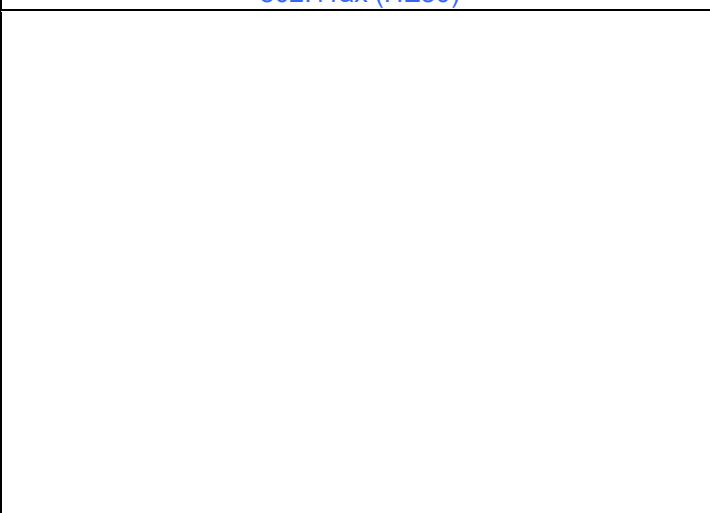
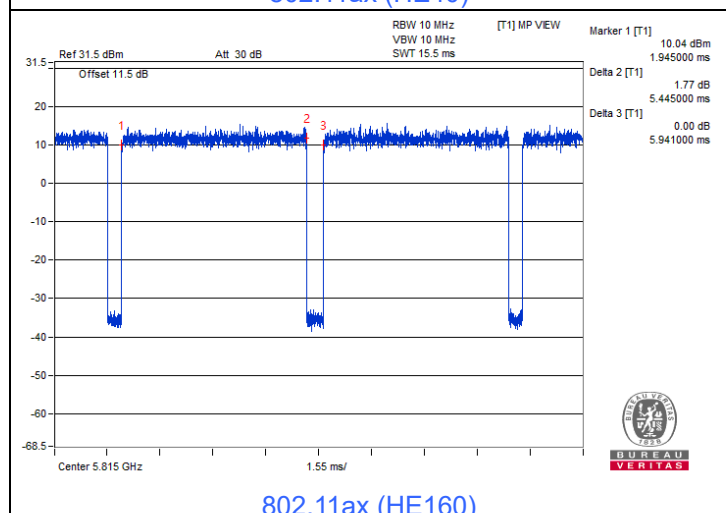
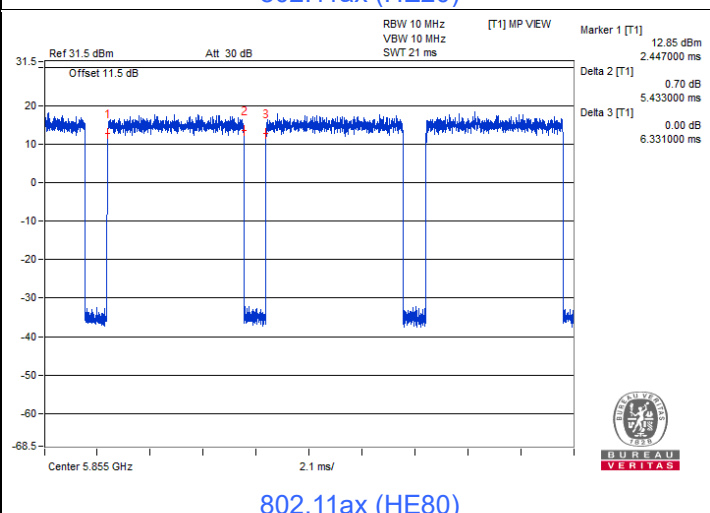
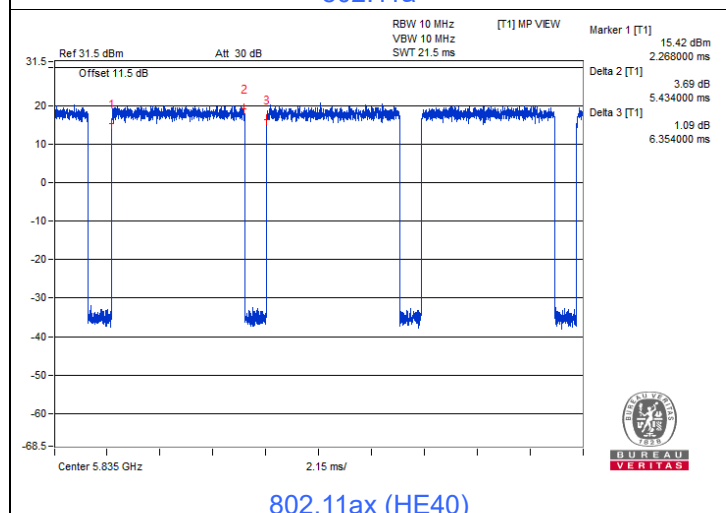
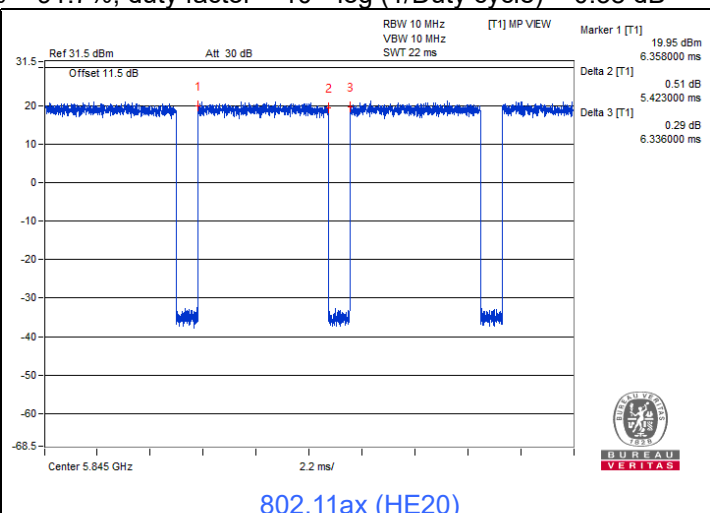
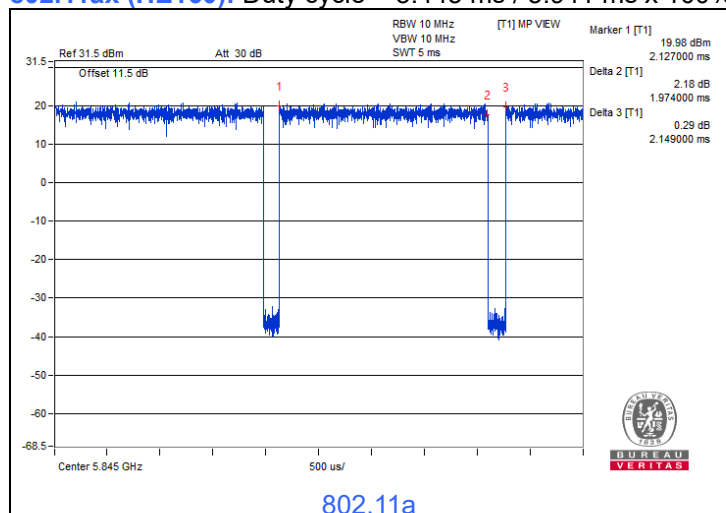
**802.11a:** Duty cycle = 1.974 ms / 2.149 ms x 100% = 91.9%, duty factor = 10 \* log (1/Duty cycle) = 0.37 dB

**802.11ax (HE20):** Duty cycle = 5.423 ms / 6.336 ms x 100% = 85.6%, duty factor = 10 \* log (1/Duty cycle) = 0.68 dB

**802.11ax (HE40):** Duty cycle = 5.434 ms / 6.354 ms x 100% = 85.5%, duty factor = 10 \* log (1/Duty cycle) = 0.68 dB

**802.11ax (HE80):** Duty cycle = 5.433 ms / 6.331 ms x 100% = 85.8%, duty factor = 10 \* log (1/Duty cycle) = 0.66 dB

**802.11ax (HE160):** Duty cycle = 5.445 ms / 5.941 ms x 100% = 91.7%, duty factor = 10 \* log (1/Duty cycle) = 0.38 dB

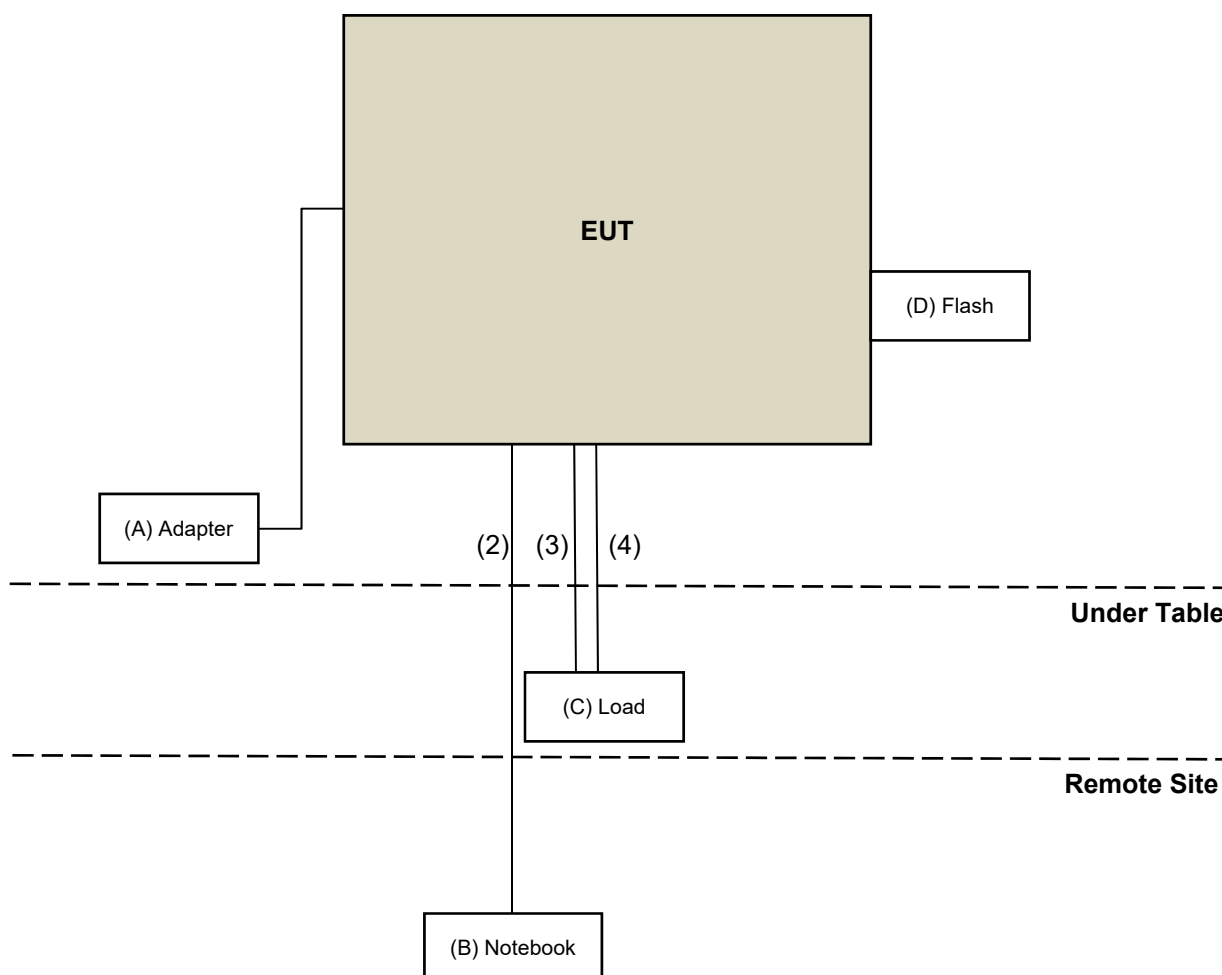


### 3.6 Test Program Used and Operation Descriptions

Controlling software (QSPR 5.0-00199) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

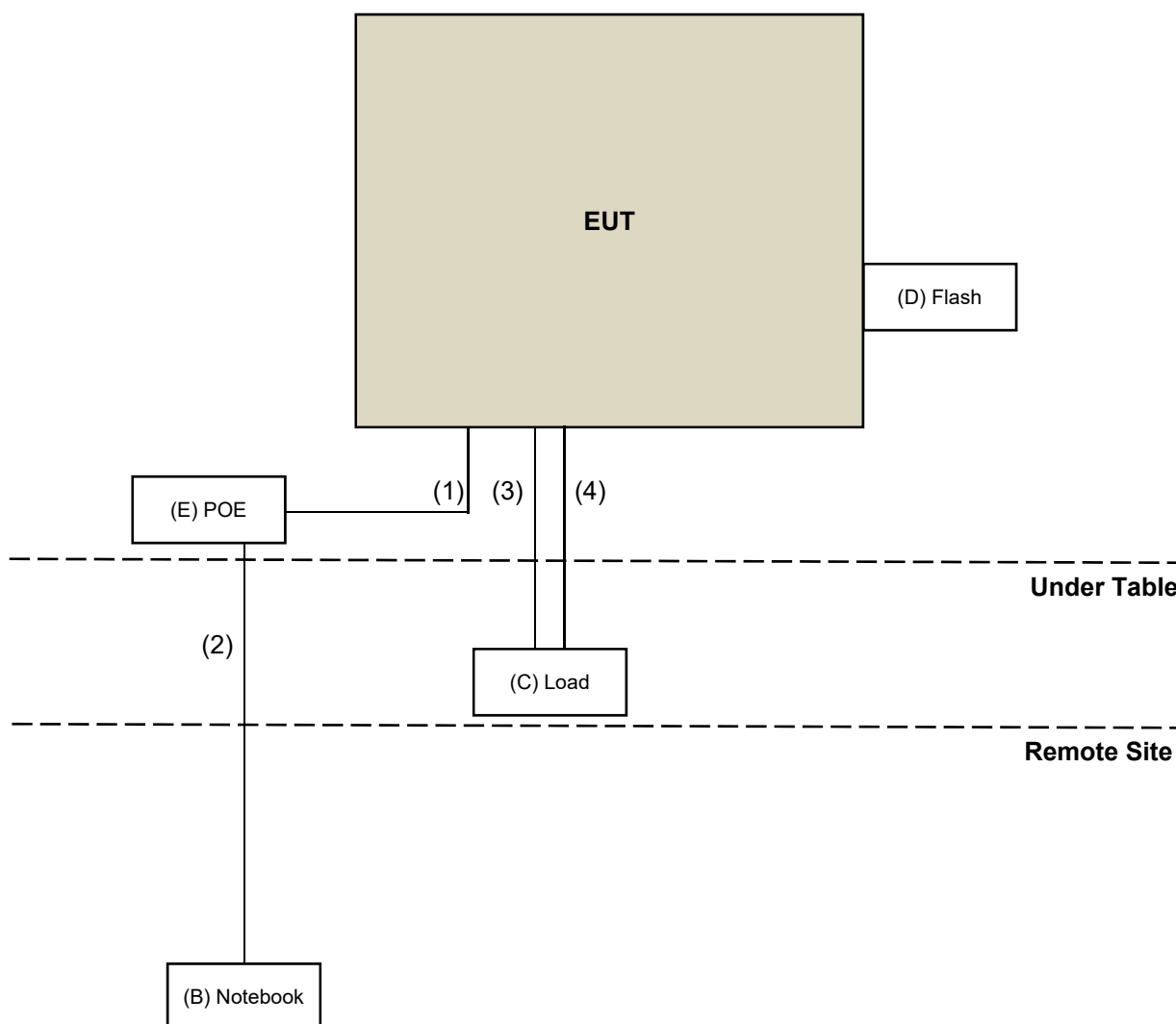
### 3.7 Connection Diagram of EUT and Peripheral Devices

Test Mode A, C, E, G, I





Test Mode B, D, F, H, J



### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product   | Brand                    | Model No.           | Serial No. | FCC ID              | Remarks            |
|----|-----------|--------------------------|---------------------|------------|---------------------|--------------------|
| A  | Adapter   | Asian Power Devices Inc. | WA-48A12R           | NA         | NA                  | Provided by client |
| B  | Notebook  | Lenovo                   | 20J4 MD<br>A003TW   | PF-11H9AK  | FCC DoC<br>Approved | -                  |
| C  | Load      | NA                       | NA                  | NA         | NA                  | -                  |
| D  | USB Flash | SanDisk                  | NA                  | NA         | NA                  | -                  |
| E  | PoE       | Microsemi                | PD-9501-<br>10GC/AC | NA         | NA                  | Provided by client |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding<br>(Yes/No) | Cores (Qty.) | Remarks     |
|----|--------------------|------|------------|-----------------------|--------------|-------------|
| 1  | LAN cable          | 1    | 1.5        | N                     | 0            | RJ45, Cat5e |
| 2  | LAN cable          | 1    | 10         | N                     | 0            | RJ45, Cat5e |
| 3  | LAN cable          | 1    | 1.5        | N                     | 0            | RJ45, Cat5e |
| 4  | LAN cable          | 1    | 1.5        | N                     | 0            | RJ45, Cat5e |

## 4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.1 RF Output Power

| Description<br>Manufacturer               | Model No. | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-------------------------------------------|-----------|------------|--------------------|---------------------|
| Peak Power Analyzer<br>KEYSIGHT           | 8990B     | MY51000485 | 2022/1/18          | 2023/1/17           |
| Power sensor<br>Keysight                  | U2021XA   | MY55380009 | 2022/3/23          | 2023/3/22           |
| Wideband Power Sensor(N1923A)<br>KEYSIGHT | N1923A    | MY58020002 | 2022/1/17          | 2023/1/16           |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/16 ~ 2022/9/23

### 4.2 Power Spectral Density

| Description<br>Manufacturer | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------|----------------------------------|------------|--------------------|---------------------|
| Software<br>BV              | ADT_RF Test Software<br>V6.6.5.4 | N/A        | N/A                | N/A                 |
| Spectrum Analyzer<br>R&S    | FSV40                            | 100979     | 2022/3/25          | 2023/3/24           |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/16 ~ 2022/9/23

### 4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

### 4.4 Frequency Stability

| Description<br>Manufacturer              | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|------------------------------------------|----------------------------------|------------|--------------------|---------------------|
| AC Power Source<br>ExTech                | CFW-105                          | E000603    | N/A                | N/A                 |
| Digital Multimeter<br>Fluke              | 87-III                           | 70360742   | 2022/6/23          | 2023/6/22           |
| Software<br>BV                           | ADT_RF Test Software<br>V6.6.5.4 | N/A        | N/A                | N/A                 |
| Spectrum Analyzer<br>R&S                 | FSV40                            | 100979     | 2022/3/25          | 2023/3/24           |
| Temperature & Humidity Chamber<br>TERCHY | HRM-120RF                        | 931022     | 2022/1/3           | 2023/1/2            |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/16 ~ 2022/9/23

#### 4.5 AC Power Conducted Emissions

| Description<br>Manufacturer               | Model No.               | Serial No.     | Calibrated<br>Date | Calibrated<br>Until |
|-------------------------------------------|-------------------------|----------------|--------------------|---------------------|
| DC-LISN<br>SCHWARZBECK MESS-<br>ELETRONIK | NNBM 8126G              | 8126G-069      | 2021/11/10         | 2022/11/9           |
| LISN<br>R&S                               | ESH3-Z5                 | 100311         | 2022/9/12          | 2023/9/11           |
| LISN<br>ROHDE & SCHWARZ                   | ENV216                  | 101826         | 2022/3/14          | 2023/3/13           |
| RF Coaxial Cable<br>WOKEN                 | 5D-FB                   | Cable-cond1-01 | 2022/1/15          | 2023/1/14           |
| Software<br>BVADT                         | BVADT_Cond_<br>V7.3.7.4 | N/A            | N/A                | N/A                 |
| Test Receiver<br>Rohde&Schwarz            | ESCI                    | 100613         | 2021/12/3          | 2022/12/2           |
| V-LISN<br>Schwarzbeck                     | NNBL 8226-2             | 8226-142       | 2022/8/31          | 2023/8/30           |

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2022/9/21 ~ 2022/11/1

#### 4.6 Unwanted Emissions below 1 GHz

| Description<br>Manufacturer             | Model No.                    | Serial No.    | Calibrated<br>Date       | Calibrated<br>Until      |
|-----------------------------------------|------------------------------|---------------|--------------------------|--------------------------|
| Software<br>BV ADT                      | ADT_Radiated_<br>V7.6.15.9.5 | N/A           | N/A                      | N/A                      |
| Antenna Tower<br>KaiTuo                 | N/A                          | N/A           | N/A                      | N/A                      |
| Antenna Tower Controller<br>KaiTuo      | KT-2000                      | N/A           | N/A                      | N/A                      |
| Turn Table<br>Max-Full                  | MFT-151SS-0.5T               | N/A           | N/A                      | N/A                      |
| Turn Table Controller<br>Max-Full       | MF-7802BS                    | MF780208675   | N/A                      | N/A                      |
| Test Receiver<br>R&S                    | ESR3                         | 102579        | 2022/7/1                 | 2023/6/30                |
| MXA Signal Analyzer<br>KEYSIGHT         | N9020B                       | MY60110462    | 2021/12/21               | 2022/12/20               |
| Loop Antenna<br>TESEQ                   | HLA 6121                     | 45745         | 2022/7/27                | 2023/7/26                |
| Loop Antenna<br>EMCI                    | EM-6879                      | 269           | 2021/9/16<br>2022/9/19   | 2022/9/15<br>2023/9/18   |
| Pre-amplifier<br>EMCI                   | EMC001340                    | 980201        | 2021/9/15<br>2022/9/23   | 2022/9/14<br>2023/9/22   |
| RF Coaxial Cable<br>EMCI                | 5D-NM-BM                     | 140903+140902 | 2022/1/15                | 2023/1/14                |
| Pre_Amplifier<br>EMCI                   | EMC330N                      | 980783        | 2022/1/17                | 2023/1/16                |
| Bi-log Broadband Antenna<br>Schwarzbeck | VULB9168                     | 9168-995      | 2021/10/28<br>2022/10/20 | 2022/10/27<br>2023/10/19 |
| RF Coaxial Cable<br>EMCI                | EMCCFD400-NM-NM-9000         | 201252        | 2022/1/17                | 2023/1/16                |
| RF Coaxial Cable<br>EMCI                | EMCCFD400-NM-NM-3000         | 201250        | 2022/1/17                | 2023/1/16                |
| RF Coaxial Cable<br>EMCI                | EMCCFD400-NM-NM-500          | 201245        | 2022/1/17                | 2023/1/16                |

Notes:

1. The test was performed in WM - 966 chamber 7.
2. Tested Date: 2022/9/14 ~ 2022/11/2

| Description<br>Manufacturer             | Model No.                    | Serial No.    | Calibrated Date          | Calibrated Until         |
|-----------------------------------------|------------------------------|---------------|--------------------------|--------------------------|
| Software<br>BV ADT                      | ADT_Radiated_<br>V7.6.15.9.5 | N/A           | N/A                      | N/A                      |
| Antenna Tower<br>Max-Full               | MFT-151SS-0.5T               | N/A           | N/A                      | N/A                      |
| Turn Table<br>Max-Full                  | MF-7802BS                    | N/A           | N/A                      | N/A                      |
| Turn Table Controller<br>Max-Full       | MF-7802BS                    | MF780208674   | N/A                      | N/A                      |
| Test Receiver<br>R&S                    | ESR3+                        | 102782        | 2021/12/10               | 2022/12/9                |
| Spectrum Analyzer<br>R&S                | FSW43                        | 101866        | 2022/1/14                | 2023/1/13                |
| Loop Antenna<br>TESEQ                   | HLA 6121                     | 45745         | 2022/7/27                | 2023/7/26                |
| Loop Antenna<br>EMCI                    | EM-6879                      | 269           | 2021/9/16<br>2022/9/19   | 2022/9/15<br>2023/9/18   |
| Pre-amplifier<br>EMCI                   | EMC001340                    | 980201        | 2021/9/15<br>2022/9/23   | 2022/9/14<br>2023/9/22   |
| RF Coaxial Cable<br>EMCI                | 5D-NM-BM                     | 140903+140902 | 2022/1/15                | 2023/1/14                |
| Pre_Amplifier<br>EMCI                   | EMC330N                      | 980782        | 2022/1/17                | 2023/1/16                |
| Bi-log Broadband Antenna<br>Schwarzbeck | VULB9168                     | 9168-1213     | 2021/10/27<br>2022/10/20 | 2022/10/26<br>2023/10/19 |
| RF Coaxial Cable<br>EMCI                | EMCCFD400-NM-NM-500          | 201233        | 2022/1/17                | 2023/1/16                |
| RF Coaxial Cable<br>EMCI                | EMCCFD400-NM-NM-3000         | 201235        | 2022/1/17                | 2023/1/16                |
| RF Coaxial Cable<br>EMCI                | EMCCFD400-NM-NM-9000         | 201236        | 2022/1/17                | 2023/1/16                |
| RF Coaxial Cable<br>EMCI                | EMC101G-KM-KM-2000           | 201254        | 2022/1/17                | 2023/1/16                |

**Notes:**

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2022/9/14 ~ 2022/11/2

#### 4.7 Unwanted Emissions above 1 GHz

| Description<br>Manufacturer        | Model No.                    | Serial No.  | Calibrated<br>Date | Calibrated<br>Until |
|------------------------------------|------------------------------|-------------|--------------------|---------------------|
| Software<br>BV ADT                 | ADT_Radiated_<br>V7.6.15.9.5 | N/A         | N/A                | N/A                 |
| Antenna Tower<br>KaiTuo            | N/A                          | N/A         | N/A                | N/A                 |
| Antenna Tower Controller<br>KaiTuo | KT-2000                      | N/A         | N/A                | N/A                 |
| Turn Table<br>Max-Full             | MFT-151SS-0.5T               | N/A         | N/A                | N/A                 |
| Turn Table Controller<br>Max-Full  | MF-7802BS                    | MF780208675 | N/A                | N/A                 |
| Test Receiver<br>R&S               | ESR3                         | 102579      | 2022/7/1           | 2023/6/30           |
| MXA Signal Analyzer<br>KEYSIGHT    | N9020B                       | MY60110462  | 2021/12/21         | 2022/12/20          |
| Horn Antenna<br>RFSPIN             | DRH18-E                      | 210104A18E  | 2021/11/14         | 2022/11/13          |
| Pre_Amplifier<br>EMCI              | EMC118A45SE                  | 980810      | 2021/12/30         | 2022/12/29          |
| RF Coaxial Cable<br>EMCI           | EMC104-SM-SM-9000            | 201230      | 2022/1/17          | 2023/1/16           |
| RF Coaxial Cable<br>EMCI           | EMC104-SM-SM-3000            | 201242      | 2022/1/17          | 2023/1/16           |
| RF Coaxial Cable<br>EMCI           | EMC104-SM-SM-1000            | 210101      | 2022/1/17          | 2023/1/16           |
| Pre_Amplifier<br>EMCI              | EMC184045SE                  | 980787      | 2022/1/17          | 2023/1/16           |
| Horn Antenna<br>Schwarzbeck        | BBHA 9170                    | 9170-1048   | 2021/11/14         | 2022/11/13          |
| RF Coaxial Cable<br>EMCI           | EMC101G-KM-KM-5000           | 201259      | 2022/1/17          | 2023/1/16           |
| RF Coaxial Cable<br>EMCI           | EMC101G-KM-KM-3000           | 201256      | 2022/1/17          | 2023/1/16           |

Notes:

1. The test was performed in WM - 966 chamber 7.
2. Tested Date: 2022/9/13 ~ 2022/11/3

| Description<br>Manufacturer       | Model No.                    | Serial No.  | Calibrated Date | Calibrated Until |
|-----------------------------------|------------------------------|-------------|-----------------|------------------|
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | N/A         | N/A             | N/A              |
| Antenna Tower<br>Max-Full         | MFT-151SS-0.5T               | N/A         | N/A             | N/A              |
| Turn Table<br>Max-Full            | MF-7802BS                    | N/A         | N/A             | N/A              |
| Turn Table Controller<br>Max-Full | MF-7802BS                    | MF780208674 | N/A             | N/A              |
| Test Receiver<br>R&S              | ESR3+                        | 102782      | 2021/12/10      | 2022/12/9        |
| Spectrum Analyzer<br>R&S          | FSW43                        | 101866      | 2022/1/14       | 2023/1/13        |
| Horn Antenna<br>RFSPIN            | DRH18-E                      | 210103A18E  | 2021/11/14      | 2022/11/13       |
| Pre_Amplifier<br>EMCI             | EMC118A45SE                  | 980808      | 2021/12/30      | 2022/12/29       |
| RF Coaxial Cable<br>EMCI          | EMC104-SM-SM-1000            | 210102      | 2022/1/17       | 2023/1/16        |
| RF Coaxial Cable<br>EMCI          | EMC104-SM-SM-3000            | 201231      | 2022/1/17       | 2023/1/16        |
| RF Coaxial Cable<br>EMCI          | EMC104-SM-SM-9000            | 201243      | 2022/1/17       | 2023/1/16        |
| Pre_Amplifier<br>EMCI             | EMC184045SE                  | 980788      | 2022/1/17       | 2023/1/16        |
| Horn Antenna<br>Schwarzbeck       | BBHA 9170                    | 9170-1049   | 2021/11/14      | 2022/11/13       |
| RF Coaxial Cable<br>EMCI          | EMC101G-KM-KM-5000           | 201260      | 2022/1/17       | 2023/1/16        |
| RF Coaxial Cable<br>EMCI          | EMC101G-KM-KM-3000           | 201257      | 2022/1/17       | 2023/1/16        |
| RF Coaxial Cable<br>EMCI          | EMC101G-KM-KM-2000           | 201254      | 2022/1/17       | 2023/1/16        |

**Notes:**

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2022/9/13 ~ 2022/11/3

## 5 Limits of Test Items

### 5.1 RF Output Power

| Device Category                                                                   | Limit<br>(Max Average Power) |
|-----------------------------------------------------------------------------------|------------------------------|
| Indoor access point                                                               | EIRP 36 dBm                  |
| Subordinate device                                                                | EIRP 36 dBm                  |
| Client device                                                                     | EIRP 30 dBm                  |
| Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values. |                              |

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

For power measurements on all other devices: Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

### 5.2 Power Spectral Density

| Device Category                                                                   | Limit           |
|-----------------------------------------------------------------------------------|-----------------|
| Indoor access point                                                               | EIRP 20 dBm/MHz |
| Subordinate device                                                                | EIRP 20 dBm/MHz |
| Client device                                                                     | EIRP 14 dBm/MHz |
| Note: For all U-NII-4 and U-NII-3 & -4 span channels shall met above EIRP values. |                 |

### 5.3 6 dB Bandwidth

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 5.4 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

### 5.5 AC Power Conducted Emissions

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

## 5.6 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                       | 300                           |
| 0.490 ~ 1.705     | 24000/F(kHz)                      | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

## 5.7 Unwanted Emissions above 1 GHz

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz 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 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or 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.

**Note:**

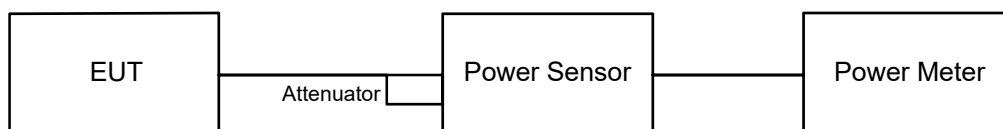
The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts).}$$

## 6 Test Arrangements

### 6.1 RF Output Power

#### 6.1.1 Test Setup

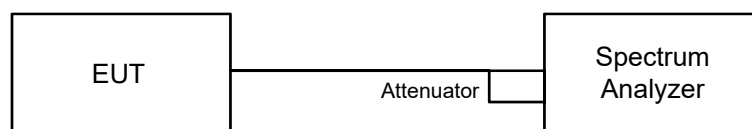


#### 6.1.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

### 6.2 Power Spectral Density

#### 6.2.1 Test Setup



#### 6.2.2 Test Procedure

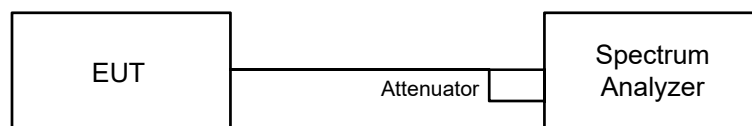
##### For specified measurement bandwidth 1 MHz:

##### Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add  $10 \log (1/\text{duty cycle})$ .

### 6.3 6 dB Bandwidth

#### 6.3.1 Test Setup

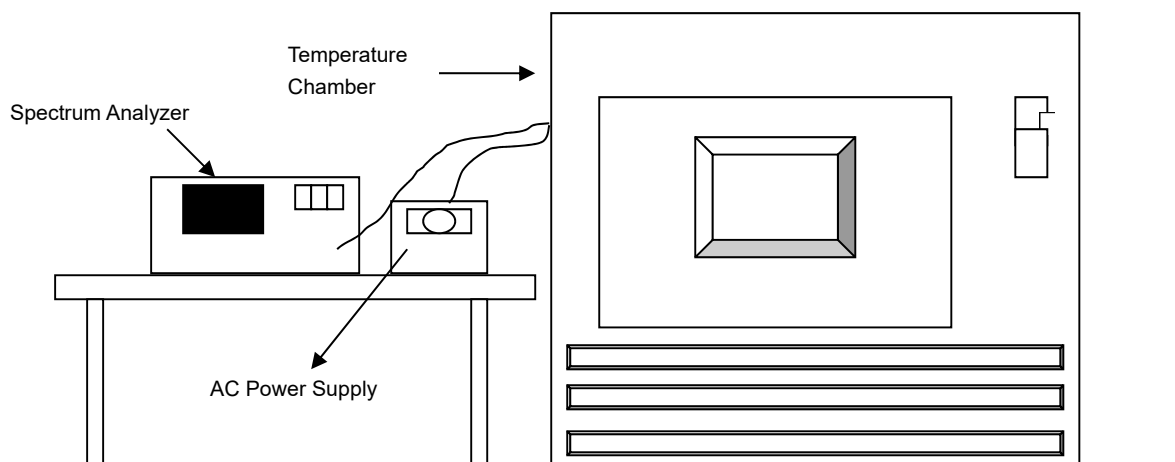


#### 6.3.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times \text{RBW}$ , Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 6.4 Frequency Stability

### 6.4.1 Test Setup

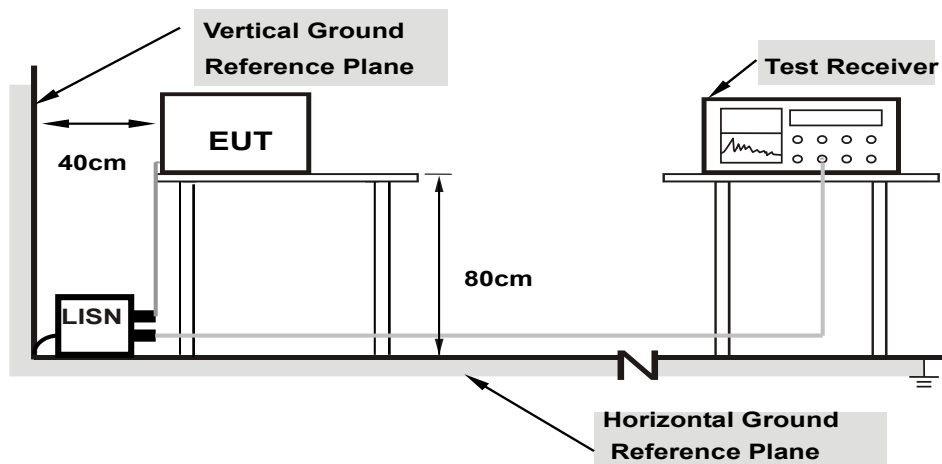


### 6.4.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

## 6.5 AC Power Conducted Emissions

### 6.5.1 Test Setup



**Note: 1.Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.5.2 Test Procedure

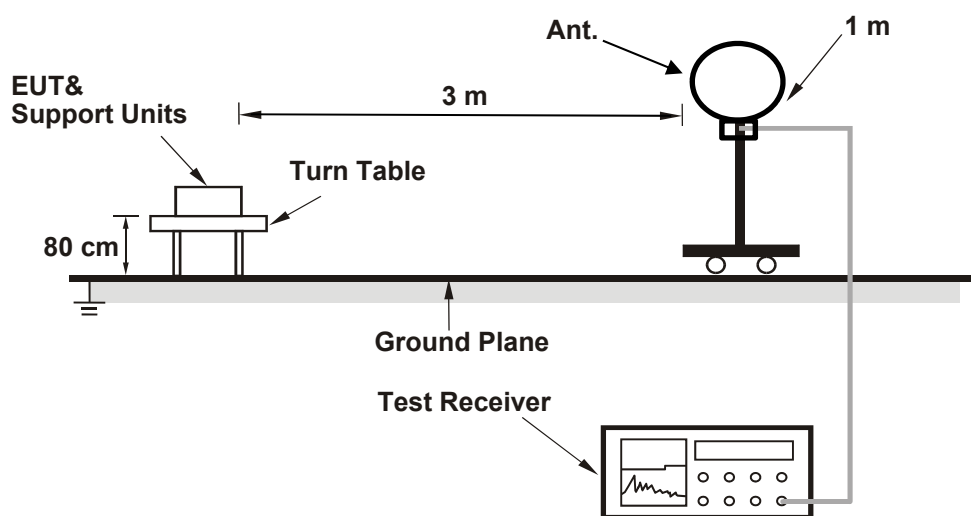
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

**Note:** The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

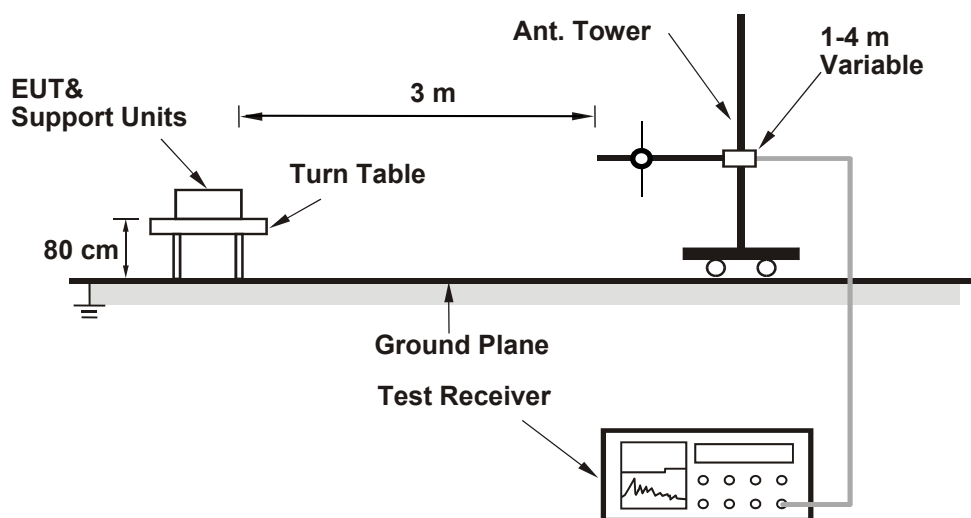
## 6.6 Unwanted Emissions below 1 GHz

### 6.6.1 Test Setup

#### For Radiated emission below 30 MHz



#### For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 6.6.2 Test Procedure

### For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

### For Radiated emission above 30 MHz

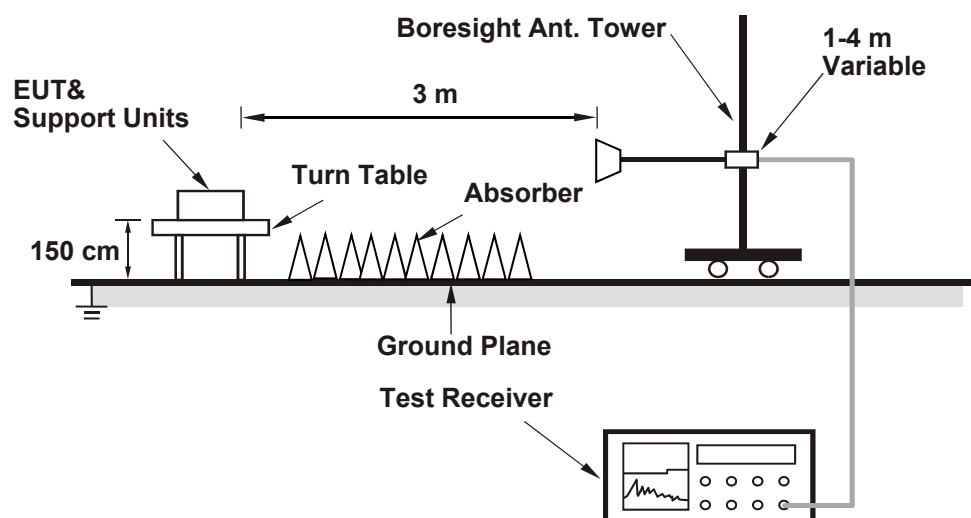
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

## 6.7 Unwanted Emissions above 1 GHz

### 6.7.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.7.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

## 7 Test Results of Test Item

### 7.1 RF Output Power

|              |              |                           |              |            |                                           |
|--------------|--------------|---------------------------|--------------|------------|-------------------------------------------|
| Input Power: | 120Vac, 60Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Wayne Lin,<br>Jisyong Wang,<br>Ivan Tseng |
|--------------|--------------|---------------------------|--------------|------------|-------------------------------------------|

#### FAP-431G\_Radio 2 (Test Mode A)

##### 802.11a CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 20.36               | 20.75   | 20.29   | 20.15   | 437.912          | 26.41             | 4.30               | 1177.606  | 30.71      | 36               | Pass        |
| 173   | 5865              | 20.67               | 20.32   | 20.69   | 20.45   | 452.465          | 26.56             | 4.30               | 1218.990  | 30.86      | 36               | Pass        |
| 177   | 5885              | 20.67               | 19.84   | 20.07   | 20.01   | 414.919          | 26.18             | 4.30               | 1116.863  | 30.48      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

##### 802.11n (HT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 21.12               | 20.36   | 20.73   | 20.64   | 472.244          | 26.74             | 4.30               | 1270.574  | 31.04      | 36               | Pass        |
| 173   | 5865              | 21.08               | 20.93   | 20.67   | 20.72   | 486.826          | 26.87             | 4.30               | 1309.182  | 31.17      | 36               | Pass        |
| 177   | 5885              | 20.72               | 20.25   | 19.94   | 20.07   | 424.21           | 26.28             | 4.30               | 1142.878  | 30.58      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

##### 802.11n (HT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 23.01               | 23.35   | 23.59   | 23.42   | 864.604          | 29.37             | 4.30               | 2328.091  | 33.67      | 36               | Pass        |
| 175   | 5875              | 23.17               | 23.30   | 23.42   | 23.03   | 841.983          | 29.25             | 4.30               | 2264.644  | 33.55      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

### 802.11ac (VHT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 21.16               | 20.42   | 20.78   | 20.69   | 477.665          | 26.79             | 4.30               | 1285.287  | 31.09      | 36               | Pass        |
| 173   | 5865              | 21.13               | 20.97   | 20.71   | 20.76   | 491.629          | 26.92             | 4.30               | 1324.342  | 31.22      | 36               | Pass        |
| 177   | 5885              | 20.79               | 20.31   | 20.01   | 20.12   | 430.381          | 26.34             | 4.30               | 1158.777  | 30.64      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

### 802.11ac (VHT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 23.09               | 23.40   | 23.66   | 23.49   | 878.111          | 29.44             | 4.30               | 2365.920  | 33.74      | 36               | Pass        |
| 175   | 5875              | 23.20               | 23.38   | 23.49   | 23.11   | 854.702          | 29.32             | 4.30               | 2301.442  | 33.62      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

### 802.11ac (VHT80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 23.14               | 22.63   | 23.04   | 23.40   | 809.443          | 29.08             | 4.30               | 2177.71   | 33.38      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

### 802.11ax (HE20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 21.21               | 20.49   | 20.84   | 20.77   | 484.811          | 26.86             | 4.30               | 1306.171  | 31.16      | 36               | Pass        |
| 173   | 5865              | 21.19               | 21.03   | 20.76   | 20.83   | 498.472          | 26.98             | 4.30               | 1342.765  | 31.28      | 36               | Pass        |
| 177   | 5885              | 20.85               | 20.37   | 20.09   | 20.18   | 436.837          | 26.40             | 4.30               | 1174.898  | 30.70      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

### 802.11ax (HE40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 23.16               | 23.45   | 23.71   | 23.55   | 889.751          | 29.49             | 4.30               | 2393.316  | 33.79      | 36               | Pass        |
| 175   | 5875              | 23.24               | 23.45   | 23.56   | 23.16   | 866.173          | 29.38             | 4.30               | 2333.458  | 33.68      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

### 802.11ax (HE80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 23.21               | 22.67   | 23.11   | 23.45   | 820.292          | 29.14             | 4.30               | 2208.005  | 33.44      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 4.3 dBi

### 802.11n (HT20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 18.83               | 18.17   | 18.46   | 18.43   | 281.806          | 24.50             | 6.31                   | 1205.036  | 30.81      | 36               | Pass        |
| 173   | 5865              | 18.81               | 18.66   | 18.42   | 18.49   | 289.618          | 24.62             | 6.03                   | 1161.449  | 30.65      | 36               | Pass        |
| 177   | 5885              | 18.48               | 18.06   | 17.75   | 17.76   | 253.713          | 24.04             | 6.03                   | 1016.249  | 30.07      | 36               | Pass        |

**Notes:**

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

### 802.11n (HT40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 20.82               | 21.09   | 21.30   | 21.16   | 514.823          | 27.12             | 6.31                   | 2202.926  | 33.43      | 36               | Pass        |
| 175   | 5875              | 20.91               | 21.04   | 21.18   | 20.84   | 502.927          | 27.02             | 6.03                   | 2018.366  | 33.05      | 36               | Pass        |

**Notes:**

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

### 802.11ac (VHT20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 18.95               | 18.29   | 18.60   | 18.56   | 290.199          | 24.63             | 6.31                   | 1241.652  | 30.94      | 36               | Pass        |
| 173   | 5865              | 18.94               | 18.80   | 18.54   | 18.60   | 298.094          | 24.74             | 6.03                   | 1193.988  | 30.77      | 36               | Pass        |
| 177   | 5885              | 18.60               | 18.17   | 17.87   | 17.88   | 260.669          | 24.16             | 6.03                   | 1044.720  | 30.19      | 36               | Pass        |

**Notes:**

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

### 802.11ac (VHT40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 20.93               | 21.20   | 21.43   | 21.28   | 528.977          | 27.23             | 6.31                   | 2259.436  | 33.54      | 36               | Pass        |
| 175   | 5875              | 21.03               | 21.17   | 21.31   | 20.95   | 517.342          | 27.14             | 6.03                   | 2074.914  | 33.17      | 36               | Pass        |

**Notes:**

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

### 802.11ac (VHT80) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 171   | 5855              | 20.98               | 20.42   | 20.86   | 21.17   | 488.285          | 26.89             | 6.31                   | 2089.296  | 33.20      | 36               | Pass        |

**Notes:**

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

### 802.11ax (HE20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 19.07               | 18.41   | 18.73   | 18.70   | 298.842          | 24.75             | 6.31                   | 1276.439  | 31.06      | 36               | Pass        |
| 173   | 5865              | 19.06               | 18.93   | 18.67   | 18.72   | 306.795          | 24.87             | 6.03                   | 1230.269  | 30.90      | 36               | Pass        |
| 177   | 5885              | 18.73               | 18.29   | 18.01   | 18.04   | 269.018          | 24.30             | 6.03                   | 1078.947  | 30.33      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

### 802.11ax (HE40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 21.06               | 21.32   | 21.56   | 21.41   | 544.738          | 27.36             | 6.31                   | 2328.091  | 33.67      | 36               | Pass        |
| 175   | 5875              | 21.16               | 21.30   | 21.44   | 21.07   | 532.767          | 27.27             | 6.03                   | 2137.962  | 33.30      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

### 802.11ax (HE80) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 171   | 5855              | 21.12               | 20.54   | 20.99   | 21.31   | 503.47           | 27.02             | 6.31                   | 2152.782  | 33.33      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
3. For U-NII-4, The directional gain is 6.03 dBi

