

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBCUG-WTW-P23030371-3
FCC ID: B32V660P
Product: Point of Sale Terminal
Brand: Verifone
Model No.: V660p-2
Received Date: 2023/3/13
Test Date: 2023/3/24 ~ 2023/4/17
Issued Date: 2023/5/11

Applicant: Verifone, Inc.

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

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FCC Registration / (1) 788550 / TW0003

Designation Number: (2) 427177 / TW0011

Approved by: _____

Jeremy Lin

Date: _____

2023/5/11

Jeremy Lin / Project Engineer

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Prepared by : Vera Huang / Specialist



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Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|------------------|-------------|
| RFBCUG-WTW-P23030371-3 | Original Release | 2023/5/11 |

1 Certificate

Product: Point of Sale Terminal
Brand: Verifone
Test Model: V660p-2
Sample Status: Engineering sample
Applicant: Verifone, Inc.
Test Date: 2023/3/24 ~ 2023/4/17
Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedure New Rules v02r01

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

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) | | | |
|--|--------------------------------|--------|--|
| Clause | Test Item | Result | Remark |
| 15.407(a)(2) | 26 dB Bandwidth | Pass | For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth. |
| 15.407(a)(1) | RF Output Power | Pass | Meet the requirement of limit. |
| 15.407(a)(1) | Power Spectral Density | Pass | Meet the requirement of limit. |
| 15.407(e) | 6 dB Bandwidth | Pass | Meet the requirement of limit. (U-NII-3 Band only) |
| --- | Occupied Bandwidth | - | Reference only. |
| 15.407(g) | Frequency Stability | Pass | Meet the requirement of limit. |
| 15.407(b)(9) | AC Power Conducted Emissions | Pass | Minimum passing margin is -5.09 dB at 0.54600 MHz |
| 15.407(b)(9) | Unwanted Emissions below 1 GHz | Pass | Minimum passing margin is -8.2 dB at 211.17 MHz |
| 15.407(b) (1/10) | Unwanted Emissions above 1 GHz | Pass | Minimum passing margin is -2.1 dB at 5725.00 MHz |
| 15.203 | Antenna Requirement | Pass | No antenna connector is used. |

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

2.1 Measurement Uncertainty

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

| Measurement | Specification | Expanded Uncertainty (k=2) (±) |
|--------------------------------|-----------------|-----------------------------------|
| Occupied Bandwidth | - | 491.896 Hz |
| AC Power Conducted Emissions | 9 kHz ~ 30 MHz | 2.99 dB |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz | 2.44 dB |
| | 30 MHz ~ 1 GHz | 2.02 dB |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz | 1.01 dB |
| | 18 GHz ~ 40 GHz | 1.15 dB |

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

| | |
|-----------------------|---|
| Product | Point of Sale Terminal |
| Brand | Verifone |
| Test Model | V660p-2 |
| Status of EUT | Engineering sample |
| Power Supply Rating | 5 Vdc from adapter |
| Modulation Type | CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Modulation Technology | OFDM |
| Transfer Rate | 802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.3 Mbps |
| Operating Frequency | 5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5720 MHz, 5745 ~ 5825MHz |
| Number of Channel | 5180 ~ 5240 MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260 ~ 5320 MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500 ~ 5720 MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 12 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 3 5745 ~ 5825 MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 |
| Output Power | 5.18 GHz ~ 5.24 GHz : 60.674 mW (17.83 dBm) 5.26 GHz ~ 5.32 GHz : 61.518 mW (17.89 dBm) 5.5 GHz ~ 5.72 GHz : 55.847 mW (17.47 dBm) 5.745 GHz ~ 5.825 GHz : 42.462 mW (16.28 dBm) |
| EUT Category | Client device |

Note:

1. The accessory devices of EUT, please refer to external photo.
2. There is no simultaneous transmission configuration in this device.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Antenna Gain (dBi) | | | | Antenna Type | Connector Type |
|--------------------|--------------|---------------|---------------|--------------|----------------|
| 5.15~5.25GHz | 5.25~5.35GHz | 5.47~5.725GHz | 5.725~5.85GHz | | |
| 2.2 | 2.7 | 2.6 | 1.9 | PIFA | N/A |

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

2. The EUT provides 1 completed transmitter and 1 receiver.

| 5 GHz Band | | |
|------------------|-----------------------|-----|
| Modulation Mode | TX & RX Configuration | |
| 802.11a | 1TX | 1RX |
| 802.11n (HT20) | 1TX | 1RX |
| 802.11n (HT40) | 1TX | 1RX |
| 802.11ac (VHT20) | 1TX | 1RX |
| 802.11ac (VHT40) | 1TX | 1RX |
| 802.11ac (VHT80) | 1TX | 1RX |

Note:

1. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz), therefore the investigated worst case to representative mode in test report.

3.3 Channel List

For 5180 ~ 5240 MHz

4 channels are provided for 802.11a, 802.11n (HT20) and 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36 | 5180 MHz | 44 | 5220 MHz |
| 40 | 5200 MHz | 48 | 5240 MHz |

2 channels are provided for 802.11n (HT40) and 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38 | 5190 MHz | 46 | 5230 MHz |

1 channels are provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 42 | 5210 MHz |

For 5260 ~ 5320 MHz

4 channels are provided for 802.11a, 802.11n (HT20) and 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 52 | 5260 MHz | 60 | 5300 MHz |
| 56 | 5280 MHz | 64 | 5320 MHz |

2 channels are provided for 802.11n (HT40) and 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 54 | 5270 MHz | 62 | 5310 MHz |

1 channels are provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 58 | 5290 MHz |

For 5500 ~ 5720 MHz

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

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

6 channels are provided for 802.11n (HT40) and 802.11ac (VHT40):

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

3 channels are provided for 802.11ac (VHT80):

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

For 5745 ~ 5825 MHz

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

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

2 channels are provided for 802.11n (HT40) and 802.11ac (VHT40):

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

1 channels are provided for 802.11ac (VHT80):

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

3.4 Test Mode Applicability and Tested Channel Detail

| | |
|-------------|---|
| Pre-Scan: | 1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. |
| Worst Case: | 1. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis |

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

| Test Item | Mode | Tested Channel | Modulation | Data Rate Parameter |
|---|------------------|---|---------------|---------------------|
| 26 dB Bandwidth | 802.11a | 52, 60, 64, 100, 116, 140, 144 | BPSK | 6Mb/s |
| | 802.11ac (VHT20) | 52, 60, 64, 100, 116, 140, 144 | BPSK | MCS0 |
| | 802.11ac (VHT40) | 54, 62, 102, 110, 134, 142 | BPSK | MCS0 |
| | 802.11ac (VHT80) | 58, 106, 122, 138 | BPSK | MCS0 |
| RF Output Power | 802.11a | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK | 6Mb/s |
| | 802.11n (HT20) | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK | MCS0 |
| | 802.11n (HT40) | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159 | BPSK | MCS0 |
| | 802.11ac (VHT20) | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK | MCS0 |
| | 802.11ac (VHT40) | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159 | BPSK | MCS0 |
| | 802.11ac (VHT80) | 42, 58, 106, 122, 138, 155 | BPSK | MCS0 |
| 6 dB Bandwidth | 802.11a | 144, 149, 157, 165 | BPSK | 6Mb/s |
| | 802.11ac (VHT20) | 144, 149, 157, 165 | BPSK | MCS0 |
| | 802.11ac (VHT40) | 142, 151, 159 | BPSK | MCS0 |
| | 802.11ac (VHT80) | 138, 155 | BPSK | MCS0 |
| Occupied Bandwidth / Power Spectral Density | 802.11a | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK | 6Mb/s |
| | 802.11ac (VHT20) | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK | MCS0 |
| | 802.11ac (VHT40) | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159 | BPSK | MCS0 |
| | 802.11ac (VHT80) | 42, 58, 106, 122, 138, 155 | BPSK | MCS0 |
| Frequency Stability | 802.11a | 36 | un-modulation | - |
| AC Power Conducted Emissions | 802.11a | 52 | BPSK | 6Mb/s |
| Unwanted Emissions below 1 GHz | 802.11a | 52 | BPSK | 6Mb/s |
| Unwanted Emissions above 1 GHz | 802.11a | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK | 6Mb/s |
| | 802.11ac (VHT20) | 36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165 | BPSK | MCS0 |
| | 802.11ac (VHT40) | 38, 46, 54, 62, 102, 110, 134, 142, 151, 159 | BPSK | MCS0 |
| | 802.11ac (VHT80) | 42, 58, 106, 122, 138, 155 | BPSK | MCS0 |

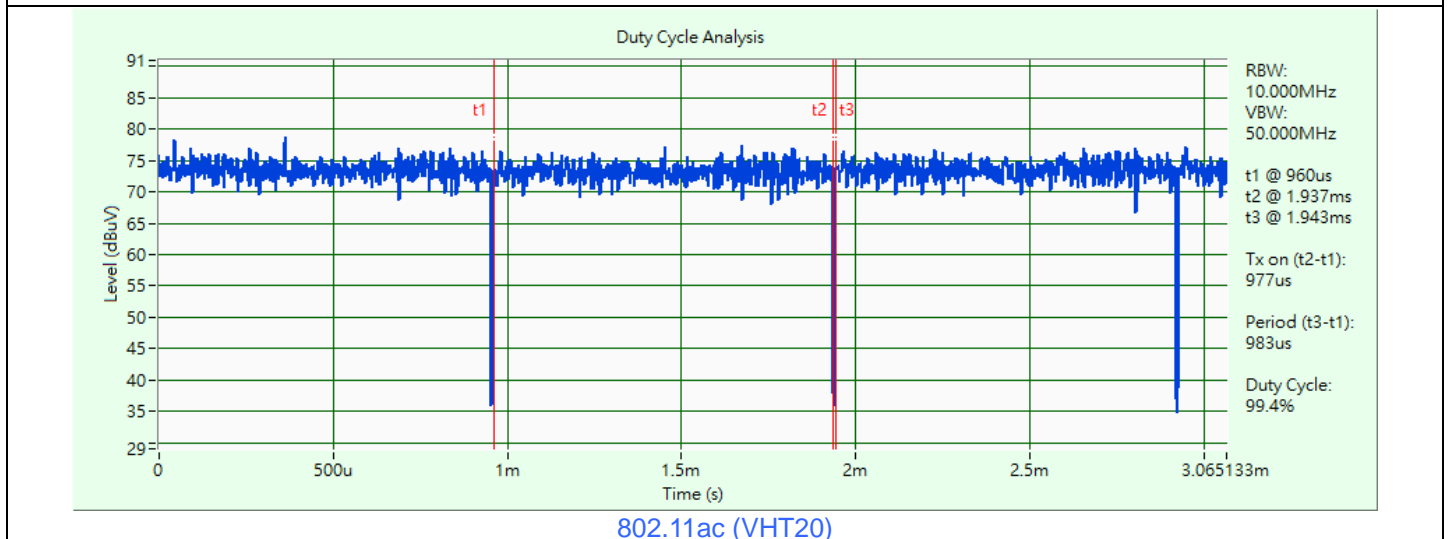
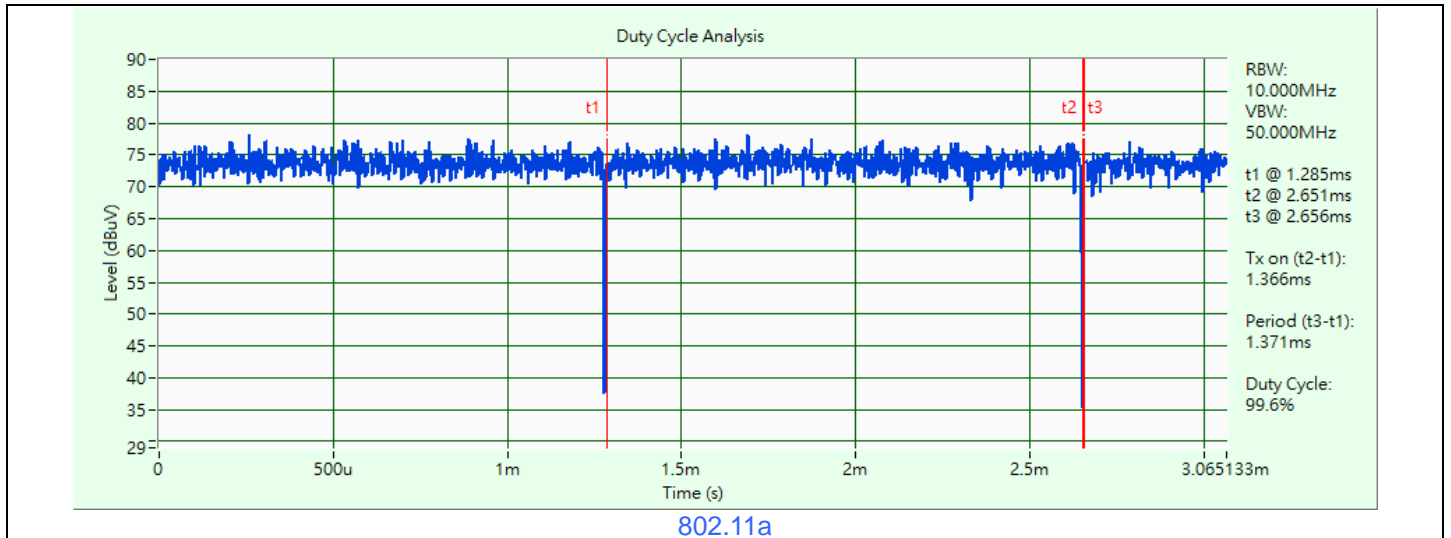
3.5 Duty Cycle of Test Signal

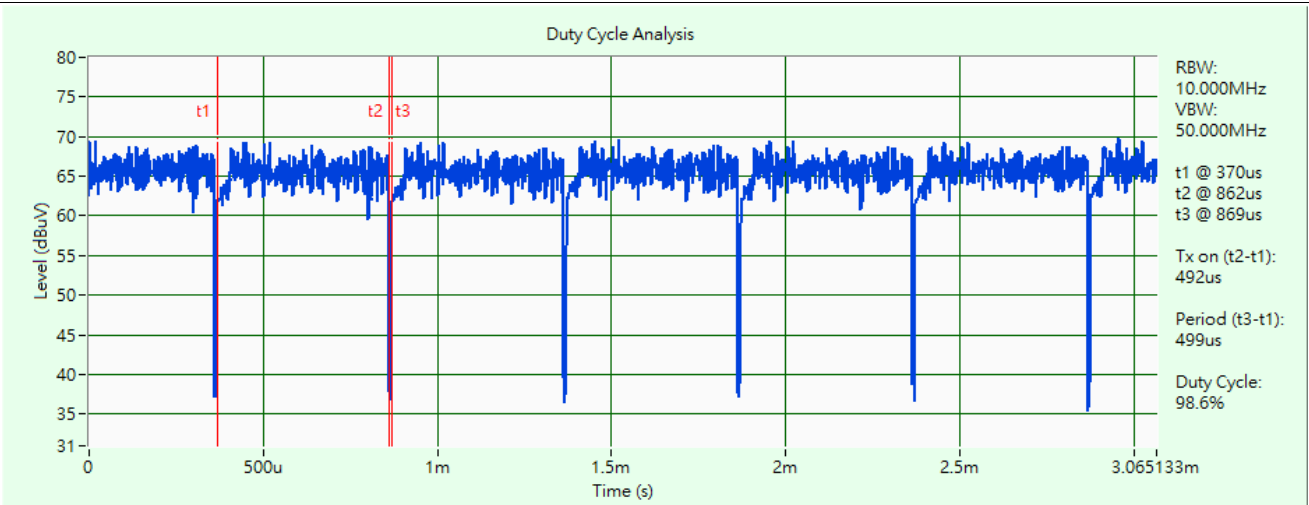
802.11a: Duty cycle = 1.366 ms / 1.371 ms x 100% = 99.6%

802.11ac (VHT20): Duty cycle = 0.977 ms / 0.983 ms x 100% = 99.4%

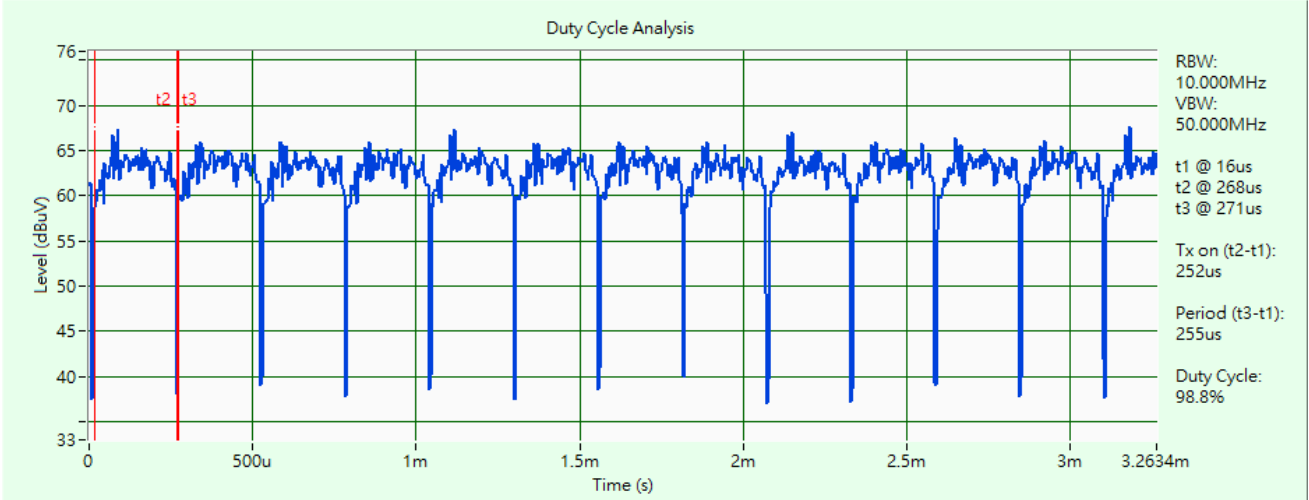
802.11ac (VHT40): Duty cycle = 0.492 ms / 0.499 ms x 100% = 98.6%

802.11ac (VHT80): Duty cycle = 0.252 ms / 0.255 ms x 100% = 98.8%





802.11ac (VHT40)

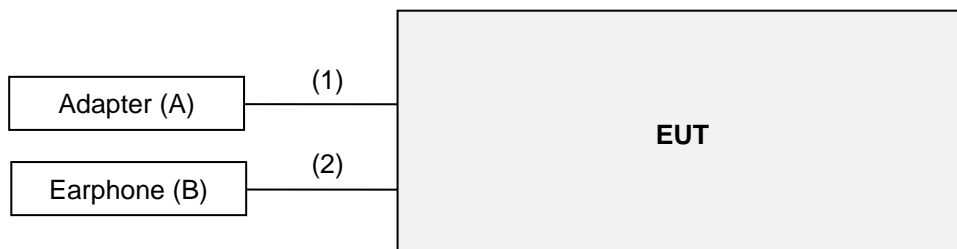


802.11ac (VHT80)

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT Version 3.0.276.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|----------|----------|---------------|------------|--------|-----------------------|
| A | Adapter | Verifone | S011HU0520220 | N/A | N/A | Supplied by applicant |
| B | Earphone | Samsung | EHS-64 | N/A | N/A | Provided by Lab |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|---------------------|------|------------|--------------------|--------------|-----------------------|
| 1 | USB to Type C Cable | 1 | 1.5 | Yes | 0 | Supplied by applicant |
| 2 | Audio Cable | 1 | 1 | No | 0 | Provided by Lab |

4 Test Instruments

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

4.1 26 dB Bandwidth

| 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 | 100980 | 2022/4/20 | 2023/4/19 |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/4/17

4.2 RF Output Power

| 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 | 100980 | 2022/4/20 | 2023/4/19 |
| USB Wideband Power Sensor KEYSIGHT | U2021XA | MY55050005/MY55190004/ MY55190007/MY55210005 | 2022/7/13 | 2023/7/12 |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/4/17

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|--|----------------------------------|------------|--------------------|---------------------|
| AC power supply JIN YIH Technology | 6905S | 1720444 | N/A | N/A |
| Digital Multimeter Fluke | 87-III | 70360742 | 2022/6/23 | 2023/6/22 |
| Software BV | ADT_RF Test Software V6.6.5.4 | N/A | N/A | N/A |
| Spectrum Analyzer R&S | FSV40 | 100980 | 2022/4/20 | 2023/4/19 |
| Temperature & Humidity Chamber TERCHY | HRM-120RF | 931022 | 2022/12/27 | 2023/12/26 |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/4/17

4.7 AC Power Conducted Emissions

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|--------------------------------|-------------------------|----------------|--------------------|---------------------|
| LISN R&S | ESH3-Z5 | 100116 | 2023/2/15 | 2024/2/14 |
| | | 100311 | 2022/9/12 | 2023/9/11 |
| RF Coaxial Cable WOKEN | 5D-FB | Cable-cond1-01 | 2023/1/7 | 2024/1/6 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | N/A | N/A | N/A |
| Test Receiver Rohde&Schwarz | ESCI | 100613 | 2022/12/5 | 2023/12/4 |
| V-LISN Schwarzbeck | NNBL 8226-2 | 8226-142 | 2022/8/31 | 2023/8/30 |

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2023/3/30

4.8 Unwanted Emissions below 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|--------------------------------------|--------------------------|--|--------------------|---------------------|
| Antenna Tower Max-Full | UNAT_5+ | PAD-CH6-01 | N/A | N/A |
| Antenna Tower Controller Max-Full | MF-7802 | N/A | N/A | N/A |
| Bi_Log Antenna Schwarzbeck | VULB9168 | 9168-616 | 2022/10/26 | 2023/10/25 |
| Loop Antenna EMCI | EM-6879 | 269 | 2022/9/19 | 2023/9/18 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | 2022/7/27 | 2023/7/26 |
| Pre-amplifier EMCI | EMC001340 | 980201 | 2022/9/23 | 2023/9/22 |
| Preamplifier Agilent | 310N | 187226 | 2022/6/14 | 2023/6/13 |
| RF Coaxial Cable EMCI | 5D-NM-BM | 140903+140902 | 2023/1/7 | 2024/1/6 |
| RF Coaxial Cable ETS-Lindgren | EMC104-SM-SM-10000 | Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4 | 2022/6/14 | 2023/6/13 |
| | RFC-SMS-100-SMS-24-IN | Cable-CH1-02(RFC-SMS-100-SMS-24) | 2022/6/14 | 2023/6/13 |
| Software BV ADT | ADT_Radiated_V7.6.15.9.5 | N/A | N/A | N/A |
| Test Receiver Agilent | N9038A | MY52260177 | 2022/9/19 | 2023/9/18 |
| Turn Table Max-Full | TT-1510 | N/A | N/A | N/A |
| Turn Table Controller Max-Full | MF-7802 | N/A | N/A | N/A |

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2023/3/28

4.9 Unwanted Emissions above 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---------------------------------------|-----------------------------------|--|--------------------|---------------------|
| Antenna Tower Max-Full | UNAT_5+ | PAD-CH6-01 | N/A | N/A |
| Antenna Tower Controller Max-Full | MF-7802 | N/A | N/A | N/A |
| Boresight antenna tower fixture BV | BAF-02 | 8 | N/A | N/A |
| Horn Antenna ETS-Lindgren | 3117 | 00143293 | 2022/11/13 | 2023/11/12 |
| Horn Antenna Schwarzbeck | BBHA 9170 | BBHA9170241 | 2022/10/20 | 2023/10/19 |
| Pre-Amplifier EMCI | EMC 184045 | 980116 | 2022/10/1 | 2023/9/30 |
| Preamplifier Agilent | 83017A | MY39501373 | 2022/6/14 | 2023/6/13 |
| RF Coaxial Cable ETS-Lindgren | EMC104-SM-SM-10000 | Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-4 | 2022/6/14 | 2023/6/13 |
| | RFC-SMS-100-SMS-24-IN | Cable-CH1-02(RFC-SMS-100-SMS-24) | 2022/6/14 | 2023/6/13 |
| RF Coaxial Cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-(250795/4) | 2023/1/7 | 2024/1/6 |
| RF Coaxial Cable HUBER+SUHNER&EMCI | SUCOFLEX 104& EMC104-SM-SM8000 | CABLE-CH9-02 (248780+171006) | 2023/1/7 | 2024/1/6 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | N/A | N/A | N/A |
| Test Receiver Agilent | N9038A | MY52260177 | 2022/9/19 | 2023/9/18 |
| Turn Table Max-Full | TT-1510 | N/A | N/A | N/A |
| Turn Table Controller Max-Full | MF-7802 | N/A | N/A | N/A |

Notes:

1. The test was performed in XD - 966 chamber 6.
2. Tested Date: 2023/3/24 ~ 2023/4/6

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

| Operation Band | EUT Category | Limit |
|----------------|-----------------------------------|---|
| U-NII-1 | Outdoor Access Point | 1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
| | Fixed point-to-point Access Point | 1 Watt (30 dBm) |
| | Indoor Access Point | 1 Watt (30 dBm) |
| | Mobile and Portable client device | 250mW (24 dBm) |

5.3 Power Spectral Density

| Operation Band | EUT Category | Limit |
|----------------|-----------------------------------|------------|
| U-NII-1 | Outdoor Access Point | 17 dBm/MHz |
| | Fixed point-to-point Access Point | |
| | Indoor Access Point | |
| | Mobile and Portable client device | 11 dBm/MHz |

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

| Applicable To | Limit | |
|--|-----------------------|-----------------|
| 789033 D02 General UNII Test Procedure New Rules v02r01 | Field Strength at 3 m | |
| | PK: 74 (dBµV/m) | AV: 54 (dBµV/m) |

For transmitters operating in the 5.15-5.25 GHz band:

| Applicable To | EIRP Limit | Equivalent Field Strength at 3 m |
|---------------|-------------------|----------------------------------|
| 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.2 (dBµV/m) |

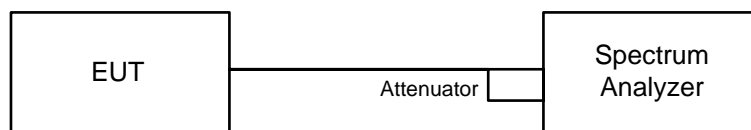
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

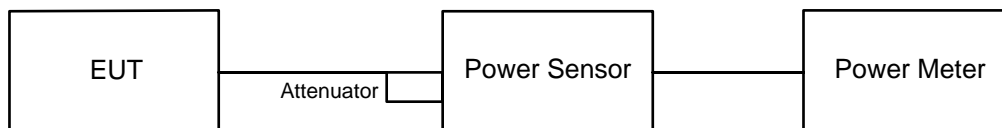


6.1.2 Test Procedure

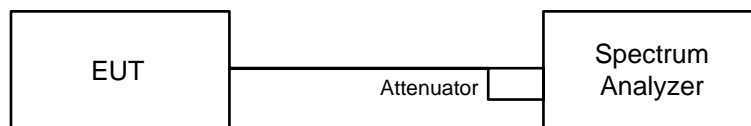
- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

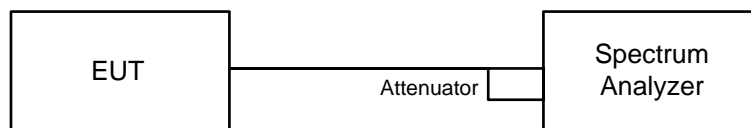
Method SA-1

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- c. Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- f. Record the max value

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

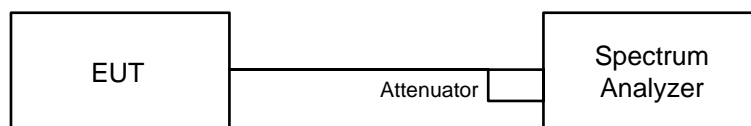
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

6.4 6 dB Bandwidth

6.4.1 Test Setup

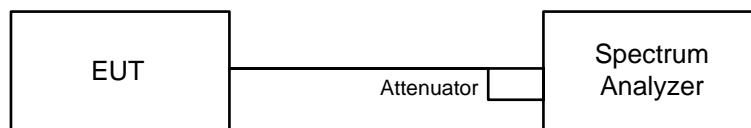


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

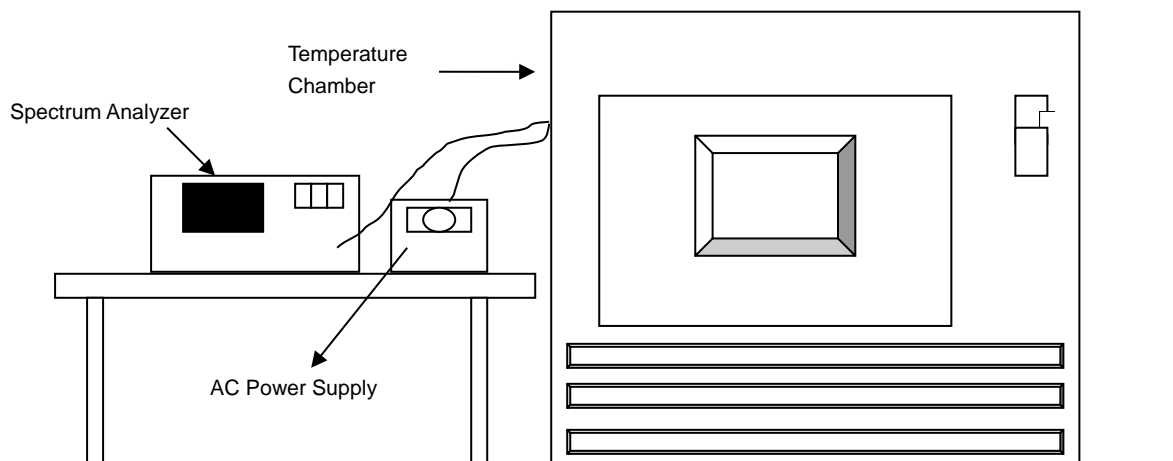


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to 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.

