



FCC Test Report

Equipment : R610 Access Point
Brand Name : Ruckus
Model No. : R610
FCC ID : S9GR610
Standard : 47 CFR FCC Part 15.407
Operating Band : 5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
Applicant : Ruckus Wireless, Inc.
350 West Java Drive Sunnyvale, California 94089 U.S.A
Manufacturer : Ruckus Wireless, Inc.
350 West Java Drive Sunnyvale, California 94089 U.S.A
Function : Outdoor; Indoor; Fixed P2P
 Client
TPC Function : TPC

The product sample received on Jul. 25, 2016 and completely tested on Sep. 12, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.


Cliff Chang
SPORTON INTERNATIONAL INC.





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Summary of Test Result

| Conformance Test Specifications | | | |
|---------------------------------|------------------|--------------------------------|----------|
| Report Clause | Ref. Std. Clause | Description | Result |
| 1.1.3 | 15.203 | Antenna Requirement | Complied |
| 3.1 | 15.407(a) | Emission Bandwidth | Complied |
| 3.2 | 15.407(a) | Maximum Conducted Output Power | Complied |
| 3.3 | 15.407(a) | Peak Power Spectral Density | Complied |
| 3.4 | 15.407(b) | Unwanted Emissions | Complied |



1 General Description

1.1 Information

1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|-------------------------|---------------------|----------------|
| 5150-5250 | a, n (HT20), ac (VHT20) | 5180-5240 | 36-48 [4] |
| 5250-5350 | | 5260-5320 | 52-64 [4] |
| 5470-5725 | | 5500-5720 | 100-140 [12] |
| 5725-5850 | | 5745-5825 | 149-165 [5] |
| 5150-5250 | n (HT40), ac (VHT40) | 5190-5230 | 38-46 [2] |
| 5250-5350 | | 5270-5310 | 54-62 [2] |
| 5470-5725 | | 5510-5720 | 102-134 [6] |
| 5725-5850 | | 5755-5795 | 151-159 [2] |
| 5150-5250 | ac (VHT80) | 5210 | 42 [1] |
| 5250-5350 | | 5290 | 58 [1] |
| 5470-5725 | | 5530-5690 | 106-122 [3] |
| 5725-5850 | | 5775 | 155 [1] |

| Band | Mode | BWch (MHz) | Nant |
|------|----------|------------|------|
| 5.2G | 11a | 20 | 3 |
| 5.3G | 11a | 20 | 3 |
| 5.6G | 11a | 20 | 3 |
| 5.8G | 11a | 20 | 3 |
| 5.2G | HT20 | 20 | 3 |
| 5.3G | HT20 | 20 | 3 |
| 5.6G | HT20 | 20 | 3 |
| 5.8G | HT20 | 20 | 3 |
| 5.2G | HT20,BF | 20 | 3 |
| 5.3G | HT20,BF | 20 | 3 |
| 5.6G | HT20,BF | 20 | 3 |
| 5.8G | HT20,BF | 20 | 3 |
| 5.2G | VHT20 | 20 | 3 |
| 5.3G | VHT20 | 20 | 3 |
| 5.6G | VHT20 | 20 | 3 |
| 5.8G | VHT20 | 20 | 3 |
| 5.2G | VHT20,BF | 20 | 3 |



| | | | |
|------|----------|----|---|
| 5.3G | VHT20,BF | 20 | 3 |
| 5.6G | VHT20,BF | 20 | 3 |
| 5.8G | VHT20,BF | 20 | 3 |
| 5.2G | HT40 | 40 | 3 |
| 5.3G | HT40 | 40 | 3 |
| 5.6G | HT40 | 40 | 3 |
| 5.8G | HT40 | 40 | 3 |
| 5.2G | HT40,BF | 40 | 3 |
| 5.3G | HT40,BF | 40 | 3 |
| 5.6G | HT40,BF | 40 | 3 |
| 5.8G | HT40,BF | 40 | 3 |
| 5.2G | VHT40 | 40 | 3 |
| 5.3G | VHT40 | 40 | 3 |
| 5.6G | VHT40 | 40 | 3 |
| 5.8G | VHT40 | 40 | 3 |
| 5.2G | VHT40,BF | 40 | 3 |
| 5.3G | VHT40,BF | 40 | 3 |
| 5.6G | VHT40,BF | 40 | 3 |
| 5.8G | VHT40,BF | 40 | 3 |
| 5.2G | VHT80 | 80 | 3 |
| 5.3G | VHT80 | 80 | 3 |
| 5.6G | VHT80 | 80 | 3 |
| 5.8G | VHT80 | 80 | 3 |
| 5.2G | VHT80,BF | 80 | 3 |
| 5.3G | VHT80,BF | 80 | 3 |
| 5.6G | VHT80,BF | 80 | 3 |
| 5.8G | VHT80,BF | 80 | 3 |

Note:

- ◆ 5.2G/5.2G-I(IC) is the 5.2GHz Band (5.15-5.25GHz).
- ◆ 5.3G/5.3G-I(IC) is the 5.3GHz Band (5.25-5.35GHz).
- ◆ 5.6G is the 5.6GHz Band (5.47-5.725GHz) or w/o TDWR (5.47-5.6GHz and 5.65-5.725GHz).
- ◆ 5.6G-I(IC) is the 5.6GHz IC Band w/o TDWR (5.47-5.6GHz and 5.65-5.725GHz).
- ◆ 5.8G/5.8G-I(IC) is the 5.8GHz Band (5.725-5.850GHz).
- ◆ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ◆ BWch is the nominal channel bandwidth.
- ◆ Nss-Min is the minimum number of spatial streams.
- ◆ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.



