

# TEST REPORT

## CERTIFICATE OF CONFORMITY

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

**Report No.:** RFBAYG-WTW-P25040286-3

**FCC ID:** A94443537

**Product:** Wireless subwoofer

**Brand:** BOSE

**Model No.:** 443537

**Received Date:** 2025/4/15

**Test Date:** 2025/5/16 ~ 2025/10/2

**Issued Date:** 2025/10/2

**Applicant:** Bose Corporation

**Address:** 100 The Mountain Road Framingham Massachusetts 01701-9168 United States

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location(1):** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location(2):** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

**Test Location(3):** No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

**FCC Registration / Test Location:**

**Designation Number:** 198487 / TW2021 for Test Location(1)  
788550 / TW0003 for Test Location(2)  
281270 / TW0032 for Test Location(3)

**Approved by:** Jeremy Lin, **Date:** 2025/10/2  
Jeremy Lin / Project Engineer

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Prepared by : Annie Chang / Senior Specialist



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## Release Control Record

| Issue No.              | Description       | Date Issued |
|------------------------|-------------------|-------------|
| RFBAYG-WTW-P25040286-3 | Original release. | 2025/10/2   |

## 1 Certificate

**Product:** Wireless subwoofer

**Brand:** BOSE

**Test Model:** 443537

**Sample Status:** Engineering sample

**Applicant:** Bose Corporation

**Test Date:** 2025/5/16 ~ 2025/10/2

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

**Measurement** ANSI C63.10-2020

**procedure:** KDB 987594 D02 U-NII 6 GHz EMC Measurement v03

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

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

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) |                                |        |                                                    |
|------------------------------------------------|--------------------------------|--------|----------------------------------------------------|
| Clause                                         | Test Item                      | Result | Remark                                             |
| 15.407(a)(8)                                   | Maximum RF Output Power        | Pass   | Meet the requirement of limit.                     |
| 15.407(a)(8)                                   | Maximum Power Spectral Density | Pass   | Meet the requirement of limit.                     |
| 15.407(a)(11)                                  | Emission Bandwidth             | Pass   | Meet the requirement of limit.                     |
| ---                                            | Occupied Bandwidth             | -      | Reference only.                                    |
| 15.407(b)(9)                                   | AC Power Conducted Emissions   | Pass   | Minimum passing margin is -14.13 dB at 0.15400 MHz |
| 15.407(b)(9)                                   | Unwanted Emissions below 1 GHz | Pass   | Minimum passing margin is -7.9 dB at 31.12 MHz     |
| 15.407(b)(6)<br>15.407(b)(10)                  | Unwanted Emissions above 1 GHz | Pass   | Minimum passing margin is -0.3 dB at 7125.00 MHz   |
| 15.407(b)(7)                                   | In-Band Emission Mask          | Pass   | Meet the requirement of limit.                     |
| 15.407(d)(6)                                   | Contention-based Protocol      | Pass   | Meet the requirement of limit.                     |
| 15.203                                         | Antenna Requirement            | Pass   | No antenna connector is used.                      |

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

### 2.1 Measurement Uncertainty

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

| Measurement                    | Specification   | Expanded Uncertainty (k=2)<br>(±) |
|--------------------------------|-----------------|-----------------------------------|
| Maximum RF Output Power        | -               | 1.1 dB                            |
| Maximum Power Spectral Density | -               | 1.3 dB                            |
| Occupied Bandwidth             | -               | 960 Hz                            |
| AC Power Conducted Emissions   | 9 kHz ~ 30 MHz  | 2.9 dB                            |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz  | 2.55 dB                           |
|                                | 30 MHz ~ 1 GHz  | 5.77 dB                           |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz  | 1.76 dB                           |
|                                | 18 GHz ~ 40 GHz | 1.77 dB                           |

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

### 2.2 Supplementary Information

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

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | Wireless subwoofer                                                                                                                                                                                                     |
| Brand                 | BOSE                                                                                                                                                                                                                   |
| Test Model            | 443537                                                                                                                                                                                                                 |
| Status of EUT         | Engineering sample                                                                                                                                                                                                     |
| Power Supply Rating   | 100-240Vac, 50/60Hz, 180W                                                                                                                                                                                              |
| Modulation Type       | 64QAM, 16QAM, QPSK, BPSK for OFDM<br>1024QAM for OFDMA in 11ax mode                                                                                                                                                    |
| Modulation Technology | OFDM, OFDMA                                                                                                                                                                                                            |
| Transfer Rate         | Up to 600.4 Mbps                                                                                                                                                                                                       |
| Operating Frequency   | 5.955 GHz ~ 6.415 GHz, 6.435 GHz ~ 6.525 GHz, 6.535 GHz ~ 6.865 GHz,<br>6.875 GHz ~ 7.115 GHz                                                                                                                          |
| Number of Channel     | 802.11a, 802.11ax (HE20):59<br>802.11ax (HE40):29<br>802.11ax (HE80):14                                                                                                                                                |
| Output Power          | 5.955 GHz ~ 6.415 GHz: EIRP: 94.406 mW (19.75 dBm)<br>6.435 GHz ~ 6.525 GHz: EIRP: 110.662 mW (20.44 dBm)<br>6.535 GHz ~ 6.865 GHz: EIRP: 112.98 mW (20.53 dBm)<br>6.875 GHz ~ 7.115 GHz: EIRP: 108.392 mW (20.35 dBm) |
| Equipment Class       | 6XD: 15E 6 GHz Low-power Indoor client                                                                                                                                                                                 |

Note:

1. The EUT uses following accessories.

| Item           | Specification                   |
|----------------|---------------------------------|
| AC power cable | Non-shielded without core, 1.5m |

2. There are WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
3. WLAN 2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz technologies cannot transmit at same time.
4. 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.

#### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Frequency range (GHz) | Max. Gain (dBi) | Min. Gain (dBi) | Antenna Type | Connector Type |
|-----------------------|-----------------|-----------------|--------------|----------------|
| 5.925~7.125           | 3.37            | 2.11            | Monopole     | ipex(MHF)      |

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

2. The EUT incorporates a SISO function:

| 6 GHz Band      |                       |               |
|-----------------|-----------------------|---------------|
| Modulation Mode | TX & RX Configuration |               |
| 802.11a         | 1Tx Diversity         | 1Rx diversity |
| 802.11ax (HE20) | 1Tx Diversity         | 1Rx diversity |
| 802.11ax (HE40) | 1Tx Diversity         | 1Rx diversity |
| 802.11ax (HE80) | 1Tx Diversity         | 1Rx diversity |

Note: The EUT device modulation technique OFDMA does not support partial RUs (resource units) and channel puncturing/bandwidth reduction mechanisms.

### 3.3 Channel List

#### U-NII-5:

24 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1       | 5955 MHz  | 5       | 5975 MHz  | 9       | 5995 MHz  | 13      | 6015 MHz  |
| 17      | 6035 MHz  | 21      | 6055 MHz  | 25      | 6075 MHz  | 29      | 6095 MHz  |
| 33      | 6115 MHz  | 37      | 6135 MHz  | 41      | 6155 MHz  | 45      | 6175 MHz  |
| 49      | 6195 MHz  | 53      | 6215 MHz  | 57      | 6235 MHz  | 61      | 6255 MHz  |
| 65      | 6275 MHz  | 69      | 6295 MHz  | 73      | 6315 MHz  | 77      | 6335 MHz  |
| 81      | 6355 MHz  | 85      | 6375 MHz  | 89      | 6395 MHz  | 93      | 6415 MHz  |

12 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 3       | 5965 MHz  | 11      | 6005 MHz  | 19      | 6045 MHz  | 27      | 6085 MHz  |
| 35      | 6125 MHz  | 43      | 6165 MHz  | 51      | 6205 MHz  | 59      | 6245 MHz  |
| 67      | 6285 MHz  | 75      | 6325 MHz  | 83      | 6365 MHz  | 91      | 6405 MHz  |

6 channels are provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 7       | 5985 MHz  | 23      | 6065 MHz  | 39      | 6145 MHz  | 55      | 6225 MHz  |
| 71      | 6305 MHz  | 87      | 6385 MHz  |         |           |         |           |

#### U-NII-6:

5 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 97      | 6435 MHz  | 101     | 6455 MHz  | 105     | 6475 MHz  | 109     | 6495 MHz  |
| 113     | 6515 MHz  |         |           |         |           |         |           |

3 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 99      | 6445 MHz  | 107     | 6485 MHz  | *115    | 6525 MHz  |

1 channel is provided for 802.11ax (HE80):

| Channel | Frequency |
|---------|-----------|
| 103     | 6465 MHz  |

## U-NII-7:

17 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 117     | 6535 MHz  | 121     | 6555 MHz  | 125     | 6575 MHz  | 129     | 6595 MHz  |
| 133     | 6615 MHz  | 137     | 6635 MHz  | 141     | 6655 MHz  | 145     | 6675 MHz  |
| 149     | 6695 MHz  | 153     | 6715 MHz  | 157     | 6735 MHz  | 161     | 6755 MHz  |
| 165     | 6775 MHz  | 169     | 6795 MHz  | 173     | 6815 MHz  | 177     | 6835 MHz  |
| 181     | 6855 MHz  |         |           |         |           |         |           |

8 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 123     | 6565 MHz  | 131     | 6605 MHz  | 139     | 6645 MHz  | 147     | 6685 MHz  |
| 155     | 6725 MHz  | 163     | 6765 MHz  | 171     | 6805 MHz  | 179     | 6845 MHz  |

5 channels are provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| *119    | 6545 MHz  | 135     | 6625 MHz  | 151     | 6705 MHz  | 167     | 6785 MHz  |
| *183    | 6865 MHz  |         |           |         |           |         |           |

## U-NII-8:

13 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| *185    | 6875 MHz  | 189     | 6895 MHz  | 193     | 6915 MHz  | 197     | 6935 MHz  |
| 201     | 6955 MHz  | 205     | 6975 MHz  | 209     | 6995 MHz  | 213     | 7015 MHz  |
| 217     | 7035 MHz  | 221     | 7055 MHz  | 225     | 7075 MHz  | 229     | 7095 MHz  |
| 233     | 7115 MHz  |         |           |         |           |         |           |

6 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| *187    | 6885 MHz  | 195     | 6925 MHz  | 203     | 6965 MHz  | 211     | 7005 MHz  |
| 219     | 7045 MHz  | 227     | 7085 MHz  |         |           |         |           |

2 channels are provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 199     | 6945 MHz  | 215     | 7025 MHz  |

Note: \* mean these are straddle channels.

### 3.4 Test Mode Applicability and Tested Channel Detail

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

| Test Item                      | EUT Configure Mode | Mode            | Tested Channel                                        | Modulation | Data Rate Parameter |
|--------------------------------|--------------------|-----------------|-------------------------------------------------------|------------|---------------------|
| Maximum RF Output Power        | A,B                | 802.11a         | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | 6Mb/s               |
|                                |                    | 802.11ax (HE20) | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE40) | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE80) | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
| Maximum Power Spectral Density | A,B                | 802.11a         | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | 6Mb/s               |
|                                |                    | 802.11ax (HE20) | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE40) | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE80) | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
| Emission Bandwidth             | A,B                | 802.11a         | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | 6Mb/s               |
|                                |                    | 802.11ax (HE20) | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE40) | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE80) | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
| In-Band Emission Mask          | A,B                | 802.11a         | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | 6Mb/s               |
|                                |                    | 802.11ax (HE20) | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE40) | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE80) | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
| Occupied Bandwidth             | A,B                | 802.11a         | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | 6Mb/s               |
|                                |                    | 802.11ax (HE20) | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | MCS0                |

| Test Item                      | EUT Configure Mode | Mode                             | Tested Channel                                        | Modulation | Data Rate Parameter |
|--------------------------------|--------------------|----------------------------------|-------------------------------------------------------|------------|---------------------|
|                                |                    | 802.11ax (HE40)                  | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE80)                  | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
| Contention-based Protocol      | A                  | 802.11ax (HE20)                  | 45, 105, 149, 205                                     | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE80)                  | 39, 103, 151, 199                                     | BPSK       | MCS0                |
| AC Power Conducted Emissions   | A                  | 802.11ax (HE80)                  | 183                                                   | BPSK       | MCS0                |
|                                | B                  | 802.11ax (HE80)                  | 151                                                   | BPSK       | MCS0                |
| Unwanted Emissions below 1 GHz | A                  | 802.11ax (HE80)                  | 183                                                   | BPSK       | MCS0                |
|                                | B                  | 802.11ax (HE80)                  | 151                                                   | BPSK       | MCS0                |
| Unwanted Emissions above 1 GHz | A,B                | 802.11a                          | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | 6Mb/s               |
|                                |                    | 802.11ax (HE20)                  | 1, 45, 93, 97, 105, 113, 117, 149, 181, 185, 209, 233 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE40)                  | 3, 43, 91, 99, 107, 115, 123, 155, 179, 187, 211, 227 | BPSK       | MCS0                |
|                                |                    | 802.11ax (HE80)                  | 7, 39, 87, 103, 119, 151, 183, 199, 215               | BPSK       | MCS0                |
| EUT Configure Mode:            | A                  | Test Conditions Chain0 for J1701 |                                                       |            |                     |
|                                | B                  | Test Conditions Chain1 for J1702 |                                                       |            |                     |

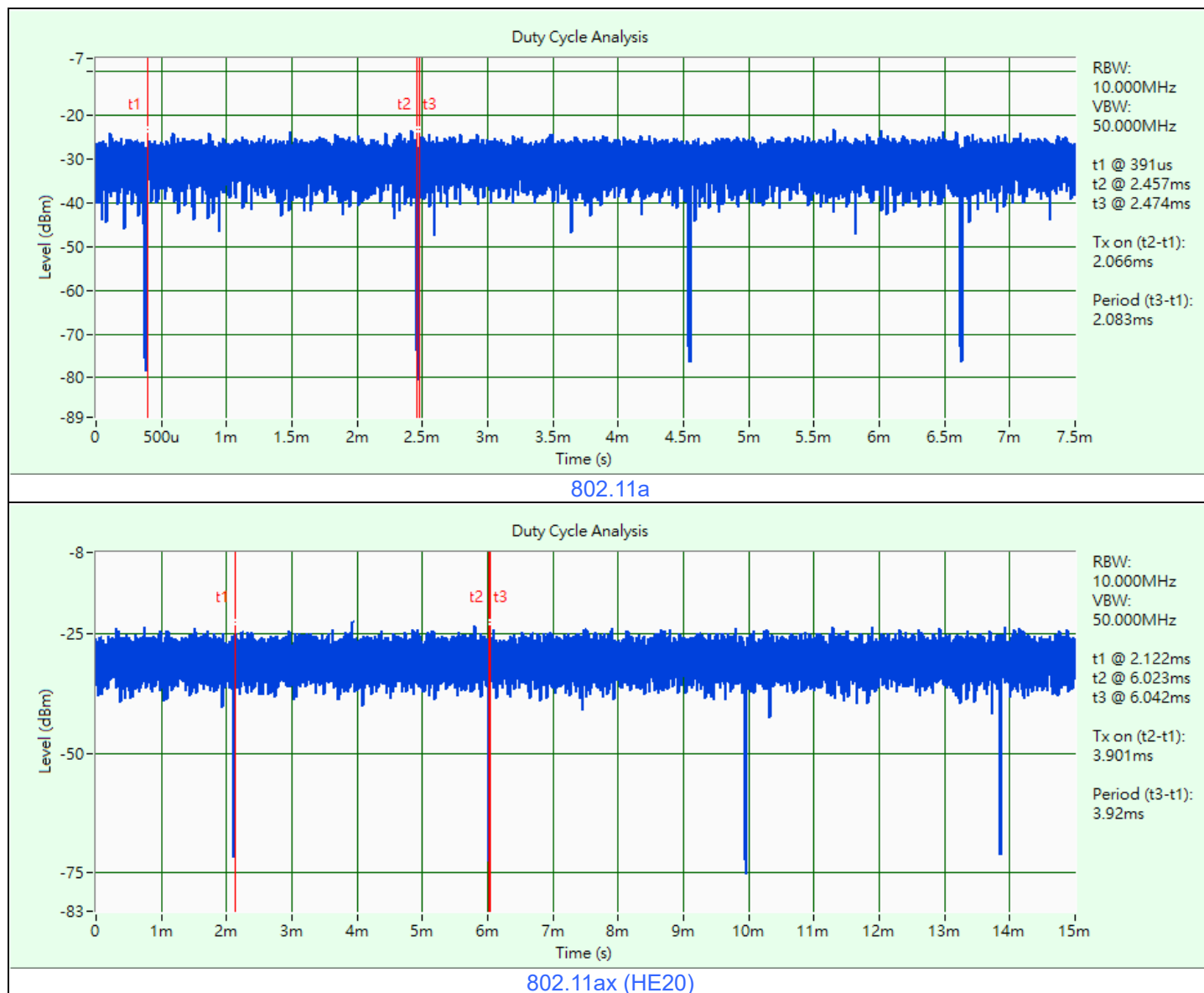
### 3.5 Duty Cycle of Test Signal

**802.11a:** Duty cycle = 2.066 ms / 2.083 ms x 100% = 99.2%

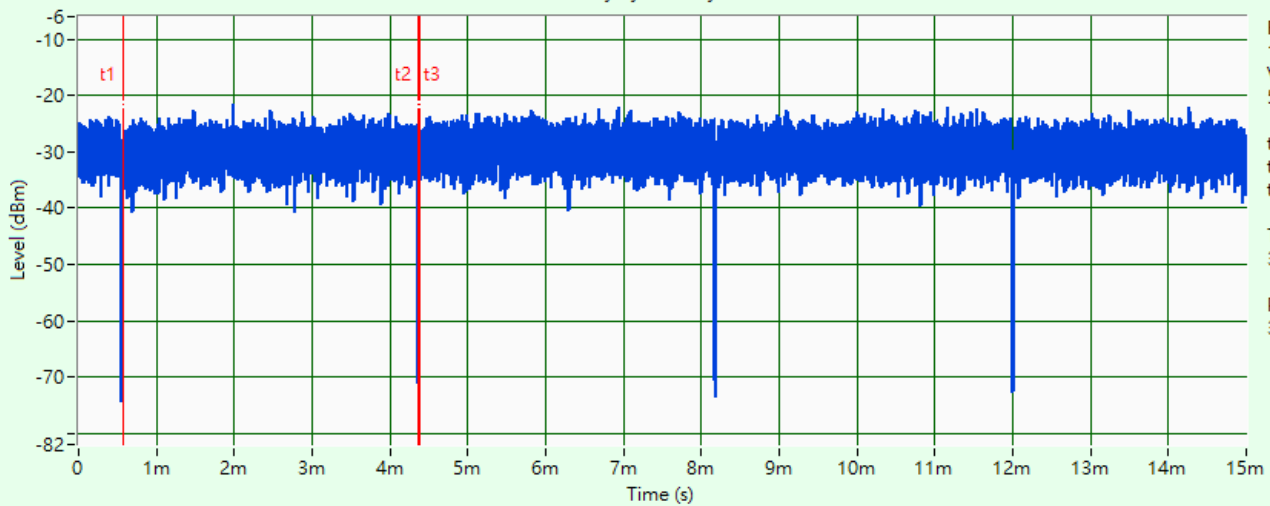
**802.11ax (HE20):** Duty cycle = 3.901 ms / 3.92 ms x 100% = 99.5%

**802.11ax (HE40):** Duty cycle = 3.796 ms / 3.814 ms x 100% = 99.5%

**802.11ax (HE80):** Duty cycle = 1.844 ms / 1.862 ms x 100% = 99.0%

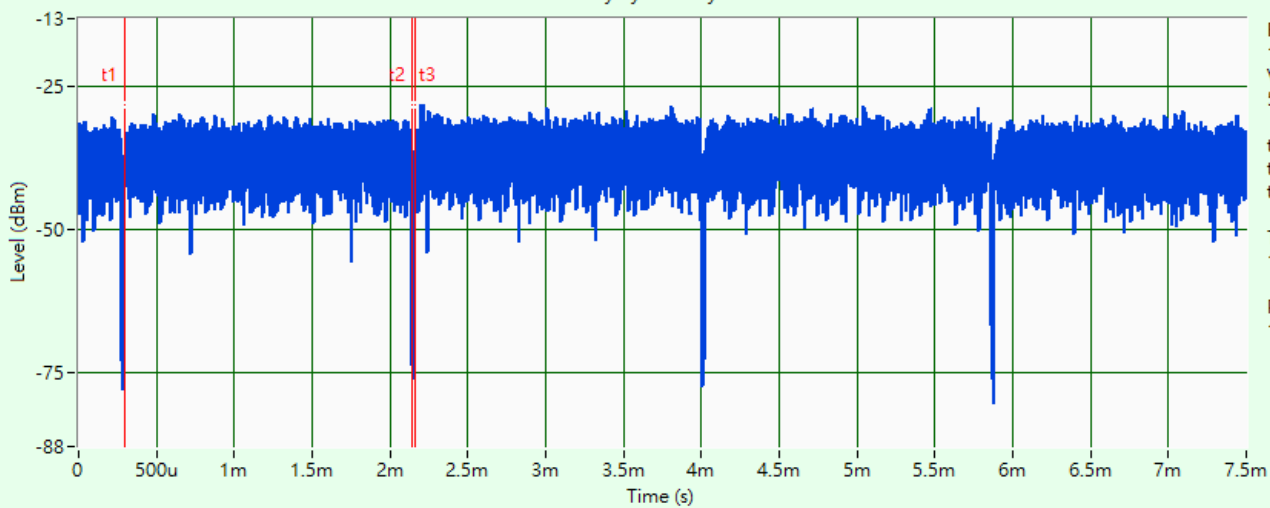


### Duty Cycle Analysis



### 802.11ax (HE40)

### Duty Cycle Analysis



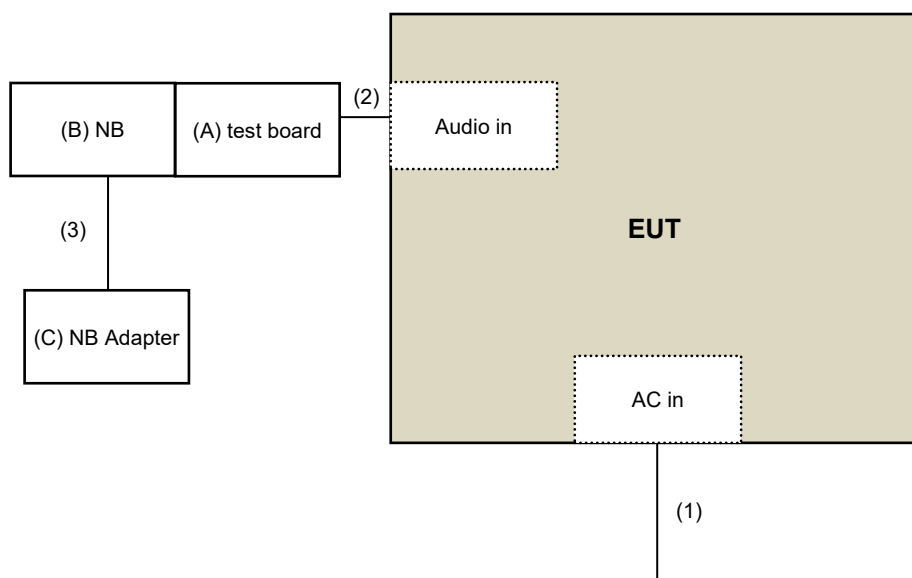
### 802.11ax (HE80)

### 3.6 Test Program Used and Operation Descriptions

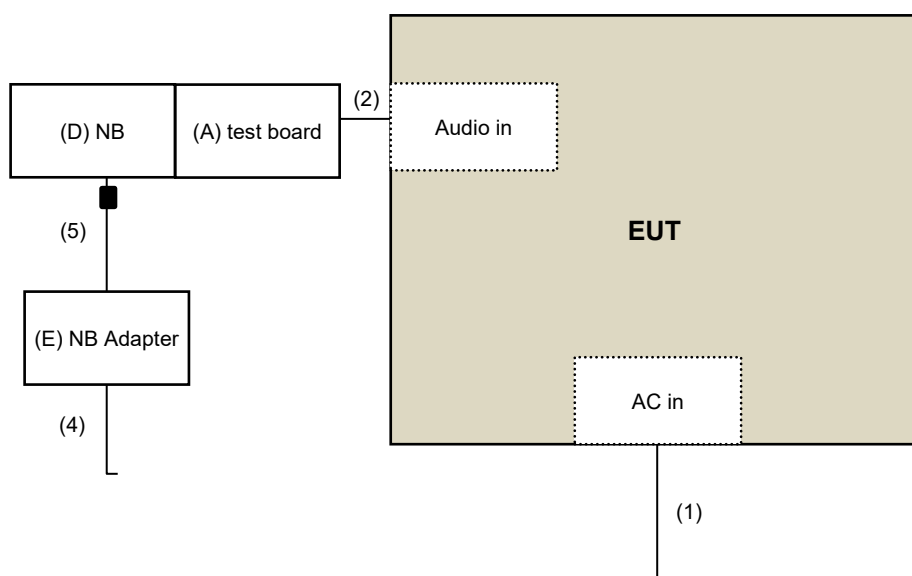
Controlling software (Tera Term V4.8) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices

Unwanted Emission below 1GHz · AC Conducted Emission



Unwanted Emission above 1GHz



### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product    | Brand  | Model No.         | Serial No. | FCC ID | Remarks               |
|----|------------|--------|-------------------|------------|--------|-----------------------|
| A  | test board | N/A    | N/A               | N/A        | N/A    | Supplied by applicant |
| B  | NB         | Lenovo | IdeaPad 5 15ITL05 | N/A        | N/A    | Provided by Lab       |
| C  | NB Adapter | Lenovo | ADLX65CLGC2A      | N/A        | N/A    | Provided by Lab       |
| D  | NB         | Lenovo | 20J4 MD A003TW    | N/A        | N/A    | Provided by Lab       |
| E  | NB Adapter | Lenovo | ADLX65NCC3A       | N/A        | N/A    | Provided by Lab       |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks               |
|----|--------------------|------|------------|--------------------|--------------|-----------------------|
| 1  | AC cable           | 1    | 1.5        | N                  | 0            | Supplied by applicant |
| 2  | Audio cable        | 1    | 0.5        | N                  | 0            | Supplied by applicant |
| 3  | DC cable           | 1    | 1.9        | N                  | 0            | Provided by Lab       |
| 4  | AC cable           | 1    | 0.8        | N                  | 0            | Provided by Lab       |
| 5  | DC cable           | 1    | 1.5        | N                  | 1            | Provided by Lab       |

## 4 Test Instruments

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

### 4.1 Maximum RF Output Power

| Description<br>Manufacturer            | Model No.     | Serial No.                                      | Calibrated<br>Date | Calibrated<br>Until |
|----------------------------------------|---------------|-------------------------------------------------|--------------------|---------------------|
| Fixed Attenuator<br>Solvang Technology | STI02-3310-10 | STI02-3310-10_013                               | 2025/5/23          | 2026/5/22           |
| Pulse Power Sensor<br>Anritsu          | MA2411B       | 1339443                                         | 2025/6/3           | 2026/6/2            |
| RF Power Meter<br>Anritsu              | ML2495A       | 1529002                                         | 2025/6/3           | 2026/6/2            |
| USB Wideband Power Sensor<br>Keysight  | U2021XA       | MY55050005/MY55190004/<br>MY55190007/MY55210005 | 2024/7/29          | 2025/7/28           |

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/6/6

### 4.2 Maximum Power Spectral Density

| Description<br>Manufacturer            | Model No.                        | Serial No.        | Calibrated<br>Date | Calibrated<br>Until |
|----------------------------------------|----------------------------------|-------------------|--------------------|---------------------|
| Fixed Attenuator<br>Solvang Technology | STI02-3310-10                    | STI02-3310-10_013 | 2025/5/23          | 2026/5/22           |
| PXA Signal Analyzer<br>Keysight        | N9030A                           | MY54490260        | 2024/7/17          | 2025/7/16           |
| Signal Analyzer<br>R&S                 | FSV40                            | 101042            | 2024/9/12          | 2025/9/11           |
| Software                               | ADT_RF Test Software<br>V6.6.5.4 | N/A               | N/A                | N/A                 |

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/6/6

### 4.3 Emission Bandwidth

| Description<br>Manufacturer     | Model No.                        | Serial No.        | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|----------------------------------|-------------------|--------------------|---------------------|
| Fixed Attenuator<br>Woken       | 00800A1K01A-20                   | 00800A1K01A-20-02 | 2025/5/23          | 2026/5/22           |
| PXA Signal Analyzer<br>Keysight | N9030A                           | MY54490260        | 2025/7/24          | 2026/7/23           |
| Signal Analyzer<br>R&S          | FSV40                            | 101544            | 2025/7/1           | 2026/6/30           |
| Software                        | ADT_RF Test Software<br>V6.6.5.4 | N/A               | N/A                | N/A                 |

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/10/2

#### 4.4 In-Band Emission Mask

Refer to section 4.3 to get the tested date and information of the instruments.

#### 4.5 Occupied Bandwidth

Refer to section 4.3 to get the tested date and information of the instruments.

#### 4.6 Contention-based Protocol

| Description<br>Manufacturer             | Model No.      | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------------|----------------|------------|--------------------|---------------------|
| MXG Vector Signal Generator<br>Agilent  | N5182B         | MY53050430 | 2024/11/29         | 2025/11/28          |
| MXG Vector Signal Generator<br>Keysight | N5182BU        | MY59360189 | 2024/11/29         | 2025/11/28          |
| Power Divider<br>Woken                  | 0120A02058001M | DCMD33WIK3 | 2025/4/27          | 2026/4/26           |
|                                         |                | DCMD33WIK7 | 2025/4/27          | 2026/4/26           |
| Signal & Spectrum Analyzer<br>R&S       | FSW26          | 102023     | 2024/11/11         | 2025/11/10          |

Notes:

1. The test was performed in Adaptivity room.
2. Tested Date: 2025/8/14

#### 4.7 AC Power Conducted Emissions

| Description<br>Manufacturer                  | Model No.        | Serial No.   | Calibrated<br>Date | Calibrated<br>Until |
|----------------------------------------------|------------------|--------------|--------------------|---------------------|
| 50 ohm terminal resistance<br>LYNICS         | 0900510          | E1-011284    | 2024/9/16          | 2025/9/15           |
|                                              |                  | E1-011285    | 2024/9/25          | 2025/9/24           |
| Coupling / Decoupling Network<br>Schwarzbeck | CDNE-M2          | 00097        | 2025/5/28          | 2026/5/27           |
|                                              | CDNE-M3          | 00091        | 2025/3/20          | 2026/3/19           |
| Diode Pulse Limiter<br>Schwarzbeck           | VTSD 9561 F-N    | 01422        | 2025/5/2           | 2026/5/1            |
| EMI Test Receiver<br>R&S                     | ESR3             | 102413       | 2025/1/22          | 2026/1/21           |
| Fixed Attenuator<br>EMEC                     | EM-ATT30002602NN | N/A          | 2025/3/21          | 2026/3/20           |
| Fixed Attenuator<br>STI                      | STI02-2200-10    | NO.3         | 2024/10/19         | 2025/10/18          |
| High Voltage Probe<br>Schwarzbeck            | TK9420           | 00982        | 2024/12/6          | 2025/12/5           |
| Highpass filter<br>EMCI                      | 150HPF-ME        | 114005       | 2025/5/2           | 2026/5/1            |
|                                              |                  | 114006       | 2025/5/2           | 2026/5/1            |
|                                              | 150HPF-MF        | 113009       | 2025/5/2           | 2026/5/1            |
| LISN<br>R&S                                  | ENV216           | 101196       | 2025/5/19          | 2026/5/18           |
|                                              | ESH3-Z5          | 100220       | 2024/11/21         | 2025/11/20          |
| LISN<br>Schwarzbeck                          | NNLK 8121        | 8121-00759   | 2024/8/20          | 2025/8/19           |
|                                              |                  | 8121-808     | 2025/4/23          | 2026/4/22           |
|                                              | NNLK 8129        | 00624        | 2024/10/9          | 2025/10/8           |
|                                              |                  | 8129229      | 2024/10/14         | 2025/10/13          |
| RF Coaxial Cable<br>PEWC                     | 5D-FB            | Cable-CO3-01 | 2024/9/12          | 2025/9/11           |
| Software<br>BVADT                            | Cond_V7.4.1.0    | N/A          | N/A                | N/A                 |

Notes:

1. The test was performed in Linkou Conduction 3.
2. Tested Date: 2025/6/14

#### 4.8 Unwanted Emissions below 1 GHz

| Description<br>Manufacturer                  | Model No.        | Serial No.   | Calibrated<br>Date | Calibrated<br>Until |
|----------------------------------------------|------------------|--------------|--------------------|---------------------|
| Bi_Log Antenna<br>Schwarzbeck                | VULB 9168        | 137          | 2024/10/9          | 2025/10/8           |
| Coupling / Decoupling Network<br>Schwarzbeck | CDNE-M2          | 00097        | 2025/5/28          | 2026/5/27           |
|                                              | CDNE-M3          | 00091        | 2025/3/20          | 2026/3/19           |
| MXE EMI Receiver<br>Agilent                  | N9038A           | MY50010158   | 2024/10/11         | 2025/10/10          |
| Preamplifier<br>Agilent                      | 8447D            | 2944A11064   | 2025/2/14          | 2026/2/13           |
| Preamplifier<br>EMCI                         | EMC001340        | 980269       | 2024/6/25          | 2025/6/24           |
| Radiating Loop Antenna<br>TESEQ              | RLA 6120-20      | 80002        | 2024/7/30          | 2025/7/29           |
| RF Coaxial Cable<br>Pacfic                   | 8D-FB            | Cable-CH6-02 | 2024/6/25          | 2025/6/24           |
| Signal Analyzer<br>R&S                       | FSV40            | 101544       | 2024/6/20          | 2025/6/19           |
| Software<br>BVADT                            | Radiated_V8.7.08 | N/A          | N/A                | N/A                 |
| Tower<br>ADT                                 | AT100            | 0306         | N/A                | N/A                 |
| Turn Table<br>ADT                            | TT100            | 0306         | N/A                | N/A                 |

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/6/12

#### 4.9 Unwanted Emissions above 1 GHz

| Description<br>Manufacturer       | Model No.                    | Serial No.  | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------|------------------------------|-------------|--------------------|---------------------|
| Antenna Tower<br>Max-Full         | MFA-515BSN                   | N/A         | N/A                | N/A                 |
| EXA Signal Analyzer<br>Agilent    | N9010A                       | MY52220207  | 2024/12/30         | 2025/12/29          |
| Horn Antenna<br>RFSPIN            | DRH18-E                      | 210104A18E  | 2024/11/10         | 2025/11/9           |
| Horn Antenna<br>Schwarzbeck       | BBHA 9170                    | 9170-1049   | 2024/11/10         | 2025/11/9           |
| MXE EMI Receiver<br>Agilent       | N9038A                       | MY52260177  | 2024/9/19          | 2025/9/18           |
| Preamplifier<br>Agilent           | 83017A                       | MY39501357  | 2024/6/12          | 2025/6/11           |
| Preamplifier<br>EMCI              | EMC184045SE                  | 980788      | 2025/1/14          | 2026/1/13           |
| RF Coaxial Cable<br>EMCI          | EMC101G-KM-KM-2000           | 201254      | 2025/1/14          | 2026/1/13           |
|                                   | EMC101G-KM-KM-3000           | 201258      | 2025/1/14          | 2026/1/13           |
|                                   | EMC101G-KM-KM-5000           | 201261      | 2025/1/14          | 2026/1/13           |
|                                   | EMC104-SM-SM-1000            | 210103      | 2025/1/14          | 2026/1/13           |
|                                   | EMC104-SM-SM-3000            | 201241      | 2025/1/14          | 2026/1/13           |
|                                   | EMC104-SM-SM-9000            | 201244      | 2025/1/14          | 2026/1/13           |
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | N/A         | N/A                | N/A                 |
| Turn Table<br>Max-Full            | MFT-201SS                    | N/A         | N/A                | N/A                 |
| Turn Table Controller<br>Max-Full | MF-7802BS                    | MF780208676 | N/A                | N/A                 |

Notes:

1. The test was performed in WM - 966 chamber 9.
2. Tested Date: 2025/5/16 ~ 2025/5/28

## 5 Limits of Test Items

### 5.1 Maximum RF Output Power

| Operation Band                           | Equipment Class                        | Limit                 |
|------------------------------------------|----------------------------------------|-----------------------|
|                                          |                                        | Maximum Average Power |
| U-NII-5<br>U-NII-6<br>U-NII-7<br>U-NII-8 | 6XD: 15E 6 GHz Low-power Indoor client | EIRP 24 dBm           |

### 5.2 Maximum Power Spectral Density

| Operation Band                           | Equipment Class                        | Limit                 |
|------------------------------------------|----------------------------------------|-----------------------|
|                                          |                                        | Maximum Power Density |
| U-NII-5<br>U-NII-6<br>U-NII-7<br>U-NII-8 | 6XD: 15E 6 GHz Low-power Indoor client | EIRP -1 dBm/MHz       |

### 5.3 Emission Bandwidth

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz.

### 5.4 In-Band Emission Mask

| Test Item     | Frequencies (MHz)                                                                       | (X) dBc* <sup>1</sup> |
|---------------|-----------------------------------------------------------------------------------------|-----------------------|
| Emission Mask | At 1 MHz outside of channel edge                                                        | 20                    |
|               | At one channel bandwidth from the channel center* <sup>2</sup>                          | 28                    |
|               | At one- and one-half times the channel bandwidth away from channel center* <sup>3</sup> | 40                    |
|               | More than one- and one-half times the channel bandwidth                                 | 40                    |

\*<sup>1</sup> : The power spectral density must be suppressed by “x” dB

\*<sup>2</sup> : At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

\*<sup>3</sup> : At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

### 5.5 Occupied Bandwidth

The results are for reference only.

