# FCC Test Report

| | |
|---|---|
| **Report No.:** | RFBFBE-WTW-P21031123-1 |
| **FCC ID:** | I88DX4510-B0 |
| **Test Model:** | DX4510-B0 |
| **Received Date:** | Mar. 23, 2021 |
| **Test Date:** | Mar. 23 to July 30, 2021 |
| **Issued Date:** | Apr. 15, 2022 |
| **Applicant:** | Zyxel Communications Corporation |
| **Address:** | No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan |
| **Issued By:** | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory |
| **Lab Address:** | E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan |
| **Test Location:** | E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan |
| **FCC Registration / Designation Number:** | 723255 / TW2022 |

## Table of Contents

## Release Control Record

| Issue No. | Description | Date Issued |
|---|---|---|
| RFBFBE-WTW-P21031123-1 | Original release. | Apr. 15, 2022 |

## 1 Certificate of Conformity

| | |
|---|---|
| **Product:** | AX6000 WiFi6 VDSL2 Bonding Gateway |
| **Brand:** | ZYXEL |
| **Test Model:** | DX4510-B0 |
| **Sample Status:** | Engineering sample |
| **Applicant:** | Zyxel Communications Corporation |
| **Test Date:** | Mar. 23 to July 30, 2021 |
| **Standard:** | 47 CFR FCC Part 15, Subpart E (Section 15.407)<br>ANSI C63.10: 2013 |

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 EMC characteristics under the conditions specified in this report.

**Prepared by :** _____ , **Date:** Apr. 15, 2022

Phoenix Huang / Specialist

**Approved by :** _____ , **Date:** Apr. 15, 2022

May Chen / Manager

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) | | | |
|---|---|---|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.407(b)(8) | AC Power Conducted Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -7.41 dB at 0.15391 MHz. |
| 15.407(b) (1/2/3/4(i/ii)/8) | Radiated Emissions & Band Edge Measurement* | Pass | Meet the requirement of limit. Minimum passing margin is -0.5 dB at 5150.00 MHz, 5350.00 MHz, 5465.04 MHz, 5467.50 MHz and 5725.00 MHz. |
| 15.407(a)(1/2/3) | Max Average Transmit Power | Pass | Meet the requirement of limit. |
| --- | Occupied Bandwidth Measurement | - | Reference only. |
| 15.407(a)(1/2/3) | Peak Power Spectral Density | Pass | Meet the requirement of limit. |
| 15.407(e) | 6dB bandwidth | Pass | Meet the requirement of limit. (U-NII-3 Band only) |
| 15.407(g) | Frequency Stability | Pass | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | Pass | Antenna connector is i-pex(MHF) not a standard connector. |

Note:
1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.
2. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
3. 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 | Frequency | Expanded Uncertainty (k=2) (±) |
|---|---|---|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.9 dB |
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz | 3.1 dB |
| | 30MHz ~ 1GHz | 5.5 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 5.1 dB |
| | 18GHz ~ 40GHz | 5.3 dB |

### 2.2 Modification Record

There were no modifications required for compliance.

## 3 General Information

### 3.1 General Description of EUT (WLAN)

| | |
|---|---|
| Product | AX6000 WiFi6 VDSL2 Bonding Gateway |
| Brand | ZYXEL |
| Test Model | DX4510-B0 |
| Status of EUT | Engineering sample |
| CPU Model No. | BCM63138UKFSBG |
| RF Chip Model No. | BCM43684 |
| Version of Firmware | V5.17(ABYL.0)b2 |
| Power Supply Rating | 12 Vdc from power adapter |
| Modulation Type | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz mode<br>1024QAM for OFDMA in 11ax mode only |
| Modulation Technology | DSSS, OFDM, OFDMA |
| Transfer Rate | 802.11b: up to 11 Mbps<br>802.11a/g: up to 54 Mbps<br>802.11n: up to 600 Mbps<br>802.11ac: up to 3466.7 Mbps<br>802.11ax: up to 4803.9 Mbps |
| Operating Frequency | **2.4GHz:** 2.412 ~ 2.462 GHz<br>**5GHz:** 5.18~ 5.32 GHz, 5.5 ~ 5.72 GHz, 5.745 ~ 5.825 GHz |
| Number of Channel | **2.4GHz:**<br>802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 11<br>802.11n (HT40), VHT40, 802.11ax (HE40): 7<br>**5GHz:**<br>802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25<br>802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12<br>802.11ac (VHT80), 802.11ax (HE80): 6<br>802.11ac (VHT160), 802.11ax (HE160): 2 |
| Output Power | **CDD Mode:**<br>**2.412 ~ 2.462 GHz:** 992.518 mW<br>**5.18 ~ 5.32 GHz:** 978.408 mW<br>**5.5 ~ 5.72 GHz:** 247.904 mW<br>**5.745 ~ 5.825 GHz:** 989.441 mW<br>**Beamforming Mode:**<br>**2.412 ~ 2.462 GHz:** 974.469 mW<br>**5.18 ~ 5.32 GHz:** 978.408 mW<br>**5.5 ~ 5.72 GHz:** 247.904 mW<br>**5.745 ~ 5.825 GHz:** 989.441 mW |
| Antenna Type | Refer to Note |
| Antenna Connector | Refer to Note |

| | |
|---|---|
| Accessory Device | - AC Adaptor x 1<br>- Ethernet Cable, Non-shielded, 1.8 m<br>- DSL Cable, Non-shielded, 1.8 m |

Note:

1. Simultaneously transmission condition.

| Condition | Technology | |
|---|---|---|
| 1 | WLAN (2.4GHz) | WLAN (5GHz) |
| Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found. | | |

2. The EUT uses following adapter.

| Adapter 1 | |
|---|---|
| Brand | DVE |
| Model | DSA-36PFN-12 FUS |
| Input Power | AC input: 100-240 Vac, 50/60 Hz, 1.0 A |
| Output Power | DC output: 12 Vdc, 3.0A, 36.0 W |
| Power Line | DC output cable: Unshielded, 1.5 m |
| Adapter 2 | |
| Brand | MNC |
| Model | MAUS-1202503000 |
| Input Power | AC input: 100-240 Vac, 50/60 Hz, 0.8 A |
| Output Power | DC output: 12 Vdc, 2.5 A |
| Power Line | DC output cable: Unshielded, 1.5 m |
| Note: From the above adapters, the worst Radiated Emissions and Conducted Emissions test was found in Adapter 1. Therefore only the test data of the modes were recorded in this report. | |

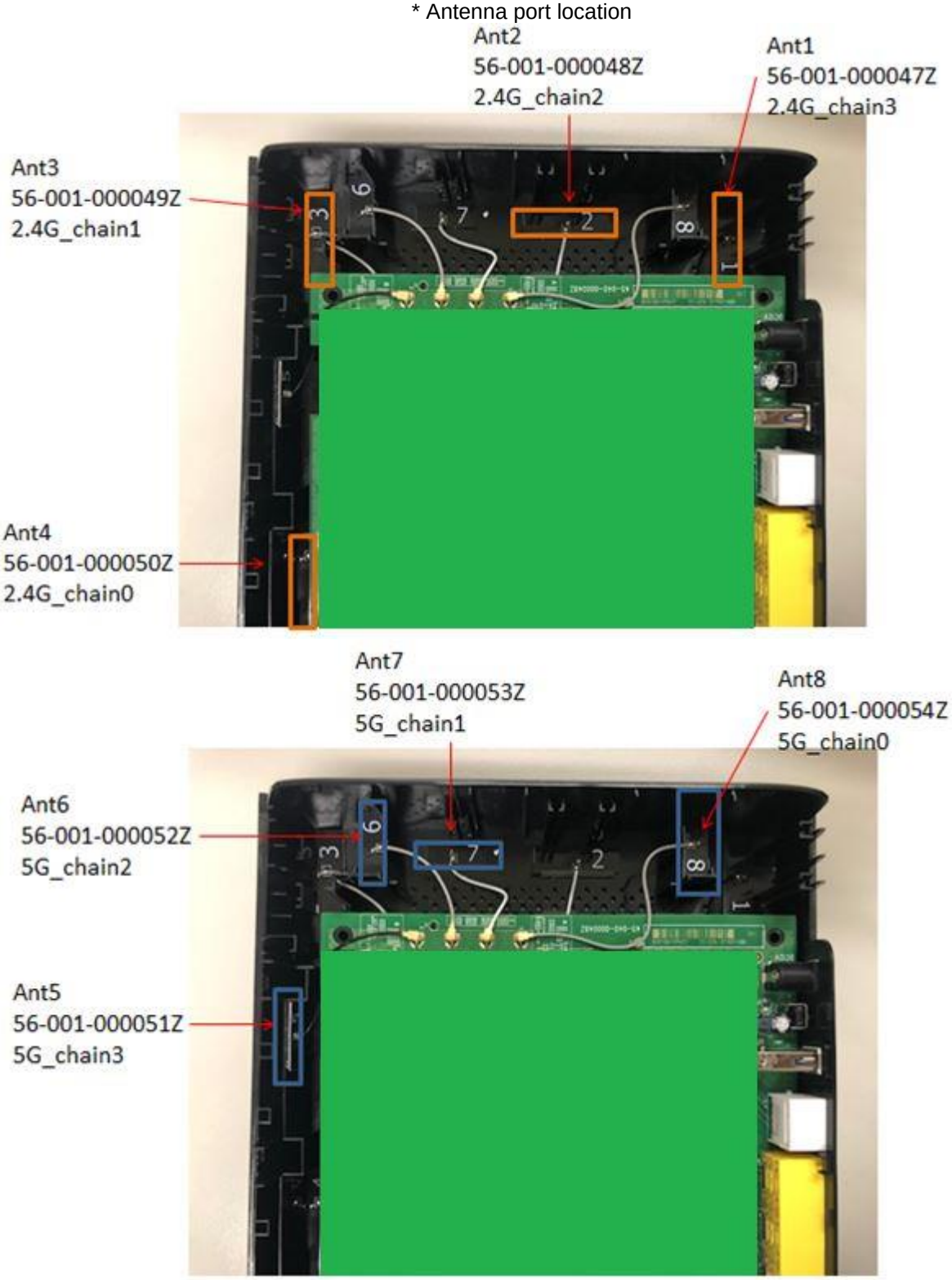
3. The antennas provided to the EUT, please refer to the following table:

| Antenna No. | RF Chain No. | Brand | Model | Antenna Net Gain (dBi) | Frequency Range (GHz) | Antenna Type | Connector Type | Cable Length (mm) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.4G_Chain 3 | WHAYU | 56-001-000047Z | 2.7 | 2.4~2.4835 | Dipole | i-pex(MHF) | 313 |
| 2 | 2.4G_Chain 2 | WHAYU | 56-001-000048Z | 2.31 | 2.4~2.4835 | Dipole | i-pex(MHF) | 258 |
| 3 | 2.4G_Chain 1 | WHAYU | 56-001-000049Z | 2.57 | 2.4~2.4835 | Dipole | i-pex(MHF) | 263 |
| 4 | 2.4G_Chain 0 | WHAYU | 56-001-000050Z | 2.53 | 2.4~2.4835 | Dipole | i-pex(MHF) | 145 |
| 5 | 5G_Chain 3 | WHAYU | 56-001-000051Z | 2.6<br>2.92<br>3.31<br>3.16 | 5.15~5.25<br>5.25~5.35<br>5.47~5.725<br>5.725~5.85 | Dipole | i-pex(MHF) | 59 |
| 6 | 5G_Chain 2 | WHAYU | 56-001-000052Z | 2.99<br>3.22<br>3.13<br>2.18 | 5.15~5.25<br>5.25~5.35<br>5.47~5.725<br>5.725~5.85 | Dipole | i-pex(MHF) | 40 |
| 7 | 5G_Chain 1 | WHAYU | 56-001-000053Z | 3.48<br>3.09<br>3.79<br>2.46 | 5.15~5.25<br>5.25~5.35<br>5.47~5.725<br>5.725~5.85 | Dipole | i-pex(MHF) | 45 |
| 8 | 5G_Chain 0 | WHAYU | 56-001-000054Z | 0.63<br>2.62<br>2.61<br>3.73 | 5.15~5.25<br>5.25~5.35<br>5.47~5.725<br>5.725~5.85 | Dipole | i-pex(MHF) | 80 |

Note:

1. Antenna Gain refer to “P21031123 Multi-Antenna Systems Directional Gain measurement” files.
2. Maximum Correlated Directional Gain following KDB662911 D03 MIMO Antenna Gain Measurement.

* Antenna port location



4. The EUT incorporates a MIMO function:

| 2.4GHz Band | | |
|---|---|---|
| **MODULATION MODE** | **TX & RX CONFIGURATION** | |
| **802.11b** | 4TX | 4RX |
| **802.11g** | 4TX | 4RX |
| **802.11n (HT20)** | 4TX | 4RX |
| **802.11n (HT40)** | 4TX | 4RX |
| **VHT20** | 4TX | 4RX |
| **VHT40** | 4TX | 4RX |
| **802.11ax (HE20)** | 4TX | 4RX |
| **802.11ax (HE40)** | 4TX | 4RX |
| **5GHz Band** | | |
| **MODULATION MODE** | **TX & RX CONFIGURATION** | |
| **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/b/g 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 modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz, 160MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report. (Final test mode refer to section 3.2.1)

5. The power setting are list as below:

| CDD Mode | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a | | 802.11ac (VHT20) | | 802.11ac (VHT40) | | 802.11ac (VHT80) | | 802.11ac (VHT160) | |
| Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting |
| 5180 | 48 | 5180 | 48 | 5190 | 54 | 5210 | 55 | 5250 | 54 |
| 5200 | 48 | 5200 | 48 | 5230 | 54 | 5290 | 55 | | |
| 5240 | 48 | 5240 | 48 | 5270 | 55 | 5530 | 66 | | |
| 5260 | 55 | 5260 | 55 | 5310 | 55 | 5690 | 71 | | |
| 5300 | 55 | 5300 | 55 | 5510 | 68 | 5775 | 90 | | |
| 5320 | 55 | 5320 | 55 | 5550 | 71 | | | | |
| 5500 | 68 | 5500 | 70 | 5670 | 71 | | | | |
| 5580 | 68 | 5580 | 70 | 5710 | 71 | | | | |
| 5700 | 68 | 5700 | 71 | 5755 | 95 | | | | |
| 5720 | 68 | 5720 | 70 | 5795 | 95 | | | | |
| 5745 | 95 | 5745 | 95 | | | | | | |
| 5785 | 95 | 5785 | 95 | | | | | | |
| 5825 | 95 | 5825 | 95 | | | | | | |

| 802.11ax (HE20) | | 802.11ax (HE40) | | 802.11ax (HE80) | | 802.11ax (HE160) | |
|---|---|---|---|---|---|---|---|
| Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting |
| 5180 | 48 | 5190 | 54 | 5210 | 55 | 5250 | 54 |
| 5200 | 48 | 5230 | 54 | 5290 | 55 | | |
| 5240 | 48 | 5270 | 55 | 5530 | 66 | | |
| 5260 | 55 | 5310 | 55 | 5690 | 71 | | |
| 5300 | 55 | 5510 | 68 | 5775 | 90 | | |
| 5320 | 55 | 5550 | 71 | | | | |
| 5500 | 68 | 5670 | 71 | | | | |
| 5580 | 68 | 5710 | 71 | | | | |
| 5700 | 68 | 5755 | 95 | | | | |
| 5720 | 68 | 5795 | 95 | | | | |
| 5745 | 95 | | | | | | |
| 5785 | 95 | | | | | | |
| 5825 | 95 | | | | | | |

| Beamforming Mode | | | | | | | |
|---|---|---|---|---|---|---|---|
| 802.11ac (VHT20) | | 802.11ac (VHT40) | | 802.11ac (VHT80) | | 802.11ac (VHT160) | |
| Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting |
| 5180 | 46 | 5190 | 47 | 5210 | 58 | 5250 | 48 |
| 5200 | 46 | 5230 | 47 | 5290 | 51 | | |
| 5240 | 46 | 5270 | 51 | 5530 | 66 | | |
| 5260 | 51 | 5310 | 51 | 5690 | 71 | | |
| 5300 | 51 | 5510 | 68 | 5775 | 90 | | |
| 5320 | 51 | 5550 | 71 | | | | |
| 5500 | 70 | 5670 | 71 | | | | |
| 5580 | 70 | 5710 | 71 | | | | |
| 5700 | 71 | 5755 | 95 | | | | |
| 5720 | 70 | 5795 | 95 | | | | |
| 5745 | 95 | | | | | | |
| 5785 | 95 | | | | | | |
| 5825 | 95 | | | | | | |
| 802.11ax (HE20) | | 802.11ax (HE40) | | 802.11ax (HE80) | | 802.11ax (HE160) | |
| Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting | Frequency (MHz) | Power Setting |
| 5180 | 46 | 5190 | 47 | 5210 | 58 | 5250 | 48 |
| 5200 | 46 | 5230 | 47 | 5290 | 51 | | |
| 5240 | 46 | 5270 | 51 | 5530 | 66 | | |
| 5260 | 51 | 5310 | 51 | 5690 | 71 | | |
| 5300 | 51 | 5510 | 68 | 5775 | 90 | | |
| 5320 | 51 | 5550 | 71 | | | | |
| 5500 | 70 | 5670 | 71 | | | | |
| 5580 | 70 | 5710 | 71 | | | | |
| 5700 | 71 | 5755 | 95 | | | | |
| 5720 | 70 | 5795 | 95 | | | | |
| 5745 | 95 | | | | | | |
| 5785 | 95 | | | | | | |
| 5825 | 95 | | | | | | |

6. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
7. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 3.2 Description of Test Modes

**FOR 5180 ~ 5320MHz**

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

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 36 | 5180 MHz | 52 | 5260 MHz |
| 40 | 5200 MHz | 56 | 5280 MHz |
| 44 | 5220 MHz | 60 | 5300 MHz |
| 48 | 5240 MHz | 64 | 5320 MHz |

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

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 38 | 5190 MHz | 54 | 5270 MHz |
| 46 | 5230 MHz | 62 | 5310 MHz |

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 42 | 5210MHz | 58 | 5290 MHz |

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

| Channel | Frequency |
|---|---|
| 50 | 5250 MHz |

**FOR 5500 ~ 5720MHz**

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

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 100 | 5500 MHz | 124 | 5620 MHz |
| 104 | 5520 MHz | 128 | 5640 MHz |
| 108 | 5540 MHz | 132 | 5660 MHz |
| 112 | 5560 MHz | 136 | 5680 MHz |
| 116 | 5580 MHz | 140 | 5700 MHz |
| 120 | 5600 MHz | 144 | 5720 MHz |

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

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 102 | 5510 MHz | 126 | 5630 MHz |
| 110 | 5550 MHz | 134 | 5670 MHz |
| 118 | 5590 MHz | 142 | 5710 MHz |

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 106 | 5530 MHz | 138 | 5690 MHz |
| 122 | 5610 MHz | | |

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

| Channel | Frequency |
|---|---|
| 114 | 5570 MHz |

**FOR 5745 ~ 5825MHz:**

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

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 149 | 5745 MHz | 161 | 5805 MHz |
| 153 | 5765 MHz | 165 | 5825 MHz |
| 157 | 5785 MHz | | |

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

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 151 | 5755 MHz | 159 | 5795 MHz |

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

| Channel | Frequency |
|---|---|
| 155 | 5775 MHz |

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To | | | | Description |
|---|---|---|---|---|---|
| | RE≥1G | RE<1G | PLC | APCM | |
| - | √ | √ | √ | √ | - |

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
**PLC:** Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

**Radiated Emission Test (Above 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

| CDD Mode | | | | | | |
|---|---|---|---|---|---|---|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11a | 5180-5320 | 36 to 64 | 36, 40, 48, 52, 60, 64 | OFDM | BPSK | 6Mb/s |
| 802.11ax (HE20) | | 36 to 64 | 36, 40, 48, 52, 60, 64 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 38 to 62 | 38, 46, 54, 62 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 42, 58 | 42, 58 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | | 50 | 50 | OFDMA | BPSK | MCS0 |
| 802.11a | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | 6Mb/s |
| 802.11ax (HE20) | | 100 to 144 | 100, 116, 140, 144 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 102 to 142 | 102, 110, 134, 142 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 106 to 138 | 106, 122, 138 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | | 114 | 114 | OFDMA | BPSK | MCS0 |
| 802.11a | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6Mb/s |
| 802.11ax (HE20) | | 149 to 165 | 149, 157, 165 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 151 to 159 | 151, 159 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 155 | 155 | OFDMA | BPSK | MCS0 |

**Radiated Emission Test (Below 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

| CDD Mode | | | | | | |
|---|---|---|---|---|---|---|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11ax (HE20) | 5180-5320, 5500-5720, 5745-5825 | 36 to 64, 100 to 144, 149 to 165 | 149 | OFDMA | BPSK | MCS0 |

## Power Line Conducted Emission Test:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

| CDD Mode | | | | | | |
|---|---|---|---|---|---|---|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11ax (HE20) | 5180-5320, 5500-5720, 5745-5825 | 36 to 64, 100 to 144, 149 to 165 | 149 | OFDMA | BPSK | MCS0 |

## Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

| CDD Mode | | | | | | |
|---|---|---|---|---|---|---|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
| 802.11a | 5180-5320 | 36 to 64 | 36, 40, 48, 52, 60, 64 | OFDM | BPSK | 6Mb/s |
| 802.11ac (VHT20) (for output power) | | 36 to 64 | 36, 40, 48, 52, 60, 64 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT40) (for output power) | | 38 to 62 | 38, 46, 54, 62 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT80) (for output power) | | 42, 58 | 42, 58 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT160) (for output power) | | 50 | 50 | OFDM | BPSK | MCS0 |
| 802.11ax (HE20) | | 36 to 64 | 36, 40, 48, 52, 60, 64 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 38 to 62 | 38, 46, 54, 62 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 42, 58 | 42, 58 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | | 50 | 50 | OFDMA | BPSK | MCS0 |
| 802.11a | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | 6Mb/s |
| 802.11ac (VHT20) (for output power) | | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT40) (for output power) | | 102 to 142 | 102, 110, 134, 142 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT80) (for output power) | | 106 to 138 | 106, 122, 138 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT160) (for output power) | | 114 | 114 | OFDM | BPSK | MCS0 |
| 802.11ax (HE20) | | 100 to 144 | 100, 116, 140, 144 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 102 to 142 | 102, 110, 134, 142 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 106 to 138 | 106, 122, 138 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | | 114 | 114 | OFDMA | BPSK | MCS0 |
| 802.11a | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6Mb/s |
| 802.11ac (VHT20) (for output power) | | 149 to 165 | 149, 157, 165 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT40) (for output power) | | 151 to 159 | 151, 159 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT80) (for output power) | | 155 | 155 | OFDM | BPSK | MCS0 |
| 802.11ax (HE20) | | 149 to 165 | 149, 157, 165 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 151 to 159 | 151, 159 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 155 | 155 | OFDMA | BPSK | MCS0 |

| Beamforming Mode (output power only) | | | | | | |
|---|---|---|---|---|---|---|
| **Mode** | **FREQ. Band (MHz)** | **Available Channel** | **Tested Channel** | **Modulation Technology** | **Modulation Type** | **Data Rate Parameter** |
| 802.11ac (VHT20) | 5180-5320 | 36 to 64 | 36, 40, 48, 52, 60, 64 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT40) | | 38 to 62 | 38, 46, 54, 62 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT80) | | 42, 58 | 42, 58 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT160) | | 50 | 50 | OFDM | BPSK | MCS0 |
| 802.11ax (HE20) | | 36 to 64 | 36, 40, 48, 52, 60, 64 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 38 to 62 | 38, 46, 54, 62 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 42, 58 | 42, 58 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | | 50 | 50 | OFDMA | BPSK | MCS0 |
| 802.11ac (VHT20) | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT40) | | 102 to 142 | 102, 110, 134, 142 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT80) | | 106 to 138 | 106, 122, 138 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT160) | | 114 | 114 | OFDM | BPSK | MCS0 |
| 802.11ax (HE20) | | 100 to 144 | 100, 116, 140, 144 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 102 to 142 | 102, 110, 134, 142 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 106 to 138 | 106, 122, 138 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | | 114 | 114 | OFDMA | BPSK | MCS0 |
| 802.11ac (VHT20) | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT40) | | 151 to 159 | 151, 159 | OFDM | BPSK | MCS0 |
| 802.11ac (VHT80) | | 155 | 155 | OFDM | BPSK | MCS0 |
| 802.11ax (HE20) | | 149 to 165 | 149, 157, 165 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | | 151 to 159 | 151, 159 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | | 155 | 155 | OFDMA | BPSK | MCS0 |

## Test Condition:

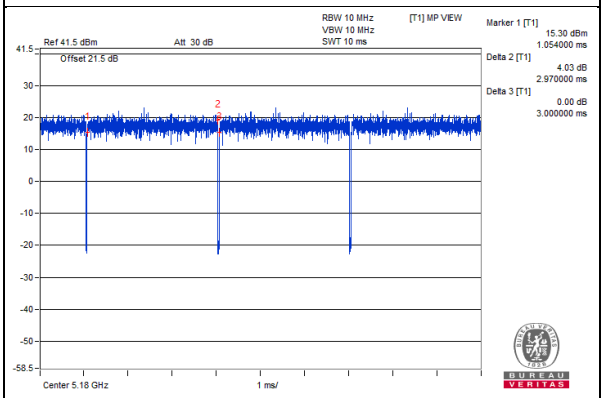
| Applicable To | Environmental Conditions | Input Power | Tested By |
|---|---|---|---|
| **RE≥1G** | 22deg. C, 70%RH | 120Vac, 60Hz | Sampson Chen |
| **RE<1G** | 22deg. C, 70%RH | 120Vac, 60Hz | Ryan Du |
| **PLC** | 25deg. C, 75%RH | 120Vac, 60Hz | Ryan Du |
| **APCM** | 25deg. C, 60%RH | 120Vac, 60Hz | Kevin Ko |

### 3.3 Duty Cycle of Test Signal

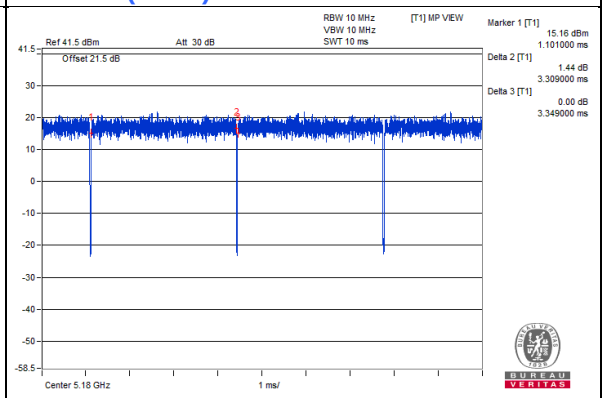
If duty cycle of test signal is ≥ 98 %, duty factor is not required.
If duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 2.97 ms/3 ms = 0.99
802.11ax (HE20): Duty cycle = 3.309 ms/3.349 ms = 0.988
802.11ax (HE40): Duty cycle = 1.687 ms/1.72 ms = 0.981
802.11ax (HE80): Duty cycle = 2.452 ms/2.488 ms = 0.986
802.11ax (HE160): Duty cycle = 1.228 ms/1.262 ms = 0.973, Duty factor = 10 * log (1/Duty cycle) = 0.12 dB

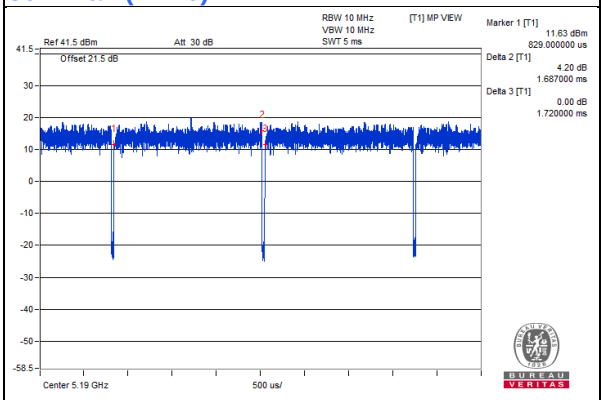
802.11a



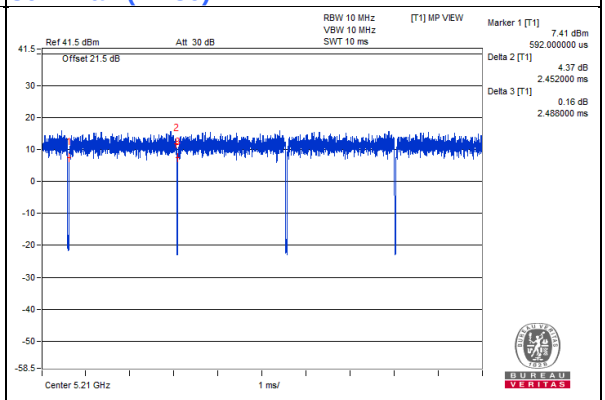

802.11ax (HE20)



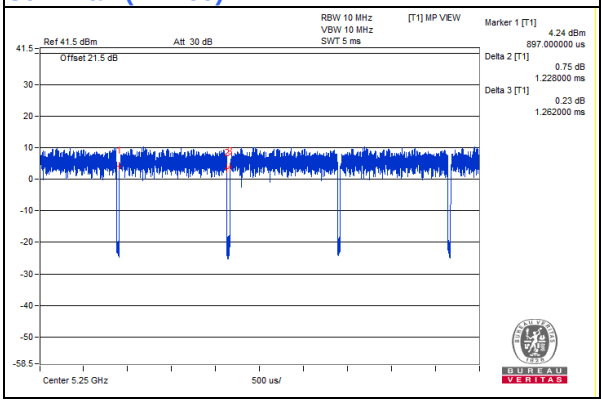

802.11ax (HE40)




802.11ax (HE80)




802.11ax (HE160)



## 3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

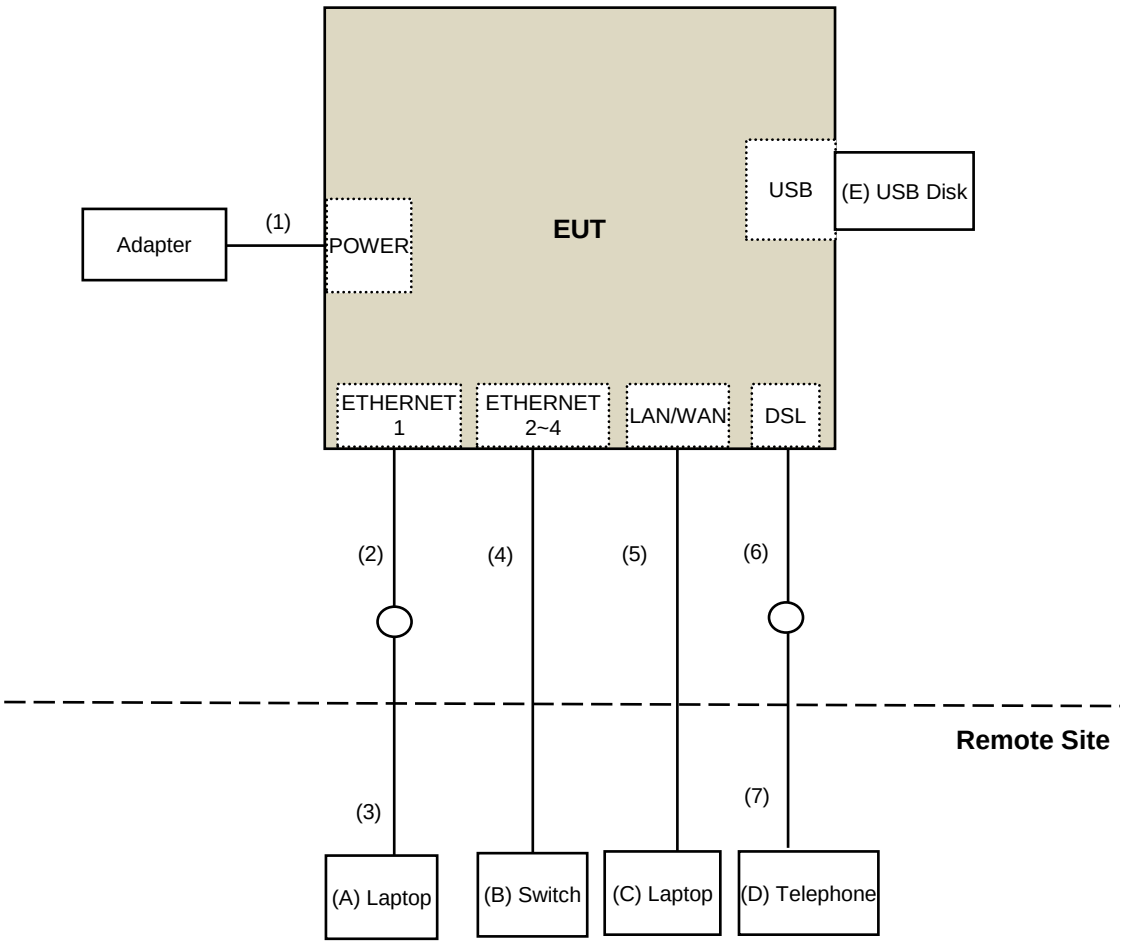
| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|---|---|---|---|---|---|---|
| A. | Laptop | Lenovo | 20U5S01X00 L14 | PF-28LKK7 | NA | Provided by Lab |
| B. | Switch | D-Link | DGS-1005D | DR8WC92000523 | NA | Provided by Lab |
| C. | Laptop | DELL | E6420 | B92T3R1 | DoC | Provided by Lab |
| D. | Telephone | Remeo | TE-812 | 97280903 | NA | Provided by Lab |
| E. | USB Disk | SanDisk | BM181225896Z | NA | NA | Provided by Lab |

Note:

1. All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|---|---|---|---|---|---|---|
| 1. | DC Cable | 1 | 1.5 | No | 0 | Supplied by client |
| 2. | Ethernet Cable | 1 | 1.8 | No | 0 | Supplied by client |
| 3. | RJ-45 Cable | 1 | 10 | No | 0 | Provided by Lab |
| 4. | RJ-45 Cable | 3 | 10 | No | 0 | Provided by Lab |
| 5. | RJ-45 Cable | 1 | 10 | No | 0 | Provided by Lab |
| 6. | RJ-11 Cable | 1 | 1.8 | No | 0 | Supplied by client |
| 7. | RJ-11 Cable | 1 | 10 | No | 0 | Provided by Lab |

### 3.4.1 Configuration of System under Test



## 3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

**Test Standard:**
**FCC Part 15, Subpart E (15.407)**
**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**References Test Guidance:**
**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**
**KDB 662911 D01 Multiple Transmitter Output v02r01**

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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 |

**NOTE**:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Applicable To | | Limit | |
|---|---|---|---|
| 789033 D02 General UNII Test Procedure New Rules v02r01 | | Field Strength at 3m | |
| | | PK:74 (dBμV/m) | AV:54 (dBμV/m) |
| Frequency Band | Applicable To | EIRP Limit | Equivalent Field Strength at 3m |
| 5150~5250 MHz | 15.407(b)(1) | PK:-27 (dBm/MHz) | PK:68.2(dBμV/m) |
| 5250~5350 MHz | 15.407(b)(2) | | |
| 5470~5725 MHz | 15.407(b)(3) | | |
| 5725~5850 MHz | 15.407(b)(4)(i) | PK: -27 (dBm/MHz) *1<br>PK: 10 (dBm/MHz) *2<br>PK: 15.6 (dBm/MHz) *3<br>PK: 27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1<br>PK: 105.2 (dBμV/m) *2<br>PK: 110.8(dBμV/m) *3<br>PK: 122.2 (dBμV/m) *4 |
| 5725~5850 MHz | 15.407(b)(4)(i) | PK:-27 (dBm/MHz) *1<br>PK:10 (dBm/MHz) *2<br>PK:15.6 (dBm/MHz) *3<br>PK:27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1<br>PK:105.2 (dBμV/m) *2<br>PK: 110.8(dBμV/m) *3<br>PK:122.2 (dBμV/m) *4 |

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

**Note:**

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

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

4.1.2 Test Instruments

**For Radiated Emission test & Bandedge & OOBE (except 802.11ax (HE80)):**

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Test Receiver Agilent | N9038A | MY51210202 | Dec. 01, 2020 | Nov. 30, 2021 |
| Pre-Amplifier EMCI | EMC001340 | 980142 | May 25, 2020 | May 24, 2021 |
| Loop Antenna Electro-Metrics | EM-6879 | 264 | Mar. 05, 2021 | Mar. 04, 2022 |
| RF Cable | 5D-FB | LOOPCAB-001 | Jan. 07, 2021 | Jan. 06, 2022 |
| RF Cable | 5D-FB | LOOPCAB-002 | Jan. 07, 2021 | Jan. 06, 2022 |
| Pre-Amplifier EMCI | EMC330N | 980701 | Mar. 10, 2021 | Mar. 09, 2022 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-406 | Nov. 06, 2020 | Nov. 05, 2021 |
| RF Cable | 8D | 966-4-1 | Mar. 17, 2021 | Mar. 16, 2022 |
| RF Cable | 8D | 966-4-2 | Mar. 17, 2021 | Mar. 16, 2022 |
| RF Cable | 8D | 966-4-3 | Mar. 17, 2021 | Mar. 16, 2022 |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-ATT5-03 | Jan. 11, 2021 | Jan. 10, 2022 |
| Horn_Antenna SCHWARZBECK | BBHA 9120D | 9120D-783 | Nov. 22, 2020 | Nov. 21, 2021 |
| Pre-Amplifier EMCI | EMC 12630 SE | 980638 | Apr. 07, 2021 | Apr. 06, 2022 |
| RF Cable | EMC104-SM-SM-1200 | 160922 | Dec. 25, 2020 | Dec. 24, 2021 |
| RF Cable | EMC104-SM-SM-2000 | 180502 | Apr. 26, 2021 | Apr. 25, 2022 |
| RF Cable | EMC104-SM-SM-6000 | 180418 | Apr. 26, 2021 | Apr. 25, 2022 |
| Pre-Amplifier EMCI | EMC184045SE | 980387 | Jan. 11, 2021 | Jan. 10, 2022 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170519 | Nov. 22, 2020 | Nov. 21, 2021 |
| RF Cable | EMC102-KM-KM-1200 | 160924 | Jan. 11, 2021 | Jan. 10, 2022 |
| RF Cable | EMC-KM-KM-4000 | 200214 | Mar. 10, 2021 | Mar. 09, 2022 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Boresight Antenna Tower & Turn Table Max-Full | MF-7802BS | MF780208530 | NA | NA |

**Note:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: Apr. 26 to May 08, 2021

**For Bandedge & OOBE test: (for 802.11ax (HE80))**

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Test Receiver Agilent | N9038A | MY51210202 | Dec. 01, 2020 | Nov. 30, 2021 |
| Horn_Antenna SCHWARZBECK | BBHA 9120D | 9120D-783 | Nov. 22, 2020 | Nov. 21, 2021 |
| Pre-Amplifier EMCI | EMC 12630 SE | 980638 | Apr. 08, 2020 | Apr. 07, 2021 |
| RF Cable | EMC104-SM-SM-1200 | 160922 | Dec. 25, 2020 | Dec. 24, 2021 |
| RF Cable | EMC104-SM-SM-2000 | 180502 | Apr. 29, 2020 | Apr. 28, 2021 |
| RF Cable | EMC104-SM-SM-6000 | 180418 | Apr. 29, 2020 | Apr. 28, 2021 |
| Pre-Amplifier EMCI | EMC184045SE | 980387 | Jan. 11, 2021 | Jan. 10, 2022 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170519 | Nov. 22, 2020 | Nov. 21, 2021 |
| RF Cable | EMC102-KM-KM-1200 | 160924 | Jan. 11, 2021 | Jan. 10, 2022 |
| RF Cable | EMC-KM-KM-4000 | 200214 | Mar. 10, 2021 | Mar. 09, 2022 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Boresight Antenna Tower & Turn Table Max-Full | MF-7802BS | MF780208530 | NA | NA |

**Note:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: Mar. 23, 2021

**For other test items:**

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Spectrum Analyzer R&S | FSV40 | 101516 | Mar. 08, 2021 | Mar. 07, 2022 |
| Power meter Anritsu | ML2495A | 1529002 | June 21, 2021 | June 20, 2022 |
| Power sensor Anritsu | MA2411B | 1339443 | May 31, 2021 | May 30, 2022 |
| 10dB Attenuator Woken | MDCS18N-10 | MDCS18N-10-01 | Apr. 13, 2021 | Apr. 12, 2022 |
| AC Power Source Extech Electronics | 6905S | 1991551 | NA | NA |
| Temperature & Humidity Chamber Giant Force | GTH-150-40-SP-AR | MAA0812-008 | Jan. 14, 2021 | Jan. 13, 2022 |
| True RMS Clamp Meter FLUKE | 325 | 31130711WS | June 02, 2021 | June 01, 2022 |
| Software | ADT_RF Test Software V6.6.5.4 | NA | NA | NA |

**NOTE:** 1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: July 29 to 30, 2021

4.1.3 Test Procedure

**For Radiated emission below 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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.

**Note:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

**For Radiated emission above 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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.

f. 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.

**Note:**

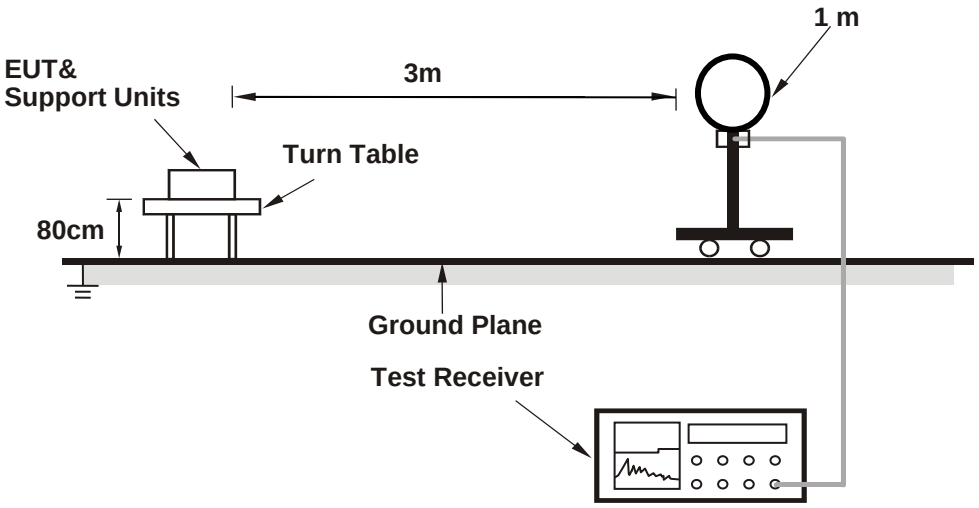
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

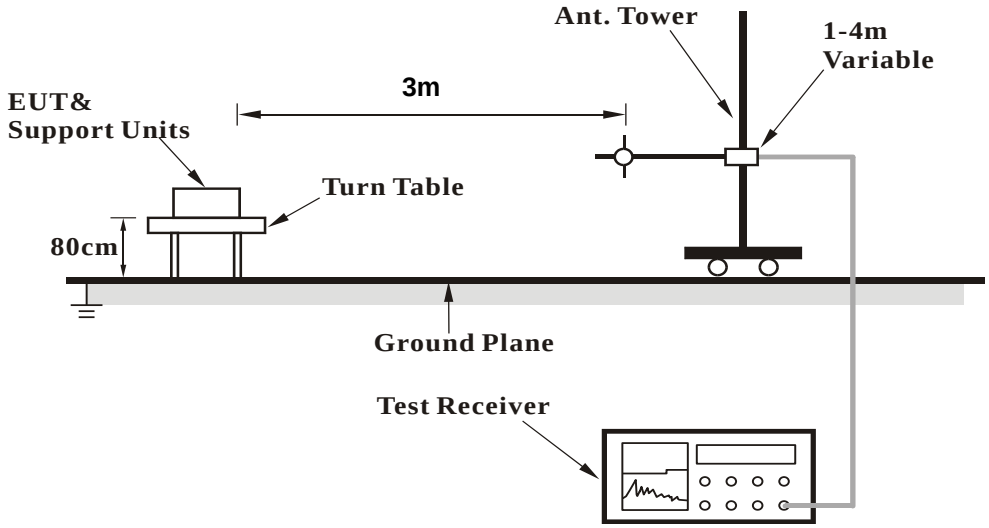
No deviation.