1.1.2 Table for 80+80 MHz

| Type | Channel No. | Frequency |
|------|-------------|---------------|
| 1 | 42+106 | 5210+5530 MHz |
| 2 | 42+122 | 5210+5610 MHz |
| 3 | 42+138 | 5210+5690 MHz |
| 4 | 58+106 | 5290+5530 MHz |
| 5 | 58+122 | 5290+5610 MHz |
| 6 | 58+138 | 5290+5690 MHz |
| 7 | 58+155 | 5290+5775 MHz |
| 8 | 106+138 | 5530+5690 MHz |
| 9 | 106+155 | 5530+5775 MHz |
| 10 | 122+155 | 5610+5775 MHz |
| 11 | 138+155 | 5690+5775 MHz |
| 12 | 42+58 | 5210+5290 MHz |
| 13 | 106+122 | 5530+5610 MHz |
| 14 | 122+138 | 5610+5690 MHz |

1.1.3 Antenna Information

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | |
|------|--------|------------|--------------|-----------|------------|------|
| | | | | | 2.4GHz | 5GHz |
| 1 | Ruckus | R610 | PIFA Antenna | I-PEX | 1 | 3 |
| 2 | Ruckus | R610 | PIFA Antenna | I-PEX | 1 | 3 |
| 3 | Ruckus | R610 | PIFA Antenna | I-PEX | 1 | 3 |

Note: 1. The EUT has three antennas.

2. The EUT is with 3 antennas. Two of the antennas' polarity is vertical and the other antenna's polarity is Horizontal which is 3T2S, the array gain is 1.76dBi.

The 80+80MHz mode which is 2T2S(Chain 1 + Chain 3), the array gain is 0 dBi.

The non-beamforming 80+80MHz mode=beamforming 80+80MHz mode.

<For 2.4GHz Band>

For IEEE 802.11b/g/n/ac mode <3TX/3RX>:

Chain 1, Chain 2 and Chain 3 will transmit/receive the same signal simultaneously.

Chain 1, Chain 2 and Chain 3 can be used as transmitting/receiving antennas.

<For 5GHz Band>

For IEEE 802.11a/n/ac mode <3TX/3RX>:

Chain 1, Chain 2 and Chain 3 will transmit/receive the same signal simultaneously.

Chain 1, Chain 2 and Chain 3 can be used as transmitting/receiving antennas.

For IEEE 802.11ac 80+80MHz <2TX/2RX>:

Chain 1 and Chain 3 will transmit/receive the same signal simultaneously.

Chain 1 and Chain 3 can be used as transmitting/receiving antennas.





1.1.4 Mode Test Duty Cycle

| Mode | DC | T(s) | VBW(Hz) ≥ 1/T |
|----------|-------|--------|---------------|
| VHT80 | 0.948 | 1.137m | 1k |
| VHT80,BF | 0.951 | 1.153m | 1k |

1.1.5 EUT Operational Condition

| | | | |
|-----------------------------|--|--------------------------|----------------------|
| EUT Power Type | From Power Adapter or PoE | | |
| Beamforming Function | <input checked="" type="checkbox"/> With beamforming for 802.11n/ac in 2.4GHz/5GHz | <input type="checkbox"/> | Without beamforming |
| Weather Band | <input checked="" type="checkbox"/> With 5600~5650MHz | <input type="checkbox"/> | Without 5600~5650MHz |

1.1.6 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR672501-01

Below is the table for the change of the product with respect to the original one.

| Modifications | Performance Checking |
|---|--|
| Add fourteen sets 80+80 Mode, please refer to the setcion 1.1.2 for detail. | <ol style="list-style-type: none"> Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Unwanted Emissions (Above 1GHz) |



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 789033 D02 v01r03
- ◆ FCC KDB 644545 D03 v01
- ◆ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

| Testing Location | | |
|-------------------------------------|--------|---|
| <input type="checkbox"/> | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055 |
| <input checked="" type="checkbox"/> | JHUBEI | ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085 |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
|----------------|---------------|------------------------|------------------|-------------------------------|
| RF Conducted | TH01-CB | Eddie Weng | 25°C / 60% | Sep. 05, 2016 ~ Sep. 12, 2016 |
| Radiated | 03CH01-CB | Nyle Chang & Zero Chen | 22°C / 54% | Aug. 31, 2016 ~ Sep. 08, 2016 |