6.6 Frequency Stability

6.6.1 Test Setup

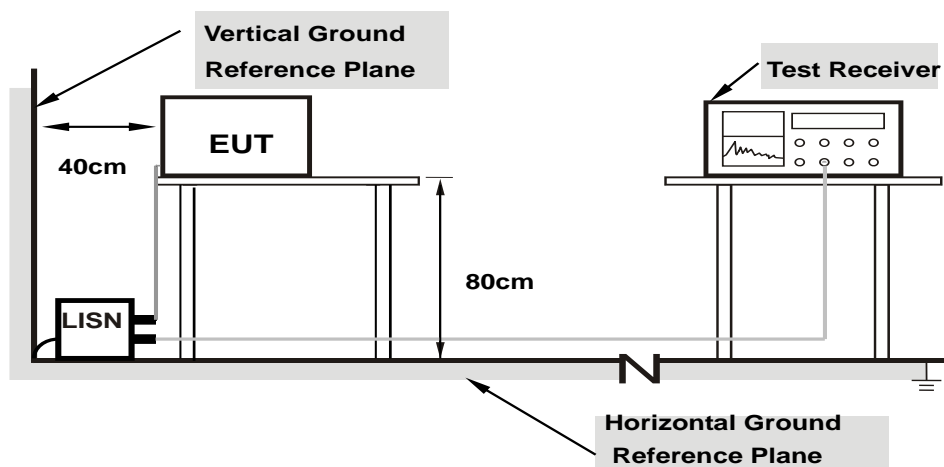


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

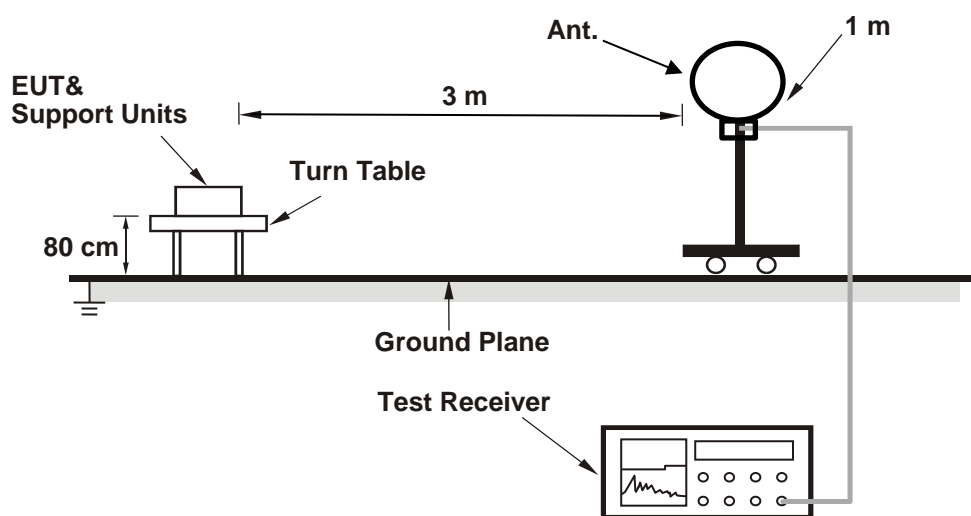
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

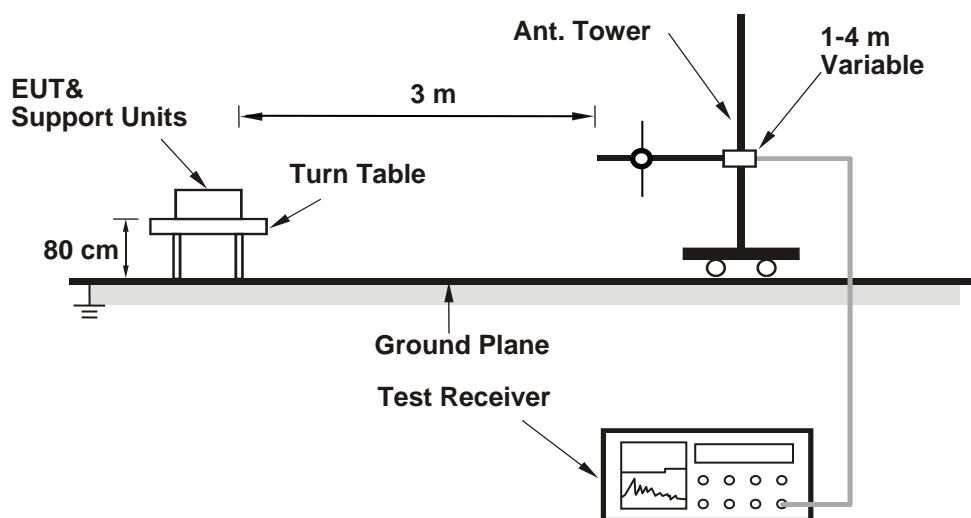
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

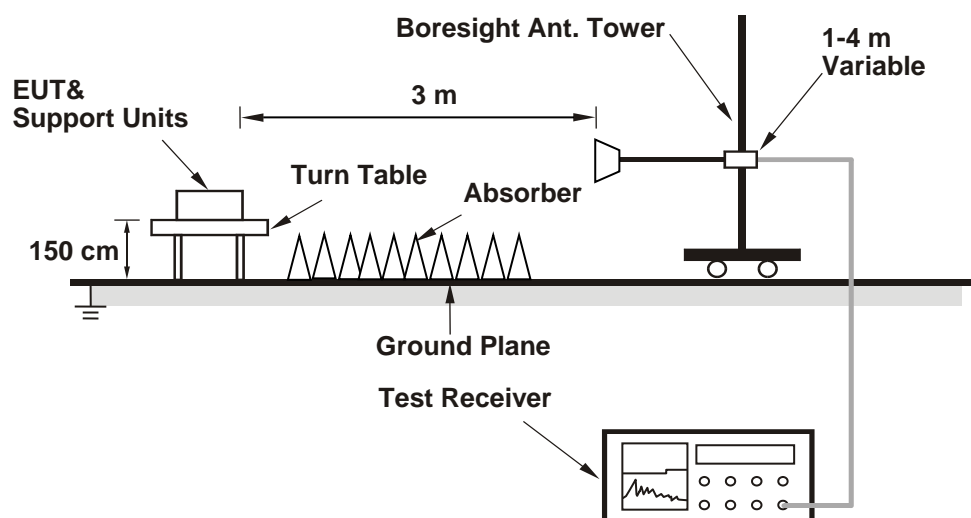
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 23°C, 61% RH | Tested By: | Gary Lin |
|--------------|----------------|---------------------------|--------------|------------|----------|

802.11a

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
|----------------|-----------------|----------------------|
| 52 | 5260 | 25.9 |
| 60 | 5300 | 24.67 |
| 64 | 5320 | 24.59 |
| 100 | 5500 | 23.82 |
| 116 | 5580 | 27.96 |
| 140 | 5700 | 25.54 |
| 144 (U-NII-2C) | 5720 | 19.61 |
| 144 (U-NII-3) | 5720 | 7.38 |

| Determined Output Power Limit | | | |
|-------------------------------|------------|-------------|--|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52 | 5260 | 25.90 | 25.13 > 24 |
| 60 | 5300 | 24.67 | 24.92 > 24 |
| 64 | 5320 | 24.59 | 24.9 > 24 |
| 100 | 5500 | 23.82 | 24.76 > 24 |
| 116 | 5580 | 27.96 | 25.46 > 24 |
| 140 | 5700 | 25.54 | 25.07 > 24 |
| 144 (U-NII-2C) | 5720 | 19.61 | 23.92 < 24 |

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

802.11ac (VHT20)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
|----------------|-----------------|----------------------|
| 52 | 5260 | 22.47 |
| 60 | 5300 | 22.47 |
| 64 | 5320 | 22.59 |
| 100 | 5500 | 22.6 |
| 116 | 5580 | 22.47 |
| 140 | 5700 | 22.84 |
| 144 (U-NII-2C) | 5720 | 16.62 |
| 144 (U-NII-3) | 5720 | 6.23 |

| Determined Output Power Limit | | | |
|-------------------------------|------------|-------------|--|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 52 | 5260 | 22.47 | 24.51 > 24 |
| 60 | 5300 | 22.47 | 24.51 > 24 |
| 64 | 5320 | 22.59 | 24.53 > 24 |
| 100 | 5500 | 22.60 | 24.54 > 24 |
| 116 | 5580 | 22.47 | 24.51 > 24 |
| 140 | 5700 | 22.84 | 24.58 > 24 |
| 144 (U-NII-2C) | 5720 | 16.62 | 23.2 < 24 |

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

802.11ac (VHT40)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
|----------------|-----------------|----------------------|
| 54 | 5270 | 45.33 |
| 62 | 5310 | 45.47 |
| 102 | 5510 | 45.42 |
| 110 | 5550 | 45.5 |
| 134 | 5670 | 45.35 |
| 142 (U-NII-2C) | 5710 | 38.07 |
| 142 (U-NII-3) | 5710 | 7.32 |

| Determined Output Power Limit | | | |
|-------------------------------|------------|-------------|--|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 54 | 5270 | 45.33 | 27.56 > 24 |
| 62 | 5310 | 45.47 | 27.57 > 24 |
| 102 | 5510 | 45.42 | 27.57 > 24 |
| 110 | 5550 | 45.50 | 27.58 > 24 |
| 134 | 5670 | 45.35 | 27.56 > 24 |
| 142 (U-NII-2C) | 5710 | 38.07 | 26.8 > 24 |

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

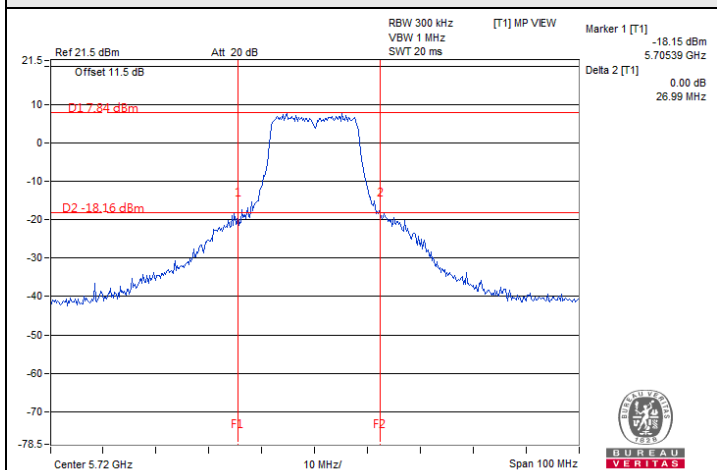
802.11ac (VHT80)

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) |
|----------------|-----------------|----------------------|
| 58 | 5290 | 85.96 |
| 106 | 5530 | 85.77 |
| 122 | 5610 | 85.46 |
| 138 (U-NII-2C) | 5690 | 77.14 |
| 138 (U-NII-3) | 5690 | 7.34 |

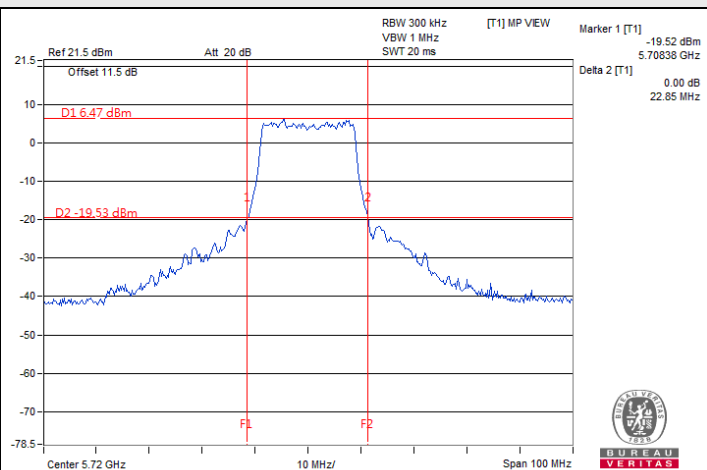
| Determined Output Power Limit | | | |
|-------------------------------|------------|-------------|--|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Power Limit (dBm) |
| 58 | 5290 | 85.96 | 30.34 > 24 |
| 106 | 5530 | 85.77 | 30.33 > 24 |
| 122 | 5610 | 85.46 | 30.31 > 24 |
| 138 (U-NII-2C) | 5690 | 77.14 | 29.87 > 24 |

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

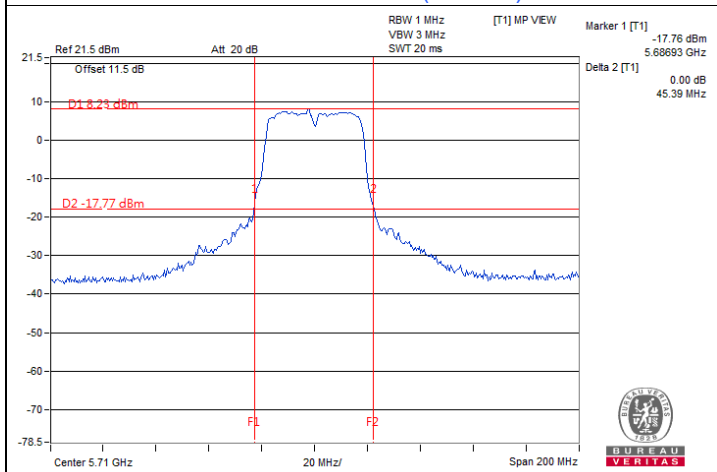
Spectrum Plot of Minimum Value



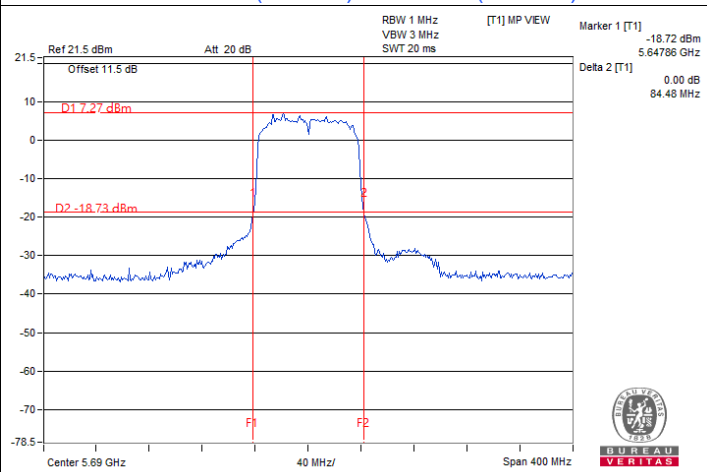
802.11a : CH 144 (U-NII-3)



802.11ac (VHT20) : CH 144 (U-NII-3)



802.11ac (VHT40) : CH 142 (U-NII-3)



802.11ac (VHT80) : CH 138 (U-NII-3)

Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.2 RF Output Power

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 23°C, 61% RH | Tested By: | Gary Lin |
|--------------|----------------|---------------------------|--------------|------------|----------|

802.11a

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|--------------------|---------------------|-------------------|-------------|
| 36 | 5180 | 60.674 | 17.83 | 24 | Pass |
| 40 | 5200 | 59.979 | 17.78 | 24 | Pass |
| 48 | 5240 | 57.016 | 17.56 | 24 | Pass |
| 52 | 5260 | 61.518 | 17.89 | 24 | Pass |
| 60 | 5300 | 57.148 | 17.57 | 24 | Pass |
| 64 | 5320 | 56.105 | 17.49 | 24 | Pass |
| 100 | 5500 | 55.847 | 17.47 | 24 | Pass |
| 116 | 5580 | 55.081 | 17.41 | 24 | Pass |
| 140 | 5700 | 46.559 | 16.68 | 24 | Pass |
| *144 (U-NII-2C) | 5720 | 33.884 | 15.30 | 23.92 | Pass |
| *144 (U-NII-3) | 5720 | 8.954 | 9.52 | 30 | Pass |
| 149 | 5745 | 42.462 | 16.28 | 30 | Pass |
| 157 | 5785 | 38.459 | 15.85 | 30 | Pass |
| 165 | 5825 | 34.119 | 15.33 | 30 | Pass |

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|--------------------|---------------------|-------------------|-------------|
| 36 | 5180 | 51.761 | 17.14 | 24 | Pass |
| 40 | 5200 | 51.88 | 17.15 | 24 | Pass |
| 48 | 5240 | 49.774 | 16.97 | 24 | Pass |
| 52 | 5260 | 51.404 | 17.11 | 24 | Pass |
| 60 | 5300 | 47.315 | 16.75 | 24 | Pass |
| 64 | 5320 | 50.582 | 17.04 | 24 | Pass |
| 100 | 5500 | 48.753 | 16.88 | 24 | Pass |
| 116 | 5580 | 43.152 | 16.35 | 24 | Pass |
| 140 | 5700 | 37.584 | 15.75 | 24 | Pass |
| *144 (U-NII-2C) | 5720 | 28.054 | 14.48 | 23.2 | Pass |
| *144 (U-NII-3) | 5720 | 8.054 | 9.06 | 30 | Pass |
| 149 | 5745 | 33.651 | 15.27 | 30 | Pass |
| 157 | 5785 | 32.734 | 15.15 | 30 | Pass |
| 165 | 5825 | 30.62 | 14.86 | 30 | Pass |

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. For U-NII-1, the antenna gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|--------------------|---------------------|-------------------|-------------|
| 38 | 5190 | 47.315 | 16.75 | 24 | Pass |
| 46 | 5230 | 43.053 | 16.34 | 24 | Pass |
| 54 | 5270 | 39.902 | 16.01 | 24 | Pass |
| 62 | 5310 | 38.548 | 15.86 | 24 | Pass |
| 102 | 5510 | 37.584 | 15.75 | 24 | Pass |
| 110 | 5550 | 38.107 | 15.81 | 24 | Pass |
| 134 | 5670 | 33.266 | 15.22 | 24 | Pass |
| *142 (U-NII-2C) | 5710 | 27.353 | 14.37 | 24 | Pass |
| *142 (U-NII-3) | 5710 | 2.198 | 3.42 | 30 | Pass |
| 151 | 5755 | 29.992 | 14.77 | 30 | Pass |
| 159 | 5795 | 24.266 | 13.85 | 30 | Pass |

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|--------------------|---------------------|-------------------|-------------|
| 36 | 5180 | 52.602 | 17.21 | 24 | Pass |
| 40 | 5200 | 52 | 17.16 | 24 | Pass |
| 48 | 5240 | 50.234 | 17.01 | 24 | Pass |
| 52 | 5260 | 51.523 | 17.12 | 24 | Pass |
| 60 | 5300 | 50.466 | 17.03 | 24 | Pass |
| 64 | 5320 | 50.699 | 17.05 | 24 | Pass |
| 100 | 5500 | 49.774 | 16.97 | 24 | Pass |
| 116 | 5580 | 46.345 | 16.66 | 24 | Pass |
| 140 | 5700 | 42.658 | 16.30 | 24 | Pass |
| *144 (U-NII-2C) | 5720 | 30.269 | 14.81 | 23.2 | Pass |
| *144 (U-NII-3) | 5720 | 8.65 | 9.37 | 30 | Pass |
| 149 | 5745 | 33.806 | 15.29 | 30 | Pass |
| 157 | 5785 | 32.81 | 15.16 | 30 | Pass |
| 165 | 5825 | 31.477 | 14.98 | 30 | Pass |

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. For U-NII-1, the antenna gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|--------------------|---------------------|-------------------|-------------|
| 38 | 5190 | 49.659 | 16.96 | 24 | Pass |
| 46 | 5230 | 47.315 | 16.75 | 24 | Pass |
| 54 | 5270 | 45.394 | 16.57 | 24 | Pass |
| 62 | 5310 | 38.726 | 15.88 | 24 | Pass |
| 102 | 5510 | 38.548 | 15.86 | 24 | Pass |
| 110 | 5550 | 38.194 | 15.82 | 24 | Pass |
| 134 | 5670 | 33.42 | 15.24 | 24 | Pass |
| *142 (U-NII-2C) | 5710 | 27.925 | 14.46 | 24 | Pass |
| *142 (U-NII-3) | 5710 | 2.218 | 3.46 | 30 | Pass |
| 151 | 5755 | 30.061 | 14.78 | 30 | Pass |
| 159 | 5795 | 25.235 | 14.02 | 30 | Pass |

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

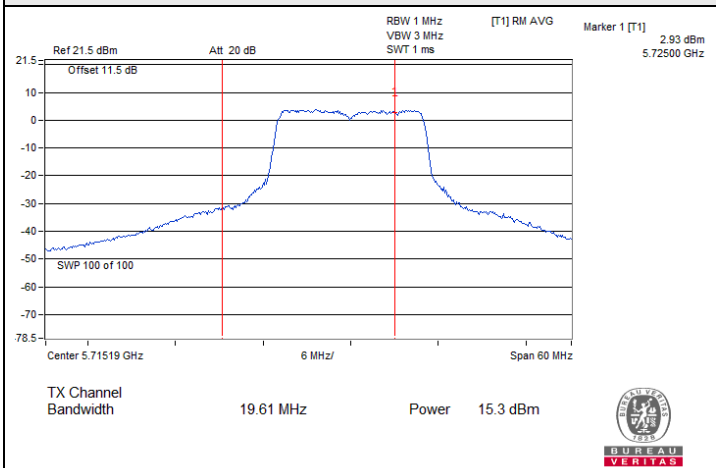
| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Power Limit (dBm) | Test Result |
|-----------------|-------------------|--------------------|---------------------|-------------------|-------------|
| 42 | 5210 | 41.976 | 16.23 | 24 | Pass |
| 58 | 5290 | 36.728 | 15.65 | 24 | Pass |
| 106 | 5530 | 35.892 | 15.55 | 24 | Pass |
| 122 | 5610 | 34.356 | 15.36 | 24 | Pass |
| *138 (U-NII-2C) | 5690 | 30.62 | 14.86 | 24 | Pass |
| *138 (U-NII-3) | 5690 | 0.6457 | -1.90 | 30 | Pass |
| 155 | 5775 | 26.607 | 14.25 | 30 | Pass |

Notes:

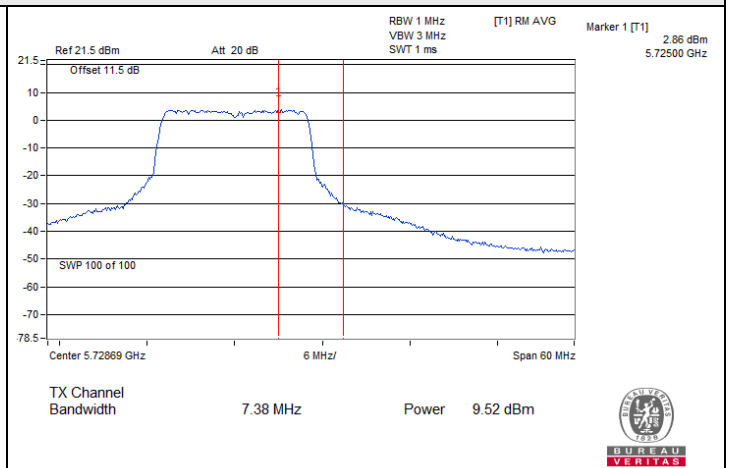
- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.



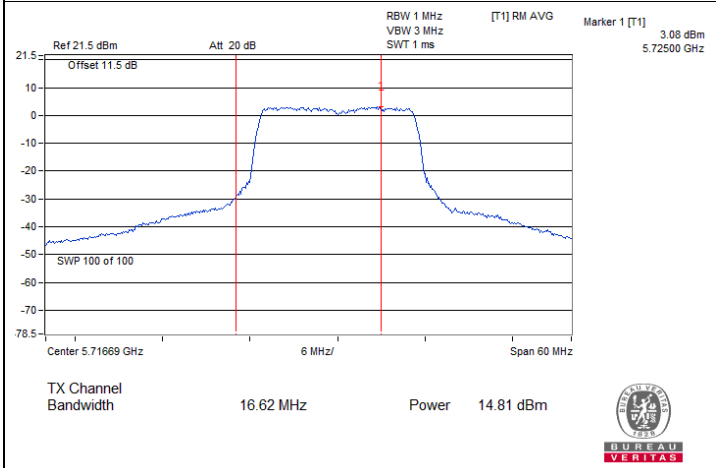
Spectrum Plot for channel straddling



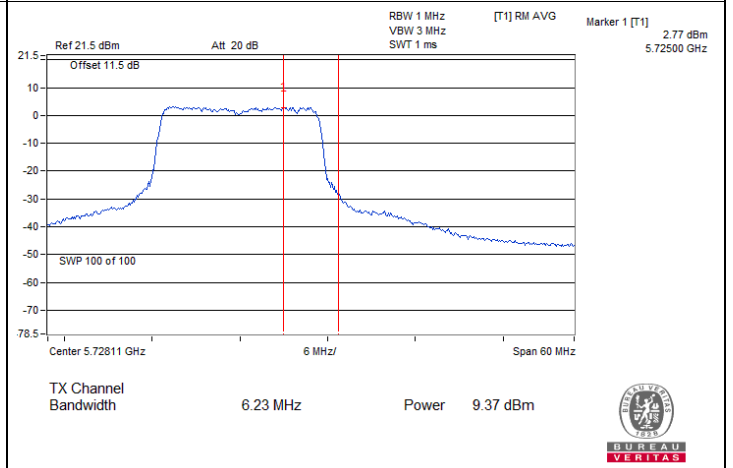
802.11a : CH 144 (U-NII-2C)



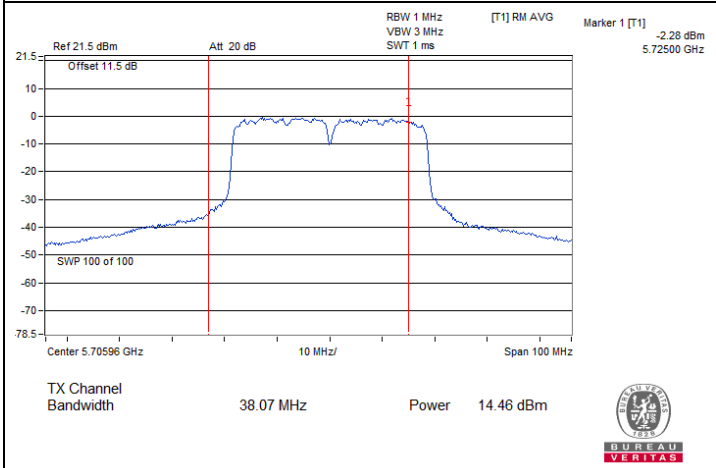
802.11a : CH 144 (U-NII-3)



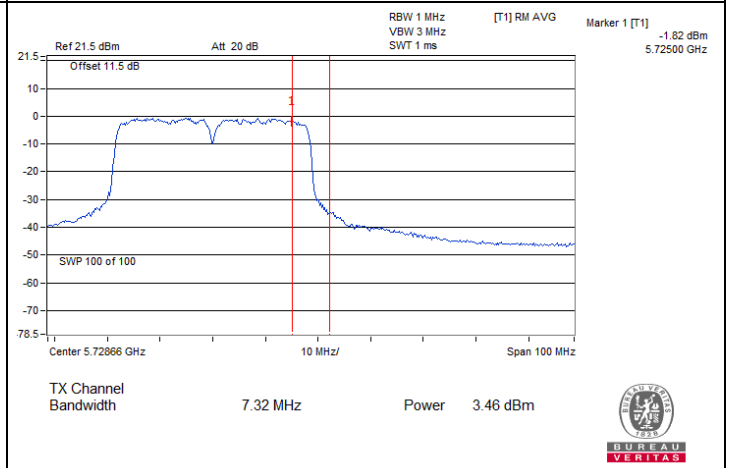
802.11ac (VHT20) : CH 144 (U-NII-2C)



802.11ac (VHT20) : CH 144 (U-NII-3)



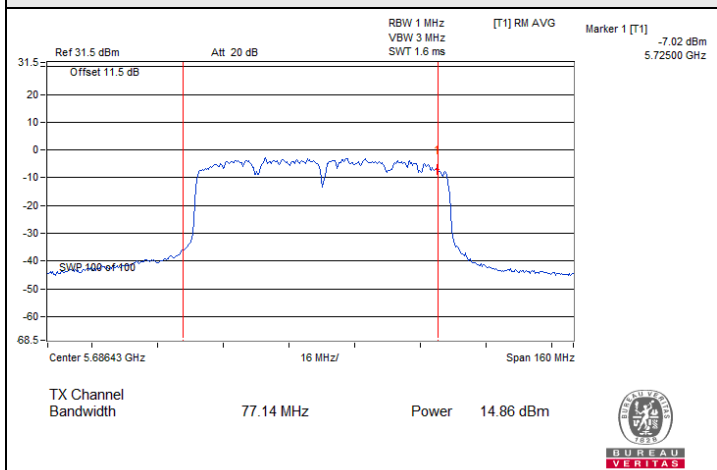
802.11ac (VHT40) : CH 142 (U-NII-2C)



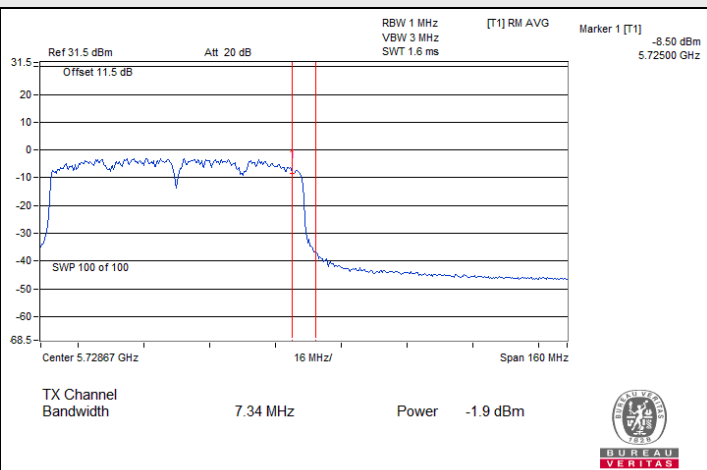
802.11ac (VHT40) : CH 142 (U-NII-3)



Spectrum Plot for channel straddling



802.11ac (VHT80) : CH 138 (U-NII-2C)



802.11ac (VHT80) : CH 138 (U-NII-3)

7.3 Power Spectral Density

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 23°C, 61% RH | Tested By: | Gary Lin |
|--------------|----------------|---------------------------|--------------|------------|----------|

802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|--------------------------|-------------|
| 36 | 5180 | 4.64 | 11 | Pass |
| 40 | 5200 | 4.67 | 11 | Pass |
| 48 | 5240 | 4.43 | 11 | Pass |
| 52 | 5260 | 4.69 | 11 | Pass |
| 60 | 5300 | 4.42 | 11 | Pass |
| 64 | 5320 | 4.34 | 11 | Pass |
| 100 | 5500 | 4.33 | 11 | Pass |
| 116 | 5580 | 4.29 | 11 | Pass |
| 140 | 5700 | 3.55 | 11 | Pass |
| 144 (U-NII-2C) | 5720 | 3.55 | 11 | Pass |

Notes:

1. For U-NII-1, the antenna gain is 2.2 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|--------------------------|-------------|
| 36 | 5180 | 4.00 | 11 | Pass |
| 40 | 5200 | 3.91 | 11 | Pass |
| 48 | 5240 | 3.84 | 11 | Pass |
| 52 | 5260 | 3.83 | 11 | Pass |
| 60 | 5300 | 3.87 | 11 | Pass |
| 64 | 5320 | 3.81 | 11 | Pass |
| 100 | 5500 | 3.78 | 11 | Pass |
| 116 | 5580 | 3.46 | 11 | Pass |
| 140 | 5700 | 3.11 | 11 | Pass |
| 144 (U-NII-2C) | 5720 | 3.08 | 11 | Pass |

Notes:

1. For U-NII-1, the antenna gain is 2.2 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|--------------------------|-------------|
| 38 | 5190 | 0.55 | 11 | Pass |
| 46 | 5230 | 0.41 | 11 | Pass |
| 54 | 5270 | 0.23 | 11 | Pass |
| 62 | 5310 | -0.42 | 11 | Pass |
| 102 | 5510 | -0.49 | 11 | Pass |
| 110 | 5550 | -0.46 | 11 | Pass |
| 134 | 5670 | -1.09 | 11 | Pass |
| 142 (U-NII-2C) | 5710 | -1.10 | 11 | Pass |

Notes:

1. For U-NII-1, the antenna gain is 2.2 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | Max. PSD Limit (dBm/MHz) | Test Result |
|----------------|-------------------|---------------|--------------------------|-------------|
| 42 | 5210 | -2.93 | 11 | Pass |
| 58 | 5290 | -3.37 | 11 | Pass |
| 106 | 5530 | -3.54 | 11 | Pass |
| 122 | 5610 | -3.76 | 11 | Pass |
| 138 (U-NII-2C) | 5690 | -3.77 | 11 | Pass |

Notes:

1. For U-NII-1, the antenna gain is 2.2 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.7 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.6 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|---------------|-------------------|------------------|------------------|------------------------|-------------|
| 144 (U-NII-3) | 5720 | -5.83 | -3.61 | 30 | Pass |
| 149 | 5745 | -5.84 | -3.62 | 30 | Pass |
| 157 | 5785 | -6.23 | -4.01 | 30 | Pass |
| 165 | 5825 | -6.74 | -4.52 | 30 | Pass |

Note: For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|---------------|-------------------|------------------|------------------|------------------------|-------------|
| 144 (U-NII-3) | 5720 | -6.51 | -4.29 | 30 | Pass |
| 149 | 5745 | -6.84 | -4.62 | 30 | Pass |
| 157 | 5785 | -6.95 | -4.73 | 30 | Pass |
| 165 | 5825 | -7.15 | -4.93 | 30 | Pass |

Note: For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|---------------|-------------------|------------------|------------------|------------------------|-------------|
| 142 (U-NII-3) | 5710 | -12.56 | -10.34 | 30 | Pass |
| 151 | 5755 | -11.11 | -8.89 | 30 | Pass |
| 159 | 5795 | -11.76 | -9.54 | 30 | Pass |

Note: For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the power density limit shall not be reduced.