4.1.5 Test Setup

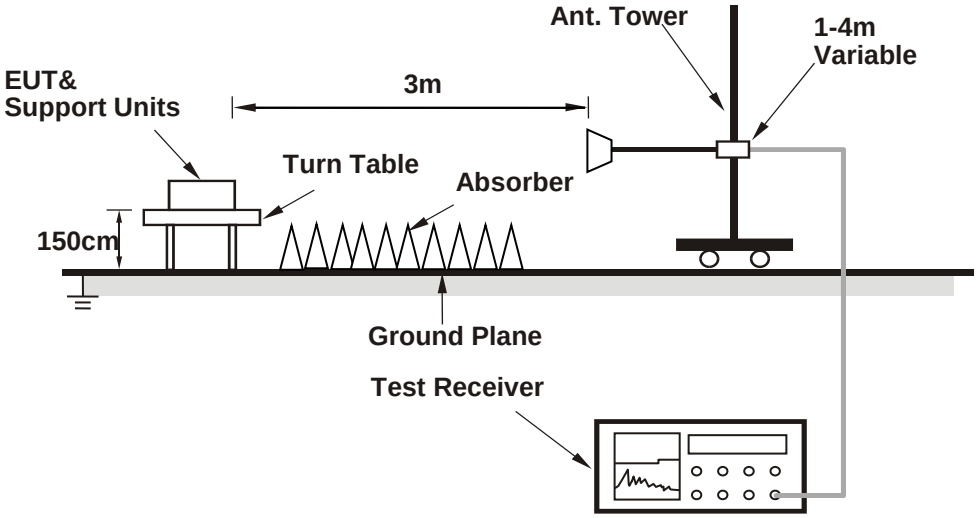
**For Radiated emission below 30MHz**




**For Radiated emission 30MHz to 1GHz**



**For Radiated emission above 1GHz**




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

4.1.6 EUT Operating Condition

a. Placed the EUT on the testing table.
b. Controlling software (accessMTool_3.2.1.0) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

**Above 1GHz Data:**

| RF Mode | TX 802.11a | Channel | CH 36：5180 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5142.20 | 65.1 PK | 74.0 | -8.9 | 1.44 H | 74 | 64.0 | 1.1 |
| 2 | 5142.20 | 47.0 AV | 54.0 | -7.0 | 1.44 H | 74 | 45.9 | 1.1 |
| 3 | *5180.00 | 113.3 PK | | | 1.44 H | 74 | 112.3 | 1.0 |
| 4 | *5180.00 | 104.7 AV | | | 1.44 H | 74 | 103.7 | 1.0 |
| 5 | #10360.00 | 55.2 PK | 68.2 | -13.0 | 1.82 H | 54 | 44.9 | 10.3 |
| 6 | 15540.00 | 51.4 PK | 74.0 | -22.6 | 1.52 H | 158 | 39.4 | 12.0 |
| 7 | 15540.00 | 38.6 AV | 54.0 | -15.4 | 1.52 H | 158 | 26.6 | 12.0 |
| **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 | 5146.62 | 69.5 PK | 74.0 | -4.5 | 1.49 V | 267 | 68.4 | 1.1 |
| 2 | 5146.62 | 53.4 AV | 54.0 | -0.6 | 1.49 V | 267 | 52.3 | 1.1 |
| 3 | *5180.00 | 119.3 PK | | | 1.49 V | 267 | 118.3 | 1.0 |
| 4 | *5180.00 | 109.8 AV | | | 1.49 V | 267 | 108.8 | 1.0 |
| 5 | #10360.00 | 55.4 PK | 68.2 | -12.8 | 1.39 V | 126 | 45.1 | 10.3 |
| 6 | 15540.00 | 53.5 PK | 74.0 | -20.5 | 1.49 V | 134 | 41.5 | 12.0 |
| 7 | 15540.00 | 39.8 AV | 54.0 | -14.2 | 1.49 V | 134 | 27.8 | 12.0 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 40：5200 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 63.2 PK | 74.0 | -10.8 | 1.45 H | 68 | 62.1 | 1.1 |
| 2 | 5150.00 | 47.4 AV | 54.0 | -6.6 | 1.45 H | 68 | 46.3 | 1.1 |
| 3 | *5200.00 | 115.4 PK | | | 1.44 H | 78 | 114.3 | 1.1 |
| 4 | *5200.00 | 106.5 AV | | | 1.44 H | 78 | 105.4 | 1.1 |
| 5 | #10400.00 | 54.9 PK | 68.2 | -13.3 | 1.82 H | 70 | 44.5 | 10.4 |
| 6 | 15600.00 | 51.5 PK | 74.0 | -22.5 | 1.55 H | 160 | 39.5 | 12.0 |
| 7 | 15600.00 | 38.4 AV | 54.0 | -15.6 | 1.55 H | 160 | 26.4 | 12.0 |
| **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 | 5150.00 | 65.1 PK | 74.0 | -8.9 | 1.51 V | 278 | 64.0 | 1.1 |
| 2 | 5150.00 | 52.6 AV | 54.0 | -1.4 | 1.51 V | 278 | 51.5 | 1.1 |
| 3 | *5200.00 | 121.5 PK | | | 1.51 V | 278 | 120.4 | 1.1 |
| 4 | *5200.00 | 111.7 AV | | | 1.51 V | 278 | 110.6 | 1.1 |
| 5 | #10400.00 | 55.9 PK | 68.2 | -12.3 | 1.44 V | 138 | 45.5 | 10.4 |
| 6 | 15600.00 | 52.8 PK | 74.0 | -21.2 | 1.47 V | 127 | 40.8 | 12.0 |
| 7 | 15600.00 | 39.3 AV | 54.0 | -14.7 | 1.47 V | 127 | 27.3 | 12.0 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 48：5240 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 50.2 PK | 74.0 | -23.8 | 1.47 H | 63 | 49.1 | 1.1 |
| 2 | 5150.00 | 39.9 AV | 54.0 | -14.1 | 1.47 H | 63 | 38.8 | 1.1 |
| 3 | *5240.00 | 114.9 PK | | | 1.47 H | 63 | 114.1 | 0.8 |
| 4 | *5240.00 | 105.2 AV | | | 1.47 H | 63 | 104.4 | 0.8 |
| 5 | 5406.65 | 51.8 PK | 74.0 | -22.2 | 1.47 H | 63 | 50.8 | 1.0 |
| 6 | 5406.65 | 40.1 AV | 54.0 | -13.9 | 1.47 H | 63 | 39.1 | 1.0 |
| 7 | #10480.00 | 55.5 PK | 68.2 | -12.7 | 1.78 H | 79 | 45.2 | 10.3 |
| 8 | 15720.00 | 51.7 PK | 74.0 | -22.3 | 1.59 H | 160 | 40.5 | 11.2 |
| 9 | 15720.00 | 38.4 AV | 54.0 | -15.6 | 1.59 H | 160 | 27.2 | 11.2 |
| **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 | 5150.00 | 54.4 PK | 74.0 | -19.6 | 1.52 V | 264 | 53.3 | 1.1 |
| 2 | 5150.00 | 43.3 AV | 54.0 | -10.7 | 1.52 V | 264 | 42.2 | 1.1 |
| 3 | *5240.00 | 119.6 PK | | | 1.52 V | 264 | 118.8 | 0.8 |
| 4 | *5240.00 | 110.0 AV | | | 1.52 V | 264 | 109.2 | 0.8 |
| 5 | 5350.00 | 55.7 PK | 74.0 | -18.3 | 1.52 V | 264 | 54.9 | 0.8 |
| 6 | 5350.00 | 44.5 AV | 54.0 | -9.5 | 1.52 V | 264 | 43.7 | 0.8 |
| 7 | #10480.00 | 56.1 PK | 68.2 | -12.1 | 1.46 V | 149 | 45.8 | 10.3 |
| 8 | 15720.00 | 53.4 PK | 74.0 | -20.6 | 1.46 V | 135 | 42.2 | 11.2 |
| 9 | 15720.00 | 39.7 AV | 54.0 | -14.3 | 1.46 V | 135 | 28.5 | 11.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 52：5260 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 50.4 PK | 74.0 | -23.6 | 1.54 H | 107 | 49.3 | 1.1 |
| 2 | 5150.00 | 39.1 AV | 54.0 | -14.9 | 1.54 H | 107 | 38.0 | 1.1 |
| 3 | *5260.00 | 114.7 PK | | | 1.54 H | 107 | 114.0 | 0.7 |
| 4 | *5260.00 | 104.8 AV | | | 1.54 H | 107 | 104.1 | 0.7 |
| 5 | 5414.64 | 52.6 PK | 74.0 | -21.4 | 1.54 H | 107 | 51.6 | 1.0 |
| 6 | 5414.64 | 41.0 AV | 54.0 | -13.0 | 1.54 H | 107 | 40.0 | 1.0 |
| 7 | #10520.00 | 56.3 PK | 68.2 | -11.9 | 1.54 H | 113 | 45.9 | 10.4 |
| 8 | 15780.00 | 53.4 PK | 74.0 | -20.6 | 1.59 H | 181 | 42.3 | 11.1 |
| 9 | 15780.00 | 38.9 AV | 54.0 | -15.1 | 1.59 H | 181 | 27.8 | 11.1 |
| **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 | 5150.00 | 52.8 PK | 74.0 | -21.2 | 1.57 V | 260 | 51.7 | 1.1 |
| 2 | 5150.00 | 42.6 AV | 54.0 | -11.4 | 1.57 V | 260 | 41.5 | 1.1 |
| 3 | *5260.00 | 119.3 PK | | | 1.57 V | 260 | 118.6 | 0.7 |
| 4 | *5260.00 | 109.7 AV | | | 1.57 V | 260 | 109.0 | 0.7 |
| 5 | 5350.00 | 55.5 PK | 74.0 | -18.5 | 1.57 V | 260 | 54.7 | 0.8 |
| 6 | 5350.00 | 44.5 AV | 54.0 | -9.5 | 1.57 V | 260 | 43.7 | 0.8 |
| 7 | #10520.00 | 57.1 PK | 68.2 | -11.1 | 1.73 V | 313 | 46.7 | 10.4 |
| 8 | 15780.00 | 54.0 PK | 74.0 | -20.0 | 1.50 V | 126 | 42.9 | 11.1 |
| 9 | 15780.00 | 40.2 AV | 54.0 | -13.8 | 1.50 V | 126 | 29.1 | 11.1 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 60：5300 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5300.00 | 114.6 PK | | | 1.56 H | 96 | 113.9 | 0.7 |
| 2 | *5300.00 | 104.6 AV | | | 1.56 H | 96 | 103.9 | 0.7 |
| 3 | 5350.00 | 57.8 PK | 74.0 | -16.2 | 1.56 H | 96 | 57.0 | 0.8 |
| 4 | 5350.00 | 44.7 AV | 54.0 | -9.3 | 1.56 H | 96 | 43.9 | 0.8 |
| 5 | 10600.00 | 56.0 PK | 74.0 | -18.0 | 1.51 H | 121 | 45.5 | 10.5 |
| 6 | 10600.00 | 47.0 AV | 54.0 | -7.0 | 1.51 H | 121 | 36.5 | 10.5 |
| 7 | 15900.00 | 53.2 PK | 74.0 | -20.8 | 1.62 H | 169 | 41.4 | 11.8 |
| 8 | 15900.00 | 38.6 AV | 54.0 | -15.4 | 1.62 H | 169 | 26.8 | 11.8 |
| **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 | *5300.00 | 120.1 PK | | | 1.51 V | 255 | 119.4 | 0.7 |
| 2 | *5300.00 | 109.8 AV | | | 1.51 V | 255 | 109.1 | 0.7 |
| 3 | 5350.00 | 60.0 PK | 74.0 | -14.0 | 1.51 V | 255 | 59.2 | 0.8 |
| 4 | 5350.00 | 47.3 AV | 54.0 | -6.7 | 1.51 V | 255 | 46.5 | 0.8 |
| 5 | 10600.00 | 57.2 PK | 74.0 | -16.8 | 1.78 V | 297 | 46.7 | 10.5 |
| 6 | 10600.00 | 45.5 AV | 54.0 | -8.5 | 1.78 V | 297 | 35.0 | 10.5 |
| 7 | 15900.00 | 54.2 PK | 74.0 | -19.8 | 1.44 V | 124 | 42.4 | 11.8 |
| 8 | 15900.00 | 40.2 AV | 54.0 | -13.8 | 1.44 V | 124 | 28.4 | 11.8 |

**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.

| RF Mode | TX 802.11a | Channel | CH 64：5320 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5320.00 | 114.9 PK | | | 1.41 H | 104 | 114.2 | 0.7 |
| 2 | *5320.00 | 104.9 AV | | | 1.41 H | 104 | 104.2 | 0.7 |
| 3 | 5354.50 | 62.3 PK | 74.0 | -11.7 | 1.41 H | 104 | 61.5 | 0.8 |
| 4 | 5354.50 | 46.9 AV | 54.0 | -7.1 | 1.41 H | 104 | 46.1 | 0.8 |
| 5 | 10640.00 | 55.6 PK | 74.0 | -18.4 | 1.49 H | 113 | 45.2 | 10.4 |
| 6 | 10640.00 | 46.6 AV | 54.0 | -7.4 | 1.49 H | 113 | 36.2 | 10.4 |
| 7 | 15960.00 | 53.0 PK | 74.0 | -21.0 | 1.58 H | 179 | 40.9 | 12.1 |
| 8 | 15960.00 | 38.3 AV | 54.0 | -15.7 | 1.58 H | 179 | 26.2 | 12.1 |
| **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 | *5320.00 | 120.1 PK | | | 1.51 V | 261 | 119.4 | 0.7 |
| 2 | *5320.00 | 110.1 AV | | | 1.51 V | 261 | 109.4 | 0.7 |
| 3 | 5350.00 | 71.4 PK | 74.0 | -2.6 | 1.51 V | 261 | 70.6 | 0.8 |
| 4 | 5350.00 | 53.3 AV | 54.0 | -0.7 | 1.51 V | 261 | 52.5 | 0.8 |
| 5 | 10640.00 | 57.5 PK | 74.0 | -16.5 | 1.82 V | 307 | 47.1 | 10.4 |
| 6 | 10640.00 | 45.6 AV | 54.0 | -8.4 | 1.82 V | 307 | 35.2 | 10.4 |
| 7 | 15960.00 | 53.8 PK | 74.0 | -20.2 | 1.43 V | 111 | 41.7 | 12.1 |
| 8 | 15960.00 | 39.9 AV | 54.0 | -14.1 | 1.43 V | 111 | 27.8 | 12.1 |

**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.

| RF Mode | TX 802.11a | Channel | CH 100：5500 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 54.8 PK | 74.0 | -19.2 | 1.57 H | 146 | 53.7 | 1.1 |
| 2 | 5460.00 | 42.5 AV | 54.0 | -11.5 | 1.57 H | 146 | 41.4 | 1.1 |
| 3 | #5470.00 | 66.8 PK | 68.2 | -1.4 | 1.57 H | 146 | 65.7 | 1.1 |
| 4 | *5500.00 | 112.6 PK | | | 1.57 H | 146 | 111.5 | 1.1 |
| 5 | *5500.00 | 103.4 AV | | | 1.57 H | 146 | 102.3 | 1.1 |
| 6 | 11000.00 | 56.3 PK | 74.0 | -17.7 | 1.56 H | 110 | 44.9 | 11.4 |
| 7 | 11000.00 | 47.0 AV | 54.0 | -7.0 | 1.56 H | 110 | 35.6 | 11.4 |
| 8 | #16500.00 | 53.4 PK | 68.2 | -14.8 | 1.64 H | 177 | 39.2 | 14.2 |
| **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 | 5456.24 | 60.8 PK | 74.0 | -13.2 | 1.59 V | 269 | 59.7 | 1.1 |
| 2 | 5456.24 | 46.8 AV | 54.0 | -7.2 | 1.59 V | 269 | 45.7 | 1.1 |
| **3** | **#5465.04** | **67.7 PK** | **68.2** | **-0.5** | **1.59 V** | **269** | **66.6** | **1.1** |
| 4 | *5500.00 | 119.3 PK | | | 1.59 V | 269 | 118.2 | 1.1 |
| 5 | *5500.00 | 108.8 AV | | | 1.59 V | 269 | 107.7 | 1.1 |
| 6 | 11000.00 | 56.9 PK | 74.0 | -17.1 | 1.82 V | 290 | 45.5 | 11.4 |
| 7 | 11000.00 | 45.3 AV | 54.0 | -8.7 | 1.82 V | 290 | 33.9 | 11.4 |
| 8 | #16500.00 | 53.7 PK | 68.2 | -14.5 | 1.43 V | 110 | 39.5 | 14.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 116：5580 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5580.00 | 115.3 PK | | | 1.46 H | 118 | 114.0 | 1.3 |
| 2 | *5580.00 | 105.3 AV | | | 1.46 H | 118 | 104.0 | 1.3 |
| 3 | 11160.00 | 56.7 PK | 74.0 | -17.3 | 1.49 H | 123 | 45.5 | 11.2 |
| 4 | 11160.00 | 47.4 AV | 54.0 | -6.6 | 1.49 H | 123 | 36.2 | 11.2 |
| 5 | #16740.00 | 53.3 PK | 68.2 | -14.9 | 1.65 H | 166 | 38.0 | 15.3 |
| **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 | *5580.00 | 120.5 PK | | | 1.48 V | 271 | 119.2 | 1.3 |
| 2 | *5580.00 | 110.4 AV | | | 1.48 V | 271 | 109.1 | 1.3 |
| 3 | 11160.00 | 57.6 PK | 74.0 | -16.4 | 1.76 V | 306 | 46.4 | 11.2 |
| 4 | 11160.00 | 45.9 AV | 54.0 | -8.1 | 1.76 V | 306 | 34.7 | 11.2 |
| 5 | #16740.00 | 53.7 PK | 68.2 | -14.5 | 1.42 V | 116 | 38.4 | 15.3 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 140：5700 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5700.00 | 111.5 PK | | | 1.60 H | 149 | 110.0 | 1.5 |
| 2 | *5700.00 | 101.3 AV | | | 1.60 H | 149 | 99.8 | 1.5 |
| 3 | #5725.00 | 64.3 PK | 68.2 | -3.9 | 1.60 H | 149 | 62.7 | 1.6 |
| 4 | 11400.00 | 55.6 PK | 74.0 | -18.4 | 1.55 H | 126 | 43.4 | 12.2 |
| 5 | 11400.00 | 46.7 AV | 54.0 | -7.3 | 1.55 H | 126 | 34.5 | 12.2 |
| 6 | #17100.00 | 53.7 PK | 68.2 | -14.5 | 1.62 H | 161 | 36.9 | 16.8 |
| **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 | *5700.00 | 117.7 PK | | | 1.47 V | 278 | 116.2 | 1.5 |
| 2 | *5700.00 | 107.0 AV | | | 1.47 V | 278 | 105.5 | 1.5 |
| 3 | #5725.00 | 67.4 PK | 68.2 | -0.8 | 1.00 V | 0 | 65.8 | 1.6 |
| 4 | 11400.00 | 57.3 PK | 74.0 | -16.7 | 1.76 V | 284 | 45.1 | 12.2 |
| 5 | 11400.00 | 45.6 AV | 54.0 | -8.4 | 1.76 V | 284 | 33.4 | 12.2 |
| 6 | #17100.00 | 54.0 PK | 68.2 | -14.2 | 1.39 V | 131 | 37.2 | 16.8 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 144：5720 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 54.8 PK | 74.0 | -19.2 | 1.45 H | 115 | 53.7 | 1.1 |
| 2 | 5460.00 | 42.1 AV | 54.0 | -11.9 | 1.45 H | 115 | 41.0 | 1.1 |
| 3 | #5470.00 | 55.1 PK | 68.2 | -13.1 | 1.45 H | 115 | 54.0 | 1.1 |
| 4 | *5720.00 | 114.9 PK | | | 1.45 H | 115 | 113.3 | 1.6 |
| 5 | *5720.00 | 105.1 AV | | | 1.45 H | 115 | 103.5 | 1.6 |
| 6 | #5850.00 | 58.0 PK | 68.2 | -10.2 | 1.45 H | 115 | 56.1 | 1.9 |
| 7 | 11440.00 | 56.5 PK | 74.0 | -17.5 | 1.53 H | 110 | 44.3 | 12.2 |
| 8 | 11440.00 | 47.4 AV | 54.0 | -6.6 | 1.53 H | 110 | 35.2 | 12.2 |
| 9 | #17160.00 | 53.5 PK | 68.2 | -14.7 | 1.58 H | 177 | 37.1 | 16.4 |
| **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 | 5460.00 | 54.8 PK | 74.0 | -19.2 | 1.52 V | 273 | 53.7 | 1.1 |
| 2 | 5460.00 | 42.1 AV | 54.0 | -11.9 | 1.52 V | 273 | 41.0 | 1.1 |
| 3 | #5470.00 | 55.1 PK | 68.2 | -13.1 | 1.52 V | 273 | 54.0 | 1.1 |
| 4 | *5720.00 | 119.8 PK | | | 1.52 V | 273 | 118.2 | 1.6 |
| 5 | *5720.00 | 110.1 AV | | | 1.52 V | 273 | 108.5 | 1.6 |
| 6 | #5850.00 | 57.7 PK | 68.2 | -10.5 | 1.52 V | 273 | 55.8 | 1.9 |
| 7 | 11440.00 | 56.9 PK | 74.0 | -17.1 | 1.77 V | 293 | 44.7 | 12.2 |
| 8 | 11440.00 | 45.3 AV | 54.0 | -8.7 | 1.77 V | 293 | 33.1 | 12.2 |
| 9 | #17160.00 | 54.5 PK | 68.2 | -13.7 | 1.44 V | 115 | 38.1 | 16.4 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 149：5745 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5627.06 | 53.1 PK | 68.2 | -15.1 | 1.60 H | 243 | 51.6 | 1.5 |
| 2 | *5745.00 | 119.7 PK | | | 1.60 H | 243 | 118.0 | 1.7 |
| 3 | *5745.00 | 109.6 AV | | | 1.60 H | 243 | 107.9 | 1.7 |
| 4 | #5992.36 | 54.1 PK | 68.2 | -14.1 | 1.60 H | 243 | 52.1 | 2.0 |
| 5 | 11490.00 | 54.6 PK | 74.0 | -19.4 | 1.48 H | 140 | 42.5 | 12.1 |
| 6 | 11490.00 | 46.5 AV | 54.0 | -7.5 | 1.48 H | 140 | 34.4 | 12.1 |
| 7 | #17235.00 | 53.6 PK | 68.2 | -14.6 | 1.45 H | 122 | 37.4 | 16.2 |
| **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 | #5610.74 | 55.7 PK | 68.2 | -12.5 | 1.53 V | 277 | 54.2 | 1.5 |
| 2 | *5745.00 | 123.1 PK | | | 1.53 V | 277 | 121.4 | 1.7 |
| 3 | *5745.00 | 112.9 AV | | | 1.53 V | 277 | 111.2 | 1.7 |
| 4 | #5953.37 | 56.9 PK | 68.2 | -11.3 | 1.53 V | 277 | 54.9 | 2.0 |
| 5 | 11490.00 | 56.2 PK | 74.0 | -17.8 | 2.02 V | 292 | 44.1 | 12.1 |
| 6 | 11490.00 | 47.2 AV | 54.0 | -6.8 | 2.02 V | 292 | 35.1 | 12.1 |
| 7 | #17235.00 | 56.4 PK | 68.2 | -11.8 | 2.48 V | 70 | 40.2 | 16.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 157：5785 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5573.85 | 53.6 PK | 68.2 | -14.6 | 1.55 H | 246 | 52.2 | 1.4 |
| 2 | *5785.00 | 119.7 PK | | | 1.55 H | 246 | 117.9 | 1.8 |
| 3 | *5785.00 | 109.8 AV | | | 1.55 H | 246 | 108.0 | 1.8 |
| 4 | #5937.92 | 54.1 PK | 68.2 | -14.1 | 1.55 H | 246 | 52.1 | 2.0 |
| 5 | 11570.00 | 56.2 PK | 74.0 | -17.8 | 1.49 H | 136 | 44.2 | 12.0 |
| 6 | 11570.00 | 47.2 AV | 54.0 | -6.8 | 1.49 H | 136 | 35.2 | 12.0 |
| 7 | #17355.00 | 54.1 PK | 68.2 | -14.1 | 1.44 H | 129 | 37.1 | 17.0 |
| **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 | #5638.39 | 55.8 PK | 68.2 | -12.4 | 1.55 V | 274 | 54.3 | 1.5 |
| 2 | *5785.00 | 122.7 PK | | | 1.55 V | 274 | 120.9 | 1.8 |
| 3 | *5785.00 | 112.5 AV | | | 1.55 V | 274 | 110.7 | 1.8 |
| 4 | #6000.15 | 56.8 PK | 68.2 | -11.4 | 1.55 V | 274 | 54.8 | 2.0 |
| 5 | 11570.00 | 57.9 PK | 74.0 | -16.1 | 1.73 V | 290 | 45.9 | 12.0 |
| 6 | 11570.00 | 47.6 AV | 54.0 | -6.4 | 1.73 V | 290 | 35.6 | 12.0 |
| 7 | #17355.00 | 57.4 PK | 68.2 | -10.8 | 2.54 V | 58 | 40.4 | 17.0 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11a | Channel | CH 165：5825 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5645.96 | 52.7 PK | 68.2 | -15.5 | 1.63 H | 240 | 51.2 | 1.5 |
| 2 | *5825.00 | 119.9 PK | | | 1.63 H | 240 | 118.1 | 1.8 |
| 3 | *5825.00 | 109.9 AV | | | 1.63 H | 240 | 108.1 | 1.8 |
| 4 | #5936.46 | 53.9 PK | 68.2 | -14.3 | 1.63 H | 240 | 52.0 | 1.9 |
| 5 | 11650.00 | 56.8 PK | 74.0 | -17.2 | 1.44 H | 137 | 45.1 | 11.7 |
| 6 | 11650.00 | 47.6 AV | 54.0 | -6.4 | 1.44 H | 137 | 35.9 | 11.7 |
| 7 | #17475.00 | 55.6 PK | 68.2 | -12.6 | 1.42 H | 130 | 36.7 | 18.9 |
| **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 | #5631.96 | 55.6 PK | 68.2 | -12.6 | 1.52 V | 252 | 54.1 | 1.5 |
| 2 | *5825.00 | 123.0 PK | | | 1.52 V | 252 | 121.2 | 1.8 |
| 3 | *5825.00 | 112.6 AV | | | 1.52 V | 252 | 110.8 | 1.8 |
| 4 | #5929.55 | 58.2 PK | 68.2 | -10.0 | 1.52 V | 252 | 56.3 | 1.9 |
| 5 | 11650.00 | 58.4 PK | 74.0 | -15.6 | 1.60 V | 279 | 46.7 | 11.7 |
| 6 | 11650.00 | 48.1 AV | 54.0 | -5.9 | 1.60 V | 279 | 36.4 | 11.7 |
| 7 | #17475.00 | 58.7 PK | 68.2 | -9.5 | 3.99 V | 84 | 39.8 | 18.9 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 36：5180 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 67.0 PK | 74.0 | -7.0 | 1.43 H | 230 | 65.9 | 1.1 |
| 2 | 5150.00 | 52.8 AV | 54.0 | -1.2 | 1.43 H | 230 | 51.7 | 1.1 |
| 3 | *5180.00 | 116.3 PK | | | 1.43 H | 230 | 115.3 | 1.0 |
| 4 | *5180.00 | 105.6 AV | | | 1.43 H | 230 | 104.6 | 1.0 |
| 5 | #10360.00 | 55.9 PK | 68.2 | -12.3 | 1.80 H | 85 | 45.6 | 10.3 |
| 6 | 15540.00 | 51.7 PK | 74.0 | -22.3 | 1.65 H | 165 | 39.7 | 12.0 |
| 7 | 15540.00 | 38.3 AV | 54.0 | -15.7 | 1.65 H | 165 | 26.3 | 12.0 |
| **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 | 5150.00 | 67.1 PK | 74.0 | -6.9 | 1.63 V | 267 | 66.0 | 1.1 |
| 2 | 5150.00 | 53.4 AV | 54.0 | -0.6 | 1.63 V | 267 | 52.3 | 1.1 |
| 3 | *5180.00 | 119.3 PK | | | 1.63 V | 267 | 118.3 | 1.0 |
| 4 | *5180.00 | 108.4 AV | | | 1.63 V | 267 | 107.4 | 1.0 |
| 5 | #10360.00 | 55.7 PK | 68.2 | -12.5 | 1.34 V | 126 | 45.4 | 10.3 |
| 6 | 15540.00 | 53.9 PK | 74.0 | -20.1 | 1.44 V | 148 | 41.9 | 12.0 |
| 7 | 15540.00 | 39.9 AV | 54.0 | -14.1 | 1.44 V | 148 | 27.9 | 12.0 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 40：5200 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 66.8 PK | 74.0 | -7.2 | 1.40 H | 224 | 65.7 | 1.1 |
| 2 | 5150.00 | 52.4 AV | 54.0 | -1.6 | 1.40 H | 224 | 51.3 | 1.1 |
| 3 | *5200.00 | 114.4 PK | | | 1.40 H | 224 | 113.3 | 1.1 |
| 4 | *5200.00 | 103.7 AV | | | 1.40 H | 224 | 102.6 | 1.1 |
| 5 | #10400.00 | 55.4 PK | 68.2 | -12.8 | 1.75 H | 81 | 45.0 | 10.4 |
| 6 | 15600.00 | 51.6 PK | 74.0 | -22.4 | 1.57 H | 159 | 39.6 | 12.0 |
| 7 | 15600.00 | 38.5 AV | 54.0 | -15.5 | 1.57 H | 159 | 26.5 | 12.0 |
| **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 | 5150.00 | 67.9 PK | 74.0 | -6.1 | 1.62 V | 259 | 66.8 | 1.1 |
| 2 | 5150.00 | 53.3 AV | 54.0 | -0.7 | 1.62 V | 259 | 52.2 | 1.1 |
| 3 | *5200.00 | 122.0 PK | | | 1.62 V | 259 | 120.9 | 1.1 |
| 4 | *5200.00 | 110.3 AV | | | 1.62 V | 259 | 109.2 | 1.1 |
| 5 | #10400.00 | 55.8 PK | 68.2 | -12.4 | 1.44 V | 146 | 45.4 | 10.4 |
| 6 | 15600.00 | 52.4 PK | 74.0 | -21.6 | 1.47 V | 129 | 40.4 | 12.0 |
| 7 | 15600.00 | 38.9 AV | 54.0 | -15.1 | 1.47 V | 129 | 26.9 | 12.0 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 48：5240 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 51.3 PK | 74.0 | -22.7 | 1.49 H | 231 | 50.2 | 1.1 |
| 2 | 5150.00 | 40.1 AV | 54.0 | -13.9 | 1.49 H | 231 | 39.0 | 1.1 |
| 3 | *5240.00 | 116.8 PK | | | 1.49 H | 231 | 116.0 | 0.8 |
| 4 | *5240.00 | 106.1 AV | | | 1.49 H | 231 | 105.3 | 0.8 |
| 5 | 5400.00 | 52.1 PK | 74.0 | -21.9 | 1.49 H | 231 | 51.1 | 1.0 |
| 6 | 5400.00 | 41.5 AV | 54.0 | -12.5 | 1.49 H | 231 | 40.5 | 1.0 |
| 7 | #10480.00 | 55.6 PK | 68.2 | -12.6 | 1.79 H | 73 | 45.3 | 10.3 |
| 8 | 15720.00 | 51.9 PK | 74.0 | -22.1 | 1.62 H | 172 | 40.7 | 11.2 |
| 9 | 15720.00 | 38.7 AV | 54.0 | -15.3 | 1.62 H | 172 | 27.5 | 11.2 |
| **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 | 5150.00 | 54.1 PK | 74.0 | -19.9 | 1.67 V | 261 | 53.0 | 1.1 |
| 2 | 5150.00 | 43.0 AV | 54.0 | -11.0 | 1.67 V | 261 | 41.9 | 1.1 |
| 3 | *5240.00 | 120.1 PK | | | 1.67 V | 261 | 119.3 | 0.8 |
| 4 | *5240.00 | 109.1 AV | | | 1.67 V | 261 | 108.3 | 0.8 |
| 5 | 5350.00 | 56.4 PK | 74.0 | -17.6 | 1.67 V | 261 | 55.6 | 0.8 |
| 6 | 5350.00 | 44.5 AV | 54.0 | -9.5 | 1.67 V | 261 | 43.7 | 0.8 |
| 7 | #10480.00 | 56.2 PK | 68.2 | -12.0 | 1.47 V | 129 | 45.9 | 10.3 |
| 8 | 15720.00 | 53.1 PK | 74.0 | -20.9 | 1.43 V | 124 | 41.9 | 11.2 |
| 9 | 15720.00 | 39.3 AV | 54.0 | -14.7 | 1.43 V | 124 | 28.1 | 11.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 52：5260 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 50.2 PK | 74.0 | -23.8 | 1.40 H | 227 | 49.1 | 1.1 |
| 2 | 5150.00 | 39.2 AV | 54.0 | -14.8 | 1.40 H | 227 | 38.1 | 1.1 |
| 3 | *5260.00 | 116.3 PK | | | 1.40 H | 227 | 115.6 | 0.7 |
| 4 | *5260.00 | 105.9 AV | | | 1.40 H | 227 | 105.2 | 0.7 |
| 5 | 5350.00 | 52.8 PK | 74.0 | -21.2 | 1.40 H | 227 | 52.0 | 0.8 |
| 6 | 5350.00 | 40.8 AV | 54.0 | -13.2 | 1.40 H | 227 | 40.0 | 0.8 |
| 7 | #10520.00 | 56.4 PK | 68.2 | -11.8 | 1.50 H | 107 | 46.0 | 10.4 |
| 8 | 15780.00 | 53.3 PK | 74.0 | -20.7 | 1.61 H | 170 | 42.2 | 11.1 |
| 9 | 15780.00 | 38.6 AV | 54.0 | -15.4 | 1.61 H | 170 | 27.5 | 11.1 |
| **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 | 5150.00 | 52.9 PK | 74.0 | -21.1 | 1.59 V | 253 | 51.8 | 1.1 |
| 2 | 5150.00 | 42.3 AV | 54.0 | -11.7 | 1.59 V | 253 | 41.2 | 1.1 |
| 3 | *5260.00 | 120.3 PK | | | 1.59 V | 253 | 119.6 | 0.7 |
| 4 | *5260.00 | 109.3 AV | | | 1.59 V | 253 | 108.6 | 0.7 |
| 5 | 5350.00 | 56.3 PK | 74.0 | -17.7 | 1.59 V | 253 | 55.5 | 0.8 |
| 6 | 5350.00 | 45.3 AV | 54.0 | -8.7 | 1.59 V | 253 | 44.5 | 0.8 |
| 7 | #10520.00 | 57.0 PK | 68.2 | -11.2 | 1.82 V | 304 | 46.6 | 10.4 |
| 8 | 15780.00 | 54.6 PK | 74.0 | -19.4 | 1.44 V | 130 | 43.5 | 11.1 |
| 9 | 15780.00 | 40.5 AV | 54.0 | -13.5 | 1.44 V | 130 | 29.4 | 11.1 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 60：5300 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5300.00 | 116.2 PK | | | 1.43 H | 242 | 115.5 | 0.7 |
| 2 | *5300.00 | 105.8 AV | | | 1.43 H | 242 | 105.1 | 0.7 |
| 3 | 5350.00 | 57.8 PK | 74.0 | -16.2 | 1.43 H | 242 | 57.0 | 0.8 |
| 4 | 5350.00 | 45.0 AV | 54.0 | -9.0 | 1.43 H | 242 | 44.2 | 0.8 |
| 5 | 10600.00 | 55.5 PK | 74.0 | -18.5 | 1.55 H | 125 | 45.0 | 10.5 |
| 6 | 10600.00 | 46.7 AV | 54.0 | -7.3 | 1.55 H | 125 | 36.2 | 10.5 |
| 7 | 15900.00 | 53.4 PK | 74.0 | -20.6 | 1.67 H | 165 | 41.6 | 11.8 |
| 8 | 15900.00 | 38.9 AV | 54.0 | -15.1 | 1.67 H | 165 | 27.1 | 11.8 |
| **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 | *5300.00 | 121.2 PK | | | 1.64 V | 253 | 120.5 | 0.7 |
| 2 | *5300.00 | 109.3 AV | | | 1.64 V | 253 | 108.6 | 0.7 |
| 3 | 5350.00 | 62.4 PK | 74.0 | -11.6 | 1.64 V | 253 | 61.6 | 0.8 |
| 4 | 5350.00 | 48.6 AV | 54.0 | -5.4 | 1.64 V | 253 | 47.8 | 0.8 |
| 5 | 10600.00 | 56.8 PK | 74.0 | -17.2 | 1.84 V | 293 | 46.3 | 10.5 |
| 6 | 10600.00 | 45.1 AV | 54.0 | -8.9 | 1.84 V | 293 | 34.6 | 10.5 |
| 7 | 15900.00 | 54.3 PK | 74.0 | -19.7 | 1.47 V | 116 | 42.5 | 11.8 |
| 8 | 15900.00 | 40.4 AV | 54.0 | -13.6 | 1.47 V | 116 | 28.6 | 11.8 |

**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.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 64：5320 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5320.00 | 116.1 PK | | | 1.35 H | 236 | 115.4 | 0.7 |
| 2 | *5320.00 | 104.4 AV | | | 1.35 H | 236 | 103.7 | 0.7 |
| 3 | 5352.74 | 63.3 PK | 74.0 | -10.7 | 1.35 H | 236 | 62.5 | 0.8 |
| 4 | 5352.74 | 47.8 AV | 54.0 | -6.2 | 1.35 H | 236 | 47.0 | 0.8 |
| 5 | 10640.00 | 56.4 PK | 74.0 | -17.6 | 1.51 H | 125 | 46.0 | 10.4 |
| 6 | 10640.00 | 47.2 AV | 54.0 | -6.8 | 1.51 H | 125 | 36.8 | 10.4 |
| 7 | 15960.00 | 53.1 PK | 74.0 | -20.9 | 1.59 H | 172 | 41.0 | 12.1 |
| 8 | 15960.00 | 38.5 AV | 54.0 | -15.5 | 1.59 H | 172 | 26.4 | 12.1 |
| **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 | *5320.00 | 119.4 PK | | | 1.69 V | 263 | 118.7 | 0.7 |
| 2 | *5320.00 | 108.2 AV | | | 1.69 V | 263 | 107.5 | 0.7 |
| 3 | 5350.00 | 68.9 PK | 74.0 | -5.1 | 1.69 V | 263 | 68.1 | 0.8 |
| 4 | 5350.00 | 53.2 AV | 54.0 | -0.8 | 1.69 V | 263 | 52.4 | 0.8 |
| 5 | 10640.00 | 57.2 PK | 74.0 | -16.8 | 1.73 V | 302 | 46.8 | 10.4 |
| 6 | 10640.00 | 45.4 AV | 54.0 | -8.6 | 1.73 V | 302 | 35.0 | 10.4 |
| 7 | 15960.00 | 54.6 PK | 74.0 | -19.4 | 1.50 V | 113 | 42.5 | 12.1 |
| 8 | 15960.00 | 40.5 AV | 54.0 | -13.5 | 1.50 V | 113 | 28.4 | 12.1 |

**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.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 100：5500 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5456.71 | 58.6 PK | 74.0 | -15.4 | 1.43 H | 231 | 57.5 | 1.1 |
| 2 | 5456.71 | 42.8 AV | 54.0 | -11.2 | 1.43 H | 231 | 41.7 | 1.1 |
| 3 | #5467.84 | 63.5 PK | 68.2 | -4.7 | 1.43 H | 231 | 62.4 | 1.1 |
| 4 | *5500.00 | 114.6 PK | | | 1.43 H | 231 | 113.5 | 1.1 |
| 5 | *5500.00 | 103.2 AV | | | 1.43 H | 231 | 102.1 | 1.1 |
| 6 | 11000.00 | 56.0 PK | 74.0 | -18.0 | 1.47 H | 105 | 44.6 | 11.4 |
| 7 | 11000.00 | 47.2 AV | 54.0 | -6.8 | 1.47 H | 105 | 35.8 | 11.4 |
| 8 | #16500.00 | 53.5 PK | 68.2 | -14.7 | 1.67 H | 171 | 39.3 | 14.2 |
| **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 | 5458.80 | 62.9 PK | 74.0 | -11.1 | 1.66 V | 281 | 61.8 | 1.1 |
| 2 | 5458.80 | 47.7 AV | 54.0 | -6.3 | 1.66 V | 281 | 46.6 | 1.1 |
| 3 | #5468.73 | 67.4 PK | 68.2 | -0.8 | 1.66 V | 281 | 66.3 | 1.1 |
| 4 | *5500.00 | 119.1 PK | | | 1.66 V | 281 | 118.0 | 1.1 |
| 5 | *5500.00 | 107.6 AV | | | 1.66 V | 281 | 106.5 | 1.1 |
| 6 | 11000.00 | 57.6 PK | 74.0 | -16.4 | 1.74 V | 294 | 46.2 | 11.4 |
| 7 | 11000.00 | 45.9 AV | 54.0 | -8.1 | 1.74 V | 294 | 34.5 | 11.4 |
| 8 | #16500.00 | 53.7 PK | 68.2 | -14.5 | 1.50 V | 135 | 39.5 | 14.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 116：5580 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5580.00 | 116.0 PK | | | 1.38 H | 242 | 114.7 | 1.3 |
| 2 | *5580.00 | 104.4 AV | | | 1.38 H | 242 | 103.1 | 1.3 |
| 3 | 11160.00 | 55.7 PK | 74.0 | -18.3 | 1.47 H | 110 | 44.5 | 11.2 |
| 4 | 11160.00 | 46.5 AV | 54.0 | -7.5 | 1.47 H | 110 | 35.3 | 11.2 |
| 5 | #16740.00 | 53.6 PK | 68.2 | -14.6 | 1.60 H | 153 | 38.3 | 15.3 |
| **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 | *5580.00 | 121.3 PK | | | 1.65 V | 253 | 120.0 | 1.3 |
| 2 | *5580.00 | 109.3 AV | | | 1.65 V | 253 | 108.0 | 1.3 |
| 3 | 11160.00 | 56.9 PK | 74.0 | -17.1 | 1.81 V | 308 | 45.7 | 11.2 |
| 4 | 11160.00 | 45.2 AV | 54.0 | -8.8 | 1.81 V | 308 | 34.0 | 11.2 |
| 5 | #16740.00 | 54.1 PK | 68.2 | -14.1 | 1.42 V | 112 | 38.8 | 15.3 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 140：5700 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5700.00 | 116.5 PK | | | 1.42 H | 228 | 115.0 | 1.5 |
| 2 | *5700.00 | 104.9 AV | | | 1.42 H | 228 | 103.4 | 1.5 |
| 3 | #5725.00 | 64.3 PK | 68.2 | -3.9 | 1.42 H | 228 | 62.7 | 1.6 |
| 4 | 11400.00 | 56.0 PK | 74.0 | -18.0 | 1.52 H | 129 | 43.8 | 12.2 |
| 5 | 11400.00 | 47.0 AV | 54.0 | -7.0 | 1.52 H | 129 | 34.8 | 12.2 |
| 6 | #17100.00 | 53.5 PK | 68.2 | -14.7 | 1.56 H | 182 | 36.7 | 16.8 |
| **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 | *5700.00 | 117.5 PK | | | 1.67 V | 274 | 116.0 | 1.5 |
| 2 | *5700.00 | 106.8 AV | | | 1.67 V | 274 | 105.3 | 1.5 |
| **3** | **#5725.00** | **67.7 PK** | **68.2** | **-0.5** | **1.67 V** | **274** | **66.1** | **1.6** |
| 4 | 11400.00 | 56.4 PK | 74.0 | -17.6 | 1.77 V | 306 | 44.2 | 12.2 |
| 5 | 11400.00 | 44.8 AV | 54.0 | -9.2 | 1.77 V | 306 | 32.6 | 12.2 |
| 6 | #17100.00 | 53.4 PK | 68.2 | -14.8 | 1.36 V | 124 | 36.6 | 16.8 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 144：5720 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 54.7 PK | 74.0 | -19.3 | 1.35 H | 236 | 53.6 | 1.1 |
| 2 | 5460.00 | 42.0 AV | 54.0 | -12.0 | 1.35 H | 236 | 40.9 | 1.1 |
| 3 | #5470.00 | 55.1 PK | 68.2 | -13.1 | 1.35 H | 236 | 54.0 | 1.1 |
| 4 | *5720.00 | 116.6 PK | | | 1.35 H | 236 | 115.0 | 1.6 |
| 5 | *5720.00 | 104.8 AV | | | 1.35 H | 236 | 103.2 | 1.6 |
| 6 | #5850.00 | 58.0 PK | 68.2 | -10.2 | 1.35 H | 236 | 56.1 | 1.9 |
| 7 | 11440.00 | 55.8 PK | 74.0 | -18.2 | 1.55 H | 117 | 43.6 | 12.2 |
| 8 | 11440.00 | 46.9 AV | 54.0 | -7.1 | 1.55 H | 117 | 34.7 | 12.2 |
| 9 | #17160.00 | 53.6 PK | 68.2 | -14.6 | 1.61 H | 198 | 37.2 | 16.4 |
| **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 | 5460.00 | 54.8 PK | 74.0 | -19.2 | 1.60 V | 253 | 53.7 | 1.1 |
| 2 | 5460.00 | 42.1 AV | 54.0 | -11.9 | 1.60 V | 253 | 41.0 | 1.1 |
| 3 | #5470.00 | 55.1 PK | 68.2 | -13.1 | 1.60 V | 253 | 54.0 | 1.1 |
| 4 | *5720.00 | 120.9 PK | | | 1.60 V | 253 | 119.3 | 1.6 |
| 5 | *5720.00 | 109.2 AV | | | 1.60 V | 253 | 107.6 | 1.6 |
| 6 | #5850.00 | 57.7 PK | 68.2 | -10.5 | 1.60 V | 253 | 55.8 | 1.9 |
| 7 | 11440.00 | 57.7 PK | 74.0 | -16.3 | 1.74 V | 310 | 45.5 | 12.2 |
| 8 | 11440.00 | 45.9 AV | 54.0 | -8.1 | 1.74 V | 310 | 33.7 | 12.2 |
| 9 | #17160.00 | 54.6 PK | 68.2 | -13.6 | 1.39 V | 137 | 38.2 | 16.4 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 149：5745 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5649.87 | 54.1 PK | 68.2 | -14.1 | 1.54 H | 238 | 52.6 | 1.5 |
| 2 | *5745.00 | 119.9 PK | | | 1.54 H | 238 | 118.2 | 1.7 |
| 3 | *5745.00 | 108.6 AV | | | 1.54 H | 238 | 106.9 | 1.7 |
| 4 | #5994.55 | 53.8 PK | 68.2 | -14.4 | 1.54 H | 238 | 51.8 | 2.0 |
| 5 | 11490.00 | 55.2 PK | 74.0 | -18.8 | 1.49 H | 135 | 43.1 | 12.1 |
| 6 | 11490.00 | 45.1 AV | 54.0 | -8.9 | 1.49 H | 135 | 33.0 | 12.1 |
| 7 | #17235.00 | 55.1 PK | 68.2 | -13.1 | 1.36 H | 116 | 38.9 | 16.2 |
| **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 | #5576.66 | 57.5 PK | 68.2 | -10.7 | 1.58 V | 257 | 56.1 | 1.4 |
| 2 | *5745.00 | 122.6 PK | | | 1.58 V | 257 | 120.9 | 1.7 |
| 3 | *5745.00 | 111.6 AV | | | 1.58 V | 257 | 109.9 | 1.7 |
| 4 | #5954.62 | 57.6 PK | 68.2 | -10.6 | 1.58 V | 257 | 55.6 | 2.0 |
| 5 | 11490.00 | 55.6 PK | 74.0 | -18.4 | 1.55 V | 291 | 43.5 | 12.1 |
| 6 | 11490.00 | 45.4 AV | 54.0 | -8.6 | 1.55 V | 291 | 33.3 | 12.1 |
| 7 | #17235.00 | 56.2 PK | 68.2 | -12.0 | 4.00 V | 69 | 40.0 | 16.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 157：5785 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5641.78 | 52.9 PK | 68.2 | -15.3 | 1.59 H | 247 | 51.4 | 1.5 |
| 2 | *5785.00 | 119.7 PK | | | 1.59 H | 247 | 117.9 | 1.8 |
| 3 | *5785.00 | 108.5 AV | | | 1.59 H | 247 | 106.7 | 1.8 |
| 4 | #5981.57 | 54.0 PK | 68.2 | -14.2 | 1.59 H | 247 | 52.0 | 2.0 |
| 5 | 11570.00 | 55.7 PK | 74.0 | -18.3 | 1.44 H | 144 | 43.7 | 12.0 |
| 6 | 11570.00 | 45.4 AV | 54.0 | -8.6 | 1.44 H | 144 | 33.4 | 12.0 |
| 7 | #17355.00 | 55.1 PK | 68.2 | -13.1 | 1.33 H | 105 | 38.1 | 17.0 |
| **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 | #5623.52 | 55.2 PK | 68.2 | -13.0 | 1.63 V | 279 | 53.6 | 1.6 |
| 2 | *5785.00 | 123.1 PK | | | 1.63 V | 279 | 121.3 | 1.8 |
| 3 | *5785.00 | 111.9 AV | | | 1.63 V | 279 | 110.1 | 1.8 |
| 4 | #5955.27 | 58.0 PK | 68.2 | -10.2 | 1.63 V | 279 | 56.0 | 2.0 |
| 5 | 11570.00 | 55.8 PK | 74.0 | -18.2 | 1.51 V | 284 | 43.8 | 12.0 |
| 6 | 11570.00 | 45.4 AV | 54.0 | -8.6 | 1.51 V | 284 | 33.4 | 12.0 |
| 7 | #17355.00 | 56.9 PK | 68.2 | -11.3 | 4.00 V | 59 | 39.9 | 17.0 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 165：5825 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5607.21 | 53.5 PK | 68.2 | -14.7 | 1.56 H | 237 | 52.0 | 1.5 |
| 2 | *5825.00 | 119.7 PK | | | 1.56 H | 237 | 117.9 | 1.8 |
| 3 | *5825.00 | 108.4 AV | | | 1.56 H | 237 | 106.6 | 1.8 |
| 4 | #5988.72 | 54.9 PK | 68.2 | -13.3 | 1.56 H | 237 | 52.9 | 2.0 |
| 5 | 11650.00 | 55.5 PK | 74.0 | -18.5 | 1.43 H | 132 | 43.8 | 11.7 |
| 6 | 11650.00 | 45.3 AV | 54.0 | -8.7 | 1.43 H | 132 | 33.6 | 11.7 |
| 7 | #17475.00 | 55.5 PK | 68.2 | -12.7 | 1.38 H | 109 | 36.6 | 18.9 |
| **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 | #5617.21 | 56.2 PK | 68.2 | -12.0 | 1.67 V | 257 | 54.6 | 1.6 |
| 2 | *5825.00 | 122.7 PK | | | 1.67 V | 257 | 120.9 | 1.8 |
| 3 | *5825.00 | 111.6 AV | | | 1.67 V | 257 | 109.8 | 1.8 |
| 4 | #5946.00 | 58.1 PK | 68.2 | -10.1 | 1.67 V | 257 | 56.1 | 2.0 |
| 5 | 11650.00 | 55.7 PK | 74.0 | -18.3 | 1.56 V | 290 | 44.0 | 11.7 |
| 6 | 11650.00 | 45.2 AV | 54.0 | -8.8 | 1.56 V | 290 | 33.5 | 11.7 |
| 7 | #17475.00 | 55.8 PK | 68.2 | -12.4 | 4.00 V | 79 | 36.9 | 18.9 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 38：5190 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5147.00 | 56.4 PK | 74.0 | -17.6 | 1.56 H | 225 | 55.3 | 1.1 |
| 2 | 5147.00 | 45.2 AV | 54.0 | -8.8 | 1.56 H | 225 | 44.1 | 1.1 |
| 3 | *5190.00 | 108.7 PK | | | 1.56 H | 225 | 107.7 | 1.0 |
| 4 | *5190.00 | 97.1 AV | | | 1.56 H | 225 | 96.1 | 1.0 |
| 5 | #10380.00 | 55.4 PK | 68.2 | -12.8 | 1.70 H | 70 | 45.1 | 10.3 |
| 6 | 15570.00 | 51.6 PK | 74.0 | -22.4 | 1.61 H | 149 | 39.5 | 12.1 |
| 7 | 15570.00 | 38.3 AV | 54.0 | -15.7 | 1.61 H | 149 | 26.2 | 12.1 |
| **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 | 5150.00 | 64.8 PK | 74.0 | -9.2 | 1.55 V | 274 | 63.7 | 1.1 |
| 2 | 5150.00 | 53.2 AV | 54.0 | -0.8 | 1.55 V | 274 | 52.1 | 1.1 |
| 3 | *5190.00 | 112.4 PK | | | 1.55 V | 274 | 111.4 | 1.0 |
| 4 | *5190.00 | 100.7 AV | | | 1.55 V | 274 | 99.7 | 1.0 |
| 5 | #10380.00 | 55.2 PK | 68.2 | -13.0 | 1.39 V | 117 | 44.9 | 10.3 |
| 6 | 15570.00 | 53.9 PK | 74.0 | -20.1 | 1.40 V | 154 | 41.8 | 12.1 |
| 7 | 15570.00 | 40.2 AV | 54.0 | -13.8 | 1.40 V | 154 | 28.1 | 12.1 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 46：5230 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 63.4 PK | 74.0 | -10.6 | 1.57 H | 220 | 62.3 | 1.1 |
| 2 | 5150.00 | 48.6 AV | 54.0 | -5.4 | 1.57 H | 220 | 47.5 | 1.1 |
| 3 | *5230.00 | 115.7 PK | | | 1.57 H | 220 | 114.8 | 0.9 |
| 4 | *5230.00 | 103.6 AV | | | 1.57 H | 220 | 102.7 | 0.9 |
| 5 | 5388.77 | 54.1 PK | 74.0 | -19.9 | 1.57 H | 220 | 53.1 | 1.0 |
| 6 | 5388.77 | 42.4 AV | 54.0 | -11.6 | 1.57 H | 220 | 41.4 | 1.0 |
| 7 | #10460.00 | 55.3 PK | 68.2 | -12.9 | 1.71 H | 77 | 44.9 | 10.4 |
| 8 | 15690.00 | 51.3 PK | 74.0 | -22.7 | 1.61 H | 145 | 40.0 | 11.3 |
| 9 | 15690.00 | 38.5 AV | 54.0 | -15.5 | 1.61 H | 145 | 27.2 | 11.3 |
| **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 | 5150.00 | 64.0 PK | 74.0 | -10.0 | 1.56 V | 270 | 62.9 | 1.1 |
| 2 | 5150.00 | 50.9 AV | 54.0 | -3.1 | 1.56 V | 270 | 49.8 | 1.1 |
| 3 | *5230.00 | 117.9 PK | | | 1.56 V | 270 | 117.0 | 0.9 |
| 4 | *5230.00 | 107.0 AV | | | 1.56 V | 270 | 106.1 | 0.9 |
| 5 | 5350.00 | 57.2 PK | 74.0 | -16.8 | 1.56 V | 270 | 56.4 | 0.8 |
| 6 | 5350.00 | 46.1 AV | 54.0 | -7.9 | 1.56 V | 270 | 45.3 | 0.8 |
| 7 | #10460.00 | 55.6 PK | 68.2 | -12.6 | 1.28 V | 132 | 45.2 | 10.4 |
| 8 | 15690.00 | 54.0 PK | 74.0 | -20.0 | 1.40 V | 140 | 42.7 | 11.3 |
| 9 | 15690.00 | 40.0 AV | 54.0 | -14.0 | 1.40 V | 140 | 28.7 | 11.3 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 54：5270 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 51.9 PK | 74.0 | -22.1 | 1.60 H | 223 | 50.8 | 1.1 |
| 2 | 5150.00 | 40.3 AV | 54.0 | -13.7 | 1.60 H | 223 | 39.2 | 1.1 |
| 3 | *5270.00 | 115.4 PK | | | 1.60 H | 223 | 114.7 | 0.7 |
| 4 | *5270.00 | 103.5 AV | | | 1.60 H | 223 | 102.8 | 0.7 |
| 5 | 5352.65 | 58.1 PK | 74.0 | -15.9 | 1.60 H | 223 | 57.3 | 0.8 |
| 6 | 5352.65 | 46.4 AV | 54.0 | -7.6 | 1.60 H | 223 | 45.6 | 0.8 |
| 7 | #10540.00 | 56.0 PK | 68.2 | -12.2 | 1.52 H | 117 | 45.6 | 10.4 |
| 8 | 15810.00 | 53.2 PK | 74.0 | -20.8 | 1.59 H | 173 | 42.0 | 11.2 |
| 9 | 15810.00 | 38.9 AV | 54.0 | -15.1 | 1.59 H | 173 | 27.7 | 11.2 |
| **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 | 5150.00 | 54.4 PK | 74.0 | -19.6 | 1.52 V | 282 | 53.3 | 1.1 |
| 2 | 5150.00 | 44.5 AV | 54.0 | -9.5 | 1.52 V | 282 | 43.4 | 1.1 |
| 3 | *5270.00 | 118.2 PK | | | 1.52 V | 282 | 117.5 | 0.7 |
| 4 | *5270.00 | 107.2 AV | | | 1.52 V | 282 | 106.5 | 0.7 |
| 5 | 5350.00 | 61.1 PK | 74.0 | -12.9 | 1.52 V | 282 | 60.3 | 0.8 |
| 6 | 5350.00 | 50.0 AV | 54.0 | -4.0 | 1.52 V | 282 | 49.2 | 0.8 |
| 7 | #10540.00 | 57.1 PK | 68.2 | -11.1 | 1.80 V | 301 | 46.7 | 10.4 |
| 8 | 15810.00 | 54.4 PK | 74.0 | -19.6 | 1.50 V | 137 | 43.2 | 11.2 |
| 9 | 15810.00 | 40.2 AV | 54.0 | -13.8 | 1.50 V | 137 | 29.0 | 11.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 62：5310 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5310.00 | 108.3 PK | | | 1.52 H | 227 | 107.6 | 0.7 |
| 2 | *5310.00 | 95.8 AV | | | 1.52 H | 227 | 95.1 | 0.7 |
| 3 | 5352.72 | 58.4 PK | 74.0 | -15.6 | 1.52 H | 227 | 57.6 | 0.8 |
| 4 | 5352.72 | 45.5 AV | 54.0 | -8.5 | 1.52 H | 227 | 44.7 | 0.8 |
| 5 | 10620.00 | 55.4 PK | 74.0 | -18.6 | 1.51 H | 143 | 44.9 | 10.5 |
| 6 | 10620.00 | 46.7 AV | 54.0 | -7.3 | 1.51 H | 143 | 36.2 | 10.5 |
| 7 | 15930.00 | 52.9 PK | 74.0 | -21.1 | 1.55 H | 197 | 40.9 | 12.0 |
| 8 | 15930.00 | 38.6 AV | 54.0 | -15.4 | 1.55 H | 197 | 26.6 | 12.0 |
| **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 | *5310.00 | 111.8 PK | | | 1.54 V | 273 | 111.1 | 0.7 |
| 2 | *5310.00 | 100.3 AV | | | 1.54 V | 273 | 99.6 | 0.7 |
| 3 | 5350.00 | 65.1 PK | 74.0 | -8.9 | 1.54 V | 273 | 64.3 | 0.8 |
| 4 | 5350.00 | 53.2 AV | 54.0 | -0.8 | 1.54 V | 273 | 52.4 | 0.8 |
| 5 | 10620.00 | 57.0 PK | 74.0 | -17.0 | 1.82 V | 311 | 46.5 | 10.5 |
| 6 | 10620.00 | 45.3 AV | 54.0 | -8.7 | 1.82 V | 311 | 34.8 | 10.5 |
| 7 | 15930.00 | 54.4 PK | 74.0 | -19.6 | 1.44 V | 127 | 42.4 | 12.0 |
| 8 | 15930.00 | 40.5 AV | 54.0 | -13.5 | 1.44 V | 127 | 28.5 | 12.0 |