### 5.6 Contention-based Protocol

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

## 5.7 AC Power Conducted Emissions

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

Notes:

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

## 5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

## 5.9 Unwanted Emissions above 1 GHz

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

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, 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 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Frequencies (MHz)       | EIRP Limit             | Equivalent Field Strength at 3 m |
|-------------------------|------------------------|----------------------------------|
| 5925 MHz > F > 7125 MHz | Peak: -7 (dBm/MHz)     | 88.2 (dBuV/m)                    |
|                         | Average: -27 (dBm/MHz) | 68.2 (dBuV/m)                    |

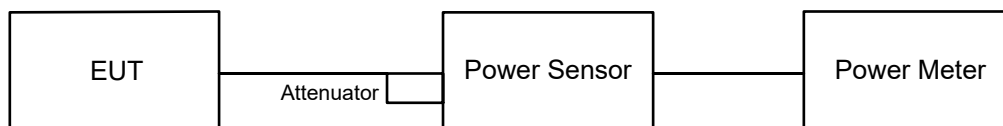
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 Maximum RF Output Power

#### 6.1.1 Test Setup

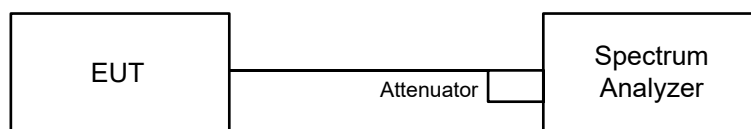


#### 6.1.2 Test Procedure

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

### 6.2 Maximum Power Spectral Density

#### 6.2.1 Test Setup



#### 6.2.2 Test Procedure

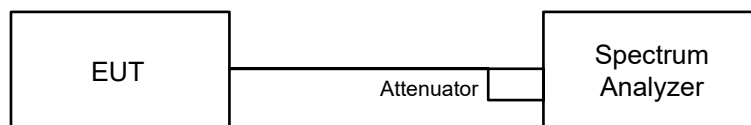
##### For specified measurement bandwidth 1 MHz:

##### Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz,
- Detector = RMS or sample detector mode
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

### 6.3 Emission Bandwidth

#### 6.3.1 Test Setup

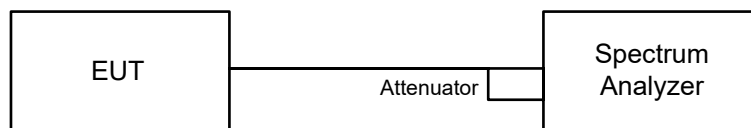


#### 6.3.2 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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%.

## 6.4 In-Band Emission Mask

### 6.4.1 Test Setup

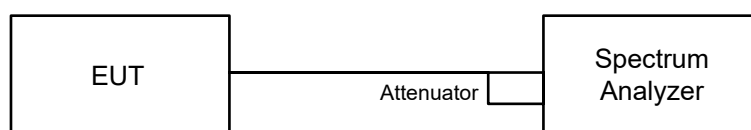


### 6.4.2 Test Procedure

- a) Measure the 26 dB EBW using the test procedure in 12.5.1. (This will be used to determine the channel edge.)
- b) Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
  - 1) Set the span to encompass the entire 26 dB EBW of the signal.
  - 2) Set RBW = same RBW used for 26 dB EBW measurement.
  - 3) Set VBW  $\geq 3 \times$  RBW.
  - 4) Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
  - 5) Sweep time = auto.
  - 6) Detector = RMS (i.e., power averaging).
  - 7) Trace average at least 100 traces in power averaging (rms) mode.
  - 8) Use the peak search function on the instrument to find the peak of the spectrum.
  - 9) For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
  - 10) Adjust the span to encompass the entire mask as necessary.
  - 11) Clear trace.
  - 12) Trace average at least 100 traces in power averaging (rms) mode.
  - 13) Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.
- c) Results shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

## 6.5 Occupied Bandwidth

### 6.5.1 Test Setup



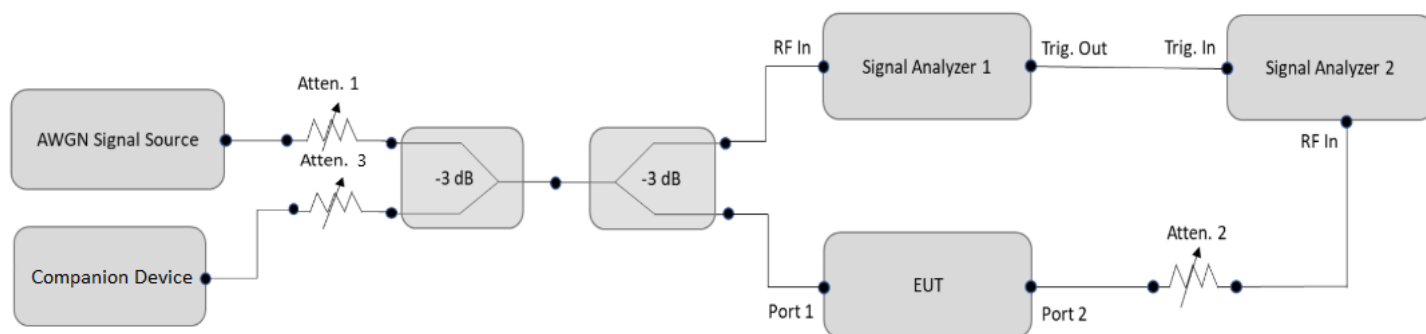
### 6.5.2 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (\text{OBW}/\text{RBW})]$  below the reference level.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

## 6.6 Contention-based Protocol

### 6.6.1 Test Setup



### 6.6.2 Test Procedure

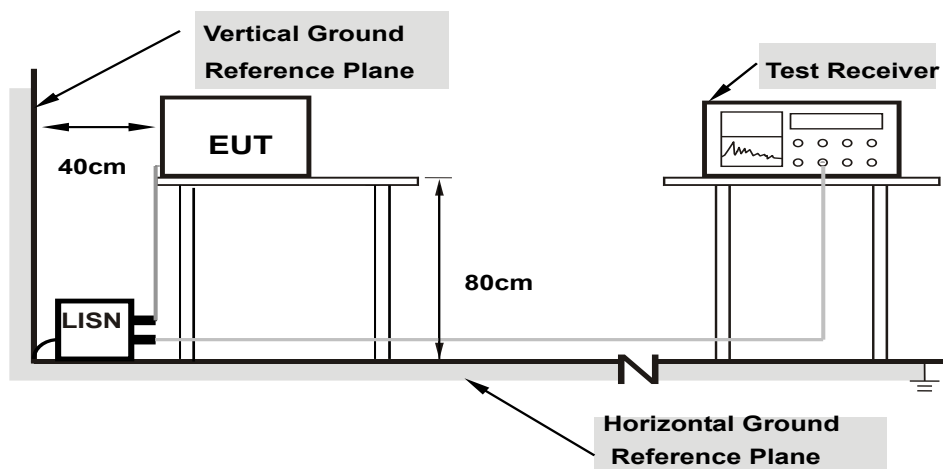
- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

| If                                        | Number of Tests                                                    | Placement of Incumbent Transmission                                        |
|-------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|
| $BW_{EUT} \leq BW_{Inc}$                  | Once                                                               | Same as EUT transmission                                                   |
| $BW_{Inc} < BW_{EUT} \leq 2x BW_{Inc}$    | Once                                                               | Contained within $BW_{EUT}$                                                |
| $2x BW_{Inc} < BW_{EUT} \leq 4x BW_{Inc}$ | Twice.<br>(Incumbent transmission is contained within $BW_{EUT}$ ) | Closely to the lower edge and upper edge of the EUT Channel                |
| $BW_{EUT} > 4x BW_{Inc}$                  | Three times                                                        | Closely to the lower edge ,in the middle and upper edge of the EUT Channel |

- The power measurement of AWGN signal refers to method SA-1 in section 12.4.2.2 of ANSI C63.10-2020.
- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

## 6.7 AC Power Conducted Emissions

### 6.7.1 Test Setup



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

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

### 6.7.2 Test Procedure

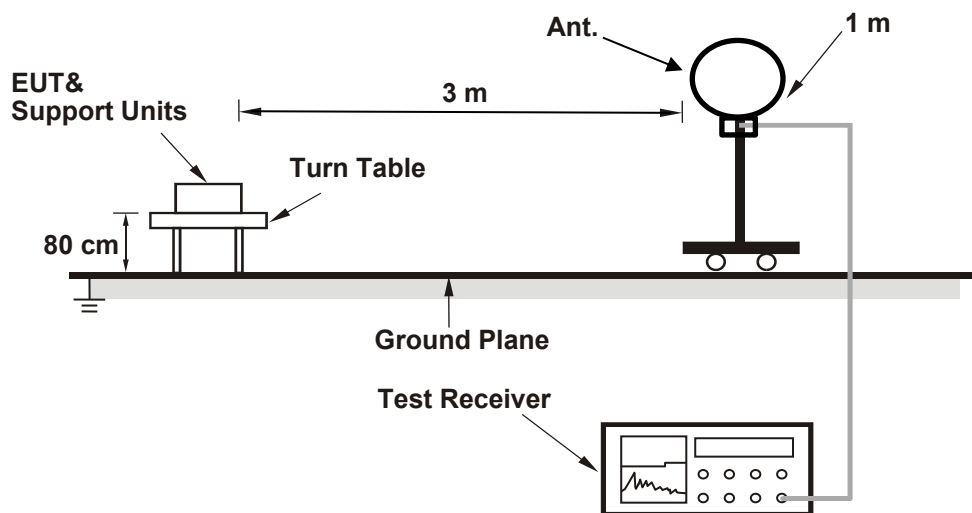
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

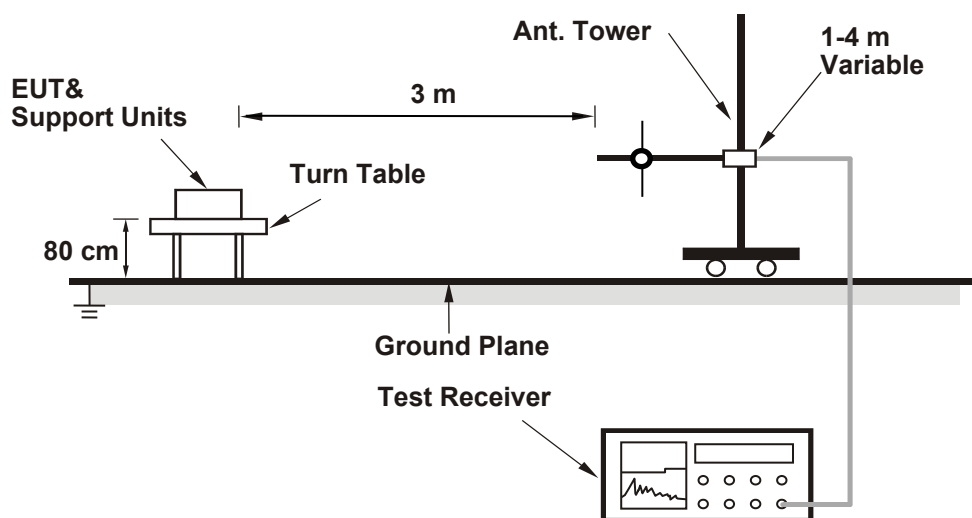
## 6.8 Unwanted Emissions below 1 GHz

### 6.8.1 Test Setup

#### For Radiated emission below 30 MHz



#### For Radiated emission above 30 MHz



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

## 6.8.2 Test Procedure

### For Radiated emission below 30 MHz

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

#### Notes:

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

### For Radiated emission above 30 MHz

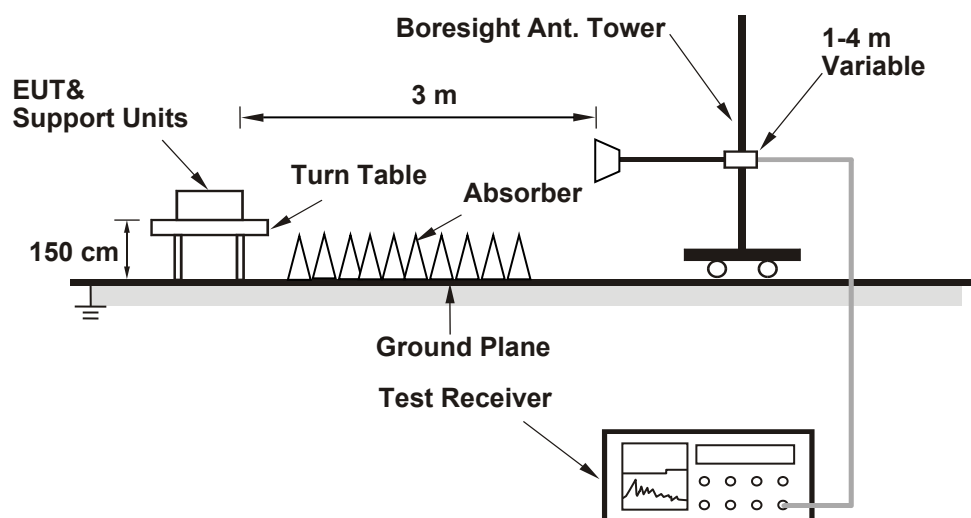
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

#### Notes:

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

## 6.9 Unwanted Emissions above 1 GHz

### 6.9.1 Test Setup



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

### 6.9.2 Test Procedure

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

#### Notes:

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

## 7 Test Results of Test Item

### 7.1 Maximum RF Output Power

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

#### Mode A

#### 802.11a

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|--------------------|---------------------|--------------------|-----------|------------|------------------|-------------|
| 1     | 5955              | 11.246             | 10.51               | 3.37               | 24.434    | 13.88      | 24               | Pass        |
| 45    | 6175              | 11.22              | 10.50               | 3.37               | 24.378    | 13.87      | 24               | Pass        |
| 93    | 6415              | 11.117             | 10.46               | 3.37               | 24.154    | 13.83      | 24               | Pass        |
| 97    | 6435              | 11.298             | 10.53               | 3.37               | 24.547    | 13.9       | 24               | Pass        |
| 105   | 6475              | 11.35              | 10.55               | 3.37               | 24.66     | 13.92      | 24               | Pass        |
| 113   | 6515              | 11.169             | 10.48               | 3.37               | 24.267    | 13.85      | 24               | Pass        |
| 117   | 6535              | 11.041             | 10.43               | 3.37               | 23.989    | 13.8       | 24               | Pass        |
| 149   | 6695              | 11.402             | 10.57               | 3.37               | 24.773    | 13.94      | 24               | Pass        |
| 181   | 6855              | 11.614             | 10.65               | 3.37               | 25.234    | 14.02      | 24               | Pass        |
| 185   | 6875              | 11.066             | 10.44               | 3.37               | 24.043    | 13.81      | 24               | Pass        |
| 209   | 6995              | 7.709              | 8.87                | 3.37               | 16.749    | 12.24      | 24               | Pass        |
| 233   | 7115              | 4.932              | 6.93                | 3.37               | 10.716    | 10.3       | 24               | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE20)

| Chan. | Chan. Freq.<br>(MHz) | Average<br>Power<br>(mW) | Average<br>Power<br>(dBm) | Antenna<br>Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|--------------------------|---------------------------|-----------------------|-----------|------------|---------------------|-------------|
| 1     | 5955                 | 11.508                   | 10.61                     | 3.37                  | 25.003    | 13.98      | 24                  | Pass        |
| 45    | 6175                 | 11.402                   | 10.57                     | 3.37                  | 24.773    | 13.94      | 24                  | Pass        |
| 93    | 6415                 | 11.641                   | 10.66                     | 3.37                  | 25.292    | 14.03      | 24                  | Pass        |
| 97    | 6435                 | 11.376                   | 10.56                     | 3.37                  | 24.717    | 13.93      | 24                  | Pass        |
| 105   | 6475                 | 11.298                   | 10.53                     | 3.37                  | 24.547    | 13.9       | 24                  | Pass        |
| 113   | 6515                 | 11.272                   | 10.52                     | 3.37                  | 24.491    | 13.89      | 24                  | Pass        |
| 117   | 6535                 | 11.588                   | 10.64                     | 3.37                  | 25.177    | 14.01      | 24                  | Pass        |
| 149   | 6695                 | 11.561                   | 10.63                     | 3.37                  | 25.119    | 14         | 24                  | Pass        |
| 181   | 6855                 | 11.092                   | 10.45                     | 3.37                  | 24.1      | 13.82      | 24                  | Pass        |
| 185   | 6875                 | 10.99                    | 10.41                     | 3.37                  | 23.878    | 13.78      | 24                  | Pass        |
| 209   | 6995                 | 7.396                    | 8.69                      | 3.37                  | 16.069    | 12.06      | 24                  | Pass        |
| 233   | 7115                 | 3.365                    | 5.27                      | 3.37                  | 7.311     | 8.64       | 24                  | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE40)

| Chan. | Chan. Freq.<br>(MHz) | Average<br>Power<br>(mW) | Average<br>Power<br>(dBm) | Antenna<br>Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|--------------------------|---------------------------|-----------------------|-----------|------------|---------------------|-------------|
| 3     | 5965                 | 21.232                   | 13.27                     | 3.37                  | 46.131    | 16.64      | 24                  | Pass        |
| 43    | 6165                 | 22.439                   | 13.51                     | 3.37                  | 48.753    | 16.88      | 24                  | Pass        |
| 91    | 6405                 | 18.793                   | 12.74                     | 3.37                  | 40.832    | 16.11      | 24                  | Pass        |
| 99    | 6445                 | 22.803                   | 13.58                     | 3.37                  | 49.544    | 16.95      | 24                  | Pass        |
| 107   | 6485                 | 23.605                   | 13.73                     | 3.37                  | 51.287    | 17.1       | 24                  | Pass        |
| 115   | 6525                 | 23.988                   | 13.80                     | 3.37                  | 52.119    | 17.17      | 24                  | Pass        |
| 123   | 6565                 | 24.099                   | 13.82                     | 3.37                  | 52.36     | 17.19      | 24                  | Pass        |
| 155   | 6725                 | 23.823                   | 13.77                     | 3.37                  | 51.76     | 17.14      | 24                  | Pass        |
| 179   | 6845                 | 30.13                    | 14.79                     | 3.37                  | 65.463    | 18.16      | 24                  | Pass        |
| 187   | 6885                 | 28.642                   | 14.57                     | 3.37                  | 62.231    | 17.94      | 24                  | Pass        |
| 211   | 7005                 | 16.255                   | 12.11                     | 3.37                  | 35.317    | 15.48      | 24                  | Pass        |
| 227   | 7085                 | 14.655                   | 11.66                     | 3.37                  | 31.841    | 15.03      | 24                  | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

# 802.11ax (HE80)

| Chan. | Chan. Freq.<br>(MHz) | Average<br>Power<br>(mW) | Average<br>Power<br>(dBm) | Antenna<br>Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|--------------------------|---------------------------|-----------------------|-----------|------------|---------------------|-------------|
| 7     | 5985                 | 41.115                   | 16.14                     | 3.37                  | 89.331    | 19.51      | 24                  | Pass        |
| 39    | 6145                 | 39.628                   | 15.98                     | 3.37                  | 86.1      | 19.35      | 24                  | Pass        |
| 87    | 6385                 | 39.902                   | 16.01                     | 3.37                  | 86.695    | 19.38      | 24                  | Pass        |
| 103   | 6465                 | 41.495                   | 16.18                     | 3.37                  | 90.156    | 19.55      | 24                  | Pass        |
| 119   | 6545                 | 49.204                   | 16.92                     | 3.37                  | 106.906   | 20.29      | 24                  | Pass        |
| 151   | 6705                 | 50.933                   | 17.07                     | 3.37                  | 110.662   | 20.44      | 24                  | Pass        |
| 183   | 6865                 | 51.05                    | 17.08                     | 3.37                  | 110.916   | 20.45      | 24                  | Pass        |
| 199   | 6945                 | 46.026                   | 16.63                     | 3.37                  | 100.001   | 20         | 24                  | Pass        |
| 215   | 7025                 | 29.854                   | 14.75                     | 3.37                  | 64.864    | 18.12      | 24                  | Pass        |

## Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

## Mode B

### 802.11a

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|--------------------|---------------------|--------------------|-----------|------------|------------------|-------------|
| 1     | 5955              | 10.304             | 10.13               | 3.37               | 22.388    | 13.5       | 24               | Pass        |
| 45    | 6175              | 10.839             | 10.35               | 3.37               | 23.55     | 13.72      | 24               | Pass        |
| 93    | 6415              | 10.233             | 10.10               | 3.37               | 22.233    | 13.47      | 24               | Pass        |
| 97    | 6435              | 10.789             | 10.33               | 3.37               | 23.441    | 13.7       | 24               | Pass        |
| 105   | 6475              | 10.99              | 10.41               | 3.37               | 23.878    | 13.78      | 24               | Pass        |
| 113   | 6515              | 10.74              | 10.31               | 3.37               | 23.335    | 13.68      | 24               | Pass        |
| 117   | 6535              | 10.399             | 10.17               | 3.37               | 22.594    | 13.54      | 24               | Pass        |
| 149   | 6695              | 11.402             | 10.57               | 3.37               | 24.773    | 13.94      | 24               | Pass        |
| 181   | 6855              | 11.508             | 10.61               | 3.37               | 25.003    | 13.98      | 24               | Pass        |
| 185   | 6875              | 13.74              | 11.38               | 3.37               | 29.853    | 14.75      | 24               | Pass        |
| 209   | 6995              | 9.817              | 9.92                | 3.37               | 21.329    | 13.29      | 24               | Pass        |
| 233   | 7115              | 3.327              | 5.22                | 3.37               | 7.229     | 8.59       | 24               | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|--------------------|---------------------|--------------------|-----------|------------|------------------|-------------|
| 1     | 5955              | 11.561             | 10.63               | 3.37               | 25.119    | 14         | 24               | Pass        |
| 45    | 6175              | 11.455             | 10.59               | 3.37               | 24.888    | 13.96      | 24               | Pass        |
| 93    | 6415              | 9.795              | 9.91                | 3.37               | 21.282    | 13.28      | 24               | Pass        |
| 97    | 6435              | 11.641             | 10.66               | 3.37               | 25.292    | 14.03      | 24               | Pass        |
| 105   | 6475              | 11.776             | 10.71               | 3.37               | 25.586    | 14.08      | 24               | Pass        |
| 113   | 6515              | 12.023             | 10.80               | 3.37               | 26.122    | 14.17      | 24               | Pass        |
| 117   | 6535              | 12.19              | 10.86               | 3.37               | 26.485    | 14.23      | 24               | Pass        |
| 149   | 6695              | 13.092             | 11.17               | 3.37               | 28.445    | 14.54      | 24               | Pass        |
| 181   | 6855              | 14.555             | 11.63               | 3.37               | 31.624    | 15         | 24               | Pass        |
| 185   | 6875              | 15.631             | 11.94               | 3.37               | 33.961    | 15.31      | 24               | Pass        |
| 209   | 6995              | 7.656              | 8.84                | 3.37               | 16.634    | 12.21      | 24               | Pass        |
| 233   | 7115              | 1.355              | 1.32                | 3.37               | 2.944     | 4.69       | 24               | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Antenna Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|-------|-------------------|--------------------|---------------------|--------------------|-----------|------------|------------------|-------------|
| 3     | 5965              | 19.588             | 12.92               | 3.37               | 42.559    | 16.29      | 24               | Pass        |
| 43    | 6165              | 19.77              | 12.96               | 3.37               | 42.954    | 16.33      | 24               | Pass        |
| 91    | 6405              | 19.275             | 12.85               | 3.37               | 41.879    | 16.22      | 24               | Pass        |
| 99    | 6445              | 25.468             | 14.06               | 3.37               | 55.334    | 17.43      | 24               | Pass        |
| 107   | 6485              | 25.003             | 13.98               | 3.37               | 54.324    | 17.35      | 24               | Pass        |
| 115   | 6525              | 24.774             | 13.94               | 3.37               | 53.826    | 17.31      | 24               | Pass        |
| 123   | 6565              | 25.235             | 14.02               | 3.37               | 54.828    | 17.39      | 24               | Pass        |
| 155   | 6725              | 27.99              | 14.47               | 3.37               | 60.814    | 17.84      | 24               | Pass        |
| 179   | 6845              | 32.285             | 15.09               | 3.37               | 70.146    | 18.46      | 24               | Pass        |
| 187   | 6885              | 31.261             | 14.95               | 3.37               | 67.921    | 18.32      | 24               | Pass        |
| 211   | 7005              | 14.488             | 11.61               | 3.37               | 31.478    | 14.98      | 24               | Pass        |
| 227   | 7085              | 13.614             | 11.34               | 3.37               | 29.579    | 14.71      | 24               | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

# 802.11ax (HE80)

| Chan. | Chan. Freq.<br>(MHz) | Average<br>Power<br>(mW) | Average<br>Power<br>(dBm) | Antenna<br>Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit<br>(dBm) | Test Result |
|-------|----------------------|--------------------------|---------------------------|-----------------------|-----------|------------|---------------------|-------------|
| 7     | 5985                 | 39.719                   | 15.99                     | 3.37                  | 86.298    | 19.36      | 24                  | Pass        |
| 39    | 6145                 | 43.451                   | 16.38                     | 3.37                  | 94.406    | 19.75      | 24                  | Pass        |
| 87    | 6385                 | 41.783                   | 16.21                     | 3.37                  | 90.782    | 19.58      | 24                  | Pass        |
| 103   | 6465                 | 50.933                   | 17.07                     | 3.37                  | 110.662   | 20.44      | 24                  | Pass        |
| 119   | 6545                 | 49.888                   | 16.98                     | 3.37                  | 108.392   | 20.35      | 24                  | Pass        |
| 151   | 6705                 | 52                       | 17.16                     | 3.37                  | 112.98    | 20.53      | 24                  | Pass        |
| 183   | 6865                 | 44.259                   | 16.46                     | 3.37                  | 96.162    | 19.83      | 24                  | Pass        |
| 199   | 6945                 | 49.888                   | 16.98                     | 3.37                  | 108.392   | 20.35      | 24                  | Pass        |
| 215   | 7025                 | 26.73                    | 14.27                     | 3.37                  | 58.076    | 17.64      | 24                  | Pass        |

## Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

## 7.2 Maximum Power Spectral Density

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

### Mode A

#### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | Antenna Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|---------------|--------------------|--------------------|--------------------------|-------------|
| 1     | 5955              | -4.45         | 3.37               | -1.08              | -1                       | Pass        |
| 45    | 6175              | -4.51         | 3.37               | -1.14              | -1                       | Pass        |
| 93    | 6415              | -4.50         | 3.37               | -1.13              | -1                       | Pass        |
| 97    | 6435              | -4.62         | 3.37               | -1.25              | -1                       | Pass        |
| 105   | 6475              | -4.53         | 3.37               | -1.16              | -1                       | Pass        |
| 113   | 6515              | -4.49         | 3.37               | -1.12              | -1                       | Pass        |
| 117   | 6535              | -4.63         | 3.37               | -1.26              | -1                       | Pass        |
| 149   | 6695              | -4.45         | 3.37               | -1.08              | -1                       | Pass        |
| 181   | 6855              | -4.41         | 3.37               | -1.04              | -1                       | Pass        |
| 185   | 6875              | -4.64         | 3.37               | -1.27              | -1                       | Pass        |
| 209   | 6995              | -4.39         | 3.37               | -1.02              | -1                       | Pass        |
| 233   | 7115              | -5.31         | 3.37               | -1.94              | -1                       | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE20)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | Antenna Gain<br>(dBi) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|---------------|-----------------------|-----------------------|-----------------------------|-------------|
| 1     | 5955                 | -4.50         | 3.37                  | -1.13                 | -1                          | Pass        |
| 45    | 6175                 | -4.51         | 3.37                  | -1.14                 | -1                          | Pass        |
| 93    | 6415                 | -4.44         | 3.37                  | -1.07                 | -1                          | Pass        |
| 97    | 6435                 | -4.50         | 3.37                  | -1.13                 | -1                          | Pass        |
| 105   | 6475                 | -4.52         | 3.37                  | -1.15                 | -1                          | Pass        |
| 113   | 6515                 | -4.52         | 3.37                  | -1.15                 | -1                          | Pass        |
| 117   | 6535                 | -4.47         | 3.37                  | -1.1                  | -1                          | Pass        |
| 149   | 6695                 | -4.47         | 3.37                  | -1.1                  | -1                          | Pass        |
| 181   | 6855                 | -4.69         | 3.37                  | -1.32                 | -1                          | Pass        |
| 185   | 6875                 | -4.67         | 3.37                  | -1.3                  | -1                          | Pass        |
| 209   | 6995                 | -4.67         | 3.37                  | -1.3                  | -1                          | Pass        |
| 233   | 7115                 | -6.38         | 3.37                  | -3.01                 | -1                          | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE40)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | Antenna Gain<br>(dBi) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|---------------|-----------------------|-----------------------|-----------------------------|-------------|
| 3     | 5965                 | -4.41         | 3.37                  | -1.04                 | -1                          | Pass        |
| 43    | 6165                 | -4.42         | 3.37                  | -1.05                 | -1                          | Pass        |
| 91    | 6405                 | -4.64         | 3.37                  | -1.27                 | -1                          | Pass        |
| 99    | 6445                 | -4.58         | 3.37                  | -1.21                 | -1                          | Pass        |
| 107   | 6485                 | -4.60         | 3.37                  | -1.23                 | -1                          | Pass        |
| 115   | 6525                 | -4.64         | 3.37                  | -1.27                 | -1                          | Pass        |
| 123   | 6565                 | -4.61         | 3.37                  | -1.24                 | -1                          | Pass        |
| 155   | 6725                 | -4.86         | 3.37                  | -1.49                 | -1                          | Pass        |
| 179   | 6845                 | -4.42         | 3.37                  | -1.05                 | -1                          | Pass        |
| 187   | 6885                 | -4.66         | 3.37                  | -1.29                 | -1                          | Pass        |
| 211   | 7005                 | -4.49         | 3.37                  | -1.12                 | -1                          | Pass        |
| 227   | 7085                 | -4.53         | 3.37                  | -1.16                 | -1                          | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

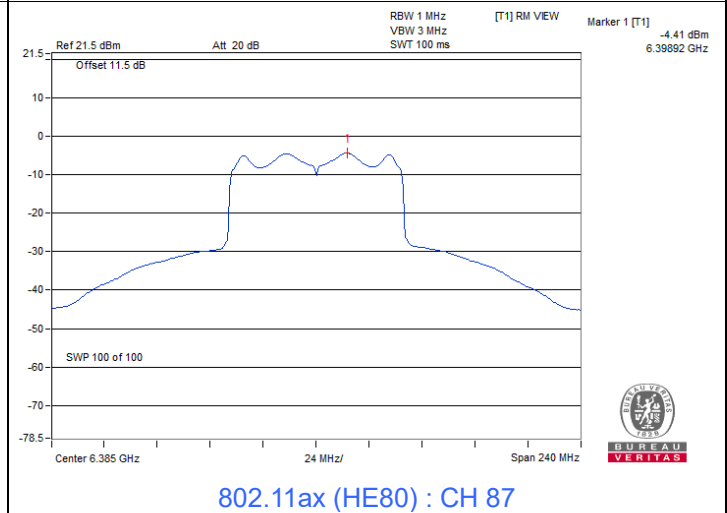
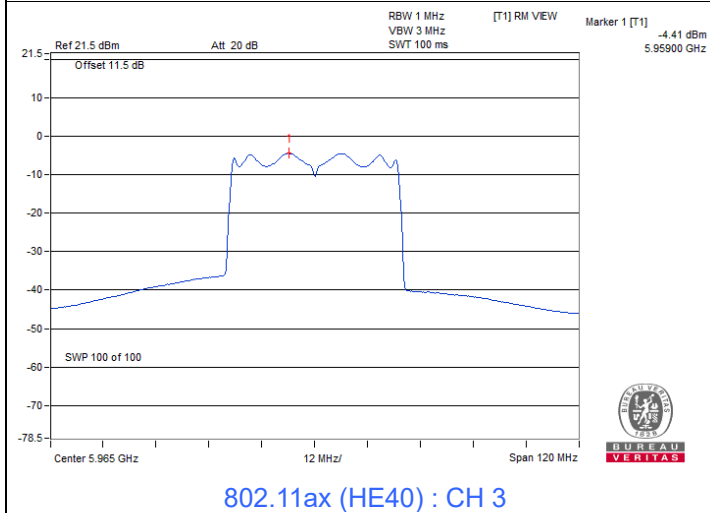
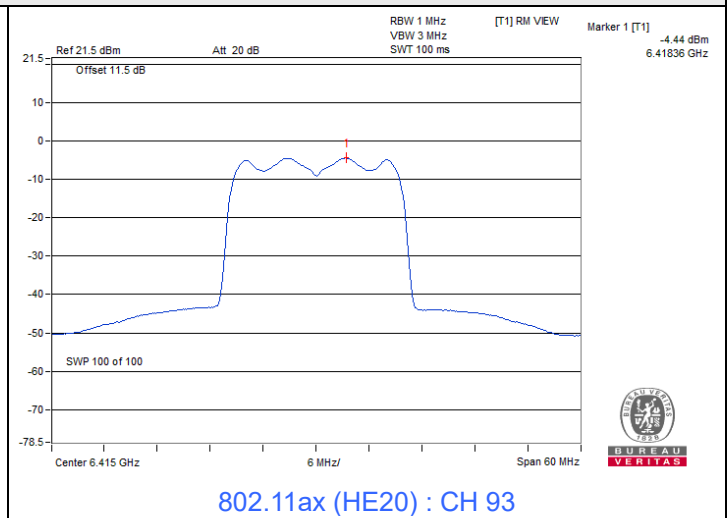
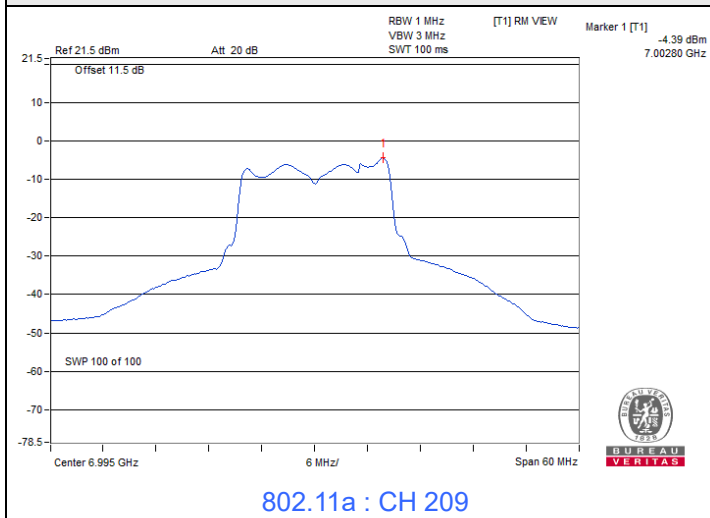
### 802.11ax (HE80)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | Antenna Gain<br>(dBi) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|---------------|-----------------------|-----------------------|-----------------------------|-------------|
| 7     | 5985                 | -4.47         | 3.37                  | -1.1                  | -1                          | Pass        |
| 39    | 6145                 | -4.60         | 3.37                  | -1.23                 | -1                          | Pass        |
| 87    | 6385                 | -4.41         | 3.37                  | -1.04                 | -1                          | Pass        |
| 103   | 6465                 | -4.55         | 3.37                  | -1.18                 | -1                          | Pass        |
| 119   | 6545                 | -4.73         | 3.37                  | -1.36                 | -1                          | Pass        |
| 151   | 6705                 | -4.69         | 3.37                  | -1.32                 | -1                          | Pass        |
| 183   | 6865                 | -5.03         | 3.37                  | -1.66                 | -1                          | Pass        |
| 199   | 6945                 | -4.49         | 3.37                  | -1.12                 | -1                          | Pass        |
| 215   | 7025                 | -4.47         | 3.37                  | -1.1                  | -1                          | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

## Spectrum Plot of Maximum Value



|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

## Mode B

### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | Antenna Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Test Result |
|-------|-------------------|---------------|--------------------|--------------------|--------------------------|-------------|
| 1     | 5955              | -4.76         | 3.37               | -1.39              | -1                       | Pass        |
| 45    | 6175              | -4.55         | 3.37               | -1.18              | -1                       | Pass        |
| 93    | 6415              | -4.53         | 3.37               | -1.16              | -1                       | Pass        |
| 97    | 6435              | -4.59         | 3.37               | -1.22              | -1                       | Pass        |
| 105   | 6475              | -4.51         | 3.37               | -1.14              | -1                       | Pass        |
| 113   | 6515              | -4.51         | 3.37               | -1.14              | -1                       | Pass        |
| 117   | 6535              | -4.77         | 3.37               | -1.4               | -1                       | Pass        |
| 149   | 6695              | -4.57         | 3.37               | -1.2               | -1                       | Pass        |
| 181   | 6855              | -4.50         | 3.37               | -1.13              | -1                       | Pass        |
| 185   | 6875              | -4.58         | 3.37               | -1.21              | -1                       | Pass        |
| 209   | 6995              | -4.43         | 3.37               | -1.06              | -1                       | Pass        |
| 233   | 7115              | -7.01         | 3.37               | -3.64              | -1                       | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE20)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | Antenna Gain<br>(dBi) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|---------------|-----------------------|-----------------------|-----------------------------|-------------|
| 1     | 5955                 | -4.38         | 3.37                  | -1.01                 | -1                          | Pass        |
| 45    | 6175                 | -4.51         | 3.37                  | -1.14                 | -1                          | Pass        |
| 93    | 6415                 | -4.65         | 3.37                  | -1.28                 | -1                          | Pass        |
| 97    | 6435                 | -4.49         | 3.37                  | -1.12                 | -1                          | Pass        |
| 105   | 6475                 | -4.49         | 3.37                  | -1.12                 | -1                          | Pass        |
| 113   | 6515                 | -4.42         | 3.37                  | -1.05                 | -1                          | Pass        |
| 117   | 6535                 | -4.41         | 3.37                  | -1.04                 | -1                          | Pass        |
| 149   | 6695                 | -4.51         | 3.37                  | -1.14                 | -1                          | Pass        |
| 181   | 6855                 | -4.76         | 3.37                  | -1.39                 | -1                          | Pass        |
| 185   | 6875                 | -4.53         | 3.37                  | -1.16                 | -1                          | Pass        |
| 209   | 6995                 | -4.60         | 3.37                  | -1.23                 | -1                          | Pass        |
| 233   | 7115                 | -11.56        | 3.37                  | -8.19                 | -1                          | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