## FAP-431G\_Radio 3 (Test Mode C)

### 802.11a CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 20.24               | 19.46   | 19.75   | 19.77   | 383.238          | 25.83             | 5.30               | 1297.179  | 31.13      | 36               | Pass        |
| 173   | 5865              | 20.26               | 19.49   | 19.76   | 19.56   | 380.078          | 25.80             | 5.30               | 1288.250  | 31.10      | 36               | Pass        |
| 177   | 5885              | 18.19               | 17.38   | 17.65   | 17.47   | 234.676          | 23.70             | 5.30               | 794.328   | 29.00      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11n (HT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 19.80               | 19.35   | 19.32   | 19.60   | 358.306          | 25.54             | 5.30               | 1213.389  | 30.84      | 36               | Pass        |
| 173   | 5865              | 19.56               | 19.51   | 19.01   | 19.72   | 353.068          | 25.48             | 5.30               | 1196.741  | 30.78      | 36               | Pass        |
| 177   | 5885              | 18.10               | 18.02   | 17.52   | 18.31   | 252.21           | 24.02             | 5.30               | 855.067   | 29.32      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11n (HT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 21.75               | 21.13   | 21.02   | 21.30   | 540.711          | 27.33             | 5.30               | 1832.314  | 32.63      | 36               | Pass        |
| 175   | 5875              | 18.76               | 18.42   | 18.19   | 18.70   | 284.713          | 24.54             | 5.30               | 963.829   | 29.84      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 19.85               | 19.41   | 19.36   | 19.64   | 362.245          | 25.59             | 5.30               | 1227.439  | 30.89      | 36               | Pass        |
| 173   | 5865              | 19.63               | 19.58   | 19.10   | 19.80   | 359.398          | 25.56             | 5.30               | 1218.99   | 30.86      | 36               | Pass        |
| 177   | 5885              | 18.16               | 18.10   | 17.61   | 18.36   | 256.255          | 24.09             | 5.30               | 868.96    | 29.39      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 21.81               | 21.16   | 21.30   | 21.38   | 554.623          | 27.44             | 5.30               | 1879.317  | 32.74      | 36               | Pass        |
| 175   | 5875              | 18.81               | 18.52   | 18.23   | 18.75   | 288.671          | 24.60             | 5.30               | 977.237   | 29.90      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 18.51               | 17.90   | 18.01   | 18.30   | 263.467          | 24.21             | 5.30               | 893.305   | 29.51      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 16.92               | 16.74   | 16.79   | 16.90   | 193.141          | 22.86             | 5.30               | 654.636   | 28.16      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 19.93               | 19.47   | 19.41   | 19.72   | 367.966          | 25.66             | 5.30               | 1247.384  | 30.96      | 36               | Pass        |
| 173   | 5865              | 19.73               | 19.63   | 19.16   | 19.89   | 365.718          | 25.63             | 5.30               | 1238.797  | 30.93      | 36               | Pass        |
| 177   | 5885              | 18.21               | 18.16   | 17.65   | 18.43   | 259.558          | 24.14             | 5.30               | 879.023   | 29.44      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 21.85               | 21.25   | 21.38   | 21.44   | 563.181          | 27.51             | 5.30               | 1909.853  | 32.81      | 36               | Pass        |
| 175   | 5875              | 18.90               | 18.56   | 18.31   | 18.83   | 293.552          | 24.68             | 5.30               | 995.405   | 29.98      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 18.59               | 17.96   | 18.10   | 18.35   | 267.751          | 24.28             | 5.30               | 907.821   | 29.58      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 16.99               | 16.81   | 16.91   | 16.93   | 196.385          | 22.93             | 5.30               | 665.273   | 28.23      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11n (HT20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 17.78               | 17.33   | 17.30   | 17.58   | 225.037          | 23.52             | 6.91                   | 1104.079  | 30.43      | 36               | Pass        |
| 173   | 5865              | 18.03               | 18.00   | 17.48   | 18.20   | 248.674          | 23.96             | 6.61                   | 1140.25   | 30.57      | 36               | Pass        |
| 177   | 5885              | 16.58               | 16.51   | 16.00   | 16.78   | 177.724          | 22.50             | 6.61                   | 814.704   | 29.11      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11n (HT40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 19.73               | 19.11   | 18.98   | 19.26   | 338.844          | 25.30             | 6.91                   | 1663.413  | 32.21      | 36               | Pass        |
| 175   | 5875              | 17.23               | 16.90   | 16.67   | 17.16   | 200.274          | 23.02             | 6.61                   | 918.333   | 29.63      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ac (VHT20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 17.88               | 17.38   | 17.27   | 17.62   | 227.221          | 23.56             | 6.91                   | 1114.295  | 30.47      | 36               | Pass        |
| 173   | 5865              | 18.16               | 18.01   | 17.59   | 18.29   | 253.569          | 24.04             | 6.61                   | 1161.449  | 30.65      | 36               | Pass        |
| 177   | 5885              | 16.62               | 16.55   | 16.02   | 16.83   | 179.295          | 22.54             | 6.61                   | 822.243   | 29.15      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ac (VHT40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 19.78               | 19.14   | 19.27   | 19.35   | 347.723          | 25.41             | 6.91                   | 1706.082  | 32.32      | 36               | Pass        |
| 175   | 5875              | 17.29               | 17.00   | 16.71   | 17.23   | 203.424          | 23.08             | 6.61                   | 931.108   | 29.69      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ac (VHT80) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 171   | 5855              | 16.50               | 15.87   | 15.97   | 16.27   | 165.206          | 22.18             | 6.91                   | 810.961   | 29.09      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ac (VHT160) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 163   | 5815              | 14.88               | 14.71   | 14.79   | 14.86   | 121.091          | 20.83             | 6.91                   | 594.292   | 27.74      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ax (HE20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 17.91               | 17.44   | 17.33   | 17.70   | 230.224          | 23.62             | 6.91                   | 1129.796  | 30.53      | 36               | Pass        |
| 173   | 5865              | 18.21               | 18.10   | 17.63   | 18.37   | 257.437          | 24.11             | 6.61                   | 1180.321  | 30.72      | 36               | Pass        |
| 177   | 5885              | 16.68               | 16.63   | 16.13   | 16.91   | 182.695          | 22.62             | 6.61                   | 837.529   | 29.23      | 36               | Pass        |

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ax (HE40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 19.81               | 19.21   | 19.35   | 19.42   | 352.685          | 25.47             | 6.91                   | 1729.816  | 32.38      | 36               | Pass        |
| 175   | 5875              | 17.36               | 17.03   | 16.78   | 17.31   | 206.386          | 23.15             | 6.61                   | 946.237   | 29.76      | 36               | Pass        |

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ax (HE80) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 171   | 5855              | 16.57               | 15.93   | 16.08   | 16.33   | 168.073          | 22.25             | 6.91                   | 824.138   | 29.16      | 36               | Pass        |

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ax (HE160) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 163   | 5815              | 14.94               | 14.77   | 14.91   | 14.89   | 122.987          | 20.90             | 6.91                   | 603.949   | 27.81      | 36               | Pass        |

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
3. For U-NII-4, The directional gain is 6.61 dBi

## FAP-431G\_Scanning Radio (Test Mode E)

### 802.11a CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.22               | 22.35   | 338.516          | 25.30             | 5.30               | 1148.154  | 30.60      | 36               | Pass        |
| 173   | 5865              | 22.88               | 23.21   | 403.5            | 26.06             | 5.30               | 1367.729  | 31.36      | 36               | Pass        |
| 177   | 5885              | 20.14               | 19.36   | 189.574          | 22.78             | 5.30               | 642.688   | 28.08      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11n (HT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.09               | 22.31   | 332.024          | 25.21             | 5.30               | 1124.605  | 30.51      | 36               | Pass        |
| 173   | 5865              | 22.82               | 23.23   | 401.803          | 26.04             | 5.30               | 1361.445  | 31.34      | 36               | Pass        |
| 177   | 5885              | 19.86               | 19.43   | 184.528          | 22.66             | 5.30               | 625.173   | 27.96      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11n (HT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 22.91               | 23.13   | 401.023          | 26.03             | 5.30               | 1358.313  | 31.33      | 36               | Pass        |
| 175   | 5875              | 20.11               | 19.61   | 193.977          | 22.88             | 5.30               | 657.658   | 28.18      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.21               | 22.45   | 342.134          | 25.34             | 5.30               | 1158.777  | 30.64      | 36               | Pass        |
| 173   | 5865              | 22.94               | 23.36   | 413.559          | 26.17             | 5.30               | 1402.814  | 31.47      | 36               | Pass        |
| 177   | 5885              | 19.97               | 19.53   | 189.054          | 22.77             | 5.30               | 641.210   | 28.07      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 23.02               | 23.27   | 412.772          | 26.16             | 5.30               | 1399.587  | 31.46      | 36               | Pass        |
| 175   | 5875              | 20.24               | 19.71   | 199.222          | 22.99             | 5.30               | 674.528   | 28.29      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 20.05               | 19.70   | 194.483          | 22.89             | 5.30               | 659.174   | 28.19      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ac (VHT160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 15.34               | 15.29   | 68.004           | 18.33             | 5.30               | 230.675   | 23.63      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.33               | 22.59   | 352.553          | 25.47             | 5.30               | 1193.988  | 30.77      | 36               | Pass        |
| 173   | 5865              | 23.05               | 23.49   | 425.194          | 26.29             | 5.30               | 1442.115  | 31.59      | 36               | Pass        |
| 177   | 5885              | 20.09               | 19.65   | 194.351          | 22.89             | 5.30               | 659.174   | 28.19      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 23.16               | 23.40   | 425.79           | 26.29             | 5.30               | 1442.115  | 31.59      | 36               | Pass        |
| 175   | 5875              | 20.37               | 19.82   | 204.833          | 23.11             | 5.30               | 693.426   | 28.41      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 20.18               | 19.82   | 200.172          | 23.01             | 5.30               | 677.642   | 28.31      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

### 802.11ax (HE160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 15.47               | 15.40   | 69.911           | 18.45             | 5.30               | 237.137   | 23.75      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 5.3 dBi

## FAP-433G\_Radio 3 (Test Mode G)

### 802.11a CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 18.51               | 18.45   | 18.41   | 18.72   | 284.758          | 24.54             | 2.81               | 543.250   | 27.35      | 36               | Pass        |
| 173   | 5865              | 18.60               | 18.71   | 18.45   | 18.83   | 293.113          | 24.67             | 2.81               | 559.758   | 27.48      | 36               | Pass        |
| 177   | 5885              | 17.75               | 17.63   | 17.51   | 17.94   | 236.103          | 23.73             | 2.81               | 450.817   | 26.54      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11n (HT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 18.54               | 18.51   | 18.40   | 18.72   | 286.064          | 24.56             | 2.81               | 545.758   | 27.37      | 36               | Pass        |
| 173   | 5865              | 18.67               | 18.87   | 18.59   | 18.87   | 300.078          | 24.77             | 2.81               | 572.796   | 27.58      | 36               | Pass        |
| 177   | 5885              | 17.75               | 17.86   | 17.66   | 17.95   | 241.378          | 23.83             | 2.81               | 461.318   | 26.64      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11n (HT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 21.46               | 21.08   | 21.13   | 20.86   | 519.809          | 27.16             | 2.81               | 993.116   | 29.97      | 36               | Pass        |
| 175   | 5875              | 17.69               | 17.74   | 17.52   | 17.74   | 234.101          | 23.69             | 2.81               | 446.684   | 26.50      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 18.65               | 18.62   | 18.48   | 18.82   | 292.738          | 24.66             | 2.81               | 558.47    | 27.47      | 36               | Pass        |
| 173   | 5865              | 18.77               | 18.94   | 18.65   | 18.94   | 305.304          | 24.85             | 2.81               | 583.445   | 27.66      | 36               | Pass        |
| 177   | 5885              | 17.82               | 17.92   | 17.75   | 18.02   | 245.431          | 23.90             | 2.81               | 468.813   | 26.71      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 21.56               | 21.16   | 21.20   | 20.95   | 530.113          | 27.24             | 2.81               | 1011.579  | 30.05      | 36               | Pass        |
| 175   | 5875              | 17.78               | 17.82   | 17.63   | 17.86   | 239.55           | 23.79             | 2.81               | 457.088   | 26.60      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 18.42               | 18.12   | 18.26   | 18.53   | 272.64           | 24.36             | 2.81               | 521.195   | 27.17      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 18.67               | 18.77   | 18.58   | 18.85   | 297.803          | 24.74             | 2.81               | 568.853   | 27.55      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 18.77               | 18.71   | 18.56   | 18.93   | 299.58           | 24.77             | 2.81               | 572.796   | 27.58      | 36               | Pass        |
| 173   | 5865              | 18.86               | 19.01   | 18.72   | 19.05   | 311.355          | 24.93             | 2.81               | 594.292   | 27.74      | 36               | Pass        |
| 177   | 5885              | 17.92               | 18.04   | 17.87   | 18.10   | 251.424          | 24.00             | 2.81               | 479.733   | 26.81      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 21.67               | 21.22   | 21.31   | 21.05   | 541.884          | 27.34             | 2.81               | 1035.142  | 30.15      | 36               | Pass        |
| 175   | 5875              | 17.90               | 17.91   | 17.73   | 17.93   | 244.841          | 23.89             | 2.81               | 467.735   | 26.70      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 18.50               | 18.21   | 18.37   | 18.62   | 278.501          | 24.45             | 2.81               | 532.108   | 27.26      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 18.73               | 18.87   | 18.65   | 18.91   | 302.821          | 24.81             | 2.81               | 578.096   | 27.62      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11n (HT20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 18.54               | 18.51   | 18.40   | 18.72   | 286.064          | 24.56             | 8.26                   | 1914.256  | 32.82      | 36               | Pass        |
| 173   | 5865              | 18.67               | 18.87   | 18.59   | 18.87   | 300.078          | 24.77             | 8.10                   | 1936.422  | 32.87      | 36               | Pass        |
| 177   | 5885              | 17.75               | 17.86   | 17.66   | 17.95   | 241.378          | 23.83             | 8.10                   | 1559.553  | 31.93      | 36               | Pass        |

**Notes:**

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11n (HT40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 21.46               | 21.08   | 21.13   | 20.86   | 519.809          | 27.16             | 8.26                   | 3483.373  | 35.42      | 36               | Pass        |
| 175   | 5875              | 17.69               | 17.74   | 17.52   | 17.74   | 234.101          | 23.69             | 8.10                   | 1510.080  | 31.79      | 36               | Pass        |

**Notes:**

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ac (VHT20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 18.65               | 18.62   | 18.48   | 18.82   | 292.738          | 24.66             | 8.26                   | 1958.845  | 32.92      | 36               | Pass        |
| 173   | 5865              | 18.77               | 18.94   | 18.65   | 18.94   | 305.304          | 24.85             | 8.10                   | 1972.423  | 32.95      | 36               | Pass        |
| 177   | 5885              | 17.82               | 17.92   | 17.75   | 18.02   | 245.431          | 23.90             | 8.10                   | 1584.893  | 32.00      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ac (VHT40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 21.56               | 21.16   | 21.20   | 20.95   | 530.113          | 27.24             | 8.26                   | 3548.134  | 35.50      | 36               | Pass        |
| 175   | 5875              | 17.78               | 17.82   | 17.63   | 17.86   | 239.55           | 23.79             | 8.10                   | 1545.254  | 31.89      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ac (VHT80) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 171   | 5855              | 18.42               | 18.12   | 18.26   | 18.53   | 272.64           | 24.36             | 8.26                   | 1828.1    | 32.62      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ac (VHT160) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 163   | 5815              | 18.67               | 18.77   | 18.58   | 18.85   | 297.803          | 24.74             | 8.26                   | 1995.262  | 33.00      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ax (HE20) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 169   | 5845              | 18.77               | 18.71   | 18.56   | 18.93   | 299.58           | 24.77             | 8.26                   | 2009.093  | 33.03      | 36               | Pass        |
| 173   | 5865              | 18.86               | 19.01   | 18.72   | 19.05   | 311.355          | 24.93             | 8.10                   | 2009.093  | 33.03      | 36               | Pass        |
| 177   | 5885              | 17.92               | 18.04   | 17.87   | 18.10   | 251.424          | 24.00             | 8.10                   | 1621.81   | 32.10      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ax (HE40) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 167   | 5835              | 21.67               | 21.22   | 21.31   | 21.05   | 541.884          | 27.34             | 8.26                   | 3630.781  | 35.60      | 36               | Pass        |
| 175   | 5875              | 17.90               | 17.91   | 17.73   | 17.93   | 244.841          | 23.89             | 8.10                   | 1581.248  | 31.99      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ax (HE80) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 171   | 5855              | 18.50               | 18.21   | 18.37   | 18.62   | 278.501          | 24.45             | 8.26                   | 1866.38   | 32.71      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ax (HE160) Beamforming

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Directional Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|---------|---------|------------------|-------------------|------------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                  |                   |                        |           |            |                  |             |
| 163   | 5815              | 18.73               | 18.87   | 18.65   | 18.91   | 302.821          | 24.81             | 8.26                   | 2027.683  | 33.07      | 36               | Pass        |

#### Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
3. For U-NII-4, The directional gain is 8.1 dBi

## FAP-433G\_Scanning Radio (Test Mode I)

### 802.11a CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.26               | 22.13   | 331.573          | 25.21             | 2.81               | 633.870   | 28.02      | 36               | Pass        |
| 173   | 5865              | 21.02               | 20.95   | 250.925          | 24.00             | 2.81               | 479.733   | 26.81      | 36               | Pass        |
| 177   | 5885              | 19.55               | 19.43   | 177.857          | 22.50             | 2.81               | 339.625   | 25.31      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11n (HT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.12               | 22.08   | 324.365          | 25.11             | 2.81               | 619.441   | 27.92      | 36               | Pass        |
| 173   | 5865              | 20.96               | 20.84   | 246.077          | 23.91             | 2.81               | 469.894   | 26.72      | 36               | Pass        |
| 177   | 5885              | 19.59               | 19.51   | 180.322          | 22.56             | 2.81               | 344.350   | 25.37      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11n (HT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 22.73               | 22.71   | 374.137          | 25.73             | 2.81               | 714.496   | 28.54      | 36               | Pass        |
| 175   | 5875              | 19.21               | 19.23   | 167.121          | 22.23             | 2.81               | 319.154   | 25.04      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.23               | 22.16   | 331.546          | 25.21             | 2.81               | 633.870   | 28.02      | 36               | Pass        |
| 173   | 5865              | 21.08               | 20.93   | 252.113          | 24.02             | 2.81               | 481.948   | 26.83      | 36               | Pass        |
| 177   | 5885              | 19.70               | 19.59   | 184.317          | 22.66             | 2.81               | 352.371   | 25.47      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 22.80               | 22.79   | 380.654          | 25.81             | 2.81               | 727.78    | 28.62      | 36               | Pass        |
| 175   | 5875              | 19.33               | 19.32   | 171.21           | 22.34             | 2.81               | 327.341   | 25.15      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 19.89               | 19.82   | 193.439          | 22.87             | 2.81               | 369.828   | 25.68      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ac (VHT160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 19.17               | 19.13   | 164.45           | 22.16             | 2.81               | 314.051   | 24.97      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE20) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 169   | 5845              | 22.35               | 22.24   | 339.285          | 25.31             | 2.81               | 648.634   | 28.12      | 36               | Pass        |
| 173   | 5865              | 21.16               | 21.02   | 257.091          | 24.10             | 2.81               | 490.908   | 26.91      | 36               | Pass        |
| 177   | 5885              | 19.80               | 19.69   | 188.61           | 22.76             | 2.81               | 360.579   | 25.57      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE40) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 167   | 5835              | 22.91               | 22.88   | 389.523          | 25.91             | 2.81               | 744.732   | 28.72      | 36               | Pass        |
| 175   | 5875              | 19.44               | 19.40   | 174.999          | 22.43             | 2.81               | 334.195   | 25.24      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE80) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 171   | 5855              | 19.96               | 19.90   | 196.807          | 22.94             | 2.81               | 375.837   | 25.75      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

### 802.11ax (HE160) CDD

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Maximum Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|---------------------|---------|------------------|-------------------|--------------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                    |           |            |                  |             |
| 163   | 5815              | 19.28               | 19.22   | 168.283          | 22.26             | 2.81               | 321.366   | 25.07      | 36               | Pass        |

Notes:

1. Directional gain is the maximum gain of antennas.
2. The maximum gain is 2.81 dBi

## 7.2 Power Spectral Density

|              |              |                           |              |            |                                           |
|--------------|--------------|---------------------------|--------------|------------|-------------------------------------------|
| Input Power: | 120Vac, 60Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Wayne Lin,<br>Jisyong Wang,<br>Ivan Tseng |
|--------------|--------------|---------------------------|--------------|------------|-------------------------------------------|

### FAP-431G\_Radio 2 (Test Mode A)

#### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 6.90                          | 7.18    | 7.22    | 7.31    | 0.35             | 13.53               | 6.31                   | 19.84              | 20                       | Pass        |
| 173   | 5865              | 7.51                          | 7.63    | 7.44    | 7.04    | 0.35             | 13.78               | 6.03                   | 19.81              | 20                       | Pass        |
| 177   | 5885              | 7.64                          | 7.62    | 6.66    | 6.92    | 0.35             | 13.60               | 6.03                   | 19.63              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
4. For U-NII-4, The directional gain is 6.03 dBi

#### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 7.31                          | 7.73    | 7.62    | 6.95    | 0.21             | 13.64               | 6.31                   | 19.95              | 20                       | Pass        |
| 173   | 5865              | 7.85                          | 7.06    | 7.76    | 7.78    | 0.21             | 13.85               | 6.03                   | 19.88              | 20                       | Pass        |
| 177   | 5885              | 7.40                          | 7.44    | 7.78    | 7.07    | 0.21             | 13.66               | 6.03                   | 19.69              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
4. For U-NII-4, The directional gain is 6.03 dBi

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 167   | 5835              | 7.26                          | 7.39    | 7.48    | 7.63    | 0.22             | 13.68               | 6.31                   | 19.99              | 20                       | Pass        |
| 175   | 5875              | 7.30                          | 7.43    | 7.58    | 7.18    | 0.22             | 13.62               | 6.03                   | 19.65              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.31 dBi
4. For U-NII-4, The directional gain is 6.03 dBi

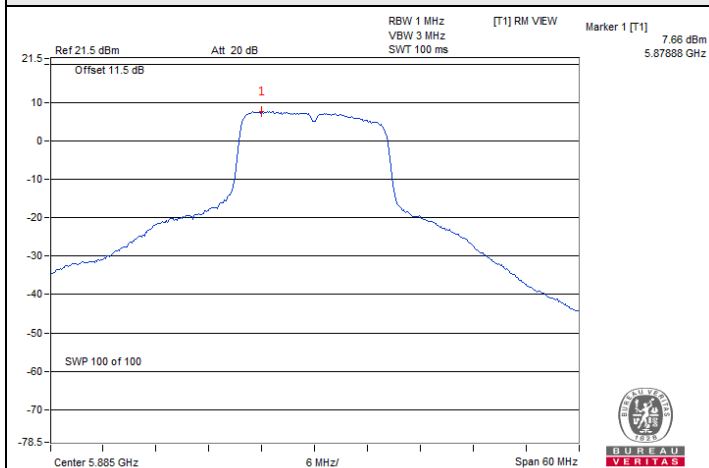
### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 171   | 5855              | 3.63                          | 3.70    | 4.54    | 4.15    | 0.23             | 10.27               | 6.31                   | 16.58              | 20                       | Pass        |

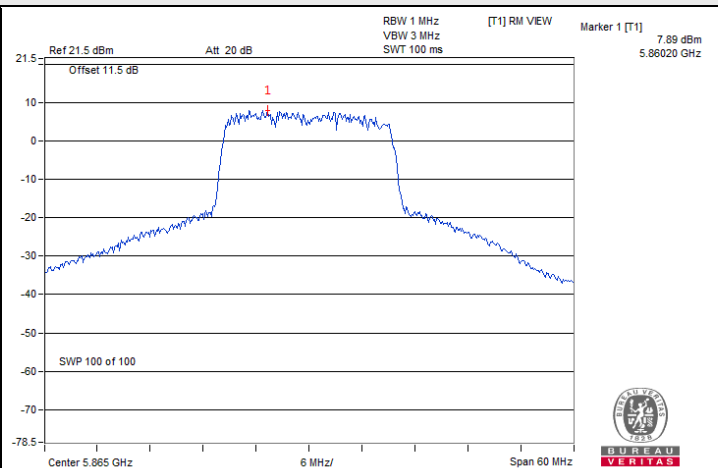
#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
4. For U-NII-4, The directional gain is 6.03 dBi

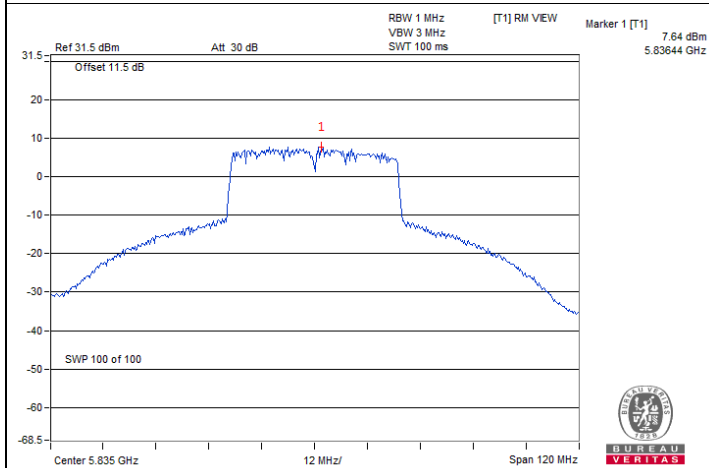
## Spectrum Plot of Maximum Value



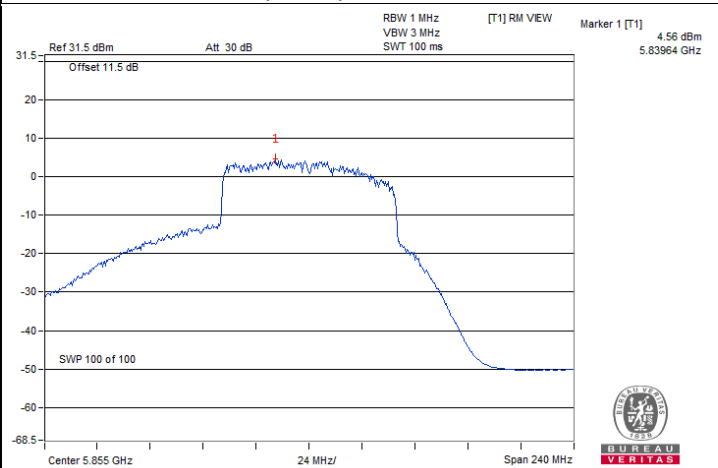
802.11a / Chain 0 : CH 177



802.11ax (HE20) / Chain 0 : CH 173



802.11ax (HE40) / Chain 3 : CH 167



802.11ax (HE80) / Chain 2 : CH 171

## FAP-431G\_Radio 3 (Test Mode C)

### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 6.99                          | 6.17    | 6.18    | 5.99    | 0.46             | 12.83               | 6.91                   | 19.74              | 20                       | Pass        |
| 173   | 5865              | 6.81                          | 6.14    | 6.52    | 6.19    | 0.46             | 12.90               | 6.61                   | 19.51              | 20                       | Pass        |
| 177   | 5885              | 4.76                          | 4.05    | 4.21    | 4.09    | 0.46             | 10.77               | 6.61                   | 17.38              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 6.74                          | 6.23    | 5.99    | 6.29    | 0.72             | 13.06               | 6.91                   | 19.97              | 20                       | Pass        |
| 173   | 5865              | 5.32                          | 6.17    | 5.86    | 6.47    | 0.72             | 12.72               | 6.61                   | 19.33              | 20                       | Pass        |
| 177   | 5885              | 4.47                          | 5.03    | 4.27    | 4.53    | 0.72             | 11.32               | 6.61                   | 17.93              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 167   | 5835              | 5.44                          | 4.27    | 5.08    | 5.20    | 0.73             | 11.77               | 6.91                   | 18.68              | 20                       | Pass        |
| 175   | 5875              | 2.35                          | 1.37    | 2.18    | 1.74    | 0.73             | 8.68                | 6.61                   | 15.29              | 20                       | Pass        |

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi

### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 171   | 5855              | -0.78                         | -1.32   | -1.37   | -0.83   | 0.77             | 5.72                | 6.91                   | 12.63              | 20                       | Pass        |

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi

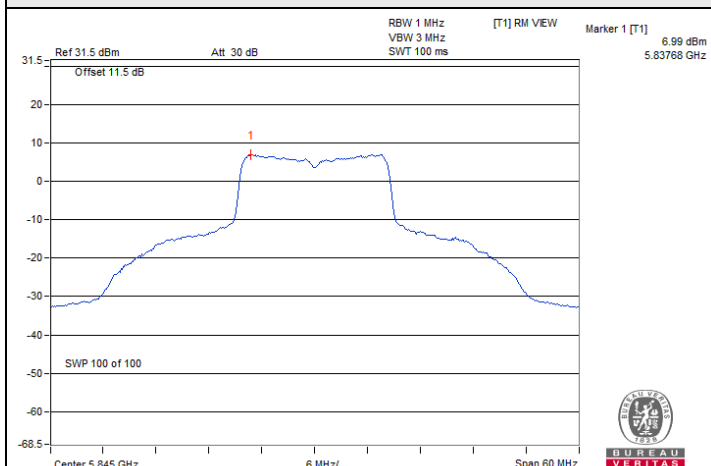
### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 163   | 5815              | -5.42                         | -5.22   | -5.05   | -5.44   | 0.37             | 1.11                | 6.91                   | 8.02               | 20                       | Pass        |

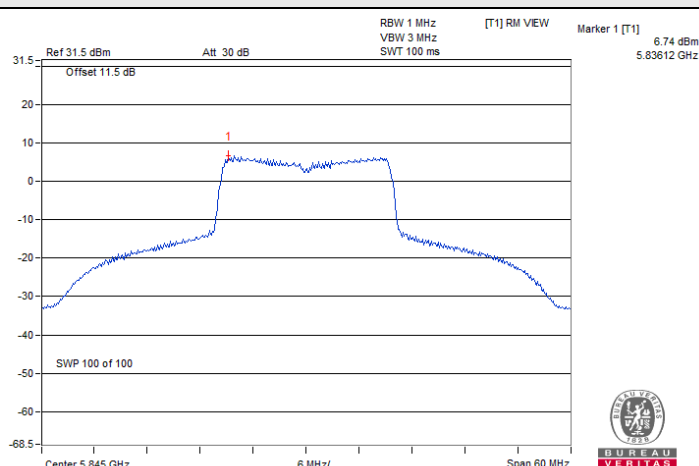
Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 6.91 dBi
4. For U-NII-4, The directional gain is 6.61 dBi

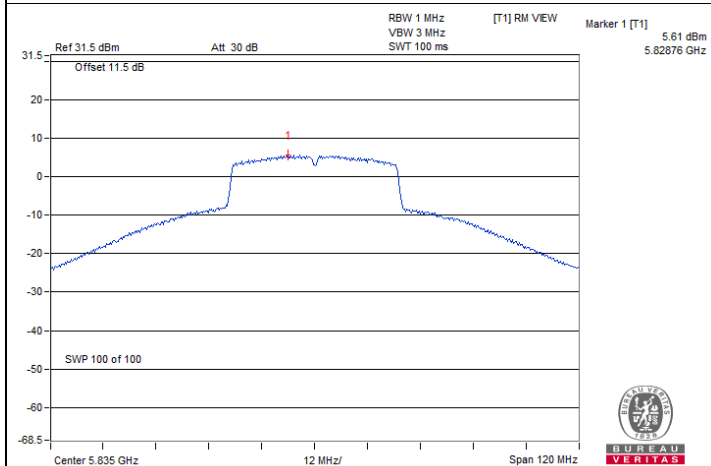
## Spectrum Plot of Maximum Value



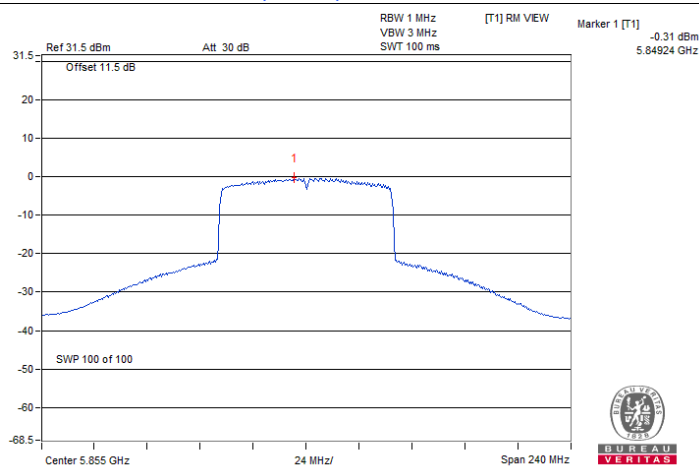
802.11a / Chain 0 : CH 169



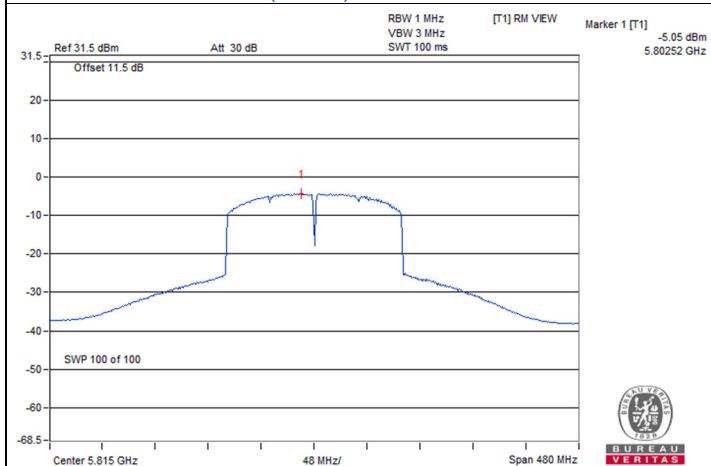
802.11ax (HE20) / Chain 0 : CH 169



802.11ax (HE40) / Chain 0 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 2 : CH 163

## FAP-431G\_Scanning Radio (Test Mode E)

### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 9.19                          | 9.28    | 0.36             | 12.61               | 1.57                   | 14.18              | 20                       | Pass        |
| 173   | 5865              | 9.82                          | 10.02   | 0.36             | 13.29               | 1.49                   | 14.78              | 20                       | Pass        |
| 177   | 5885              | 6.78                          | 5.93    | 0.36             | 9.75                | 1.49                   | 11.24              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
4. For U-NII-4, The max single gain is 1.49 dBi

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 8.63                          | 8.96    | 0.65             | 12.46               | 1.57                   | 14.03              | 20                       | Pass        |
| 173   | 5865              | 9.55                          | 9.95    | 0.65             | 13.41               | 1.49                   | 14.9               | 20                       | Pass        |
| 177   | 5885              | 6.63                          | 6.31    | 0.65             | 10.13               | 1.49                   | 11.62              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
4. For U-NII-4, The max single gain is 1.49 dBi

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 167   | 5835              | 6.68                          | 6.82    | 0.69             | 10.45               | 1.57                   | 12.02              | 20                       | Pass        |
| 175   | 5875              | 4.08                          | 3.26    | 0.69             | 7.39                | 1.49                   | 8.88               | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
4. For U-NII-4, The max single gain is 1.49 dBi

### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 171   | 5855              | 0.55                          | 0.38    | 0.65             | 4.13                | 1.57                   | 5.7                | 20                       | Pass        |

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
4. For U-NII-4, The max single gain is 1.49 dBi

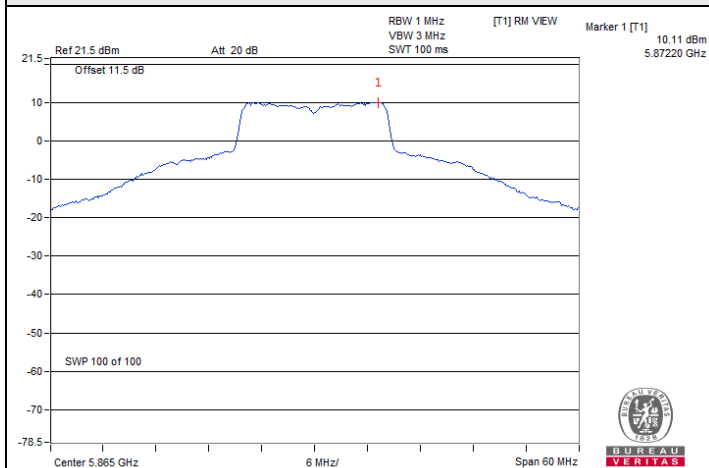
### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 163   | 5815              | -6.78                         | -7.09   | 0.36             | -3.56               | 1.57                   | -1.99              | 20                       | Pass        |

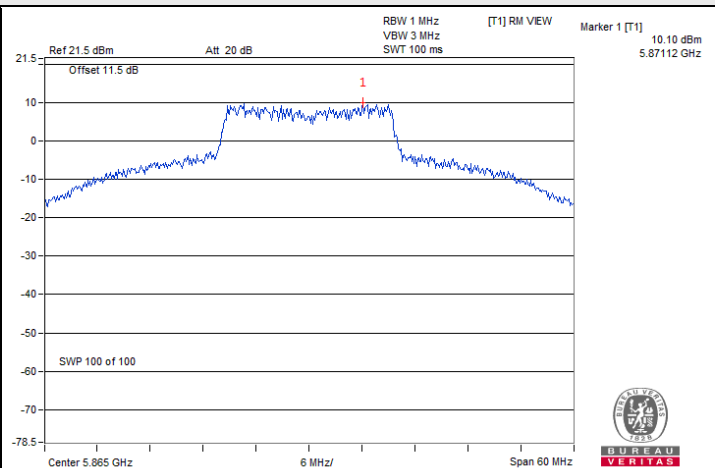
Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 1.57 dBi
4. For U-NII-4, The max single gain is 1.49 dBi

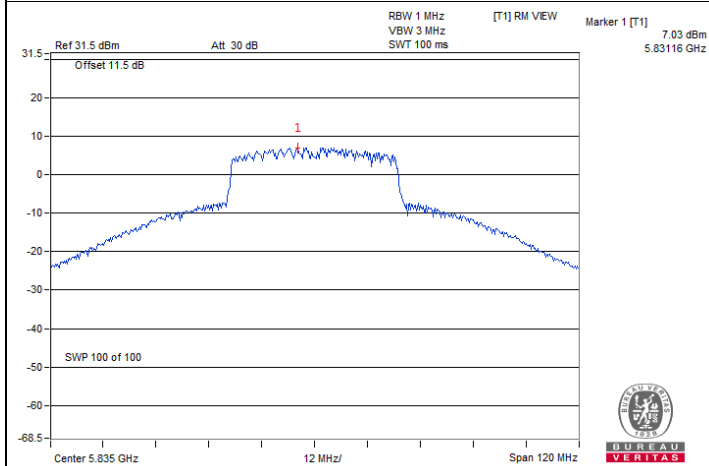
## Spectrum Plot of Maximum Value



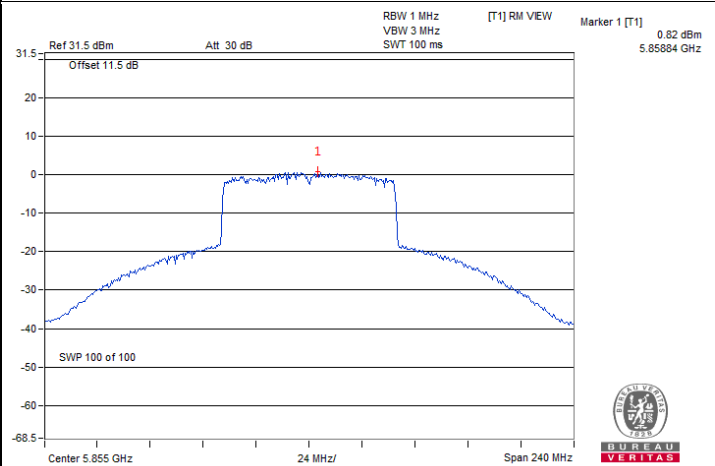
802.11a / Chain 1 : CH 173



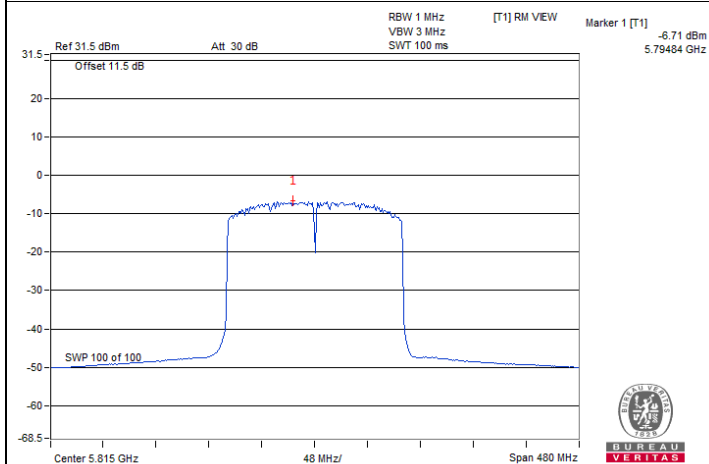
802.11ax (HE20) / Chain 1 : CH 173



802.11ax (HE40) / Chain 1 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 0 : CH 163

## FAP-433G\_Radio 3 (Test Mode G)

### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 5.37                          | 5.24    | 5.29    | 5.38    | 0.37             | 11.71               | 8.26                   | 19.97              | 20                       | Pass        |
| 173   | 5865              | 5.48                          | 5.49    | 5.37    | 5.63    | 0.37             | 11.88               | 8.10                   | 19.98              | 20                       | Pass        |
| 177   | 5885              | 4.36                          | 4.34    | 4.03    | 4.66    | 0.37             | 10.74               | 8.10                   | 18.84              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
4. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 4.84                          | 4.96    | 4.85    | 5.28    | 0.68             | 11.69               | 8.26                   | 19.95              | 20                       | Pass        |
| 173   | 5865              | 5.00                          | 5.12    | 5.07    | 5.55    | 0.68             | 11.89               | 8.10                   | 19.99              | 20                       | Pass        |
| 177   | 5885              | 4.53                          | 4.73    | 4.50    | 4.86    | 0.68             | 11.36               | 8.10                   | 19.46              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
4. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 167   | 5835              | 5.14                          | 4.66    | 4.54    | 4.52    | 0.68             | 11.42               | 8.26                   | 19.68              | 20                       | Pass        |
| 175   | 5875              | 1.58                          | 1.64    | 1.49    | 1.68    | 0.68             | 8.30                | 8.10                   | 16.4               | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
4. For U-NII-4, The directional gain is 8.1 dBi

### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 171   | 5855              | -0.95                         | -1.16   | -1.15   | -0.73   | 0.66             | 5.69                | 8.26                   | 13.95              | 20                       | Pass        |

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
4. For U-NII-4, The directional gain is 8.1 dBi

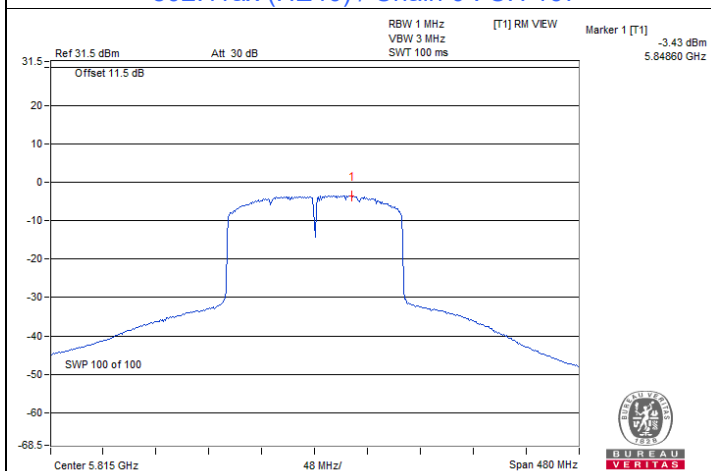
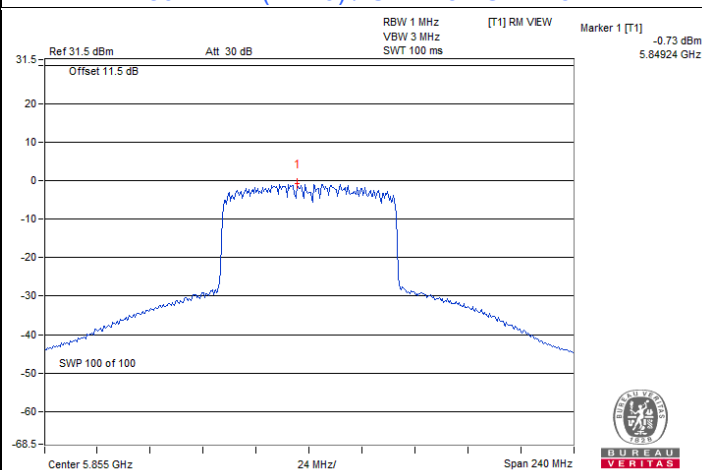
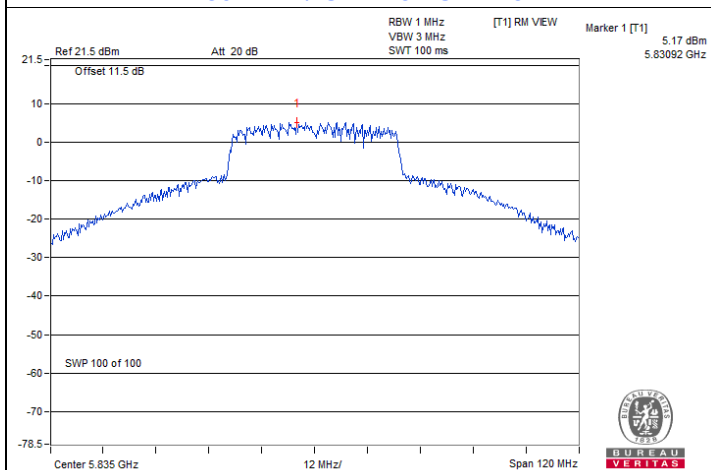
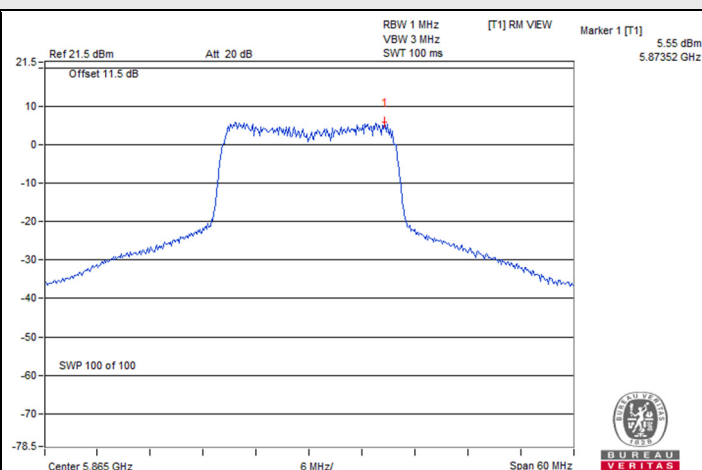
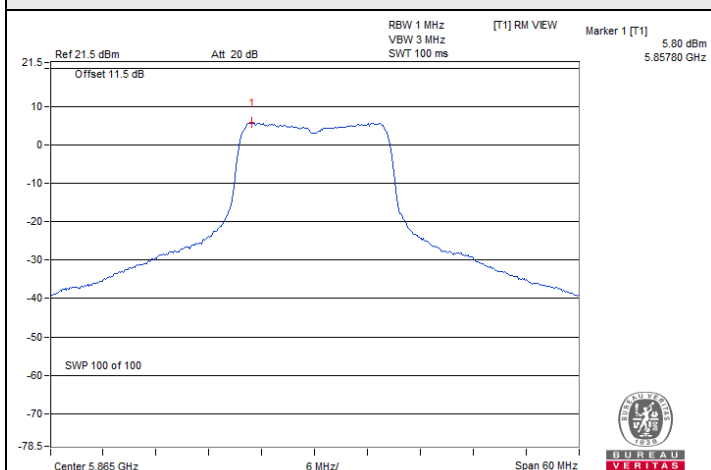
### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         |         |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|---------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 | Chain 2 | Chain 3 |                  |                     |                        |                    |                          |             |
| 163   | 5815              | -3.60                         | -3.54   | -3.57   | -3.56   | 0.38             | 2.83                | 8.26                   | 11.09              | 20                       | Pass        |

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The directional gain is 8.26 dBi
4. For U-NII-4, The directional gain is 8.1 dBi

## Spectrum Plot of Maximum Value



## FAP-433G\_Scanning Radio (Test Mode I)

### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 8.52                          | 8.37    | 0.37             | 11.83               | 2.30                   | 14.13              | 20                       | Pass        |
| 173   | 5865              | 7.49                          | 7.52    | 0.37             | 10.89               | 2.10                   | 12.99              | 20                       | Pass        |
| 177   | 5885              | 5.85                          | 5.85    | 0.37             | 9.23                | 2.10                   | 11.33              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 169   | 5845              | 8.42                          | 8.40    | 0.68             | 12.10               | 2.30                   | 14.4               | 20                       | Pass        |
| 173   | 5865              | 7.24                          | 7.57    | 0.68             | 11.10               | 2.10                   | 13.2               | 20                       | Pass        |
| 177   | 5885              | 5.93                          | 6.01    | 0.68             | 9.66                | 2.10                   | 11.76              | 20                       | Pass        |

#### Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 167   | 5835              | 6.14                          | 6.02    | 0.68             | 9.77                | 2.30                   | 12.07              | 20                       | Pass        |
| 175   | 5875              | 3.20                          | 3.09    | 0.68             | 6.84                | 2.10                   | 8.94               | 20                       | Pass        |

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 171   | 5855              | 0.70                          | 0.63    | 0.66             | 4.34                | 2.30                   | 6.64               | 20                       | Pass        |

