# FCC Test Report

**Report No.:** RFBHQC-WTW-P22070552-3

**FCC ID:** XCNUBN2315

**Test Model:** UBN2315

**Received Date:** 2022/7/28

**Test Date:** 2022/11/8 ~ 2022/12/19

**Issued Date:** 2023/2/3

**Applicant:** Ubee Interactive Holding Corp. Taiwan Branch

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

**FCC Registration / Designation Number:** 788550 / TW0003

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## Release Control Record

| Issue No. | Description | Date Issued |
|---|---|---|
| RFBHQC-WTW-P22070552-3 | Original Release | 2023/2/3 |

## 1 Certificate of Conformity

**Product:** GPON IAD

**Brand:** altice

**Test Model:** UBN2315

**Sample Status:** Mass product

**Applicant:** Ubee Interactive Holding Corp. Taiwan Branch

**Test Date:** 2022/11/8 ~ 2022/12/19

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10-2013

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

**Prepared by :** Vera Huang , **Date:** 2023/2/3

Vera Huang / Specialist

**Approved by :** Jeremy Lin , **Date:** 2023/2/3

Jeremy Lin / Project Engineer

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) | | | |
|---|---|---|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.407(b)(9) | AC Power Conducted Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -12.47dB at 0.15000MHz. |
| 15.407(b)(6)(9) | Radiated Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -0.2dB at 7125.00MHz. |
| 15.407(b)(7) | In-Band Emission (Mask) | Pass | Meet the requirement of limit. |
| 15.407(a)(6) | Max Average Transmit Power | Pass | Meet the requirement of limit. |
| 15.407(a)(10) | Emission Bandwidth Measurement | Pass | Meet the requirement of limit. |
| 15.407(a)(6) | Peak Power Spectral Density | Pass | Meet the requirement of limit. |
| 15.407 (d)(6) | Contention-based Protocol. | Pass | Meet the requirement of limit. |
| 15.407(g) | Frequency Stability | Pass | Meet the requirement of limit. |
| 15.407(a)(7)(8) | Dual Client- Proper Power Adjustment | N/A | Device associates with low power indoor AP only. |
| 15.407(d)(5) | Operational restrictions for 6 GHz U-NII devices | Pass | Declaration by applicant |
| 15.203 | Antenna Requirement | Pass | Antenna connector is ipex(MHF) not a standard connector. |

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

### 2.1 Measurement Uncertainty

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

| Measurement | Specification | Expanded Uncertainty (k=2) (±) |
|---|---|---|
| AC Power Conducted Emissions | 9 kHz ~ 30 MHz | 2.99 dB |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz | 3.59 dB |
| | 30MHz ~ 1000MHz | 3.64 dB |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz | 2.29 dB |
| | 18 GHz ~ 40 GHz | 2.29 dB |

### 2.2 Modification Record

There were no modifications required for compliance.

# 3 General Information

## 3.1 General Description of EUT

| | |
|---|---|
| Product | GPON IAD |
| Brand | altice |
| Test Model | UBN2315 |
| Status of EUT | Mass product |
| Power Supply Rating | 12Vdc from power adapter |
| Modulation Type | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM<br>1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA |
| Modulation Technology | OFDM, OFDMA |
| Transfer Rate | 802.11a: 54/48/36/24/18/12/9/6Mbps<br>802.11ax: up to 4803.9Mbps |
| Operating Frequency | 5955 ~ 6415MHz, 6435 ~ 6525MHz, 6535 ~ 6865MHz, 6875 ~ 7115MHz |
| Number of Channel | 802.11a/ax (HE20): 59<br>802.11ax (HE40): 29<br>802.11ax (HE80): 14<br>802.11ax (HE160): 7 |
| Output Power | **CDD Mode:**<br>5.955 GHz ~ 6.415 GHz: EIRP : 171.396 mW (22.34 dBm)<br>6.435 GHz ~ 6.525 GHz: EIRP : 138.038 mW (21.40 dBm)<br>6.535 GHz ~ 6.865 GHz: EIRP : 164.059 mW (22.15 dBm)<br>6.875 GHz ~ 7.115 GHz: EIRP : 181.97 mW (22.60 dBm)<br>**Beamforming Mode:**<br>5.955 GHz ~ 6.415 GHz: EIRP : 260.016 mW (24.15 dBm)<br>6.435 GHz ~ 6.525 GHz: EIRP : 190.108 mW (22.79 dBm)<br>6.535 GHz ~ 6.865 GHz: EIRP : 256.448 mW (24.09 dBm)<br>6.875 GHz ~ 7.115 GHz: EIRP : 257.04 mW (24.10 dBm) |
| EUT Category | Indoor AP |

Note:

1. The EUT has three radios as following table:

| Radio 1 | Radio 2 | Radio 3 |
|---|---|---|
| WLAN (2.4 GHz) | WLAN (5 GHz) | WLAN (6 GHz) |

2. Simultaneously transmission condition.

| Condition | Technology | | |
|---|---|---|---|
| 1 | WLAN (2.4 GHz) | WLAN (5 GHz) | WLAN (6 GHz) |
| Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found. | | | |

3. The EUT uses following accessories.

| AC Adapter | | |
|---|---|---|
| Brand | Model | Specification |
| MOSO | MSS-V2500WR120-030E0-US | AC Input : 100-240V~50/60Hz 1.0A max.<br>DC Output : 12V 2.5A<br>DC Output Cable : Non-shielded, without core, 1.8m |

4. The EUT incorporates a MIMO function:

| 6GHz Band | | |
|---|---|---|
| Modulation Mode | Tx & Rx configuration | |
| 802.11a | 4TX | 4RX |
| 802.11ax (HE20) | 4TX | 4RX |
| 802.11ax (HE40) | 4TX | 4RX |
| 802.11ax (HE80) | 4TX | 4RX |
| 802.11ax (HE160) | 4TX | 4RX |

Note:
1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. Partial RU (resource unit) and channel puncturing configurations are not supported.

5. The antenna information is listed as below.

| Antenna No. | RF Chain No. | Brand | Model | Antenna Net Gain (dBi) | Frequency Range | Antenna Type | Connector Type |
|---|---|---|---|---|---|---|---|
| 1 | 2.4G Chain 0 / 5G Chain 3 | Whayu | N/A | 3.5 | 2.4~2.4835GHz | Dipole | ipex(MHF) |
| | | | | 4 | 5.15~5.85GHz | Dipole | ipex(MHF) |
| 2 | 5G Chain 1 | Whayu | N/A | 3.4 | 5.15~5.85GHz | Dipole | ipex(MHF) |
| 3 | 5G Chain 0 | Whayu | N/A | 3.4 | 5.15~5.85GHz | Dipole | ipex(MHF) |
| 4 | 2.4G Chain 1 / 5G Chain 2 | Whayu | N/A | 3.3 | 2.4~2.4835GHz | Dipole | ipex(MHF) |
| | | | | 3.8 | 5.15~5.85GHz | Dipole | ipex(MHF) |
| 5 | Chain 4 | Whayu | N/A | 3.5 | 5.925~7.125GHz | Dipole | ipex(MHF) |
| 6 | Chain 5 | Whayu | N/A | 3.4 | 5.925~7.125GHz | Dipole | ipex(MHF) |
| 7 | Chain 6 | Whayu | N/A | 3.4 | 5.925~7.125GHz | Dipole | ipex(MHF) |
| 8 | Chain 7 | Whayu | N/A | 3.4 | 5.925~7.125GHz | Dipole | ipex(MHF) |

* Detail antenna specification please refer to antenna datasheet or an antenna gain measurement report.

6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

## 3.2 Description of Test Modes

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 channel is 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 | | | | |

3 channels are provided for 802.11ax (HE160):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---|---|---|---|---|---|
| 15 | 6025 MHz | 47 | 6185 MHz | 79 | 6345 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 are provided for 802.11ax (HE80):

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

1 channel is provided for 802.11ax (HE160):

| Channel | Frequency |
|---|---|
| *111 | 6505 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 | | | | | | |

2 channels are provided for 802.11ax (HE160):

| Channel | Frequency | Channel | Frequency |
|---|---|---|---|
| 143 | 6665 MHz | *175 | 6825 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 channel is provided for 802.11ax (HE80):

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

1 channel is provided for 802.11ax (HE160):

| Channel | Frequency |
|---|---|
| 207 | 6985 MHz |

Note: * mean this's straddle channel.

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable to | | | | | | Description |
|---|---|---|---|---|---|---|---|
| | RE≥1G | RE<1G | IBE | PLC | CBP | APCM | |
| - | √ | √ | √ | √ | √ | √ | - |

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz

**PLC:** Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

**IBE:** In-Band Emission (MASK) **CBP:**Contention Based Protocol

Note: The EUT is designed to be positioned on the Z-plane only.

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

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

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

| Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|---|---|---|---|---|---|---|
| 802.11a | 5955-6415 | 1 to 93 | 1, 45, 93 | OFDM | BPSK | 6Mb/s |
| | 6435-6525 | 97 to 113 | 97, 105, 113 | OFDM | BPSK | 6Mb/s |
| | 6535-6865 | 117 to 185 | 117, 149, 181, 185 | OFDM | BPSK | 6Mb/s |
| | 6875-7115 | 189 to 233 | 209, 233 | OFDM | BPSK | 6Mb/s |
| 802.11ax (HE20) | 5955-6415 | 1 to 93 | 1, 45, 93 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 97 to 113 | 97, 105, 113 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 117 to 185 | 117, 149, 181, 185 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 189 to 233 | 209, 233 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | 5955-6415 | 3 to 91 | 3, 43, 91 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 99 to 115 | 99, 107, 115 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 123 to 187 | 123, 155, 179, 187 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 195 to 227 | 211, 227 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | 5955-6415 | 7 to 87 | 7, 39, 87 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 103 to 119 | 103, 119 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 135 to 183 | 151, 183 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 199 to 215 | 199, 215 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | 5955-6415 | 15 to 79 | 15, 47, 79 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 111 | 111 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 143 to 175 | 143, 175 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 207 | 207 | OFDMA | BPSK | MCS0 |

## Radiated Emission Measurement (Below 1GHz):

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

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

| Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|---|---|---|---|---|---|---|
| 802.11ax (HE160) | 5955-6415 | 15 to 79 | 79 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 111 | | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 143 to 175 | | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 207 | | OFDMA | BPSK | MCS0 |

## In-Band Emission (MASK) Measurement:

| Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|---|---|---|---|---|---|---|
| 802.11a | 5955-6415 | 1 to 93 | 1, 45, 93 | OFDM | BPSK | 6Mb/s |
| | 6435-6525 | 97 to 113 | 97, 105, 113 | OFDM | BPSK | 6Mb/s |
| | 6535-6865 | 117 to 185 | 117, 149, 181, 185 | OFDM | BPSK | 6Mb/s |
| | 6875-7115 | 189 to 233 | 209, 233 | OFDM | BPSK | 6Mb/s |
| 802.11ax (HE20) | 5955-6415 | 1 to 93 | 1, 45, 93 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 97 to 113 | 97, 105, 113 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 117 to 185 | 117, 149, 181, 185 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 189 to 233 | 209, 233 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | 5955-6415 | 3 to 91 | 3, 43, 91 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 99 to 115 | 99, 107, 115 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 123 to 187 | 123, 155, 179, 187 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 195 to 227 | 211, 227 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | 5955-6415 | 7 to 87 | 7, 39, 87 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 103 to 119 | 103, 119 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 135 to 183 | 151, 183 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 199 to 215 | 199, 215 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | 5955-6415 | 15 to 79 | 15, 47, 79 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 111 | 111 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 143 to 175 | 143, 175 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 207 | 207 | OFDMA | BPSK | MCS0 |

## Power Line Conducted Emission Measurement:

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

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

| Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|---|---|---|---|---|---|---|
| 802.11ax (HE160) | 5955-6415 | 15 to 79 | 79 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 111 | | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 143 to 175 | | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 207 | | OFDMA | BPSK | MCS0 |

**Antenna Port Conducted Measurement:**

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

| Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|---|---|---|---|---|---|---|
| 802.11a | 5955-6415 | 1 to 93 | 1, 45, 93 | OFDM | BPSK | 6Mb/s |
| | 6435-6525 | 97 to 113 | 97, 105, 113 | OFDM | BPSK | 6Mb/s |
| | 6535-6865 | 117 to 185 | 117, 149, 181, 185 | OFDM | BPSK | 6Mb/s |
| | 6875-7115 | 189 to 233 | 209, 233 | OFDM | BPSK | 6Mb/s |
| 802.11ax (HE20) | 5955-6415 | 1 to 93 | 1, 45, 93 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 97 to 113 | 97, 105, 113 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 117 to 185 | 117, 149, 181, 185 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 189 to 233 | 209, 233 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE40) | 5955-6415 | 3 to 91 | 3, 43, 91 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 99 to 115 | 99, 107, 115 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 123 to 187 | 123, 155, 179, 187 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 195 to 227 | 211, 227 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE80) | 5955-6415 | 7 to 87 | 7, 39, 87 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 103 to 119 | 103, 119 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 135 to 183 | 151, 183 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 199 to 215 | 199, 215 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | 5955-6415 | 15 to 79 | 15, 47, 79 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 111 | 111 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 143 to 175 | 143, 175 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 207 | 207 | OFDMA | BPSK | MCS0 |

**Contention Based Protocol Measurement:**

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

| Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|---|---|---|---|---|---|---|
| 802.11ax (HE20) | 5955-6415 | 1 to 93 | 45 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 97 to 113 | 105 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 117 to 185 | 149 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 189 to 233 | 209 | OFDMA | BPSK | MCS0 |
| 802.11ax (HE160) | 5955-6415 | 15 to 79 | 47 | OFDMA | BPSK | MCS0 |
| | 6435-6525 | 111 | 111 | OFDMA | BPSK | MCS0 |
| | 6535-6865 | 143 to 175 | 143 | OFDMA | BPSK | MCS0 |
| | 6875-7115 | 207 | 207 | OFDMA | BPSK | MCS0 |

**Test Condition:**

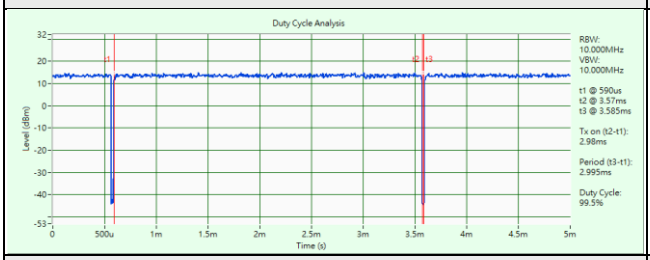
| Applicable to | Environmental Conditions | Input Power | Tested by |
|---|---|---|---|
| RE≥1G | 23 deg. C, 66% RH | 120Vac, 60Hz | Titan Hsu |
| RE<1G | 23 deg. C, 66% RH | 120Vac, 60Hz | Titan Hsu |
| PLC | 23 deg. C, 66% RH | 120Vac, 60Hz | Titan Hsu |
| APCM | 25 deg. C, 60% RH | 120Vac, 60Hz | Jisyong Wang |

## 3.3 Duty Cycle of Test Signal

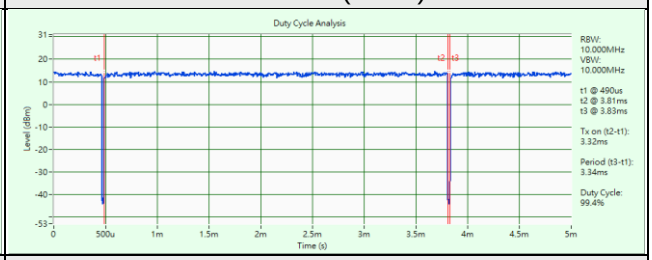
Duty cycle of test signal is ≥ 98%, duty factor is not required.

802.11a: Duty cycle = 2.98ms/2.995ms = 0.995
802.11ax (HE20): Duty cycle = 3.32ms/3.34ms = 0.994
802.11ax (HE40): Duty cycle = 2.505ms/2.525ms = 0.992
802.11ax (HE80): Duty cycle = 2.46ms/2.48ms = 0.992
802.11ax (HE160): Duty cycle = 1.905ms/1.92ms = 0.992

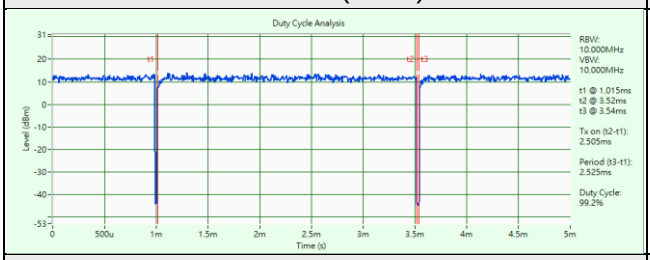
802.11a



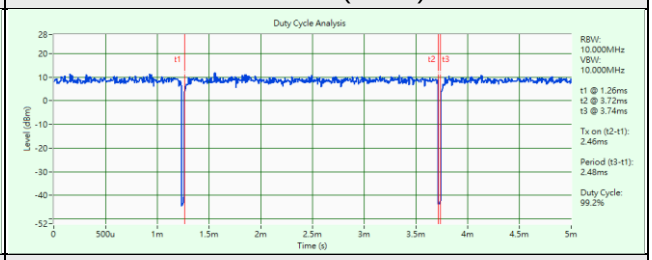

802.11ax (HE20)



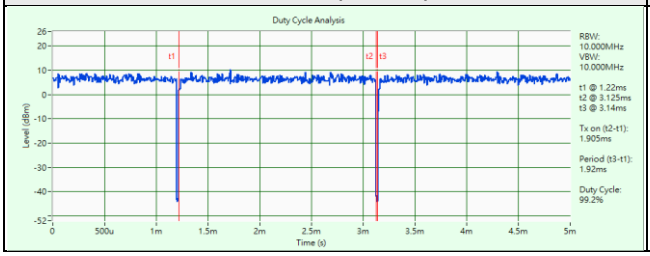

802.11ax (HE40)




802.11ax (HE80)




802.11ax (HE160)



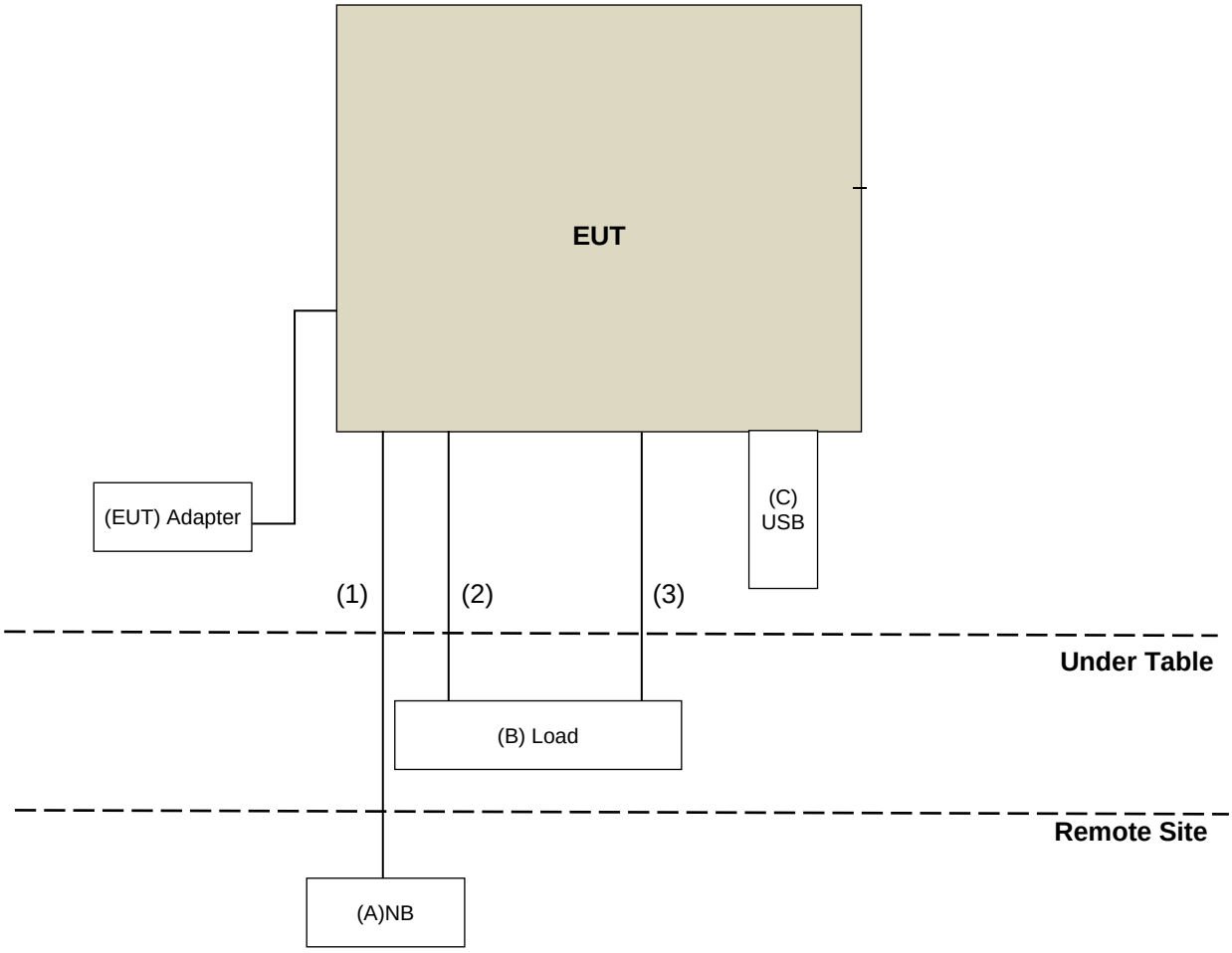
### 3.4 Description of Support Units

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

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|---|---|---|---|---|---|---|
| A | Laptop | DELL | E5430 | 2RL3YW1 | N/A | Provided by Lab |
| B | Load | N/A | N/A | N/A | N/A | Provided by Lab |
| C | USB Flash | Sandisk | SDDDC3-032G | N/A | N/A | Provided by Lab |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|---|---|---|---|---|---|---|
| 1 | RJ-45 Cable | 1 | 10 | No | 0 | Provided by Lab |
| 2 | RJ-45 Cable | 3 | 1 | No | 0 | Provided by Lab |
| 3 | RJ-11 Cable | 2 | 1.5 | No | 0 | Provided by Lab |

#### 3.4.1 Configuration of System under Test



### 3.5 General Description of Applied Standards and References

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

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

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

**References Test Guidance:**
**KDB 987594 D02 EMC Measurement v01r01**
**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**
**KDB 662911 D01 Multiple Transmitter Output v02r01**

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

# 4 Test Types and Results

## 4.1 Radiated Emission and Bandedge Measurement

### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

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

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

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

### 4.1.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|---|---|---|---|---|
| Test Receiver<br>R&S | ESCI | 100424 | 2021/12/30 | 2022/12/29 |
| Spectrum Analyzer<br>R&S | FSW43 | 101582 | 2022/4/13 | 2023/4/12 |
| Loop Antenna<br>TESEQ | HLA 6121 | 45745 | 2022/7/27 | 2023/7/26 |
| Loop Antenna<br>EMCI | EM-6879 | 269 | 2022/9/19 | 2023/9/18 |
| Pre-amplifier<br>EMCI | EMC001340 | 980201 | 2022/9/23 | 2023/9/22 |
| RF Coaxial Cable<br>EMCI | 5D-NM-BM | 140903+140902 | 2022/1/15 | 2023/1/14 |
| Pre_Amplifier<br>Agilent | 8447D | 2944A10631 | 2022/5/14 | 2023/5/13 |
| Bi_Log Antenna<br>Schwarbeck | VULB9168 | 9168-155 | 2022/10/21 | 2023/10/20 |
| RF Coaxial Cable<br>WOKEN | 8D-FB | Cable-CH4-01 | 2022/7/9 | 2023/7/8 |
| Horn Antenna<br>Schwarzbeck | 9120D | 9120D-408 | 2021/11/14 | 2022/11/13 |
| | | | 2022/11/13 | 2023/11/12 |
| Pre_Amplifier<br>KEYSIGHT | 83017A | MY53270295 | 2022/5/14 | 2023/5/13 |
| RF cable<br>HUBER+SUHNER | Sucoflex 104 | MY 13380+295012/04 | 2022/5/14 | 2023/5/13 |
| RF Coaxial Cable<br>HUBER+SUHNER | SUCOFLEX 104 | Cable-CH4-03(250724) | 2022/5/14 | 2023/5/13 |
| Pre-Ammlifier<br>EMCI | EMC 184045 | 980116 | 2022/10/1 | 2023/9/30 |
| Horn Antenna<br>Schwarzbeck | BBHA 9170 | BBHA9170241 | 2022/10/20 | 2023/10/19 |
| Boresight antenna tower fixture<br>BV | BAF-02 | 5 | NA | NA |
| Horn Antenna<br>Schwarzbeck | BBHA 9170 | 9170-480 | 2021/11/14 | 2022/11/13 |
| | | | 2022/11/13 | 2023/11/12 |
| Horn Antenna<br>Schwarzbeck | BBHA 9170 | BBHA9170243 | 2021/11/14 | 2022/11/13 |
| | | | 2022/11/13 | 2023/11/12 |
| RF Coaxial Cable<br>EMCI | EMC102-KM-KM-3000 | 150929 | 2022/7/9 | 2023/7/8 |
| RF Coaxial Cable<br>EMCI | EMC102-KM-KM-600 | 150928 | 2022/7/9 | 2023/7/8 |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.

### 4.1.3 Test Procedures

**For Radiated emission below 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

**For Radiated emission above 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz. (RBW = 1MHz, VBW = 10Hz)

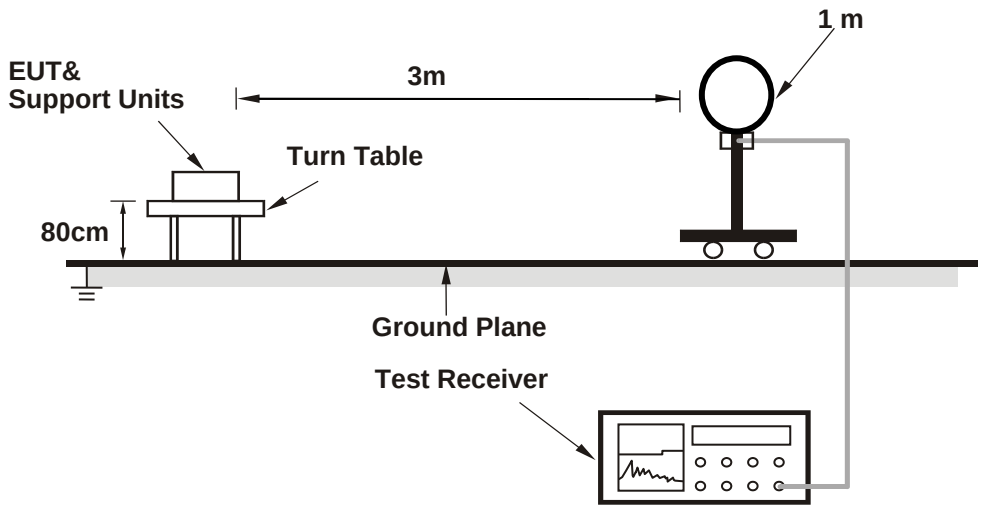
4. All modes of operation were investigated and the worst-case emissions are reported.

### 4.1.4 Deviation from Test Standard

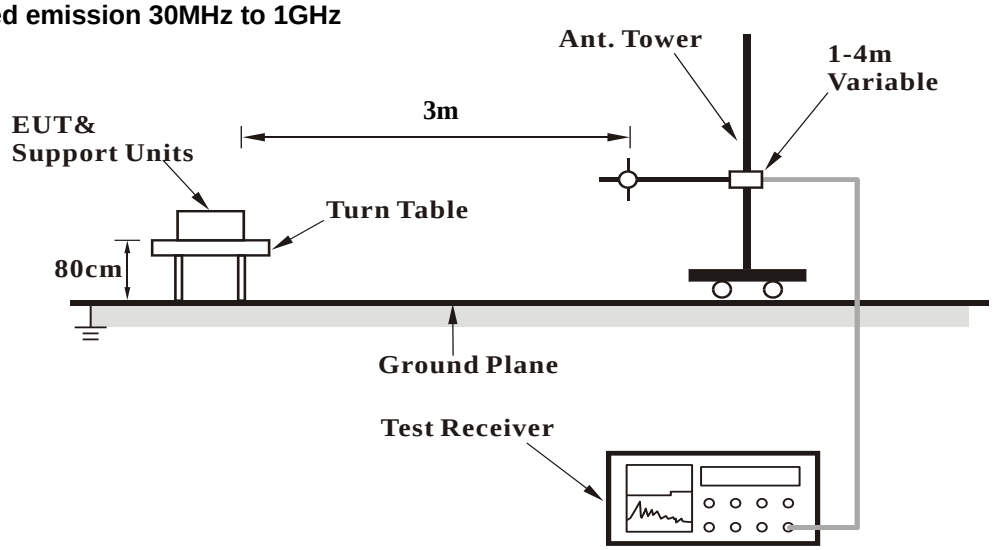
No deviation.

### 4.1.5 Test Setup

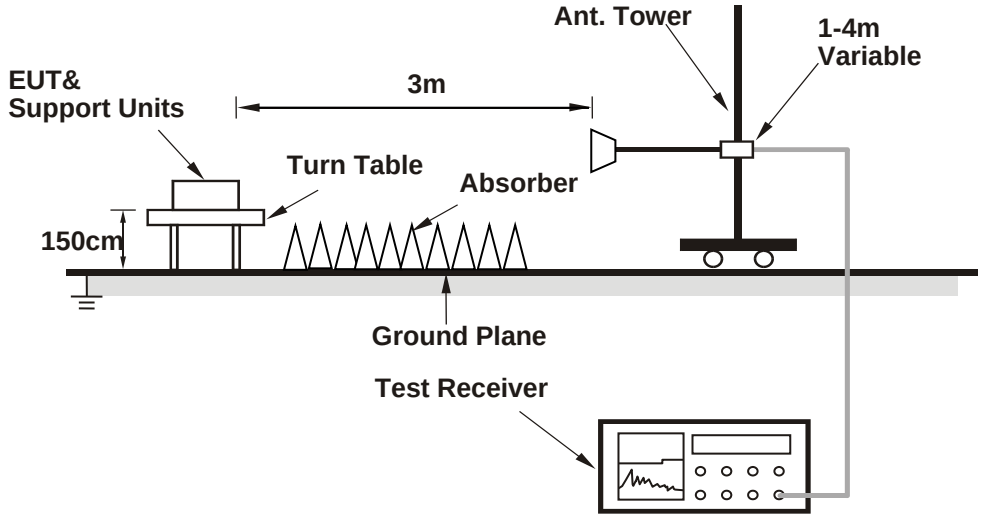
**For Radiated emission below 30MHz**




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



**For Radiated emission above 1GHz**




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

### 4.1.6 EUT Operating Conditions

a. Set the EUT under transmission condition continuously at specific channel frequency.

### 4.1.7 Test Results

**CDD Mode**

Above 1GHz data:

| RF Mode | TX 802.11a 6G | Channel | CH 1：5955 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 61.5 PK | 88.2 | -26.7 | 1.52 H | 255 | 47.6 | 13.9 |
| 2 | #5925.00 | 48.3 AV | 68.2 | -19.9 | 1.52 H | 255 | 34.4 | 13.9 |
| 3 | *5955.00 | 109.7 PK | | | 1.52 H | 255 | 65.4 | 44.3 |
| 4 | *5955.00 | 100.1 AV | | | 1.52 H | 255 | 55.8 | 44.3 |
| 5 | 11910.00 | 62.4 PK | 74.0 | -11.6 | 1.55 H | 275 | 40.6 | 21.8 |
| 6 | 11910.00 | 49.5 AV | 54.0 | -4.5 | 1.55 H | 275 | 27.7 | 21.8 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 61.4 PK | 88.2 | -26.8 | 2.86 V | 34 | 47.5 | 13.9 |
| 2 | #5925.00 | 48.1 AV | 68.2 | -20.1 | 2.86 V | 34 | 34.2 | 13.9 |
| 3 | *5955.00 | 104.6 PK | | | 2.86 V | 34 | 60.3 | 44.3 |
| 4 | *5955.00 | 95.3 AV | | | 2.86 V | 34 | 51.0 | 44.3 |
| 5 | 11910.00 | 62.0 PK | 74.0 | -12.0 | 1.95 V | 285 | 40.2 | 21.8 |
| 6 | 11910.00 | 49.2 AV | 54.0 | -4.8 | 1.95 V | 285 | 27.4 | 21.8 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 45：6175 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6175.00 | 109.3 PK | | | 2.01 H | 308 | 64.8 | 44.5 |
| 2 | *6175.00 | 100.4 AV | | | 2.01 H | 308 | 55.9 | 44.5 |
| 3 | 12350.00 | 62.2 PK | 74.0 | -11.8 | 1.57 H | 277 | 40.5 | 21.7 |
| 4 | 12350.00 | 49.3 AV | 54.0 | -4.7 | 1.57 H | 277 | 27.6 | 21.7 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6175.00 | 104.9 PK | | | 3.00 V | 42 | 60.4 | 44.5 |
| 2 | *6175.00 | 95.3 AV | | | 3.00 V | 42 | 50.8 | 44.5 |
| 3 | 12350.00 | 61.9 PK | 74.0 | -12.1 | 1.95 V | 289 | 40.2 | 21.7 |
| 4 | 12350.00 | 49.0 AV | 54.0 | -5.0 | 1.95 V | 289 | 27.3 | 21.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11a 6G | Channel | CH 93：6415 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6415.00 | 110.3 PK | | | 2.04 H | 250 | 64.7 | 45.6 |
| 2 | *6415.00 | 100.9 AV | | | 2.04 H | 250 | 55.3 | 45.6 |
| 3 | #12830.00 | 63.7 PK | 88.2 | -24.5 | 1.59 H | 268 | 40.5 | 23.2 |
| 4 | #12830.00 | 50.7 AV | 68.2 | -17.5 | 1.59 H | 268 | 27.5 | 23.2 |
| 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 | *6415.00 | 105.4 PK | | | 2.84 V | 42 | 59.8 | 45.6 |
| 2 | *6415.00 | 95.6 AV | | | 2.84 V | 42 | 50.0 | 45.6 |
| 3 | #12830.00 | 63.4 PK | 88.2 | -24.8 | 1.89 V | 279 | 40.2 | 23.2 |
| 4 | #12830.00 | 50.5 AV | 68.2 | -17.7 | 1.89 V | 279 | 27.3 | 23.2 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 97：6435 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6435.00 | 109.0 PK | | | 2.27 H | 345 | 63.2 | 45.8 |
| 2 | *6435.00 | 99.6 AV | | | 2.27 H | 345 | 53.8 | 45.8 |
| 3 | #12870.00 | 63.9 PK | 88.2 | -24.3 | 1.45 H | 282 | 40.5 | 23.4 |
| 4 | #12870.00 | 50.9 AV | 68.2 | -17.3 | 1.45 H | 282 | 27.5 | 23.4 |
| 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 | 105.7 PK | | | 3.92 V | 77 | 59.9 | 45.8 |
| 2 | *6435.00 | 95.8 AV | | | 3.92 V | 77 | 50.0 | 45.8 |
| 3 | #12870.00 | 63.6 PK | 88.2 | -24.6 | 1.96 V | 278 | 40.2 | 23.4 |
| 4 | #12870.00 | 50.6 AV | 68.2 | -17.6 | 1.96 V | 278 | 27.2 | 23.4 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 105：6475 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6475.00 | 110.6 PK | | | 2.35 H | 345 | 64.5 | 46.1 |
| 2 | *6475.00 | 100.5 AV | | | 2.35 H | 345 | 54.4 | 46.1 |
| 3 | #12950.00 | 63.7 PK | 88.2 | -24.5 | 1.47 H | 285 | 40.4 | 23.3 |
| 4 | #12950.00 | 50.9 AV | 68.2 | -17.3 | 1.47 H | 285 | 27.6 | 23.3 |
| 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 | *6475.00 | 106.3 PK | | | 3.95 V | 72 | 60.2 | 46.1 |
| 2 | *6475.00 | 96.3 AV | | | 3.95 V | 72 | 50.2 | 46.1 |
| 3 | #12950.00 | 63.5 PK | 88.2 | -24.7 | 1.89 V | 285 | 40.2 | 23.3 |
| 4 | #12950.00 | 50.8 AV | 68.2 | -17.4 | 1.89 V | 285 | 27.5 | 23.3 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 113：6515 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6515.00 | 109.9 PK | | | 2.35 H | 341 | 63.5 | 46.4 |
| 2 | *6515.00 | 100.5 AV | | | 2.35 H | 341 | 54.1 | 46.4 |
| 3 | #13030.00 | 63.5 PK | 88.2 | -24.7 | 1.47 H | 286 | 40.4 | 23.1 |
| 4 | #13030.00 | 50.5 AV | 68.2 | -17.7 | 1.47 H | 286 | 27.4 | 23.1 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6515.00 | 106.5 PK | | | 3.99 V | 77 | 60.1 | 46.4 |
| 2 | *6515.00 | 96.6 AV | | | 3.99 V | 77 | 50.2 | 46.4 |
| 3 | #13030.00 | 63.3 PK | 88.2 | -24.9 | 1.89 V | 286 | 40.2 | 23.1 |
| 4 | #13030.00 | 50.2 AV | 68.2 | -18.0 | 1.89 V | 286 | 27.1 | 23.1 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 117：6535 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6535.00 | 110.5 PK | | | 2.42 H | 315 | 64.0 | 46.5 |
| 2 | *6535.00 | 100.6 AV | | | 2.42 H | 315 | 54.1 | 46.5 |
| 3 | #13070.00 | 63.5 PK | 88.2 | -24.7 | 1.65 H | 278 | 40.5 | 23.0 |
| 4 | #13070.00 | 50.5 AV | 68.2 | -17.7 | 1.65 H | 278 | 27.5 | 23.0 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6535.00 | 106.8 PK | | | 3.93 V | 76 | 60.3 | 46.5 |
| 2 | *6535.00 | 97.1 AV | | | 3.93 V | 76 | 50.6 | 46.5 |
| 3 | #13070.00 | 63.2 PK | 88.2 | -25.0 | 1.93 V | 292 | 40.2 | 23.0 |
| 4 | #13070.00 | 50.2 AV | 68.2 | -18.0 | 1.93 V | 292 | 27.2 | 23.0 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 149：6695 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6695.00 | 110.1 PK | | | 2.44 H | 322 | 64.0 | 46.1 |
| 2 | *6695.00 | 100.7 AV | | | 2.44 H | 322 | 54.6 | 46.1 |
| 3 | 13390.00 | 64.7 PK | 74.0 | -9.3 | 1.62 H | 275 | 40.4 | 24.3 |
| 4 | 13390.00 | 51.8 AV | 54.0 | -2.2 | 1.62 H | 275 | 27.5 | 24.3 |
| 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 | *6695.00 | 105.9 PK | | | 3.93 V | 73 | 59.8 | 46.1 |
| 2 | *6695.00 | 96.0 AV | | | 3.93 V | 73 | 49.9 | 46.1 |
| 3 | 13390.00 | 64.5 PK | 74.0 | -9.5 | 1.92 V | 298 | 40.2 | 24.3 |
| 4 | 13390.00 | 51.6 AV | 54.0 | -2.4 | 1.92 V | 298 | 27.3 | 24.3 |

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.

| RF Mode | TX 802.11a 6G | Channel | CH 181：6855 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6855.00 | 109.8 PK | | | 2.43 H | 325 | 63.0 | 46.8 |
| 2 | *6855.00 | 100.3 AV | | | 2.43 H | 325 | 53.5 | 46.8 |
| 3 | #13710.00 | 65.0 PK | 88.2 | -23.2 | 1.63 H | 276 | 40.5 | 24.5 |
| 4 | #13710.00 | 52.1 AV | 68.2 | -16.1 | 1.63 H | 276 | 27.6 | 24.5 |
| 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 | *6855.00 | 106.1 PK | | | 3.91 V | 246 | 59.3 | 46.8 |
| 2 | *6855.00 | 96.1 AV | | | 3.91 V | 246 | 49.3 | 46.8 |
| 3 | #13710.00 | 64.8 PK | 88.2 | -23.4 | 1.88 V | 289 | 40.3 | 24.5 |
| 4 | #13710.00 | 51.8 AV | 68.2 | -16.4 | 1.88 V | 289 | 27.3 | 24.5 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 185：6875 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6875.00 | 109.8 PK | | | 2.27 H | 323 | 63.0 | 46.8 |
| 2 | *6875.00 | 100.5 AV | | | 2.27 H | 323 | 53.7 | 46.8 |
| 3 | #13750.00 | 65.2 PK | 88.2 | -23.0 | 1.45 H | 282 | 40.5 | 24.7 |
| 4 | #13750.00 | 52.2 AV | 68.2 | -16.0 | 1.45 H | 282 | 27.5 | 24.7 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6875.00 | 106.7 PK | | | 3.94 V | 249 | 59.9 | 46.8 |
| 2 | *6875.00 | 96.8 AV | | | 3.94 V | 249 | 50.0 | 46.8 |
| 3 | #13750.00 | 64.9 PK | 88.2 | -23.3 | 1.89 V | 284 | 40.2 | 24.7 |
| 4 | #13750.00 | 51.9 AV | 68.2 | -16.3 | 1.89 V | 284 | 27.2 | 24.7 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 209：6995 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6995.00 | 110.7 PK | | | 2.27 H | 323 | 62.9 | 47.8 |
| 2 | *6995.00 | 101.2 AV | | | 2.27 H | 323 | 53.4 | 47.8 |
| 3 | #13990.00 | 66.0 PK | 88.2 | -22.2 | 1.48 H | 286 | 40.4 | 25.6 |
| 4 | #13990.00 | 53.2 AV | 68.2 | -15.0 | 1.48 H | 286 | 27.6 | 25.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6995.00 | 106.7 PK | | | 3.94 V | 257 | 58.9 | 47.8 |
| 2 | *6995.00 | 97.4 AV | | | 3.94 V | 257 | 49.6 | 47.8 |
| 3 | #13990.00 | 65.8 PK | 88.2 | -22.4 | 1.96 V | 293 | 40.2 | 25.6 |
| 4 | #13990.00 | 52.9 AV | 68.2 | -15.3 | 1.96 V | 293 | 27.3 | 25.6 |