Test site Designation No. TW0006 with FCC
Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items | Uncertainty | Remark |
|-----------------------------------|------------------------|--------------------------|
| Radiated Emission (1GHz ~ 18GHz) | 3.7 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 3.5 dB | Confidence levels of 95% |
| Conducted Emission | 1.7 dB | Confidence levels of 95% |
| Output Power Measurement | 1.33 dB | Confidence levels of 95% |
| Power Density Measurement | 1.27 dB | Confidence levels of 95% |
| Bandwidth Measurement | 9.74 x10 ⁻⁸ | Confidence levels of 95% |



2 Test Configuration of EUT

2.1 Test Channel Mode

| Band | Mode | BWch (MHz) | Nss-Min | Nant | Ch. (MHz) | Range | Power Setting |
|------|----------|------------|---------|--------|-------------|-------|---------------|
| 5.2G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5210,5530 | S | 18 |
| 5.2G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5210,5610 | S | 18 |
| 5.2G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5210,5690 | S | 18 |
| 5.2G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5210,5290 | S | 17 |
| 5.3G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5290,5530 | S | 18 |
| 5.3G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5290,5610 | S | 18.5 |
| 5.3G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5290,5690 | S | 18.5 |
| 5.3G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5290,5775 | S | 18.5 |
| 5.3G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5210,#5290 | S | 17 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 2(1,3) | #5530,#5690 | C | 19 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5530,5775 | S | 19 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5610,5775 | S | 22 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(3) | #5690,5775 | C | 22 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 2(1,3) | #5530,#5610 | S | 19 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 2(1,3) | #5610,#5690 | C | 20.5 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5210,#5530 | S | 18 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5210,#5610 | S | 18 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5210,#5690 | C | 18 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5290,#5530 | S | 18 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5290,#5610 | S | 18.5 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5290,#5690 | C | 18.5 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | #5530,#5610 | S | 19 |
| 5.6G | VHT80+80 | 80 | 1,(M0) | 1(1) | #5610,#5690 | C | 22 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(3) | 5610,#5690 | C | 22 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5210,#5690 | C | 18 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5290,#5690 | C | 18.5 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5290,#5775 | S | 18.5 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(1) | #5530,#5690 | C | 19 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5530,#5775 | S | 19 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(1) | 5610,#5775 | S | 22 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 2(1,3) | #5690,#5775 | C | 22 |
| 5.8G | VHT80+80 | 80 | 1,(M0) | 1(1) | #5610,#5690 | C | 20.5 |

2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density |
| Test Condition | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Unwanted Emissions |
| Test Condition | Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| Operating Mode > 1GHz | CTX |
| 1 | Place EUT in Y axis |
| 2 | Place EUT in Z axis |
| Mode 2 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode. | |

2.3 EUT Operation during Test

For non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed "Lantest.exe " to link with the remote workstation to receive and transmit packet by RX Device and transmit duty cycle no less 98%



2.4 Accessories

| Accessories | | | |
|---------------------|------------|---------------|--|
| Equipment Name | Brand Name | Model Name | Rating |
| Adapter | Ruckus | WGF-1200200T3 | Input: 100-240V~, 50/60Hz, 0.6A Output: 12.0V, 2.0A |
| PoE | Ruckus | 740-64214-001 | Input: 100-240V~50/60Hz 0.75A MAX Output: 48V, 0.5A |
| Other | | | |
| Wall-mounted rack*1 | | | |

2.5 Support Equipment

For Test Site No: 03CH01-CB (above 1GHz)

<For Non-Beamforming Mode>

| Support Equipment | | | | |
|-------------------|-----------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB | DELL | E4300 | DoC |