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

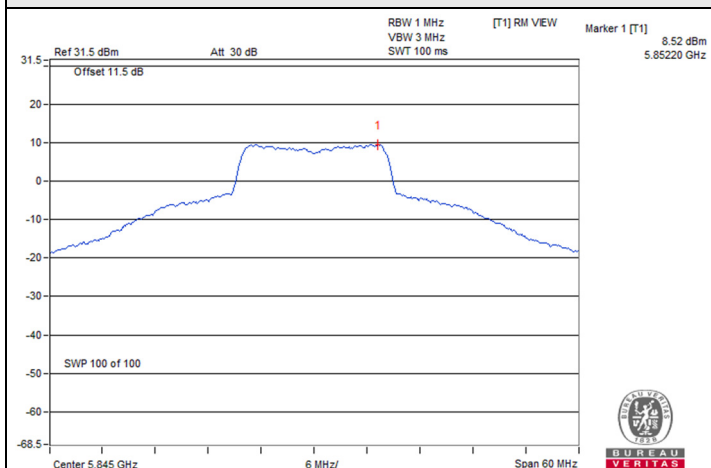
### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) |         | Duty Factor (dB) | Total PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|-------------------------------|---------|------------------|---------------------|------------------------|--------------------|--------------------------|-------------|
|       |                   | Chain 0                       | Chain 1 |                  |                     |                        |                    |                          |             |
| 163   | 5815              | -3.28                         | -3.38   | 0.38             | 0.06                | 2.30                   | 2.36               | 20                       | Pass        |

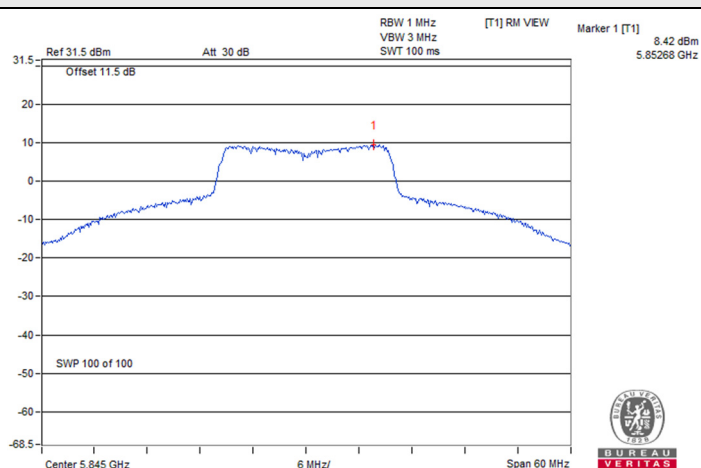
Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3 & -4 span channel, The max single gain is 2.3 dBi
4. For U-NII-4, The max single gain is 2.1 dBi

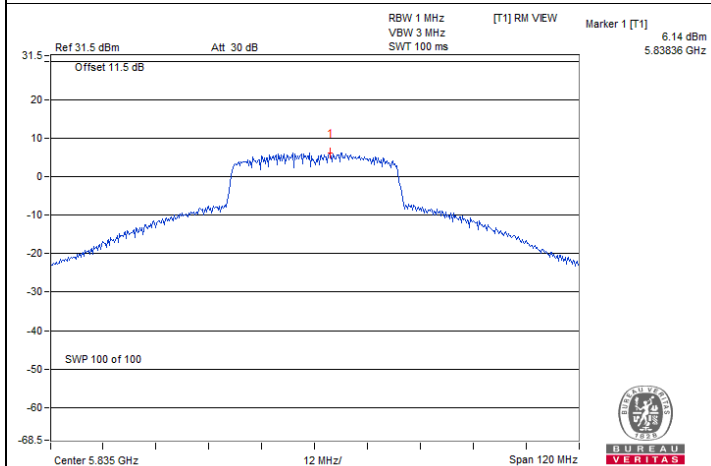
## Spectrum Plot of Maximum Value



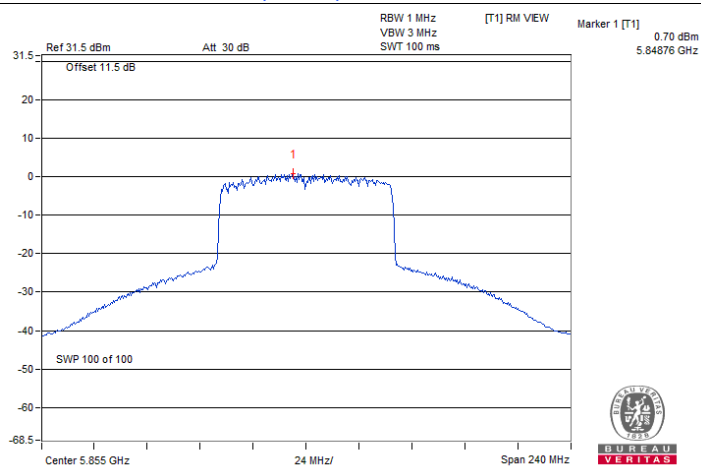
802.11a / Chain 0 : CH 169



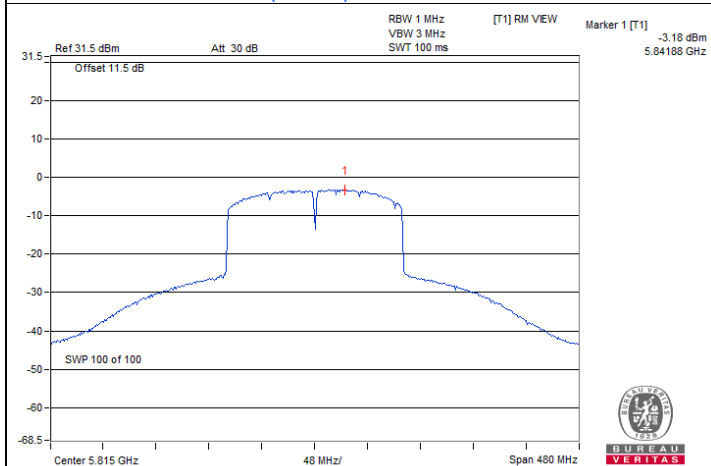
802.11ax (HE20) / Chain 0 : CH 169



802.11ax (HE40) / Chain 0 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 0 : CH 163

### 7.3 6 dB Bandwidth

|              |              |                           |              |            |                                            |
|--------------|--------------|---------------------------|--------------|------------|--------------------------------------------|
| Input Power: | 120Vac, 60Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Wayne Lin,<br>Jisyoung Wang,<br>Ivan Tseng |
|--------------|--------------|---------------------------|--------------|------------|--------------------------------------------|

#### FAP-431G\_Radio 2 (Test Mode A)

##### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 169     | 5845            | 16.38               | 15.10   | 16.38   | 16.38   | 0.5                 | Pass        |
| 173     | 5865            | 16.35               | 15.97   | 16.08   | 16.31   | 0.5                 | Pass        |
| 177     | 5885            | 15.76               | 15.76   | 15.77   | 16.06   | 0.5                 | Pass        |

##### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 169     | 5845            | 18.73               | 16.73   | 18.95   | 18.85   | 0.5                 | Pass        |
| 173     | 5865            | 19.01               | 18.90   | 18.91   | 18.88   | 0.5                 | Pass        |
| 177     | 5885            | 18.91               | 16.72   | 17.83   | 18.55   | 0.5                 | Pass        |

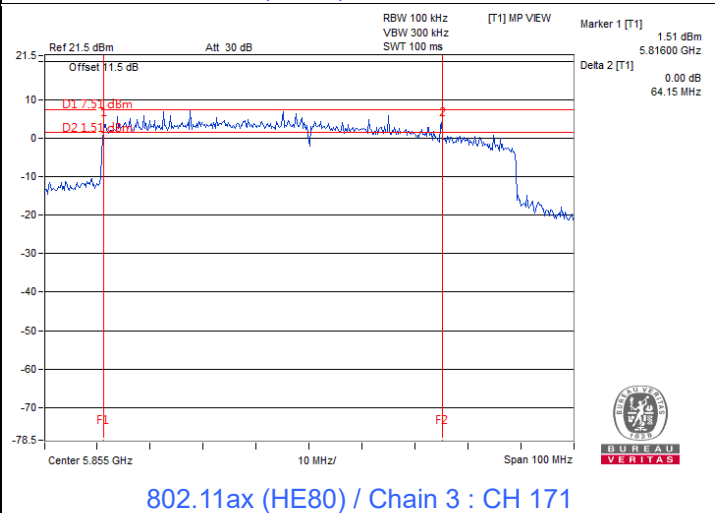
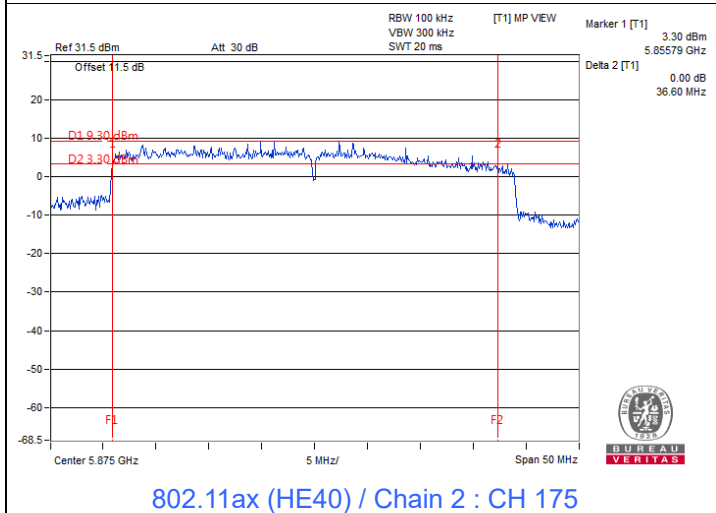
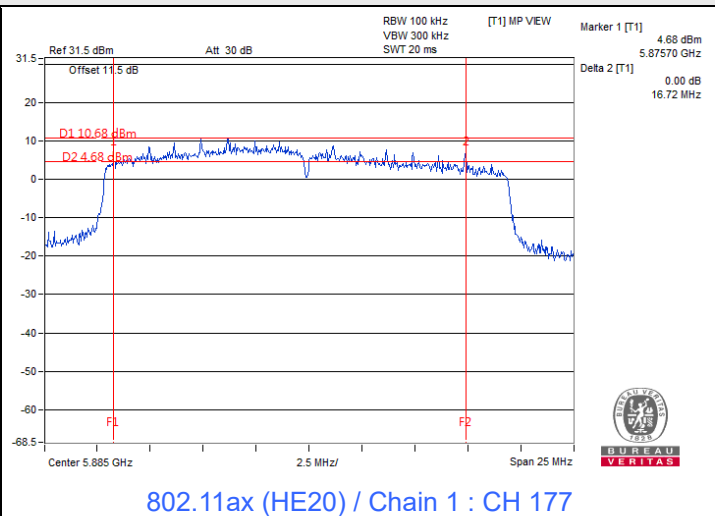
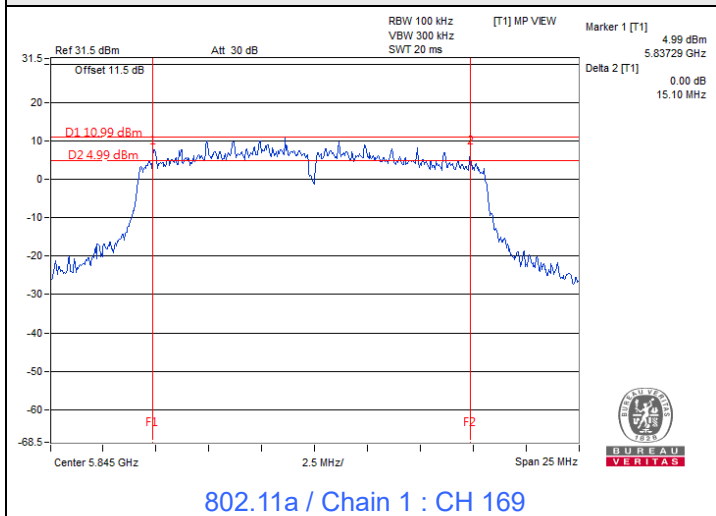
##### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 167     | 5835            | 37.71               | 38.20   | 37.73   | 37.98   | 0.5                 | Pass        |
| 175     | 5875            | 37.83               | 37.06   | 36.60   | 36.72   | 0.5                 | Pass        |

##### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 171     | 5855            | 71.85               | 64.18   | 64.74   | 64.15   | 0.5                 | Pass        |

## Spectrum Plot of Minimum Value



# FAP-431G\_Radio 3 (Test Mode C)

## 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 169     | 5845            | 16.41               | 16.41   | 16.40   | 16.41   | 0.5                 | Pass        |
| 173     | 5865            | 16.41               | 16.41   | 16.39   | 16.41   | 0.5                 | Pass        |
| 177     | 5885            | 16.40               | 16.40   | 16.40   | 16.41   | 0.5                 | Pass        |

## 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 169     | 5845            | 19.14               | 19.14   | 19.10   | 19.15   | 0.5                 | Pass        |
| 173     | 5865            | 19.13               | 19.14   | 19.14   | 19.16   | 0.5                 | Pass        |
| 177     | 5885            | 19.10               | 19.14   | 19.14   | 19.14   | 0.5                 | Pass        |

## 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 167     | 5835            | 37.73               | 37.91   | 37.80   | 37.99   | 0.5                 | Pass        |
| 175     | 5875            | 37.80               | 37.97   | 37.82   | 37.94   | 0.5                 | Pass        |

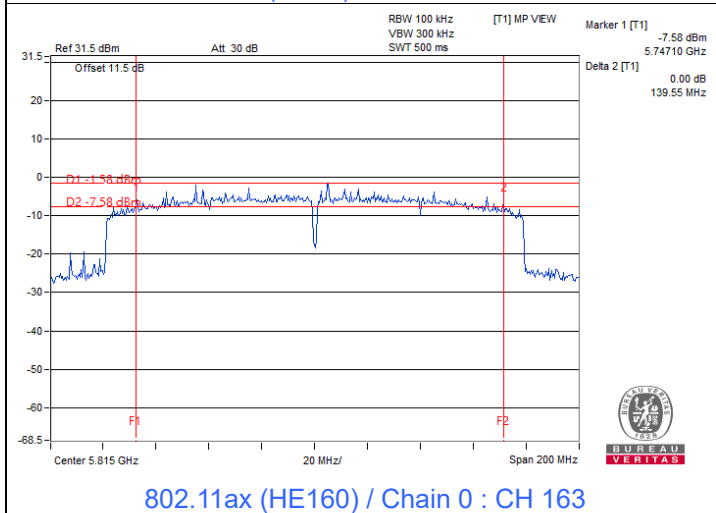
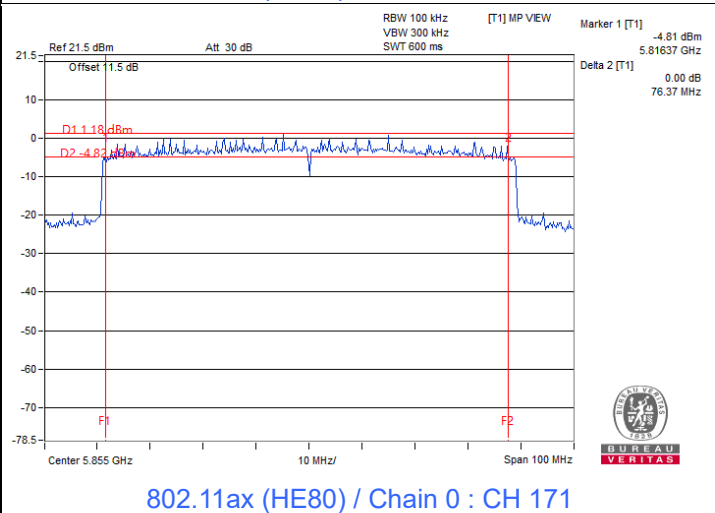
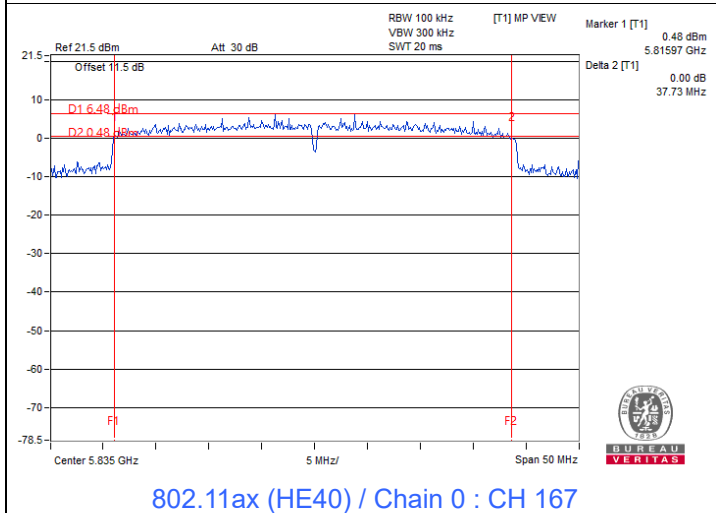
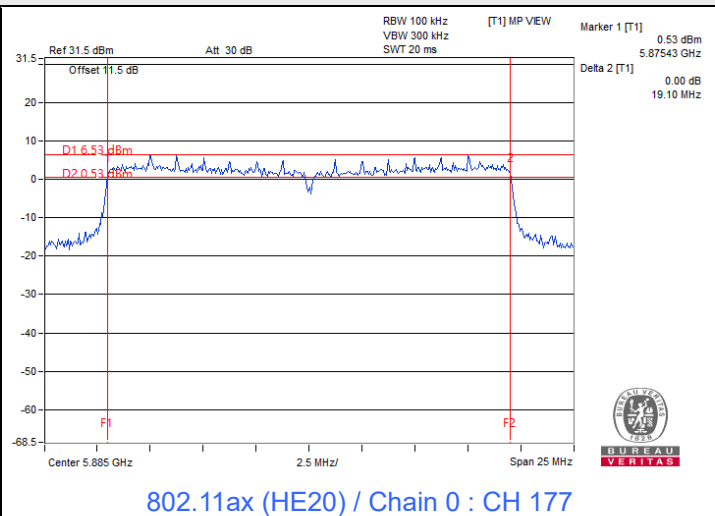
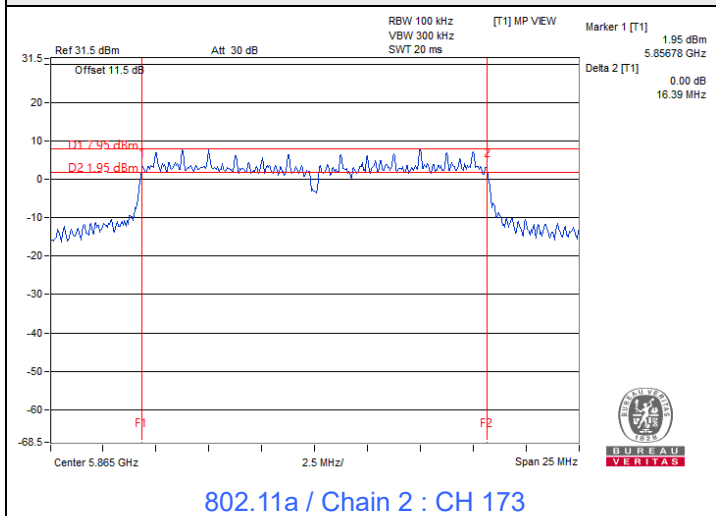
## 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 171     | 5855            | 76.37               | 77.92   | 77.71   | 77.69   | 0.5                 | Pass        |

## 802.11ax (HE160)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 163     | 5815            | 139.55              | 152.00  | 148.60  | 151.84  | 0.5                 | Pass        |

## Spectrum Plot of Minimum Value



## FAP-431G\_Scanning Radio (Test Mode E)

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 169     | 5845            | 16.40               | 16.45   | 0.5                 | Pass        |
| 173     | 5865            | 16.43               | 16.43   | 0.5                 | Pass        |
| 177     | 5885            | 16.40               | 16.39   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 169     | 5845            | 19.06               | 19.07   | 0.5                 | Pass        |
| 173     | 5865            | 19.16               | 19.11   | 0.5                 | Pass        |
| 177     | 5885            | 19.14               | 19.11   | 0.5                 | Pass        |

### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 167     | 5835            | 37.44               | 37.00   | 0.5                 | Pass        |
| 175     | 5875            | 37.81               | 37.36   | 0.5                 | Pass        |

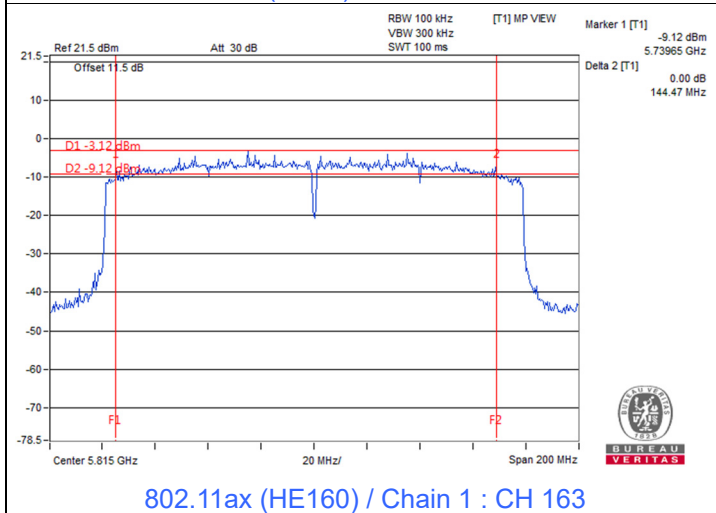
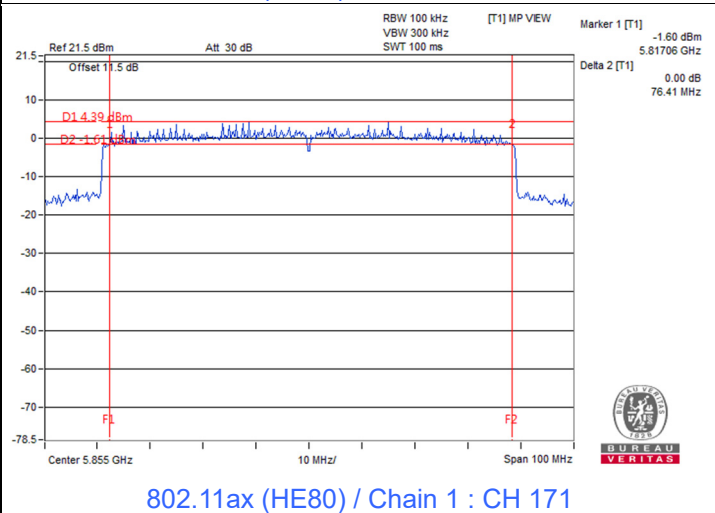
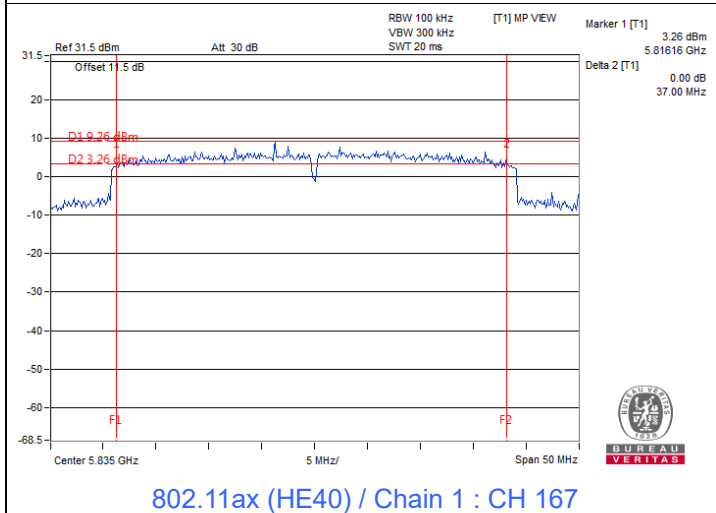
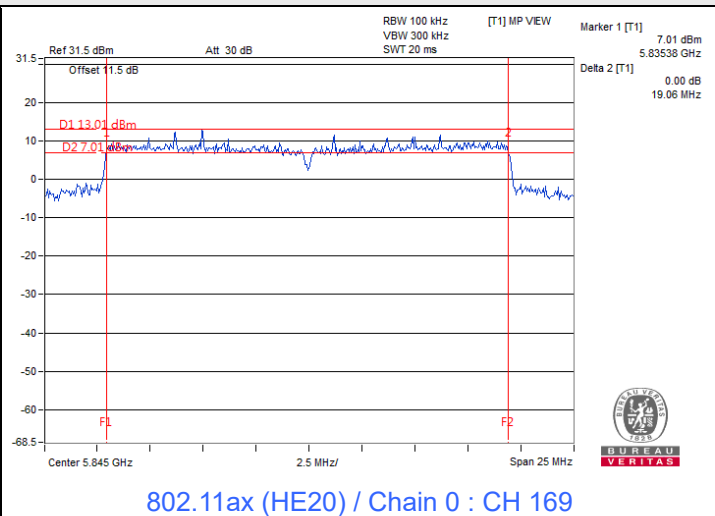
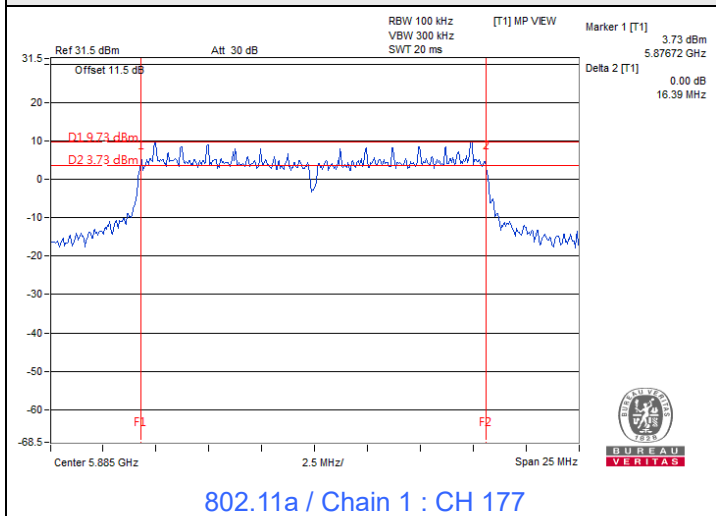
### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 171     | 5855            | 77.07               | 76.41   | 0.5                 | Pass        |

### 802.11ax (HE160)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 163     | 5815            | 148.77              | 144.47  | 0.5                 | Pass        |

## Spectrum Plot of Minimum Value



# FAP-433G\_Radio 3 (Test Mode G)

## 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 169     | 5845            | 16.37               | 16.37   | 16.38   | 16.37   | 0.5                 | Pass        |
| 173     | 5865            | 16.37               | 16.37   | 16.38   | 16.37   | 0.5                 | Pass        |
| 177     | 5885            | 16.39               | 16.36   | 16.37   | 16.38   | 0.5                 | Pass        |

## 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 169     | 5845            | 19.08               | 19.04   | 19.01   | 19.02   | 0.5                 | Pass        |
| 173     | 5865            | 19.05               | 19.05   | 19.05   | 19.07   | 0.5                 | Pass        |
| 177     | 5885            | 19.03               | 19.14   | 19.06   | 19.04   | 0.5                 | Pass        |

## 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 167     | 5835            | 37.99               | 37.64   | 37.82   | 37.23   | 0.5                 | Pass        |
| 175     | 5875            | 37.74               | 37.81   | 37.65   | 37.67   | 0.5                 | Pass        |

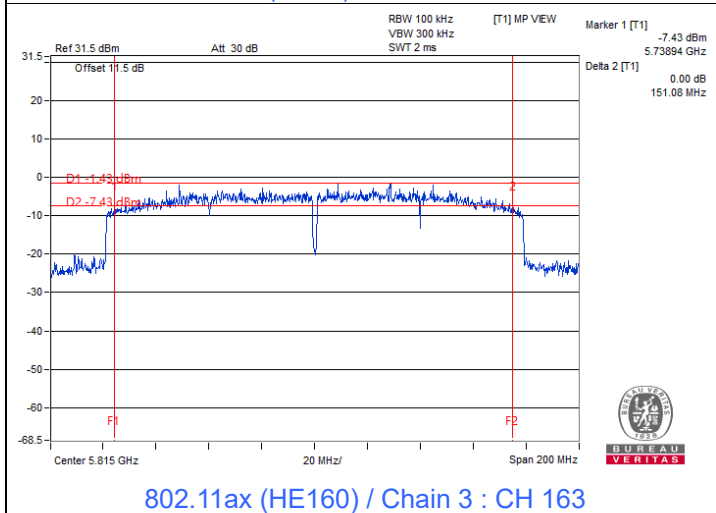
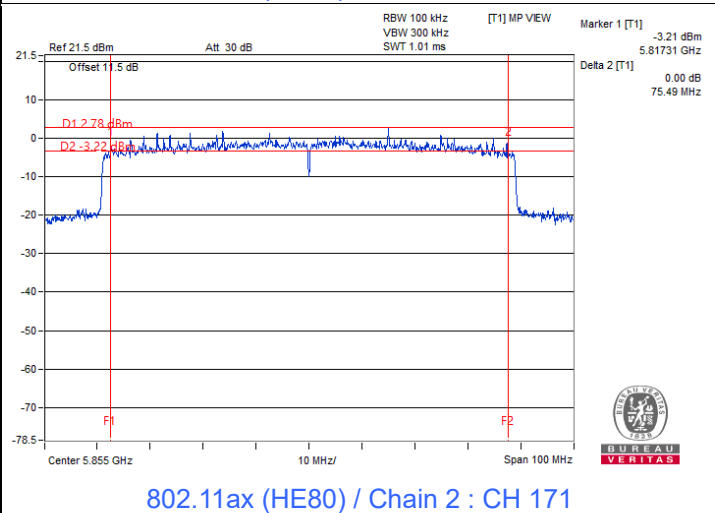
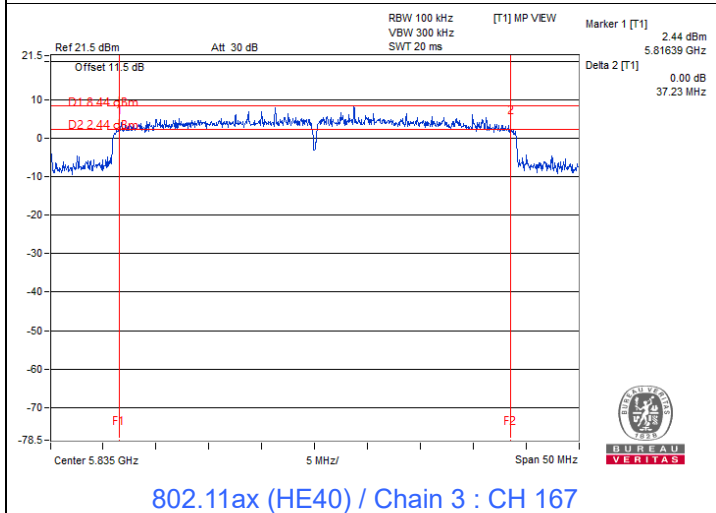
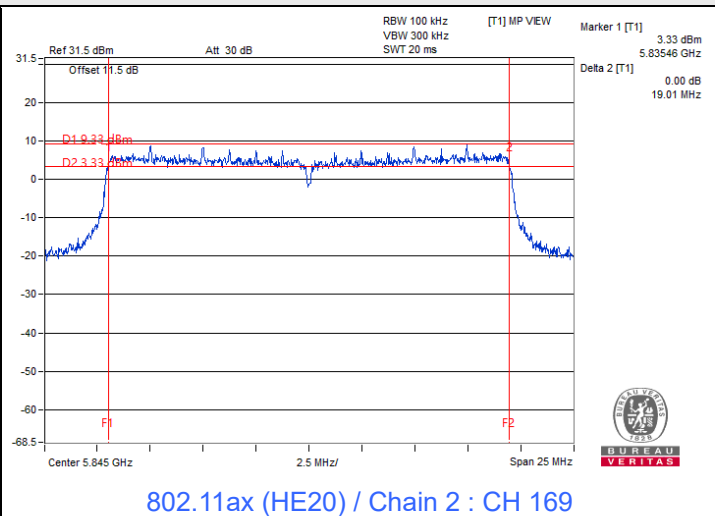
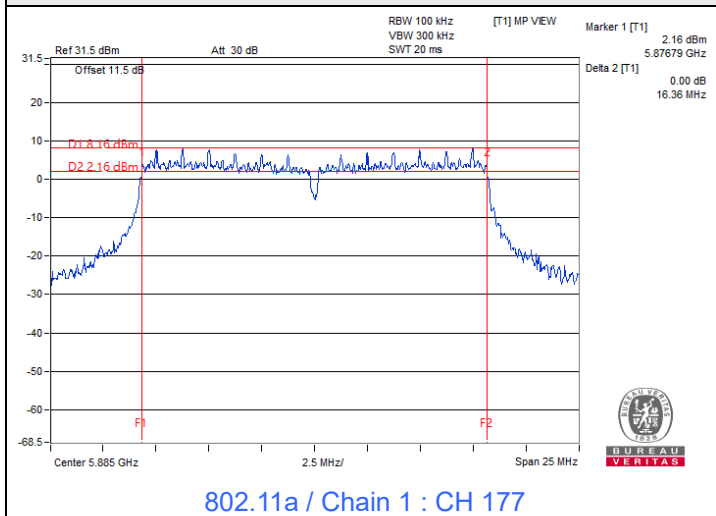
## 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 171     | 5855            | 76.35               | 76.61   | 75.49   | 77.26   | 0.5                 | Pass        |

## 802.11ax (HE160)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         |         |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |                     |             |
| 163     | 5815            | 151.23              | 155.27  | 152.71  | 151.08  | 0.5                 | Pass        |

## Spectrum Plot of Minimum Value



## FAP-433G\_Scanning Radio (Test Mode I)

### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 169     | 5845            | 16.44               | 16.42   | 0.5                 | Pass        |
| 173     | 5865            | 16.40               | 16.42   | 0.5                 | Pass        |
| 177     | 5885            | 16.40               | 16.41   | 0.5                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 169     | 5845            | 19.12               | 19.03   | 0.5                 | Pass        |
| 173     | 5865            | 19.10               | 19.07   | 0.5                 | Pass        |
| 177     | 5885            | 19.10               | 19.08   | 0.5                 | Pass        |

### 802.11ax (HE40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 167     | 5835            | 37.72               | 37.56   | 0.5                 | Pass        |
| 175     | 5875            | 37.63               | 37.80   | 0.5                 | Pass        |

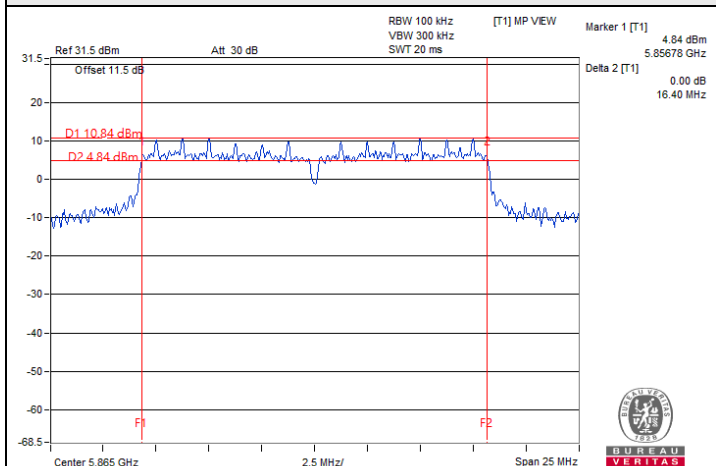
### 802.11ax (HE80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 171     | 5855            | 76.22               | 76.43   | 0.5                 | Pass        |

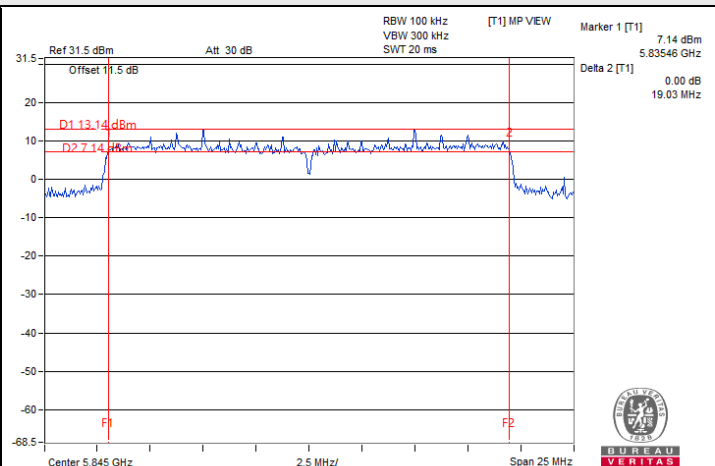
### 802.11ax (HE160)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |         | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------|---------------------|-------------|
|         |                 | Chain 0             | Chain 1 |                     |             |
| 163     | 5815            | 151.74              | 155.33  | 0.5                 | Pass        |

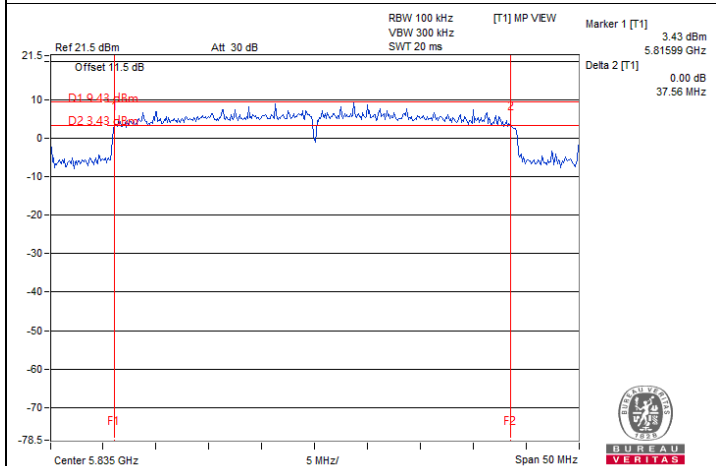
## Spectrum Plot of Minimum Value



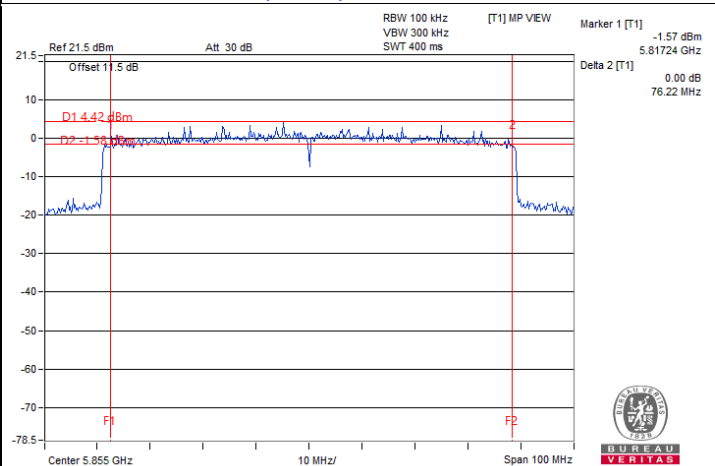
802.11a / Chain 0 : CH 173



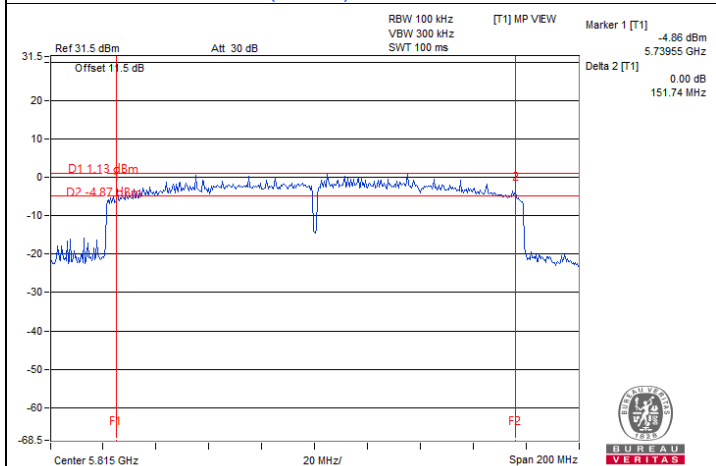
802.11ax (HE20) / Chain 1 : CH 169



802.11ax (HE40) / Chain 1 : CH 167



802.11ax (HE80) / Chain 0 : CH 171



802.11ax (HE160) / Chain 0 : CH 163

#### 7.4 Frequency Stability

|              |              |                           |              |            |                                            |
|--------------|--------------|---------------------------|--------------|------------|--------------------------------------------|
| Input Power: | 120Vac, 60Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Wayne Lin,<br>Jisyoung Wang,<br>Ivan Tseng |
|--------------|--------------|---------------------------|--------------|------------|--------------------------------------------|

#### FAP-431G\_Radio 2 (Test Mode A)

##### 802.11a

| Frequency Stability Versus Temp. |                       |                             |             |                             |             |                             |             |                             |             |
|----------------------------------|-----------------------|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Operating Frequency: 5885 MHz    |                       |                             |             |                             |             |                             |             |                             |             |
| TEMP.<br>(°C)                    | Power Supply<br>(Vac) | 0 Minute                    |             | 2 Minutes                   |             | 5 Minutes                   |             | 10 Minutes                  |             |
|                                  |                       | Measured Frequency<br>(MHz) | Test Result | Measured Frequency<br>(MHz) | Test Result | Measured Frequency<br>(MHz) | Test Result | Measured Frequency<br>(MHz) | Test Result |
| 50                               | 120                   | 5884.9909                   | Pass        | 5884.9914                   | Pass        | 5884.9917                   | Pass        | 5884.9907                   | Pass        |
| 40                               | 120                   | 5884.975                    | Pass        | 5884.9741                   | Pass        | 5884.9782                   | Pass        | 5884.9762                   | Pass        |
| 30                               | 120                   | 5885.0047                   | Pass        | 5885.0079                   | Pass        | 5885.0084                   | Pass        | 5885.01                     | Pass        |
| 20                               | 120                   | 5885.0214                   | Pass        | 5885.0229                   | Pass        | 5885.0199                   | Pass        | 5885.0199                   | Pass        |
| 10                               | 120                   | 5885.0205                   | Pass        | 5885.0161                   | Pass        | 5885.0193                   | Pass        | 5885.0156                   | Pass        |
| 0                                | 120                   | 5885.0116                   | Pass        | 5885.0136                   | Pass        | 5885.0107                   | Pass        | 5885.0136                   | Pass        |

| Frequency Stability Versus Voltage |                       |                             |             |                             |             |                             |             |                             |             |
|------------------------------------|-----------------------|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Operating Frequency: 5885 MHz      |                       |                             |             |                             |             |                             |             |                             |             |
| TEMP.<br>(°C)                      | Power Supply<br>(Vac) | 0 Minute                    |             | 2 Minutes                   |             | 5 Minutes                   |             | 10 Minutes                  |             |
|                                    |                       | Measured Frequency<br>(MHz) | Test Result | Measured Frequency<br>(MHz) | Test Result | Measured Frequency<br>(MHz) | Test Result | Measured Frequency<br>(MHz) | Test Result |
| 20                                 | 138                   | 5885.0125                   | Pass        | 5885.0087                   | Pass        | 5885.0126                   | Pass        | 5885.0093                   | Pass        |
|                                    | 120                   | 5885.0214                   | Pass        | 5885.0229                   | Pass        | 5885.0199                   | Pass        | 5885.0199                   | Pass        |
|                                    | 102                   | 5885.0096                   | Pass        | 5885.0103                   | Pass        | 5885.0098                   | Pass        | 5885.0112                   | Pass        |

**FAP-431G\_Radio 3 (Test Mode C)**
**802.11a**

| Frequency Stability Versus Temp. |                          |                                |                |                                |                |                                |                |                                |                |
|----------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz    |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                    | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 50                               | 120                      | 5885.001                       | Pass           | 5884.9974                      | Pass           | 5884.9996                      | Pass           | 5884.9989                      | Pass           |
| 40                               | 120                      | 5884.9898                      | Pass           | 5884.985                       | Pass           | 5884.985                       | Pass           | 5884.9848                      | Pass           |
| 30                               | 120                      | 5884.9812                      | Pass           | 5884.9804                      | Pass           | 5884.9812                      | Pass           | 5884.9788                      | Pass           |
| 20                               | 120                      | 5885.0125                      | Pass           | 5885.0127                      | Pass           | 5885.0131                      | Pass           | 5885.0134                      | Pass           |
| 10                               | 120                      | 5885.009                       | Pass           | 5885.0108                      | Pass           | 5885.0099                      | Pass           | 5885.0081                      | Pass           |
| 0                                | 120                      | 5885.0108                      | Pass           | 5885.0073                      | Pass           | 5885.0105                      | Pass           | 5885.011                       | Pass           |

| Frequency Stability Versus Voltage |                          |                                |                |                                |                |                                |                |                                |                |
|------------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz      |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                      | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                    |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 20                                 | 138                      | 5884.9992                      | Pass           | 5885.0015                      | Pass           | 5885.0031                      | Pass           | 5885.0016                      | Pass           |
|                                    | 120                      | 5885.0125                      | Pass           | 5885.0127                      | Pass           | 5885.0131                      | Pass           | 5885.0134                      | Pass           |
|                                    | 102                      | 5885.0115                      | Pass           | 5885.0081                      | Pass           | 5885.008                       | Pass           | 5885.0111                      | Pass           |

# FAP-431G\_Scanning Radio (Test Mode E)

802.11a

| Frequency Stability Versus Temp. |                          |                                |                |                                |                |                                |                |                                |                |
|----------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz    |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                    | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 50                               | 120                      | 5884.9947                      | Pass           | 5884.9934                      | Pass           | 5884.9957                      | Pass           | 5884.9946                      | Pass           |
| 40                               | 120                      | 5885.0157                      | Pass           | 5885.0169                      | Pass           | 5885.0208                      | Pass           | 5885.0208                      | Pass           |
| 30                               | 120                      | 5885.0109                      | Pass           | 5885.014                       | Pass           | 5885.0106                      | Pass           | 5885.012                       | Pass           |
| 20                               | 120                      | 5885.0238                      | Pass           | 5885.023                       | Pass           | 5885.0214                      | Pass           | 5885.0218                      | Pass           |
| 10                               | 120                      | 5885.0126                      | Pass           | 5885.0123                      | Pass           | 5885.0116                      | Pass           | 5885.0137                      | Pass           |
| 0                                | 120                      | 5884.9716                      | Pass           | 5884.974                       | Pass           | 5884.9709                      | Pass           | 5884.9716                      | Pass           |

| Frequency Stability Versus Voltage |                          |                                |                |                                |                |                                |                |                                |                |
|------------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz      |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                      | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                    |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 20                                 | 138                      | 5885.0219                      | Pass           | 5885.0222                      | Pass           | 5885.0212                      | Pass           | 5885.0236                      | Pass           |
|                                    | 120                      | 5885.0238                      | Pass           | 5885.023                       | Pass           | 5885.0214                      | Pass           | 5885.0218                      | Pass           |
|                                    | 102                      | 5885.0317                      | Pass           | 5885.0328                      | Pass           | 5885.0323                      | Pass           | 5885.0356                      | Pass           |

**FAP-433G\_Radio 3 (Test Mode G)**
**802.11a**

| Frequency Stability Versus Temp. |                          |                                |                |                                |                |                                |                |                                |                |
|----------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz    |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                    | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 50                               | 120                      | 5884.9749                      | Pass           | 5884.9772                      | Pass           | 5884.9735                      | Pass           | 5884.976                       | Pass           |
| 40                               | 120                      | 5884.9923                      | Pass           | 5884.9933                      | Pass           | 5884.9934                      | Pass           | 5884.9932                      | Pass           |
| 30                               | 120                      | 5884.9896                      | Pass           | 5884.986                       | Pass           | 5884.9868                      | Pass           | 5884.9844                      | Pass           |
| 20                               | 120                      | 5884.9904                      | Pass           | 5884.9923                      | Pass           | 5884.9927                      | Pass           | 5884.993                       | Pass           |
| 10                               | 120                      | 5884.9797                      | Pass           | 5884.9815                      | Pass           | 5884.9806                      | Pass           | 5884.9788                      | Pass           |
| 0                                | 120                      | 5884.9756                      | Pass           | 5884.978                       | Pass           | 5884.9753                      | Pass           | 5884.9758                      | Pass           |

| Frequency Stability Versus Voltage |                          |                                |                |                                |                |                                |                |                                |                |
|------------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz      |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                      | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                    |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 20                                 | 138                      | 5884.9905                      | Pass           | 5884.9869                      | Pass           | 5884.9916                      | Pass           | 5884.9901                      | Pass           |
|                                    | 120                      | 5884.9904                      | Pass           | 5884.9923                      | Pass           | 5884.9927                      | Pass           | 5884.993                       | Pass           |
|                                    | 102                      | 5884.989                       | Pass           | 5884.9856                      | Pass           | 5884.9855                      | Pass           | 5884.9887                      | Pass           |