Remarks:

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

| RF Mode | TX 802.11a 6G | Channel | CH 233：7115 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7115.00 | 106.0 PK | | | 2.49 H | 335 | 58.0 | 48.0 |
| 2 | *7115.00 | 97.0 AV | | | 2.49 H | 335 | 49.0 | 48.0 |
| **3** | **#7125.00** | **88.0 PK** | **88.2** | **-0.2** | **2.49 H** | **335** | **71.5** | **16.5** |
| 4 | #7125.00 | 63.9 AV | 68.2 | -4.3 | 2.49 H | 335 | 47.4 | 16.5 |
| 5 | #14230.00 | 66.1 PK | 88.2 | -22.1 | 1.42 H | 279 | 40.2 | 25.9 |
| 6 | #14230.00 | 52.8 AV | 68.2 | -15.4 | 1.42 H | 279 | 26.9 | 25.9 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7115.00 | 100.8 PK | | | 3.94 V | 260 | 52.8 | 48.0 |
| 2 | *7115.00 | 91.5 AV | | | 3.94 V | 260 | 43.5 | 48.0 |
| 3 | #7125.00 | 81.7 PK | 88.2 | -6.5 | 3.94 V | 260 | 65.2 | 16.5 |
| 4 | #7125.00 | 61.2 AV | 68.2 | -7.0 | 3.94 V | 260 | 44.7 | 16.5 |
| 5 | #14230.00 | 65.9 PK | 88.2 | -22.3 | 1.91 V | 295 | 40.0 | 25.9 |
| 6 | #14230.00 | 52.6 AV | 68.2 | -15.6 | 1.91 V | 295 | 26.7 | 25.9 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 1：5955 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 61.6 PK | 88.2 | -26.6 | 2.07 H | 316 | 47.7 | 13.9 |
| 2 | #5925.00 | 48.4 AV | 68.2 | -19.8 | 2.07 H | 316 | 34.5 | 13.9 |
| 3 | *5955.00 | 112.1 PK | | | 2.07 H | 316 | 67.8 | 44.3 |
| 4 | *5955.00 | 100.4 AV | | | 2.07 H | 316 | 56.1 | 44.3 |
| 5 | 11910.00 | 62.2 PK | 74.0 | -11.8 | 1.59 H | 277 | 40.4 | 21.8 |
| 6 | 11910.00 | 49.4 AV | 54.0 | -4.6 | 1.59 H | 277 | 27.6 | 21.8 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 61.4 PK | 88.2 | -26.8 | 3.10 V | 278 | 47.5 | 13.9 |
| 2 | #5925.00 | 48.1 AV | 68.2 | -20.1 | 3.10 V | 278 | 34.2 | 13.9 |
| 3 | *5955.00 | 106.2 PK | | | 3.10 V | 278 | 61.9 | 44.3 |
| 4 | *5955.00 | 93.6 AV | | | 3.10 V | 278 | 49.3 | 44.3 |
| 5 | 11910.00 | 62.0 PK | 74.0 | -12.0 | 1.95 V | 289 | 40.2 | 21.8 |
| 6 | 11910.00 | 49.3 AV | 54.0 | -4.7 | 1.95 V | 289 | 27.5 | 21.8 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 45：6175 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6175.00 | 111.7 PK | | | 2.07 H | 318 | 67.2 | 44.5 |
| 2 | *6175.00 | 100.2 AV | | | 2.07 H | 318 | 55.7 | 44.5 |
| 3 | 12350.00 | 62.1 PK | 74.0 | -11.9 | 1.57 H | 269 | 40.4 | 21.7 |
| 4 | 12350.00 | 49.1 AV | 54.0 | -4.9 | 1.57 H | 269 | 27.4 | 21.7 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6175.00 | 107.4 PK | | | 2.99 V | 43 | 62.9 | 44.5 |
| 2 | *6175.00 | 95.4 AV | | | 2.99 V | 43 | 50.9 | 44.5 |
| 3 | 12350.00 | 61.9 PK | 74.0 | -12.1 | 1.99 V | 287 | 40.2 | 21.7 |
| 4 | 12350.00 | 48.9 AV | 54.0 | -5.1 | 1.99 V | 287 | 27.2 | 21.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 93：6415 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6415.00 | 111.0 PK | | | 2.03 H | 250 | 65.4 | 45.6 |
| 2 | *6415.00 | 100.7 AV | | | 2.03 H | 250 | 55.1 | 45.6 |
| 3 | #12830.00 | 63.7 PK | 88.2 | -24.5 | 1.56 H | 266 | 40.5 | 23.2 |
| 4 | #12830.00 | 50.7 AV | 68.2 | -17.5 | 1.56 H | 266 | 27.5 | 23.2 |
| 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 | *6415.00 | 108.5 PK | | | 3.03 V | 41 | 62.9 | 45.6 |
| 2 | *6415.00 | 95.9 AV | | | 3.03 V | 41 | 50.3 | 45.6 |
| 3 | #12830.00 | 63.5 PK | 88.2 | -24.7 | 1.95 V | 284 | 40.3 | 23.2 |
| 4 | #12830.00 | 50.4 AV | 68.2 | -17.8 | 1.95 V | 284 | 27.2 | 23.2 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 97：6435 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6435.00 | 112.7 PK | | | 2.41 H | 342 | 66.9 | 45.8 |
| 2 | *6435.00 | 101.0 AV | | | 2.41 H | 342 | 55.2 | 45.8 |
| 3 | #12870.00 | 63.8 PK | 88.2 | -24.4 | 1.48 H | 281 | 40.4 | 23.4 |
| 4 | #12870.00 | 51.0 AV | 68.2 | -17.2 | 1.48 H | 281 | 27.6 | 23.4 |
| 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 | 108.4 PK | | | 3.97 V | 69 | 62.6 | 45.8 |
| 2 | *6435.00 | 96.5 AV | | | 3.97 V | 69 | 50.7 | 45.8 |
| 3 | #12870.00 | 63.6 PK | 88.2 | -24.6 | 1.99 V | 288 | 40.2 | 23.4 |
| 4 | #12870.00 | 50.9 AV | 68.2 | -17.3 | 1.99 V | 288 | 27.5 | 23.4 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 105：6475 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6475.00 | 112.1 PK | | | 2.35 H | 337 | 66.0 | 46.1 |
| 2 | *6475.00 | 100.6 AV | | | 2.35 H | 337 | 54.5 | 46.1 |
| 3 | #12950.00 | 63.9 PK | 88.2 | -24.3 | 1.47 H | 278 | 40.6 | 23.3 |
| 4 | #12950.00 | 50.9 AV | 68.2 | -17.3 | 1.47 H | 278 | 27.6 | 23.3 |
| 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 | *6475.00 | 108.7 PK | | | 3.97 V | 72 | 62.6 | 46.1 |
| 2 | *6475.00 | 96.8 AV | | | 3.97 V | 72 | 50.7 | 46.1 |
| 3 | #12950.00 | 63.6 PK | 88.2 | -24.6 | 1.89 V | 289 | 40.3 | 23.3 |
| 4 | #12950.00 | 50.6 AV | 68.2 | -17.6 | 1.89 V | 289 | 27.3 | 23.3 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 113：6515 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6515.00 | 113.2 PK | | | 2.36 H | 339 | 66.8 | 46.4 |
| 2 | *6515.00 | 101.0 AV | | | 2.36 H | 339 | 54.6 | 46.4 |
| 3 | #13030.00 | 63.5 PK | 88.2 | -24.7 | 1.49 H | 279 | 40.4 | 23.1 |
| 4 | #13030.00 | 50.4 AV | 68.2 | -17.8 | 1.49 H | 279 | 27.3 | 23.1 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6515.00 | 108.9 PK | | | 3.94 V | 76 | 62.5 | 46.4 |
| 2 | *6515.00 | 97.1 AV | | | 3.94 V | 76 | 50.7 | 46.4 |
| 3 | #13030.00 | 63.3 PK | 88.2 | -24.9 | 1.89 V | 286 | 40.2 | 23.1 |
| 4 | #13030.00 | 50.2 AV | 68.2 | -18.0 | 1.89 V | 286 | 27.1 | 23.1 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 117：6535 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6535.00 | 111.7 PK | | | 2.38 H | 312 | 65.2 | 46.5 |
| 2 | *6535.00 | 101.3 AV | | | 2.38 H | 312 | 54.8 | 46.5 |
| 3 | #13070.00 | 63.2 PK | 88.2 | -25.0 | 1.62 H | 275 | 40.2 | 23.0 |
| 4 | #13070.00 | 50.3 AV | 68.2 | -17.9 | 1.62 H | 275 | 27.3 | 23.0 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6535.00 | 108.3 PK | | | 3.91 V | 76 | 61.8 | 46.5 |
| 2 | *6535.00 | 96.9 AV | | | 3.91 V | 76 | 50.4 | 46.5 |
| 3 | #13070.00 | 63.0 PK | 88.2 | -25.2 | 1.96 V | 287 | 40.0 | 23.0 |
| 4 | #13070.00 | 50.0 AV | 68.2 | -18.2 | 1.96 V | 287 | 27.0 | 23.0 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 149：6695 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6695.00 | 111.8 PK | | | 2.38 H | 312 | 65.7 | 46.1 |
| 2 | *6695.00 | 100.1 AV | | | 2.38 H | 312 | 54.0 | 46.1 |
| 3 | 13390.00 | 64.5 PK | 74.0 | -9.5 | 1.63 H | 276 | 40.2 | 24.3 |
| 4 | 13390.00 | 51.7 AV | 54.0 | -2.3 | 1.63 H | 276 | 27.4 | 24.3 |
| 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 | *6695.00 | 106.9 PK | | | 3.91 V | 72 | 60.8 | 46.1 |
| 2 | *6695.00 | 95.4 AV | | | 3.91 V | 72 | 49.3 | 46.1 |
| 3 | 13390.00 | 64.3 PK | 74.0 | -9.7 | 1.87 V | 287 | 40.0 | 24.3 |
| 4 | 13390.00 | 51.6 AV | 54.0 | -2.4 | 1.87 V | 287 | 27.3 | 24.3 |

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.

| RF Mode | TX 802.11ax (HE20) | Channel | CH 181：6855 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6855.00 | 112.0 PK | | | 2.42 H | 325 | 65.2 | 46.8 |
| 2 | *6855.00 | 99.9 AV | | | 2.42 H | 325 | 53.1 | 46.8 |
| 3 | #13710.00 | 64.7 PK | 88.2 | -23.5 | 1.59 H | 275 | 40.2 | 24.5 |
| 4 | #13710.00 | 51.7 AV | 68.2 | -16.5 | 1.59 H | 275 | 27.2 | 24.5 |
| 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 | *6855.00 | 109.6 PK | | | 3.89 V | 260 | 62.8 | 46.8 |
| 2 | *6855.00 | 97.3 AV | | | 3.89 V | 260 | 50.5 | 46.8 |
| 3 | #13710.00 | 64.5 PK | 88.2 | -23.7 | 1.86 V | 285 | 40.0 | 24.5 |
| 4 | #13710.00 | 51.5 AV | 68.2 | -16.7 | 1.86 V | 285 | 27.0 | 24.5 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 185：6875 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6875.00 | 111.9 PK | | | 2.51 H | 328 | 65.1 | 46.8 |
| 2 | *6875.00 | 100.6 AV | | | 2.51 H | 328 | 53.8 | 46.8 |
| 3 | #13750.00 | 65.2 PK | 88.2 | -23.0 | 1.45 H | 277 | 40.5 | 24.7 |
| 4 | #13750.00 | 52.1 AV | 68.2 | -16.1 | 1.45 H | 277 | 27.4 | 24.7 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6875.00 | 109.3 PK | | | 3.94 V | 255 | 62.5 | 46.8 |
| 2 | *6875.00 | 97.2 AV | | | 3.94 V | 255 | 50.4 | 46.8 |
| 3 | #13750.00 | 64.9 PK | 88.2 | -23.3 | 1.89 V | 288 | 40.2 | 24.7 |
| 4 | #13750.00 | 51.8 AV | 68.2 | -16.4 | 1.89 V | 288 | 27.1 | 24.7 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 209：6995 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6995.00 | 112.8 PK | | | 2.51 H | 334 | 65.0 | 47.8 |
| 2 | *6995.00 | 101.1 AV | | | 2.51 H | 334 | 53.3 | 47.8 |
| 3 | #13990.00 | 66.1 PK | 88.2 | -22.1 | 1.44 H | 277 | 40.5 | 25.6 |
| 4 | #13990.00 | 53.1 AV | 68.2 | -15.1 | 1.44 H | 277 | 27.5 | 25.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6995.00 | 108.7 PK | | | 3.95 V | 256 | 60.9 | 47.8 |
| 2 | *6995.00 | 97.2 AV | | | 3.95 V | 256 | 49.4 | 47.8 |
| 3 | #13990.00 | 65.9 PK | 88.2 | -22.3 | 1.92 V | 292 | 40.3 | 25.6 |
| 4 | #13990.00 | 52.8 AV | 68.2 | -15.4 | 1.92 V | 292 | 27.2 | 25.6 |

Remarks:

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

| RF Mode | TX 802.11ax (HE20) | Channel | CH 233：7115 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7115.00 | 103.4 PK | | | 2.52 H | 344 | 55.4 | 48.0 |
| 2 | *7115.00 | 91.3 AV | | | 2.52 H | 344 | 43.3 | 48.0 |
| 3 | #7125.00 | 84.7 PK | 88.2 | -3.5 | 2.52 H | 344 | 68.2 | 16.5 |
| 4 | #7125.00 | 67.9 AV | 68.2 | -0.3 | 2.52 H | 344 | 51.4 | 16.5 |
| 5 | #14230.00 | 65.7 PK | 88.2 | -22.5 | 1.45 H | 275 | 39.8 | 25.9 |
| 6 | #14230.00 | 52.4 AV | 68.2 | -15.8 | 1.45 H | 275 | 26.5 | 25.9 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7115.00 | 98.5 PK | | | 3.95 V | 259 | 50.5 | 48.0 |
| 2 | *7115.00 | 86.2 AV | | | 3.95 V | 259 | 38.2 | 48.0 |
| 3 | #7125.00 | 78.6 PK | 88.2 | -9.6 | 3.95 V | 259 | 62.1 | 16.5 |
| 4 | #7125.00 | 60.7 AV | 68.2 | -7.5 | 3.95 V | 259 | 44.2 | 16.5 |
| 5 | #14230.00 | 65.4 PK | 88.2 | -22.8 | 1.89 V | 287 | 39.5 | 25.9 |
| 6 | #14230.00 | 52.1 AV | 68.2 | -16.1 | 1.89 V | 287 | 26.2 | 25.9 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 3：5965 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 62.0 PK | 88.2 | -26.2 | 2.13 H | 318 | 48.1 | 13.9 |
| 2 | #5925.00 | 49.5 AV | 68.2 | -18.7 | 2.13 H | 318 | 35.6 | 13.9 |
| 3 | *5965.00 | 113.0 PK | | | 2.13 H | 318 | 68.7 | 44.3 |
| 4 | *5965.00 | 100.4 AV | | | 2.13 H | 318 | 56.1 | 44.3 |
| 5 | 11930.00 | 61.9 PK | 74.0 | -12.1 | 1.49 H | 277 | 40.0 | 21.9 |
| 6 | 11930.00 | 48.7 AV | 54.0 | -5.3 | 1.49 H | 277 | 26.8 | 21.9 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 61.7 PK | 88.2 | -26.5 | 3.74 V | 278 | 47.8 | 13.9 |
| 2 | #5925.00 | 49.1 AV | 68.2 | -19.1 | 3.74 V | 278 | 35.2 | 13.9 |
| 3 | *5965.00 | 106.8 PK | | | 3.74 V | 278 | 62.5 | 44.3 |
| 4 | *5965.00 | 94.2 AV | | | 3.74 V | 278 | 49.9 | 44.3 |
| 5 | 11930.00 | 61.6 PK | 74.0 | -12.4 | 1.89 V | 285 | 39.7 | 21.9 |
| 6 | 11930.00 | 48.4 AV | 54.0 | -5.6 | 1.89 V | 285 | 26.5 | 21.9 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 43：6165 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6165.00 | 113.3 PK | | | 2.16 H | 319 | 68.7 | 44.6 |
| 2 | *6165.00 | 100.5 AV | | | 2.16 H | 319 | 55.9 | 44.6 |
| 3 | 12330.00 | 61.8 PK | 74.0 | -12.2 | 1.55 H | 275 | 40.0 | 21.8 |
| 4 | 12330.00 | 48.7 AV | 54.0 | -5.3 | 1.55 H | 275 | 26.9 | 21.8 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6165.00 | 108.4 PK | | | 3.80 V | 203 | 63.8 | 44.6 |
| 2 | *6165.00 | 96.1 AV | | | 3.80 V | 203 | 51.5 | 44.6 |
| 3 | 12330.00 | 61.6 PK | 74.0 | -12.4 | 1.96 V | 285 | 39.8 | 21.8 |
| 4 | 12330.00 | 48.5 AV | 54.0 | -5.5 | 1.96 V | 285 | 26.7 | 21.8 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11ax (HE40) | Channel | CH 91：6405 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6405.00 | 114.0 PK | | | 2.10 H | 359 | 68.5 | 45.5 |
| 2 | *6405.00 | 101.4 AV | | | 2.10 H | 359 | 55.9 | 45.5 |
| 3 | #12810.00 | 63.3 PK | 88.2 | -24.9 | 1.59 H | 278 | 40.1 | 23.2 |
| 4 | #12810.00 | 50.0 AV | 68.2 | -18.2 | 1.59 H | 278 | 26.8 | 23.2 |
| 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 | *6405.00 | 109.3 PK | | | 3.82 V | 194 | 63.8 | 45.5 |
| 2 | *6405.00 | 96.2 AV | | | 3.82 V | 194 | 50.7 | 45.5 |
| 3 | #12810.00 | 63.0 PK | 88.2 | -25.2 | 1.96 V | 286 | 39.8 | 23.2 |
| 4 | #12810.00 | 49.9 AV | 68.2 | -18.3 | 1.96 V | 286 | 26.7 | 23.2 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 99：6445 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6445.00 | 113.7 PK | | | 2.34 H | 341 | 67.8 | 45.9 |
| 2 | *6445.00 | 100.7 AV | | | 2.34 H | 341 | 54.8 | 45.9 |
| 3 | #12890.00 | 63.5 PK | 88.2 | -24.7 | 1.45 H | 282 | 40.0 | 23.5 |
| 4 | #12890.00 | 50.3 AV | 68.2 | -17.9 | 1.45 H | 282 | 26.8 | 23.5 |
| 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 | *6445.00 | 108.3 PK | | | 3.95 V | 68 | 62.4 | 45.9 |
| 2 | *6445.00 | 96.1 AV | | | 3.95 V | 68 | 50.2 | 45.9 |
| 3 | #12890.00 | 63.3 PK | 88.2 | -24.9 | 1.85 V | 279 | 39.8 | 23.5 |
| 4 | #12890.00 | 50.0 AV | 68.2 | -18.2 | 1.85 V | 279 | 26.5 | 23.5 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 107：6485 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6485.00 | 112.8 PK | | | 2.34 H | 339 | 66.6 | 46.2 |
| 2 | *6485.00 | 100.4 AV | | | 2.34 H | 339 | 54.2 | 46.2 |
| 3 | #12970.00 | 63.2 PK | 88.2 | -25.0 | 1.45 H | 277 | 40.0 | 23.2 |
| 4 | #12970.00 | 50.0 AV | 68.2 | -18.2 | 1.45 H | 277 | 26.8 | 23.2 |
| 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 | *6485.00 | 109.2 PK | | | 3.95 V | 73 | 63.0 | 46.2 |
| 2 | *6485.00 | 96.9 AV | | | 3.95 V | 73 | 50.7 | 46.2 |
| 3 | #12970.00 | 63.0 PK | 88.2 | -25.2 | 1.92 V | 283 | 39.8 | 23.2 |
| 4 | #12970.00 | 49.8 AV | 68.2 | -18.4 | 1.92 V | 283 | 26.6 | 23.2 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 115：6525 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6525.00 | 113.5 PK | | | 2.34 H | 336 | 67.0 | 46.5 |
| 2 | *6525.00 | 100.8 AV | | | 2.34 H | 336 | 54.3 | 46.5 |
| 3 | #13050.00 | 63.1 PK | 88.2 | -25.1 | 1.46 H | 275 | 40.1 | 23.0 |
| 4 | #13050.00 | 49.7 AV | 68.2 | -18.5 | 1.46 H | 275 | 26.7 | 23.0 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6525.00 | 109.1 PK | | | 3.94 V | 77 | 62.6 | 46.5 |
| 2 | *6525.00 | 96.9 AV | | | 3.94 V | 77 | 50.4 | 46.5 |
| 3 | #13050.00 | 62.7 PK | 88.2 | -25.5 | 1.87 V | 287 | 39.7 | 23.0 |
| 4 | #13050.00 | 49.5 AV | 68.2 | -18.7 | 1.87 V | 287 | 26.5 | 23.0 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 123：6565 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6565.00 | 111.8 PK | | | 2.48 H | 312 | 65.3 | 46.5 |
| 2 | *6565.00 | 99.9 AV | | | 2.48 H | 312 | 53.4 | 46.5 |
| 3 | #13130.00 | 63.3 PK | 88.2 | -24.9 | 1.58 H | 272 | 40.0 | 23.3 |
| 4 | #13130.00 | 50.3 AV | 68.2 | -17.9 | 1.58 H | 272 | 27.0 | 23.3 |
| 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 | *6565.00 | 109.0 PK | | | 3.86 V | 76 | 62.5 | 46.5 |
| 2 | *6565.00 | 96.0 AV | | | 3.86 V | 76 | 49.5 | 46.5 |
| 3 | #13130.00 | 63.1 PK | 88.2 | -25.1 | 1.93 V | 291 | 39.8 | 23.3 |
| 4 | #13130.00 | 50.0 AV | 68.2 | -18.2 | 1.93 V | 291 | 26.7 | 23.3 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 155：6725 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6725.00 | 112.1 PK | | | 2.47 H | 316 | 65.8 | 46.3 |
| 2 | *6725.00 | 99.9 AV | | | 2.47 H | 316 | 53.6 | 46.3 |
| 3 | #13450.00 | 64.5 PK | 88.2 | -23.7 | 1.55 H | 277 | 40.1 | 24.4 |
| 4 | #13450.00 | 51.2 AV | 68.2 | -17.0 | 1.55 H | 277 | 26.8 | 24.4 |
| 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 | *6725.00 | 108.3 PK | | | 3.86 V | 72 | 62.0 | 46.3 |
| 2 | *6725.00 | 95.9 AV | | | 3.86 V | 72 | 49.6 | 46.3 |
| 3 | #13450.00 | 64.2 PK | 88.2 | -24.0 | 1.92 V | 285 | 39.8 | 24.4 |
| 4 | #13450.00 | 51.1 AV | 68.2 | -17.1 | 1.92 V | 285 | 26.7 | 24.4 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 179：6845 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6845.00 | 112.0 PK | | | 2.49 H | 327 | 65.3 | 46.7 |
| 2 | *6845.00 | 100.1 AV | | | 2.49 H | 327 | 53.4 | 46.7 |
| 3 | #13690.00 | 64.3 PK | 88.2 | -23.9 | 1.55 H | 275 | 39.8 | 24.5 |
| 4 | #13690.00 | 51.2 AV | 68.2 | -17.0 | 1.55 H | 275 | 26.7 | 24.5 |
| 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 | *6845.00 | 108.8 PK | | | 3.87 V | 61 | 62.1 | 46.7 |
| 2 | *6845.00 | 96.1 AV | | | 3.87 V | 61 | 49.4 | 46.7 |
| 3 | #13690.00 | 64.2 PK | 88.2 | -24.0 | 1.93 V | 291 | 39.7 | 24.5 |
| 4 | #13690.00 | 51.0 AV | 68.2 | -17.2 | 1.93 V | 291 | 26.5 | 24.5 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 187：6885 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6885.00 | 112.1 PK | | | 2.48 H | 327 | 65.3 | 46.8 |
| 2 | *6885.00 | 99.9 AV | | | 2.48 H | 327 | 53.1 | 46.8 |
| 3 | #13770.00 | 64.3 PK | 88.2 | -23.9 | 1.47 H | 277 | 39.6 | 24.7 |
| 4 | #13770.00 | 50.9 AV | 68.2 | -17.3 | 1.47 H | 277 | 26.2 | 24.7 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6885.00 | 109.8 PK | | | 3.93 V | 256 | 63.0 | 46.8 |
| 2 | *6885.00 | 96.9 AV | | | 3.93 V | 256 | 50.1 | 46.8 |
| 3 | #13770.00 | 64.2 PK | 88.2 | -24.0 | 1.87 V | 284 | 39.5 | 24.7 |
| 4 | #13770.00 | 50.7 AV | 68.2 | -17.5 | 1.87 V | 284 | 26.0 | 24.7 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 211：7005 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7005.00 | 113.8 PK | | | 2.48 H | 339 | 66.0 | 47.8 |
| 2 | *7005.00 | 100.5 AV | | | 2.48 H | 339 | 52.7 | 47.8 |
| 3 | #14010.00 | 65.0 PK | 88.2 | -23.2 | 1.44 H | 272 | 39.5 | 25.5 |
| 4 | #14010.00 | 51.6 AV | 68.2 | -16.6 | 1.44 H | 272 | 26.1 | 25.5 |
| 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 | *7005.00 | 109.3 PK | | | 3.95 V | 255 | 61.5 | 47.8 |
| 2 | *7005.00 | 96.4 AV | | | 3.95 V | 255 | 48.6 | 47.8 |
| 3 | #14010.00 | 64.8 PK | 88.2 | -23.4 | 1.89 V | 292 | 39.3 | 25.5 |
| 4 | #14010.00 | 51.5 AV | 68.2 | -16.7 | 1.89 V | 292 | 26.0 | 25.5 |

Remarks:

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

| RF Mode | TX 802.11ax (HE40) | Channel | CH 227：7085 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7085.00 | 113.5 PK | | | 2.50 H | 340 | 65.7 | 47.8 |
| 2 | *7085.00 | 100.8 AV | | | 2.50 H | 340 | 53.0 | 47.8 |
| 3 | #7125.00 | 66.2 PK | 88.2 | -22.0 | 2.50 H | 340 | 49.7 | 16.5 |
| 4 | #7125.00 | 53.3 AV | 68.2 | -14.9 | 2.50 H | 340 | 36.8 | 16.5 |
| 5 | #14170.00 | 65.4 PK | 88.2 | -22.8 | 1.42 H | 275 | 39.7 | 25.7 |
| 6 | #14170.00 | 51.9 AV | 68.2 | -16.3 | 1.42 H | 275 | 26.2 | 25.7 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7085.00 | 108.7 PK | | | 4.00 V | 259 | 60.9 | 47.8 |
| 2 | *7085.00 | 96.4 AV | | | 4.00 V | 259 | 48.6 | 47.8 |
| 3 | #7125.00 | 66.0 PK | 88.2 | -22.2 | 4.00 V | 259 | 49.5 | 16.5 |
| 4 | #7125.00 | 53.0 AV | 68.2 | -15.2 | 4.00 V | 259 | 36.5 | 16.5 |
| 5 | #14170.00 | 65.2 PK | 88.2 | -23.0 | 1.89 V | 286 | 39.5 | 25.7 |
| 6 | #14170.00 | 51.7 AV | 68.2 | -16.5 | 1.89 V | 286 | 26.0 | 25.7 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 7：5985 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 63.0 PK | 88.2 | -25.2 | 2.12 H | 319 | 49.1 | 13.9 |
| 2 | #5925.00 | 51.1 AV | 68.2 | -17.1 | 2.12 H | 319 | 37.2 | 13.9 |
| 3 | *5985.00 | 112.5 PK | | | 2.12 H | 319 | 68.2 | 44.3 |
| 4 | *5985.00 | 100.5 AV | | | 2.12 H | 319 | 56.2 | 44.3 |
| 5 | 11970.00 | 61.9 PK | 74.0 | -12.1 | 1.62 H | 282 | 39.8 | 22.1 |
| 6 | 11970.00 | 48.6 AV | 54.0 | -5.4 | 1.62 H | 282 | 26.5 | 22.1 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 62.4 PK | 88.2 | -25.8 | 3.62 V | 280 | 48.5 | 13.9 |
| 2 | #5925.00 | 50.0 AV | 68.2 | -18.2 | 3.62 V | 280 | 36.1 | 13.9 |
| 3 | *5985.00 | 105.7 PK | | | 3.62 V | 280 | 61.4 | 44.3 |
| 4 | *5985.00 | 94.1 AV | | | 3.62 V | 280 | 49.8 | 44.3 |
| 5 | 11970.00 | 61.7 PK | 74.0 | -12.3 | 1.93 V | 282 | 39.6 | 22.1 |
| 6 | 11970.00 | 48.4 AV | 54.0 | -5.6 | 1.93 V | 282 | 26.3 | 22.1 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 39：6145 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6145.00 | 112.7 PK | | | 2.14 H | 319 | 68.1 | 44.6 |
| 2 | *6145.00 | 100.4 AV | | | 2.14 H | 319 | 55.8 | 44.6 |
| 3 | 12290.00 | 61.8 PK | 74.0 | -12.2 | 1.59 H | 285 | 39.7 | 22.1 |
| 4 | 12290.00 | 48.5 AV | 54.0 | -5.5 | 1.59 H | 285 | 26.4 | 22.1 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6145.00 | 107.6 PK | | | 3.92 V | 210 | 63.0 | 44.6 |
| 2 | *6145.00 | 95.4 AV | | | 3.92 V | 210 | 50.8 | 44.6 |
| 3 | 12290.00 | 61.6 PK | 74.0 | -12.4 | 1.96 V | 283 | 39.5 | 22.1 |
| 4 | 12290.00 | 48.3 AV | 54.0 | -5.7 | 1.96 V | 283 | 26.2 | 22.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11ax (HE80) | Channel | CH 87：6385 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6385.00 | 112.5 PK | | | 2.13 H | 357 | 67.1 | 45.4 |
| 2 | *6385.00 | 101.0 AV | | | 2.13 H | 357 | 55.6 | 45.4 |
| 3 | #12770.00 | 62.6 PK | 88.2 | -25.6 | 1.55 H | 281 | 39.6 | 23.0 |
| 4 | #12770.00 | 49.5 AV | 68.2 | -18.7 | 1.55 H | 281 | 26.5 | 23.0 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6385.00 | 108.2 PK | | | 3.97 V | 190 | 62.8 | 45.4 |
| 2 | *6385.00 | 96.4 AV | | | 3.97 V | 190 | 51.0 | 45.4 |
| 3 | #12770.00 | 62.5 PK | 88.2 | -25.7 | 1.96 V | 289 | 39.5 | 23.0 |
| 4 | #12770.00 | 49.4 AV | 68.2 | -18.8 | 1.96 V | 289 | 26.4 | 23.0 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 103：6465 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6465.00 | 112.9 PK | | | 2.34 H | 338 | 66.9 | 46.0 |
| 2 | *6465.00 | 99.8 AV | | | 2.34 H | 338 | 53.8 | 46.0 |
| 3 | #12930.00 | 63.2 PK | 88.2 | -25.0 | 1.44 H | 277 | 39.8 | 23.4 |
| 4 | #12930.00 | 49.9 AV | 68.2 | -18.3 | 1.44 H | 277 | 26.5 | 23.4 |
| 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 | *6465.00 | 108.4 PK | | | 3.96 V | 73 | 62.4 | 46.0 |
| 2 | *6465.00 | 96.4 AV | | | 3.96 V | 73 | 50.4 | 46.0 |
| 3 | #12930.00 | 62.9 PK | 88.2 | -25.3 | 1.92 V | 287 | 39.5 | 23.4 |
| 4 | #12930.00 | 49.7 AV | 68.2 | -18.5 | 1.92 V | 287 | 26.3 | 23.4 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 119：6545 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6545.00 | 112.8 PK | | | 2.51 H | 313 | 66.3 | 46.5 |
| 2 | *6545.00 | 100.3 AV | | | 2.51 H | 313 | 53.8 | 46.5 |
| 3 | #13090.00 | 62.6 PK | 88.2 | -25.6 | 1.52 H | 276 | 39.6 | 23.0 |
| 4 | #13090.00 | 49.3 AV | 68.2 | -18.9 | 1.52 H | 276 | 26.3 | 23.0 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6545.00 | 108.1 PK | | | 3.85 V | 68 | 61.6 | 46.5 |
| 2 | *6545.00 | 96.1 AV | | | 3.85 V | 68 | 49.6 | 46.5 |
| 3 | #13090.00 | 62.5 PK | 88.2 | -25.7 | 1.89 V | 287 | 39.5 | 23.0 |
| 4 | #13090.00 | 49.2 AV | 68.2 | -19.0 | 1.89 V | 287 | 26.2 | 23.0 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 151：6705 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6705.00 | 111.8 PK | | | 2.52 H | 316 | 65.7 | 46.1 |
| 2 | *6705.00 | 99.9 AV | | | 2.52 H | 316 | 53.8 | 46.1 |
| 3 | #13410.00 | 63.8 PK | 88.2 | -24.4 | 1.52 H | 269 | 39.5 | 24.3 |
| 4 | #13410.00 | 50.4 AV | 68.2 | -17.8 | 1.52 H | 269 | 26.1 | 24.3 |
| 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 | *6705.00 | 108.1 PK | | | 3.86 V | 71 | 62.0 | 46.1 |
| 2 | *6705.00 | 96.4 AV | | | 3.86 V | 71 | 50.3 | 46.1 |
| 3 | #13410.00 | 63.6 PK | 88.2 | -24.6 | 1.95 V | 288 | 39.3 | 24.3 |
| 4 | #13410.00 | 50.3 AV | 68.2 | -17.9 | 1.95 V | 288 | 26.0 | 24.3 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 183：6865 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6865.00 | 113.1 PK | | | 2.52 H | 329 | 66.3 | 46.8 |
| 2 | *6865.00 | 100.4 AV | | | 2.52 H | 329 | 53.6 | 46.8 |
| 3 | #13730.00 | 64.4 PK | 88.2 | -23.8 | 1.58 H | 276 | 39.7 | 24.7 |
| 4 | #13730.00 | 50.9 AV | 68.2 | -17.3 | 1.58 H | 276 | 26.2 | 24.7 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6865.00 | 108.6 PK | | | 3.86 V | 63 | 61.8 | 46.8 |
| 2 | *6865.00 | 96.6 AV | | | 3.86 V | 63 | 49.8 | 46.8 |
| 3 | #13410.00 | 63.7 PK | 88.2 | -24.5 | 1.89 V | 285 | 39.4 | 24.3 |
| 4 | #13410.00 | 50.4 AV | 68.2 | -17.8 | 1.89 V | 285 | 26.1 | 24.3 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 199：6945 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6945.00 | 113.2 PK | | | 2.51 H | 326 | 65.8 | 47.4 |
| 2 | *6945.00 | 100.7 AV | | | 2.51 H | 326 | 53.3 | 47.4 |
| 3 | #13890.00 | 64.8 PK | 88.2 | -23.4 | 1.49 H | 283 | 39.5 | 25.3 |
| 4 | #13890.00 | 51.3 AV | 68.2 | -16.9 | 1.49 H | 283 | 26.0 | 25.3 |
| 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 | *6945.00 | 109.1 PK | | | 3.87 V | 256 | 61.7 | 47.4 |
| 2 | *6945.00 | 97.3 AV | | | 3.87 V | 256 | 49.9 | 47.4 |
| 3 | #13890.00 | 64.5 PK | 88.2 | -23.7 | 1.88 V | 285 | 39.2 | 25.3 |
| 4 | #13890.00 | 51.1 AV | 68.2 | -17.1 | 1.88 V | 285 | 25.8 | 25.3 |

Remarks:

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

| RF Mode | TX 802.11ax (HE80) | Channel | CH 215：7025 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *7025.00 | 113.5 PK | | | 2.53 H | 329 | 65.7 | 47.8 |
| 2 | *7025.00 | 101.1 AV | | | 2.53 H | 329 | 53.3 | 47.8 |
| 3 | #7125.00 | 70.5 PK | 88.2 | -17.7 | 2.53 H | 329 | 54.0 | 16.5 |
| 4 | #7125.00 | 55.5 AV | 68.2 | -12.7 | 2.53 H | 329 | 39.0 | 16.5 |
| 5 | #14050.00 | 64.8 PK | 88.2 | -23.4 | 1.46 H | 281 | 39.6 | 25.2 |
| 6 | #14050.00 | 51.3 AV | 68.2 | -16.9 | 1.46 H | 281 | 26.1 | 25.2 |
| 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 | *7025.00 | 109.3 PK | | | 3.87 V | 256 | 61.5 | 47.8 |
| 2 | *7025.00 | 96.6 AV | | | 3.87 V | 256 | 48.8 | 47.8 |
| 3 | #7125.00 | 65.8 PK | 88.2 | -22.4 | 3.87 V | 256 | 49.3 | 16.5 |
| 4 | #7125.00 | 53.5 AV | 68.2 | -14.7 | 3.87 V | 256 | 37.0 | 16.5 |
| 5 | #14050.00 | 64.7 PK | 88.2 | -23.5 | 1.95 V | 297 | 39.5 | 25.2 |
| 6 | #14050.00 | 51.1 AV | 68.2 | -17.1 | 1.95 V | 297 | 25.9 | 25.2 |

Remarks:

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

| RF Mode | TX 802.11ax (HE160) | Channel | CH 15：6025 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 76.2 PK | 88.2 | -12.0 | 2.12 H | 315 | 62.3 | 13.9 |
| 2 | #5925.00 | 55.2 AV | 68.2 | -13.0 | 2.12 H | 315 | 41.3 | 13.9 |
| 3 | *6025.00 | 112.2 PK | | | 2.12 H | 315 | 67.9 | 44.3 |
| 4 | *6025.00 | 99.7 AV | | | 2.12 H | 315 | 55.4 | 44.3 |
| 5 | 12050.00 | 61.6 PK | 74.0 | -12.4 | 1.54 H | 281 | 39.5 | 22.1 |
| 6 | 12050.00 | 48.0 AV | 54.0 | -6.0 | 1.54 H | 281 | 25.9 | 22.1 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | #5925.00 | 70.6 PK | 88.2 | -17.6 | 3.99 V | 200 | 56.7 | 13.9 |
| 2 | #5925.00 | 50.1 AV | 68.2 | -18.1 | 3.99 V | 200 | 36.2 | 13.9 |
| 3 | *6025.00 | 106.4 PK | | | 3.99 V | 200 | 62.1 | 44.3 |
| 4 | *6025.00 | 95.1 AV | | | 3.99 V | 200 | 50.8 | 44.3 |
| 5 | 12050.00 | 61.3 PK | 74.0 | -12.7 | 1.98 V | 287 | 39.2 | 22.1 |
| 6 | 12050.00 | 47.8 AV | 54.0 | -6.2 | 1.98 V | 287 | 25.7 | 22.1 |

Remarks:

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

| RF Mode | TX 802.11ax (HE160) | Channel | CH 47：6185 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6185.00 | 112.4 PK | | | 2.12 H | 320 | 67.9 | 44.5 |
| 2 | *6185.00 | 100.5 AV | | | 2.12 H | 320 | 56.0 | 44.5 |
| 3 | 12370.00 | 61.0 PK | 74.0 | -13.0 | 1.53 H | 283 | 39.4 | 21.6 |
| 4 | 12370.00 | 47.3 AV | 54.0 | -6.7 | 1.53 H | 283 | 25.7 | 21.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6185.00 | 107.7 PK | | | 4.00 V | 202 | 63.2 | 44.5 |
| 2 | *6185.00 | 96.5 AV | | | 4.00 V | 202 | 52.0 | 44.5 |
| 3 | 12370.00 | 60.8 PK | 74.0 | -13.2 | 1.98 V | 289 | 39.2 | 21.6 |
| 4 | 12370.00 | 47.1 AV | 54.0 | -6.9 | 1.98 V | 289 | 25.5 | 21.6 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11ax (HE160) | Channel | CH 79：6345 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6345.00 | 112.6 PK | | | 2.22 H | 356 | 67.3 | 45.3 |
| 2 | *6345.00 | 100.9 AV | | | 2.22 H | 356 | 55.6 | 45.3 |
| 3 | 12690.00 | 62.2 PK | 74.0 | -11.8 | 1.52 H | 278 | 39.6 | 22.6 |
| 4 | 12690.00 | 48.6 AV | 54.0 | -5.4 | 1.52 H | 278 | 26.0 | 22.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6345.00 | 108.9 PK | | | 3.91 V | 202 | 63.6 | 45.3 |
| 2 | *6345.00 | 97.1 AV | | | 3.91 V | 202 | 51.8 | 45.3 |
| 3 | 12690.00 | 62.1 PK | 74.0 | -11.9 | 2.02 V | 294 | 39.5 | 22.6 |
| 4 | 12690.00 | 48.3 AV | 54.0 | -5.7 | 2.02 V | 294 | 25.7 | 22.6 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11ax (HE160) | Channel | CH 111：6505 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6505.00 | 111.8 PK | | | 2.28 H | 341 | 65.5 | 46.3 |
| 2 | *6505.00 | 100.4 AV | | | 2.28 H | 341 | 54.1 | 46.3 |
| 3 | #13010.00 | 62.7 PK | 88.2 | -25.5 | 1.49 H | 282 | 39.7 | 23.0 |
| 4 | #13010.00 | 49.0 AV | 68.2 | -19.2 | 1.49 H | 282 | 26.0 | 23.0 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6505.00 | 107.6 PK | | | 3.93 V | 72 | 61.3 | 46.3 |
| 2 | *6505.00 | 95.4 AV | | | 3.93 V | 72 | 49.1 | 46.3 |
| 3 | #13010.00 | 62.5 PK | 88.2 | -25.7 | 1.92 V | 292 | 39.5 | 23.0 |
| 4 | #13010.00 | 48.8 AV | 68.2 | -19.4 | 1.92 V | 292 | 25.8 | 23.0 |