### 802.11ax (HE40)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | Antenna Gain<br>(dBi) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|---------------|-----------------------|-----------------------|-----------------------------|-------------|
| 3     | 5965                 | -4.55         | 3.37                  | -1.18                 | -1                          | Pass        |
| 43    | 6165                 | -4.74         | 3.37                  | -1.37                 | -1                          | Pass        |
| 91    | 6405                 | -4.56         | 3.37                  | -1.19                 | -1                          | Pass        |
| 99    | 6445                 | -4.83         | 3.37                  | -1.46                 | -1                          | Pass        |
| 107   | 6485                 | -4.75         | 3.37                  | -1.38                 | -1                          | Pass        |
| 115   | 6525                 | -4.76         | 3.37                  | -1.39                 | -1                          | Pass        |
| 123   | 6565                 | -4.68         | 3.37                  | -1.31                 | -1                          | Pass        |
| 155   | 6725                 | -4.52         | 3.37                  | -1.15                 | -1                          | Pass        |
| 179   | 6845                 | -4.57         | 3.37                  | -1.2                  | -1                          | Pass        |
| 187   | 6885                 | -4.87         | 3.37                  | -1.5                  | -1                          | Pass        |
| 211   | 7005                 | -4.41         | 3.37                  | -1.04                 | -1                          | Pass        |
| 227   | 7085                 | -4.55         | 3.37                  | -1.18                 | -1                          | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

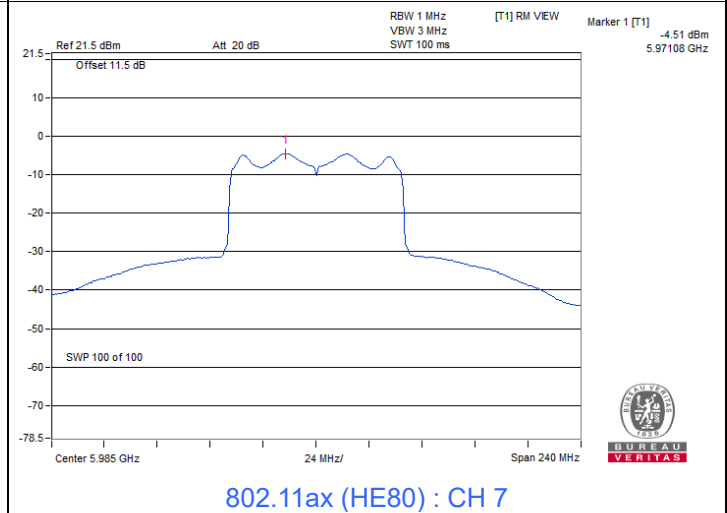
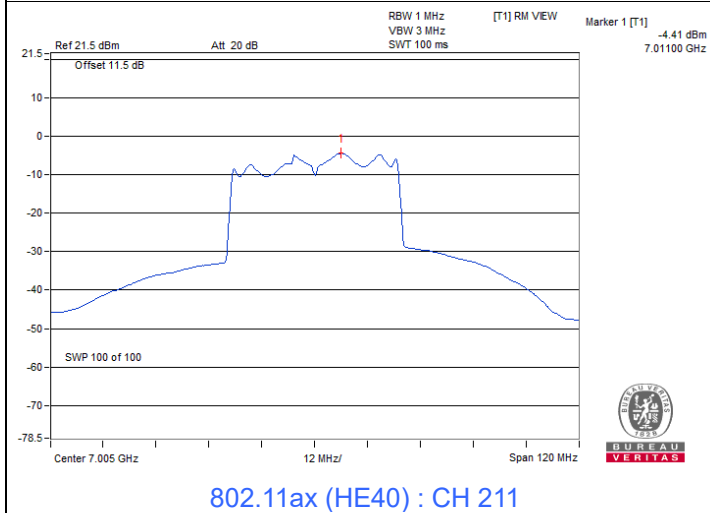
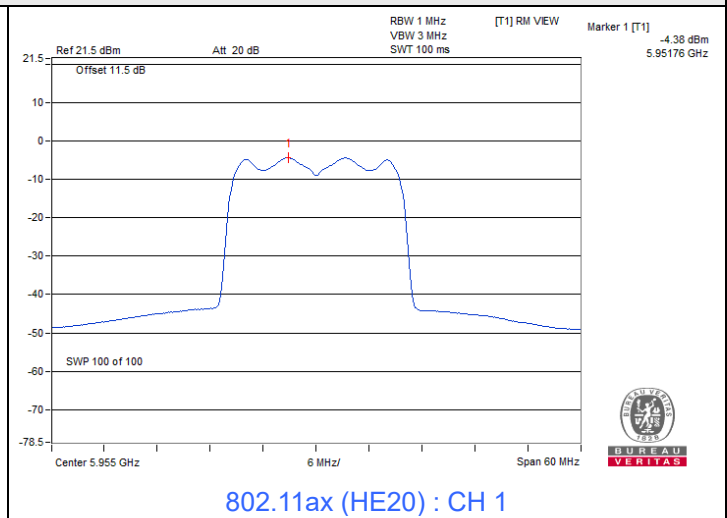
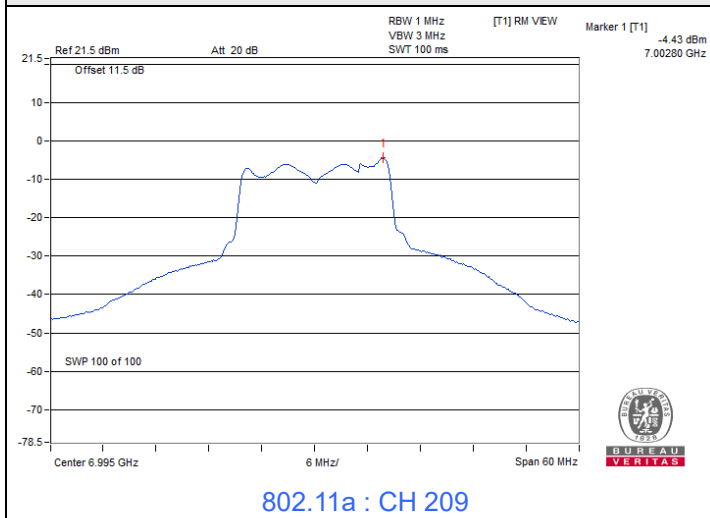
### 802.11ax (HE80)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | Antenna Gain<br>(dBi) | EIRP PSD<br>(dBm/MHz) | EIRP PSD Limit<br>(dBm/MHz) | Test Result |
|-------|----------------------|---------------|-----------------------|-----------------------|-----------------------------|-------------|
| 7     | 5985                 | -4.51         | 3.37                  | -1.14                 | -1                          | Pass        |
| 39    | 6145                 | -4.54         | 3.37                  | -1.17                 | -1                          | Pass        |
| 87    | 6385                 | -4.51         | 3.37                  | -1.14                 | -1                          | Pass        |
| 103   | 6465                 | -4.88         | 3.37                  | -1.51                 | -1                          | Pass        |
| 119   | 6545                 | -4.88         | 3.37                  | -1.51                 | -1                          | Pass        |
| 151   | 6705                 | -5.19         | 3.37                  | -1.82                 | -1                          | Pass        |
| 183   | 6865                 | -6.54         | 3.37                  | -3.17                 | -1                          | Pass        |
| 199   | 6945                 | -5.04         | 3.37                  | -1.67                 | -1                          | Pass        |
| 215   | 7025                 | -4.66         | 3.37                  | -1.29                 | -1                          | Pass        |

#### Notes:

1. For U-NII-5, The antenna gain is 3.37 dBi.
2. For U-NII-6, The antenna gain is 3.37 dBi.
3. For U-NII-7, The antenna gain is 3.37 dBi.
4. For U-NII-8, The antenna gain is 3.37 dBi.

## Spectrum Plot of Maximum Value



### 7.3 Emission Bandwidth

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

#### Mode A

##### 802.11a

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 1       | 5955            | 32.54                 | 320                 | Pass        |
| 45      | 6175            | 32.64                 | 320                 | Pass        |
| 93      | 6415            | 32.12                 | 320                 | Pass        |
| 97      | 6435            | 35.39                 | 320                 | Pass        |
| 105     | 6475            | 35.85                 | 320                 | Pass        |
| 113     | 6515            | 36.18                 | 320                 | Pass        |
| 117     | 6535            | 35.57                 | 320                 | Pass        |
| 149     | 6695            | 39.03                 | 320                 | Pass        |
| 181     | 6855            | 39.12                 | 320                 | Pass        |
| 185     | 6875            | 38.55                 | 320                 | Pass        |
| 209     | 6995            | 30.93                 | 320                 | Pass        |
| 233     | 7115            | 22.98                 | 320                 | Pass        |

##### 802.11ax (HE20)

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 1       | 5955            | 20.96                 | 320                 | Pass        |
| 45      | 6175            | 20.96                 | 320                 | Pass        |
| 93      | 6415            | 20.93                 | 320                 | Pass        |
| 97      | 6435            | 22.11                 | 320                 | Pass        |
| 105     | 6475            | 21.92                 | 320                 | Pass        |
| 113     | 6515            | 21.91                 | 320                 | Pass        |
| 117     | 6535            | 24.72                 | 320                 | Pass        |
| 149     | 6695            | 24.89                 | 320                 | Pass        |
| 181     | 6855            | 24.91                 | 320                 | Pass        |
| 185     | 6875            | 26.47                 | 320                 | Pass        |
| 209     | 6995            | 21                    | 320                 | Pass        |
| 233     | 7115            | 20.97                 | 320                 | Pass        |

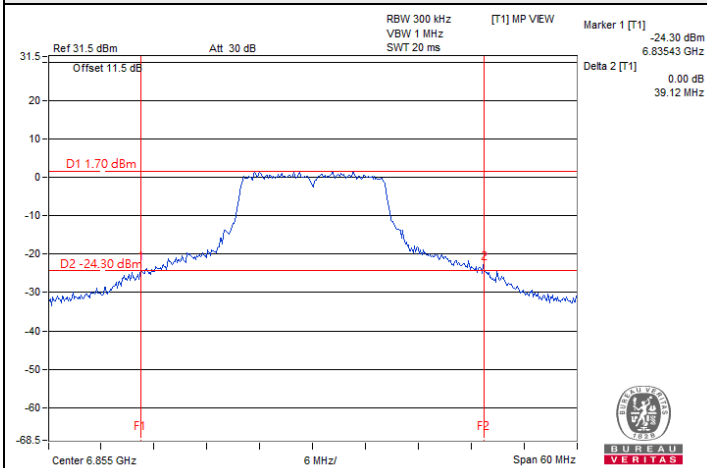
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 3       | 5965            | 39.79                 | 320                 | Pass        |
| 43      | 6165            | 39.77                 | 320                 | Pass        |
| 91      | 6405            | 39.65                 | 320                 | Pass        |
| 99      | 6445            | 68.74                 | 320                 | Pass        |
| 107     | 6485            | 66.23                 | 320                 | Pass        |
| 115     | 6525            | 72.87                 | 320                 | Pass        |
| 123     | 6565            | 81.48                 | 320                 | Pass        |
| 155     | 6725            | 88.5                  | 320                 | Pass        |
| 179     | 6845            | 91.13                 | 320                 | Pass        |
| 187     | 6885            | 87.06                 | 320                 | Pass        |
| 211     | 7005            | 53.48                 | 320                 | Pass        |
| 227     | 7085            | 60.53                 | 320                 | Pass        |

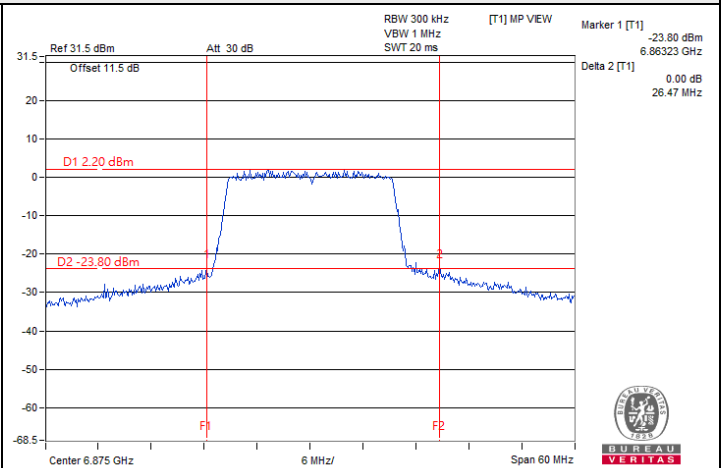
### 802.11ax (HE80)

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 7       | 5985            | 134.15                | 320                 | Pass        |
| 39      | 6145            | 132.6                 | 320                 | Pass        |
| 87      | 6385            | 181.69                | 320                 | Pass        |
| 103     | 6465            | 182.65                | 320                 | Pass        |
| 119     | 6545            | 206.05                | 320                 | Pass        |
| 151     | 6705            | 213.28                | 320                 | Pass        |
| 183     | 6865            | 204.11                | 320                 | Pass        |
| 199     | 6945            | 212.89                | 320                 | Pass        |
| 215     | 7025            | 127.56                | 320                 | Pass        |

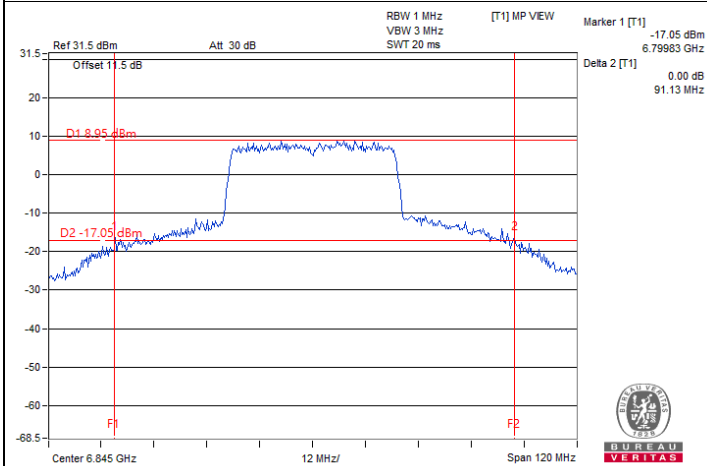
## Spectrum Plot of Maximum Value



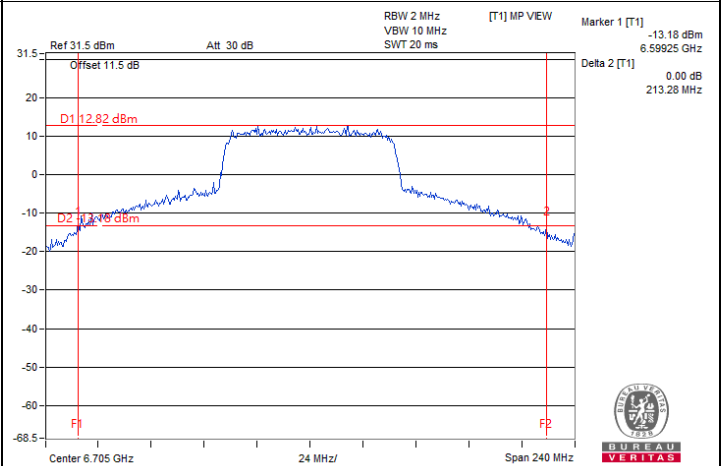
802.11a : CH 181



802.11ax (HE20) : CH 185



802.11ax (HE40) : CH 179



802.11ax (HE80) : CH 151

## Mode B

### 802.11a

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 1       | 5955            | 32.56                 | 320                 | Pass        |
| 45      | 6175            | 32.58                 | 320                 | Pass        |
| 93      | 6415            | 32.16                 | 320                 | Pass        |
| 97      | 6435            | 36.81                 | 320                 | Pass        |
| 105     | 6475            | 37.24                 | 320                 | Pass        |
| 113     | 6515            | 38.35                 | 320                 | Pass        |
| 117     | 6535            | 37.97                 | 320                 | Pass        |
| 149     | 6695            | 39.7                  | 320                 | Pass        |
| 181     | 6855            | 39.36                 | 320                 | Pass        |
| 185     | 6875            | 39.13                 | 320                 | Pass        |
| 209     | 6995            | 37.73                 | 320                 | Pass        |
| 233     | 7115            | 21.05                 | 320                 | Pass        |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 1       | 5955            | 20.94                 | 320                 | Pass        |
| 45      | 6175            | 20.99                 | 320                 | Pass        |
| 93      | 6415            | 20.95                 | 320                 | Pass        |
| 97      | 6435            | 23.02                 | 320                 | Pass        |
| 105     | 6475            | 21.96                 | 320                 | Pass        |
| 113     | 6515            | 23.53                 | 320                 | Pass        |
| 117     | 6535            | 24.39                 | 320                 | Pass        |
| 149     | 6695            | 28.6                  | 320                 | Pass        |
| 181     | 6855            | 36.54                 | 320                 | Pass        |
| 185     | 6875            | 34.59                 | 320                 | Pass        |
| 209     | 6995            | 21.53                 | 320                 | Pass        |
| 233     | 7115            | 21.08                 | 320                 | Pass        |

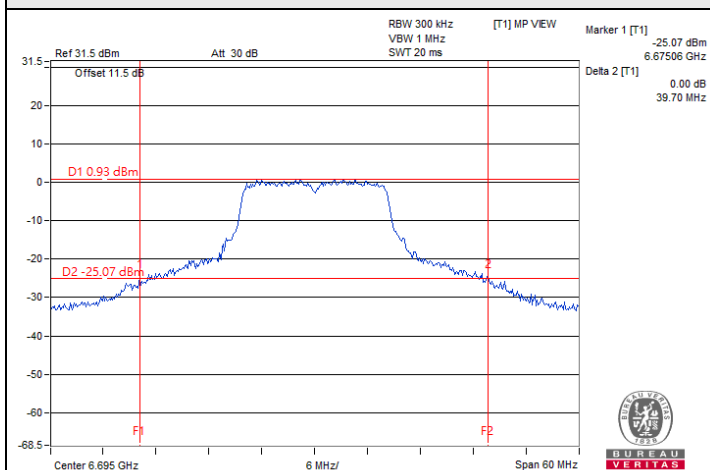
### 802.11ax (HE40)

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 3       | 5965            | 39.64                 | 320                 | Pass        |
| 43      | 6165            | 40.13                 | 320                 | Pass        |
| 91      | 6405            | 39.75                 | 320                 | Pass        |
| 99      | 6445            | 85.83                 | 320                 | Pass        |
| 107     | 6485            | 86.73                 | 320                 | Pass        |
| 115     | 6525            | 88.38                 | 320                 | Pass        |
| 123     | 6565            | 89.43                 | 320                 | Pass        |
| 155     | 6725            | 94.55                 | 320                 | Pass        |
| 179     | 6845            | 99.19                 | 320                 | Pass        |
| 187     | 6885            | 98.37                 | 320                 | Pass        |
| 211     | 7005            | 56.8                  | 320                 | Pass        |
| 227     | 7085            | 60.01                 | 320                 | Pass        |

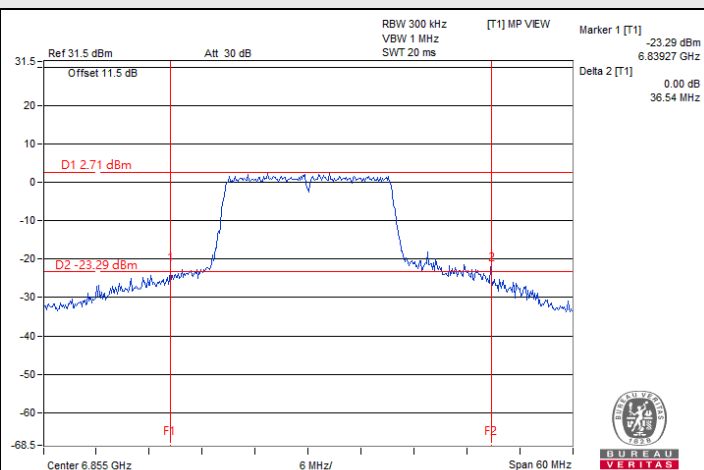
### 802.11ax (HE80)

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | Maximum Limit (MHz) | Test Result |
|---------|-----------------|-----------------------|---------------------|-------------|
| 7       | 5985            | 171.19                | 320                 | Pass        |
| 39      | 6145            | 168.86                | 320                 | Pass        |
| 87      | 6385            | 175.94                | 320                 | Pass        |
| 103     | 6465            | 203.55                | 320                 | Pass        |
| 119     | 6545            | 198.25                | 320                 | Pass        |
| 151     | 6705            | 206.63                | 320                 | Pass        |
| 183     | 6865            | 199.53                | 320                 | Pass        |
| 199     | 6945            | 222.24                | 320                 | Pass        |
| 215     | 7025            | 192.9                 | 320                 | Pass        |

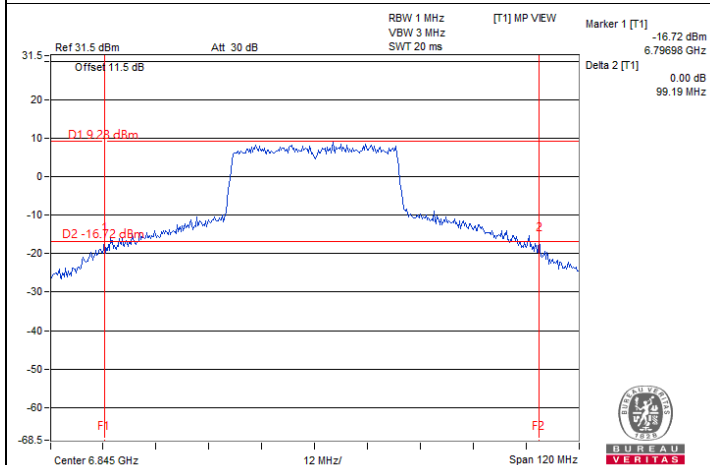
## Spectrum Plot of Maximum Value



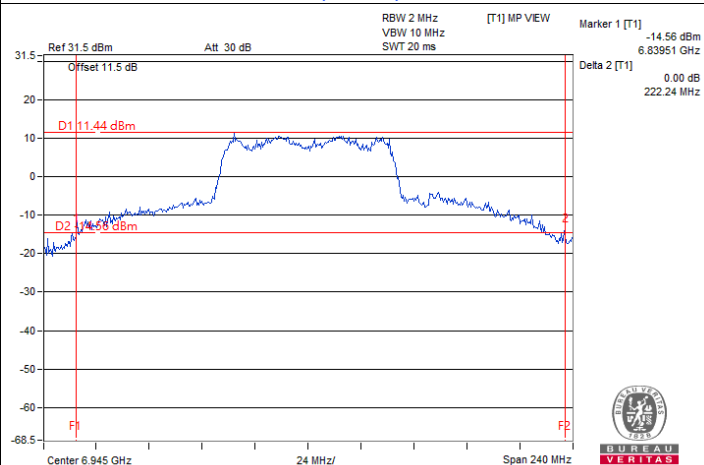
802.11a : CH 149



802.11ax (HE20) : CH 181



802.11ax (HE40) : CH 179



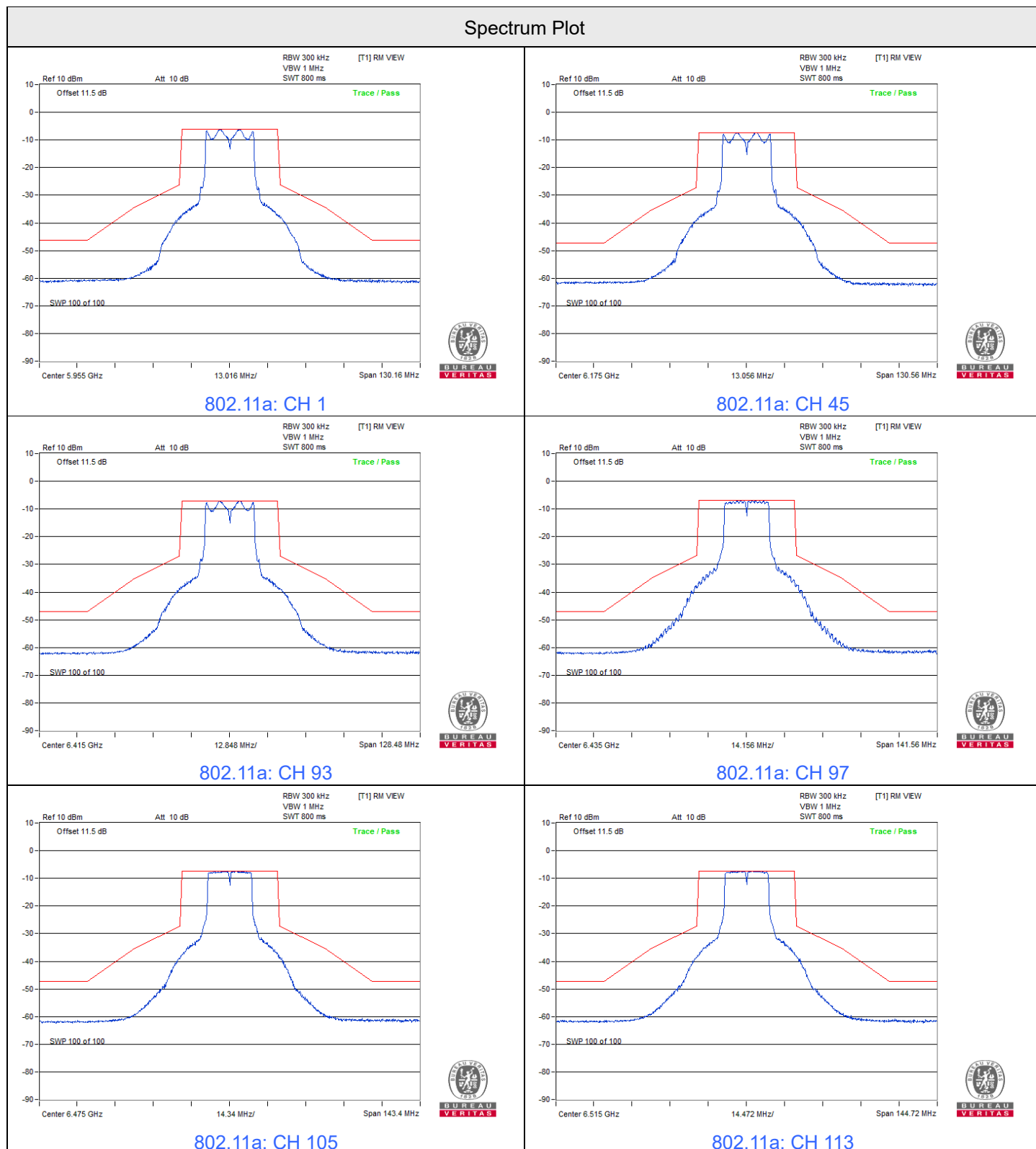
802.11ax (HE80) : CH 199

## 7.4 In-Band Emission Mask

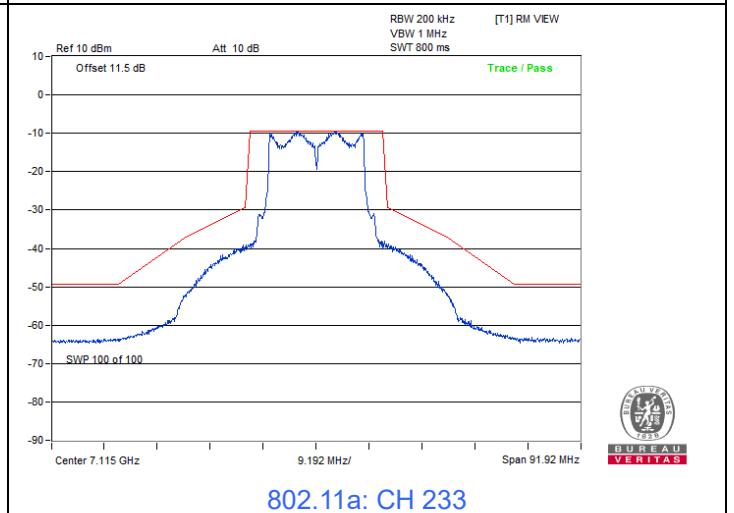
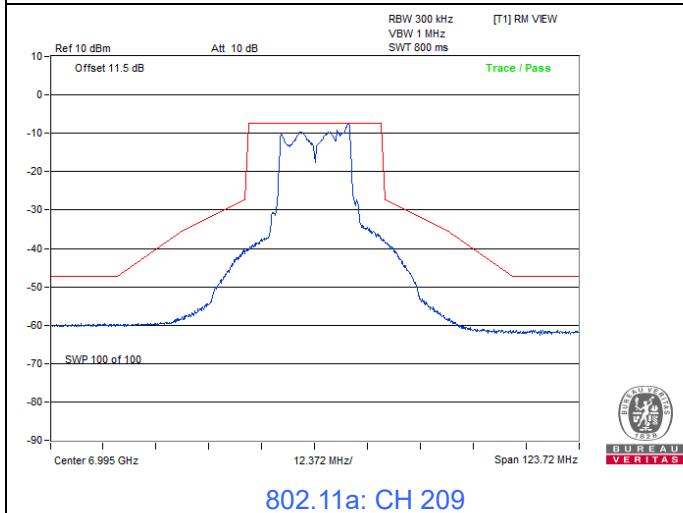
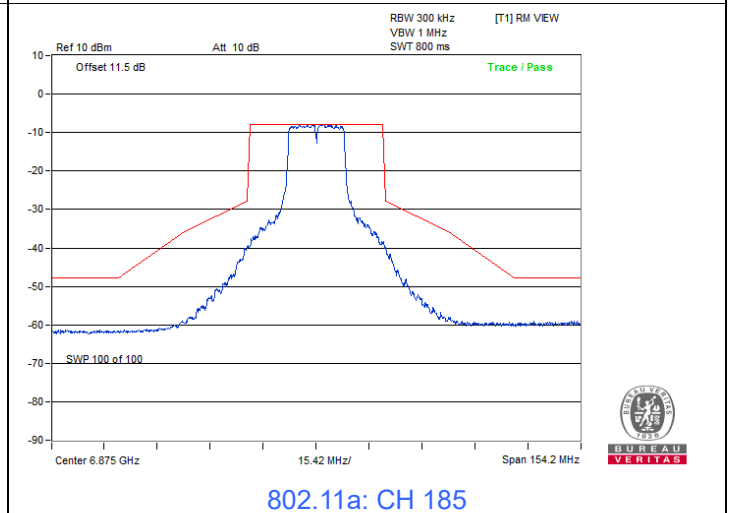
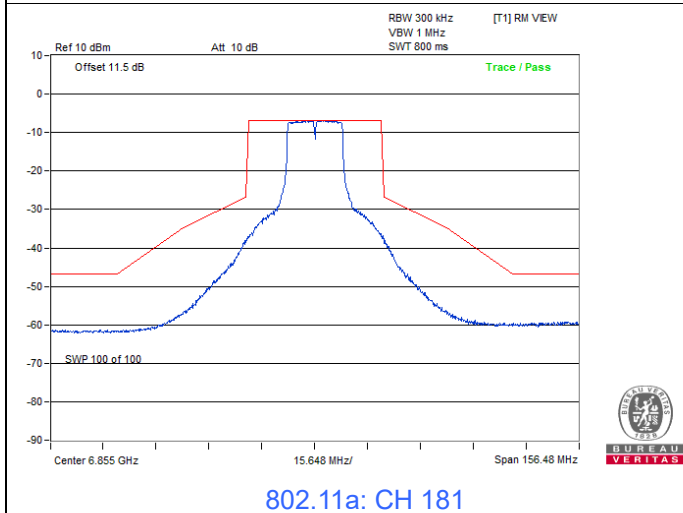
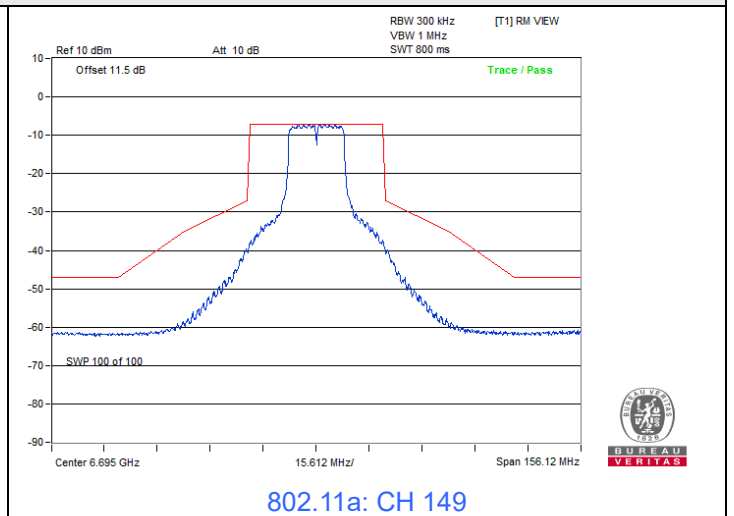
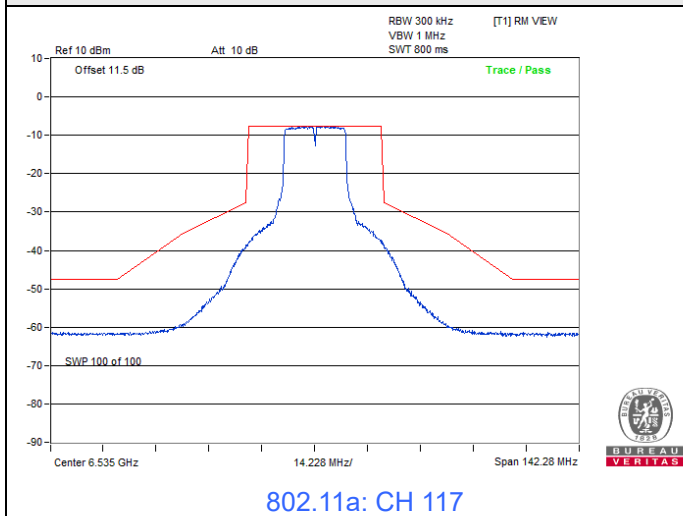
|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