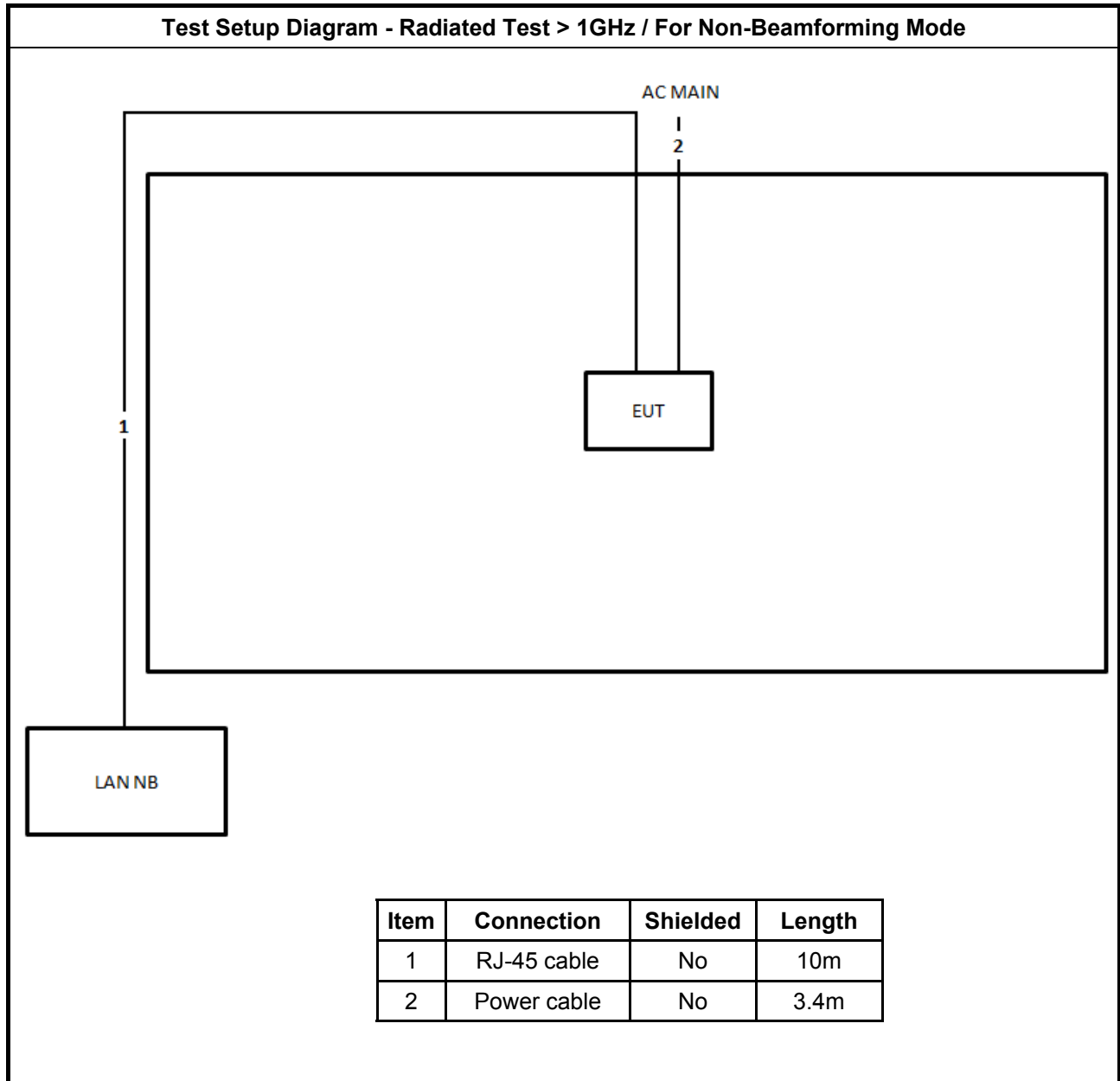
<For Beamforming Mode>

| Support Equipment | | | | |
|-------------------|-----------|------------|------------|---------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB | DELL | E4300 | DoC |
| 2 | NB | DELL | E4300 | DoC |
| 3 | RX Device | Ruckus | R610 | S9GR610 |