Remarks:

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

| RF Mode | TX 802.11ax (HE160) | Channel | CH 143：6665 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6665.00 | 111.9 PK | | | 2.50 H | 320 | 65.8 | 46.1 |
| 2 | *6665.00 | 99.9 AV | | | 2.50 H | 320 | 53.8 | 46.1 |
| 3 | 13330.00 | 63.5 PK | 74.0 | -10.5 | 1.52 H | 275 | 39.5 | 24.0 |
| 4 | 13330.00 | 49.8 AV | 54.0 | -4.2 | 1.52 H | 275 | 25.8 | 24.0 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6665.00 | 107.8 PK | | | 3.93 V | 71 | 61.7 | 46.1 |
| 2 | *6665.00 | 95.6 AV | | | 3.93 V | 71 | 49.5 | 46.1 |
| 3 | 13330.00 | 63.2 PK | 74.0 | -10.8 | 1.96 V | 297 | 39.2 | 24.0 |
| 4 | 13330.00 | 49.5 AV | 54.0 | -4.5 | 1.96 V | 297 | 25.5 | 24.0 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

| RF Mode | TX 802.11ax (HE160) | Channel | CH 175：6825 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6825.00 | 112.6 PK | | | 2.59 H | 329 | 66.0 | 46.6 |
| 2 | *6825.00 | 100.8 AV | | | 2.59 H | 329 | 54.2 | 46.6 |
| 3 | #13650.00 | 64.0 PK | 88.2 | -24.2 | 1.53 H | 269 | 39.6 | 24.4 |
| 4 | #13650.00 | 50.3 AV | 68.2 | -17.9 | 1.53 H | 269 | 25.9 | 24.4 |
| 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 | *6825.00 | 108.1 PK | | | 3.93 V | 62 | 61.5 | 46.6 |
| 2 | *6825.00 | 96.3 AV | | | 3.93 V | 62 | 49.7 | 46.6 |
| 3 | #13650.00 | 63.7 PK | 88.2 | -24.5 | 1.89 V | 287 | 39.3 | 24.4 |
| 4 | #13650.00 | 50.1 AV | 68.2 | -18.1 | 1.89 V | 287 | 25.7 | 24.4 |

Remarks:

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

| RF Mode | TX 802.11ax (HE160) | Channel | CH 207：6985 MHz |
|---|---|---|---|
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK)<br>Average (AV) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *6985.00 | 112.4 PK | | | 2.53 H | 331 | 64.7 | 47.7 |
| 2 | *6985.00 | 100.6 AV | | | 2.53 H | 331 | 52.9 | 47.7 |
| 3 | #7125.00 | 78.9 PK | 88.2 | -9.3 | 2.53 H | 331 | 62.4 | 16.5 |
| 4 | #7125.00 | 60.9 AV | 68.2 | -7.3 | 2.53 H | 331 | 44.4 | 16.5 |
| 5 | 7250.00 | 66.3 PK | 74.0 | -7.7 | 2.53 H | 331 | 49.8 | 16.5 |
| 6 | 7250.00 | 53.4 AV | 54.0 | -0.6 | 2.53 H | 331 | 36.9 | 16.5 |
| 7 | #13970.00 | 65.0 PK | 88.2 | -23.2 | 1.42 H | 269 | 39.5 | 25.5 |
| 8 | #13970.00 | 51.2 AV | 68.2 | -17.0 | 1.42 H | 269 | 25.7 | 25.5 |
| 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 | *6985.00 | 109.3 PK | | | 3.88 V | 257 | 61.6 | 47.7 |
| 2 | *6985.00 | 96.3 AV | | | 3.88 V | 257 | 48.6 | 47.7 |
| 3 | #7125.00 | 76.5 PK | 88.2 | -11.7 | 3.88 V | 257 | 60.0 | 16.5 |
| 4 | #7125.00 | 56.7 AV | 68.2 | -11.5 | 3.88 V | 257 | 40.2 | 16.5 |
| 5 | 7250.00 | 66.0 PK | 74.0 | -8.0 | 3.88 V | 257 | 49.5 | 16.5 |
| 6 | 7250.00 | 53.2 AV | 54.0 | -0.8 | 3.88 V | 257 | 36.7 | 16.5 |
| 7 | #13970.00 | 64.7 PK | 88.2 | -23.5 | 1.89 V | 285 | 39.2 | 25.5 |
| 8 | #13970.00 | 51.0 AV | 68.2 | -17.2 | 1.89 V | 285 | 25.5 | 25.5 |

Remarks:

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

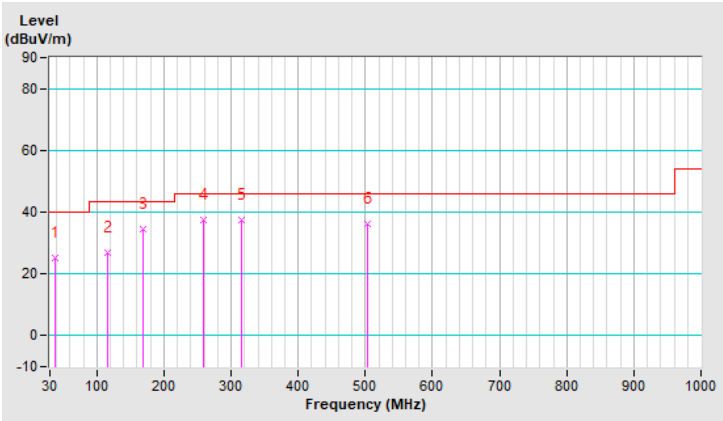
Below 1GHz Worst-Case Data:

| RF Mode | TX 802.11ax (HE160) | Channel | CH 79：6345 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 38.73 | 25.1 QP | 40.0 | -14.9 | 1.99 H | 234 | 34.6 | -9.5 |
| 2 | 116.33 | 27.0 QP | 43.5 | -16.5 | 1.49 H | 148 | 38.2 | -11.2 |
| 3 | 168.71 | 34.4 QP | 43.5 | -9.1 | 1.00 H | 257 | 43.3 | -8.9 |
| 4 | 258.92 | 37.4 QP | 46.0 | -8.6 | 1.00 H | 255 | 46.3 | -8.9 |
| 5 | 315.18 | 37.4 QP | 46.0 | -8.6 | 1.00 H | 255 | 44.5 | -7.1 |
| 6 | 503.36 | 36.1 QP | 46.0 | -9.9 | 1.49 H | 5 | 40.2 | -4.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

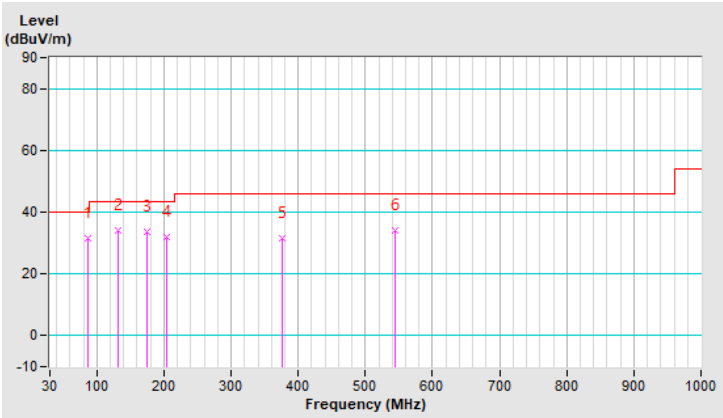


| RF Mode | TX 802.11ax (HE160) | Channel | CH 79：6345 MHz |
|---|---|---|---|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 87.23 | 31.7 QP | 40.0 | -8.3 | 1.49 V | 81 | 46.0 | -14.3 |
| 2 | 131.85 | 34.1 QP | 43.5 | -9.4 | 1.99 V | 305 | 43.9 | -9.8 |
| 3 | 174.53 | 33.6 QP | 43.5 | -9.9 | 1.00 V | 242 | 42.8 | -9.2 |
| 4 | 203.63 | 31.8 QP | 43.5 | -11.7 | 1.49 V | 81 | 43.2 | -11.4 |
| 5 | 375.32 | 31.6 QP | 46.0 | -14.4 | 1.00 V | 170 | 37.7 | -6.1 |
| 6 | 545.07 | 34.2 QP | 46.0 | -11.8 | 1.00 V | 244 | 37.6 | -3.4 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 4.2 In-Band Emission (Mask) Measurement

### 4.2.1 Limits of In-Band Emission (Mask) Measurement

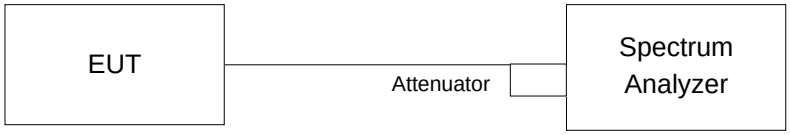
| Test Item | Frequencies (MHz) | (X) dBc*1 |
|---|---|---|
| Emission Mask | At 1 MHz outside of channel edge | 20 |
| | At one channel bandwidth from the channel center*2 | 28 |
| | At one- and one-half times the channel bandwidth away from channel center*3 | 40 |
| | More than one- and one-half times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

*1 : The power spectral density must be suppressed by “x” dB

*2 : 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,

*3 : 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.

### 4.2.2 Test Setup




### 4.2.3 Test Instruments

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

Notes:

1. The test was performed in Oven room.

### 4.2.4 Test Procedure

a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.

b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)

c. Measure the power spectral density ( for emissions mask reference) using the following procedure:

   a) Set the span to encompass the entire 26 dB EBW of the signal.

   b) Set RBW = same RBW used for 26 dB EBW measurement.

   c) Set VBW ≥ 3 X RBW

   d) Number of points in sweep ≥ [2 X span / RBW].

   e) Sweep time = auto.

   f) Detector = RMS (i.e., power averaging)

   g) Trace average at least 100 traces in power averaging (rms) mode.

   h) Use the peak search function on the instrument to find the peak of the spectrum.

d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

   a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)

   b) Suppressed by 28 dB at one channel bandwidth from the channel center.

   c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

e. Adjust the span to encompass the entire mask as necessary and clear trace.

f. Trace average at least 100 traces in power averaging (rms) mode.

g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

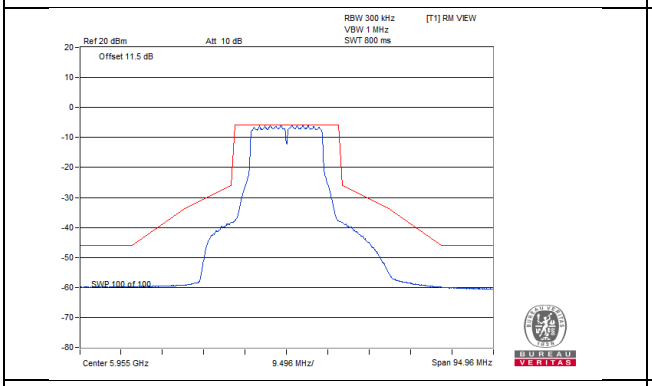
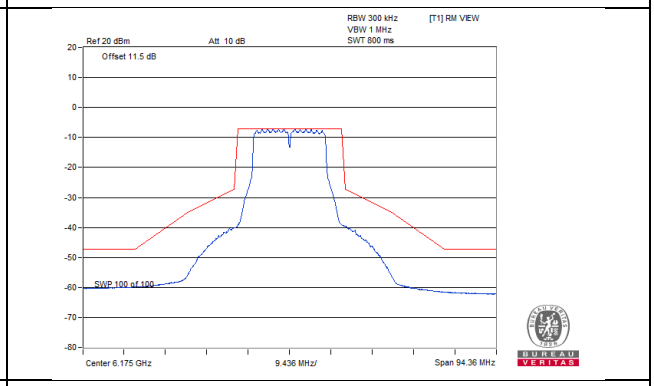
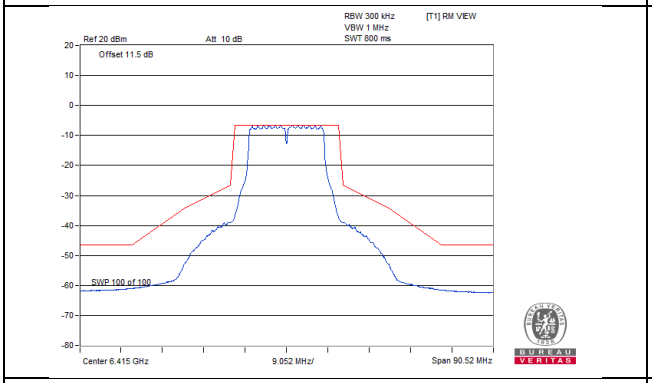
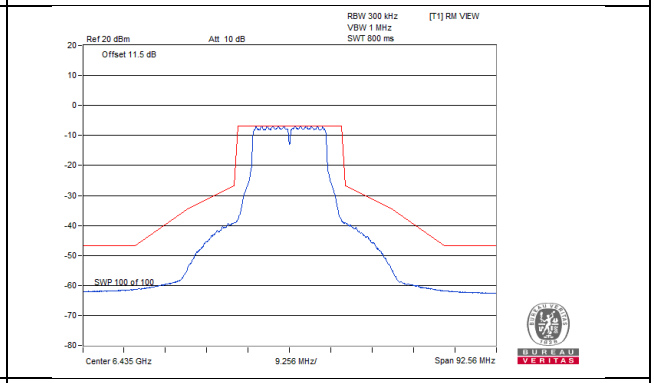
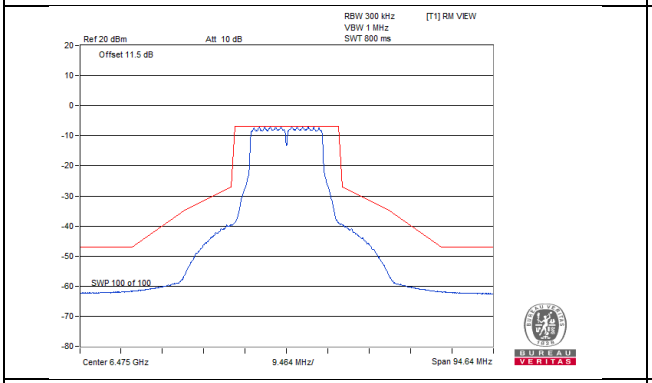
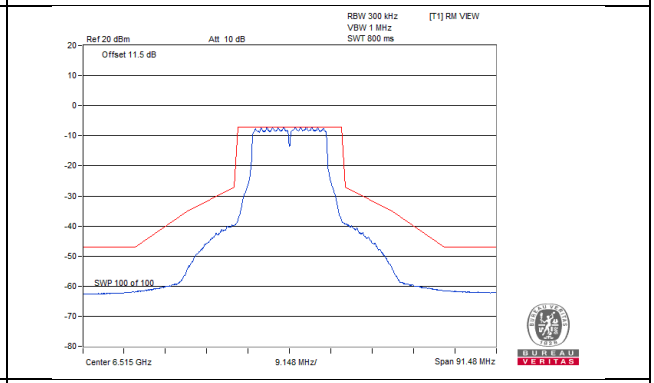
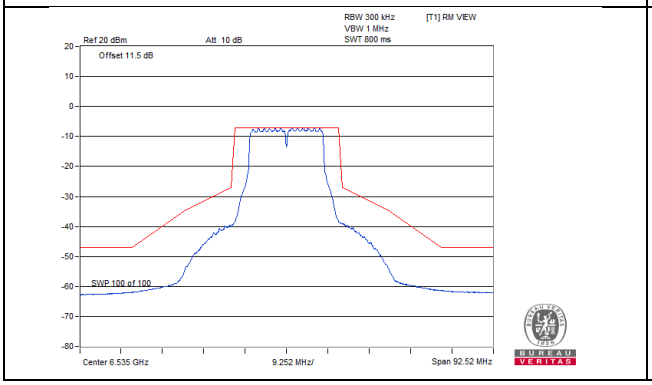
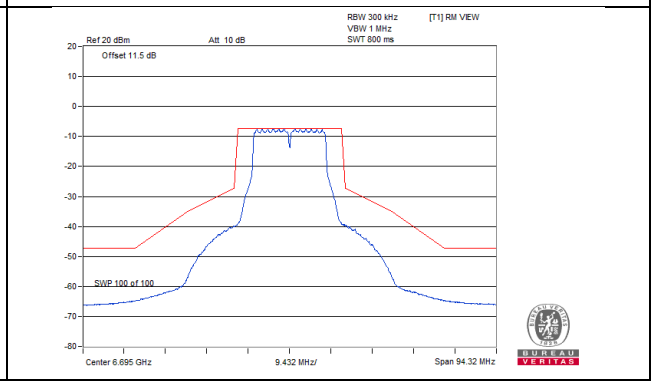
### 4.2.5 EUT Operating Condition

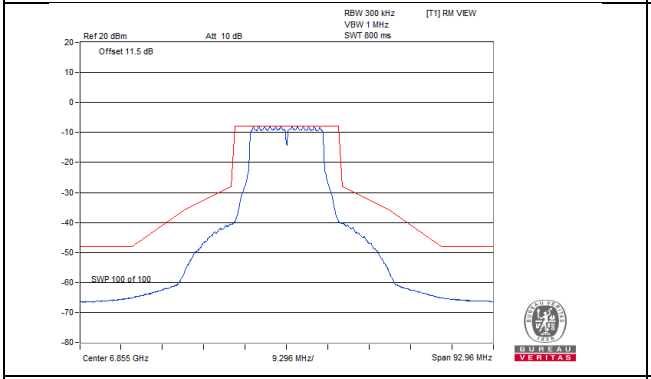
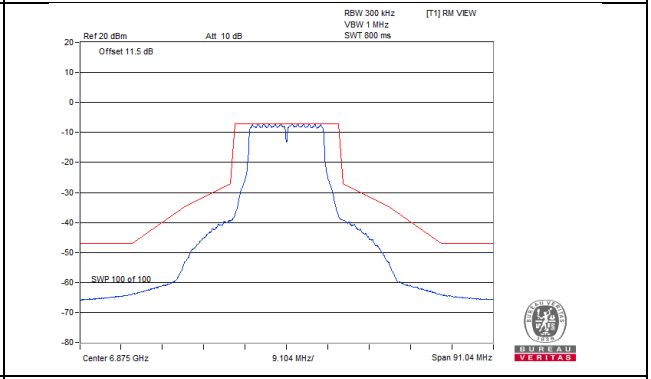
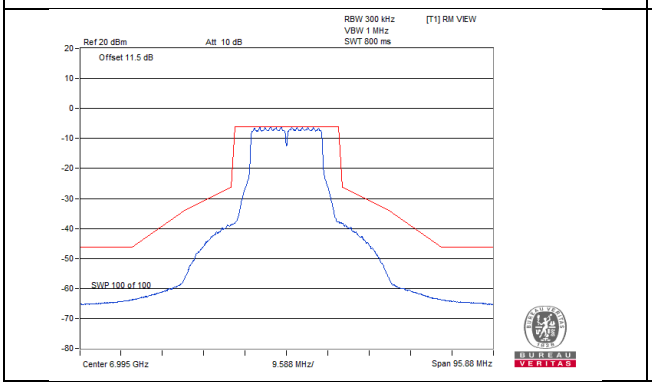
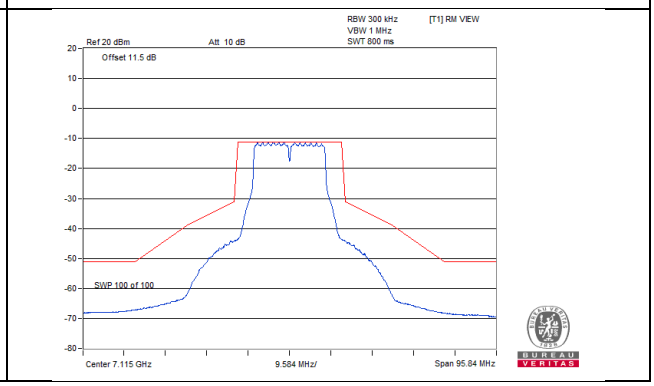
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

### 4.2.6 Test Results

## CDD Mode

802.11a_Chain 0

| Spectrum Plot | |
|---|---|
| CH 1 | CH 45 |
|  |  |
| CH 93 | CH 97 |
|  |  |
| CH 105 | CH 113 |
|  |  |
| CH 117 | CH 149 |
|  |  |

| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|  |  |
| CH 209 | CH 233 |
|  |  |

## 802.11a_Chain 1

| Spectrum Plot | |
|---|---|
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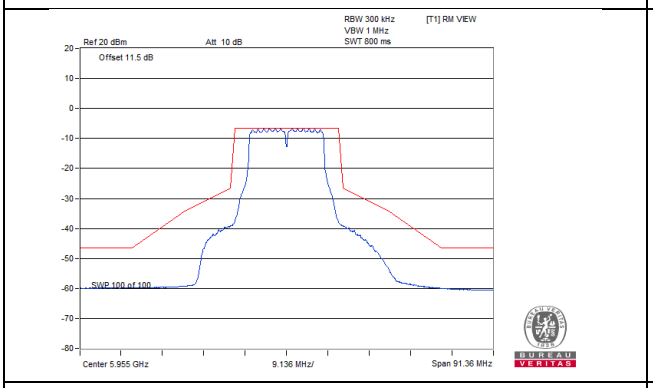
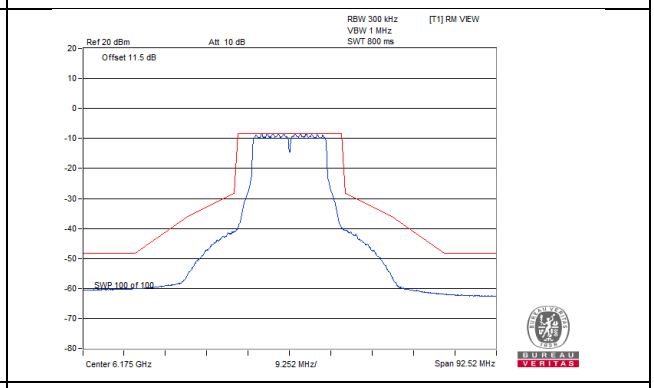
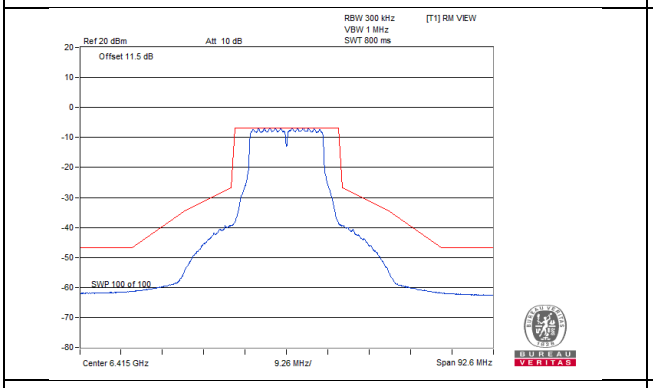
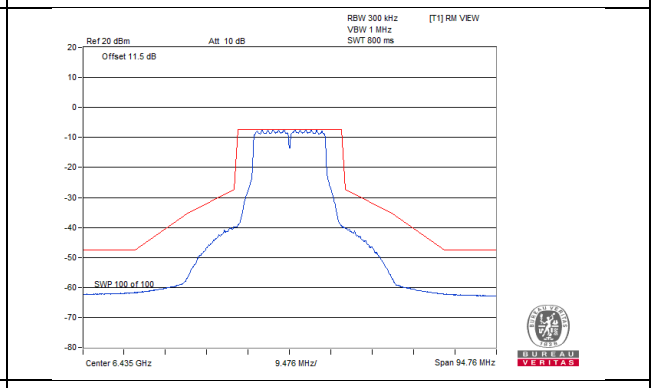
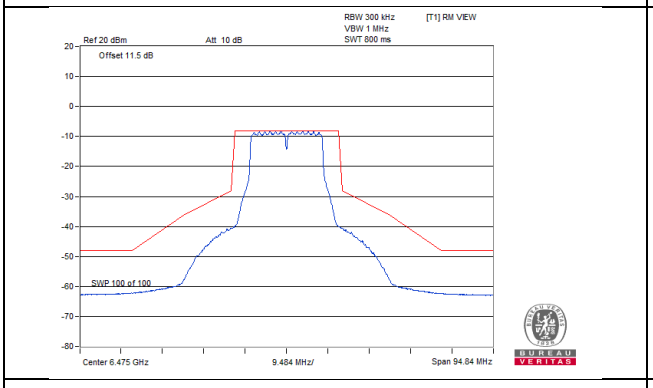
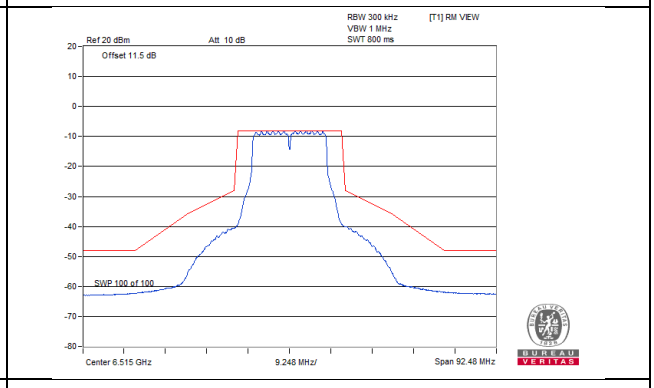
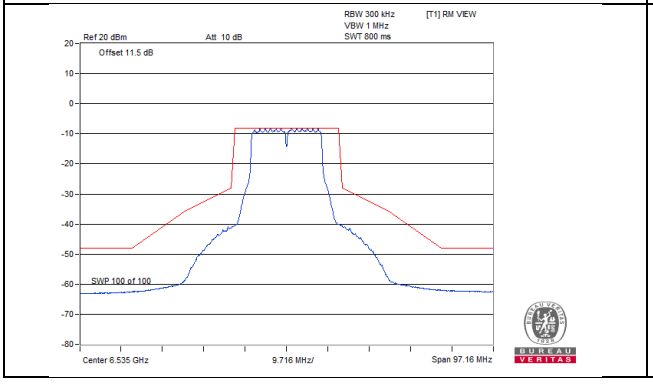
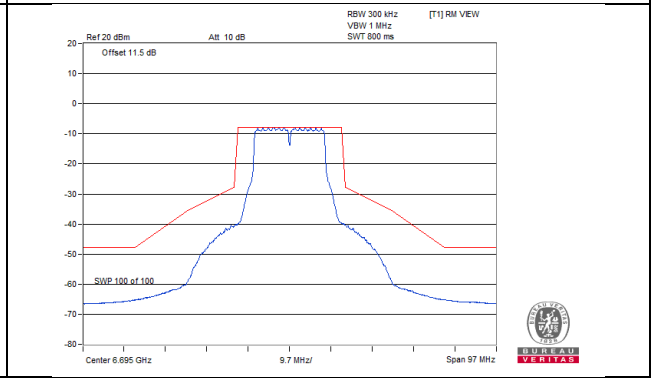
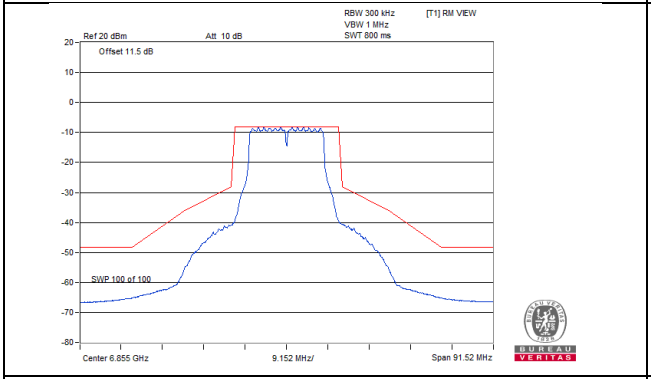
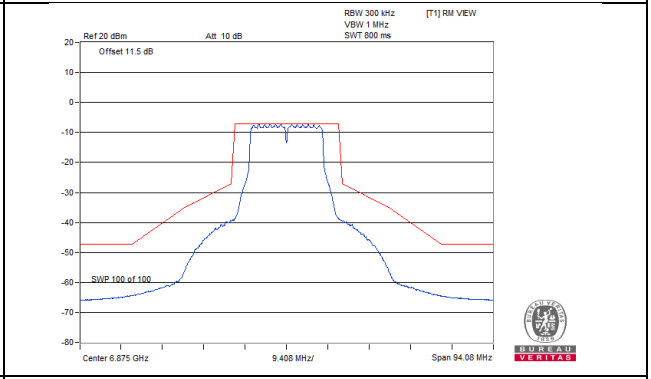
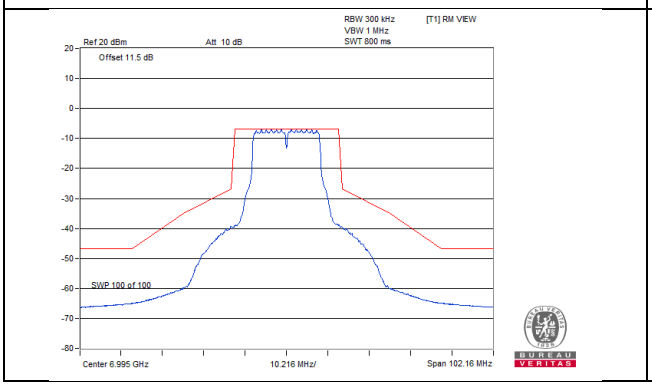
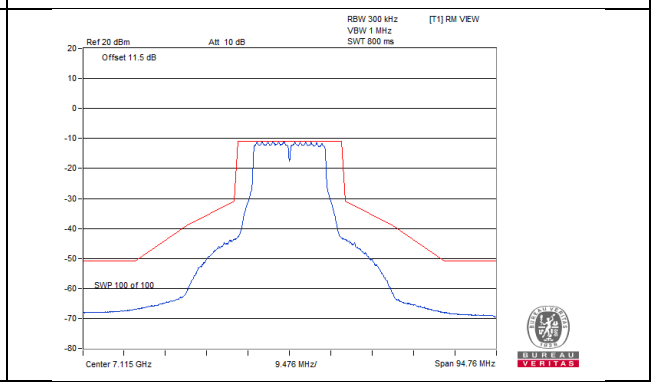
|  |  |
| CH 93 | CH 97 |
|  |  |
| CH 105 | CH 113 |
|  |  |
| CH 117 | CH 149 |
|  |  |

| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|  |  |
| CH 209 | CH 233 |
|  |  |

## 802.11a_Chain 2

| Spectrum Plot | |
|---|---|
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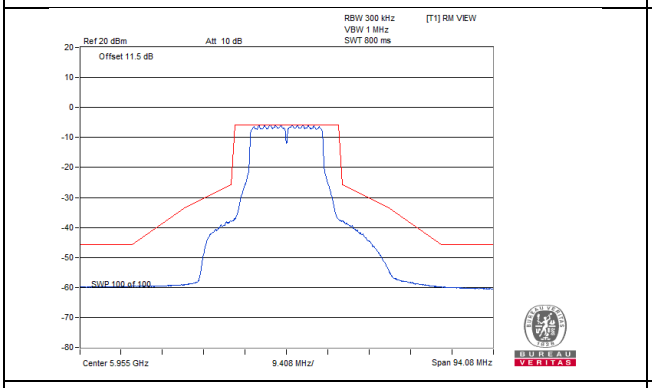
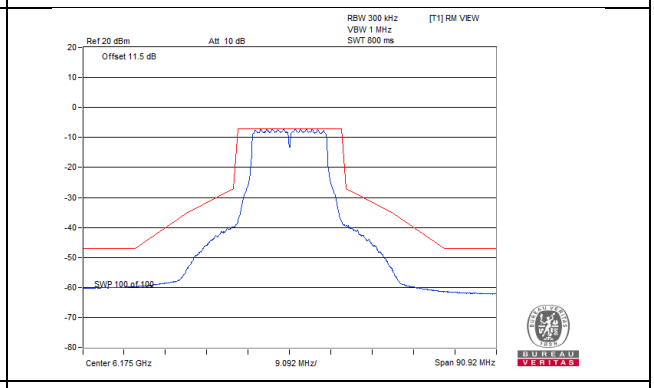
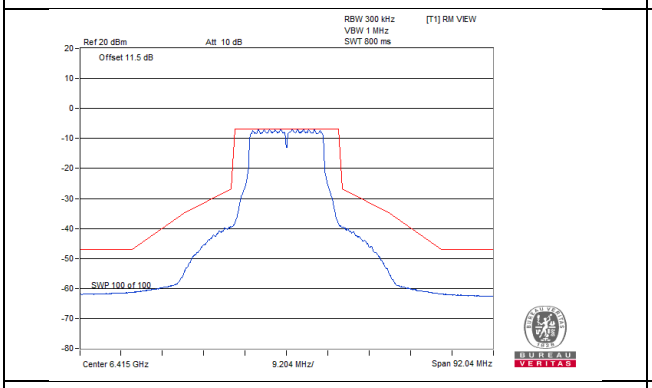
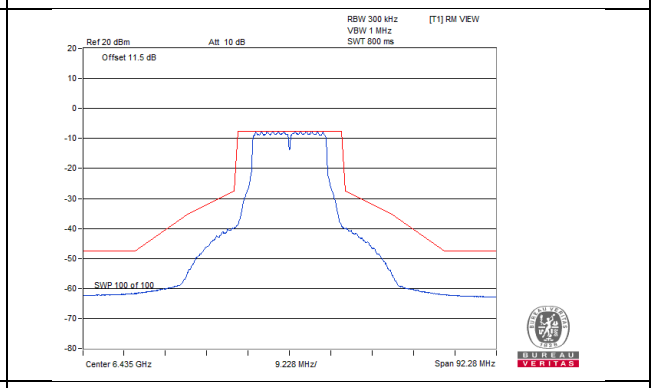
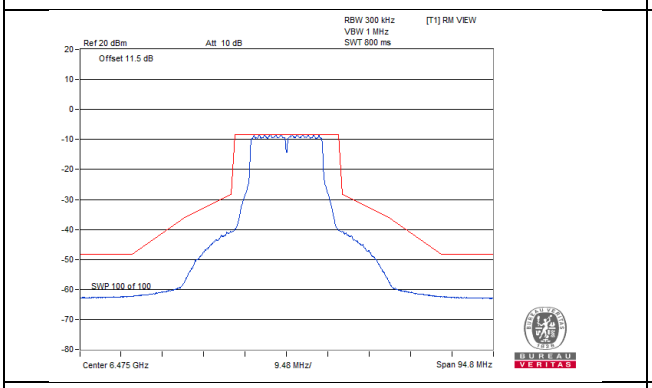
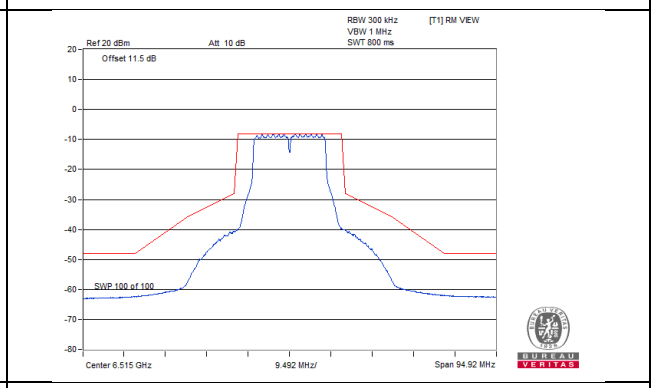
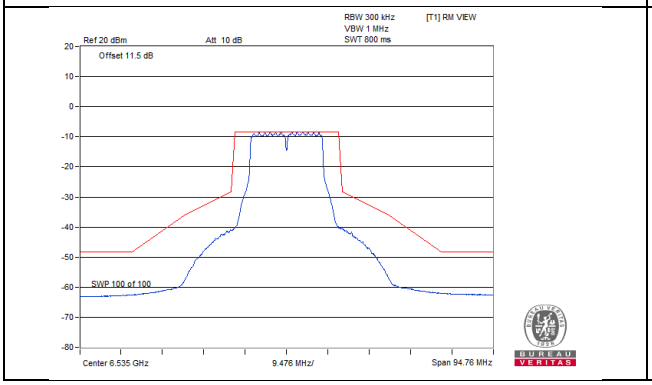
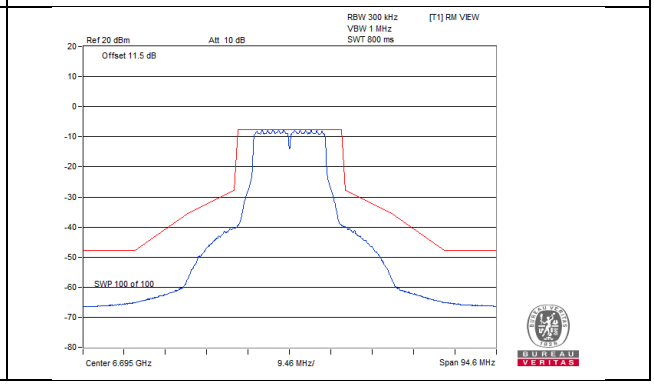
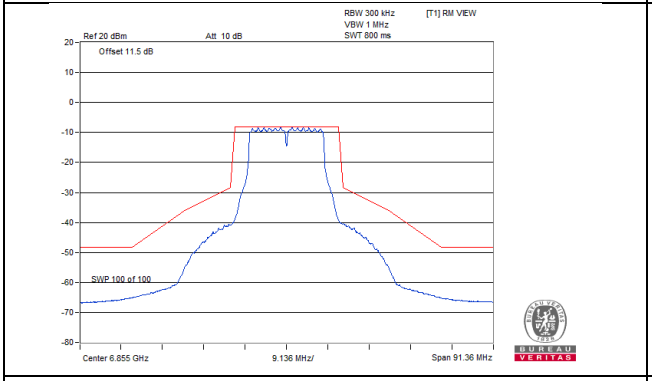
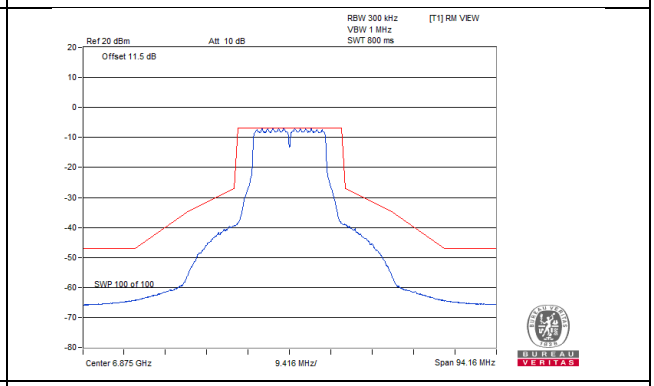
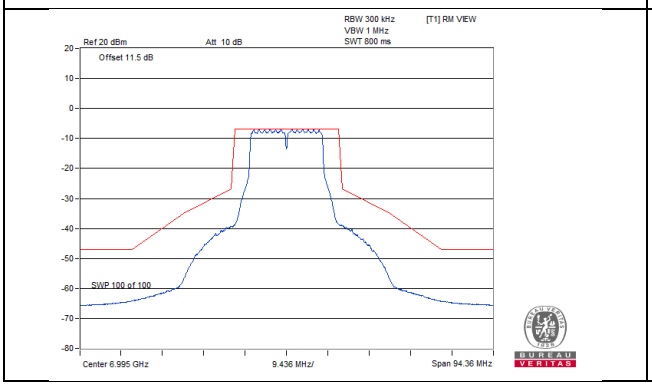
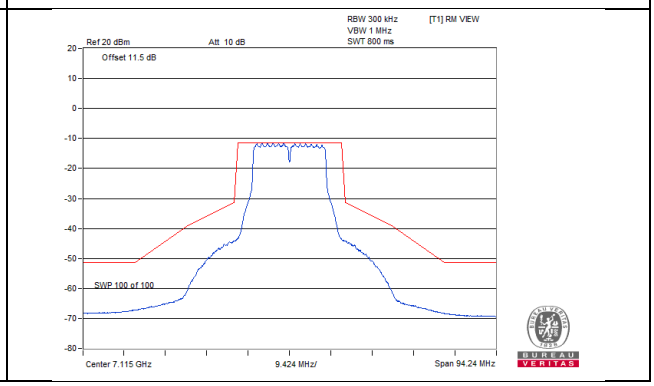
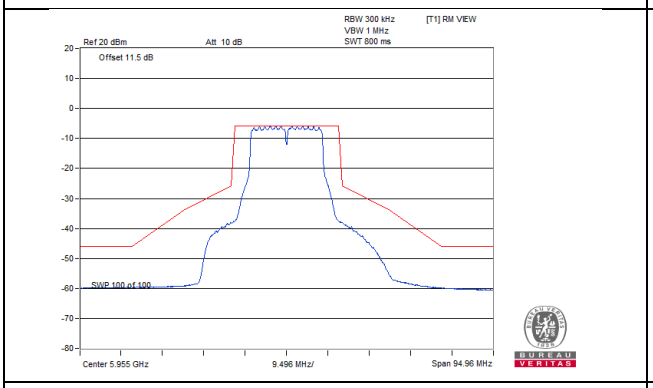
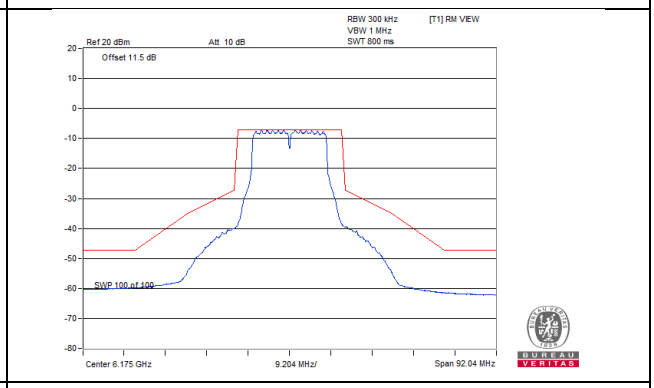
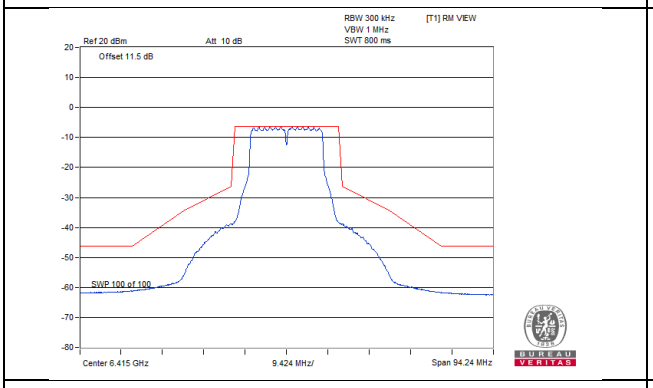
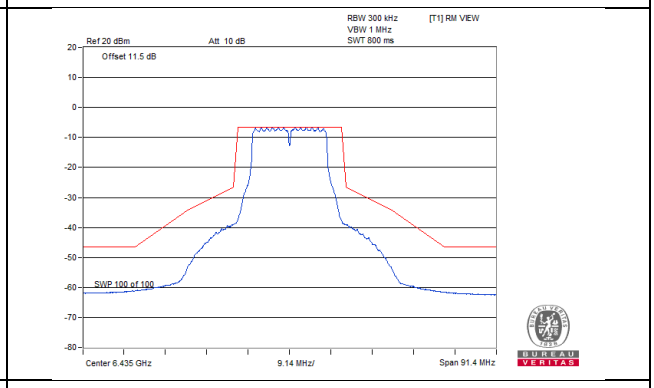
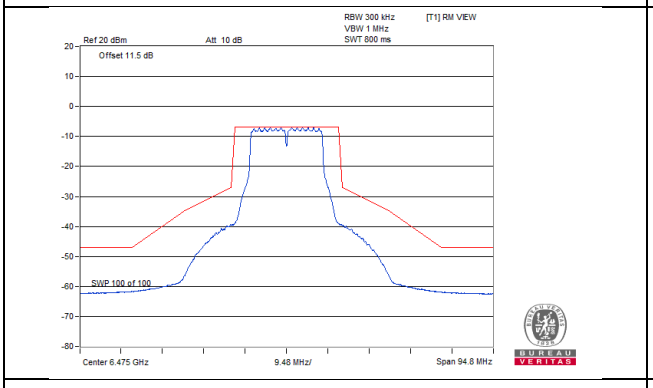
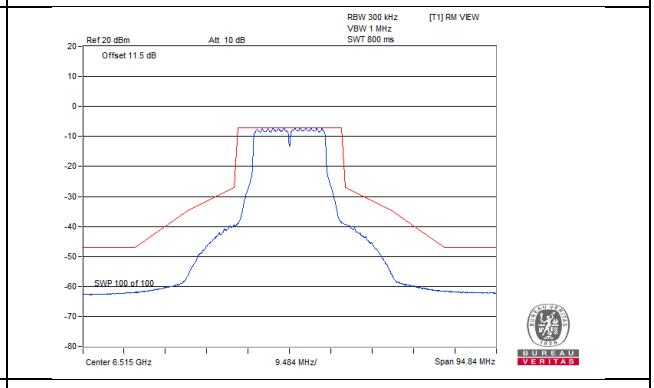
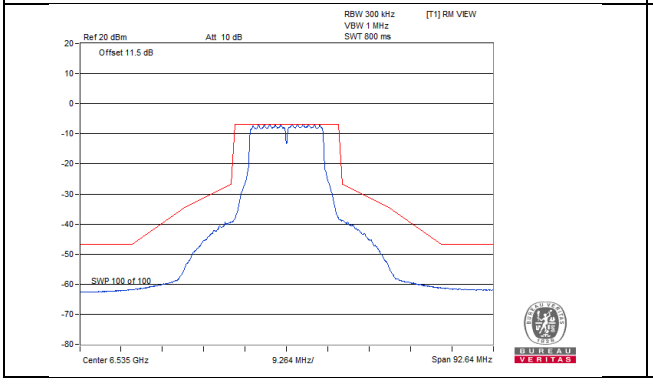
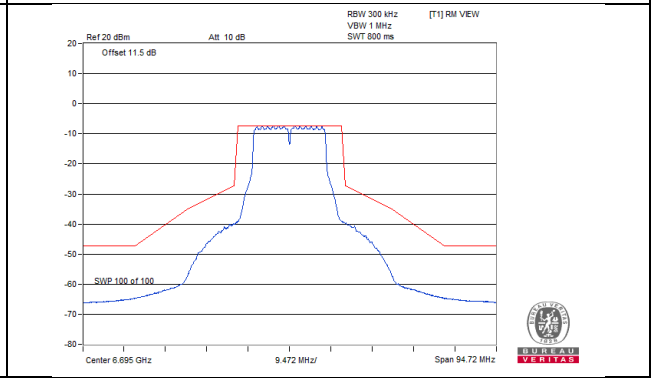
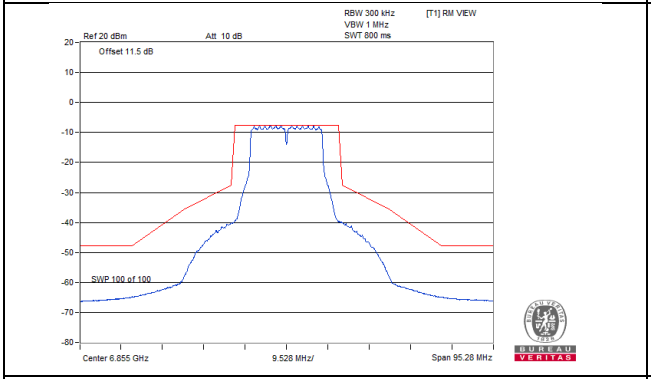
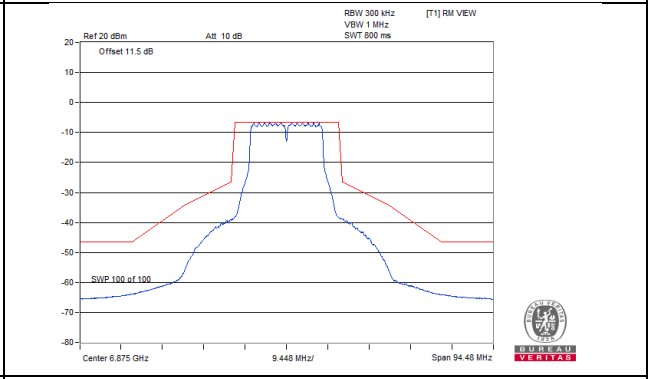
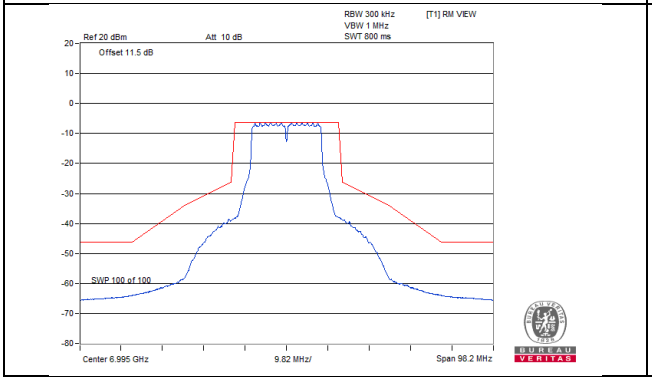
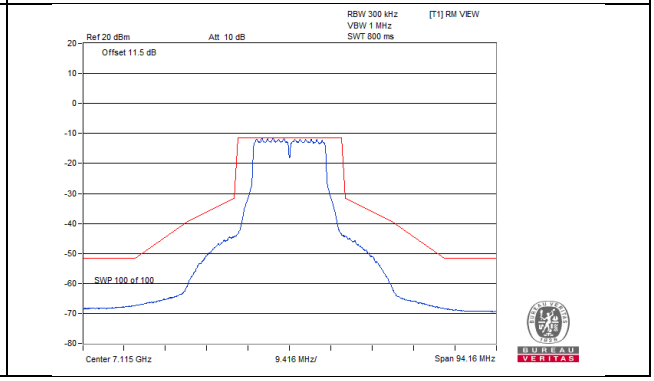
|   |   |
| CH 93 | CH 97 |
|   |   |
| CH 105 | CH 113 |
|   |   |
| CH 117 | CH 149 |
|   |   |