# FAP-433G\_Scanning Radio (Test Mode I)

802.11a

| Frequency Stability Versus Temp. |                          |                                |                |                                |                |                                |                |                                |                |
|----------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz    |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                    | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 50                               | 120                      | 5885.0082                      | Pass           | 5885.0064                      | Pass           | 5885.0088                      | Pass           | 5885.0077                      | Pass           |
| 40                               | 120                      | 5884.9876                      | Pass           | 5884.9888                      | Pass           | 5884.9868                      | Pass           | 5884.9868                      | Pass           |
| 30                               | 120                      | 5884.9828                      | Pass           | 5884.98                        | Pass           | 5884.9825                      | Pass           | 5884.978                       | Pass           |
| 20                               | 120                      | 5884.9898                      | Pass           | 5884.9917                      | Pass           | 5884.9901                      | Pass           | 5884.9906                      | Pass           |
| 10                               | 120                      | 5885.0089                      | Pass           | 5885.0086                      | Pass           | 5885.0079                      | Pass           | 5885.01                        | Pass           |
| 0                                | 120                      | 5885.0063                      | Pass           | 5885.0029                      | Pass           | 5885.0057                      | Pass           | 5885.0005                      | Pass           |

| Frequency Stability Versus Voltage |                          |                                |                |                                |                |                                |                |                                |                |
|------------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|----------------|
| Operating Frequency: 5885 MHz      |                          |                                |                |                                |                |                                |                |                                |                |
| TEMP.<br>(°C)                      | Power<br>Supply<br>(Vac) | 0 Minute                       |                | 2 Minutes                      |                | 5 Minutes                      |                | 10 Minutes                     |                |
|                                    |                          | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result | Measured<br>Frequency<br>(MHz) | Test<br>Result |
| 20                                 | 138                      | 5884.9979                      | Pass           | 5884.9982                      | Pass           | 5884.9999                      | Pass           | 5885.0023                      | Pass           |
|                                    | 120                      | 5884.9898                      | Pass           | 5884.9917                      | Pass           | 5884.9901                      | Pass           | 5884.9906                      | Pass           |
|                                    | 102                      | 5884.9979                      | Pass           | 5884.999                       | Pass           | 5884.9984                      | Pass           | 5885.0017                      | Pass           |

## 7.5 AC Power Conducted Emissions

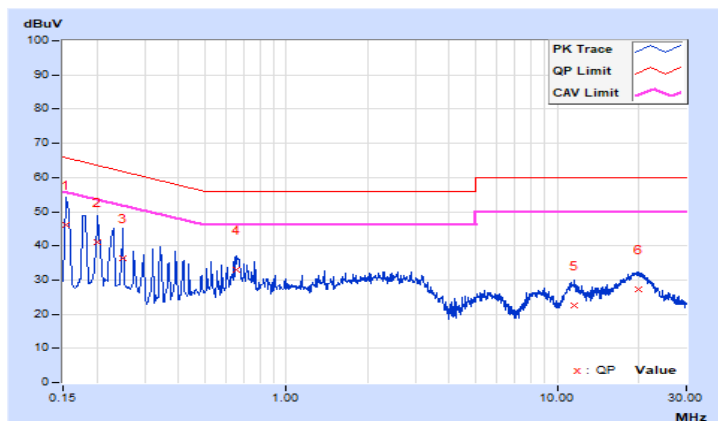
### FAP-431G\_Radio 2 (Test Mode A)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15400         | 9.68                   | 36.33                | 19.60 | 46.01                 | 29.28 | 65.78        | 55.78 | -19.77      | -26.50 |
| 2                         | 0.20200         | 9.72                   | 31.25                | 16.38 | 40.97                 | 26.10 | 63.53        | 53.53 | -22.56      | -27.43 |
| 3                         | 0.25000         | 9.74                   | 26.63                | 12.87 | 36.37                 | 22.61 | 61.76        | 51.76 | -25.39      | -29.15 |
| 4                         | 0.65800         | 9.82                   | 23.18                | 18.24 | 33.00                 | 28.06 | 56.00        | 46.00 | -23.00      | -17.94 |
| 5                         | 11.55800        | 10.08                  | 12.47                | 8.17  | 22.55                 | 18.25 | 60.00        | 50.00 | -37.45      | -31.75 |
| 6                         | 19.88200        | 10.16                  | 17.23                | 13.91 | 27.39                 | 24.07 | 60.00        | 50.00 | -32.61      | -25.93 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

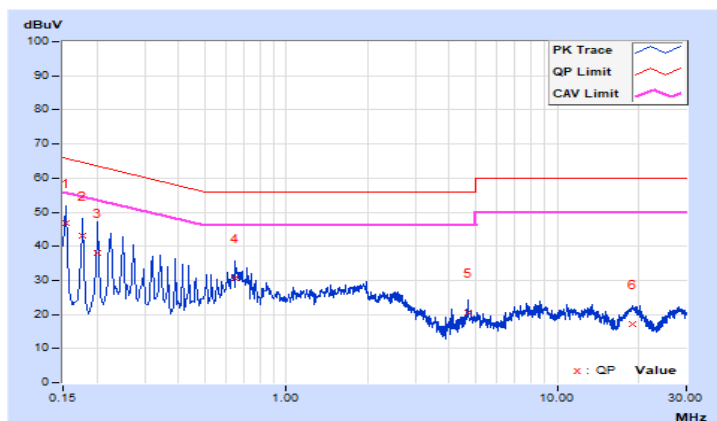


|                        |                  |                                                     |                                       |
|------------------------|------------------|-----------------------------------------------------|---------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40)  | <b>Channel</b>                                      | CH 167 : 5835 MHz                     |
| <b>Frequency Range</b> | 150 kHz ~ 30 MHz | <b>Detector Function &amp; Resolution Bandwidth</b> | Quasi-Peak (QP) / Average (AV), 9 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>                     | 25°C, 75% RH                          |
| <b>Tested By</b>       | Edison Lee       |                                                     |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 9.68                   | 37.21                | 19.43 | 46.89                 | 29.11 | 65.78        | 55.78 | -18.89      | -26.67 |
| 2                            | 0.17800         | 9.70                   | 33.41                | 15.80 | 43.11                 | 25.50 | 64.58        | 54.58 | -21.47      | -29.08 |
| 3                            | 0.20200         | 9.72                   | 28.22                | 11.51 | 37.94                 | 21.23 | 63.53        | 53.53 | -25.59      | -32.30 |
| 4                            | 0.65000         | 9.83                   | 20.73                | 14.68 | 30.56                 | 24.51 | 56.00        | 46.00 | -25.44      | -21.49 |
| 5                            | 4.67400         | 9.98                   | 10.72                | 3.21  | 20.70                 | 13.19 | 56.00        | 46.00 | -35.30      | -32.81 |
| 6                            | 18.96200        | 10.19                  | 7.03                 | 3.31  | 17.22                 | 13.50 | 60.00        | 50.00 | -42.78      | -36.50 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



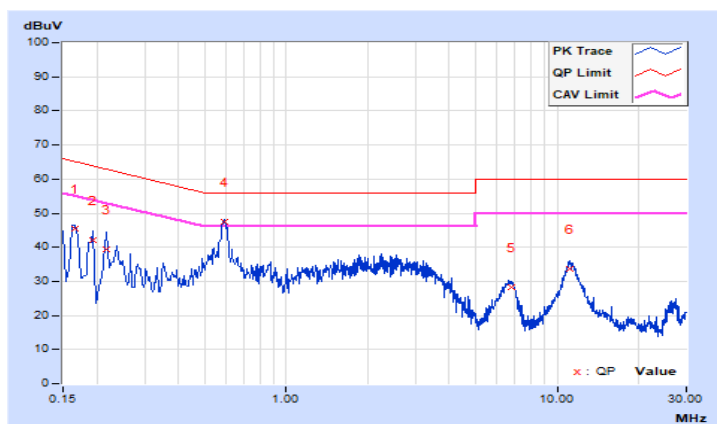
# FAP-431G\_Radio 2 (Test Mode B)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.16535         | 9.63                   | 35.91                | 19.51 | 45.54                 | 29.14 | 65.19        | 55.19 | -19.65      | -26.05 |
| 2                         | 0.19400         | 9.64                   | 32.39                | 17.17 | 42.03                 | 26.81 | 63.86        | 53.86 | -21.83      | -27.05 |
| 3                         | 0.21800         | 9.64                   | 29.67                | 15.98 | 39.31                 | 25.62 | 62.89        | 52.89 | -23.58      | -27.27 |
| 4                         | 0.58874         | 9.69                   | 37.77                | 31.28 | 47.46                 | 40.97 | 56.00        | 46.00 | -8.54       | -5.03  |
| 5                         | 6.74200         | 9.78                   | 18.66                | 15.80 | 28.44                 | 25.58 | 60.00        | 50.00 | -31.56      | -24.42 |
| 6                         | 11.19800        | 9.82                   | 23.85                | 17.55 | 33.67                 | 27.37 | 60.00        | 50.00 | -26.33      | -22.63 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

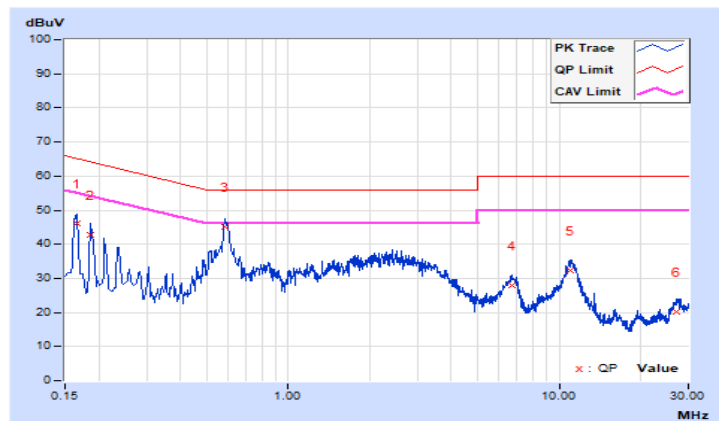


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.16579         | 9.63                   | 36.53                | 20.69 | 46.16                 | 30.32 | 65.17        | 55.17 | -19.01      | -24.85 |
| 2                            | 0.18600         | 9.63                   | 33.07                | 17.67 | 42.70                 | 27.30 | 64.21        | 54.21 | -21.51      | -26.91 |
| 3                            | 0.58600         | 9.69                   | 35.59                | 29.11 | 45.28                 | 38.80 | 56.00        | 46.00 | -10.72      | -7.20  |
| 4                            | 6.67400         | 9.78                   | 18.20                | 12.60 | 27.98                 | 22.38 | 60.00        | 50.00 | -32.02      | -27.62 |
| 5                            | 10.95000        | 9.82                   | 22.38                | 16.36 | 32.20                 | 26.18 | 60.00        | 50.00 | -27.80      | -23.82 |
| 6                            | 27.20200        | 9.87                   | 10.31                | 5.30  | 20.18                 | 15.17 | 60.00        | 50.00 | -39.82      | -34.83 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



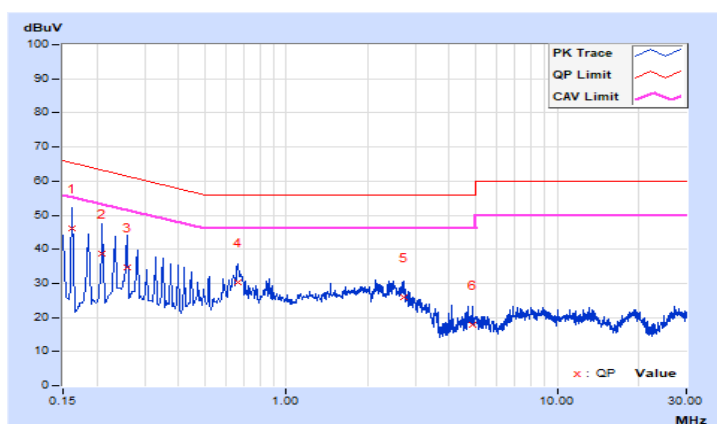
# FAP-431G\_Radio 3 (Test Mode C)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.16200         | 9.69                   | 36.31                | 18.18 | 46.00                 | 27.87 | 65.36        | 55.36 | -19.36      | -27.49 |
| 2                         | 0.21000         | 9.72                   | 29.05                | 12.23 | 38.77                 | 21.95 | 63.21        | 53.21 | -24.44      | -31.26 |
| 3                         | 0.25800         | 9.74                   | 25.10                | 12.44 | 34.84                 | 22.18 | 61.50        | 51.50 | -26.66      | -29.32 |
| 4                         | 0.66600         | 9.82                   | 20.38                | 15.67 | 30.20                 | 25.49 | 56.00        | 46.00 | -25.80      | -20.51 |
| 5                         | 2.71400         | 9.92                   | 15.98                | 11.42 | 25.90                 | 21.34 | 56.00        | 46.00 | -30.10      | -24.66 |
| 6                         | 4.88200         | 9.97                   | 8.00                 | 3.75  | 17.97                 | 13.72 | 56.00        | 46.00 | -38.03      | -32.28 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

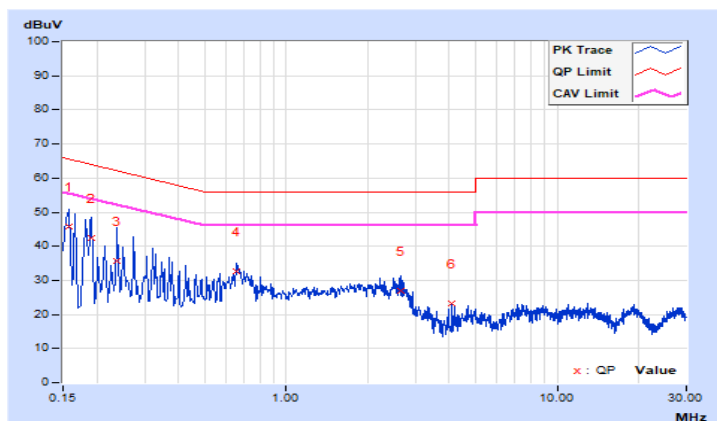


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15800         | 9.69                   | 36.23                | 17.69 | 45.92                 | 27.38 | 65.57        | 55.57 | -19.65      | -28.19 |
| 2                            | 0.19000         | 9.71                   | 32.74                | 15.42 | 42.45                 | 25.13 | 64.04        | 54.04 | -21.59      | -28.91 |
| 3                            | 0.23800         | 9.74                   | 26.08                | 13.07 | 35.82                 | 22.81 | 62.17        | 52.17 | -26.35      | -29.36 |
| 4                            | 0.65763         | 9.83                   | 22.99                | 17.60 | 32.82                 | 27.43 | 56.00        | 46.00 | -23.18      | -18.57 |
| 5                            | 2.64600         | 9.94                   | 17.04                | 12.69 | 26.98                 | 22.63 | 56.00        | 46.00 | -29.02      | -23.37 |
| 6                            | 4.06600         | 9.97                   | 13.29                | 2.47  | 23.26                 | 12.44 | 56.00        | 46.00 | -32.74      | -33.56 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



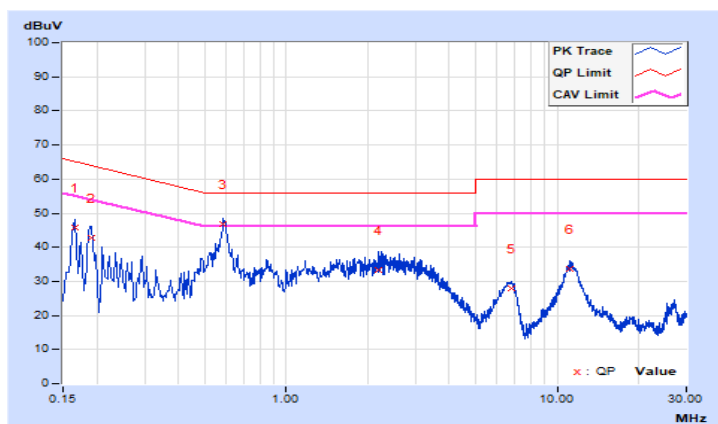
# FAP-431G\_Radio 3 (Test Mode D)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.16579         | 9.63                   | 36.16                | 20.86 | 45.79                 | 30.49 | 65.17        | 55.17 | -19.38      | -24.68 |
| 2                         | 0.19000         | 9.64                   | 33.28                | 17.51 | 42.92                 | 27.15 | 64.04        | 54.04 | -21.12      | -26.89 |
| 3                         | 0.58600         | 9.69                   | 37.06                | 30.70 | 46.75                 | 40.39 | 56.00        | 46.00 | -9.25       | -5.61  |
| 4                         | 2.18600         | 9.72                   | 23.77                | 16.16 | 33.49                 | 25.88 | 56.00        | 46.00 | -22.51      | -20.12 |
| 5                         | 6.78200         | 9.78                   | 18.32                | 14.21 | 28.10                 | 23.99 | 60.00        | 50.00 | -31.90      | -26.01 |
| 6                         | 11.14200        | 9.82                   | 23.73                | 17.21 | 33.55                 | 27.03 | 60.00        | 50.00 | -26.45      | -22.97 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

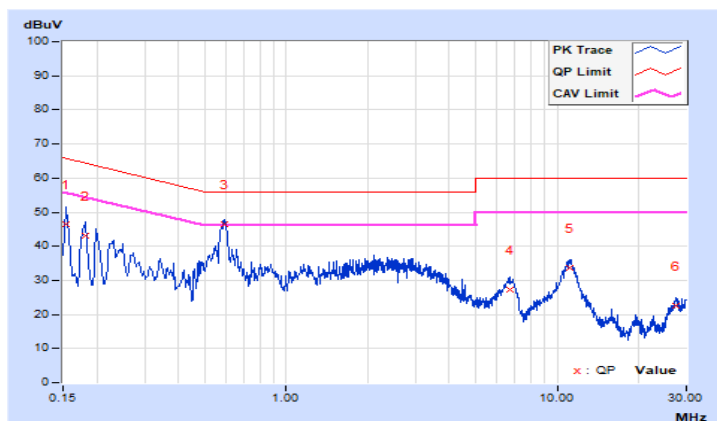


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 9.62                   | 36.79                | 20.36 | 46.41                 | 29.98 | 65.78        | 55.78 | -19.37      | -25.80 |
| 2                            | 0.18200         | 9.63                   | 33.33                | 18.26 | 42.96                 | 27.89 | 64.39        | 54.39 | -21.43      | -26.50 |
| 3                            | 0.59400         | 9.69                   | 36.86                | 30.23 | 46.55                 | 39.92 | 56.00        | 46.00 | -9.45       | -6.08  |
| 4                            | 6.71800         | 9.78                   | 17.39                | 14.44 | 27.17                 | 24.22 | 60.00        | 50.00 | -32.83      | -25.78 |
| 5                            | 11.19000        | 9.82                   | 23.75                | 17.29 | 33.57                 | 27.11 | 60.00        | 50.00 | -26.43      | -22.89 |
| 6                            | 27.41000        | 9.87                   | 12.69                | 8.14  | 22.56                 | 18.01 | 60.00        | 50.00 | -37.44      | -31.99 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



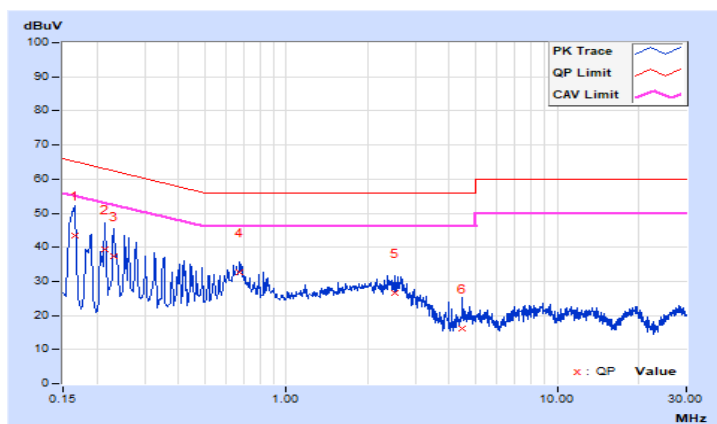
# FAP-431G\_Scanning Radio (Test Mode E)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.16579         | 9.69                   | 33.89                | 14.58 | 43.58                 | 24.27 | 65.17        | 55.17 | -21.59      | -30.90 |
| 2                         | 0.21400         | 9.73                   | 29.69                | 14.15 | 39.42                 | 23.88 | 63.05        | 53.05 | -23.63      | -29.17 |
| 3                         | 0.23000         | 9.73                   | 27.66                | 12.45 | 37.39                 | 22.18 | 62.45        | 52.45 | -25.06      | -30.27 |
| 4                         | 0.67000         | 9.82                   | 22.73                | 16.48 | 32.55                 | 26.30 | 56.00        | 46.00 | -23.45      | -19.70 |
| 5                         | 2.51400         | 9.91                   | 16.71                | 12.63 | 26.62                 | 22.54 | 56.00        | 46.00 | -29.38      | -23.46 |
| 6                         | 4.48200         | 9.96                   | 6.06                 | 1.13  | 16.02                 | 11.09 | 56.00        | 46.00 | -39.98      | -34.91 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

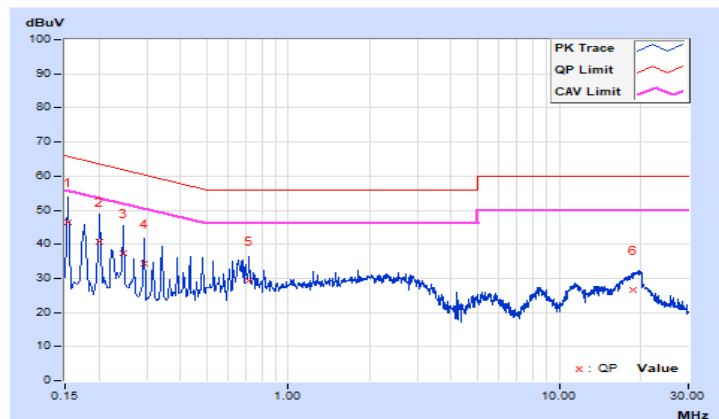


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 9.68                   | 36.64                | 20.68 | 46.32                 | 30.36 | 65.78        | 55.78 | -19.46      | -25.42 |
| 2                            | 0.20200         | 9.72                   | 31.09                | 17.18 | 40.81                 | 26.90 | 63.53        | 53.53 | -22.72      | -26.63 |
| 3                            | 0.24600         | 9.74                   | 27.80                | 14.63 | 37.54                 | 24.37 | 61.89        | 51.89 | -24.35      | -27.52 |
| 4                            | 0.29400         | 9.76                   | 24.70                | 11.66 | 34.46                 | 21.42 | 60.41        | 50.41 | -25.95      | -28.99 |
| 5                            | 0.71800         | 9.84                   | 19.37                | 14.20 | 29.21                 | 24.04 | 56.00        | 46.00 | -26.79      | -21.96 |
| 6                            | 18.67800        | 10.18                  | 16.30                | 12.53 | 26.48                 | 22.71 | 60.00        | 50.00 | -33.52      | -27.29 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



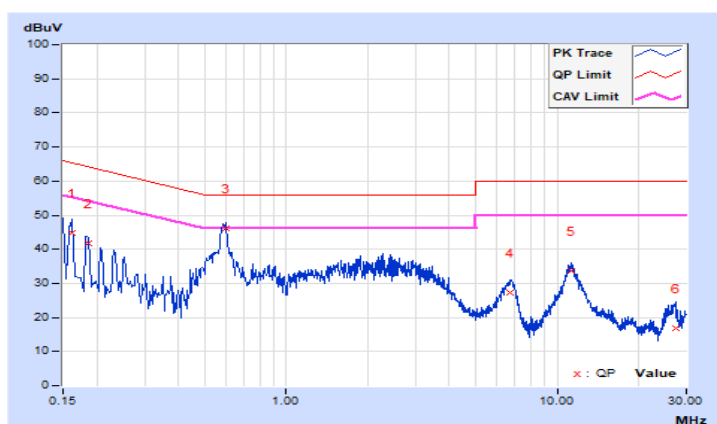
# FAP-431G\_Scanning Radio (Test Mode F)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.16200         | 9.62                   | 35.31                | 20.21 | 44.93                 | 29.83 | 65.36        | 55.36 | -20.43      | -25.53 |
| 2                         | 0.18600         | 9.63                   | 32.15                | 17.06 | 41.78                 | 26.69 | 64.21        | 54.21 | -22.43      | -27.52 |
| 3                         | 0.59800         | 9.69                   | 36.57                | 29.18 | 46.26                 | 38.87 | 56.00        | 46.00 | -9.74       | -7.13  |
| 4                         | 6.73800         | 9.78                   | 17.42                | 14.48 | 27.20                 | 24.26 | 60.00        | 50.00 | -32.80      | -25.74 |
| 5                         | 11.27800        | 9.82                   | 23.85                | 17.58 | 33.67                 | 27.40 | 60.00        | 50.00 | -26.33      | -22.60 |
| 6                         | 27.41800        | 9.88                   | 6.92                 | 1.91  | 16.80                 | 11.79 | 60.00        | 50.00 | -43.20      | -38.21 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

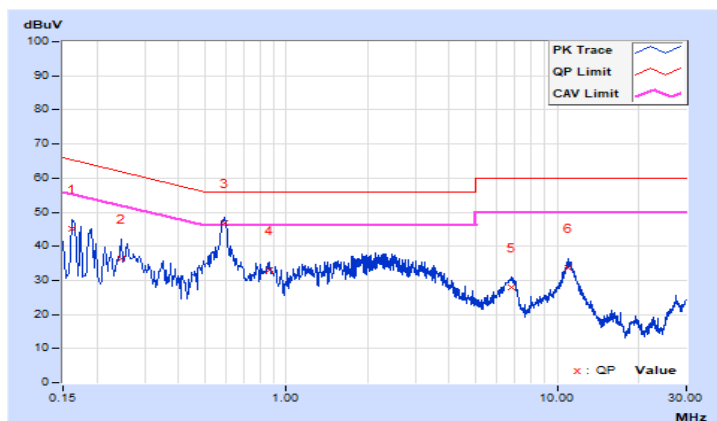


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Edison Lee       |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.16200         | 9.62                   | 35.52                | 21.37 | 45.14                 | 30.99 | 65.36        | 55.36 | -20.22      | -24.37 |
| 2                            | 0.24600         | 9.65                   | 26.59                | 20.09 | 36.24                 | 29.74 | 61.89        | 51.89 | -25.65      | -22.15 |
| 3                            | 0.59000         | 9.69                   | 37.24                | 30.91 | 46.93                 | 40.60 | 56.00        | 46.00 | -9.07       | -5.40  |
| 4                            | 0.86600         | 9.70                   | 23.13                | 16.19 | 32.83                 | 25.89 | 56.00        | 46.00 | -23.17      | -20.11 |
| 5                            | 6.76200         | 9.78                   | 18.18                | 15.34 | 27.96                 | 25.12 | 60.00        | 50.00 | -32.04      | -24.88 |
| 6                            | 11.00200        | 9.82                   | 23.80                | 17.41 | 33.62                 | 27.23 | 60.00        | 50.00 | -26.38      | -22.77 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



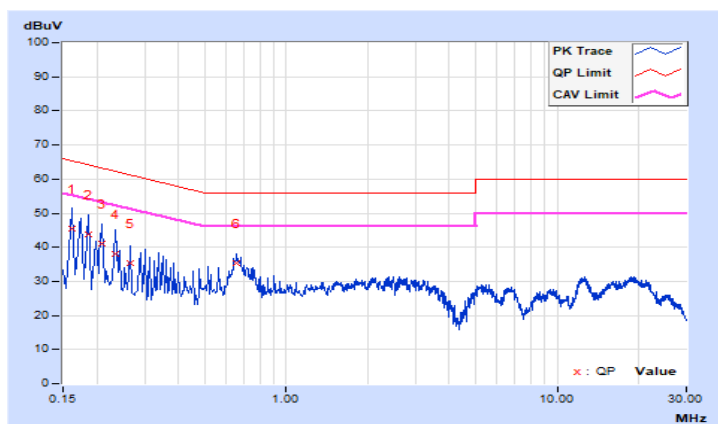
# FAP-433G\_Radio 3 (Test Mode G)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.16200         | 9.69                   | 35.71                | 18.18 | 45.40                 | 27.87 | 65.36        | 55.36 | -19.96      | -27.49 |
| 2                         | 0.18600         | 9.71                   | 34.13                | 18.20 | 43.84                 | 27.91 | 64.21        | 54.21 | -20.37      | -26.30 |
| 3                         | 0.21000         | 9.72                   | 31.24                | 16.75 | 40.96                 | 26.47 | 63.21        | 53.21 | -22.25      | -26.74 |
| 4                         | 0.23400         | 9.73                   | 28.23                | 15.73 | 37.96                 | 25.46 | 62.31        | 52.31 | -24.35      | -26.85 |
| 5                         | 0.26600         | 9.75                   | 25.59                | 14.32 | 35.34                 | 24.07 | 61.24        | 51.24 | -25.90      | -27.17 |
| 6                         | 0.65800         | 9.82                   | 25.66                | 19.90 | 35.48                 | 29.72 | 56.00        | 46.00 | -20.52      | -16.28 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

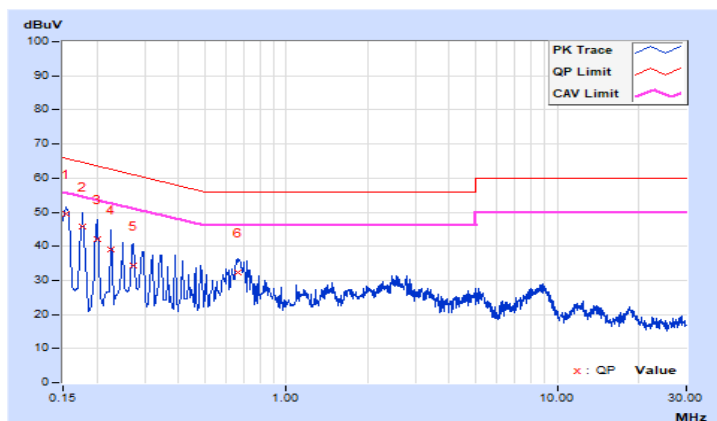


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 9.68                   | 39.72                | 22.92 | 49.40                 | 32.60 | 65.78        | 55.78 | -16.38      | -23.18 |
| 2                            | 0.17800         | 9.70                   | 36.06                | 19.22 | 45.76                 | 28.92 | 64.58        | 54.58 | -18.82      | -25.66 |
| 3                            | 0.20200         | 9.72                   | 32.40                | 16.06 | 42.12                 | 25.78 | 63.53        | 53.53 | -21.41      | -27.75 |
| 4                            | 0.22600         | 9.73                   | 29.43                | 14.65 | 39.16                 | 24.38 | 62.60        | 52.60 | -23.44      | -28.22 |
| 5                            | 0.27135         | 9.75                   | 24.71                | 12.02 | 34.46                 | 21.77 | 61.08        | 51.08 | -26.62      | -29.31 |
| 6                            | 0.66200         | 9.83                   | 22.60                | 17.61 | 32.43                 | 27.44 | 56.00        | 46.00 | -23.57      | -18.56 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



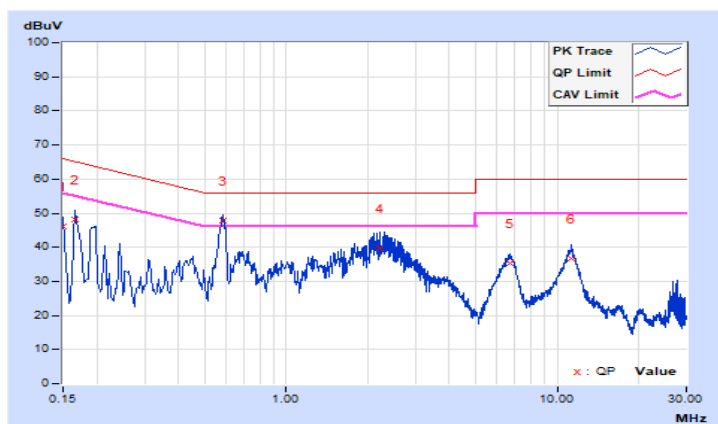
# FAP-433G\_Radio 3 (Test Mode H)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15000         | 9.68                   | 36.42                | 25.10 | 46.10                 | 34.78 | 66.00        | 56.00 | -19.90      | -21.22 |
| 2                         | 0.16600         | 9.69                   | 38.59                | 24.60 | 48.28                 | 34.29 | 65.16        | 55.16 | -16.88      | -20.87 |
| 3                         | 0.58200         | 9.81                   | 38.01                | 29.98 | 47.82                 | 39.79 | 56.00        | 46.00 | -8.18       | -6.21  |
| 4                         | 2.22600         | 9.91                   | 29.85                | 20.50 | 39.76                 | 30.41 | 56.00        | 46.00 | -16.24      | -15.59 |
| 5                         | 6.72200         | 10.00                  | 25.25                | 22.31 | 35.25                 | 32.31 | 60.00        | 50.00 | -24.75      | -17.69 |
| 6                         | 11.29800        | 10.07                  | 26.64                | 20.79 | 36.71                 | 30.86 | 60.00        | 50.00 | -23.29      | -19.14 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

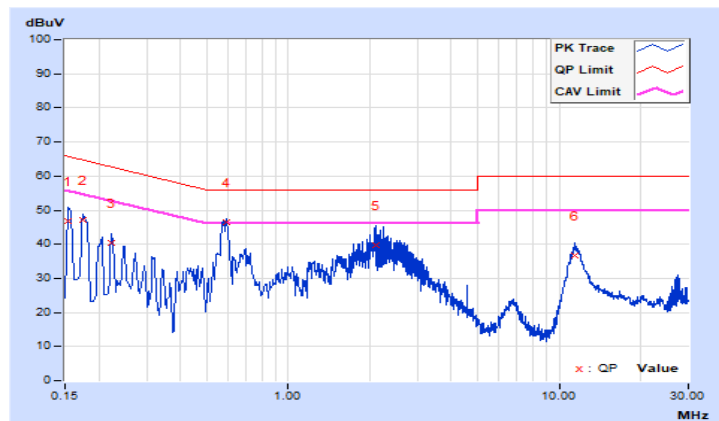


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 9.68                   | 37.05                | 19.29 | 46.73                 | 28.97 | 65.78        | 55.78 | -19.05      | -26.81 |
| 2                            | 0.17400         | 9.70                   | 37.41                | 19.52 | 47.11                 | 29.22 | 64.77        | 54.77 | -17.66      | -25.55 |
| 3                            | 0.22200         | 9.73                   | 30.56                | 15.60 | 40.29                 | 25.33 | 62.74        | 52.74 | -22.45      | -27.41 |
| 4                            | 0.59000         | 9.83                   | 36.65                | 29.68 | 46.48                 | 39.51 | 56.00        | 46.00 | -9.52       | -6.49  |
| 5                            | 2.10200         | 9.92                   | 29.67                | 20.58 | 39.59                 | 30.50 | 56.00        | 46.00 | -16.41      | -15.50 |
| 6                            | 11.44600        | 10.08                  | 26.55                | 20.06 | 36.63                 | 30.14 | 60.00        | 50.00 | -23.37      | -19.86 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



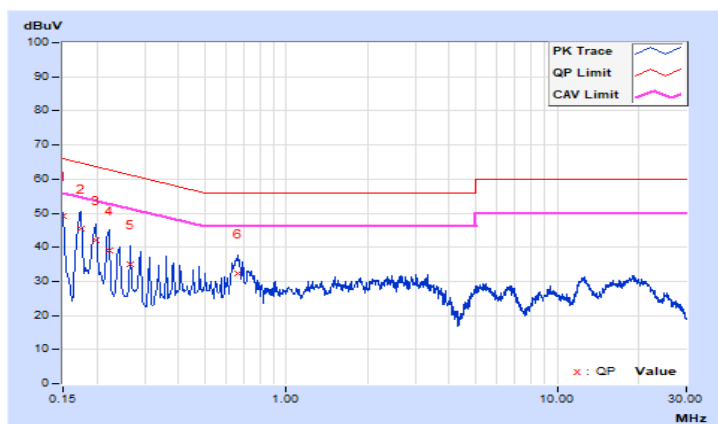
# FAP-433G\_Scanning Radio (Test Mode I)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15000         | 9.68                   | 39.53                | 24.77 | 49.21                 | 34.45 | 66.00        | 56.00 | -16.79      | -21.55 |
| 2                         | 0.17384         | 9.70                   | 35.80                | 21.39 | 45.50                 | 31.09 | 64.77        | 54.77 | -19.27      | -23.68 |
| 3                         | 0.19800         | 9.72                   | 32.29                | 18.21 | 42.01                 | 27.93 | 63.69        | 53.69 | -21.68      | -25.76 |
| 4                         | 0.22200         | 9.73                   | 29.22                | 15.55 | 38.95                 | 25.28 | 62.74        | 52.74 | -23.79      | -27.46 |
| 5                         | 0.26600         | 9.75                   | 25.27                | 14.28 | 35.02                 | 24.03 | 61.24        | 51.24 | -26.22      | -27.21 |
| 6                         | 0.66600         | 9.82                   | 22.56                | 17.64 | 32.38                 | 27.46 | 56.00        | 46.00 | -23.62      | -18.54 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

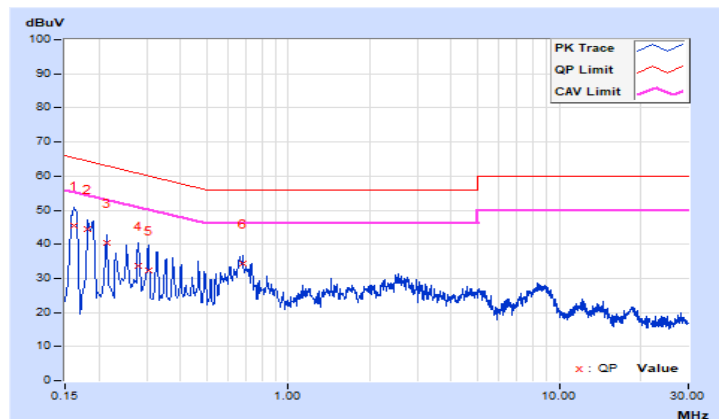


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.16190         | 9.69                   | 35.84                | 17.02 | 45.53                 | 26.71 | 65.37        | 55.37 | -19.84      | -28.66 |
| 2                            | 0.18200         | 9.71                   | 34.81                | 17.92 | 44.52                 | 27.63 | 64.39        | 54.39 | -19.87      | -26.76 |
| 3                            | 0.21400         | 9.73                   | 30.68                | 15.44 | 40.41                 | 25.17 | 63.05        | 53.05 | -22.64      | -27.88 |
| 4                            | 0.27800         | 9.76                   | 23.81                | 12.09 | 33.57                 | 21.85 | 60.88        | 50.88 | -27.31      | -29.03 |
| 5                            | 0.30550         | 9.77                   | 22.42                | 10.74 | 32.19                 | 20.51 | 60.09        | 50.09 | -27.90      | -29.58 |
| 6                            | 0.67800         | 9.83                   | 24.65                | 19.21 | 34.48                 | 29.04 | 56.00        | 46.00 | -21.52      | -16.96 |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



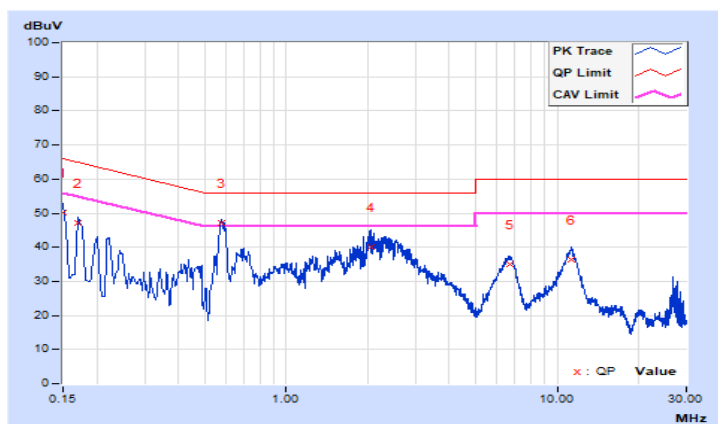
# FAP-433G\_Scanning Radio (Test Mode J)

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15000         | 9.68                   | 40.43                | 23.36 | 50.11                 | 33.04 | 66.00        | 56.00 | -15.89      | -22.96 |
| 2                         | 0.17000         | 9.70                   | 37.58                | 22.59 | 47.28                 | 32.29 | 64.96        | 54.96 | -17.68      | -22.67 |
| 3                         | 0.57400         | 9.81                   | 37.31                | 30.76 | 47.12                 | 40.57 | 56.00        | 46.00 | -8.88       | -5.43  |
| 4                         | 2.04200         | 9.90                   | 30.33                | 21.87 | 40.23                 | 31.77 | 56.00        | 46.00 | -15.77      | -14.23 |
| 5                         | 6.66600         | 10.00                  | 25.13                | 22.20 | 35.13                 | 32.20 | 60.00        | 50.00 | -24.87      | -17.80 |
| 6                         | 11.31000        | 10.07                  | 26.41                | 20.49 | 36.48                 | 30.56 | 60.00        | 50.00 | -23.52      | -19.44 |

## Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

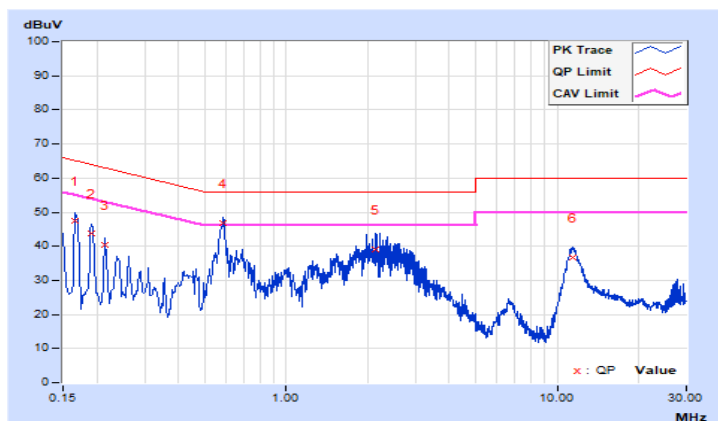


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE40)  | Channel                                  | CH 167 : 5835 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 55 Vdc           | Environmental Conditions                 | 25°C, 75% RH                          |
| Tested By       | Rex Wang         |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.16600         | 9.69                   | 37.88                | 22.40 | 47.57                 | 32.09 | 65.16        | 55.16 | -17.59      | -23.07 |
| 2                            | 0.19000         | 9.71                   | 34.13                | 18.60 | 43.84                 | 28.31 | 64.04        | 54.04 | -20.20      | -25.73 |
| 3                            | 0.21400         | 9.73                   | 30.56                | 16.24 | 40.29                 | 25.97 | 63.05        | 53.05 | -22.76      | -27.08 |
| 4                            | 0.58600         | 9.83                   | 37.03                | 29.18 | 46.86                 | 39.01 | 56.00        | 46.00 | -9.14       | -6.99  |
| 5                            | 2.13400         | 9.92                   | 29.18                | 19.70 | 39.10                 | 29.62 | 56.00        | 46.00 | -16.90      | -16.38 |
| 6                            | 11.37400        | 10.08                  | 26.65                | 20.14 | 36.73                 | 30.22 | 60.00        | 50.00 | -23.27      | -19.78 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



## 7.6 Unwanted Emissions below 1 GHz

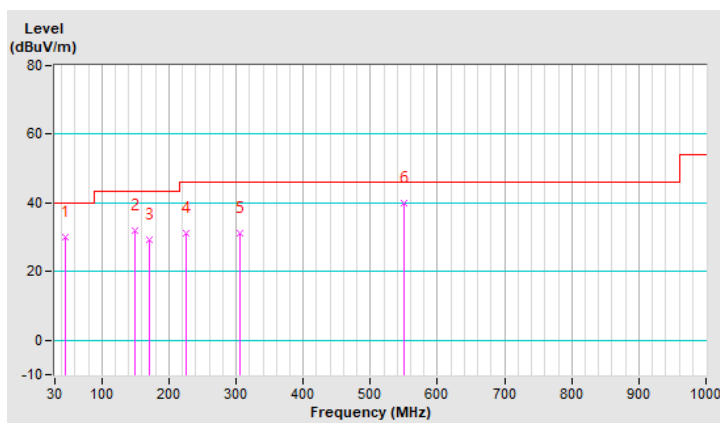
### FAP-431G\_Radio 2 (Test Mode A)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 46.49           | 30.2 QP                 | 40.0           | -9.8        | 1.99 H             | 101                  | 43.5             | -13.3                    |
| 2                                                    | 148.34          | 31.9 QP                 | 43.5           | -11.6       | 1.99 H             | 240                  | 45.2             | -13.3                    |
| 3                                                    | 171.62          | 29.2 QP                 | 43.5           | -14.3       | 1.51 H             | 208                  | 43.1             | -13.9                    |
| 4                                                    | 225.94          | 31.2 QP                 | 46.0           | -14.8       | 1.00 H             | 43                   | 47.9             | -16.7                    |
| 5                                                    | 305.48          | 31.3 QP                 | 46.0           | -14.7       | 1.51 H             | 324                  | 44.2             | -12.9                    |
| 6                                                    | 549.92          | 39.8 QP                 | 46.0           | -6.2        | 1.99 H             | 73                   | 47.1             | -7.3                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

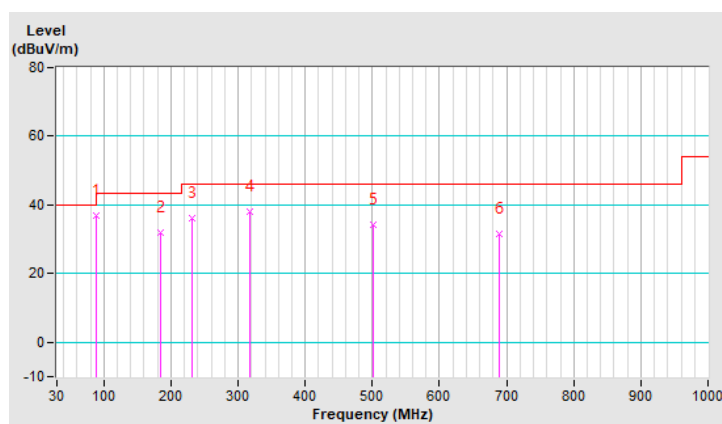


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 89.17           | 36.9 QP                 | 43.5           | -6.6        | 1.51 V             | 81                   | 56.1             | -19.2                    |
| 2                                                  | 184.23          | 31.8 QP                 | 43.5           | -11.7       | 1.51 V             | 140                  | 47.1             | -15.3                    |
| 3                                                  | 231.76          | 36.2 QP                 | 46.0           | -9.8        | 1.99 V             | 321                  | 52.0             | -15.8                    |
| 4                                                  | 318.09          | 37.9 QP                 | 46.0           | -8.1        | 1.51 V             | 140                  | 50.3             | -12.4                    |
| 5                                                  | 500.45          | 34.3 QP                 | 46.0           | -11.7       | 1.51 V             | 350                  | 42.6             | -8.3                     |
| 6                                                  | 689.60          | 31.5 QP                 | 46.0           | -14.5       | 1.51 V             | 103                  | 36.0             | -4.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



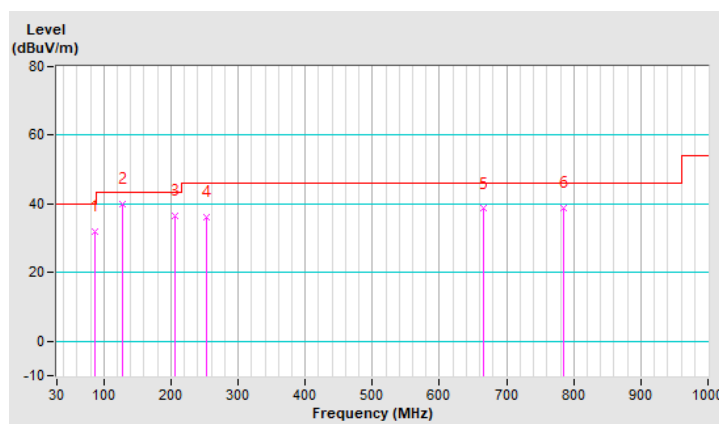
# FAP-431G\_Radio 2 (Test Mode B)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 87.64           | 31.9 QP                 | 40.0           | -8.1        | 1.99 H             | 256                  | 50.8             | -18.9                    |
| 2                                                    | 127.00          | 40.1 QP                 | 43.5           | -3.4        | 1.49 H             | 205                  | 54.9             | -14.8                    |
| 3                                                    | 205.72          | 36.6 QP                 | 43.5           | -6.9        | 1.00 H             | 258                  | 53.4             | -16.8                    |
| 4                                                    | 253.52          | 36.1 QP                 | 46.0           | -9.9        | 1.00 H             | 66                   | 50.3             | -14.2                    |
| 5                                                    | 665.42          | 38.6 QP                 | 46.0           | -7.4        | 1.00 H             | 193                  | 43.2             | -4.6                     |
| 6                                                    | 784.91          | 38.9 QP                 | 46.0           | -7.1        | 1.99 H             | 220                  | 41.4             | -2.5                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