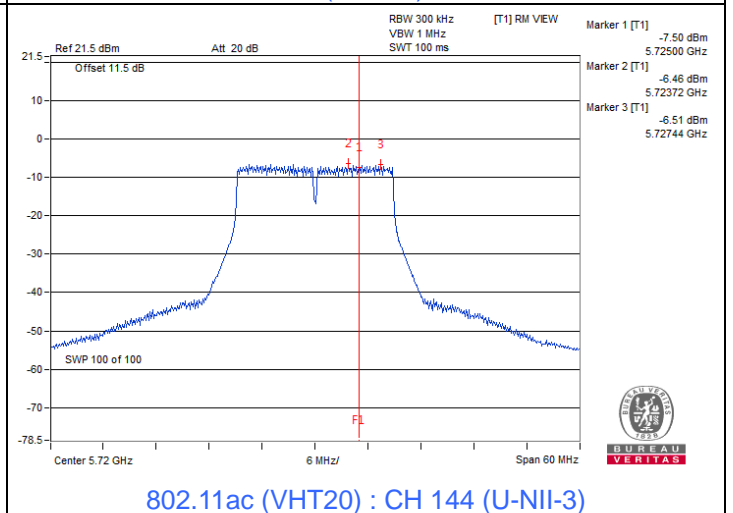
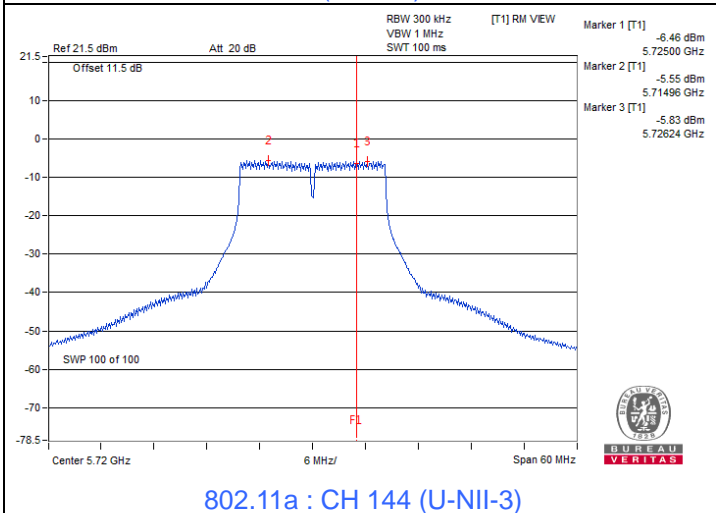
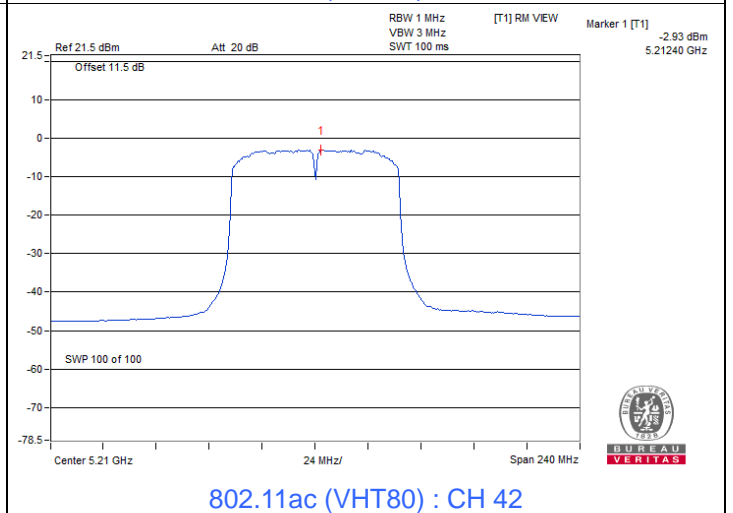
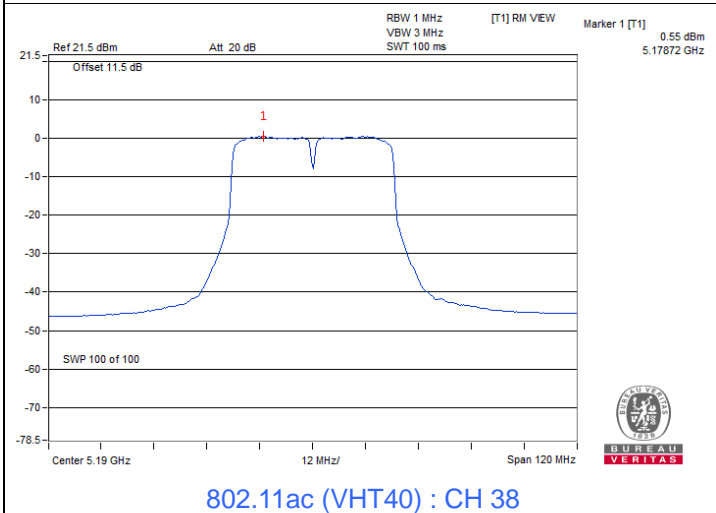
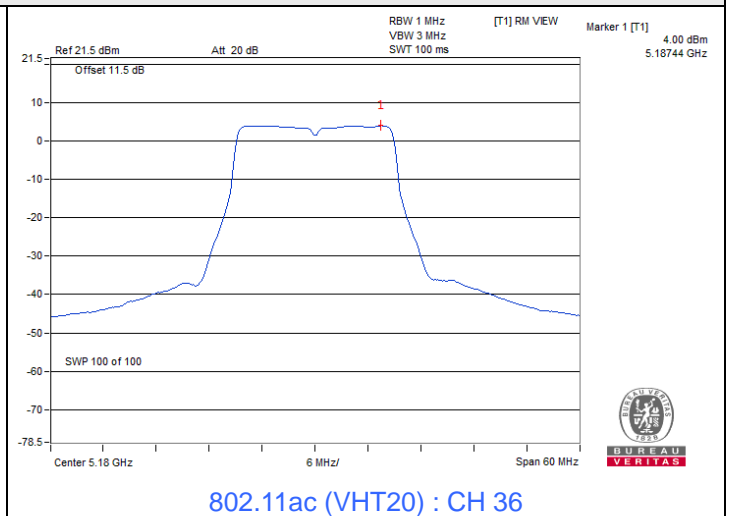
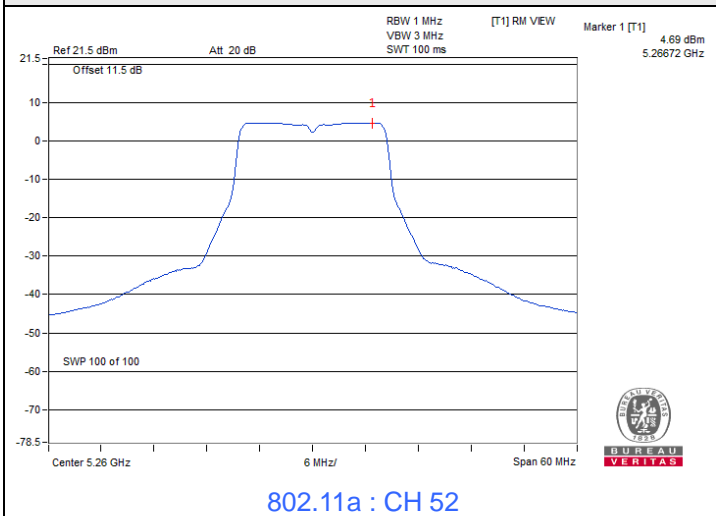
802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | PSD Limit (dBm/500kHz) | Test Result |
|---------------|-------------------|------------------|------------------|------------------------|-------------|
| 138 (U-NII-3) | 5690 | -16.92 | -14.70 | 30 | Pass |
| 155 | 5775 | -13.69 | -11.47 | 30 | Pass |

Note: For U-NII-3, the antenna gain is 1.9 dBi < 6 dBi, so the power density limit shall not be reduced.

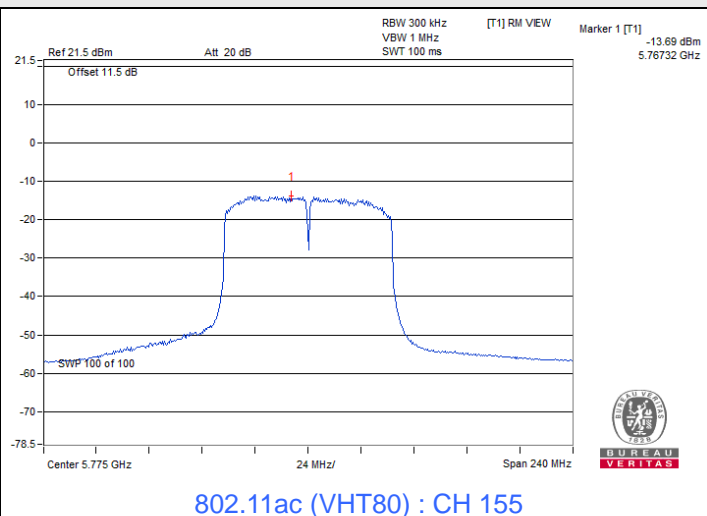
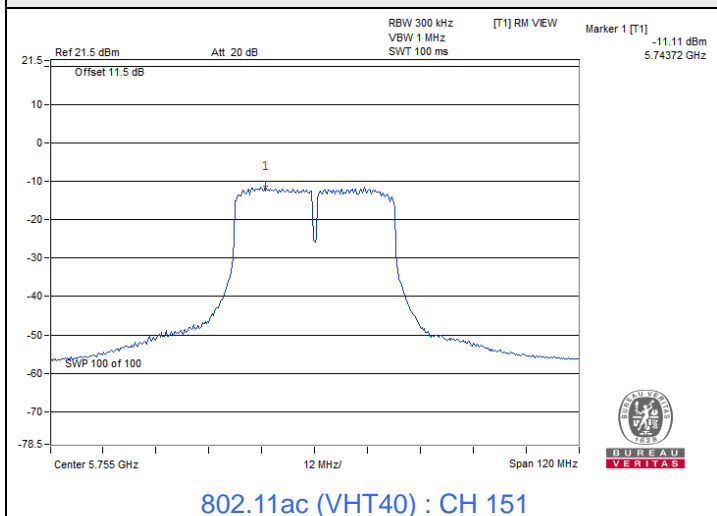


Spectrum Plot of Maximum Value





Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 23°C, 61% RH | Tested By: | Gary Lin |
|--------------|----------------|---------------------------|--------------|------------|----------|

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|---------------------|---------------------|-------------|
| 144 (U-NII-3) | 5720 | 3.18 | 0.5 | Pass |
| 149 | 5745 | 16.42 | 0.5 | Pass |
| 157 | 5785 | 16.44 | 0.5 | Pass |
| 165 | 5825 | 16.43 | 0.5 | Pass |

802.11ac (VHT20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|---------------------|---------------------|-------------|
| 144 (U-NII-3) | 5720 | 3.79 | 0.5 | Pass |
| 149 | 5745 | 17.65 | 0.5 | Pass |
| 157 | 5785 | 17.66 | 0.5 | Pass |
| 165 | 5825 | 17.66 | 0.5 | Pass |

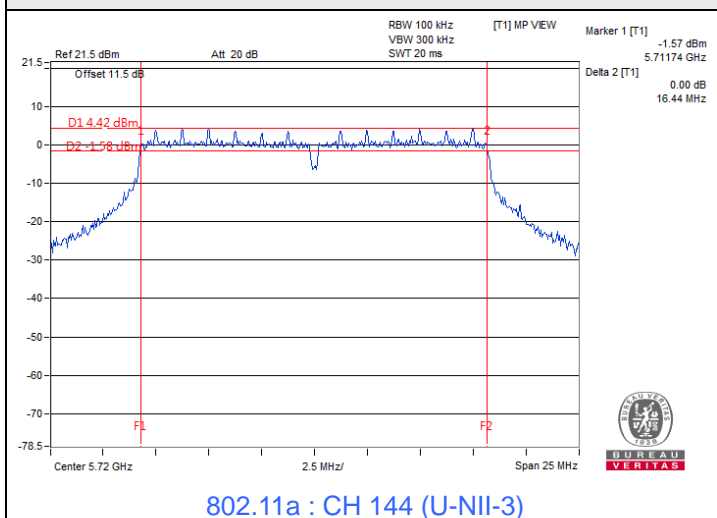
802.11ac (VHT40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|---------------------|---------------------|-------------|
| 142 (U-NII-3) | 5710 | 2.66 | 0.5 | Pass |
| 151 | 5755 | 35.47 | 0.5 | Pass |
| 159 | 5795 | 35.34 | 0.5 | Pass |

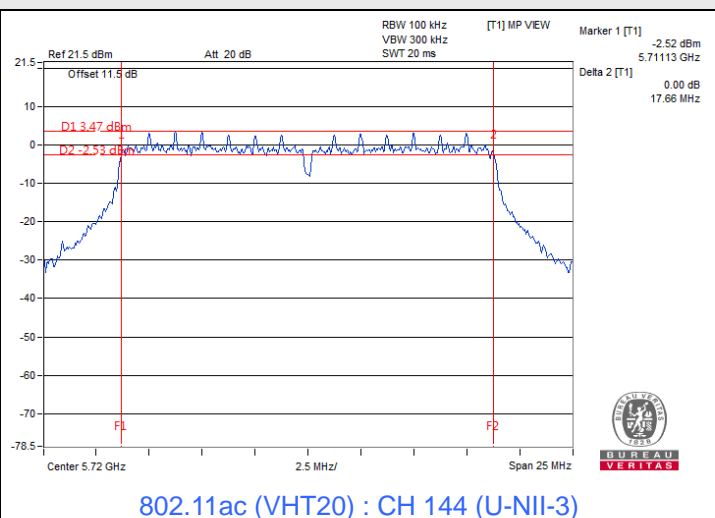
802.11ac (VHT80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------------|-----------------|---------------------|---------------------|-------------|
| 138 (U-NII-3) | 5690 | 2.63 | 0.5 | Pass |
| 155 | 5775 | 75.27 | 0.5 | Pass |

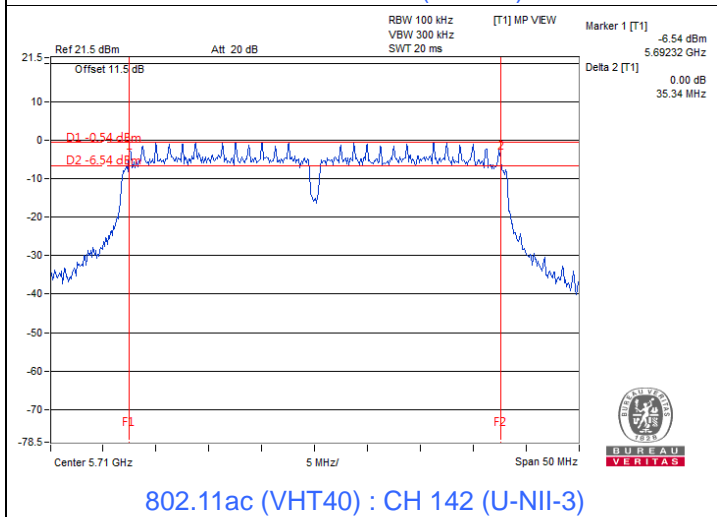
Spectrum Plot of Minimum Value



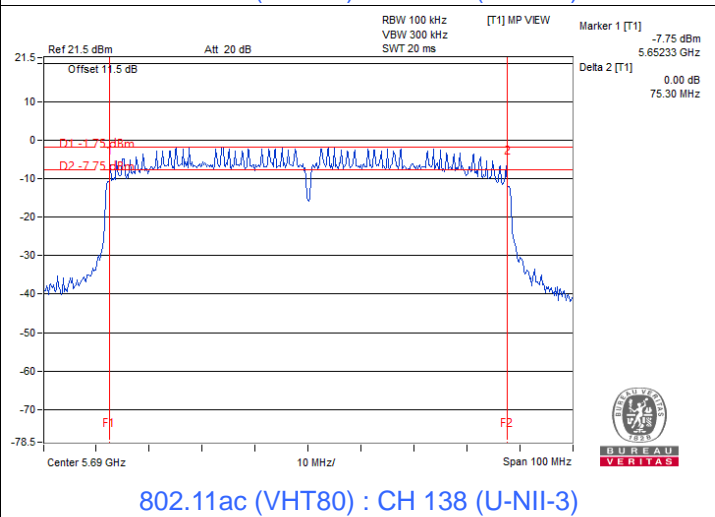
802.11a : CH 144 (U-NII-3)



802.11ac (VHT20) : CH 144 (U-NII-3)



802.11ac (VHT40) : CH 142 (U-NII-3)



802.11ac (VHT80) : CH 138 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 23°C, 61% RH | Tested By: | Gary Lin |
|--------------|----------------|---------------------------|--------------|------------|----------|

802.11a

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|----------------|-----------------|--------------------------|
| 36 | 5180 | 17.16 |
| 40 | 5200 | 17.16 |
| 48 | 5240 | 17.28 |
| 52 | 5260 | 17.28 |
| 60 | 5300 | 17.28 |
| 64 | 5320 | 17.28 |
| 100 | 5500 | 17.16 |
| 116 | 5580 | 17.4 |
| 140 | 5700 | 17.28 |
| 144 (U-NII-2C) | 5720 | 13.76 |
| 144 (U-NII-3) | 5720 | 3.52 |
| 149 | 5745 | 17.28 |
| 157 | 5785 | 17.28 |
| 165 | 5825 | 17.28 |

802.11ac (VHT20)

| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|----------------|-----------------|--------------------------|
| 36 | 5180 | 18.12 |
| 40 | 5200 | 18.12 |
| 48 | 5240 | 18.12 |
| 52 | 5260 | 18.12 |
| 60 | 5300 | 18.12 |
| 64 | 5320 | 18.12 |
| 100 | 5500 | 18.12 |
| 116 | 5580 | 18.12 |
| 140 | 5700 | 18.12 |
| 144 (U-NII-2C) | 5720 | 14.12 |
| 144 (U-NII-3) | 5720 | 4 |
| 149 | 5745 | 18.12 |
| 157 | 5785 | 18.12 |
| 165 | 5825 | 18.12 |

802.11ac (VHT40)

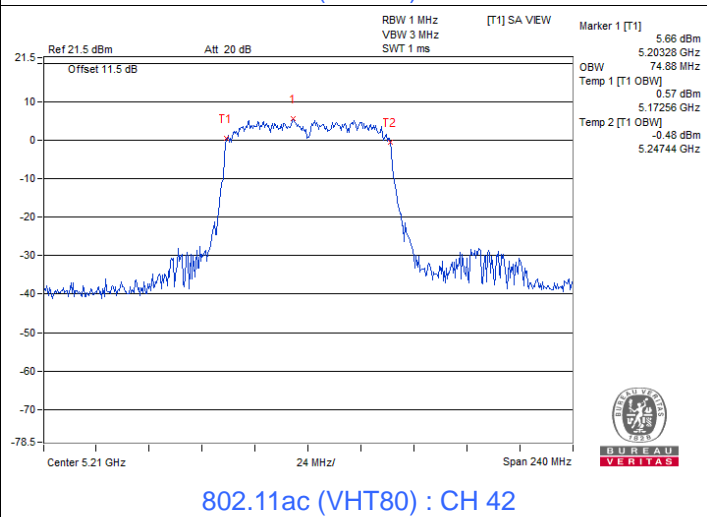
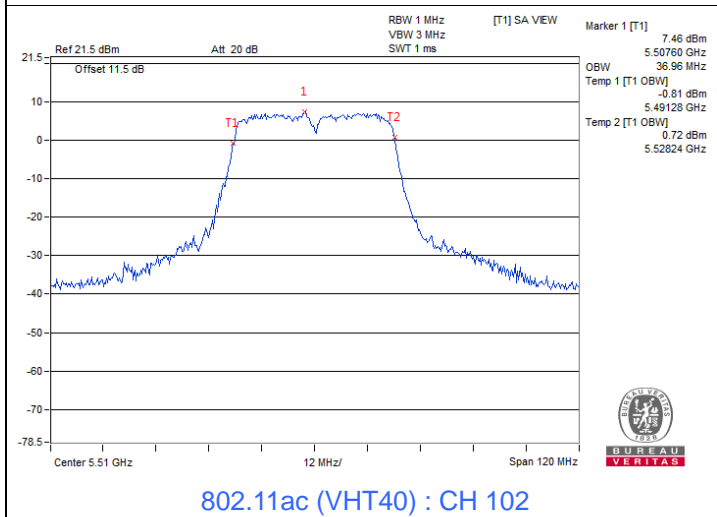
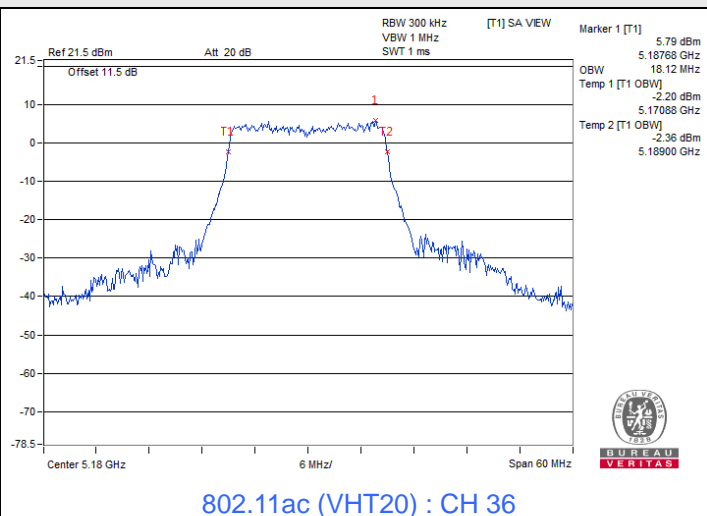
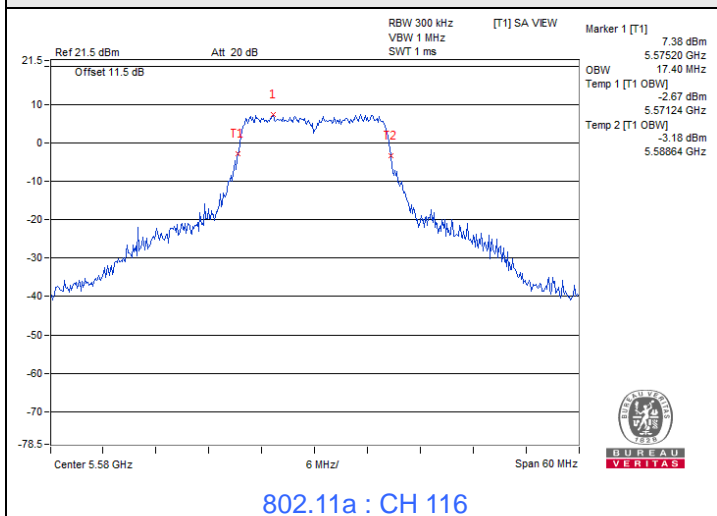
| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|----------------|-----------------|--------------------------|
| 38 | 5190 | 36.72 |
| 46 | 5230 | 36.72 |
| 54 | 5270 | 36.72 |
| 62 | 5310 | 36.72 |
| 102 | 5510 | 36.96 |
| 110 | 5550 | 36.96 |
| 134 | 5670 | 36.96 |
| 142 (U-NII-2C) | 5710 | 33.72 |
| 142 (U-NII-3) | 5710 | 3.24 |
| 151 | 5755 | 36.96 |
| 159 | 5795 | 36.96 |

802.11ac (VHT80)

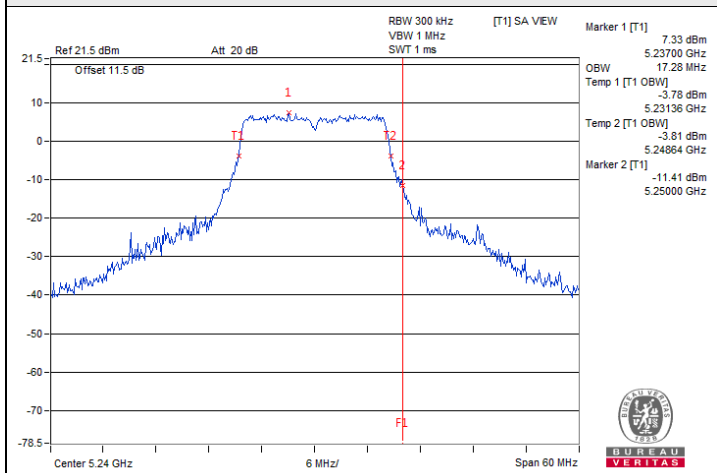
| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|----------------|-----------------|--------------------------|
| 42 | 5210 | 74.88 |
| 58 | 5290 | 74.88 |
| 106 | 5530 | 74.88 |
| 122 | 5610 | 74.88 |
| 138 (U-NII-2C) | 5690 | 72.44 |
| 138 (U-NII-3) | 5690 | 2.44 |
| 155 | 5775 | 74.88 |



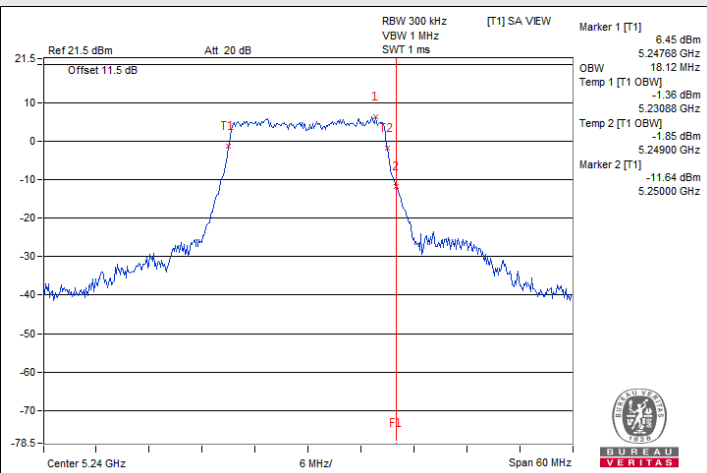
Spectrum Plot of Maximum Value



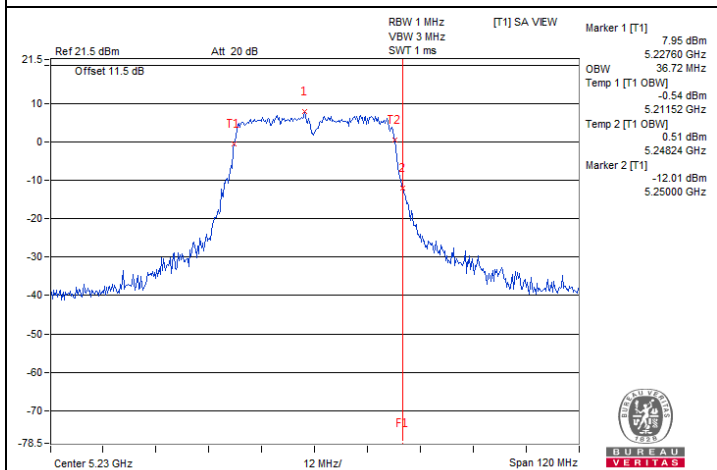
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



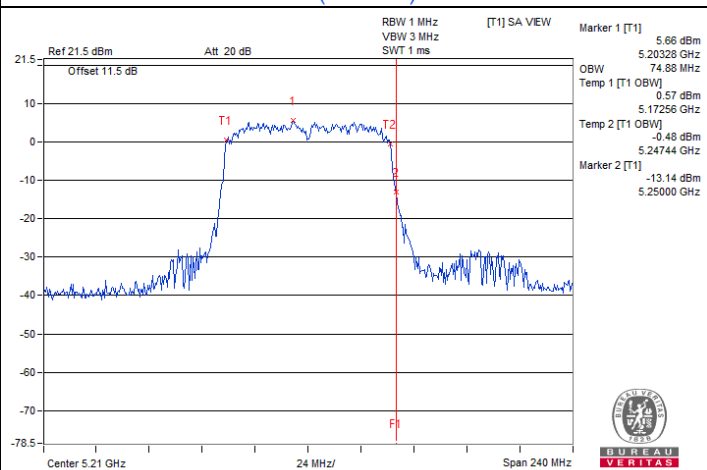
802.11a : CH 48



802.11a (VHT20) : CH 48



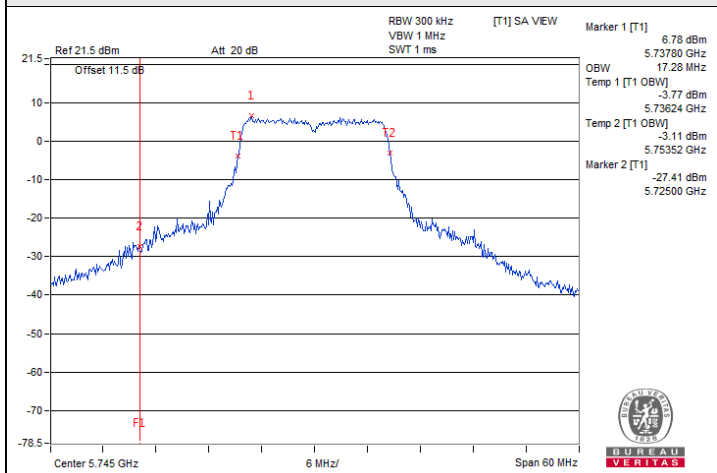
802.11ac (VHT40) : CH 46



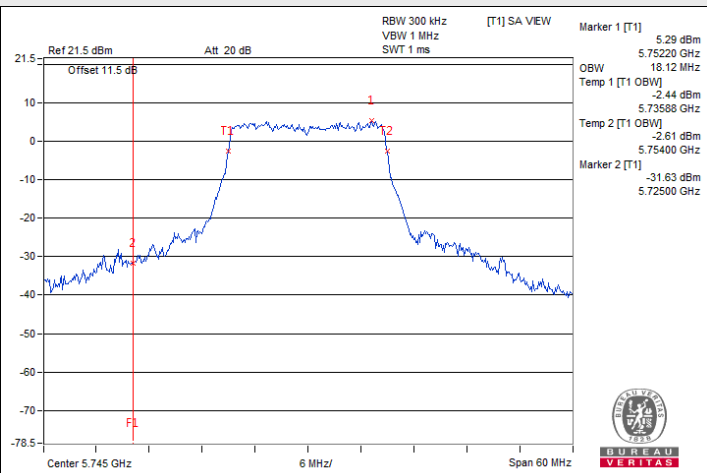
802.11ac (VHT80) : CH 42



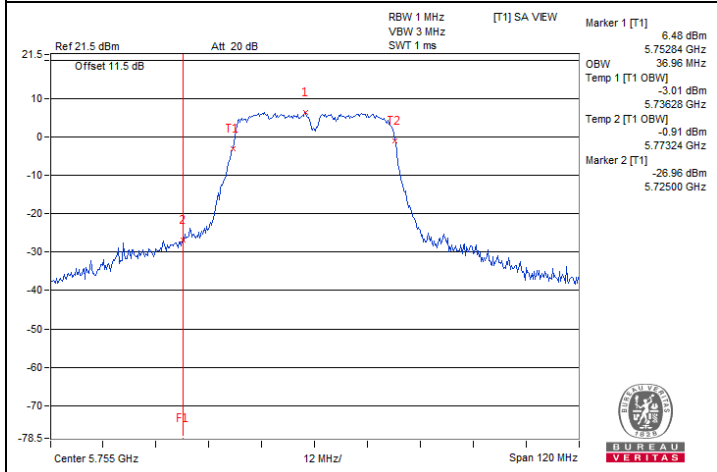
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



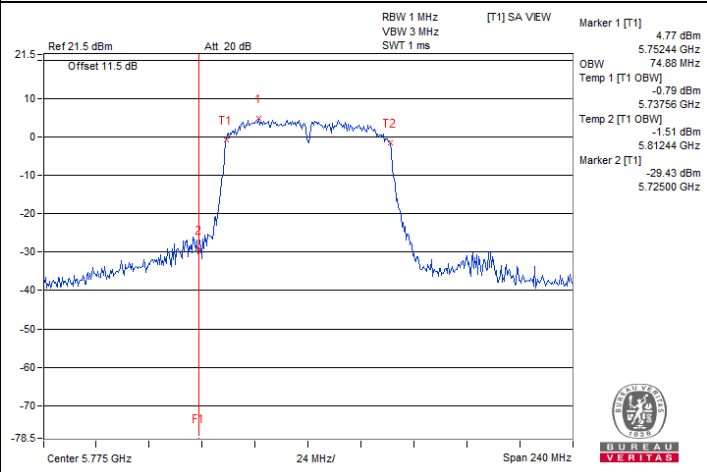
802.11a : CH 149



802.11ac (VHT20) : CH 149



802.11ac (VHT40) : CH 151



802.11ac (VHT80) : CH 155

7.6 Frequency Stability

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|----------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 23°C, 61% RH | Tested By: | Gary Lin |
|--------------|----------------|---------------------------|--------------|------------|----------|

802.11a

| Frequency Stability Versus Temperature | | | | | | | | | |
|--|--------------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| Operating Frequency: 5180 MHz | | | | | | | | | |
| Temp. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minutes | | 5 Minutes | | 10 Minutes | |
| | | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result |
| 50 | 120 | 5179.9796 | Pass | 5179.9784 | Pass | 5179.9753 | Pass | 5179.9795 | Pass |
| 40 | 120 | 5180.0126 | Pass | 5180.0136 | Pass | 5180.0171 | Pass | 5180.0171 | Pass |
| 30 | 120 | 5180.0083 | Pass | 5180.011 | Pass | 5180.0081 | Pass | 5180.0093 | Pass |
| 20 | 120 | 5180.0196 | Pass | 5180.0213 | Pass | 5180.0199 | Pass | 5180.0203 | Pass |
| 10 | 120 | 5179.9846 | Pass | 5179.9844 | Pass | 5179.9838 | Pass | 5179.9804 | Pass |
| 0 | 120 | 5179.9773 | Pass | 5179.9795 | Pass | 5179.9767 | Pass | 5179.9773 | Pass |

| Frequency Stability Versus Voltage | | | | | | | | | |
|------------------------------------|--------------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| Operating Frequency: 5180 MHz | | | | | | | | | |
| Temp. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minutes | | 5 Minutes | | 10 Minutes | |
| | | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result | Measured Frequency (MHz) | Test Result |
| 20 | 138 | 5180.019 | Pass | 5180.0193 | Pass | 5180.0156 | Pass | 5180.0178 | Pass |
| | 120 | 5180.0196 | Pass | 5180.0213 | Pass | 5180.0199 | Pass | 5180.0203 | Pass |
| | 102 | 5180.019 | Pass | 5180.02 | Pass | 5180.0195 | Pass | 5180.0173 | Pass |