### Mode A

#### 802.11a

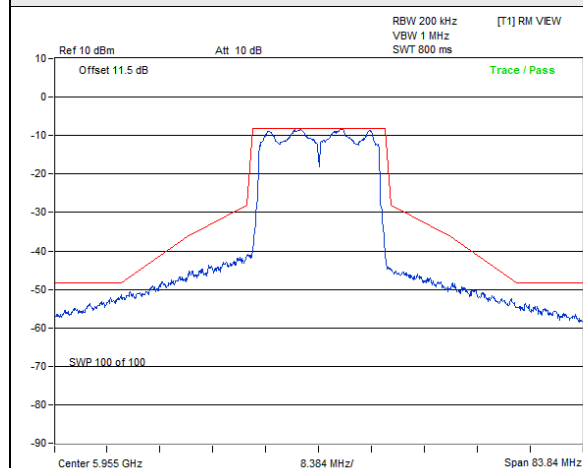


## Spectrum Plot

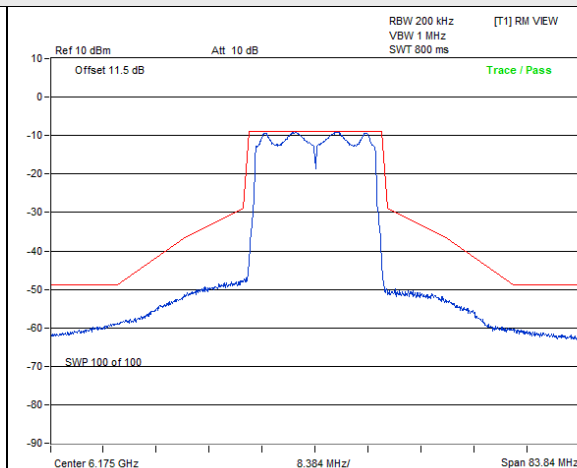


## 802.11ax (HE20)

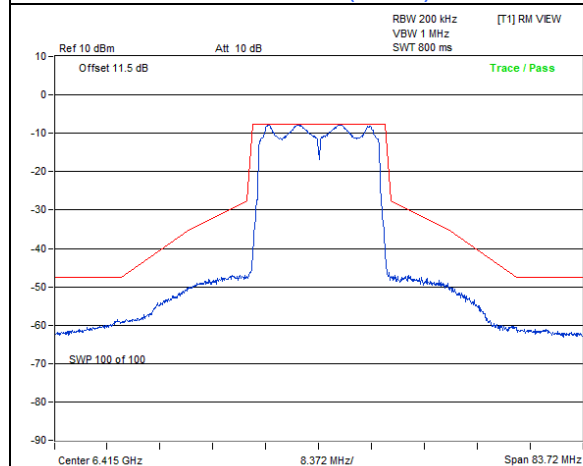
### Spectrum Plot



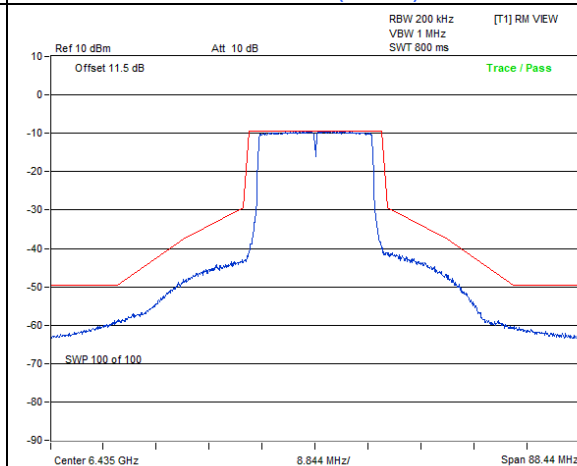
802.11ax (HE20): CH 1



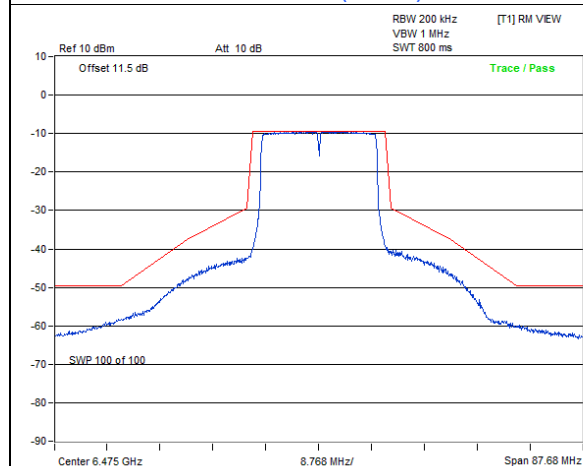
802.11ax (HE20): CH 45



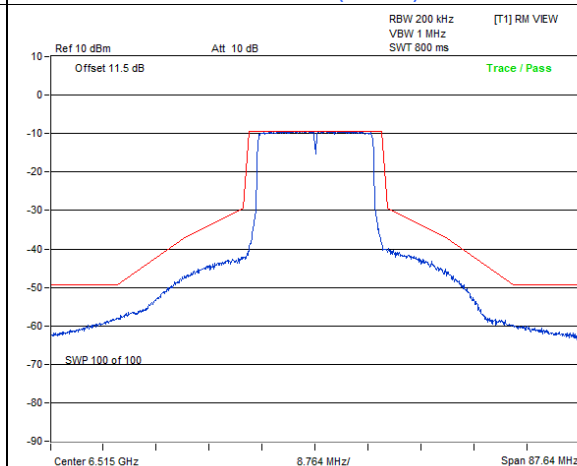
802.11ax (HE20): CH 93



802.11ax (HE20): CH 97

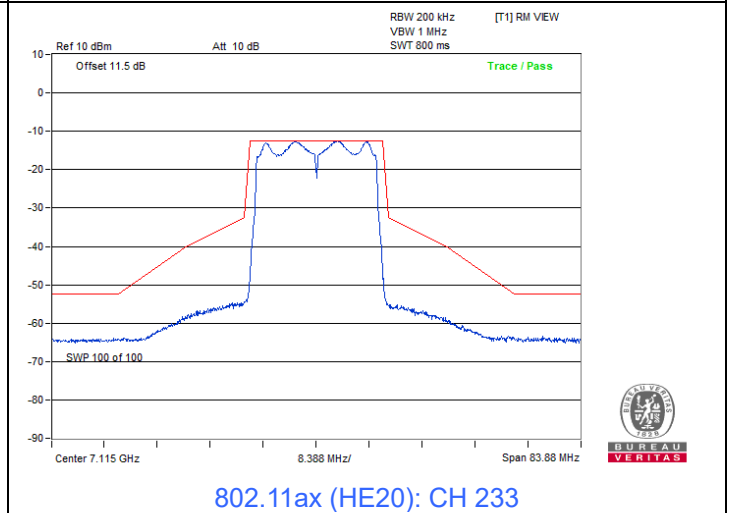
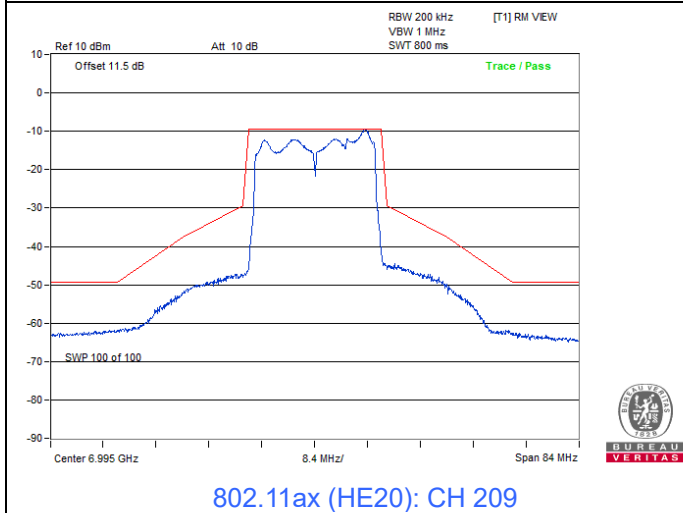
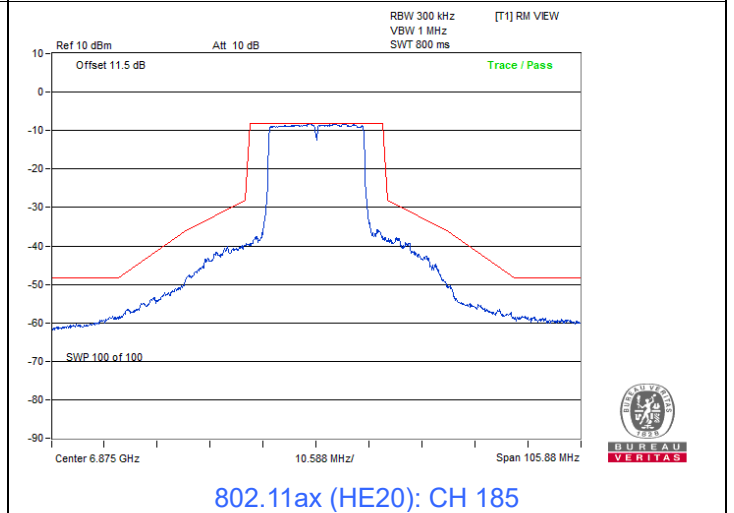
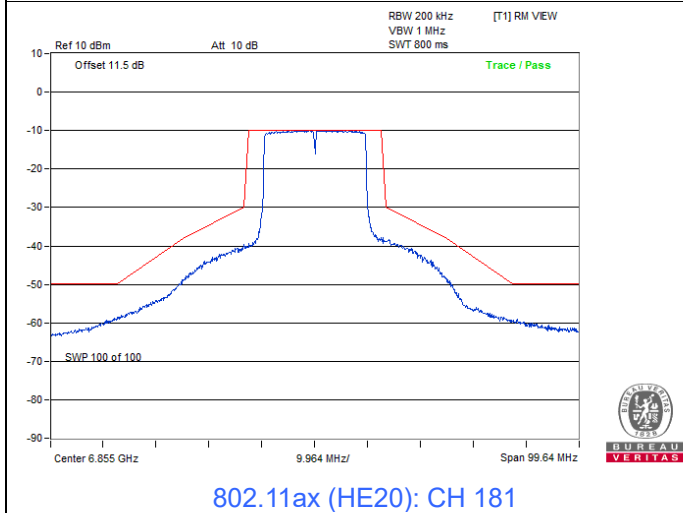
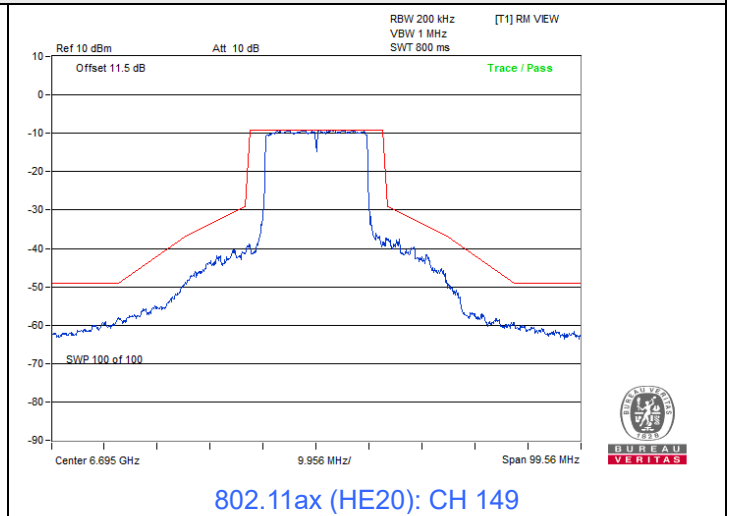
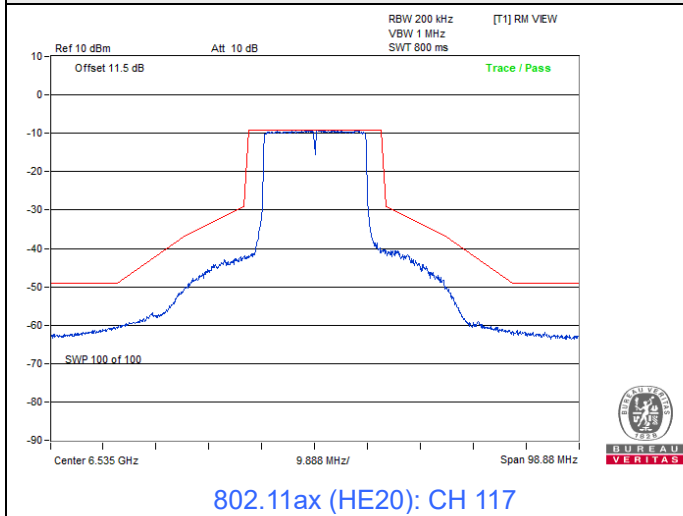


802.11ax (HE20): CH 105



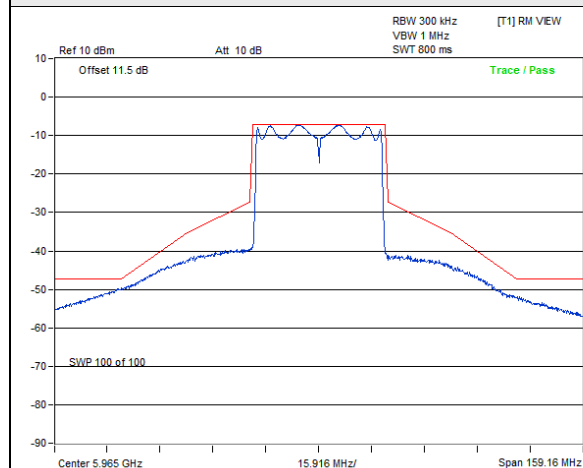
802.11ax (HE20): CH 113

## Spectrum Plot

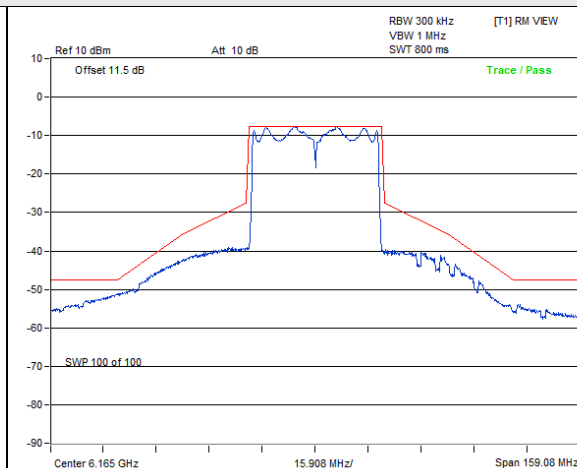


## 802.11ax (HE40)

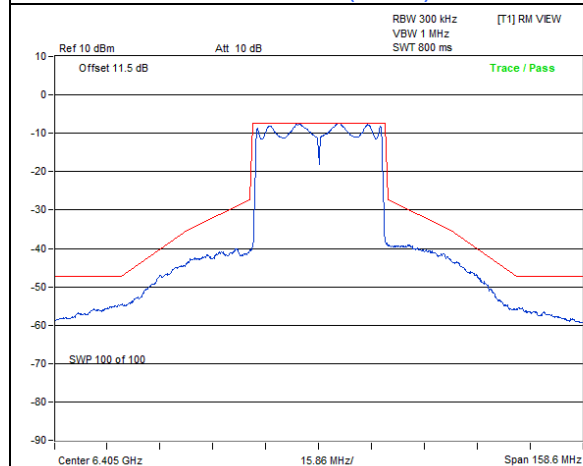
### Spectrum Plot



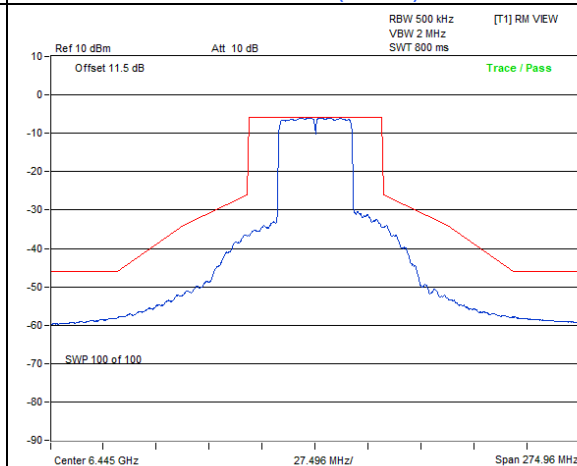
802.11ax (HE40): CH 3



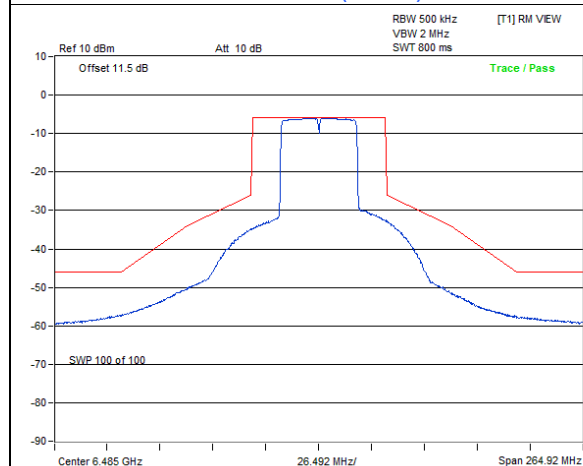
802.11ax (HE40): CH 43



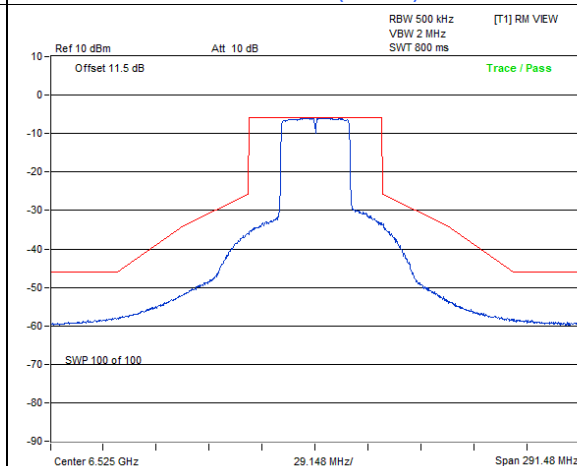
802.11ax (HE40): CH 91



802.11ax (HE40): CH 99

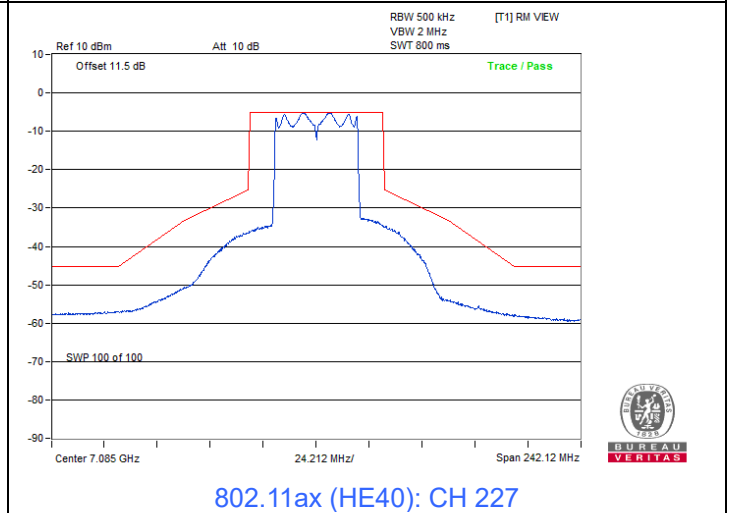
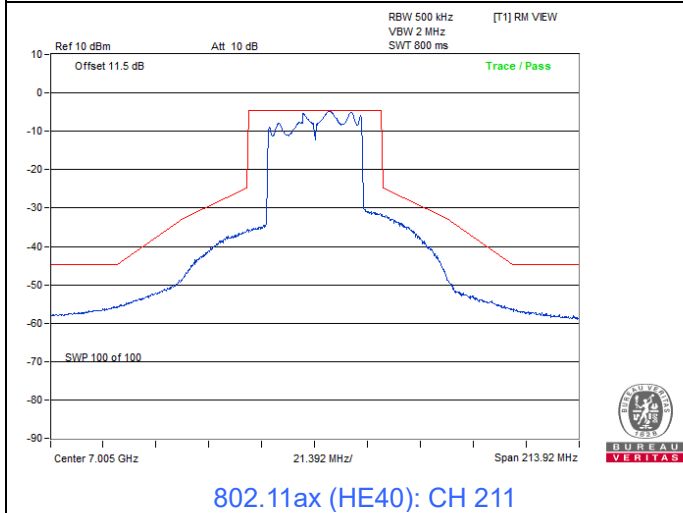
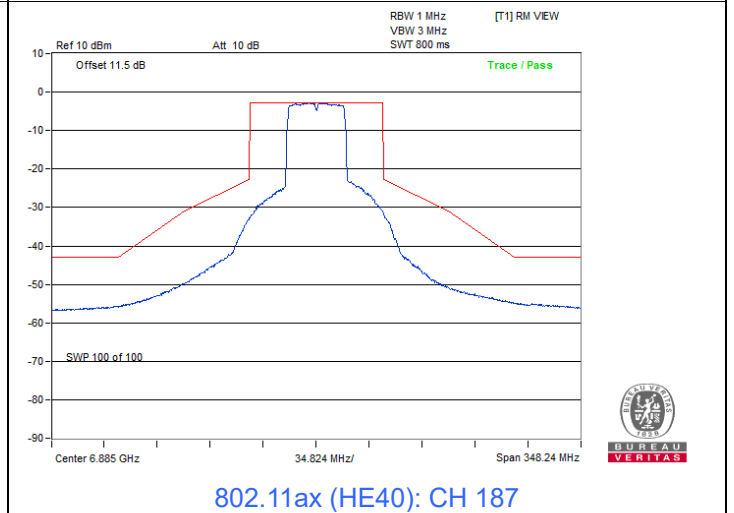
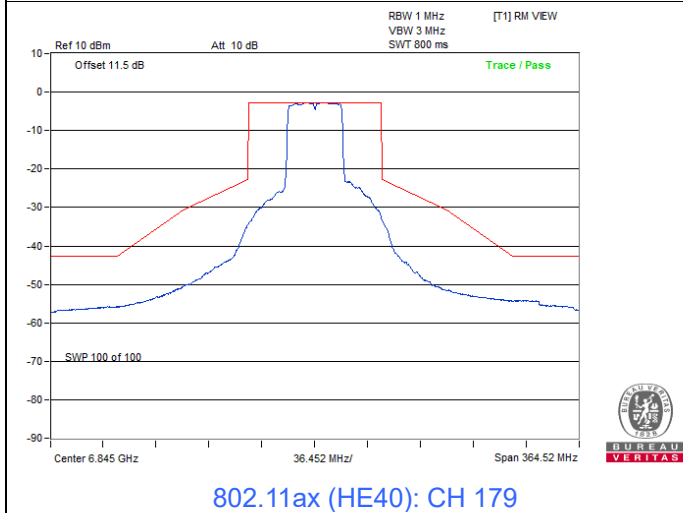
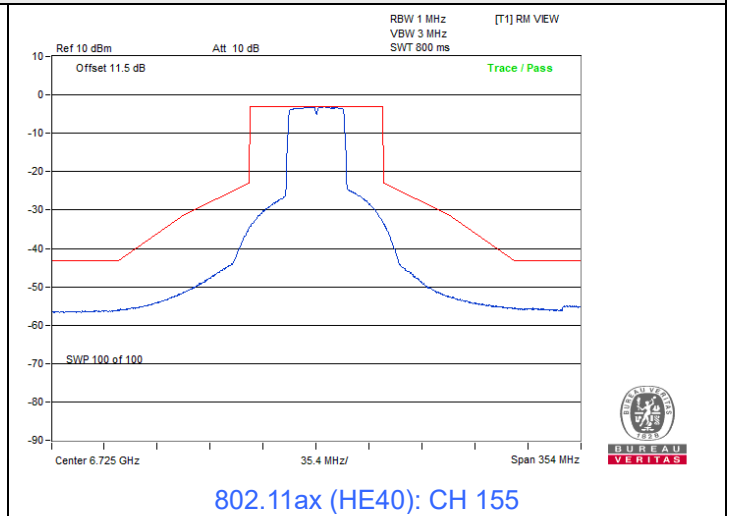
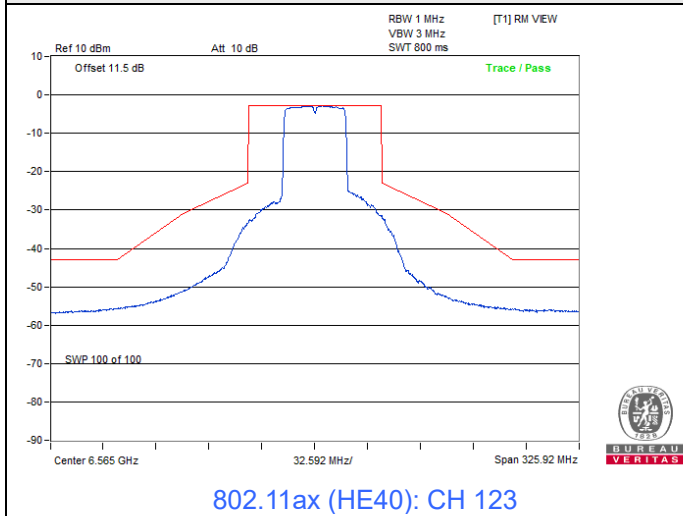


802.11ax (HE40): CH 107



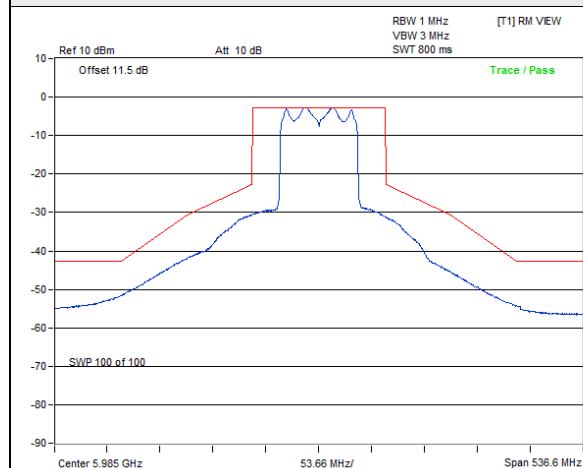
802.11ax (HE40): CH 115

## Spectrum Plot

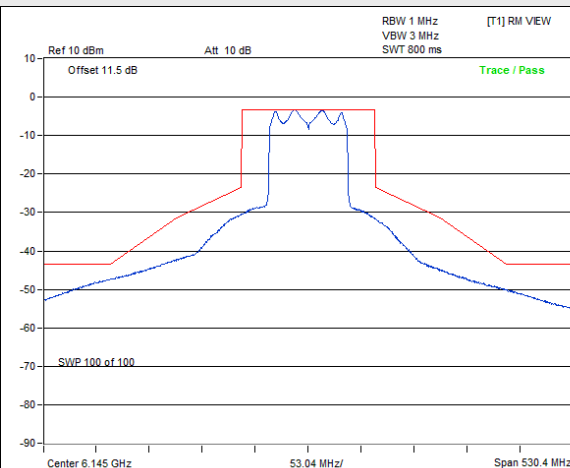


## 802.11ax (HE80)

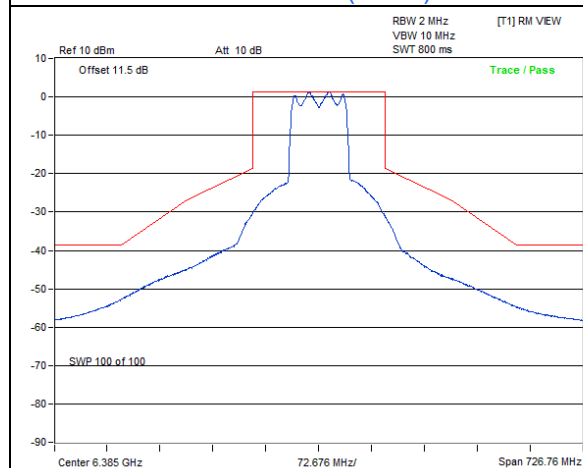
### Spectrum Plot



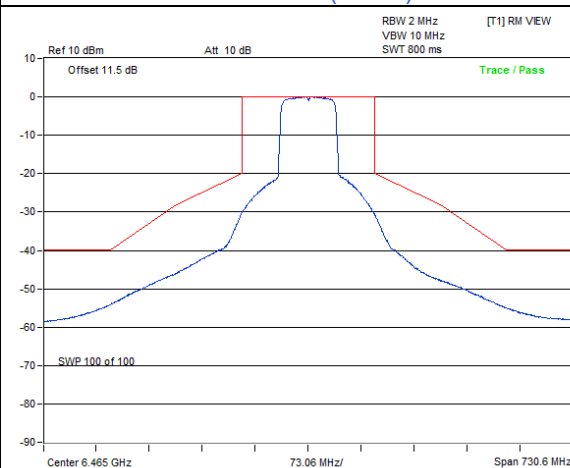
802.11ax (HE80): CH 7



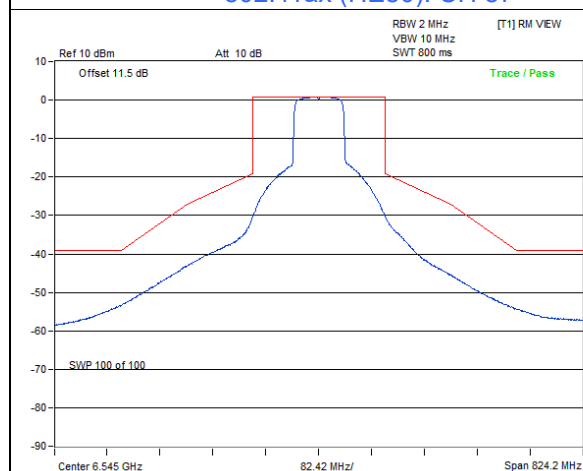
802.11ax (HE80): CH 39



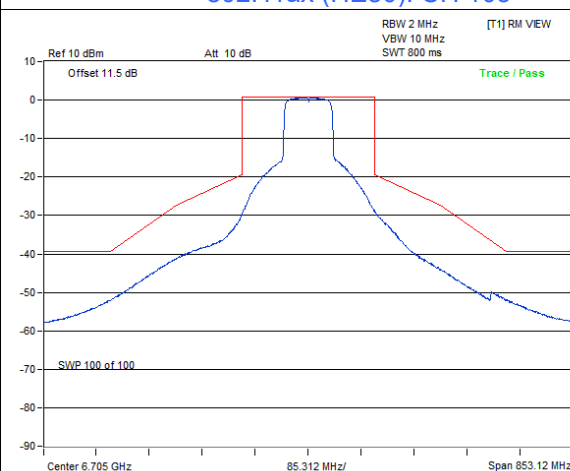
802.11ax (HE80): CH 87



802.11ax (HE80): CH 103



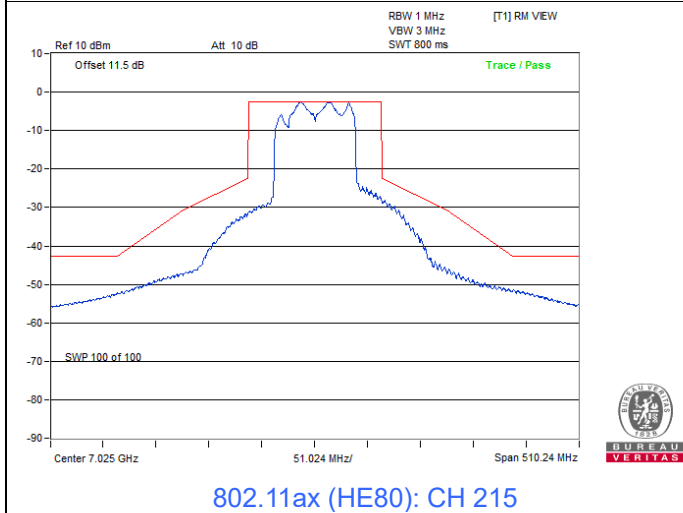
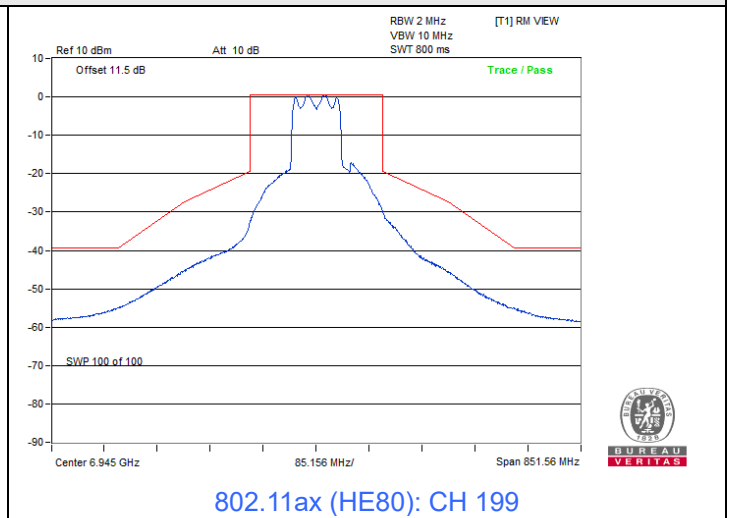
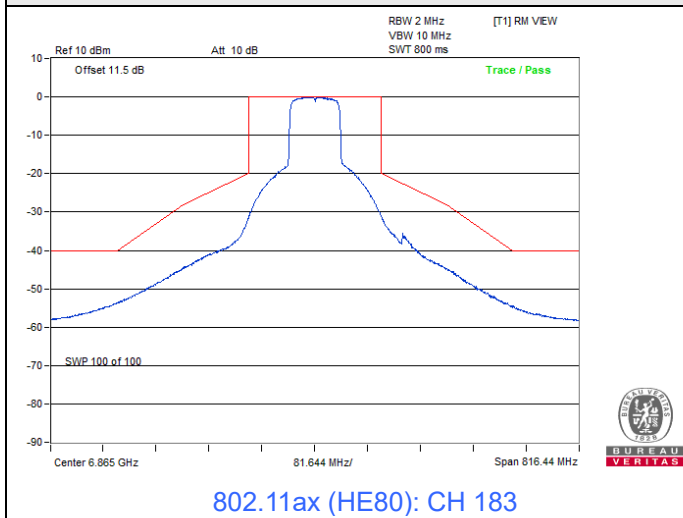
802.11ax (HE80): CH 119