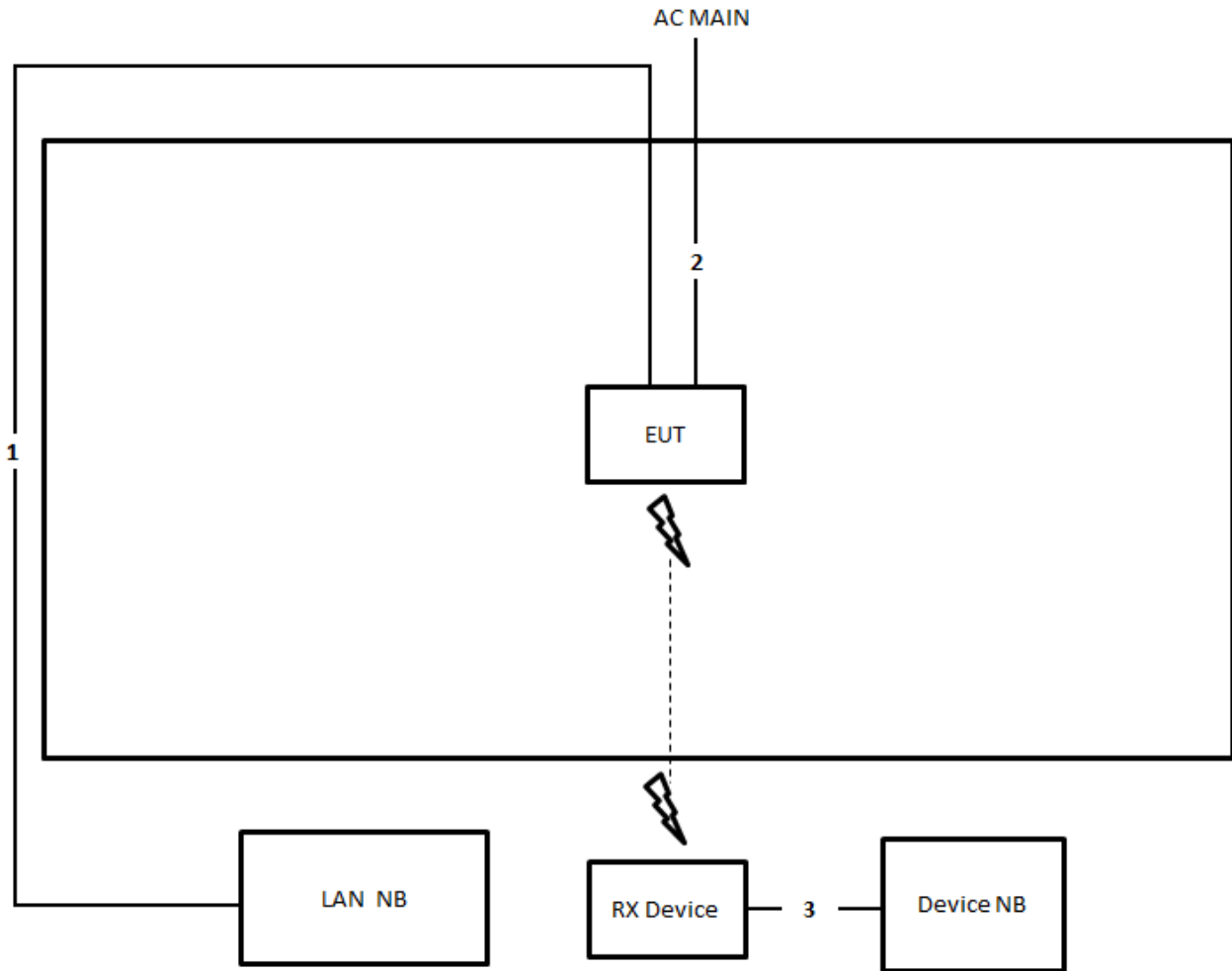
For Test Site No: TH01-CB

| Support Equipment | | | | |
|-------------------|-----------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | NB | DELL | E4300 | DoC |

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test > 1GHz / For Beamforming Mode



| Item | Connection | Shielded | Length |
|------|-------------|----------|--------|
| 1 | RJ-45 Cable | No | 10m |
| 2 | Power cable | No | 3.4m |
| 3 | RJ-45 Cable | No | 1.5m |

3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

| Emission Bandwidth Limit | |
|-------------------------------------|---|
| UNII Devices | |
| <input checked="" type="checkbox"/> | For the 5.15-5.25 GHz band, N/A |
| <input checked="" type="checkbox"/> | For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| <input checked="" type="checkbox"/> | For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| <input checked="" type="checkbox"/> | For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz. |
| LE-LAN Devices | |
| <input type="checkbox"/> | For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| <input type="checkbox"/> | For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| <input type="checkbox"/> | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| <input type="checkbox"/> | For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz. |

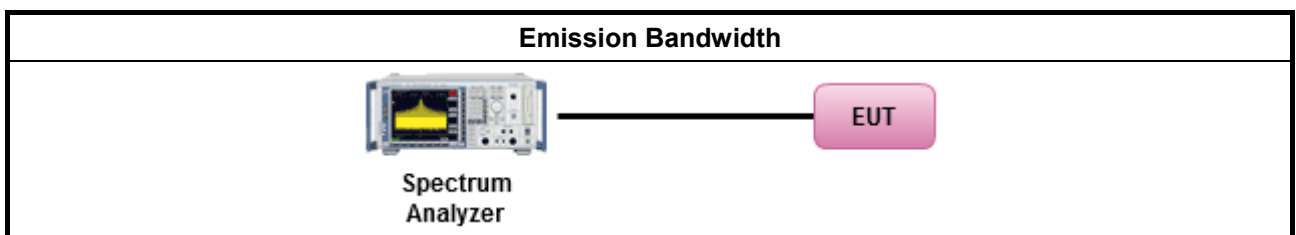
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

| Test Method | |
|--|---|
| <ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: | |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement. |
| <input type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |
| <input type="checkbox"/> | Refer as IC RSS-Gen, clause 4.6 for bandwidth testing. |

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | |
|---|--|
| UNII Devices | |
| <input checked="" type="checkbox"/> For the 5.15-5.25 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] ▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ ▪ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. ▪ Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$. |
| <input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$. | |
| <input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$. | |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. |
| LE-LAN Devices | |
| <input type="checkbox"/> For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. | |
| <input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz | |
| <input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz | |
| <input type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. |
| P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi. | |

3.2.2 Measuring Instruments

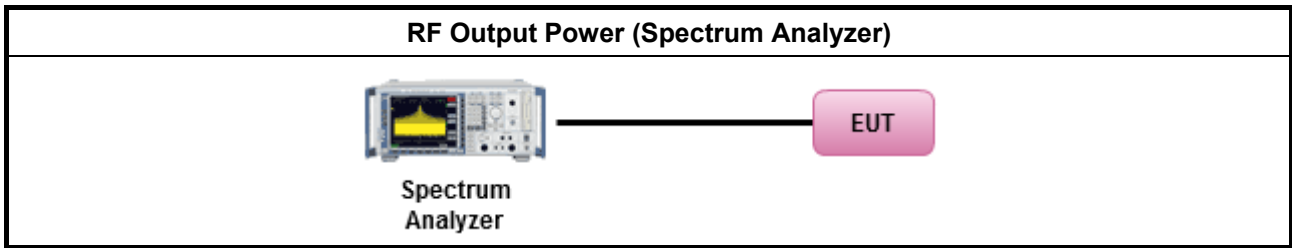
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