**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.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 102：5510 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5458.00 | 53.4 PK | 74.0 | -20.6 | 1.59 H | 234 | 52.3 | 1.1 |
| 2 | 5458.00 | 42.3 AV | 54.0 | -11.7 | 1.59 H | 234 | 41.2 | 1.1 |
| 3 | #5468.70 | 56.9 PK | 68.2 | -11.3 | 1.59 H | 234 | 55.8 | 1.1 |
| 4 | *5510.00 | 109.2 PK | | | 1.59 H | 234 | 108.1 | 1.1 |
| 5 | *5510.00 | 96.9 AV | | | 1.59 H | 234 | 95.8 | 1.1 |
| 6 | 11020.00 | 55.5 PK | 74.0 | -18.5 | 1.53 H | 119 | 44.1 | 11.4 |
| 7 | 11020.00 | 46.6 AV | 54.0 | -7.4 | 1.53 H | 119 | 35.2 | 11.4 |
| 8 | #16530.00 | 53.4 PK | 68.2 | -14.8 | 1.61 H | 183 | 38.9 | 14.5 |
| **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 | 5460.00 | 60.3 PK | 74.0 | -13.7 | 1.51 V | 288 | 59.2 | 1.1 |
| 2 | 5460.00 | 48.0 AV | 54.0 | -6.0 | 1.51 V | 288 | 46.9 | 1.1 |
| **3** | **#5467.50** | **67.7 PK** | **68.2** | **-0.5** | **1.51 V** | **288** | **66.6** | **1.1** |
| 4 | *5510.00 | 113.8 PK | | | 1.51 V | 288 | 112.7 | 1.1 |
| 5 | *5510.00 | 101.0 AV | | | 1.51 V | 288 | 99.9 | 1.1 |
| 6 | 11020.00 | 56.7 PK | 74.0 | -17.3 | 1.73 V | 284 | 45.3 | 11.4 |
| 7 | 11020.00 | 45.2 AV | 54.0 | -8.8 | 1.73 V | 284 | 33.8 | 11.4 |
| 8 | #16530.00 | 53.9 PK | 68.2 | -14.3 | 1.43 V | 122 | 39.4 | 14.5 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 110：5550 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 54.8 PK | 74.0 | -19.2 | 1.64 H | 240 | 53.7 | 1.1 |
| 2 | 5460.00 | 44.7 AV | 54.0 | -9.3 | 1.64 H | 240 | 43.6 | 1.1 |
| 3 | #5470.00 | 61.3 PK | 68.2 | -6.9 | 1.64 H | 240 | 60.2 | 1.1 |
| 4 | *5550.00 | 114.9 PK | | | 1.64 H | 240 | 113.7 | 1.2 |
| 5 | *5550.00 | 103.1 AV | | | 1.64 H | 240 | 101.9 | 1.2 |
| 6 | 11100.00 | 56.5 PK | 74.0 | -17.5 | 1.46 H | 128 | 45.2 | 11.3 |
| 7 | 11100.00 | 47.3 AV | 54.0 | -6.7 | 1.46 H | 128 | 36.0 | 11.3 |
| 8 | #16650.00 | 53.9 PK | 68.2 | -14.3 | 1.62 H | 179 | 38.5 | 15.4 |
| **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 | 5460.00 | 64.2 PK | 74.0 | -9.8 | 1.53 V | 282 | 63.1 | 1.1 |
| 2 | 5460.00 | 47.7 AV | 54.0 | -6.3 | 1.53 V | 282 | 46.6 | 1.1 |
| 3 | #5470.00 | 67.4 PK | 68.2 | -0.8 | 1.53 V | 282 | 66.3 | 1.1 |
| 4 | *5550.00 | 118.5 PK | | | 1.53 V | 282 | 117.3 | 1.2 |
| 5 | *5550.00 | 106.0 AV | | | 1.53 V | 282 | 104.8 | 1.2 |
| 6 | 11100.00 | 57.2 PK | 74.0 | -16.8 | 1.72 V | 306 | 45.9 | 11.3 |
| 7 | 11100.00 | 45.5 AV | 54.0 | -8.5 | 1.72 V | 306 | 34.2 | 11.3 |
| 8 | #16650.00 | 54.3 PK | 68.2 | -13.9 | 1.44 V | 133 | 38.9 | 15.4 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 134：5670 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5670.00 | 114.6 PK | | | 1.59 H | 224 | 113.2 | 1.4 |
| 2 | *5670.00 | 102.6 AV | | | 1.59 H | 224 | 101.2 | 1.4 |
| 3 | #5725.00 | 64.7 PK | 68.2 | -3.5 | 1.59 H | 224 | 63.1 | 1.6 |
| 4 | 11340.00 | 55.9 PK | 74.0 | -18.1 | 1.54 H | 117 | 44.2 | 11.7 |
| 5 | 11340.00 | 46.9 AV | 54.0 | -7.1 | 1.54 H | 117 | 35.2 | 11.7 |
| 6 | #17010.00 | 53.2 PK | 68.2 | -15.0 | 1.50 H | 186 | 35.9 | 17.3 |
| **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 | *5670.00 | 116.6 PK | | | 1.50 V | 279 | 115.2 | 1.4 |
| 2 | *5670.00 | 105.1 AV | | | 1.50 V | 279 | 103.7 | 1.4 |
| 3 | #5725.00 | 67.3 PK | 68.2 | -0.9 | 1.50 V | 279 | 65.7 | 1.6 |
| 4 | 11340.00 | 56.9 PK | 74.0 | -17.1 | 1.73 V | 312 | 45.2 | 11.7 |
| 5 | 11340.00 | 45.5 AV | 54.0 | -8.5 | 1.73 V | 312 | 33.8 | 11.7 |
| 6 | #17010.00 | 54.7 PK | 68.2 | -13.5 | 1.46 V | 124 | 37.4 | 17.3 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 142：5710 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 56.1 PK | 74.0 | -17.9 | 1.59 H | 224 | 55.0 | 1.1 |
| 2 | 5460.00 | 43.4 AV | 54.0 | -10.6 | 1.59 H | 224 | 42.3 | 1.1 |
| 3 | #5470.00 | 56.5 PK | 68.2 | -11.7 | 1.59 H | 224 | 55.4 | 1.1 |
| 4 | *5710.00 | 114.5 PK | | | 1.59 H | 224 | 112.9 | 1.6 |
| 5 | *5710.00 | 102.7 AV | | | 1.59 H | 224 | 101.1 | 1.6 |
| 6 | #5850.00 | 60.4 PK | 68.2 | -7.8 | 1.59 H | 224 | 58.5 | 1.9 |
| 7 | 11420.00 | 56.6 PK | 74.0 | -17.4 | 1.48 H | 134 | 44.4 | 12.2 |
| 8 | 11420.00 | 47.4 AV | 54.0 | -6.6 | 1.48 H | 134 | 35.2 | 12.2 |
| 9 | #17130.00 | 53.3 PK | 68.2 | -14.9 | 1.61 H | 176 | 36.7 | 16.6 |
| 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 | 5460.00 | 55.9 PK | 74.0 | -18.1 | 1.51 V | 274 | 54.8 | 1.1 |
| 2 | 5460.00 | 43.2 AV | 54.0 | -10.8 | 1.51 V | 274 | 42.1 | 1.1 |
| 3 | #5470.00 | 56.2 PK | 68.2 | -12.0 | 1.51 V | 274 | 55.1 | 1.1 |
| 4 | *5710.00 | 119.6 PK | | | 1.51 V | 274 | 118.0 | 1.6 |
| 5 | *5710.00 | 106.7 AV | | | 1.51 V | 274 | 105.1 | 1.6 |
| 6 | #5850.00 | 60.1 PK | 68.2 | -8.1 | 1.51 V | 274 | 58.2 | 1.9 |
| 7 | 11420.00 | 57.4 PK | 74.0 | -16.6 | 1.80 V | 305 | 45.2 | 12.2 |
| 8 | 11420.00 | 45.6 AV | 54.0 | -8.4 | 1.80 V | 305 | 33.4 | 12.2 |
| 9 | #17130.00 | 54.4 PK | 68.2 | -13.8 | 1.49 V | 117 | 37.8 | 16.6 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 151：5755 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5648.36 | 66.3 PK | 68.2 | -1.9 | 1.59 H | 246 | 64.8 | 1.5 |
| 2 | *5755.00 | 117.5 PK | | | 1.59 H | 246 | 115.8 | 1.7 |
| 3 | *5755.00 | 105.6 AV | | | 1.59 H | 246 | 103.9 | 1.7 |
| 4 | #5933.34 | 58.8 PK | 68.2 | -9.4 | 1.59 H | 246 | 56.9 | 1.9 |
| 5 | 11510.00 | 55.2 PK | 74.0 | -18.8 | 1.45 H | 137 | 43.1 | 12.1 |
| 6 | 11510.00 | 44.9 AV | 54.0 | -9.1 | 1.45 H | 137 | 32.8 | 12.1 |
| 7 | #17265.00 | 56.1 PK | 68.2 | -12.1 | 1.34 H | 110 | 40.1 | 16.0 |
| **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 | #5649.64 | 64.1 PK | 68.2 | -4.1 | 1.53 V | 284 | 62.6 | 1.5 |
| 2 | *5755.00 | 119.6 PK | | | 1.53 V | 284 | 117.9 | 1.7 |
| 3 | *5755.00 | 107.9 AV | | | 1.53 V | 284 | 106.2 | 1.7 |
| 4 | #5933.23 | 59.0 PK | 68.2 | -9.2 | 1.53 V | 284 | 57.1 | 1.9 |
| 5 | 11510.00 | 55.4 PK | 74.0 | -18.6 | 1.54 V | 275 | 43.3 | 12.1 |
| 6 | 11510.00 | 44.9 AV | 54.0 | -9.1 | 1.54 V | 275 | 32.8 | 12.1 |
| 7 | #17265.00 | 55.9 PK | 68.2 | -12.3 | 4.00 V | 77 | 39.9 | 16.0 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 159：5795 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5632.77 | 59.4 PK | 68.2 | -8.8 | 1.54 H | 229 | 57.9 | 1.5 |
| 2 | *5795.00 | 117.9 PK | | | 1.54 H | 229 | 116.0 | 1.9 |
| 3 | *5795.00 | 105.8 AV | | | 1.54 H | 229 | 103.9 | 1.9 |
| 4 | #5927.79 | 67.5 PK | 68.2 | -0.7 | 1.54 H | 229 | 65.6 | 1.9 |
| 5 | 11590.00 | 55.6 PK | 74.0 | -18.4 | 1.44 H | 140 | 43.6 | 12.0 |
| 6 | 11590.00 | 45.4 AV | 54.0 | -8.6 | 1.44 H | 140 | 33.4 | 12.0 |
| 7 | #17385.00 | 55.4 PK | 68.2 | -12.8 | 1.35 H | 112 | 37.6 | 17.8 |
| **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 | #5638.47 | 56.2 PK | 68.2 | -12.0 | 1.51 V | 268 | 54.7 | 1.5 |
| 2 | *5795.00 | 119.8 PK | | | 1.51 V | 268 | 117.9 | 1.9 |
| 3 | *5795.00 | 108.0 AV | | | 1.51 V | 268 | 106.1 | 1.9 |
| 4 | #5927.74 | 62.6 PK | 68.2 | -5.6 | 1.51 V | 268 | 60.7 | 1.9 |
| 5 | 11590.00 | 56.0 PK | 74.0 | -18.0 | 1.54 V | 303 | 44.0 | 12.0 |
| 6 | 11590.00 | 45.3 AV | 54.0 | -8.7 | 1.54 V | 303 | 33.3 | 12.0 |
| 7 | #17385.00 | 55.6 PK | 68.2 | -12.6 | 4.00 V | 68 | 37.8 | 17.8 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE80) | Channel | CH 42：5210 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 59.2 PK | 74.0 | -14.8 | 1.53 H | 308 | 58.1 | 1.1 |
| 2 | 5150.00 | 47.9 AV | 54.0 | -6.1 | 1.53 H | 308 | 46.8 | 1.1 |
| 3 | *5210.00 | 104.3 PK | | | 1.53 H | 308 | 103.3 | 1.0 |
| 4 | *5210.00 | 92.6 AV | | | 1.53 H | 308 | 91.6 | 1.0 |
| 5 | 5350.00 | 51.0 PK | 74.0 | -23.0 | 1.53 H | 308 | 50.2 | 0.8 |
| 6 | 5350.00 | 40.0 AV | 54.0 | -14.0 | 1.53 H | 308 | 39.2 | 0.8 |
| 7 | #10420.00 | 55.9 PK | 68.2 | -12.3 | 1.76 H | 77 | 45.5 | 10.4 |
| 8 | 15630.00 | 50.5 PK | 74.0 | -23.5 | 1.56 H | 159 | 38.7 | 11.8 |
| 9 | 15630.00 | 38.0 AV | 54.0 | -16.0 | 1.56 H | 159 | 26.2 | 11.8 |
| **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 | 5150.00 | 63.6 PK | 74.0 | -10.4 | 1.60 V | 88 | 62.5 | 1.1 |
| **2** | **5150.00** | **53.5 AV** | **54.0** | **-0.5** | **1.60 V** | **88** | **52.4** | **1.1** |
| 3 | *5210.00 | 109.0 PK | | | 1.60 V | 88 | 108.0 | 1.0 |
| 4 | *5210.00 | 96.6 AV | | | 1.60 V | 88 | 95.6 | 1.0 |
| 5 | 5350.00 | 54.4 PK | 74.0 | -19.6 | 1.60 V | 88 | 53.6 | 0.8 |
| 6 | 5350.00 | 42.7 AV | 54.0 | -11.3 | 1.60 V | 88 | 41.9 | 0.8 |
| 7 | #10420.00 | 56.2 PK | 68.2 | -12.0 | 1.26 V | 147 | 45.8 | 10.4 |
| 8 | 15630.00 | 54.0 PK | 74.0 | -20.0 | 1.44 V | 129 | 42.2 | 11.8 |
| 9 | 15630.00 | 40.0 AV | 54.0 | -14.0 | 1.44 V | 129 | 28.2 | 11.8 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE80) | Channel | CH 58：5290 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 47.2 PK | 74.0 | -26.8 | 1.52 H | 310 | 46.1 | 1.1 |
| 2 | 5150.00 | 38.3 AV | 54.0 | -15.7 | 1.52 H | 310 | 37.2 | 1.1 |
| 3 | *5290.00 | 104.9 PK | | | 1.52 H | 310 | 104.2 | 0.7 |
| 4 | *5290.00 | 93.0 AV | | | 1.52 H | 310 | 92.3 | 0.7 |
| 5 | 5350.00 | 58.6 PK | 74.0 | -15.4 | 1.52 H | 310 | 57.8 | 0.8 |
| 6 | 5350.00 | 47.8 AV | 54.0 | -6.2 | 1.52 H | 310 | 47.0 | 0.8 |
| 7 | #10580.00 | 55.8 PK | 68.2 | -12.4 | 1.54 H | 123 | 45.4 | 10.4 |
| 8 | 15870.00 | 53.1 PK | 74.0 | -20.9 | 1.57 H | 172 | 41.5 | 11.6 |
| 9 | 15870.00 | 38.7 AV | 54.0 | -15.3 | 1.57 H | 172 | 27.1 | 11.6 |
| **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 | 5150.00 | 51.2 PK | 74.0 | -22.8 | 1.54 V | 92 | 50.1 | 1.1 |
| 2 | 5150.00 | 40.5 AV | 54.0 | -13.5 | 1.54 V | 92 | 39.4 | 1.1 |
| 3 | *5290.00 | 108.4 PK | | | 1.54 V | 92 | 107.7 | 0.7 |
| 4 | *5290.00 | 97.0 AV | | | 1.54 V | 92 | 96.3 | 0.7 |
| 5 | 5350.00 | 65.6 PK | 74.0 | -8.4 | 1.54 V | 92 | 64.8 | 0.8 |
| **6** | **5350.00** | **53.5 AV** | **54.0** | **-0.5** | **1.54 V** | **92** | **52.7** | **0.8** |
| 7 | #10580.00 | 56.7 PK | 68.2 | -11.5 | 1.81 V | 291 | 46.3 | 10.4 |
| 8 | 15870.00 | 54.7 PK | 74.0 | -19.3 | 1.49 V | 132 | 43.1 | 11.6 |
| 9 | 15870.00 | 40.5 AV | 54.0 | -13.5 | 1.49 V | 132 | 28.9 | 11.6 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE80) | Channel | CH 106：5530 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 54.8 PK | 74.0 | -19.2 | 1.58 H | 312 | 53.7 | 1.1 |
| 2 | 5460.00 | 43.2 AV | 54.0 | -10.8 | 1.58 H | 312 | 42.1 | 1.1 |
| 3 | #5470.00 | 57.1 PK | 68.2 | -11.1 | 1.58 H | 312 | 56.0 | 1.1 |
| 4 | *5530.00 | 104.2 PK | | | 1.58 H | 312 | 103.1 | 1.1 |
| 5 | *5530.00 | 93.4 AV | | | 1.58 H | 312 | 92.3 | 1.1 |
| 6 | #5725.00 | 48.6 PK | 68.2 | -19.6 | 1.58 H | 312 | 47.0 | 1.6 |
| 7 | 11060.00 | 55.9 PK | 74.0 | -18.1 | 1.47 H | 131 | 44.5 | 11.4 |
| 8 | 11060.00 | 46.8 AV | 54.0 | -7.2 | 1.47 H | 131 | 35.4 | 11.4 |
| 9 | #16590.00 | 53.3 PK | 68.2 | -14.9 | 1.56 H | 190 | 38.0 | 15.3 |
| **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 | 5460.00 | 65.0 PK | 74.0 | -9.0 | 1.58 V | 95 | 63.9 | 1.1 |
| 2 | 5460.00 | 51.2 AV | 54.0 | -2.8 | 1.58 V | 95 | 50.1 | 1.1 |
| 3 | #5470.00 | 67.4 PK | 68.2 | -0.8 | 1.58 V | 95 | 66.3 | 1.1 |
| 4 | *5530.00 | 110.5 PK | | | 1.58 V | 95 | 109.4 | 1.1 |
| 5 | *5530.00 | 97.7 AV | | | 1.58 V | 95 | 96.6 | 1.1 |
| 6 | #5725.00 | 53.3 PK | 68.2 | -14.9 | 1.58 V | 95 | 51.7 | 1.6 |
| 7 | 11060.00 | 57.4 PK | 74.0 | -16.6 | 1.81 V | 290 | 46.0 | 11.4 |
| 8 | 11060.00 | 45.7 AV | 54.0 | -8.3 | 1.81 V | 290 | 34.3 | 11.4 |
| 9 | #16590.00 | 53.9 PK | 68.2 | -14.3 | 1.38 V | 115 | 38.6 | 15.3 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE80) | Channel | CH 122：5610 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | *5610.00 | 111.5 PK | | | 1.63 H | 221 | 110.1 | 1.4 |
| 2 | *5610.00 | 99.2 AV | | | 1.63 H | 221 | 97.8 | 1.4 |
| 3 | #5725.00 | 65.2 PK | 68.2 | -3.0 | 1.63 H | 221 | 63.6 | 1.6 |
| 4 | 11220.00 | 56.3 PK | 74.0 | -17.7 | 1.53 H | 143 | 45.0 | 11.3 |
| 5 | 11220.00 | 47.3 AV | 54.0 | -6.7 | 1.53 H | 143 | 36.0 | 11.3 |
| 6 | #16830.00 | 53.1 PK | 68.2 | -15.1 | 1.51 H | 191 | 37.5 | 15.6 |
| **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 | *5610.00 | 115.9 PK | | | 1.55 V | 95 | 114.5 | 1.4 |
| 2 | *5610.00 | 103.4 AV | | | 1.55 V | 95 | 102.0 | 1.4 |
| 3 | #5725.00 | 67.3 PK | 68.2 | -0.9 | 1.55 V | 95 | 65.7 | 1.6 |
| 4 | 11220.00 | 57.3 PK | 74.0 | -16.7 | 1.79 V | 305 | 46.0 | 11.3 |
| 5 | 11220.00 | 45.8 AV | 54.0 | -8.2 | 1.79 V | 305 | 34.5 | 11.3 |
| 6 | #16830.00 | 54.5 PK | 68.2 | -13.7 | 1.44 V | 137 | 38.9 | 15.6 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE80) | Channel | CH 138：5690 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 58.2 PK | 74.0 | -15.8 | 1.65 H | 231 | 57.1 | 1.1 |
| 2 | 5460.00 | 45.2 AV | 54.0 | -8.8 | 1.65 H | 231 | 44.1 | 1.1 |
| 3 | #5470.00 | 62.3 PK | 68.2 | -5.9 | 1.65 H | 231 | 61.2 | 1.1 |
| 4 | *5690.00 | 111.3 PK | | | 1.65 H | 231 | 109.9 | 1.4 |
| 5 | *5690.00 | 99.3 AV | | | 1.65 H | 231 | 97.9 | 1.4 |
| 6 | #5850.00 | 65.7 PK | 68.2 | -2.5 | 1.65 H | 231 | 63.8 | 1.9 |
| 7 | 11380.00 | 56.4 PK | 74.0 | -17.6 | 1.55 H | 126 | 44.4 | 12.0 |
| 8 | 11380.00 | 47.2 AV | 54.0 | -6.8 | 1.55 H | 126 | 35.2 | 12.0 |
| 9 | #17070.00 | 53.9 PK | 68.2 | -14.3 | 1.59 H | 179 | 37.0 | 16.9 |
| **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 | 5460.00 | 59.2 PK | 74.0 | -14.8 | 1.61 V | 95 | 58.1 | 1.1 |
| 2 | 5460.00 | 46.7 AV | 54.0 | -7.3 | 1.61 V | 95 | 45.6 | 1.1 |
| 3 | #5470.00 | 64.6 PK | 68.2 | -3.6 | 1.61 V | 95 | 63.5 | 1.1 |
| 4 | *5690.00 | 115.6 PK | | | 1.61 V | 95 | 114.2 | 1.4 |
| 5 | *5690.00 | 103.8 AV | | | 1.61 V | 95 | 102.4 | 1.4 |
| 6 | #5850.00 | 67.5 PK | 68.2 | -0.7 | 1.61 V | 95 | 65.6 | 1.9 |
| 7 | 11380.00 | 56.8 PK | 74.0 | -17.2 | 1.78 V | 285 | 44.8 | 12.0 |
| 8 | 11380.00 | 45.1 AV | 54.0 | -8.9 | 1.78 V | 285 | 33.1 | 12.0 |
| 9 | #17070.00 | 54.7 PK | 68.2 | -13.5 | 1.44 V | 129 | 37.8 | 16.9 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE80) | Channel | CH 155：5775 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | #5645.87 | 62.7 PK | 68.2 | -5.5 | 1.52 H | 309 | 61.3 | 1.4 |
| 2 | *5775.00 | 110.5 PK | | | 1.52 H | 309 | 108.7 | 1.8 |
| 3 | *5775.00 | 98.4 AV | | | 1.52 H | 309 | 96.6 | 1.8 |
| 4 | #5925.63 | 59.6 PK | 68.2 | -8.6 | 1.52 H | 309 | 57.8 | 1.8 |
| 5 | 11550.00 | 55.3 PK | 74.0 | -18.7 | 1.48 H | 120 | 43.2 | 12.1 |
| 6 | 11550.00 | 45.1 AV | 54.0 | -8.9 | 1.48 H | 120 | 33.0 | 12.1 |
| 7 | #17325.00 | 55.8 PK | 68.2 | -12.4 | 1.36 H | 95 | 39.4 | 16.4 |
| **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 | #5649.81 | 67.1 PK | 68.2 | -1.1 | 1.61 V | 96 | 65.7 | 1.4 |
| 2 | *5775.00 | 115.9 PK | | | 1.61 V | 96 | 114.1 | 1.8 |
| 3 | *5775.00 | 104.5 AV | | | 1.61 V | 96 | 102.7 | 1.8 |
| 4 | #5928.67 | 67.0 PK | 68.2 | -1.2 | 1.61 V | 96 | 65.2 | 1.8 |
| 5 | 11550.00 | 56.6 PK | 74.0 | -17.4 | 1.58 V | 307 | 44.5 | 12.1 |
| 6 | 11550.00 | 45.7 AV | 54.0 | -8.3 | 1.58 V | 307 | 33.6 | 12.1 |
| 7 | #17325.00 | 55.5 PK | 68.2 | -12.7 | 4.00 V | 75 | 39.1 | 16.4 |

**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.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE160) | Channel | CH 50：5250 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5150.00 | 59.6 PK | 74.0 | -14.4 | 1.56 H | 310 | 58.5 | 1.1 |
| 2 | 5150.00 | 45.2 AV | 54.0 | -8.8 | 1.56 H | 310 | 44.1 | 1.1 |
| 3 | *5250.00 | 99.9 PK | | | 1.56 H | 310 | 99.2 | 0.7 |
| 4 | *5250.00 | 90.6 AV | | | 1.56 H | 310 | 89.9 | 0.7 |
| 5 | 5350.00 | 58.0 PK | 74.0 | -16.0 | 1.56 H | 310 | 57.2 | 0.8 |
| 6 | 5350.00 | 45.1 AV | 54.0 | -8.9 | 1.56 H | 310 | 44.3 | 0.8 |
| 7 | 5377.39 | 62.4 PK | 74.0 | -11.6 | 1.56 H | 310 | 61.5 | 0.9 |
| 8 | 5377.39 | 43.8 AV | 54.0 | -10.2 | 1.56 H | 310 | 42.9 | 0.9 |
| 9 | #10500.00 | 56.4 PK | 68.2 | -11.8 | 1.49 H | 143 | 46.2 | 10.2 |
| 10 | 15750.00 | 53.1 PK | 74.0 | -20.9 | 1.53 H | 195 | 41.9 | 11.2 |
| 11 | 15750.00 | 38.7 AV | 54.0 | -15.3 | 1.53 H | 195 | 27.5 | 11.2 |
| **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 | 5150.00 | 69.2 PK | 74.0 | -4.8 | 1.55 V | 88 | 68.1 | 1.1 |
| 2 | 5150.00 | 51.3 AV | 54.0 | -2.7 | 1.55 V | 88 | 50.2 | 1.1 |
| 3 | *5250.00 | 106.6 PK | | | 1.55 V | 88 | 105.9 | 0.7 |
| 4 | *5250.00 | 94.5 AV | | | 1.55 V | 88 | 93.8 | 0.7 |
| 5 | 5350.00 | 64.7 PK | 74.0 | -9.3 | 1.55 V | 88 | 63.9 | 0.8 |
| 6 | 5350.00 | 51.8 AV | 54.0 | -2.2 | 1.55 V | 88 | 51.0 | 0.8 |
| 7 | 5377.39 | 73.4 PK | 74.0 | -0.6 | 1.55 V | 88 | 72.5 | 0.9 |
| 8 | 5377.39 | 50.8 AV | 54.0 | -3.2 | 1.55 V | 88 | 49.9 | 0.9 |
| 9 | #10500.00 | 57.6 PK | 68.2 | -10.6 | 1.81 V | 294 | 47.4 | 10.2 |
| 10 | 15750.00 | 54.4 PK | 74.0 | -19.6 | 1.39 V | 113 | 43.2 | 11.2 |
| 11 | 15750.00 | 40.5 AV | 54.0 | -13.5 | 1.39 V | 113 | 29.3 | 11.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

| RF Mode | TX 802.11ax (HE160) | Channel | CH 114：5570 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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 | 5460.00 | 60.0 PK | 74.0 | -14.0 | 1.44 H | 306 | 58.9 | 1.1 |
| 2 | 5460.00 | 42.3 AV | 54.0 | -11.7 | 1.44 H | 306 | 41.2 | 1.1 |
| 3 | #5470.00 | 62.1 PK | 68.2 | -6.1 | 1.44 H | 306 | 61.0 | 1.1 |
| 4 | *5570.00 | 100.8 PK | | | 1.44 H | 306 | 99.5 | 1.3 |
| 5 | *5570.00 | 89.2 AV | | | 1.44 H | 306 | 87.9 | 1.3 |
| 6 | #5725.00 | 57.8 PK | 68.2 | -10.4 | 1.44 H | 306 | 56.2 | 1.6 |
| 7 | 11140.00 | 55.3 PK | 74.0 | -18.7 | 1.54 H | 139 | 44.0 | 11.3 |
| 8 | 11140.00 | 46.5 AV | 54.0 | -7.5 | 1.54 H | 139 | 35.2 | 11.3 |
| 9 | #16710.00 | 53.4 PK | 68.2 | -14.8 | 1.51 H | 185 | 38.2 | 15.2 |
| **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 | 5460.00 | 66.8 PK | 74.0 | -7.2 | 1.56 V | 95 | 65.7 | 1.1 |
| 2 | 5460.00 | 47.1 AV | 54.0 | -6.9 | 1.56 V | 95 | 46.0 | 1.1 |
| 3 | #5470.00 | 67.5 PK | 68.2 | -0.7 | 1.56 V | 95 | 66.4 | 1.1 |
| 4 | *5570.00 | 105.5 PK | | | 1.56 V | 95 | 104.2 | 1.3 |
| 5 | *5570.00 | 94.6 AV | | | 1.56 V | 95 | 93.3 | 1.3 |
| 6 | #5725.00 | 65.3 PK | 68.2 | -2.9 | 1.56 V | 95 | 63.7 | 1.6 |
| 7 | 11140.00 | 55.3 PK | 74.0 | -18.7 | 1.75 V | 309 | 44.0 | 11.3 |
| 8 | 11140.00 | 43.2 AV | 54.0 | -10.8 | 1.75 V | 309 | 31.9 | 11.3 |
| 9 | #16710.00 | 54.7 PK | 68.2 | -13.5 | 1.43 V | 137 | 39.5 | 15.2 |

**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.
6. " # ": The radiated frequency is out of the restricted band.

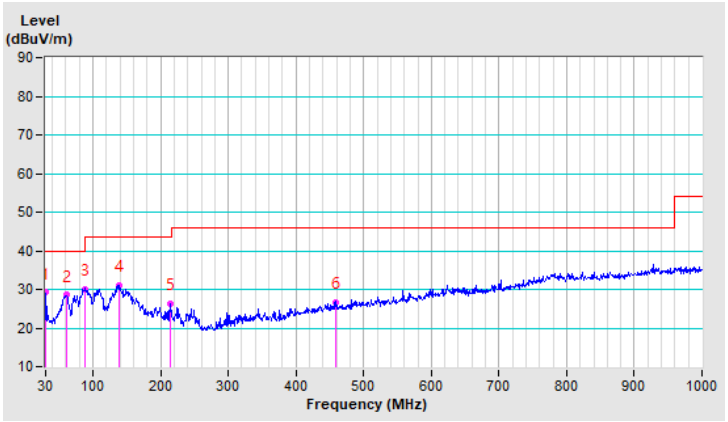
## Below 1GHz Data:

| RF Mode | TX 802.11ax (HE20) | Channel | CH 149：5745 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| 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 | 30.55 | 29.2 QP | 40.0 | -10.8 | 1.50 H | 11 | 42.8 | -13.6 |
| 2 | 60.86 | 28.5 QP | 40.0 | -11.5 | 1.50 H | 16 | 41.9 | -13.4 |
| 3 | 88.38 | 30.1 QP | 43.5 | -13.4 | 2.50 H | 241 | 48.5 | -18.4 |
| 4 | 139.54 | 31.1 QP | 43.5 | -12.4 | 2.00 H | 257 | 43.5 | -12.4 |
| 5 | 214.26 | 26.3 QP | 43.5 | -17.2 | 2.00 H | 124 | 41.4 | -15.1 |
| 6 | 459.05 | 26.6 QP | 46.0 | -19.4 | 1.50 H | 77 | 32.4 | -5.8 |

**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 of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

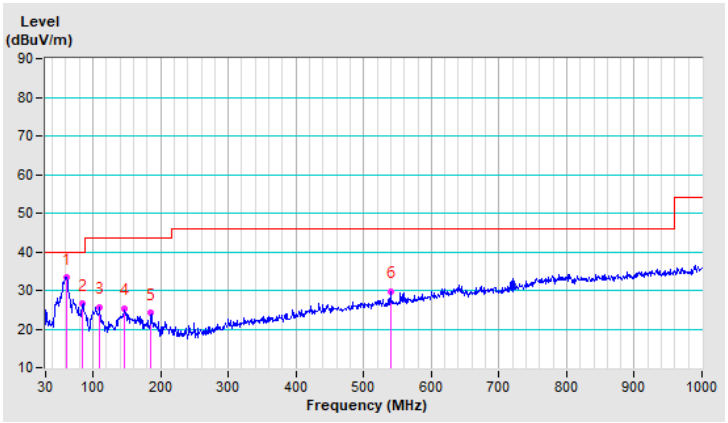


| RF Mode | TX 802.11ax (HE20) | Channel | CH 149：5745 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| 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 | 61.20 | 33.3 QP | 40.0 | -6.7 | 1.00 V | 248 | 46.8 | -13.5 |
| 2 | 85.25 | 26.5 QP | 40.0 | -13.5 | 1.50 V | 78 | 44.8 | -18.3 |
| 3 | 110.40 | 25.7 QP | 43.5 | -17.8 | 1.00 V | 193 | 40.8 | -15.1 |
| 4 | 147.07 | 25.2 QP | 43.5 | -18.3 | 1.50 V | 221 | 37.1 | -11.9 |
| 5 | 186.12 | 24.1 QP | 43.5 | -19.4 | 1.00 V | 142 | 38.4 | -14.3 |
| 6 | 540.01 | 29.6 QP | 46.0 | -16.4 | 1.00 V | 174 | 33.7 | -4.1 |

**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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

| 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 |

Note: 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 0.50MHz.

### 4.2.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Test Receiver R&S | ESCS 30 | 847124/029 | Oct. 20, 2020 | Oct. 19, 2021 |
| Line-Impedance Stabilization Network (for EUT) R&S | ESH3-Z5 | 848773/004 | Oct. 27, 2020 | Oct. 26, 2021 |
| Line-Impedance Stabilization Network (for Peripheral) R&S | ESH3-Z5 | 835239/001 | Mar. 26, 2021 | Mar. 25, 2022 |
| 50 ohms Terminator | 50 | 3 | Oct. 26, 2020 | Oct. 25, 2021 |
| RF Cable | 5D-FB | COCCAB-001 | Sep. 26, 2020 | Sep. 25, 2021 |
| Fixed attenuator EMCI | STI02-2200-10 | 005 | Aug. 29, 2020 | Aug. 28, 2021 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | NA | NA | NA |

**Note:**
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3 Tested Date: May 07, 2021

4.2.3 Test Procedure

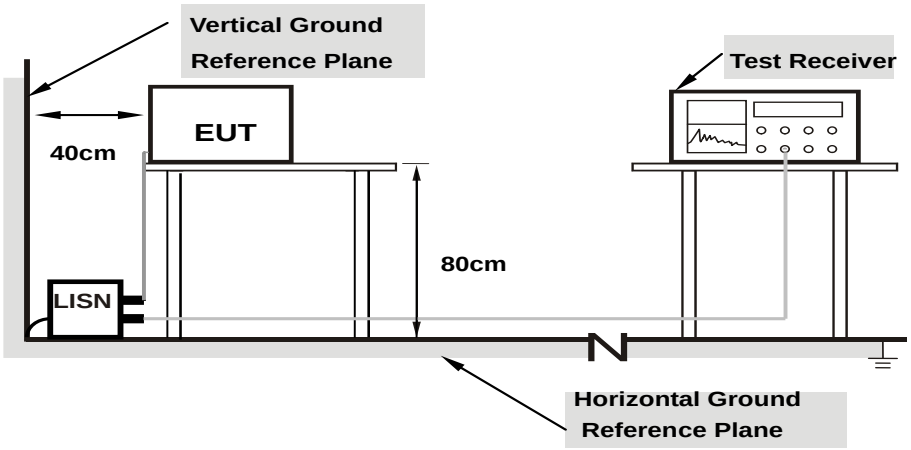
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

**Note:** All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Condition

Same as 4.1.6.

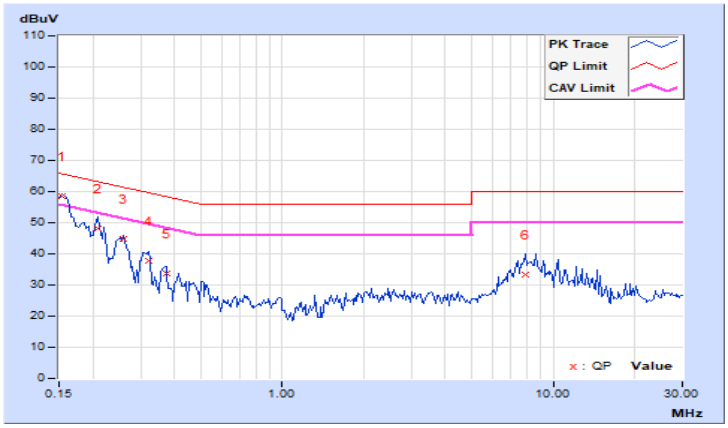
4.2.7 Test Results

| RF Mode | TX 802.11ax (HE20) | Channel | CH 149：5745 MHz |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |

| 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** | **0.15391** | **9.96** | **48.42** | **35.16** | **58.38** | **45.12** | **65.79** | **55.79** | **-7.41** | **-10.67** |
| 2 | 0.20859 | 9.99 | 38.21 | 25.33 | 48.20 | 35.32 | 63.26 | 53.26 | -15.06 | -17.94 |
| 3 | 0.25938 | 10.00 | 34.63 | 24.25 | 44.63 | 34.25 | 61.45 | 51.45 | -16.82 | -17.20 |
| 4 | 0.32188 | 10.01 | 27.79 | 11.78 | 37.80 | 21.79 | 59.66 | 49.66 | -21.86 | -27.87 |
| 5 | 0.37266 | 10.02 | 23.67 | 10.47 | 33.69 | 20.49 | 58.44 | 48.44 | -24.75 | -27.95 |
| 6 | 7.92969 | 10.57 | 22.81 | 15.47 | 33.38 | 26.04 | 60.00 | 50.00 | -26.62 | -23.96 |

**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

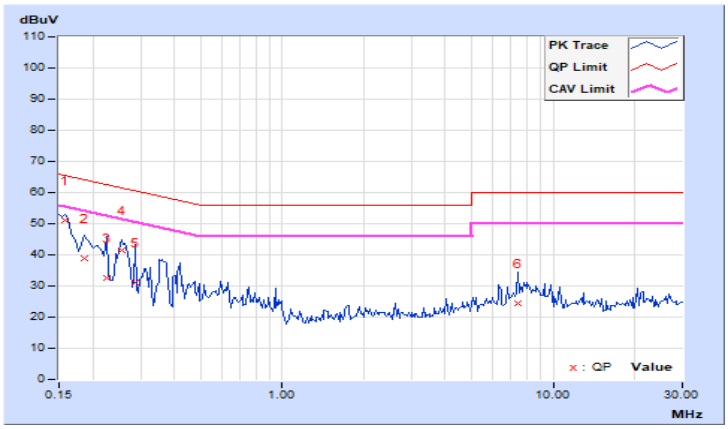


| RF Mode | TX 802.11ax (HE20) | Channel | CH 149：5745 MHz |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |

| 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 | 0.15781 | 9.95 | 41.08 | 28.55 | 51.03 | 38.50 | 65.58 | 55.58 | -14.55 | -17.08 |
| 2 | 0.18516 | 9.97 | 28.83 | 14.64 | 38.80 | 24.61 | 64.25 | 54.25 | -25.45 | -29.64 |
| 3 | 0.22422 | 9.98 | 22.73 | 9.41 | 32.71 | 19.39 | 62.66 | 52.66 | -29.95 | -33.27 |
| 4 | 0.25547 | 9.99 | 31.42 | 22.46 | 41.41 | 32.45 | 61.58 | 51.58 | -20.17 | -19.13 |
| 5 | 0.28672 | 9.99 | 20.96 | 5.52 | 30.95 | 15.51 | 60.62 | 50.62 | -29.67 | -35.11 |
| 6 | 7.44531 | 10.46 | 13.81 | 6.92 | 24.27 | 17.38 | 60.00 | 50.00 | -35.73 | -32.62 |

**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



## 4.3 Transmit Power Measurement

### 4.3.1 Limits of Transmit Power Measurement

| Operation Band | EUT Category | | Limit |
|---|---|---|---|
| U-NII-1 | | Outdoor Access Point | 1 Watt (30 dBm)<br>(Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
| | | Fixed point-to-point Access Point | 1 Watt (30 dBm) |
| | √ | Indoor Access Point | 1 Watt (30 dBm) |
| | | Client device | 250mW (24 dBm) |
| U-NII-2A | √ | | 250mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-2C | √ | | 250mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-3 | √ | | 1 Watt (30 dBm) |

*B is the 26 dB emission bandwidth in megahertz

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

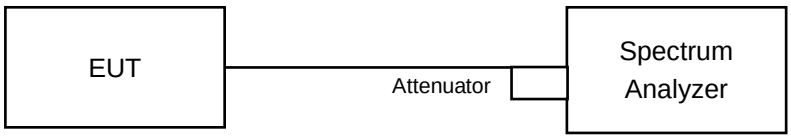
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any $N_{ANT}$;
Array Gain = 5 log($N_{ANT}$/$N_{SS}$) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

### 4.3.2 Test Setup

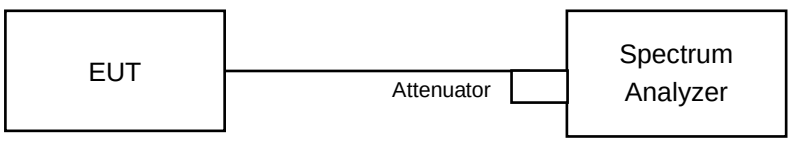
**FOR POWER OUTPUT MEASUREMENT**

**For channel straddling 5250MHz & 5725MHz:**




**For other channels:**


**FOR 26dB OCCUPIED BANDWIDTH**



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

**FOR POWER OUTPUT MEASUREMENT**

**For channel straddling 5250MHz & 5725MHz:**

**For other modulation mode**

Follow FCC KDB 789033 UNII test procedure:

Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

**For 802.11ac (VHT160) & 802.11ax (HE160) mode**

Follow FCC KDB 789033 UNII test procedure:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

**For other channels:**

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. Duty factor is not added to measured value.