802.11ax (HE80): CH 151



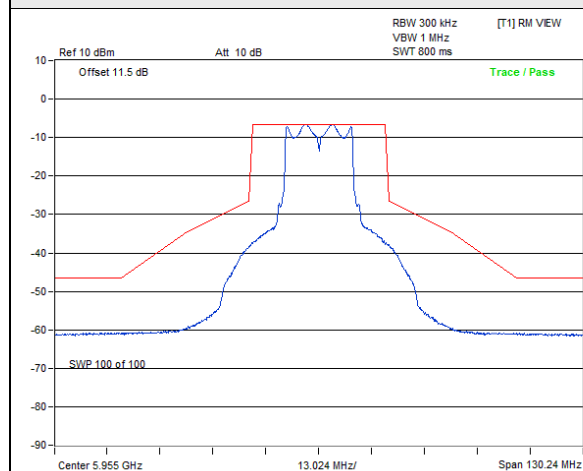
## Spectrum Plot



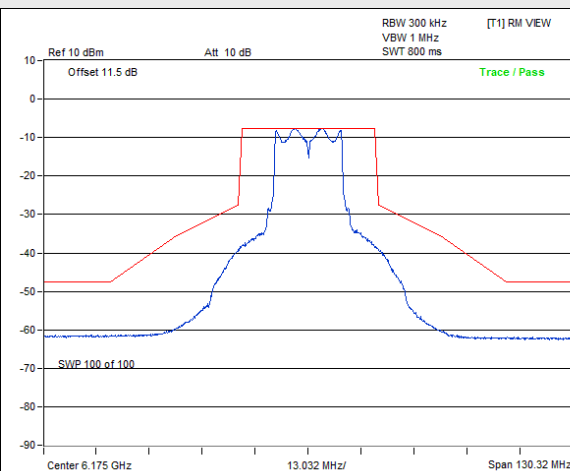
## Mode B

### 802.11a

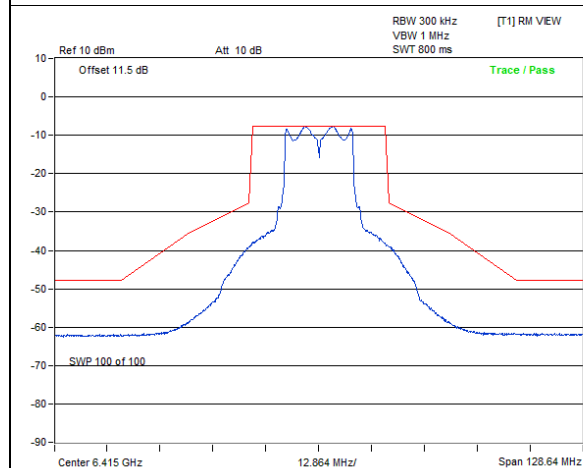
#### Spectrum Plot



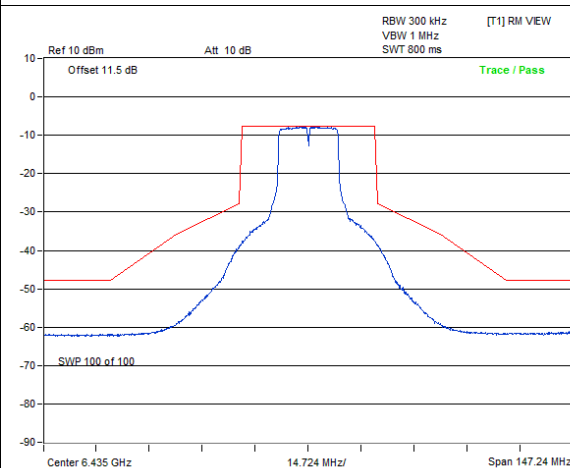
802.11a : CH 1



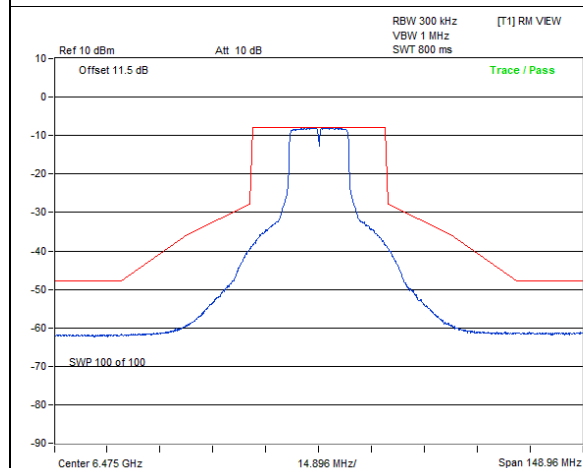
802.11a : CH 45



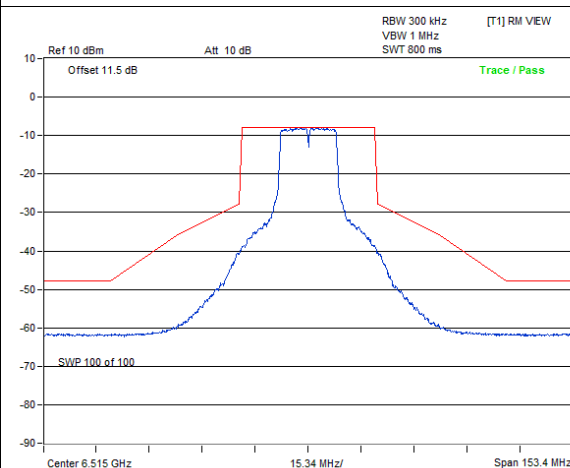
802.11a : CH 93



802.11a : CH 97

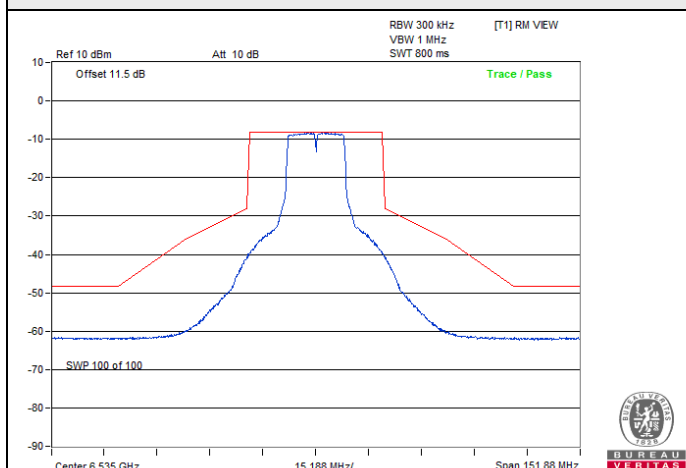


802.11a : CH 105

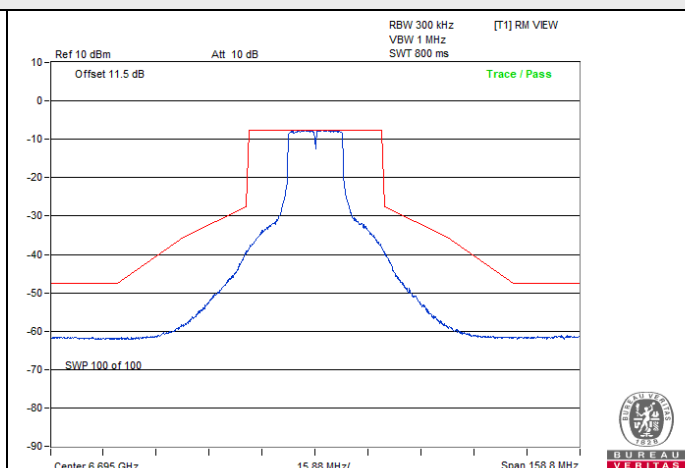


802.11a : CH 113

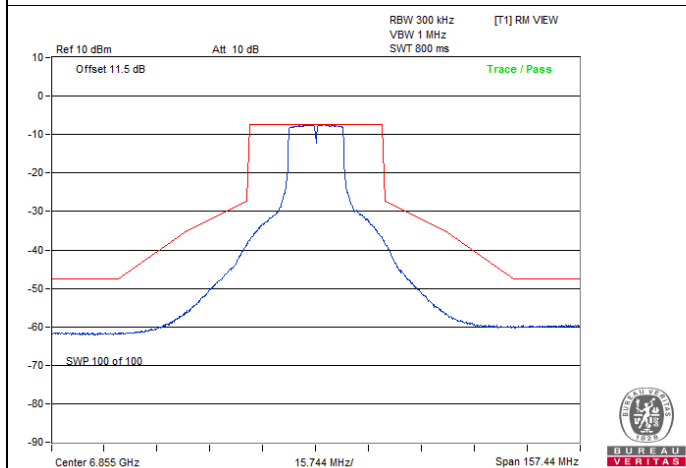
# Spectrum Plot



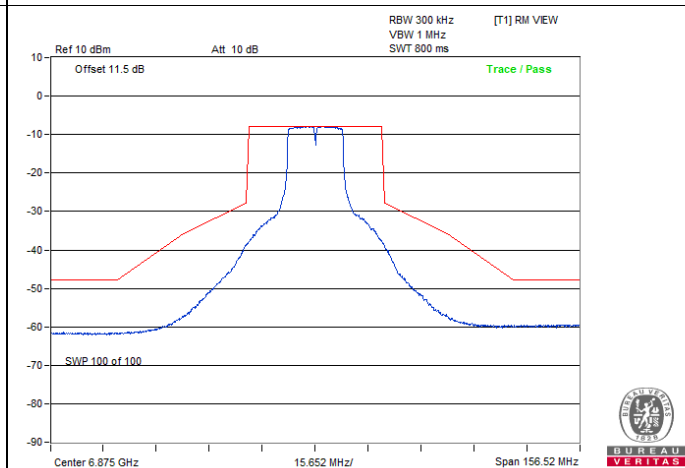
802.11a : CH 117



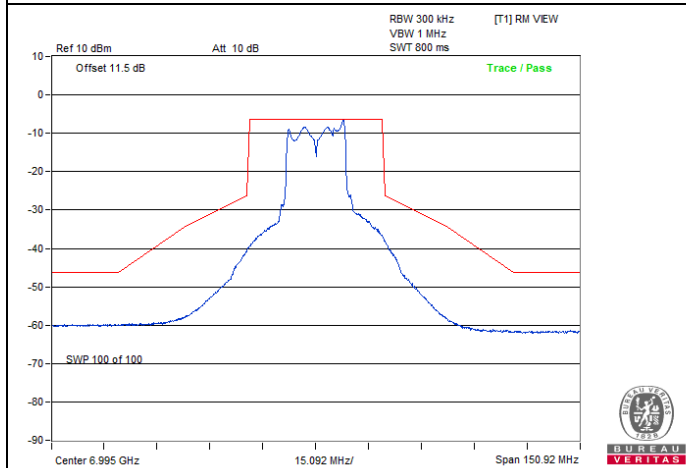
802.11a : CH 149



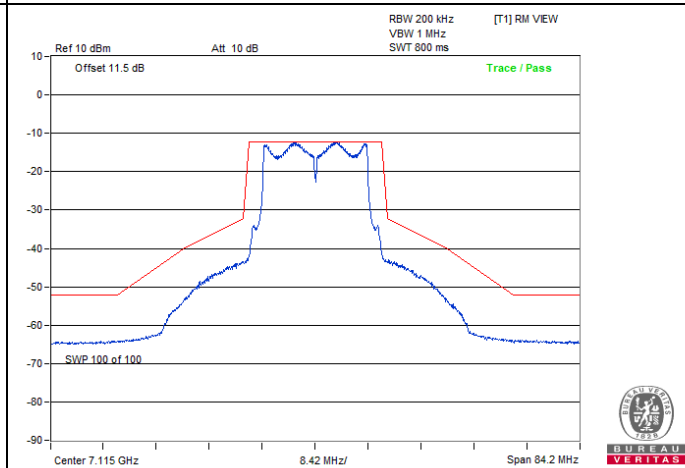
802.11a : CH 181



802.11a : CH 185



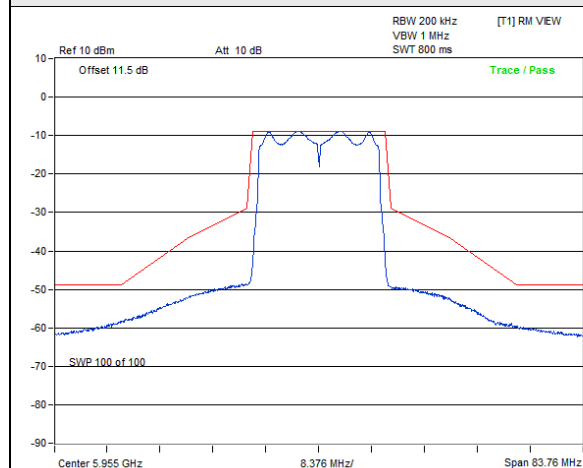
802.11a : CH 209



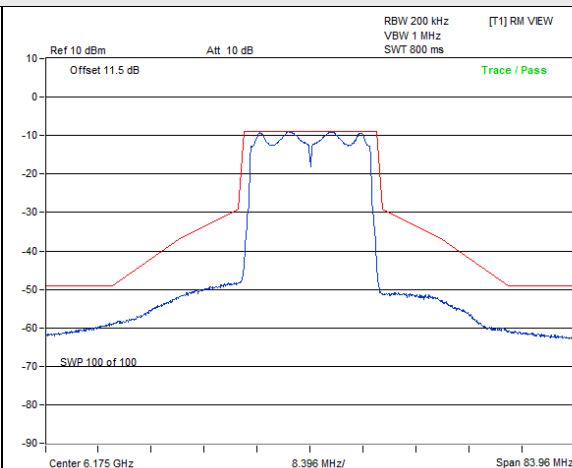
802.11a : CH 233

## 802.11ax (HE20)

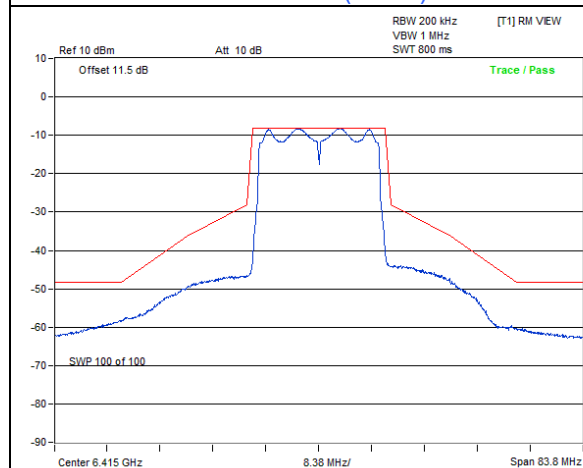
### Spectrum Plot



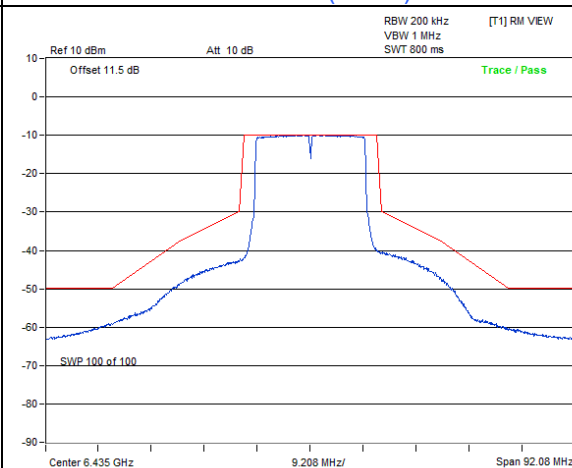
802.11ax (HE20) : CH 1



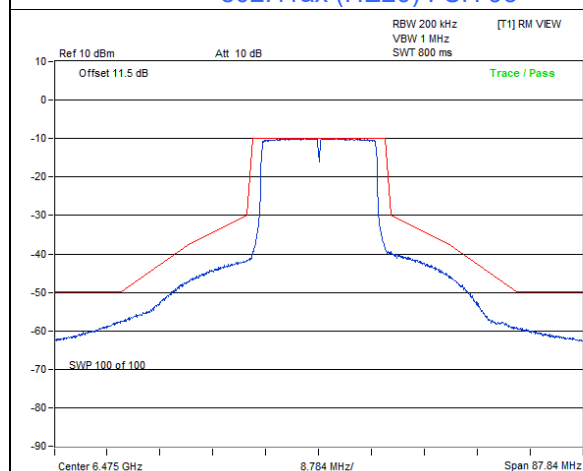
802.11ax (HE20) : CH 45



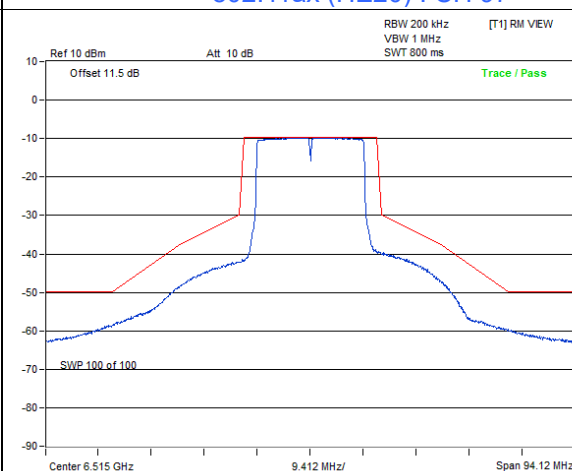
802.11ax (HE20) : CH 93



802.11ax (HE20) : CH 97



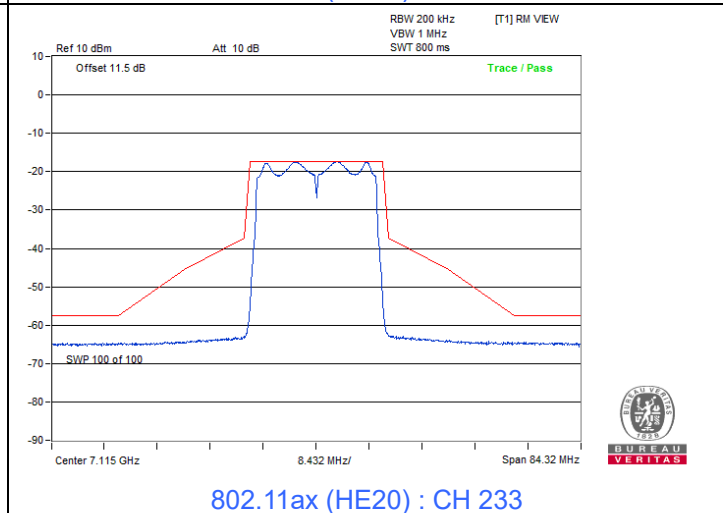
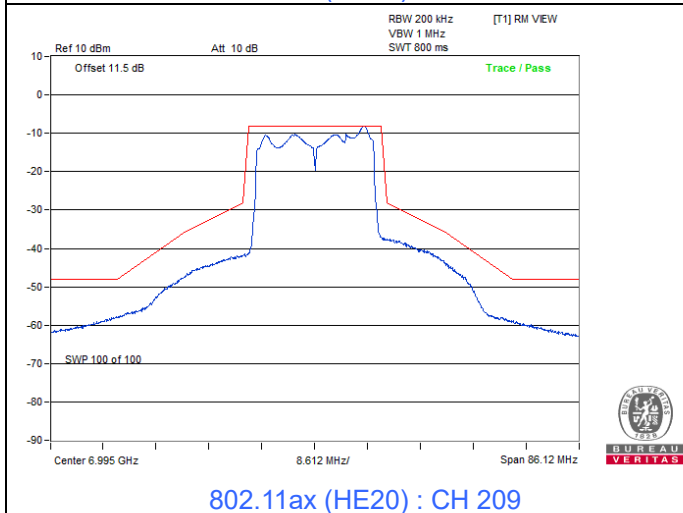
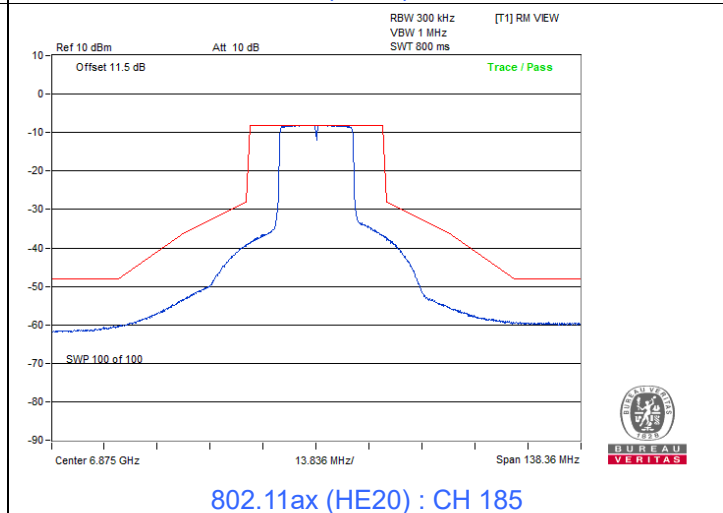
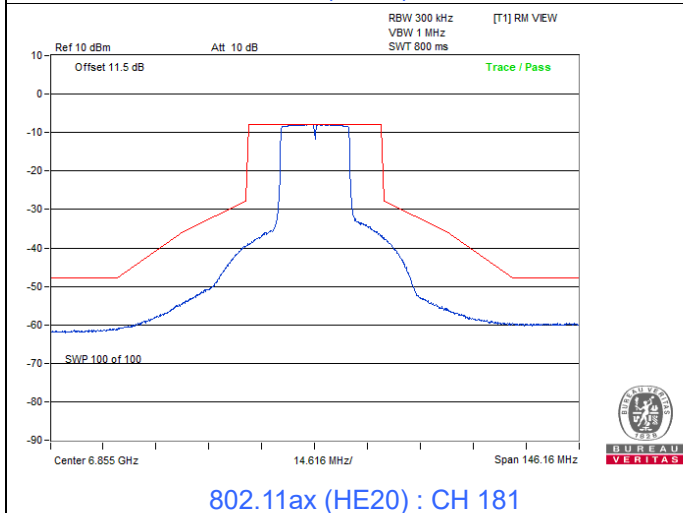
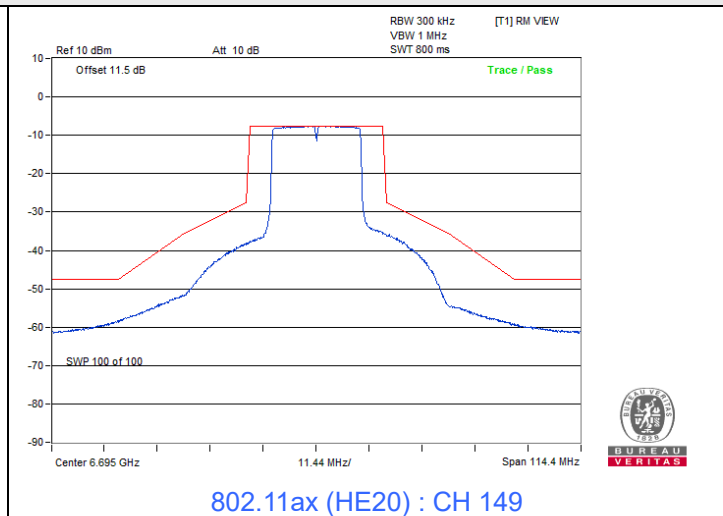
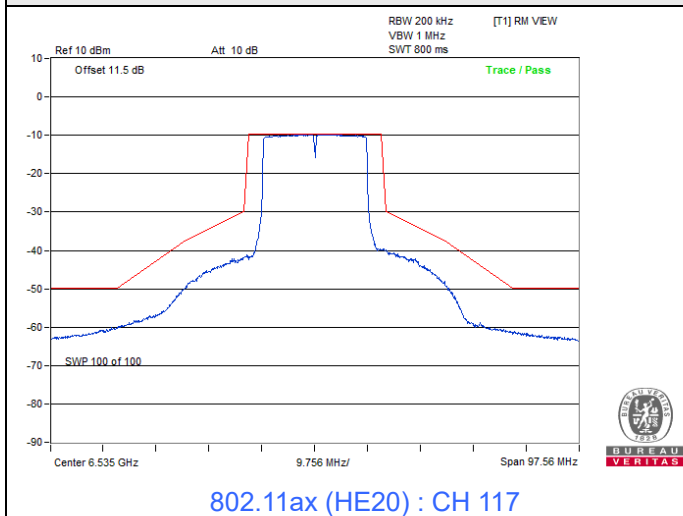
802.11ax (HE20) : CH 105



802.11ax (HE20) : CH 113

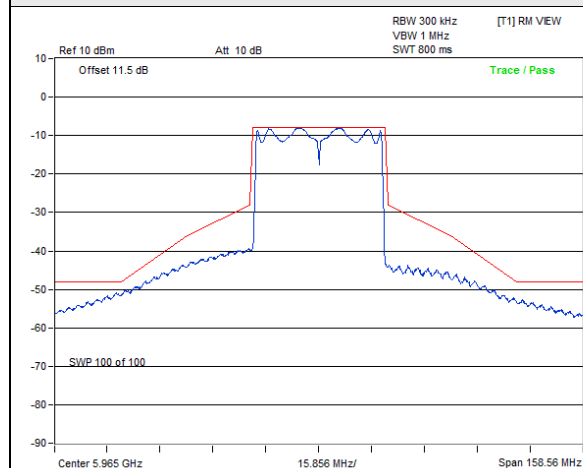


## Spectrum Plot

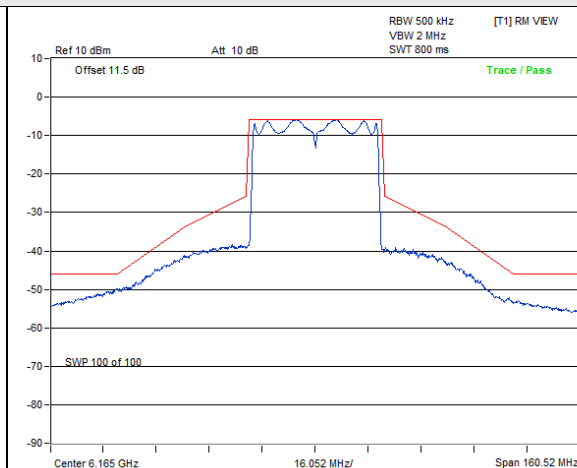


## 802.11ax (HE40)

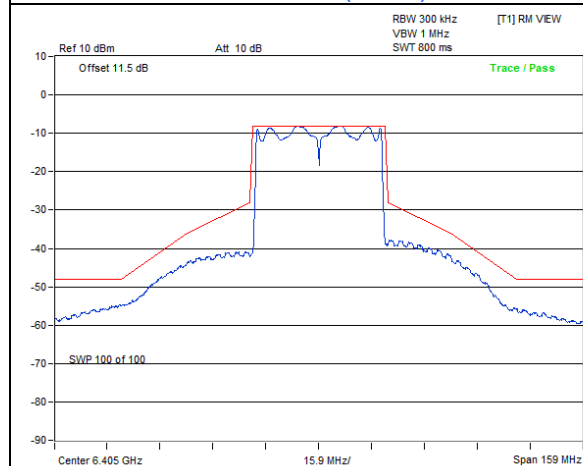
### Spectrum Plot



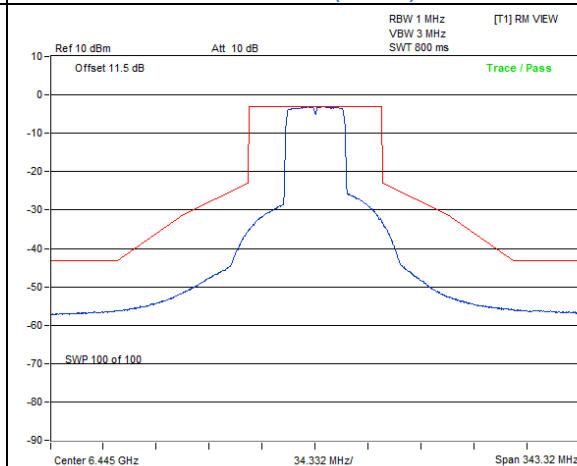
802.11ax (HE40) : CH 3



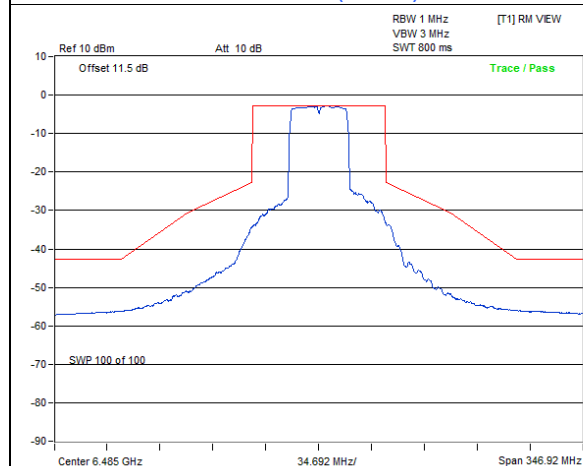
802.11ax (HE40) : CH 43



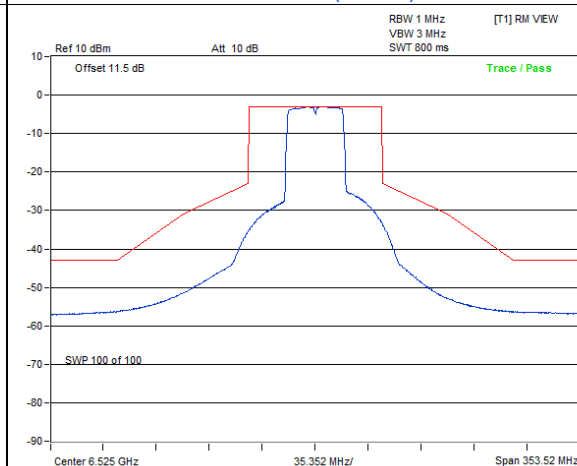
802.11ax (HE40) : CH 91



802.11ax (HE40) : CH 99

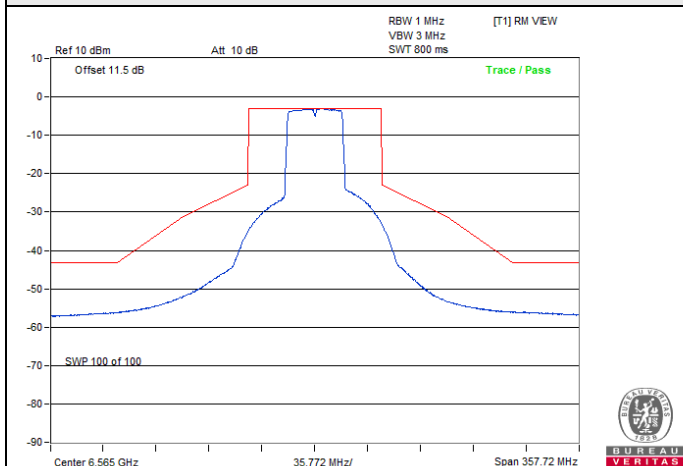


802.11ax (HE40) : CH 107

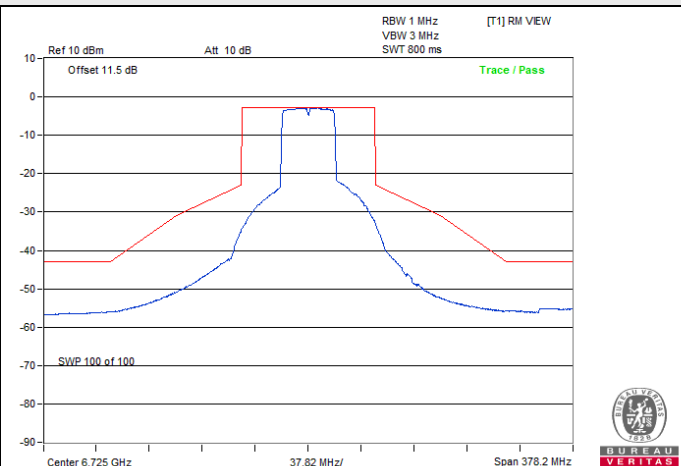


802.11ax (HE40) : CH 115

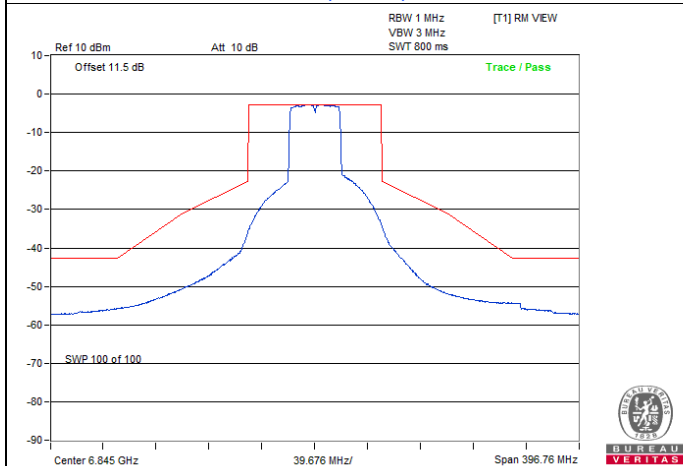
## Spectrum Plot



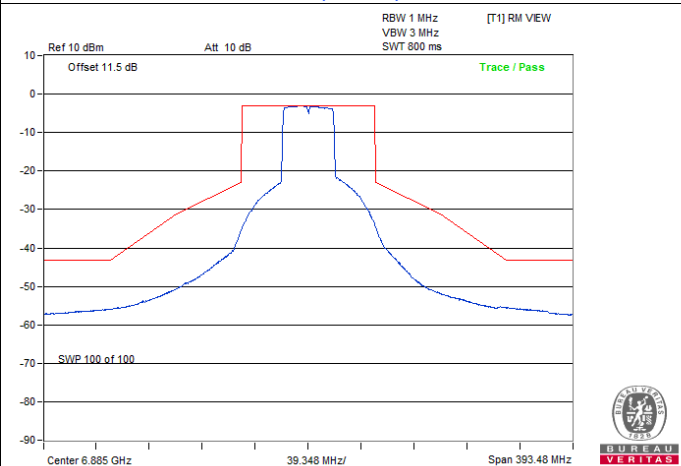
802.11ax (HE40) : CH 123



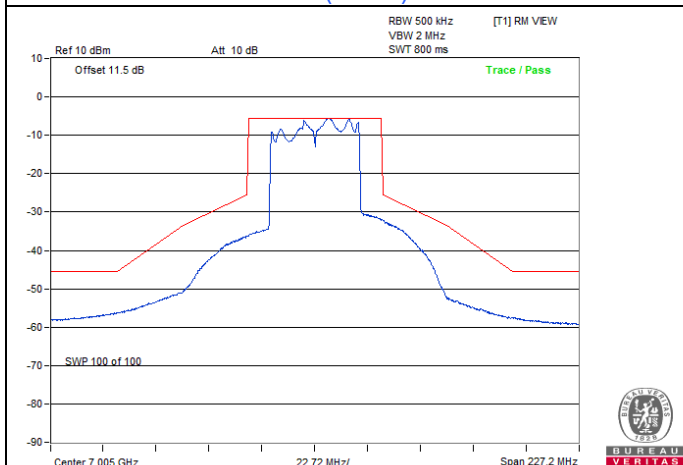
802.11ax (HE40) : CH 155



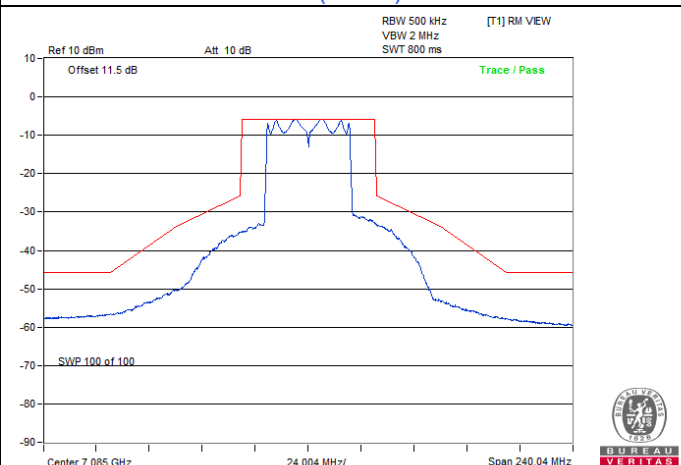
802.11ax (HE40) : CH 179



802.11ax (HE40) : CH 187



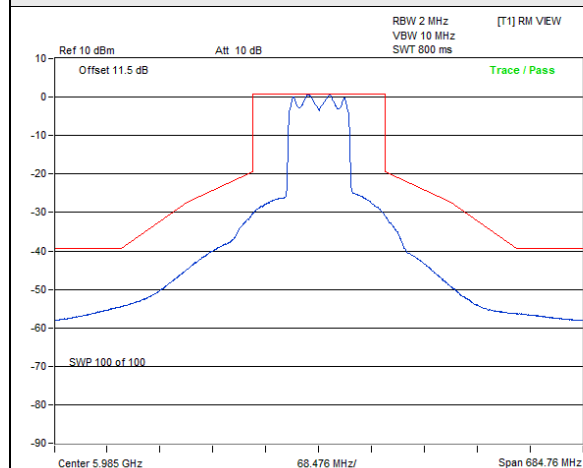
802.11ax (HE40) : CH 211



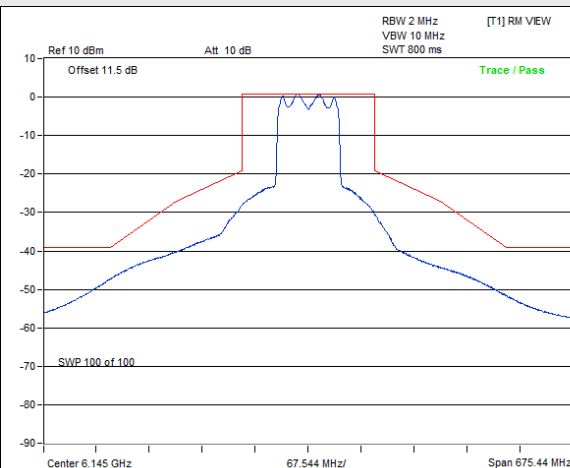
802.11ax (HE40) : CH 227

## 802.11ax (HE80)

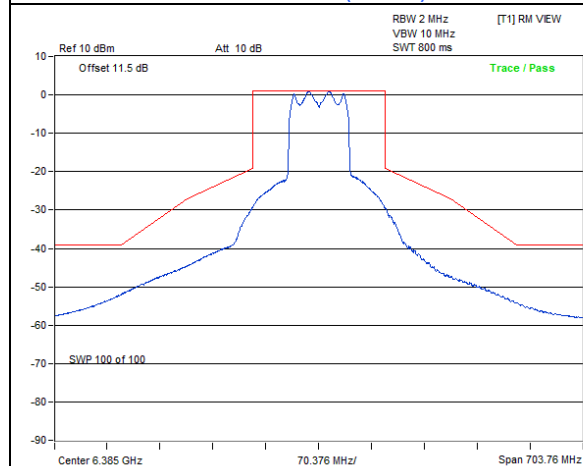
### Spectrum Plot



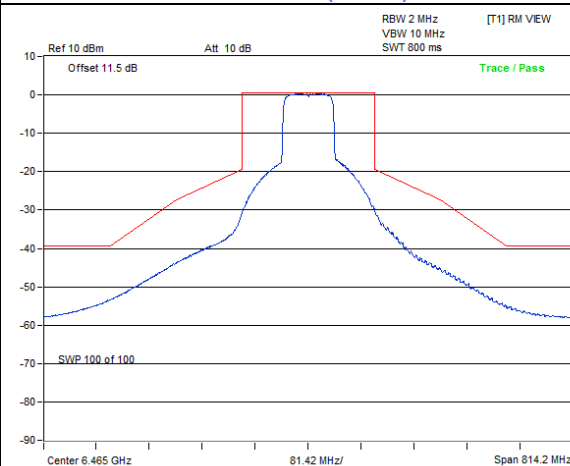
802.11ax (HE80) : CH 7



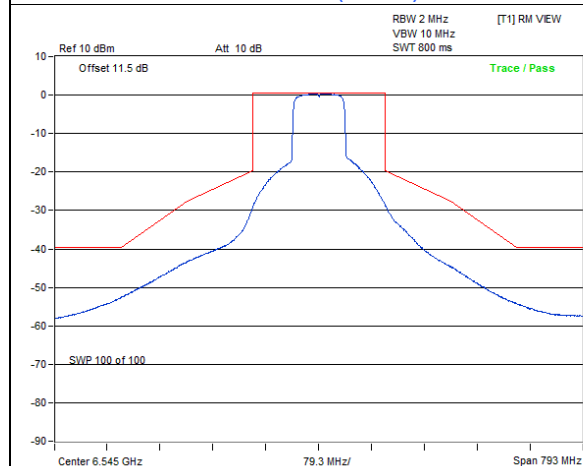
802.11ax (HE80) : CH 39



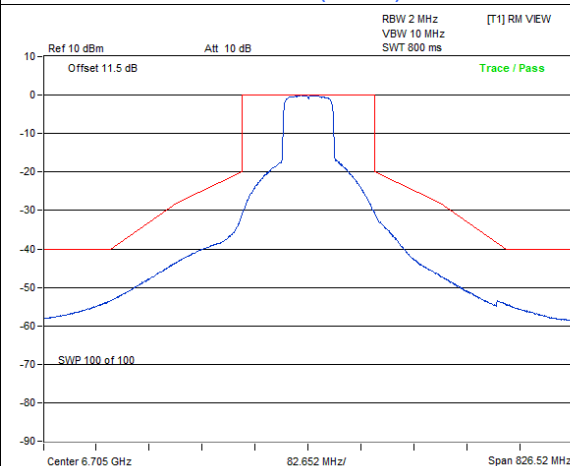
802.11ax (HE80) : CH 87



802.11ax (HE80) : CH 103



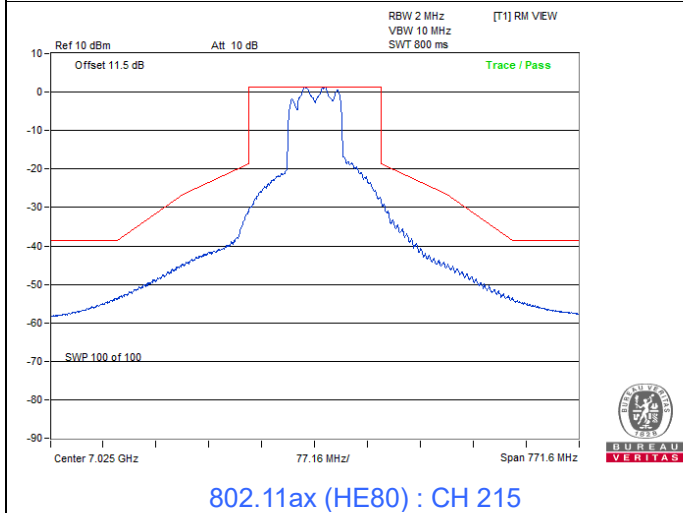
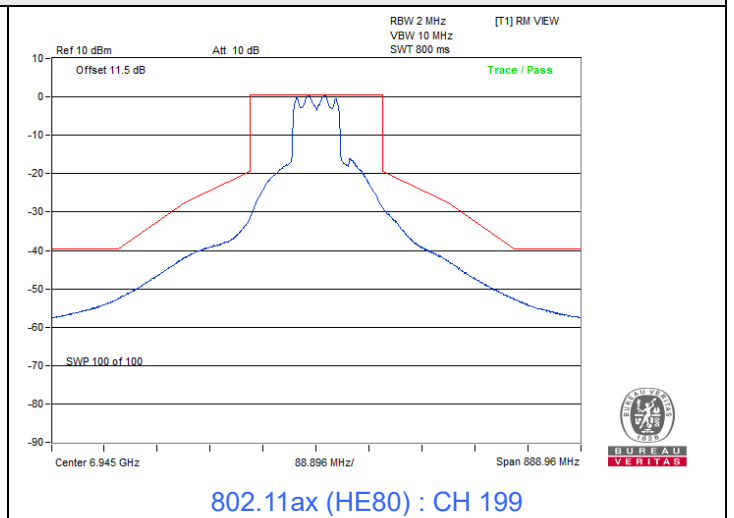
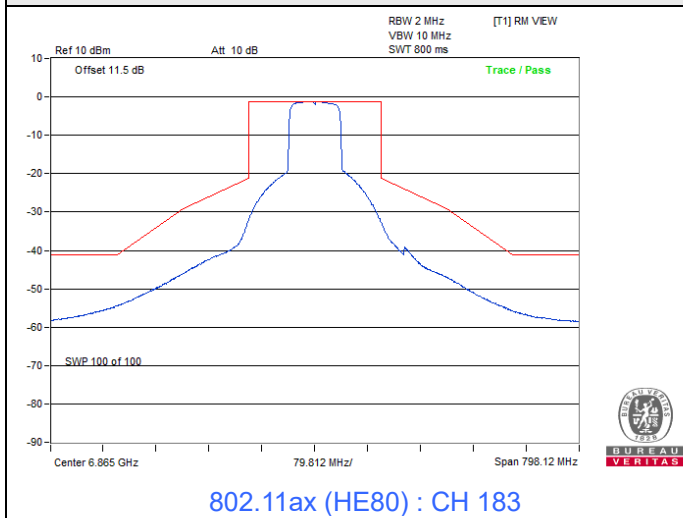
802.11ax (HE80) : CH 119