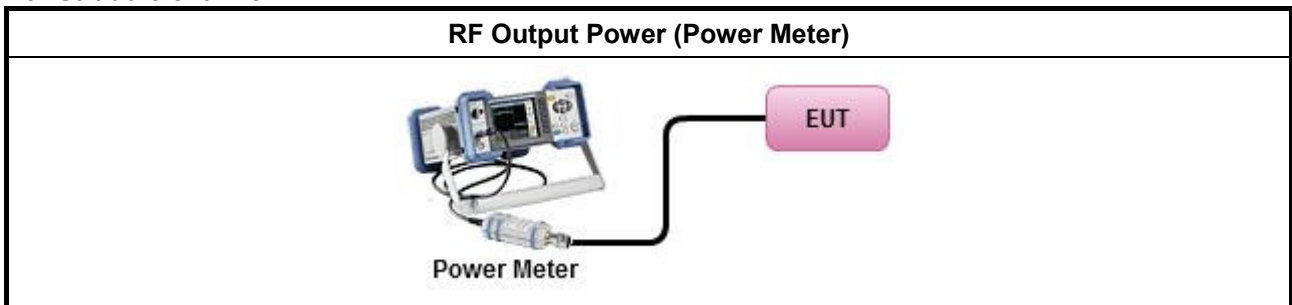
| Test Method | |
|--|--|
| <ul style="list-style-type: none"> ▪ Maximum Conducted Output Power | |
| | [duty cycle ≥ 98% or external video / power trigger] |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). for straddle channel |
| <input type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) |
| duty cycle < 98% and average over on/off periods with duty factor | |
| <input type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| <input type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| Wideband RF power meter and average over on/off periods with duty factor | |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter). for other channel |
| <ul style="list-style-type: none"> ▪ For conducted measurement. | |
| <ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. | |
| <ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ | |

3.2.4 Test Setup

For other channel



For Straddle channel



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 Peak Power Spectral Density Limit

| Peak Power Spectral Density Limit | |
|---|--|
| UNII Devices | |
| <input checked="" type="checkbox"/> For the 5.15-5.25 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$. |
| <input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$. | |
| <input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$. | |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| LE-LAN Devices | |
| <input type="checkbox"/> For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz. | |
| <input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz. | |
| | <ul style="list-style-type: none"> ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta-8$) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 ($\theta-40$) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$ |
| <input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz. | |
| <input type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| <p>PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.</p> | |

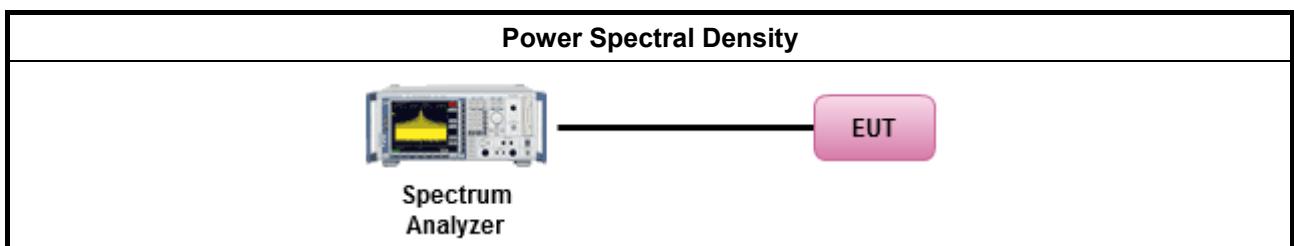
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

| Test Method | |
|---|--|
| <ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: | |
| <input type="checkbox"/> | Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth |
| [duty cycle ≥ 98% or external video / power trigger] | |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). |
| <input type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) |
| duty cycle < 98% and average over on/off periods with duty factor | |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| <input type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| <ul style="list-style-type: none"> ▪ For conducted measurement. | |
| <ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: | |
| <input checked="" type="checkbox"/> | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/> | Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| <input type="checkbox"/> | Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |
| <ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ | |

3.3.4 Test Setup





3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 Transmitter Radiated Unwanted Emissions Limit

| Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit | | | |
|---|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz) | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 |
| 1.705~30.0 | 30 | 29 | 30 |
| 30~88 | 100 | 40 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216~960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| Un-restricted band emissions above 1GHz Limit | |
|---|---|
| Operating Band | Limit |
| 5.15 - 5.25 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.25 - 5.35 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.47 - 5.725 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.725 - 5.85 GHz | all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).