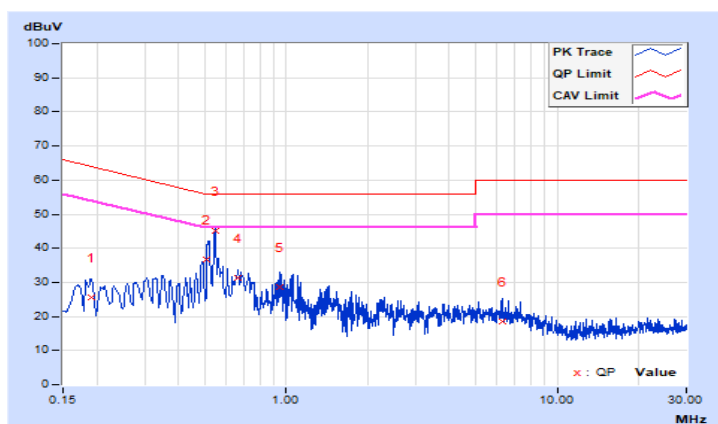
7.7 AC Power Conducted Emissions

| | | | |
|-----------------|----------------|--|---------------------------------------|
| RF Mode | 802.11a | Channel | CH 52 : 5260 MHz |
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

| 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 | 0.19000 | 10.21 | 15.47 | 7.16 | 25.68 | 17.37 | 64.04 | 54.04 | -38.36 | -36.67 |
| 2 | 0.51067 | 10.31 | 26.49 | 15.94 | 36.80 | 26.25 | 56.00 | 46.00 | -19.20 | -19.75 |
| 3 | 0.54600 | 10.32 | 34.92 | 30.59 | 45.24 | 40.91 | 56.00 | 46.00 | -10.76 | -5.09 |
| 4 | 0.66200 | 10.33 | 20.93 | 15.93 | 31.26 | 26.26 | 56.00 | 46.00 | -24.74 | -19.74 |
| 5 | 0.94200 | 10.37 | 18.23 | 9.03 | 28.60 | 19.40 | 56.00 | 46.00 | -27.40 | -26.60 |
| 6 | 6.31000 | 10.65 | 7.83 | 1.33 | 18.48 | 11.98 | 60.00 | 50.00 | -41.52 | -38.02 |

Remarks:

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

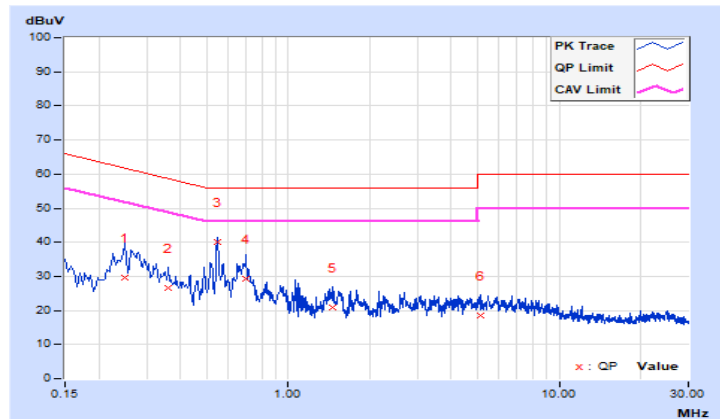


| | | | |
|-----------------|----------------|--|---------------------------------------|
| RF Mode | 802.11a | Channel | CH 52 : 5260 MHz |
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

| 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 | 0.25000 | 10.27 | 19.22 | 6.66 | 29.49 | 16.93 | 61.76 | 51.76 | -32.27 | -34.83 |
| 2 | 0.36200 | 10.31 | 16.33 | 2.87 | 26.64 | 13.18 | 58.68 | 48.68 | -32.04 | -35.50 |
| 3 | 0.54600 | 10.34 | 29.58 | 23.47 | 39.92 | 33.81 | 56.00 | 46.00 | -16.08 | -12.19 |
| 4 | 0.69800 | 10.36 | 18.79 | 13.50 | 29.15 | 23.86 | 56.00 | 46.00 | -26.85 | -22.14 |
| 5 | 1.45400 | 10.44 | 10.41 | 4.81 | 20.85 | 15.25 | 56.00 | 46.00 | -35.15 | -30.75 |
| 6 | 5.10200 | 10.62 | 7.82 | 2.20 | 18.44 | 12.82 | 60.00 | 50.00 | -41.56 | -37.18 |

Remarks:

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



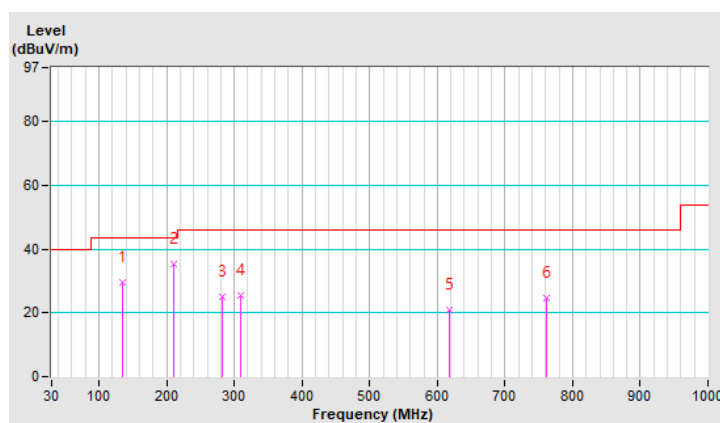
7.8 Unwanted Emissions below 1 GHz

| | | | |
|-----------------|----------------|-------------------------------|------------------|
| RF Mode | 802.11a | Channel | CH 52 : 5260 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | 134.22 | 29.5 QP | 43.5 | -14.0 | 1.05 H | 185 | 48.0 | -18.5 |
| 2 | 211.17 | 35.3 QP | 43.5 | -8.2 | 1.45 H | 209 | 56.1 | -20.8 |
| 3 | 281.67 | 25.1 QP | 46.0 | -20.9 | 1.15 H | 141 | 42.8 | -17.7 |
| 4 | 309.10 | 25.5 QP | 46.0 | -20.5 | 1.85 H | 205 | 42.4 | -16.9 |
| 5 | 618.54 | 20.8 QP | 46.0 | -25.2 | 1.15 H | 101 | 30.9 | -10.1 |
| 6 | 761.30 | 24.6 QP | 46.0 | -21.4 | 1.45 H | 159 | 32.5 | -7.9 |

Remarks:

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

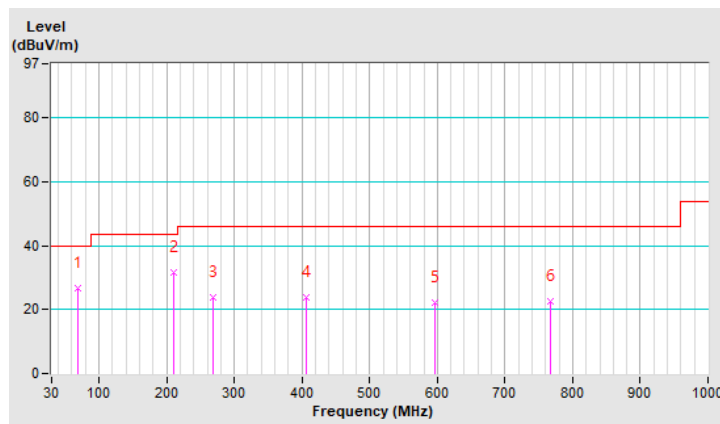


| | | | |
|-----------------|----------------|-------------------------------|------------------|
| RF Mode | 802.11a | Channel | CH 52 : 5260 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | 69.40 | 26.9 QP | 40.0 | -13.1 | 1.15 V | 241 | 46.8 | -19.9 |
| 2 | 210.28 | 31.7 QP | 43.5 | -11.8 | 1.45 V | 209 | 52.5 | -20.8 |
| 3 | 268.99 | 23.8 QP | 46.0 | -22.2 | 1.12 V | 214 | 41.9 | -18.1 |
| 4 | 405.71 | 24.0 QP | 46.0 | -22.0 | 1.45 V | 331 | 38.6 | -14.6 |
| 5 | 596.81 | 22.1 QP | 46.0 | -23.9 | 1.05 V | 100 | 32.5 | -10.4 |
| 6 | 767.60 | 22.6 QP | 46.0 | -23.4 | 1.45 V | 197 | 30.4 | -7.8 |

Remarks:

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



7.9 Unwanted Emissions above 1 GHz

| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 36 : 5180 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 63.2 PK | 74.0 | -10.8 | 1.00 H | 115 | 51.1 | 12.1 |
| 2 | 5150.00 | 50.5 AV | 54.0 | -3.5 | 1.00 H | 115 | 38.4 | 12.1 |
| 3 | *5180.00 | 108.5 PK | | | 1.00 H | 115 | 65.7 | 42.8 |
| 4 | *5180.00 | 100.4 AV | | | 1.00 H | 115 | 57.6 | 42.8 |
| 5 | #10360.00 | 56.5 PK | 68.2 | -11.7 | 1.14 H | 177 | 38.8 | 17.7 |
| 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 | 5150.00 | 63.8 PK | 74.0 | -10.2 | 1.03 V | 52 | 51.7 | 12.1 |
| 2 | 5150.00 | 48.9 AV | 54.0 | -5.1 | 1.03 V | 52 | 36.8 | 12.1 |
| 3 | *5180.00 | 104.3 PK | | | 1.03 V | 52 | 61.5 | 42.8 |
| 4 | *5180.00 | 96.7 AV | | | 1.03 V | 52 | 53.9 | 42.8 |
| 5 | #10360.00 | 56.4 PK | 68.2 | -11.8 | 1.37 V | 224 | 38.7 | 17.7 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 40 : 5200 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5200.00 | 108.1 PK | | | 1.00 H | 115 | 65.3 | 42.8 |
| 2 | *5200.00 | 100.0 AV | | | 1.00 H | 115 | 57.2 | 42.8 |
| 3 | #10400.00 | 56.6 PK | 68.2 | -11.6 | 1.39 H | 1 | 39.1 | 17.5 |
| 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 | *5200.00 | 104.2 PK | | | 1.03 V | 52 | 61.4 | 42.8 |
| 2 | *5200.00 | 96.4 AV | | | 1.03 V | 52 | 53.6 | 42.8 |
| 3 | #10400.00 | 56.5 PK | 68.2 | -11.7 | 1.37 V | 145 | 39.0 | 17.5 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 48 : 5240 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5240.00 | 108.1 PK | | | 1.00 H | 115 | 65.1 | 43.0 |
| 2 | *5240.00 | 100.2 AV | | | 1.00 H | 115 | 57.2 | 43.0 |
| 3 | 5350.00 | 54.3 PK | 74.0 | -19.7 | 1.00 H | 115 | 42.0 | 12.3 |
| 4 | 5350.00 | 45.2 AV | 54.0 | -8.8 | 1.00 H | 115 | 32.9 | 12.3 |
| 5 | #10480.00 | 56.4 PK | 68.2 | -11.8 | 1.75 H | 145 | 38.7 | 17.7 |

| 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 | *5240.00 | 104.8 PK | | | 1.03 V | 52 | 61.8 | 43.0 |
| 2 | *5240.00 | 96.4 AV | | | 1.03 V | 52 | 53.4 | 43.0 |
| 3 | 5350.00 | 54.0 PK | 74.0 | -20.0 | 1.03 V | 52 | 41.7 | 12.3 |
| 4 | 5350.00 | 45.4 AV | 54.0 | -8.6 | 1.03 V | 52 | 33.1 | 12.3 |
| 5 | #10480.00 | 56.3 PK | 68.2 | -11.9 | 1.66 V | 277 | 38.6 | 17.7 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 36 : 5180 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 65.8 PK | 74.0 | -8.2 | 1.00 H | 115 | 53.7 | 12.1 |
| 2 | 5150.00 | 50.2 AV | 54.0 | -3.8 | 1.00 H | 115 | 38.1 | 12.1 |
| 3 | *5180.00 | 107.6 PK | | | 1.00 H | 115 | 64.8 | 42.8 |
| 4 | *5180.00 | 99.8 AV | | | 1.00 H | 115 | 57.0 | 42.8 |
| 5 | #10360.00 | 56.6 PK | 68.2 | -11.6 | 1.37 H | 117 | 38.9 | 17.7 |

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 | 5150.00 | 59.3 PK | 74.0 | -14.7 | 1.03 V | 52 | 47.2 | 12.1 |
| 2 | 5150.00 | 46.4 AV | 54.0 | -7.6 | 1.03 V | 52 | 34.3 | 12.1 |
| 3 | *5180.00 | 103.4 PK | | | 1.03 V | 52 | 60.6 | 42.8 |
| 4 | *5180.00 | 95.7 AV | | | 1.03 V | 52 | 52.9 | 42.8 |
| 5 | #10360.00 | 56.3 PK | 68.2 | -11.9 | 1.17 V | 241 | 38.6 | 17.7 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 40 : 5200 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5200.00 | 105.9 PK | | | 1.00 H | 115 | 63.0 | 42.9 |
| 2 | *5200.00 | 98.1 AV | | | 1.00 H | 115 | 55.2 | 42.9 |
| 3 | #10400.00 | 56.6 PK | 68.2 | -11.6 | 1.99 H | 185 | 39.1 | 17.5 |
| 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 | *5200.00 | 102.3 PK | | | 1.03 V | 52 | 59.5 | 42.8 |
| 2 | *5200.00 | 95.4 AV | | | 1.03 V | 52 | 52.6 | 42.8 |
| 3 | #10400.00 | 56.3 PK | 68.2 | -11.9 | 1.39 V | 229 | 38.8 | 17.5 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 48 : 5240 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5240.00 | 105.9 PK | | | 1.00 H | 115 | 62.9 | 43.0 |
| 2 | *5240.00 | 98.0 AV | | | 1.00 H | 115 | 55.0 | 43.0 |
| 3 | 5350.00 | 54.3 PK | 74.0 | -19.7 | 1.00 H | 115 | 42.0 | 12.3 |
| 4 | 5350.00 | 45.3 AV | 54.0 | -8.7 | 1.00 H | 115 | 33.0 | 12.3 |
| 5 | #10480.00 | 56.6 PK | 68.2 | -11.6 | 1.36 H | 6 | 38.9 | 17.7 |

| 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 | *5240.00 | 102.1 PK | | | 1.03 V | 52 | 59.1 | 43.0 |
| 2 | *5240.00 | 94.0 AV | | | 1.03 V | 52 | 51.0 | 43.0 |
| 3 | 5350.00 | 53.9 PK | 74.0 | -20.1 | 1.03 V | 52 | 41.6 | 12.3 |
| 4 | 5350.00 | 45.0 AV | 54.0 | -9.0 | 1.03 V | 52 | 32.7 | 12.3 |
| 5 | #10480.00 | 56.4 PK | 68.2 | -11.8 | 1.75 V | 197 | 38.7 | 17.7 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 38 : 5190 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 62.3 PK | 74.0 | -11.7 | 1.00 H | 115 | 50.2 | 12.1 |
| 2 | 5150.00 | 46.0 AV | 54.0 | -8.0 | 1.00 H | 115 | 33.9 | 12.1 |
| 3 | *5190.00 | 102.8 PK | | | 1.00 H | 115 | 60.0 | 42.8 |
| 4 | *5190.00 | 94.4 AV | | | 1.00 H | 115 | 51.6 | 42.8 |
| 5 | 5350.00 | 54.3 PK | 74.0 | -19.7 | 1.00 H | 115 | 42.0 | 12.3 |
| 6 | 5350.00 | 45.2 AV | 54.0 | -8.8 | 1.00 H | 115 | 32.9 | 12.3 |
| 7 | #10380.00 | 56.6 PK | 68.2 | -11.6 | 1.78 H | 44 | 39.0 | 17.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 58.2 PK | 74.0 | -15.8 | 1.03 V | 52 | 46.1 | 12.1 |
| 2 | 5150.00 | 45.1 AV | 54.0 | -8.9 | 1.03 V | 52 | 33.0 | 12.1 |
| 3 | *5190.00 | 99.8 PK | | | 1.03 V | 52 | 57.0 | 42.8 |
| 4 | *5190.00 | 91.7 AV | | | 1.03 V | 52 | 48.9 | 42.8 |
| 5 | 5350.00 | 54.2 PK | 74.0 | -19.8 | 1.03 V | 52 | 41.9 | 12.3 |
| 6 | 5350.00 | 45.4 AV | 54.0 | -8.6 | 1.03 V | 52 | 33.1 | 12.3 |
| 7 | #10380.00 | 56.5 PK | 68.2 | -11.7 | 1.67 V | 185 | 38.9 | 17.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 46 : 5230 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 54.4 PK | 74.0 | -19.6 | 1.00 H | 115 | 42.3 | 12.1 |
| 2 | 5150.00 | 45.2 AV | 54.0 | -8.8 | 1.00 H | 115 | 33.1 | 12.1 |
| 3 | *5230.00 | 102.5 PK | | | 1.00 H | 115 | 59.6 | 42.9 |
| 4 | *5230.00 | 94.7 AV | | | 1.00 H | 115 | 51.8 | 42.9 |
| 5 | 5350.00 | 54.6 PK | 74.0 | -19.4 | 1.00 H | 115 | 42.3 | 12.3 |
| 6 | 5350.00 | 45.6 AV | 54.0 | -8.4 | 1.00 H | 115 | 33.3 | 12.3 |
| 7 | #10460.00 | 56.7 PK | 68.2 | -11.5 | 1.35 H | 119 | 39.0 | 17.7 |
| 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 | 5150.00 | 54.4 PK | 74.0 | -19.6 | 1.03 V | 52 | 42.3 | 12.1 |
| 2 | 5150.00 | 45.1 AV | 54.0 | -8.9 | 1.03 V | 52 | 33.0 | 12.1 |
| 3 | *5230.00 | 99.2 PK | | | 1.03 V | 52 | 56.3 | 42.9 |
| 4 | *5230.00 | 91.1 AV | | | 1.03 V | 52 | 48.2 | 42.9 |
| 5 | 5350.00 | 55.0 PK | 74.0 | -19.0 | 1.03 V | 52 | 42.7 | 12.3 |
| 6 | 5350.00 | 45.3 AV | 54.0 | -8.7 | 1.03 V | 52 | 33.0 | 12.3 |
| 7 | #10460.00 | 55.9 PK | 68.2 | -12.3 | 1.78 V | 44 | 38.2 | 17.7 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT80) | Channel | CH 42 : 5210 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 66.9 PK | 74.0 | -7.1 | 1.00 H | 115 | 54.8 | 12.1 |
| 2 | 5150.00 | 51.0 AV | 54.0 | -3.0 | 1.00 H | 115 | 38.9 | 12.1 |
| 3 | *5210.00 | 100.5 PK | | | 1.00 H | 115 | 57.6 | 42.9 |
| 4 | *5210.00 | 92.8 AV | | | 1.00 H | 115 | 49.9 | 42.9 |
| 5 | 5350.00 | 56.1 PK | 74.0 | -17.9 | 1.00 H | 115 | 43.8 | 12.3 |
| 6 | 5350.00 | 45.8 AV | 54.0 | -8.2 | 1.00 H | 115 | 33.5 | 12.3 |
| 7 | #10420.00 | 56.6 PK | 68.2 | -11.6 | 1.15 H | 241 | 39.0 | 17.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 65.0 PK | 74.0 | -9.0 | 1.03 V | 52 | 52.9 | 12.1 |
| 2 | 5150.00 | 48.5 AV | 54.0 | -5.5 | 1.03 V | 52 | 36.4 | 12.1 |
| 3 | *5210.00 | 96.4 PK | | | 1.03 V | 52 | 53.5 | 42.9 |
| 4 | *5210.00 | 88.8 AV | | | 1.03 V | 52 | 45.9 | 42.9 |
| 5 | 5350.00 | 55.5 PK | 74.0 | -18.5 | 1.03 V | 52 | 43.2 | 12.3 |
| 6 | 5350.00 | 45.3 AV | 54.0 | -8.7 | 1.03 V | 52 | 33.0 | 12.3 |
| 7 | #10420.00 | 55.9 PK | 68.2 | -12.3 | 1.35 V | 55 | 38.3 | 17.6 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 52 : 5260 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 56.0 PK | 74.0 | -18.0 | 1.00 H | 118 | 43.9 | 12.1 |
| 2 | 5150.00 | 45.5 AV | 54.0 | -8.5 | 1.00 H | 118 | 33.4 | 12.1 |
| 3 | *5260.00 | 111.0 PK | | | 1.00 H | 118 | 68.1 | 42.9 |
| 4 | *5260.00 | 102.2 AV | | | 1.00 H | 118 | 59.3 | 42.9 |
| 5 | #10520.00 | 56.7 PK | 68.2 | -11.5 | 1.42 H | 192 | 38.9 | 17.8 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 55.1 PK | 74.0 | -18.9 | 1.05 V | 72 | 43.0 | 12.1 |
| 2 | 5150.00 | 44.7 AV | 54.0 | -9.3 | 1.05 V | 72 | 32.6 | 12.1 |
| 3 | *5260.00 | 107.3 PK | | | 1.05 V | 72 | 64.4 | 42.9 |
| 4 | *5260.00 | 98.8 AV | | | 1.05 V | 72 | 55.9 | 42.9 |
| 5 | #10520.00 | 56.0 PK | 68.2 | -12.2 | 1.26 V | 242 | 38.2 | 17.8 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 60 : 5300 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *5300.00 | 110.9 PK | | | 1.00 H | 123 | 67.9 | 43.0 |
| 2 | *5300.00 | 102.1 AV | | | 1.00 H | 123 | 59.1 | 43.0 |
| 3 | 10600.00 | 56.2 PK | 74.0 | -17.8 | 2.16 H | 115 | 38.5 | 17.7 |
| 4 | 10600.00 | 46.8 AV | 54.0 | -7.2 | 2.16 H | 115 | 29.1 | 17.7 |

| 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 | *5300.00 | 107.1 PK | | | 1.05 V | 83 | 64.1 | 43.0 |
| 2 | *5300.00 | 98.6 AV | | | 1.05 V | 83 | 55.6 | 43.0 |
| 3 | 10600.00 | 56.0 PK | 74.0 | -18.0 | 1.51 V | 274 | 38.3 | 17.7 |
| 4 | 10600.00 | 46.4 AV | 54.0 | -7.6 | 1.51 V | 274 | 28.7 | 17.7 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 64 : 5320 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5320.00 | 110.6 PK | | | 1.07 H | 124 | 67.6 | 43.0 |
| 2 | *5320.00 | 101.6 AV | | | 1.07 H | 124 | 58.6 | 43.0 |
| 3 | 5350.00 | 69.1 PK | 74.0 | -4.9 | 1.07 H | 124 | 56.8 | 12.3 |
| 4 | 5350.00 | 49.7 AV | 54.0 | -4.3 | 1.07 H | 124 | 37.4 | 12.3 |
| 5 | 10640.00 | 56.3 PK | 74.0 | -17.7 | 1.65 H | 210 | 38.5 | 17.8 |
| 6 | 10640.00 | 46.7 AV | 54.0 | -7.3 | 1.65 H | 210 | 28.9 | 17.8 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5320.00 | 106.9 PK | | | 1.07 V | 64 | 63.9 | 43.0 |
| 2 | *5320.00 | 98.2 AV | | | 1.07 V | 64 | 55.2 | 43.0 |
| 3 | 5350.00 | 63.4 PK | 74.0 | -10.6 | N/A V | N/A | 51.1 | 12.3 |
| 4 | 5350.00 | 46.6 AV | 54.0 | -7.4 | N/A V | N/A | 34.3 | 12.3 |
| 5 | 10640.00 | 56.5 PK | 74.0 | -17.5 | 1.38 V | 131 | 38.7 | 17.8 |
| 6 | 10640.00 | 46.9 AV | 54.0 | -7.1 | 1.38 V | 131 | 29.1 | 17.8 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 52 : 5260 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 54.7 PK | 74.0 | -19.3 | 1.00 H | 118 | 42.6 | 12.1 |
| 2 | 5150.00 | 45.0 AV | 54.0 | -9.0 | 1.00 H | 118 | 32.9 | 12.1 |
| 3 | *5260.00 | 110.1 PK | | | 1.00 H | 118 | 67.2 | 42.9 |
| 4 | *5260.00 | 101.1 AV | | | 1.00 H | 118 | 58.2 | 42.9 |
| 5 | #10520.00 | 56.2 PK | 68.2 | -12.0 | 1.06 H | 240 | 38.4 | 17.8 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 55.2 PK | 74.0 | -18.8 | 1.05 V | 72 | 43.1 | 12.1 |
| 2 | 5150.00 | 44.4 AV | 54.0 | -9.6 | 1.05 V | 72 | 32.3 | 12.1 |
| 3 | *5260.00 | 106.3 PK | | | 1.05 V | 72 | 63.4 | 42.9 |
| 4 | *5260.00 | 97.6 AV | | | 1.05 V | 72 | 54.7 | 42.9 |
| 5 | #10520.00 | 56.0 PK | 68.2 | -12.2 | 1.26 V | 49 | 38.2 | 17.8 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 60 : 5300 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *5300.00 | 111.5 PK | | | 1.00 H | 123 | 68.5 | 43.0 |
| 2 | *5300.00 | 102.5 AV | | | 1.00 H | 123 | 59.5 | 43.0 |
| 3 | 10600.00 | 55.8 PK | 74.0 | -18.2 | 1.72 H | 206 | 38.1 | 17.7 |
| 4 | 10600.00 | 46.3 AV | 54.0 | -7.7 | 1.72 H | 206 | 28.6 | 17.7 |

| 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 | *5300.00 | 104.2 PK | | | 1.05 V | 83 | 61.2 | 43.0 |
| 2 | *5300.00 | 97.5 AV | | | 1.05 V | 83 | 54.5 | 43.0 |
| 3 | 10600.00 | 56.3 PK | 74.0 | -17.7 | 1.66 V | 274 | 38.6 | 17.7 |
| 4 | 10600.00 | 46.2 AV | 54.0 | -7.8 | 1.66 V | 274 | 28.5 | 17.7 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 64 : 5320 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5320.00 | 109.0 PK | | | 1.07 H | 124 | 66.0 | 43.0 |
| 2 | *5320.00 | 100.4 AV | | | 1.07 H | 124 | 57.4 | 43.0 |
| 3 | 5350.00 | 67.2 PK | 74.0 | -6.8 | 1.07 H | 124 | 54.9 | 12.3 |
| 4 | 5350.00 | 50.9 AV | 54.0 | -3.1 | 1.07 H | 124 | 38.6 | 12.3 |
| 5 | 10640.00 | 56.0 PK | 74.0 | -18.0 | 2.53 H | 104 | 38.2 | 17.8 |
| 6 | 10640.00 | 46.4 AV | 54.0 | -7.6 | 2.53 H | 104 | 28.6 | 17.8 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5320.00 | 105.9 PK | | | 1.07 V | 64 | 62.9 | 43.0 |
| 2 | *5320.00 | 97.0 AV | | | 1.07 V | 64 | 54.0 | 43.0 |
| 3 | 5350.00 | 63.7 PK | 74.0 | -10.3 | 1.07 V | 64 | 51.4 | 12.3 |
| 4 | 5350.00 | 48.0 AV | 54.0 | -6.0 | 1.07 V | 64 | 35.7 | 12.3 |
| 5 | 10640.00 | 55.7 PK | 74.0 | -18.3 | 1.42 V | 227 | 37.9 | 17.8 |
| 6 | 10640.00 | 46.1 AV | 54.0 | -7.9 | 1.42 V | 227 | 28.3 | 17.8 |

Remarks:

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

| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 54 : 5270 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 54.8 PK | 74.0 | -19.2 | 1.00 H | 118 | 42.7 | 12.1 |
| 2 | 5150.00 | 44.4 AV | 54.0 | -9.6 | 1.00 H | 118 | 32.3 | 12.1 |
| 3 | *5270.00 | 106.0 PK | | | 1.00 H | 118 | 63.1 | 42.9 |
| 4 | *5270.00 | 97.0 AV | | | 1.00 H | 118 | 54.1 | 42.9 |
| 5 | 5350.00 | 55.7 PK | 74.0 | -18.3 | 1.00 H | 118 | 43.4 | 12.3 |
| 6 | 5350.00 | 45.9 AV | 54.0 | -8.1 | 1.00 H | 118 | 33.6 | 12.3 |
| 7 | #10540.00 | 56.4 PK | 68.2 | -11.8 | 1.18 H | 54 | 38.6 | 17.8 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 54.6 PK | 74.0 | -19.4 | 1.05 V | 74 | 42.5 | 12.1 |
| 2 | 5150.00 | 44.2 AV | 54.0 | -9.8 | 1.05 V | 74 | 32.1 | 12.1 |
| 3 | *5270.00 | 102.8 PK | | | 1.05 V | 74 | 59.9 | 42.9 |
| 4 | *5270.00 | 93.6 AV | | | 1.05 V | 74 | 50.7 | 42.9 |
| 5 | 5350.00 | 54.9 PK | 74.0 | -19.1 | 1.05 V | 74 | 42.6 | 12.3 |
| 6 | 5350.00 | 45.7 AV | 54.0 | -8.3 | 1.05 V | 74 | 33.4 | 12.3 |
| 7 | #10540.00 | 55.8 PK | 68.2 | -12.4 | 1.55 V | 196 | 38.0 | 17.8 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 62 : 5310 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 55.4 PK | 74.0 | -18.6 | 1.07 H | 124 | 43.3 | 12.1 |
| 2 | 5150.00 | 44.0 AV | 54.0 | -10.0 | 1.07 H | 124 | 31.9 | 12.1 |
| 3 | *5310.00 | 102.2 PK | | | 1.07 H | 124 | 59.2 | 43.0 |
| 4 | *5310.00 | 94.7 AV | | | 1.07 H | 124 | 51.7 | 43.0 |
| 5 | 5350.00 | 62.3 PK | 74.0 | -11.7 | 1.07 H | 124 | 50.0 | 12.3 |
| 6 | 5350.00 | 47.3 AV | 54.0 | -6.7 | 1.07 H | 124 | 35.0 | 12.3 |
| 7 | 10620.00 | 56.0 PK | 74.0 | -18.0 | 1.14 H | 81 | 38.3 | 17.7 |
| 8 | 10620.00 | 46.6 AV | 54.0 | -7.4 | 1.14 H | 81 | 28.9 | 17.7 |

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 | 5150.00 | 54.2 PK | 74.0 | -19.8 | 1.07 V | 59 | 42.1 | 12.1 |
| 2 | 5150.00 | 43.9 AV | 54.0 | -10.1 | 1.07 V | 59 | 31.8 | 12.1 |
| 3 | *5310.00 | 100.0 PK | | | 1.07 V | 59 | 57.0 | 43.0 |
| 4 | *5310.00 | 92.4 AV | | | 1.07 V | 59 | 49.4 | 43.0 |
| 5 | 5350.00 | 59.9 PK | 74.0 | -14.1 | 1.07 V | 59 | 47.6 | 12.3 |
| 6 | 5350.00 | 46.1 AV | 54.0 | -7.9 | 1.07 V | 59 | 33.8 | 12.3 |
| 7 | 10620.00 | 55.9 PK | 74.0 | -18.1 | 2.26 V | 149 | 38.2 | 17.7 |
| 8 | 10620.00 | 46.3 AV | 54.0 | -7.7 | 2.26 V | 149 | 28.6 | 17.7 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT80) | Channel | CH 58 : 5290 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 54.6 PK | 74.0 | -19.4 | 1.00 H | 118 | 42.5 | 12.1 |
| 2 | 5150.00 | 43.0 AV | 54.0 | -11.0 | 1.00 H | 118 | 30.9 | 12.1 |
| 3 | *5290.00 | 100.8 PK | | | 1.00 H | 118 | 57.8 | 43.0 |
| 4 | *5290.00 | 92.3 AV | | | 1.00 H | 118 | 49.3 | 43.0 |
| 5 | 5350.00 | 62.5 PK | 74.0 | -11.5 | 1.00 H | 118 | 50.2 | 12.3 |
| 6 | 5350.00 | 47.4 AV | 54.0 | -6.6 | 1.00 H | 118 | 35.1 | 12.3 |
| 7 | #10580.00 | 56.1 PK | 68.2 | -12.1 | 1.29 H | 247 | 38.4 | 17.7 |

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 | 5150.00 | 54.5 PK | 74.0 | -19.5 | 1.00 V | 134 | 42.4 | 12.1 |
| 2 | 5150.00 | 43.1 AV | 54.0 | -10.9 | 1.00 V | 134 | 31.0 | 12.1 |
| 3 | *5290.00 | 97.4 PK | | | 1.14 V | 71 | 54.4 | 43.0 |
| 4 | *5290.00 | 89.7 AV | | | 1.14 V | 71 | 46.7 | 43.0 |
| 5 | 5350.00 | 58.7 PK | 74.0 | -15.3 | 1.14 V | 71 | 46.4 | 12.3 |
| 6 | 5350.00 | 46.3 AV | 54.0 | -7.7 | 1.14 V | 71 | 34.0 | 12.3 |
| 7 | #10580.00 | 56.3 PK | 68.2 | -11.9 | 1.63 V | 138 | 38.6 | 17.7 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 100 : 5500 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5460.00 | 58.5 PK | 74.0 | -15.5 | 1.00 H | 124 | 45.8 | 12.7 |
| 2 | 5460.00 | 48.2 AV | 54.0 | -5.8 | 1.00 H | 124 | 35.5 | 12.7 |
| 3 | #5470.00 | 62.8 PK | 68.2 | -5.4 | 1.00 H | 124 | 50.1 | 12.7 |
| 4 | *5500.00 | 105.9 PK | | | 1.00 H | 124 | 62.7 | 43.2 |
| 5 | *5500.00 | 97.8 AV | | | 1.00 H | 124 | 54.6 | 43.2 |
| 6 | 11000.00 | 57.9 PK | 74.0 | -16.1 | 1.54 H | 181 | 39.8 | 18.1 |
| 7 | 11000.00 | 48.1 AV | 54.0 | -5.9 | 1.54 H | 181 | 30.0 | 18.1 |
| 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 | 5460.00 | 55.5 PK | 74.0 | -18.5 | 1.00 V | 61 | 42.8 | 12.7 |
| 2 | 5460.00 | 46.2 AV | 54.0 | -7.8 | 1.00 V | 61 | 33.5 | 12.7 |
| 3 | #5470.00 | 57.8 PK | 68.2 | -10.4 | 1.00 V | 61 | 45.1 | 12.7 |
| 4 | *5500.00 | 102.1 PK | | | 1.00 V | 61 | 58.9 | 43.2 |
| 5 | *5500.00 | 94.2 AV | | | 1.00 V | 61 | 51.0 | 43.2 |
| 6 | 11000.00 | 57.5 PK | 74.0 | -16.5 | 1.67 V | 250 | 39.4 | 18.1 |
| 7 | 11000.00 | 48.0 AV | 54.0 | -6.0 | 1.67 V | 250 | 29.9 | 18.1 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 116 : 5580 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5580.00 | 107.5 PK | | | 1.00 H | 124 | 64.1 | 43.4 |
| 2 | *5580.00 | 99.6 AV | | | 1.00 H | 124 | 56.2 | 43.4 |
| 3 | 11160.00 | 58.1 PK | 74.0 | -15.9 | 1.92 H | 333 | 40.0 | 18.1 |
| 4 | 11160.00 | 48.2 AV | 54.0 | -5.8 | 1.92 H | 333 | 30.1 | 18.1 |