**FOR 26dB OCCUPIED BANDWIDTH**

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Results

**CDD Mode**

**Power Output:**

**802.11a**

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 22.48 | 22.02 | 22.96 | 22.73 | 721.428 | 28.58 | 30 | Pass |
| 40 | 5200 | 23.71 | 24.24 | 23.22 | 24.09 | 966.766 | 29.85 | 30 | Pass |
| 48 | 5240 | 24.33 | 23.84 | 23.38 | 23.69 | 964.777 | 29.84 | 30 | Pass |
| 52 | 5260 | 17.30 | 16.67 | 16.79 | 17.34 | 202.108 | 23.06 | 24 | Pass |
| 60 | 5300 | 17.57 | 16.57 | 16.79 | 16.91 | 199.386 | 23.00 | 24 | Pass |
| 64 | 5320 | 17.43 | 16.26 | 16.61 | 17.59 | 200.828 | 23.03 | 24 | Pass |
| 100 | 5500 | 17.21 | 16.69 | 17.07 | 17.03 | 200.667 | 23.02 | 24 | Pass |
| 116 | 5580 | 17.31 | 17.09 | 16.65 | 17.28 | 204.69 | 23.11 | 24 | Pass |
| 140 | 5700 | 17.22 | 16.75 | 16.99 | 17.31 | 203.869 | 23.09 | 24 | Pass |
| *144 (U-NII-2C Band) | 5720 | 16.13 | 15.78 | 16.20 | 16.13 | 161.572 | 22.08 | 22.93 | Pass |
| *144 (U-NII-3 Band) | 5720 | 10.34 | 9.92 | 10.32 | 10.01 | 41.42 | 16.17 | 30 | Pass |
| 149 | 5745 | 23.67 | 23.65 | 23.44 | 24.73 | 982.516 | 29.92 | 30 | Pass |
| 157 | 5785 | 23.98 | 23.93 | 23.52 | 24.10 | 979.152 | 29.91 | 30 | Pass |
| 165 | 5825 | 23.80 | 23.53 | 23.92 | 24.30 | 981.065 | 29.92 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52 | 5260 | 21.64 | 24.35 > 24 |
| 60 | 5300 | 21.64 | 24.35 > 24 |
| 64 | 5320 | 21.59 | 24.34 > 24 |
| 100 | 5500 | 21.67 | 24.35 > 24 |
| 116 | 5580 | 21.6 | 24.34 > 24 |
| 140 | 5700 | 21.64 | 24.35 > 24 |
| 144 (U-NII-2C Band) | 5720 | 15.62 | 22.93 < 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 21.56 | 21.09 | 21.01 | 20.98 | 523.244 | 27.19 | 30 | Pass |
| 40 | 5200 | 23.82 | 23.25 | 23.29 | 23.77 | 903.876 | 29.56 | 30 | Pass |
| 48 | 5240 | 23.30 | 22.55 | 22.99 | 22.56 | 773.052 | 28.88 | 30 | Pass |
| 52 | 5260 | 17.48 | 17.01 | 16.98 | 17.28 | 209.555 | 23.21 | 24 | Pass |
| 60 | 5300 | 17.47 | 16.93 | 16.79 | 17.66 | 211.262 | 23.25 | 24 | Pass |
| 64 | 5320 | 17.49 | 16.17 | 16.84 | 17.85 | 206.764 | 23.15 | 24 | Pass |
| 100 | 5500 | 17.28 | 17.65 | 16.78 | 17.57 | 216.458 | 23.35 | 24 | Pass |
| 116 | 5580 | 17.58 | 17.47 | 16.29 | 17.86 | 216.781 | 23.36 | 24 | Pass |
| 140 | 5700 | 17.30 | 17.66 | 16.22 | 17.12 | 205.45 | 23.13 | 24 | Pass |
| *144 (U-NII-2C Band) | 5720 | 15.92 | 16.11 | 16.53 | 16.29 | 167.454 | 22.24 | 22.97 | Pass |
| *144 (U-NII-3 Band) | 5720 | 10.99 | 11.01 | 11.41 | 11.20 | 52.197 | 17.18 | 30 | Pass |
| 149 | 5745 | 23.93 | 23.50 | 23.05 | 23.88 | 917.224 | 29.62 | 30 | Pass |
| 157 | 5785 | 22.73 | 23.69 | 23.32 | 24.29 | 904.701 | 29.57 | 30 | Pass |
| 165 | 5825 | 23.27 | 23.70 | 23.30 | 23.79 | 899.875 | 29.54 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52 | 5260 | 21.69 | 24.36 > 24 |
| 60 | 5300 | 21.64 | 24.35 > 24 |
| 64 | 5320 | 21.69 | 24.36 > 24 |
| 100 | 5500 | 21.76 | 24.37 > 24 |
| 116 | 5580 | 21.7 | 24.36 > 24 |
| 140 | 5700 | 21.64 | 24.35 > 24 |
| 144 (U-NII-2C Band) | 5720 | 15.77 | 22.97 < 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 38 | 5190 | 16.14 | 16.59 | 16.05 | 16.29 | 169.55 | 22.29 | 30 | Pass |
| 46 | 5230 | 23.62 | 21.76 | 22.94 | 22.96 | 774.598 | 28.89 | 30 | Pass |
| 54 | 5270 | 18.13 | 17.91 | 17.06 | 17.12 | 229.153 | 23.60 | 24 | Pass |
| 62 | 5310 | 15.87 | 16.46 | 15.23 | 14.90 | 147.141 | 21.68 | 24 | Pass |
| 102 | 5510 | 17.16 | 16.72 | 15.99 | 16.35 | 181.86 | 22.60 | 24 | Pass |
| 110 | 5550 | 17.88 | 17.61 | 17.02 | 17.63 | 227.346 | 23.57 | 24 | Pass |
| 134 | 5670 | 17.52 | 17.97 | 17.30 | 17.47 | 228.705 | 23.59 | 24 | Pass |
| *142 (U-NII-2C Band) | 5710 | 16.08 | 16.35 | 15.97 | 16.44 | 167.295 | 22.23 | 24 | Pass |
| *142 (U-NII-3 Band) | 5710 | 6.76 | 6.87 | 6.34 | 6.88 | 18.787 | 12.74 | 30 | Pass |
| 151 | 5755 | 23.76 | 23.69 | 23.20 | 23.19 | 888.946 | 29.49 | 30 | Pass |
| 159 | 5795 | 23.97 | 23.51 | 23.50 | 23.11 | 902.364 | 29.55 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 54 | 5270 | 41.25 | 27.15 > 24 |
| 62 | 5310 | 41.31 | 27.16 > 24 |
| 102 | 5510 | 41.27 | 27.15 > 24 |
| 110 | 5550 | 41.26 | 27.15 > 24 |
| 134 | 5670 | 41.27 | 27.15 > 24 |
| 142 (U-NII-2C Band) | 5710 | 35.59 | 26.51 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | 15.88 | 16.13 | 15.05 | 15.81 | 149.842 | 21.76 | 30 | Pass |
| 58 | 5290 | 16.07 | 15.43 | 15.66 | 16.39 | 155.736 | 21.92 | 24 | Pass |
| 106 | 5530 | 16.15 | 16.01 | 15.68 | 16.34 | 161.148 | 22.07 | 24 | Pass |
| 122 | 5610 | 17.67 | 17.43 | 17.25 | 17.51 | 223.266 | 23.49 | 24 | Pass |
| *138 (U-NII-2C Band) | 5690 | 16.19 | 15.96 | 15.86 | 16.01 | 159.487 | 22.03 | 24 | Pass |
| *138 (U-NII-3 Band) | 5690 | 3.10 | 2.74 | 2.52 | 2.87 | 7.644 | 8.83 | 30 | Pass |
| 155 | 5775 | 21.96 | 22.10 | 22.08 | 22.30 | 650.478 | 28.13 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 58 | 5290 | 82.37 | 30.15 > 24 |
| 106 | 5530 | 82.27 | 30.15 > 24 |
| 122 | 5610 | 82.19 | 30.14 > 24 |
| 138 (U-NII-2C Band) | 5690 | 75.99 | 29.8 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ac (VHT160)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| *50 (U-NII-1 Band) | 5250 | 11.30 | 11.31 | 11.29 | 11.86 | 57.36 | 17.59 | 30 | Pass |
| *50 (U-NII-2A Band) | 5250 | 11.83 | 11.73 | 12.02 | 12.39 | 65.149 | 18.14 | 24 | Pass |
| 114 | 5570 | 14.01 | 14.70 | 14.66 | 14.64 | 113.038 | 20.53 | 24 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 50 (U-NII-2A Band) | 5250 | 83.77 | 30.23 > 24 |
| 114 | 5570 | 167.9 | 33.25 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 21.95 | 21.48 | 21.40 | 21.35 | 571.777 | 27.57 | 30 | Pass |
| 40 | 5200 | 24.13 | 23.60 | 23.66 | 24.12 | 978.408 | 29.91 | 30 | Pass |
| 48 | 5240 | 23.63 | 22.90 | 23.37 | 22.96 | 840.626 | 29.25 | 30 | Pass |
| 52 | 5260 | 17.69 | 17.30 | 17.18 | 17.53 | 221.316 | 23.45 | 24 | Pass |
| 60 | 5300 | 17.76 | 17.14 | 17.06 | 17.87 | 223.515 | 23.49 | 24 | Pass |
| 64 | 5320 | 17.71 | 16.41 | 17.12 | 18.12 | 219.159 | 23.41 | 24 | Pass |
| 100 | 5500 | 17.61 | 18.01 | 17.13 | 17.92 | 234.504 | 23.70 | 24 | Pass |
| 116 | 5580 | 17.93 | 17.85 | 16.61 | 18.17 | 234.469 | 23.70 | 24 | Pass |
| 140 | 5700 | 17.81 | 18.06 | 16.65 | 17.48 | 226.582 | 23.55 | 24 | Pass |
| *144 (U-NII-2C Band) | 5720 | 16.41 | 16.28 | 16.80 | 16.50 | 178.746 | 22.52 | 22.97 | Pass |
| *144 (U-NII-3 Band) | 5720 | 11.26 | 11.22 | 11.72 | 11.39 | 55.241 | 17.42 | 30 | Pass |
| 149 | 5745 | 24.27 | 23.83 | 23.40 | 24.18 | 989.441 | 29.95 | 30 | Pass |
| 157 | 5785 | 23.11 | 24.04 | 23.71 | 24.65 | 984.863 | 29.93 | 30 | Pass |
| 165 | 5825 | 23.61 | 24.08 | 23.62 | 24.15 | 975.634 | 29.89 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52 | 5260 | 21.69 | 24.36 > 24 |
| 60 | 5300 | 21.64 | 24.35 > 24 |
| 64 | 5320 | 21.69 | 24.36 > 24 |
| 100 | 5500 | 21.76 | 24.37 > 24 |
| 116 | 5580 | 21.7 | 24.36 > 24 |
| 140 | 5700 | 21.64 | 24.35 > 24 |
| 144 (U-NII-2C Band) | 5720 | 15.77 | 22.97 < 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 38 | 5190 | 16.53 | 16.94 | 16.39 | 16.66 | 184.305 | 22.66 | 30 | Pass |
| 46 | 5230 | 23.96 | 22.15 | 23.28 | 23.28 | 838.573 | 29.24 | 30 | Pass |
| 54 | 5270 | 18.46 | 18.26 | 17.42 | 17.43 | 247.677 | 23.94 | 24 | Pass |
| 62 | 5310 | 16.20 | 16.80 | 15.57 | 15.24 | 159.027 | 22.01 | 24 | Pass |
| 102 | 5510 | 17.52 | 17.12 | 16.39 | 16.66 | 197.912 | 22.96 | 24 | Pass |
| 110 | 5550 | 18.25 | 17.95 | 17.39 | 18.02 | 247.423 | 23.93 | 24 | Pass |
| 134 | 5670 | 17.84 | 18.33 | 17.67 | 17.82 | 247.904 | 23.94 | 24 | Pass |
| *142 (U-NII-2C Band) | 5710 | 16.57 | 16.81 | 16.45 | 16.66 | 183.869 | 22.65 | 24 | Pass |
| *142 (U-NII-3 Band) | 5710 | 7.06 | 7.19 | 6.76 | 7.09 | 20.177 | 13.05 | 30 | Pass |
| 151 | 5755 | 24.11 | 24.06 | 23.58 | 23.56 | 967.336 | 29.86 | 30 | Pass |
| 159 | 5795 | 24.29 | 23.90 | 23.83 | 23.49 | 978.909 | 29.91 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 54 | 5270 | 41.25 | 27.15 > 24 |
| 62 | 5310 | 41.31 | 27.16 > 24 |
| 102 | 5510 | 41.27 | 27.15 > 24 |
| 110 | 5550 | 41.26 | 27.15 > 24 |
| 134 | 5670 | 41.27 | 27.15 > 24 |
| 142 (U-NII-2C Band) | 5710 | 35.59 | 26.51 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | 16.24 | 16.53 | 15.39 | 16.14 | 162.76 | 22.12 | 30 | Pass |
| 58 | 5290 | 16.40 | 15.76 | 16.00 | 16.78 | 168.776 | 22.27 | 24 | Pass |
| 106 | 5530 | 16.47 | 16.35 | 16.03 | 16.70 | 174.373 | 22.41 | 24 | Pass |
| 122 | 5610 | 18.05 | 17.78 | 17.64 | 17.81 | 242.277 | 23.84 | 24 | Pass |
| *138 (U-NII-2C Band) | 5690 | 16.82 | 16.37 | 16.16 | 16.55 | 177.925 | 22.50 | 24 | Pass |
| *138 (U-NII-3 Band) | 5690 | 3.83 | 3.07 | 2.93 | 3.40 | 8.594 | 9.34 | 30 | Pass |
| 155 | 5775 | 22.10 | 22.46 | 22.42 | 22.78 | 702.631 | 28.47 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 58 | 5290 | 82.37 | 30.15 > 24 |
| 106 | 5530 | 82.27 | 30.15 > 24 |
| 122 | 5610 | 82.19 | 30.14 > 24 |
| 138 (U-NII-2C Band) | 5690 | 75.99 | 29.8 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| *50 (U-NII-1 Band) | 5250 | 11.61 | 11.84 | 11.62 | 11.99 | 61.761 | 17.91 | 30 | Pass |
| *50 (U-NII-2A Band) | 5250 | 12.16 | 12.12 | 11.38 | 12.58 | 66.379 | 18.22 | 24 | Pass |
| 114 | 5570 | 14.38 | 15.06 | 15.05 | 14.96 | 122.8 | 20.89 | 24 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 50 (U-NII-2A Band) | 5250 | 83.77 | 30.23 > 24 |
| 114 | 5570 | 167.9 | 33.25 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

**Beamforming Mode**

**Power Output:**

**802.11ac (VHT20)**

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 21.56 | 21.09 | 21.01 | 20.98 | 523.244 | 27.19 | 30 | Pass |
| 40 | 5200 | 23.82 | 23.25 | 23.29 | 23.77 | 903.876 | 29.56 | 30 | Pass |
| 48 | 5240 | 23.30 | 22.55 | 22.99 | 22.56 | 773.052 | 28.88 | 30 | Pass |
| 52 | 5260 | 17.48 | 17.01 | 16.98 | 17.28 | 209.555 | 23.21 | 24 | Pass |
| 60 | 5300 | 17.47 | 16.93 | 16.79 | 17.66 | 211.262 | 23.25 | 24 | Pass |
| 64 | 5320 | 17.49 | 16.17 | 16.84 | 17.85 | 206.764 | 23.15 | 24 | Pass |
| 100 | 5500 | 17.28 | 17.65 | 16.78 | 17.57 | 216.458 | 23.35 | 24 | Pass |
| 116 | 5580 | 17.58 | 17.47 | 16.29 | 17.86 | 216.781 | 23.36 | 24 | Pass |
| 140 | 5700 | 17.30 | 17.66 | 16.22 | 17.12 | 205.45 | 23.13 | 24 | Pass |
| *144 (U-NII-2C Band) | 5720 | 15.92 | 16.11 | 16.53 | 16.29 | 167.454 | 22.24 | 22.97 | Pass |
| *144 (U-NII-3 Band) | 5720 | 10.99 | 11.01 | 11.41 | 11.20 | 52.197 | 17.18 | 30 | Pass |
| 149 | 5745 | 23.93 | 23.50 | 23.05 | 23.88 | 917.224 | 29.62 | 30 | Pass |
| 157 | 5785 | 22.73 | 23.69 | 23.32 | 24.29 | 904.701 | 29.57 | 30 | Pass |
| 165 | 5825 | 23.27 | 23.70 | 23.30 | 23.79 | 899.875 | 29.54 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 3.18dBi < 6dBi, so the power limit shall not be reduced.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52 | 5260 | 21.69 | 24.36 > 24 |
| 60 | 5300 | 21.64 | 24.35 > 24 |
| 64 | 5320 | 21.69 | 24.36 > 24 |
| 100 | 5500 | 21.76 | 24.37 > 24 |
| 116 | 5580 | 21.7 | 24.36 > 24 |
| 140 | 5700 | 21.64 | 24.35 > 24 |
| 144 (U-NII-2C Band) | 5720 | 15.77 | 22.97 < 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 38 | 5190 | 16.14 | 16.59 | 16.05 | 16.29 | 169.55 | 22.29 | 30 | Pass |
| 46 | 5230 | 23.62 | 21.76 | 22.94 | 22.96 | 774.598 | 28.89 | 30 | Pass |
| 54 | 5270 | 18.13 | 17.91 | 17.06 | 17.12 | 229.153 | 23.60 | 24 | Pass |
| 62 | 5310 | 15.87 | 16.46 | 15.23 | 14.90 | 147.141 | 21.68 | 24 | Pass |
| 102 | 5510 | 17.16 | 16.72 | 15.99 | 16.35 | 181.86 | 22.60 | 24 | Pass |
| 110 | 5550 | 17.88 | 17.61 | 17.02 | 17.63 | 227.346 | 23.57 | 24 | Pass |
| 134 | 5670 | 17.52 | 17.97 | 17.30 | 17.47 | 228.705 | 23.59 | 24 | Pass |
| *142 (U-NII-2C Band) | 5710 | 16.08 | 16.35 | 15.97 | 16.44 | 167.295 | 22.23 | 24 | Pass |
| *142 (U-NII-3 Band) | 5710 | 6.76 | 6.87 | 6.34 | 6.88 | 18.787 | 12.74 | 30 | Pass |
| 151 | 5755 | 23.76 | 23.69 | 23.20 | 23.19 | 888.946 | 29.49 | 30 | Pass |
| 159 | 5795 | 23.97 | 23.51 | 23.50 | 23.11 | 902.364 | 29.55 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 3.18dBi < 6dBi, so the power limit shall not be reduced.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 54 | 5270 | 41.25 | 27.15 > 24 |
| 62 | 5310 | 41.31 | 27.16 > 24 |
| 102 | 5510 | 41.27 | 27.15 > 24 |
| 110 | 5550 | 41.26 | 27.15 > 24 |
| 134 | 5670 | 41.27 | 27.15 > 24 |
| 142 (U-NII-2C Band) | 5710 | 35.59 | 26.51 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | 15.88 | 16.13 | 15.05 | 15.81 | 149.842 | 21.76 | 30 | Pass |
| 58 | 5290 | 16.07 | 15.43 | 15.66 | 16.39 | 155.736 | 21.92 | 24 | Pass |
| 106 | 5530 | 16.15 | 16.01 | 15.68 | 16.34 | 161.148 | 22.07 | 24 | Pass |
| 122 | 5610 | 17.67 | 17.43 | 17.25 | 17.51 | 223.266 | 23.49 | 24 | Pass |
| *138 (U-NII-2C Band) | 5690 | 16.19 | 15.96 | 15.86 | 16.01 | 159.487 | 22.03 | 24 | Pass |
| *138 (U-NII-3 Band) | 5690 | 3.10 | 2.74 | 2.52 | 2.87 | 7.644 | 8.83 | 30 | Pass |
| 155 | 5775 | 21.96 | 22.10 | 22.08 | 22.30 | 650.478 | 28.13 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 3.18dBi < 6dBi, so the power limit shall not be reduced.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 58 | 5290 | 82.37 | 30.15 > 24 |
| 106 | 5530 | 82.27 | 30.15 > 24 |
| 122 | 5610 | 82.19 | 30.14 > 24 |
| 138 (U-NII-2C Band) | 5690 | 75.99 | 29.8 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ac (VHT160)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| *50 (U-NII-1 Band) | 5250 | 11.30 | 11.31 | 11.29 | 11.86 | 57.36 | 17.59 | 30 | Pass |
| *50 (U-NII-2A Band) | 5250 | 11.83 | 11.73 | 12.02 | 12.39 | 65.149 | 18.14 | 24 | Pass |
| 114 | 5570 | 14.01 | 14.70 | 14.66 | 14.64 | 113.038 | 20.53 | 24 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 50 (U-NII-2A Band) | 5250 | 83.77 | 30.23 > 24 |
| 114 | 5570 | 167.9 | 33.25 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 21.95 | 21.48 | 21.40 | 21.35 | 571.777 | 27.57 | 30 | Pass |
| 40 | 5200 | 24.13 | 23.60 | 23.66 | 24.12 | 978.408 | 29.91 | 30 | Pass |
| 48 | 5240 | 23.63 | 22.90 | 23.37 | 22.96 | 840.626 | 29.25 | 30 | Pass |
| 52 | 5260 | 17.69 | 17.30 | 17.18 | 17.53 | 221.316 | 23.45 | 24 | Pass |
| 60 | 5300 | 17.76 | 17.14 | 17.06 | 17.87 | 223.515 | 23.49 | 24 | Pass |
| 64 | 5320 | 17.71 | 16.41 | 17.12 | 18.12 | 219.159 | 23.41 | 24 | Pass |
| 100 | 5500 | 17.61 | 18.01 | 17.13 | 17.92 | 234.504 | 23.70 | 24 | Pass |
| 116 | 5580 | 17.93 | 17.85 | 16.61 | 18.17 | 234.469 | 23.70 | 24 | Pass |
| 140 | 5700 | 17.81 | 18.06 | 16.65 | 17.48 | 226.582 | 23.55 | 24 | Pass |
| *144 (U-NII-2C Band) | 5720 | 16.41 | 16.28 | 16.80 | 16.50 | 178.746 | 22.52 | 22.97 | Pass |
| *144 (U-NII-3 Band) | 5720 | 11.26 | 11.22 | 11.72 | 11.39 | 55.241 | 17.42 | 30 | Pass |
| 149 | 5745 | 24.27 | 23.83 | 23.40 | 24.18 | 989.441 | 29.95 | 30 | Pass |
| 157 | 5785 | 23.11 | 24.04 | 23.71 | 24.65 | 984.863 | 29.93 | 30 | Pass |
| 165 | 5825 | 23.61 | 24.08 | 23.62 | 24.15 | 975.634 | 29.89 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 3.18dBi < 6dBi, so the power limit shall not be reduced.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52 | 5260 | 21.69 | 24.36 > 24 |
| 60 | 5300 | 21.64 | 24.35 > 24 |
| 64 | 5320 | 21.69 | 24.36 > 24 |
| 100 | 5500 | 21.76 | 24.37 > 24 |
| 116 | 5580 | 21.7 | 24.36 > 24 |
| 140 | 5700 | 21.64 | 24.35 > 24 |
| 144 (U-NII-2C Band) | 5720 | 15.77 | 22.97 < 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 38 | 5190 | 16.53 | 16.94 | 16.39 | 16.66 | 184.305 | 22.66 | 30 | Pass |
| 46 | 5230 | 23.96 | 22.15 | 23.28 | 23.28 | 838.573 | 29.24 | 30 | Pass |
| 54 | 5270 | 18.46 | 18.26 | 17.42 | 17.43 | 247.677 | 23.94 | 24 | Pass |
| 62 | 5310 | 16.20 | 16.80 | 15.57 | 15.24 | 159.027 | 22.01 | 24 | Pass |
| 102 | 5510 | 17.52 | 17.12 | 16.39 | 16.66 | 197.912 | 22.96 | 24 | Pass |
| 110 | 5550 | 18.25 | 17.95 | 17.39 | 18.02 | 247.423 | 23.93 | 24 | Pass |
| 134 | 5670 | 17.84 | 18.33 | 17.67 | 17.82 | 247.904 | 23.94 | 24 | Pass |
| *142 (U-NII-2C Band) | 5710 | 16.57 | 16.81 | 16.45 | 16.66 | 183.869 | 22.65 | 24 | Pass |
| *142 (U-NII-3 Band) | 5710 | 7.06 | 7.19 | 6.76 | 7.09 | 20.177 | 13.05 | 30 | Pass |
| 151 | 5755 | 24.11 | 24.06 | 23.58 | 23.56 | 967.336 | 29.86 | 30 | Pass |
| 159 | 5795 | 24.29 | 23.90 | 23.83 | 23.49 | 978.909 | 29.91 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 3.18dBi < 6dBi, so the power limit shall not be reduced.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 54 | 5270 | 41.25 | 27.15 > 24 |
| 62 | 5310 | 41.31 | 27.16 > 24 |
| 102 | 5510 | 41.27 | 27.15 > 24 |
| 110 | 5550 | 41.26 | 27.15 > 24 |
| 134 | 5670 | 41.27 | 27.15 > 24 |
| 142 (U-NII-2C Band) | 5710 | 35.59 | 26.51 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | 16.24 | 16.53 | 15.39 | 16.14 | 162.76 | 22.12 | 30 | Pass |
| 58 | 5290 | 16.40 | 15.76 | 16.00 | 16.78 | 168.776 | 22.27 | 24 | Pass |
| 106 | 5530 | 16.47 | 16.35 | 16.03 | 16.70 | 174.373 | 22.41 | 24 | Pass |
| 122 | 5610 | 18.05 | 17.78 | 17.64 | 17.81 | 242.277 | 23.84 | 24 | Pass |
| *138 (U-NII-2C Band) | 5690 | 16.82 | 16.37 | 16.16 | 16.55 | 177.925 | 22.50 | 24 | Pass |
| *138 (U-NII-3 Band) | 5690 | 3.83 | 3.07 | 2.93 | 3.40 | 8.594 | 9.34 | 30 | Pass |
| 155 | 5775 | 22.10 | 22.46 | 22.42 | 22.78 | 702.631 | 28.47 | 30 | Pass |

Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.
4. For U-NII-3: The directional gain = 3.18dBi < 6dBi, so the power limit shall not be reduced.

| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 58 | 5290 | 82.37 | 30.15 > 24 |
| 106 | 5530 | 82.27 | 30.15 > 24 |
| 122 | 5610 | 82.19 | 30.14 > 24 |
| 138 (U-NII-2C Band) | 5690 | 75.99 | 29.8 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| *50 (U-NII-1 Band) | 5250 | 11.61 | 11.84 | 11.62 | 11.99 | 61.761 | 17.91 | 30 | Pass |
| *50 (U-NII-2A Band) | 5250 | 12.16 | 12.12 | 11.38 | 12.58 | 66.379 | 18.22 | 24 | Pass |
| 114 | 5570 | 14.38 | 15.06 | 15.05 | 14.96 | 122.8 | 20.89 | 24 | Pass |

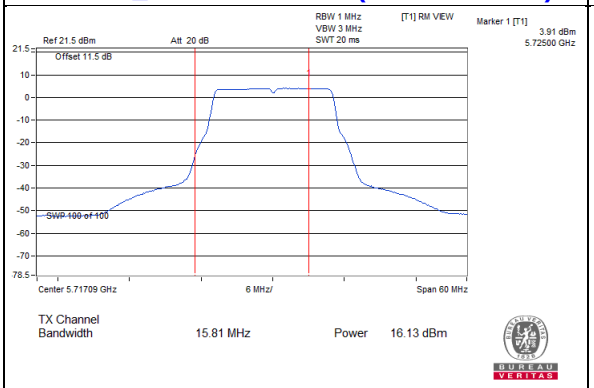
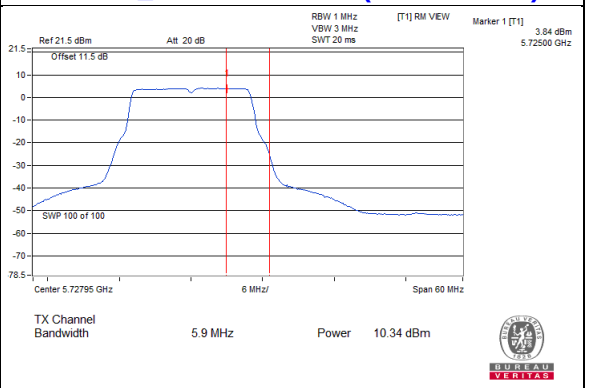
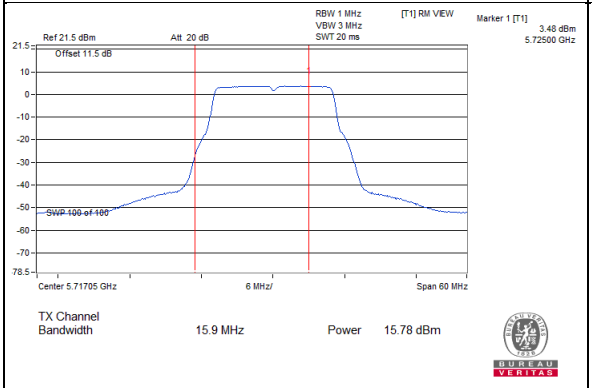
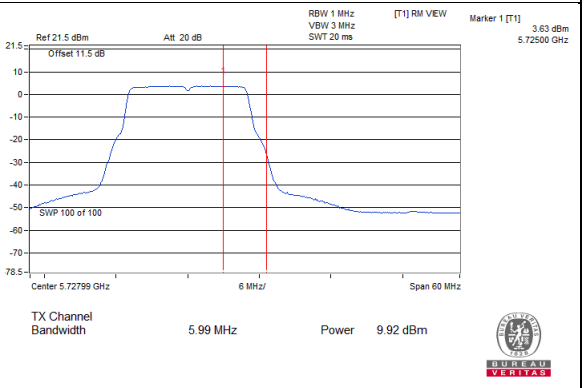
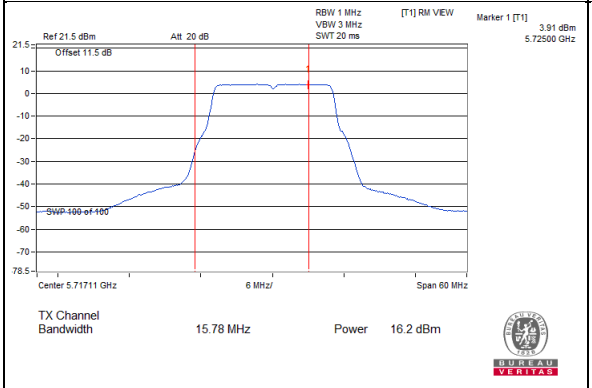
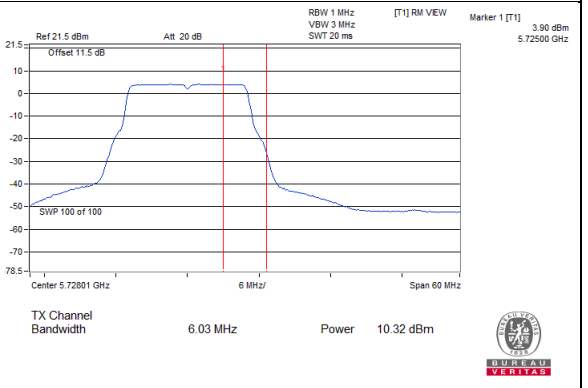
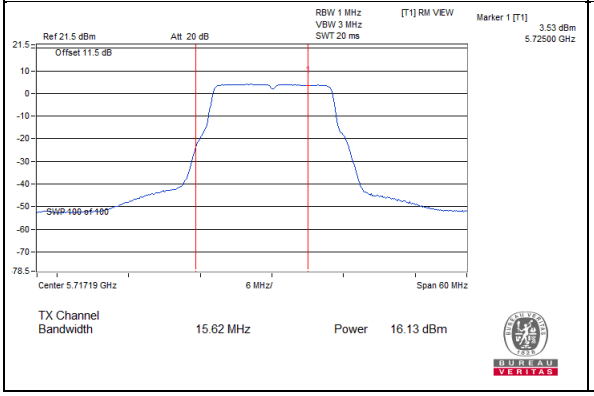
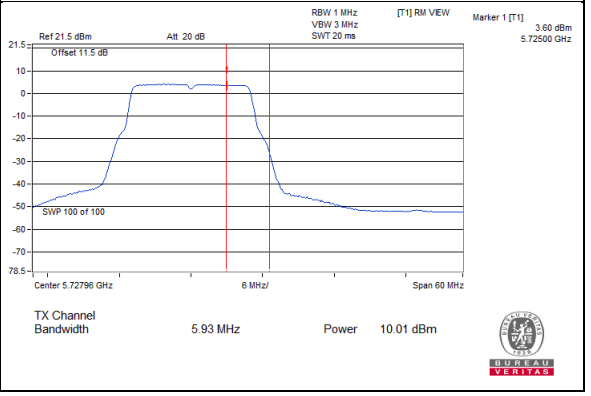
Note: * Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.
1. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power limit shall not be reduced.
2. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power limit shall not be reduced.
3. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power limit shall not be reduced.

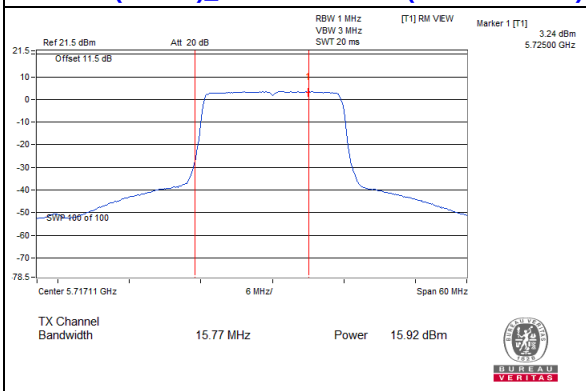
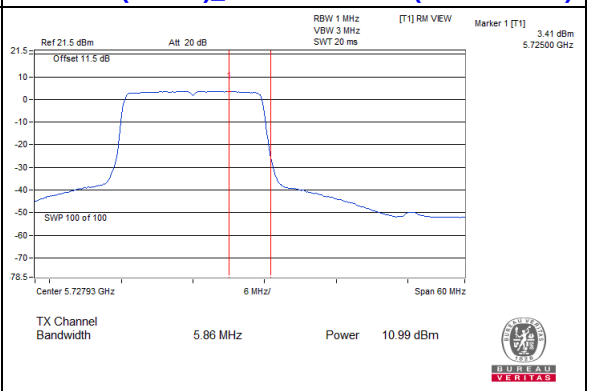
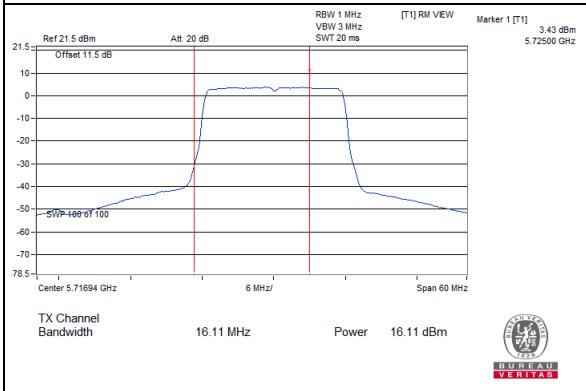
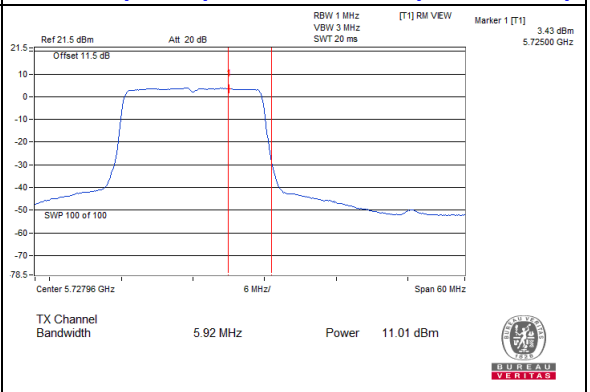
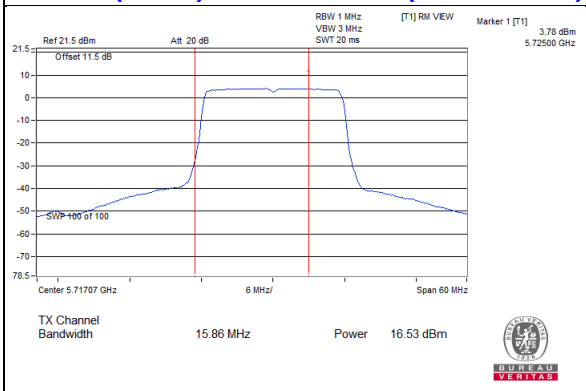
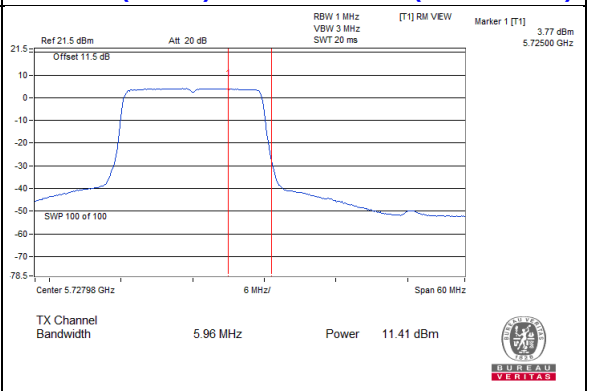
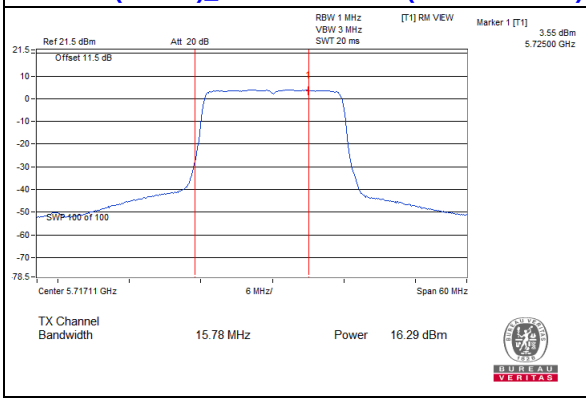
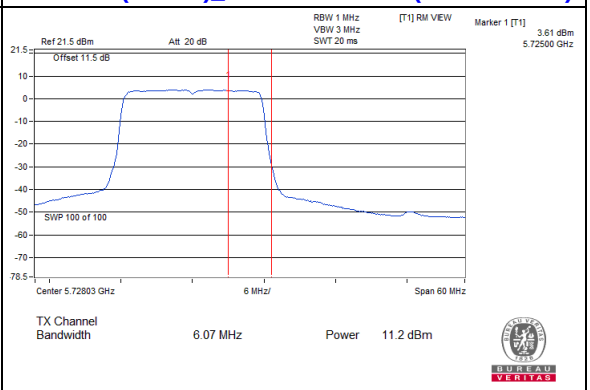
| Determined Power Limit | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 50 (U-NII-2A Band) | 5250 | 83.77 | 30.23 > 24 |
| 114 | 5570 | 167.9 | 33.25 > 24 |

**Note: For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.**

**For channel straddling 5250MHz & 5725MHz of Power**

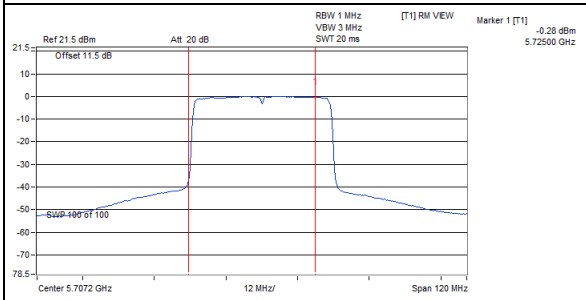
## CDD Mode

| Spectrum Plot Value of Power | |
|---|---|
| **802.11a_Chain 0 / CH144 (U-NII-2C Band)** | **802.11a_Chain 0 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.81 MHz Power 16.13 dBm |  <br>TX Channel Bandwidth 5.9 MHz Power 10.34 dBm |
| **802.11a_Chain 1 / CH144 (U-NII-2C Band)** | **802.11a_Chain 1 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.9 MHz Power 15.78 dBm |  <br>TX Channel Bandwidth 5.99 MHz Power 9.92 dBm |
| **802.11a_Chain 2 / CH144 (U-NII-2C Band)** | **802.11a_Chain 2 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.78 MHz Power 16.2 dBm |  <br>TX Channel Bandwidth 6.03 MHz Power 10.32 dBm |
| **802.11a_Chain 3 / CH144 (U-NII-2C Band)** | **802.11a_Chain 3 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.62 MHz Power 16.13 dBm |  <br>TX Channel Bandwidth 5.93 MHz Power 10.01 dBm |

| Spectrum Plot Value of Power | |
|---|---|
| **802.11ac (VHT20)_Chain 0 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 0 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.77 MHz Power 15.92 dBm |  <br>TX Channel Bandwidth 5.86 MHz Power 10.99 dBm |
| **802.11ac (VHT20)_Chain 1 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 1 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 16.11 MHz Power 16.11 dBm |  <br>TX Channel Bandwidth 5.92 MHz Power 11.01 dBm |
| **802.11ac (VHT20)_Chain 2 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 2 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.86 MHz Power 16.53 dBm |  <br>TX Channel Bandwidth 5.96 MHz Power 11.41 dBm |
| **802.11ac (VHT20)_Chain 3 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 3 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.78 MHz Power 16.29 dBm |  <br>TX Channel Bandwidth 6.07 MHz Power 11.2 dBm |

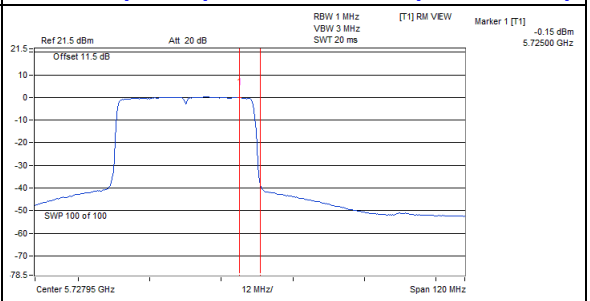
## Spectrum Plot Value of Power

### 802.11ac (VHT40)_Chain 0 / CH142 (U-NII-2C Band)



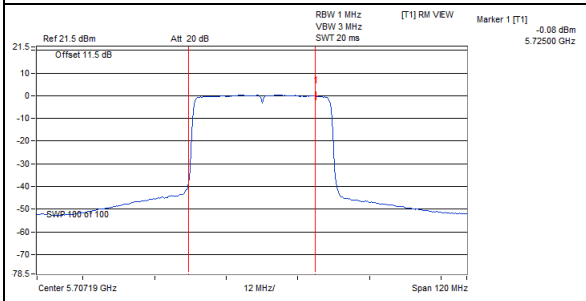

TX Channel Bandwidth 35.59 MHz Power 16.08 dBm

### 802.11ac (VHT40)_Chain 0 / CH142 (U-NII-3 Band)



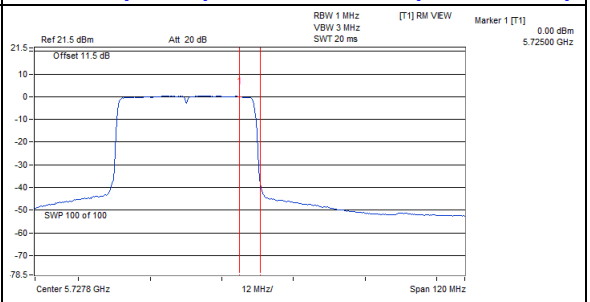

TX Channel Bandwidth 5.9 MHz Power 6.76 dBm

### 802.11ac (VHT40)_Chain 1 / CH142 (U-NII-2C Band)



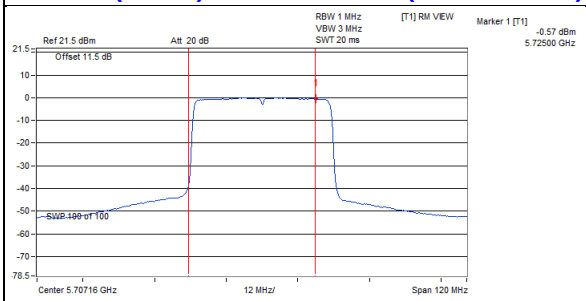

TX Channel Bandwidth 35.61 MHz Power 16.35 dBm

### 802.11ac (VHT40)_Chain 1 / CH142 (U-NII-3 Band)



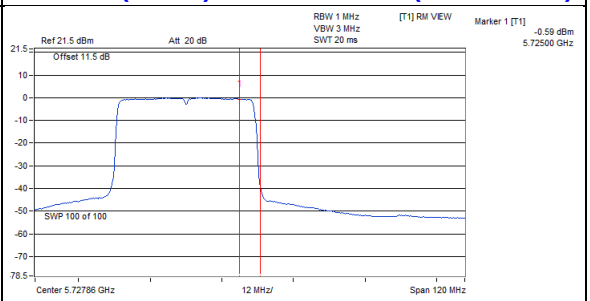

TX Channel Bandwidth 5.6 MHz Power 6.87 dBm

### 802.11ac (VHT40)_Chain 2 / CH142 (U-NII-2C Band)



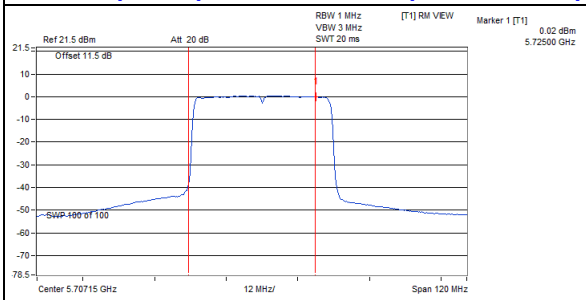

TX Channel Bandwidth 35.68 MHz Power 15.97 dBm

### 802.11ac (VHT40)_Chain 2 / CH142 (U-NII-3 Band)



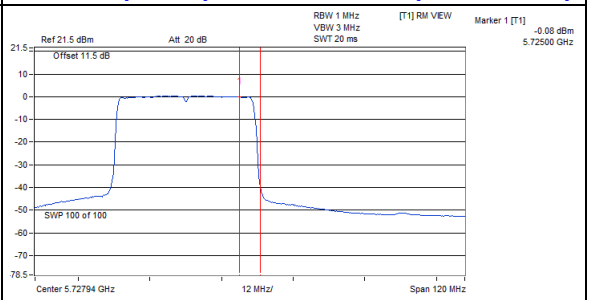

TX Channel Bandwidth 5.73 MHz Power 6.34 dBm

### 802.11ac (VHT40)_Chain 3 / CH142 (U-NII-2C Band)




TX Channel Bandwidth 35.7 MHz Power 16.44 dBm

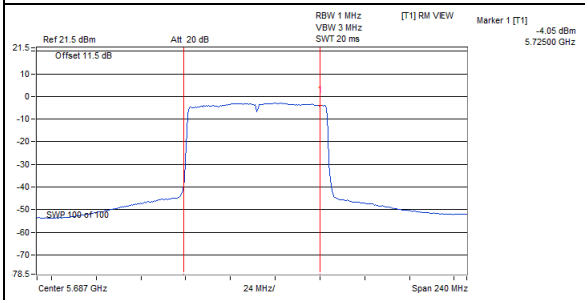
### 802.11ac (VHT40)_Chain 3 / CH142 (U-NII-3 Band)




TX Channel Bandwidth 5.89 MHz Power 6.88 dBm

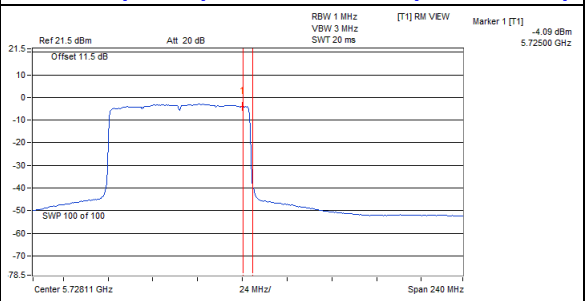
## Spectrum Plot Value of Power

### 802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)



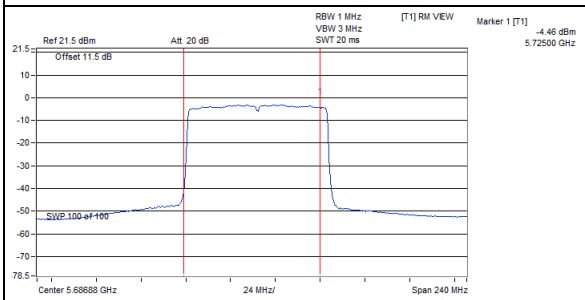

TX Channel Bandwidth 75.99 MHz Power 16.19 dBm

### 802.11ac (VHT80)_Chain 0 / CH138 (U-NII-3 Band)



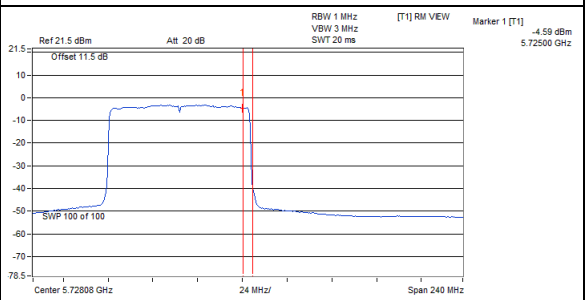

TX Channel Bandwidth 6.22 MHz Power 3.1 dBm

### 802.11ac (VHT80)_Chain 1 / CH138 (U-NII-2C Band)



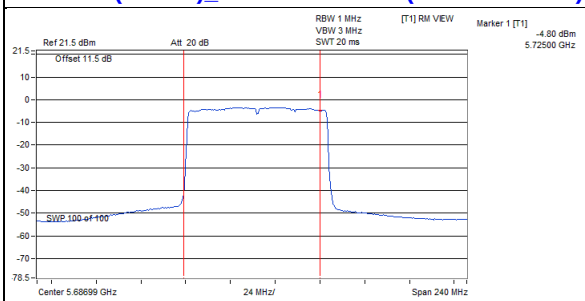

TX Channel Bandwidth 76.24 MHz Power 15.96 dBm

### 802.11ac (VHT80)_Chain 1 / CH138 (U-NII-3 Band)



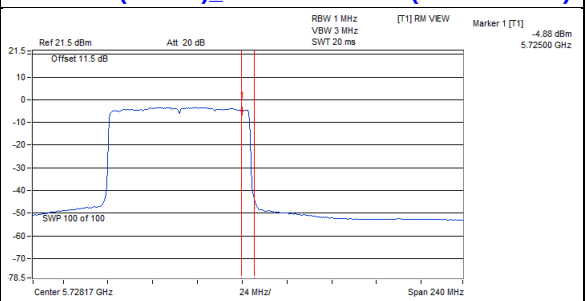

TX Channel Bandwidth 6.17 MHz Power 2.74 dBm

### 802.11ac (VHT80)_Chain 2 / CH138 (U-NII-2C Band)



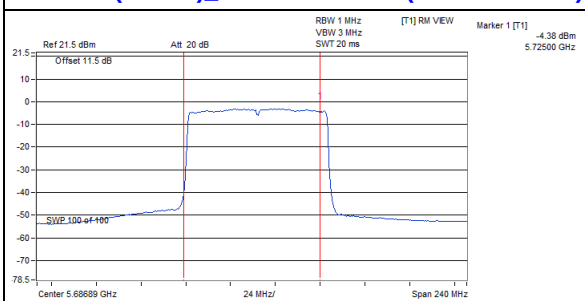

TX Channel Bandwidth 76.02 MHz Power 15.86 dBm

### 802.11ac (VHT80)_Chain 2 / CH138 (U-NII-3 Band)



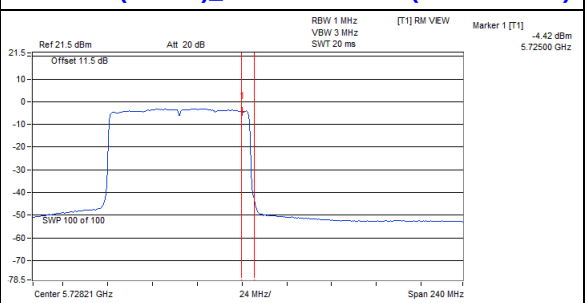

TX Channel Bandwidth 6.35 MHz Power 2.52 dBm

### 802.11ac (VHT80)_Chain 3 / CH138 (U-NII-2C Band)




TX Channel Bandwidth 76.21 MHz Power 16.01 dBm

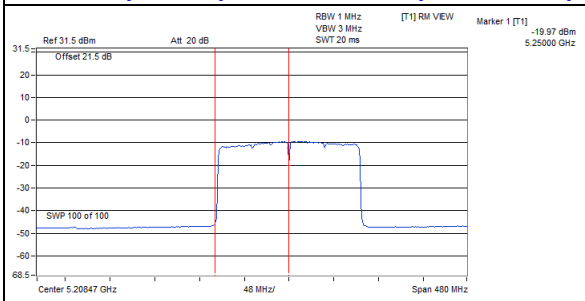
### 802.11ac (VHT80)_Chain 3 / CH138 (U-NII-3 Band)