802.11ax (HE80) : CH 151



## Spectrum Plot



## 7.5 Occupied Bandwidth

|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

### Mode A

#### 802.11a

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 1       | 5955            | 17.74                    |
| 45      | 6175            | 17.64                    |
| 93      | 6415            | 17.64                    |
| 97      | 6435            | 18.48                    |
| 105     | 6475            | 18.36                    |
| 113     | 6515            | 18.48                    |
| 117     | 6535            | 18.48                    |
| 149     | 6695            | 18.84                    |
| 181     | 6855            | 19.56                    |
| 185     | 6875            | 18.48                    |
| 209     | 6995            | 17.4                     |
| 233     | 7115            | 17.04                    |

#### 802.11ax (HE20)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 1       | 5955            | 19.2                     |
| 45      | 6175            | 19.2                     |
| 93      | 6415            | 19.2                     |
| 97      | 6435            | 19.2                     |
| 105     | 6475            | 19.2                     |
| 113     | 6515            | 19.32                    |
| 117     | 6535            | 19.2                     |
| 149     | 6695            | 19.44                    |
| 181     | 6855            | 19.32                    |
| 185     | 6875            | 19.32                    |
| 209     | 6995            | 19.08                    |
| 233     | 7115            | 19.08                    |

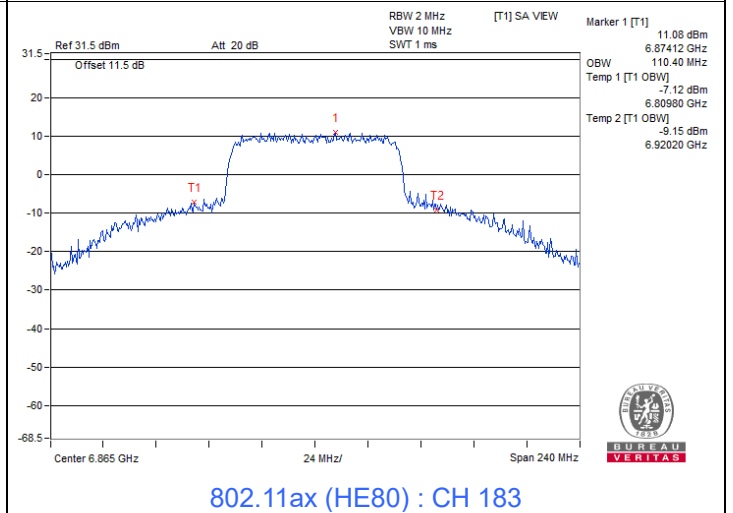
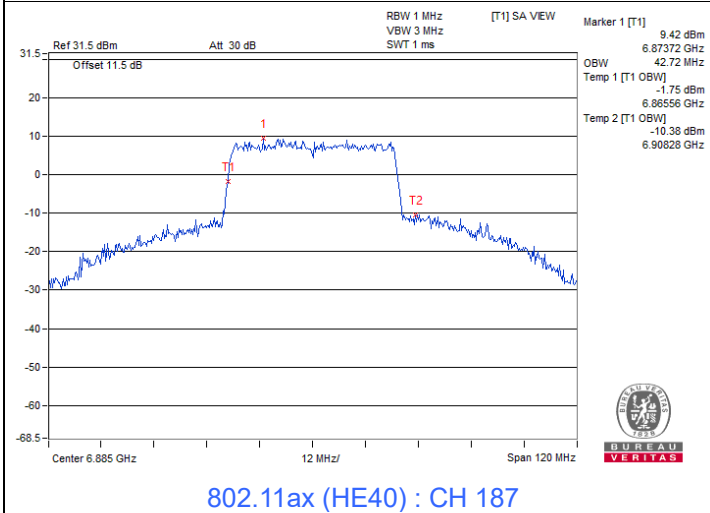
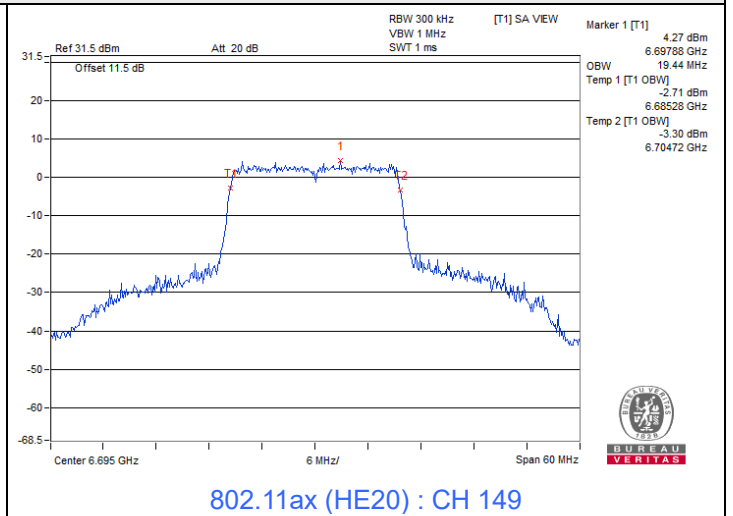
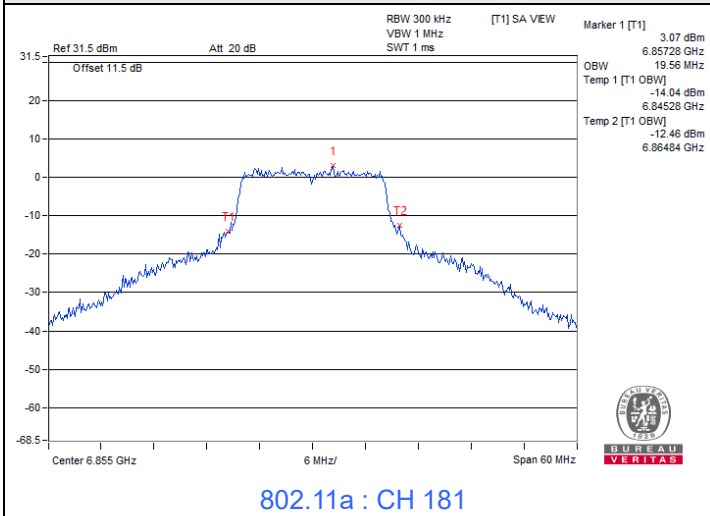
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 3       | 5965            | 38.4                     |
| 43      | 6165            | 38.4                     |
| 91      | 6405            | 38.4                     |
| 99      | 6445            | 38.4                     |
| 107     | 6485            | 38.4                     |
| 115     | 6525            | 38.64                    |
| 123     | 6565            | 38.64                    |
| 155     | 6725            | 38.88                    |
| 179     | 6845            | 41.76                    |
| 187     | 6885            | 42.72                    |
| 211     | 7005            | 38.4                     |
| 227     | 7085            | 38.16                    |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 7       | 5985            | 78.72                    |
| 39      | 6145            | 79.2                     |
| 87      | 6385            | 80.64                    |
| 103     | 6465            | 79.2                     |
| 119     | 6545            | 92.16                    |
| 151     | 6705            | 95.04                    |
| 183     | 6865            | 110.4                    |
| 199     | 6945            | 107.52                   |
| 215     | 7025            | 77.76                    |

## Spectrum Plot of Maximum Value



|              |                |                           |              |            |           |
|--------------|----------------|---------------------------|--------------|------------|-----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 76% RH | Tested By: | Dalen Dai |
|--------------|----------------|---------------------------|--------------|------------|-----------|

## Mode B

### 802.11a

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 1       | 5955            | 17.31                    |
| 45      | 6175            | 17.52                    |
| 93      | 6415            | 17.64                    |
| 97      | 6435            | 18.72                    |
| 105     | 6475            | 18.72                    |
| 113     | 6515            | 18.36                    |
| 117     | 6535            | 18.48                    |
| 149     | 6695            | 18.6                     |
| 181     | 6855            | 18.96                    |
| 185     | 6875            | 19.56                    |
| 209     | 6995            | 18.24                    |
| 233     | 7115            | 17.28                    |

### 802.11ax (HE20)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 1       | 5955            | 19.2                     |
| 45      | 6175            | 19.2                     |
| 93      | 6415            | 19.2                     |
| 97      | 6435            | 19.44                    |
| 105     | 6475            | 19.2                     |
| 113     | 6515            | 19.44                    |
| 117     | 6535            | 19.2                     |
| 149     | 6695            | 19.32                    |
| 181     | 6855            | 19.2                     |
| 185     | 6875            | 19.2                     |
| 209     | 6995            | 19.08                    |
| 233     | 7115            | 19.2                     |

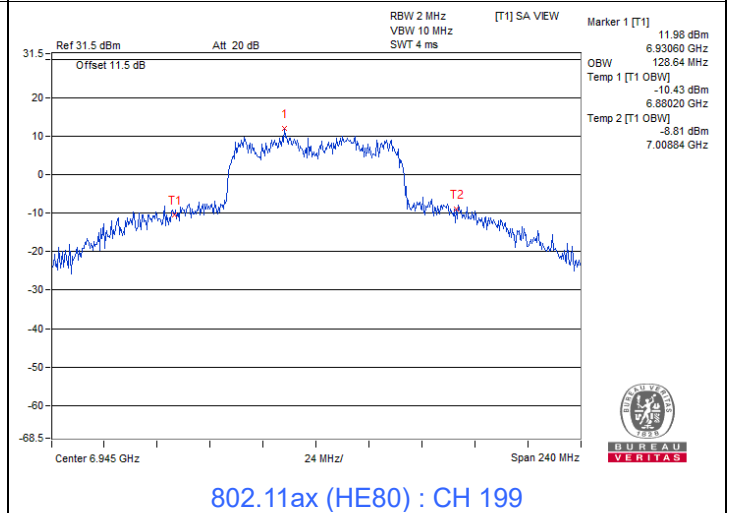
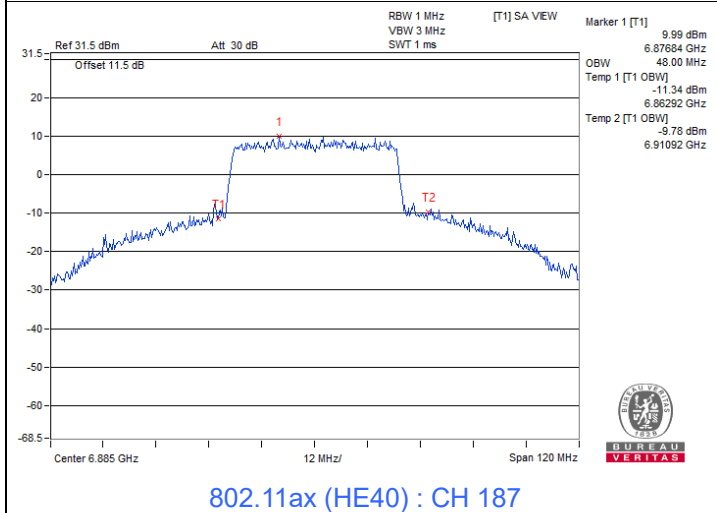
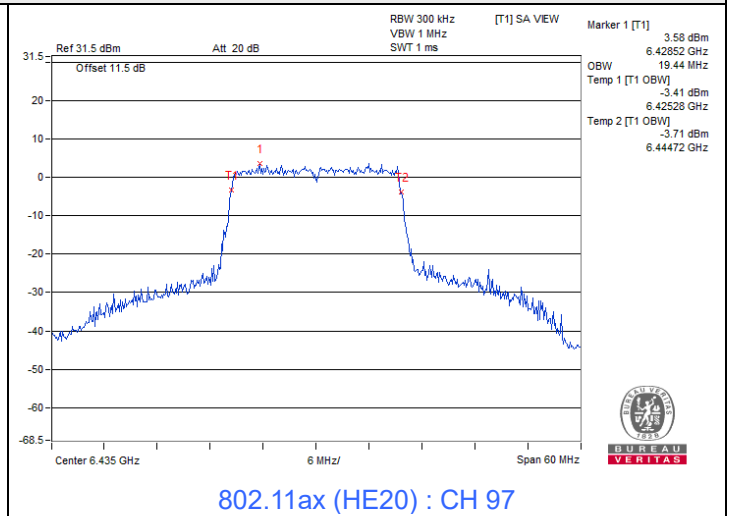
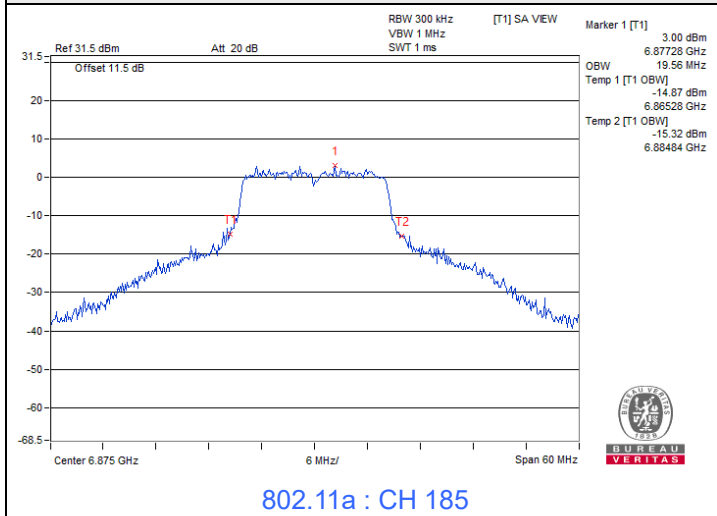
#### 802.11ax (HE40)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 3       | 5965            | 38.16                    |
| 43      | 6165            | 38.4                     |
| 91      | 6405            | 38.4                     |
| 99      | 6445            | 38.64                    |
| 107     | 6485            | 38.64                    |
| 115     | 6525            | 38.4                     |
| 123     | 6565            | 39.12                    |
| 155     | 6725            | 42.24                    |
| 179     | 6845            | 44.16                    |
| 187     | 6885            | 48                       |
| 211     | 7005            | 38.4                     |
| 227     | 7085            | 38.64                    |

#### 802.11ax (HE80)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 7       | 5985            | 78.72                    |
| 39      | 6145            | 78.72                    |
| 87      | 6385            | 81.12                    |
| 103     | 6465            | 84.48                    |
| 119     | 6545            | 111.36                   |
| 151     | 6705            | 111.84                   |
| 183     | 6865            | 99.84                    |
| 199     | 6945            | 128.64                   |
| 215     | 7025            | 95.04                    |

## Spectrum Plot of Maximum Value



## 7.6 Contention-based Protocol

|                           |              |            |               |
|---------------------------|--------------|------------|---------------|
| Environmental Conditions: | 25°C, 60% RH | Tested By: | Frankie Chang |
|---------------------------|--------------|------------|---------------|

| Companion Device Information |       |           |                           |
|------------------------------|-------|-----------|---------------------------|
| Product                      | Brand | Model No. | Software/Firmware Version |
| Wireless Router              | ACER  | W6        | W6_1.30.308516            |

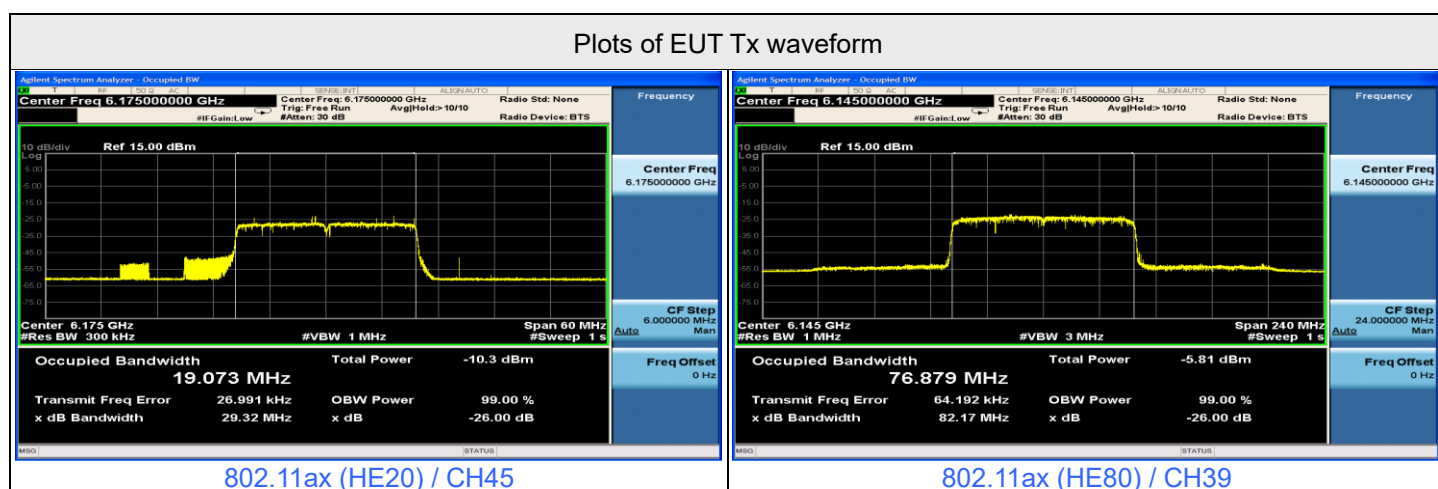
For U-NII-5

| Contention Based Protocol Measurement |                         |                |                     |                        |             |                    |                         |                      |                 |               |
|---------------------------------------|-------------------------|----------------|---------------------|------------------------|-------------|--------------------|-------------------------|----------------------|-----------------|---------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Freq. (MHz) | Injected Signal (AWGN) |             | Antenna Gain (dBi) | Path Loss (dB) (Note 3) | Adjusted Power (dBm) | Detection Limit | EUT TX Status |
|                                       |                         |                |                     | Freq. (MHz)            | Power (dBm) |                    |                         |                      |                 |               |
| 802.11ax                              | 20                      | 45             | 6175                | 6175                   | -67         | 2.11               | 0                       | -69.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -70         | 2.11               | 0                       | -72.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       | 80                      | 39             | 6110                | 6110                   | -63         | 2.11               | 0                       | -65.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         | 39             | 6145                | 6145                   | -63         | 2.11               | 0                       | -65.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         | 39             | 6180                | 6180                   | -64         | 2.11               | 0                       | -66.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -69         | 2.11               | 0                       | -71.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |

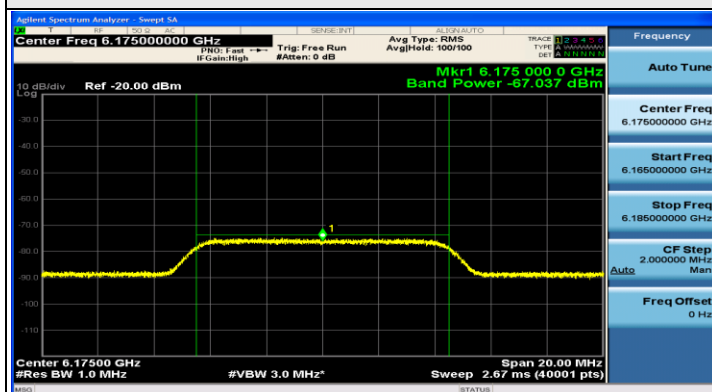
Notes:

1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

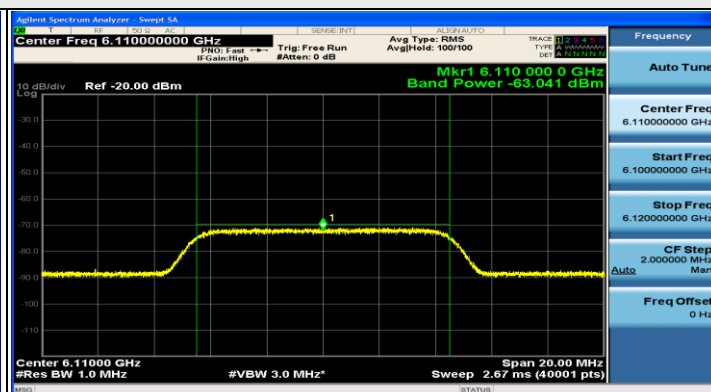
| Contention Based Protocol Detection Probability |                         |                         |     |     |     |     |     |     |     |     |     |     |                       |                 |             |
|-------------------------------------------------|-------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----------------|-------------|
| Operation Mode                                  | Channel Bandwidth (MHz) | AWGN Signal Freq. (MHz) | #01 | #02 | #03 | #04 | #05 | #06 | #07 | #08 | #09 | #10 | Detection Probability | Detection Limit | Test Result |
| 802.11ax                                        | 20                      | 6175                    | V   | V   | V   | V   | V   | V   | V   | V   | V   | V   | 100%                  | 90%             | Pass        |
|                                                 | 80                      | 6110                    | V   | V   | V   | V   | V   | V   | V   | X   | V   | V   | 90%                   | 90%             | Pass        |
|                                                 |                         | 6145                    | V   | V   | V   | V   | V   | V   | V   | V   | V   | V   | 100%                  | 90%             | Pass        |
|                                                 |                         | 6180                    | V   | V   | V   | V   | V   | V   | V   | V   | X   | V   | 90%                   | 90%             | Pass        |



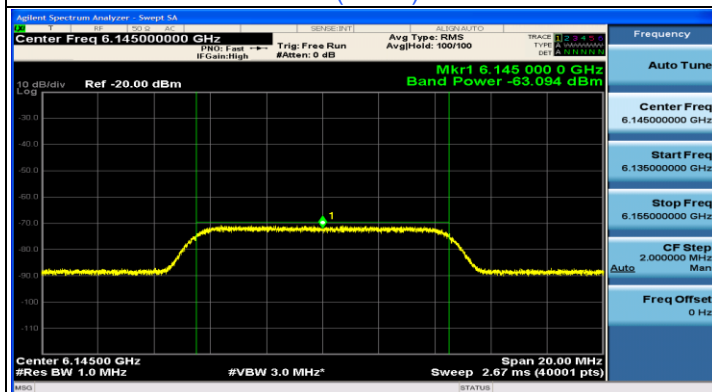
## Plots of Injected signal (AWGN) level



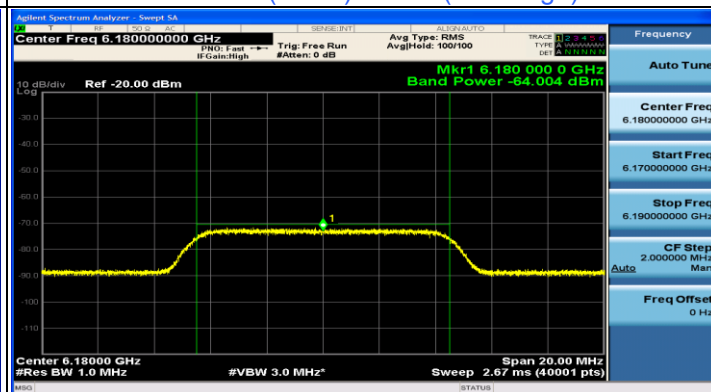
802.11ax (HE20) / CH45



802.11ax (HE80) / CH39(Low Edge)



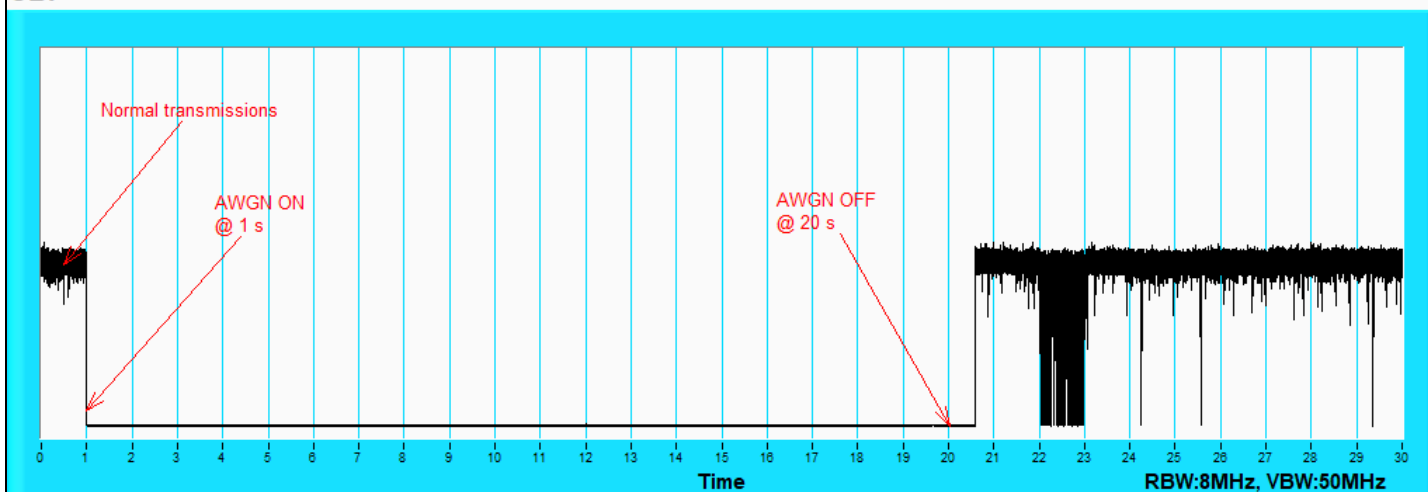
802.11ax (HE80) / CH39(Middle)



802.11ax (HE80) / CH39(High Edge)

## Plots of EUT ceased transmission in the time domain

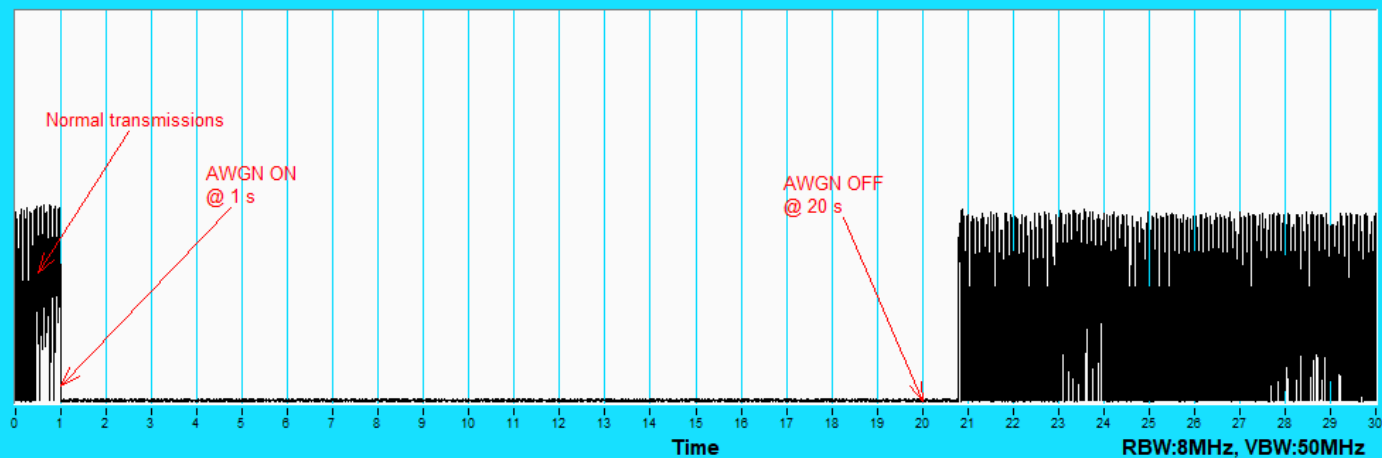
CBP



802.11ax (HE20) / CH45

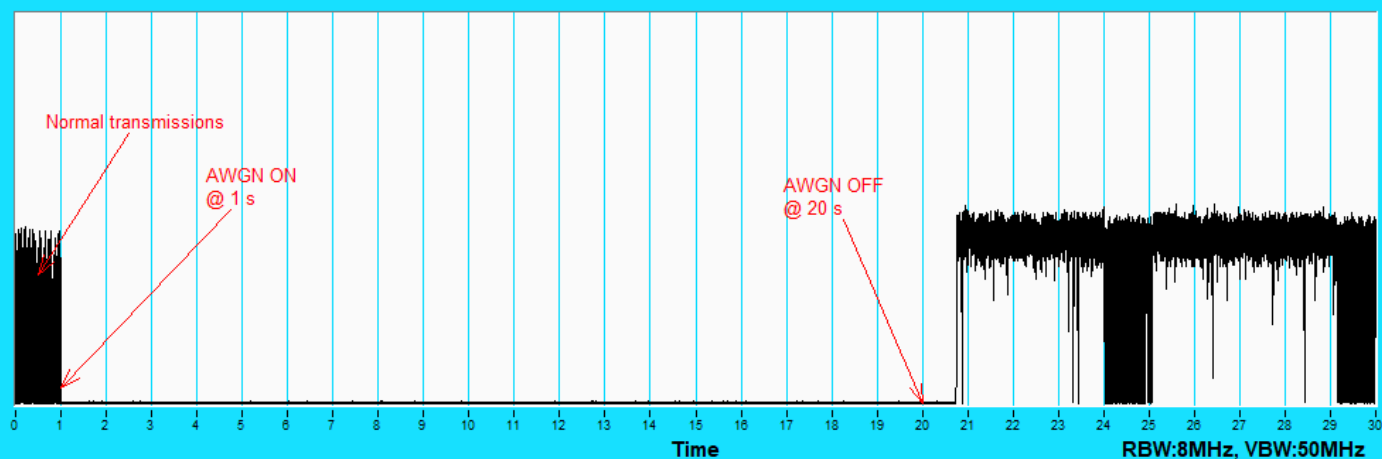
# Plots of EUT ceased transmission in the time domain

## CBP



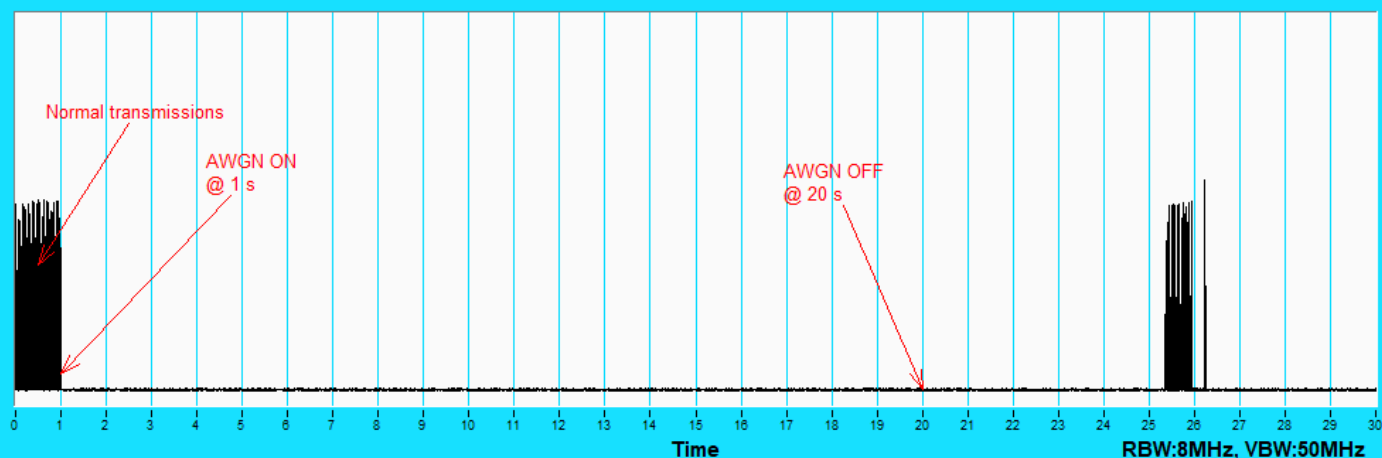
802.11ax (HE80) / CH39(Low Edge)

## CBP



802.11ax (HE80) / CH39(Middle)

## CBP



802.11ax (HE80) / CH39(High Edge)

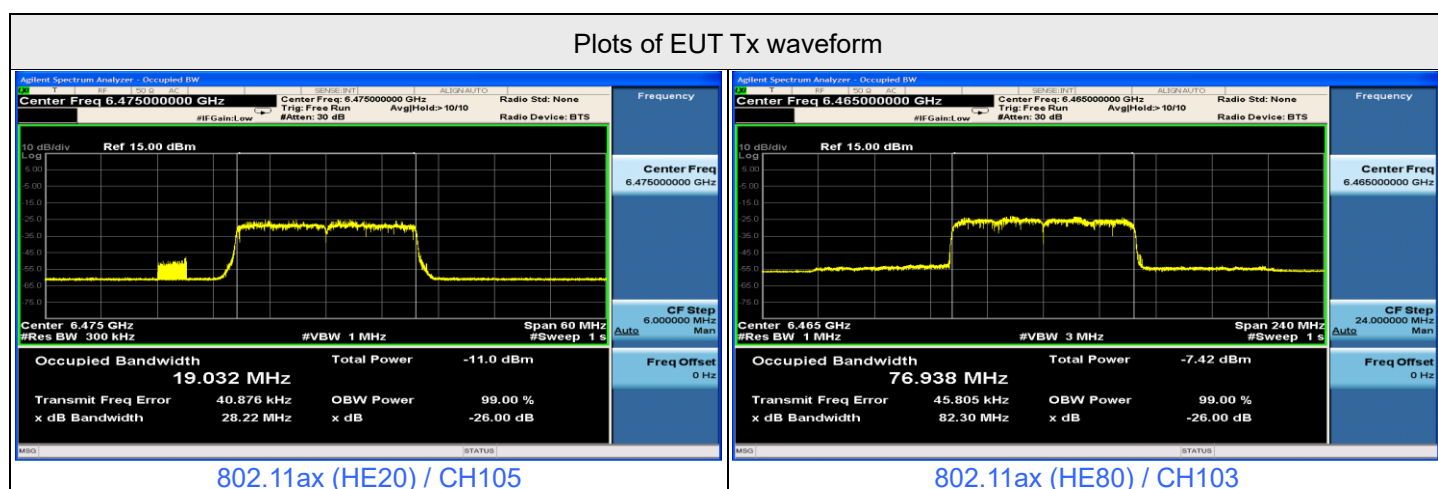
For U-NII-6

| Contention Based Protocol Measurement |                         |                |                     |                        |             |                    |                         |                      |                 |               |
|---------------------------------------|-------------------------|----------------|---------------------|------------------------|-------------|--------------------|-------------------------|----------------------|-----------------|---------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Freq. (MHz) | Injected Signal (AWGN) |             | Antenna Gain (dBi) | Path Loss (dB) (Note 3) | Adjusted Power (dBm) | Detection Limit | EUT TX Status |
|                                       |                         |                |                     | Freq. (MHz)            | Power (dBm) |                    |                         |                      |                 |               |
| 802.11ax                              | 20                      | 105            | 6475                | 6475                   | -67         | 2.11               | 0                       | -69.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -70         | 2.11               | 0                       | -72.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       | 80                      | 103            | 6430                | 6430                   | -63         | 2.11               | 0                       | -65.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         | 103            | 6465                | 6465                   | -63         | 2.11               | 0                       | -65.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         | 103            | 6500                | 6500                   | -64         | 2.11               | 0                       | -66.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |

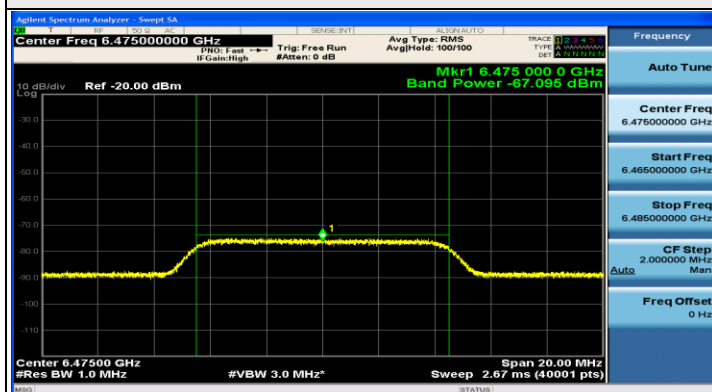
Notes:

1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

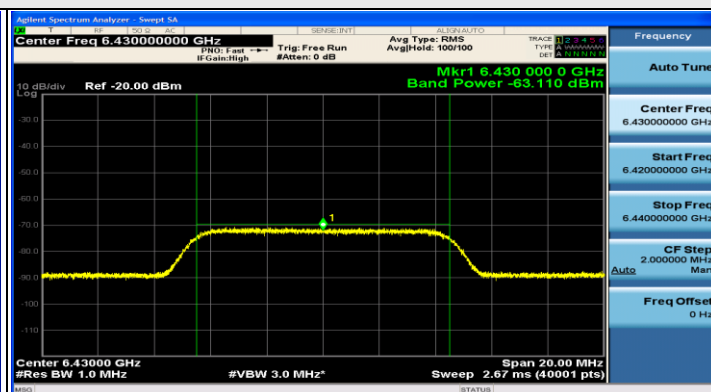
| Contention Based Protocol Detection Probability |                         |                         |     |     |     |     |     |     |     |     |     |     |                       |                 |             |
|-------------------------------------------------|-------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----------------|-------------|
| Operation Mode                                  | Channel Bandwidth (MHz) | AWGN Signal Freq. (MHz) | #01 | #02 | #03 | #04 | #05 | #06 | #07 | #08 | #09 | #10 | Detection Probability | Detection Limit | Test Result |
| 802.11ax                                        | 20                      | 6475                    | V   | V   | V   | V   | V   | V   | V   | V   | V   | V   | 100%                  | 90%             | Pass        |
|                                                 | 80                      | 6430                    | V   | V   | V   | V   | V   | V   | V   | V   | V   | V   | 100%                  | 90%             | Pass        |
|                                                 |                         | 6465                    | V   | V   | V   | V   | V   | V   | V   | V   | X   | V   | 90%                   | 90%             | Pass        |
|                                                 |                         | 6500                    | V   | V   | V   | V   | V   | V   | V   | V   | V   | V   | 100%                  | 90%             | Pass        |



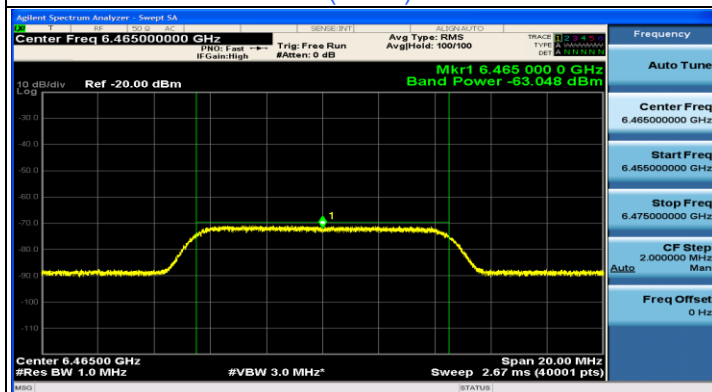
## Plots of Injected signal (AWGN) level



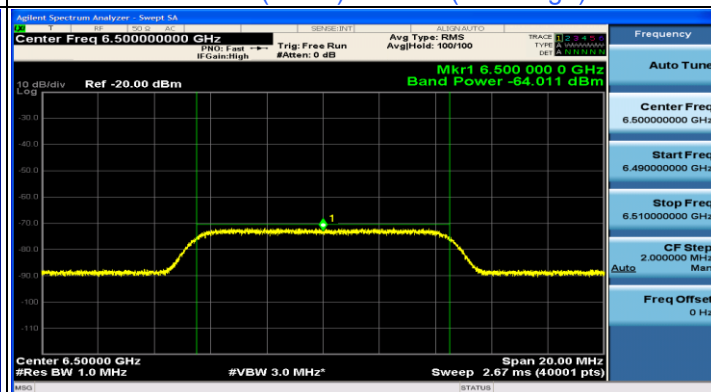
802.11ax (HE20) / CH105



802.11ax (HE80) / CH103(Low Edge)



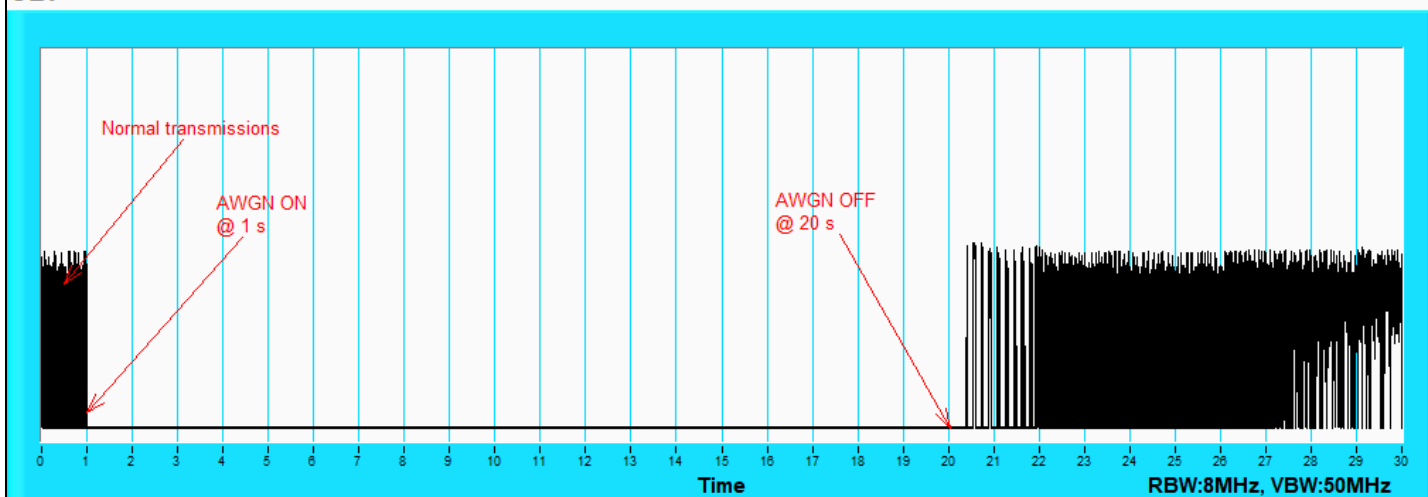
802.11ax (HE80) / CH103(Middle)



802.11ax (HE80) / CH103(High Edge)

## Plots of EUT ceased transmission in the time domain

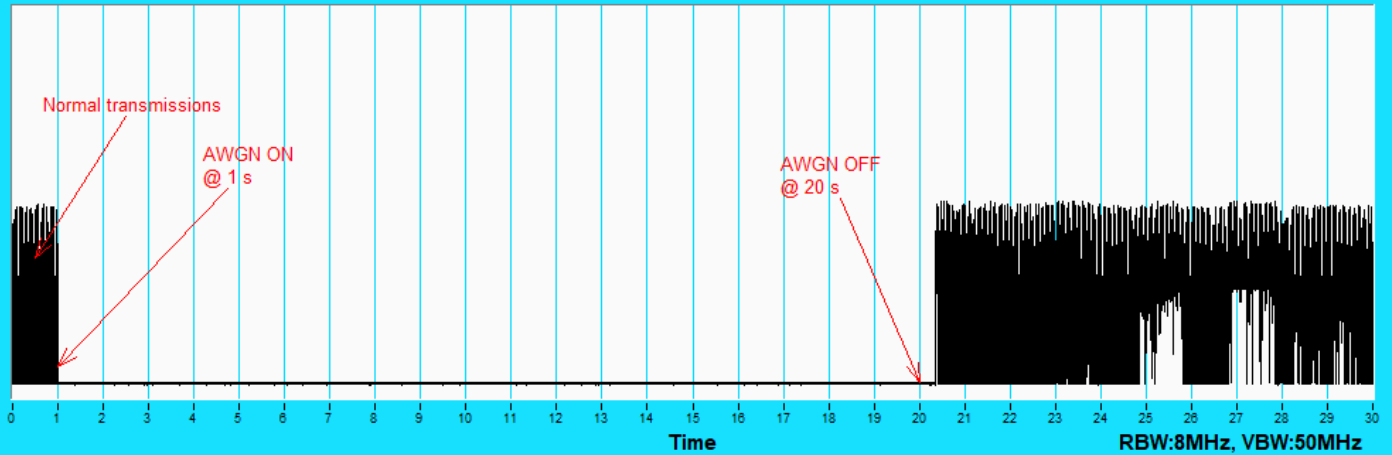
CBP



802.11ax (HE20) / CH105

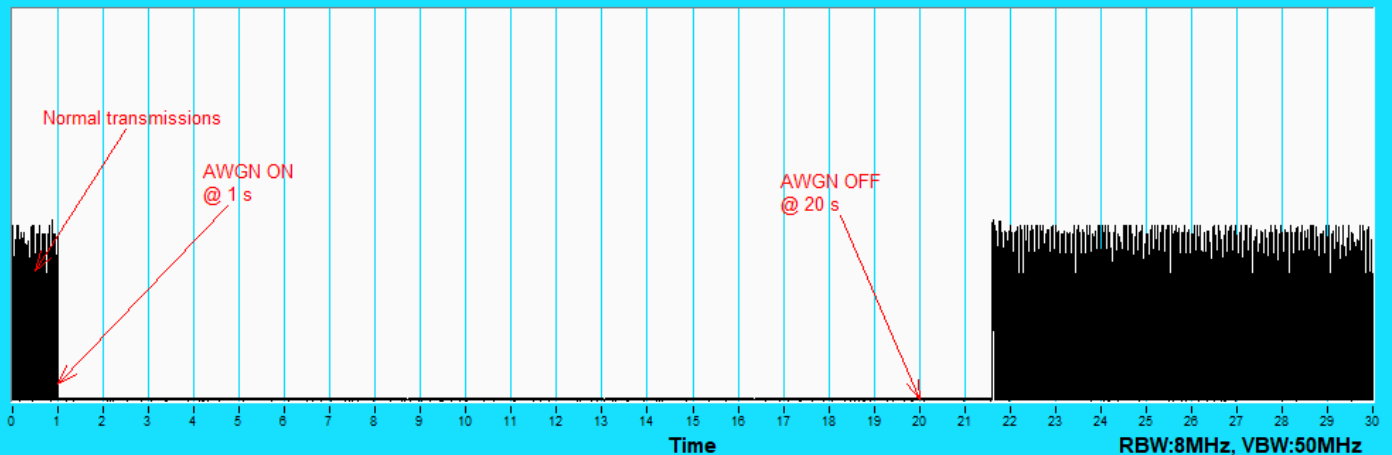
# Plots of EUT ceased transmission in the time domain

## CBP



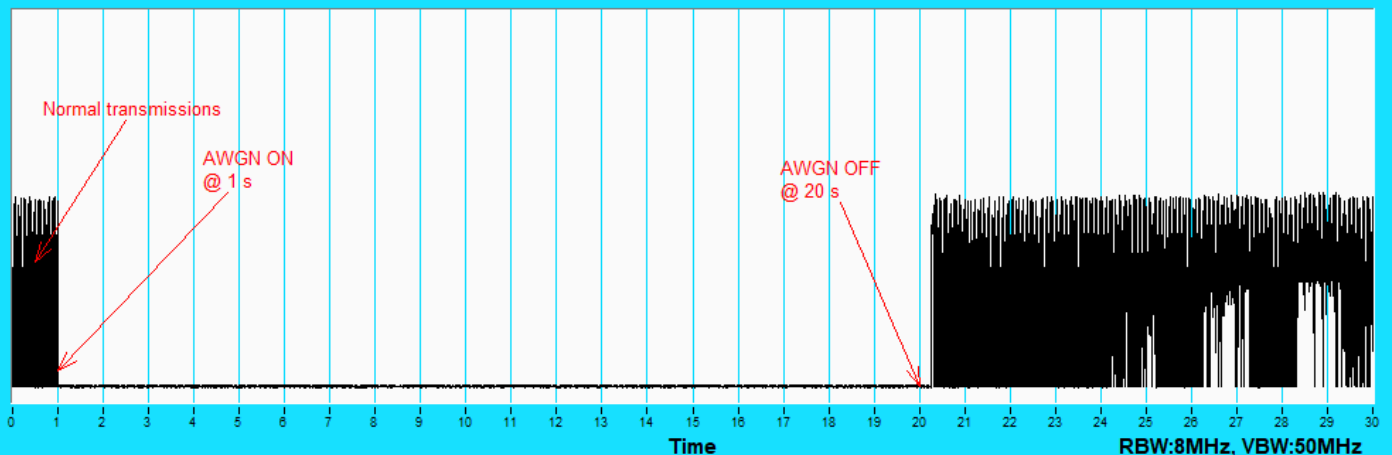
802.11ax (HE80) / CH103(Low Edge)

## CBP



802.11ax (HE80) / CH103(Middle)

## CBP



802.11ax (HE80) / CH103(High Edge)

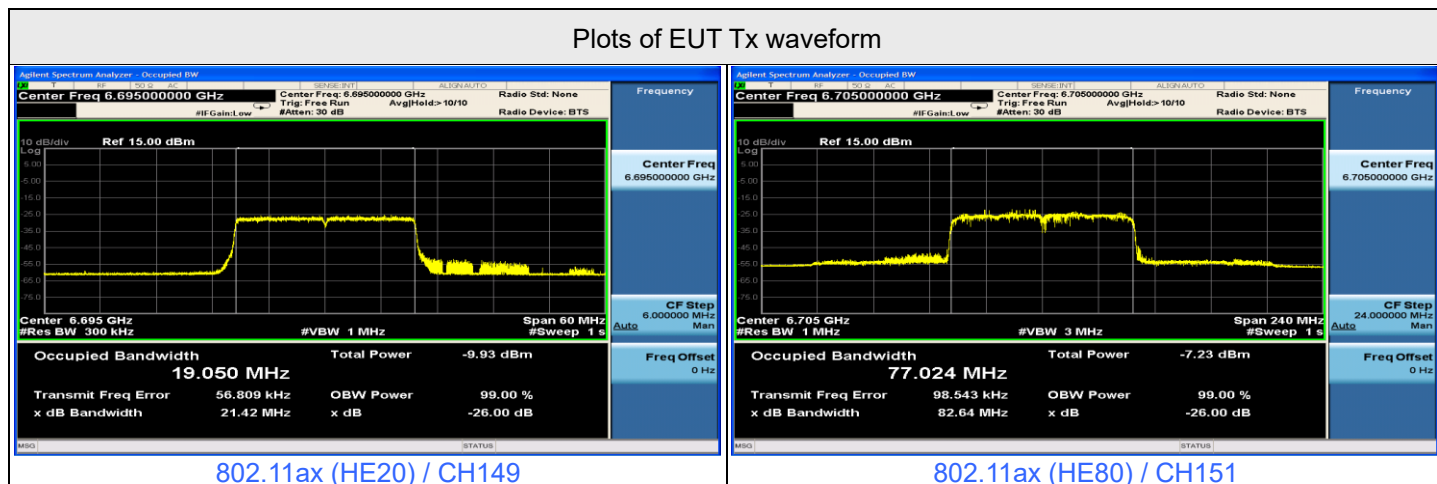
For U-NII-7

| Contention Based Protocol Measurement |                         |                |                     |                        |             |                    |                         |                      |                 |               |
|---------------------------------------|-------------------------|----------------|---------------------|------------------------|-------------|--------------------|-------------------------|----------------------|-----------------|---------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Freq. (MHz) | Injected Signal (AWGN) |             | Antenna Gain (dBi) | Path Loss (dB) (Note 3) | Adjusted Power (dBm) | Detection Limit | EUT TX Status |
|                                       |                         |                |                     | Freq. (MHz)            | Power (dBm) |                    |                         |                      |                 |               |
| 802.11ax                              | 20                      | 149            | 6695                | 6695                   | -68         | 2.11               | 0                       | -70.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -70         | 2.11               | 0                       | -72.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       | 80                      | 151            | 6670                | 6670                   | -64         | 2.11               | 0                       | -66.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         |                | 6705                | 6705                   | -64         | 2.11               | 0                       | -66.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         |                | 6740                | 6740                   | -64         | 2.11               | 0                       | -66.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |

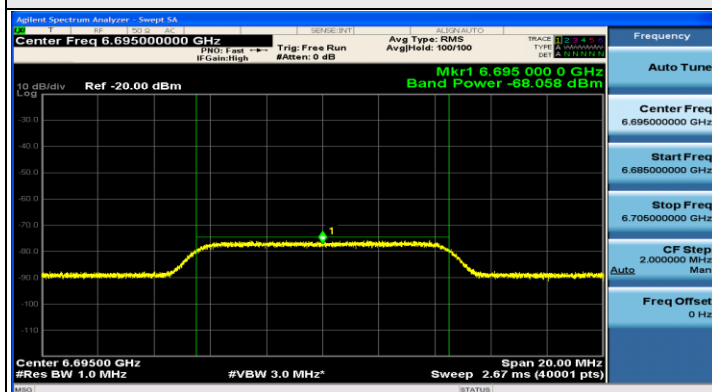
Notes:

1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

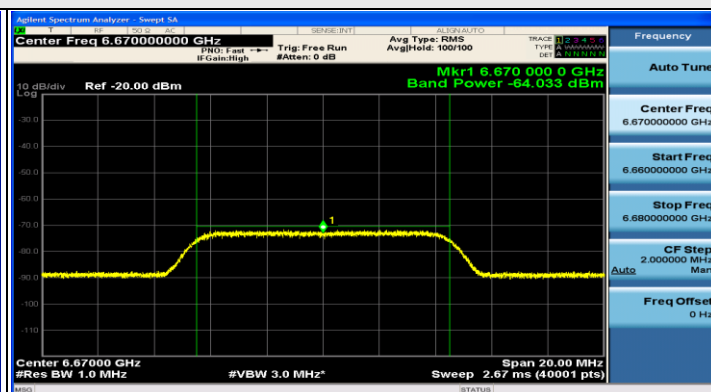
| Contention Based Protocol Detection Probability |                         |                         |     |     |     |     |     |     |     |     |     |     |                       |                 |             |
|-------------------------------------------------|-------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----------------|-------------|
| Operation Mode                                  | Channel Bandwidth (MHz) | AWGN Signal Freq. (MHz) | #01 | #02 | #03 | #04 | #05 | #06 | #07 | #08 | #09 | #10 | Detection Probability | Detection Limit | Test Result |
| 802.11ax                                        | 20                      | 6695                    | V   | V   | V   | V   | V   | V   | V   | X   | V   | V   | 90%                   | 90%             | Pass        |
|                                                 | 80                      | 6670                    | V   | V   | V   | V   | V   | V   | V   | V   | V   | V   | 100%                  | 90%             | Pass        |
|                                                 |                         | 6705                    | V   | V   | V   | V   | V   | V   | X   | V   | V   | V   | 90%                   | 90%             | Pass        |
|                                                 |                         | 6740                    | V   | V   | V   | V   | V   | V   | V   | V   | V   | X   | 90%                   | 90%             | Pass        |



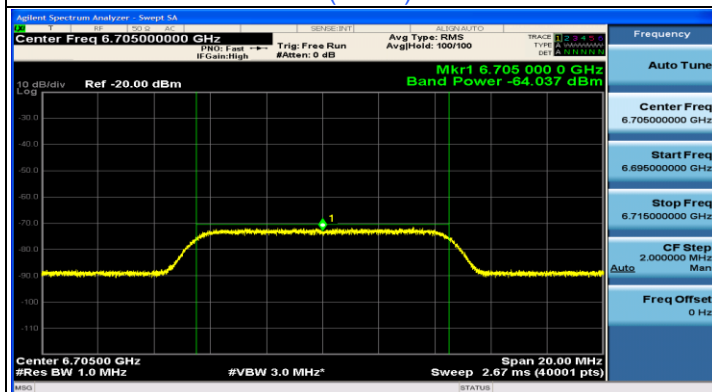
## Plots of Injected signal (AWGN) level



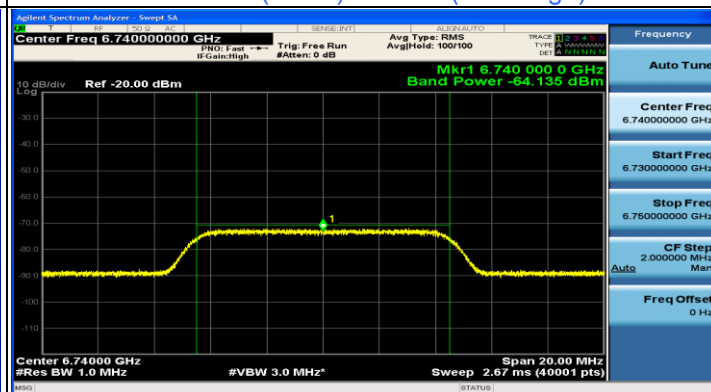
802.11ax (HE20) / CH149



802.11ax (HE80) / CH151(Low Edge)



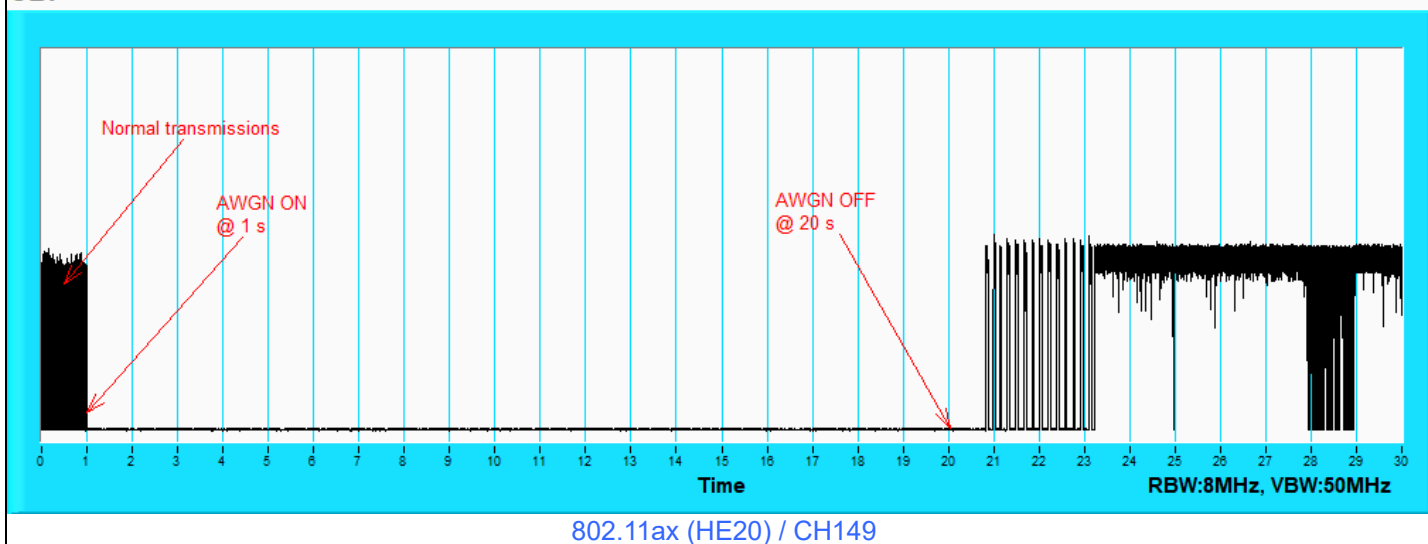
802.11ax (HE80) / CH151(Middle)



802.11ax (HE80) / CH151(High Edge)

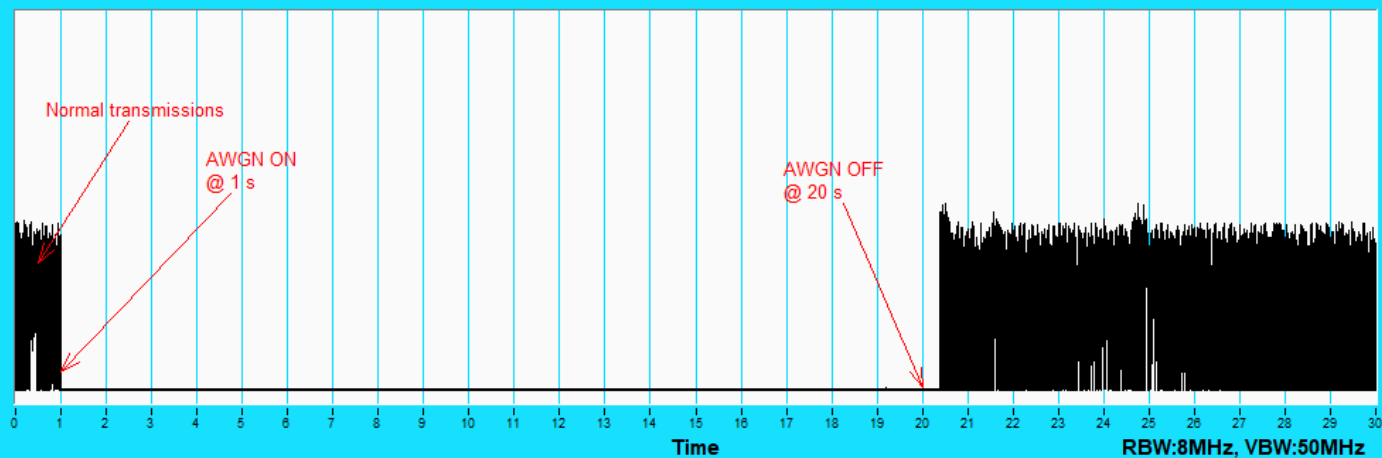
## Plots of EUT ceased transmission in the time domain

CBP



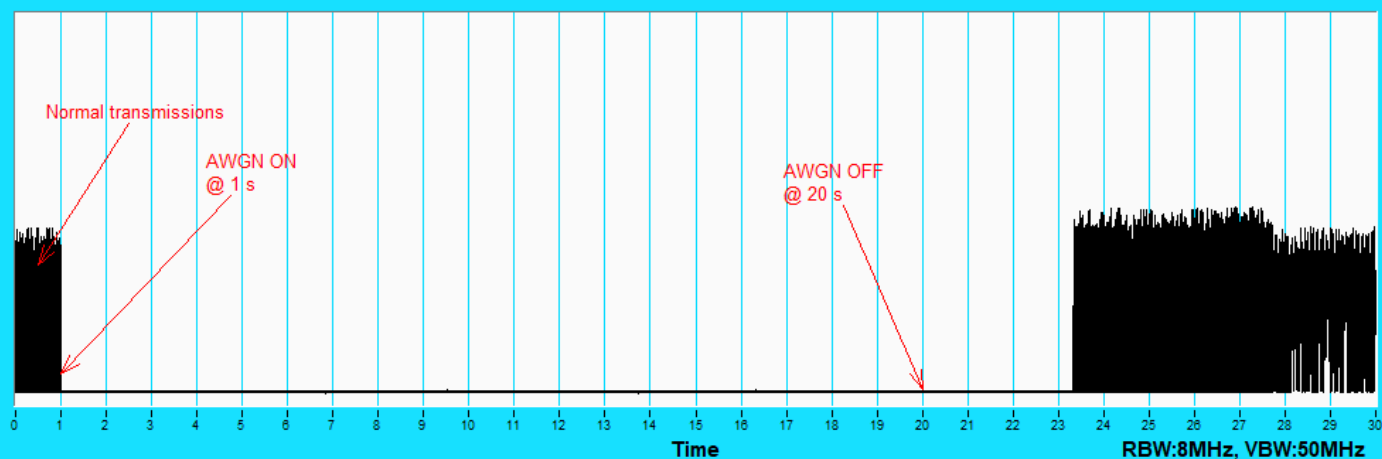
# Plots of EUT ceased transmission in the time domain

## CBP



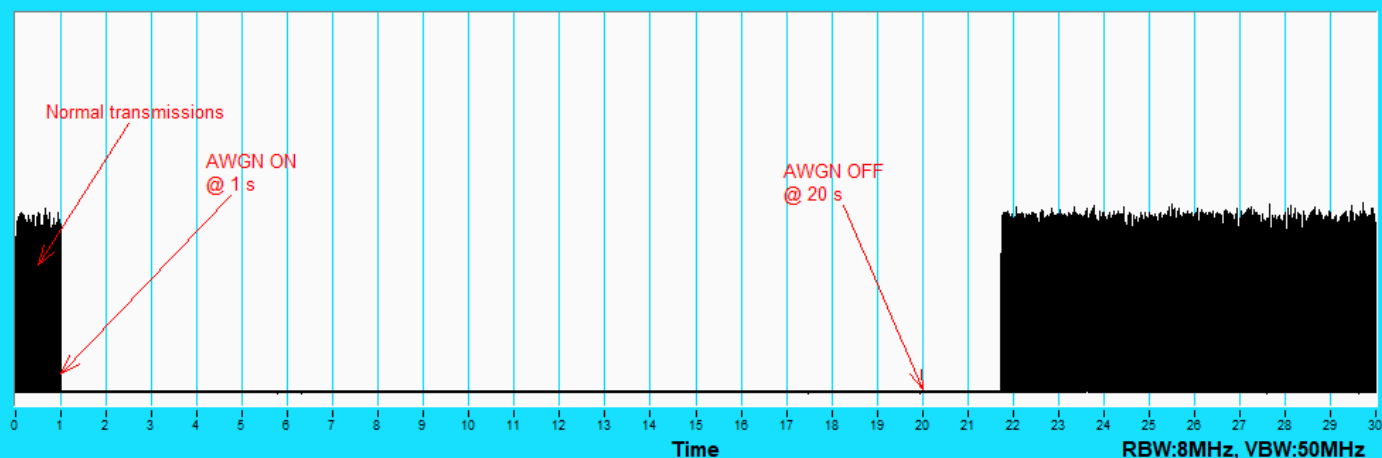
802.11ax (HE80) / CH151(Low Edge)

## CBP



802.11ax (HE80) / CH151(Middle)

## CBP



802.11ax (HE80) / CH151(High Edge)

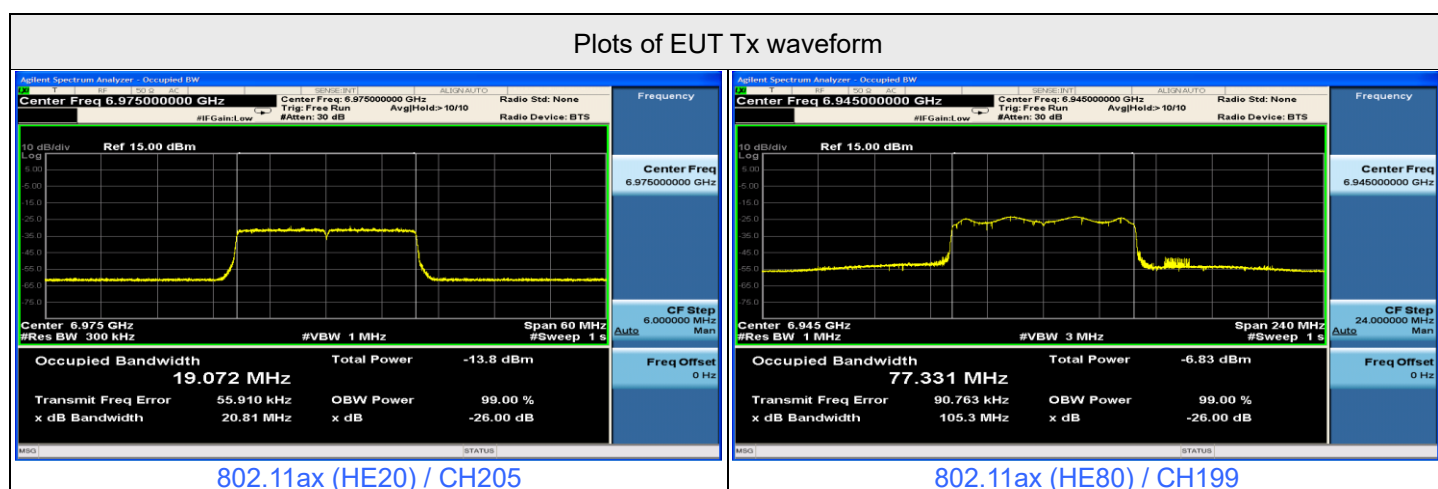
For U-NII-8

| Contention Based Protocol Measurement |                         |                |                     |                        |             |                    |                         |                      |                 |               |
|---------------------------------------|-------------------------|----------------|---------------------|------------------------|-------------|--------------------|-------------------------|----------------------|-----------------|---------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Freq. (MHz) | Injected Signal (AWGN) |             | Antenna Gain (dBi) | Path Loss (dB) (Note 3) | Adjusted Power (dBm) | Detection Limit | EUT TX Status |
|                                       |                         |                |                     | Freq. (MHz)            | Power (dBm) |                    |                         |                      |                 |               |
| 802.11ax                              | 20                      | 205            | 6975                | 6975                   | -65         | 2.11               | 0                       | -67.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       | 80                      | 199            | 6910                | 6910                   | -64         | 2.11               | 0                       | -66.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         |                | 6945                | 6945                   | -62         | 2.11               | 0                       | -64.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |
|                                       |                         |                | 6980                | 6980                   | -63         | 2.11               | 0                       | -65.11               | -62             | OFF           |
|                                       |                         |                |                     |                        | -68         | 2.11               | 0                       | -70.11               | -62             | Minimal       |
|                                       |                         |                |                     |                        | -79.89      | 2.11               | 0                       | -82                  | -62             | ON            |

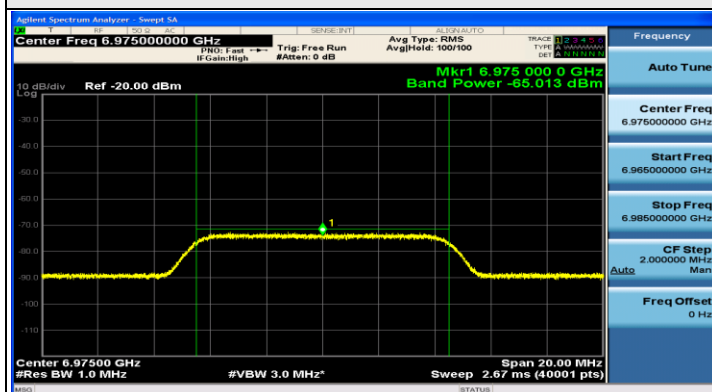
Notes:

1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

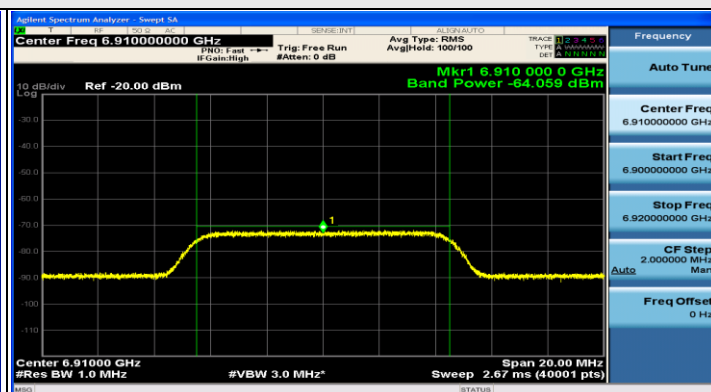
| Contention Based Protocol Detection Probability |                         |                         |     |     |     |     |     |     |     |     |     |     |                       |                 |             |
|-------------------------------------------------|-------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----------------|-------------|
| Operation Mode                                  | Channel Bandwidth (MHz) | AWGN Signal Freq. (MHz) | #01 | #02 | #03 | #04 | #05 | #06 | #07 | #08 | #09 | #10 | Detection Probability | Detection Limit | Test Result |
| 802.11ax                                        | 20                      | 6975                    | V   | V   | V   | V   | V   | V   | V   | X   | V   | V   | 90%                   | 90%             | Pass        |
|                                                 | 80                      | 6910                    | V   | V   | V   | V   | V   | V   | V   | V   | X   | V   | 90%                   | 90%             | Pass        |
|                                                 |                         | 6945                    | V   | V   | V   | V   | V   | V   | X   | V   | V   | V   | 90%                   | 90%             | Pass        |
|                                                 |                         | 6980                    | V   | V   | V   | V   | V   | X   | V   | V   | V   | V   | 90%                   | 90%             | Pass        |



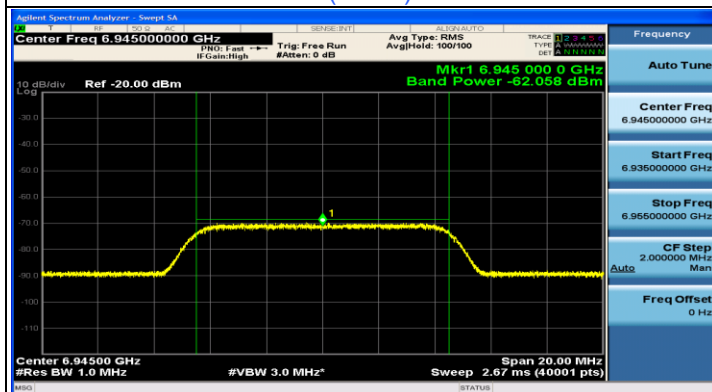
## Plots of Injected signal (AWGN) level



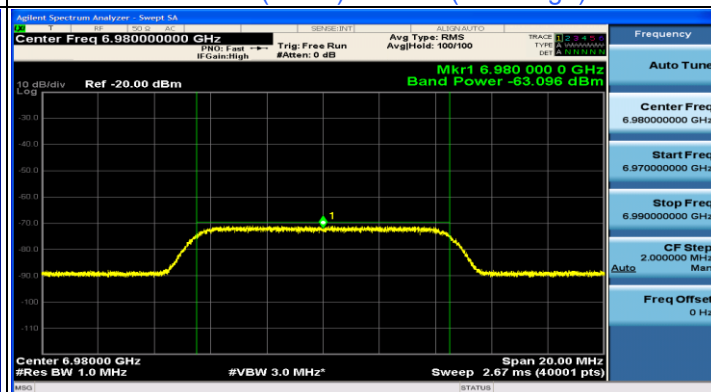
802.11ax (HE20) / CH205



802.11ax (HE80) / CH199(Low Edge)