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 | *5580.00 | 104.9 PK | | | 1.00 V | 61 | 61.5 | 43.4 |
| 2 | *5580.00 | 96.8 AV | | | 1.00 V | 61 | 53.4 | 43.4 |
| 3 | 11160.00 | 57.7 PK | 74.0 | -16.3 | 1.67 V | 119 | 39.6 | 18.1 |
| 4 | 11160.00 | 47.9 AV | 54.0 | -6.1 | 1.67 V | 119 | 29.8 | 18.1 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 140 : 5700 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *5700.00 | 106.9 PK | | | 1.00 H | 124 | 63.5 | 43.4 |
| 2 | *5700.00 | 98.8 AV | | | 1.00 H | 124 | 55.4 | 43.4 |
| 3 | #5725.00 | 66.1 PK | 68.2 | -2.1 | 1.00 H | 124 | 53.3 | 12.8 |
| 4 | 11400.00 | 57.9 PK | 74.0 | -16.1 | 1.05 H | 100 | 39.3 | 18.6 |
| 5 | 11400.00 | 48.2 AV | 54.0 | -5.8 | 1.05 H | 100 | 29.6 | 18.6 |
| 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 | *5700.00 | 102.5 PK | | | 1.00 V | 61 | 59.1 | 43.4 |
| 2 | *5700.00 | 94.8 AV | | | 1.00 V | 61 | 51.4 | 43.4 |
| 3 | #5725.00 | 61.7 PK | 68.2 | -6.5 | 1.00 V | 61 | 48.9 | 12.8 |
| 4 | 11400.00 | 57.7 PK | 74.0 | -16.3 | 1.68 V | 211 | 39.1 | 18.6 |
| 5 | 11400.00 | 47.6 AV | 54.0 | -6.4 | 1.68 V | 211 | 29.0 | 18.6 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 144 : 5720 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5460.00 | 54.7 PK | 74.0 | -19.3 | 1.01 H | 122 | 42.0 | 12.7 |
| 2 | 5460.00 | 43.9 AV | 54.0 | -10.1 | 1.01 H | 122 | 31.2 | 12.7 |
| 3 | #5470.00 | 54.5 PK | 68.2 | -13.7 | 1.01 H | 122 | 41.8 | 12.7 |
| 4 | *5720.00 | 108.4 PK | | | 1.01 H | 122 | 64.8 | 43.6 |
| 5 | *5720.00 | 101.1 AV | | | 1.01 H | 122 | 57.5 | 43.6 |
| 6 | 11440.00 | 56.8 PK | 74.0 | -17.2 | 1.64 H | 35 | 38.2 | 18.6 |
| 7 | 11440.00 | 47.3 AV | 54.0 | -6.7 | 1.64 H | 35 | 28.7 | 18.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5460.00 | 54.9 PK | 74.0 | -19.1 | 1.04 V | 59 | 42.2 | 12.7 |
| 2 | 5460.00 | 43.9 AV | 54.0 | -10.1 | 1.04 V | 59 | 31.2 | 12.7 |
| 3 | #5470.00 | 55.6 PK | 68.2 | -12.6 | 1.04 V | 59 | 42.9 | 12.7 |
| 4 | *5720.00 | 104.0 PK | | | 1.04 V | 59 | 60.4 | 43.6 |
| 5 | *5720.00 | 96.9 AV | | | 1.04 V | 59 | 53.3 | 43.6 |
| 6 | 11440.00 | 57.2 PK | 74.0 | -16.8 | 1.92 V | 114 | 38.6 | 18.6 |
| 7 | 11440.00 | 47.4 AV | 54.0 | -6.6 | 1.92 V | 114 | 28.8 | 18.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 100 : 5500 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 56.3 PK | 74.0 | -17.7 | 1.00 H | 124 | 43.6 | 12.7 |
| 2 | 5460.00 | 47.8 AV | 54.0 | -6.2 | 1.00 H | 124 | 35.1 | 12.7 |
| 3 | #5470.00 | 60.2 PK | 68.2 | -8.0 | 1.00 H | 124 | 47.5 | 12.7 |
| 4 | *5500.00 | 104.7 PK | | | 1.00 H | 124 | 61.5 | 43.2 |
| 5 | *5500.00 | 96.8 AV | | | 1.00 H | 124 | 53.6 | 43.2 |
| 6 | 11000.00 | 58.0 PK | 74.0 | -16.0 | 1.95 H | 359 | 39.9 | 18.1 |
| 7 | 11000.00 | 48.0 AV | 54.0 | -6.0 | 1.95 H | 359 | 29.9 | 18.1 |

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 | 5460.00 | 55.4 PK | 74.0 | -18.6 | 1.00 V | 61 | 42.7 | 12.7 |
| 2 | 5460.00 | 46.2 AV | 54.0 | -7.8 | 1.00 V | 61 | 33.5 | 12.7 |
| 3 | #5470.00 | 57.8 PK | 68.2 | -10.4 | 1.00 V | 61 | 45.1 | 12.7 |
| 4 | *5500.00 | 101.3 PK | | | 1.00 V | 61 | 58.1 | 43.2 |
| 5 | *5500.00 | 93.8 AV | | | 1.00 V | 61 | 50.6 | 43.2 |
| 6 | 11000.00 | 57.6 PK | 74.0 | -16.4 | 1.69 V | 9 | 39.5 | 18.1 |
| 7 | 11000.00 | 47.7 AV | 54.0 | -6.3 | 1.69 V | 9 | 29.6 | 18.1 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 116 : 5580 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *5580.00 | 106.8 PK | | | 1.00 H | 124 | 63.4 | 43.4 |
| 2 | *5580.00 | 98.9 AV | | | 1.00 H | 124 | 55.5 | 43.4 |
| 3 | 11160.00 | 58.3 PK | 74.0 | -15.7 | 1.92 H | 270 | 40.2 | 18.1 |
| 4 | 11160.00 | 48.3 AV | 54.0 | -5.7 | 1.92 H | 270 | 30.2 | 18.1 |

| 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 | *5580.00 | 104.3 PK | | | 1.00 V | 61 | 60.9 | 43.4 |
| 2 | *5580.00 | 96.2 AV | | | 1.00 V | 61 | 52.8 | 43.4 |
| 3 | 11160.00 | 58.1 PK | 74.0 | -15.9 | 1.63 V | 328 | 40.0 | 18.1 |
| 4 | 11160.00 | 48.2 AV | 54.0 | -5.8 | 1.63 V | 328 | 30.1 | 18.1 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 140 : 5700 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5700.00 | 104.4 PK | | | 1.00 H | 124 | 61.0 | 43.4 |
| 2 | *5700.00 | 96.7 AV | | | 1.00 H | 124 | 53.3 | 43.4 |
| 3 | #5725.00 | 66.1 PK | 68.2 | -2.1 | 1.00 H | 61 | 53.3 | 12.8 |
| 4 | 11400.00 | 57.6 PK | 74.0 | -16.4 | 1.64 H | 186 | 39.0 | 18.6 |
| 5 | 11400.00 | 47.5 AV | 54.0 | -6.5 | 1.64 H | 186 | 28.9 | 18.6 |

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 | *5700.00 | 100.4 PK | | | 1.00 V | 61 | 57.0 | 43.4 |
| 2 | *5700.00 | 92.4 AV | | | 1.00 V | 61 | 49.0 | 43.4 |
| 3 | #5725.00 | 60.2 PK | 68.2 | -8.0 | 1.00 V | 61 | 47.4 | 12.8 |
| 4 | 11400.00 | 57.4 PK | 74.0 | -16.6 | 1.05 V | 200 | 38.8 | 18.6 |
| 5 | 11400.00 | 47.5 AV | 54.0 | -6.5 | 1.05 V | 200 | 28.9 | 18.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 144 : 5720 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 54.2 PK | 74.0 | -19.8 | 1.01 H | 122 | 41.5 | 12.7 |
| 2 | 5460.00 | 43.9 AV | 54.0 | -10.1 | 1.01 H | 122 | 31.2 | 12.7 |
| 3 | #5470.00 | 54.8 PK | 68.2 | -13.4 | 1.01 H | 122 | 42.1 | 12.7 |
| 4 | *5720.00 | 107.5 PK | | | 1.01 H | 122 | 63.9 | 43.6 |
| 5 | *5720.00 | 99.9 AV | | | 1.01 H | 122 | 56.3 | 43.6 |
| 6 | 11440.00 | 57.1 PK | 74.0 | -16.9 | 2.09 H | 143 | 38.5 | 18.6 |
| 7 | 11440.00 | 47.4 AV | 54.0 | -6.6 | 2.09 H | 143 | 28.8 | 18.6 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 54.7 PK | 74.0 | -19.3 | 1.04 V | 59 | 42.0 | 12.7 |
| 2 | 5460.00 | 43.8 AV | 54.0 | -10.2 | 1.04 V | 59 | 31.1 | 12.7 |
| 3 | #5470.00 | 54.9 PK | 68.2 | -13.3 | 1.04 V | 59 | 42.2 | 12.7 |
| 4 | *5720.00 | 103.2 PK | | | 1.04 V | 59 | 59.6 | 43.6 |
| 5 | *5720.00 | 96.0 AV | | | 1.04 V | 59 | 52.4 | 43.6 |
| 6 | 11440.00 | 57.6 PK | 74.0 | -16.4 | 2.51 V | 162 | 39.0 | 18.6 |
| 7 | 11440.00 | 47.8 AV | 54.0 | -6.2 | 2.51 V | 162 | 29.2 | 18.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 102 : 5510 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 56.7 PK | 74.0 | -17.3 | 1.00 H | 124 | 44.0 | 12.7 |
| 2 | 5460.00 | 46.0 AV | 54.0 | -8.0 | 1.00 H | 124 | 33.3 | 12.7 |
| 3 | #5470.00 | 61.6 PK | 68.2 | -6.6 | 1.00 H | 124 | 48.9 | 12.7 |
| 4 | *5510.00 | 101.4 PK | | | 1.00 H | 124 | 58.0 | 43.4 |
| 5 | *5510.00 | 93.2 AV | | | 1.00 H | 124 | 49.8 | 43.4 |
| 6 | #5725.00 | 56.4 PK | 68.2 | -11.8 | 1.00 H | 124 | 43.6 | 12.8 |
| 7 | 11020.00 | 57.8 PK | 74.0 | -16.2 | 1.95 H | 199 | 39.7 | 18.1 |
| 8 | 11020.00 | 47.9 AV | 54.0 | -6.1 | 1.95 H | 199 | 29.8 | 18.1 |

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 | 5460.00 | 56.2 PK | 74.0 | -17.8 | 1.00 V | 61 | 43.5 | 12.7 |
| 2 | 5460.00 | 46.0 AV | 54.0 | -8.0 | 1.00 V | 61 | 33.3 | 12.7 |
| 3 | #5470.00 | 58.1 PK | 68.2 | -10.1 | 1.00 V | 61 | 45.4 | 12.7 |
| 4 | *5510.00 | 97.4 PK | | | 1.00 V | 61 | 54.0 | 43.4 |
| 5 | *5510.00 | 89.1 AV | | | 1.00 V | 61 | 45.7 | 43.4 |
| 6 | #5725.00 | 55.7 PK | 68.2 | -12.5 | 1.00 V | 61 | 42.9 | 12.8 |
| 7 | 11020.00 | 57.6 PK | 74.0 | -16.4 | 1.75 V | 4 | 39.5 | 18.1 |
| 8 | 11020.00 | 47.5 AV | 54.0 | -6.5 | 1.75 V | 4 | 29.4 | 18.1 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 110 : 5550 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

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 | *5550.00 | 102.5 PK | | | 1.00 H | 124 | 59.1 | 43.4 |
| 2 | *5550.00 | 94.8 AV | | | 1.00 H | 124 | 51.4 | 43.4 |
| 3 | 11100.00 | 58.2 PK | 74.0 | -15.8 | 1.63 H | 333 | 39.6 | 18.6 |
| 4 | 11100.00 | 48.3 AV | 54.0 | -5.7 | 1.63 H | 333 | 29.7 | 18.6 |

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 | *5550.00 | 99.7 PK | | | 1.00 V | 61 | 56.3 | 43.4 |
| 2 | *5550.00 | 92.0 AV | | | 1.00 V | 61 | 48.6 | 43.4 |
| 3 | 11100.00 | 58.1 PK | 74.0 | -15.9 | 1.05 V | 203 | 39.5 | 18.6 |
| 4 | 11100.00 | 48.2 AV | 54.0 | -5.8 | 1.05 V | 203 | 29.6 | 18.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 134 : 5670 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 55.8 PK | 74.0 | -18.2 | 1.00 H | 124 | 43.1 | 12.7 |
| 2 | 5460.00 | 45.9 AV | 54.0 | -8.1 | 1.00 H | 124 | 33.2 | 12.7 |
| 3 | #5470.00 | 56.9 PK | 68.2 | -11.3 | 1.00 H | 124 | 44.2 | 12.7 |
| 4 | *5670.00 | 103.0 PK | | | 1.00 H | 124 | 59.5 | 43.5 |
| 5 | *5670.00 | 95.3 AV | | | 1.00 H | 124 | 51.8 | 43.5 |
| 6 | #5725.00 | 63.4 PK | 68.2 | -4.8 | 1.00 H | 124 | 50.6 | 12.8 |
| 7 | 11340.00 | 58.3 PK | 74.0 | -15.7 | 1.75 H | 227 | 39.9 | 18.4 |
| 8 | 11340.00 | 48.2 AV | 54.0 | -5.8 | 1.75 H | 227 | 29.8 | 18.4 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 55.5 PK | 74.0 | -18.5 | 1.00 V | 61 | 42.8 | 12.7 |
| 2 | 5460.00 | 45.4 AV | 54.0 | -8.6 | 1.00 V | 61 | 32.7 | 12.7 |
| 3 | #5470.00 | 55.7 PK | 68.2 | -12.5 | 1.00 V | 61 | 43.0 | 12.7 |
| 4 | *5670.00 | 99.5 PK | | | 1.00 V | 61 | 56.0 | 43.5 |
| 5 | *5670.00 | 91.9 AV | | | 1.00 V | 61 | 48.4 | 43.5 |
| 6 | #5725.00 | 60.4 PK | 68.2 | -7.8 | 1.00 V | 61 | 47.6 | 12.8 |
| 7 | 11340.00 | 57.8 PK | 74.0 | -16.2 | 1.96 V | 221 | 39.4 | 18.4 |
| 8 | 11340.00 | 47.9 AV | 54.0 | -6.1 | 1.96 V | 221 | 29.5 | 18.4 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 142 : 5710 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 54.5 PK | 74.0 | -19.5 | 1.00 H | 122 | 41.8 | 12.7 |
| 2 | 5460.00 | 43.8 AV | 54.0 | -10.2 | 1.00 H | 122 | 31.1 | 12.7 |
| 3 | #5470.00 | 55.2 PK | 68.2 | -13.0 | 1.00 H | 122 | 42.5 | 12.7 |
| 4 | *5710.00 | 104.4 PK | | | 1.00 H | 122 | 61.0 | 43.4 |
| 5 | *5710.00 | 96.5 AV | | | 1.00 H | 122 | 53.1 | 43.4 |
| 6 | 11420.00 | 57.3 PK | 74.0 | -16.7 | 1.28 H | 81 | 38.7 | 18.6 |
| 7 | 11420.00 | 47.5 AV | 54.0 | -6.5 | 1.28 H | 81 | 28.9 | 18.6 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 54.1 PK | 74.0 | -19.9 | 1.04 V | 54 | 41.4 | 12.7 |
| 2 | 5460.00 | 43.8 AV | 54.0 | -10.2 | 1.04 V | 54 | 31.1 | 12.7 |
| 3 | #5470.00 | 55.4 PK | 68.2 | -12.8 | 1.04 V | 54 | 42.7 | 12.7 |
| 4 | *5710.00 | 99.9 PK | | | 1.04 V | 54 | 56.5 | 43.4 |
| 5 | *5710.00 | 92.4 AV | | | 1.04 V | 54 | 49.0 | 43.4 |
| 6 | 11420.00 | 57.2 PK | 74.0 | -16.8 | 1.02 V | 282 | 38.6 | 18.6 |
| 7 | 11420.00 | 47.5 AV | 54.0 | -6.5 | 1.02 V | 282 | 28.9 | 18.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT80) | Channel | CH 106 : 5530 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 58.4 PK | 74.0 | -15.6 | 1.00 H | 124 | 45.7 | 12.7 |
| 2 | 5460.00 | 47.2 AV | 54.0 | -6.8 | 1.00 H | 124 | 34.5 | 12.7 |
| 3 | #5470.00 | 59.6 PK | 68.2 | -8.6 | 1.00 H | 124 | 46.9 | 12.7 |
| 4 | *5530.00 | 99.0 PK | | | 1.00 H | 124 | 55.6 | 43.4 |
| 5 | *5530.00 | 91.4 AV | | | 1.00 H | 124 | 48.0 | 43.4 |
| 6 | #5725.00 | 55.4 PK | 68.2 | -12.8 | 1.00 H | 124 | 42.6 | 12.8 |
| 7 | 11060.00 | 58.2 PK | 74.0 | -15.8 | 1.17 H | 183 | 39.9 | 18.3 |
| 8 | 11060.00 | 48.4 AV | 54.0 | -5.6 | 1.17 H | 183 | 30.1 | 18.3 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 56.1 PK | 74.0 | -17.9 | 1.00 V | 61 | 43.4 | 12.7 |
| 2 | 5460.00 | 46.1 AV | 54.0 | -7.9 | 1.00 V | 61 | 33.4 | 12.7 |
| 3 | #5470.00 | 56.6 PK | 68.2 | -11.6 | 1.00 V | 61 | 43.9 | 12.7 |
| 4 | *5530.00 | 95.2 PK | | | 1.00 V | 61 | 51.8 | 43.4 |
| 5 | *5530.00 | 87.5 AV | | | 1.00 V | 61 | 44.1 | 43.4 |
| 6 | #5725.00 | 55.4 PK | 68.2 | -12.8 | 1.00 V | 61 | 42.6 | 12.8 |
| 7 | 11060.00 | 58.1 PK | 74.0 | -15.9 | 1.77 V | 314 | 39.8 | 18.3 |
| 8 | 11060.00 | 48.0 AV | 54.0 | -6.0 | 1.77 V | 314 | 29.7 | 18.3 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT80) | Channel | CH 122 : 5610 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 55.8 PK | 74.0 | -18.2 | 1.00 H | 124 | 43.1 | 12.7 |
| 2 | 5460.00 | 45.9 AV | 54.0 | -8.1 | 1.00 H | 124 | 33.2 | 12.7 |
| 3 | #5470.00 | 56.1 PK | 68.2 | -12.1 | 1.00 H | 124 | 43.4 | 12.7 |
| 4 | *5610.00 | 100.8 PK | | | 1.00 H | 124 | 57.4 | 43.4 |
| 5 | *5610.00 | 92.7 AV | | | 1.00 H | 124 | 49.3 | 43.4 |
| 6 | #5725.00 | 57.0 PK | 68.2 | -11.2 | 1.00 H | 124 | 44.2 | 12.8 |
| 7 | 11220.00 | 58.5 PK | 74.0 | -15.5 | 1.92 H | 209 | 40.6 | 17.9 |
| 8 | 11220.00 | 48.5 AV | 54.0 | -5.5 | 1.92 H | 209 | 30.6 | 17.9 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 55.6 PK | 74.0 | -18.4 | 1.00 V | 61 | 42.9 | 12.7 |
| 2 | 5460.00 | 45.7 AV | 54.0 | -8.3 | 1.00 V | 61 | 33.0 | 12.7 |
| 3 | #5470.00 | 56.0 PK | 68.2 | -12.2 | 1.00 V | 61 | 43.3 | 12.7 |
| 4 | *5610.00 | 97.2 PK | | | 1.00 V | 61 | 53.8 | 43.4 |
| 5 | *5610.00 | 89.1 AV | | | 1.00 V | 61 | 45.7 | 43.4 |
| 6 | #5725.00 | 56.1 PK | 68.2 | -12.1 | 1.00 V | 61 | 43.3 | 12.8 |
| 7 | 11220.00 | 58.3 PK | 74.0 | -15.7 | 1.05 V | 179 | 40.4 | 17.9 |
| 8 | 11220.00 | 48.2 AV | 54.0 | -5.8 | 1.05 V | 179 | 30.3 | 17.9 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT80) | Channel | CH 138 : 5690 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 54.3 PK | 74.0 | -19.7 | 1.00 H | 127 | 41.6 | 12.7 |
| 2 | 5460.00 | 43.8 AV | 54.0 | -10.2 | 1.00 H | 127 | 31.1 | 12.7 |
| 3 | #5470.00 | 55.2 PK | 68.2 | -13.0 | 1.00 H | 127 | 42.5 | 12.7 |
| 4 | *5690.00 | 102.3 PK | | | 1.00 H | 127 | 58.9 | 43.4 |
| 5 | *5690.00 | 93.7 AV | | | 1.00 H | 127 | 50.3 | 43.4 |
| 6 | 11380.00 | 56.8 PK | 74.0 | -17.2 | 1.62 H | 92 | 38.3 | 18.5 |
| 7 | 11380.00 | 47.1 AV | 54.0 | -6.9 | 1.62 H | 92 | 28.6 | 18.5 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5460.00 | 54.4 PK | 74.0 | -19.6 | 1.02 V | 62 | 41.7 | 12.7 |
| 2 | 5460.00 | 43.8 AV | 54.0 | -10.2 | 1.02 V | 62 | 31.1 | 12.7 |
| 3 | #5470.00 | 54.9 PK | 68.2 | -13.3 | 1.02 V | 62 | 42.2 | 12.7 |
| 4 | *5690.00 | 98.2 PK | | | 1.02 V | 62 | 54.8 | 43.4 |
| 5 | *5690.00 | 89.8 AV | | | 1.02 V | 62 | 46.4 | 43.4 |
| 6 | 11380.00 | 57.0 PK | 74.0 | -17.0 | 2.39 V | 184 | 38.5 | 18.5 |
| 7 | 11380.00 | 47.2 AV | 54.0 | -6.8 | 2.39 V | 184 | 28.7 | 18.5 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 149 : 5745 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5745.00 | 107.7 PK | | | 1.01 H | 124 | 64.0 | 43.7 |
| 2 | *5745.00 | 99.9 AV | | | 1.01 H | 124 | 56.2 | 43.7 |
| 3 | 11490.00 | 58.1 PK | 74.0 | -15.9 | 1.93 H | 331 | 39.3 | 18.8 |
| 4 | 11490.00 | 48.3 AV | 54.0 | -5.7 | 1.93 H | 331 | 29.5 | 18.8 |

| 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 | *5745.00 | 103.7 PK | | | 1.00 V | 61 | 60.0 | 43.7 |
| 2 | *5745.00 | 96.0 AV | | | 1.00 V | 61 | 52.3 | 43.7 |
| 3 | 11490.00 | 57.5 PK | 74.0 | -16.5 | 1.72 V | 229 | 38.7 | 18.8 |
| 4 | 11490.00 | 48.1 AV | 54.0 | -5.9 | 1.72 V | 229 | 29.3 | 18.8 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 157 : 5785 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

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 | *5745.00 | 103.7 PK | | | 1.00 V | 61 | 60.0 | 43.7 |
| 2 | *5745.00 | 96.0 AV | | | 1.00 V | 61 | 52.3 | 43.7 |
| 3 | 11490.00 | 57.5 PK | 74.0 | -16.5 | 1.72 V | 229 | 38.7 | 18.8 |
| 4 | 11490.00 | 48.1 AV | 54.0 | -5.9 | 1.72 V | 229 | 29.3 | 18.8 |

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 | *5785.00 | 105.1 PK | | | 1.00 V | 61 | 61.3 | 43.8 |
| 2 | *5785.00 | 97.6 AV | | | 1.00 V | 61 | 53.8 | 43.8 |
| 3 | 11570.00 | 57.8 PK | 74.0 | -16.2 | 1.19 V | 186 | 39.2 | 18.6 |
| 4 | 11570.00 | 48.0 AV | 54.0 | -6.0 | 1.19 V | 186 | 29.4 | 18.6 |

Remarks:

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



| | | | |
|-----------------|----------------|-------------------------------|--|
| RF Mode | 802.11a | Channel | CH 165 : 5825 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

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 | *5825.00 | 107.7 PK | | | 1.00 H | 124 | 63.8 | 43.9 |
| 2 | *5825.00 | 100.0 AV | | | 1.00 H | 124 | 56.1 | 43.9 |
| 3 | 11650.00 | 58.3 PK | 74.0 | -15.7 | 1.74 H | 255 | 39.4 | 18.9 |
| 4 | 11650.00 | 48.2 AV | 54.0 | -5.8 | 1.74 H | 255 | 29.3 | 18.9 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *5825.00 | 103.6 PK | | | 1.00 V | 61 | 59.7 | 43.9 |
| 2 | *5825.00 | 95.9 AV | | | 1.00 V | 61 | 52.0 | 43.9 |
| 3 | 11650.00 | 57.8 PK | 74.0 | -16.2 | 1.64 V | 116 | 38.9 | 18.9 |
| 4 | 11650.00 | 47.9 AV | 54.0 | -6.1 | 1.64 V | 116 | 29.0 | 18.9 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 149 : 5745 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5745.00 | 105.9 PK | | | 1.00 H | 124 | 62.2 | 43.7 |
| 2 | *5745.00 | 97.8 AV | | | 1.00 H | 124 | 54.1 | 43.7 |
| 3 | 11490.00 | 57.8 PK | 74.0 | -16.2 | 1.42 H | 318 | 39.0 | 18.8 |
| 4 | 11490.00 | 47.7 AV | 54.0 | -6.3 | 1.42 H | 318 | 28.9 | 18.8 |
| 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 | *5745.00 | 102.1 PK | | | 1.00 V | 61 | 58.4 | 43.7 |
| 2 | *5745.00 | 94.3 AV | | | 1.00 V | 61 | 50.6 | 43.7 |
| 3 | 11490.00 | 57.7 PK | 74.0 | -16.3 | 1.63 V | 332 | 38.9 | 18.8 |
| 4 | 11490.00 | 47.9 AV | 54.0 | -6.1 | 1.63 V | 332 | 29.1 | 18.8 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 157 : 5785 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

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 | *5785.00 | 106.2 PK | | | 1.00 H | 124 | 62.4 | 43.8 |
| 2 | *5785.00 | 97.9 AV | | | 1.00 H | 124 | 54.1 | 43.8 |
| 3 | 11570.00 | 57.9 PK | 74.0 | -16.1 | 1.52 H | 163 | 39.3 | 18.6 |
| 4 | 11570.00 | 47.5 AV | 54.0 | -6.5 | 1.52 H | 163 | 28.9 | 18.6 |

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 | *5785.00 | 102.1 PK | | | 1.00 V | 61 | 58.3 | 43.8 |
| 2 | *5785.00 | 93.8 AV | | | 1.00 V | 61 | 50.0 | 43.8 |
| 3 | 11570.00 | 57.7 PK | 74.0 | -16.3 | 1.82 V | 15 | 39.1 | 18.6 |
| 4 | 11570.00 | 47.8 AV | 54.0 | -6.2 | 1.82 V | 15 | 29.2 | 18.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT20) | Channel | CH 165 : 5825 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5825.00 | 105.6 PK | | | 1.00 H | 124 | 61.7 | 43.9 |
| 2 | *5825.00 | 97.7 AV | | | 1.00 H | 124 | 53.8 | 43.9 |
| 3 | 11650.00 | 57.6 PK | 74.0 | -16.4 | 1.12 H | 214 | 38.7 | 18.9 |
| 4 | 11650.00 | 47.4 AV | 54.0 | -6.6 | 1.12 H | 214 | 28.5 | 18.9 |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *5825.00 | 102.3 PK | | | 1.00 V | 61 | 58.4 | 43.9 |
| 2 | *5825.00 | 94.2 AV | | | 1.00 V | 61 | 50.3 | 43.9 |
| 3 | 11650.00 | 57.4 PK | 74.0 | -16.6 | 1.26 V | 19 | 38.5 | 18.9 |
| 4 | 11650.00 | 47.4 AV | 54.0 | -6.6 | 1.26 V | 19 | 28.5 | 18.9 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 151 : 5755 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5755.00 | 102.8 PK | | | 1.00 H | 124 | 59.1 | 43.7 |
| 2 | *5755.00 | 95.2 AV | | | 1.00 H | 124 | 51.5 | 43.7 |
| 3 | 11510.00 | 57.6 PK | 74.0 | -16.4 | 1.45 H | 283 | 38.9 | 18.7 |
| 4 | 11510.00 | 47.6 AV | 54.0 | -6.4 | 1.45 H | 283 | 28.9 | 18.7 |

| 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 | *5755.00 | 98.7 PK | | | 1.00 V | 61 | 55.0 | 43.7 |
| 2 | *5755.00 | 90.7 AV | | | 1.00 V | 61 | 47.0 | 43.7 |
| 3 | 11510.00 | 57.4 PK | 74.0 | -16.6 | 1.64 V | 219 | 38.7 | 18.7 |
| 4 | 11510.00 | 47.6 AV | 54.0 | -6.4 | 1.64 V | 219 | 28.9 | 18.7 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT40) | Channel | CH 159 : 5795 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5795.00 | 101.7 PK | | | 1.00 H | 124 | 57.9 | 43.8 |
| 2 | *5795.00 | 93.9 AV | | | 1.00 H | 124 | 50.1 | 43.8 |
| 3 | 11590.00 | 57.7 PK | 74.0 | -16.3 | 1.63 H | 224 | 39.1 | 18.6 |
| 4 | 11590.00 | 47.6 AV | 54.0 | -6.4 | 1.63 H | 224 | 29.0 | 18.6 |

| 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 | *5795.00 | 97.7 PK | | | 1.00 V | 61 | 53.9 | 43.8 |
| 2 | *5795.00 | 89.9 AV | | | 1.00 V | 61 | 46.1 | 43.8 |
| 3 | 11590.00 | 57.4 PK | 74.0 | -16.6 | 1.25 V | 200 | 38.8 | 18.6 |
| 4 | 11590.00 | 47.5 AV | 54.0 | -6.5 | 1.25 V | 200 | 28.9 | 18.6 |

Remarks:

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



| | | | |
|-----------------|------------------|-------------------------------|--|
| RF Mode | 802.11ac (VHT80) | Channel | CH 155 : 5775 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 60% RH |
| Tested By | Charles Hsiao | | |

| 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 | *5775.00 | 99.6 PK | | | 1.00 H | 124 | 55.8 | 43.8 |
| 2 | *5775.00 | 91.7 AV | | | 1.00 H | 124 | 47.9 | 43.8 |
| 3 | 11550.00 | 57.8 PK | 74.0 | -16.2 | 1.82 H | 313 | 39.2 | 18.6 |
| 4 | 11550.00 | 47.7 AV | 54.0 | -6.3 | 1.82 H | 313 | 29.1 | 18.6 |

| 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 | *5775.00 | 96.2 PK | | | 1.00 V | 61 | 52.4 | 43.8 |
| 2 | *5775.00 | 88.5 AV | | | 1.00 V | 61 | 44.7 | 43.8 |
| 3 | 11550.00 | 57.7 PK | 74.0 | -16.3 | 1.45 V | 113 | 39.1 | 18.6 |
| 4 | 11550.00 | 47.6 AV | 54.0 | -6.4 | 1.45 V | 113 | 29.0 | 18.6 |