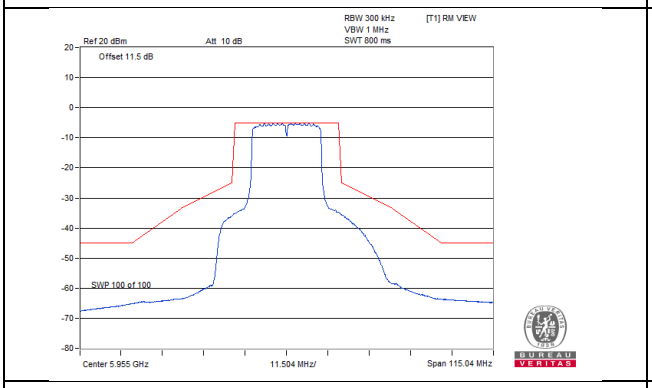
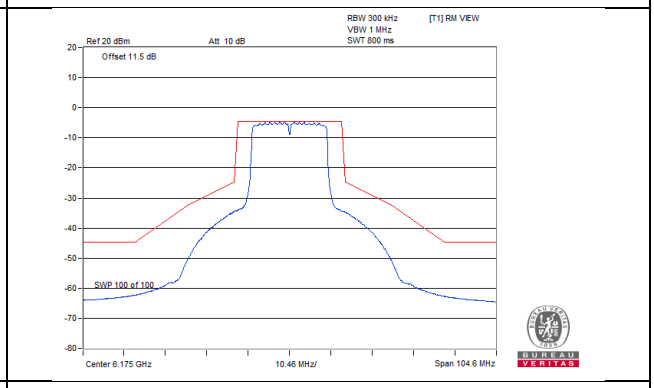
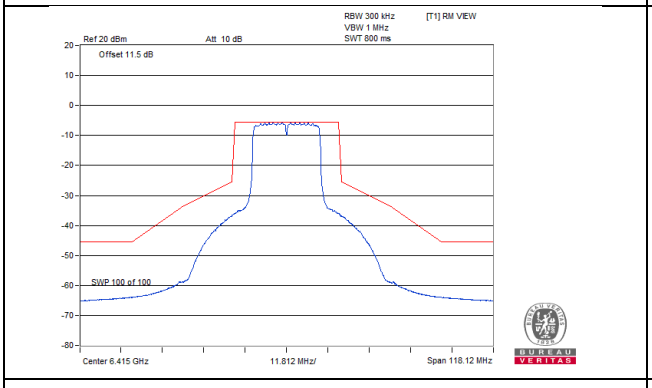
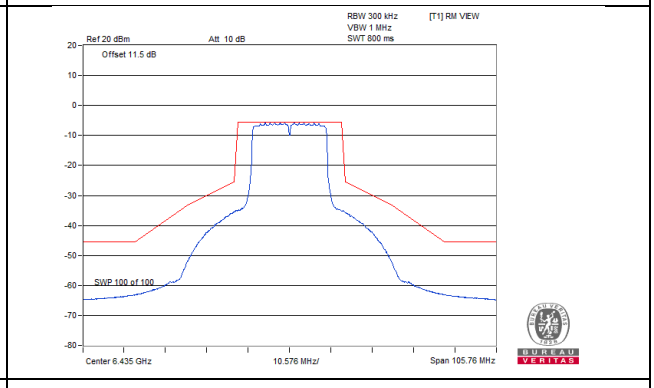
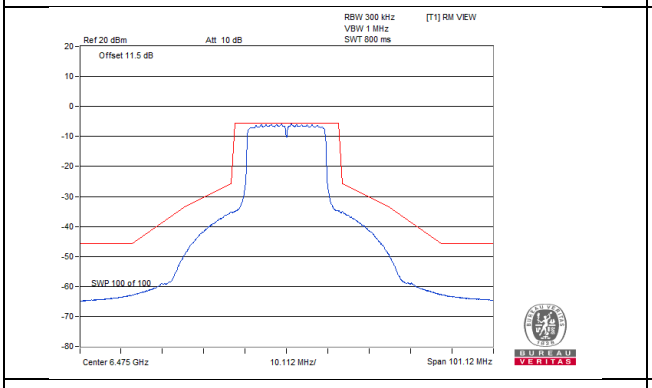
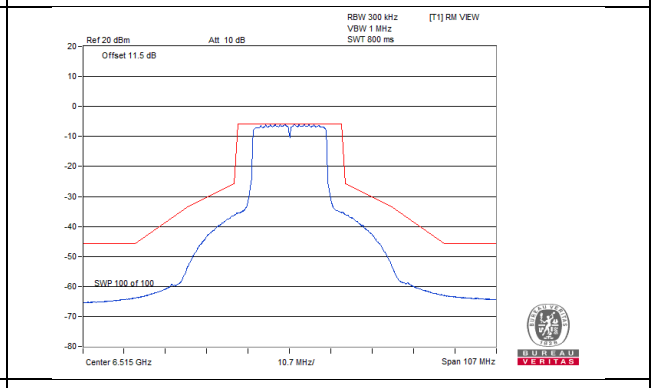
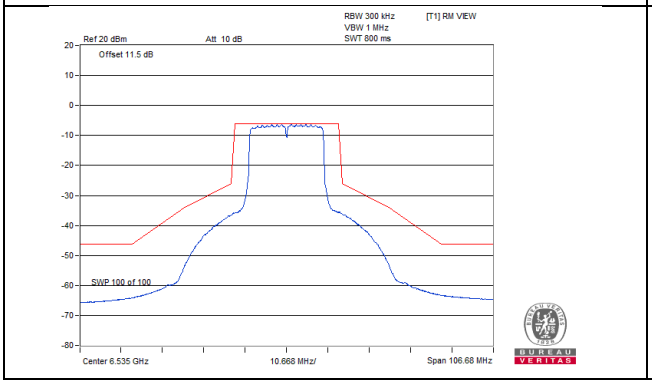
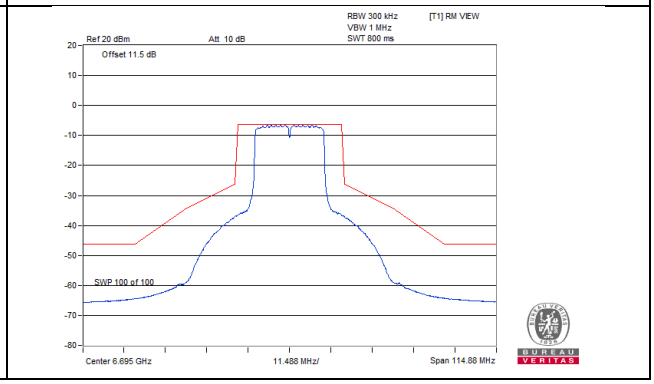
| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|  |  |
| CH 209 | CH 233 |
|  |  |

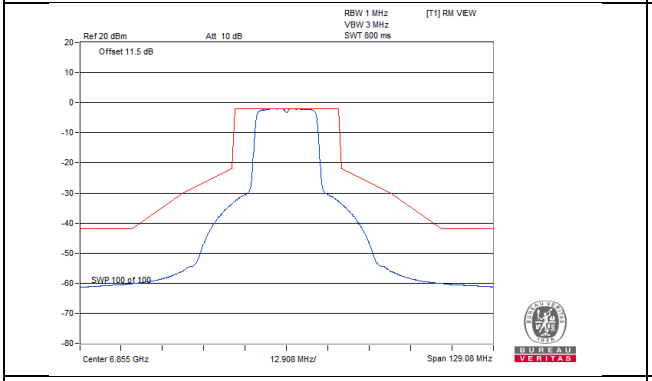
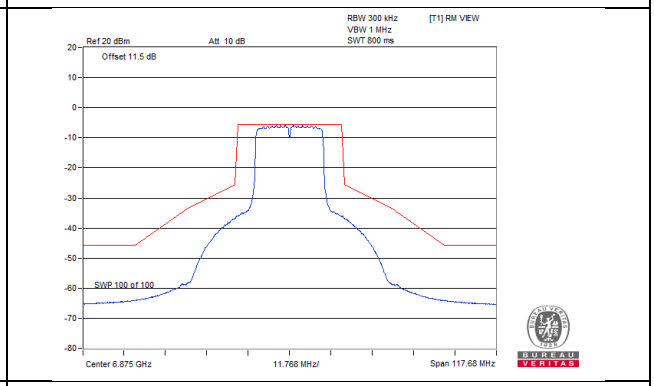
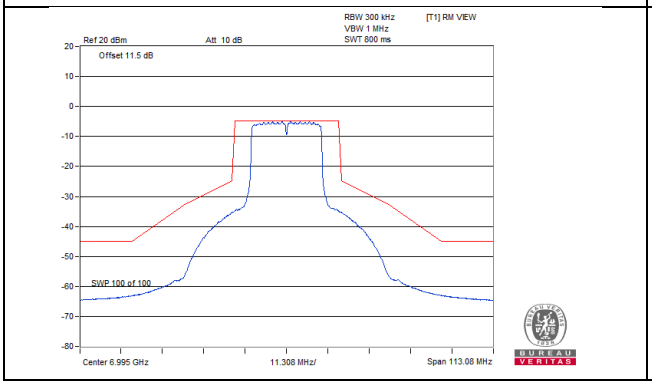
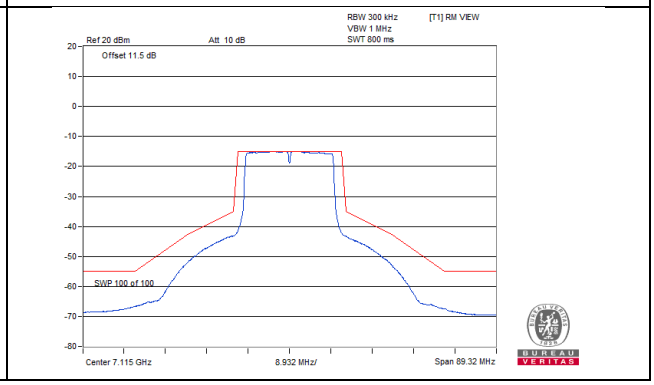
## 802.11a_Chain 3

| Spectrum Plot | |
|---|---|
| CH 1 | CH 45 |
|   |   |
| CH 93 | CH 97 |
|   |   |
| CH 105 | CH 113 |
|   |   |
| CH 117 | CH 149 |
|   |   |

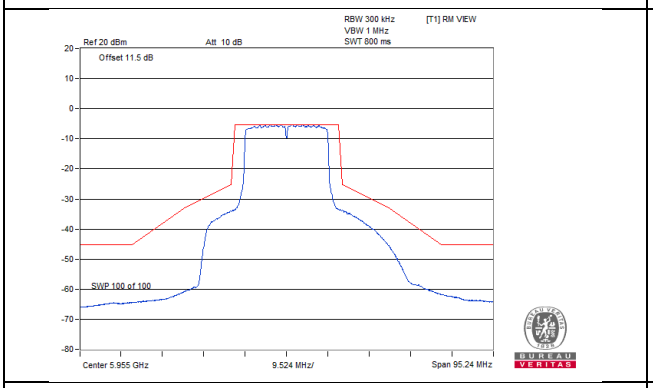
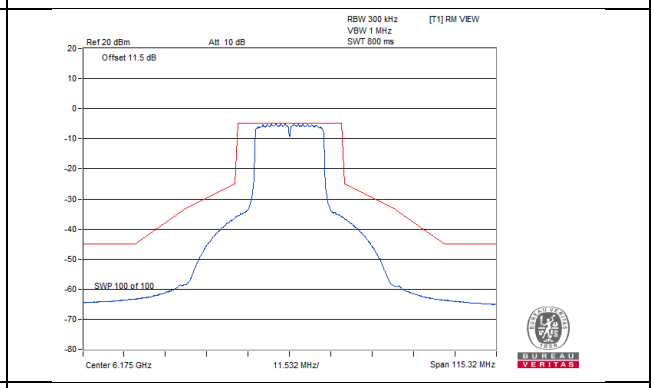
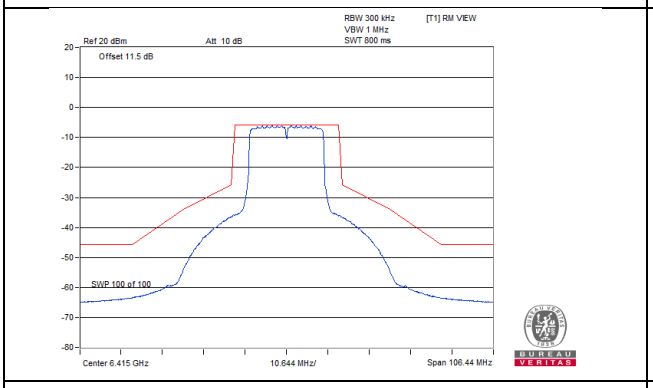
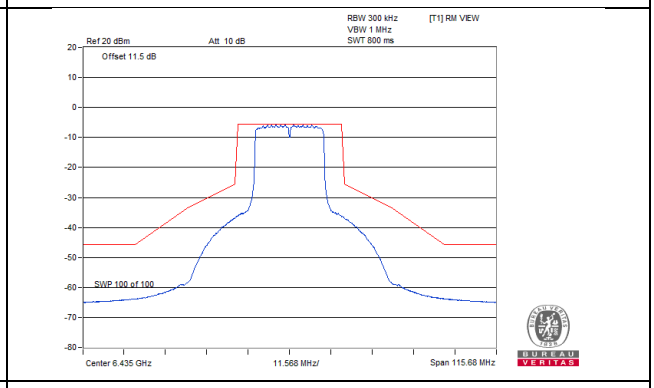
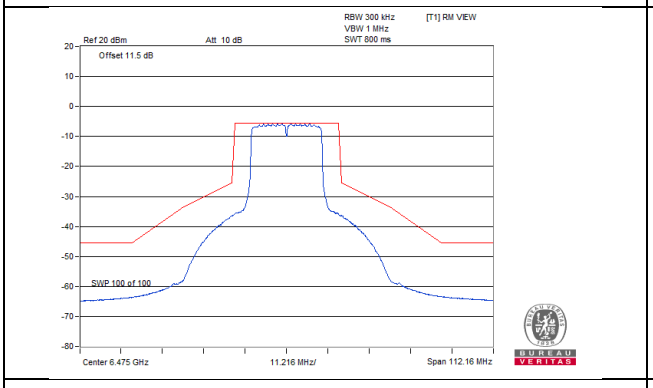
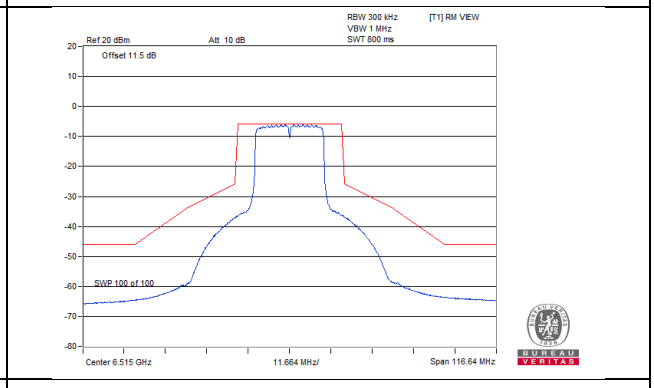
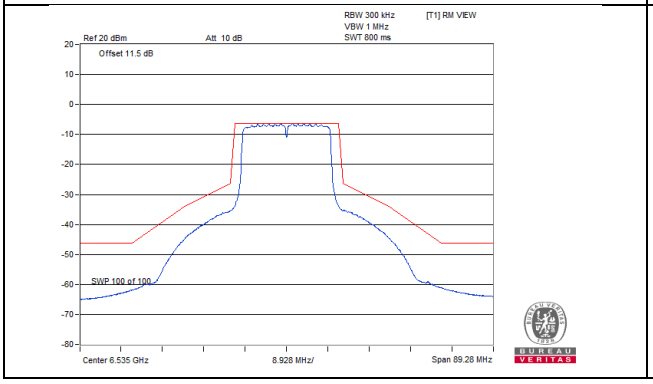
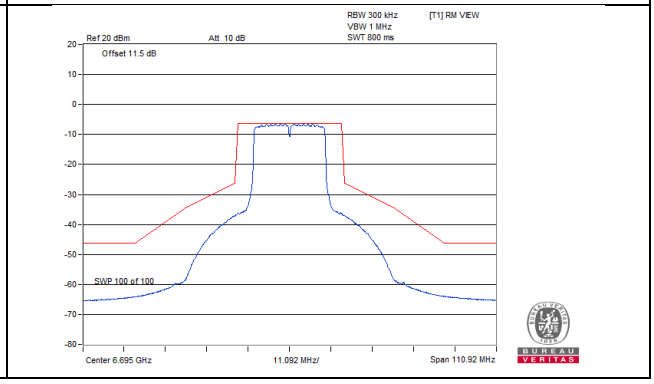
| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|   |   |
| CH 209 | CH 233 |
|   |   |

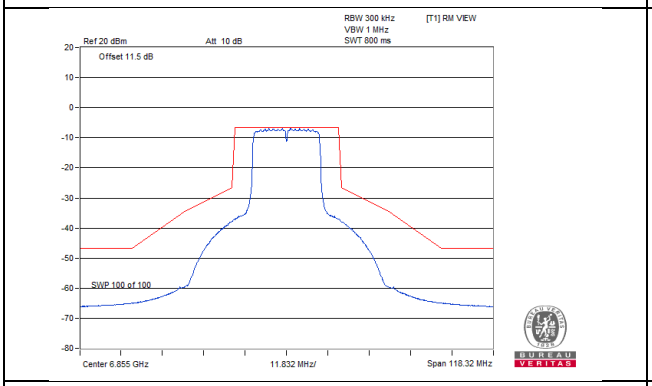
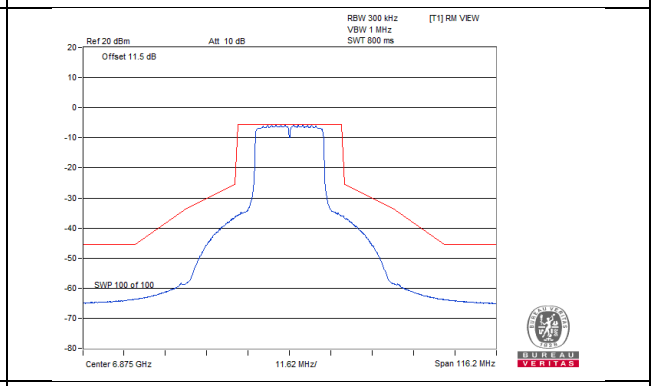
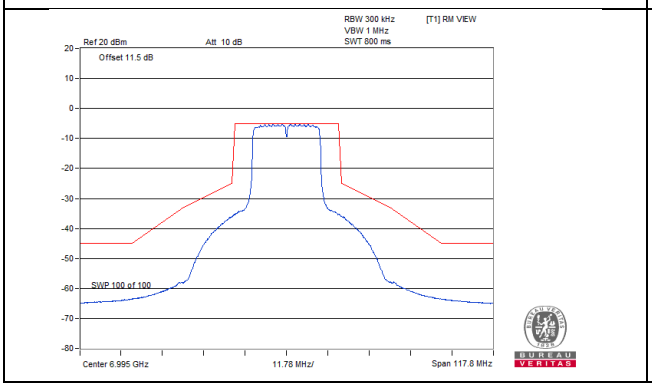
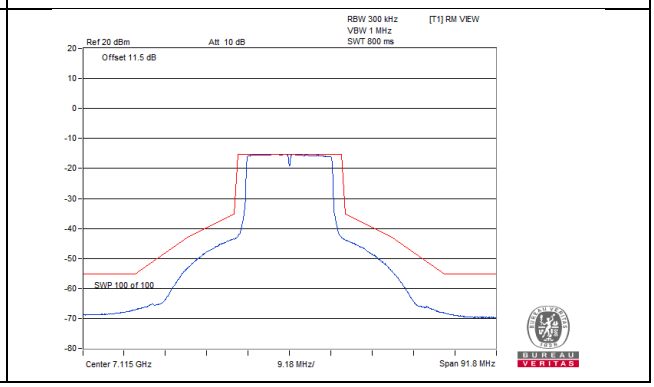
## 802.11ax (HE20)_Chain 0

| Spectrum Plot | |
|---|---|
| CH 1 | CH 45 |
|   |   |
| CH 93 | CH 97 |
|   |   |
| CH 105 | CH 113 |
|   |   |
| CH 117 | CH 149 |
|   |   |

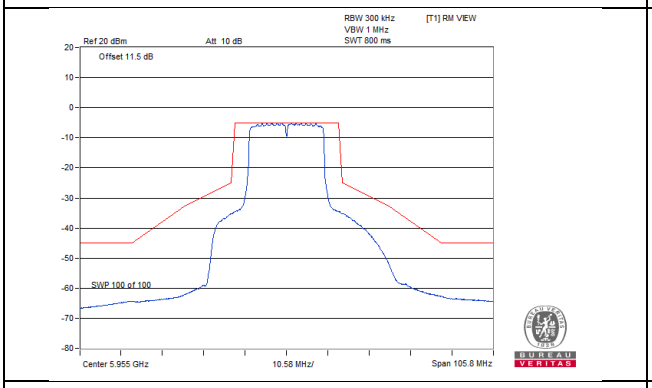
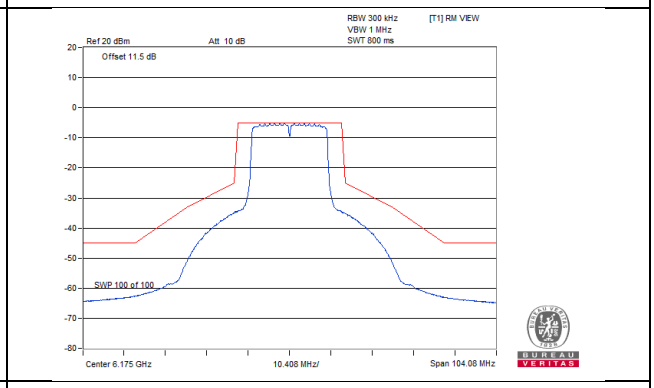
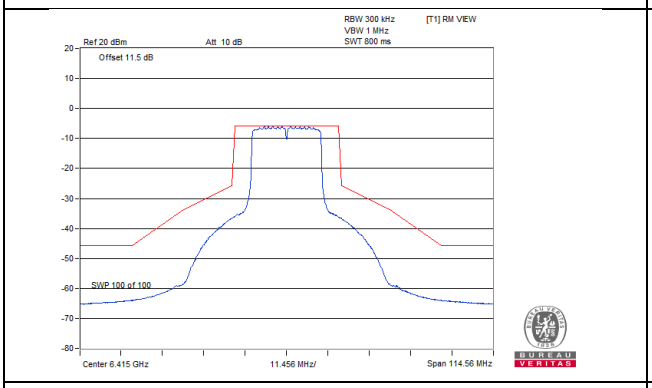
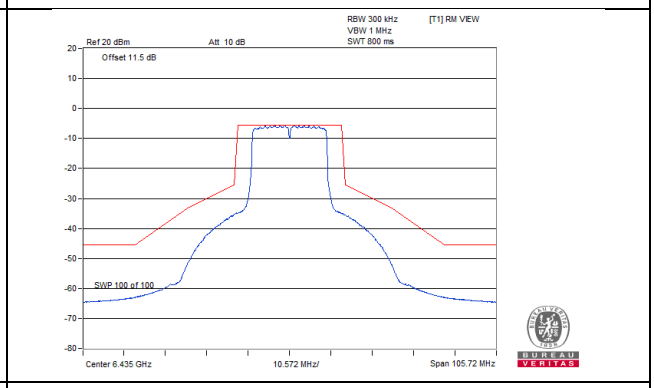
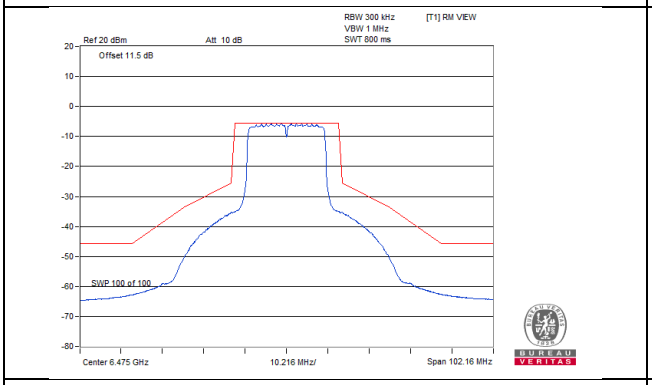
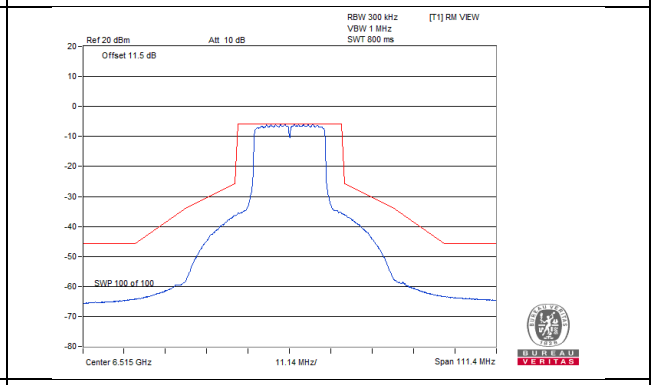
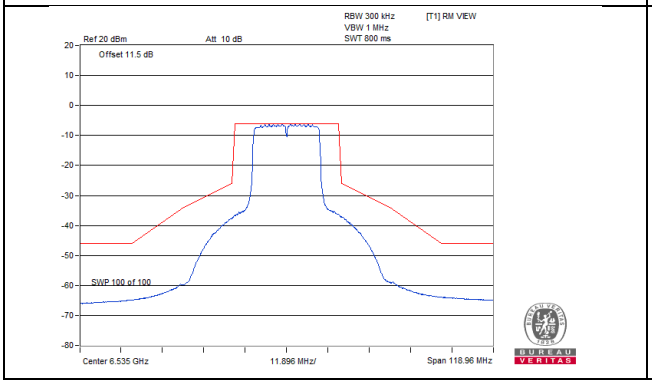
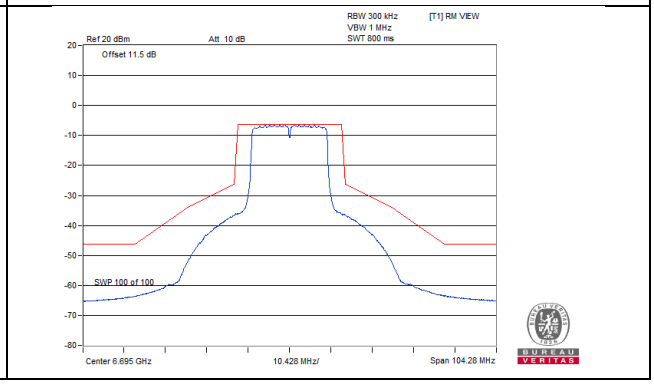
| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|  |  |
| CH 209 | CH 233 |
|  |  |

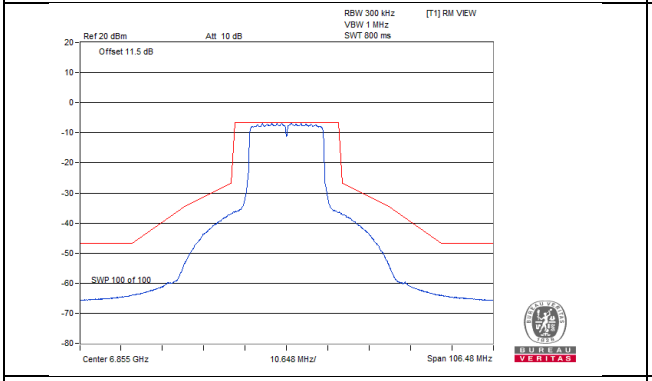
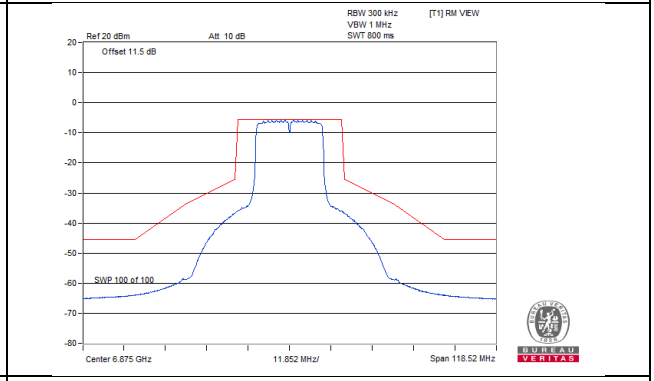
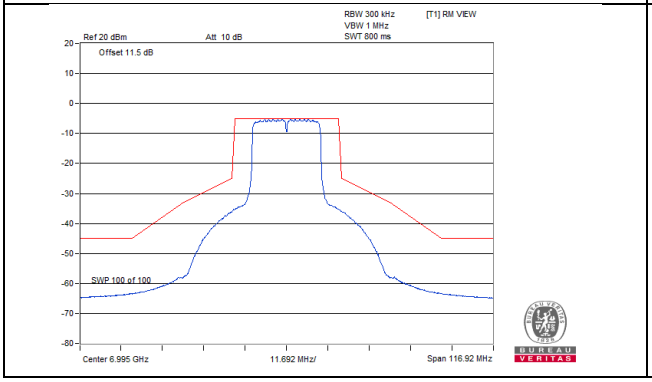
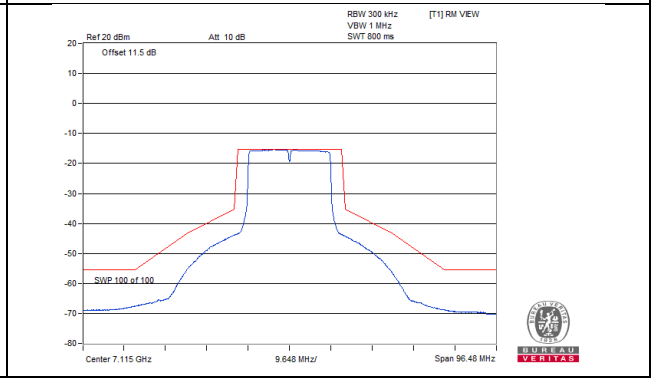
## 802.11ax (HE20)_Chain 1

| Spectrum Plot | |
|---|---|
| CH 1 | CH 45 |
|   |   |
| CH 93 | CH 97 |
|   |   |
| CH 105 | CH 113 |
|   |   |
| CH 117 | CH 149 |
|   |   |