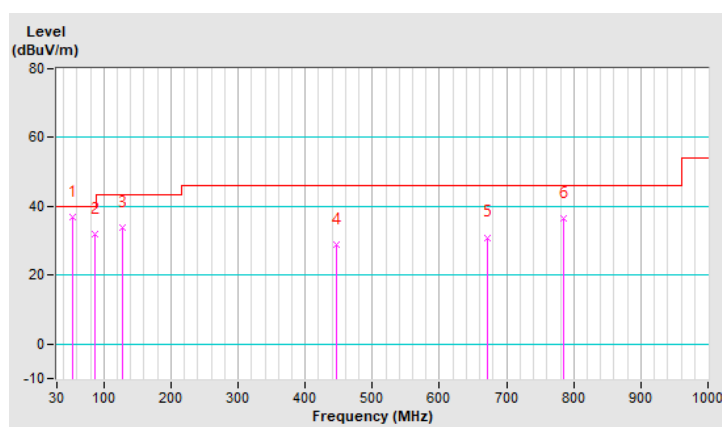


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 52.49           | 36.8 QP                 | 40.0           | -3.2        | 1.01 V             | 320                  | 50.0             | -13.2                    |
| 2                                                  | 87.64           | 31.9 QP                 | 40.0           | -8.1        | 2.00 V             | 265                  | 50.8             | -18.9                    |
| 3                                                  | 127.00          | 33.7 QP                 | 43.5           | -9.8        | 2.00 V             | 276                  | 48.5             | -14.8                    |
| 4                                                  | 446.12          | 28.8 QP                 | 46.0           | -17.2       | 1.01 V             | 315                  | 37.5             | -8.7                     |
| 5                                                  | 671.04          | 31.0 QP                 | 46.0           | -15.0       | 1.51 V             | 189                  | 35.6             | -4.6                     |
| 6                                                  | 784.91          | 36.7 QP                 | 46.0           | -9.3        | 1.51 V             | 2                    | 39.2             | -2.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



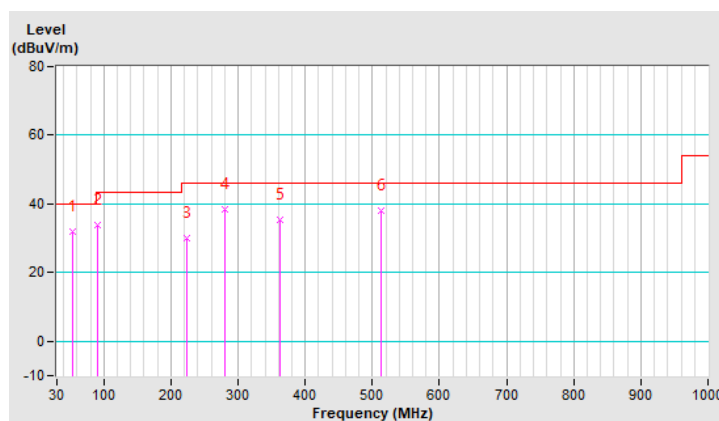
### FAP-431G\_Radio 3 (Test Mode C)

|                        |                 |                                          |                   |
|------------------------|-----------------|------------------------------------------|-------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 167 : 5835 MHz |
| <b>Frequency Range</b> | 9 kHz ~ 1 GHz   | <b>Detector Function &amp; Bandwidth</b> | (QP) RB = 120kHz  |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 72% RH      |
| <b>Tested By</b>       | Noah Chang      |                                          |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 54.25           | 31.9 QP                 | 40.0           | -8.1        | 1.99 H             | 86                   | 45.4             | -13.5                    |
| 2                                                    | 91.11           | 33.8 QP                 | 43.5           | -9.7        | 1.99 H             | 92                   | 52.9             | -19.1                    |
| 3                                                    | 224.00          | 30.1 QP                 | 46.0           | -15.9       | 1.51 H             | 237                  | 47.0             | -16.9                    |
| 4                                                    | 280.26          | 38.5 QP                 | 46.0           | -7.5        | 1.99 H             | 82                   | 51.9             | -13.4                    |
| 5                                                    | 361.74          | 35.5 QP                 | 46.0           | -10.5       | 1.00 H             | 82                   | 47.0             | -11.5                    |
| 6                                                    | 513.06          | 38.0 QP                 | 46.0           | -8.0        | 1.99 H             | 87                   | 45.9             | -7.9                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

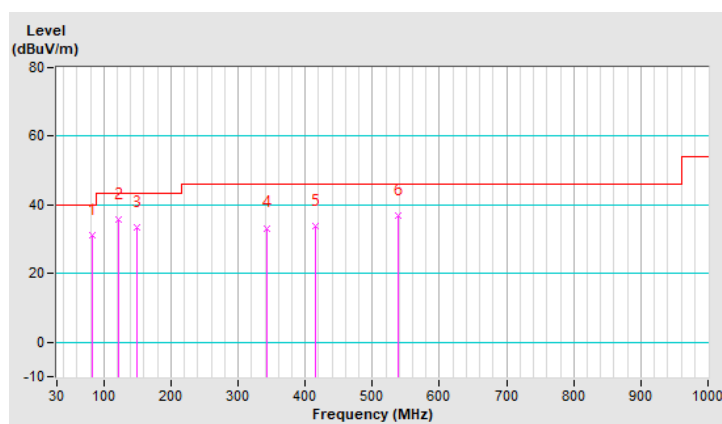


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 83.35           | 31.3 QP                 | 40.0           | -8.7        | 1.51 V             | 98                   | 50.2             | -18.9                    |
| 2                                                  | 121.18          | 35.7 QP                 | 43.5           | -7.8        | 1.51 V             | 18                   | 51.0             | -15.3                    |
| 3                                                  | 148.34          | 33.5 QP                 | 43.5           | -10.0       | 1.00 V             | 18                   | 46.8             | -13.3                    |
| 4                                                  | 343.31          | 33.3 QP                 | 46.0           | -12.7       | 1.51 V             | 87                   | 45.2             | -11.9                    |
| 5                                                  | 415.09          | 34.0 QP                 | 46.0           | -12.0       | 2.00 V             | 82                   | 44.1             | -10.1                    |
| 6                                                  | 539.25          | 36.8 QP                 | 46.0           | -9.2        | 1.00 V             | 82                   | 44.4             | -7.6                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



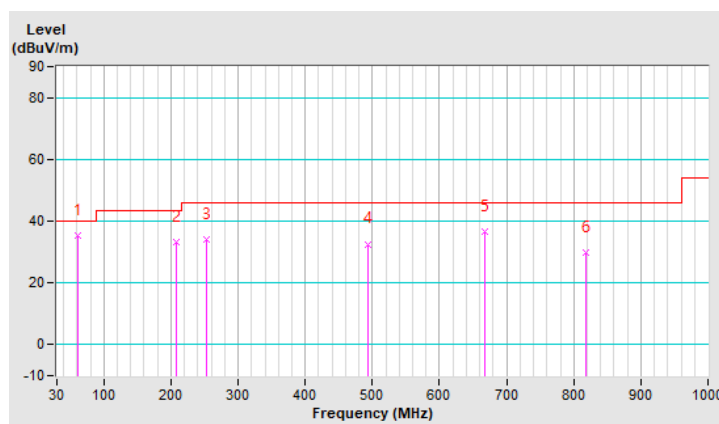
# FAP-431G\_Radio 3 (Test Mode D)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 60.93           | 35.3 QP                 | 40.0           | -4.7        | 1.49 H             | 352                  | 49.3             | -14.0                    |
| 2                                                    | 207.13          | 33.2 QP                 | 43.5           | -10.3       | 1.49 H             | 306                  | 50.0             | -16.8                    |
| 3                                                    | 253.52          | 34.1 QP                 | 46.0           | -11.9       | 1.49 H             | 74                   | 48.3             | -14.2                    |
| 4                                                    | 493.91          | 32.6 QP                 | 46.0           | -13.4       | 1.49 H             | 295                  | 40.5             | -7.9                     |
| 5                                                    | 666.83          | 36.4 QP                 | 46.0           | -9.6        | 1.00 H             | 182                  | 41.0             | -4.6                     |
| 6                                                    | 818.65          | 29.7 QP                 | 46.0           | -16.3       | 1.49 H             | 2                    | 31.8             | -2.1                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

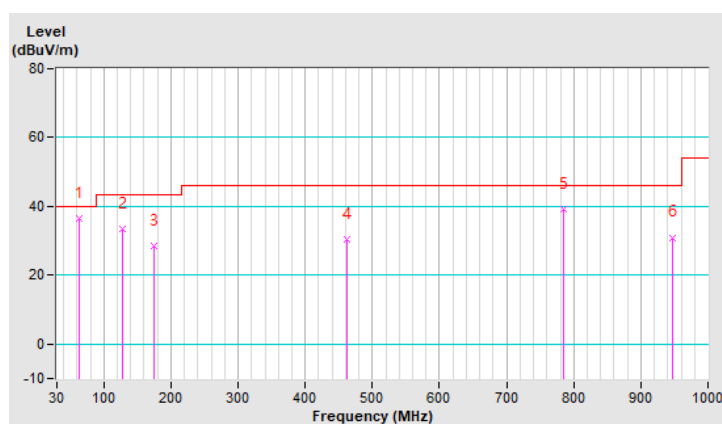


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 62.33           | 36.5 QP                 | 40.0           | -3.5        | 1.01 V             | 128                  | 50.8             | -14.3                    |
| 2                                                  | 127.00          | 33.3 QP                 | 43.5           | -10.2       | 2.00 V             | 220                  | 48.1             | -14.8                    |
| 3                                                  | 174.80          | 28.7 QP                 | 43.5           | -14.8       | 1.01 V             | 285                  | 42.7             | -14.0                    |
| 4                                                  | 461.58          | 30.6 QP                 | 46.0           | -15.4       | 1.01 V             | 323                  | 39.0             | -8.4                     |
| 5                                                  | 784.91          | 39.1 QP                 | 46.0           | -6.9        | 1.01 V             | 112                  | 41.6             | -2.5                     |
| 6                                                  | 947.99          | 31.0 QP                 | 46.0           | -15.0       | 1.50 V             | 111                  | 31.5             | -0.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



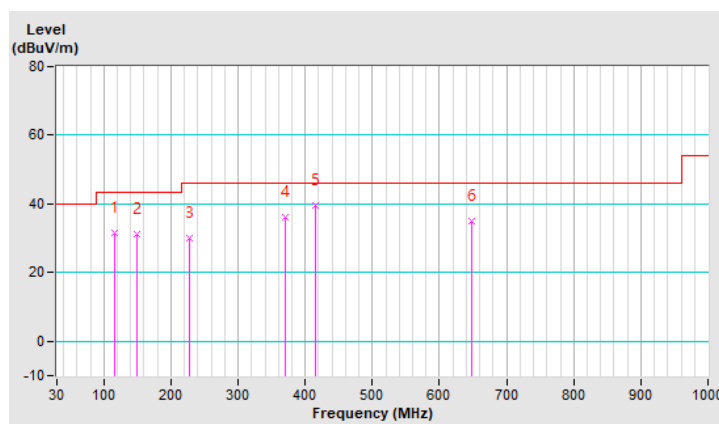
# FAP-431G\_Scanning Radio (Test Mode E)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 116.33          | 31.4 QP                 | 43.5           | -12.1       | 1.99 H             | 318                  | 47.1             | -15.7                    |
| 2                                                    | 148.34          | 31.2 QP                 | 43.5           | -12.3       | 1.51 H             | 230                  | 44.5             | -13.3                    |
| 3                                                    | 226.91          | 30.0 QP                 | 46.0           | -16.0       | 1.00 H             | 78                   | 46.5             | -16.5                    |
| 4                                                    | 370.47          | 36.1 QP                 | 46.0           | -9.9        | 1.51 H             | 90                   | 47.2             | -11.1                    |
| 5                                                    | 415.09          | 39.4 QP                 | 46.0           | -6.6        | 1.51 H             | 96                   | 49.5             | -10.1                    |
| 6                                                    | 647.89          | 34.9 QP                 | 46.0           | -11.1       | 1.51 H             | 93                   | 40.0             | -5.1                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

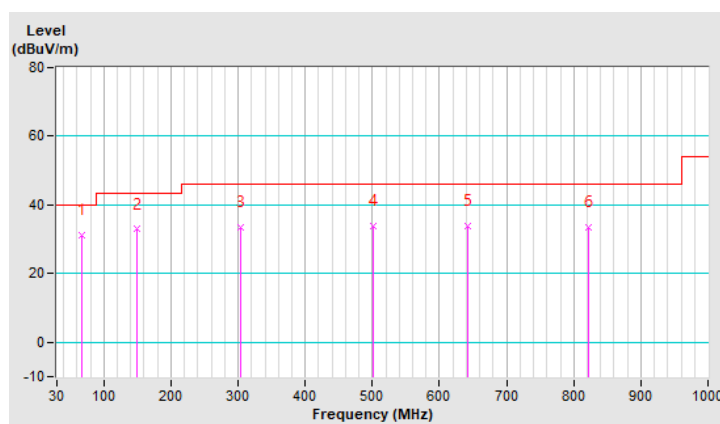


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 66.86           | 31.1 QP                 | 40.0           | -8.9        | 1.51 V             | 18                   | 46.0             | -14.9                    |
| 2                                                  | 148.34          | 32.9 QP                 | 43.5           | -10.6       | 1.99 V             | 18                   | 46.2             | -13.3                    |
| 3                                                  | 303.54          | 33.3 QP                 | 46.0           | -12.7       | 1.00 V             | 303                  | 46.2             | -12.9                    |
| 4                                                  | 500.45          | 33.8 QP                 | 46.0           | -12.2       | 1.51 V             | 4                    | 42.1             | -8.3                     |
| 5                                                  | 643.04          | 34.0 QP                 | 46.0           | -12.0       | 1.51 V             | 307                  | 39.1             | -5.1                     |
| 6                                                  | 821.52          | 33.4 QP                 | 46.0           | -12.6       | 1.99 V             | 223                  | 35.8             | -2.4                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



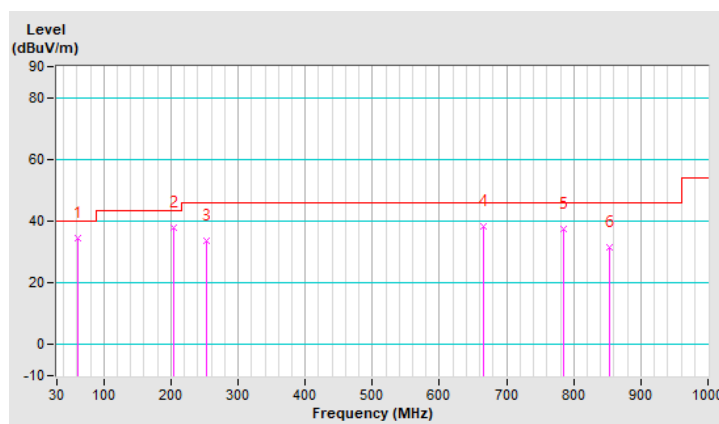
# FAP-431G\_Scanning Radio (Test Mode F)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 60.93           | 34.5 QP                 | 40.0           | -5.5        | 2.00 H             | 345                  | 48.5             | -14.0                    |
| 2                                                    | 204.32          | 37.8 QP                 | 43.5           | -5.7        | 1.00 H             | 301                  | 54.6             | -16.8                    |
| 3                                                    | 253.52          | 33.8 QP                 | 46.0           | -12.2       | 1.00 H             | 71                   | 48.0             | -14.2                    |
| 4                                                    | 665.42          | 38.2 QP                 | 46.0           | -7.8        | 1.00 H             | 182                  | 42.8             | -4.6                     |
| 5                                                    | 784.91          | 37.5 QP                 | 46.0           | -8.5        | 1.00 H             | 258                  | 40.0             | -2.5                     |
| 6                                                    | 853.80          | 31.7 QP                 | 46.0           | -14.3       | 1.49 H             | 128                  | 33.4             | -1.7                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

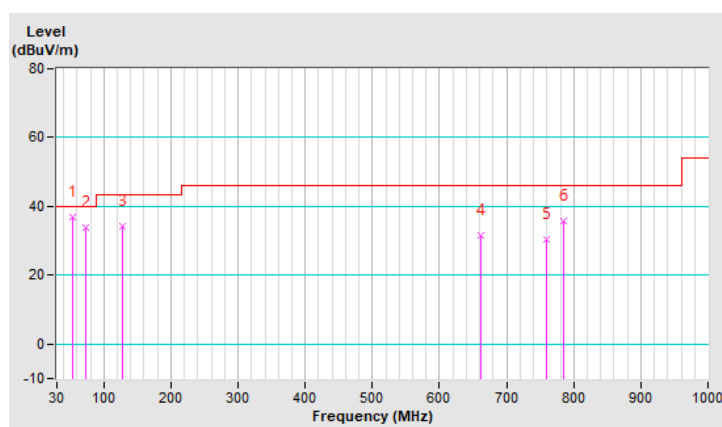


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 23°C, 72% RH      |
| Tested By       | Noah Chang      |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 52.49           | 36.8 QP                 | 40.0           | -3.2        | 1.50 V             | 341                  | 50.0             | -13.2                    |
| 2                                                  | 72.17           | 34.0 QP                 | 40.0           | -6.0        | 1.01 V             | 274                  | 50.1             | -16.1                    |
| 3                                                  | 127.00          | 34.2 QP                 | 43.5           | -9.3        | 1.01 V             | 176                  | 49.0             | -14.8                    |
| 4                                                  | 662.61          | 31.4 QP                 | 46.0           | -14.6       | 1.50 V             | 169                  | 36.0             | -4.6                     |
| 5                                                  | 759.61          | 30.5 QP                 | 46.0           | -15.5       | 1.50 V             | 121                  | 33.6             | -3.1                     |
| 6                                                  | 784.91          | 35.9 QP                 | 46.0           | -10.1       | 1.01 V             | 2                    | 38.4             | -2.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



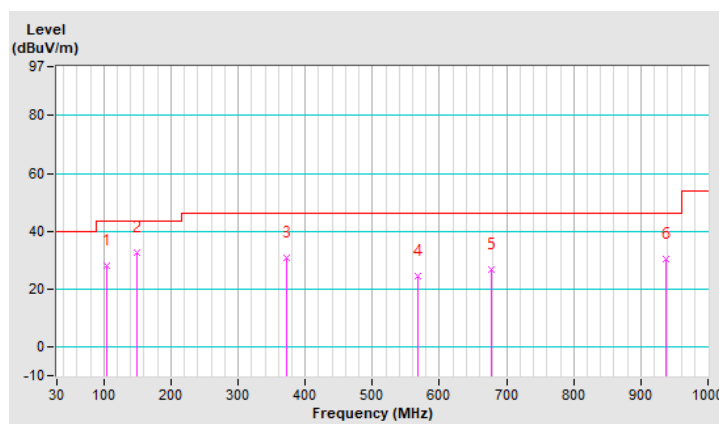
# FAP-433G\_Radio 3 (Test Mode G)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25°C, 77% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 103.72          | 28.0 QP                 | 43.5           | -15.5       | 1.50 H             | 88                   | 45.0             | -17.0                    |
| 2                                                    | 148.34          | 32.5 QP                 | 43.5           | -11.0       | 1.50 H             | 108                  | 45.7             | -13.2                    |
| 3                                                    | 371.44          | 30.7 QP                 | 46.0           | -15.3       | 1.01 H             | 319                  | 41.3             | -10.6                    |
| 4                                                    | 568.35          | 24.5 QP                 | 46.0           | -21.5       | 1.01 H             | 250                  | 31.1             | -6.6                     |
| 5                                                    | 676.99          | 26.7 QP                 | 46.0           | -19.3       | 1.50 H             | 81                   | 31.0             | -4.3                     |
| 6                                                    | 936.95          | 30.4 QP                 | 46.0           | -15.6       | 1.01 H             | 326                  | 31.0             | -0.6                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

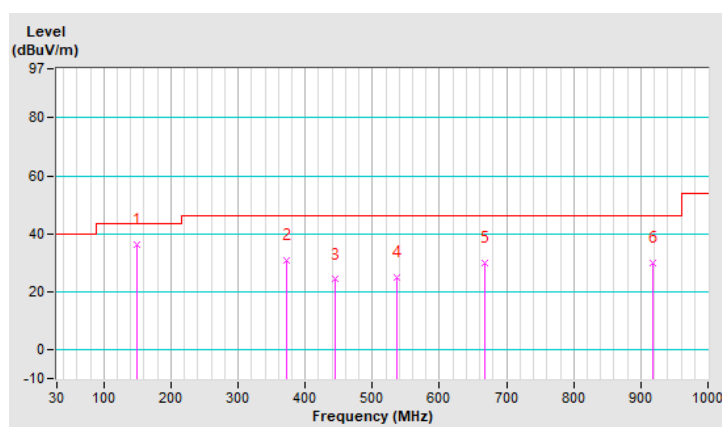


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25°C, 77% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 148.34          | 36.1 QP                 | 43.5           | -7.4        | 1.00 V             | 273                  | 49.3             | -13.2                    |
| 2                                                  | 371.44          | 30.7 QP                 | 46.0           | -15.3       | 1.00 V             | 91                   | 41.3             | -10.6                    |
| 3                                                  | 445.16          | 24.2 QP                 | 46.0           | -21.8       | 1.00 V             | 182                  | 32.9             | -8.7                     |
| 4                                                  | 536.34          | 25.0 QP                 | 46.0           | -21.0       | 1.00 V             | 286                  | 32.3             | -7.3                     |
| 5                                                  | 668.26          | 29.7 QP                 | 46.0           | -16.3       | 1.00 V             | 2                    | 34.2             | -4.5                     |
| 6                                                  | 918.52          | 29.8 QP                 | 46.0           | -16.2       | 1.49 V             | 162                  | 30.8             | -1.0                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



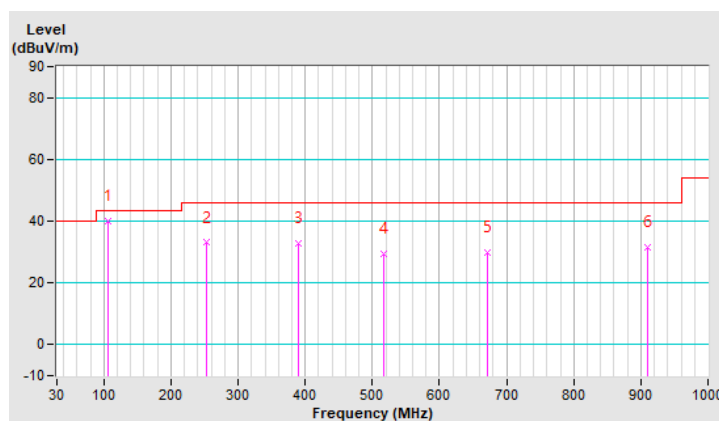
# FAP-433G\_Radio 3 (Test Mode H)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 24°C, 65% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 106.63          | 39.8 QP                 | 43.5           | -3.7        | 1.99 H             | 95                   | 56.4             | -16.6                    |
| 2                                                    | 253.10          | 33.0 QP                 | 46.0           | -13.0       | 1.00 H             | 282                  | 47.1             | -14.1                    |
| 3                                                    | 388.90          | 32.7 QP                 | 46.0           | -13.3       | 1.50 H             | 171                  | 42.9             | -10.2                    |
| 4                                                    | 517.91          | 29.4 QP                 | 46.0           | -16.6       | 1.99 H             | 33                   | 36.9             | -7.5                     |
| 5                                                    | 672.14          | 29.9 QP                 | 46.0           | -16.1       | 1.99 H             | 225                  | 34.4             | -4.5                     |
| 6                                                    | 909.79          | 31.6 QP                 | 46.0           | -14.4       | 1.50 H             | 216                  | 32.8             | -1.2                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

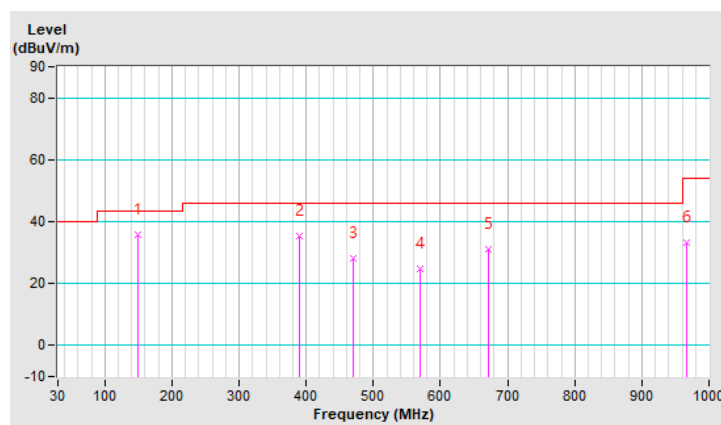


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 24°C, 65% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 148.34          | 35.7 QP                 | 43.5           | -7.8        | 1.00 V             | 154                  | 48.9             | -13.2                    |
| 2                                                  | 388.90          | 35.5 QP                 | 46.0           | -10.5       | 1.00 V             | 22                   | 45.7             | -10.2                    |
| 3                                                  | 469.41          | 28.0 QP                 | 46.0           | -18.0       | 1.00 V             | 184                  | 36.2             | -8.2                     |
| 4                                                  | 570.29          | 24.9 QP                 | 46.0           | -21.1       | 1.49 V             | 42                   | 31.4             | -6.5                     |
| 5                                                  | 672.14          | 31.1 QP                 | 46.0           | -14.9       | 1.49 V             | 178                  | 35.6             | -4.5                     |
| 6                                                  | 967.02          | 33.3 QP                 | 54.0           | -20.7       | 1.00 V             | 115                  | 33.6             | -0.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



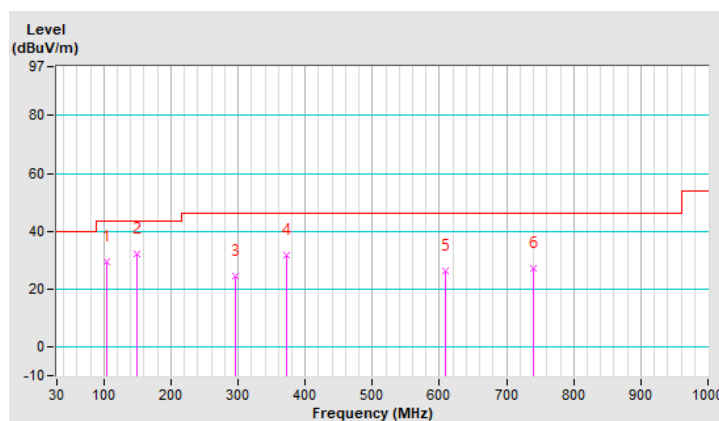
# FAP-433G\_Scanning Radio (Test Mode I)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25°C, 77% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 103.72          | 29.4 QP                 | 43.5           | -14.1       | 1.50 H             | 116                  | 46.4             | -17.0                    |
| 2                                                    | 148.34          | 32.0 QP                 | 43.5           | -11.5       | 1.50 H             | 100                  | 45.2             | -13.2                    |
| 3                                                    | 296.75          | 24.3 QP                 | 46.0           | -21.7       | 1.01 H             | 18                   | 36.8             | -12.5                    |
| 4                                                    | 371.44          | 31.5 QP                 | 46.0           | -14.5       | 1.01 H             | 192                  | 42.1             | -10.6                    |
| 5                                                    | 609.09          | 26.4 QP                 | 46.0           | -19.6       | 1.01 H             | 18                   | 31.6             | -5.2                     |
| 6                                                    | 739.07          | 27.1 QP                 | 46.0           | -18.9       | 1.50 H             | 133                  | 30.5             | -3.4                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

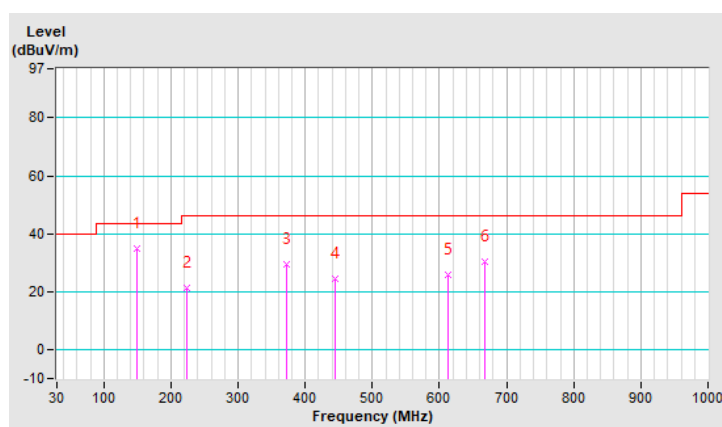


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25°C, 77% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 148.34          | 35.1 QP                 | 43.5           | -8.4        | 1.00 V             | 291                  | 48.3             | -13.2                    |
| 2                                                  | 223.03          | 21.2 QP                 | 46.0           | -24.8       | 1.00 V             | 300                  | 37.6             | -16.4                    |
| 3                                                  | 371.44          | 29.6 QP                 | 46.0           | -16.4       | 1.00 V             | 95                   | 40.2             | -10.6                    |
| 4                                                  | 445.16          | 24.6 QP                 | 46.0           | -21.4       | 1.00 V             | 158                  | 33.3             | -8.7                     |
| 5                                                  | 612.00          | 25.8 QP                 | 46.0           | -20.2       | 1.49 V             | 110                  | 31.0             | -5.2                     |
| 6                                                  | 668.26          | 30.4 QP                 | 46.0           | -15.6       | 1.00 V             | 2                    | 34.9             | -4.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



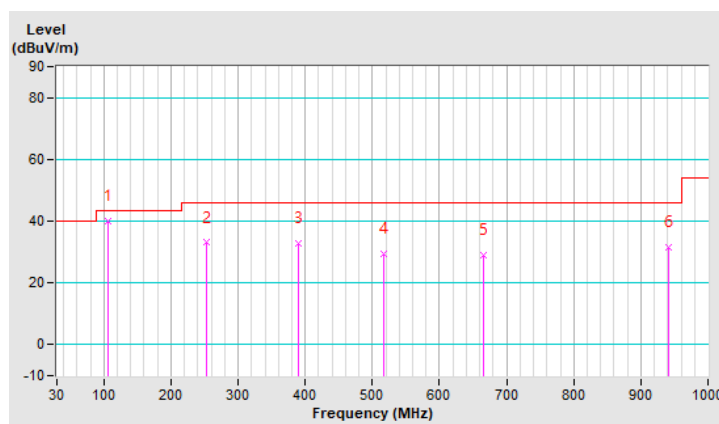
# FAP-433G\_Scanning Radio (Test Mode J)

|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 24°C, 65% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 106.63          | 39.8 QP                 | 43.5           | -3.7        | 1.99 H             | 95                   | 56.4             | -16.6                    |
| 2                                                    | 253.10          | 33.0 QP                 | 46.0           | -13.0       | 1.00 H             | 282                  | 47.1             | -14.1                    |
| 3                                                    | 388.90          | 32.7 QP                 | 46.0           | -13.3       | 1.50 H             | 171                  | 42.9             | -10.2                    |
| 4                                                    | 517.91          | 29.4 QP                 | 46.0           | -16.6       | 1.99 H             | 33                   | 36.9             | -7.5                     |
| 5                                                    | 665.35          | 29.0 QP                 | 46.0           | -17.0       | 1.99 H             | 210                  | 33.5             | -4.5                     |
| 6                                                    | 940.83          | 31.6 QP                 | 46.0           | -14.4       | 1.00 H             | 70                   | 32.2             | -0.6                     |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

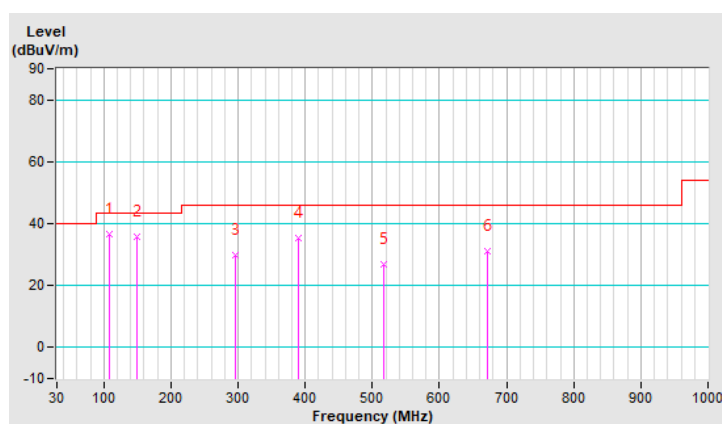


|                 |                 |                               |                   |
|-----------------|-----------------|-------------------------------|-------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 167 : 5835 MHz |
| Frequency Range | 9 kHz ~ 1 GHz   | Detector Function & Bandwidth | (QP) RB = 120kHz  |
| Input Power     | 55 Vdc          | Environmental Conditions      | 24°C, 65% RH      |
| Tested By       | Randy Wu        |                               |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 107.60          | 36.5 QP                 | 43.5           | -7.0        | 1.00 V             | 164                  | 52.9             | -16.4                    |
| 2                                                  | 148.34          | 35.7 QP                 | 43.5           | -7.8        | 1.00 V             | 154                  | 48.9             | -13.2                    |
| 3                                                  | 296.75          | 30.0 QP                 | 46.0           | -16.0       | 1.00 V             | 147                  | 42.5             | -12.5                    |
| 4                                                  | 388.90          | 35.5 QP                 | 46.0           | -10.5       | 1.00 V             | 22                   | 45.7             | -10.2                    |
| 5                                                  | 517.91          | 26.9 QP                 | 46.0           | -19.1       | 1.49 V             | 291                  | 34.4             | -7.5                     |
| 6                                                  | 672.14          | 31.1 QP                 | 46.0           | -14.9       | 1.49 V             | 178                  | 35.6             | -4.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 7.7 Unwanted Emissions above 1 GHz

### FAP-431G\_Radio 2 (Test Mode A)

|                 |                |                               |                                                            |
|-----------------|----------------|-------------------------------|------------------------------------------------------------|
| RF Mode         | 802.11a        | Channel                       | CH 169 : 5845 MHz                                          |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| Input Power     | 120 Vac, 60 Hz | Environmental Conditions      | 23°C, 68% RH                                               |
| Tested By       | Wade Huang     |                               |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5622.68        | 58.8 PK                 | 68.2           | -9.4        | 2.02 H             | 317                  | 55.8             | 3.0                      |
| 2                                                    | *5845.00        | 126.1 PK                |                |             | 2.02 H             | 317                  | 84.2             | 41.9                     |
| 3                                                    | *5845.00        | 118.5 AV                |                |             | 2.02 H             | 317                  | 76.6             | 41.9                     |
| 4                                                    | #5928.57        | 57.6 PK                 | 88.2           | -30.6       | 2.02 H             | 317                  | 53.8             | 3.8                      |
| 5                                                    | 11690.00        | 58.0 PK                 | 74.0           | -16.0       | 1.77 H             | 141                  | 48.7             | 9.3                      |
| 6                                                    | 11690.00        | 47.8 AV                 | 54.0           | -6.2        | 1.77 H             | 141                  | 38.5             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5646.43        | 57.9 PK                 | 68.2           | -10.3       | 3.31 V             | 40                   | 54.9             | 3.0                      |
| 2                                                    | *5845.00        | 121.8 PK                |                |             | 3.31 V             | 40                   | 79.9             | 41.9                     |
| 3                                                    | *5845.00        | 114.5 AV                |                |             | 3.31 V             | 40                   | 72.6             | 41.9                     |
| 4                                                    | #5937.60        | 57.3 PK                 | 88.2           | -30.9       | 3.31 V             | 40                   | 53.5             | 3.8                      |
| 5                                                    | 11690.00        | 57.4 PK                 | 74.0           | -16.6       | 1.44 V             | 61                   | 48.1             | 9.3                      |
| 6                                                    | 11690.00        | 48.5 AV                 | 54.0           | -5.5        | 1.44 V             | 61                   | 39.2             | 9.3                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5584.67        | 59.4 PK                 | 68.2           | -8.8        | 2.00 H             | 50                   | 56.8             | 2.6                      |
| 2                                                    | *5865.00        | 125.4 PK                |                |             | 2.00 H             | 50                   | 83.4             | 42.0                     |
| 3                                                    | *5865.00        | 117.9 AV                |                |             | 2.00 H             | 50                   | 75.9             | 42.0                     |
| 4                                                    | #5937.12        | 58.2 PK                 | 88.2           | -30.0       | 2.00 H             | 50                   | 54.4             | 3.8                      |
| 5                                                    | 11730.00        | 57.5 PK                 | 74.0           | -16.5       | 2.27 H             | 66                   | 48.2             | 9.3                      |
| 6                                                    | 11730.00        | 47.8 AV                 | 54.0           | -6.2        | 2.27 H             | 66                   | 38.5             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5583.73        | 57.7 PK                 | 68.2           | -10.5       | 3.89 V             | 29                   | 55.1             | 2.6                      |
| 2                                                    | *5865.00        | 123.6 PK                |                |             | 3.89 V             | 29                   | 81.6             | 42.0                     |
| 3                                                    | *5865.00        | 115.9 AV                |                |             | 3.89 V             | 29                   | 73.9             | 42.0                     |
| 4                                                    | #5936.65        | 57.6 PK                 | 88.2           | -30.6       | 3.89 V             | 29                   | 53.8             | 3.8                      |
| 5                                                    | 11730.00        | 57.4 PK                 | 74.0           | -16.6       | 2.01 V             | 58                   | 48.1             | 9.3                      |
| 6                                                    | 11730.00        | 47.6 AV                 | 54.0           | -6.4        | 2.01 V             | 58                   | 38.3             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5557.60        | 59.2 PK                 | 68.2           | -9.0        | 2.85 H             | 305                  | 56.7             | 2.5                      |
| 2                                                    | *5885.00        | 123.5 PK                |                |             | 2.85 H             | 305                  | 81.6             | 41.9                     |
| 3                                                    | *5885.00        | 116.1 AV                |                |             | 2.85 H             | 305                  | 74.2             | 41.9                     |
| 4                                                    | #5926.68        | 60.7 PK                 | 88.2           | -27.5       | 2.85 H             | 305                  | 56.9             | 3.8                      |
| 5                                                    | 11770.00        | 56.9 PK                 | 74.0           | -17.1       | 2.26 H             | 74                   | 47.8             | 9.1                      |
| 6                                                    | 11770.00        | 48.1 AV                 | 54.0           | -5.9        | 2.26 H             | 74                   | 39.0             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5638.82        | 57.2 PK                 | 68.2           | -11.0       | 3.66 V             | 24                   | 54.2             | 3.0                      |
| 2                                                    | *5885.00        | 122.0 PK                |                |             | 3.66 V             | 24                   | 80.1             | 41.9                     |
| 3                                                    | *5885.00        | 113.8 AV                |                |             | 3.66 V             | 24                   | 71.9             | 41.9                     |
| 4                                                    | #5927.62        | 59.9 PK                 | 88.2           | -28.3       | 3.66 V             | 24                   | 56.1             | 3.8                      |
| 5                                                    | 11730.00        | 56.9 PK                 | 74.0           | -17.1       | 1.99 V             | 55                   | 47.6             | 9.3                      |
| 6                                                    | 11730.00        | 47.8 AV                 | 54.0           | -6.2        | 1.99 V             | 55                   | 38.5             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5599.40        | 58.9 PK                 | 68.2           | -9.3        | 2.51 H             | 314                  | 56.1             | 2.8                      |
| 2                                                    | *5845.00        | 126.3 PK                |                |             | 2.51 H             | 314                  | 84.4             | 41.9                     |
| 3                                                    | *5845.00        | 118.4 AV                |                |             | 2.51 H             | 314                  | 76.5             | 41.9                     |
| 4                                                    | #5950.90        | 58.2 PK                 | 88.2           | -30.0       | 2.51 H             | 314                  | 54.6             | 3.6                      |
| 5                                                    | 11690.00        | 57.8 PK                 | 74.0           | -16.2       | 2.26 H             | 84                   | 48.5             | 9.3                      |
| 6                                                    | 11690.00        | 49.0 AV                 | 54.0           | -5.0        | 2.26 H             | 84                   | 39.7             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5641.68        | 59.0 PK                 | 68.2           | -9.2        | 4.00 V             | 9                    | 56.0             | 3.0                      |
| 2                                                    | *5845.00        | 124.7 PK                |                |             | 4.00 V             | 9                    | 82.8             | 41.9                     |
| 3                                                    | *5845.00        | 114.7 AV                |                |             | 4.00 V             | 9                    | 72.8             | 41.9                     |
| 4                                                    | #5978.45        | 58.4 PK                 | 88.2           | -29.8       | 4.00 V             | 9                    | 54.9             | 3.5                      |
| 5                                                    | 11690.00        | 57.6 PK                 | 74.0           | -16.4       | 1.87 V             | 61                   | 48.3             | 9.3                      |
| 6                                                    | 11690.00        | 48.8 AV                 | 54.0           | -5.2        | 1.87 V             | 61                   | 39.5             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5598.45        | 57.6 PK                 | 68.2           | -10.6       | 2.10 H             | 48                   | 54.8             | 2.8                      |
| 2                                                    | *5865.00        | 126.7 PK                |                |             | 2.10 H             | 48                   | 84.7             | 42.0                     |
| 3                                                    | *5865.00        | 117.4 AV                |                |             | 2.10 H             | 48                   | 75.4             | 42.0                     |
| 4                                                    | #5947.10        | 57.4 PK                 | 88.2           | -30.8       | 2.10 H             | 48                   | 53.7             | 3.7                      |
| 5                                                    | 11730.00        | 57.6 PK                 | 74.0           | -16.4       | 2.25 H             | 67                   | 48.3             | 9.3                      |
| 6                                                    | 11730.00        | 48.9 AV                 | 54.0           | -5.1        | 2.25 H             | 67                   | 39.6             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5564.25        | 57.7 PK                 | 68.2           | -10.5       | 3.99 V             | 10                   | 55.1             | 2.6                      |
| 2                                                    | *5865.00        | 124.2 PK                |                |             | 3.99 V             | 10                   | 82.2             | 42.0                     |
| 3                                                    | *5865.00        | 115.7 AV                |                |             | 3.99 V             | 10                   | 73.7             | 42.0                     |
| 4                                                    | #5930.95        | 57.9 PK                 | 88.2           | -30.3       | 3.99 V             | 10                   | 54.1             | 3.8                      |
| 5                                                    | 11730.00        | 57.3 PK                 | 74.0           | -16.7       | 1.89 V             | 58                   | 48.0             | 9.3                      |
| 6                                                    | 11730.00        | 48.7 AV                 | 54.0           | -5.3        | 1.89 V             | 58                   | 39.4             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5579.45        | 61.4 PK                 | 68.2           | -6.8        | 2.45 H             | 314                  | 58.8             | 2.6                      |
| 2                                                    | *5885.00        | 125.3 PK                |                |             | 2.45 H             | 314                  | 83.4             | 41.9                     |
| 3                                                    | *5885.00        | 116.9 AV                |                |             | 2.45 H             | 314                  | 75.0             | 41.9                     |
| 4                                                    | #5931.90        | 60.5 PK                 | 88.2           | -27.7       | 2.45 H             | 314                  | 56.7             | 3.8                      |
| 5                                                    | 11770.00        | 57.7 PK                 | 74.0           | -16.3       | 2.14 H             | 65                   | 48.6             | 9.1                      |
| 6                                                    | 11770.00        | 48.9 AV                 | 54.0           | -5.1        | 2.14 H             | 65                   | 39.8             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5615.07        | 57.8 PK                 | 68.2           | -10.4       | 4.00 V             | 359                  | 54.9             | 2.9                      |
| 2                                                    | *5885.00        | 122.1 PK                |                |             | 4.00 V             | 359                  | 80.2             | 41.9                     |
| 3                                                    | *5885.00        | 113.5 AV                |                |             | 4.00 V             | 359                  | 71.6             | 41.9                     |
| 4                                                    | #5925.73        | 58.9 PK                 | 88.2           | -29.3       | 4.00 V             | 359                  | 55.1             | 3.8                      |
| 5                                                    | 11770.00        | 57.4 PK                 | 74.0           | -16.6       | 1.85 V             | 45                   | 48.3             | 9.1                      |
| 6                                                    | 11770.00        | 48.6 AV                 | 54.0           | -5.4        | 1.85 V             | 45                   | 39.5             | 9.1                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 167 : 5835 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5570.43        | 60.3 PK                 | 68.2           | -7.9        | 2.62 H             | 307                  | 57.7             | 2.6                      |
| 2                                                    | *5835.00        | 124.6 PK                |                |             | 2.62 H             | 307                  | 82.7             | 41.9                     |
| 3                                                    | *5835.00        | 115.8 AV                |                |             | 2.62 H             | 307                  | 73.9             | 41.9                     |
| 4                                                    | #5927.15        | 58.4 PK                 | 88.2           | -29.8       | 2.62 H             | 307                  | 54.6             | 3.8                      |
| 5                                                    | 11670.00        | 57.7 PK                 | 74.0           | -16.3       | 2.25 H             | 80                   | 48.4             | 9.3                      |
| 6                                                    | 11670.00        | 48.9 AV                 | 54.0           | -5.1        | 2.25 H             | 80                   | 39.6             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5622.20        | 59.7 PK                 | 68.2           | -8.5        | 3.87 V             | 8                    | 56.7             | 3.0                      |
| 2                                                    | *5835.00        | 122.9 PK                |                |             | 3.87 V             | 8                    | 81.0             | 41.9                     |
| 3                                                    | *5835.00        | 112.8 AV                |                |             | 3.87 V             | 8                    | 70.9             | 41.9                     |
| 4                                                    | #5983.20        | 57.7 PK                 | 88.2           | -30.5       | 3.87 V             | 8                    | 54.2             | 3.5                      |
| 5                                                    | 11670.00        | 57.5 PK                 | 74.0           | -16.5       | 1.87 V             | 51                   | 48.2             | 9.3                      |
| 6                                                    | 11670.00        | 48.7 AV                 | 54.0           | -5.3        | 1.87 V             | 51                   | 39.4             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                 |                 |                               |                                                            |
|-----------------|-----------------|-------------------------------|------------------------------------------------------------|
| RF Mode         | 802.11ax (HE40) | Channel                       | CH 175 : 5875 MHz                                          |
| Frequency Range | 1 GHz ~ 40 GHz  | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 23°C, 68% RH                                               |
| Tested By       | Wade Huang      |                               |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5608.43        | 59.9 PK                 | 68.2           | -8.3        | 2.45 H             | 306                  | 57.0             | 2.9                      |
| 2                                                    | *5875.00        | 123.3 PK                |                |             | 2.45 H             | 306                  | 81.4             | 41.9                     |
| 3                                                    | *5875.00        | 114.0 AV                |                |             | 2.45 H             | 306                  | 72.1             | 41.9                     |
| 4                                                    | #5925.25        | 70.4 PK                 | 88.2           | -17.8       | 2.45 H             | 306                  | 66.6             | 3.8                      |
| 5                                                    | 11750.00        | 58.0 PK                 | 74.0           | -16.0       | 2.24 H             | 79                   | 48.7             | 9.3                      |
| 6                                                    | 11750.00        | 49.1 AV                 | 54.0           | -4.9        | 2.24 H             | 79                   | 39.8             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5645.95        | 58.1 PK                 | 68.2           | -10.1       | 3.74 V             | 339                  | 55.1             | 3.0                      |
| 2                                                    | *5875.00        | 122.2 PK                |                |             | 3.74 V             | 339                  | 80.3             | 41.9                     |
| 3                                                    | *5875.00        | 112.9 AV                |                |             | 3.74 V             | 339                  | 71.0             | 41.9                     |
| 4                                                    | #5927.15        | 60.5 PK                 | 88.2           | -27.7       | 3.74 V             | 339                  | 56.7             | 3.8                      |
| 5                                                    | 11750.00        | 57.8 PK                 | 74.0           | -16.2       | 1.79 V             | 49                   | 48.5             | 9.3                      |
| 6                                                    | 11750.00        | 48.8 AV                 | 54.0           | -5.2        | 1.79 V             | 49                   | 39.5             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE80) | <b>Channel</b>                           | CH 171 : 5855 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5642.15        | 67.4 PK                 | 68.2           | -0.8        | 2.50 H             | 306                  | 64.4             | 3.0                      |
| 2                                                    | *5855.00        | 120.1 PK                |                |             | 2.50 H             | 306                  | 78.1             | 42.0                     |
| 3                                                    | *5855.00        | 112.1 AV                |                |             | 2.50 H             | 306                  | 70.1             | 42.0                     |
| 4                                                    | #5926.20        | 72.4 PK                 | 88.2           | -15.8       | 2.50 H             | 306                  | 68.6             | 3.8                      |
| 5                                                    | 11710.00        | 57.8 PK                 | 74.0           | -16.2       | 2.26 H             | 78                   | 48.6             | 9.2                      |
| 6                                                    | 11710.00        | 48.9 AV                 | 54.0           | -5.1        | 2.26 H             | 78                   | 39.7             | 9.2                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5642.15        | 64.2 PK                 | 68.2           | -4.0        | 3.77 V             | 339                  | 61.2             | 3.0                      |
| 2                                                    | *5855.00        | 118.5 PK                |                |             | 3.77 V             | 339                  | 76.5             | 42.0                     |
| 3                                                    | *5855.00        | 110.3 AV                |                |             | 3.77 V             | 339                  | 68.3             | 42.0                     |
| 4                                                    | #5926.20        | 71.3 PK                 | 88.2           | -16.9       | 3.77 V             | 339                  | 67.5             | 3.8                      |
| 5                                                    | 11710.00        | 57.6 PK                 | 74.0           | -16.4       | 1.75 V             | 51                   | 48.4             | 9.2                      |
| 6                                                    | 11710.00        | 48.7 AV                 | 54.0           | -5.3        | 1.75 V             | 51                   | 39.5             | 9.2                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