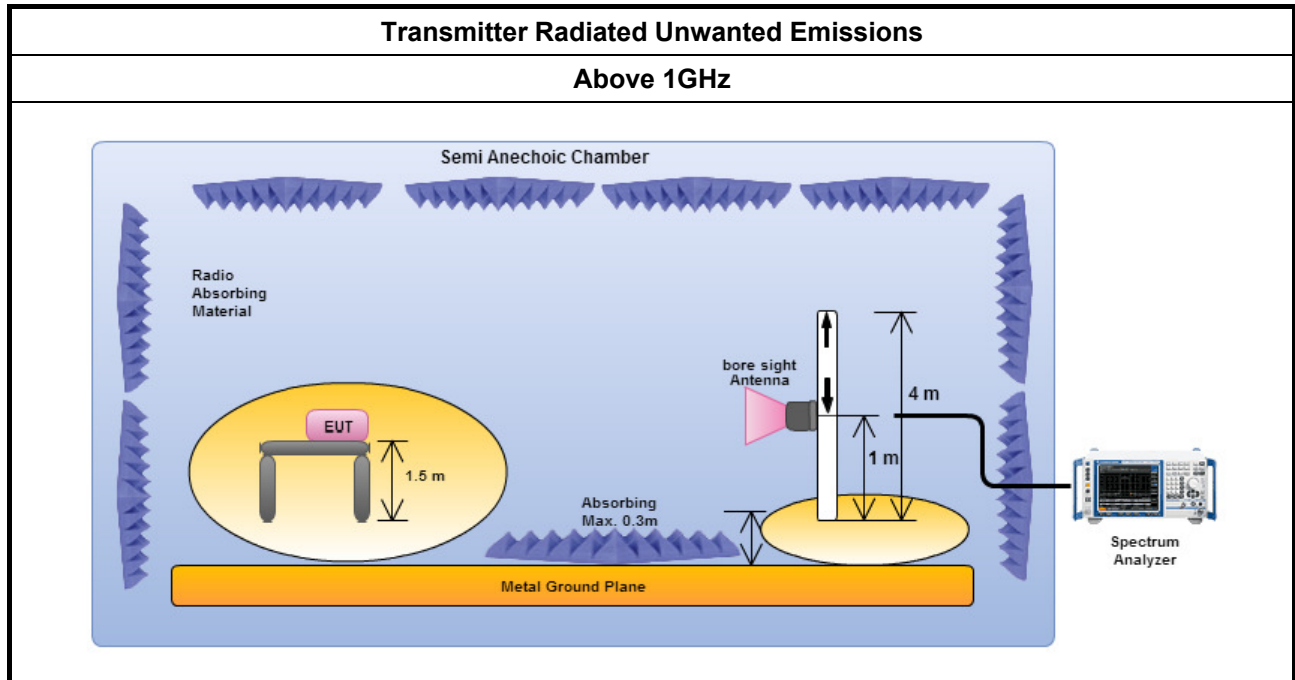
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

| Test Method | |
|-------------|---|
| | <ul style="list-style-type: none"> ▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). |
| | <ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. |
| | <ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> ▪ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands. ▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands. <ul style="list-style-type: none"> <input type="checkbox"/> Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging). <input checked="" type="checkbox"/> Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW). <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time. <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit. <input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit. |
| | <ul style="list-style-type: none"> ▪ For radiated measurement. <ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. |
| | <ul style="list-style-type: none"> ▪ The any unwanted emissions level shall not exceed the fundamental emission level. |
| | <ul style="list-style-type: none"> ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. |

3.4.4 Test Setup





3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|----------------------------|--------------|------------------|---------------|------------------|------------------|-----------------------|
| Horn Antenna | EMCO | 3115 | 00075790 | 750MHz ~ 18GHz | Oct. 22, 2015 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 25, 2016 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 18, 2016 | Radiation (03CH01-CB) |
| Pre-Amplifier | WM | TF-130N-R1 | 923365 | 26GHz ~ 40GHz | Nov. 13, 2015 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Oct. 27, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16 | N/A | 1 GHz ~ 18 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-17 | N/A | 1 GHz ~ 18 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-1 | N/A | 18GHz ~ 40 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-2 | N/A | 18GHz ~ 40 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| Test Software | Audix | E3 | 6.2009-10-7 | N/A | N/A | Radiation (03CH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | Dec. 09, 2015 | Conducted (TH01-CB) |
| Temp. and Humidity Chamber | Ten Billion | TTH-D3SP | TBN-931011 | -30~100 degree | Jun. 03, 2016 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-6 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-7 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-8 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-9 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| Power Sensor | Agilent | U2021XA | MY53410001 | 50MHz~18GHz | Nov. 02, 2015 | Conducted (TH01-CB) |

Note: Calibration Interval of instruments listed above is one year.