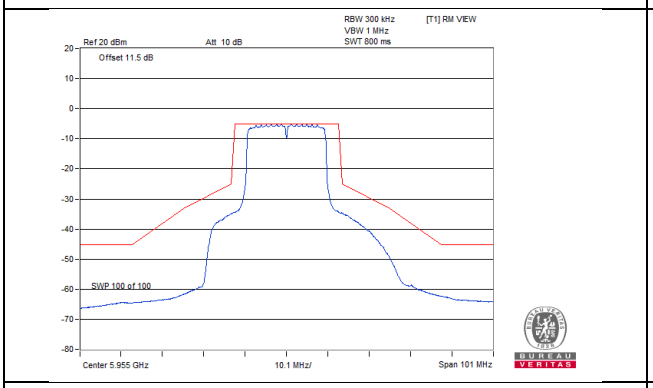
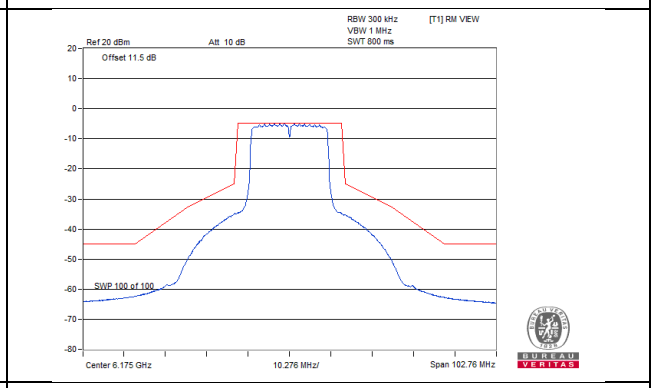
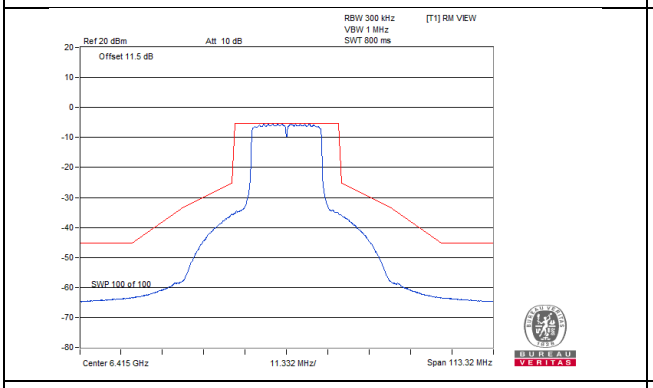
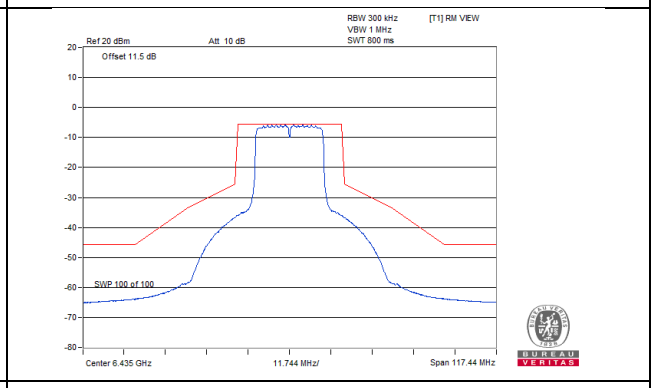
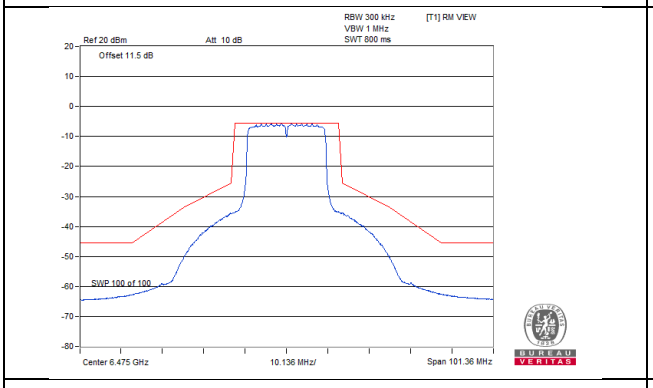
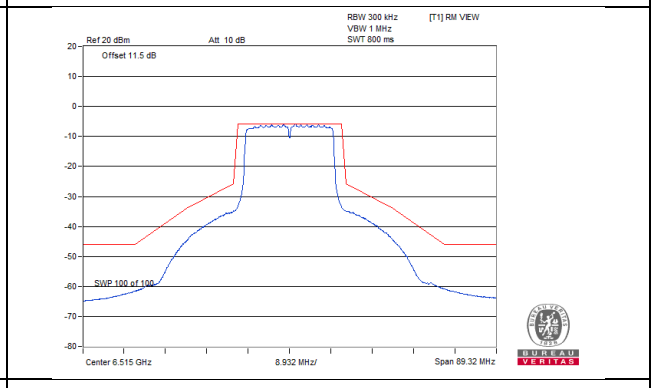
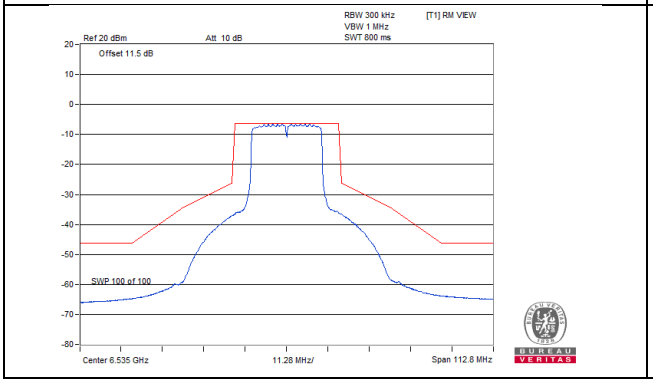
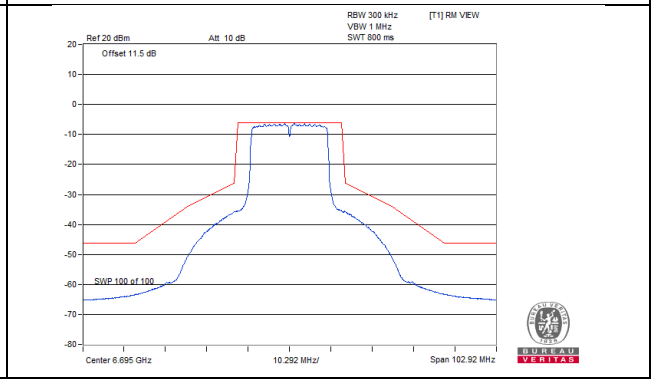
| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|  |  |
| CH 209 | CH 233 |
|  |  |

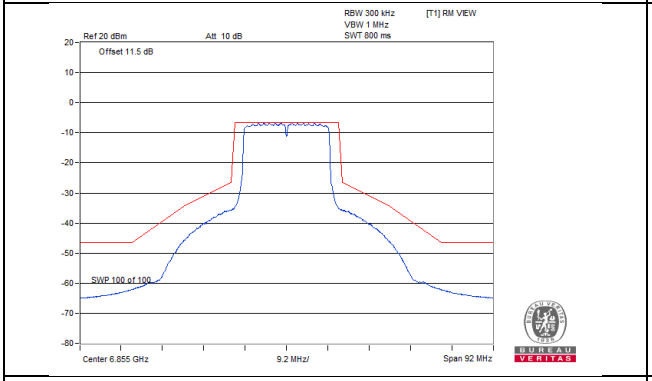
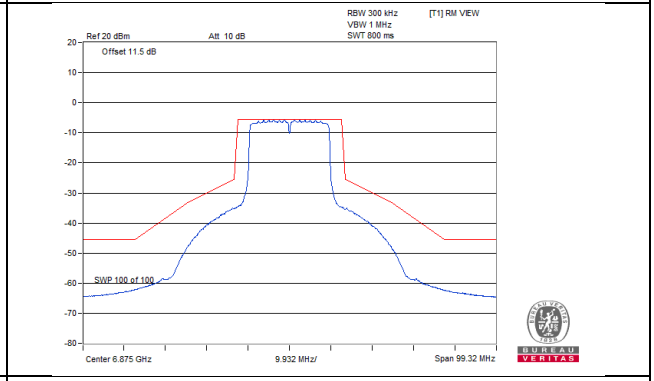
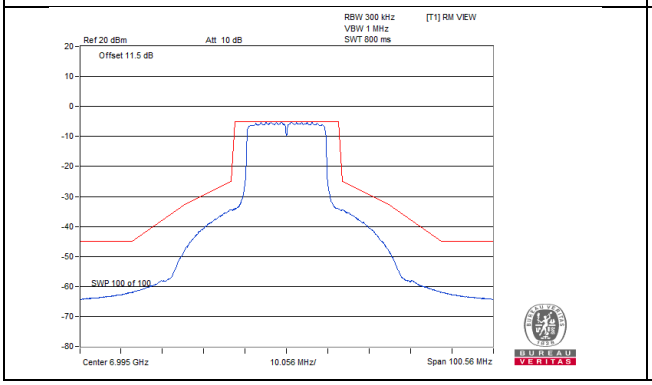
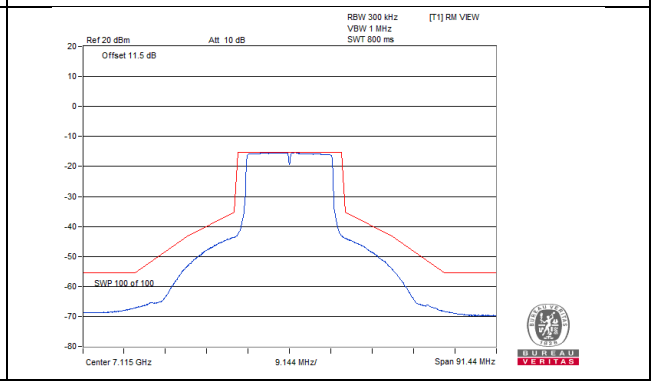
## 802.11ax (HE20)_Chain 2

| Spectrum Plot | |
|---|---|
| CH 1 | CH 45 |
|  |  |
| CH 93 | CH 97 |
|  |  |
| CH 105 | CH 113 |
|  |  |
| CH 117 | CH 149 |
|  |  |

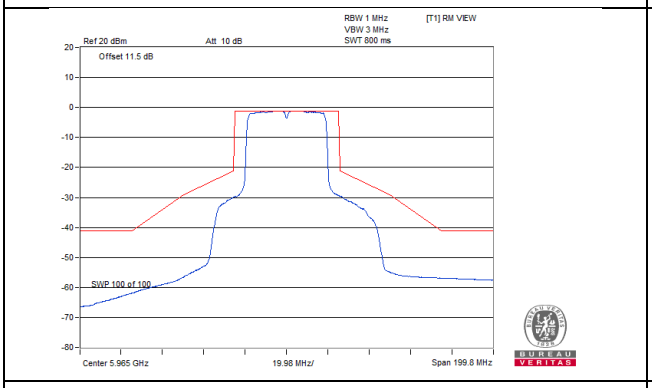
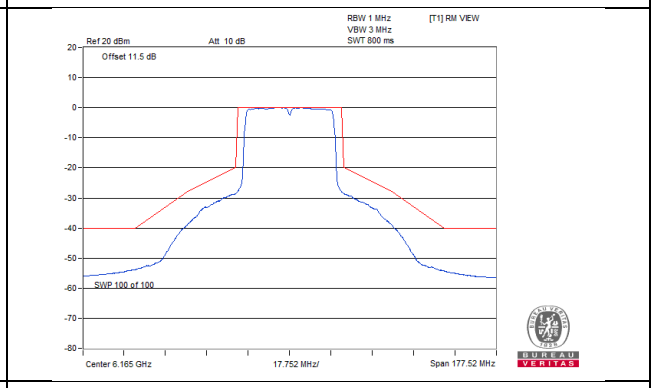
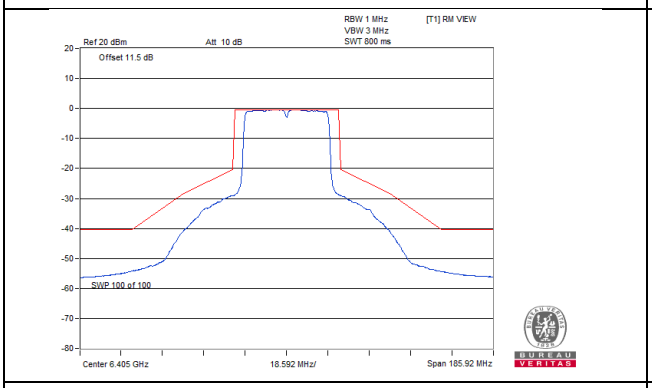
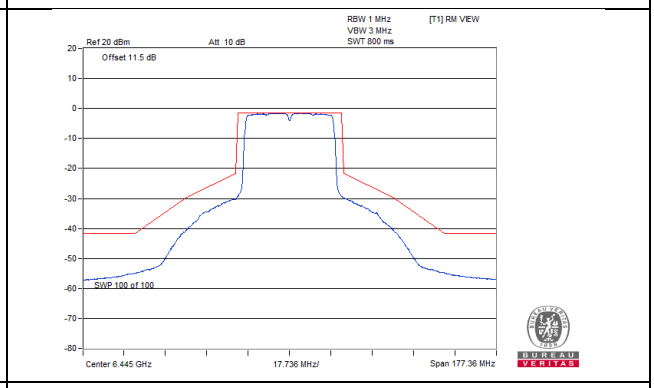
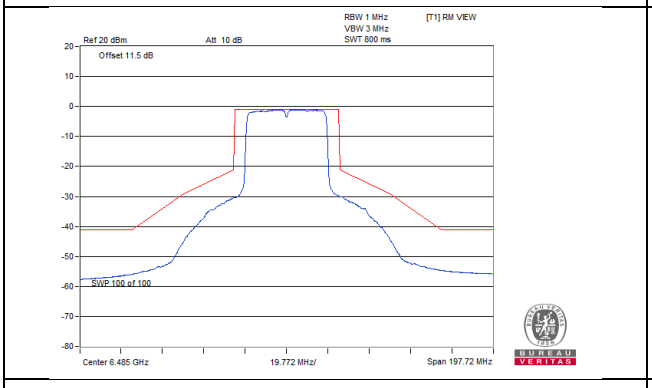
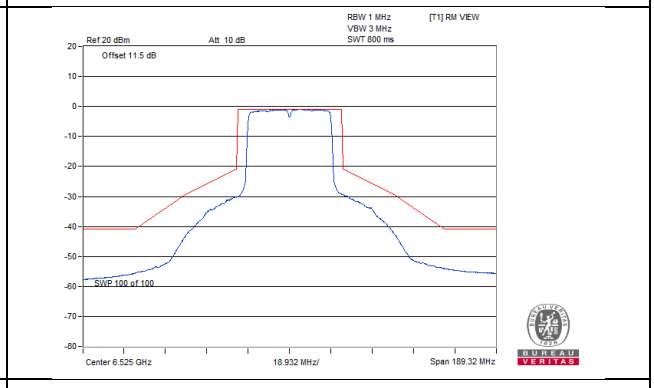
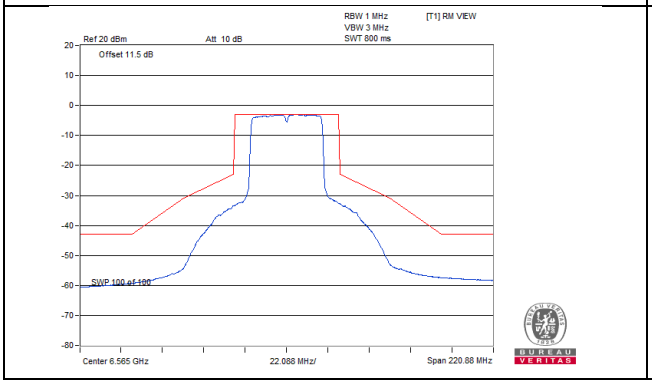
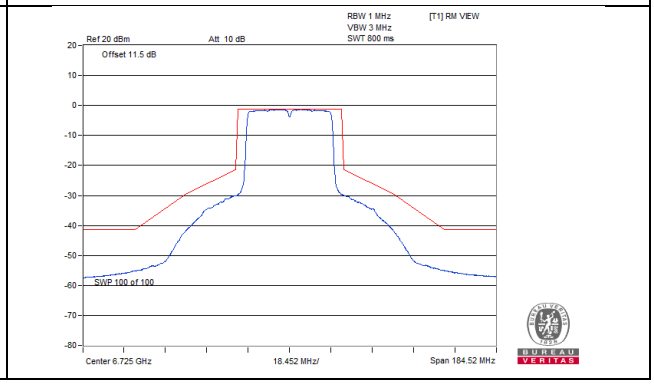
| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|   |   |
| CH 209 | CH 233 |
|   |   |

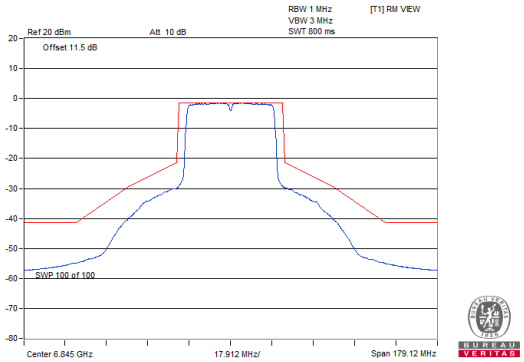
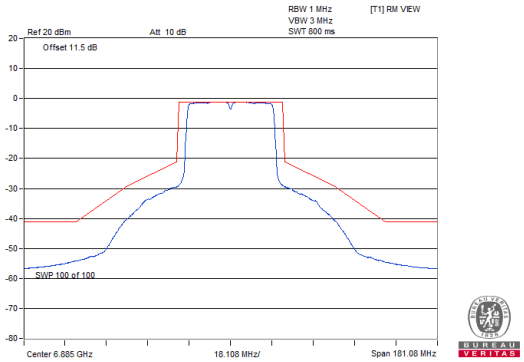
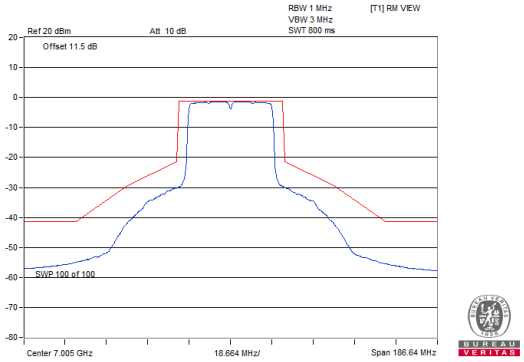
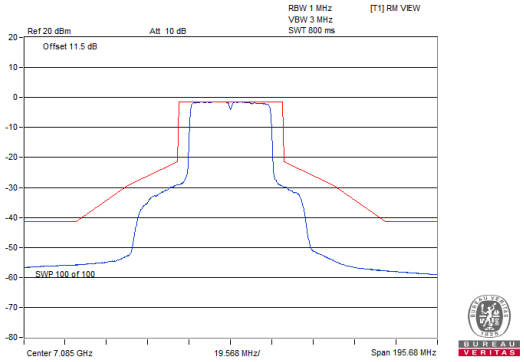
## 802.11ax (HE20)_Chain 3

| Spectrum Plot | |
|---|---|
| CH 1 | CH 45 |
|   |   |
| CH 93 | CH 97 |
|   |   |
| CH 105 | CH 113 |
|   |   |
| CH 117 | CH 149 |
|   |   |

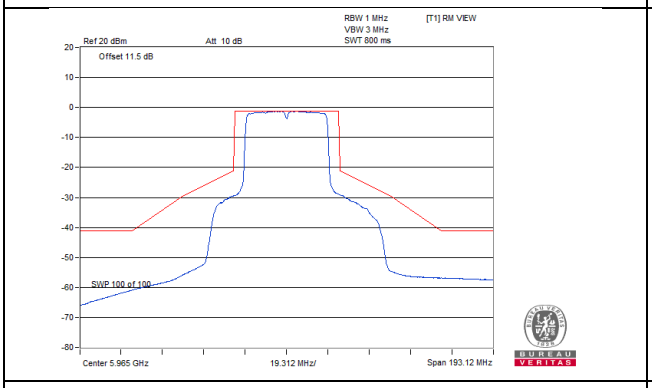
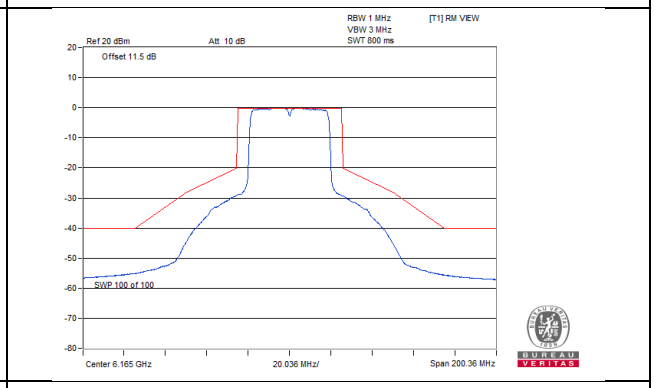
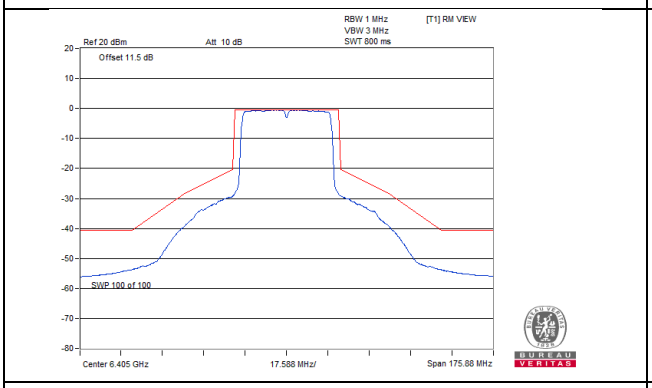
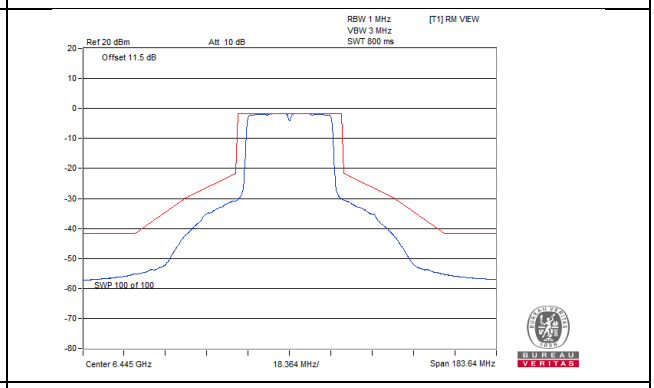
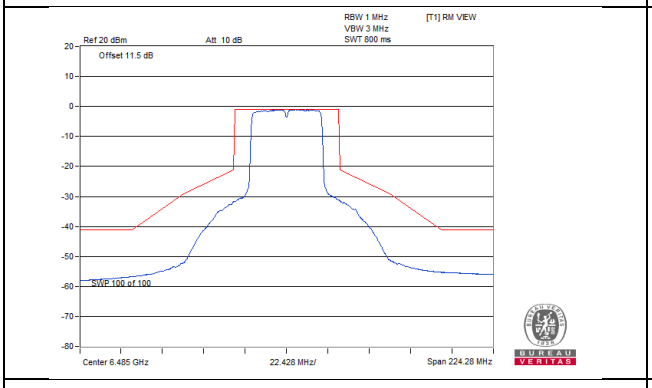
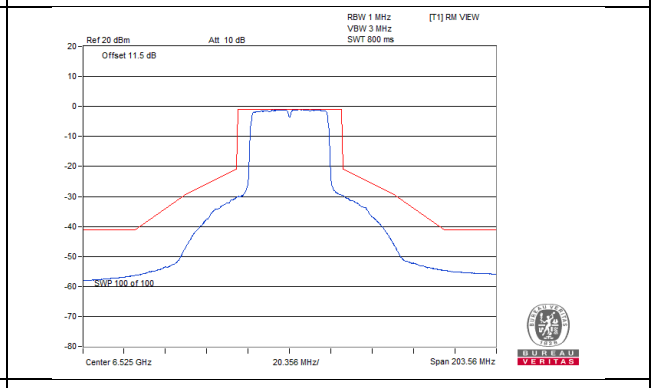
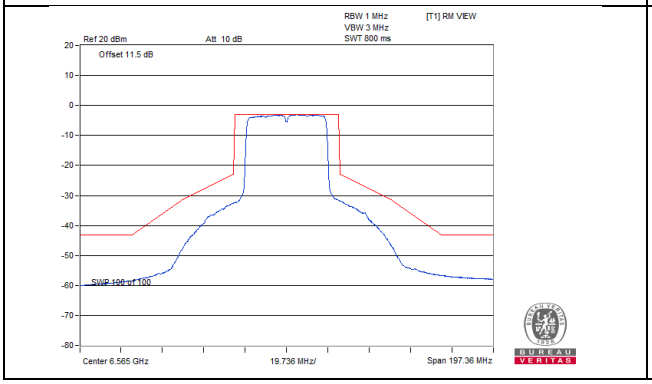
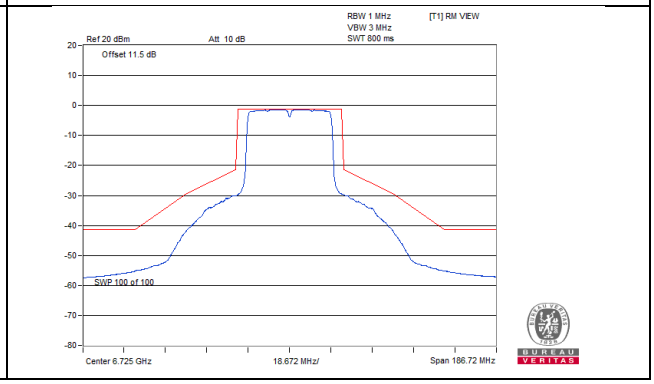
| Spectrum Plot | |
|---|---|
| CH 181 | CH 185 |
|  |  |
| CH 209 | CH 233 |
|  |  |

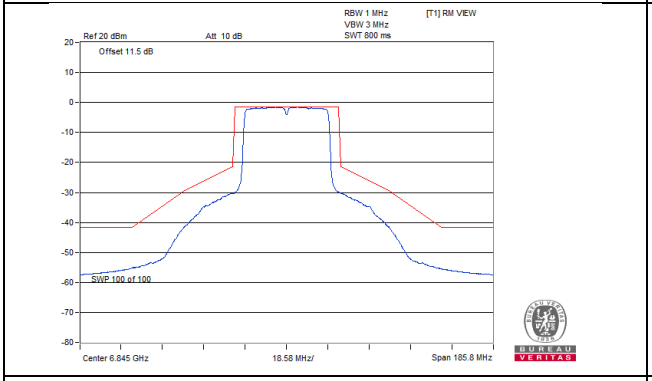
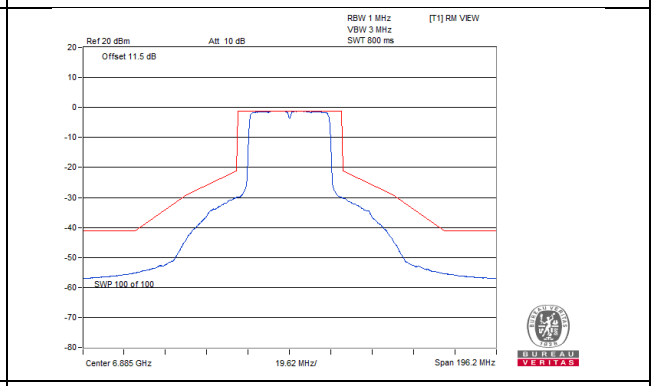
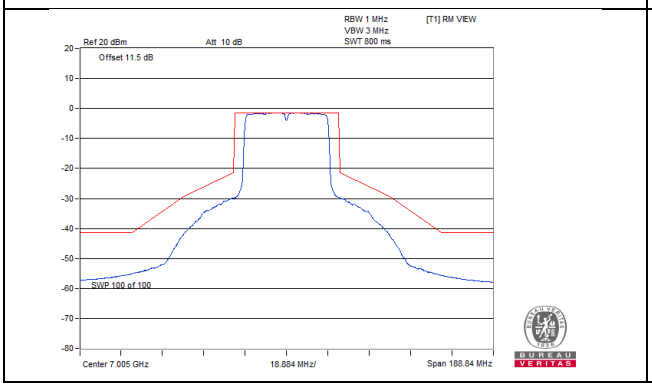
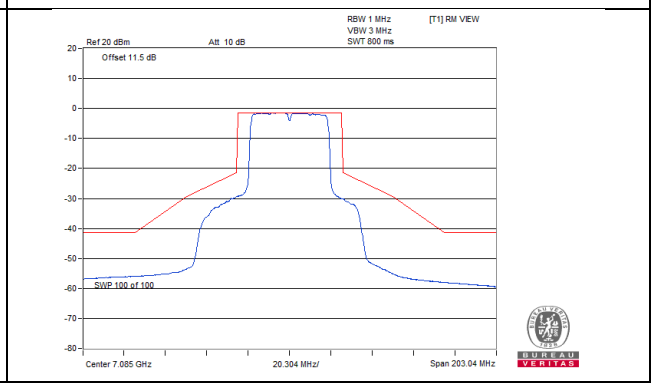
## 802.11ax (HE40)_Chain 0

| Spectrum Plot | |
|---|---|
| CH 3 | CH 43 |
|  |  |
| CH 91 | CH 99 |
|  |  |
| CH 107 | CH 115 |
|  |  |
| CH 123 | CH 155 |
|  |  |

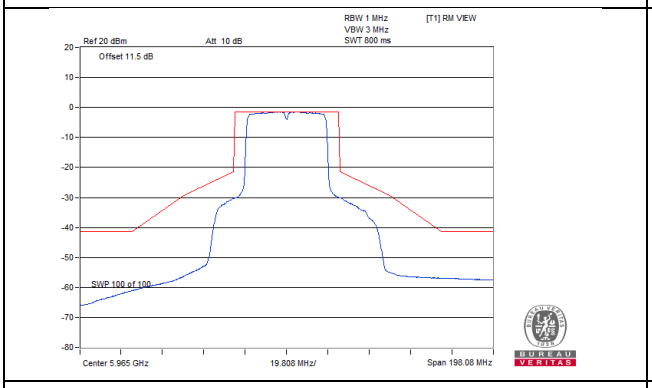
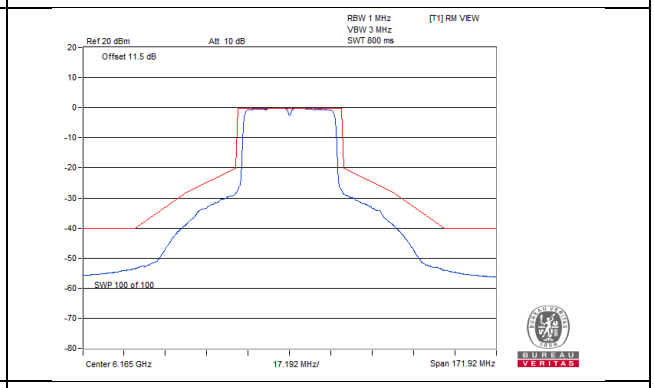
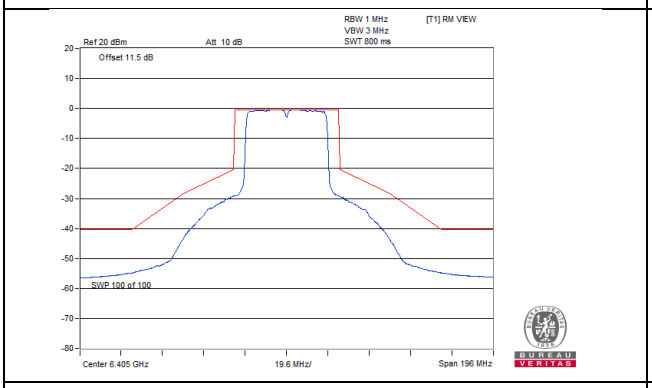
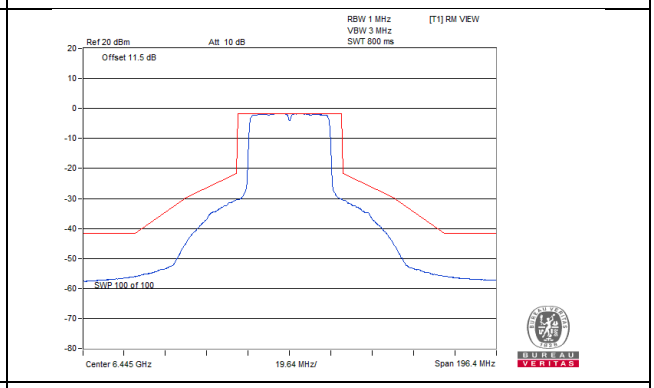
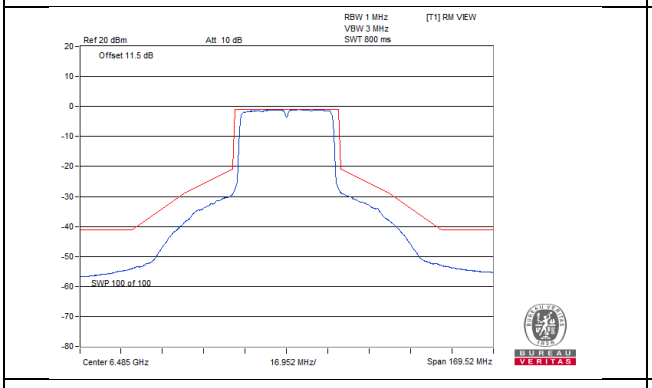
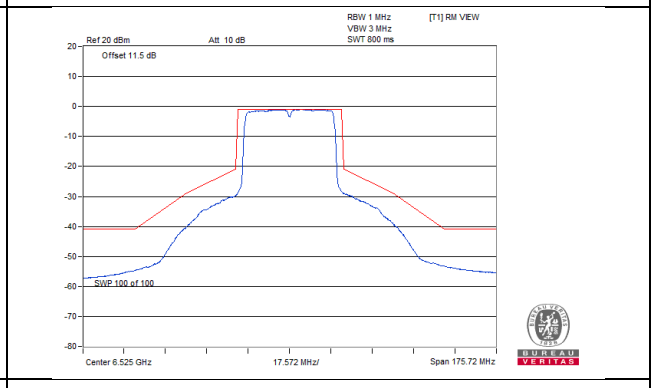
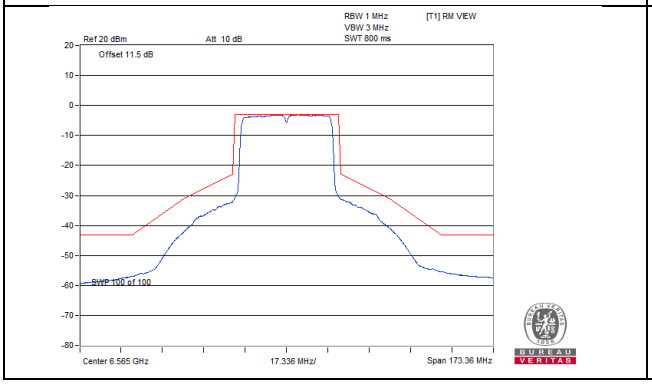
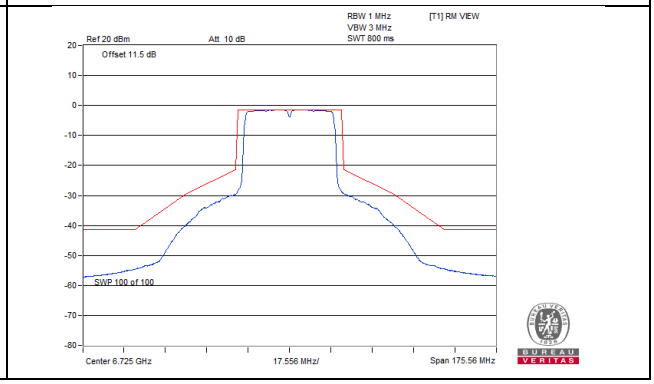
| Spectrum Plot | |
|---|---|
| CH 179 | CH 187 |
|   |   |
| CH 211 | CH 227 |
|   |   |

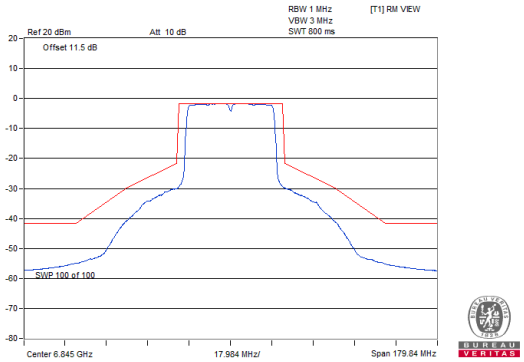
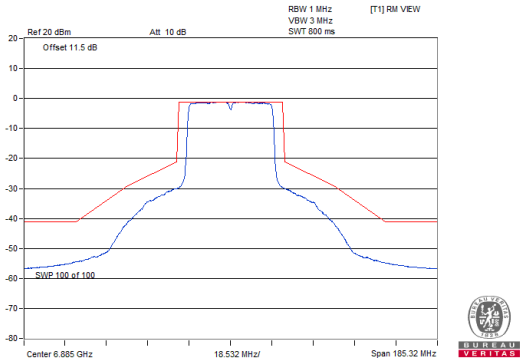
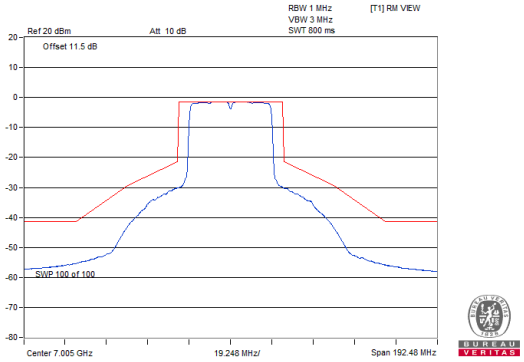
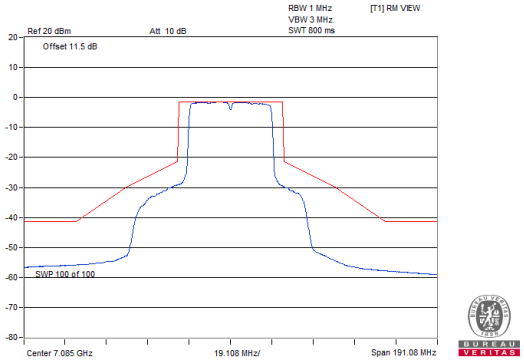
## 802.11ax (HE40)_Chain 1

| Spectrum Plot | |
|---|---|
| CH 3 | CH 43 |
|  |  |
| CH 91 | CH 99 |
|  |  |
| CH 107 | CH 115 |
|  |  |
| CH 123 | CH 155 |
|  |  |

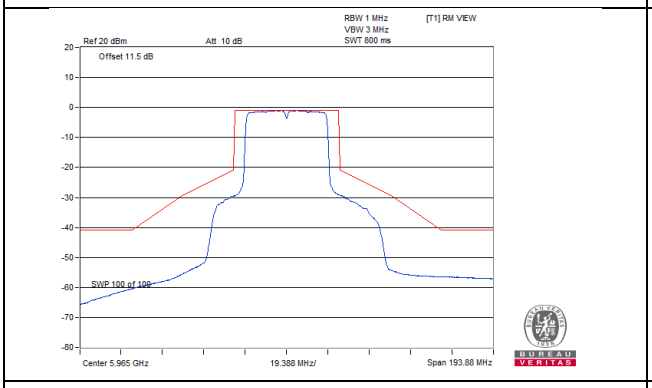
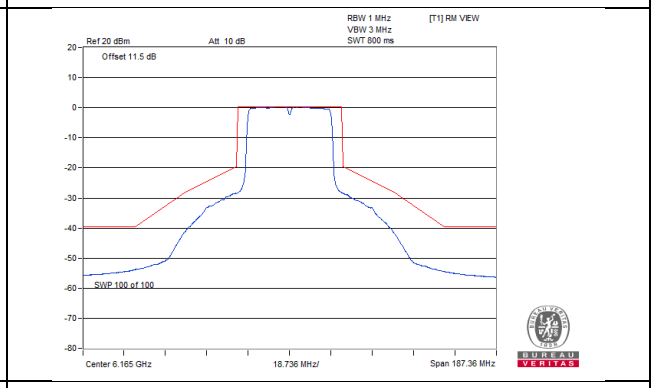
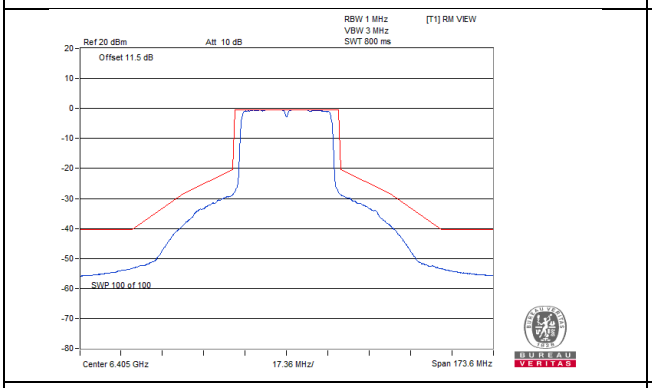
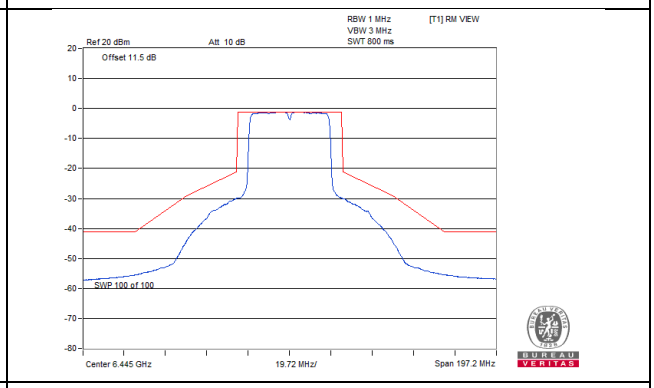
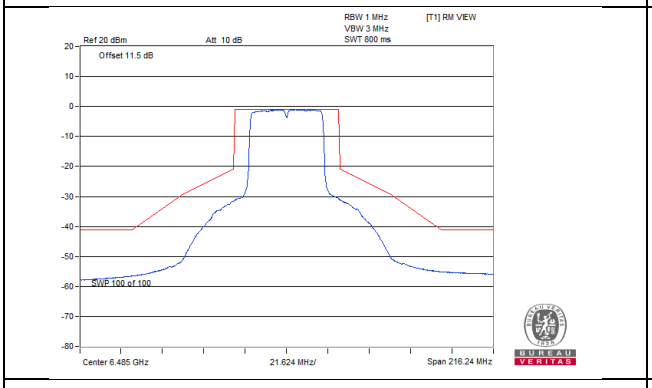
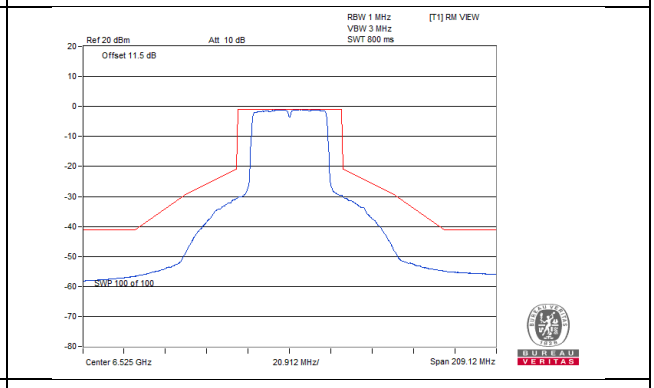
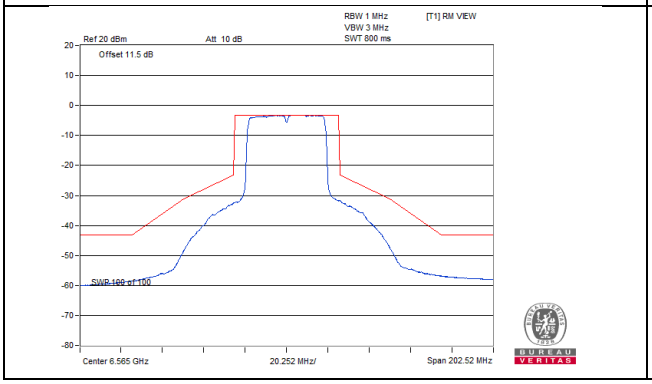
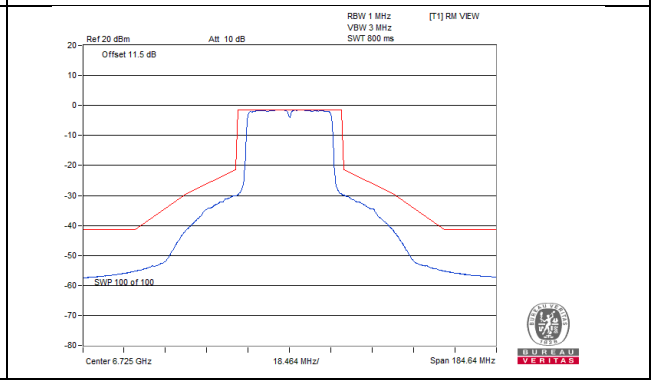
| Spectrum Plot | |
|---|---|
| CH 179 | CH 187 |
|  |  |
| CH 211 | CH 227 |
|  |  |