**FAP-431G\_Radio 3 (Test Mode C)**

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5603.20        | 55.9 PK                 | 68.2           | -12.3       | 1.89 H             | 66                   | 53.1             | 2.8                      |
| 2                                                    | *5845.00        | 118.7 PK                |                |             | 1.89 H             | 66                   | 76.8             | 41.9                     |
| 3                                                    | *5845.00        | 112.1 AV                |                |             | 1.89 H             | 66                   | 70.2             | 41.9                     |
| 4                                                    | #5928.10        | 56.0 PK                 | 88.2           | -32.2       | 1.89 H             | 66                   | 52.2             | 3.8                      |
| 5                                                    | 11690.00        | 57.9 PK                 | 74.0           | -16.1       | 1.55 H             | 237                  | 48.6             | 9.3                      |
| 6                                                    | 11690.00        | 47.6 AV                 | 54.0           | -6.4        | 1.55 H             | 237                  | 38.3             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5631.23        | 55.8 PK                 | 68.2           | -12.4       | 1.43 V             | 356                  | 52.8             | 3.0                      |
| 2                                                    | *5845.00        | 112.9 PK                |                |             | 1.43 V             | 356                  | 71.0             | 41.9                     |
| 3                                                    | *5845.00        | 106.3 AV                |                |             | 1.43 V             | 356                  | 64.4             | 41.9                     |
| 4                                                    | #5925.25        | 56.6 PK                 | 88.2           | -31.6       | 1.43 V             | 356                  | 52.8             | 3.8                      |
| 5                                                    | 11690.00        | 57.8 PK                 | 74.0           | -16.2       | 2.27 V             | 215                  | 48.5             | 9.3                      |
| 6                                                    | 11690.00        | 47.5 AV                 | 54.0           | -6.5        | 2.27 V             | 215                  | 38.2             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5571.37        | 56.7 PK                 | 68.2           | -11.5       | 1.89 H             | 65                   | 54.1             | 2.6                      |
| 2                                                    | *5865.00        | 119.4 PK                |                |             | 1.89 H             | 65                   | 77.4             | 42.0                     |
| 3                                                    | *5865.00        | 112.0 AV                |                |             | 1.89 H             | 65                   | 70.0             | 42.0                     |
| 4                                                    | #5951.85        | 57.5 PK                 | 88.2           | -30.7       | 1.89 H             | 65                   | 53.9             | 3.6                      |
| 5                                                    | 11730.00        | 57.7 PK                 | 74.0           | -16.3       | 1.56 H             | 233                  | 48.4             | 9.3                      |
| 6                                                    | 11730.00        | 47.5 AV                 | 54.0           | -6.5        | 1.56 H             | 233                  | 38.2             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5572.80        | 56.9 PK                 | 68.2           | -11.3       | 1.44 V             | 356                  | 54.3             | 2.6                      |
| 2                                                    | *5865.00        | 113.8 PK                |                |             | 1.44 V             | 356                  | 71.8             | 42.0                     |
| 3                                                    | *5865.00        | 106.7 AV                |                |             | 1.44 V             | 356                  | 64.7             | 42.0                     |
| 4                                                    | #5931.90        | 58.3 PK                 | 88.2           | -29.9       | 1.44 V             | 356                  | 54.5             | 3.8                      |
| 5                                                    | 11730.00        | 57.4 PK                 | 74.0           | -16.6       | 2.31 V             | 214                  | 48.1             | 9.3                      |
| 6                                                    | 11730.00        | 47.3 AV                 | 54.0           | -6.7        | 2.31 V             | 214                  | 38.0             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5624.57        | 57.2 PK                 | 68.2           | -11.0       | 1.69 H             | 63                   | 54.2             | 3.0                      |
| 2                                                    | *5885.00        | 119.1 PK                |                |             | 1.69 H             | 63                   | 77.2             | 41.9                     |
| 3                                                    | *5885.00        | 112.1 AV                |                |             | 1.69 H             | 63                   | 70.2             | 41.9                     |
| 4                                                    | #5928.10        | 72.0 PK                 | 88.2           | -16.2       | 1.69 H             | 63                   | 68.2             | 3.8                      |
| 5                                                    | 11770.00        | 57.4 PK                 | 74.0           | -16.6       | 1.62 H             | 228                  | 48.3             | 9.1                      |
| 6                                                    | 11770.00        | 47.7 AV                 | 54.0           | -6.3        | 1.62 H             | 228                  | 38.6             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5607.00        | 56.4 PK                 | 68.2           | -11.8       | 1.43 V             | 355                  | 53.5             | 2.9                      |
| 2                                                    | *5885.00        | 113.6 PK                |                |             | 1.43 V             | 355                  | 71.7             | 41.9                     |
| 3                                                    | *5885.00        | 106.6 AV                |                |             | 1.43 V             | 355                  | 64.7             | 41.9                     |
| 4                                                    | #5925.73        | 68.4 PK                 | 88.2           | -19.8       | 1.43 V             | 355                  | 64.6             | 3.8                      |
| 5                                                    | 11770.00        | 57.3 PK                 | 74.0           | -16.7       | 2.35 V             | 208                  | 48.2             | 9.1                      |
| 6                                                    | 11770.00        | 47.5 AV                 | 54.0           | -6.5        | 2.35 V             | 208                  | 38.4             | 9.1                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5641.20        | 56.5 PK                 | 68.2           | -11.7       | 2.18 H             | 64                   | 53.5             | 3.0                      |
| 2                                                    | *5845.00        | 120.4 PK                |                |             | 2.18 H             | 64                   | 78.5             | 41.9                     |
| 3                                                    | *5845.00        | 112.4 AV                |                |             | 2.18 H             | 64                   | 70.5             | 41.9                     |
| 4                                                    | #5933.32        | 58.5 PK                 | 88.2           | -29.7       | 2.18 H             | 64                   | 54.7             | 3.8                      |
| 5                                                    | 11690.00        | 57.4 PK                 | 74.0           | -16.6       | 1.63 H             | 232                  | 48.1             | 9.3                      |
| 6                                                    | 11690.00        | 47.5 AV                 | 54.0           | -6.5        | 1.63 H             | 232                  | 38.2             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5622.68        | 56.7 PK                 | 68.2           | -11.5       | 1.45 V             | 355                  | 53.7             | 3.0                      |
| 2                                                    | *5845.00        | 114.9 PK                |                |             | 1.45 V             | 355                  | 73.0             | 41.9                     |
| 3                                                    | *5845.00        | 106.4 AV                |                |             | 1.45 V             | 355                  | 64.5             | 41.9                     |
| 4                                                    | #5974.65        | 57.7 PK                 | 88.2           | -30.5       | 1.45 V             | 355                  | 54.2             | 3.5                      |
| 5                                                    | 11690.00        | 57.1 PK                 | 74.0           | -16.9       | 2.21 V             | 217                  | 47.8             | 9.3                      |
| 6                                                    | 11690.00        | 47.3 AV                 | 54.0           | -6.7        | 2.21 V             | 217                  | 38.0             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5581.82        | 56.2 PK                 | 68.2           | -12.0       | 2.00 H             | 62                   | 53.6             | 2.6                      |
| 2                                                    | *5865.00        | 120.2 PK                |                |             | 2.00 H             | 62                   | 78.2             | 42.0                     |
| 3                                                    | *5865.00        | 112.5 AV                |                |             | 2.00 H             | 62                   | 70.5             | 42.0                     |
| 4                                                    | #5934.27        | 64.2 PK                 | 88.2           | -24.0       | 2.00 H             | 62                   | 60.4             | 3.8                      |
| 5                                                    | 11730.00        | 57.6 PK                 | 74.0           | -16.4       | 1.63 H             | 219                  | 48.3             | 9.3                      |
| 6                                                    | 11730.00        | 47.5 AV                 | 54.0           | -6.5        | 1.63 H             | 219                  | 38.2             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5643.10        | 56.8 PK                 | 68.2           | -11.4       | 1.45 V             | 356                  | 53.8             | 3.0                      |
| 2                                                    | *5865.00        | 113.8 PK                |                |             | 1.45 V             | 356                  | 71.8             | 42.0                     |
| 3                                                    | *5865.00        | 106.6 AV                |                |             | 1.45 V             | 356                  | 64.6             | 42.0                     |
| 4                                                    | #5927.62        | 60.7 PK                 | 88.2           | -27.5       | 1.45 V             | 356                  | 56.9             | 3.8                      |
| 5                                                    | 11730.00        | 57.3 PK                 | 74.0           | -16.7       | 2.22 V             | 208                  | 48.0             | 9.3                      |
| 6                                                    | 11730.00        | 47.3 AV                 | 54.0           | -6.7        | 2.22 V             | 208                  | 38.0             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5584.20        | 56.8 PK                 | 68.2           | -11.4       | 2.15 H             | 61                   | 54.2             | 2.6                      |
| 2                                                    | *5885.00        | 120.2 PK                |                |             | 2.15 H             | 61                   | 78.3             | 41.9                     |
| 3                                                    | *5885.00        | 112.9 AV                |                |             | 2.15 H             | 61                   | 71.0             | 41.9                     |
| 4                                                    | #5934.27        | 73.4 PK                 | 88.2           | -14.8       | 2.15 H             | 61                   | 69.6             | 3.8                      |
| 5                                                    | 11770.00        | 57.3 PK                 | 74.0           | -16.7       | 1.52 H             | 222                  | 48.2             | 9.1                      |
| 6                                                    | 11770.00        | 47.2 AV                 | 54.0           | -6.8        | 1.52 H             | 222                  | 38.1             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5619.35        | 56.5 PK                 | 68.2           | -11.7       | 1.35 V             | 356                  | 53.6             | 2.9                      |
| 2                                                    | *5885.00        | 114.2 PK                |                |             | 1.35 V             | 356                  | 72.3             | 41.9                     |
| 3                                                    | *5885.00        | 106.4 AV                |                |             | 1.35 V             | 356                  | 64.5             | 41.9                     |
| 4                                                    | #5926.68        | 70.6 PK                 | 88.2           | -17.6       | 1.35 V             | 356                  | 66.8             | 3.8                      |
| 5                                                    | 11770.00        | 57.1 PK                 | 74.0           | -16.9       | 2.29 V             | 201                  | 48.0             | 9.1                      |
| 6                                                    | 11770.00        | 47.0 AV                 | 54.0           | -7.0        | 2.29 V             | 201                  | 37.9             | 9.1                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 167 : 5835 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5642.62        | 57.4 PK                 | 68.2           | -10.8       | 2.08 H             | 62                   | 54.4             | 3.0                      |
| 2                                                    | *5835.00        | 118.7 PK                |                |             | 2.08 H             | 62                   | 76.8             | 41.9                     |
| 3                                                    | *5835.00        | 109.2 AV                |                |             | 2.08 H             | 62                   | 67.3             | 41.9                     |
| 4                                                    | #5934.27        | 68.7 PK                 | 88.2           | -19.5       | 2.08 H             | 62                   | 64.9             | 3.8                      |
| 5                                                    | 11670.00        | 57.0 PK                 | 74.0           | -17.0       | 1.53 H             | 218                  | 47.7             | 9.3                      |
| 6                                                    | 11670.00        | 47.2 AV                 | 54.0           | -6.8        | 1.53 H             | 218                  | 37.9             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5588.00        | 57.6 PK                 | 68.2           | -10.6       | 1.35 V             | 359                  | 54.8             | 2.8                      |
| 2                                                    | *5835.00        | 112.4 PK                |                |             | 1.35 V             | 359                  | 70.5             | 41.9                     |
| 3                                                    | *5835.00        | 102.9 AV                |                |             | 1.35 V             | 359                  | 61.0             | 41.9                     |
| 4                                                    | #5925.73        | 64.2 PK                 | 88.2           | -24.0       | 1.35 V             | 359                  | 60.4             | 3.8                      |
| 5                                                    | 11670.00        | 56.9 PK                 | 74.0           | -17.1       | 2.31 V             | 200                  | 47.6             | 9.3                      |
| 6                                                    | 11670.00        | 47.1 AV                 | 54.0           | -6.9        | 2.31 V             | 200                  | 37.8             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 175 : 5875 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5579.45        | 56.7 PK                 | 68.2           | -11.5       | 2.02 H             | 61                   | 54.1             | 2.6                      |
| 2                                                    | *5875.00        | 117.3 PK                |                |             | 2.02 H             | 61                   | 75.4             | 41.9                     |
| 3                                                    | *5875.00        | 109.1 AV                |                |             | 2.02 H             | 61                   | 67.2             | 41.9                     |
| 4                                                    | #5925.25        | 86.7 PK                 | 88.2           | -1.5        | 2.02 H             | 61                   | 82.9             | 3.8                      |
| 5                                                    | 11750.00        | 56.9 PK                 | 74.0           | -17.1       | 1.59 H             | 236                  | 47.6             | 9.3                      |
| 6                                                    | 11750.00        | 46.8 AV                 | 54.0           | -7.2        | 1.59 H             | 236                  | 37.5             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5579.45        | 56.7 PK                 | 68.2           | -11.5       | 1.20 V             | 357                  | 54.1             | 2.6                      |
| 2                                                    | *5875.00        | 111.4 PK                |                |             | 1.20 V             | 357                  | 69.5             | 41.9                     |
| 3                                                    | *5875.00        | 102.7 AV                |                |             | 1.20 V             | 357                  | 60.8             | 41.9                     |
| 4                                                    | #5925.25        | 84.7 PK                 | 88.2           | -3.5        | 1.20 V             | 357                  | 80.9             | 3.8                      |
| 5                                                    | 11750.00        | 56.8 PK                 | 74.0           | -17.2       | 2.26 V             | 197                  | 47.5             | 9.3                      |
| 6                                                    | 11750.00        | 46.7 AV                 | 54.0           | -7.3        | 2.26 V             | 197                  | 37.4             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE80) | <b>Channel</b>                           | CH 171 : 5855 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5640.73        | 66.3 PK                 | 68.2           | -1.9        | 1.80 H             | 61                   | 63.3             | 3.0                      |
| 2                                                    | *5855.00        | 114.2 PK                |                |             | 1.80 H             | 61                   | 72.2             | 42.0                     |
| 3                                                    | *5855.00        | 106.3 AV                |                |             | 1.80 H             | 61                   | 64.3             | 42.0                     |
| 4                                                    | #5930.48        | 89.6 PK                 | 108.2          | -18.6       | 1.80 H             | 61                   | 85.8             | 3.8                      |
| 5                                                    | #5930.48        | 80.0 AV                 | 88.2           | -8.2        | 1.80 H             | 61                   | 76.2             | 3.8                      |
| 6                                                    | 11710.00        | 56.8 PK                 | 74.0           | -17.2       | 1.63 H             | 234                  | 47.6             | 9.2                      |
| 7                                                    | 11710.00        | 46.7 AV                 | 54.0           | -7.3        | 1.63 H             | 234                  | 37.5             | 9.2                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5620.30        | 58.8 PK                 | 68.2           | -9.4        | 1.15 V             | 357                  | 55.9             | 2.9                      |
| 2                                                    | *5855.00        | 107.4 PK                |                |             | 1.15 V             | 357                  | 65.4             | 42.0                     |
| 3                                                    | *5855.00        | 100.0 AV                |                |             | 1.15 V             | 357                  | 58.0             | 42.0                     |
| 4                                                    | #5932.85        | 84.1 PK                 | 108.2          | -24.1       | 1.15 V             | 357                  | 80.3             | 3.8                      |
| 5                                                    | #5932.85        | 73.9 AV                 | 88.2           | -14.3       | 1.15 V             | 357                  | 70.1             | 3.8                      |
| 6                                                    | 11710.00        | 56.6 PK                 | 74.0           | -17.4       | 2.35 V             | 205                  | 47.4             | 9.2                      |
| 7                                                    | 11710.00        | 46.6 AV                 | 54.0           | -7.4        | 2.35 V             | 205                  | 37.4             | 9.2                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE160) | <b>Channel</b>                           | CH 163 : 5815 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang       |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5641.20        | 67.2 PK                 | 68.2           | -1.0        | 1.91 H             | 62                   | 64.2             | 3.0                      |
| 2                                                    | *5815.00        | 108.8 PK                |                |             | 1.91 H             | 62                   | 66.9             | 41.9                     |
| 3                                                    | *5815.00        | 99.7 AV                 |                |             | 1.91 H             | 62                   | 57.8             | 41.9                     |
| 4                                                    | #5932.85        | 70.4 PK                 | 88.2           | -17.8       | 1.91 H             | 62                   | 66.6             | 3.8                      |
| 5                                                    | 11630.00        | 56.5 PK                 | 74.0           | -17.5       | 1.66 H             | 237                  | 47.3             | 9.2                      |
| 6                                                    | 11630.00        | 46.4 AV                 | 54.0           | -7.6        | 1.66 H             | 237                  | 37.2             | 9.2                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5642.62        | 64.3 PK                 | 68.2           | -3.9        | 1.25 V             | 355                  | 61.3             | 3.0                      |
| 2                                                    | *5815.00        | 103.6 PK                |                |             | 1.25 V             | 355                  | 61.7             | 41.9                     |
| 3                                                    | *5815.00        | 94.6 AV                 |                |             | 1.25 V             | 355                  | 52.7             | 41.9                     |
| 4                                                    | #5935.70        | 72.9 PK                 | 88.2           | -15.3       | 1.25 V             | 355                  | 69.1             | 3.8                      |
| 5                                                    | 11630.00        | 56.2 PK                 | 74.0           | -17.8       | 2.17 V             | 201                  | 47.0             | 9.2                      |
| 6                                                    | 11630.00        | 46.2 AV                 | 54.0           | -7.8        | 2.17 V             | 201                  | 37.0             | 9.2                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

# FAP-431G\_Scanning Radio (Test Mode E)

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5568.05        | 55.7 PK                 | 68.2           | -12.5       | 1.73 H             | 63                   | 53.1             | 2.6                      |
| 2                                                    | *5845.00        | 120.2 PK                |                |             | 1.73 H             | 63                   | 78.3             | 41.9                     |
| 3                                                    | *5845.00        | 112.8 AV                |                |             | 1.73 H             | 63                   | 70.9             | 41.9                     |
| 4                                                    | #5930.95        | 64.9 PK                 | 88.2           | -23.3       | 1.73 H             | 63                   | 61.1             | 3.8                      |
| 5                                                    | 11690.00        | 61.3 PK                 | 74.0           | -12.7       | 1.47 H             | 39                   | 52.0             | 9.3                      |
| 6                                                    | 11690.00        | 51.4 AV                 | 54.0           | -2.6        | 1.47 H             | 39                   | 42.1             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5645.00        | 55.8 PK                 | 68.2           | -12.4       | 1.80 V             | 321                  | 52.8             | 3.0                      |
| 2                                                    | *5845.00        | 115.4 PK                |                |             | 1.80 V             | 321                  | 73.5             | 41.9                     |
| 3                                                    | *5845.00        | 108.2 AV                |                |             | 1.80 V             | 321                  | 66.3             | 41.9                     |
| 4                                                    | #5937.12        | 62.6 PK                 | 88.2           | -25.6       | 1.80 V             | 321                  | 58.8             | 3.8                      |
| 5                                                    | 11690.00        | 58.2 PK                 | 74.0           | -15.8       | 2.05 V             | 68                   | 48.9             | 9.3                      |
| 6                                                    | 11690.00        | 48.2 AV                 | 54.0           | -5.8        | 2.05 V             | 68                   | 38.9             | 9.3                      |

## Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5642.62        | 56.5 PK                 | 68.2           | -11.7       | 1.66 H             | 68                   | 53.5             | 3.0                      |
| 2                                                    | *5865.00        | 120.4 PK                |                |             | 1.66 H             | 68                   | 78.4             | 42.0                     |
| 3                                                    | *5865.00        | 113.0 AV                |                |             | 1.66 H             | 68                   | 71.0             | 42.0                     |
| 4                                                    | #5936.65        | 67.8 PK                 | 88.2           | -20.4       | 1.66 H             | 68                   | 64.0             | 3.8                      |
| 5                                                    | 11730.00        | 63.1 PK                 | 74.0           | -10.9       | 1.55 H             | 41                   | 53.8             | 9.3                      |
| 6                                                    | 11730.00        | 51.9 AV                 | 54.0           | -2.1        | 1.55 H             | 41                   | 42.6             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5600.82        | 56.6 PK                 | 68.2           | -11.6       | 1.72 V             | 325                  | 53.8             | 2.8                      |
| 2                                                    | *5865.00        | 117.5 PK                |                |             | 1.72 V             | 325                  | 75.5             | 42.0                     |
| 3                                                    | *5865.00        | 109.1 AV                |                |             | 1.72 V             | 325                  | 67.1             | 42.0                     |
| 4                                                    | #5927.15        | 70.4 PK                 | 88.2           | -17.8       | 1.72 V             | 325                  | 66.6             | 3.8                      |
| 5                                                    | 11730.00        | 57.9 PK                 | 74.0           | -16.1       | 2.17 V             | 59                   | 48.6             | 9.3                      |
| 6                                                    | 11730.00        | 47.8 AV                 | 54.0           | -6.2        | 2.17 V             | 59                   | 38.5             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5630.75        | 55.4 PK                 | 68.2           | -12.8       | 1.79 H             | 64                   | 52.4             | 3.0                      |
| 2                                                    | *5885.00        | 120.4 PK                |                |             | 1.79 H             | 64                   | 78.5             | 41.9                     |
| 3                                                    | *5885.00        | 113.5 AV                |                |             | 1.79 H             | 64                   | 71.6             | 41.9                     |
| 4                                                    | #5927.15        | 77.6 PK                 | 88.2           | -10.6       | 1.79 H             | 64                   | 73.8             | 3.8                      |
| 5                                                    | 11770.00        | 60.9 PK                 | 74.0           | -13.1       | 1.45 H             | 23                   | 51.8             | 9.1                      |
| 6                                                    | 11770.00        | 49.7 AV                 | 54.0           | -4.3        | 1.45 H             | 23                   | 40.6             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5606.20        | 56.1 PK                 | 68.2           | -12.1       | 1.92 V             | 325                  | 53.3             | 2.8                      |
| 2                                                    | *5885.00        | 116.0 PK                |                |             | 1.92 V             | 325                  | 74.1             | 41.9                     |
| 3                                                    | *5885.00        | 108.7 AV                |                |             | 1.92 V             | 325                  | 66.8             | 41.9                     |
| 4                                                    | #5927.15        | 80.3 PK                 | 88.2           | -7.9        | 1.92 V             | 325                  | 76.5             | 3.8                      |
| 5                                                    | 11770.00        | 58.0 PK                 | 74.0           | -16.0       | 2.28 V             | 62                   | 48.9             | 9.1                      |
| 6                                                    | 11770.00        | 47.8 AV                 | 54.0           | -6.2        | 2.28 V             | 62                   | 38.7             | 9.1                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5628.37        | 56.7 PK                 | 68.2           | -11.5       | 1.72 H             | 61                   | 53.7             | 3.0                      |
| 2                                                    | *5845.00        | 120.5 PK                |                |             | 1.72 H             | 61                   | 78.6             | 41.9                     |
| 3                                                    | *5845.00        | 113.4 AV                |                |             | 1.72 H             | 61                   | 71.5             | 41.9                     |
| 4                                                    | #5928.10        | 67.2 PK                 | 88.2           | -21.0       | 1.72 H             | 61                   | 63.4             | 3.8                      |
| 5                                                    | 11690.00        | 57.8 PK                 | 74.0           | -16.2       | 1.55 H             | 32                   | 48.5             | 9.3                      |
| 6                                                    | 11690.00        | 47.9 AV                 | 54.0           | -6.1        | 1.55 H             | 32                   | 38.6             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5580.87        | 57.4 PK                 | 68.2           | -10.8       | 1.93 V             | 7                    | 54.8             | 2.6                      |
| 2                                                    | *5845.00        | 115.3 PK                |                |             | 1.93 V             | 7                    | 73.4             | 41.9                     |
| 3                                                    | *5845.00        | 107.5 AV                |                |             | 1.93 V             | 7                    | 65.6             | 41.9                     |
| 4                                                    | #5930.00        | 63.6 PK                 | 88.2           | -24.6       | 1.93 V             | 7                    | 59.8             | 3.8                      |
| 5                                                    | 11690.00        | 58.1 PK                 | 74.0           | -15.9       | 2.34 V             | 49                   | 48.8             | 9.3                      |
| 6                                                    | 11690.00        | 47.9 AV                 | 54.0           | -6.1        | 2.34 V             | 49                   | 38.6             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5625.52        | 55.8 PK                 | 68.2           | -12.4       | 1.74 H             | 62                   | 52.8             | 3.0                      |
| 2                                                    | *5865.00        | 121.0 PK                |                |             | 1.74 H             | 62                   | 79.0             | 42.0                     |
| 3                                                    | *5865.00        | 113.4 AV                |                |             | 1.74 H             | 62                   | 71.4             | 42.0                     |
| 4                                                    | #5928.57        | 75.5 PK                 | 88.2           | -12.7       | 1.74 H             | 62                   | 71.7             | 3.8                      |
| 5                                                    | 11730.00        | 57.9 PK                 | 74.0           | -16.1       | 1.45 H             | 38                   | 48.6             | 9.3                      |
| 6                                                    | 11730.00        | 48.4 AV                 | 54.0           | -5.6        | 1.45 H             | 38                   | 39.1             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5620.77        | 56.9 PK                 | 68.2           | -11.3       | 1.93 V             | 328                  | 54.0             | 2.9                      |
| 2                                                    | *5865.00        | 116.0 PK                |                |             | 1.93 V             | 328                  | 74.0             | 42.0                     |
| 3                                                    | *5865.00        | 108.3 AV                |                |             | 1.93 V             | 328                  | 66.3             | 42.0                     |
| 4                                                    | #5930.00        | 69.8 PK                 | 88.2           | -18.4       | 1.93 V             | 328                  | 66.0             | 3.8                      |
| 5                                                    | 11730.00        | 57.9 PK                 | 74.0           | -16.1       | 2.41 V             | 53                   | 48.6             | 9.3                      |
| 6                                                    | 11730.00        | 47.7 AV                 | 54.0           | -6.3        | 2.41 V             | 53                   | 38.4             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5578.98        | 56.0 PK                 | 68.2           | -12.2       | 1.78 H             | 59                   | 53.4             | 2.6                      |
| 2                                                    | *5885.00        | 121.7 PK                |                |             | 1.78 H             | 59                   | 79.8             | 41.9                     |
| 3                                                    | *5885.00        | 113.7 AV                |                |             | 1.78 H             | 59                   | 71.8             | 41.9                     |
| 4                                                    | #5921.45        | 89.6 PK                 | 90.8           | -1.2        | 1.78 H             | 59                   | 85.9             | 3.7                      |
| 5                                                    | 11770.00        | 57.4 PK                 | 74.0           | -16.6       | 1.51 H             | 48                   | 48.3             | 9.1                      |
| 6                                                    | 11770.00        | 47.6 AV                 | 54.0           | -6.4        | 1.51 H             | 48                   | 38.5             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5633.60        | 55.3 PK                 | 68.2           | -12.9       | 2.54 V             | 5                    | 52.3             | 3.0                      |
| 2                                                    | *5885.00        | 116.1 PK                |                |             | 2.54 V             | 5                    | 74.2             | 41.9                     |
| 3                                                    | *5885.00        | 108.9 AV                |                |             | 2.54 V             | 5                    | 67.0             | 41.9                     |
| 4                                                    | #5930.48        | 77.8 PK                 | 88.2           | -10.4       | 2.54 V             | 5                    | 74.0             | 3.8                      |
| 5                                                    | 11770.00        | 57.8 PK                 | 74.0           | -16.2       | 2.32 V             | 60                   | 48.7             | 9.1                      |
| 6                                                    | 11770.00        | 47.6 AV                 | 54.0           | -6.4        | 2.32 V             | 60                   | 38.5             | 9.1                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 167 : 5835 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5608.43        | 62.4 PK                 | 68.2           | -5.8        | 1.61 H             | 63                   | 59.5             | 2.9                      |
| 2                                                    | *5835.00        | 118.5 PK                |                |             | 1.61 H             | 63                   | 76.6             | 41.9                     |
| 3                                                    | *5835.00        | 110.6 AV                |                |             | 1.61 H             | 63                   | 68.7             | 41.9                     |
| 4                                                    | #5929.52        | 76.2 PK                 | 88.2           | -12.0       | 1.61 H             | 63                   | 72.4             | 3.8                      |
| 5                                                    | 11670.00        | 57.4 PK                 | 74.0           | -16.6       | 1.44 H             | 39                   | 48.1             | 9.3                      |
| 6                                                    | 11670.00        | 46.9 AV                 | 54.0           | -7.1        | 1.44 H             | 39                   | 37.6             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5636.45        | 55.9 PK                 | 68.2           | -12.3       | 1.21 V             | 357                  | 53.0             | 2.9                      |
| 2                                                    | *5835.00        | 113.9 PK                |                |             | 1.21 V             | 357                  | 72.0             | 41.9                     |
| 3                                                    | *5835.00        | 105.6 AV                |                |             | 1.21 V             | 357                  | 63.7             | 41.9                     |
| 4                                                    | #5925.25        | 67.7 PK                 | 88.2           | -20.5       | 1.21 V             | 357                  | 63.9             | 3.8                      |
| 5                                                    | 11670.00        | 57.4 PK                 | 74.0           | -16.6       | 2.24 V             | 59                   | 48.1             | 9.3                      |
| 6                                                    | 11670.00        | 47.5 AV                 | 54.0           | -6.5        | 2.24 V             | 59                   | 38.2             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 175 : 5875 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5648.80        | 57.8 PK                 | 68.2           | -10.4       | 1.78 H             | 61                   | 54.8             | 3.0                      |
| 2                                                    | *5875.00        | 119.2 PK                |                |             | 1.78 H             | 61                   | 77.3             | 41.9                     |
| 3                                                    | *5875.00        | 110.4 AV                |                |             | 1.78 H             | 61                   | 68.5             | 41.9                     |
| 4                                                    | #5926.68        | 88.1 PK                 | 108.2          | -20.1       | 1.78 H             | 61                   | 84.3             | 3.8                      |
| 5                                                    | #5926.68        | 79.7 AV                 | 88.2           | -8.5        | 1.78 H             | 61                   | 75.9             | 3.8                      |
| 6                                                    | 11750.00        | 57.4 PK                 | 74.0           | -16.6       | 1.44 H             | 49                   | 48.1             | 9.3                      |
| 7                                                    | 11750.00        | 47.5 AV                 | 54.0           | -6.5        | 1.44 H             | 49                   | 38.2             | 9.3                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5630.75        | 57.1 PK                 | 68.2           | -11.1       | 1.04 V             | 358                  | 54.1             | 3.0                      |
| 2                                                    | *5875.00        | 114.3 PK                |                |             | 1.04 V             | 358                  | 72.4             | 41.9                     |
| 3                                                    | *5875.00        | 106.1 AV                |                |             | 1.04 V             | 358                  | 64.2             | 41.9                     |
| 4                                                    | #5933.80        | 85.8 PK                 | 108.2          | -22.4       | 1.04 V             | 358                  | 82.0             | 3.8                      |
| 5                                                    | #5933.80        | 75.9 AV                 | 88.2           | -12.3       | 1.04 V             | 358                  | 72.1             | 3.8                      |
| 6                                                    | 11750.00        | 57.3 PK                 | 74.0           | -16.7       | 2.36 V             | 47                   | 48.0             | 9.3                      |
| 7                                                    | 11750.00        | 47.3 AV                 | 54.0           | -6.7        | 2.36 V             | 47                   | 38.0             | 9.3                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE80) | <b>Channel</b>                           | CH 171 : 5855 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5646.43        | 66.8 PK                 | 68.2           | -1.4        | 1.59 H             | 65                   | 63.8             | 3.0                      |
| 2                                                    | *5855.00        | 116.6 PK                |                |             | 1.59 H             | 65                   | 74.6             | 42.0                     |
| 3                                                    | *5855.00        | 106.2 AV                |                |             | 1.59 H             | 65                   | 64.2             | 42.0                     |
| 4                                                    | #5926.68        | 91.4 PK                 | 108.2          | -16.8       | 1.59 H             | 65                   | 87.6             | 3.8                      |
| 5                                                    | #5926.68        | 82.8 AV                 | 88.2           | -5.4        | 1.59 H             | 65                   | 79.0             | 3.8                      |
| 6                                                    | 11710.00        | 57.0 PK                 | 74.0           | -17.0       | 1.46 H             | 36                   | 47.8             | 9.2                      |
| 7                                                    | 11710.00        | 46.8 AV                 | 54.0           | -7.2        | 1.46 H             | 36                   | 37.6             | 9.2                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5640.25        | 58.8 PK                 | 68.2           | -9.4        | 1.00 V             | 353                  | 55.8             | 3.0                      |
| 2                                                    | *5855.00        | 111.0 PK                |                |             | 1.00 V             | 353                  | 69.0             | 42.0                     |
| 3                                                    | *5855.00        | 101.1 AV                |                |             | 1.00 V             | 353                  | 59.1             | 42.0                     |
| 4                                                    | #5930.95        | 82.7 PK                 | 108.2          | -25.5       | 1.00 V             | 353                  | 78.9             | 3.8                      |
| 5                                                    | #5930.95        | 74.6 AV                 | 88.2           | -13.6       | 1.00 V             | 353                  | 70.8             | 3.8                      |
| 6                                                    | 11710.00        | 57.0 PK                 | 74.0           | -17.0       | 2.31 V             | 65                   | 47.8             | 9.2                      |
| 7                                                    | 11710.00        | 47.1 AV                 | 54.0           | -6.9        | 2.31 V             | 65                   | 37.9             | 9.2                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE160) | <b>Channel</b>                           | CH 163 : 5815 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 23°C, 68% RH                                               |
| <b>Tested By</b>       | Wade Huang       |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5648.32        | 67.5 PK                 | 68.2           | -0.7        | 1.60 H             | 65                   | 64.5             | 3.0                      |
| 2                                                    | *5815.00        | 108.7 PK                |                |             | 1.60 H             | 65                   | 66.8             | 41.9                     |
| 3                                                    | *5815.00        | 98.4 AV                 |                |             | 1.60 H             | 65                   | 56.5             | 41.9                     |
| 4                                                    | #5929.52        | 69.5 PK                 | 88.2           | -18.7       | 1.60 H             | 65                   | 65.7             | 3.8                      |
| 5                                                    | 11630.00        | 56.4 PK                 | 74.0           | -17.6       | 1.56 H             | 29                   | 47.2             | 9.2                      |
| 6                                                    | 11630.00        | 46.7 AV                 | 54.0           | -7.3        | 1.56 H             | 29                   | 37.5             | 9.2                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5629.80        | 58.9 PK                 | 68.2           | -9.3        | 1.00 V             | 354                  | 55.9             | 3.0                      |
| 2                                                    | *5815.00        | 103.4 PK                |                |             | 1.00 V             | 354                  | 61.5             | 41.9                     |
| 3                                                    | *5815.00        | 93.3 AV                 |                |             | 1.00 V             | 354                  | 51.4             | 41.9                     |
| 4                                                    | #5930.95        | 61.1 PK                 | 88.2           | -27.1       | 1.00 V             | 354                  | 57.3             | 3.8                      |
| 5                                                    | 11630.00        | 56.9 PK                 | 74.0           | -17.1       | 2.24 V             | 47                   | 47.7             | 9.2                      |
| 6                                                    | 11630.00        | 47.2 AV                 | 54.0           | -6.8        | 2.24 V             | 47                   | 38.0             | 9.2                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

**FAP-433G\_Radio 3 (Test Mode G)**

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5615.07        | 56.6 PK                 | 68.2           | -11.6       | 2.45 H             | 244                  | 53.4             | 3.2                      |
| 2                                                    | *5845.00        | 109.1 PK                |                |             | 2.45 H             | 244                  | 67.5             | 41.6                     |
| 3                                                    | *5845.00        | 100.5 AV                |                |             | 2.45 H             | 244                  | 58.9             | 41.6                     |
| 4                                                    | #5928.10        | 58.5 PK                 | 88.2           | -29.7       | 2.45 H             | 244                  | 54.5             | 4.0                      |
| 5                                                    | 11690.00        | 57.2 PK                 | 74.0           | -16.8       | 2.55 H             | 210                  | 48.3             | 8.9                      |
| 6                                                    | 11690.00        | 47.3 AV                 | 54.0           | -6.7        | 2.55 H             | 210                  | 38.4             | 8.9                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5635.00        | 59.2 PK                 | 68.2           | -9.0        | 2.22 V             | 276                  | 55.8             | 3.4                      |
| 2                                                    | *5845.00        | 124.8 PK                |                |             | 2.22 V             | 276                  | 83.2             | 41.6                     |
| 3                                                    | *5845.00        | 116.0 AV                |                |             | 2.22 V             | 276                  | 74.4             | 41.6                     |
| 4                                                    | #5930.48        | 65.5 PK                 | 88.2           | -22.7       | 2.22 V             | 276                  | 61.5             | 4.0                      |
| 5                                                    | 11690.00        | 57.2 PK                 | 74.0           | -16.8       | 2.21 V             | 241                  | 48.3             | 8.9                      |
| 6                                                    | 11690.00        | 47.4 AV                 | 54.0           | -6.6        | 2.21 V             | 241                  | 38.5             | 8.9                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5618.87        | 56.9 PK                 | 68.2           | -11.3       | 2.21 H             | 266                  | 53.6             | 3.3                      |
| 2                                                    | *5865.00        | 107.7 PK                |                |             | 2.21 H             | 266                  | 66.1             | 41.6                     |
| 3                                                    | *5865.00        | 99.0 AV                 |                |             | 2.21 H             | 266                  | 57.4             | 41.6                     |
| 4                                                    | #5990.32        | 57.5 PK                 | 88.2           | -30.7       | 2.21 H             | 266                  | 53.1             | 4.4                      |
| 5                                                    | 11730.00        | 57.4 PK                 | 74.0           | -16.6       | 2.25 H             | 214                  | 48.6             | 8.8                      |
| 6                                                    | 11730.00        | 47.4 AV                 | 54.0           | -6.6        | 2.25 H             | 214                  | 38.6             | 8.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5612.23        | 59.3 PK                 | 68.2           | -8.9        | 2.20 V             | 73                   | 56.1             | 3.2                      |
| 2                                                    | *5865.00        | 124.8 PK                |                |             | 2.20 V             | 73                   | 83.2             | 41.6                     |
| 3                                                    | *5865.00        | 116.1 AV                |                |             | 2.20 V             | 73                   | 74.5             | 41.6                     |
| 4                                                    | #5938.07        | 74.9 PK                 | 88.2           | -13.3       | 2.20 V             | 73                   | 71.0             | 3.9                      |
| 5                                                    | 11730.00        | 57.4 PK                 | 74.0           | -16.6       | 2.14 V             | 24                   | 48.6             | 8.8                      |
| 6                                                    | 11730.00        | 47.3 AV                 | 54.0           | -6.7        | 2.14 V             | 24                   | 38.5             | 8.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5559.02        | 57.5 PK                 | 68.2           | -10.7       | 2.41 H             | 266                  | 54.6             | 2.9                      |
| 2                                                    | *5885.00        | 107.7 PK                |                |             | 2.41 H             | 266                  | 66.2             | 41.5                     |
| 3                                                    | *5885.00        | 98.5 AV                 |                |             | 2.41 H             | 266                  | 57.0             | 41.5                     |
| 4                                                    | #5929.05        | 65.3 PK                 | 88.2           | -22.9       | 2.41 H             | 266                  | 61.3             | 4.0                      |
| 5                                                    | 11770.00        | 57.3 PK                 | 74.0           | -16.7       | 2.21 H             | 252                  | 48.7             | 8.6                      |
| 6                                                    | 11770.00        | 46.9 AV                 | 54.0           | -7.1        | 2.21 H             | 252                  | 38.3             | 8.6                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5641.68        | 58.1 PK                 | 68.2           | -10.1       | 2.17 V             | 276                  | 54.7             | 3.4                      |
| 2                                                    | *5885.00        | 124.7 PK                |                |             | 2.17 V             | 276                  | 83.2             | 41.5                     |
| 3                                                    | *5885.00        | 116.4 AV                |                |             | 2.17 V             | 276                  | 74.9             | 41.5                     |
| 4                                                    | #5929.05        | 80.6 PK                 | 88.2           | -7.6        | 2.17 V             | 276                  | 76.6             | 4.0                      |
| 5                                                    | 11770.00        | 57.3 PK                 | 74.0           | -16.7       | 2.22 V             | 252                  | 48.7             | 8.6                      |
| 6                                                    | 11770.00        | 47.1 AV                 | 54.0           | -6.9        | 2.22 V             | 252                  | 38.5             | 8.6                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5589.90        | 57.0 PK                 | 68.2           | -11.2       | 2.14 H             | 268                  | 53.9             | 3.1                      |
| 2                                                    | *5845.00        | 108.1 PK                |                |             | 2.14 H             | 268                  | 66.5             | 41.6                     |
| 3                                                    | *5845.00        | 98.7 AV                 |                |             | 2.14 H             | 268                  | 57.1             | 41.6                     |
| 4                                                    | #5930.48        | 60.4 PK                 | 88.2           | -27.8       | 2.14 H             | 268                  | 56.4             | 4.0                      |
| 5                                                    | 11690.00        | 57.5 PK                 | 74.0           | -16.5       | 2.14 H             | 223                  | 48.6             | 8.9                      |
| 6                                                    | 11690.00        | 47.4 AV                 | 54.0           | -6.6        | 2.14 H             | 223                  | 38.5             | 8.9                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5574.23        | 59.0 PK                 | 68.2           | -9.2        | 1.99 V             | 292                  | 56.1             | 2.9                      |
| 2                                                    | *5845.00        | 124.0 PK                |                |             | 1.99 V             | 292                  | 82.4             | 41.6                     |
| 3                                                    | *5845.00        | 115.0 AV                |                |             | 1.99 V             | 292                  | 73.4             | 41.6                     |
| 4                                                    | #5931.90        | 73.4 PK                 | 88.2           | -14.8       | 1.99 V             | 292                  | 69.4             | 4.0                      |
| 5                                                    | 11690.00        | 57.5 PK                 | 74.0           | -16.5       | 1.52 V             | 241                  | 48.6             | 8.9                      |
| 6                                                    | 11690.00        | 47.4 AV                 | 54.0           | -6.6        | 1.52 V             | 241                  | 38.5             | 8.9                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5645.95        | 56.8 PK                 | 68.2           | -11.4       | 1.00 H             | 297                  | 53.4             | 3.4                      |
| 2                                                    | *5865.00        | 108.2 PK                |                |             | 1.00 H             | 297                  | 66.6             | 41.6                     |
| 3                                                    | *5865.00        | 99.3 AV                 |                |             | 1.00 H             | 297                  | 57.7             | 41.6                     |
| 4                                                    | #5931.90        | 60.5 PK                 | 88.2           | -27.7       | 1.00 H             | 297                  | 56.5             | 4.0                      |
| 5                                                    | 11730.00        | 57.1 PK                 | 74.0           | -16.9       | 1.22 H             | 271                  | 48.3             | 8.8                      |
| 6                                                    | 11730.00        | 47.0 AV                 | 54.0           | -7.0        | 1.22 H             | 271                  | 38.2             | 8.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5619.82        | 57.9 PK                 | 68.2           | -10.3       | 2.00 V             | 294                  | 54.6             | 3.3                      |
| 2                                                    | *5865.00        | 123.4 PK                |                |             | 2.00 V             | 294                  | 81.8             | 41.6                     |
| 3                                                    | *5865.00        | 114.1 AV                |                |             | 2.00 V             | 294                  | 72.5             | 41.6                     |
| 4                                                    | #5932.37        | 74.2 PK                 | 88.2           | -14.0       | 2.00 V             | 294                  | 70.2             | 4.0                      |
| 5                                                    | 11730.00        | 57.1 PK                 | 74.0           | -16.9       | 2.14 V             | 282                  | 48.3             | 8.8                      |
| 6                                                    | 11730.00        | 47.3 AV                 | 54.0           | -6.7        | 2.14 V             | 282                  | 38.5             | 8.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5631.70        | 57.3 PK                 | 68.2           | -10.9       | 2.39 H             | 243                  | 54.0             | 3.3                      |
| 2                                                    | *5885.00        | 110.1 PK                |                |             | 2.39 H             | 243                  | 68.6             | 41.5                     |
| 3                                                    | *5885.00        | 101.6 AV                |                |             | 2.39 H             | 243                  | 60.1             | 41.5                     |
| 4                                                    | #5925.73        | 70.7 PK                 | 88.2           | -17.5       | 2.39 H             | 243                  | 66.8             | 3.9                      |
| 5                                                    | 11770.00        | 57.3 PK                 | 74.0           | -16.7       | 2.14 H             | 252                  | 48.7             | 8.6                      |
| 6                                                    | 11770.00        | 47.1 AV                 | 54.0           | -6.9        | 2.14 H             | 252                  | 38.5             | 8.6                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5578.02        | 57.8 PK                 | 68.2           | -10.4       | 2.05 V             | 292                  | 54.9             | 2.9                      |
| 2                                                    | *5885.00        | 124.1 PK                |                |             | 2.05 V             | 292                  | 82.6             | 41.5                     |
| 3                                                    | *5885.00        | 115.4 AV                |                |             | 2.05 V             | 292                  | 73.9             | 41.5                     |
| 4                                                    | #5931.90        | 84.0 PK                 | 88.2           | -4.2        | 2.05 V             | 292                  | 80.0             | 4.0                      |
| 5                                                    | 11770.00        | 57.0 PK                 | 74.0           | -17.0       | 2.11 V             | 252                  | 48.4             | 8.6                      |
| 6                                                    | 11770.00        | 47.3 AV                 | 54.0           | -6.7        | 2.11 V             | 252                  | 38.7             | 8.6                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 167 : 5835 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5602.73        | 57.1 PK                 | 68.2           | -11.1       | 1.49 H             | 100                  | 54.0             | 3.1                      |
| 2                                                    | *5835.00        | 106.2 PK                |                |             | 1.49 H             | 100                  | 64.6             | 41.6                     |
| 3                                                    | *5835.00        | 96.5 AV                 |                |             | 1.49 H             | 100                  | 54.9             | 41.6                     |
| 4                                                    | #5932.85        | 60.5 PK                 | 88.2           | -27.7       | 1.49 H             | 100                  | 56.5             | 4.0                      |
| 5                                                    | 11670.00        | 57.6 PK                 | 74.0           | -16.4       | 1.52 H             | 133                  | 48.7             | 8.9                      |
| 6                                                    | 11670.00        | 47.5 AV                 | 54.0           | -6.5        | 1.52 H             | 133                  | 38.6             | 8.9                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5649.27        | 62.3 PK                 | 68.2           | -5.9        | 2.13 V             | 110                  | 58.8             | 3.5                      |
| 2                                                    | *5835.00        | 121.6 PK                |                |             | 2.13 V             | 110                  | 80.0             | 41.6                     |
| 3                                                    | *5835.00        | 113.1 AV                |                |             | 2.13 V             | 110                  | 71.5             | 41.6                     |
| 4                                                    | #5929.05        | 76.0 PK                 | 88.2           | -12.2       | 2.13 V             | 110                  | 72.0             | 4.0                      |
| 5                                                    | 11670.00        | 57.6 PK                 | 74.0           | -16.4       | 2.52 V             | 123                  | 48.7             | 8.9                      |
| 6                                                    | 11670.00        | 47.5 AV                 | 54.0           | -6.5        | 2.52 V             | 123                  | 38.6             | 8.9                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 175 : 5875 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5573.27        | 57.5 PK                 | 68.2           | -10.7       | 2.13 H             | 267                  | 54.6             | 2.9                      |
| 2                                                    | *5875.00        | 103.2 PK                |                |             | 2.13 H             | 267                  | 61.7             | 41.5                     |
| 3                                                    | *5875.00        | 95.9 AV                 |                |             | 2.13 H             | 267                  | 54.4             | 41.5                     |
| 4                                                    | #5936.18        | 69.6 PK                 | 88.2           | -18.6       | 2.13 H             | 267                  | 65.6             | 4.0                      |
| 5                                                    | 11750.00        | 57.2 PK                 | 74.0           | -16.8       | 2.22 H             | 214                  | 48.5             | 8.7                      |
| 6                                                    | 11750.00        | 47.4 AV                 | 54.0           | -6.6        | 2.22 H             | 214                  | 38.7             | 8.7                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5623.62        | 60.1 PK                 | 68.2           | -8.1        | 2.12 V             | 301                  | 56.8             | 3.3                      |
| 2                                                    | *5875.00        | 119.8 PK                |                |             | 2.12 V             | 301                  | 78.3             | 41.5                     |
| 3                                                    | *5875.00        | 111.0 AV                |                |             | 2.12 V             | 301                  | 69.5             | 41.5                     |
| 4                                                    | #5932.37        | 84.9 PK                 | 88.2           | -3.3        | 2.12 V             | 301                  | 80.9             | 4.0                      |
| 5                                                    | 11750.00        | 57.3 PK                 | 74.0           | -16.7       | 2.22 V             | 310                  | 48.6             | 8.7                      |
| 6                                                    | 11750.00        | 47.3 AV                 | 54.0           | -6.7        | 2.22 V             | 310                  | 38.6             | 8.7                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                 |                               |                                                            |
|-----------------|-----------------|-------------------------------|------------------------------------------------------------|
| RF Mode         | 802.11ax (HE80) | Channel                       | CH 171 : 5855 MHz                                          |
| Frequency Range | 1 GHz ~ 40 GHz  | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 24°C, 65% RH                                               |
| Tested By       | Wade Huang      |                               |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5642.15        | 56.6 PK                 | 68.2           | -11.6       | 2.09 H             | 266                  | 53.2             | 3.4                      |
| 2                                                    | *5855.00        | 100.4 PK                |                |             | 2.09 H             | 266                  | 58.8             | 41.6                     |
| 3                                                    | *5855.00        | 91.4 AV                 |                |             | 2.09 H             | 266                  | 49.8             | 41.6                     |
| 4                                                    | #5935.70        | 68.8 PK                 | 88.2           | -19.4       | 2.09 H             | 266                  | 64.8             | 4.0                      |
| 5                                                    | 11710.00        | 57.1 PK                 | 74.0           | -16.9       | 2.41 H             | 255                  | 48.3             | 8.8                      |
| 6                                                    | 11710.00        | 47.0 AV                 | 54.0           | -7.0        | 2.41 H             | 255                  | 38.2             | 8.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5648.80        | 64.0 PK                 | 68.2           | -4.2        | 2.11 V             | 300                  | 60.5             | 3.5                      |
| 2                                                    | *5855.00        | 114.7 PK                |                |             | 2.11 V             | 300                  | 73.1             | 41.6                     |
| 3                                                    | *5855.00        | 106.2 AV                |                |             | 2.11 V             | 300                  | 64.6             | 41.6                     |
| 4                                                    | #5931.90        | 88.0 PK                 | 88.2           | -0.2        | 2.11 V             | 300                  | 84.0             | 4.0                      |
| 5                                                    | 11710.00        | 57.1 PK                 | 74.0           | -16.9       | 2.33 V             | 214                  | 48.3             | 8.8                      |
| 6                                                    | 11710.00        | 47.4 AV                 | 54.0           | -6.6        | 2.33 V             | 214                  | 38.6             | 8.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE160) | <b>Channel</b>                           | CH 163 : 5815 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang       |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5619.82        | 57.8 PK                 | 68.2           | -10.4       | 1.51 H             | 268                  | 54.5             | 3.3                      |
| 2                                                    | *5815.00        | 94.6 PK                 |                |             | 1.51 H             | 268                  | 53.0             | 41.6                     |
| 3                                                    | *5815.00        | 85.6 AV                 |                |             | 1.51 H             | 268                  | 44.0             | 41.6                     |
| 4                                                    | #5963.73        | 59.2 PK                 | 88.2           | -29.0       | 1.51 H             | 268                  | 55.0             | 4.2                      |
| 5                                                    | 11630.00        | 57.7 PK                 | 74.0           | -16.3       | 1.22 H             | 223                  | 48.6             | 9.1                      |
| 6                                                    | 11630.00        | 47.6 AV                 | 54.0           | -6.4        | 1.22 H             | 223                  | 38.5             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5631.23        | 66.9 PK                 | 68.2           | -1.3        | 2.13 V             | 281                  | 63.6             | 3.3                      |
| 2                                                    | *5815.00        | 111.0 PK                |                |             | 2.13 V             | 281                  | 69.4             | 41.6                     |
| 3                                                    | *5815.00        | 102.2 AV                |                |             | 2.13 V             | 281                  | 60.6             | 41.6                     |
| 4                                                    | #5938.55        | 75.4 PK                 | 88.2           | -12.8       | 2.13 V             | 281                  | 71.5             | 3.9                      |
| 5                                                    | 11630.00        | 57.7 PK                 | 74.0           | -16.3       | 2.13 V             | 283                  | 48.6             | 9.1                      |
| 6                                                    | 11630.00        | 47.6 AV                 | 54.0           | -6.4        | 2.13 V             | 283                  | 38.5             | 9.1                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