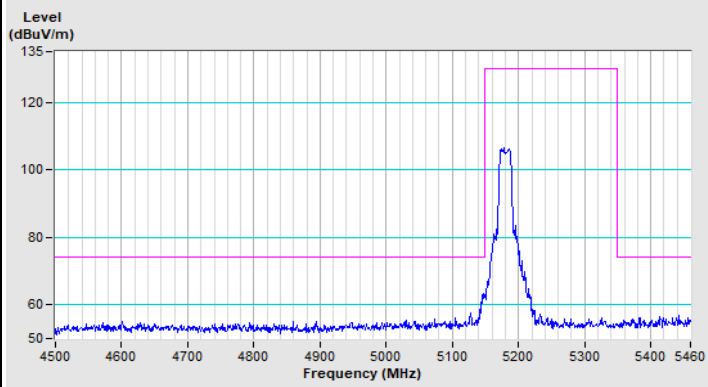
Remarks:

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

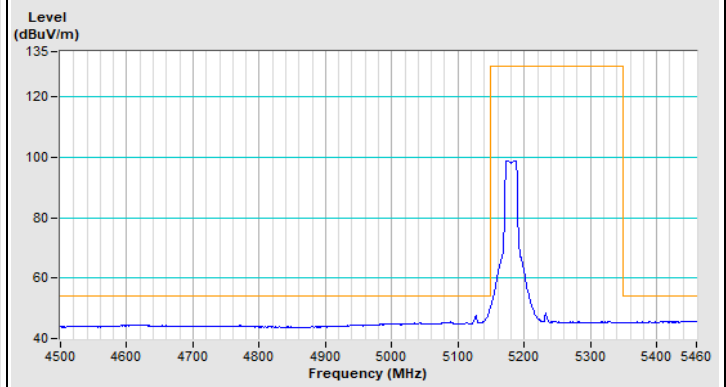


Plot of Band Edge

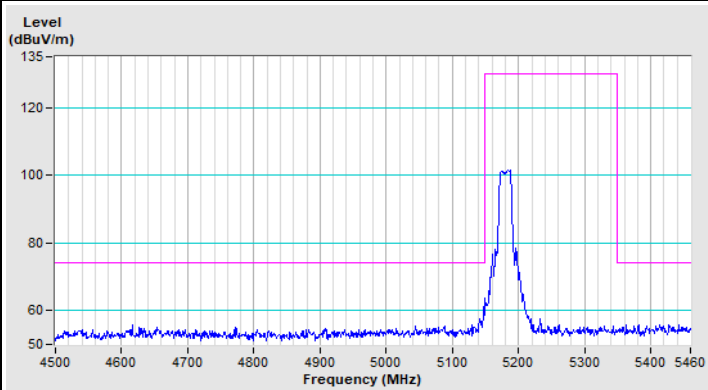
802.11a Channel 36



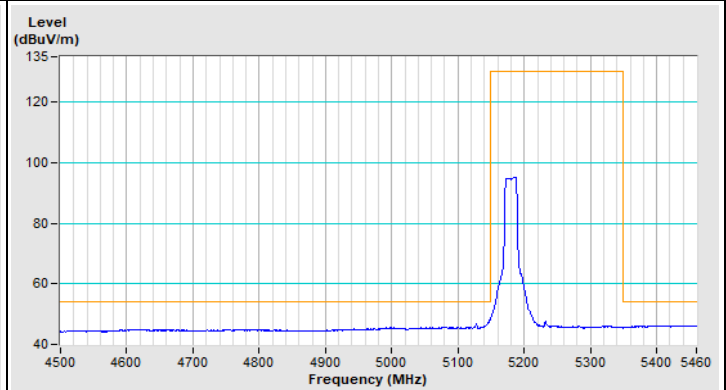
Horizontal (Peak)



Horizontal (Average)

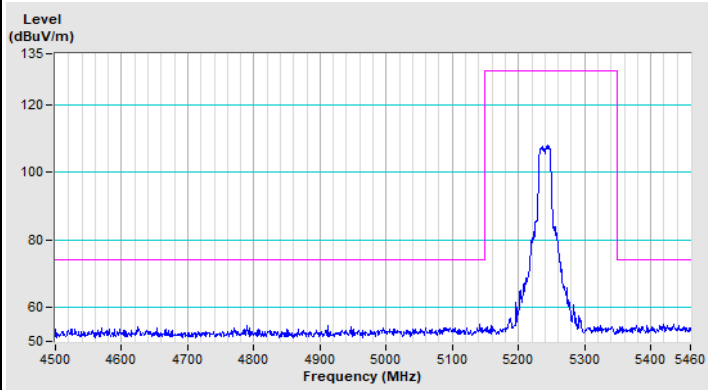


Vertical (Peak)

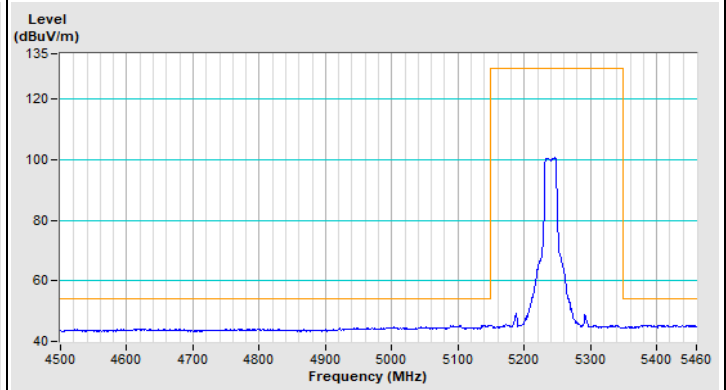


Vertical (Average)

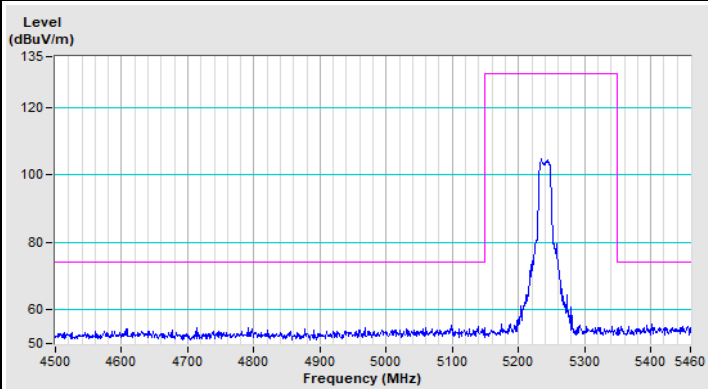
802.11a Channel 48



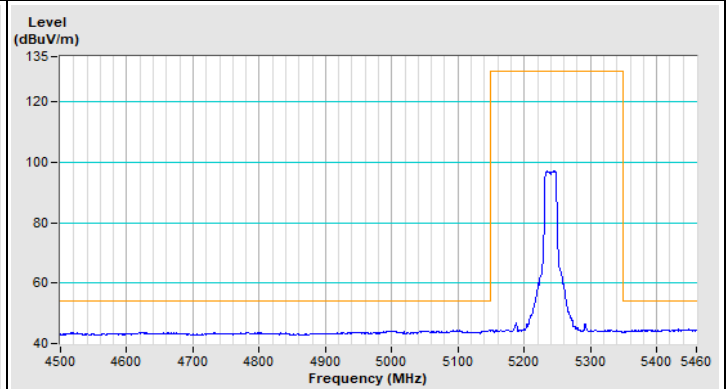
Horizontal (Peak)



Horizontal (Average)

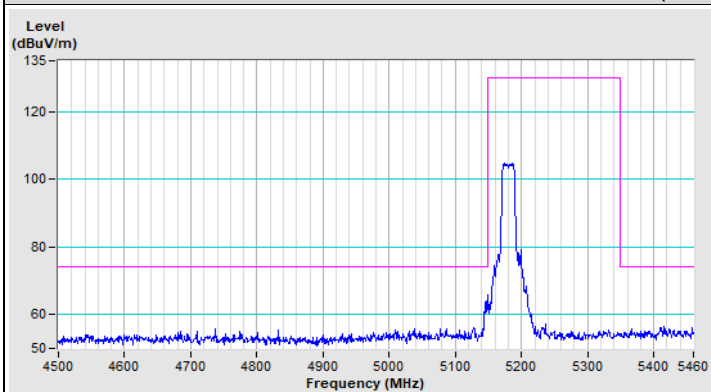


Vertical (Peak)

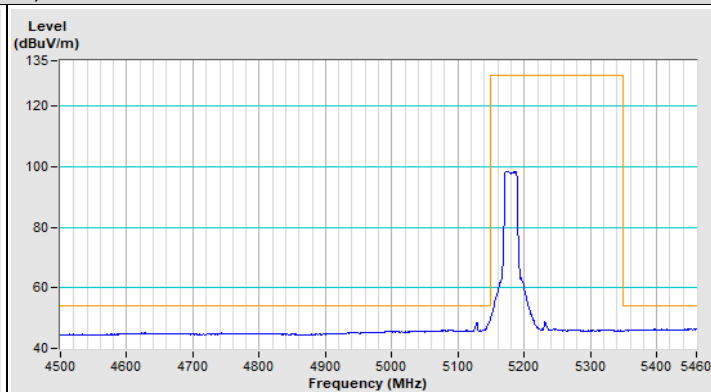


Vertical (Average)

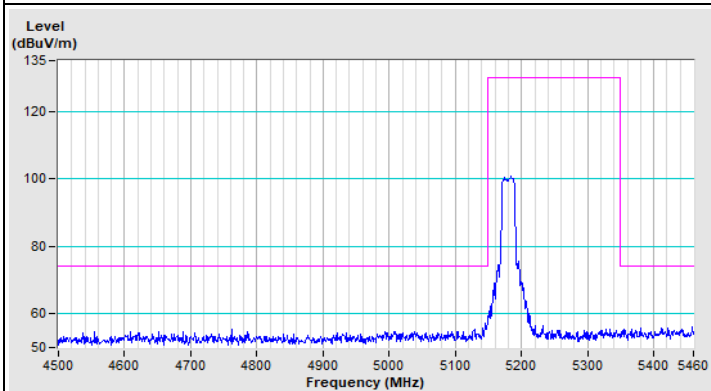
802.11ac (VHT20) Channel 36



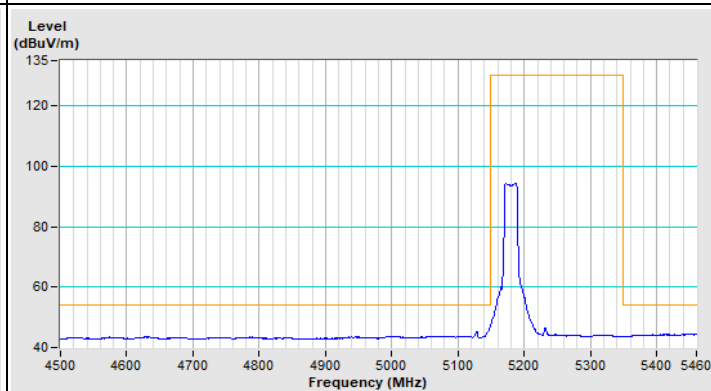
Horizontal (Peak)



Horizontal (Average)

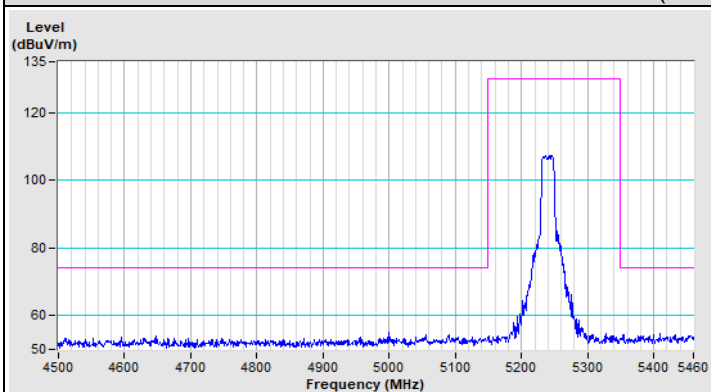


Vertical (Peak)

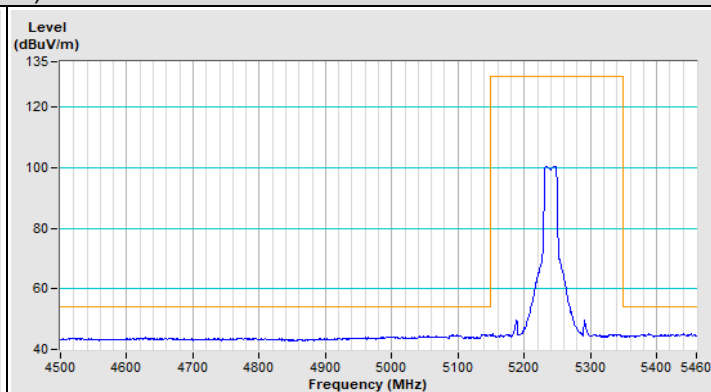


Vertical (Average)

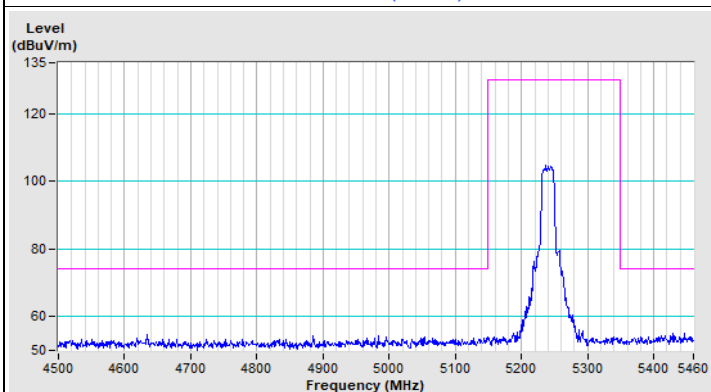
802.11ac (VHT20) Channel 48



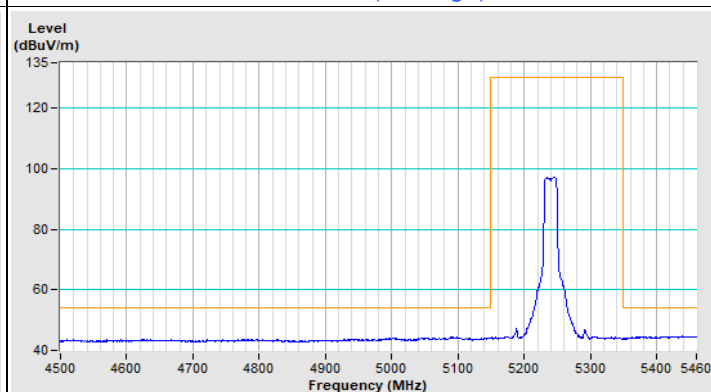
Horizontal (Peak)



Horizontal (Average)

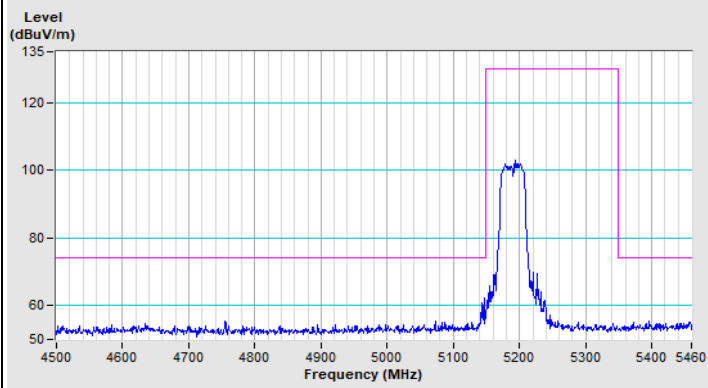


Vertical (Peak)

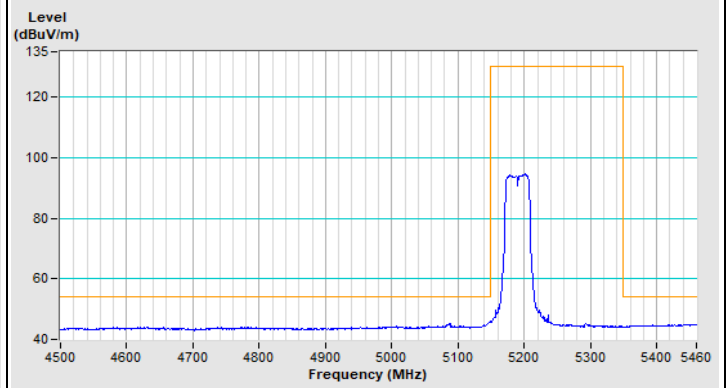


Vertical (Average)

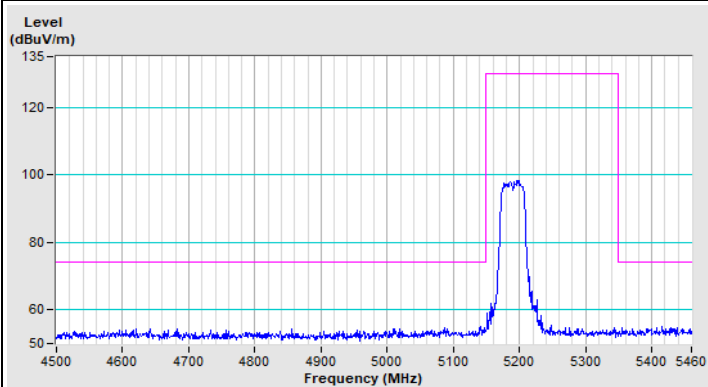
802.11ac (VHT40) Channel 38



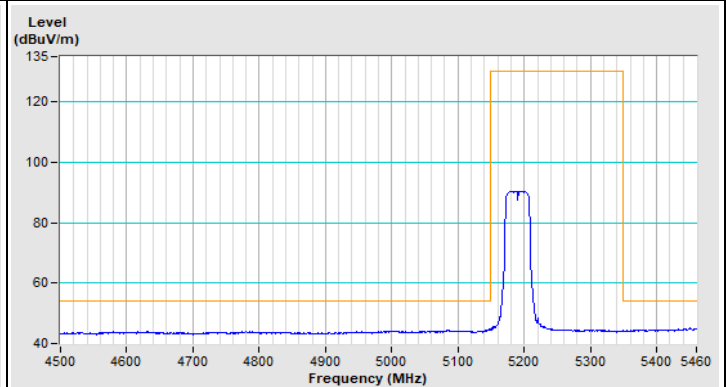
Horizontal (Peak)



Horizontal (Average)

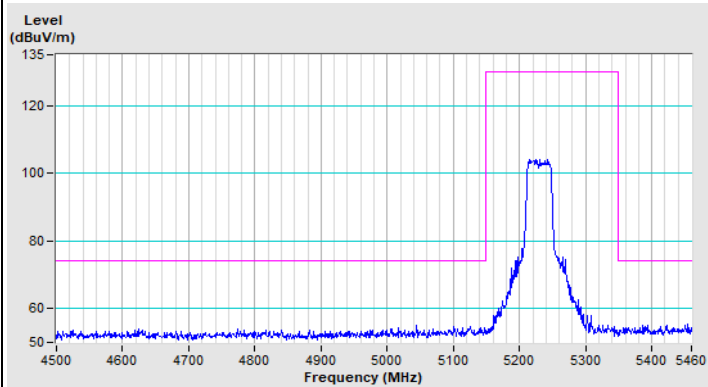


Vertical (Peak)

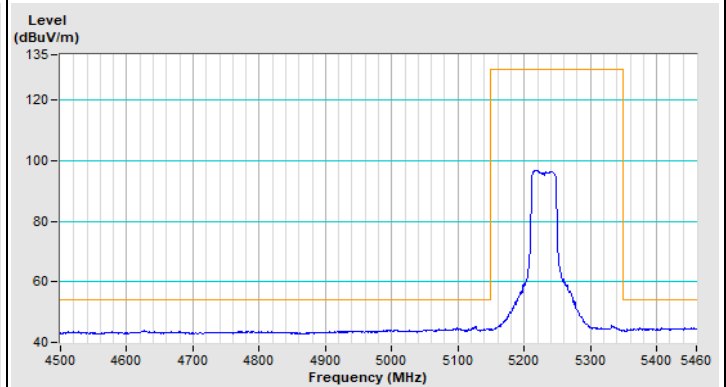


Vertical (Average)

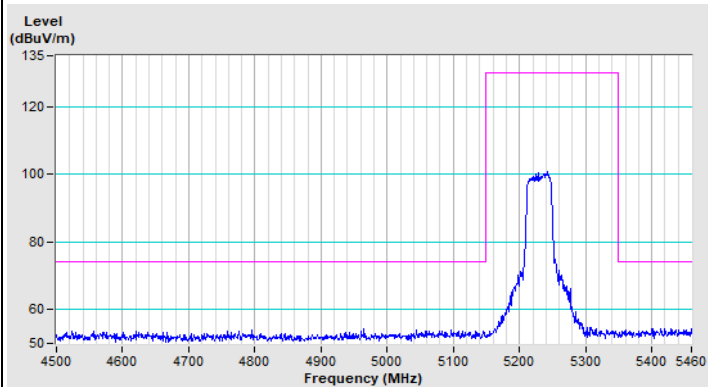
802.11ac (VHT40) Channel 46



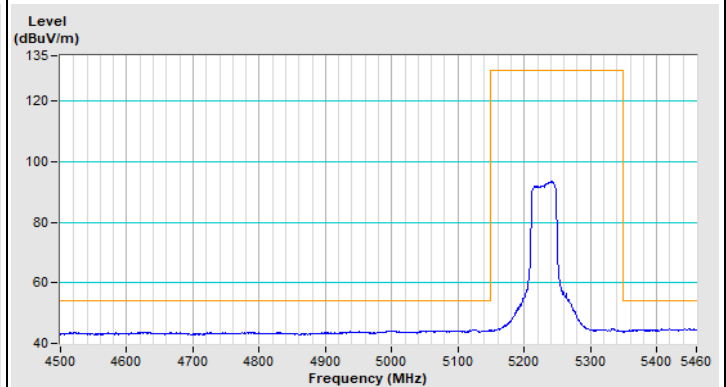
Horizontal (Peak)



Horizontal (Average)

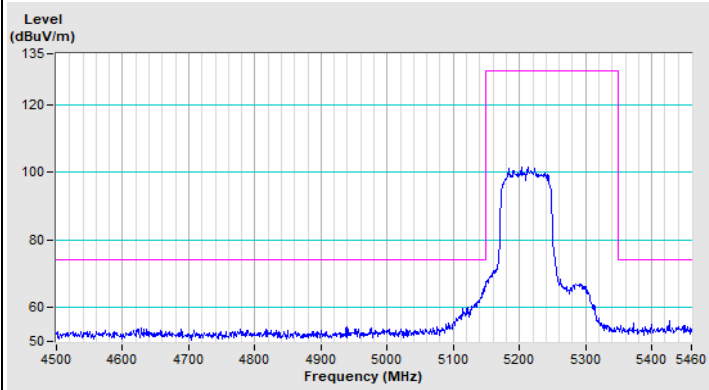


Vertical (Peak)

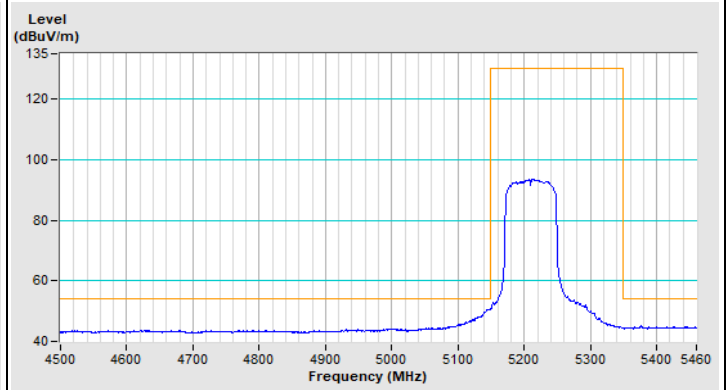


Vertical (Average)

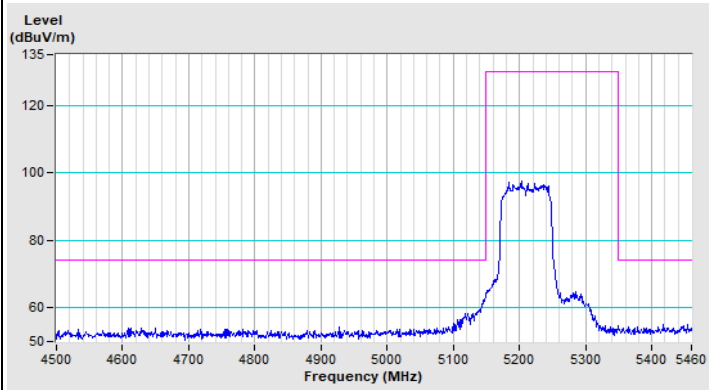
802.11ac (VHT80) Channel 42



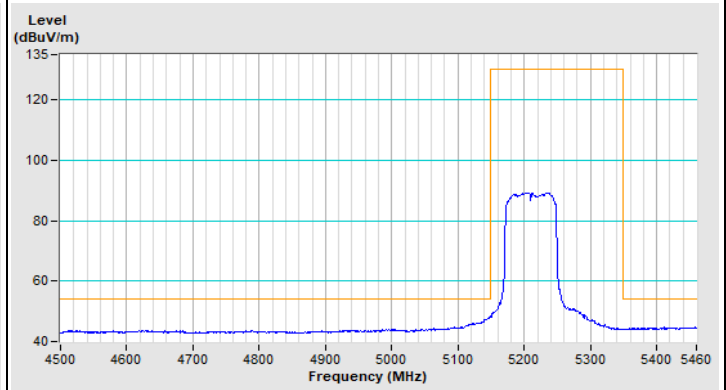
Horizontal (Peak)



Horizontal (Average)

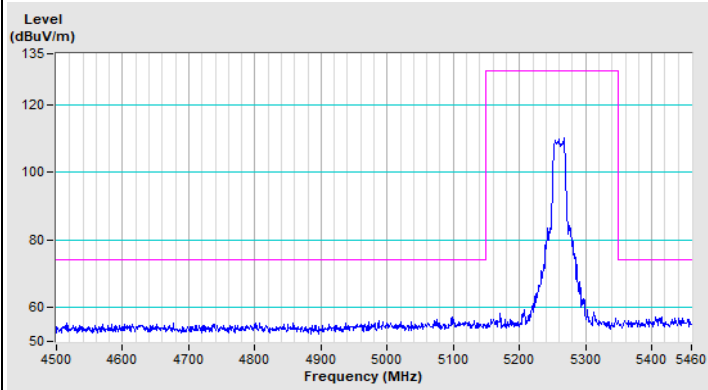


Vertical (Peak)

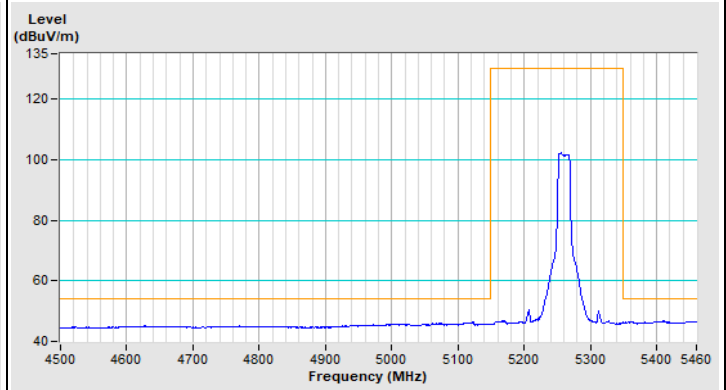


Vertical (Average)

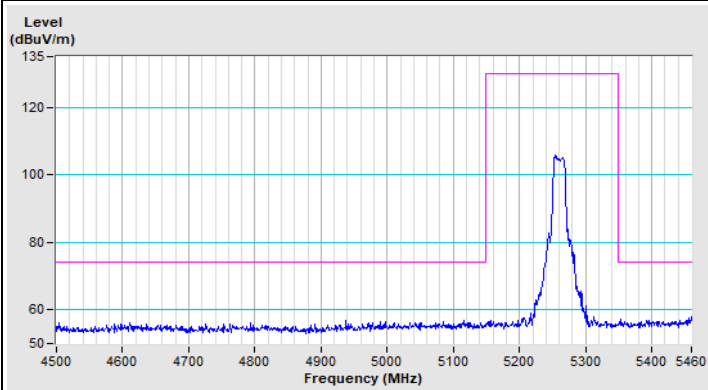
802.11a Channel 52



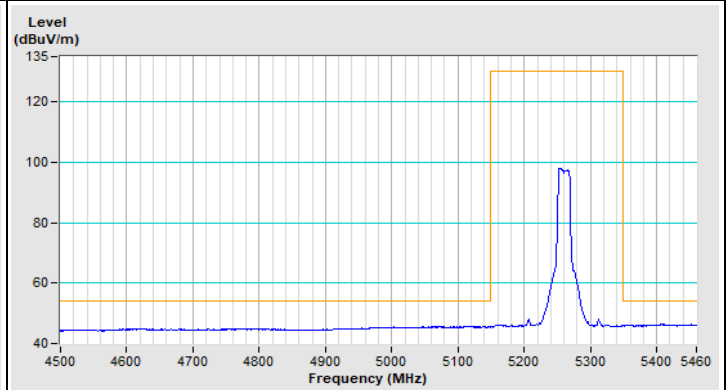
Horizontal (Peak)



Horizontal (Average)

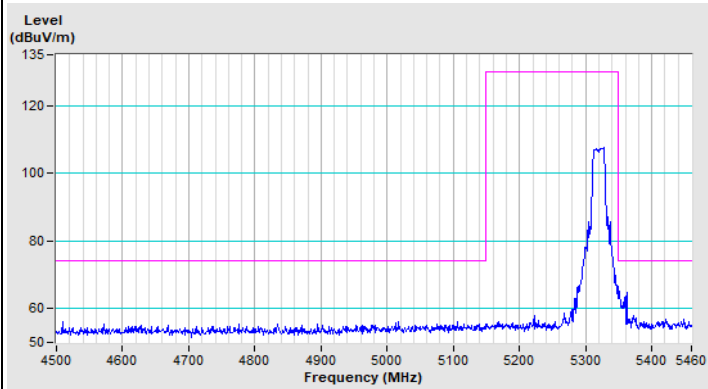


Vertical (Peak)

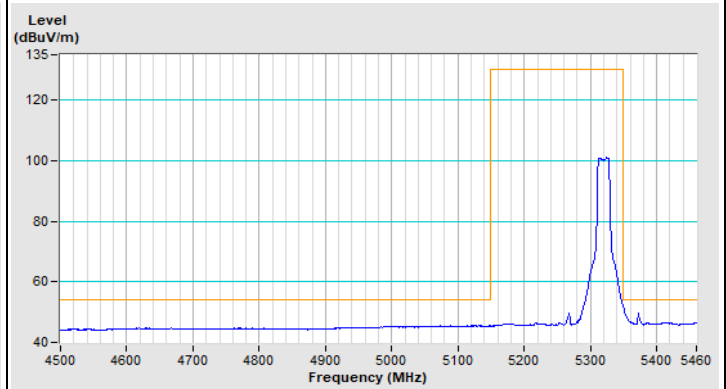


Vertical (Average)

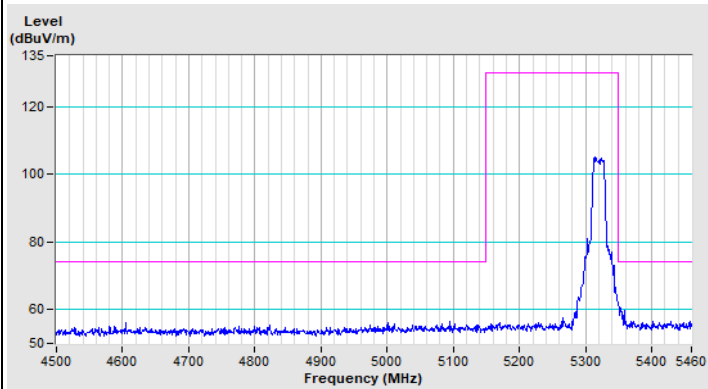
802.11a Channel 64



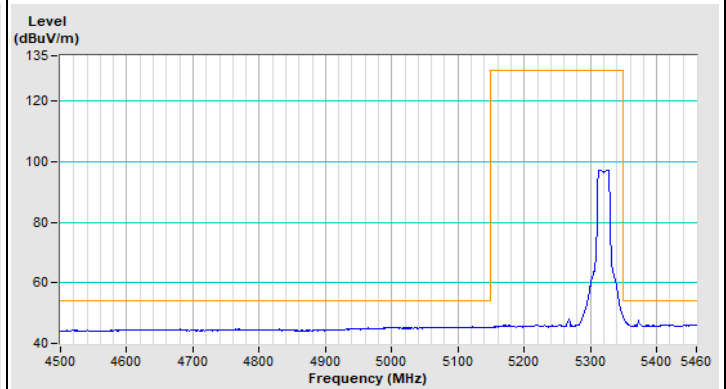
Horizontal (Peak)



Horizontal (Average)