TX Channel Bandwidth 6.43 MHz Power 2.87 dBm

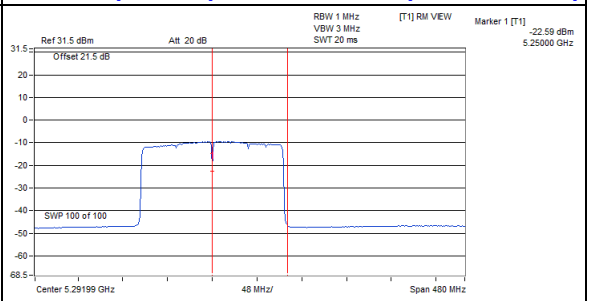
## Spectrum Plot Value of Power

### 802.11ac (VHT160)_Chain 0 / CH50 (U-NII-1 Band)



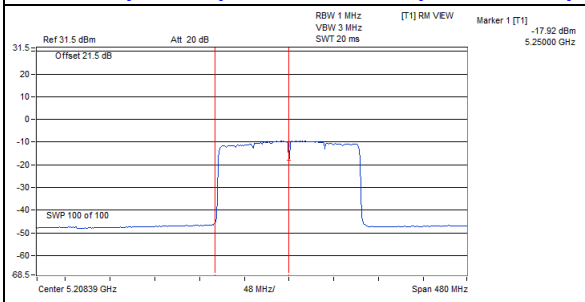

TX Channel Bandwidth 83.05 MHz Power 11.3 dBm

### 802.11ac (VHT160)_Chain 0 / CH50 (U-NII-2A Band)



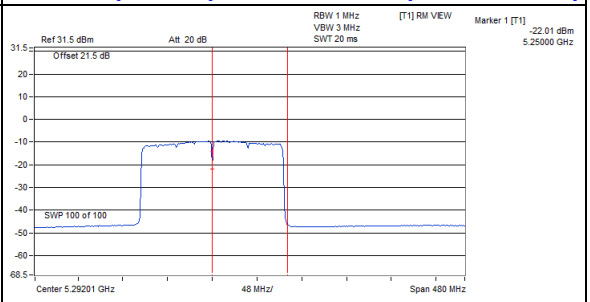

TX Channel Bandwidth 83.98 MHz Power 11.83 dBm

### 802.11ac (VHT160)_Chain 1 / CH50 (U-NII-1 Band)



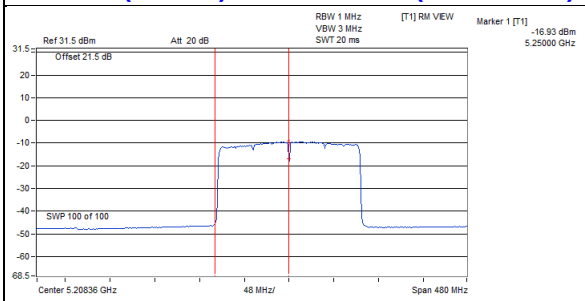

TX Channel Bandwidth 83.22 MHz Power 11.31 dBm

### 802.11ac (VHT160)_Chain 1 / CH50 (U-NII-2A Band)



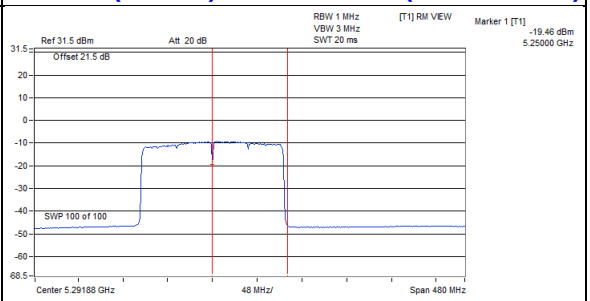

TX Channel Bandwidth 84.03 MHz Power 11.73 dBm

### 802.11ac (VHT160)_Chain 2 / CH50 (U-NII-1 Band)



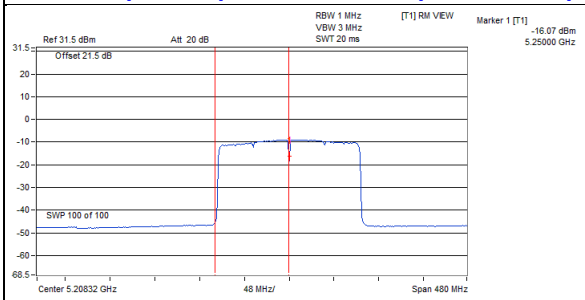

TX Channel Bandwidth 83.28 MHz Power 11.29 dBm

### 802.11ac (VHT160)_Chain 2 / CH50 (U-NII-2A Band)



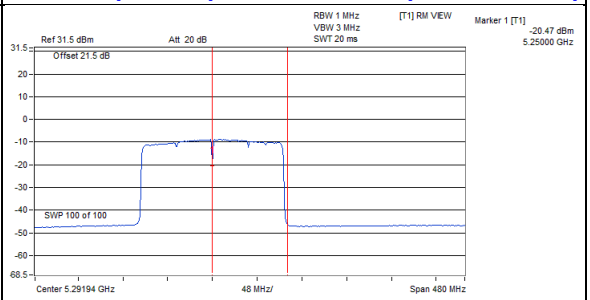

TX Channel Bandwidth 83.77 MHz Power 12.02 dBm

### 802.11ac (VHT160)_Chain 3 / CH50 (U-NII-1 Band)

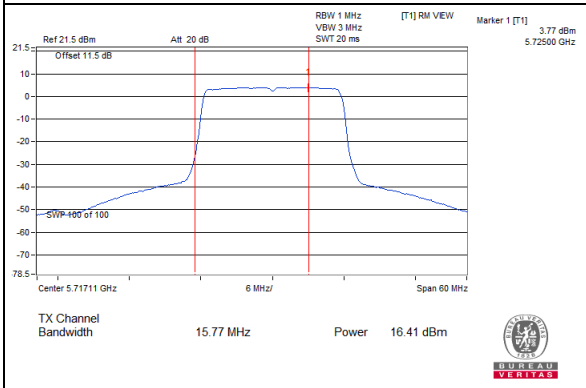
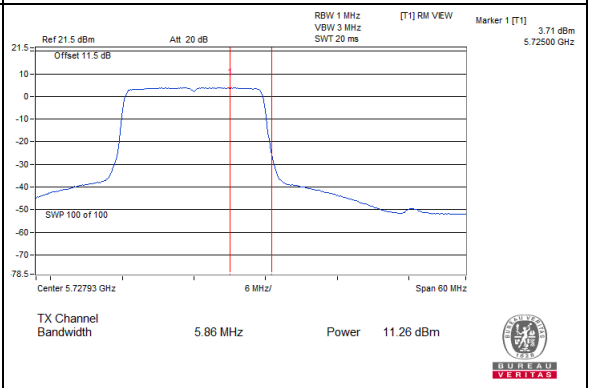
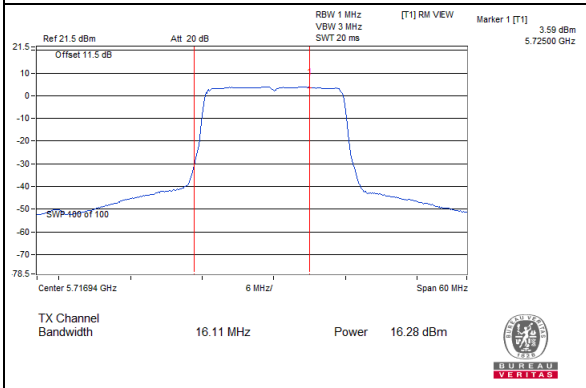
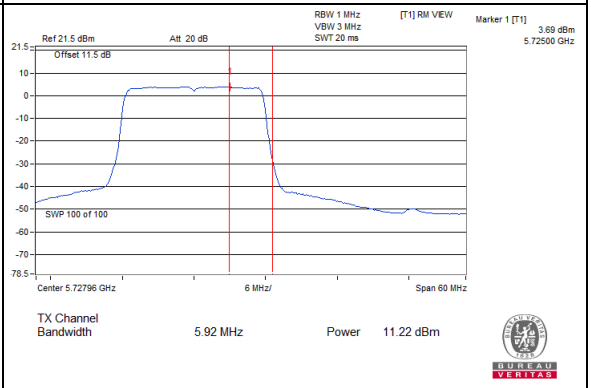
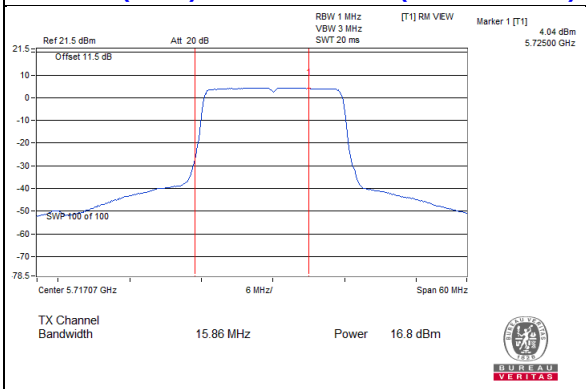
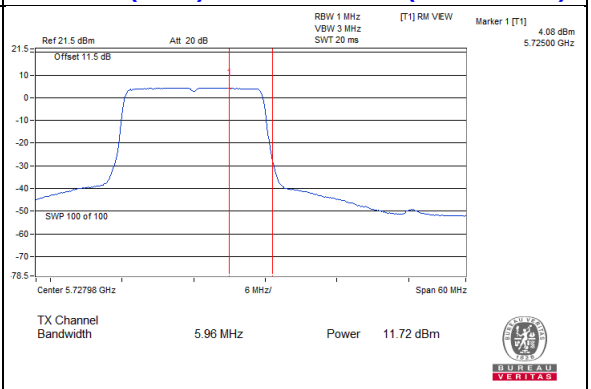
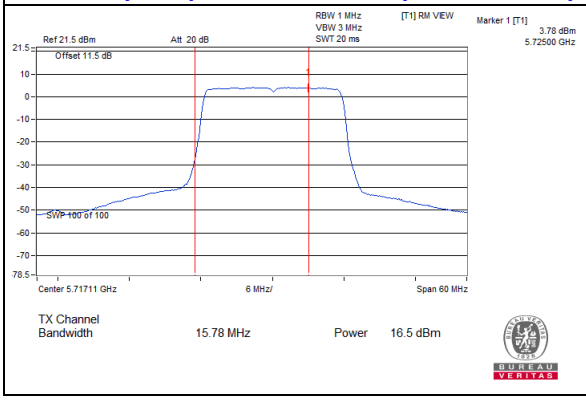
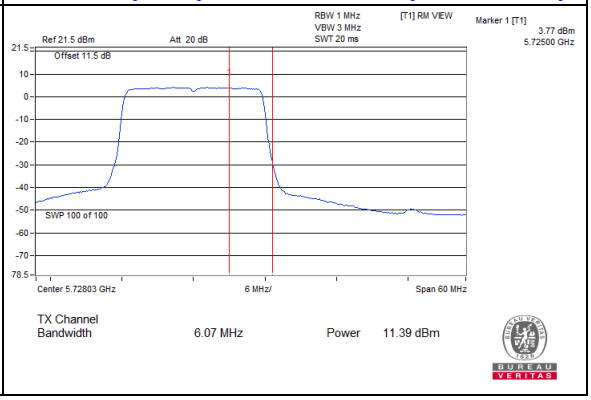



TX Channel Bandwidth 83.36 MHz Power 11.86 dBm

### 802.11ac (VHT160)_Chain 3 / CH50 (U-NII-2A Band)

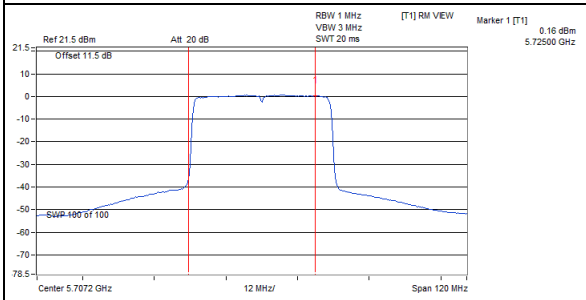



TX Channel Bandwidth 83.88 MHz Power 12.39 dBm

| Spectrum Plot Value of Power | |
|---|---|
| **802.11ax (HE20)_Chain 0 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 0 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.77 MHz Power 16.41 dBm |  <br>TX Channel Bandwidth 5.86 MHz Power 11.26 dBm |
| **802.11ax (HE20)_Chain 1 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 1 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 16.11 MHz Power 16.28 dBm |  <br>TX Channel Bandwidth 5.92 MHz Power 11.22 dBm |
| **802.11ax (HE20)_Chain 2 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 2 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.86 MHz Power 16.8 dBm |  <br>TX Channel Bandwidth 5.96 MHz Power 11.72 dBm |
| **802.11ax (HE20)_Chain 3 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 3 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.78 MHz Power 16.5 dBm |  <br>TX Channel Bandwidth 6.07 MHz Power 11.39 dBm |

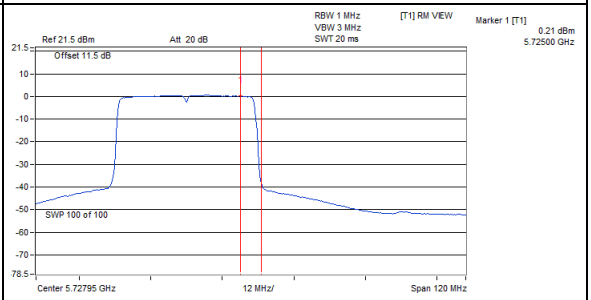
## Spectrum Plot Value of Power

### 802.11ax (HE40)_Chain 0 / CH142 (U-NII-2C Band)



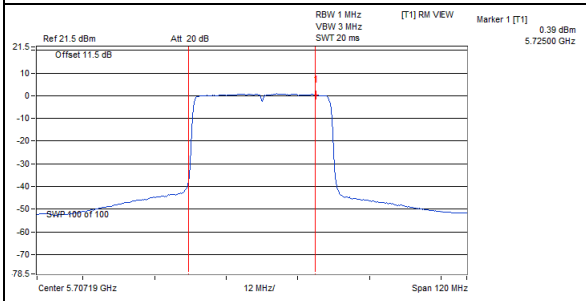

TX Channel Bandwidth 35.59 MHz Power 16.57 dBm

### 802.11ax (HE40)_Chain 0 / CH142 (U-NII-3 Band)



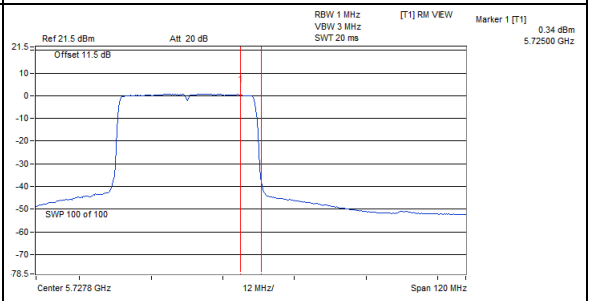

TX Channel Bandwidth 5.9 MHz Power 7.06 dBm

### 802.11ax (HE40)_Chain 1 / CH142 (U-NII-2C Band)



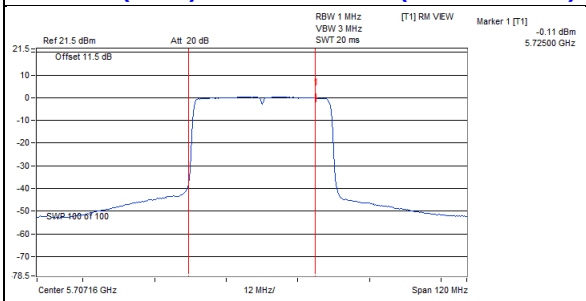

TX Channel Bandwidth 35.61 MHz Power 16.81 dBm

### 802.11ax (HE40)_Chain 1 / CH142 (U-NII-3 Band)



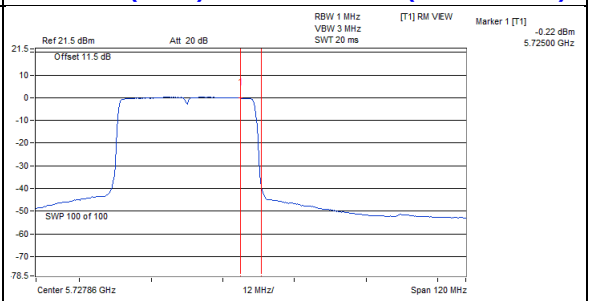

TX Channel Bandwidth 5.6 MHz Power 7.19 dBm

### 802.11ax (HE40)_Chain 2 / CH142 (U-NII-2C Band)



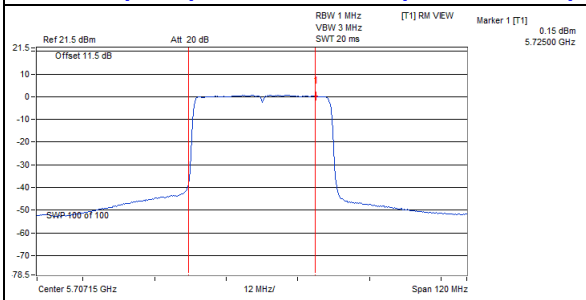

TX Channel Bandwidth 35.68 MHz Power 16.45 dBm

### 802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



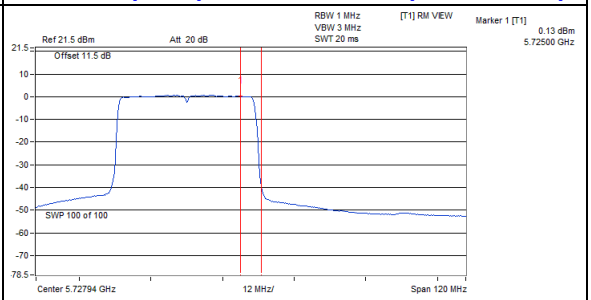

TX Channel Bandwidth 5.73 MHz Power 6.76 dBm

### 802.11ax (HE40)_Chain 3 / CH142 (U-NII-2C Band)

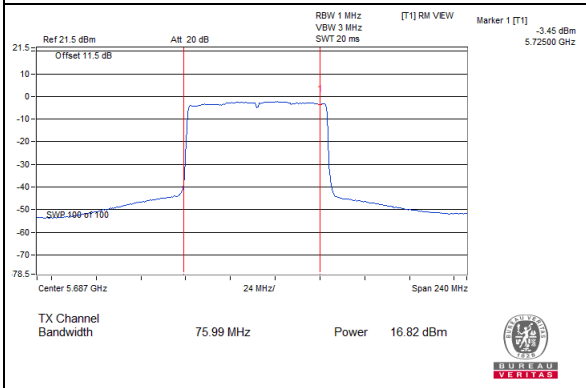
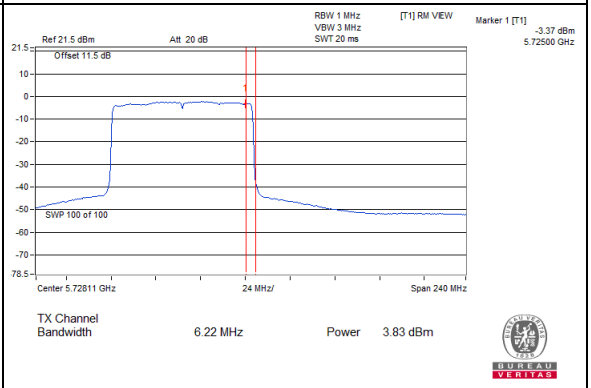
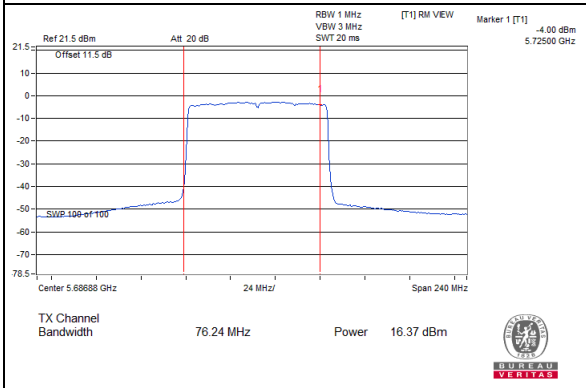
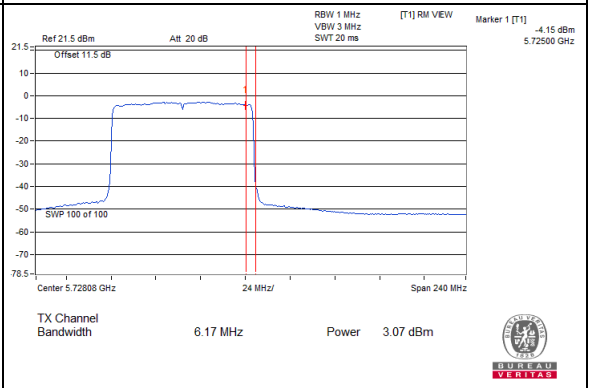
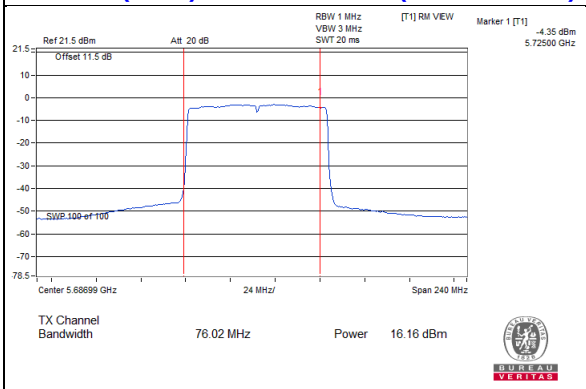
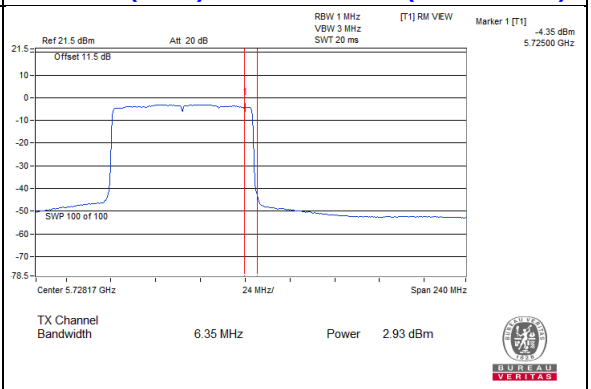
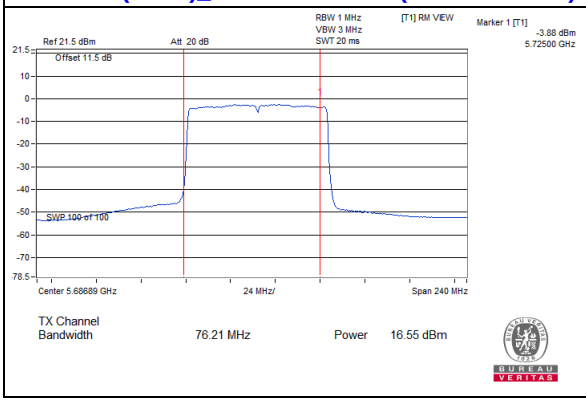
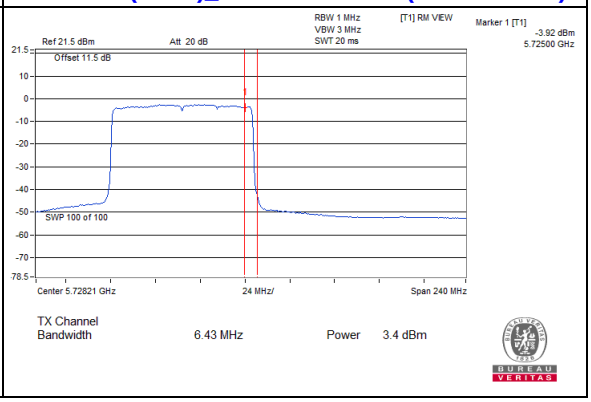



TX Channel Bandwidth 35.7 MHz Power 16.66 dBm

### 802.11ax (HE40)_Chain 3 / CH142 (U-NII-3 Band)

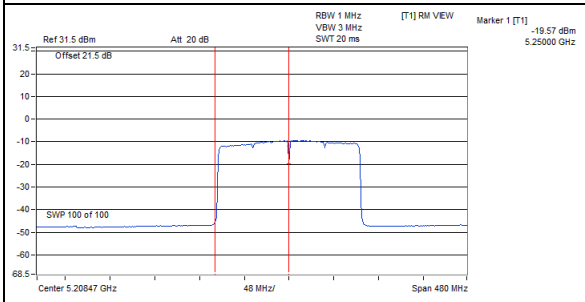



TX Channel Bandwidth 5.89 MHz Power 7.09 dBm

| Spectrum Plot Value of Power | |
|---|---|
| **802.11ax (HE80)_Chain 0 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 75.99 MHz Power 16.82 dBm |  <br>TX Channel Bandwidth 6.22 MHz Power 3.83 dBm |
| **802.11ax (HE80)_Chain 1 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 1 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 76.24 MHz Power 16.37 dBm |  <br>TX Channel Bandwidth 6.17 MHz Power 3.07 dBm |
| **802.11ax (HE80)_Chain 2 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 2 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 76.02 MHz Power 16.16 dBm |  <br>TX Channel Bandwidth 6.35 MHz Power 2.93 dBm |
| **802.11ax (HE80)_Chain 3 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 3 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 76.21 MHz Power 16.55 dBm |  <br>TX Channel Bandwidth 6.43 MHz Power 3.4 dBm |

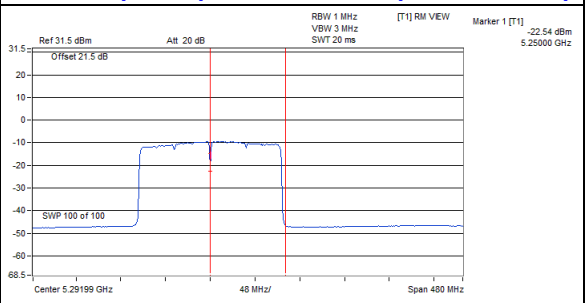
## Spectrum Plot Value of Power

### 802.11ax (HE160)_Chain 0 / CH50 (U-NII-1 Band)



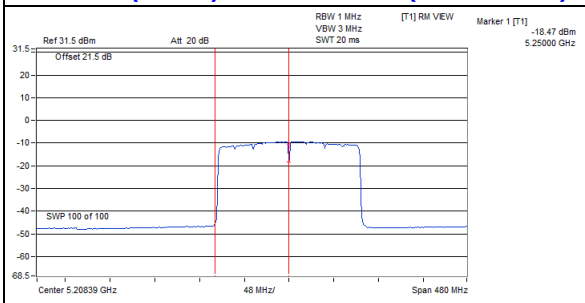

TX Channel Bandwidth 83.05 MHz Power 11.61 dBm

### 802.11ax (HE160)_Chain 0 / CH50 (U-NII-2A Band)



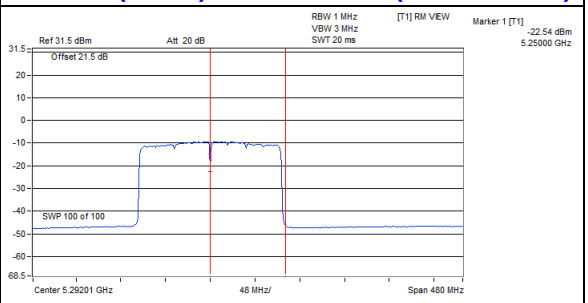

TX Channel Bandwidth 83.98 MHz Power 12.16 dBm

### 802.11ax (HE160)_Chain 1 / CH50 (U-NII-1 Band)



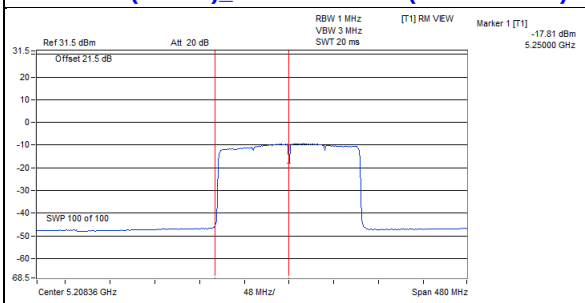

TX Channel Bandwidth 83.22 MHz Power 11.84 dBm

### 802.11ax (HE160)_Chain 1 / CH50 (U-NII-2A Band)



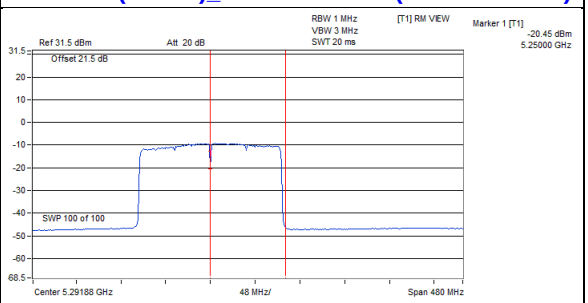

TX Channel Bandwidth 84.03 MHz Power 12.12 dBm

### 802.11ax (HE160)_Chain 2 / CH50 (U-NII-1 Band)



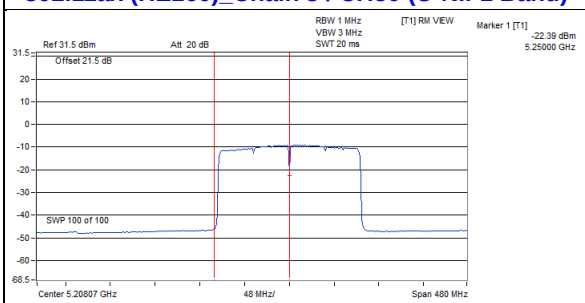

TX Channel Bandwidth 83.28 MHz Power 11.62 dBm

### 802.11ax (HE160)_Chain 2 / CH50 (U-NII-2A Band)



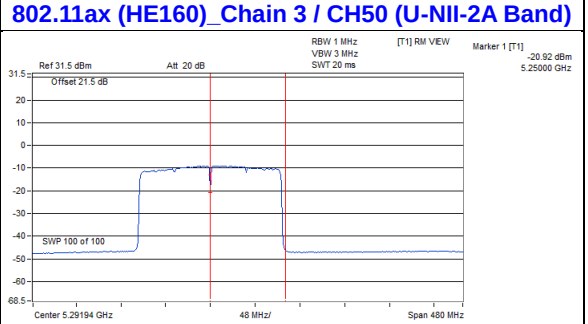

TX Channel Bandwidth 83.77 MHz Power 11.38 dBm

### 802.11ax (HE160)_Chain 3 / CH50 (U-NII-1 Band)



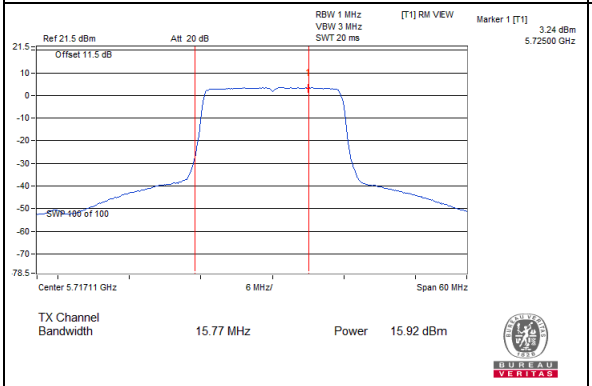
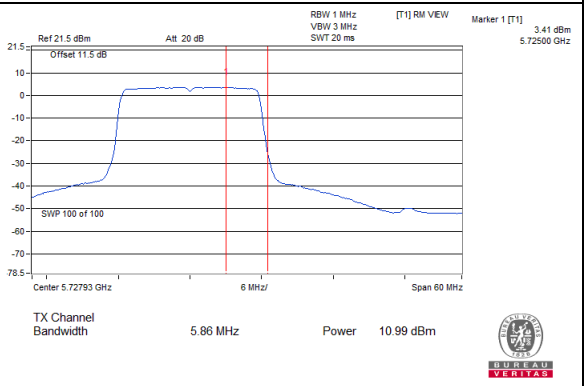
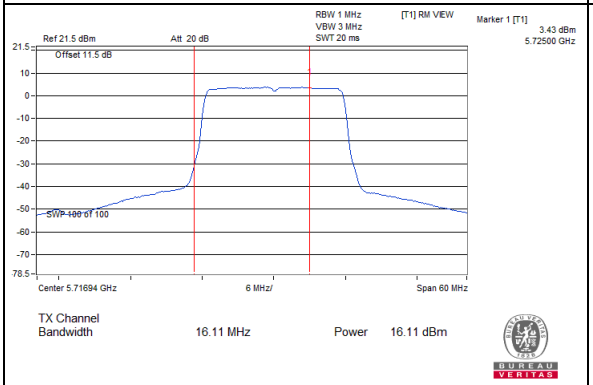
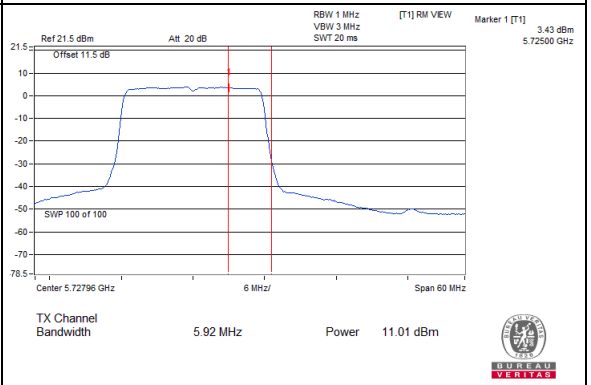
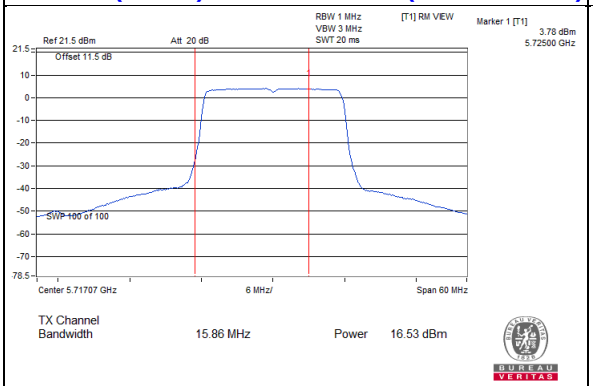
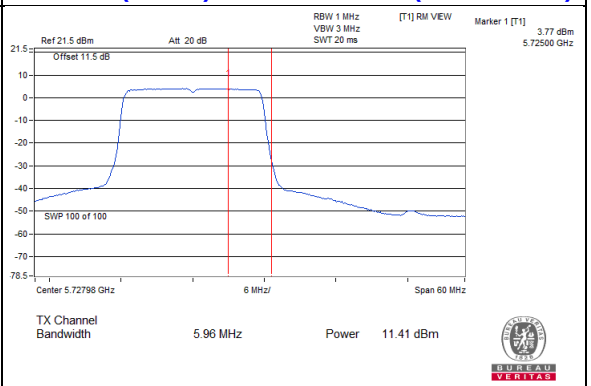
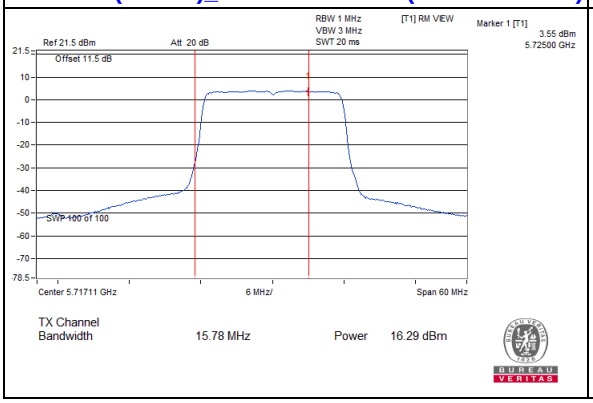
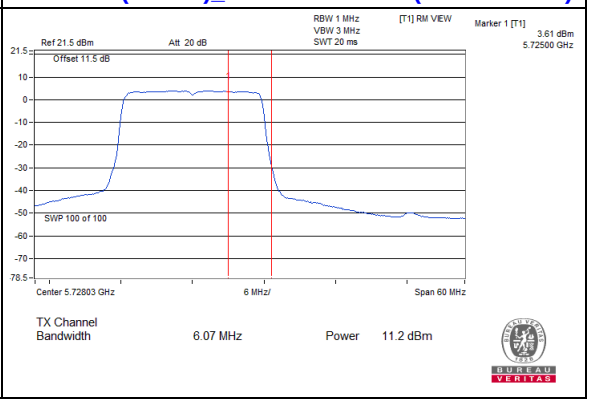

TX Channel Bandwidth 83.86 MHz Power 11.99 dBm

### 802.11ax (HE160)_Chain 3 / CH50 (U-NII-2A Band)



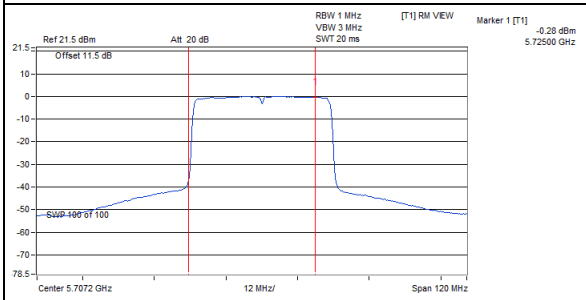

TX Channel Bandwidth 83.88 MHz Power 12.58 dBm

## Beamforming Mode

| Spectrum Plot Value of Power | |
|---|---|
| **802.11ac (VHT20)_Chain 0 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 0 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.77 MHz Power 15.92 dBm |  <br>TX Channel Bandwidth 5.86 MHz Power 10.99 dBm |
| **802.11ac (VHT20)_Chain 1 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 1 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 16.11 MHz Power 16.11 dBm |  <br>TX Channel Bandwidth 5.92 MHz Power 11.01 dBm |
| **802.11ac (VHT20)_Chain 2 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 2 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.86 MHz Power 16.53 dBm |  <br>TX Channel Bandwidth 5.96 MHz Power 11.41 dBm |
| **802.11ac (VHT20)_Chain 3 / CH144 (U-NII-2C Band)** | **802.11ac (VHT20)_Chain 3 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.78 MHz Power 16.29 dBm |  <br>TX Channel Bandwidth 6.07 MHz Power 11.2 dBm |

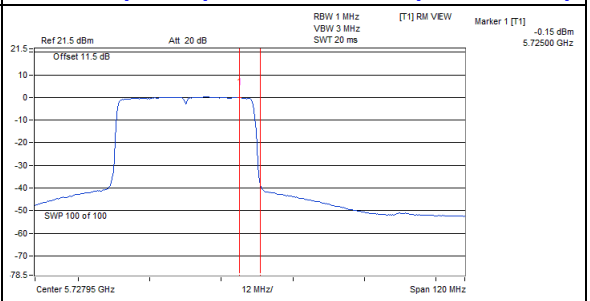
## Spectrum Plot Value of Power

### 802.11ac (VHT40)_Chain 0 / CH142 (U-NII-2C Band)



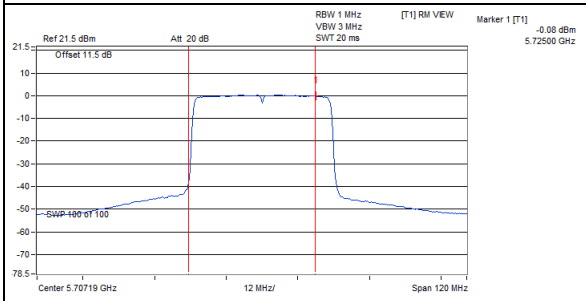

TX Channel Bandwidth 35.59 MHz Power 16.08 dBm

### 802.11ac (VHT40)_Chain 0 / CH142 (U-NII-3 Band)



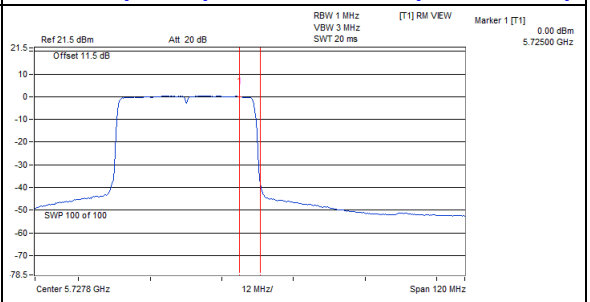

TX Channel Bandwidth 5.9 MHz Power 6.76 dBm

### 802.11ac (VHT40)_Chain 1 / CH142 (U-NII-2C Band)



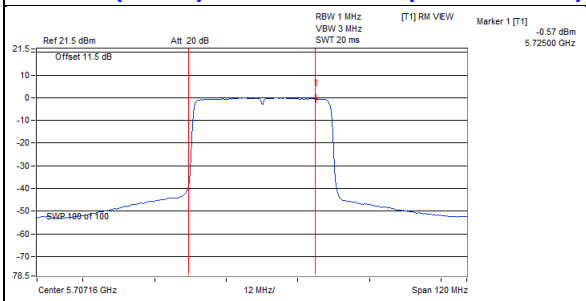

TX Channel Bandwidth 35.61 MHz Power 16.35 dBm

### 802.11ac (VHT40)_Chain 1 / CH142 (U-NII-3 Band)



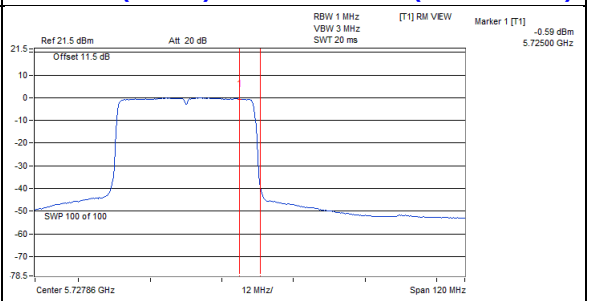

TX Channel Bandwidth 5.6 MHz Power 6.87 dBm

### 802.11ac (VHT40)_Chain 2 / CH142 (U-NII-2C Band)



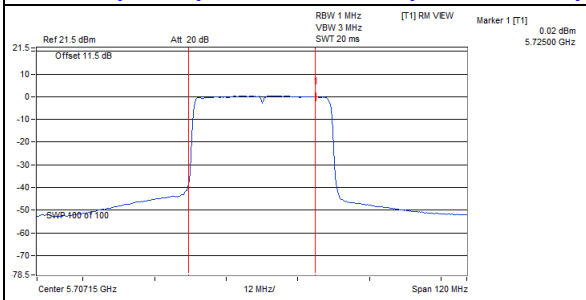

TX Channel Bandwidth 35.68 MHz Power 15.97 dBm

### 802.11ac (VHT40)_Chain 2 / CH142 (U-NII-3 Band)



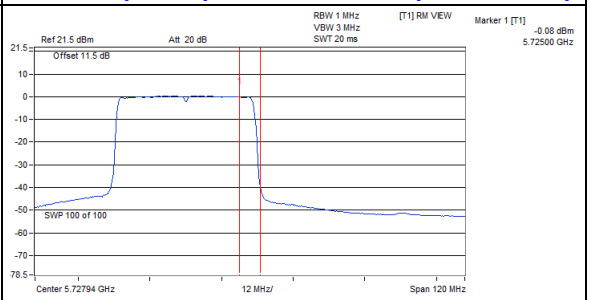

TX Channel Bandwidth 5.73 MHz Power 6.34 dBm

### 802.11ac (VHT40)_Chain 3 / CH142 (U-NII-2C Band)




TX Channel Bandwidth 35.7 MHz Power 16.44 dBm

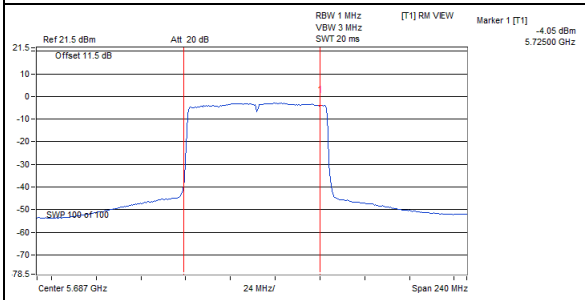
### 802.11ac (VHT40)_Chain 3 / CH142 (U-NII-3 Band)




TX Channel Bandwidth 5.89 MHz Power 6.88 dBm

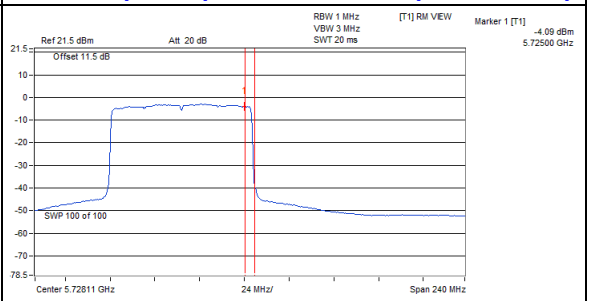
## Spectrum Plot Value of Power

### 802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)



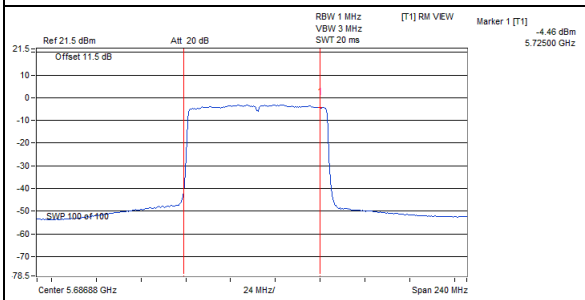

TX Channel Bandwidth 75.99 MHz Power 16.19 dBm

### 802.11ac (VHT80)_Chain 0 / CH138 (U-NII-3 Band)



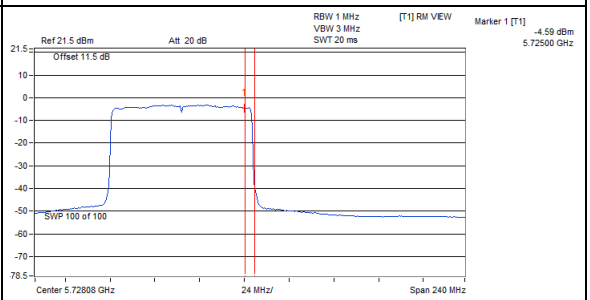

TX Channel Bandwidth 6.22 MHz Power 3.1 dBm

### 802.11ac (VHT80)_Chain 1 / CH138 (U-NII-2C Band)



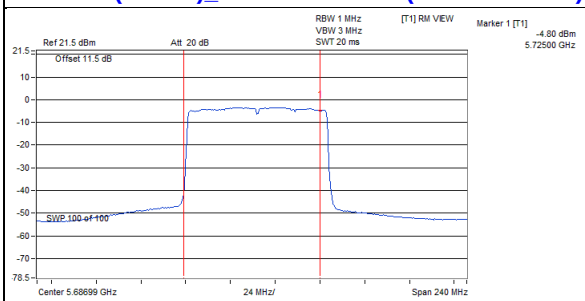

TX Channel Bandwidth 76.24 MHz Power 15.96 dBm

### 802.11ac (VHT80)_Chain 1 / CH138 (U-NII-3 Band)



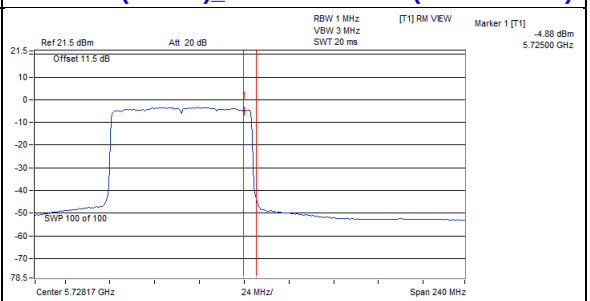

TX Channel Bandwidth 6.17 MHz Power 2.74 dBm

### 802.11ac (VHT80)_Chain 2 / CH138 (U-NII-2C Band)



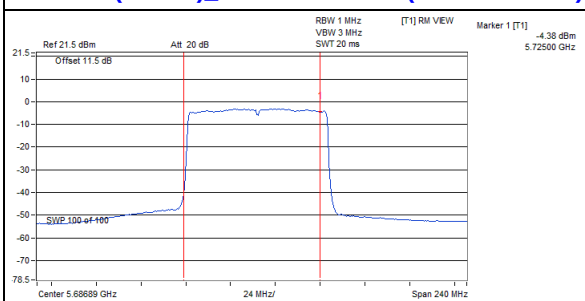

TX Channel Bandwidth 76.02 MHz Power 15.86 dBm

### 802.11ac (VHT80)_Chain 2 / CH138 (U-NII-3 Band)



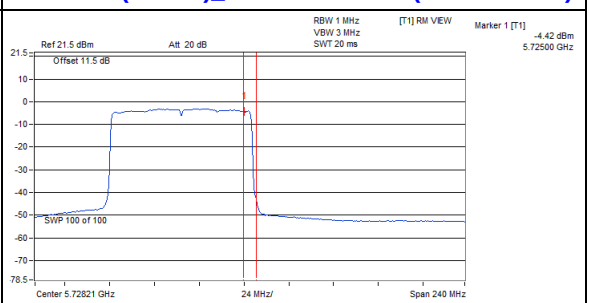

TX Channel Bandwidth 6.35 MHz Power 2.52 dBm

### 802.11ac (VHT80)_Chain 3 / CH138 (U-NII-2C Band)




TX Channel Bandwidth 76.21 MHz Power 16.01 dBm

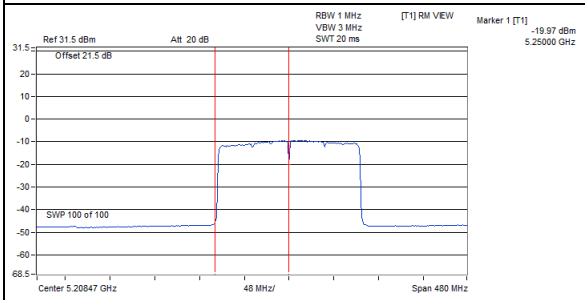
### 802.11ac (VHT80)_Chain 3 / CH138 (U-NII-3 Band)