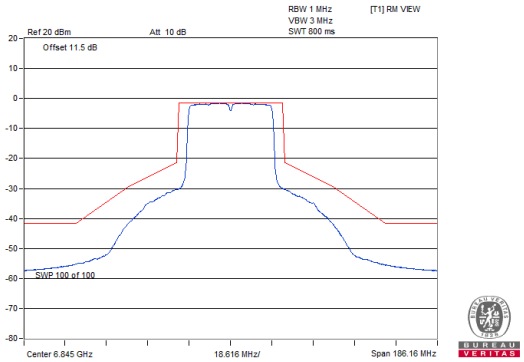
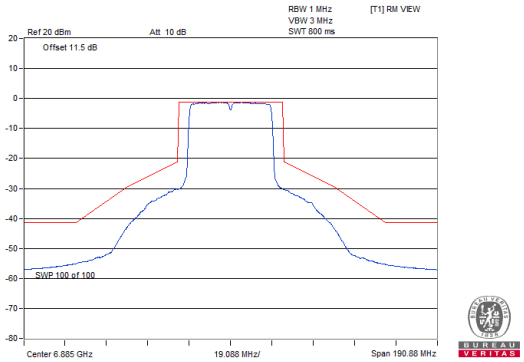
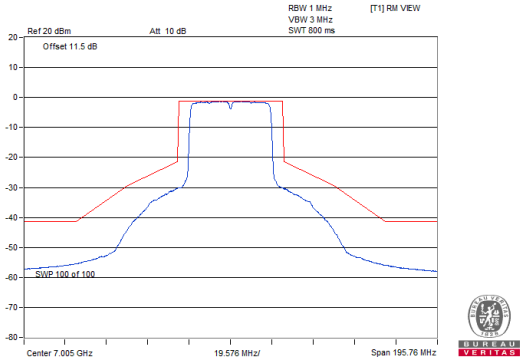
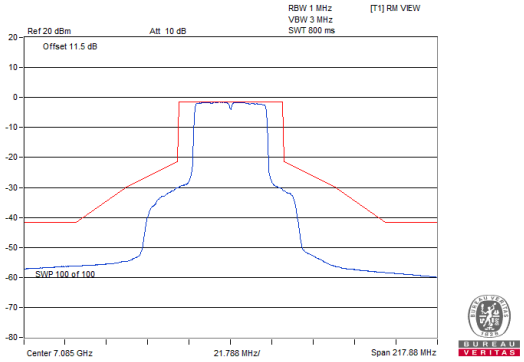
## 802.11ax (HE40)_Chain 2

| Spectrum Plot | |
|---|---|
| CH 3 | CH 43 |
|  |  |
| CH 91 | CH 99 |
|  |  |
| CH 107 | CH 115 |
|  |  |
| CH 123 | CH 155 |
|  |  |

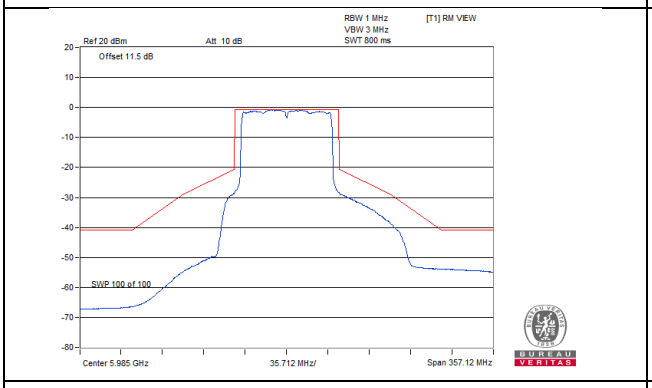
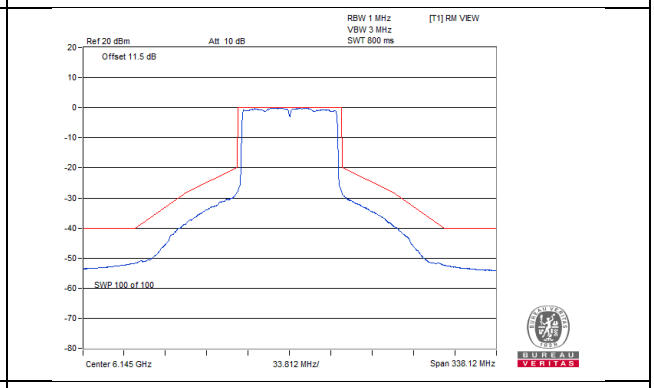
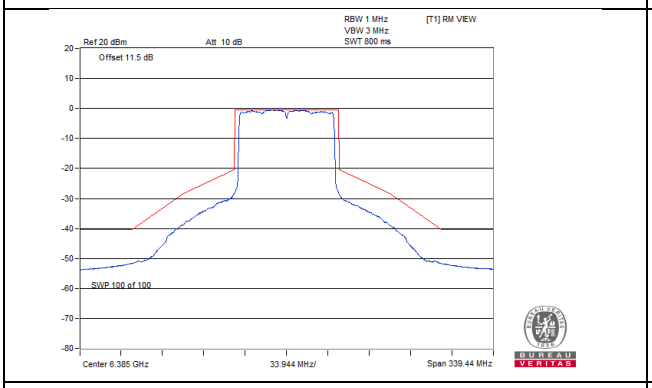
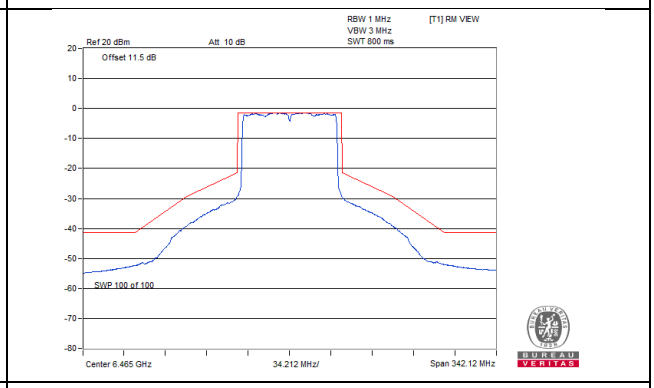
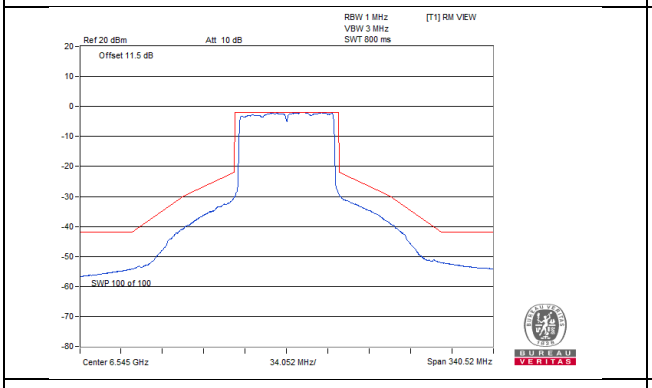
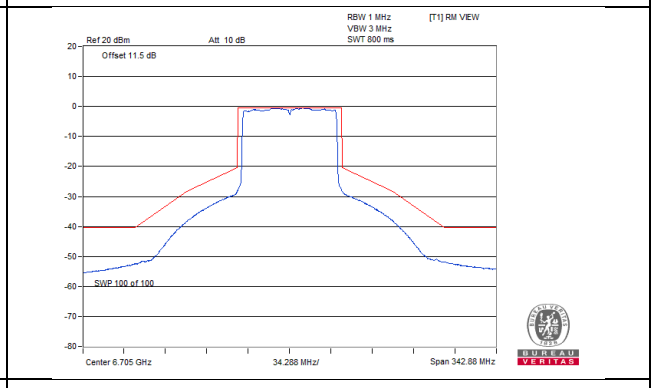
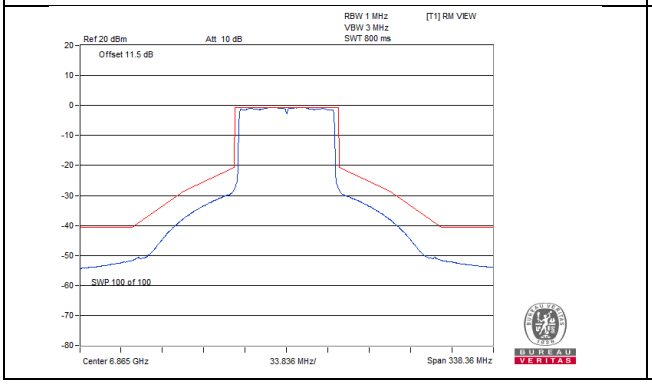
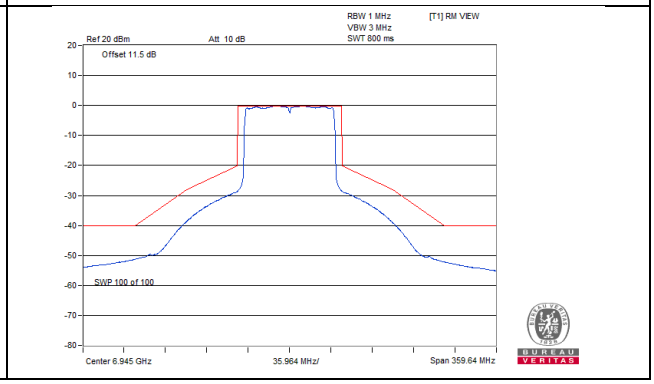
| Spectrum Plot | |
|---|---|
| CH 179 | CH 187 |
|   |   |
| CH 211 | CH 227 |
|   |   |

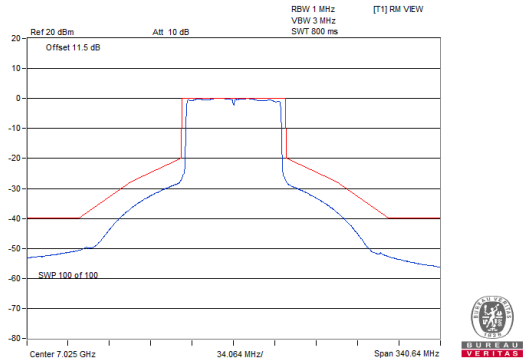
## 802.11ax (HE40)_Chain 3

| Spectrum Plot | |
|---|---|
| CH 3 | CH 43 |
|  |  |
| CH 91 | CH 99 |
|  |  |
| CH 107 | CH 115 |
|  |  |
| CH 123 | CH 155 |
|  |  |

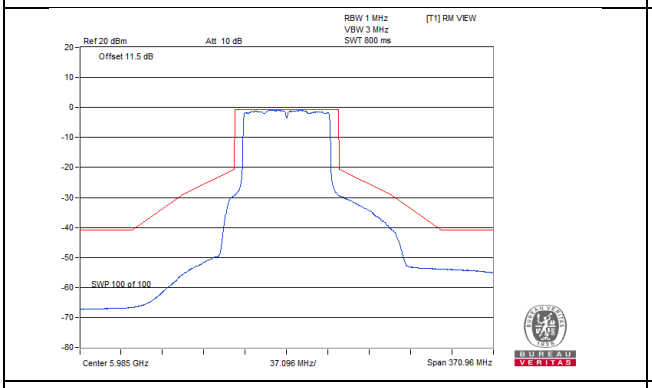
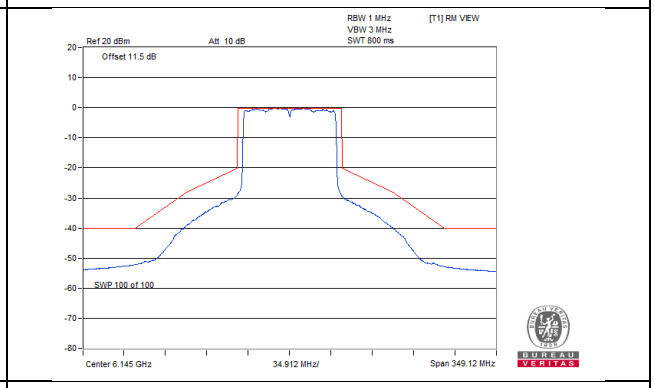
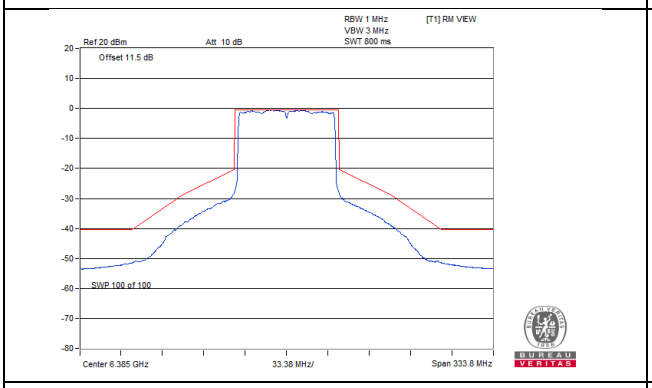
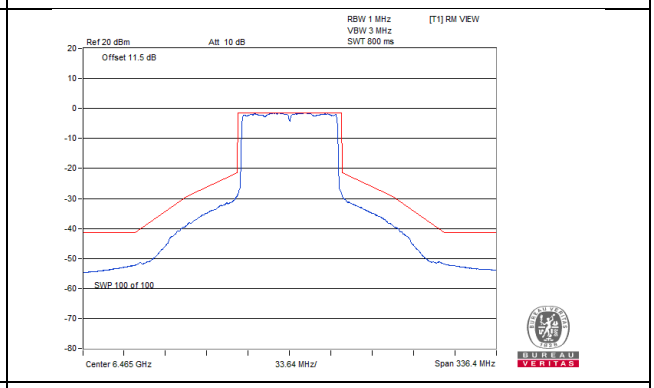
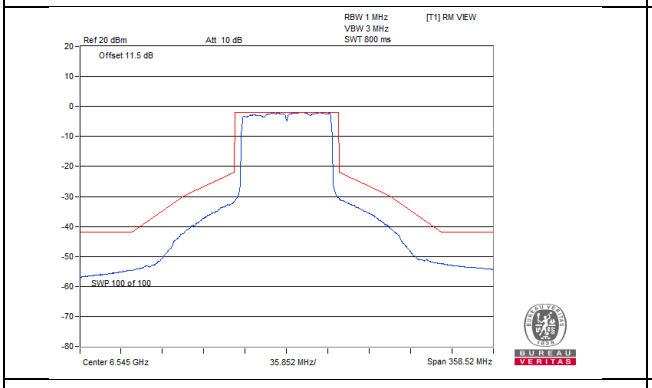
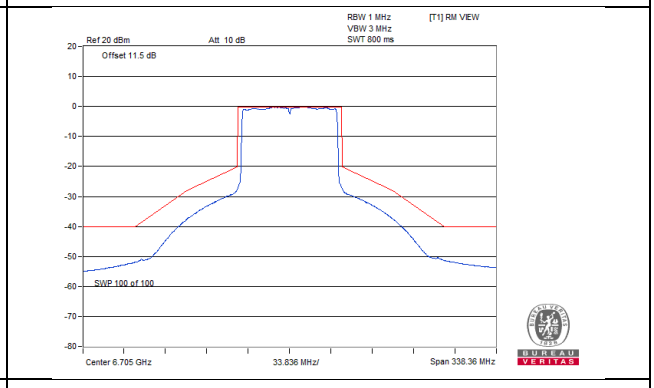
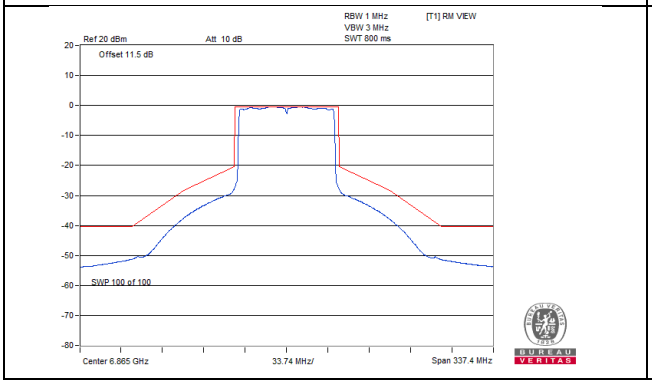
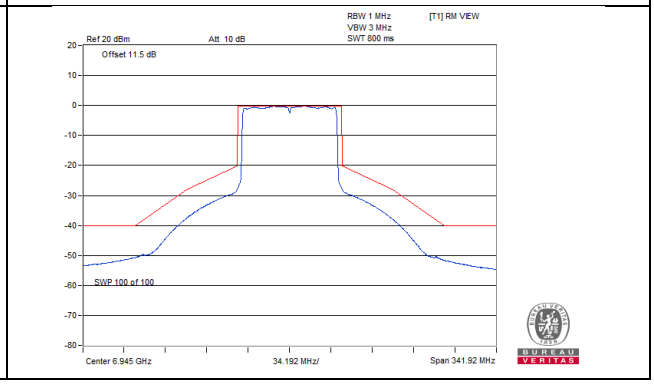
| Spectrum Plot | |
|---|---|
| CH 179 | CH 187 |
|   |   |
| CH 211 | CH 227 |
|   |   |

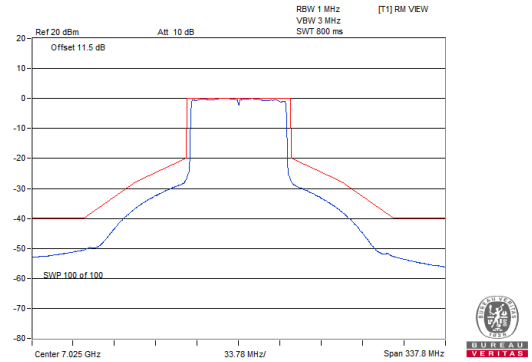
## 802.11ax (HE80)_Chain 0

| Spectrum Plot | |
|---|---|
| CH 7 | CH 39 |
|  |  |
| CH 87 | CH 103 |
|  |  |
| CH 119 | CH 151 |
|  |  |
| CH 183 | CH 199 |
|  |  |

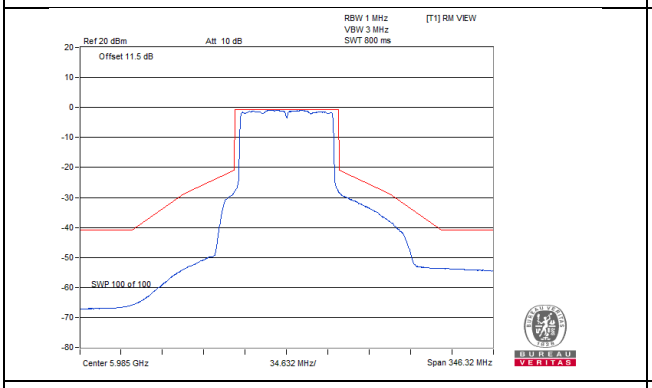
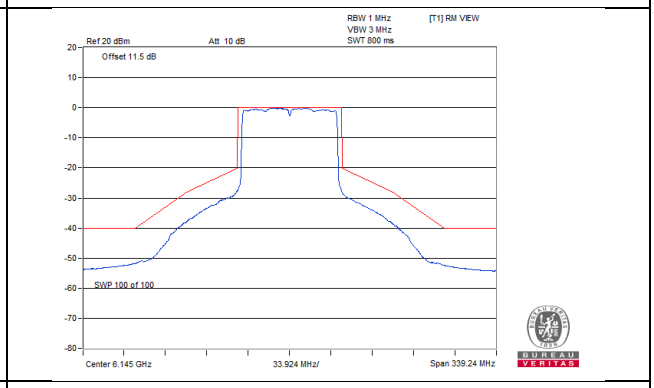
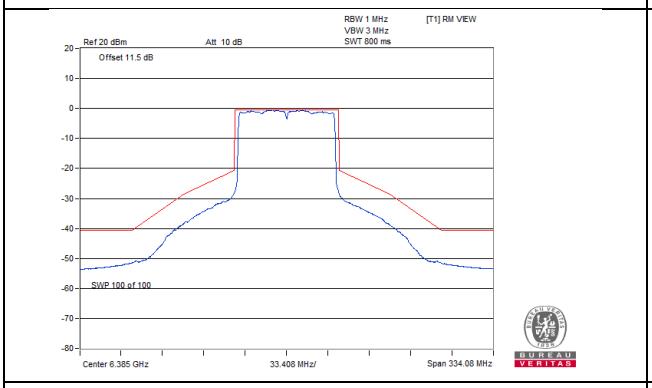
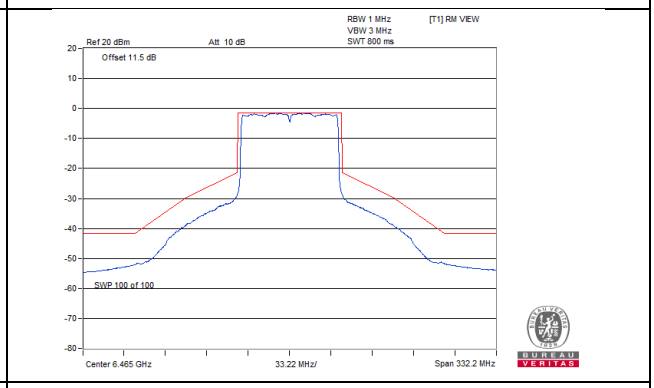
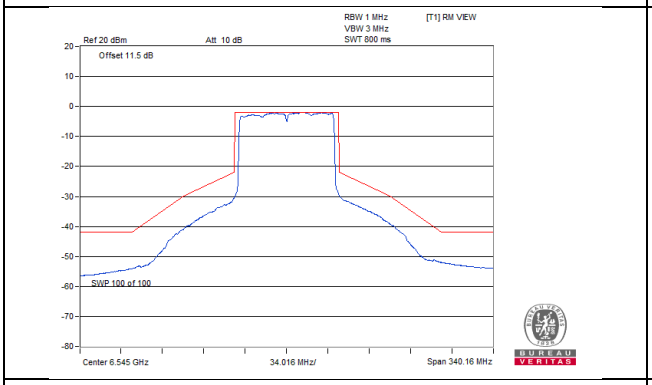
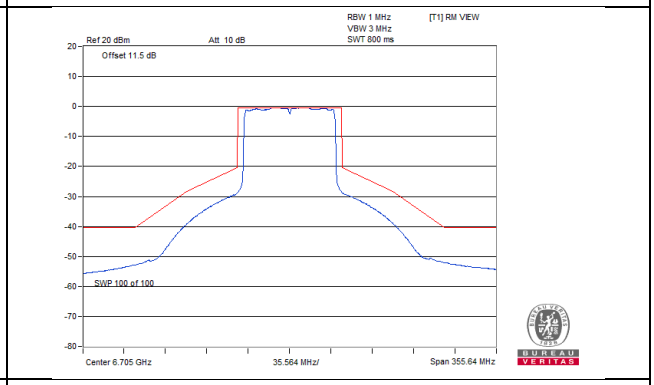
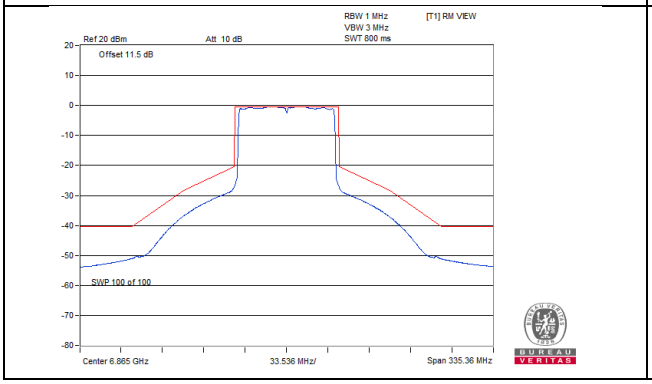
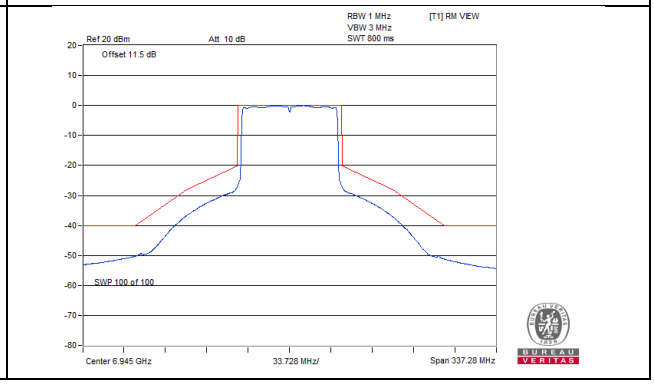
| Spectrum Plot | |
|---|---|
| CH 215 | |
|  | |

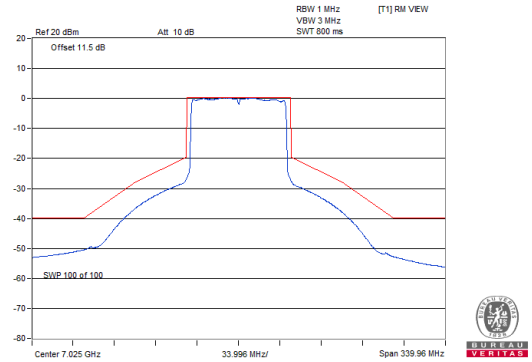
## 802.11ax (HE80)_Chain 1

| Spectrum Plot | |
|---|---|
| CH 7 | CH 39 |
|  |  |
| CH 87 | CH 103 |
|  |  |
| CH 119 | CH 151 |
|  |  |
| CH 183 | CH 199 |
|  |  |

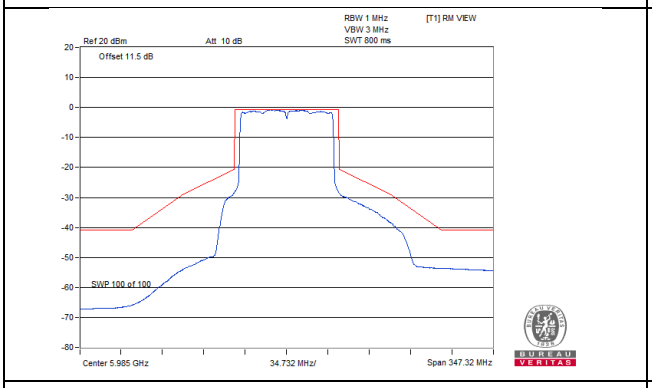
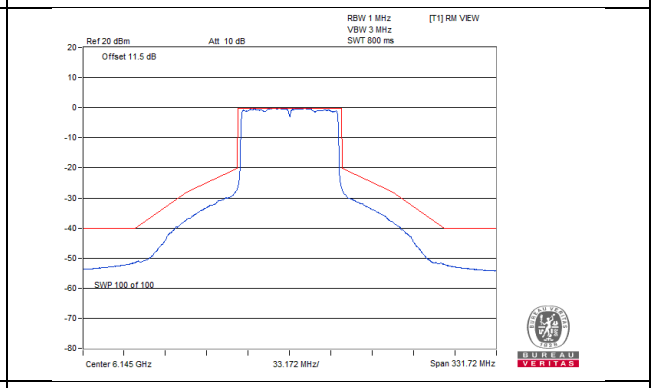
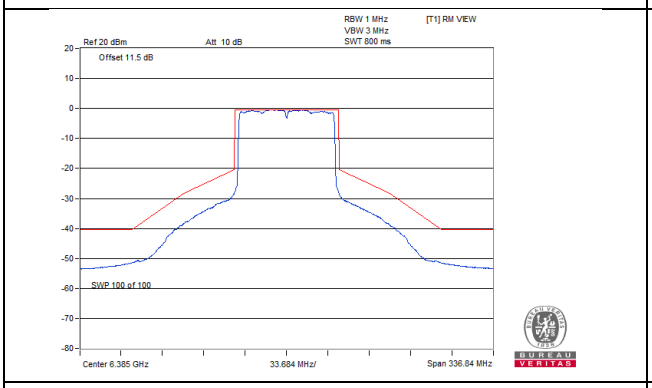
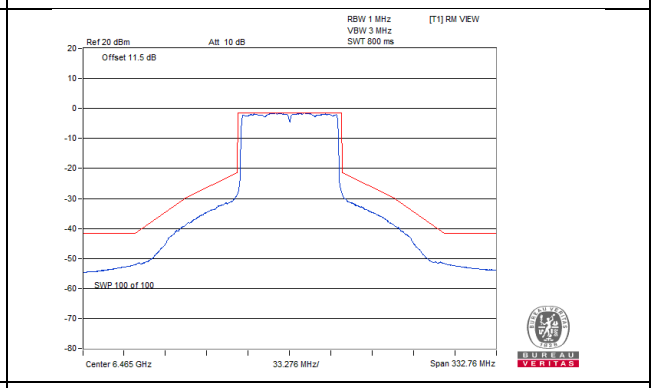
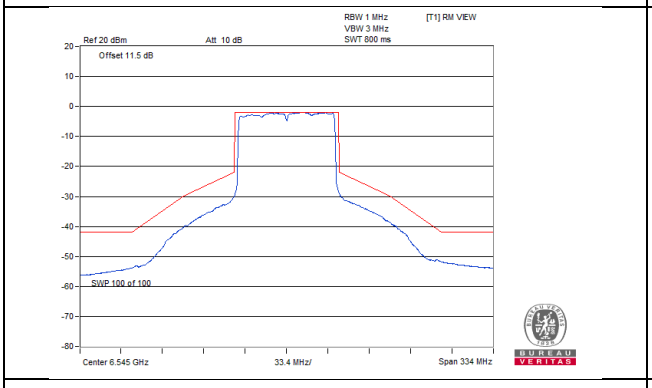
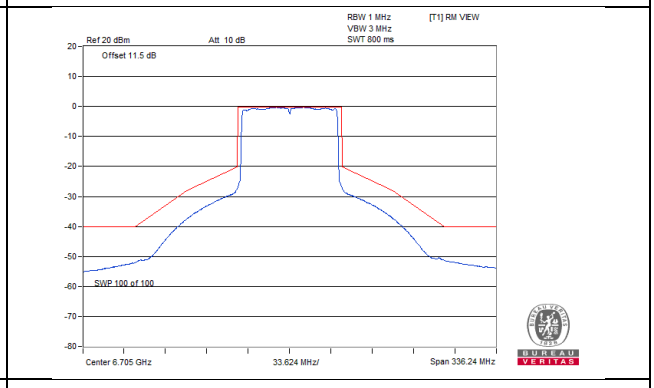
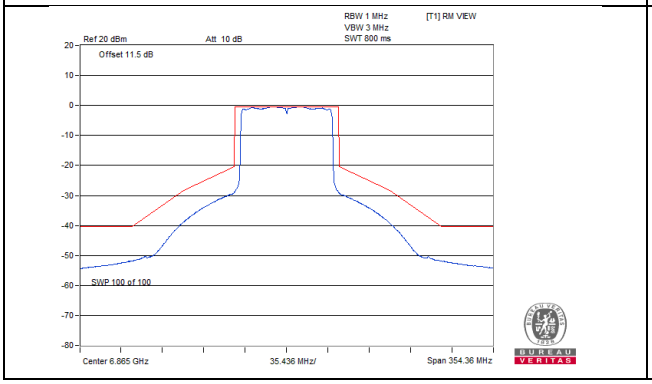
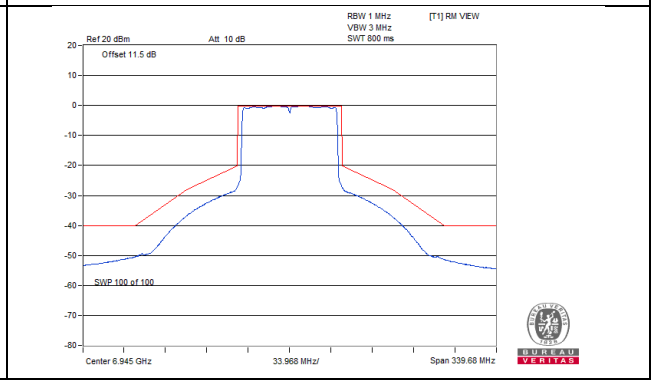
| Spectrum Plot | |
|---|---|
| CH 215 | |
|  | |

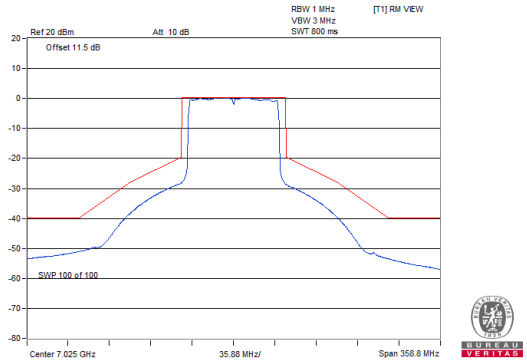
## 802.11ax (HE80)_Chain 2

| Spectrum Plot | |
|---|---|
| CH 7 | CH 39 |
|  |  |
| CH 87 | CH 103 |
|  |  |
| CH 119 | CH 151 |
|  |  |
| CH 183 | CH 199 |
|  |  |

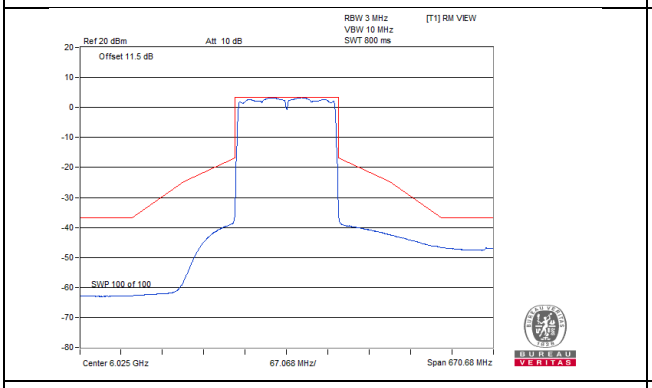
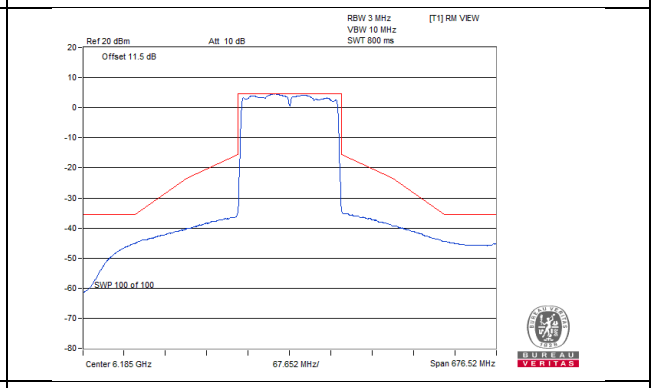
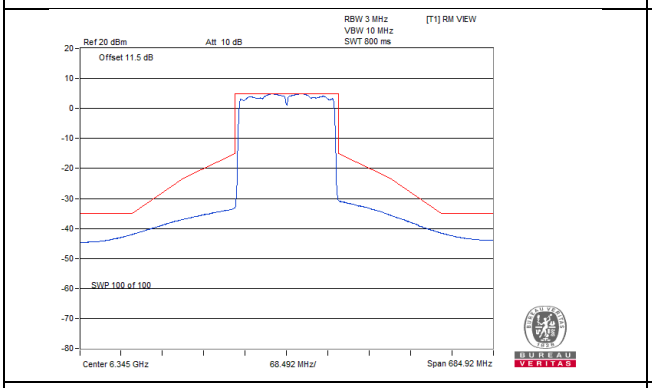
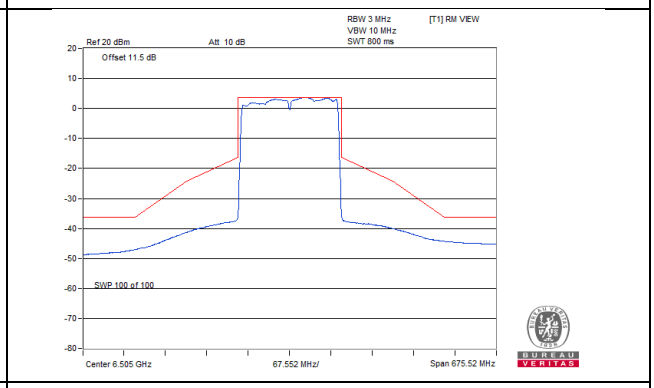
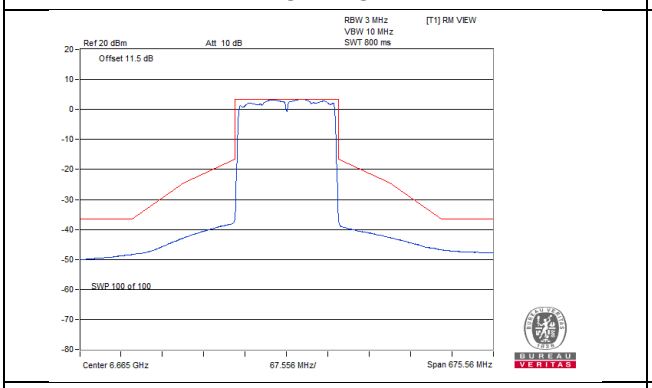
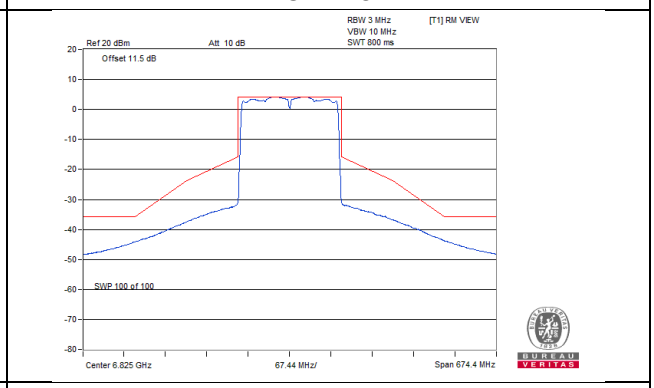
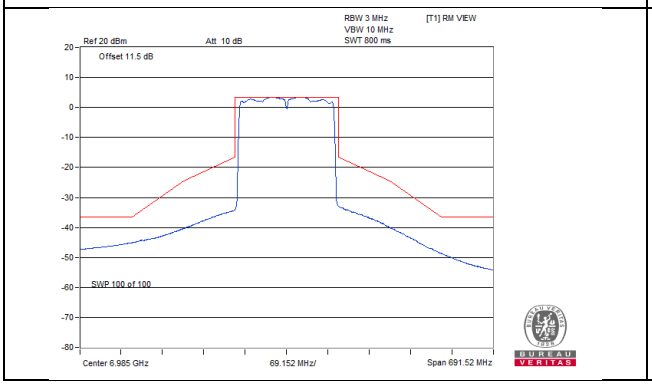
| Spectrum Plot | |
|---|---|
| CH 215 | |
|  | |