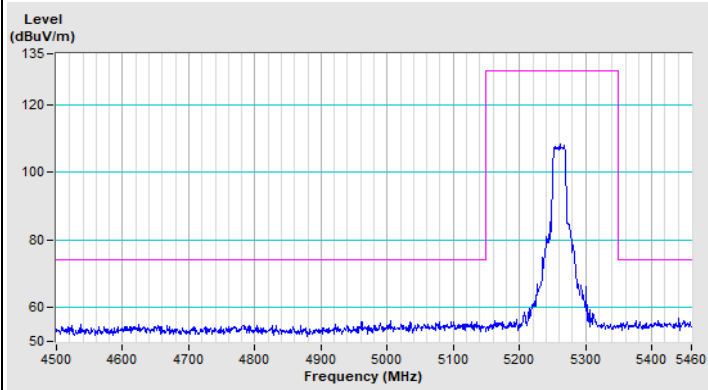


Vertical (Peak)

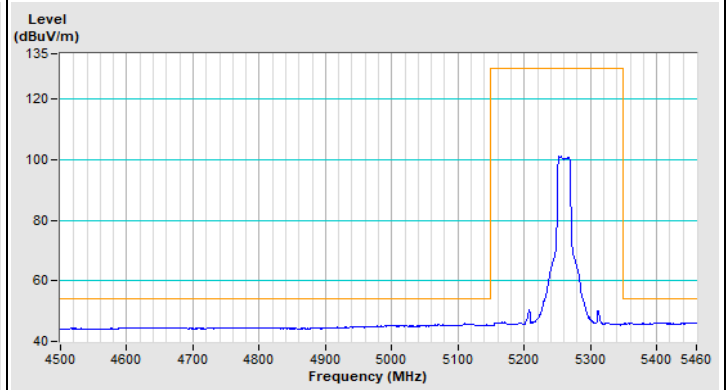


Vertical (Average)

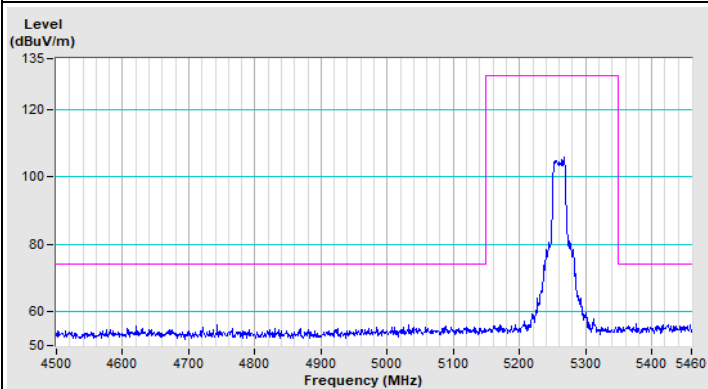
802.11ac (VHT20) Channel 52



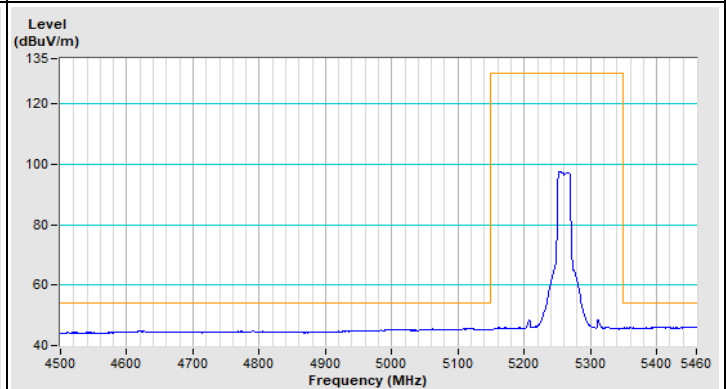
Horizontal (Peak)



Horizontal (Average)

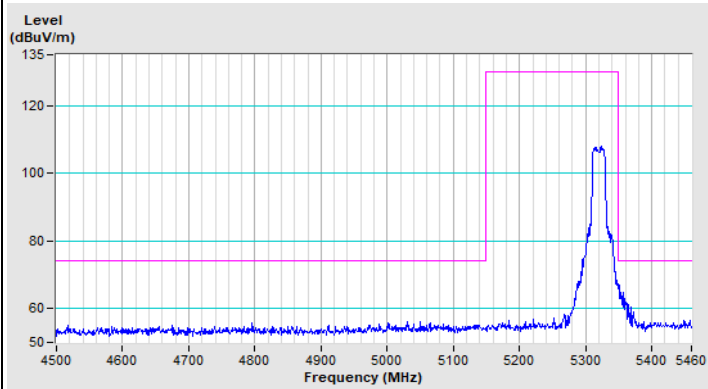


Vertical (Peak)

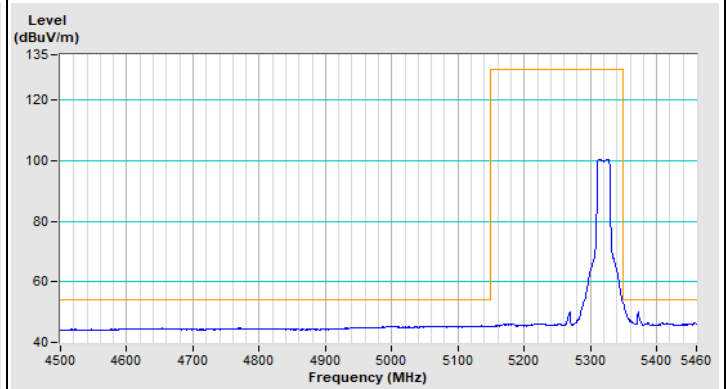


Vertical (Average)

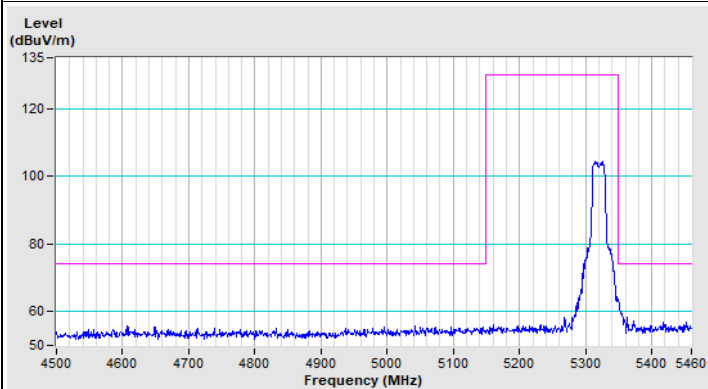
802.11ac (VHT20) Channel 64



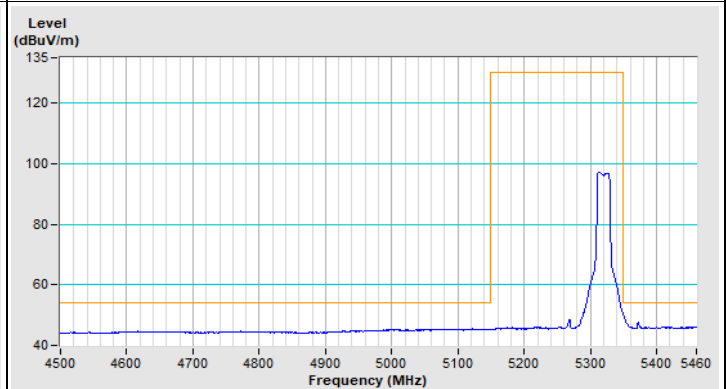
Horizontal (Peak)



Horizontal (Average)

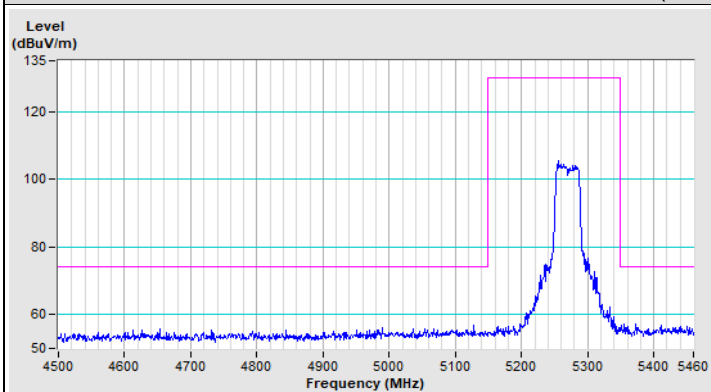


Vertical (Peak)

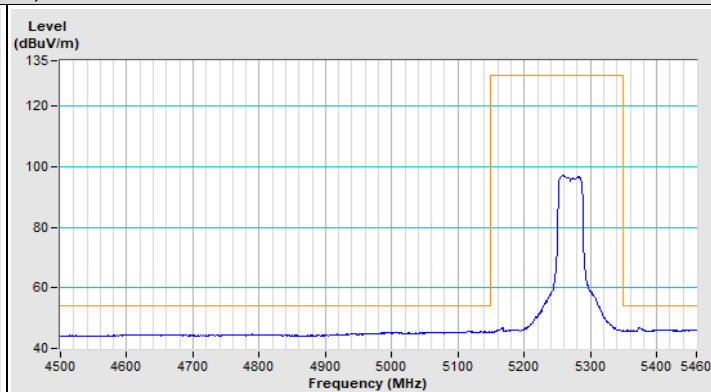


Vertical (Average)

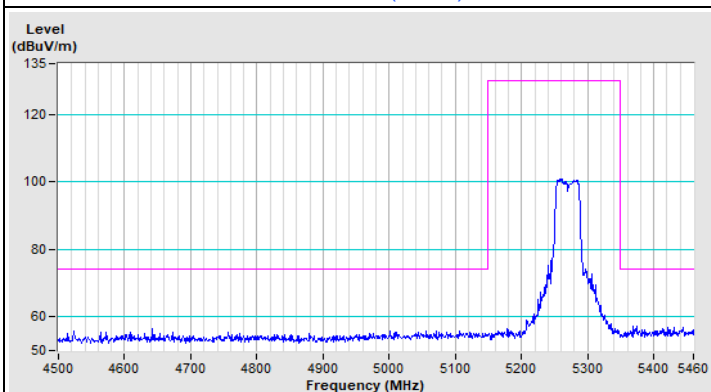
802.11ac (VHT40) Channel 54



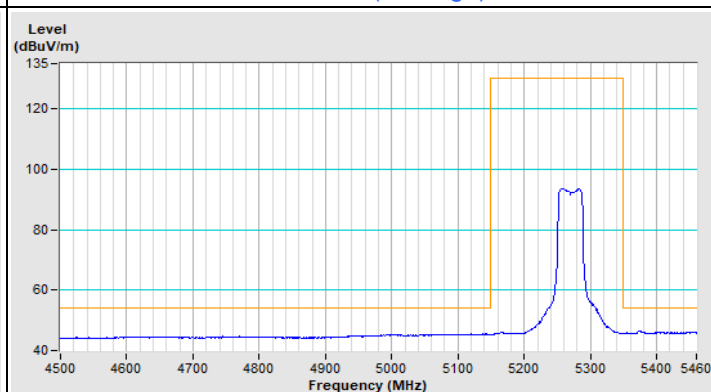
Horizontal (Peak)



Horizontal (Average)

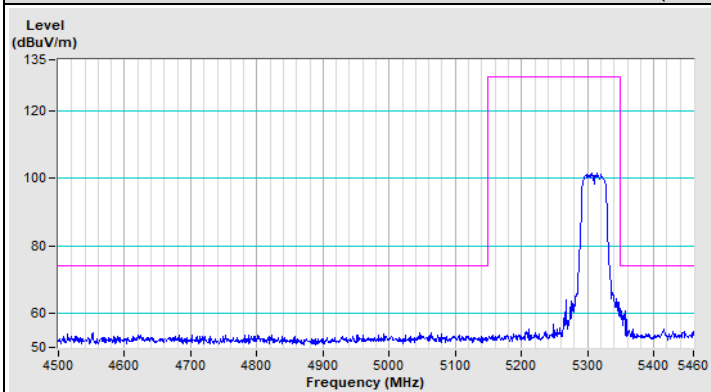


Vertical (Peak)

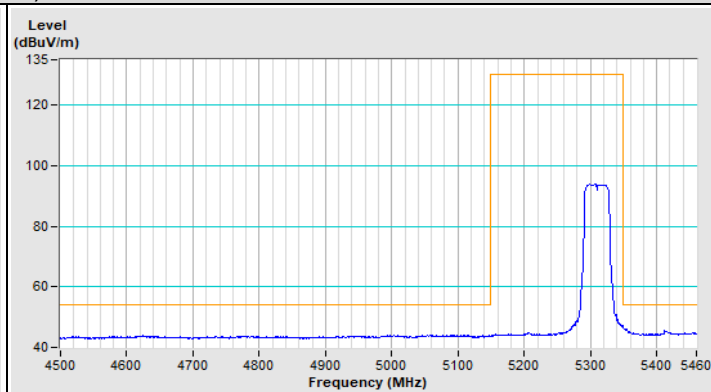


Vertical (Average)

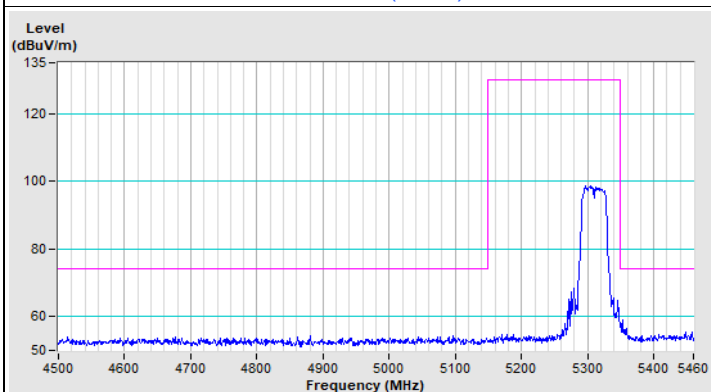
802.11ac (VHT40) Channel 62



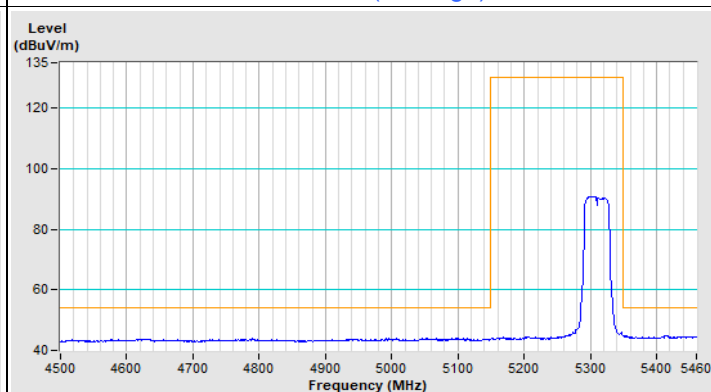
Horizontal (Peak)



Horizontal (Average)

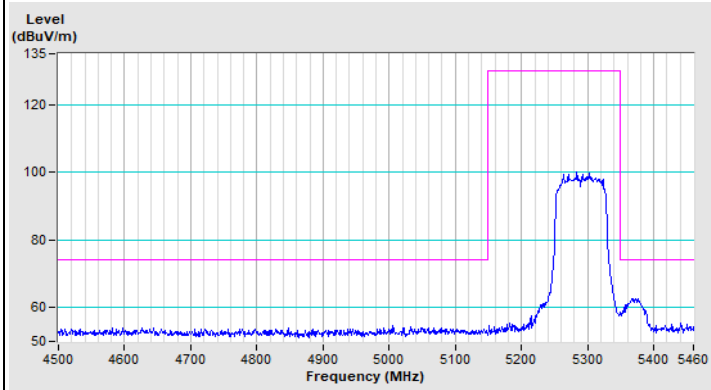


Vertical (Peak)

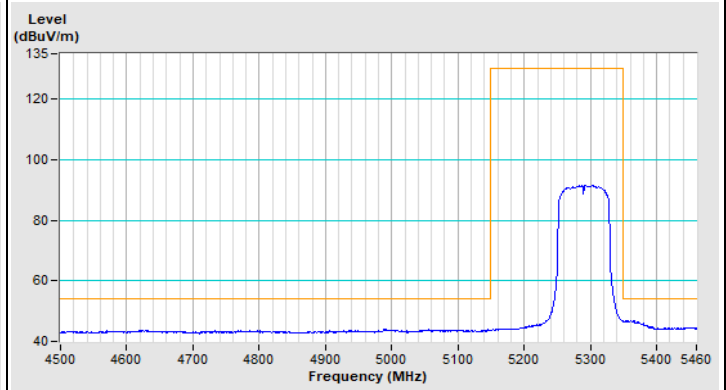


Vertical (Average)

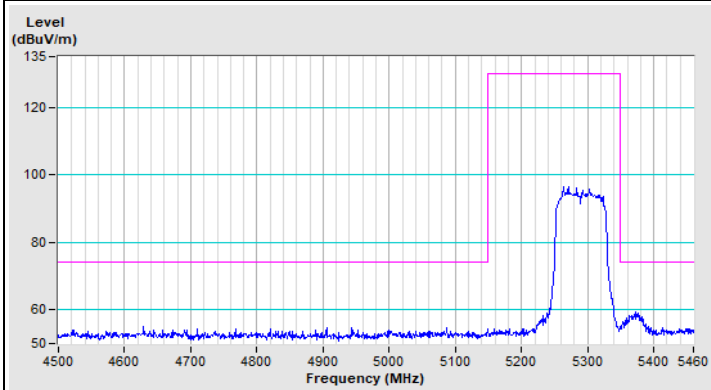
802.11ac (VHT80) Channel 58



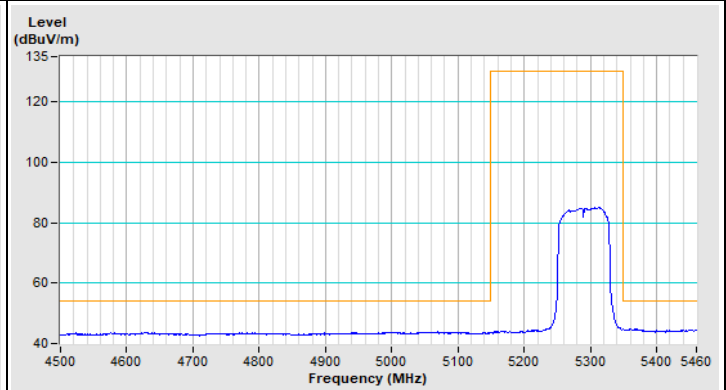
Horizontal (Peak)



Horizontal (Average)

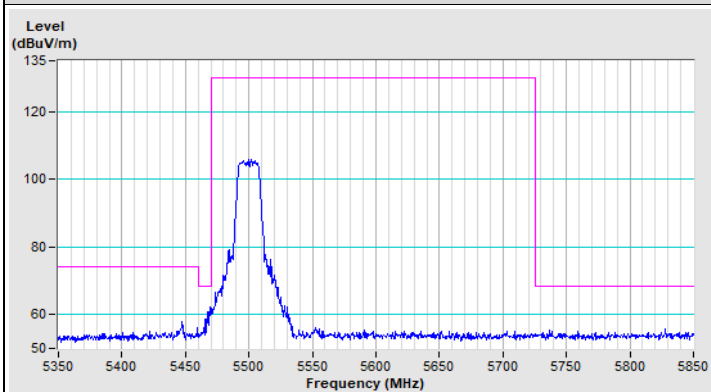


Vertical (Peak)

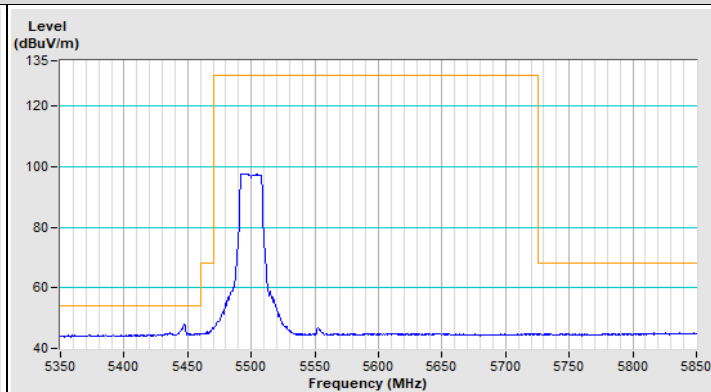


Vertical (Average)

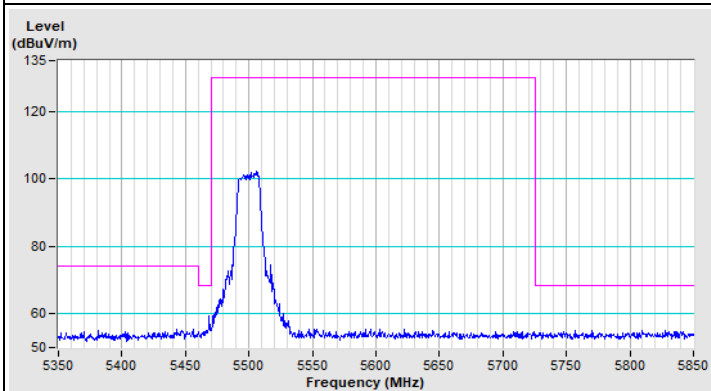
802.11a Channel 100



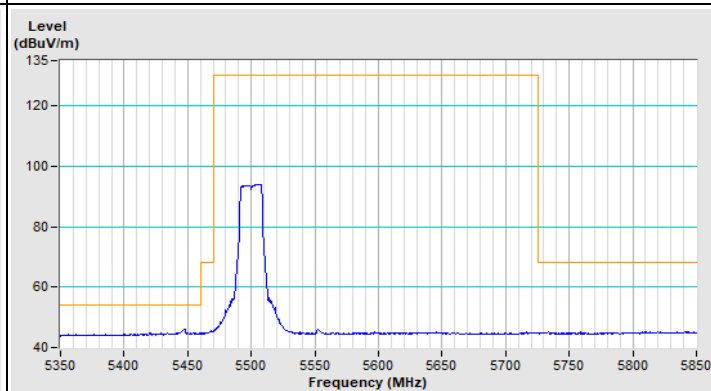
Horizontal (Peak)



Horizontal (Average)

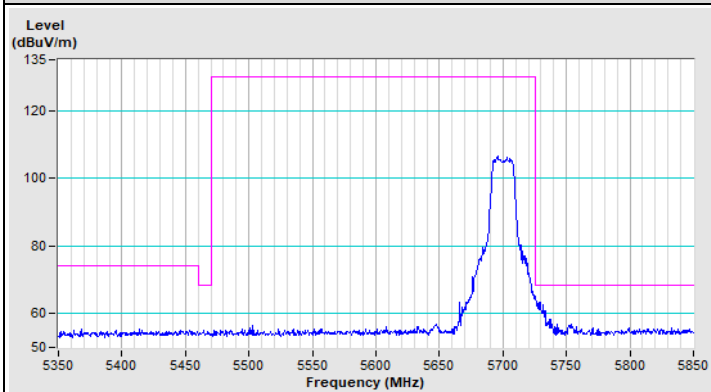


Vertical (Peak)

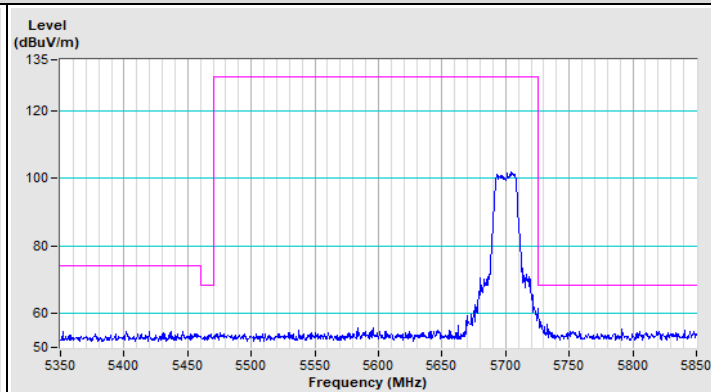


Vertical (Average)

802.11a Channel 140

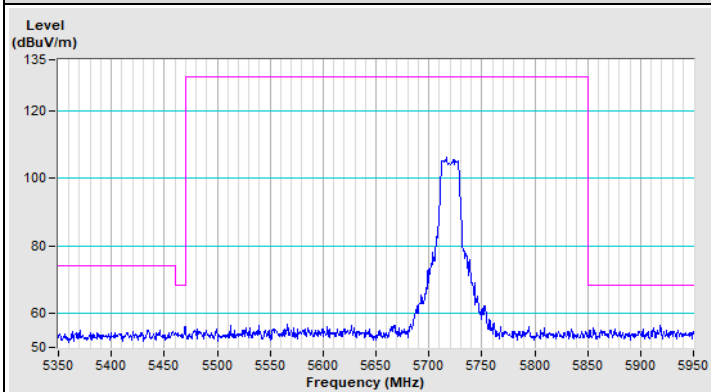


Horizontal (Peak)

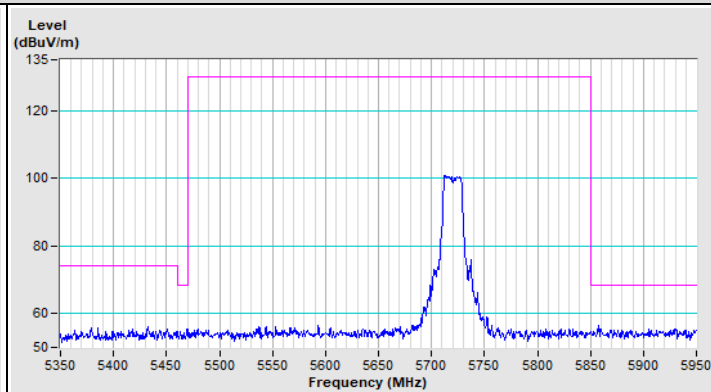


Vertical (Peak)

802.11a Channel 144

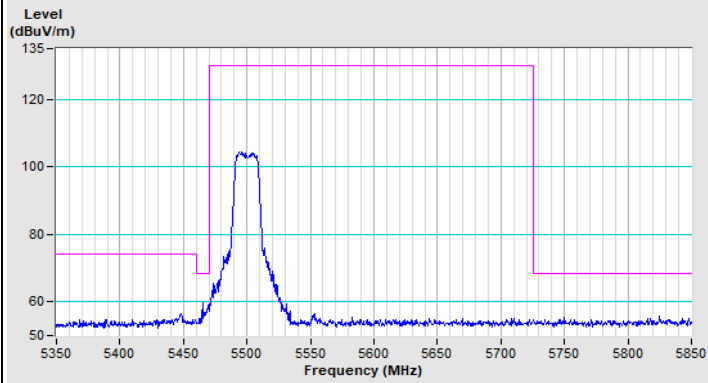


Horizontal (Peak)

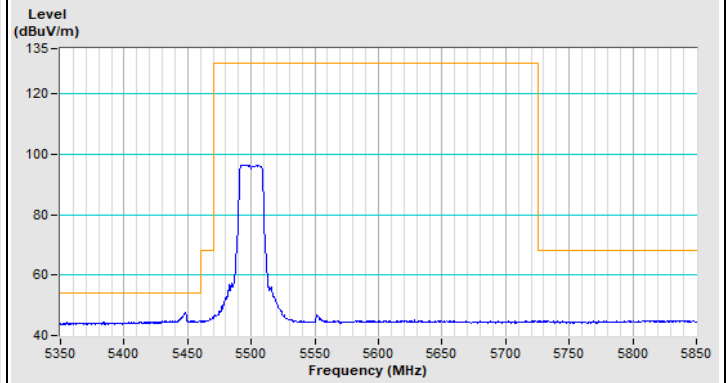


Vertical (Peak)

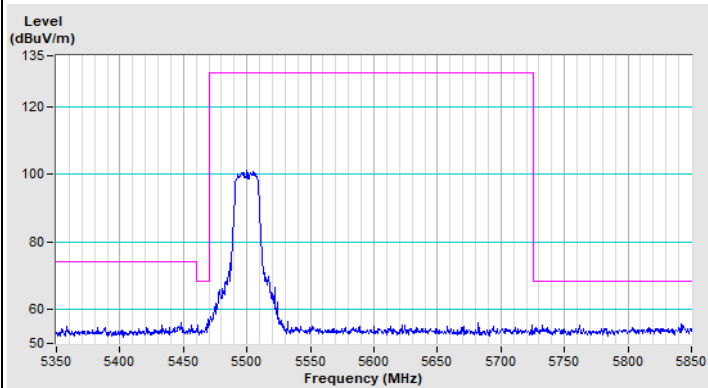
802.11ac (VHT20) Channel 100



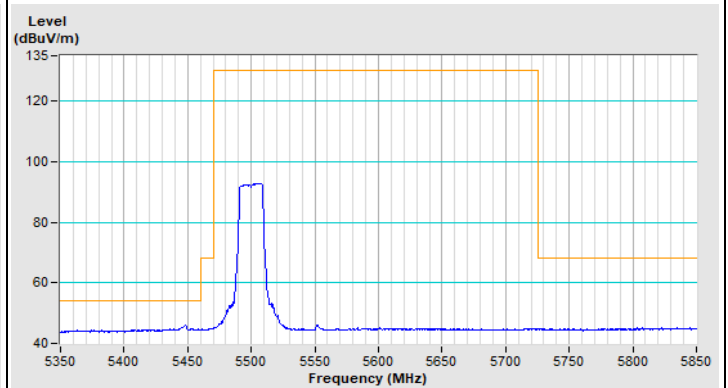
Horizontal (Peak)



Horizontal (Average)

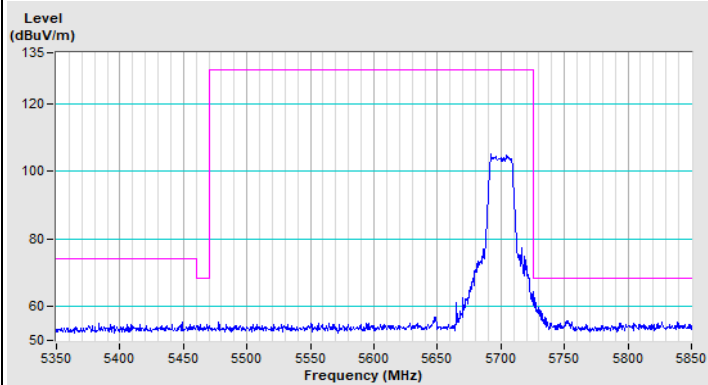


Vertical (Peak)

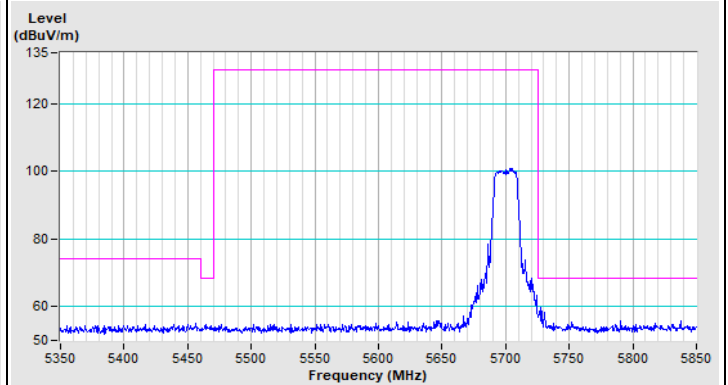


Vertical (Average)

802.11ac (VHT20) Channel 140

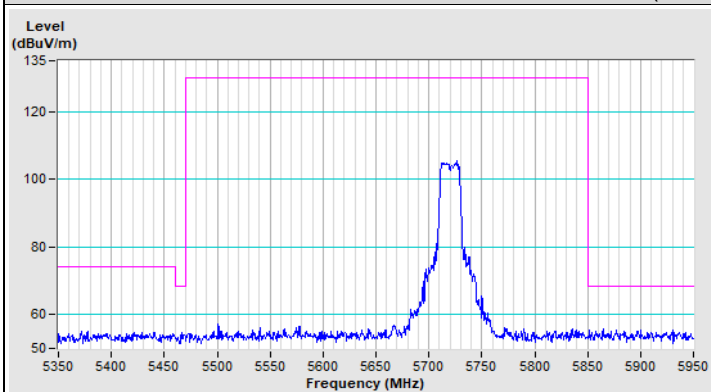


Horizontal (Peak)

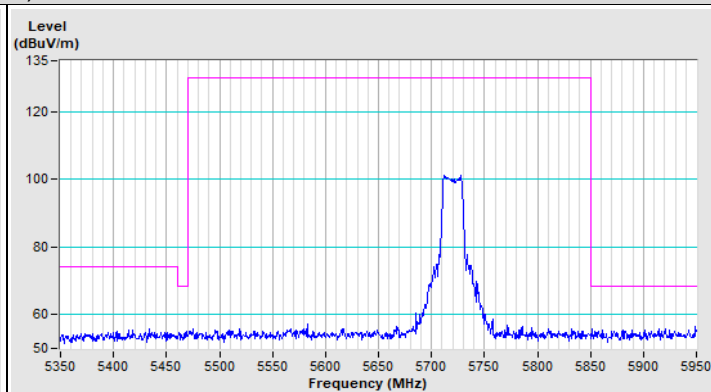


Vertical (Peak)