**FAP-433G\_Scanning Radio (Test Mode I)**

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5633.60        | 57.3 PK                 | 68.2           | -10.9       | 1.56 H             | 249                  | 53.9             | 3.4                      |
| 2                                                    | *5845.00        | 105.3 PK                |                |             | 1.56 H             | 249                  | 63.7             | 41.6                     |
| 3                                                    | *5845.00        | 96.6 AV                 |                |             | 1.56 H             | 249                  | 55.0             | 41.6                     |
| 4                                                    | #5935.23        | 58.3 PK                 | 88.2           | -29.9       | 1.56 H             | 349                  | 54.3             | 4.0                      |
| 5                                                    | 11690.00        | 57.3 PK                 | 74.0           | -16.7       | 1.36 H             | 222                  | 48.4             | 8.9                      |
| 6                                                    | 11690.00        | 47.4 AV                 | 54.0           | -6.6        | 1.36 H             | 222                  | 38.5             | 8.9                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5604.15        | 59.0 PK                 | 68.2           | -9.2        | 2.64 V             | 276                  | 55.8             | 3.2                      |
| 2                                                    | *5845.00        | 120.7 PK                |                |             | 2.64 V             | 276                  | 79.1             | 41.6                     |
| 3                                                    | *5845.00        | 113.1 AV                |                |             | 2.64 V             | 276                  | 71.5             | 41.6                     |
| 4                                                    | #5932.37        | 67.8 PK                 | 88.2           | -20.4       | 2.64 V             | 276                  | 63.8             | 4.0                      |
| 5                                                    | 11690.00        | 57.4 PK                 | 74.0           | -16.6       | 2.41 V             | 223                  | 48.5             | 8.9                      |
| 6                                                    | 11690.00        | 47.5 AV                 | 54.0           | -6.5        | 2.41 V             | 223                  | 38.6             | 8.9                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5641.68        | 56.7 PK                 | 68.2           | -11.5       | 1.59 H             | 249                  | 53.3             | 3.4                      |
| 2                                                    | *5865.00        | 106.2 PK                |                |             | 1.59 H             | 249                  | 64.6             | 41.6                     |
| 3                                                    | *5865.00        | 96.8 AV                 |                |             | 1.59 H             | 249                  | 55.2             | 41.6                     |
| 4                                                    | #5952.32        | 58.0 PK                 | 88.2           | -30.2       | 1.59 H             | 249                  | 54.0             | 4.0                      |
| 5                                                    | 11730.00        | 57.4 PK                 | 74.0           | -16.6       | 1.64 H             | 252                  | 48.6             | 8.8                      |
| 6                                                    | 11730.00        | 47.3 AV                 | 54.0           | -6.7        | 1.64 H             | 252                  | 38.5             | 8.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5564.25        | 58.9 PK                 | 68.2           | -9.3        | 2.36 V             | 222                  | 56.0             | 2.9                      |
| 2                                                    | *5865.00        | 120.1 PK                |                |             | 2.36 V             | 222                  | 78.5             | 41.6                     |
| 3                                                    | *5865.00        | 111.5 AV                |                |             | 2.36 V             | 222                  | 69.9             | 41.6                     |
| 4                                                    | #5940.45        | 71.4 PK                 | 88.2           | -16.8       | 2.36 V             | 222                  | 67.5             | 3.9                      |
| 5                                                    | 11730.00        | 57.4 PK                 | 74.0           | -16.6       | 2.41 V             | 214                  | 48.6             | 8.8                      |
| 6                                                    | 11730.00        | 47.2 AV                 | 54.0           | -6.8        | 2.41 V             | 214                  | 38.4             | 8.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                            |
|------------------------|----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang     |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5604.15        | 57.2 PK                 | 68.2           | -11.0       | 1.85 H             | 290                  | 54.0             | 3.2                      |
| 2                                                    | *5885.00        | 104.8 PK                |                |             | 1.85 H             | 290                  | 63.3             | 41.5                     |
| 3                                                    | *5885.00        | 96.0 AV                 |                |             | 1.85 H             | 290                  | 54.5             | 41.5                     |
| 4                                                    | #5946.62        | 60.0 PK                 | 88.2           | -28.2       | 1.85 H             | 290                  | 56.0             | 4.0                      |
| 5                                                    | 11770.00        | 57.0 PK                 | 74.0           | -17.0       | 1.66 H             | 225                  | 48.4             | 8.6                      |
| 6                                                    | 11770.00        | 47.0 AV                 | 54.0           | -7.0        | 1.66 H             | 225                  | 38.4             | 8.6                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5620.30        | 59.1 PK                 | 68.2           | -9.1        | 2.30 V             | 244                  | 55.8             | 3.3                      |
| 2                                                    | *5885.00        | 121.3 PK                |                |             | 2.30 V             | 244                  | 79.8             | 41.5                     |
| 3                                                    | *5885.00        | 113.4 AV                |                |             | 2.30 V             | 244                  | 71.9             | 41.5                     |
| 4                                                    | #5927.15        | 81.0 PK                 | 88.2           | -7.2        | 2.30 V             | 244                  | 77.1             | 3.9                      |
| 5                                                    | 11770.00        | 57.0 PK                 | 74.0           | -17.0       | 2.14 V             | 252                  | 48.4             | 8.6                      |
| 6                                                    | 11770.00        | 47.0 AV                 | 54.0           | -7.0        | 2.14 V             | 252                  | 38.4             | 8.6                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 169 : 5845 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5576.60        | 57.5 PK                 | 68.2           | -10.7       | 1.13 H             | 114                  | 54.6             | 2.9                      |
| 2                                                    | *5845.00        | 107.4 PK                |                |             | 1.13 H             | 114                  | 65.8             | 41.6                     |
| 3                                                    | *5845.00        | 98.2 AV                 |                |             | 1.13 H             | 114                  | 56.6             | 41.6                     |
| 4                                                    | #5941.40        | 57.9 PK                 | 88.2           | -30.3       | 1.13 H             | 114                  | 54.0             | 3.9                      |
| 5                                                    | 11690.00        | 57.3 PK                 | 74.0           | -16.7       | 1.23 H             | 152                  | 48.4             | 8.9                      |
| 6                                                    | 11690.00        | 47.4 AV                 | 54.0           | -6.6        | 1.23 H             | 152                  | 38.5             | 8.9                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5638.35        | 58.0 PK                 | 68.2           | -10.2       | 2.32 V             | 205                  | 54.6             | 3.4                      |
| 2                                                    | *5845.00        | 120.2 PK                |                |             | 2.32 V             | 205                  | 78.6             | 41.6                     |
| 3                                                    | *5845.00        | 111.3 AV                |                |             | 2.32 V             | 205                  | 69.7             | 41.6                     |
| 4                                                    | #5926.68        | 66.9 PK                 | 88.2           | -21.3       | 2.32 V             | 205                  | 63.0             | 3.9                      |
| 5                                                    | 11690.00        | 57.4 PK                 | 74.0           | -16.6       | 2.22 V             | 214                  | 48.5             | 8.9                      |
| 6                                                    | 11690.00        | 47.6 AV                 | 54.0           | -6.4        | 2.22 V             | 214                  | 38.7             | 8.9                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 173 : 5865 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5646.90        | 56.6 PK                 | 68.2           | -11.6       | 1.50 H             | 263                  | 53.2             | 3.4                      |
| 2                                                    | *5865.00        | 104.6 PK                |                |             | 1.50 H             | 263                  | 63.0             | 41.6                     |
| 3                                                    | *5865.00        | 95.5 AV                 |                |             | 1.50 H             | 263                  | 53.9             | 41.6                     |
| 4                                                    | #5941.40        | 58.4 PK                 | 88.2           | -29.8       | 1.50 H             | 263                  | 54.5             | 3.9                      |
| 5                                                    | 11730.00        | 57.1 PK                 | 74.0           | -16.9       | 1.66 H             | 221                  | 48.3             | 8.8                      |
| 6                                                    | 11730.00        | 47.0 AV                 | 54.0           | -7.0        | 1.66 H             | 221                  | 38.2             | 8.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5616.50        | 59.0 PK                 | 68.2           | -9.2        | 2.28 V             | 96                   | 55.8             | 3.2                      |
| 2                                                    | *5865.00        | 120.0 PK                |                |             | 2.28 V             | 96                   | 78.4             | 41.6                     |
| 3                                                    | *5865.00        | 110.9 AV                |                |             | 2.28 V             | 96                   | 69.3             | 41.6                     |
| 4                                                    | #5926.68        | 73.6 PK                 | 88.2           | -14.6       | 2.28 V             | 96                   | 69.7             | 3.9                      |
| 5                                                    | 11730.00        | 57.2 PK                 | 74.0           | -16.8       | 2.14 V             | 66                   | 48.4             | 8.8                      |
| 6                                                    | 11730.00        | 47.3 AV                 | 54.0           | -6.7        | 2.14 V             | 66                   | 38.5             | 8.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE20) | <b>Channel</b>                           | CH 177 : 5885 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5634.55        | 57.3 PK                 | 68.2           | -10.9       | 2.37 H             | 289                  | 53.9             | 3.4                      |
| 2                                                    | *5885.00        | 106.0 PK                |                |             | 2.37 H             | 289                  | 64.5             | 41.5                     |
| 3                                                    | *5885.00        | 97.2 AV                 |                |             | 2.37 H             | 289                  | 55.7             | 41.5                     |
| 4                                                    | #5930.95        | 66.2 PK                 | 88.2           | -22.0       | 2.37 H             | 289                  | 62.2             | 4.0                      |
| 5                                                    | 11770.00        | 57.0 PK                 | 74.0           | -17.0       | 2.11 H             | 241                  | 48.4             | 8.6                      |
| 6                                                    | 11770.00        | 47.0 AV                 | 54.0           | -7.0        | 2.11 H             | 241                  | 38.4             | 8.6                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5606.05        | 57.0 PK                 | 68.2           | -11.2       | 2.46 V             | 221                  | 53.8             | 3.2                      |
| 2                                                    | *5885.00        | 117.3 PK                |                |             | 2.46 V             | 221                  | 75.8             | 41.5                     |
| 3                                                    | *5885.00        | 111.1 AV                |                |             | 2.46 V             | 221                  | 69.6             | 41.5                     |
| 4                                                    | #5934.27        | 76.2 PK                 | 88.2           | -12.0       | 2.46 V             | 221                  | 72.2             | 4.0                      |
| 5                                                    | 11770.00        | 57.0 PK                 | 74.0           | -17.0       | 2.44 V             | 222                  | 48.4             | 8.6                      |
| 6                                                    | 11770.00        | 47.1 AV                 | 54.0           | -6.9        | 2.44 V             | 222                  | 38.5             | 8.6                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 167 : 5835 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5639.77        | 57.3 PK                 | 68.2           | -10.9       | 1.09 H             | 116                  | 53.9             | 3.4                      |
| 2                                                    | *5835.00        | 104.6 PK                |                |             | 1.09 H             | 116                  | 63.0             | 41.6                     |
| 3                                                    | *5835.00        | 96.3 AV                 |                |             | 1.09 H             | 116                  | 54.7             | 41.6                     |
| 4                                                    | #5928.10        | 60.6 PK                 | 88.2           | -27.6       | 1.09 H             | 116                  | 56.6             | 4.0                      |
| 5                                                    | 11670.00        | 57.3 PK                 | 74.0           | -16.7       | 1.11 H             | 152                  | 48.4             | 8.9                      |
| 6                                                    | 11670.00        | 47.4 AV                 | 54.0           | -6.6        | 1.11 H             | 152                  | 38.5             | 8.9                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5645.00        | 61.0 PK                 | 68.2           | -7.2        | 2.44 V             | 271                  | 57.6             | 3.4                      |
| 2                                                    | *5835.00        | 118.7 PK                |                |             | 2.44 V             | 271                  | 77.1             | 41.6                     |
| 3                                                    | *5835.00        | 110.0 AV                |                |             | 2.44 V             | 271                  | 68.4             | 41.6                     |
| 4                                                    | #5929.52        | 72.2 PK                 | 88.2           | -16.0       | 2.44 V             | 271                  | 68.2             | 4.0                      |
| 5                                                    | 11670.00        | 57.3 PK                 | 74.0           | -16.7       | 2.55 V             | 214                  | 48.4             | 8.9                      |
| 6                                                    | 11670.00        | 47.3 AV                 | 54.0           | -6.7        | 2.55 V             | 214                  | 38.4             | 8.9                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE40) | <b>Channel</b>                           | CH 175 : 5875 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5640.25        | 56.1 PK                 | 68.2           | -12.1       | 1.02 H             | 113                  | 52.7             | 3.4                      |
| 2                                                    | *5875.00        | 102.2 PK                |                |             | 1.02 H             | 113                  | 60.7             | 41.5                     |
| 3                                                    | *5875.00        | 93.2 AV                 |                |             | 1.02 H             | 113                  | 51.7             | 41.5                     |
| 4                                                    | #5930.00        | 71.9 PK                 | 88.2           | -16.3       | 1.02 H             | 113                  | 67.9             | 4.0                      |
| 5                                                    | 11750.00        | 57.1 PK                 | 74.0           | -16.9       | 1.11 H             | 125                  | 48.4             | 8.7                      |
| 6                                                    | 11750.00        | 47.1 AV                 | 54.0           | -6.9        | 1.11 H             | 125                  | 38.4             | 8.7                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5560.45        | 59.1 PK                 | 68.2           | -9.1        | 2.49 V             | 261                  | 56.2             | 2.9                      |
| 2                                                    | *5875.00        | 118.0 PK                |                |             | 2.49 V             | 261                  | 76.5             | 41.5                     |
| 3                                                    | *5875.00        | 107.1 AV                |                |             | 2.49 V             | 261                  | 65.6             | 41.5                     |
| 4                                                    | #5927.62        | 86.2 PK                 | 88.2           | -2.0        | 2.49 V             | 261                  | 82.3             | 3.9                      |
| 5                                                    | 11750.00        | 57.1 PK                 | 74.0           | -16.9       | 2.41 V             | 214                  | 48.4             | 8.7                      |
| 6                                                    | 11750.00        | 47.1 AV                 | 54.0           | -6.9        | 2.41 V             | 214                  | 38.4             | 8.7                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                 |                                          |                                                            |
|------------------------|-----------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE80) | <b>Channel</b>                           | CH 171 : 5855 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz  | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz  | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang      |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5643.57        | 59.8 PK                 | 68.2           | -8.4        | 1.11 H             | 116                  | 56.4             | 3.4                      |
| 2                                                    | *5855.00        | 101.0 PK                |                |             | 1.11 H             | 116                  | 59.4             | 41.6                     |
| 3                                                    | *5855.00        | 92.5 AV                 |                |             | 1.11 H             | 116                  | 50.9             | 41.6                     |
| 4                                                    | #5932.37        | 79.9 PK                 | 88.2           | -8.3        | 1.11 H             | 116                  | 75.9             | 4.0                      |
| 5                                                    | 11710.00        | 57.2 PK                 | 74.0           | -16.8       | 1.22 H             | 163                  | 48.4             | 8.8                      |
| 6                                                    | 11710.00        | 47.2 AV                 | 54.0           | -6.8        | 1.22 H             | 163                  | 38.4             | 8.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5638.82        | 65.2 PK                 | 68.2           | -3.0        | 1.13 V             | 113                  | 61.8             | 3.4                      |
| 2                                                    | *5855.00        | 108.0 PK                |                |             | 1.13 V             | 113                  | 66.4             | 41.6                     |
| 3                                                    | *5855.00        | 98.0 AV                 |                |             | 1.13 V             | 113                  | 56.4             | 41.6                     |
| 4                                                    | #5931.43        | 87.7 PK                 | 88.2           | -0.5        | 1.13 V             | 113                  | 83.7             | 4.0                      |
| 5                                                    | 11710.00        | 57.2 PK                 | 74.0           | -16.8       | 1.18 V             | 163                  | 48.4             | 8.8                      |
| 6                                                    | 11710.00        | 47.2 AV                 | 54.0           | -6.8        | 1.18 V             | 163                  | 38.4             | 8.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                  |                                          |                                                            |
|------------------------|------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11ax (HE160) | <b>Channel</b>                           | CH 163 : 5815 MHz                                          |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz   | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power</b>     | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>          | 24°C, 65% RH                                               |
| <b>Tested By</b>       | Wade Huang       |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5640.25        | 60.2 PK                 | 68.2           | -8.0        | 1.00 H             | 116                  | 56.8             | 3.4                      |
| 2                                                    | *5815.00        | 95.4 PK                 |                |             | 1.00 H             | 116                  | 53.8             | 41.6                     |
| 3                                                    | *5815.00        | 86.2 AV                 |                |             | 1.00 H             | 116                  | 44.6             | 41.6                     |
| 4                                                    | #5950.90        | 64.7 PK                 | 88.2           | -23.5       | 1.00 H             | 116                  | 60.7             | 4.0                      |
| 5                                                    | 11630.00        | 57.5 PK                 | 74.0           | -16.5       | 1.21 H             | 163                  | 48.4             | 9.1                      |
| 6                                                    | 11630.00        | 47.6 AV                 | 54.0           | -6.4        | 1.21 H             | 163                  | 38.5             | 9.1                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5647.37        | 68.0 PK                 | 68.2           | -0.2        | 2.46 V             | 287                  | 64.5             | 3.5                      |
| 2                                                    | *5815.00        | 107.8 PK                |                |             | 2.46 V             | 287                  | 66.2             | 41.6                     |
| 3                                                    | *5815.00        | 98.6 AV                 |                |             | 2.46 V             | 287                  | 57.0             | 41.6                     |
| 4                                                    | #5929.05        | 74.0 PK                 | 88.2           | -14.2       | 2.46 V             | 287                  | 70.0             | 4.0                      |
| 5                                                    | 11630.00        | 57.5 PK                 | 74.0           | -16.5       | 2.22 V             | 214                  | 48.4             | 9.1                      |
| 6                                                    | 11630.00        | 47.6 AV                 | 54.0           | -6.4        | 2.22 V             | 214                  | 38.5             | 9.1                      |

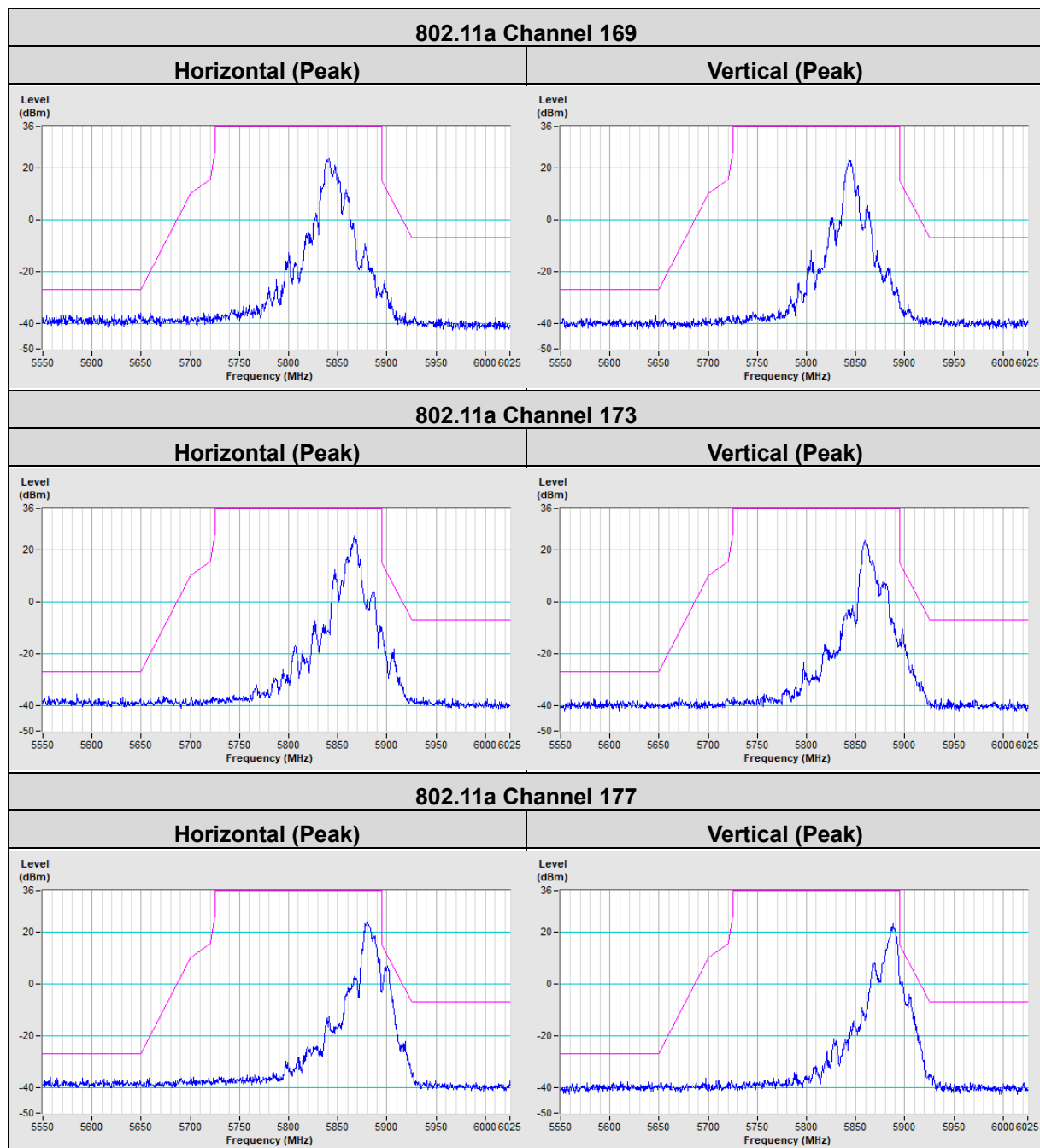
**Remarks:**

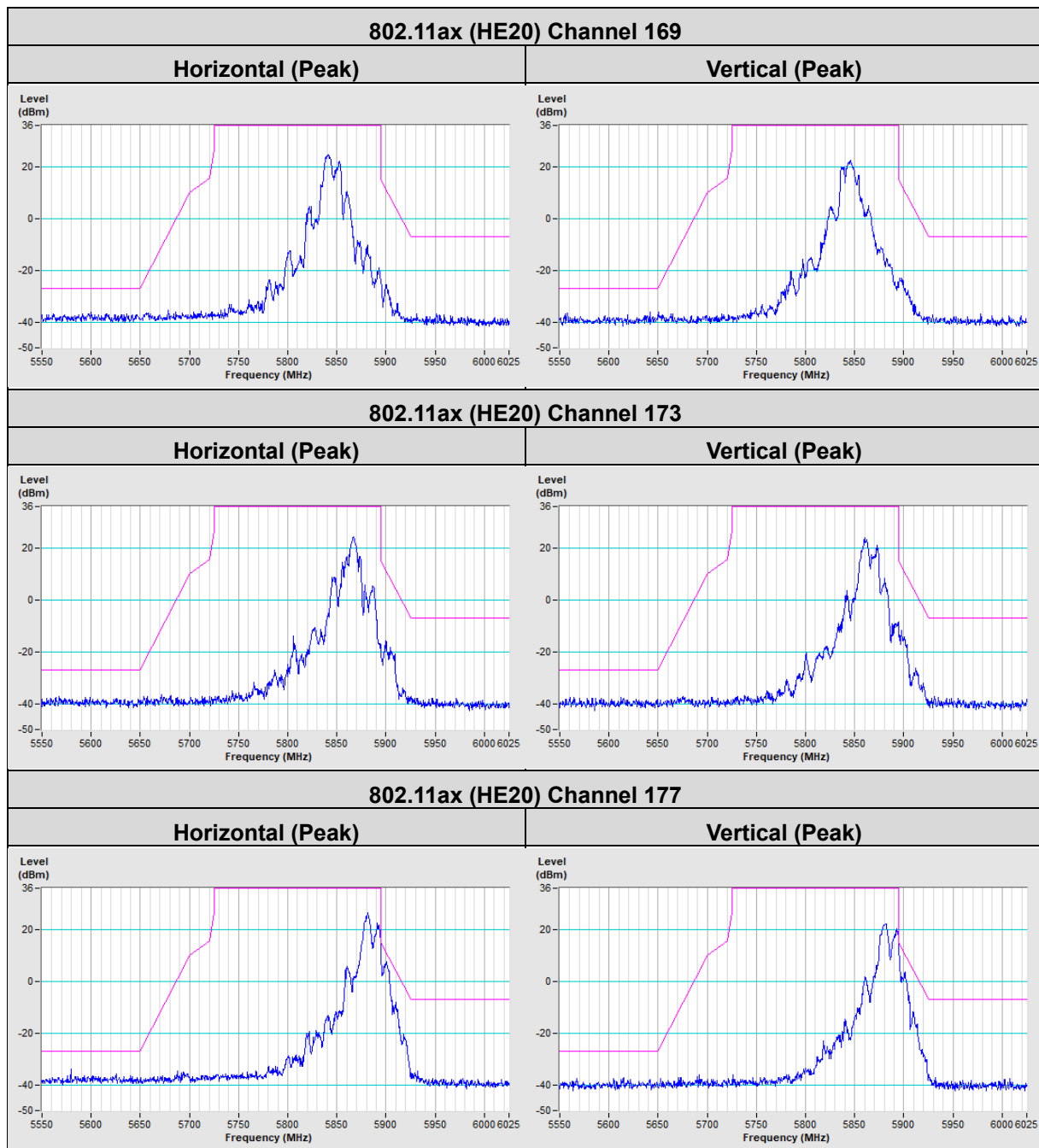
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

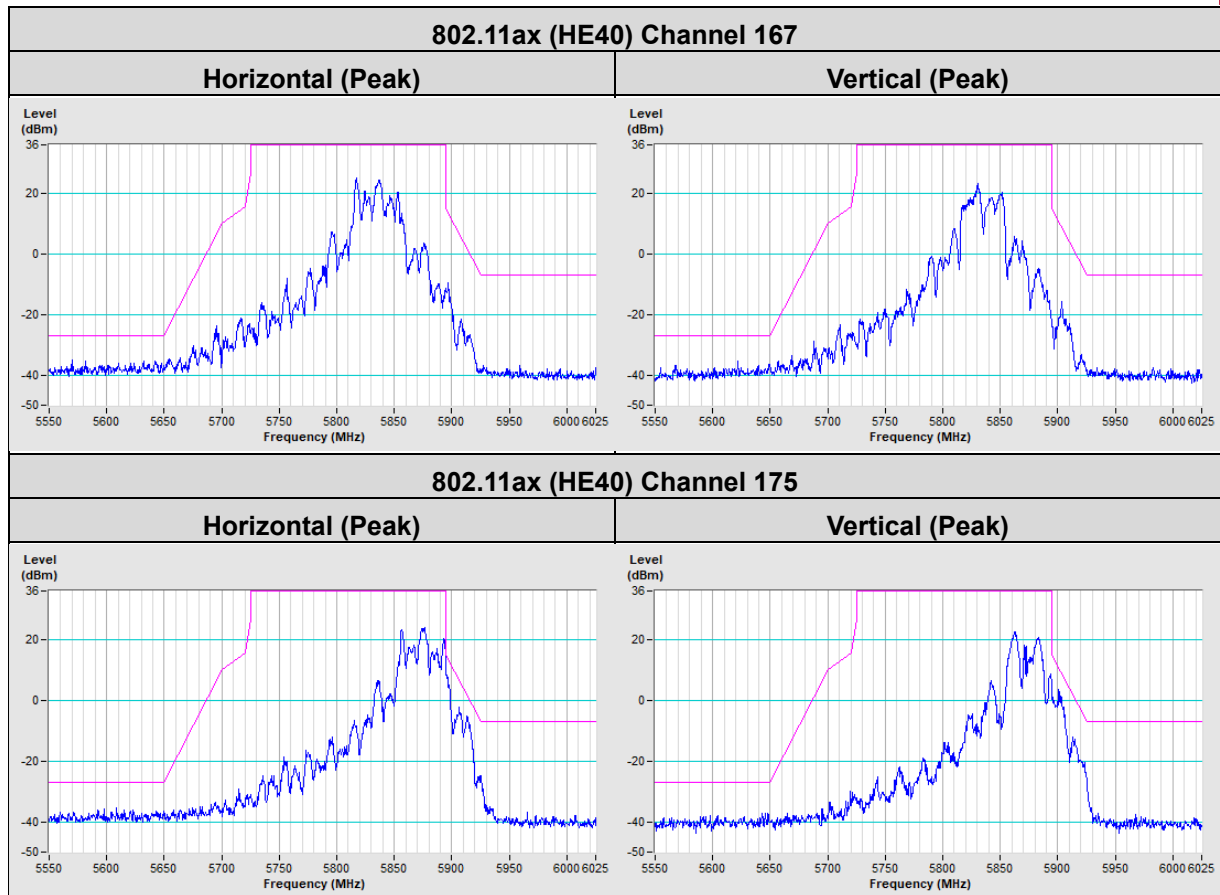
## Band Edge

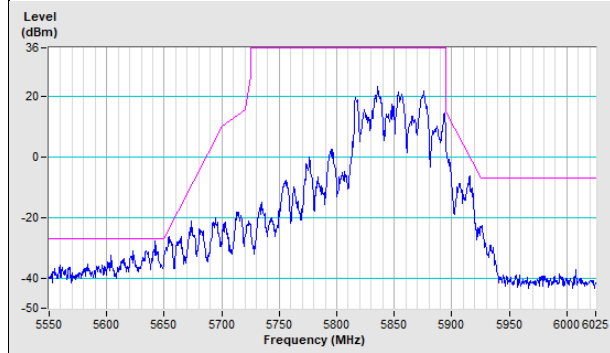
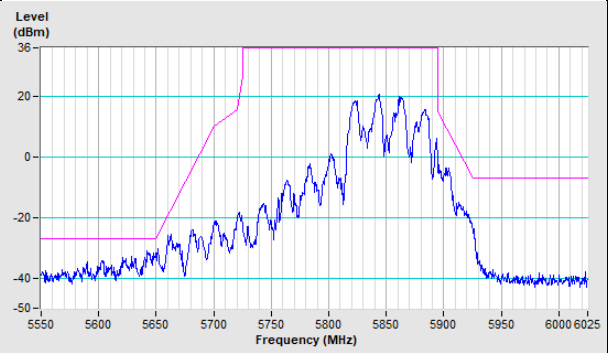
### FAP-431G\_Radio 2 (Test Mode A)

|                                          |                                                                  |
|------------------------------------------|------------------------------------------------------------------|
| <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 3 MHz (RMS) |
|------------------------------------------|------------------------------------------------------------------|







**802.11ax (HE80) Channel 171****Horizontal (Peak)****Vertical (Peak)**

# FAP-431G\_Radio 3 (Test Mode C)

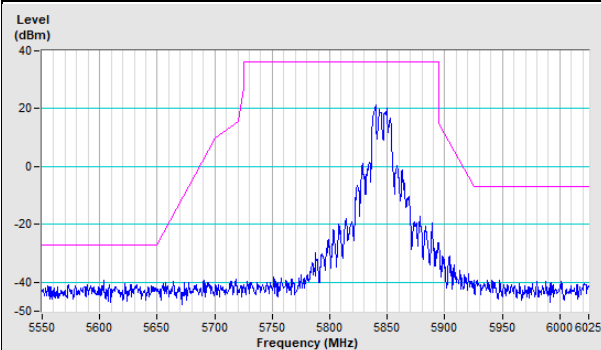
## Detector Function & Bandwidth

(PK) RB = 1 MHz, VB = 3 MHz

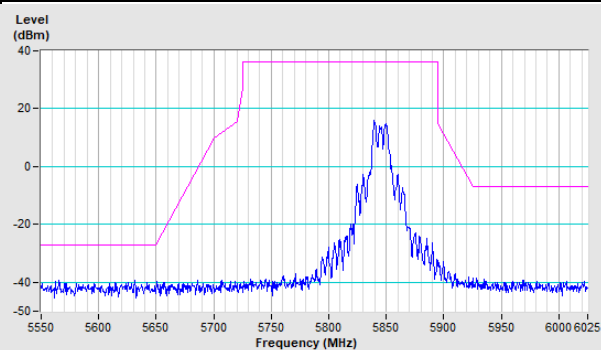
(AV) RB = 1 MHz, VB = 3 MHz (RMS)

### 802.11a Channel 169

#### Horizontal (Peak)

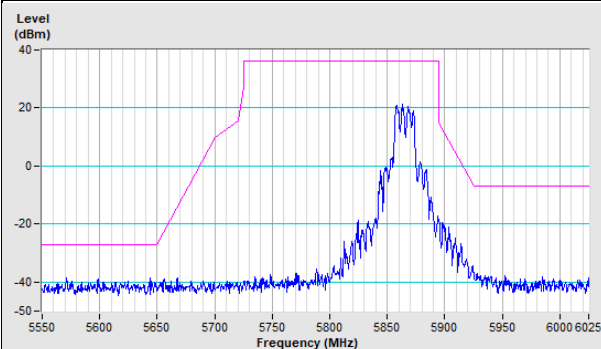


#### Vertical (Peak)

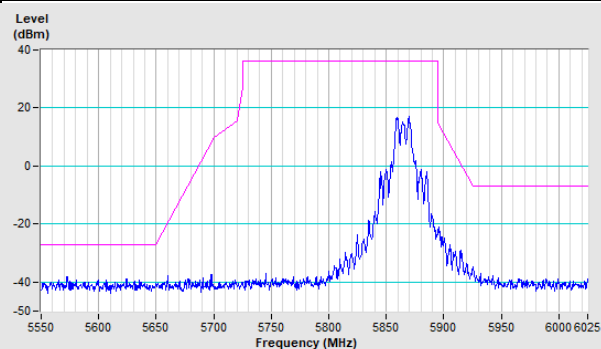


### 802.11a Channel 173

#### Horizontal (Peak)

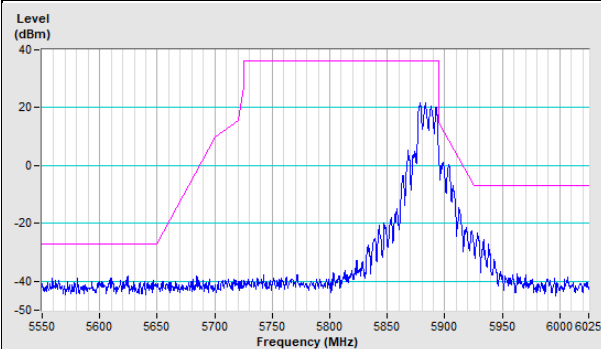


#### Vertical (Peak)

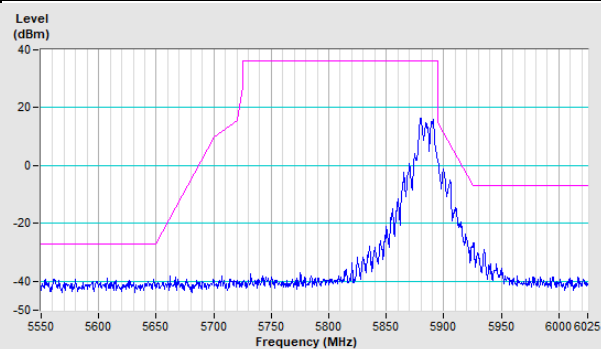


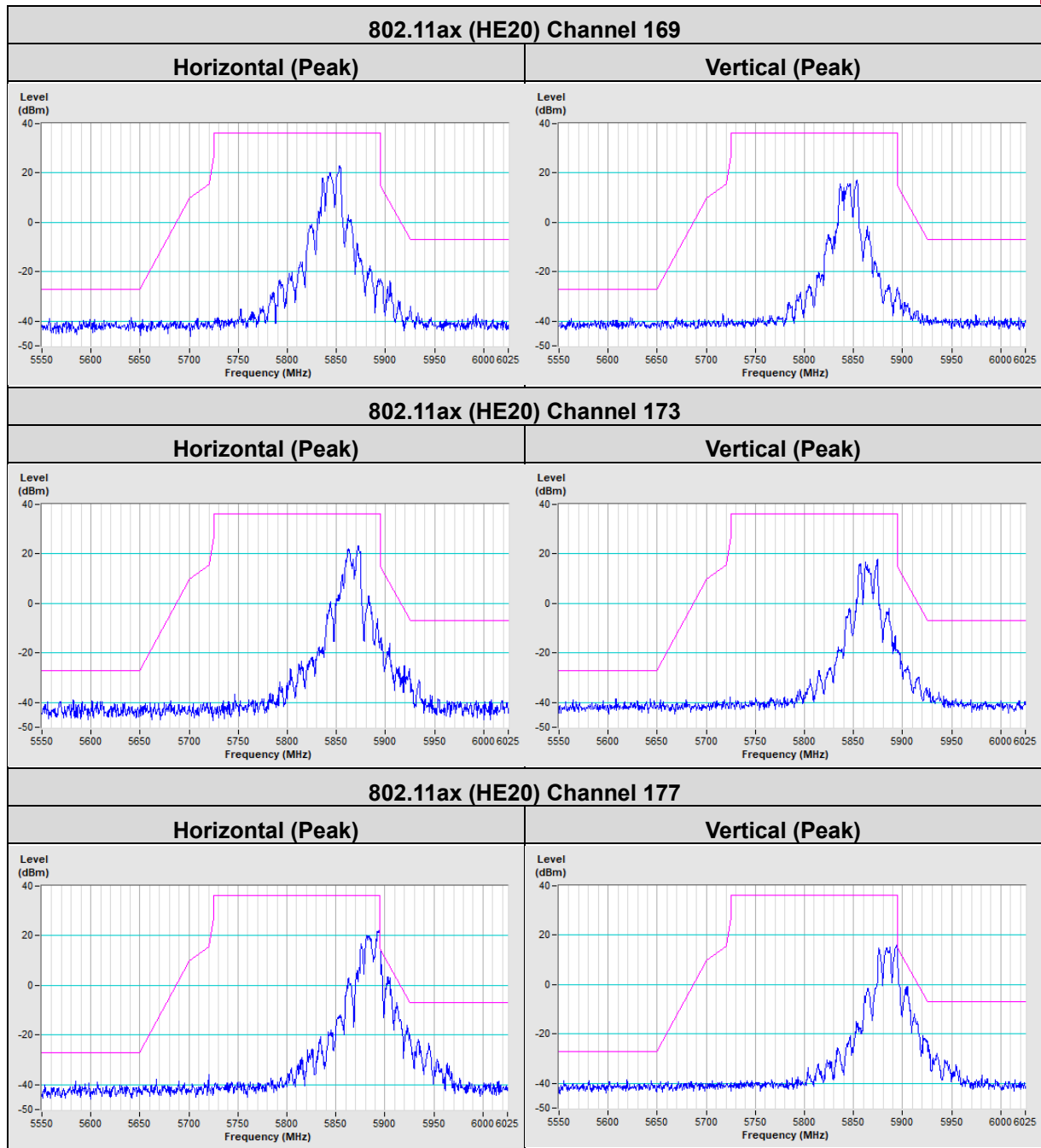
### 802.11a Channel 177

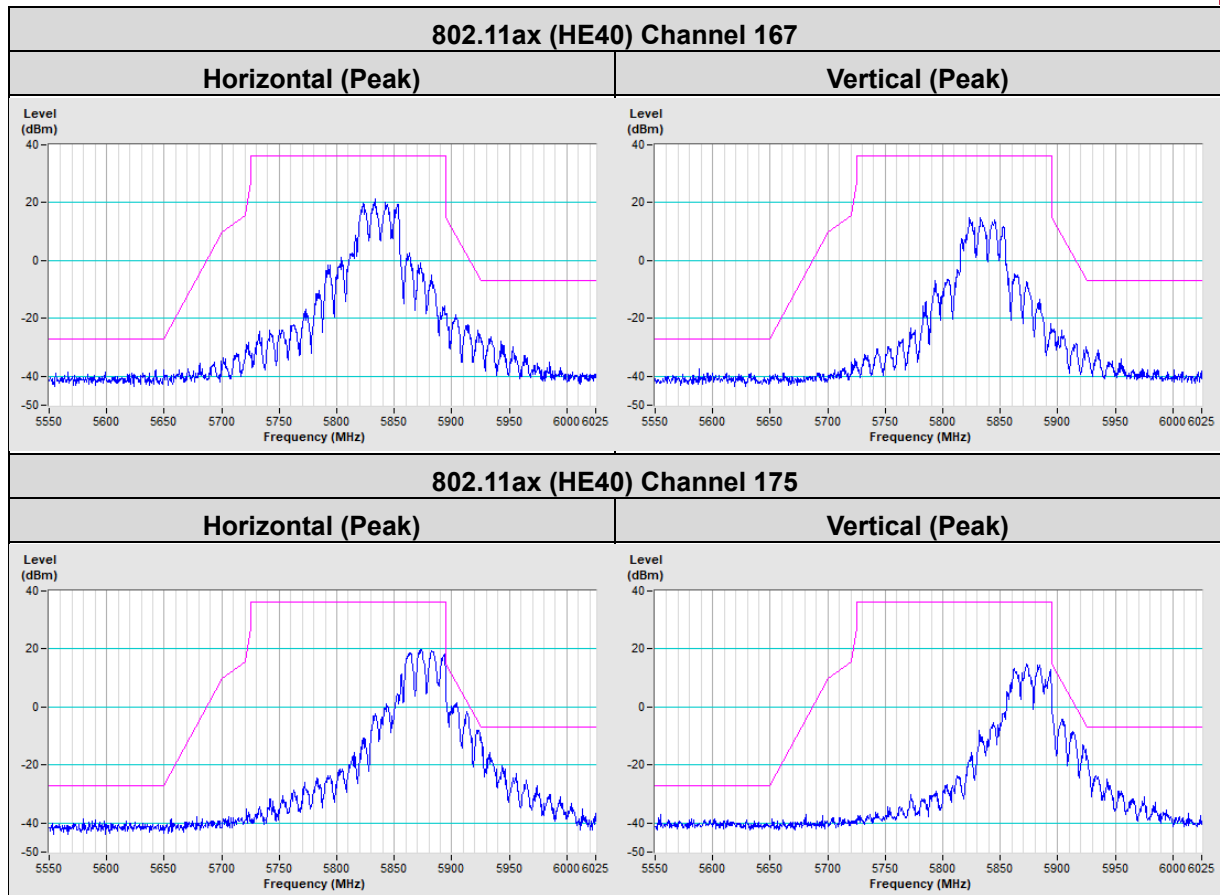
#### Horizontal (Peak)

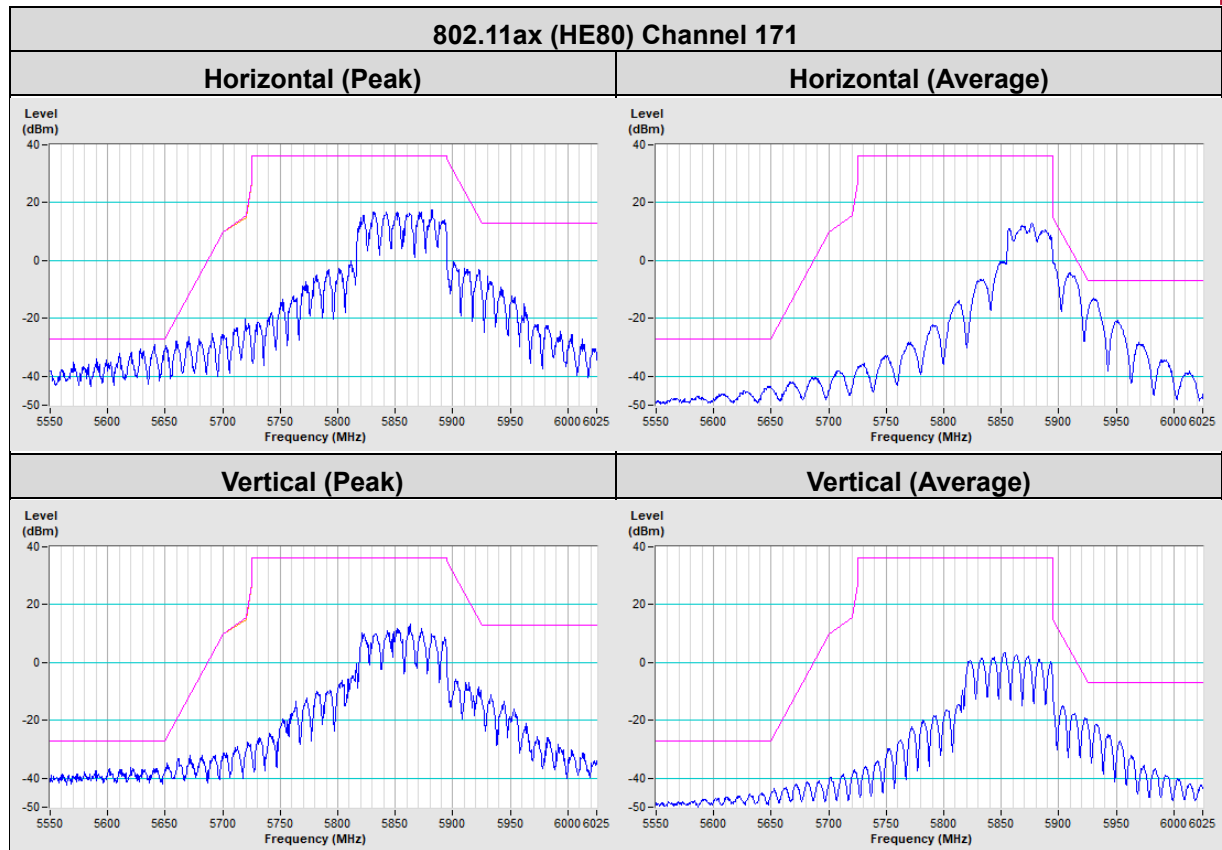


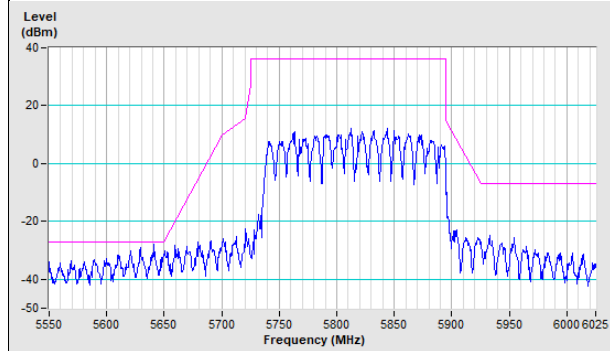
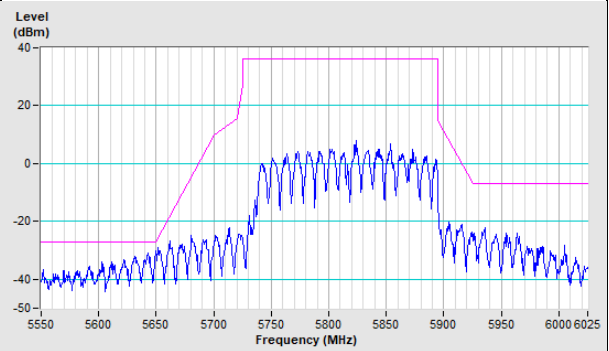
#### Vertical (Peak)