## 802.11ax (HE80)_Chain 3

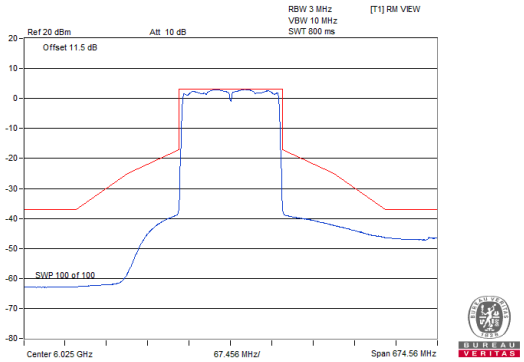
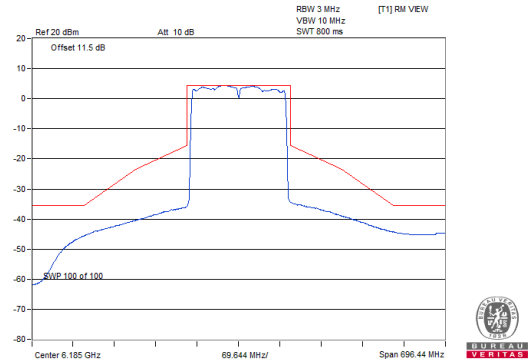
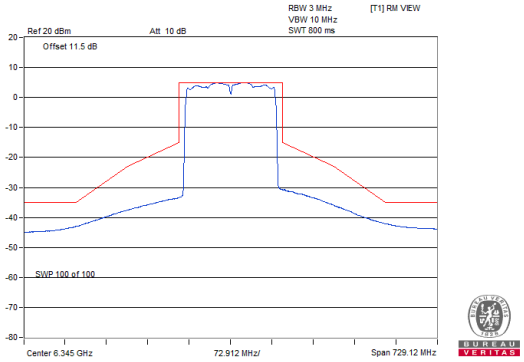
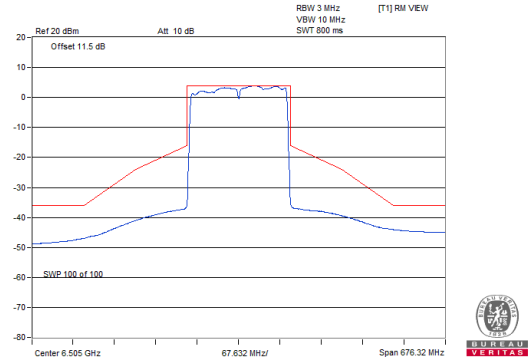
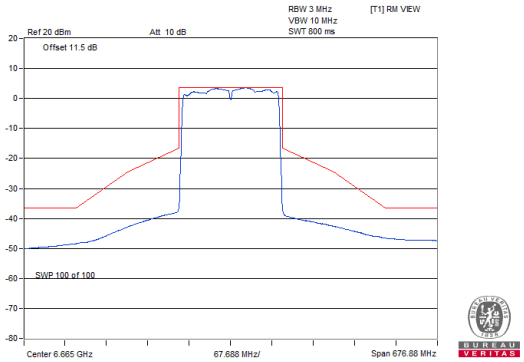
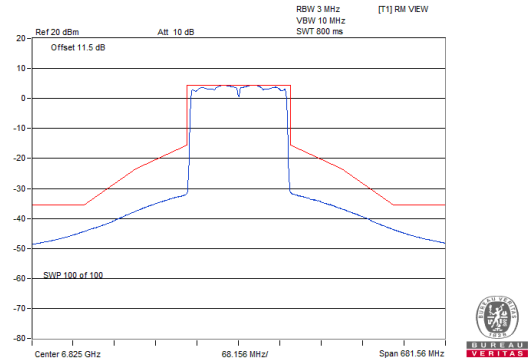
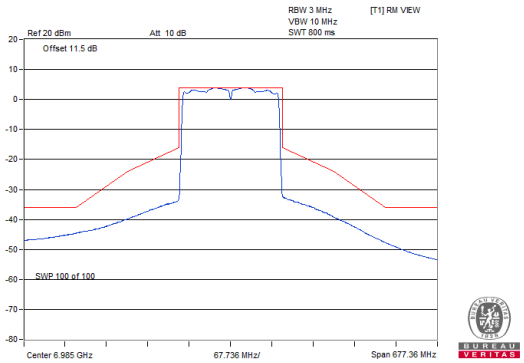
| Spectrum Plot | |
|---|---|
| CH 7 | CH 39 |
|  |  |
| CH 87 | CH 103 |
|  |  |
| CH 119 | CH 151 |
|  |  |
| CH 183 | CH 199 |
|  |  |

| Spectrum Plot | |
|---|---|
| CH 215 | |
|  | |

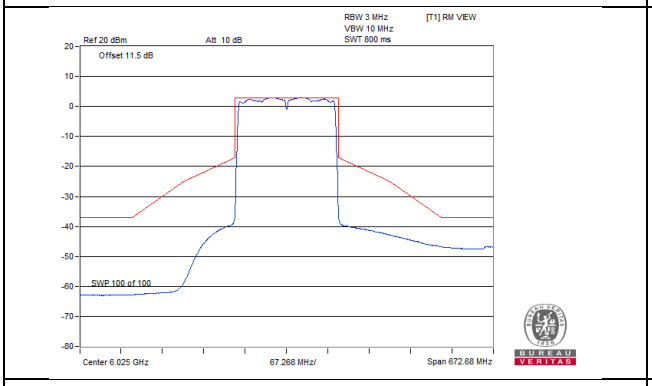
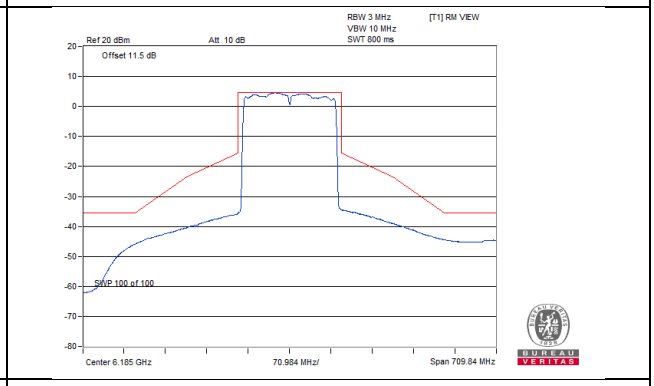
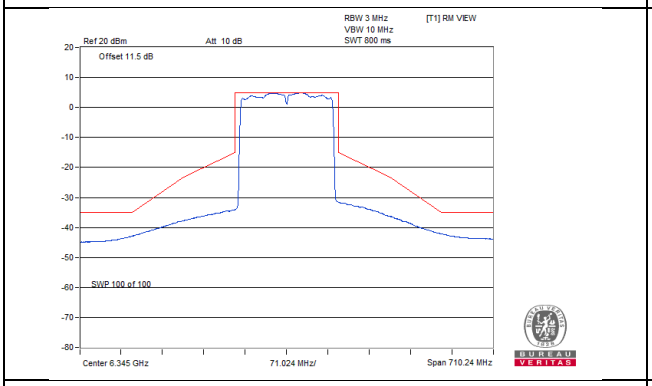
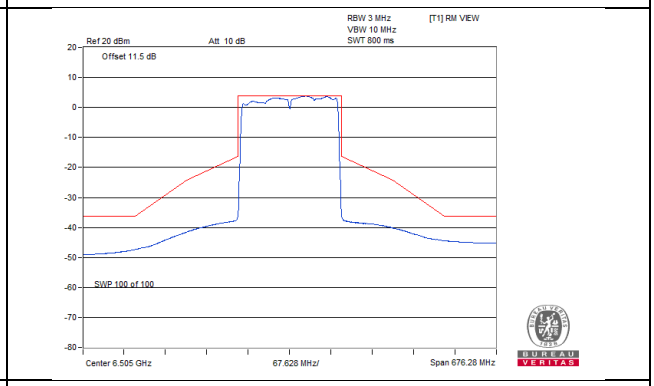
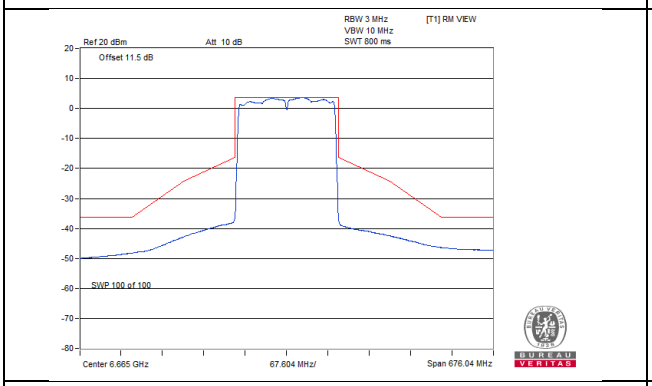
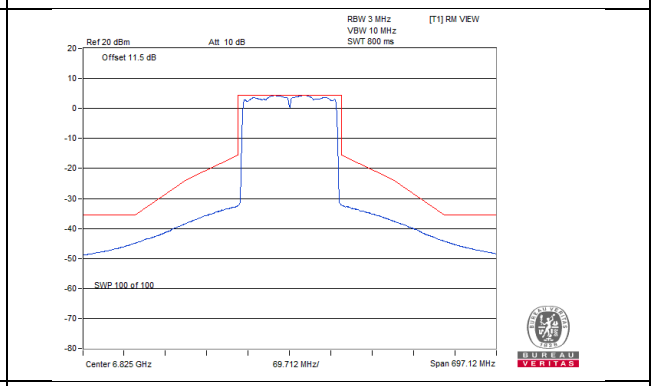
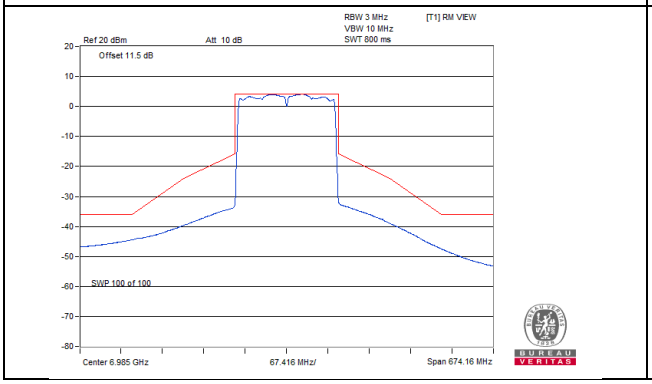
## 802.11ax (HE160)_Chain 0

| Spectrum Plot | |
|---|---|
| CH 15 | CH 47 |
|   |   |
| CH 79 | CH 111 |
|   |   |
| CH 143 | CH 175 |
|   |   |
| CH 207 | |
|   | |

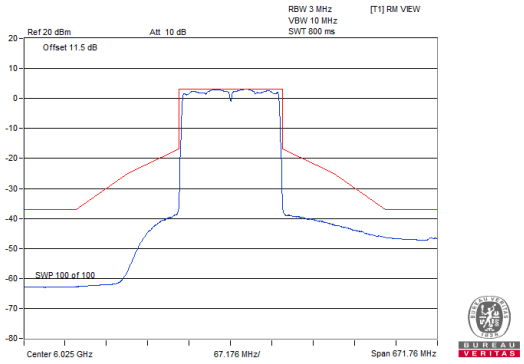
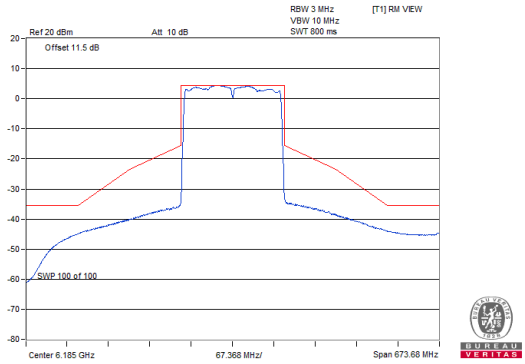
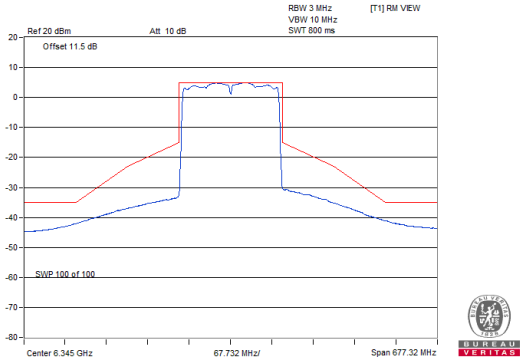
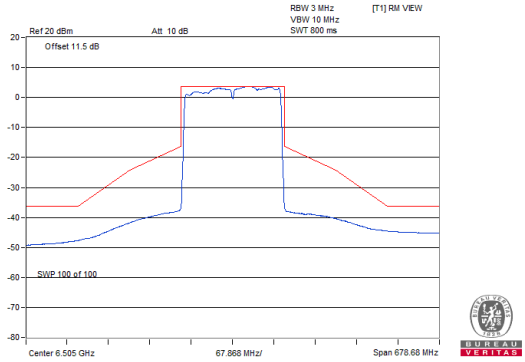
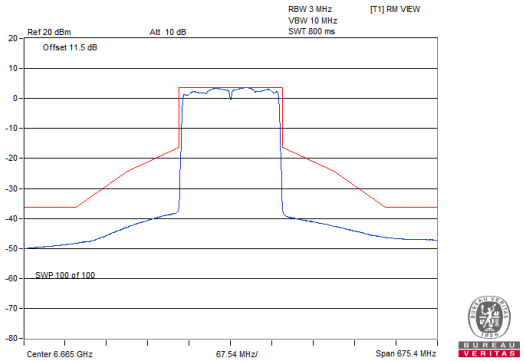
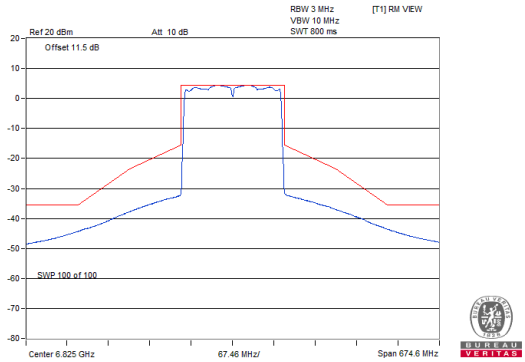
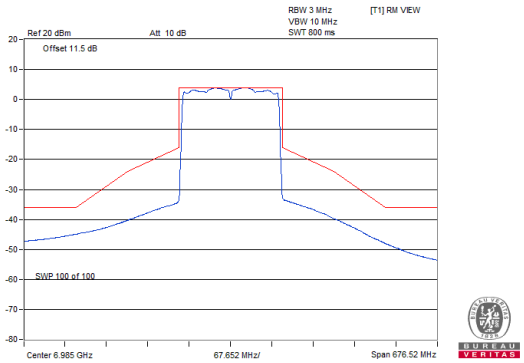
## 802.11ax (HE160)_Chain 1

| Spectrum Plot | |
|---|---|
| CH 15 | CH 47 |
|   |   |
| CH 79 | CH 111 |
|   |   |
| CH 143 | CH 175 |
|   |   |
| CH 207 | |
|   | |

## 802.11ax (HE160)_Chain 2

| Spectrum Plot | |
|---|---|
| CH 15 | CH 47 |
|   |   |
| CH 79 | CH 111 |
|   |   |
| CH 143 | CH 175 |
|   |   |
| CH 207 | |
|   | |

## 802.11ax (HE160)_Chain 3

| Spectrum Plot | |
|---|---|
| CH 15 | CH 47 |
|   |   |
| CH 79 | CH 111 |
|   |   |
| CH 143 | CH 175 |
|   |   |
| CH 207 | |
|   | |

## 4.3 Conducted Emission Measurement

### 4.3.1 Limits of Conducted Emission Measurement

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

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

### 4.3.2 Test Instruments

| Description<br>Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---|---|---|---|---|
| Test Receiver<br>ROHDE & SCHWARZ | ESCI | 100613 | 2021/12/3 | 2022/12/2 |
| RF signal cable<br>Woken | 5D-FB | Cable-cond1-01 | 2022/1/15 | 2023/1/14 |
| LISN/AMN<br>ROHDE & SCHWARZ<br>(EUT) | ENV216 | 101826 | 2022/3/14 | 2023/3/13 |
| LISN/AMN<br>ROHDE & SCHWARZ<br>(Peripheral) | ESH3-Z5 | 100311 | 2022/9/12 | 2023/9/11 |
| Software<br>ADT | BV ADT_Cond_<br>V7.3.7.4 | NA | NA | NA |

Notes:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1. (Conduction 1)
3. The VCCI Site Registration No. is C-12040.
4. Test Date: 2022/11/18

### 4.3.3 Test Procedures

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

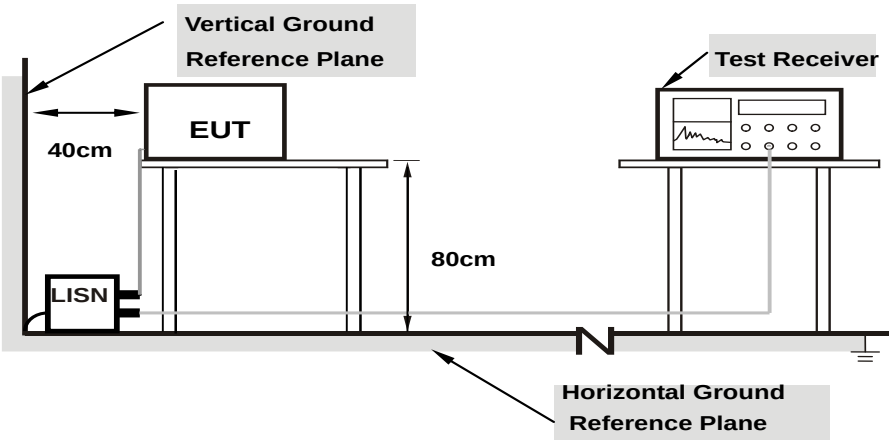
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

### 4.3.4 Deviation from Test Standard

No deviation.

### 4.3.5 Test Setup




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

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

### 4.3.6 EUT Operating Conditions

Same as 4.1.6.

### 4.3.7 Test Results

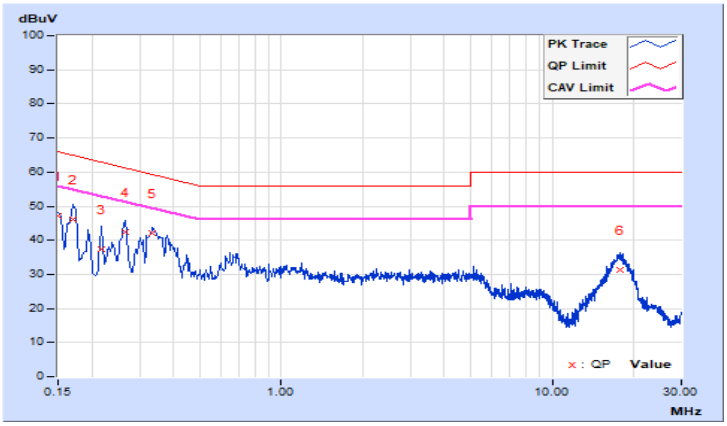
**CDD Mode**

| | | | |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power | 120Vac, 60Hz | Environmental Conditions | 23 °C, 66% RH |
| Tested by | Titan Hsu | | |

| Phase Of Power : Line (L) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15000 | 9.68 | 37.58 | 32.54 | 47.26 | 42.22 | 66.00 | 56.00 | -18.74 | -13.78 |
| 2 | 0.17000 | 9.70 | 36.49 | 24.41 | 46.19 | 34.11 | 64.96 | 54.96 | -18.77 | -20.85 |
| 3 | 0.21800 | 9.73 | 27.67 | 15.45 | 37.40 | 25.18 | 62.89 | 52.89 | -25.49 | -27.71 |
| 4 | 0.26569 | 9.75 | 32.72 | 27.01 | 42.47 | 36.76 | 61.25 | 51.25 | -18.78 | -14.49 |
| 5 | 0.33400 | 9.77 | 32.48 | 24.47 | 42.25 | 34.24 | 59.35 | 49.35 | -17.10 | -15.11 |
| 6 | 17.91800 | 10.14 | 21.08 | 12.20 | 31.22 | 22.34 | 60.00 | 50.00 | -28.78 | -27.66 |

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

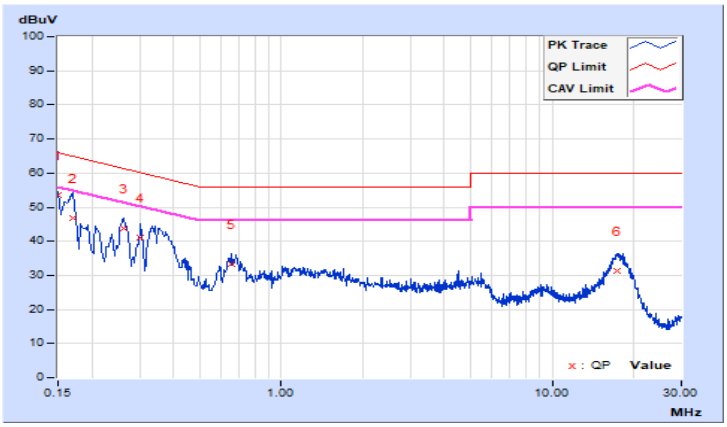


| | | | |
|---|---|---|---|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power | 120Vac, 60Hz | Environmental Conditions | 23 °C, 66% RH |
| Tested by | Titan Hsu | | |

| 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** | **0.15000** | **9.68** | **43.85** | **32.15** | **53.53** | **41.83** | **66.00** | **56.00** | **-12.47** | **-14.17** |
| 2 | 0.16977 | 9.70 | 37.10 | 24.49 | 46.80 | 34.19 | 64.97 | 54.97 | -18.17 | -20.78 |
| 3 | 0.26152 | 9.75 | 33.91 | 27.92 | 43.66 | 37.67 | 61.38 | 51.38 | -17.72 | -13.71 |
| 4 | 0.30200 | 9.77 | 31.20 | 20.51 | 40.97 | 30.28 | 60.19 | 50.19 | -19.22 | -19.91 |
| 5 | 0.65800 | 9.83 | 23.36 | 17.82 | 33.19 | 27.65 | 56.00 | 46.00 | -22.81 | -18.35 |
| 6 | 17.43800 | 10.17 | 21.01 | 12.46 | 31.18 | 22.63 | 60.00 | 50.00 | -28.82 | -27.37 |

Remarks:

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

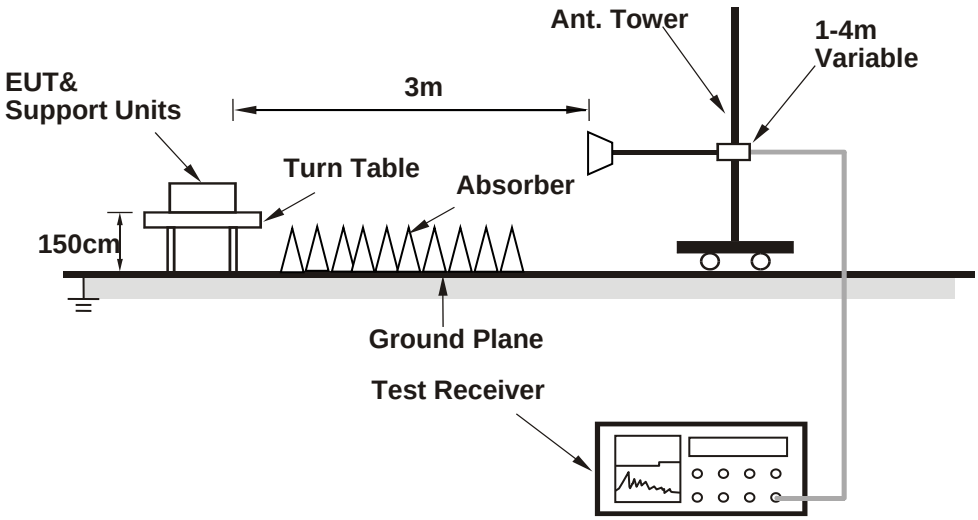


## 4.4 Transmit Power Measurement

### 4.4.1 Limits of Transmit Power Measurement

| Operation Band | EUT Category | Limit |
|---|---|---|
| | | Max Average Power |
| U-NII-5<br>U-NII-6<br>U-NII-7<br>U-NII-8 | Indoor AP | EIRP 30 dBm |

### 4.4.2 Test Setup




### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.4 Test Procedure

a. 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.

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. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP level.

e. Follow ANSI 63.10 and KDB 412172 D01 v01r01, EIRP Value (dBm) = Field Strength Value (dBµV/m) + Correction Factor @ 3m.

f. Correction Factor (dB) @ 3m = 20log(D) − 104.7; where D is the measurement distance @3m = -95.23dB

Note: Spectrum analyzer setting as below:

**Method SA-1**

1. Set span to encompass the entire 99% occupied bandwidth of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent) ; Set video trigger (duty cycle < 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal.

### 4.4.5 Test Result

**CDD Mode**

802.11a

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 1 | 5955 | 108.95 | -95.23 | 23.55 | 13.72 | 30 | Pass |
| 45 | 6175 | 108.12 | -95.23 | 19.454 | 12.89 | 30 | Pass |
| 93 | 6415 | 107.85 | -95.23 | 18.281 | 12.62 | 30 | Pass |
| 97 | 6435 | 109.02 | -95.23 | 23.933 | 13.79 | 30 | Pass |
| 105 | 6475 | 108.87 | -95.23 | 23.121 | 13.64 | 30 | Pass |
| 113 | 6515 | 108.49 | -95.23 | 21.184 | 13.26 | 30 | Pass |
| 117 | 6535 | 107.05 | -95.23 | 15.205 | 11.82 | 30 | Pass |
| 149 | 6695 | 107.24 | -95.23 | 15.885 | 12.01 | 30 | Pass |
| 181 | 6855 | 108.16 | -95.23 | 19.634 | 12.93 | 30 | Pass |
| 185 | 6875 | 108.49 | -95.23 | 21.184 | 13.26 | 30 | Pass |
| 209 | 6995 | 108.47 | -95.23 | 21.086 | 13.24 | 30 | Pass |
| 233 | 7115 | 104.68 | -95.23 | 8.81 | 9.45 | 30 | Pass |

Spectrum Plot of Worst Value

CH 97

802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 1 | 5955 | 107.95 | -95.23 | 18.707 | 12.72 | 30 | Pass |
| 45 | 6175 | 107.25 | -95.23 | 15.922 | 12.02 | 30 | Pass |
| 93 | 6415 | 107.98 | -95.23 | 18.836 | 12.75 | 30 | Pass |
| 97 | 6435 | 108.49 | -95.23 | 21.184 | 13.26 | 30 | Pass |
| 105 | 6475 | 108.24 | -95.23 | 19.999 | 13.01 | 30 | Pass |
| 113 | 6515 | 108.61 | -95.23 | 21.777 | 13.38 | 30 | Pass |
| 117 | 6535 | 107.42 | -95.23 | 16.558 | 12.19 | 30 | Pass |
| 149 | 6695 | 107.56 | -95.23 | 17.1 | 12.33 | 30 | Pass |
| 181 | 6855 | 109.37 | -95.23 | 25.942 | 14.14 | 30 | Pass |
| 185 | 6875 | 109.57 | -95.23 | 27.164 | 14.34 | 30 | Pass |
| 209 | 6995 | 109.73 | -95.23 | 28.184 | 14.50 | 30 | Pass |
| 233 | 7115 | 99.06 | -95.23 | 2.415 | 3.83 | 30 | Pass |

Spectrum Plot of Worst Value

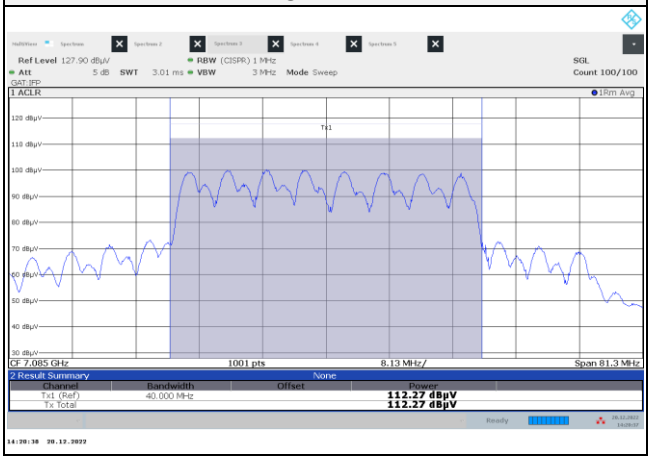
CH 209

802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 3 | 5965 | 110.52 | -95.23 | 33.806 | 15.29 | 30 | Pass |
| 43 | 6165 | 110.79 | -95.23 | 35.975 | 15.56 | 30 | Pass |
| 91 | 6405 | 112.25 | -95.23 | 50.35 | 17.02 | 30 | Pass |
| 99 | 6445 | 111.71 | -95.23 | 44.463 | 16.48 | 30 | Pass |
| 107 | 6485 | 111.15 | -95.23 | 39.084 | 15.92 | 30 | Pass |
| 115 | 6525 | 111.44 | -95.23 | 41.783 | 16.21 | 30 | Pass |
| 123 | 6565 | 110.41 | -95.23 | 32.961 | 15.18 | 30 | Pass |
| 155 | 6725 | 111.05 | -95.23 | 38.194 | 15.82 | 30 | Pass |
| 179 | 6845 | 111.36 | -95.23 | 41.02 | 16.13 | 30 | Pass |
| 187 | 6885 | 112.08 | -95.23 | 48.417 | 16.85 | 30 | Pass |
| 211 | 7005 | 111.54 | -95.23 | 42.756 | 16.31 | 30 | Pass |
| 227 | 7085 | 112.27 | -95.23 | 50.582 | 17.04 | 30 | Pass |

Spectrum Plot of Worst Value

CH 227



802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 7 | 5985 | 114.05 | -95.23 | 76.208 | 18.82 | 30 | Pass |
| 39 | 6145 | 113.41 | -95.23 | 65.766 | 18.18 | 30 | Pass |
| 87 | 6385 | 115.03 | -95.23 | 95.499 | 19.80 | 30 | Pass |
| 103 | 6465 | 114.12 | -95.23 | 77.446 | 18.89 | 30 | Pass |
| 119 | 6545 | 113.72 | -95.23 | 70.632 | 18.49 | 30 | Pass |
| 151 | 6705 | 113.45 | -95.23 | 66.374 | 18.22 | 30 | Pass |
| 183 | 6865 | 114.92 | -95.23 | 93.111 | 19.69 | 30 | Pass |
| 199 | 6945 | 115.48 | -95.23 | 105.925 | 20.25 | 30 | Pass |
| 215 | 7025 | 115.74 | -95.23 | 112.46 | 20.51 | 30 | Pass |

Spectrum Plot of Worst Value

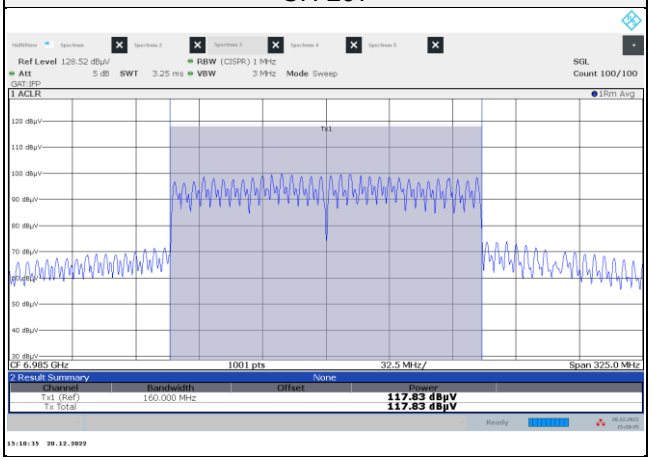
CH 215

## 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 15 | 6025 | 115.95 | -95.23 | 118.032 | 20.72 | 30 | Pass |
| 47 | 6185 | 115.93 | -95.23 | 117.49 | 20.70 | 30 | Pass |
| 79 | 6345 | 117.57 | -95.23 | **171.396** | **22.34** | 30 | Pass |
| 111 | 6505 | 116.63 | -95.23 | **138.038** | **21.40** | 30 | Pass |
| 143 | 6665 | 115.98 | -95.23 | 118.85 | 20.75 | 30 | Pass |
| 175 | 6825 | 117.38 | -95.23 | **164.059** | **22.15** | 30 | Pass |
| 207 | 6985 | 117.83 | -95.23 | **181.97** | **22.60** | 30 | Pass |

Spectrum Plot of Worst Value

CH 207



## Beamforming Mode

802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 1 | 5955 | 112.57 | -95.23 | 54.2 | 17.34 | 30 | Pass |
| 45 | 6175 | 112.61 | -95.23 | 54.702 | 17.38 | 30 | Pass |
| 93 | 6415 | 112.55 | -95.23 | 53.951 | 17.32 | 30 | Pass |
| 97 | 6435 | 110.61 | -95.23 | 34.514 | 15.38 | 30 | Pass |
| 105 | 6475 | 110.12 | -95.23 | 30.832 | 14.89 | 30 | Pass |
| 113 | 6515 | 111.97 | -95.23 | 47.206 | 16.74 | 30 | Pass |
| 117 | 6535 | 110.62 | -95.23 | 34.594 | 15.39 | 30 | Pass |
| 149 | 6695 | 109.85 | -95.23 | 28.973 | 14.62 | 30 | Pass |
| 181 | 6855 | 109.62 | -95.23 | 27.479 | 14.39 | 30 | Pass |
| 185 | 6875 | 112.01 | -95.23 | 47.643 | 16.78 | 30 | Pass |
| 209 | 6995 | 111.45 | -95.23 | 41.879 | 16.22 | 30 | Pass |
| 233 | 7115 | 94.51 | -95.23 | 0.847 | -0.72 | 30 | Pass |

Spectrum Plot of Worst Value

CH 45

802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 3 | 5965 | 114.92 | -95.23 | 93.111 | 19.69 | 30 | Pass |
| 43 | 6165 | 114.19 | -95.23 | 78.705 | 18.96 | 30 | Pass |
| 91 | 6405 | 114.25 | -95.23 | 79.799 | 19.02 | 30 | Pass |
| 99 | 6445 | 112.36 | -95.23 | 51.642 | 17.13 | 30 | Pass |
| 107 | 6485 | 112.75 | -95.23 | 56.494 | 17.52 | 30 | Pass |
| 115 | 6525 | 113.15 | -95.23 | 61.944 | 17.92 | 30 | Pass |
| 123 | 6565 | 112.35 | -95.23 | 51.523 | 17.12 | 30 | Pass |
| 155 | 6725 | 114.27 | -95.23 | 80.168 | 19.04 | 30 | Pass |
| 179 | 6845 | 113.62 | -95.23 | 69.024 | 18.39 | 30 | Pass |
| 187 | 6885 | 114.02 | -95.23 | 75.683 | 18.79 | 30 | Pass |
| 211 | 7005 | 114.48 | -95.23 | 84.14 | 19.25 | 30 | Pass |
| 227 | 7085 | 114.27 | -95.23 | 80.168 | 19.04 | 30 | Pass |

Spectrum Plot of Worst Value

CH 3

802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 7 | 5985 | 116.89 | -95.23 | 146.555 | 21.66 | 30 | Pass |
| 39 | 6145 | 116.08 | -95.23 | 121.619 | 20.85 | 30 | Pass |
| 87 | 6385 | 116.11 | -95.23 | 122.462 | 20.88 | 30 | Pass |
| 103 | 6465 | 115.58 | -95.23 | 108.393 | 20.35 | 30 | Pass |
| 119 | 6545 | 115.42 | -95.23 | 104.472 | 20.19 | 30 | Pass |
| 151 | 6705 | 115.37 | -95.23 | 103.276 | 20.14 | 30 | Pass |
| 183 | 6865 | 117.77 | -95.23 | 179.473 | 22.54 | 30 | Pass |
| 199 | 6945 | 117.15 | -95.23 | 155.597 | 21.92 | 30 | Pass |
| 215 | 7025 | 116.95 | -95.23 | 148.594 | 21.72 | 30 | Pass |

Spectrum Plot of Worst Value

CH 183

## 802.11ax (HE160)

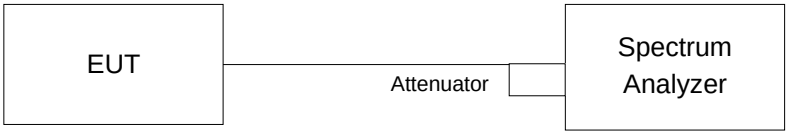
| Chan. | Chan. Freq. (MHz) | Field Strength (dBuV/m) | Correction Factor (dB) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| 15 | 6025 | 119.38 | -95.23 | **260.016** | **24.15** | 30 | Pass |
| 47 | 6185 | 117.95 | -95.23 | 187.068 | 22.72 | 30 | Pass |
| 79 | 6345 | 118.95 | -95.23 | 235.505 | 23.72 | 30 | Pass |
| 111 | 6505 | 118.02 | -95.23 | **190.108** | **22.79** | 30 | Pass |
| 143 | 6665 | 117.65 | -95.23 | 174.582 | 22.42 | 30 | Pass |
| 175 | 6825 | 119.32 | -95.23 | **256.448** | **24.09** | 30 | Pass |
| 207 | 6985 | 119.33 | -95.23 | **257.04** | **24.10** | 30 | Pass |

Spectrum Plot of Worst Value

CH 15

## 4.5 Emission Bandwidth Measurement

### 4.5.1 Test Setup




### 4.5.2 Test Instruments

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

Notes: The test was performed in Oven room.

### 4.5.3 Test Procedure

For 99% Occupied Bandwidth

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

For 26dB Bandwidth

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

### 4.5.4 Test Result

**CDD Mode**

99% Occupied Bandwidth

802.11a

| Chan. | Freq. (MHz) | Occupied Bandwidth (MHz) | | | | |
|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Limit (MHz) |
| 1 | 5955 | 17.40 | 17.40 | 17.31 | 17.40 | 320 |
| 45 | 6175 | 17.22 | 17.31 | 17.40 | 17.22 | 320 |
| 93 | 6415 | 17.40 | 17.40 | 17.40 | 17.31 | 320 |
| 97 | 6435 | 17.40 | 17.40 | 17.31 | 17.40 | 320 |
| 105 | 6475 | 17.48 | 17.40 | 17.40 | 17.40 | 320 |
| 113 | 6515 | 17.40 | 17.40 | 17.40 | 17.40 | 320 |
| 117 | 6535 | 17.48 | 17.40 | 17.40 | 17.48 | 320 |
| 149 | 6695 | 17.34 | 17.34 | 17.34 | 17.28 | 320 |
| 181 | 6855 | 17.34 | 17.40 | 17.34 | 17.28 | 320 |
| 185 | 6875 | 17.28 | 17.34 | 17.34 | 17.28 | 320 |
| 209 | 6995 | 17.40 | 17.40 | 17.34 | 17.34 | 320 |
| 233 | 7115 | 17.34 | 17.34 | 17.40 | 17.34 | 320 |

802.11ax (HE20)

| Chan. | Freq. (MHz) | Occupied Bandwidth (MHz) | | | | |
|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Limit (MHz) |
| 1 | 5955 | 19.26 | 19.14 | 19.20 | 19.26 | 320 |
| 45 | 6175 | 19.32 | 19.26 | 19.26 | 19.20 | 320 |
| 93 | 6415 | 19.32 | 19.20 | 19.26 | 19.32 | 320 |
| 97 | 6435 | 19.14 | 19.26 | 19.20 | 19.20 | 320 |
| 105 | 6475 | 19.20 | 19.20 | 19.26 | 19.20 | 320 |
| 113 | 6515 | 19.26 | 19.26 | 19.32 | 19.32 | 320 |
| 117 | 6535 | 19.32 | 19.20 | 19.26 | 19.20 | 320 |
| 149 | 6695 | 19.26 | 19.20 | 19.32 | 19.26 | 320 |
| 181 | 6855 | 19.32 | 19.26 | 19.26 | 19.26 | 320 |
| 185 | 6875 | 19.26 | 19.26 | 19.20 | 19.32 | 320 |
| 209 | 6995 | 19.32 | 19.26 | 19.26 | 19.20 | 320 |
| 233 | 7115 | 19.32 | 19.26 | 19.20 | 19.26 | 320 |

802.11ax (HE40)

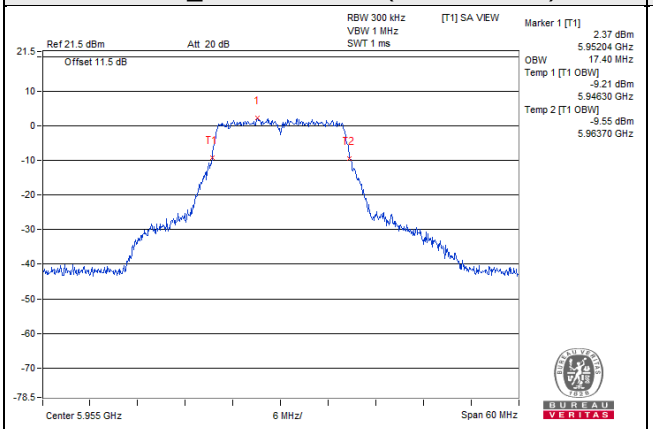
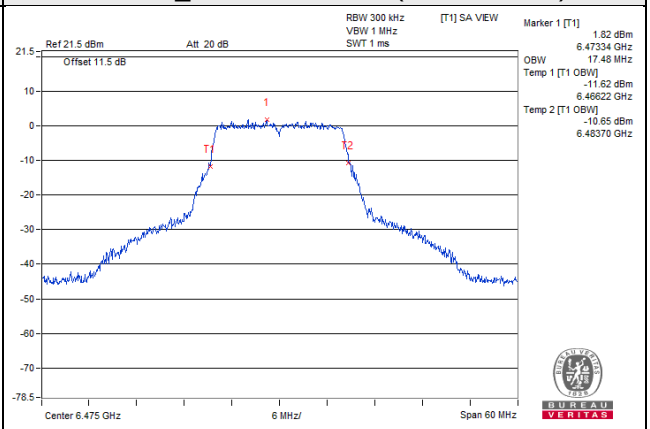
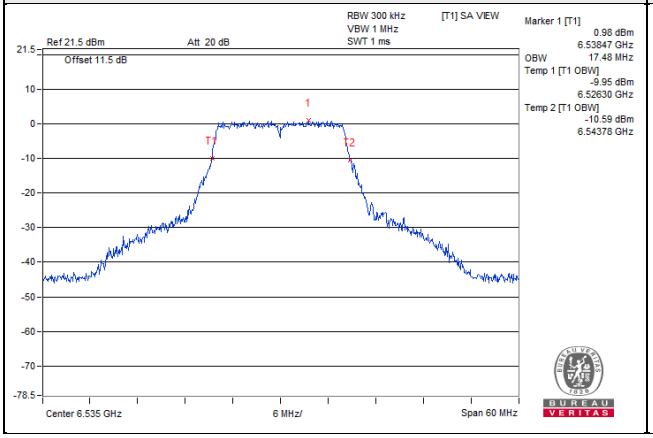
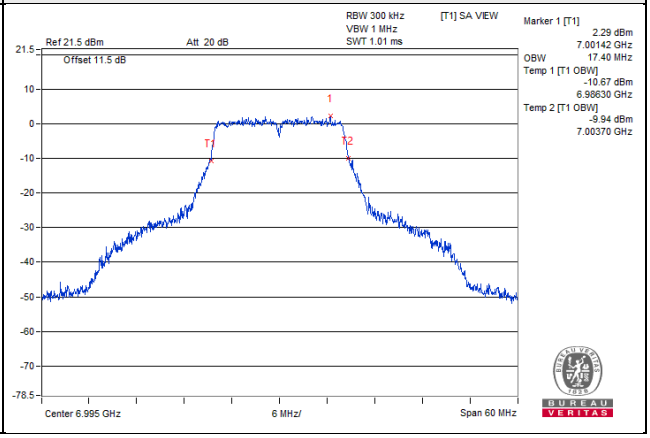
| Chan. | Freq. (MHz) | Occupied Bandwidth (MHz) | | | | |
|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Limit (MHz) |
| 3 | 5965 | 38.16 | 38.16 | 38.16 | 38.16 | 320 |
| 43 | 6165 | 38.28 | 38.16 | 38.16 | 38.16 | 320 |
| 91 | 6405 | 38.16 | 38.04 | 38.16 | 38.16 | 320 |
| 99 | 6445 | 38.16 | 38.28 | 38.16 | 38.28 | 320 |
| 107 | 6485 | 38.16 | 38.16 | 38.28 | 38.16 | 320 |
| 115 | 6525 | 38.16 | 38.16 | 38.16 | 38.16 | 320 |
| 123 | 6565 | 38.16 | 38.16 | 38.28 | 38.40 | 320 |
| 155 | 6725 | 38.16 | 38.16 | 38.28 | 38.28 | 320 |
| 179 | 6845 | 38.16 | 38.28 | 38.28 | 38.28 | 320 |
| 187 | 6885 | 38.16 | 38.28 | 38.28 | 38.28 | 320 |
| 211 | 7005 | 38.28 | 38.28 | 38.28 | 38.16 | 320 |
| 227 | 7085 | 38.16 | 38.16 | 38.16 | 38.28 | 320 |