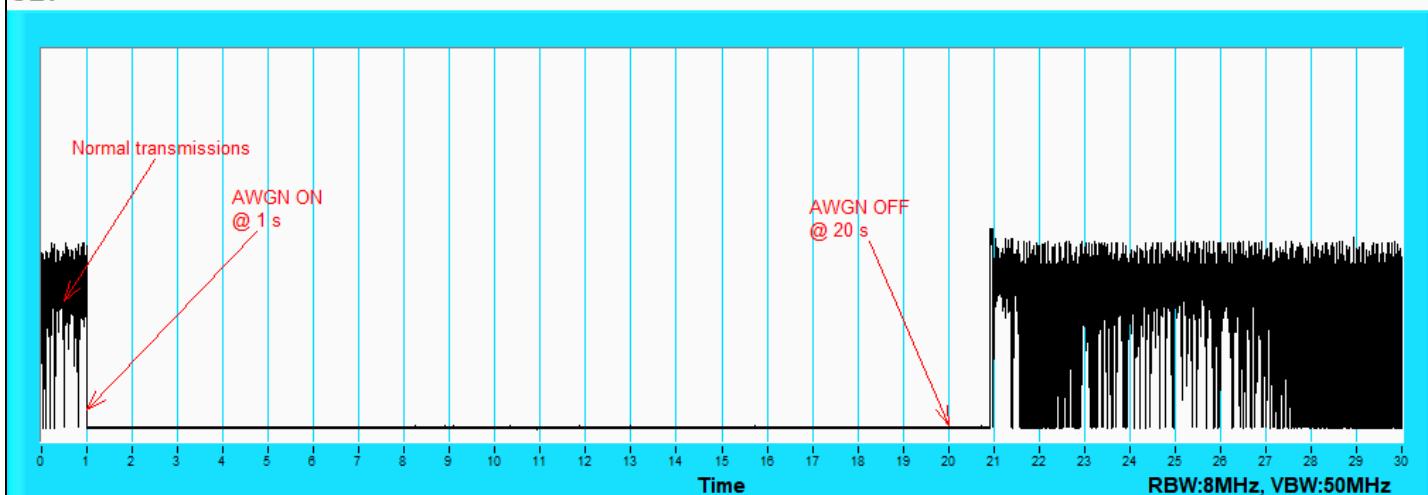
802.11ax (HE80) / CH199(Middle)



802.11ax (HE80) / CH199(High Edge)

## Plots of EUT ceased transmission in the time domain

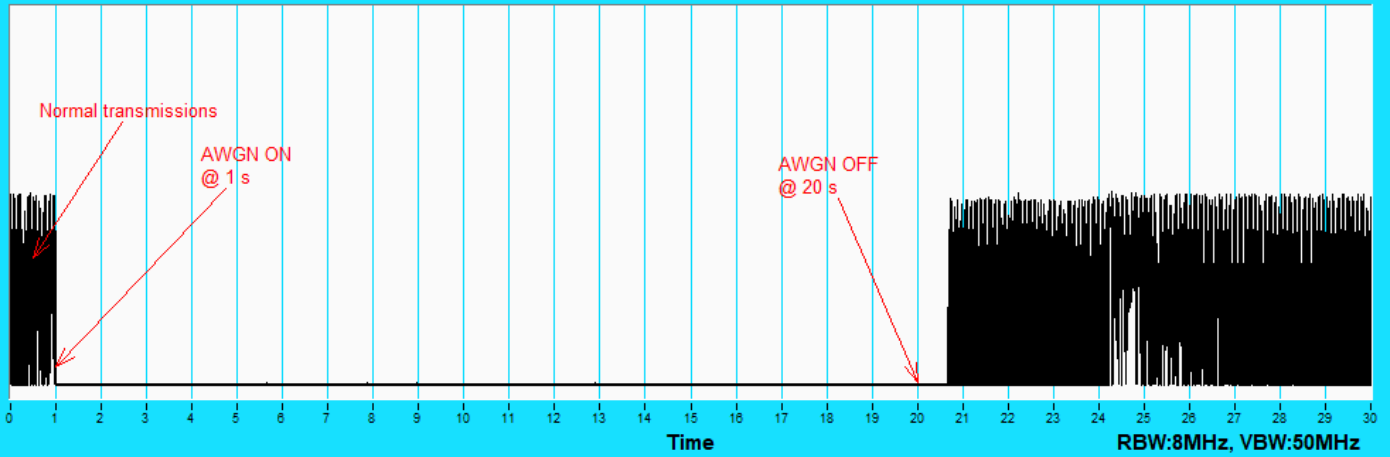
CBP



802.11ax (HE20) / CH205

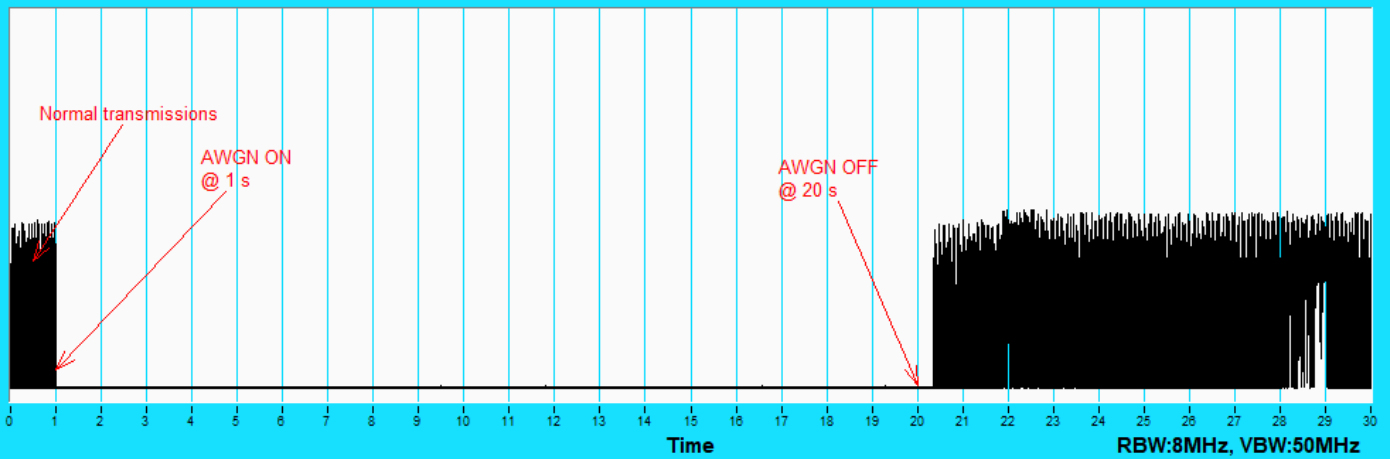
# Plots of EUT ceased transmission in the time domain

## CBP



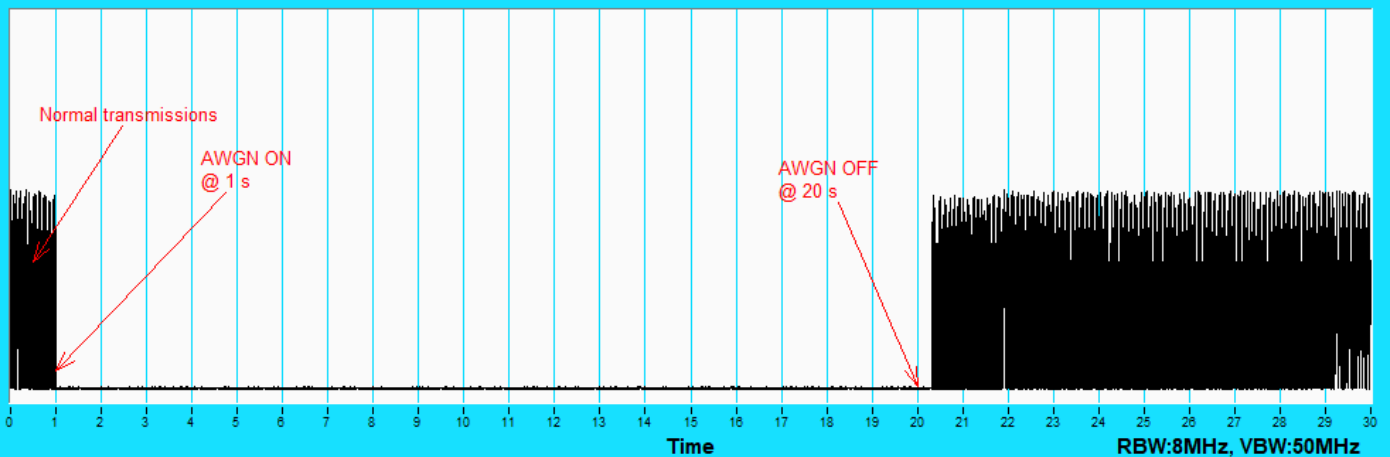
802.11ax (HE80) / CH199(Low Edge)

## CBP



802.11ax (HE80) / CH199(Middle)

## CBP



802.11ax (HE80) / CH199(High Edge)

P

## 7.7 AC Power Conducted Emissions

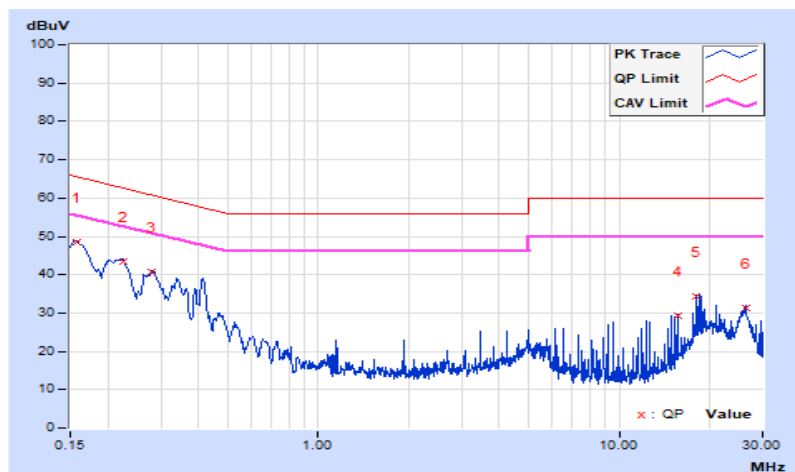
### Mode A

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE80)  | Channel                                  | CH 183 : 6865 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| 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                         | 0.15800         | 8.80                   | 39.56                | 32.23 | 48.36                 | 41.03 | 65.57        | 55.57 | -17.21      | -14.54 |
| 2                         | 0.22387         | 8.76                   | 34.83                | 24.30 | 43.59                 | 33.06 | 62.67        | 52.67 | -19.08      | -19.61 |
| 3                         | 0.28000         | 8.74                   | 32.01                | 24.14 | 40.75                 | 32.88 | 60.82        | 50.82 | -20.07      | -17.94 |
| 4                         | 15.74400        | 9.00                   | 20.44                | 19.82 | 29.44                 | 28.82 | 60.00        | 50.00 | -30.56      | -21.18 |
| 5                         | 18.04800        | 9.05                   | 25.36                | 23.32 | 34.41                 | 32.37 | 60.00        | 50.00 | -25.59      | -17.63 |
| 6                         | 26.49600        | 9.21                   | 22.14                | 17.94 | 31.35                 | 27.15 | 60.00        | 50.00 | -28.65      | -22.85 |

#### Remarks:

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

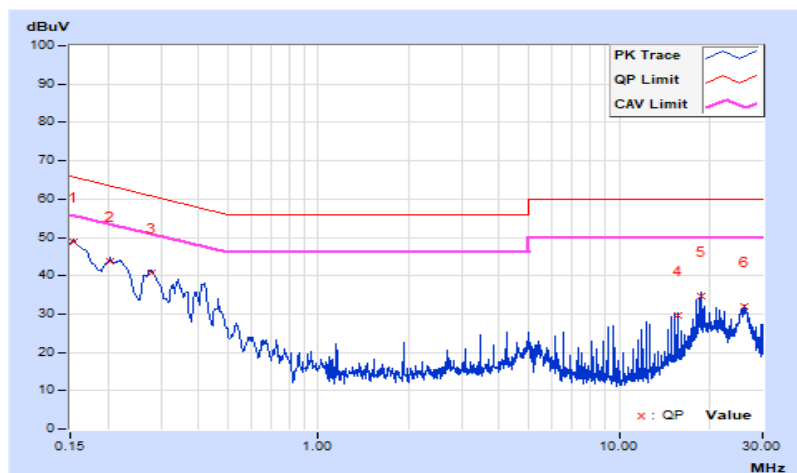


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE80)  | Channel                                  | CH 183 : 6865 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 8.80                   | 40.01                | 32.85 | 48.81                 | 41.65 | 65.78        | 55.78 | -16.97      | -14.13 |
| 2                            | 0.20361         | 8.76                   | 34.86                | 26.64 | 43.62                 | 35.40 | 63.46        | 53.46 | -19.84      | -18.06 |
| 3                            | 0.27786         | 8.74                   | 31.95                | 24.61 | 40.69                 | 33.35 | 60.88        | 50.88 | -20.19      | -17.53 |
| 4                            | 15.74400        | 8.97                   | 20.54                | 20.08 | 29.51                 | 29.05 | 60.00        | 50.00 | -30.49      | -20.95 |
| 5                            | 18.81600        | 9.04                   | 25.63                | 23.21 | 34.67                 | 32.25 | 60.00        | 50.00 | -25.33      | -17.75 |
| 6                            | 26.04400        | 9.21                   | 22.63                | 17.76 | 31.84                 | 26.97 | 60.00        | 50.00 | -28.16      | -23.03 |

**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



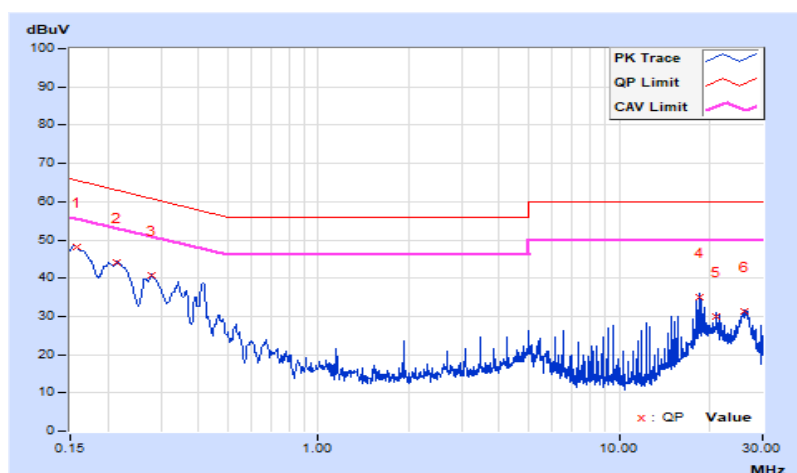
## Mode B

|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE80)  | Channel                                  | CH 151 : 6705 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| 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                         | 0.15800         | 8.80                   | 39.45                | 32.09 | 48.25                 | 40.89 | 65.57        | 55.57 | -17.32      | -14.68 |
| 2                         | 0.21520         | 8.76                   | 35.48                | 26.97 | 44.24                 | 35.73 | 63.00        | 53.00 | -18.76      | -17.27 |
| 3                         | 0.28000         | 8.74                   | 31.84                | 23.79 | 40.58                 | 32.53 | 60.82        | 50.82 | -20.24      | -18.29 |
| 4                         | 18.43200        | 9.06                   | 25.99                | 23.93 | 35.05                 | 32.99 | 60.00        | 50.00 | -24.95      | -17.01 |
| 5                         | 21.12000        | 9.11                   | 20.76                | 18.23 | 29.87                 | 27.34 | 60.00        | 50.00 | -30.13      | -22.66 |
| 6                         | 26.08800        | 9.21                   | 22.06                | 17.27 | 31.27                 | 26.48 | 60.00        | 50.00 | -28.73      | -23.52 |

### Remarks:

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

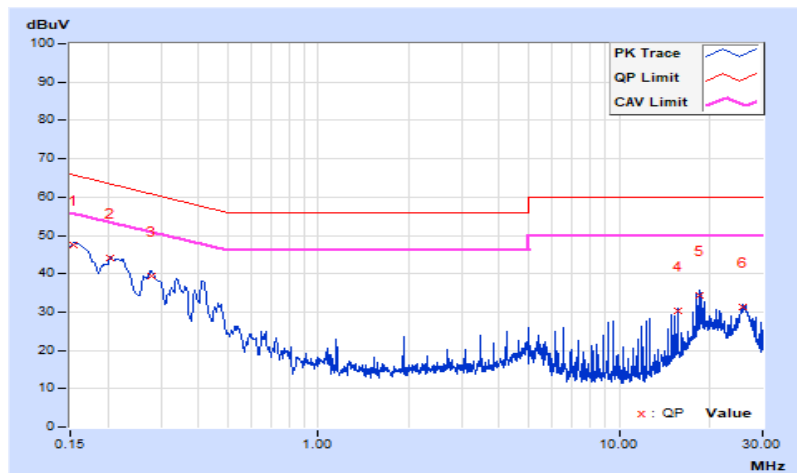


|                 |                  |                                          |                                       |
|-----------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode         | 802.11ax (HE80)  | Channel                                  | CH 151 : 6705 MHz                     |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power     | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75% RH                         |
| Tested By       | Jed Wu           |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 8.80                   | 38.75                | 31.39 | 47.55                 | 40.19 | 65.78        | 55.78 | -18.23      | -15.59 |
| 2                            | 0.20400         | 8.76                   | 35.41                | 26.86 | 44.17                 | 35.62 | 63.45        | 53.45 | -19.28      | -17.83 |
| 3                            | 0.27786         | 8.74                   | 30.79                | 23.22 | 39.53                 | 31.96 | 60.88        | 50.88 | -21.35      | -18.92 |
| 4                            | 15.74400        | 8.97                   | 21.48                | 19.88 | 30.45                 | 28.85 | 60.00        | 50.00 | -29.55      | -21.15 |
| 5                            | 18.43200        | 9.03                   | 25.37                | 24.30 | 34.40                 | 33.33 | 60.00        | 50.00 | -25.60      | -16.67 |
| 6                            | 25.79600        | 9.20                   | 22.26                | 17.48 | 31.46                 | 26.68 | 60.00        | 50.00 | -28.54      | -23.32 |

#### Remarks:

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



## 7.8 Unwanted Emissions below 1 GHz

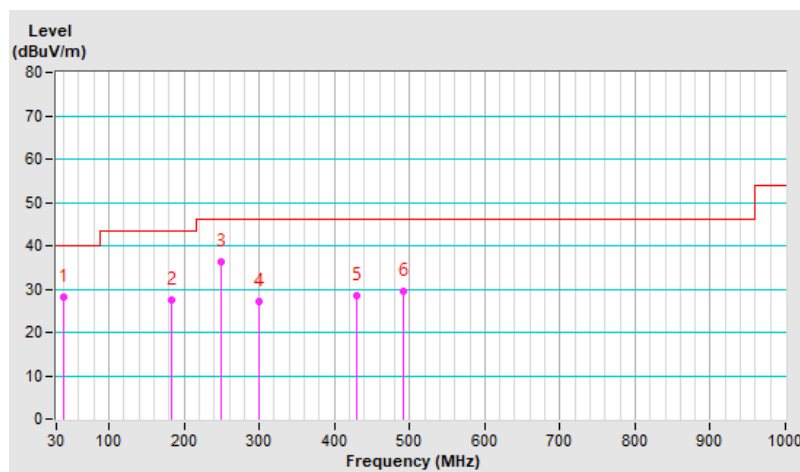
### Mode A

|                 |                 |                               |                                |
|-----------------|-----------------|-------------------------------|--------------------------------|
| RF Mode         | 802.11ax (HE80) | Channel                       | CH 183 : 6865 MHz              |
| Frequency Range | 30 MHz ~ 1 GHz  | Detector Function & Bandwidth | QP: RB=120 kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25 °C, 75% RH                  |
| Tested By       | Jed Wu          |                               |                                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 38.78           | 28.2 QP                 | 40.0           | -11.8       | 1.96 H             | 8                    | 38.0             | -9.8                     |
| 2                                                    | 182.87          | 27.5 QP                 | 43.5           | -16.0       | 1.83 H             | 188                  | 36.8             | -9.3                     |
| 3                                                    | 250.00          | 36.4 QP                 | 46.0           | -9.6        | 1.75 H             | 195                  | 44.1             | -7.7                     |
| 4                                                    | 300.00          | 27.1 QP                 | 46.0           | -18.9       | 1.24 H             | 141                  | 32.7             | -5.6                     |
| 5                                                    | 430.08          | 28.6 QP                 | 46.0           | -17.4       | 1.53 H             | 352                  | 31.2             | -2.6                     |
| 6                                                    | 492.20          | 29.5 QP                 | 46.0           | -16.5       | 1.66 H             | 220                  | 30.8             | -1.3                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

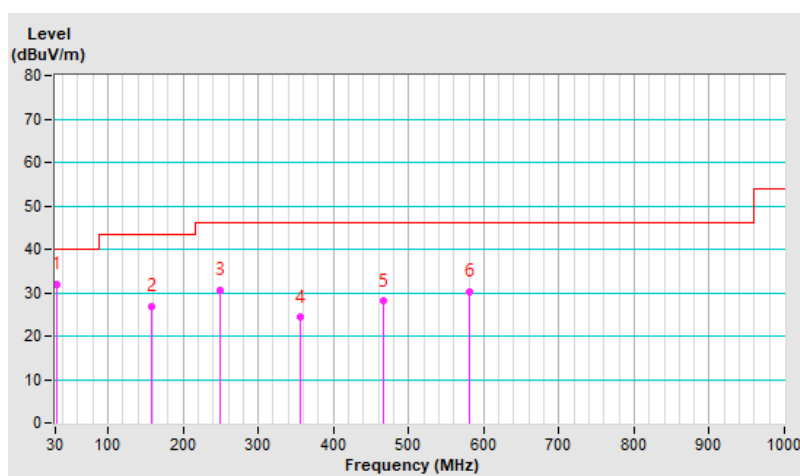


|                 |                 |                               |                                |
|-----------------|-----------------|-------------------------------|--------------------------------|
| RF Mode         | 802.11ax (HE80) | Channel                       | CH 183 : 6865 MHz              |
| Frequency Range | 30 MHz ~ 1 GHz  | Detector Function & Bandwidth | QP: RB=120 kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25 °C, 75% RH                  |
| Tested By       | Jed Wu          |                               |                                |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 31.12           | 31.9 QP                 | 40.0           | -8.1        | 1.03 V             | 334                  | 42.6             | -10.7                    |
| 2                                                  | 158.43          | 26.8 QP                 | 43.5           | -16.7       | 1.12 V             | 143                  | 34.5             | -7.7                     |
| 3                                                  | 250.00          | 30.5 QP                 | 46.0           | -15.5       | 1.46 V             | 200                  | 38.2             | -7.7                     |
| 4                                                  | 356.36          | 24.3 QP                 | 46.0           | -21.7       | 1.58 V             | 360                  | 28.7             | -4.4                     |
| 5                                                  | 466.60          | 28.0 QP                 | 46.0           | -18.0       | 1.79 V             | 42                   | 29.8             | -1.8                     |
| 6                                                  | 581.74          | 30.3 QP                 | 46.0           | -15.7       | 1.63 V             | 106                  | 29.7             | 0.6                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



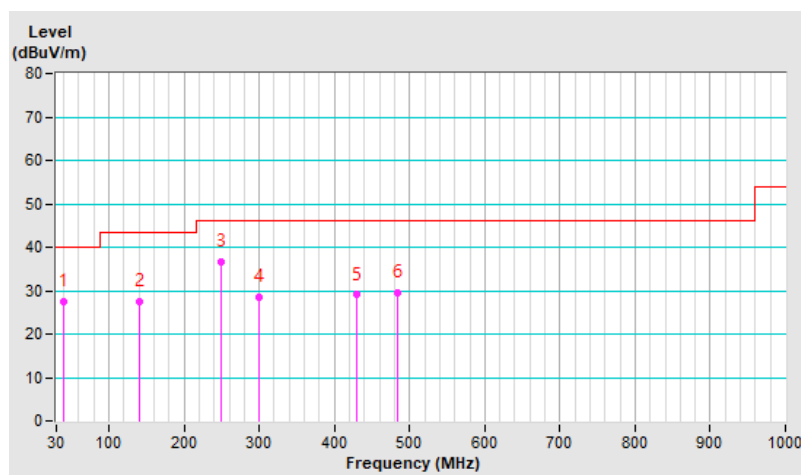
## Mode B

|                 |                 |                               |                                |
|-----------------|-----------------|-------------------------------|--------------------------------|
| RF Mode         | 802.11ax (HE80) | Channel                       | CH 151 : 6705 MHz              |
| Frequency Range | 30 MHz ~ 1 GHz  | Detector Function & Bandwidth | QP: RB=120 kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25 °C, 75% RH                  |
| Tested By       | Jed Wu          |                               |                                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 38.78           | 27.5 QP                 | 40.0           | -12.5       | 1.21 H             | 301                  | 37.3             | -9.8                     |
| 2                                                    | 140.63          | 27.4 QP                 | 43.5           | -16.1       | 1.40 H             | 184                  | 35.9             | -8.5                     |
| 3                                                    | 250.00          | 36.7 QP                 | 46.0           | -9.3        | 1.38 H             | 199                  | 44.4             | -7.7                     |
| 4                                                    | 300.00          | 28.6 QP                 | 46.0           | -17.4       | 1.79 H             | 134                  | 34.2             | -5.6                     |
| 5                                                    | 430.08          | 29.0 QP                 | 46.0           | -17.0       | 1.58 H             | 0                    | 31.6             | -2.6                     |
| 6                                                    | 483.96          | 29.5 QP                 | 46.0           | -16.5       | 1.97 H             | 226                  | 30.9             | -1.4                     |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

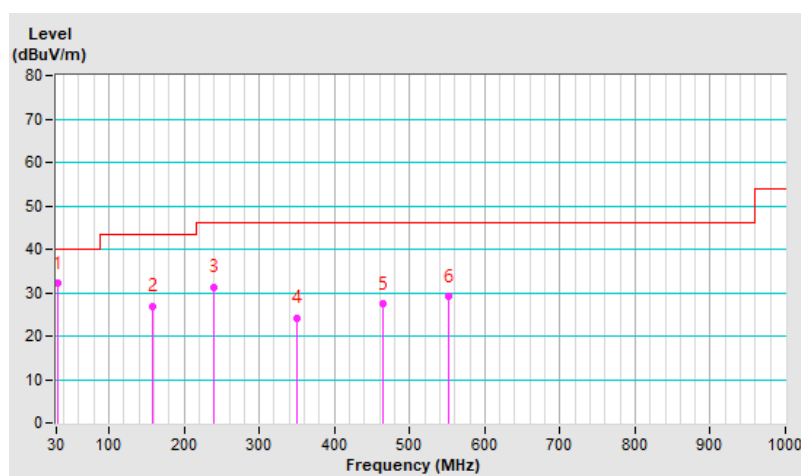


|                 |                 |                               |                                |
|-----------------|-----------------|-------------------------------|--------------------------------|
| RF Mode         | 802.11ax (HE80) | Channel                       | CH 151 : 6705 MHz              |
| Frequency Range | 30 MHz ~ 1 GHz  | Detector Function & Bandwidth | QP: RB=120 kHz, DET=Quasi-Peak |
| Input Power     | 120 Vac, 60 Hz  | Environmental Conditions      | 25 °C, 75% RH                  |
| Tested By       | Jed Wu          |                               |                                |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 31.12           | 32.1 QP                 | 40.0           | -7.9        | 1.48 V             | 18                   | 42.8             | -10.7                    |
| 2                                                  | 157.85          | 26.7 QP                 | 43.5           | -16.8       | 1.79 V             | 47                   | 34.4             | -7.7                     |
| 3                                                  | 240.00          | 31.3 QP                 | 46.0           | -14.7       | 1.32 V             | 268                  | 39.6             | -8.3                     |
| 4                                                  | 350.00          | 24.0 QP                 | 46.0           | -22.0       | 1.25 V             | 233                  | 28.6             | -4.6                     |
| 5                                                  | 465.09          | 27.3 QP                 | 46.0           | -18.7       | 1.00 V             | 65                   | 29.1             | -1.8                     |
| 6                                                  | 551.62          | 29.0 QP                 | 46.0           | -17.0       | 1.60 V             | 248                  | 29.5             | -0.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



## 7.9 Unwanted Emissions above 1 GHz

### Mode A

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 1 : 5955 MHz                                                      |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | #5925.00        | 73.5 PK                 | 88.2           | -14.7       | 1.87 H             | 82                   | 67.6             | 5.9                      |
| 2                                                    | #5925.00        | 55.5 AV                 | 68.2           | -12.7       | 1.87 H             | 82                   | 49.6             | 5.9                      |
| 3                                                    | *5955.00        | 112.3 PK                |                |             | 1.87 H             | 82                   | 68.9             | 43.4                     |
| 4                                                    | *5955.00        | 102.8 AV                |                |             | 1.87 H             | 82                   | 59.4             | 43.4                     |
| 5                                                    | 11910.00        | 60.3 PK                 | 74.0           | -13.7       | 1.83 H             | 307                  | 48.9             | 11.4                     |
| 6                                                    | 11910.00        | 47.0 AV                 | 54.0           | -7.0        | 1.83 H             | 307                  | 35.6             | 11.4                     |
| 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                                                    | #5925.00        | 72.2 PK                 | 88.2           | -16.0       | 2.25 V             | 57                   | 66.3             | 5.9                      |
| 2                                                    | #5925.00        | 51.7 AV                 | 68.2           | -16.5       | 2.25 V             | 57                   | 45.8             | 5.9                      |
| 3                                                    | *5955.00        | 108.7 PK                |                |             | 2.25 V             | 57                   | 65.3             | 43.4                     |
| 4                                                    | *5955.00        | 99.0 AV                 |                |             | 2.25 V             | 57                   | 55.6             | 43.4                     |
| 5                                                    | 11910.00        | 63.2 PK                 | 74.0           | -10.8       | 2.07 V             | 28                   | 51.8             | 11.4                     |
| 6                                                    | 11910.00        | 49.0 AV                 | 54.0           | -5.0        | 2.07 V             | 28                   | 37.6             | 11.4                     |

#### 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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 45 : 6175 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | *6175.00        | 112.0 PK                |                |             | 2.43 H             | 32                   | 67.5             | 44.5                     |
| 2                                                    | *6175.00        | 102.1 AV                |                |             | 2.43 H             | 32                   | 57.6             | 44.5                     |
| 3                                                    | 12350.00        | 61.4 PK                 | 74.0           | -12.6       | 2.41 H             | 309                  | 50.2             | 11.2                     |
| 4                                                    | 12350.00        | 47.6 AV                 | 54.0           | -6.4        | 2.41 H             | 309                  | 36.4             | 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                                                    | *6175.00        | 108.6 PK                |                |             | 2.23 V             | 55                   | 64.1             | 44.5                     |
| 2                                                    | *6175.00        | 98.7 AV                 |                |             | 2.23 V             | 55                   | 54.2             | 44.5                     |
| 3                                                    | 12350.00        | 62.6 PK                 | 74.0           | -11.4       | 1.35 V             | 42                   | 51.4             | 11.2                     |
| 4                                                    | 12350.00        | 48.9 AV                 | 54.0           | -5.1        | 1.35 V             | 42                   | 37.7             | 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, the limit was restricted at the RF Output Power.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 93 : 6415 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | *6415.00        | 113.3 PK                |                |             | 2.23 H             | 71                   | 67.4             | 45.9                     |
| 2                                                    | *6415.00        | 103.4 AV                |                |             | 2.23 H             | 71                   | 57.5             | 45.9                     |
| 3                                                    | #12830.00       | 62.1 PK                 | 88.2           | -26.1       | 2.17 H             | 53                   | 50.8             | 11.3                     |
| 4                                                    | #12830.00       | 48.5 AV                 | 68.2           | -19.7       | 2.17 H             | 53                   | 37.2             | 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                                                    | *6415.00        | 110.2 PK                |                |             | 2.28 V             | 51                   | 64.3             | 45.9                     |
| 2                                                    | *6415.00        | 100.2 AV                |                |             | 2.28 V             | 51                   | 54.3             | 45.9                     |
| 3                                                    | #12830.00       | 64.6 PK                 | 88.2           | -23.6       | 3.50 V             | 29                   | 53.3             | 11.3                     |
| 4                                                    | #12830.00       | 50.4 AV                 | 68.2           | -17.8       | 3.50 V             | 29                   | 39.1             | 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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 97 : 6435 MHz                                                     |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | *6435.00        | 113.3 PK                |                |             | 2.28 H             | 360                  | 67.4             | 45.9                     |
| 2                                                    | *6435.00        | 103.2 AV                |                |             | 2.28 H             | 360                  | 57.3             | 45.9                     |
| 3                                                    | #12870.00       | 64.8 PK                 | 88.2           | -23.4       | 2.52 H             | 308                  | 53.4             | 11.4                     |
| 4                                                    | #12870.00       | 51.0 AV                 | 68.2           | -17.2       | 2.52 H             | 308                  | 39.6             | 11.4                     |
| 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                                                    | *6435.00        | 110.3 PK                |                |             | 2.24 V             | 59                   | 64.4             | 45.9                     |
| 2                                                    | *6435.00        | 100.3 AV                |                |             | 2.24 V             | 59                   | 54.4             | 45.9                     |
| 3                                                    | #12870.00       | 66.4 PK                 | 88.2           | -21.8       | 3.26 V             | 325                  | 55.0             | 11.4                     |
| 4                                                    | #12870.00       | 53.2 AV                 | 68.2           | -15.0       | 3.26 V             | 325                  | 41.8             | 11.4                     |

**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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 105 : 6475 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | *6475.00        | 113.5 PK                |                |             | 2.31 H             | 70                   | 67.3             | 46.2                     |
| 2                                                    | *6475.00        | 103.5 AV                |                |             | 2.31 H             | 70                   | 57.3             | 46.2                     |
| 3                                                    | #12950.00       | 62.1 PK                 | 88.2           | -26.1       | 2.46 H             | 303                  | 50.9             | 11.2                     |
| 4                                                    | #12950.00       | 48.8 AV                 | 68.2           | -19.4       | 2.46 H             | 303                  | 37.6             | 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                                                    | *6475.00        | 110.2 PK                |                |             | 2.21 V             | 58                   | 64.0             | 46.2                     |
| 2                                                    | *6475.00        | 100.1 AV                |                |             | 2.21 V             | 58                   | 53.9             | 46.2                     |
| 3                                                    | #12950.00       | 65.4 PK                 | 88.2           | -22.8       | 3.25 V             | 324                  | 54.2             | 11.2                     |
| 4                                                    | #12950.00       | 52.1 AV                 | 68.2           | -16.1       | 3.25 V             | 324                  | 40.9             | 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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 113 : 6515 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | *6515.00        | 113.8 PK                |                |             | 2.36 H             | 72                   | 67.4             | 46.4                     |
| 2                                                    | *6515.00        | 103.6 AV                |                |             | 2.36 H             | 72                   | 57.2             | 46.4                     |
| 3                                                    | #13030.00       | 67.7 PK                 | 88.2           | -20.5       | 2.47 H             | 305                  | 56.5             | 11.2                     |
| 4                                                    | #13030.00       | 53.5 AV                 | 68.2           | -14.7       | 2.47 H             | 305                  | 42.3             | 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                                                    | *6515.00        | 110.2 PK                |                |             | 2.23 V             | 52                   | 63.8             | 46.4                     |
| 2                                                    | *6515.00        | 100.2 AV                |                |             | 2.23 V             | 52                   | 53.8             | 46.4                     |
| 3                                                    | #13030.00       | 69.2 PK                 | 88.2           | -19.0       | 3.25 V             | 26                   | 58.0             | 11.2                     |
| 4                                                    | #13030.00       | 55.8 AV                 | 68.2           | -12.4       | 3.25 V             | 26                   | 44.6             | 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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 117 : 6535 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | *6535.00        | 113.6 PK                |                |             | 2.34 H             | 71                   | 67.2             | 46.4                     |
| 2                                                    | *6535.00        | 103.5 AV                |                |             | 2.34 H             | 71                   | 57.1             | 46.4                     |
| 3                                                    | #13070.00       | 69.3 PK                 | 88.2           | -18.9       | 2.47 H             | 306                  | 57.8             | 11.5                     |
| 4                                                    | #13070.00       | 54.3 AV                 | 68.2           | -13.9       | 2.47 H             | 306                  | 42.8             | 11.5                     |
| 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                                                    | *6535.00        | 110.0 PK                |                |             | 2.22 V             | 57                   | 63.6             | 46.4                     |
| 2                                                    | *6535.00        | 100.0 AV                |                |             | 2.22 V             | 57                   | 53.6             | 46.4                     |
| 3                                                    | #13070.00       | 71.2 PK                 | 88.2           | -17.0       | 3.17 V             | 26                   | 59.7             | 11.5                     |
| 4                                                    | #13070.00       | 56.9 AV                 | 68.2           | -11.3       | 3.17 V             | 26                   | 45.4             | 11.5                     |

**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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

|                        |                |                                          |                                                                      |
|------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>         | 802.11a        | <b>Channel</b>                           | CH 149 : 6695 MHz                                                    |
| <b>Frequency Range</b> | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=10 Hz, DET=Peak |
| <b>Input Power</b>     | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 22 °C, 68% RH                                                        |
| <b>Tested By</b>       | Greg Lin       |                                          |                                                                      |

| 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                                                    | *6695.00        | 112.4 PK                |                |             | 2.35 H             | 73                   | 65.8             | 46.6                     |
| 2                                                    | *6695.00        | 102.3 AV                |                |             | 2.35 H             | 73                   | 55.7             | 46.6                     |
| 3                                                    | 13390.00        | 68.0 PK                 | 74.0           | -6.0        | 2.49 H             | 306                  | 56.8             | 11.2                     |
| 4                                                    | 13390.00        | 51.3 AV                 | 54.0           | -2.7        | 2.49 H             | 306                  | 40.1             | 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                                                    | *6695.00        | 109.0 PK                |                |             | 2.28 V             | 55                   | 62.4             | 46.6                     |
| 2                                                    | *6695.00        | 98.9 AV                 |                |             | 2.28 V             | 55                   | 52.3             | 46.6                     |
| 3                                                    | 13390.00        | 69.0 PK                 | 74.0           | -5.0        | 3.19 V             | 28                   | 57.8             | 11.2                     |
| 4                                                    | 13390.00        | 53.6 AV                 | 54.0           | -0.4        | 3.19 V             | 28                   | 42.4             | 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, the limit was restricted at the RF Output Power.