**802.11ax (HE160) Channel 163****Horizontal (Peak)****Vertical (Peak)**

# FAP-431G\_Scanning Radio (Test Mode E)

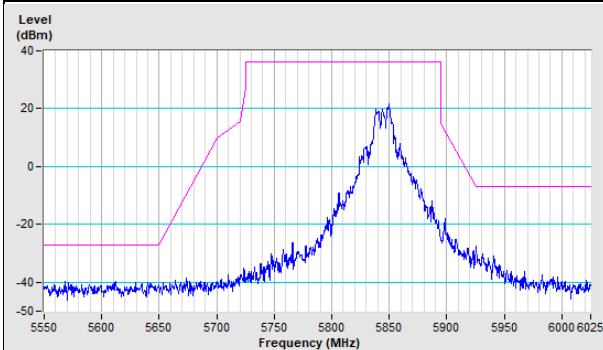
## Detector Function & Bandwidth

(PK) RB = 1 MHz, VB = 3 MHz

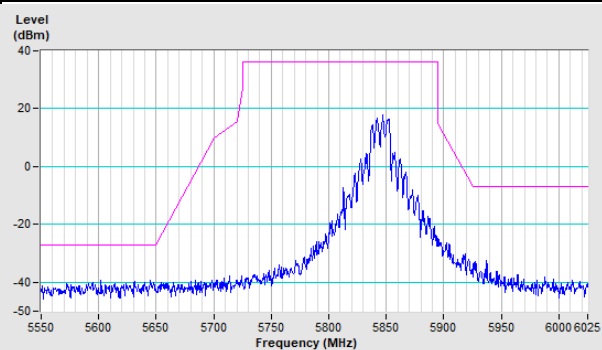
(AV) RB = 1 MHz, VB = 3 MHz (RMS)

### 802.11a Channel 169

#### Horizontal (Peak)

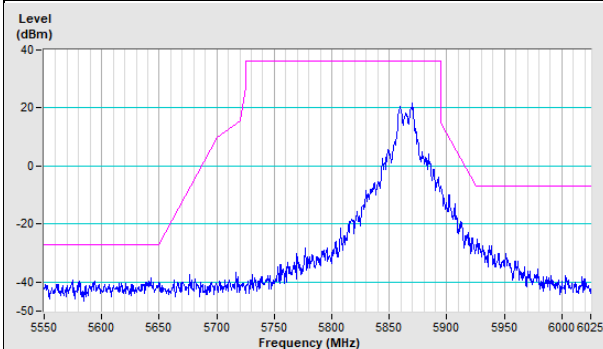


#### Vertical (Peak)

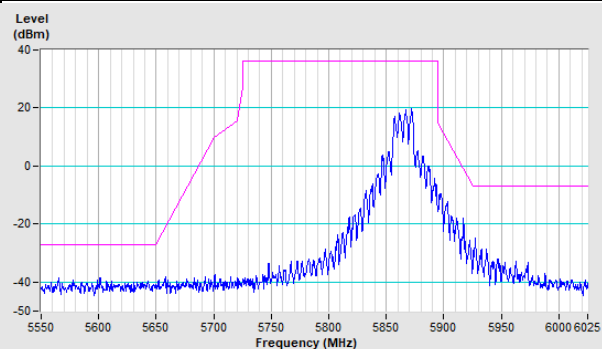


### 802.11a Channel 173

#### Horizontal (Peak)

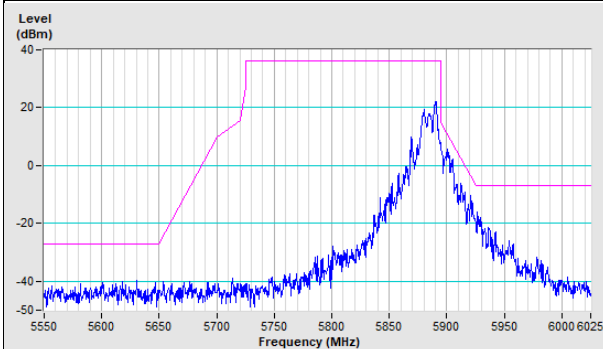


#### Vertical (Peak)

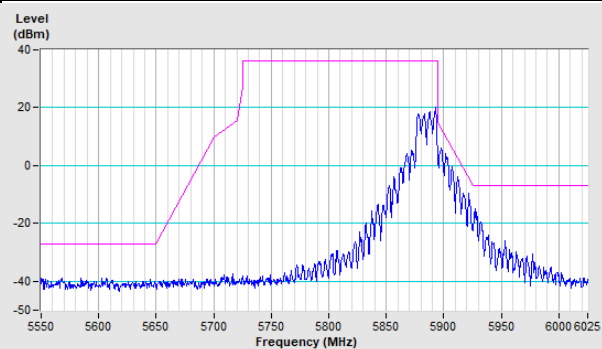


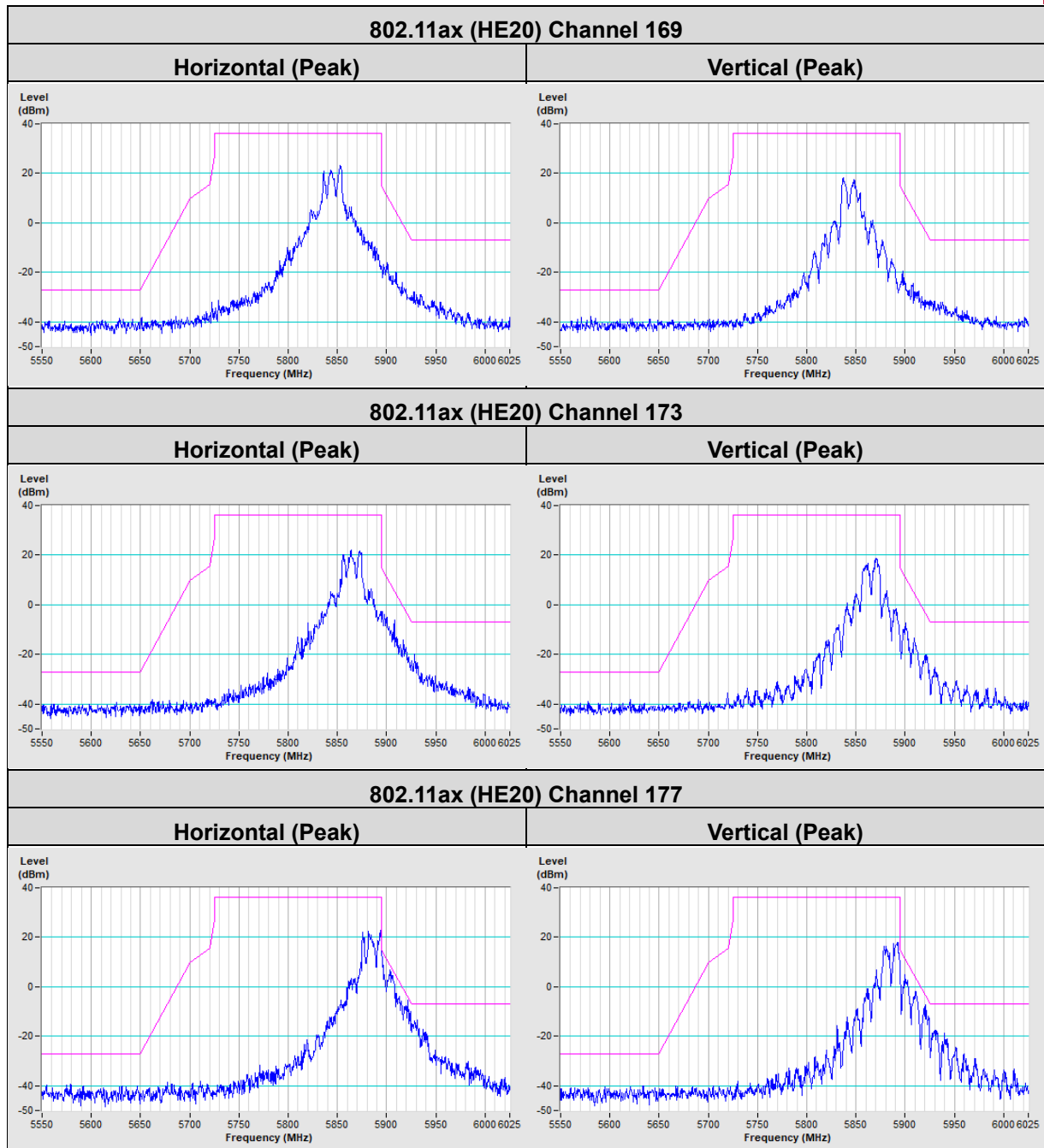
### 802.11a Channel 177

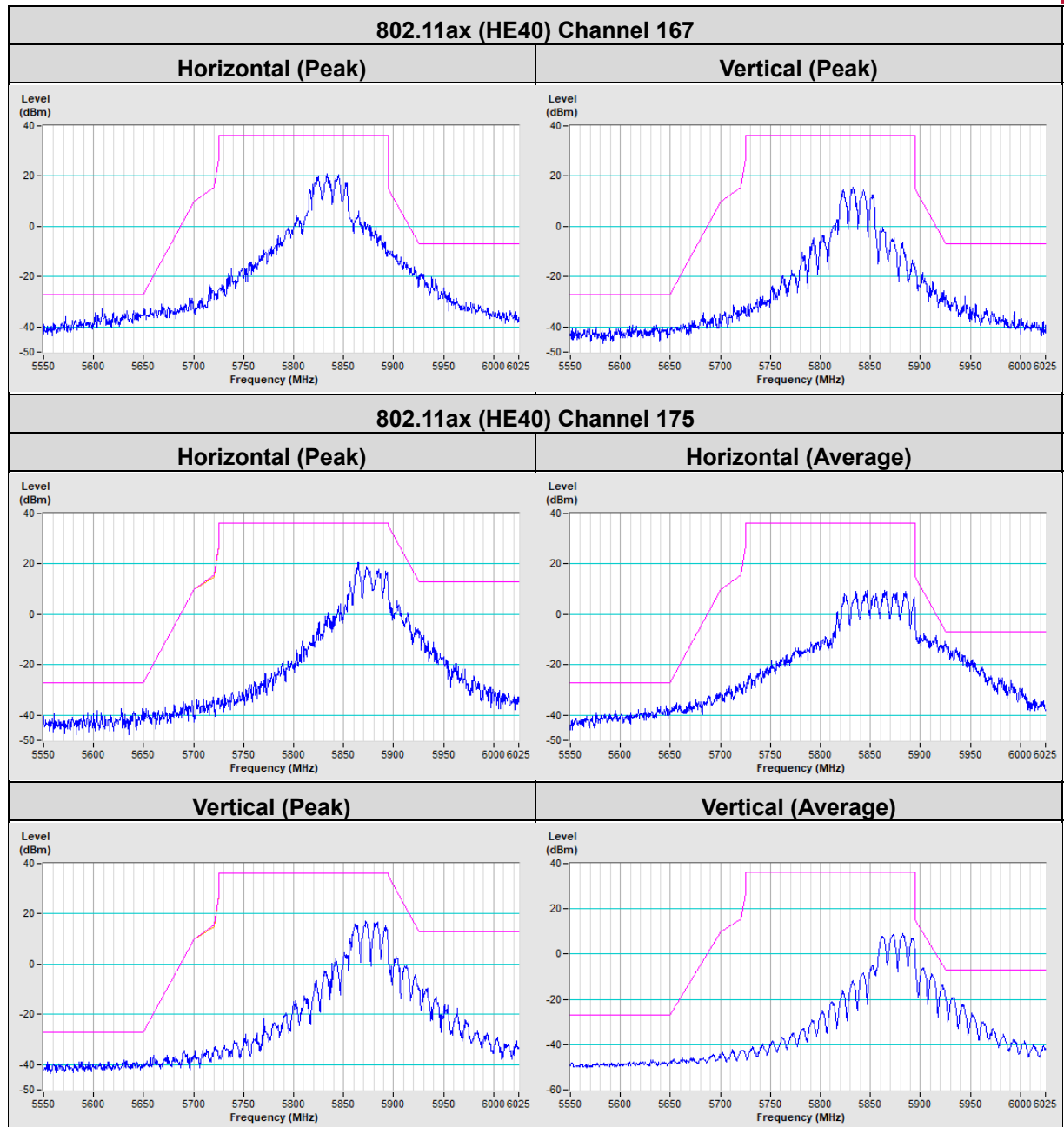
#### Horizontal (Peak)

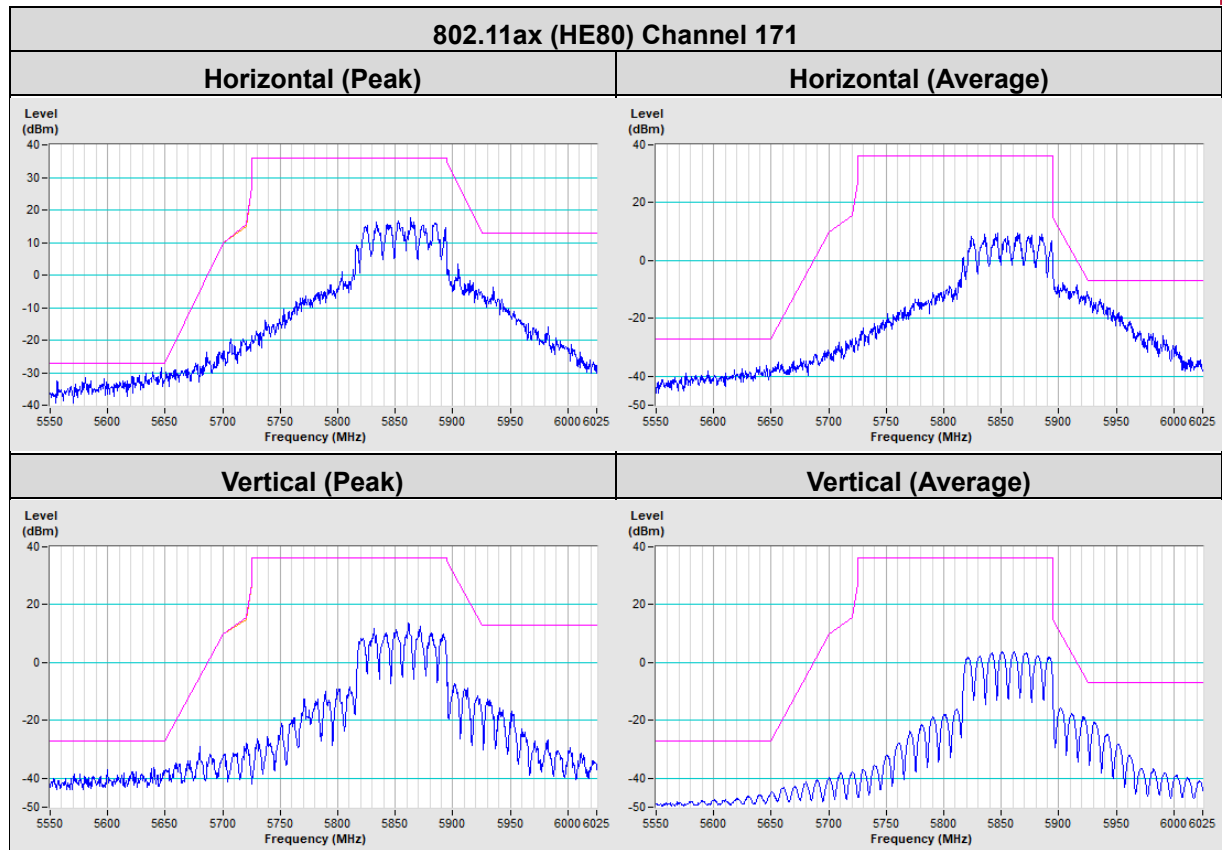


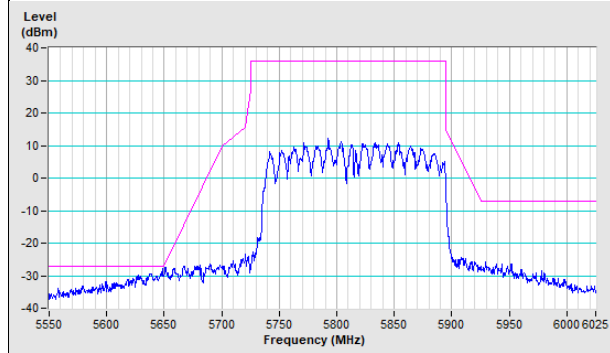
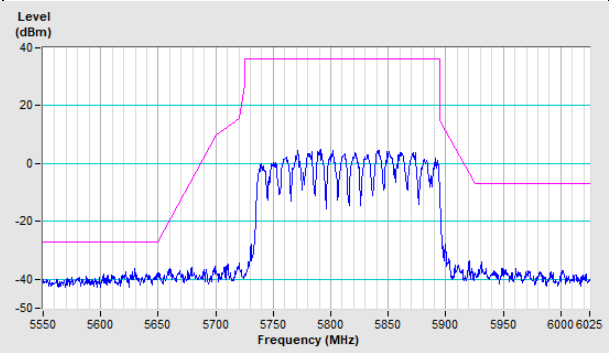
#### Vertical (Peak)





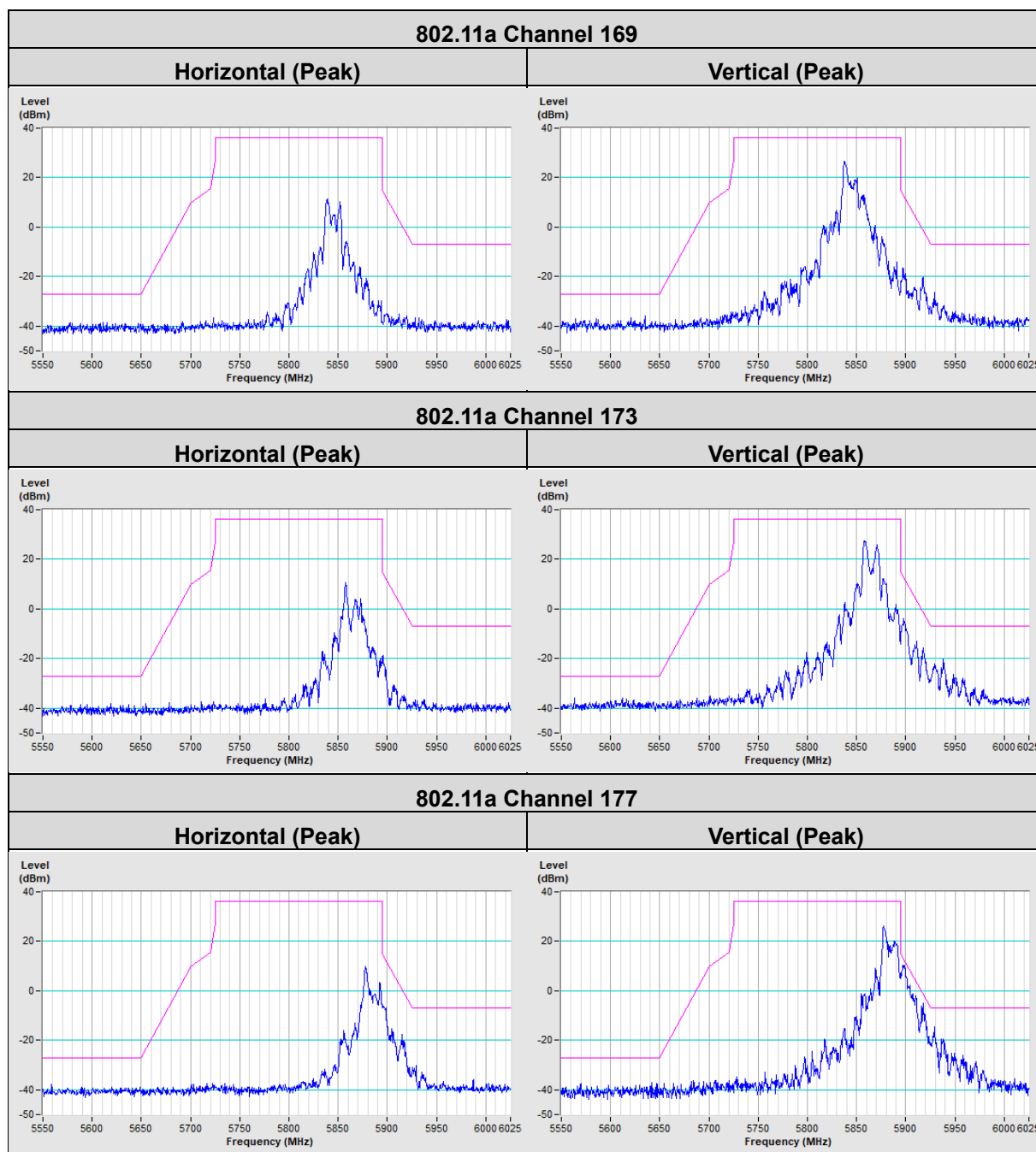


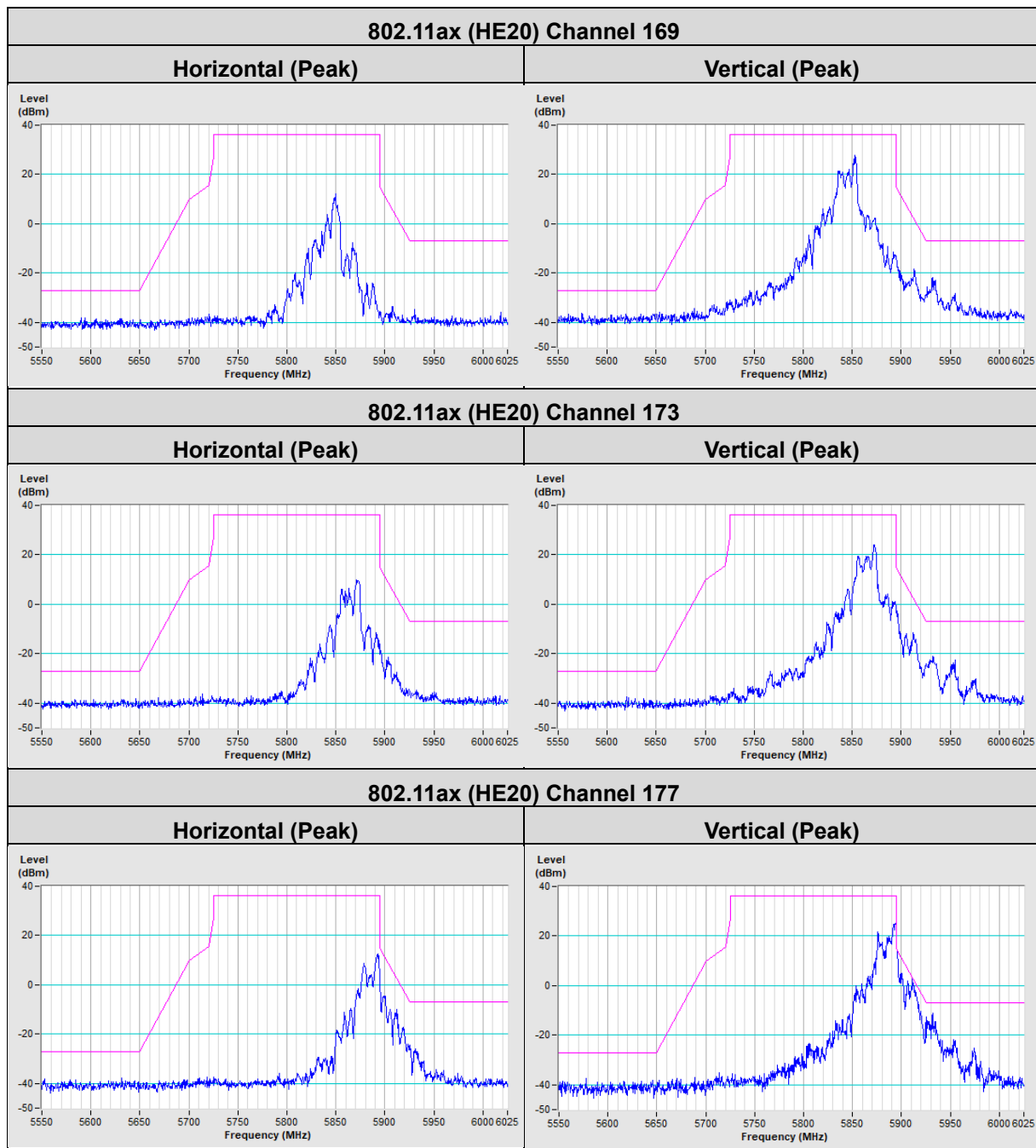


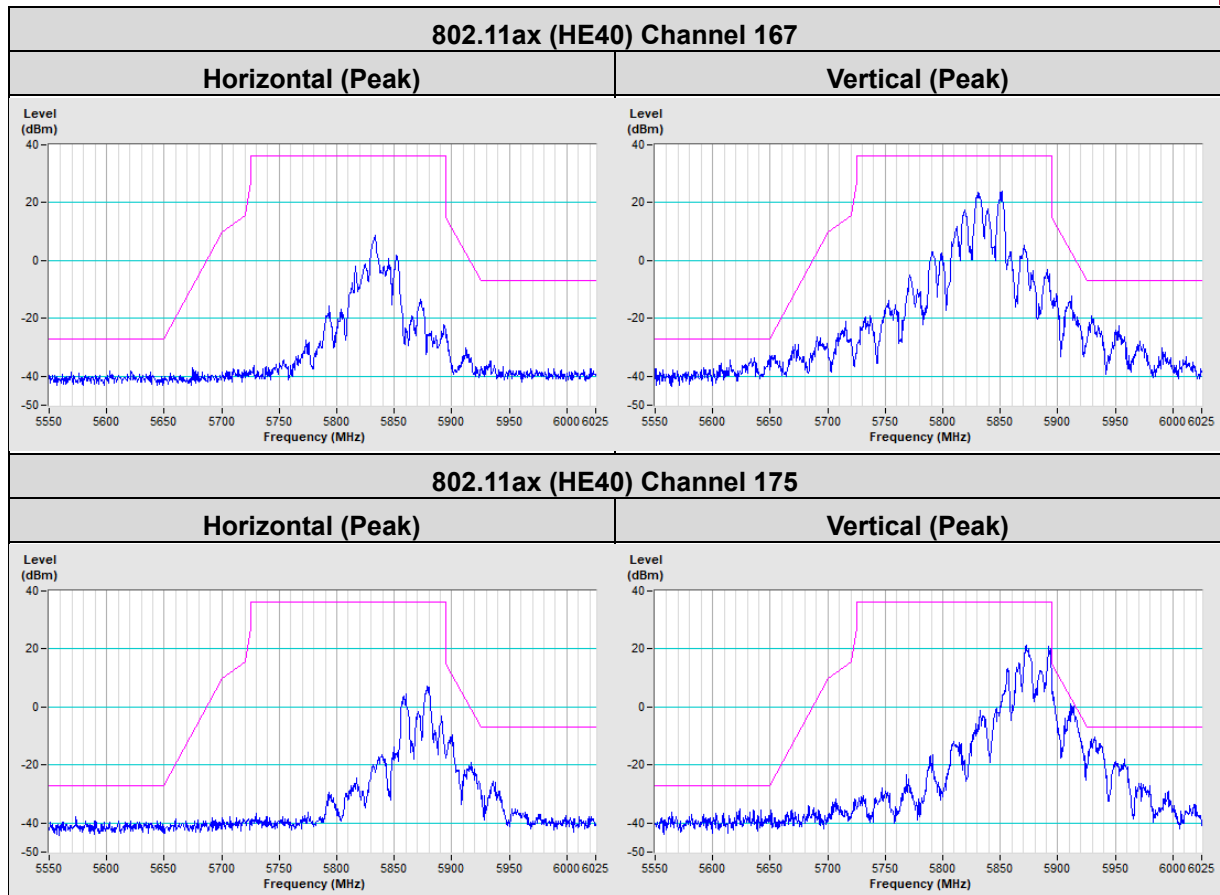
**802.11ax (HE160) Channel 163****Horizontal (Peak)****Vertical (Peak)**

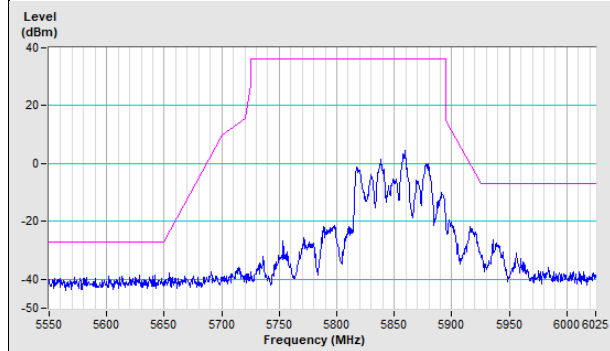
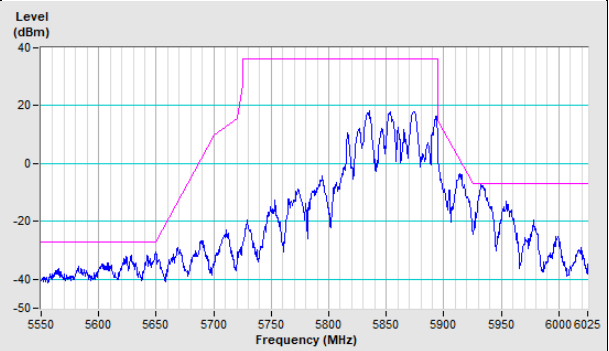
# FAP-433G\_Radio 3 (Test Mode G)

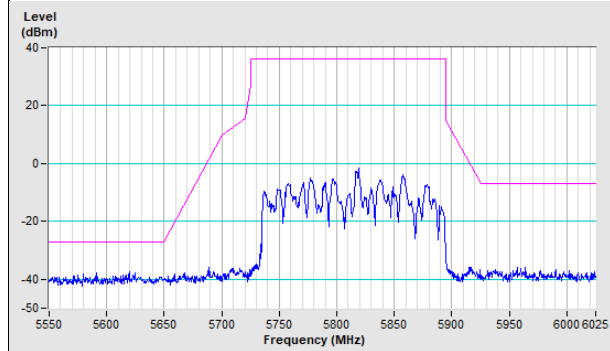
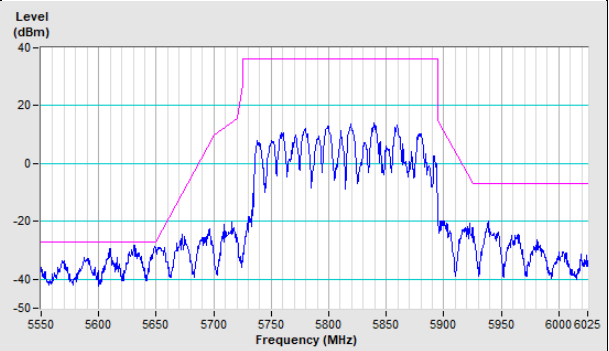
|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 3 MHz (RMS) |
|-------------------------------|------------------------------------------------------------------|







**802.11ax (HE80) Channel 171****Horizontal (Peak)****Vertical (Peak)**

**802.11ax (HE160) Channel 163****Horizontal (Peak)****Vertical (Peak)**

# FAP-433G\_Scanning Radio (Test Mode I)

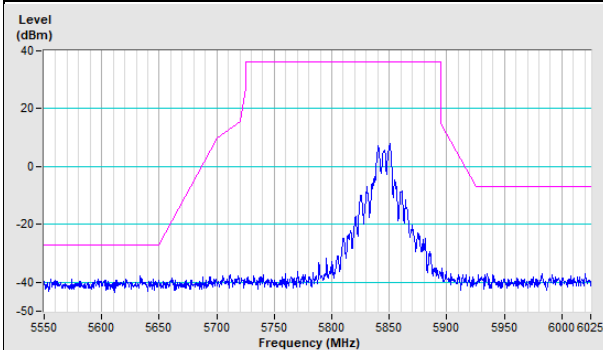
## Detector Function & Bandwidth

(PK) RB = 1 MHz, VB = 3 MHz

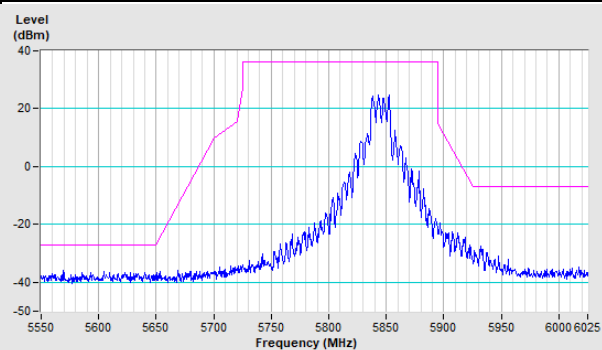
(AV) RB = 1 MHz, VB = 3 MHz (RMS)

### 802.11a Channel 169

#### Horizontal (Peak)

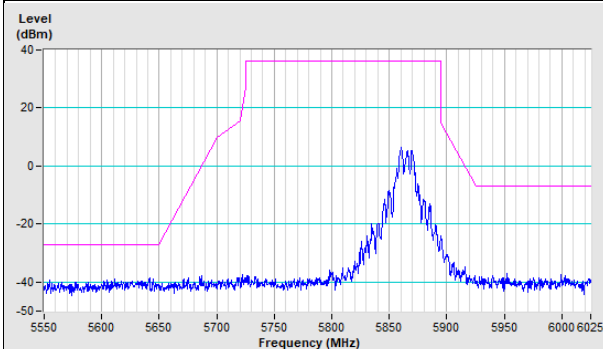


#### Vertical (Peak)

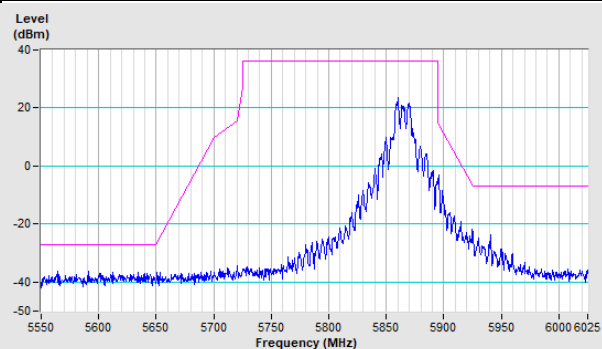


### 802.11a Channel 173

#### Horizontal (Peak)

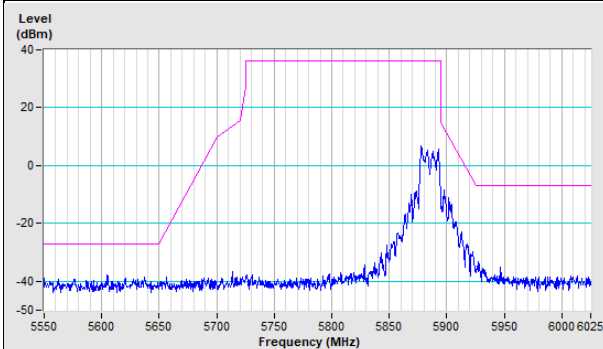


#### Vertical (Peak)

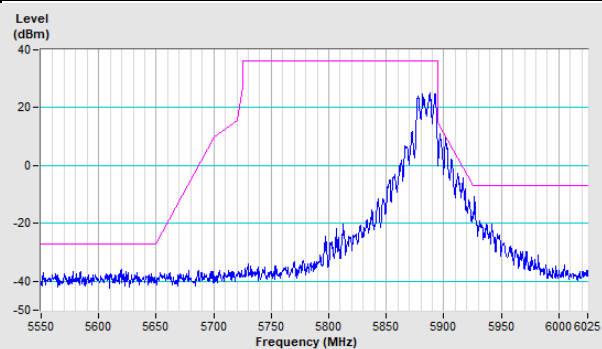


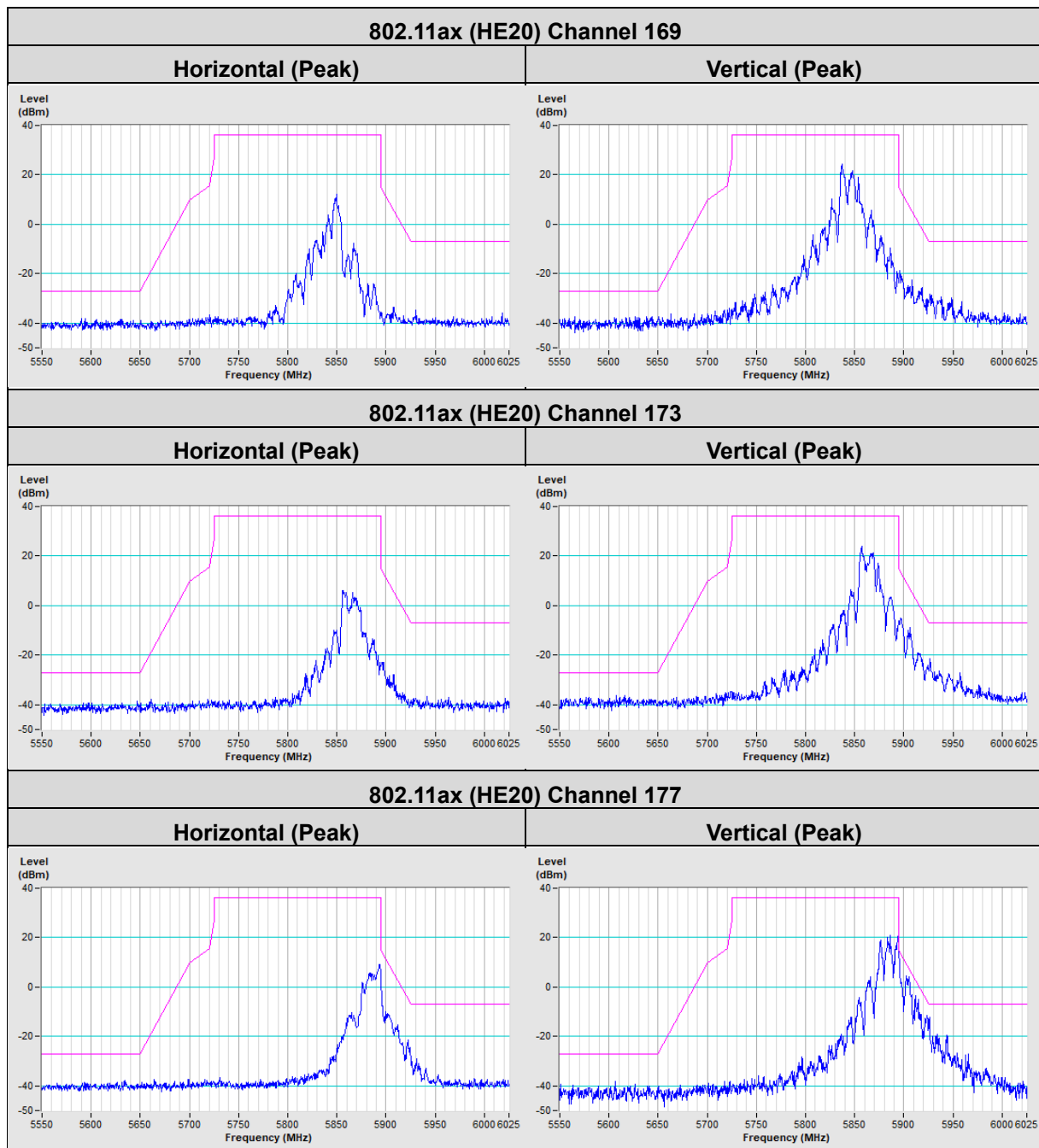
### 802.11a Channel 177

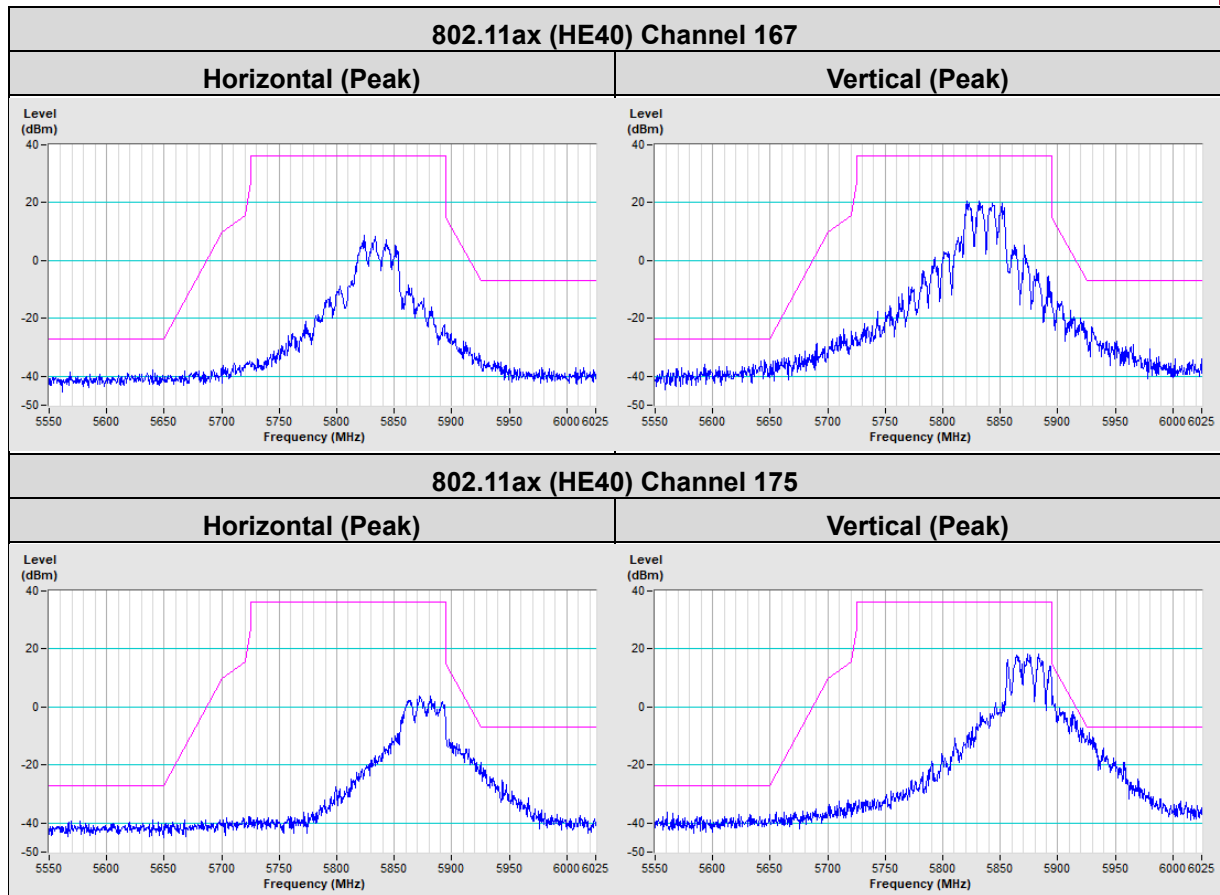
#### Horizontal (Peak)

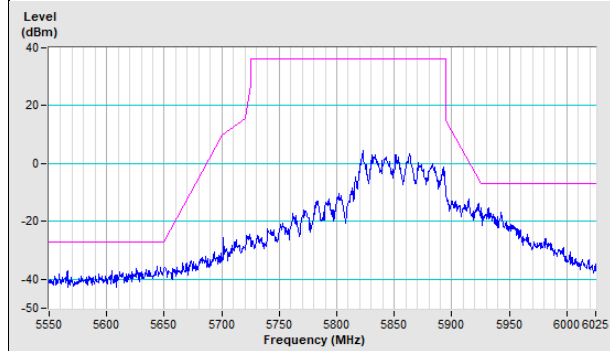
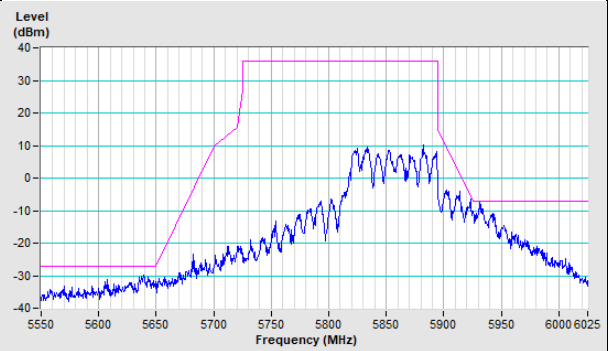


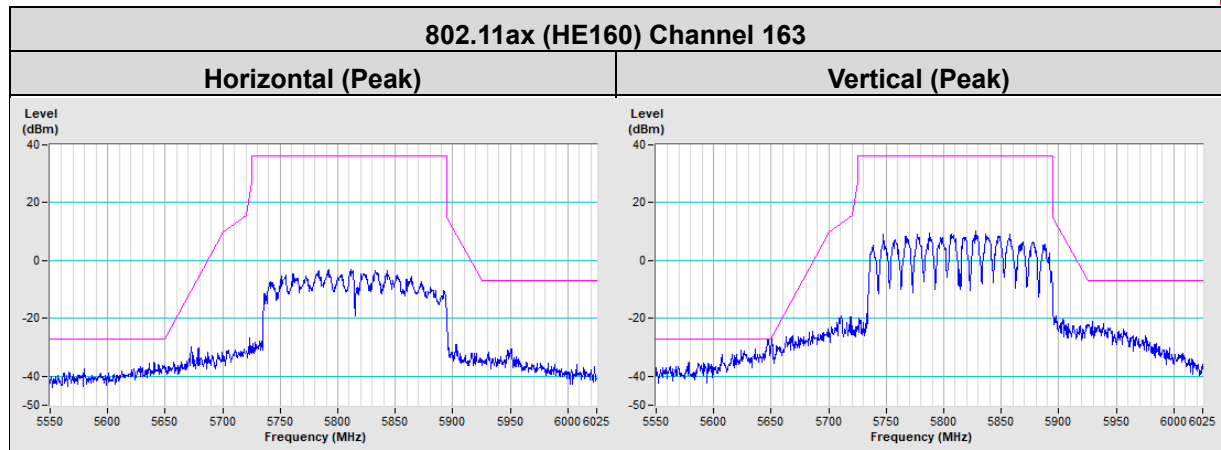
#### Vertical (Peak)







**802.11ax (HE80) Channel 171****Horizontal (Peak)****Vertical (Peak)**



## 8 Operational Restrictions for 5.85-5.895GHz U-NII Devices

For Indoor Access Point operates in the 5.850-5.895 GHz band, is supplied power from a wired connection, has an integrated antenna, is not battery powered, and does not have a weatherized enclosure. Indoor access point devices must bear the following statement in a conspicuous location on the device and in the user's manual: FCC regulations restrict operation of this device to indoor use only.

Device is a Indoor access point, all restrictions are meet the §15.403 requirements. Please refer to the Attestation letter exhibit supplied within this application.

## 9 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

## 10 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Lin Kou EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF/Telecom Lab**

Tel: 886-3-6668565

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**Hwa Ya EMC/RF/Safety Lab**

Tel: 886-3-3183232

Fax: 886-3-3270892

**Email:** [service.adt@bureauveritas.com](mailto:service.adt@bureauveritas.com)

**Web Site:** <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

--- END ---