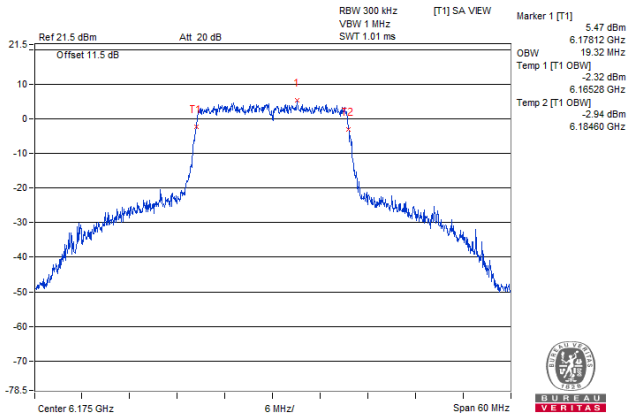
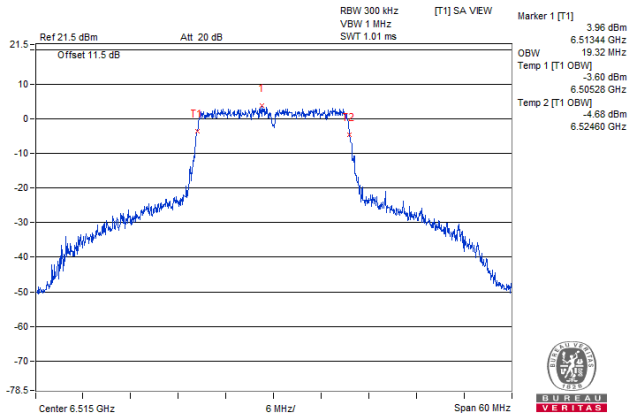
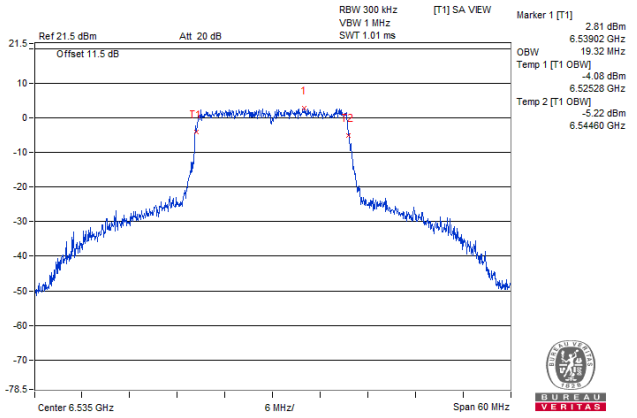
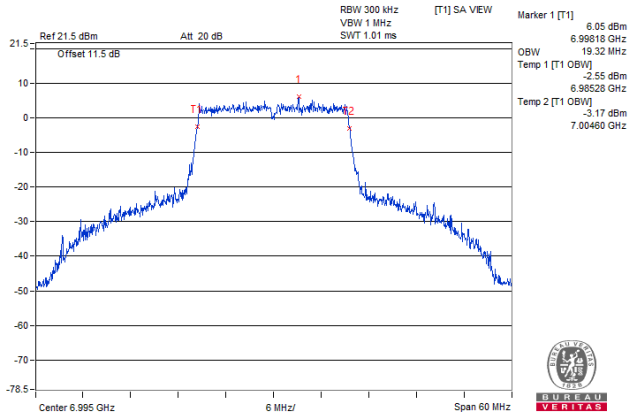
802.11ax (HE80)

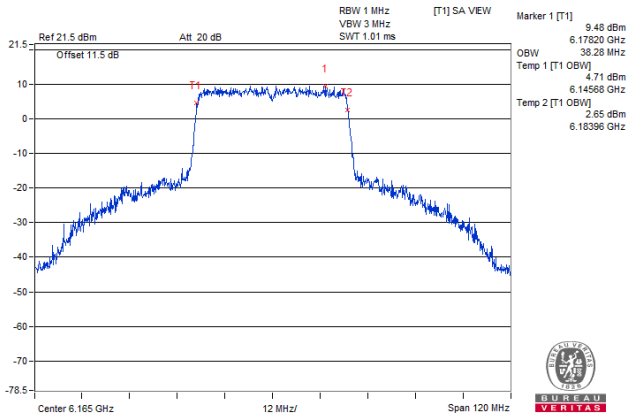
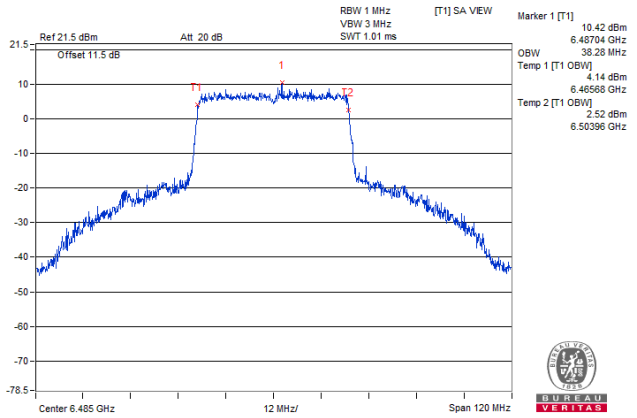
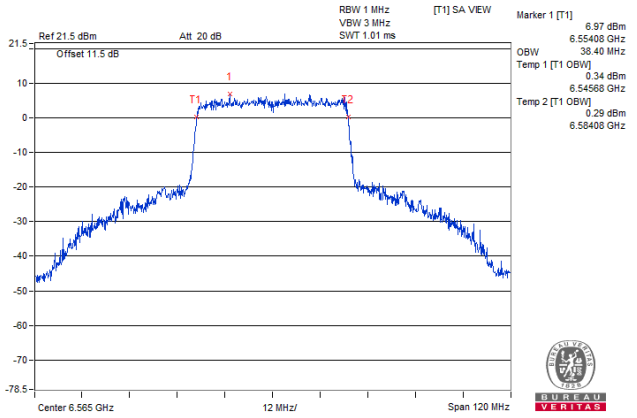
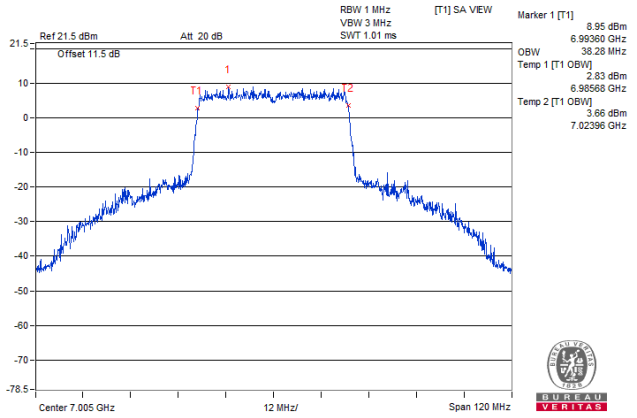
| Chan. | Freq. (MHz) | Occupied Bandwidth (MHz) | | | | |
|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Limit (MHz) |
| 7 | 5985 | 77.52 | 77.28 | 77.76 | 77.52 | 320 |
| 39 | 6145 | 77.52 | 77.52 | 77.76 | 77.52 | 320 |
| 87 | 6385 | 77.28 | 77.52 | 77.76 | 77.28 | 320 |
| 103 | 6465 | 77.28 | 77.76 | 77.52 | 77.76 | 320 |
| 119 | 6545 | 77.52 | 77.52 | 77.52 | 77.52 | 320 |
| 151 | 6705 | 77.52 | 77.52 | 77.52 | 77.52 | 320 |
| 183 | 6865 | 77.76 | 77.76 | 77.28 | 77.76 | 320 |
| 199 | 6945 | 77.76 | 77.76 | 77.76 | 77.76 | 320 |
| 215 | 7025 | 77.76 | 77.28 | 77.76 | 77.76 | 320 |

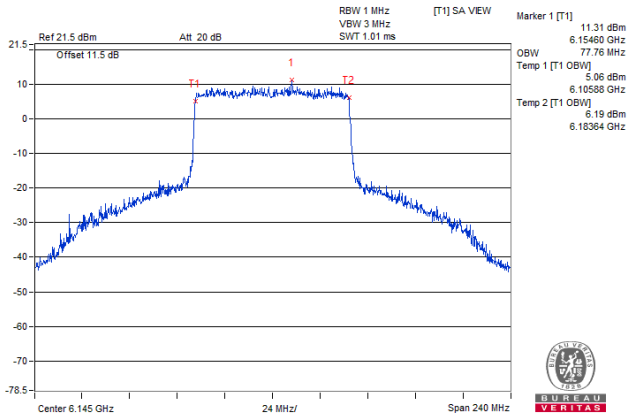
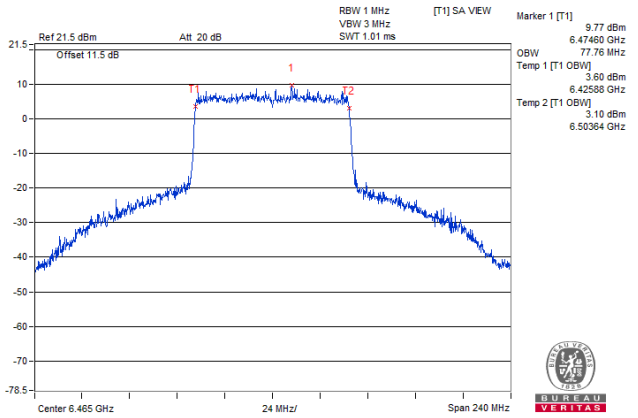
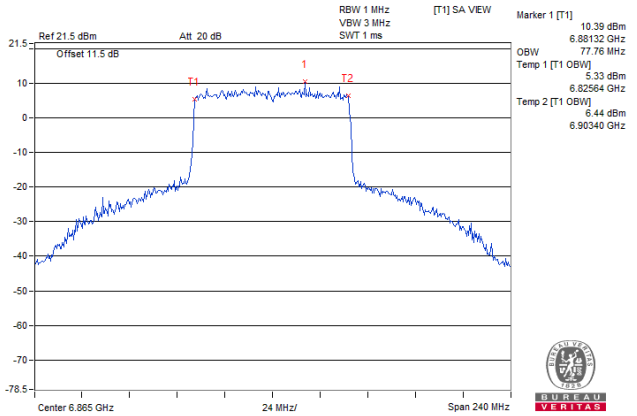
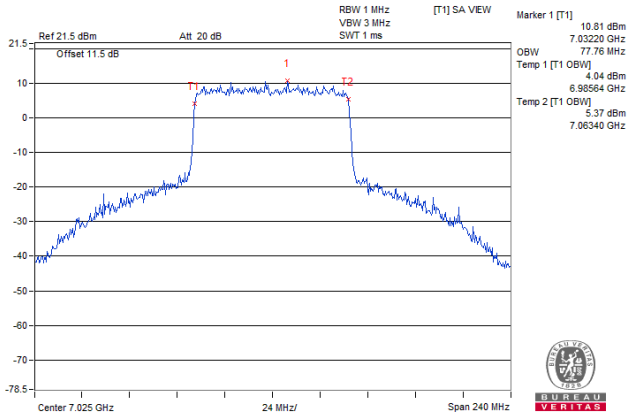
802.11ax (HE160)

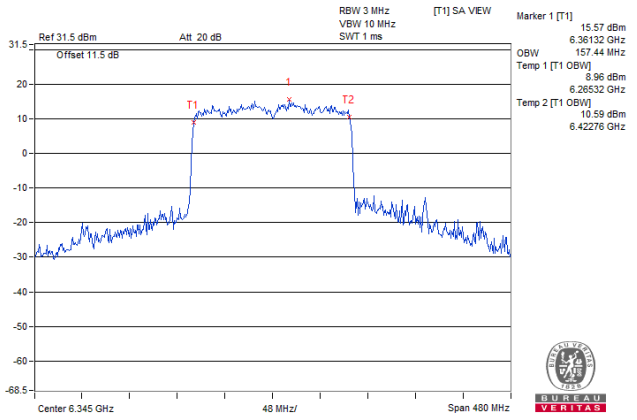
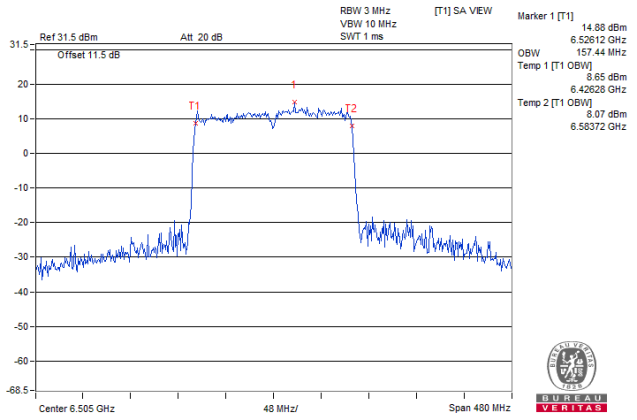
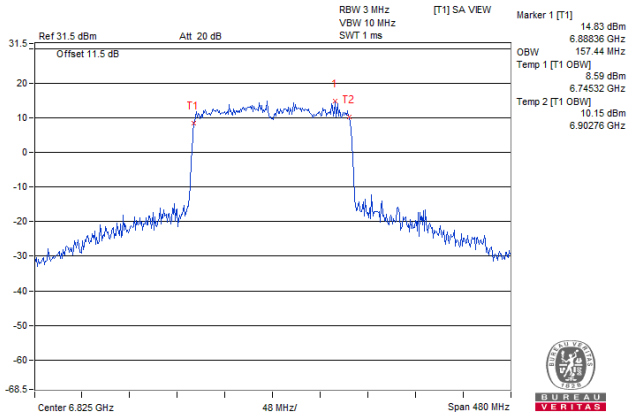
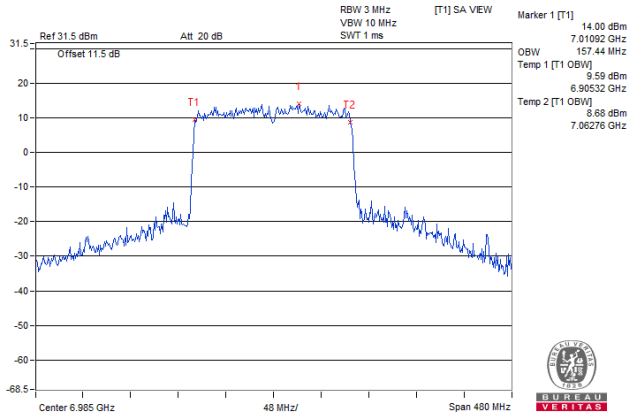
| Chan. | Freq. (MHz) | Occupied Bandwidth (MHz) | | | | |
|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | Limit (MHz) |
| 15 | 6025 | 156.96 | 156.96 | 156.96 | 156.96 | 320 |
| 47 | 6185 | 156.96 | 156.48 | 157.44 | 157.44 | 320 |
| 79 | 6345 | 156.96 | 157.44 | 157.44 | 156.48 | 320 |
| 111 | 6505 | 157.44 | 157.44 | 157.44 | 157.44 | 320 |
| 143 | 6665 | 156.48 | 156.48 | 156.48 | 156.48 | 320 |
| 175 | 6825 | 157.44 | 157.44 | 157.44 | 157.44 | 320 |
| 207 | 6985 | 157.44 | 157.44 | 157.44 | 156.48 | 320 |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11a_Chain 0 / CH 1 (U-NII-5 Band) | 802.11a_Chain 0 / CH105 (U-NII-6 Band) |
|  |  |
| 802.11a_Chain 0 / CH 117 (U-NII-7 Band) | 802.11a_Chain 0 / CH 209 (U-NII-8 Band) |
|  |  |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE20)_Chain 0 / CH 45 (U-NII-5 Band) | 802.11ax (HE20)_Chain 2 / CH113 (U-NII-6 Band) |
|   |   |
| 802.11ax (HE20)_Chain 0 / CH 117 (U-NII-7 Band) | 802.11ax (HE20)_Chain 0 / CH 209 (U-NII-8 Band) |
|   |   |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE40)_Chain 0 / CH 43 (U-NII-5 Band) | 802.11ax (HE40)_Chain 2 / CH 107 (U-NII-6 Band) |
|   |   |
| 802.11ax (HE40)_Chain 3 / CH 123 (U-NII-7 Band) | 802.11ax (HE40)_Chain 1 / CH 211 (U-NII-8 Band) |
|   |   |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE80)_Chain 2 / CH 39 (U-NII-5 Band) | 802.11ax (HE80)_Chain 3 / CH 103 (U-NII-6 Band) |
|  |  |
| 802.11ax (HE80)_Chain 3 / CH183 (U-NII-7 Band) | 802.11ax (HE80)_Chain 2 / CH 215 (U-NII-8 Band) |
|  |  |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE160)_Chain 1 / CH 79 (U-NII-5 Band) | 802.11ax (HE160)_Chain 2 / CH 111 (U-NII-6 Band) |
|   |   |
| 802.11ax (HE160)_Chain 0 / CH175 (U-NII-7 Band) | 802.11ax (HE160)_Chain 2 / CH 207 (U-NII-8 Band) |
|   |   |

## CDD Mode

### 26dB Bandwidth

#### 802.11a

| Chan. | Freq. (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 1 | 5955 | 23.74 | 22.84 | 23.52 | 23.74 |
| 45 | 6175 | 23.59 | 23.13 | 22.73 | 23.01 |
| 93 | 6415 | 22.63 | 23.15 | 23.01 | 23.56 |
| 97 | 6435 | 23.14 | 23.69 | 23.07 | 22.85 |
| 105 | 6475 | 23.66 | 23.71 | 23.70 | 23.70 |
| 113 | 6515 | 22.87 | 23.12 | 23.73 | 23.71 |
| 117 | 6535 | 23.13 | 24.29 | 23.69 | 23.16 |
| 149 | 6695 | 23.58 | 24.25 | 23.65 | 23.68 |
| 181 | 6855 | 23.24 | 22.88 | 22.84 | 23.82 |
| 185 | 6875 | 22.76 | 23.52 | 23.54 | 23.62 |
| 209 | 6995 | 23.97 | 25.54 | 23.59 | 24.55 |
| 233 | 7115 | 23.96 | 23.69 | 23.56 | 23.54 |

#### 802.11ax (HE20)

| Chan. | Freq. (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 1 | 5955 | 28.76 | 23.81 | 26.45 | 25.25 |
| 45 | 6175 | 26.15 | 28.83 | 26.02 | 25.69 |
| 93 | 6415 | 29.53 | 26.61 | 28.64 | 28.33 |
| 97 | 6435 | 26.44 | 28.92 | 26.43 | 29.36 |
| 105 | 6475 | 25.28 | 28.04 | 25.54 | 25.34 |
| 113 | 6515 | 26.75 | 29.16 | 27.85 | 22.33 |
| 117 | 6535 | 26.67 | 22.32 | 29.74 | 28.20 |
| 149 | 6695 | 28.72 | 27.73 | 26.07 | 25.73 |
| 181 | 6855 | 32.27 | 29.58 | 26.62 | 23.00 |
| 185 | 6875 | 29.42 | 29.05 | 29.63 | 24.83 |
| 209 | 6995 | 28.27 | 29.45 | 29.23 | 25.14 |
| 233 | 7115 | 22.33 | 22.95 | 24.12 | 22.86 |

802.11ax (HE40)

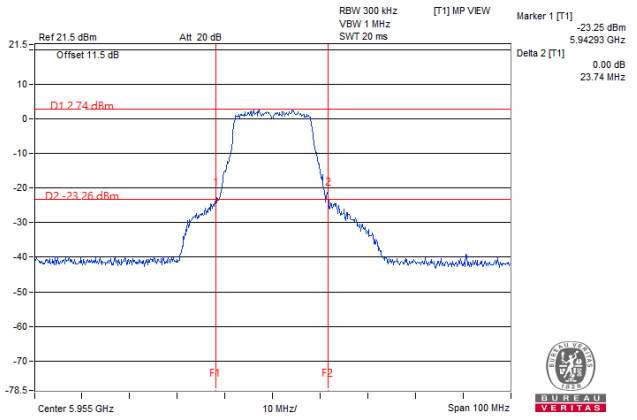
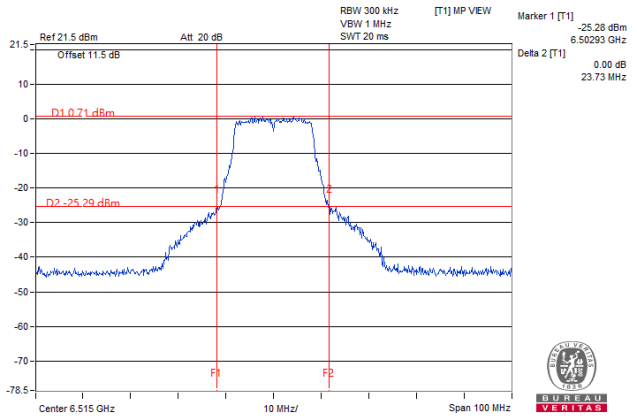
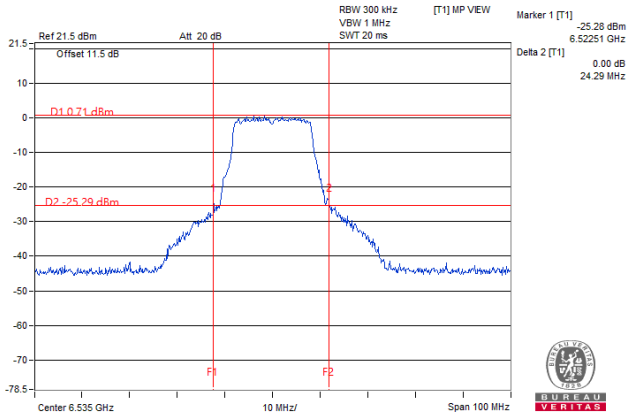
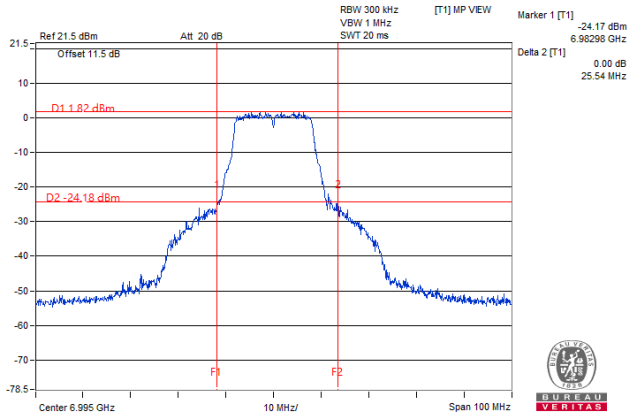
| Chan. | Freq. (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 3 | 5965 | 49.95 | 48.28 | 49.52 | 48.47 |
| 43 | 6165 | 44.38 | 50.09 | 42.98 | 46.84 |
| 91 | 6405 | 46.48 | 43.97 | 49.00 | 43.40 |
| 99 | 6445 | 44.34 | 45.91 | 49.10 | 49.30 |
| 107 | 6485 | 49.43 | 56.07 | 42.38 | 54.06 |
| 115 | 6525 | 47.33 | 50.89 | 43.93 | 52.28 |
| 123 | 6565 | 55.22 | 49.34 | 43.34 | 50.63 |
| 155 | 6725 | 46.13 | 46.68 | 43.89 | 46.16 |
| 179 | 6845 | 44.78 | 46.45 | 44.96 | 46.54 |
| 187 | 6885 | 45.27 | 49.05 | 46.33 | 47.72 |
| 211 | 7005 | 46.66 | 47.21 | 48.12 | 48.94 |
| 227 | 7085 | 48.92 | 50.76 | 47.77 | 54.47 |

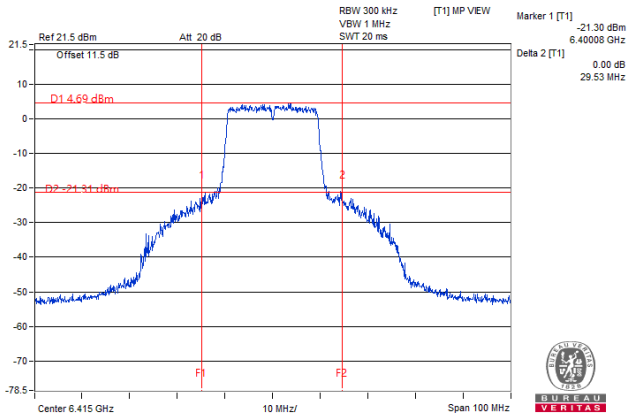
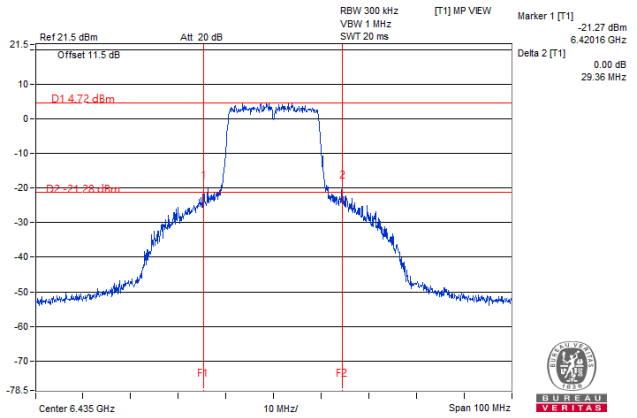
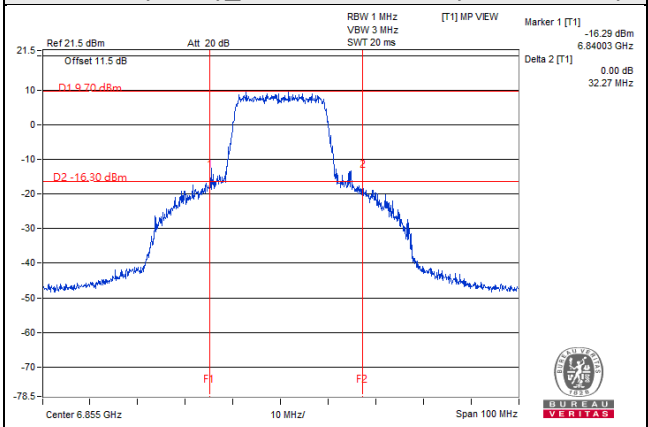
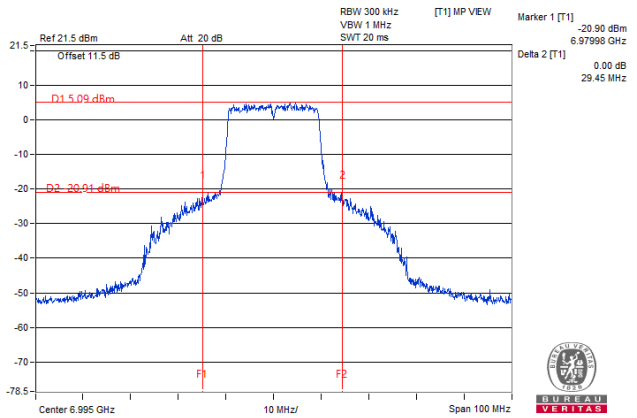
802.11ax (HE80)

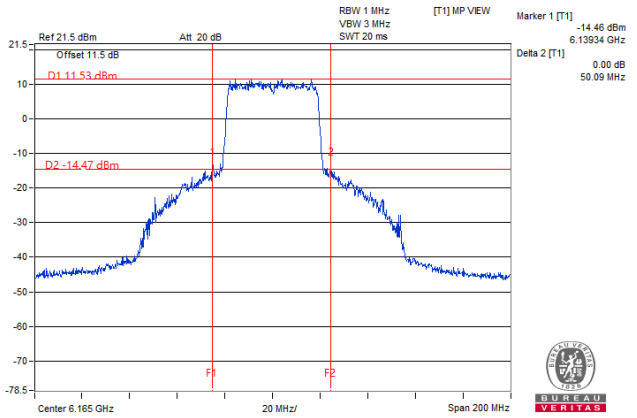
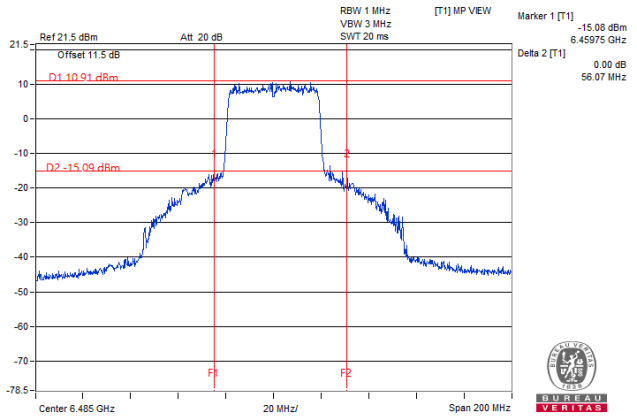
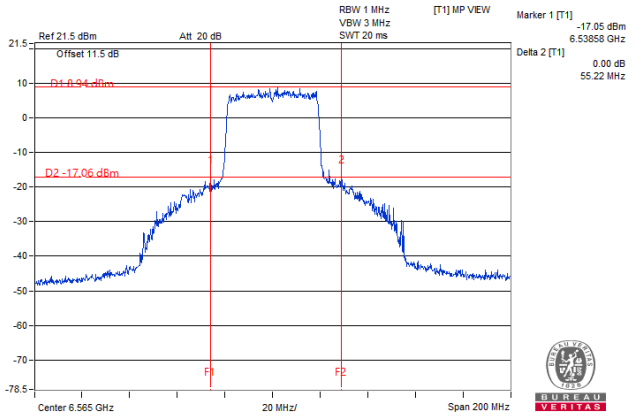
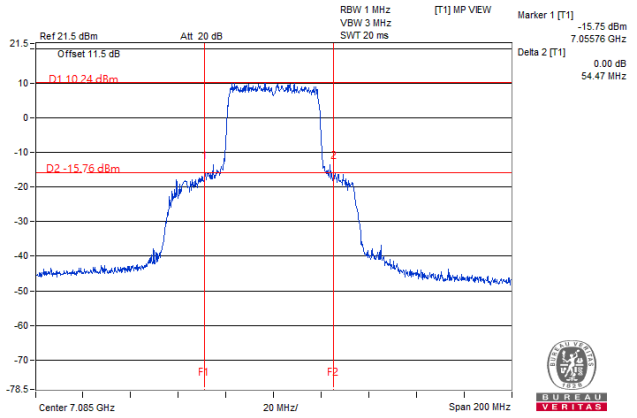
| Chan. | Freq. (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 7 | 5985 | 89.28 | 92.74 | 86.58 | 86.83 |
| 39 | 6145 | 84.53 | 87.28 | 84.81 | 82.93 |
| 87 | 6385 | 84.86 | 83.45 | 83.52 | 84.21 |
| 103 | 6465 | 85.53 | 84.10 | 83.05 | 83.19 |
| 119 | 6545 | 85.13 | 89.63 | 85.04 | 83.50 |
| 151 | 6705 | 85.72 | 84.59 | 88.91 | 84.06 |
| 183 | 6865 | 84.59 | 84.35 | 83.84 | 88.59 |
| 199 | 6945 | 89.91 | 85.48 | 84.32 | 84.92 |
| 215 | 7025 | 85.16 | 84.45 | 84.99 | 89.70 |

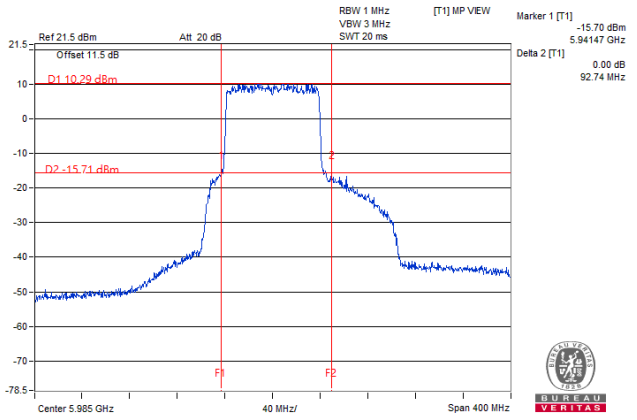
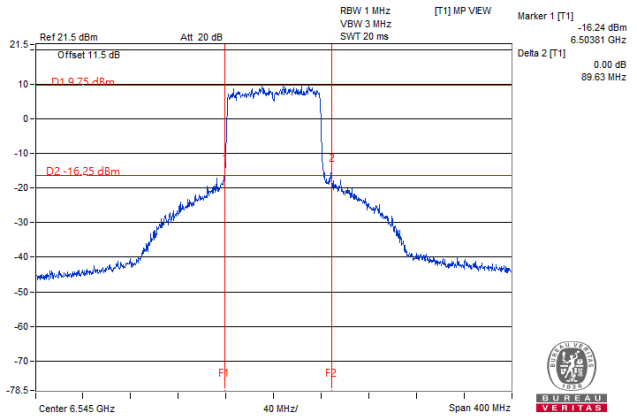
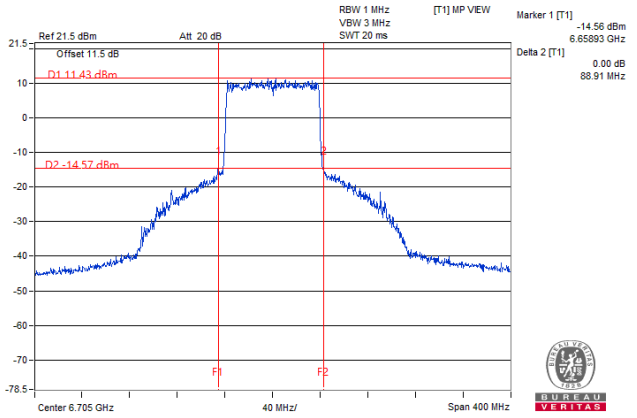
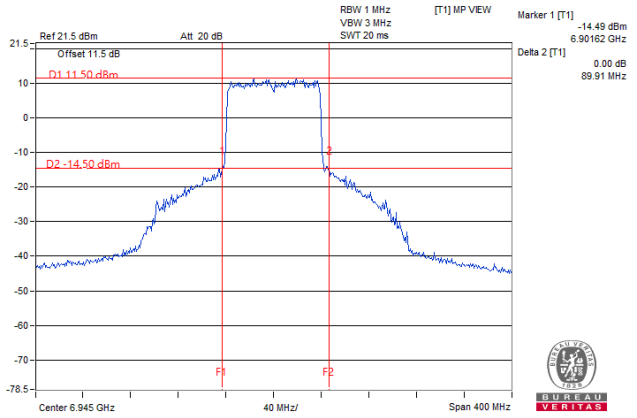
802.11ax (HE160)

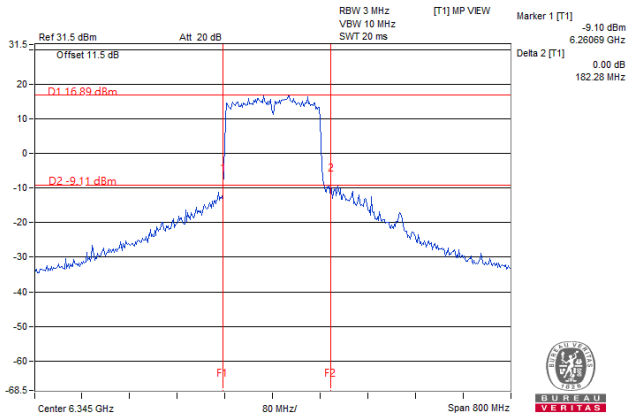
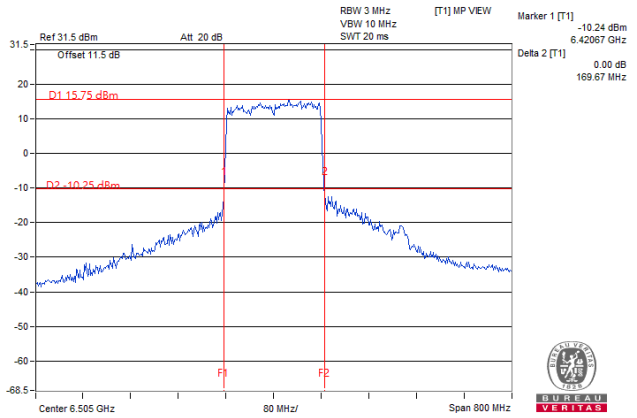
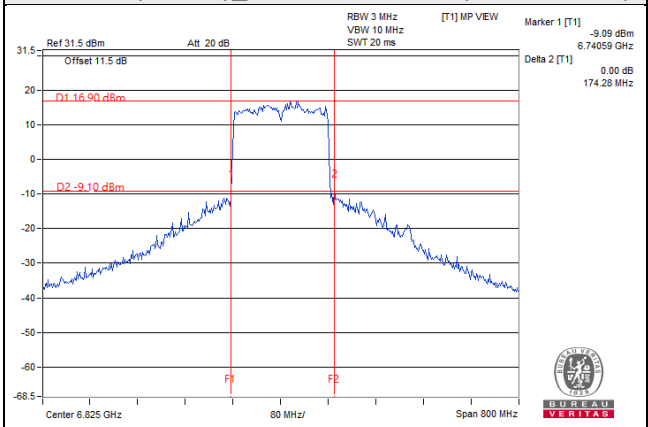
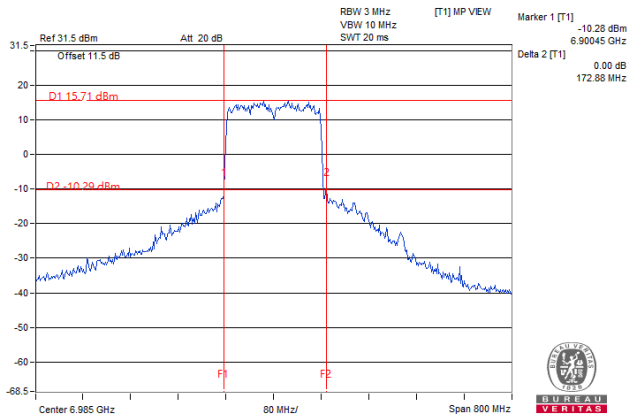
| Chan. | Freq. (MHz) | 26dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 15 | 6025 | 167.67 | 168.64 | 168.17 | 167.94 |
| 47 | 6185 | 169.13 | 174.11 | 177.46 | 168.42 |
| 79 | 6345 | 171.23 | 182.28 | 177.56 | 169.33 |
| 111 | 6505 | 168.88 | 169.08 | 169.07 | 169.67 |
| 143 | 6665 | 168.89 | 169.22 | 169.01 | 168.85 |
| 175 | 6825 | 168.60 | 170.39 | 174.28 | 168.65 |
| 207 | 6985 | 172.88 | 169.34 | 168.54 | 169.13 |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11a_Chain 0 / CH 1 (U-NII-5 Band) | 802.11a_Chain 2 / CH 113 (U-NII-6 Band) |
|   |   |
| 802.11a_Chain 1 / CH 117 (U-NII-7 Band) | 802.11a_Chain 1 / CH 209 (U-NII-8 Band) |
|   |   |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE20)_Chain 0 / CH 93 (U-NII-5 Band) | 802.11ax (HE20)_Chain 3 / CH 97 (U-NII-6 Band) |
|   |   |
| 802.11ax (HE20)_Chain 0 / CH 181 (U-NII-7 Band) | 802.11ax (HE20)_Chain 1 / CH 209 (U-NII-8 Band) |
|   |   |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE40)_Chain 1 / CH 43 (U-NII-5 Band) | 802.11ax (HE40)_Chain 1 / CH 107 (U-NII-6 Band) |
|   |   |
| 802.11ax (HE40)_Chain 0 / CH 123 (U-NII-7 Band) | 802.11ax (HE40)_Chain 3 / CH 227 (U-NII-8 Band) |
|   |   |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE80)_Chain 1 / CH 7 (U-NII-5 Band) | 802.11ax (HE80)_Chain 1 / CH 119 (U-NII-6 Band) |
|   |   |
| 802.11ax (HE80)_Chain 2 / CH 151 (U-NII-7 Band) | 802.11ax (HE80)_Chain 0 / CH 199 (U-NII-8 Band) |
|   |   |

| Spectrum Plot of Max. Value | |
|---|---|
| 802.11ax (HE160)_Chain 1 / CH 79 (U-NII-5 Band) | 802.11ax (HE160)_Chain 3 / CH 111 (U-NII-6 Band) |
|   |   |
| 802.11ax (HE160)_Chain 2 / CH 175 (U-NII-7 Band) | 802.11ax (HE160)_Chain 0 / CH 207 (U-NII-8 Band) |
|   |   |