TX Channel Bandwidth 6.43 MHz Power 2.87 dBm

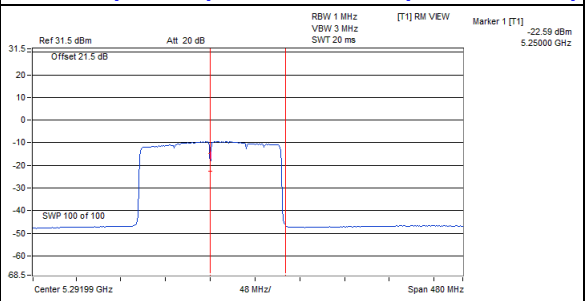
## Spectrum Plot Value of Power

### 802.11ac (VHT160)_Chain 0 / CH50 (U-NII-1 Band)



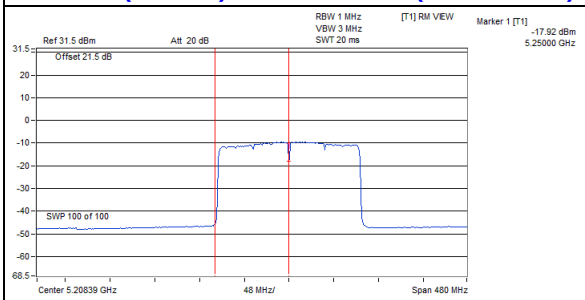

TX Channel Bandwidth 83.05 MHz Power 11.3 dBm

### 802.11ac (VHT160)_Chain 0 / CH50 (U-NII-2A Band)



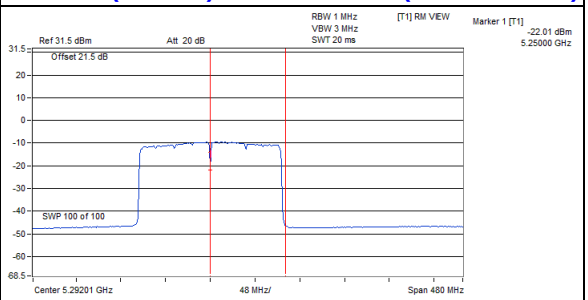

TX Channel Bandwidth 83.98 MHz Power 11.83 dBm

### 802.11ac (VHT160)_Chain 1 / CH50 (U-NII-1 Band)



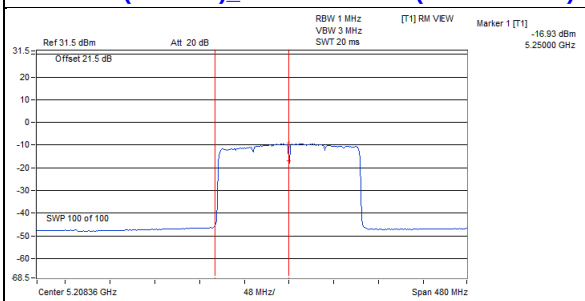

TX Channel Bandwidth 83.22 MHz Power 11.31 dBm

### 802.11ac (VHT160)_Chain 1 / CH50 (U-NII-2A Band)



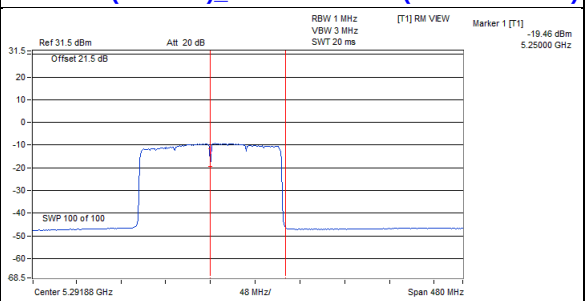

TX Channel Bandwidth 84.03 MHz Power 11.73 dBm

### 802.11ac (VHT160)_Chain 2 / CH50 (U-NII-1 Band)



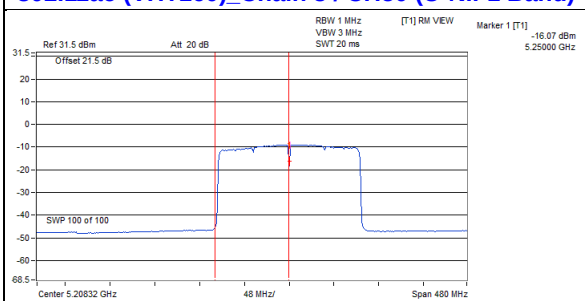

TX Channel Bandwidth 83.28 MHz Power 11.29 dBm

### 802.11ac (VHT160)_Chain 2 / CH50 (U-NII-2A Band)



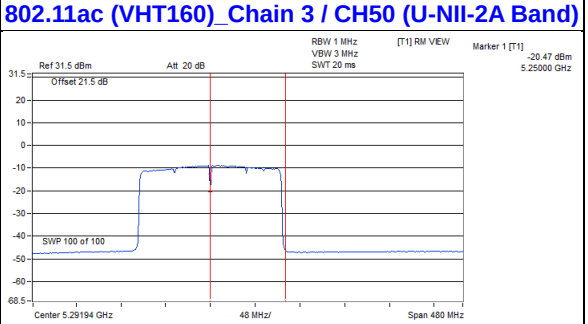

TX Channel Bandwidth 83.77 MHz Power 12.02 dBm

### 802.11ac (VHT160)_Chain 3 / CH50 (U-NII-1 Band)

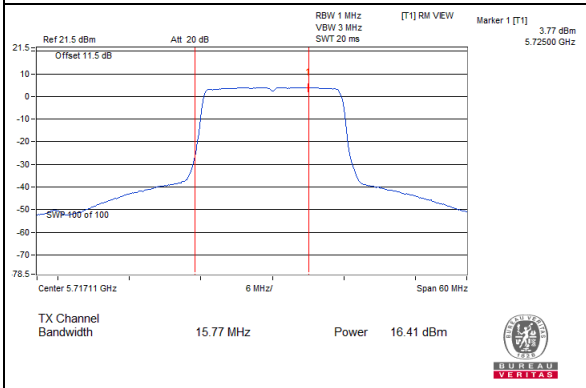
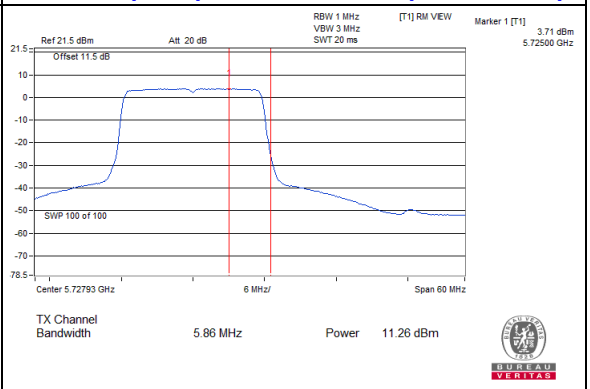
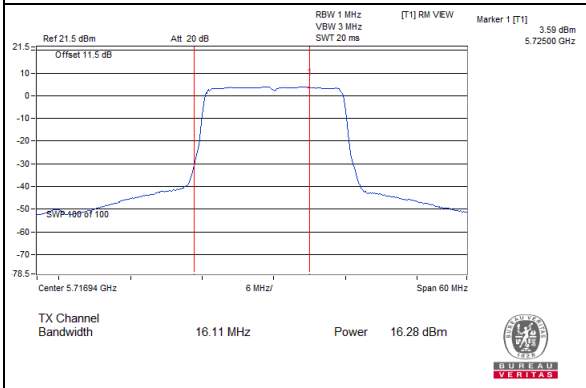
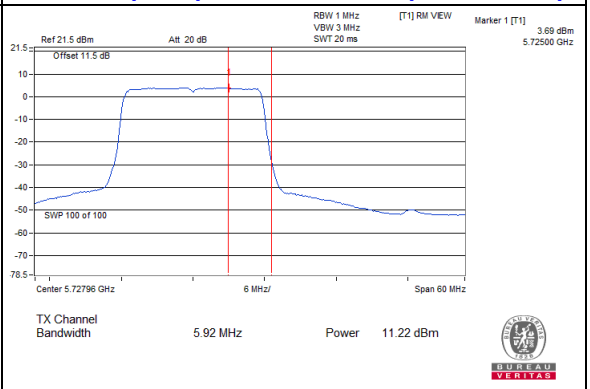
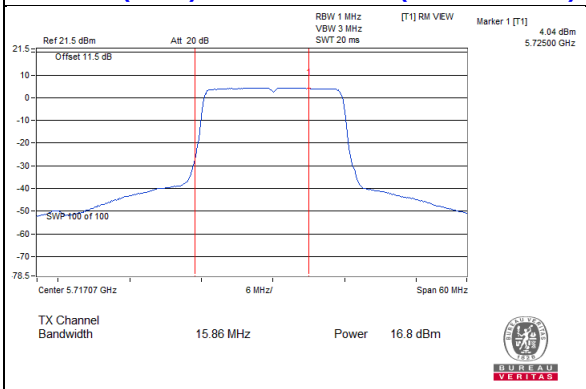
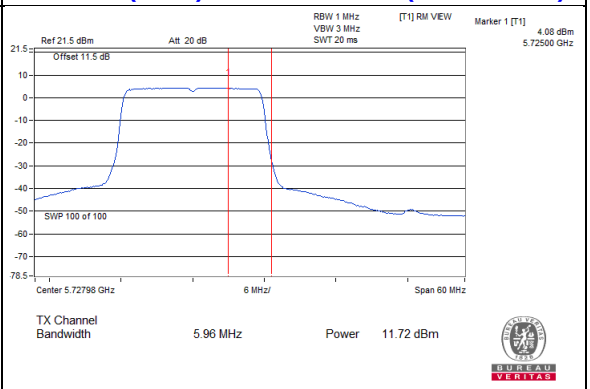
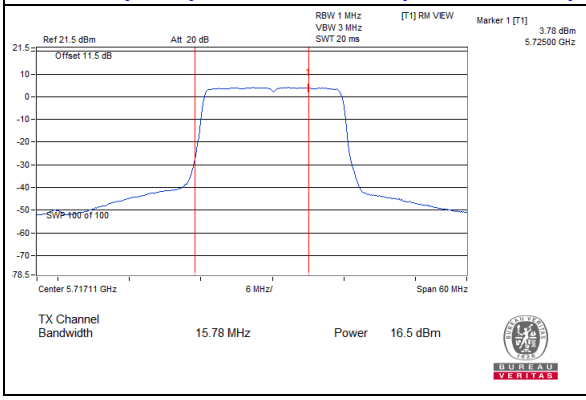
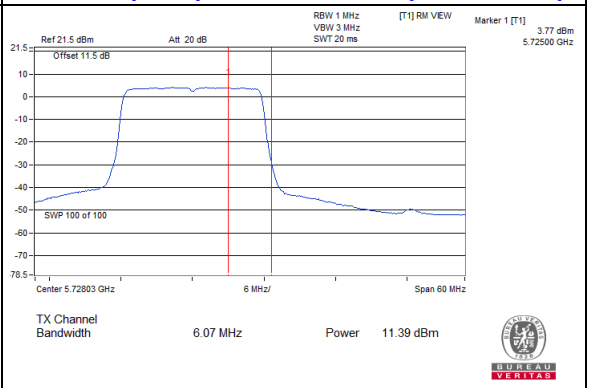



TX Channel Bandwidth 83.36 MHz Power 11.86 dBm

### 802.11ac (VHT160)_Chain 3 / CH50 (U-NII-2A Band)

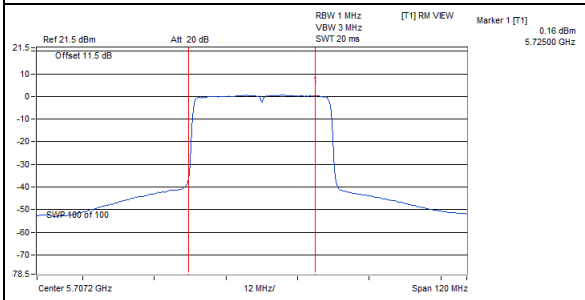



TX Channel Bandwidth 83.88 MHz Power 12.39 dBm

| Spectrum Plot Value of Power | |
|---|---|
| **802.11ax (HE20)_Chain 0 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 0 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.77 MHz Power 16.41 dBm |  <br>TX Channel Bandwidth 5.86 MHz Power 11.26 dBm |
| **802.11ax (HE20)_Chain 1 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 1 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 16.11 MHz Power 16.28 dBm |  <br>TX Channel Bandwidth 5.92 MHz Power 11.22 dBm |
| **802.11ax (HE20)_Chain 2 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 2 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.86 MHz Power 16.8 dBm |  <br>TX Channel Bandwidth 5.96 MHz Power 11.72 dBm |
| **802.11ax (HE20)_Chain 3 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 3 / CH144 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 15.78 MHz Power 16.5 dBm |  <br>TX Channel Bandwidth 6.07 MHz Power 11.39 dBm |

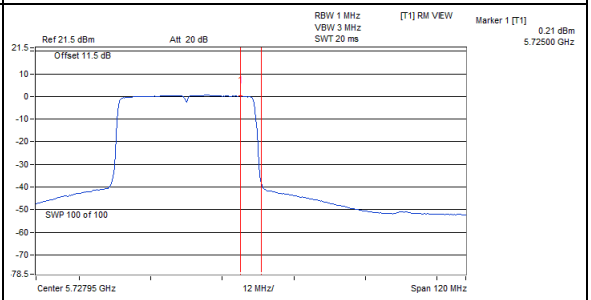
## Spectrum Plot Value of Power

### 802.11ax (HE40)_Chain 0 / CH142 (U-NII-2C Band)



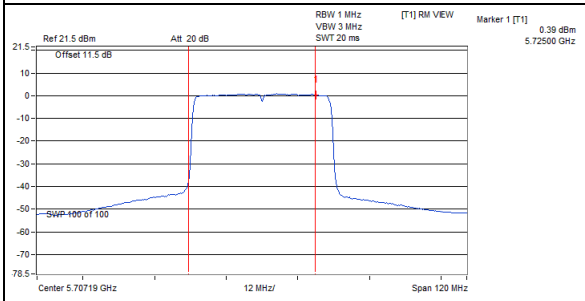

TX Channel Bandwidth 35.59 MHz Power 16.57 dBm

### 802.11ax (HE40)_Chain 0 / CH142 (U-NII-3 Band)



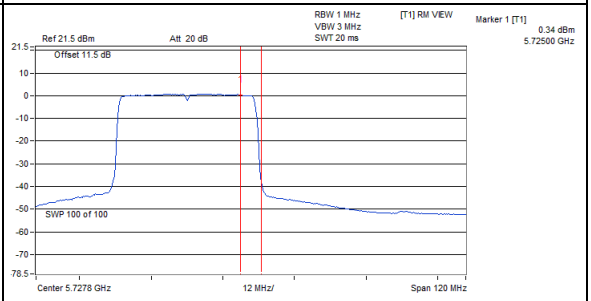

TX Channel Bandwidth 5.9 MHz Power 7.06 dBm

### 802.11ax (HE40)_Chain 1 / CH142 (U-NII-2C Band)



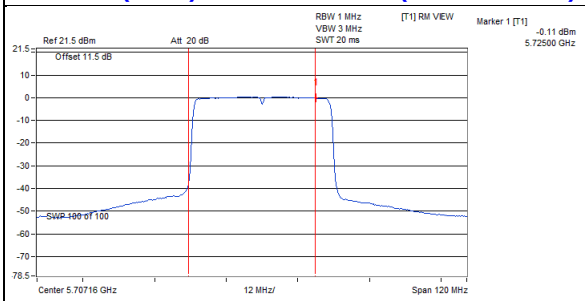

TX Channel Bandwidth 35.61 MHz Power 16.81 dBm

### 802.11ax (HE40)_Chain 1 / CH142 (U-NII-3 Band)



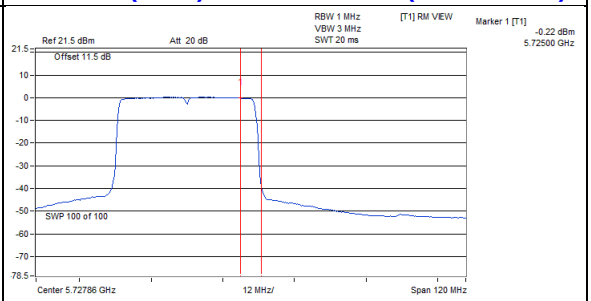

TX Channel Bandwidth 5.6 MHz Power 7.19 dBm

### 802.11ax (HE40)_Chain 2 / CH142 (U-NII-2C Band)



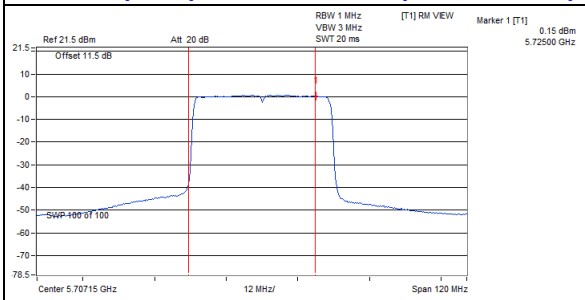

TX Channel Bandwidth 35.68 MHz Power 16.45 dBm

### 802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



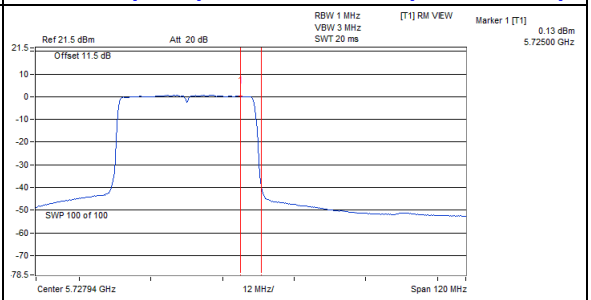

TX Channel Bandwidth 5.73 MHz Power 6.76 dBm

### 802.11ax (HE40)_Chain 3 / CH142 (U-NII-2C Band)

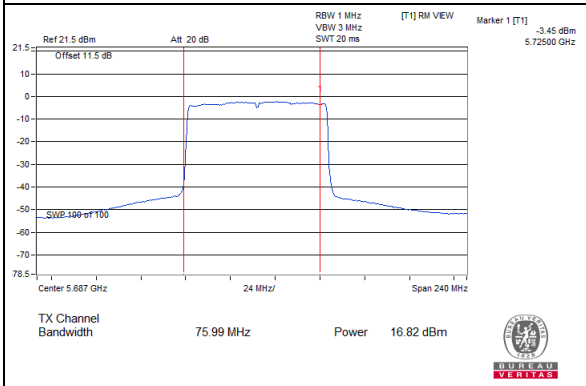
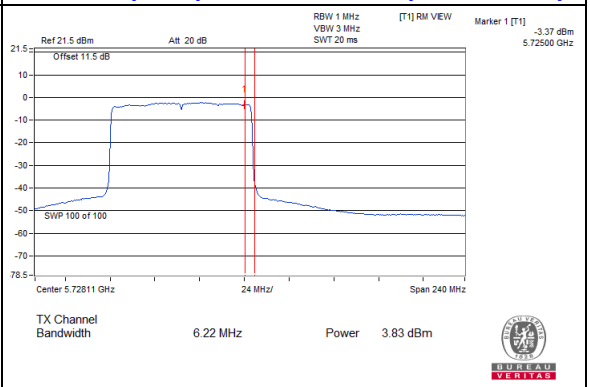
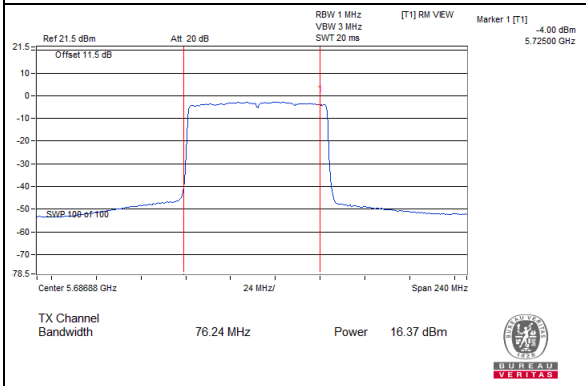
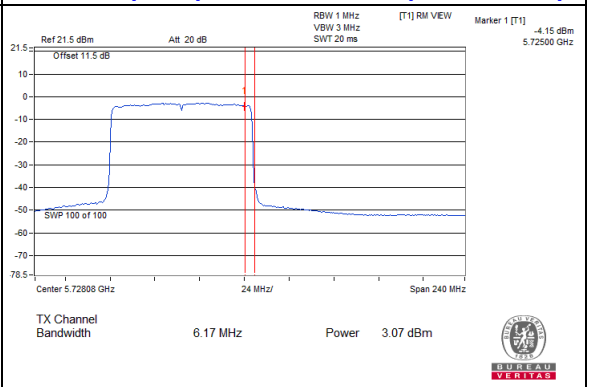
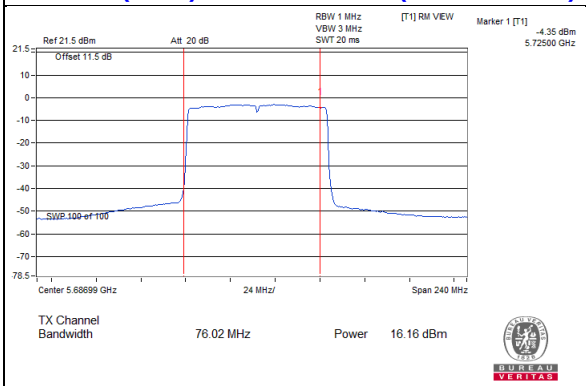
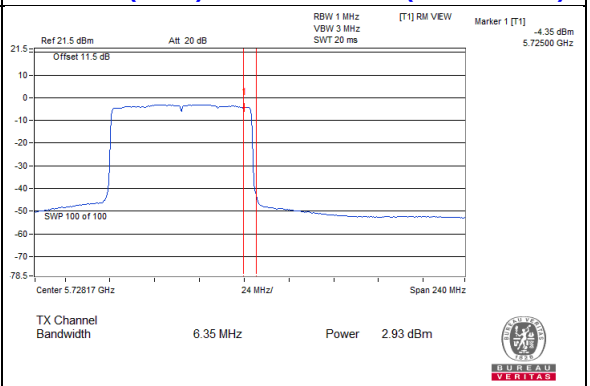
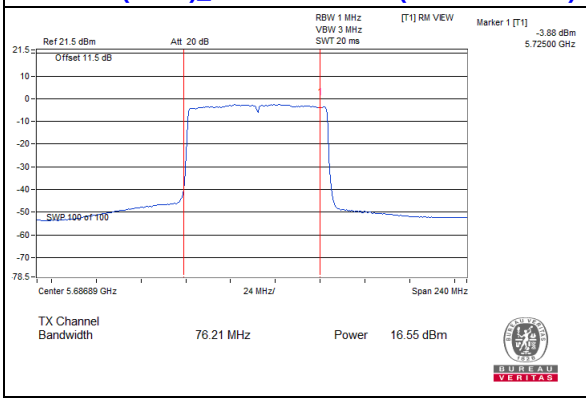
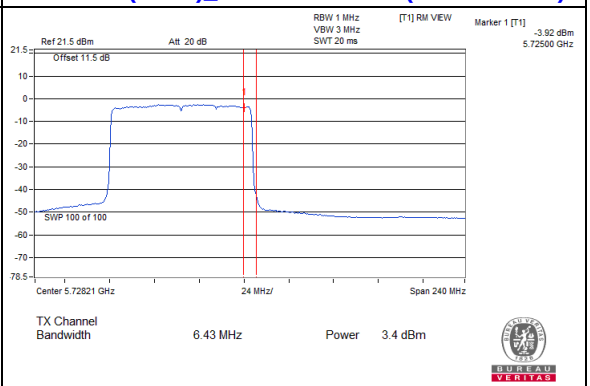



TX Channel Bandwidth 35.7 MHz Power 16.66 dBm

### 802.11ax (HE40)_Chain 3 / CH142 (U-NII-3 Band)

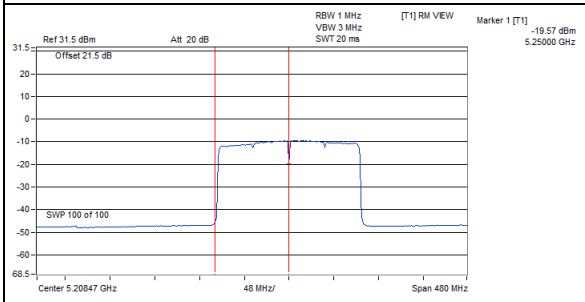



TX Channel Bandwidth 5.89 MHz Power 7.09 dBm

| Spectrum Plot Value of Power | |
|---|---|
| **802.11ax (HE80)_Chain 0 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 75.99 MHz Power 16.82 dBm |  <br>TX Channel Bandwidth 6.22 MHz Power 3.83 dBm |
| **802.11ax (HE80)_Chain 1 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 1 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 76.24 MHz Power 16.37 dBm |  <br>TX Channel Bandwidth 6.17 MHz Power 3.07 dBm |
| **802.11ax (HE80)_Chain 2 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 2 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 76.02 MHz Power 16.16 dBm |  <br>TX Channel Bandwidth 6.35 MHz Power 2.93 dBm |
| **802.11ax (HE80)_Chain 3 / CH138 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 3 / CH138 (U-NII-3 Band)** |
|  <br>TX Channel Bandwidth 76.21 MHz Power 16.55 dBm |  <br>TX Channel Bandwidth 6.43 MHz Power 3.4 dBm |

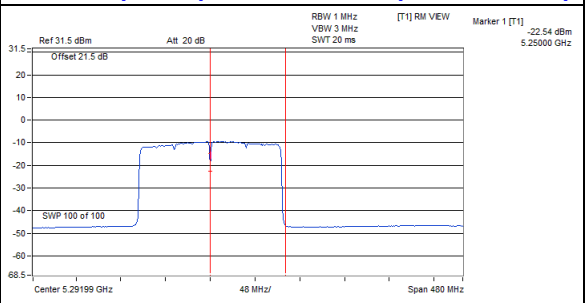
## Spectrum Plot Value of Power

### 802.11ax (HE160)_Chain 0 / CH50 (U-NII-1 Band)



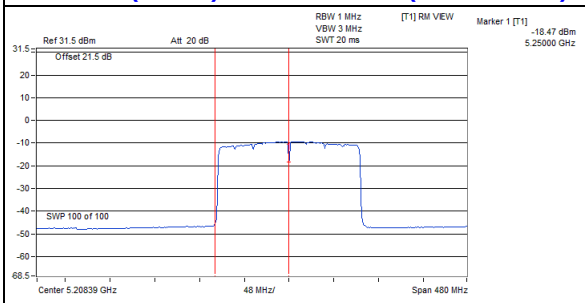

TX Channel Bandwidth 83.05 MHz Power 11.61 dBm

### 802.11ax (HE160)_Chain 0 / CH50 (U-NII-2A Band)



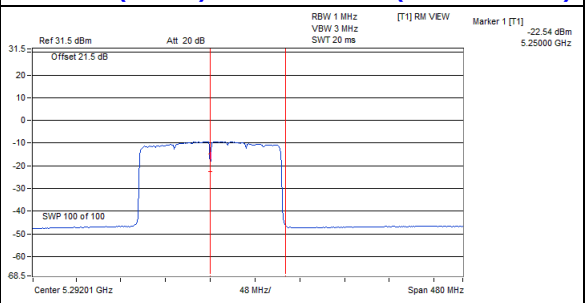

TX Channel Bandwidth 83.98 MHz Power 12.16 dBm

### 802.11ax (HE160)_Chain 1 / CH50 (U-NII-1 Band)



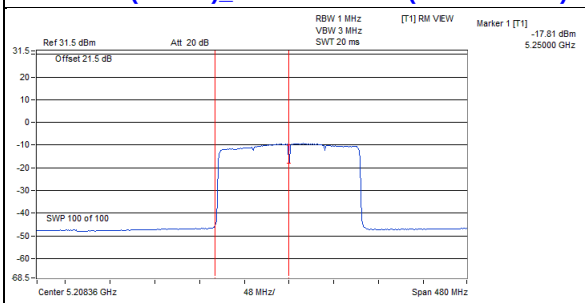

TX Channel Bandwidth 83.22 MHz Power 11.84 dBm

### 802.11ax (HE160)_Chain 1 / CH50 (U-NII-2A Band)



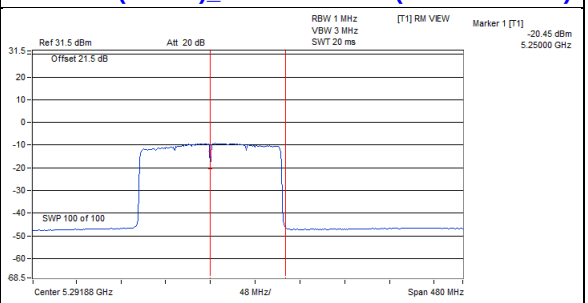

TX Channel Bandwidth 84.03 MHz Power 12.12 dBm

### 802.11ax (HE160)_Chain 2 / CH50 (U-NII-1 Band)



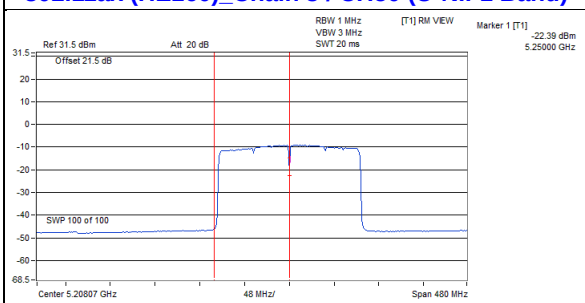

TX Channel Bandwidth 83.28 MHz Power 11.62 dBm

### 802.11ax (HE160)_Chain 2 / CH50 (U-NII-2A Band)



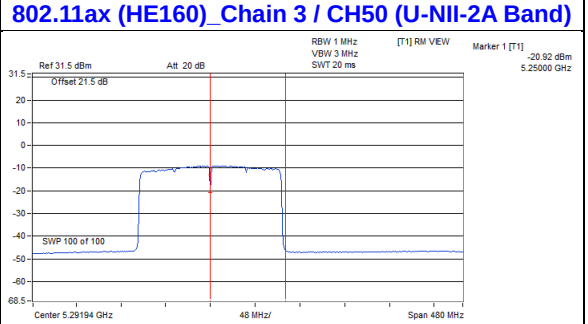

TX Channel Bandwidth 83.77 MHz Power 11.38 dBm

### 802.11ax (HE160)_Chain 3 / CH50 (U-NII-1 Band)




TX Channel Bandwidth 83.86 MHz Power 11.99 dBm

### 802.11ax (HE160)_Chain 3 / CH50 (U-NII-2A Band)




TX Channel Bandwidth 83.88 MHz Power 12.58 dBm

## 26dB Bandwidth:

### 802.11a

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 52 | 5260 | 21.75 | 21.9 | 21.88 | 21.64 |
| 60 | 5300 | 21.74 | 21.91 | 21.91 | 21.64 |
| 64 | 5320 | 21.74 | 21.84 | 21.74 | 21.59 |
| 100 | 5500 | 21.8 | 21.9 | 21.83 | 21.67 |
| 116 | 5580 | 21.82 | 21.85 | 21.8 | 21.6 |
| 140 | 5700 | 21.72 | 21.95 | 21.81 | 21.64 |
| 144 (U-NII-2C Band) | 5720 | 15.81 | 15.9 | 15.78 | 15.62 |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 52 | 5260 | 21.69 | 22.05 | 22.04 | 21.8 |
| 60 | 5300 | 21.64 | 21.96 | 21.93 | 21.83 |
| 64 | 5320 | 21.69 | 22.03 | 21.84 | 21.84 |
| 100 | 5500 | 21.76 | 22.04 | 21.78 | 21.76 |
| 116 | 5580 | 21.7 | 21.98 | 21.99 | 21.75 |
| 140 | 5700 | 21.64 | 22.04 | 21.94 | 21.8 |
| 144 (U-NII-2C Band) | 5720 | 15.77 | 16.11 | 15.86 | 15.78 |

### 802.11ax (HE40)

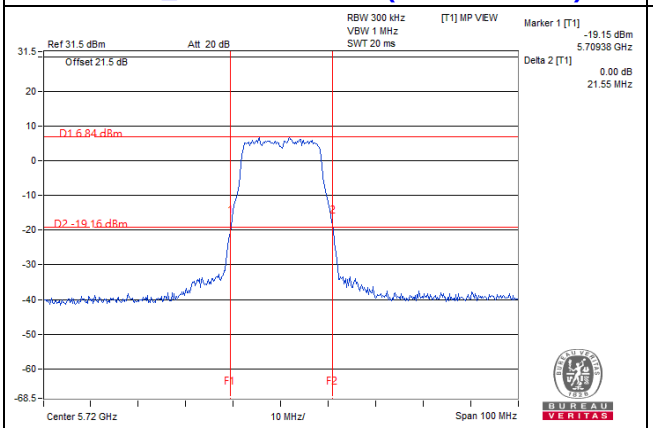
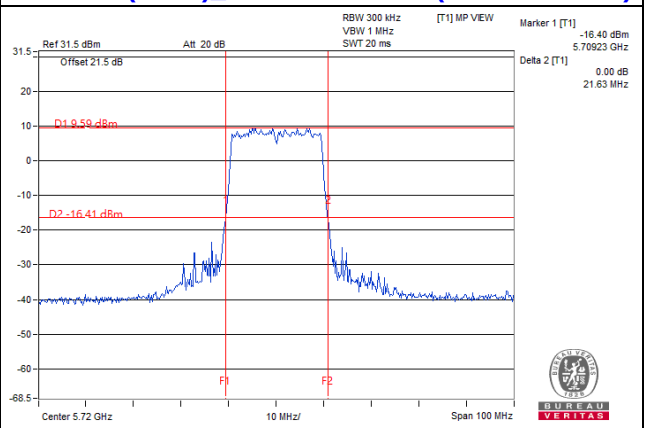
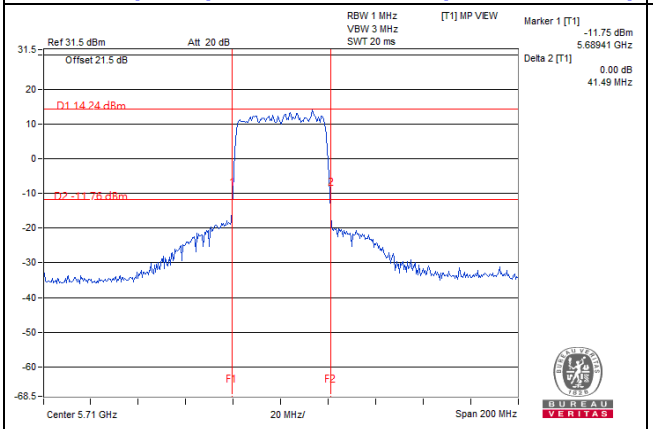
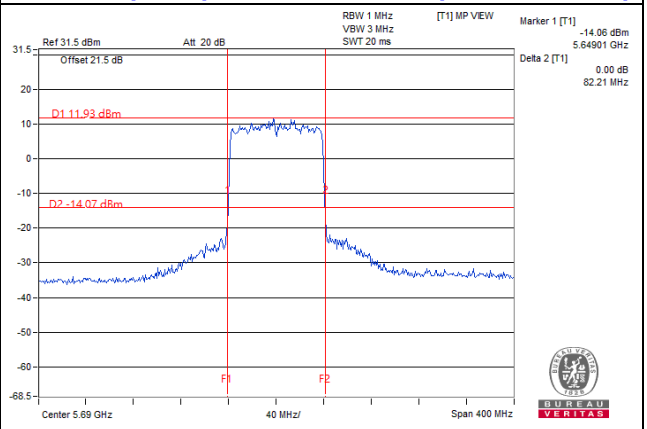
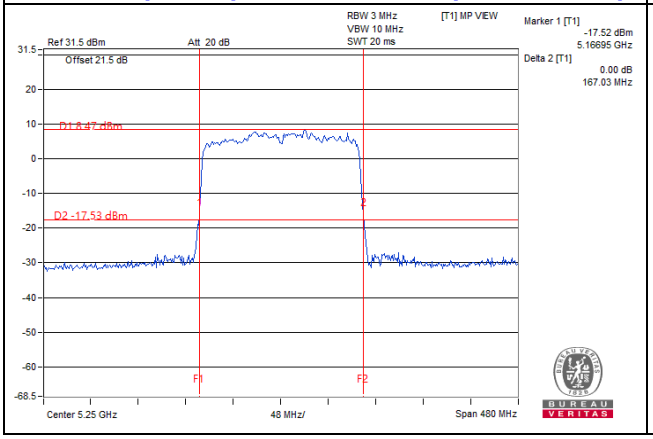
| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 54 | 5270 | 41.54 | 41.25 | 41.62 | 41.55 |
| 62 | 5310 | 41.41 | 41.31 | 41.36 | 41.43 |
| 102 | 5510 | 41.51 | 41.27 | 41.54 | 41.36 |
| 110 | 5550 | 41.52 | 41.26 | 41.34 | 41.44 |
| 134 | 5670 | 41.6 | 41.27 | 41.27 | 41.35 |
| 142 (U-NII-2C Band) | 5710 | 35.59 | 35.61 | 35.68 | 35.7 |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 58 | 5290 | 82.37 | 82.73 | 82.51 | 82.79 |
| 106 | 5530 | 82.44 | 82.57 | 82.27 | 82.71 |
| 122 | 5610 | 82.27 | 82.56 | 82.19 | 82.91 |
| 138 (U-NII-2C Band) | 5690 | 75.99 | 76.24 | 76.02 | 76.21 |

### 802.11ax (HE160)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 50 (U-NII-1 Band) | 5250 | 83.05 | 83.22 | 83.28 | 83.36 |
| 50 (U-NII-2A Band) | 5250 | 83.98 | 84.03 | 83.77 | 83.88 |
| 114 | 5570 | 168.36 | 168 | 167.9 | 168.18 |

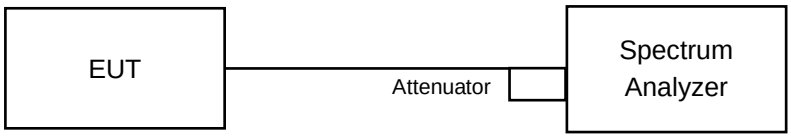
| Spectrum Plot of Worst Value | |
|---|---|
| **802.11a_Chain 3 / CH144 (U-NII-2C Band)** | **802.11ax (HE20)_Chain 0 / CH144 (U-NII-2C Band)** |
|  |  |
| **802.11ax (HE40)_Chain 0 / CH142 (U-NII-2C Band)** | **802.11ax (HE80)_Chain 0 / CH138 (U-NII-2C Band)** |
|  |  |
| **802.11ax (HE160)_Chain 0 / CH50 (U-NII-1 Band)** | |
|  | |

**Note:**

For CH144 (U-NII-2C) = 5725MHz - Marker 1
For CH142 (U-NII-2C) = 5725MHz - Marker 1
For CH138 (U-NII-2C) = 5725MHz - Marker 1
For CH50 (U-NII-1) = 5250MHz - Marker 1

## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup




### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

4.4.4 Test Results

**CDD Mode**

**802.11a**

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 36 | 5180 | 17.52 | 17.52 | 17.52 | 17.28 |
| 40 | 5200 | 17.4 | 17.52 | 17.4 | 17.4 |
| 48 | 5240 | 17.52 | 17.64 | 17.52 | 17.4 |
| 52 | 5260 | 16.92 | 17.04 | 16.92 | 16.92 |
| 60 | 5300 | 16.92 | 17.04 | 17.04 | 16.92 |
| 64 | 5320 | 16.92 | 17.04 | 16.92 | 16.92 |
| 100 | 5500 | 16.92 | 17.16 | 16.92 | 16.92 |
| 116 | 5580 | 16.92 | 17.04 | 17.04 | 16.92 |
| 140 | 5700 | 16.92 | 17.04 | 17.16 | 17.04 |
| 144 (U-NII-2C Band) | 5720 | 13.4 | 13.52 | 13.4 | 13.4 |
| 144 (U-NII-3 Band) | 5720 | 3.52 | 3.52 | 3.52 | 3.64 |
| 149 | 5745 | 17.88 | 18.24 | 17.76 | 17.64 |
| 157 | 5785 | 18.12 | 18.36 | 18.12 | 17.76 |
| 165 | 5825 | 17.88 | 18.12 | 18 | 17.52 |

**802.11ax (HE20)**

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 36 | 5180 | 19.2 | 19.32 | 19.2 | 19.2 |
| 40 | 5200 | 19.44 | 19.56 | 19.32 | 19.44 |
| 48 | 5240 | 19.08 | 19.32 | 19.08 | 19.2 |
| 52 | 5260 | 19.08 | 19.32 | 19.08 | 19.08 |
| 60 | 5300 | 19.08 | 19.32 | 19.08 | 19.08 |
| 64 | 5320 | 19.08 | 19.2 | 19.2 | 19.08 |
| 100 | 5500 | 19.08 | 19.2 | 19.2 | 19.2 |
| 116 | 5580 | 18.96 | 19.2 | 19.08 | 19.2 |
| 140 | 5700 | 19.08 | 19.2 | 19.08 | 19.2 |
| 144 (U-NII-2C Band) | 5720 | 14.6 | 14.72 | 14.48 | 14.48 |
| 144 (U-NII-3 Band) | 5720 | 4.48 | 4.6 | 4.6 | 4.6 |
| 149 | 5745 | 19.92 | 21 | 21.48 | 20.28 |
| 157 | 5785 | 20.04 | 21 | 22.32 | 20.52 |
| 165 | 5825 | 21.12 | 20.64 | 21.96 | 19.92 |

### 802.11ax (HE40)

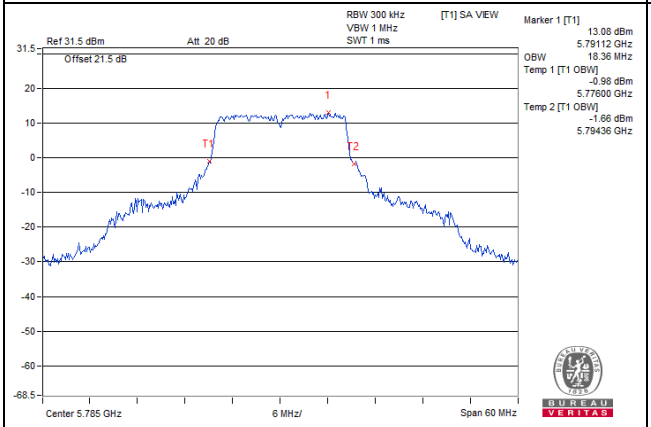
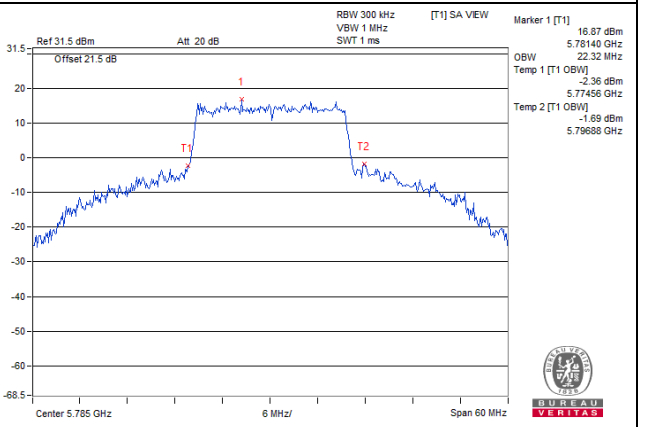
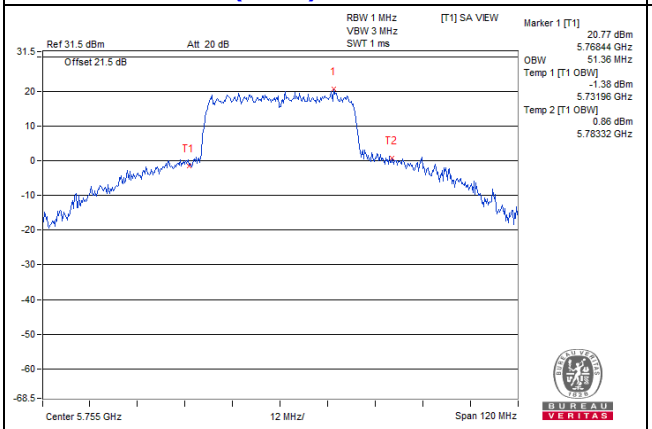
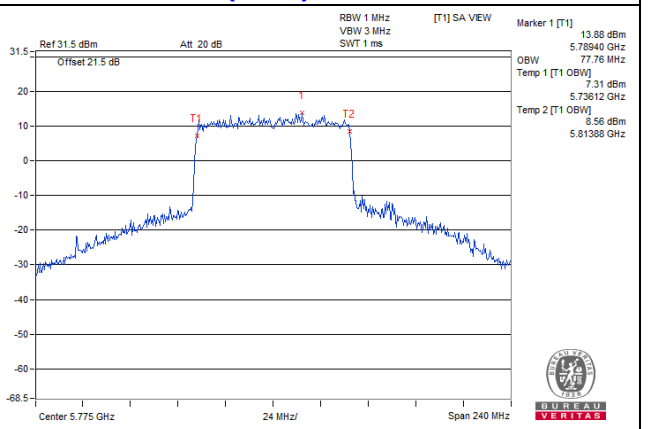
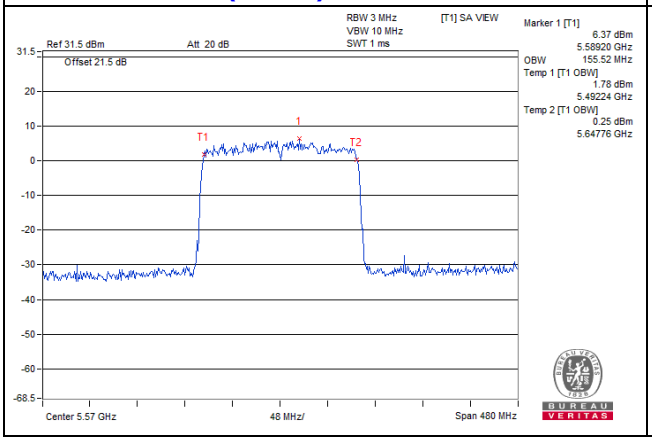
| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 38 | 5190 | 37.92 | 37.92 | 37.92 | 37.92 |
| 46 | 5230 | 37.92 | 37.92 | 37.92 | 37.92 |
| 54 | 5270 | 37.92 | 37.92 | 37.92 | 37.92 |
| 62 | 5310 | 37.68 | 37.92 | 37.92 | 37.92 |
| 102 | 5510 | 37.92 | 37.92 | 37.92 | 37.92 |
| 110 | 5550 | 37.92 | 37.92 | 37.92 | 37.92 |
| 134 | 5670 | 37.92 | 37.92 | 37.92 | 37.92 |
| 142 (U-NII-2C Band) | 5710 | 33.96 | 33.96 | 33.96 | 33.96 |
| 142 (U-NII-3 Band) | 5710 | 3.96 | 3.96 | 3.96 | 3.96 |
| 151 | 5755 | 39.84 | 49.68 | 48 | 51.36 |
| 159 | 5795 | 39.6 | 42.24 | 43.2 | 46.32 |

### 802.11ax (HE80)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 42 | 5210 | 76.8 | 76.8 | 76.8 | 76.8 |
| 58 | 5290 | 77.28 | 76.8 | 76.8 | 76.8 |
| 106 | 5530 | 77.28 | 77.28 | 76.8 | 76.8 |
| 122 | 5610 | 76.8 | 76.8 | 76.8 | 76.8 |
| 138 (U-NII-2C Band) | 5690 | 73.4 | 73.4 | 73.4 | 73.4 |
| 138 (U-NII-3 Band) | 5690 | 3.88 | 3.4 | 3.4 | 3.4 |
| 155 | 5775 | 77.76 | 77.76 | 77.28 | 77.28 |

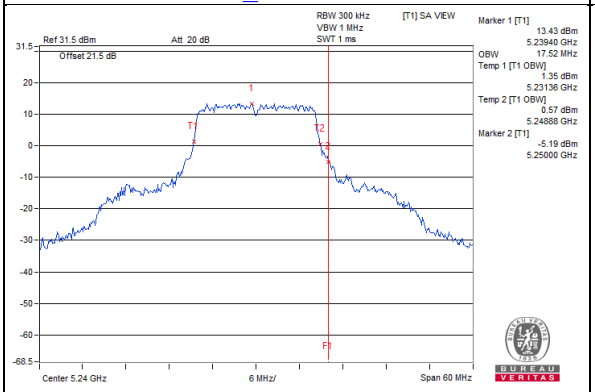
### 802.11ax (HE160)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 50 (U-NII-1 Band) | 5250 | 77.76 | 77.76 | 77.76 | 77.76 |
| 50 (U-NII-2A Band) | 5250 | 77.76 | 77.76 | 77.76 | 77.76 |
| 114 | 5570 | 155.52 | 155.52 | 155.52 | 155.52 |

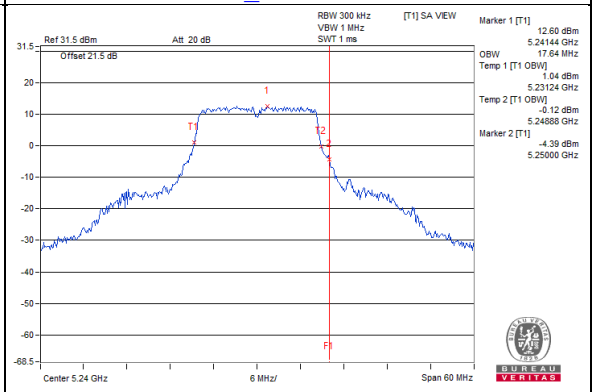
| Spectrum Plot of Worst Value | |
|---|---|
| **802.11a_Chain 1 / CH157** | **802.11ax (HE20)_Chain 2 / CH157** |
|  |  |
| **802.11ax (HE40)_Chain 3 / CH151** | **802.11ax (HE80)_Chain 0 / CH155** |
|  |  |
| **802.11ax (HE160)_Chain 0 / CH114** | |
|  | |