802.11ac (VHT20) Channel 144

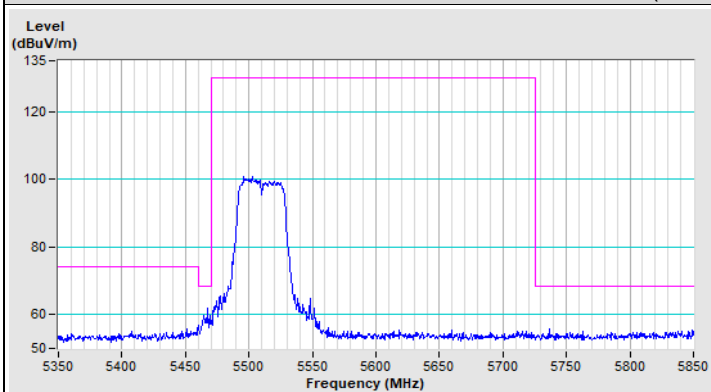


Horizontal (Peak)

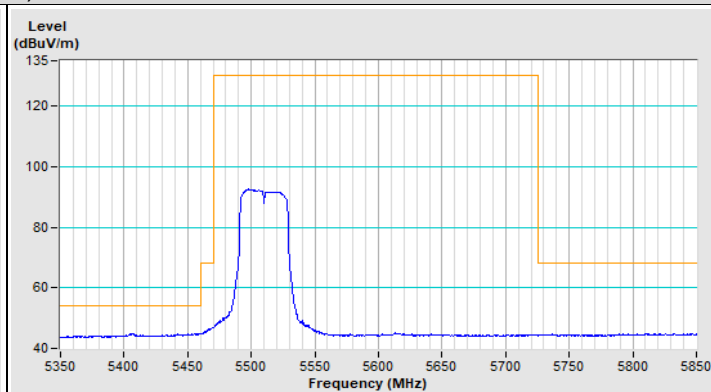


Vertical (Peak)

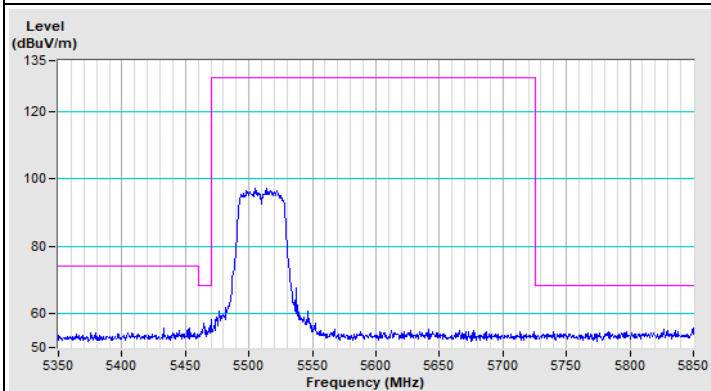
802.11ac (VHT40) Channel 102



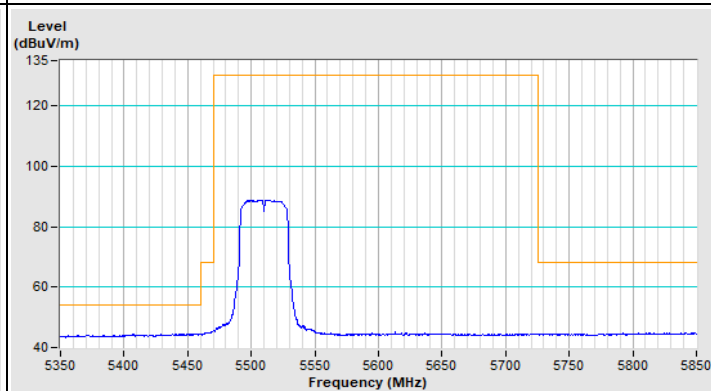
Horizontal (Peak)



Horizontal (Average)

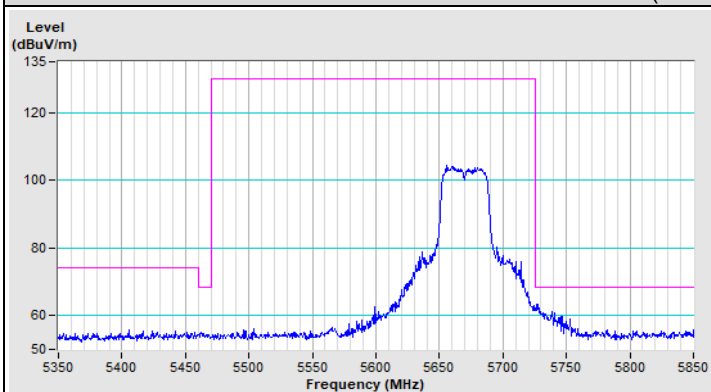


Vertical (Peak)

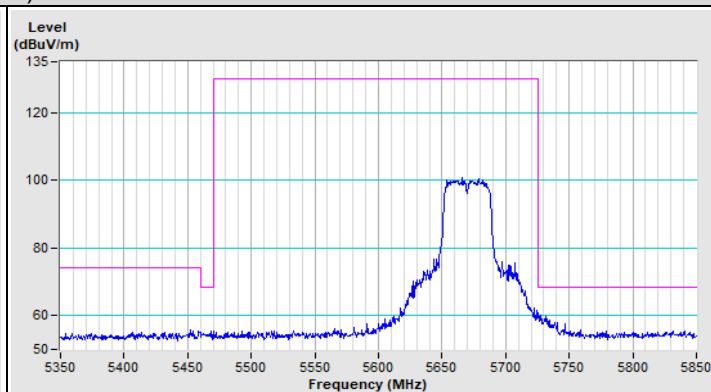


Vertical (Average)

802.11ac (VHT40) Channel 134

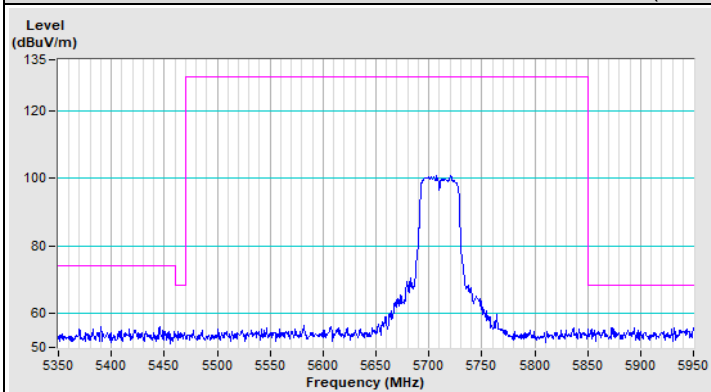


Horizontal (Peak)

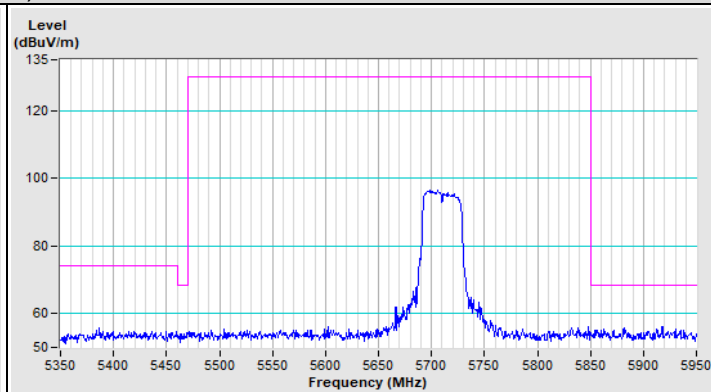


Vertical (Peak)

802.11ac (VHT40) Channel 142

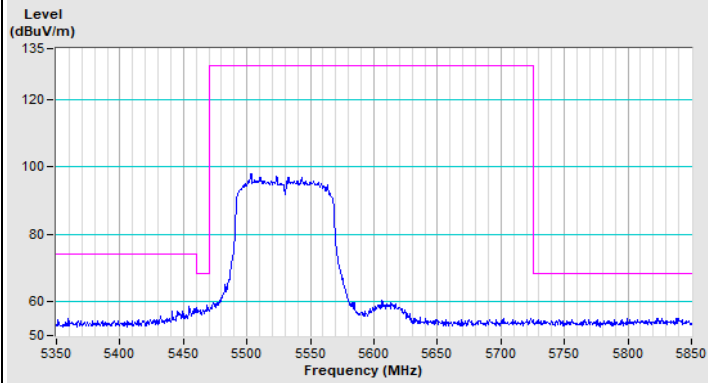


Horizontal (Peak)

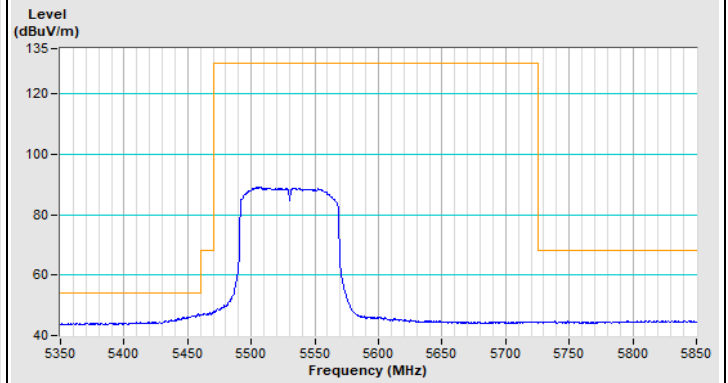


Vertical (Peak)

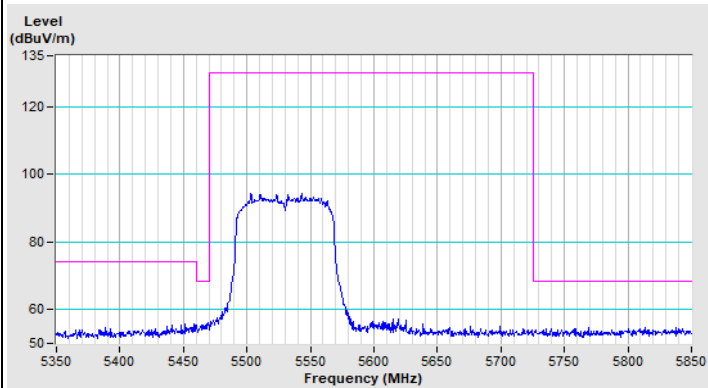
802.11ac (VHT80) Channel 106



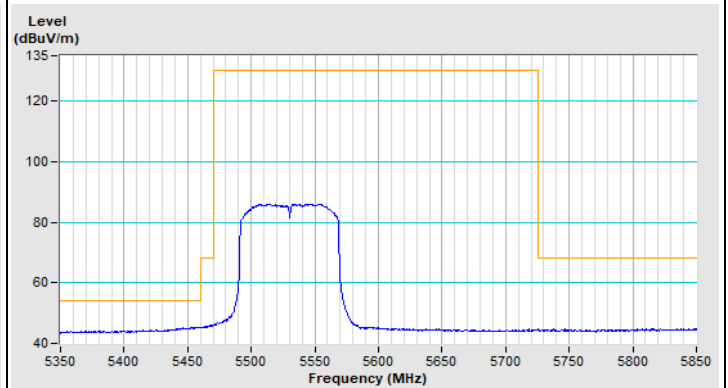
Horizontal (Peak)



Horizontal (Average)

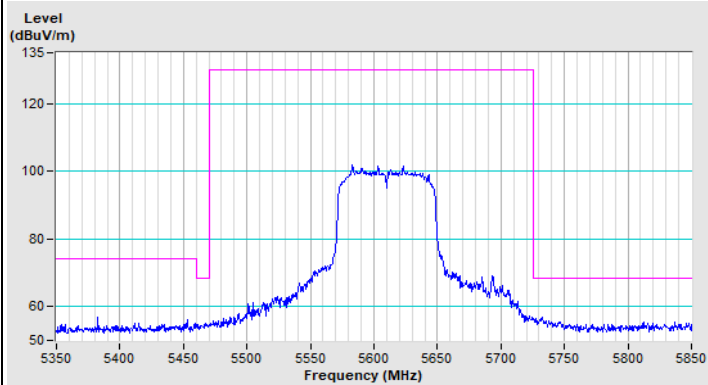


Vertical (Peak)

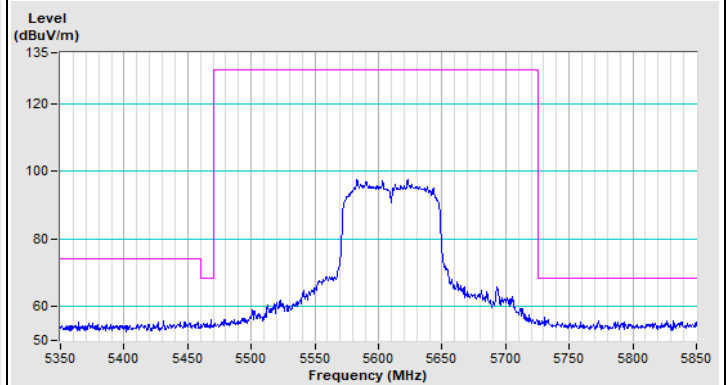


Vertical (Average)

802.11ac (VHT80) Channel 122

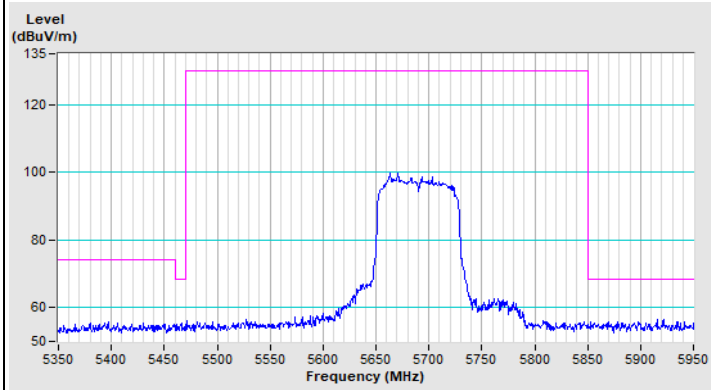


Horizontal (Peak)

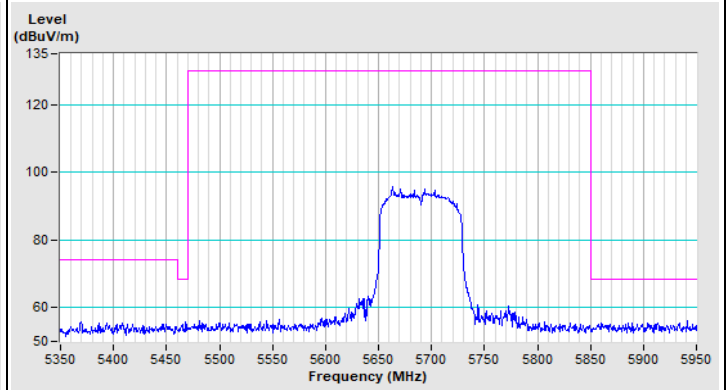


Vertical (Peak)

802.11ac (VHT80) Channel 138

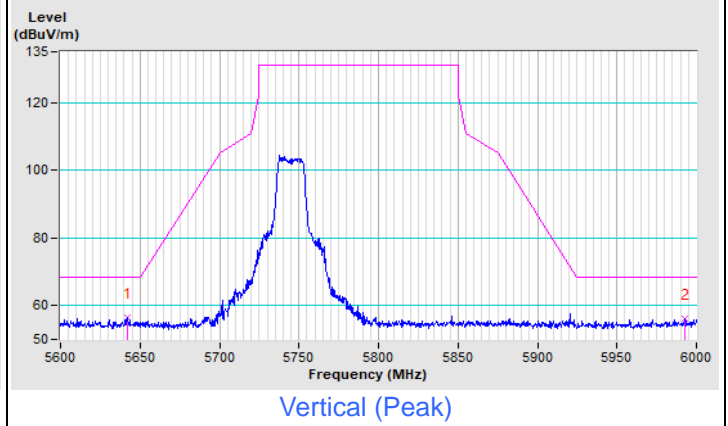
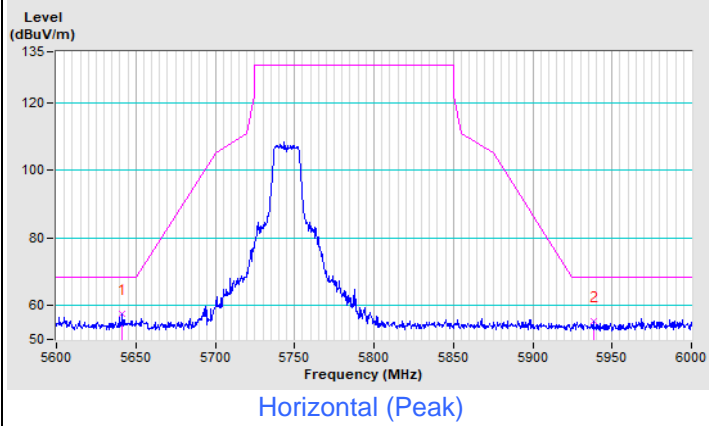


Horizontal (Peak)

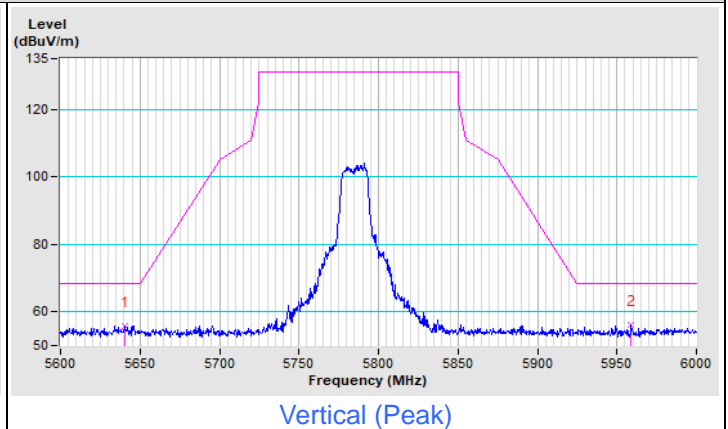
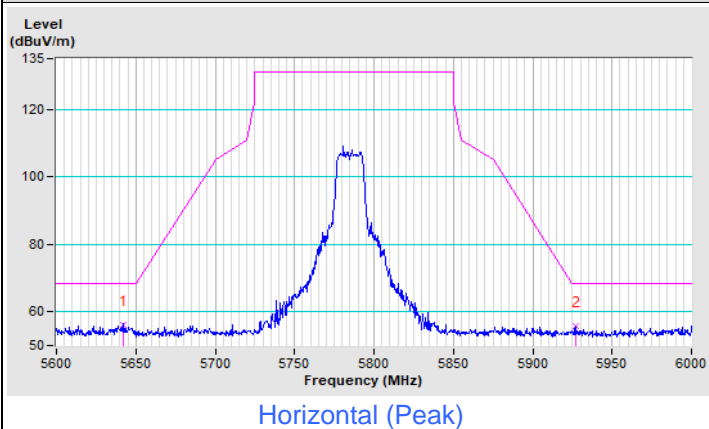


Vertical (Peak)

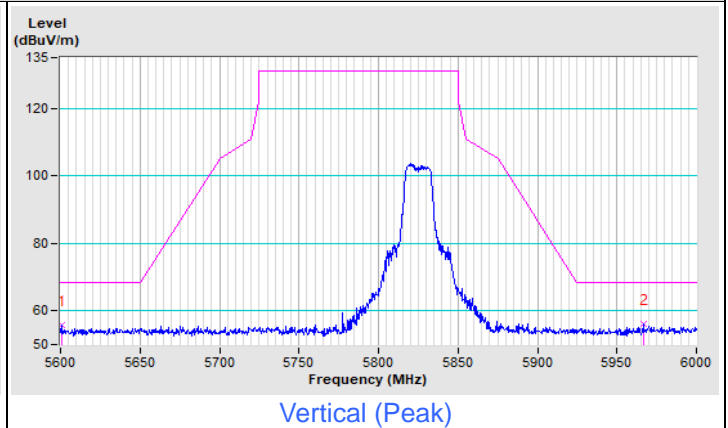
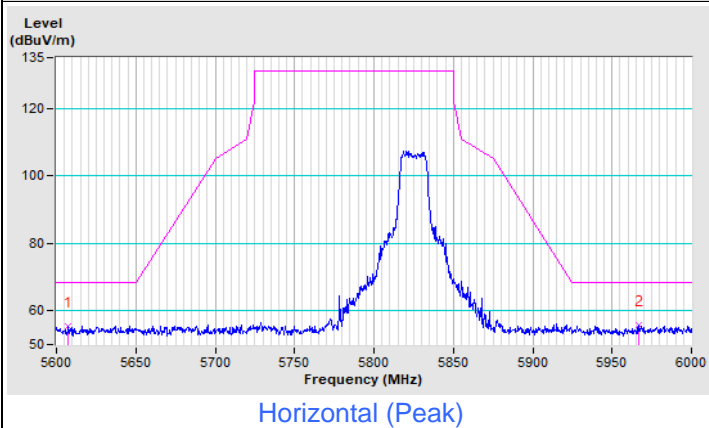
802.11a Channel 149



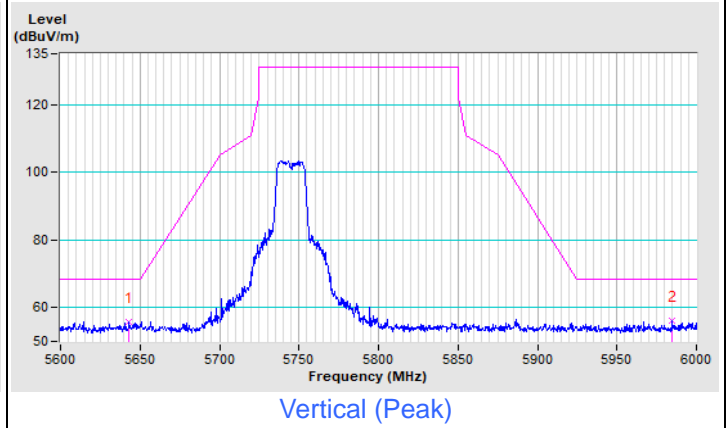
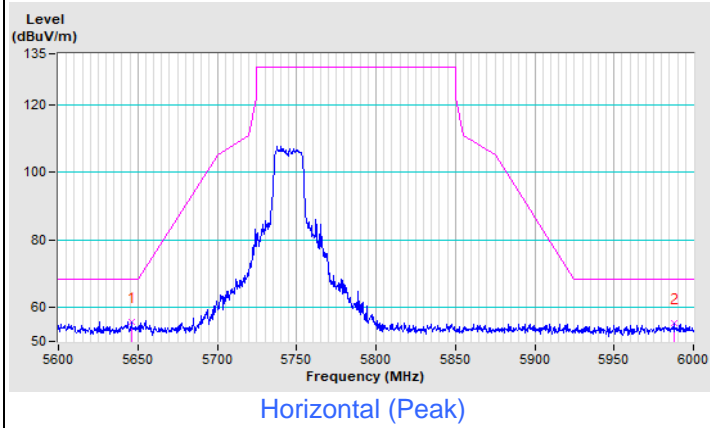
802.11a Channel 157



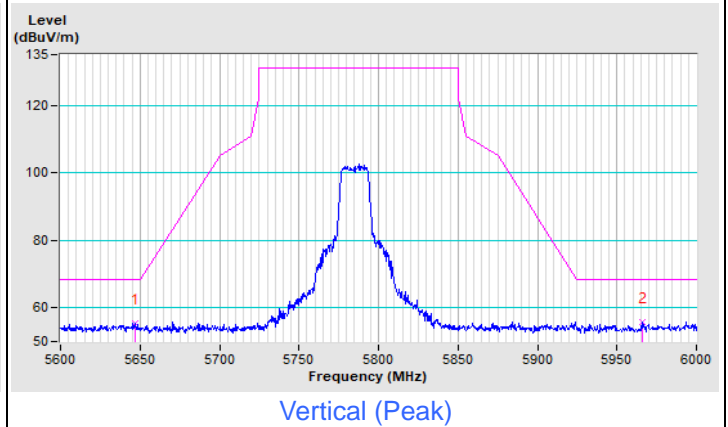
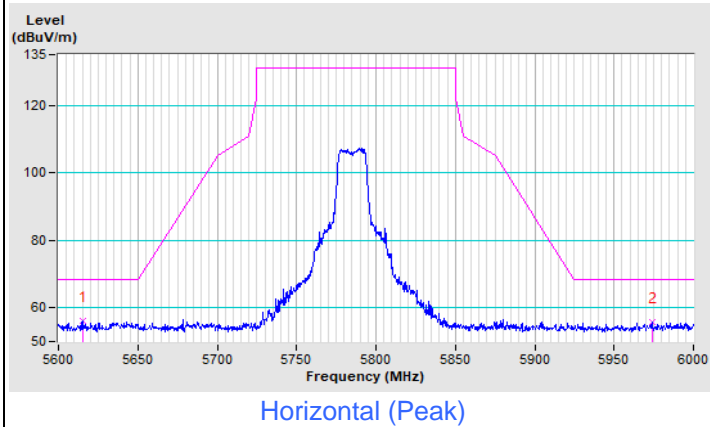
802.11a Channel 165



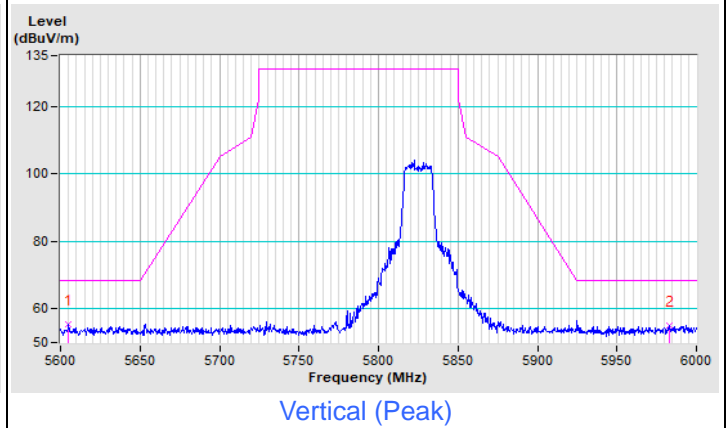
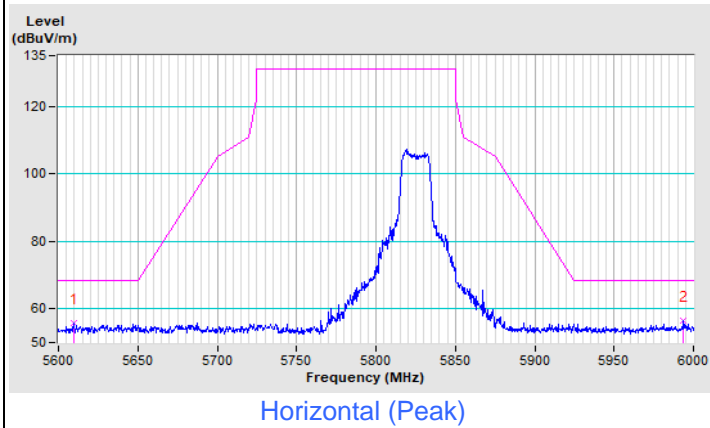
802.11ac (VHT20) Channel 149



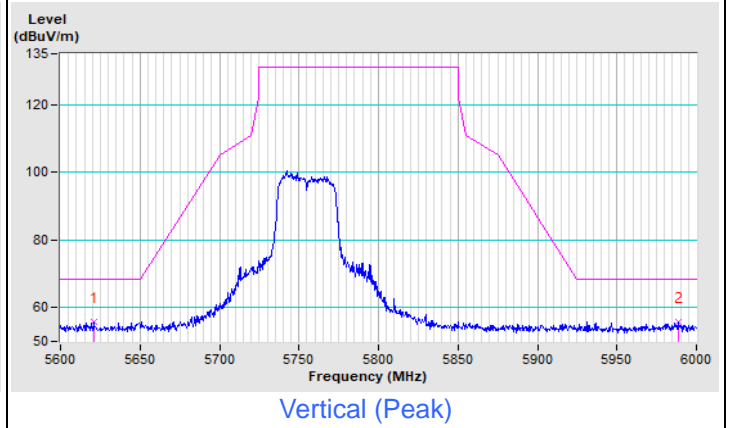
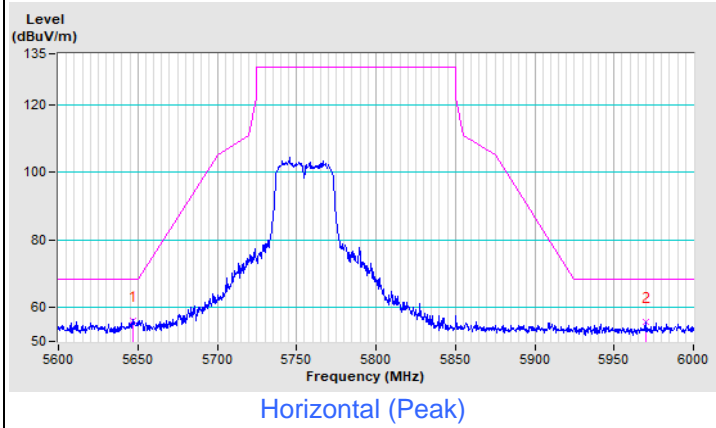
802.11ac (VHT20) Channel 157



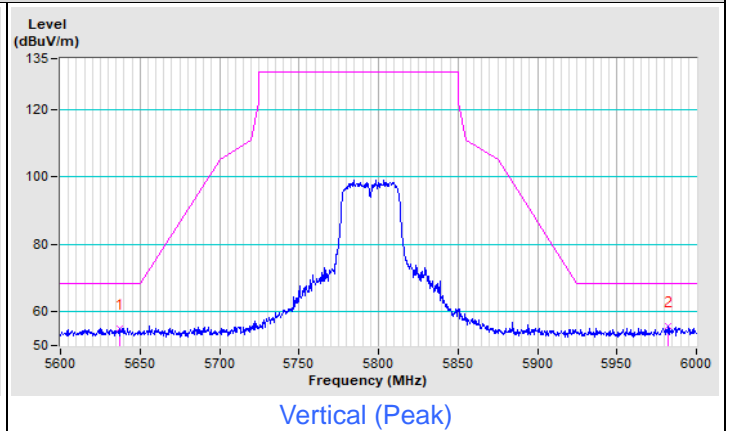
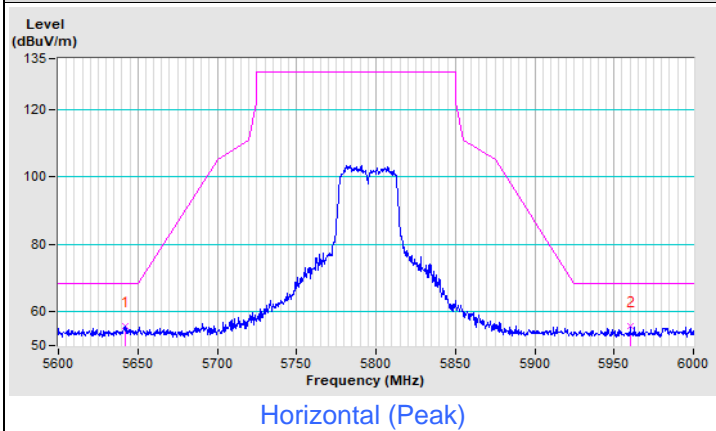
802.11ac (VHT20) Channel 165



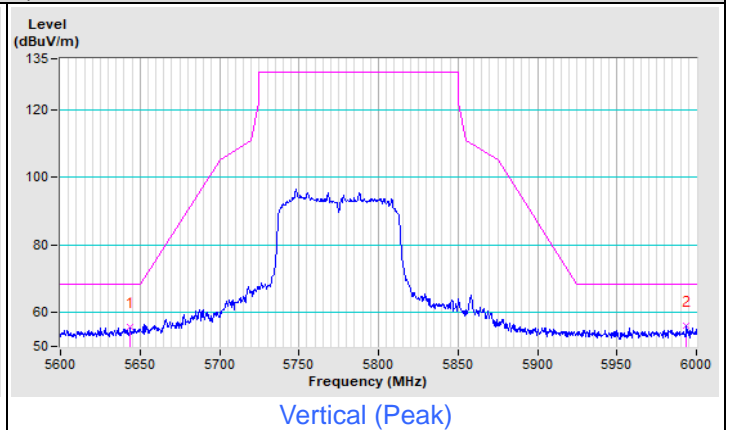
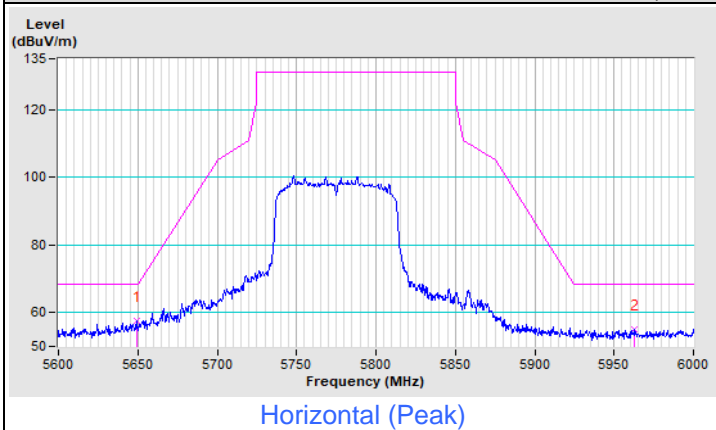
802.11ac (VHT40) Channel 151



802.11ac (VHT40) Channel 159



802.11ac (VHT80) Channel 155



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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

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

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