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

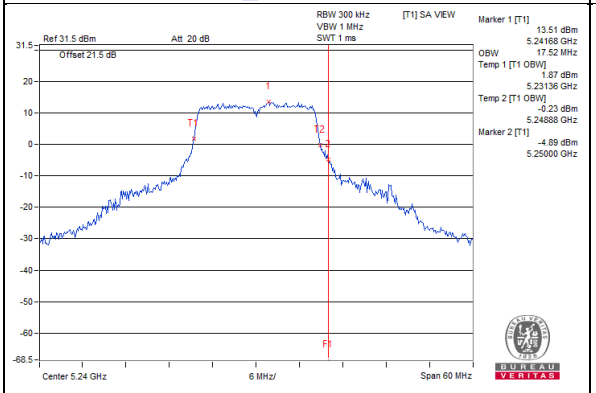
## 802.11a_Chain 0 / CH48



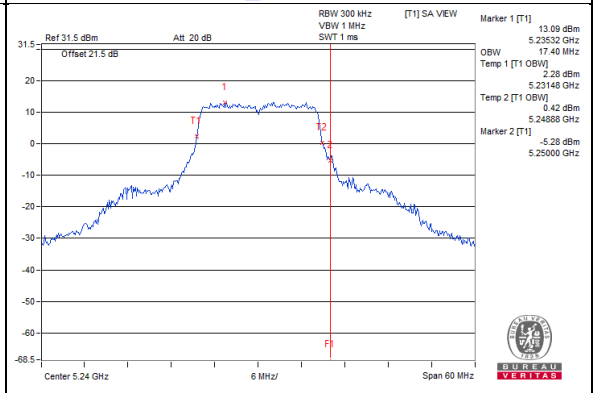

## 802.11a_Chain 1 / CH48



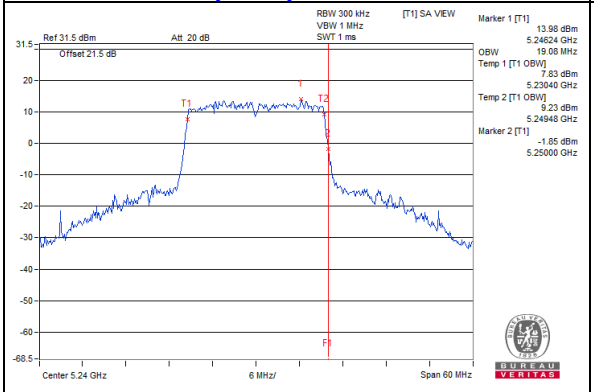

## 802.11a_Chain 2 / CH48



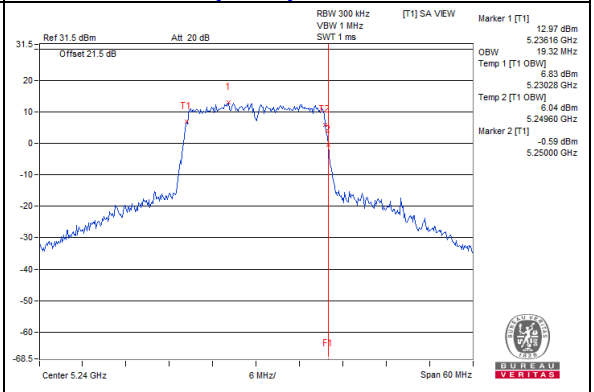

## 802.11a_Chain 3 / CH48



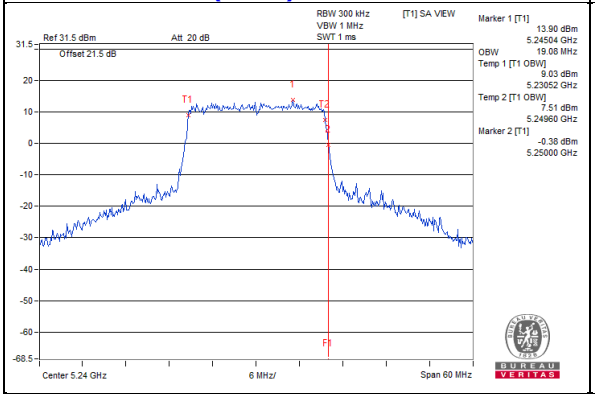

## 802.11ax (HE20)_Chain 0 / CH48



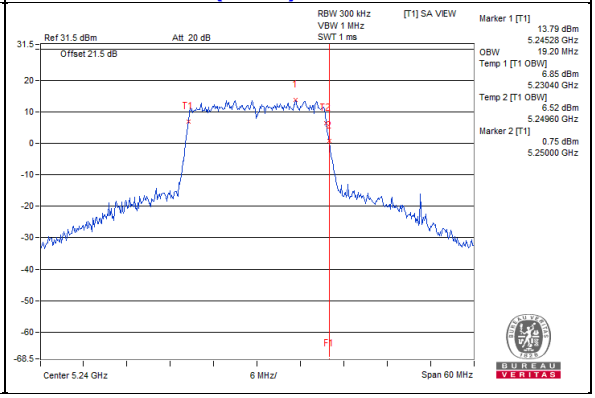

## 802.11ax (HE20)_Chain 1 / CH48




## 802.11ax (HE20)_Chain 2 / CH48

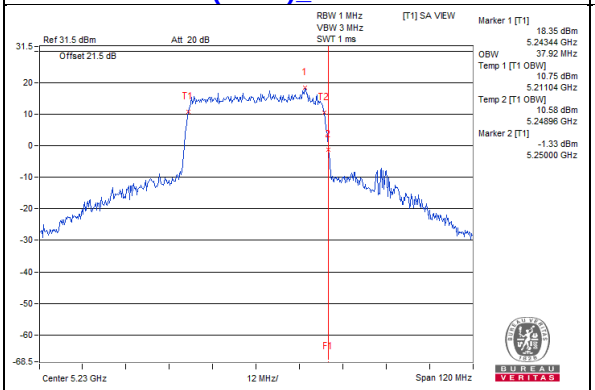



## 802.11ax (HE20)_Chain 3 / CH48

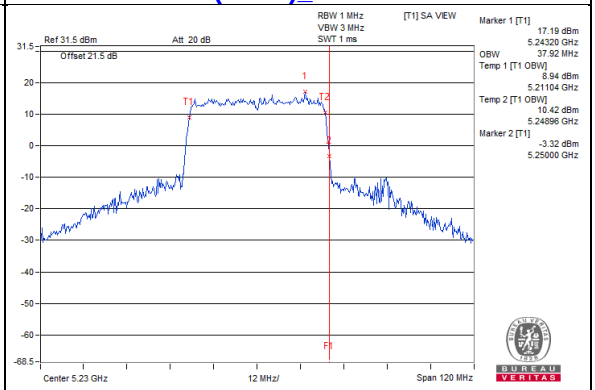


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

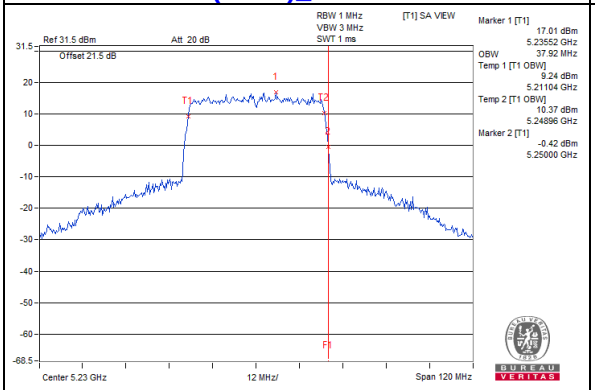
## 802.11ax (HE40)_Chain 0 / CH46



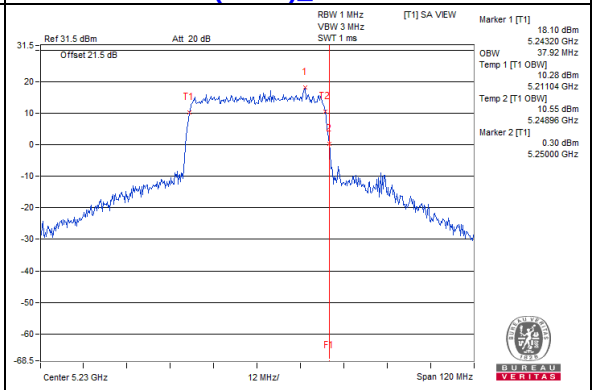

## 802.11ax (HE40)_Chain 1 / CH46



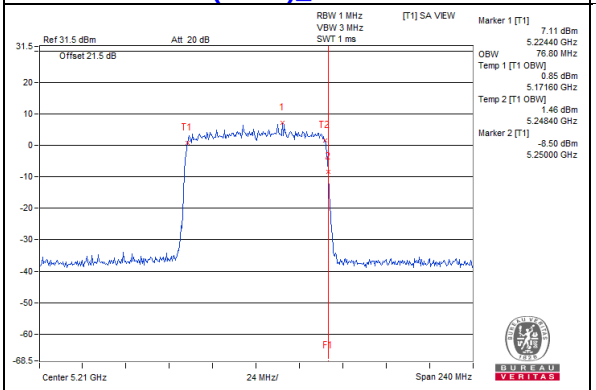

## 802.11ax (HE40)_Chain 2 / CH46



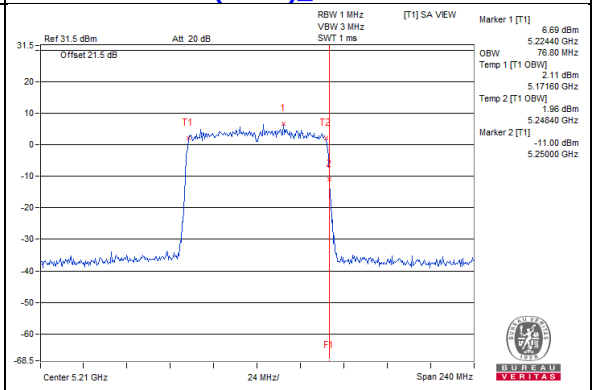

## 802.11ax (HE40)_Chain 3 / CH46



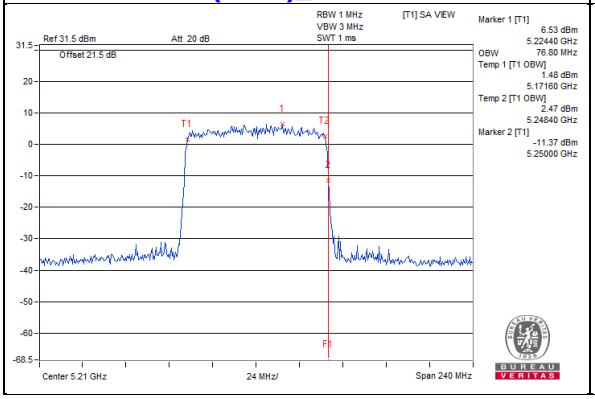

## 802.11ax (HE80)_Chain 0 / CH42



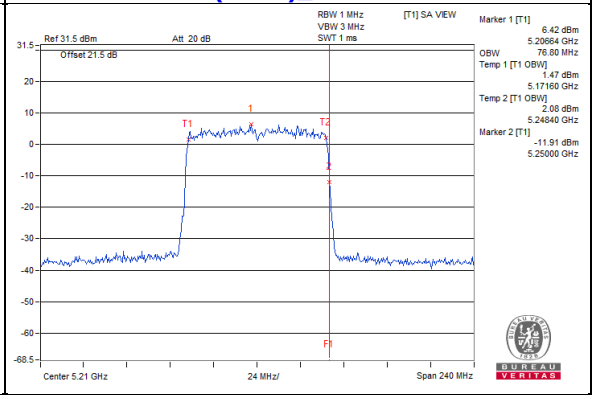

## 802.11ax (HE80)_Chain 1 / CH42




## 802.11ax (HE80)_Chain 2 / CH42

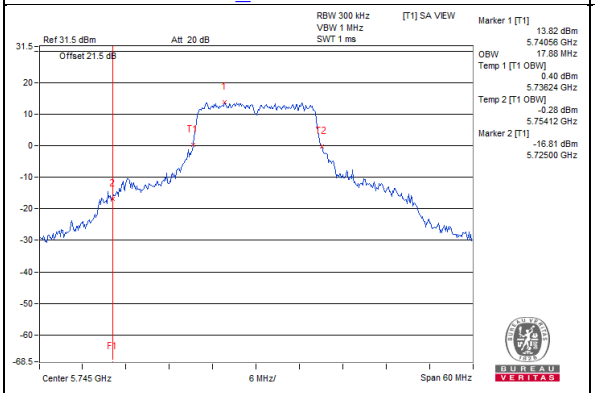



## 802.11ax (HE80)_Chain 3 / CH42

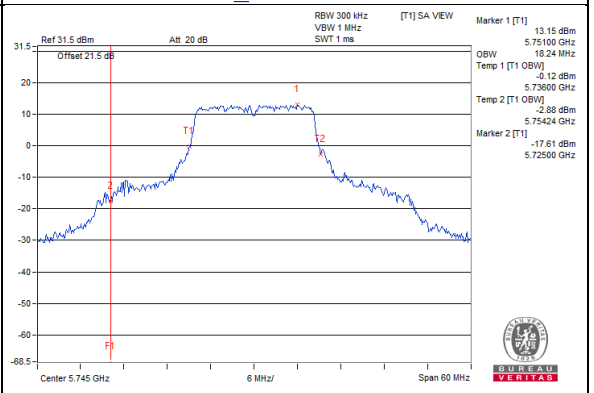


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

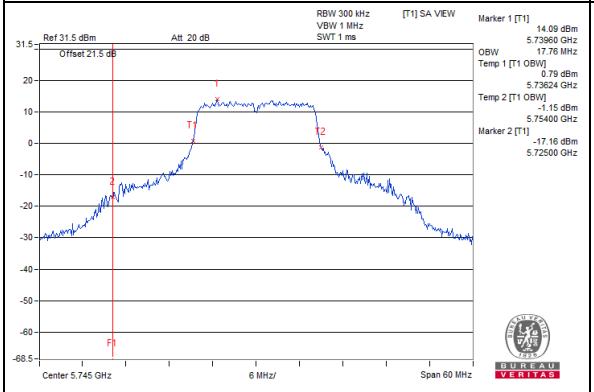
## 802.11a_Chain 0 / CH149



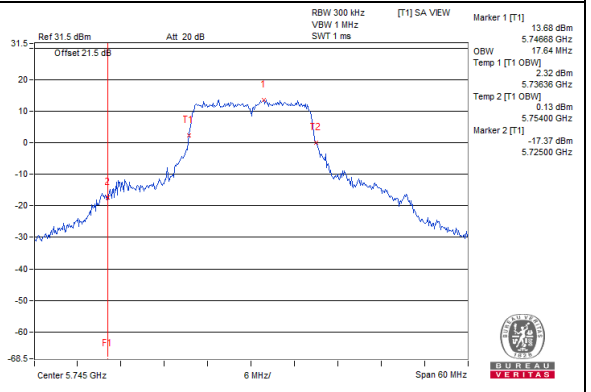

## 802.11a_Chain 1 / CH149



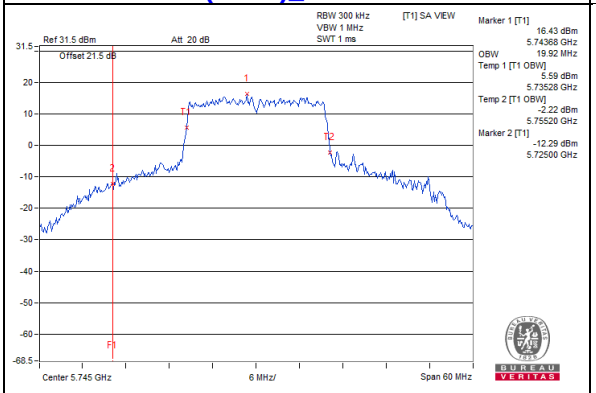

## 802.11a_Chain 2 / CH149



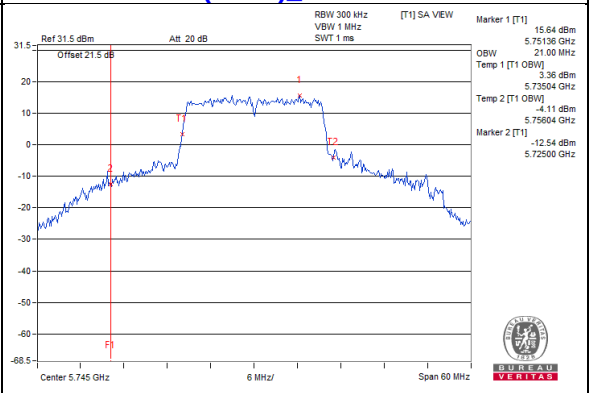

## 802.11a_Chain 3 / CH149



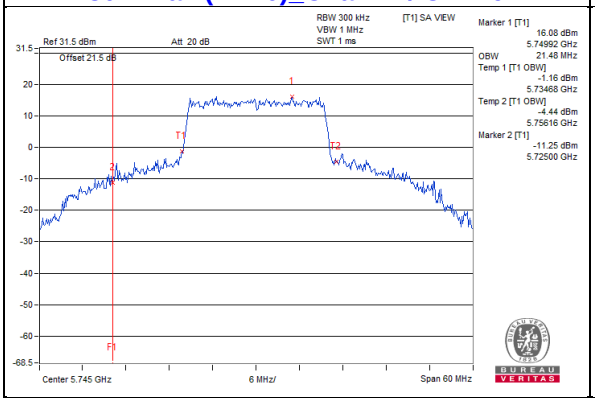

## 802.11ax (HE20)_Chain 0 / CH149



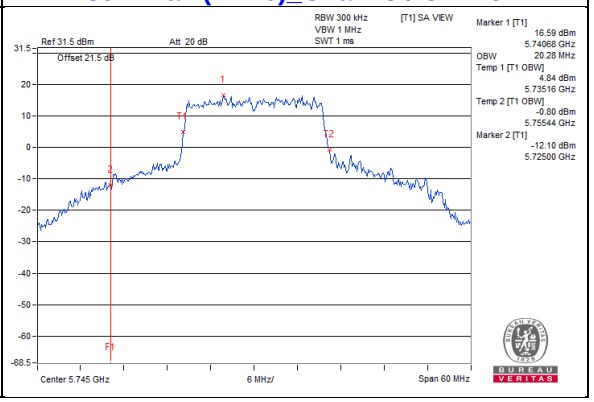

## 802.11ax (HE20)_Chain 1 / CH149




## 802.11ax (HE20)_Chain 2 / CH149

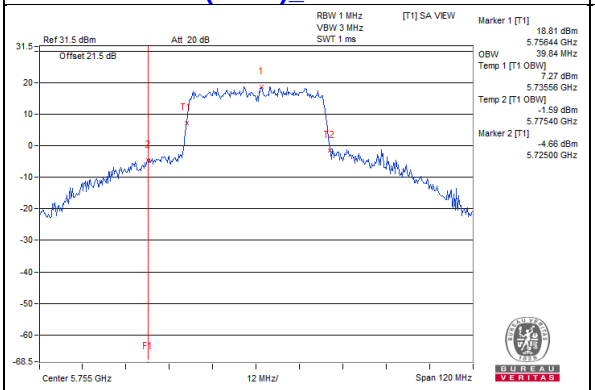



## 802.11ax (HE20)_Chain 3 / CH149

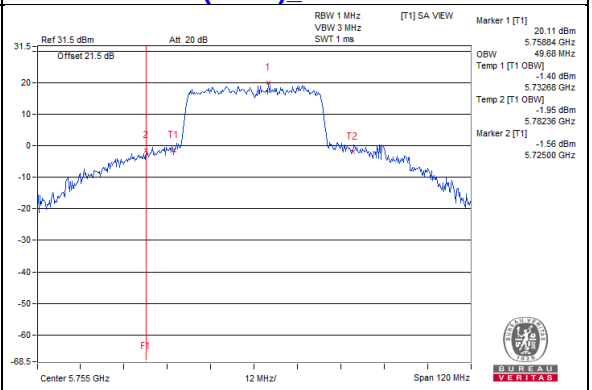


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

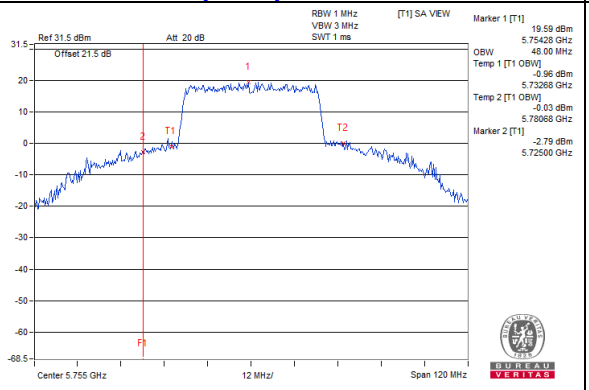
## 802.11ax (HE40)_Chain 0 / CH151



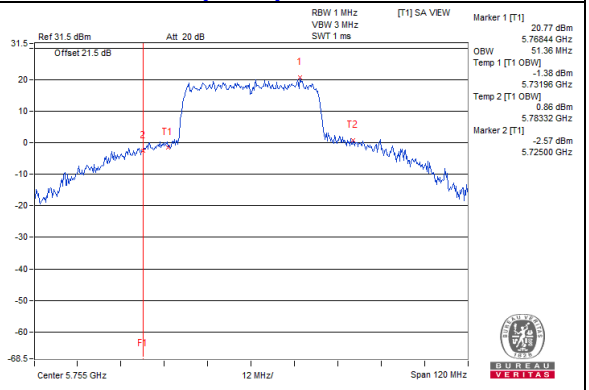

## 802.11ax (HE40)_Chain 1 / CH151



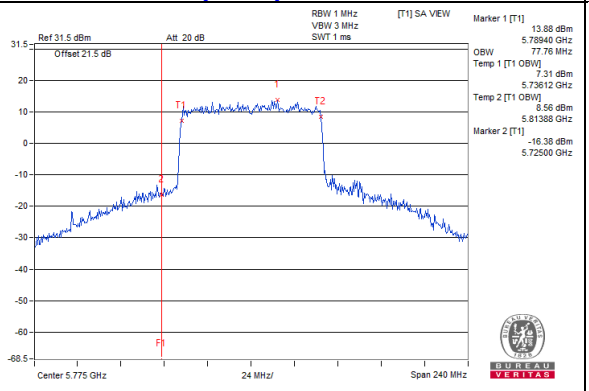

## 802.11ax (HE40)_Chain 2 / CH151



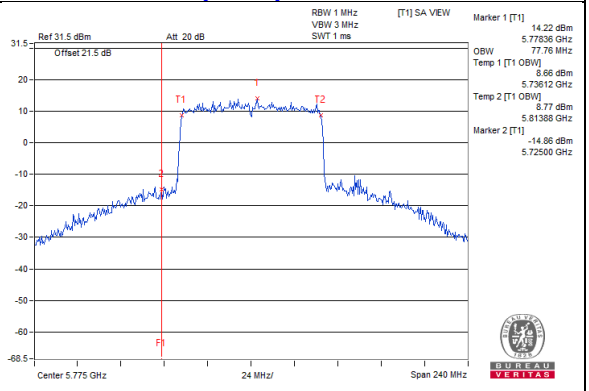

## 802.11ax (HE40)_Chain 3 / CH151



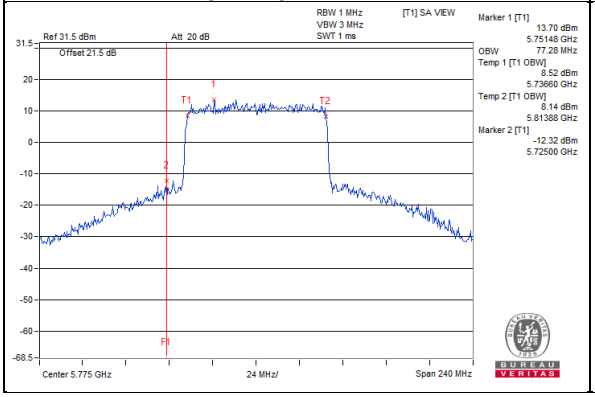

## 802.11ax (HE80)_Chain 0 / CH155



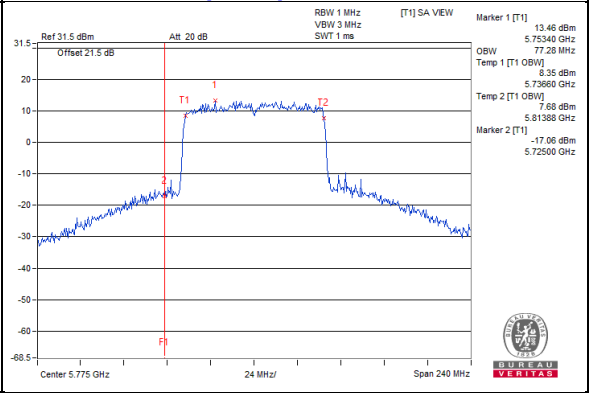

## 802.11ax (HE80)_Chain 1 / CH155



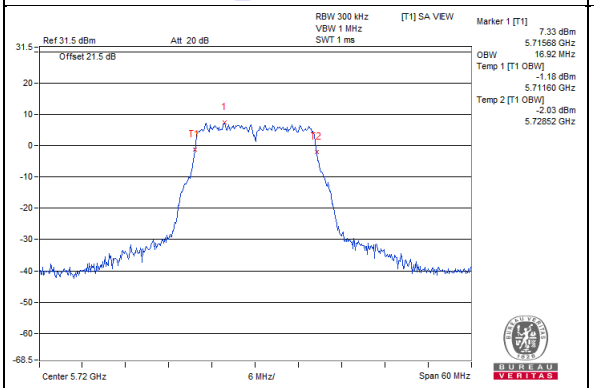
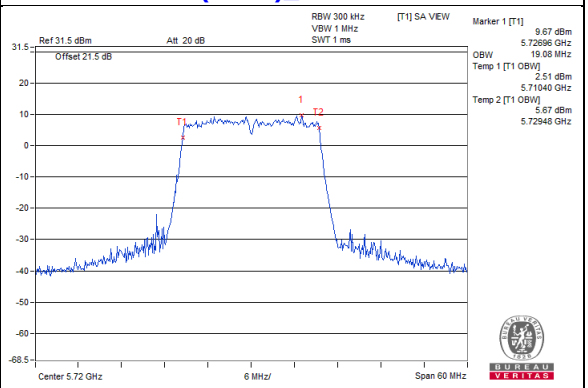
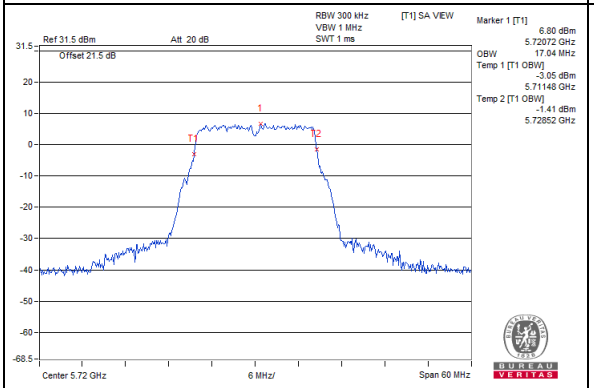
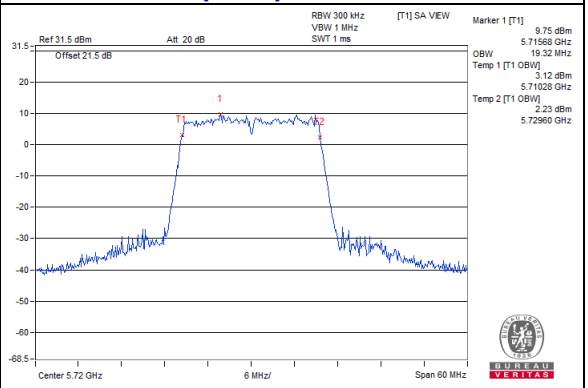
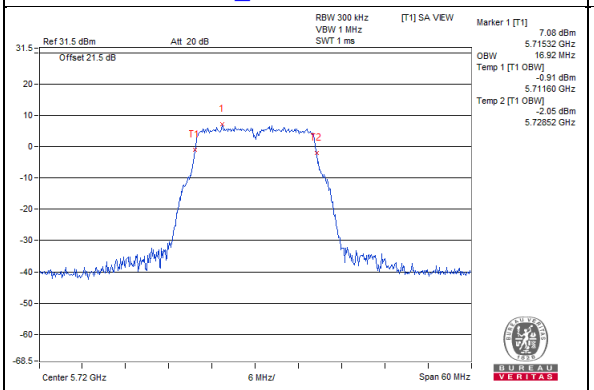
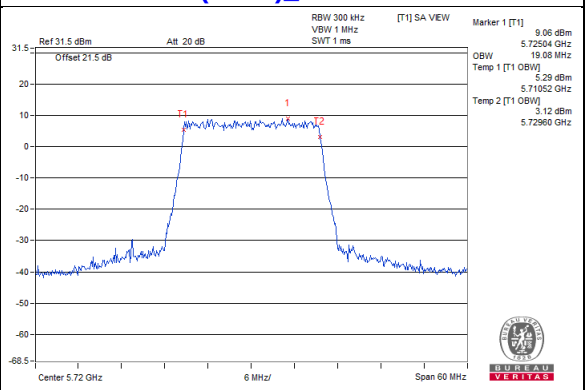
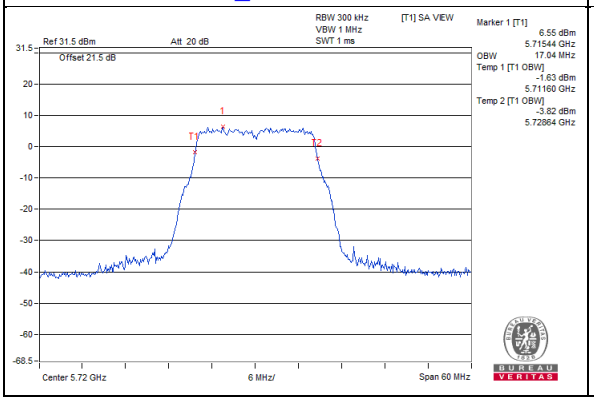
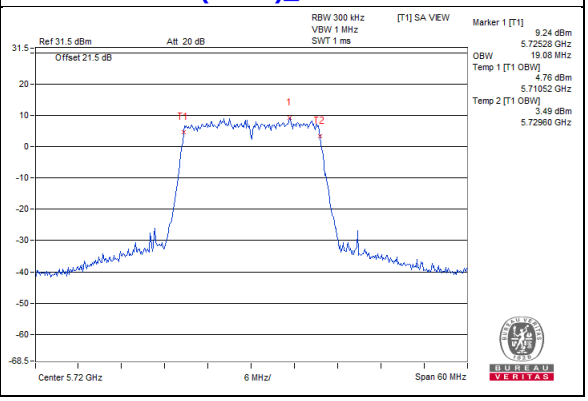

## 802.11ax (HE80)_Chain 2 / CH155




## 802.11ax (HE80)_Chain 3 / CH155



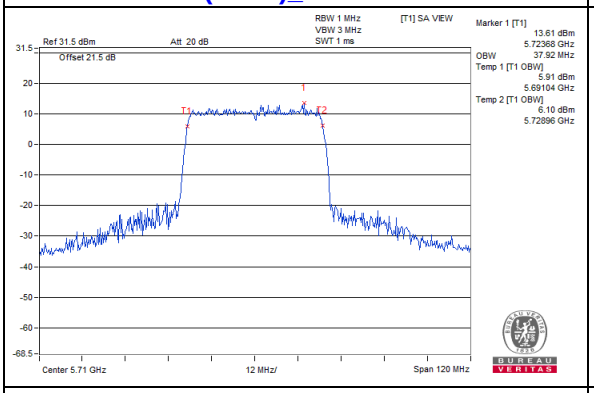
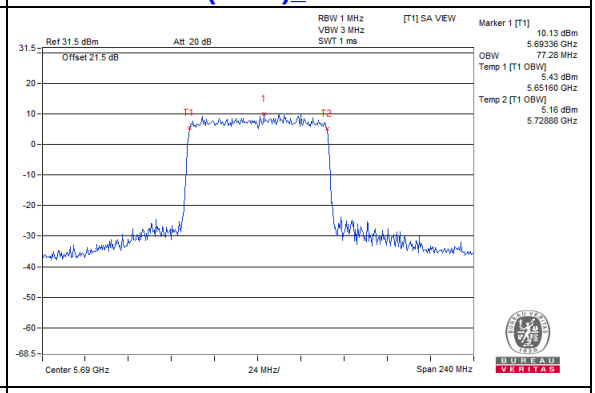
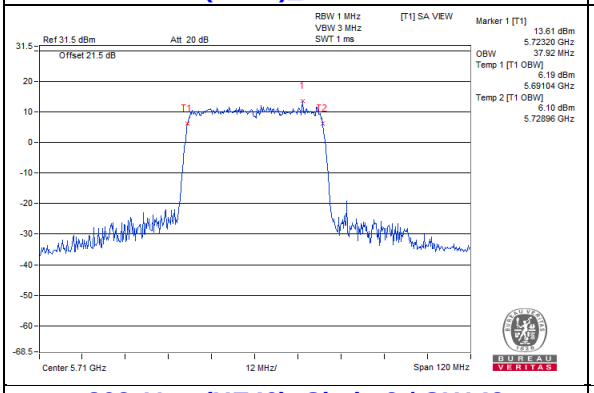
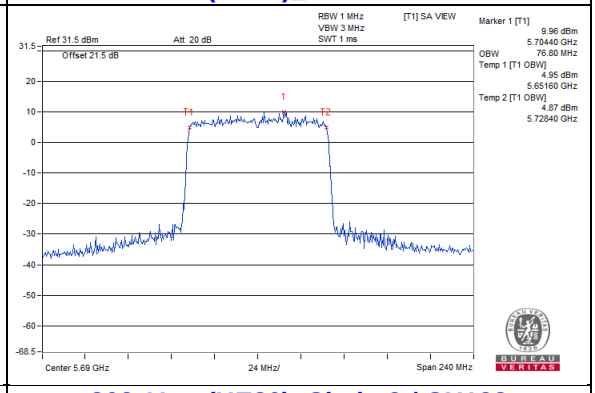
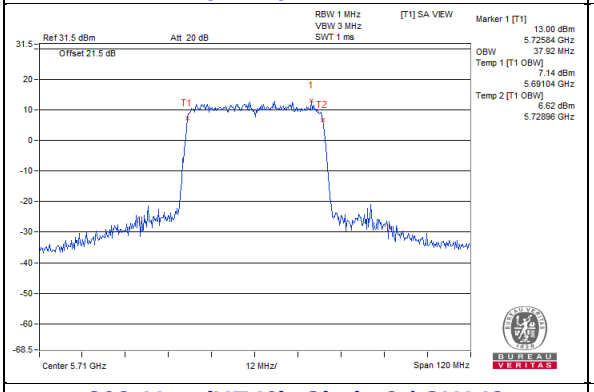
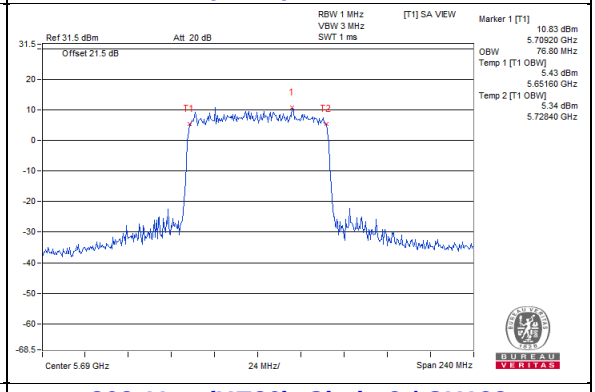
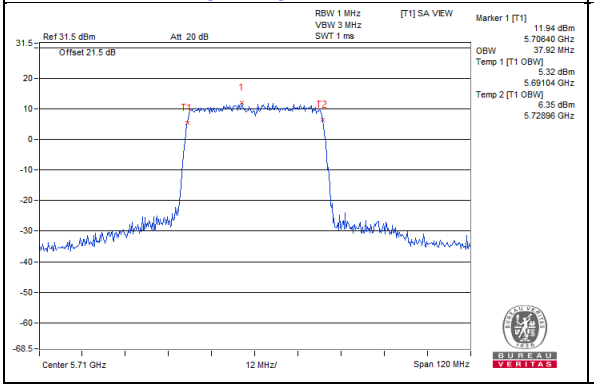
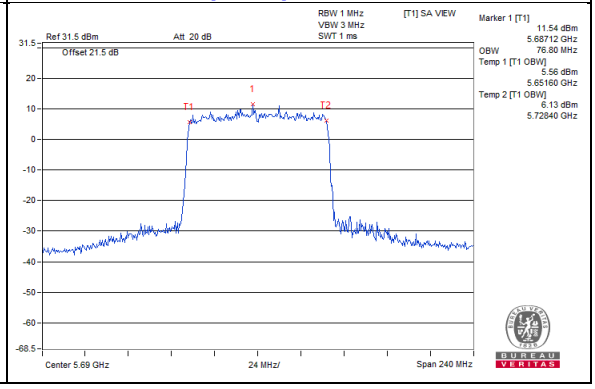
**For channel straddling 5250 MHz & 5725MHz of OCP99% BW**

| Spectrum Plot Value of OCP99% BW | |
|---|---|
| **802.11a_Chain 0 / CH144** | **802.11ax (HE20)_Chain 0 / CH144** |
|  |  |
| **802.11a_Chain 1 / CH144** | **802.11ax (HE20)_Chain 1 / CH144** |
|  |  |
| **802.11a_Chain 2 / CH144** | **802.11ax (HE20)_Chain 2 / CH144** |
|  |  |
| **802.11a_Chain 3 / CH144** | **802.11ax (HE20)_Chain 3 / CH144** |
|  |  |

**Note:**

For CH144 (U-NII-2C) = 5725MHz - Temp 1

For CH144 (U-NII-3) = Temp 2 - 5725MHz

| Spectrum Plot Value of OCP99% BW | |
|---|---|
| **802.11ax (HE40)_Chain 0 / CH142** | **802.11ax (HE80)_Chain 0 / CH138** |
|  |  |
| **802.11ax (HE40)_Chain 1 / CH142** | **802.11ax (HE80)_Chain 1 / CH138** |
|  |  |
| **802.11ax (HE40)_Chain 2 / CH142** | **802.11ax (HE80)_Chain 2 / CH138** |
|  |  |
| **802.11ax (HE40)_Chain 3 / CH142** | **802.11ax (HE80)_Chain 3 / CH138** |
|  |  |

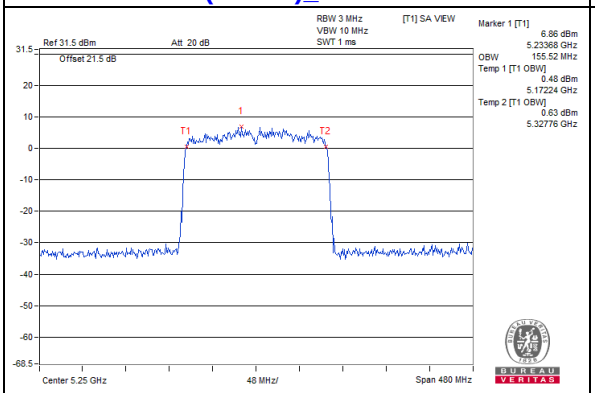
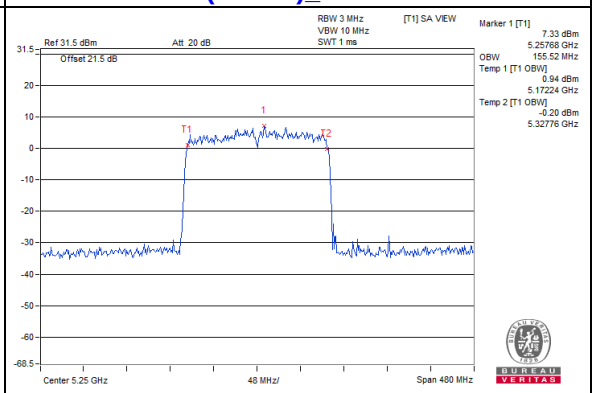
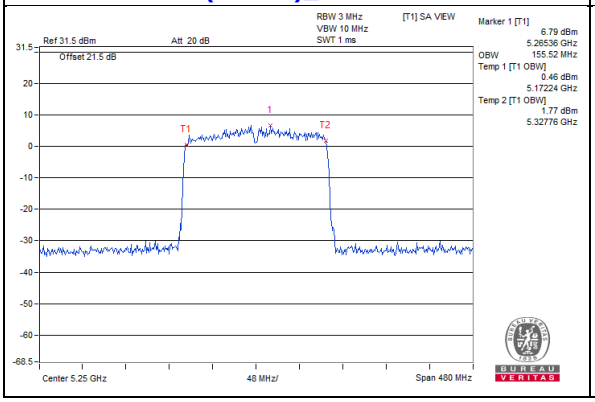
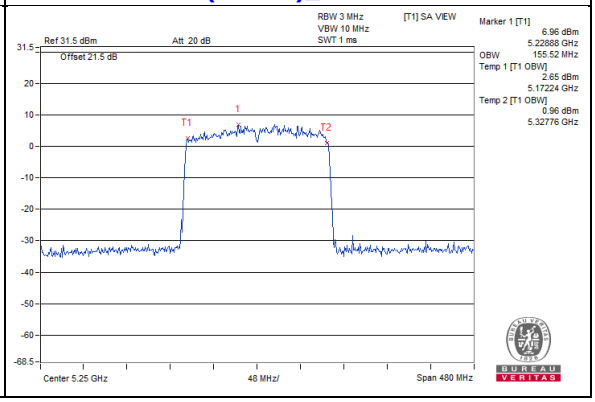
**Note:**

For CH142 (U-NII-2C) = 5725MHz - Temp 1

For CH138 (U-NII-2C) = 5725MHz - Temp 1

For CH142 (U-NII-3) = Temp 2 - 5725MHz

For CH138 (U-NII-3) = Temp 2 - 5725MHz

| Spectrum Plot Value of OCP99% BW | |
|---|---|
| **802.11ax (HE160)_Chain 0 / CH50** | **802.11ax (HE160)_Chain 2 / CH50** |
|  |  |
| **802.11ax (HE160)_Chain 1 / CH50** | **802.11ax (HE160)_Chain 3 / CH50** |
|  |  |









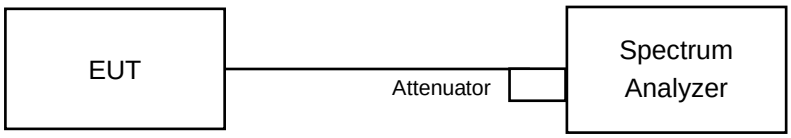
**Note:** For CH50 (U-NII-1) = 5250MHz – Temp 1
For CH50 (U-NII-2A) = Temp 2 – 5250MHz

## 4.5 Peak Power Spectral Density Measurement

### 4.5.1 Limits of Peak Power Spectral Density Measurement

| Operation Band | EUT Category | | Limit |
|---|---|---|---|
| U-NII-1 | | Outdoor Access Point | 17dBm/ MHz |
| | | Fixed point-to-point Access Point | |
| | √ | Indoor Access Point | |
| | | Client device | 11dBm/ MHz |
| U-NII-2A | √ | | 11dBm/ MHz |
| U-NII-2C | √ | | 11dBm/ MHz |
| U-NII-3 | √ | | 30dBm/ 500kHz |

### 4.5.2 Test Setup




### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

**For U-NII-1, U-NII-2A, U-NII-2C band:**

**For 802.11ac (VHT160) & 802.11ax (HE160) mode**

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to “free run”.
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

**For other modulation mode:**

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to “free run”.
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value

**For U-NII-3 band:**

**For 802.11ac (VHT160) & 802.11ax (HE160) mode**

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500kHz/300kHz)
5. Sweep time = auto, trigger set to “free run”.
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

**For other modulation mode:**

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500kHz/300kHz)
5. Sweep time = auto, trigger set to “free run”.
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results

**CDD Mode**

**For U-NII-1, U-NII-2A, U-NII-2C band:**

**802.11a**

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 36 | 5180 | 9.85 | 9.18 | 10.17 | 9.37 | 15.68 | 17.00 | Pass |
| 40 | 5200 | 9.86 | 8.93 | 9.54 | 8.94 | 15.36 | 17.00 | Pass |
| 48 | 5240 | 9.61 | 8.82 | 9.23 | 8.95 | 15.18 | 17.00 | Pass |
| 52 | 5260 | 1.96 | 1.83 | 2.05 | 2.27 | 8.05 | 11.00 | Pass |
| 60 | 5300 | 2.01 | 1.93 | 1.94 | 2.37 | 8.09 | 11.00 | Pass |
| 64 | 5320 | 2.12 | 1.88 | 2.13 | 2.43 | 8.17 | 11.00 | Pass |
| 100 | 5500 | 2.81 | 3.30 | 3.23 | 3.14 | 9.14 | 11.00 | Pass |
| 116 | 5580 | 2.90 | 3.32 | 3.34 | 3.25 | 9.23 | 11.00 | Pass |
| 140 | 5700 | 2.92 | 3.01 | 2.76 | 2.29 | 8.77 | 11.00 | Pass |
| 144 (U-NII-2C Band) | 5720 | 2.87 | 2.84 | 2.77 | 2.37 | 8.74 | 11.00 | Pass |

Note: 1. Method 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. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power density limit shall not be reduced.

**802.11ax (HE20)**

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 36 | 5180 | 6.14 | 6.10 | 6.19 | 6.66 | 12.30 | 17.00 | Pass |
| 40 | 5200 | 10.28 | 9.42 | 9.62 | 9.75 | 15.80 | 17.00 | Pass |
| 48 | 5240 | 7.99 | 7.19 | 7.44 | 7.38 | 13.53 | 17.00 | Pass |
| 52 | 5260 | 2.75 | 2.52 | 2.47 | 3.00 | 8.71 | 11.00 | Pass |
| 60 | 5300 | 2.70 | 2.51 | 2.36 | 3.15 | 8.71 | 11.00 | Pass |
| 64 | 5320 | 2.64 | 2.85 | 2.56 | 2.96 | 8.78 | 11.00 | Pass |
| 100 | 5500 | 3.02 | 3.64 | 3.20 | 3.41 | 9.34 | 11.00 | Pass |
| 116 | 5580 | 3.01 | 3.25 | 3.12 | 3.20 | 9.17 | 11.00 | Pass |
| 140 | 5700 | 3.02 | 3.19 | 2.79 | 2.31 | 8.86 | 11.00 | Pass |
| 144 (U-NII-2C Band) | 5720 | 3.50 | 3.65 | 3.19 | 2.94 | 9.35 | 11.00 | Pass |

Note: 1. Method 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. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power density limit shall not be reduced.

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 38 | 5190 | -1.55 | -2.17 | -1.75 | -1.45 | 4.30 | 17.00 | Pass |
| 46 | 5230 | 5.24 | 4.41 | 4.70 | 4.97 | 10.86 | 17.00 | Pass |
| 54 | 5270 | 0.97 | 0.64 | 1.99 | 1.88 | 7.43 | 11.00 | Pass |
| 62 | 5310 | -2.58 | -2.63 | -1.77 | -1.60 | 3.90 | 11.00 | Pass |
| 102 | 5510 | -1.90 | -1.59 | -1.03 | -0.54 | 4.79 | 11.00 | Pass |
| 110 | 5550 | 0.64 | 0.73 | 1.38 | 2.01 | 7.25 | 11.00 | Pass |
| 134 | 5670 | 0.73 | 0.58 | 1.23 | 1.08 | 6.93 | 11.00 | Pass |
| 142 (U-NII-2C Band) | 5710 | 0.82 | 0.39 | 1.14 | 0.72 | 6.80 | 11.00 | Pass |

Note: 1. Method 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. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power density limit shall not be reduced.

### 802.11ax (HE80)

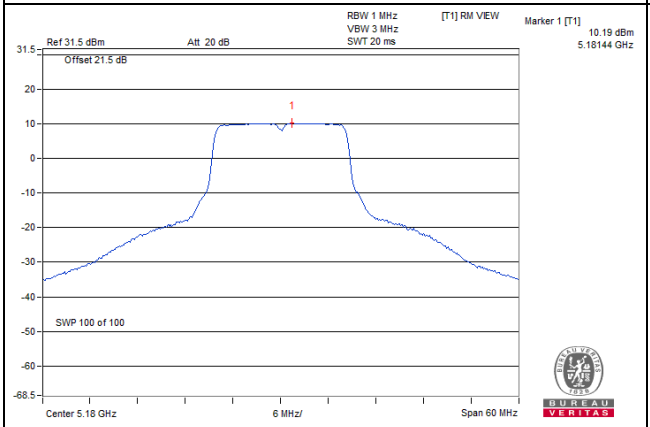
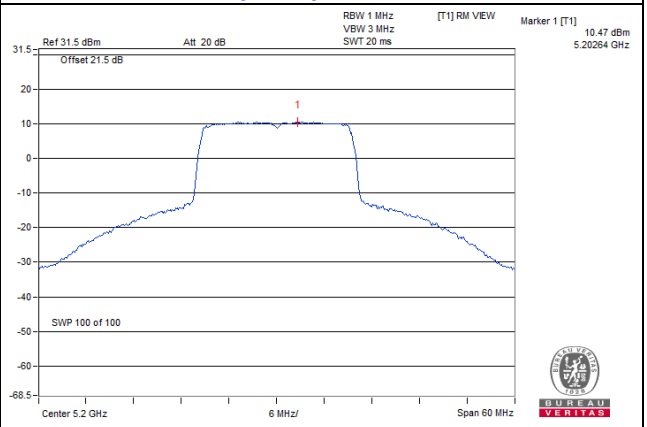
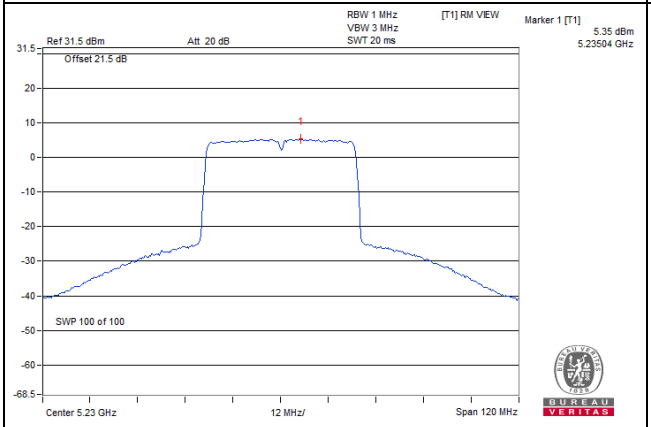
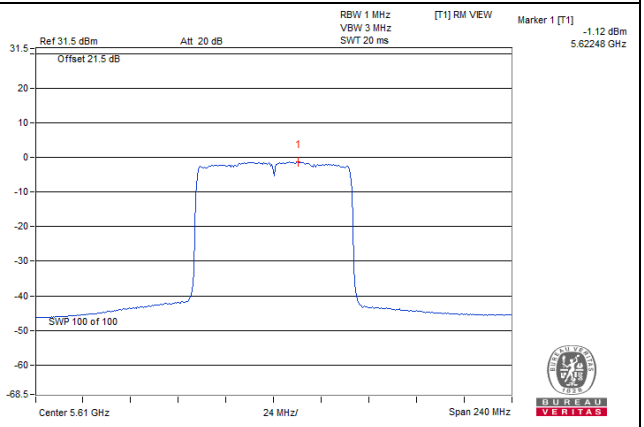
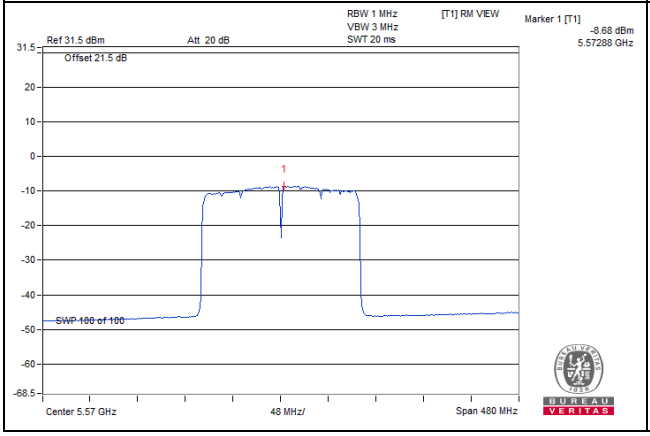
| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 42 | 5210 | -5.74 | -5.53 | -5.20 | -5.12 | 0.63 | 17.00 | Pass |
| 58 | 5290 | -5.35 | -5.15 | -5.93 | -4.83 | 0.72 | 11.00 | Pass |
| 106 | 5530 | -5.08 | -4.32 | -4.30 | -4.09 | 1.59 | 11.00 | Pass |
| 122 | 5610 | -1.12 | -1.85 | -1.70 | -1.19 | 4.57 | 11.00 | Pass |
| 138 (U-NII-2C Band) | 5690 | -1.62 | -2.16 | -1.87 | -1.30 | 4.29 | 11.00 | Pass |

Note: 1. Method 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. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power density limit shall not be reduced.

### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) | | | | Duty Factor (dB) | Total PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 50 (U-NII-1 Band) | 5250 | -9.32 | -9.63 | -9.41 | -8.85 | 0.12 | -3.15 | 17.00 | Pass |
| 50 (U-NII-2A Band) | 5250 | -9.39 | -9.38 | -9.40 | -8.85 | 0.12 | -3.11 | 11.00 | Pass |
| 114 | 5570 | -9.67 | -8.77 | -9.15 | -8.69 | 0.12 | -2.91 | 11.00 | Pass |

Note: 1. Method 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. For U-NII-1: The directional gain = 4.98dBi < 6dBi, so the power density limit shall not be reduced.
3. For U-NII-2A: The directional gain = 4.28dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2C: The directional gain = 3.07dBi < 6dBi, so the power density limit shall not be reduced.
5. Refer to section 3.3 for duty cycle spectrum plot.

| Spectrum Plot of Worst Value | |
|---|---|
| **802.11a_Chain 2 / CH36** | **802.11ax (HE20)_Chain 0 / CH40** |
|  |  |
| **802.11ax (HE40)_Chain 0 / CH46** | **802.11ax (HE80)_Chain 0 / CH122** |
|  |  |
| **802.11ax (HE160)_Chain 3 / CH114** | |
|  | |

**For U-NII-3 band:**

**802.11a**

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | | | | Total PSD (dBm/300kHz) | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 144 (U-NII-3 Band) | 5720 | -6.13 | -5.96 | -6.08 | -6.20 | -0.07 | 2.15 | 30.00 | Pass |
| 149 | 5745 | 1.21 | 0.67 | 0.91 | 0.70 | 6.90 | 9.12 | 30.00 | Pass |
| 157 | 5785 | 1.01 | 0.85 | 0.67 | 0.52 | 6.79 | 9.01 | 30.00 | Pass |
| 165 | 5825 | 1.10 | 0.37 | 0.93 | 0.30 | 6.71 | 8.93 | 30.00 | Pass |

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = 3.18dBi < 6dBi, so the power density limit shall not be reduced.

**802.11ax (HE20)**

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | | | | Total PSD (dBm/300kHz) | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 144 (U-NII-3 Band) | 5720 | -5.80 | -5.55 | -6.50 | -6.27 | 0.01 | 2.23 | 30.00 | Pass |
| 149 | 5745 | 0.02 | 0.64 | 0.96 | 1.14 | 6.73 | 8.95 | 30.00 | Pass |
| 157 | 5785 | 0.21 | 0.58 | 0.86 | 0.76 | 6.63 | 8.85 | 30.00 | Pass |
| 165 | 5825 | 0.64 | 0.73 | 0.71 | 0.88 | 6.76 | 8.98 | 30.00 | Pass |

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = 3.18dBi < 6dBi, so the power density limit shall not be reduced.

**802.11ax (HE40)**

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | | | | Total PSD (dBm/300kHz) | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 142 (U-NII-3 Band) | 5710 | -8.81 | -9.40 | -8.65 | -8.99 | -2.93 | -0.71 | 30.00 | Pass |
| 151 | 5755 | -3.01 | -2.35 | -2.49 | -1.52 | 3.71 | 5.93 | 30.00 | Pass |
| 159 | 5795 | -3.00 | -2.67 | -2.40 | -1.71 | 3.60 | 5.82 | 30.00 | Pass |

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = 3.18dBi < 6dBi, so the power density limit shall not be reduced.

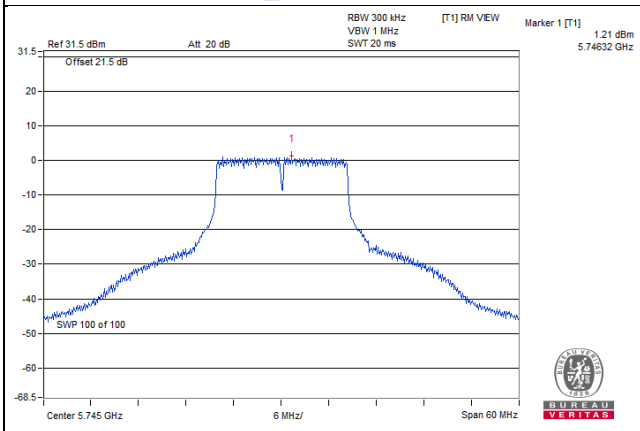
### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | | | | Total PSD (dBm/300kHz) | Total PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 138 (U-NII-3 Band) | 5690 | -11.80 | -12.71 | -12.33 | -11.68 | -6.09 | -3.87 | 30.00 | Pass |
| 155 | 5775 | -7.39 | -7.19 | -7.46 | -6.98 | -1.23 | 0.99 | 30.00 | Pass |

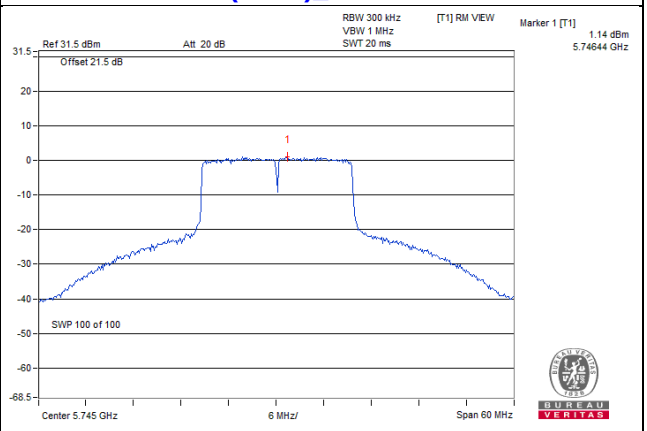
Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = 3.18dBi < 6dBi, so the power density limit shall not be reduced.

Spectrum Plot of Worst Value

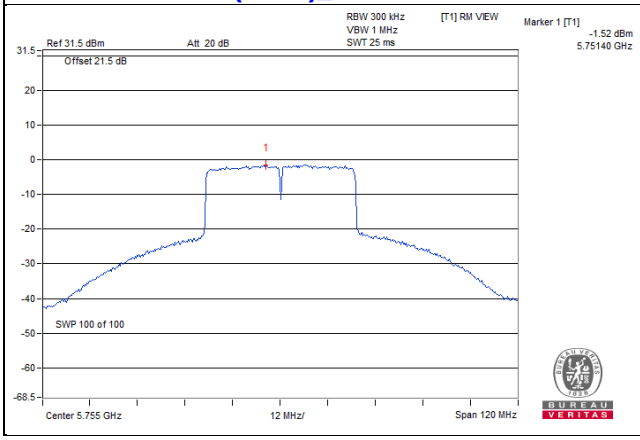
802.11a_Chain 0 / CH149



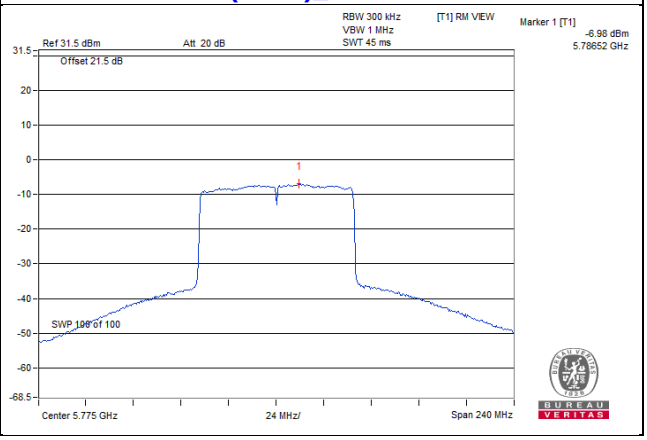

802.11ax (HE20)_Chain 3 / CH149




802.11ax (HE40)_Chain 3 / CH151




802.11ax (HE80)_Chain 3 / CH155

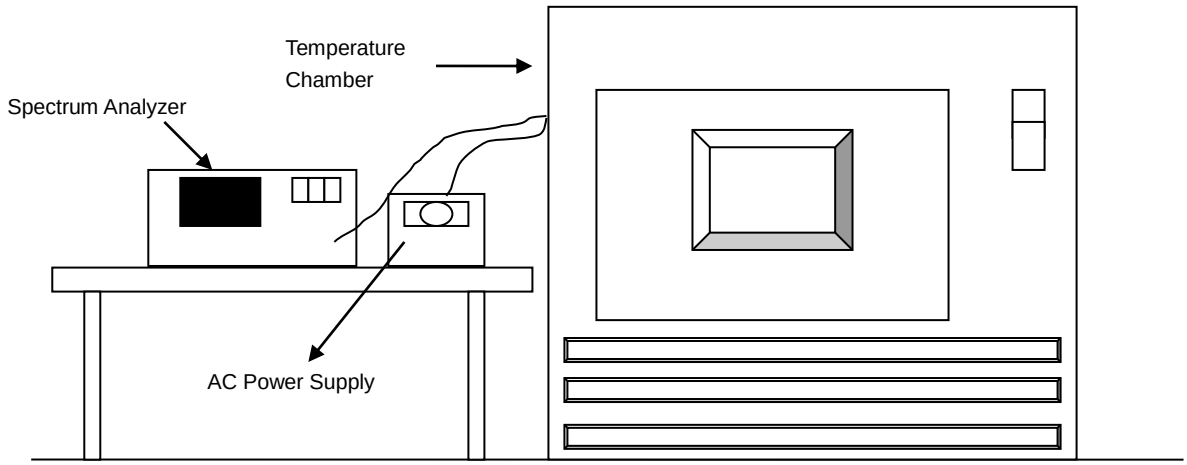


## 4.6 Frequency Stability Measurement

### 4.6.1 Limits of Frequency Stability Measurement

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

### 4.6.2 Test Setup




### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

c. Turn the EUT off and set the chamber to the highest temperature specified.

d. 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.

e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.

f. 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.

### 4.6.5 Deviation from Test Standard

No deviation.

### 4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 Test Results

| Frequency Stability Versus Temp. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Operating Frequency: 5180 MHz | | | | | | | | | |
| TEMP. (℃) | Power Supply (Vac) | 0 Minute | | 2 Minutes | | 5 Minutes | | 10 Minutes | |
| | | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail |
| 40 | 120 | 5180.0188 | Pass | 5180.0204 | Pass | 5180.0198 | Pass | 5180.0172 | Pass |
| 30 | 120 | 5179.9927 | Pass | 5179.9918 | Pass | 5179.9908 | Pass | 5179.9889 | Pass |
| 20 | 120 | 5179.9878 | Pass | 5179.9878 | Pass | 5179.9893 | Pass | 5179.9917 | Pass |
| 10 | 120 | 5180.0204 | Pass | 5180.0189 | Pass | 5180.0204 | Pass | 5180.0216 | Pass |
| 0 | 120 | 5180.0029 | Pass | 5180.0066 | Pass | 5180.0079 | Pass | 5180.0066 | Pass |

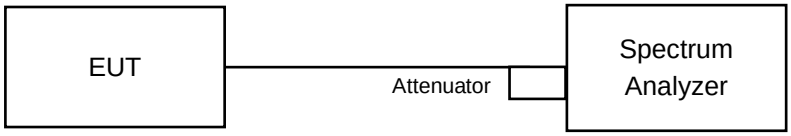
| Frequency Stability Versus Voltage | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Operating Frequency: 5180 MHz | | | | | | | | | |
| TEMP. (℃) | Power Supply (Vac) | 0 Minute | | 2 Minutes | | 5 Minutes | | 10 Minutes | |
| | | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail |
| 20 | 138 | 5179.9887 | Pass | 5179.9875 | Pass | 5179.9896 | Pass | 5179.9911 | Pass |
| | 120 | 5179.9878 | Pass | 5179.9878 | Pass | 5179.9893 | Pass | 5179.9917 | Pass |
| | 102 | 5179.9872 | Pass | 5179.9881 | Pass | 5179.9887 | Pass | 5179.9926 | Pass |

## 4.7 6dB Bandwidth Measurement

### 4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.7.2 Test Setup




### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

**MEASUREMENT PROCEDURE REF**

a. Set resolution bandwidth (RBW) = 100kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. 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

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 Test Results

**CDD Mode**

**802.11a**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 144 (U-NII-3 Band) | 5720 | 3.23 | 3.26 | 3.22 | 3.27 | 0.5 | Pass |
| 149 | 5745 | 16.39 | 16.4 | 16.39 | 16.41 | 0.5 | Pass |
| 157 | 5785 | 16.41 | 16.41 | 16.41 | 16.4 | 0.5 | Pass |
| 165 | 5825 | 16.41 | 16.39 | 16.4 | 16.4 | 0.5 | Pass |

**802.11ax (HE20)**

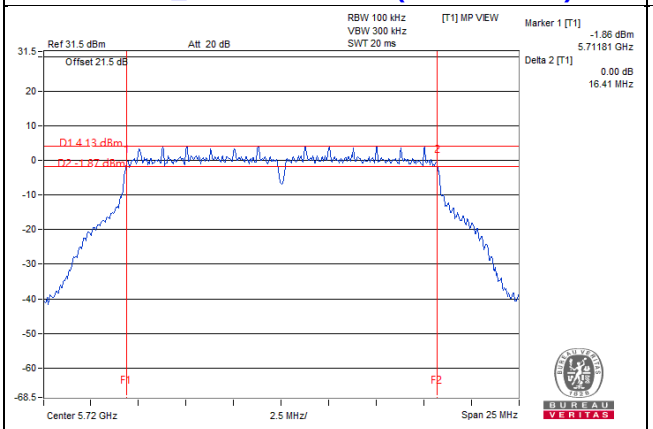
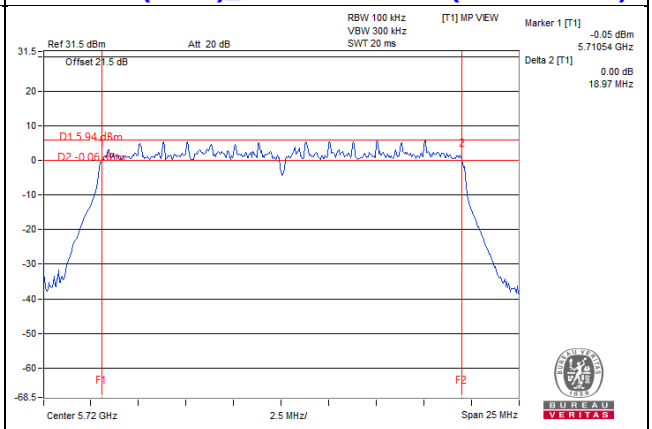
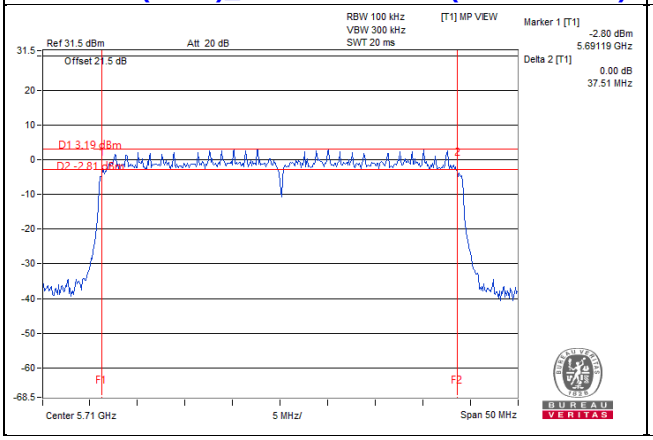
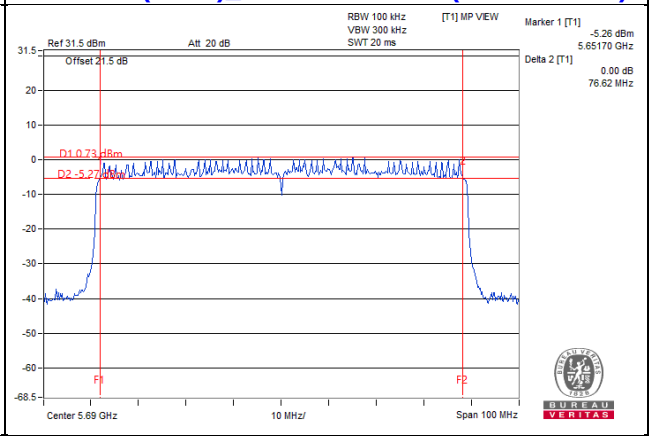
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 144 (U-NII-3 Band) | 5720 | 4.55 | 4.51 | 4.58 | 4.56 | 0.5 | Pass |
| 149 | 5745 | 18.95 | 18.97 | 18.99 | 19.01 | 0.5 | Pass |
| 157 | 5785 | 18.9 | 18.78 | 18.91 | 19 | 0.5 | Pass |
| 165 | 5825 | 18.91 | 18.95 | 18.96 | 19 | 0.5 | Pass |

**802.11ax (HE40)**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 142 (U-NII-3 Band) | 5710 | 3.7 | 3.84 | 3.94 | 4.02 | 0.5 | Pass |
| 151 | 5755 | 37.54 | 37.72 | 37.63 | 37.8 | 0.5 | Pass |
| 159 | 5795 | 37.54 | 37.76 | 36.92 | 37.75 | 0.5 | Pass |

**802.11ax (HE80)**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 138 (U-NII-3 Band) | 5690 | 3.32 | 3.86 | 3.69 | 3.97 | 0.5 | Pass |
| 155 | 5775 | 76.44 | 77.39 | 77.6 | 77.03 | 0.5 | Pass |

| Spectrum Plot of Worst Value | |
|---|---|
| **802.11a_Chain 2 / CH144 (U-NII-3 Band)** | **802.11ax (HE20)_Chain 1 / CH144 (U-NII-3 Band)** |
|  |  |
| **802.11ax (HE40)_Chain 0 / CH142 (U-NII-3 Band)** | **802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)** |
|  |  |

Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

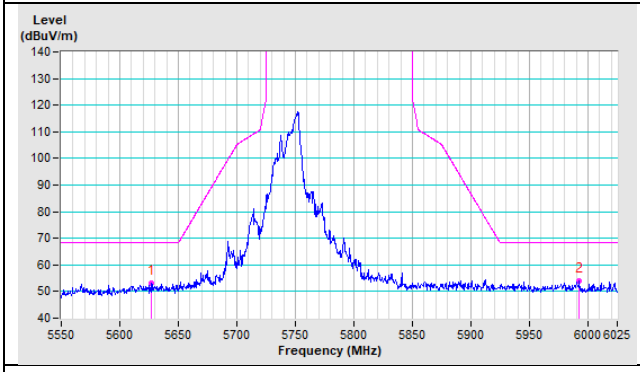
## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

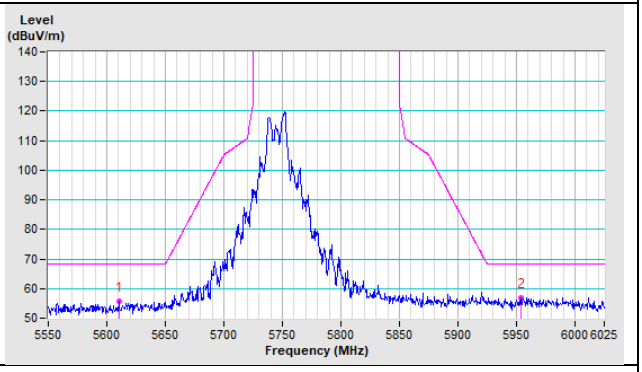
## Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

### 802.11a CH 149：5745 MHz

**Horizontal**

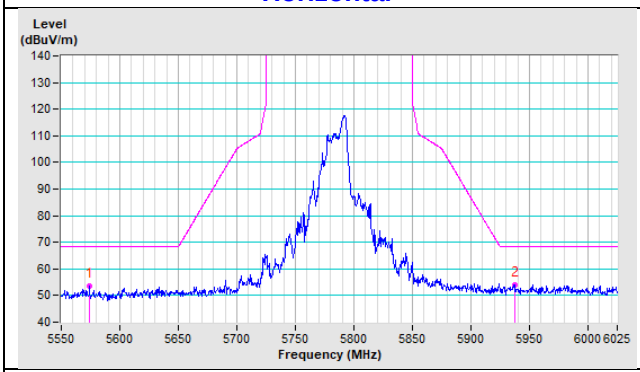



**Vertical**

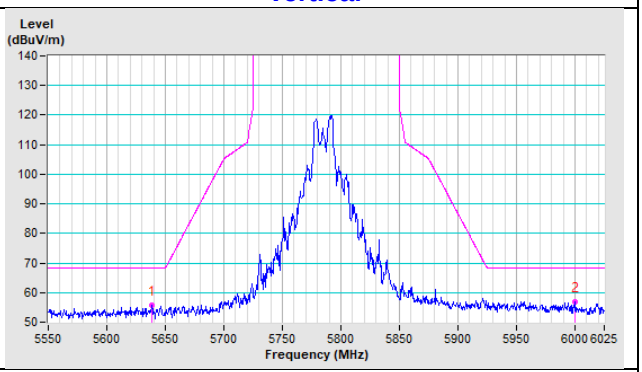



### 802.11a CH 157：5785 MHz

**Horizontal**

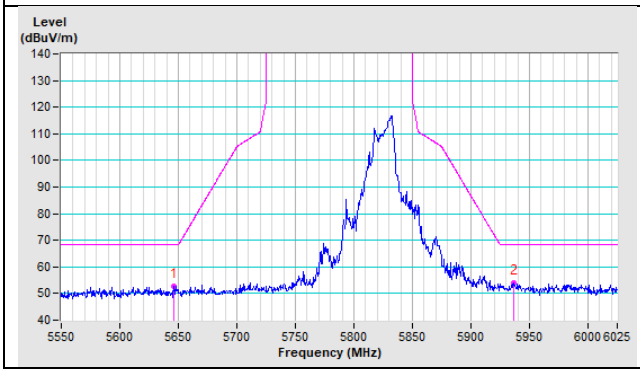



**Vertical**

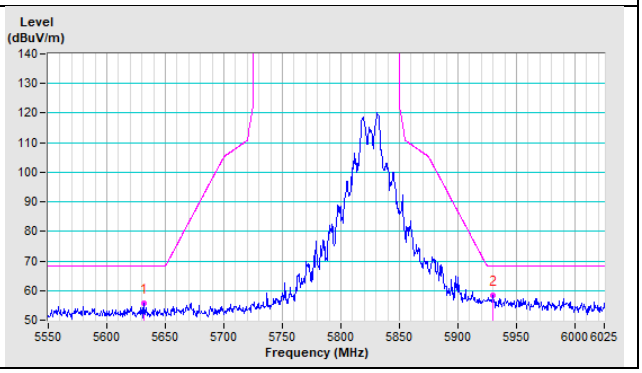



### 802.11a CH 165：5825 MHz

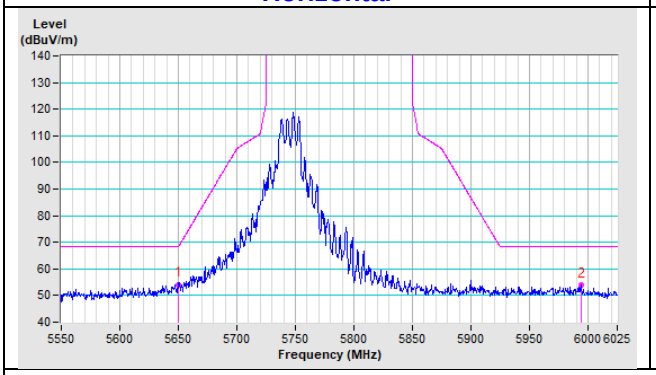
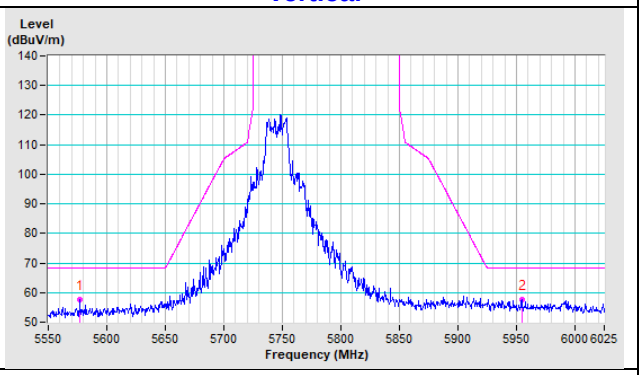
**Horizontal**




**Vertical**

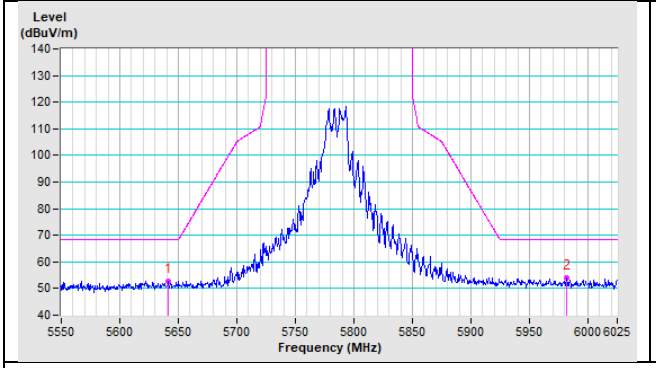
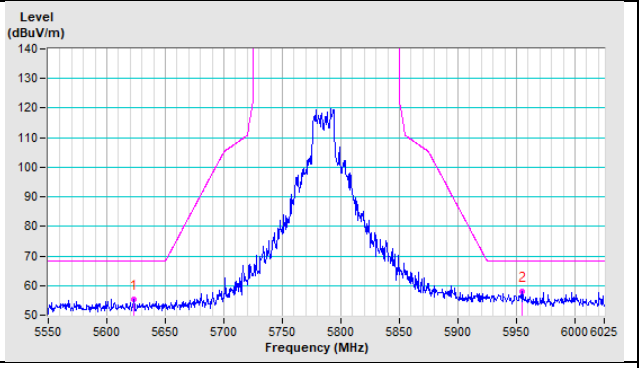


## 802.11ax (HE20) CH 149：5745 MHz

| Horizontal | Vertical |
| --- | --- |
|  |  |

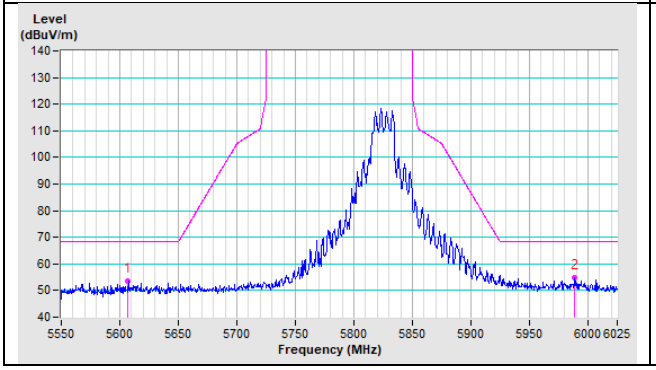
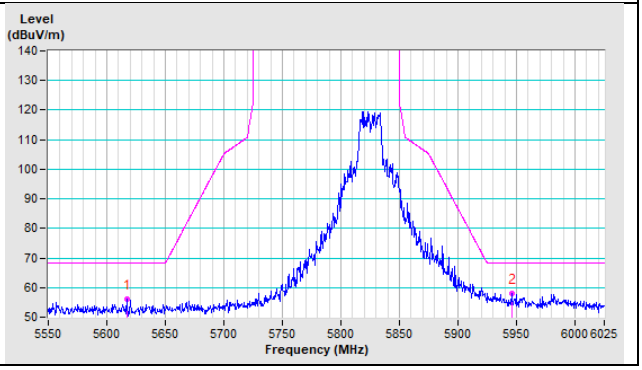


## 802.11ax (HE20) CH 157：5785 MHz

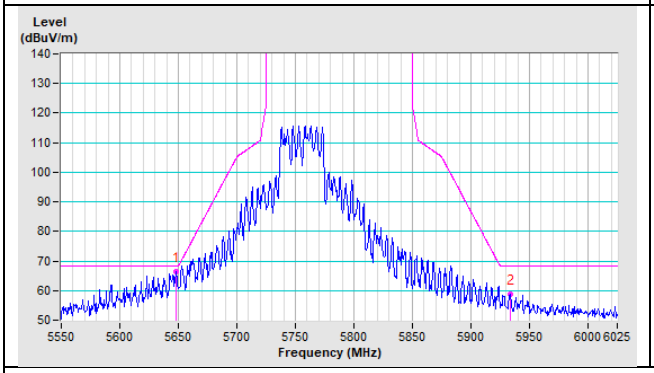
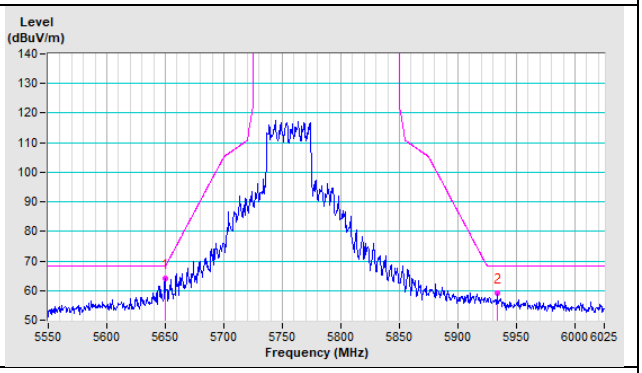
| Horizontal | Vertical |
| --- | --- |
|  |  |



## 802.11ax (HE20) CH 165：5825 MHz

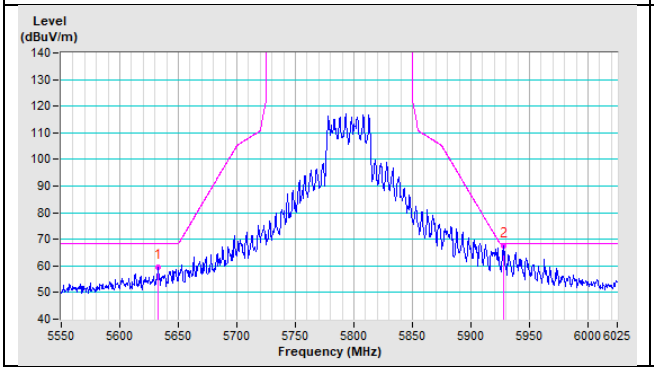
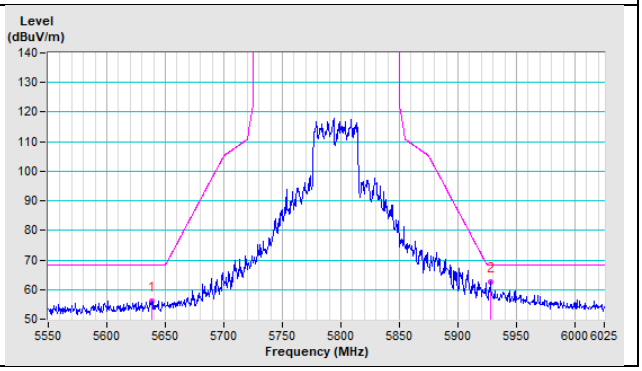
| Horizontal | Vertical |
| --- | --- |
|  |  |

## 802.11ax (HE40) CH 151：5755 MHz

| Horizontal | Vertical |
| --- | --- |
|  |  |

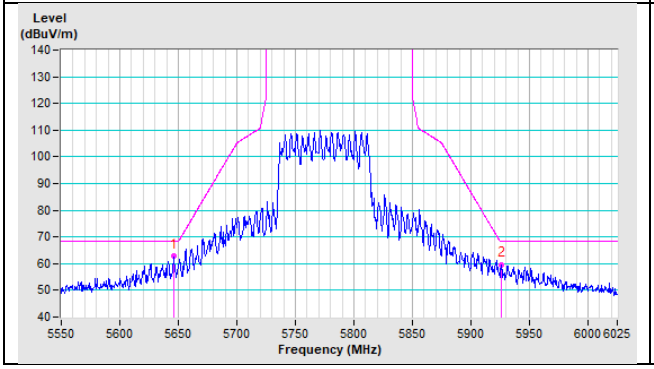
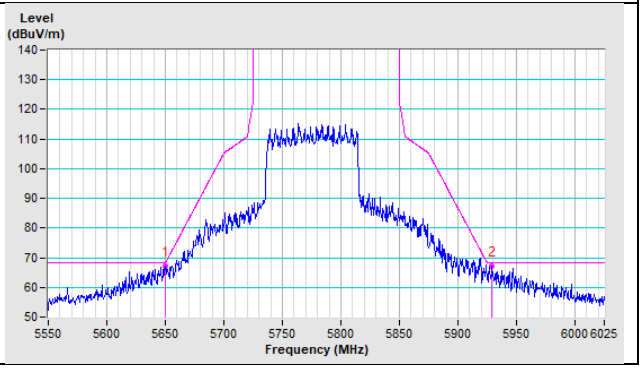


## 802.11ax (HE40) CH 159：5795 MHz

| Horizontal | Vertical |
| --- | --- |
|  |  |



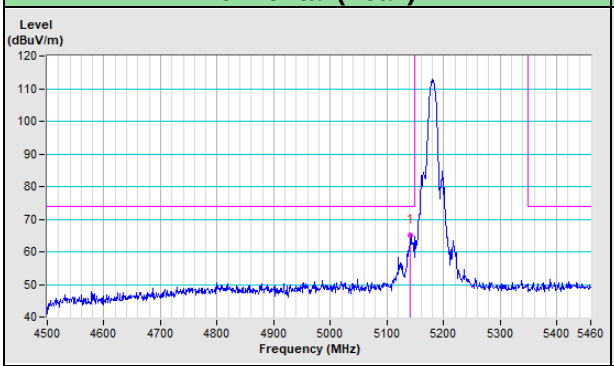
## 802.11ax (HE80) CH 155：5775 MHz

| Horizontal | Vertical |
| --- | --- |
|  |  |

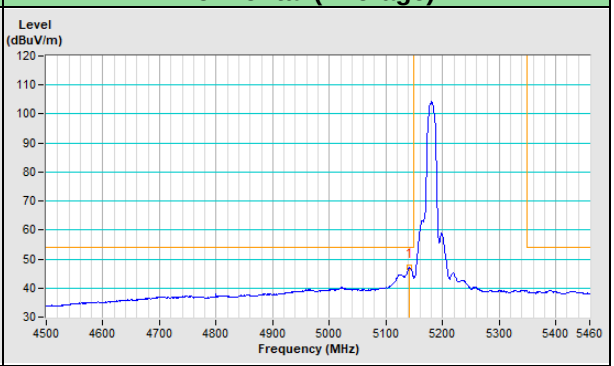
## Annex B - Band-Edge Measurement (For U-NII-1, U-NII-2A, U-NII-2C band)

### 802.11a Channel 36

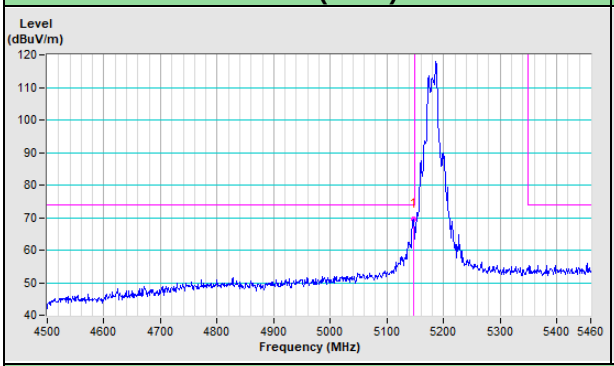
#### Horizontal (Peak)



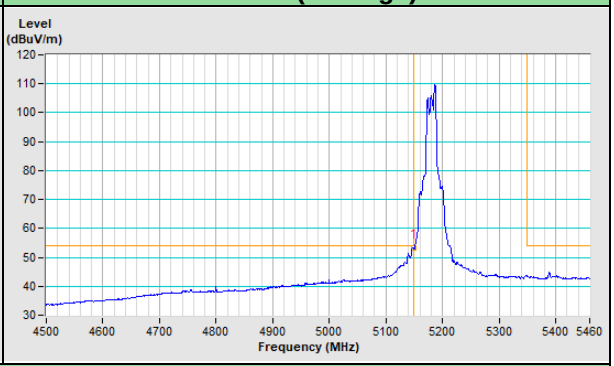

#### Horizontal (Average)




#### Vertical (Peak)

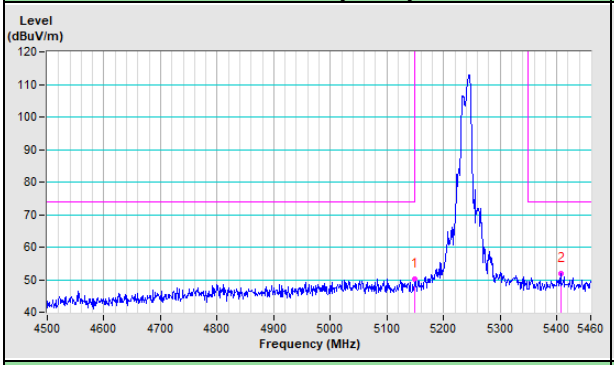



#### Vertical (Average)

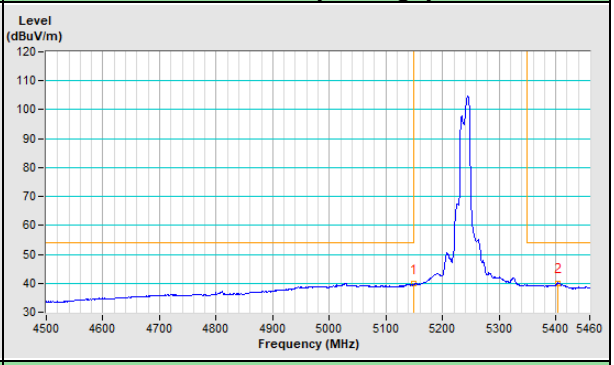



### 802.11a Channel 48

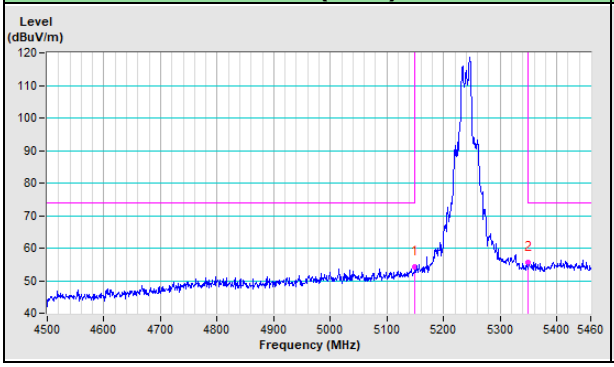
#### Horizontal (Peak)



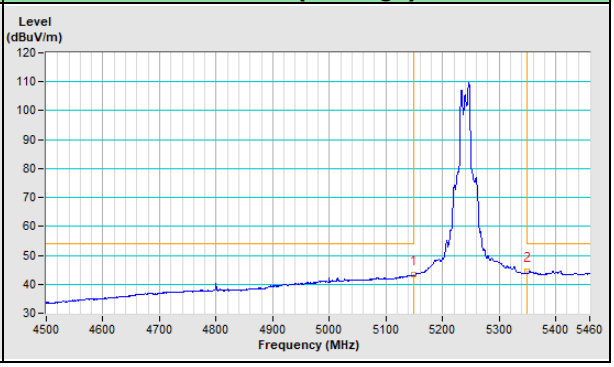

#### Horizontal (Average)




#### Vertical (Peak)

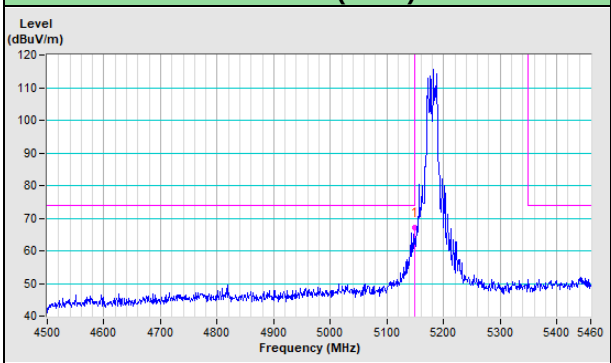



#### Vertical (Average)

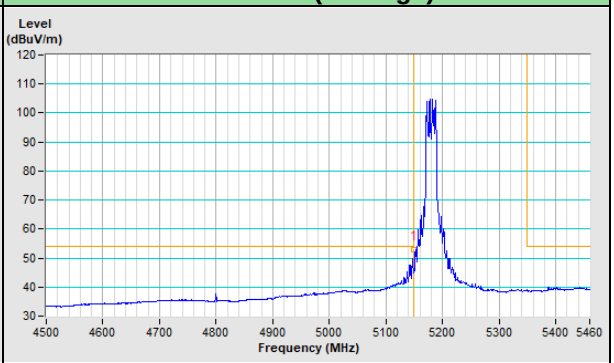


## 802.11ax (HE20) Channel 36

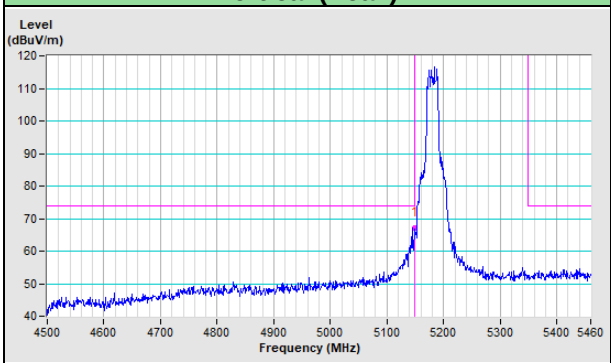
### Horizontal (Peak)



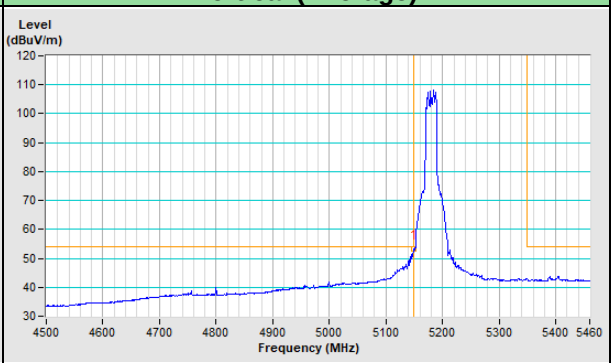

### Horizontal (Average)




### Vertical (Peak)

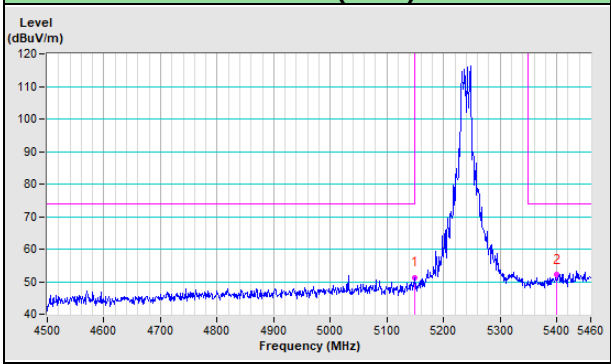



### Vertical (Average)

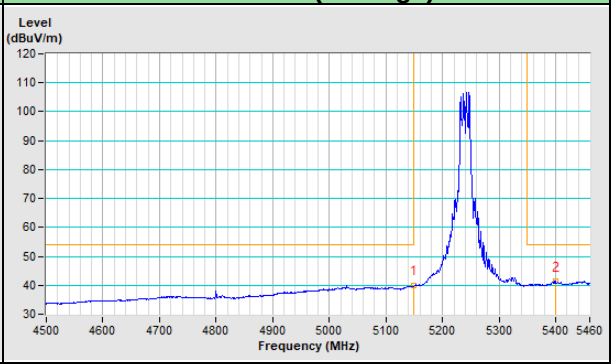



## 802.11ax (HE20) Channel 48

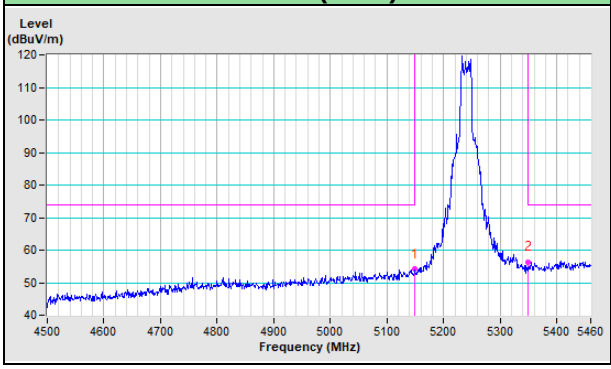
### Horizontal (Peak)



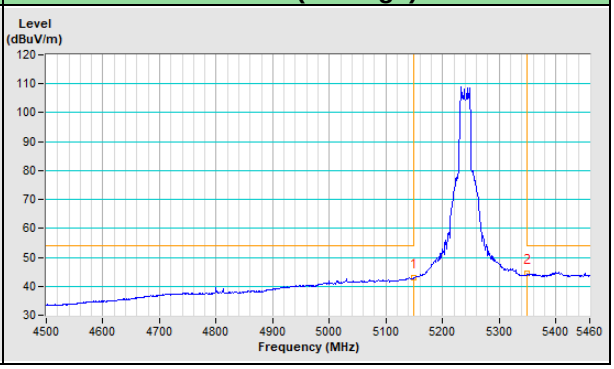

### Horizontal (Average)




### Vertical (Peak)

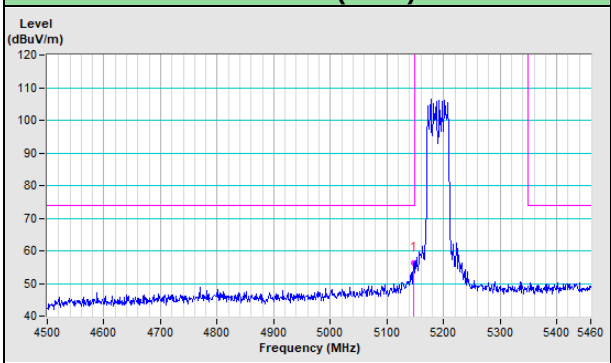



### Vertical (Average)

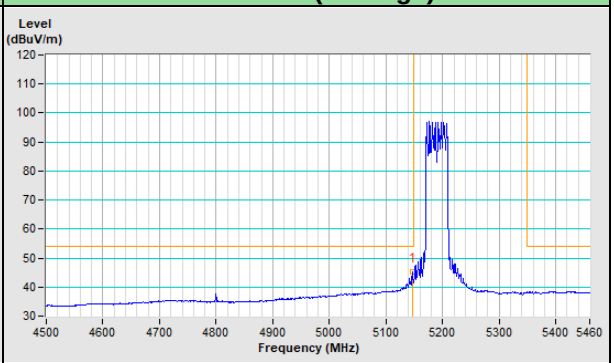


## 802.11ax (HE40) Channel 38

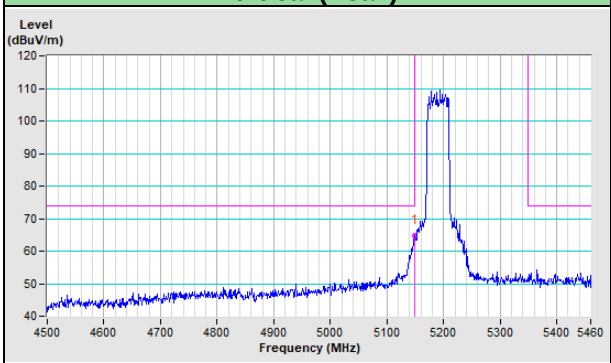
### Horizontal (Peak)



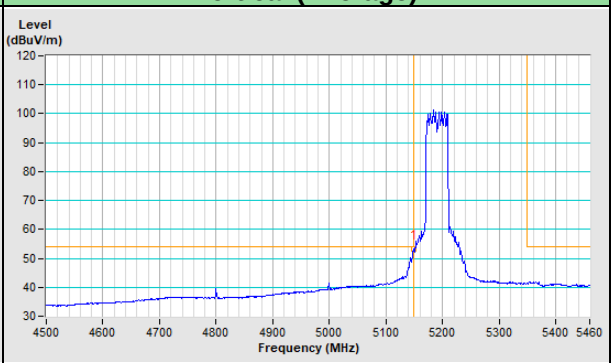

### Horizontal (Average)




### Vertical (Peak)

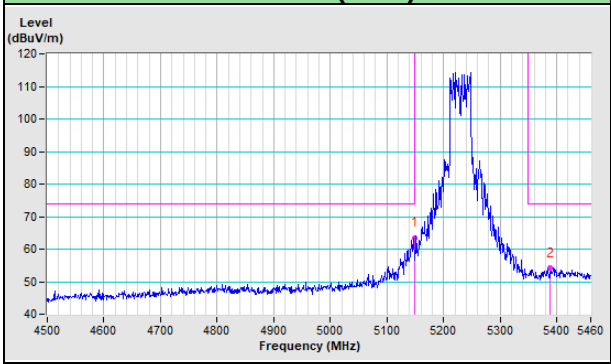



### Vertical (Average)

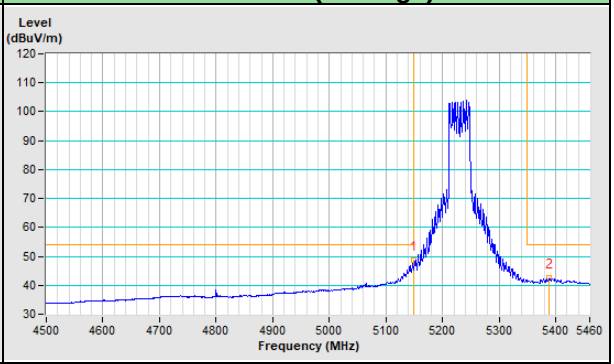



## 802.11ax (HE40) Channel 46

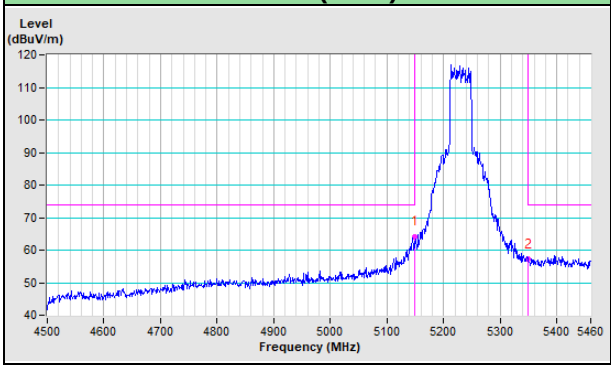
### Horizontal (Peak)



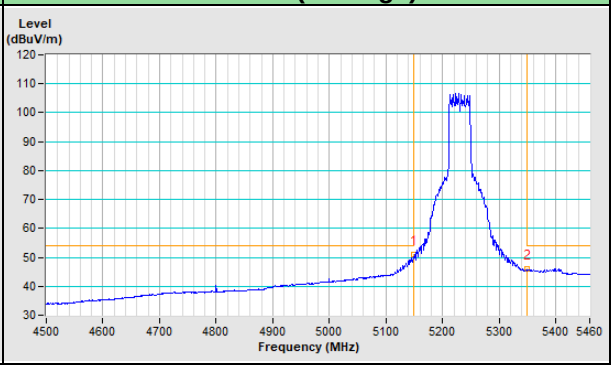

### Horizontal (Average)

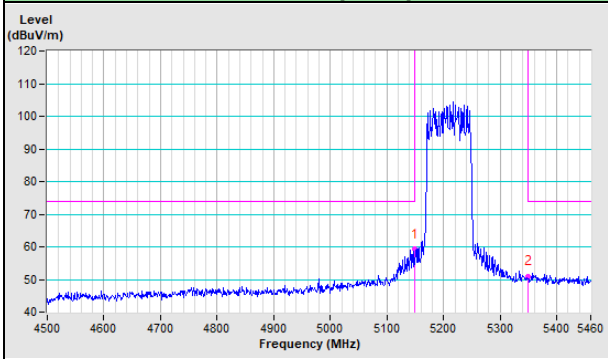
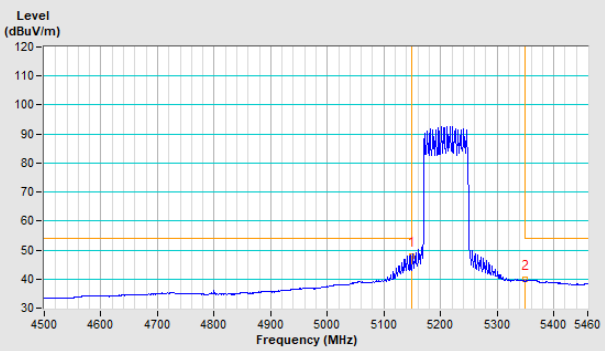
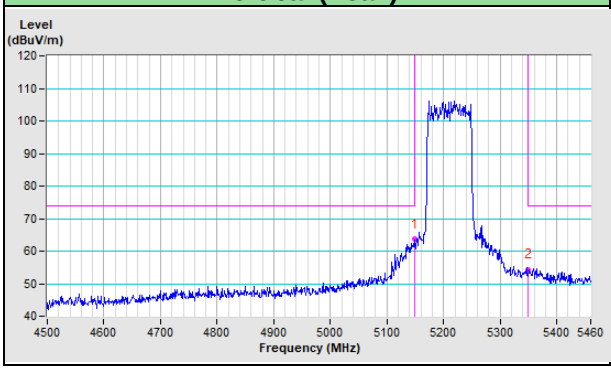
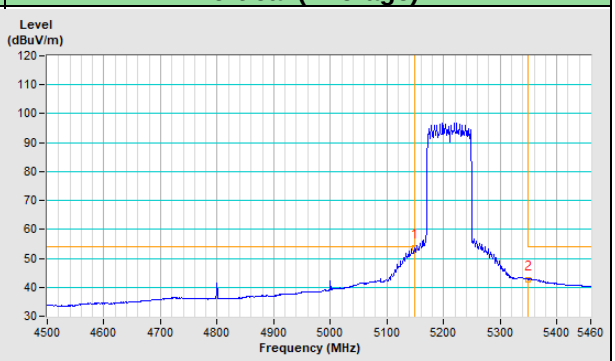



### Vertical (Peak)




### Vertical (Average)



| 802.11ax (HE80) Channel 42 | |
|---|---|
| Horizontal (Peak) | Horizontal (Average) |
|  |  |
| Vertical (Peak) | Vertical (Average) |
|  |  |

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

**--- END ---**