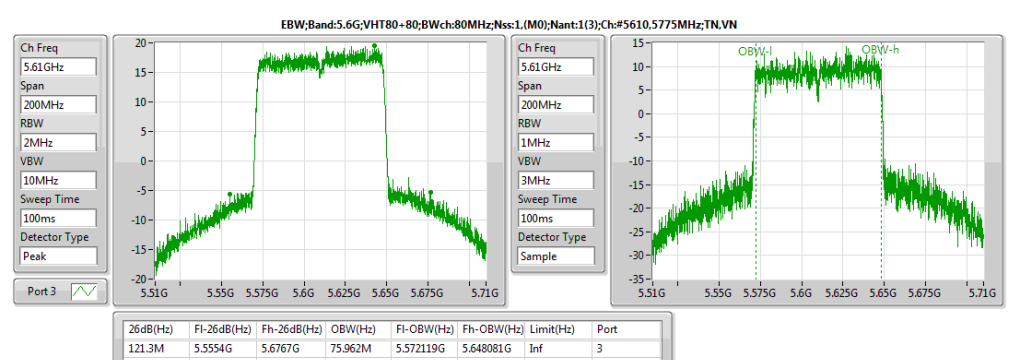
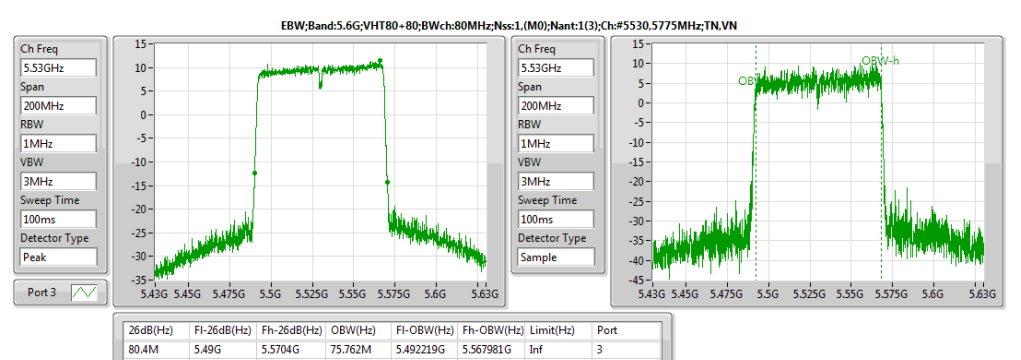
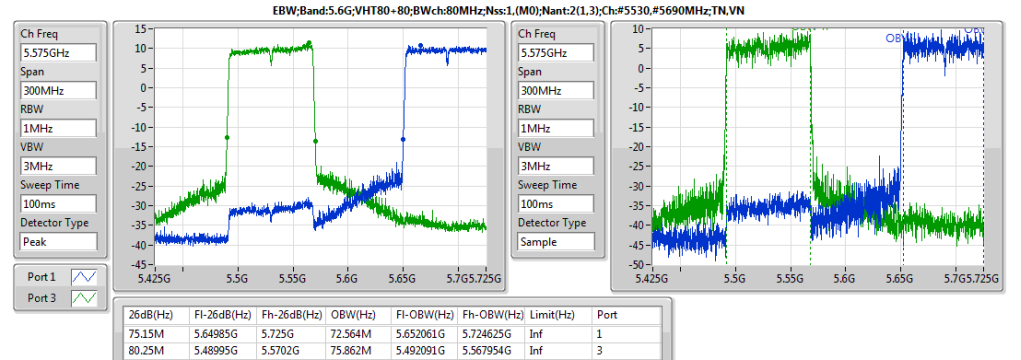
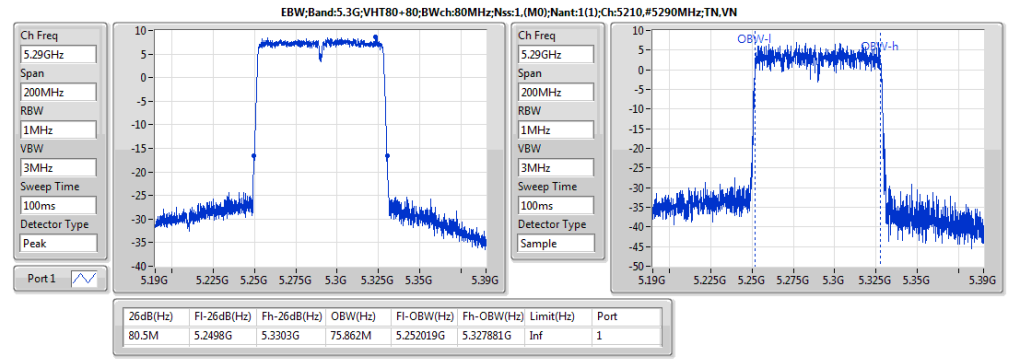
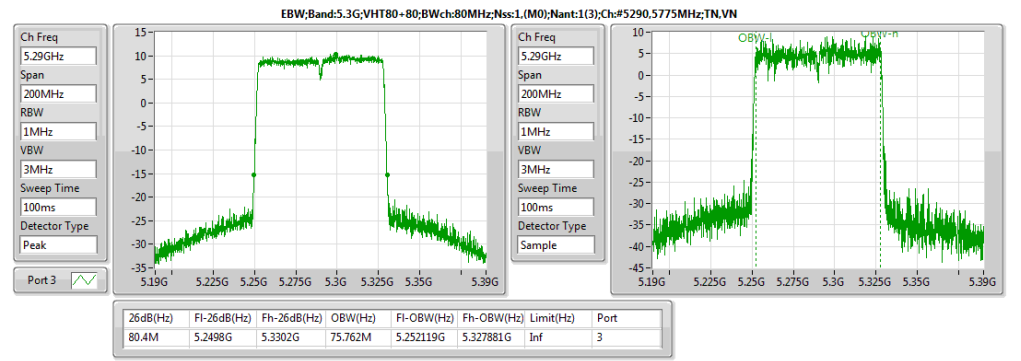
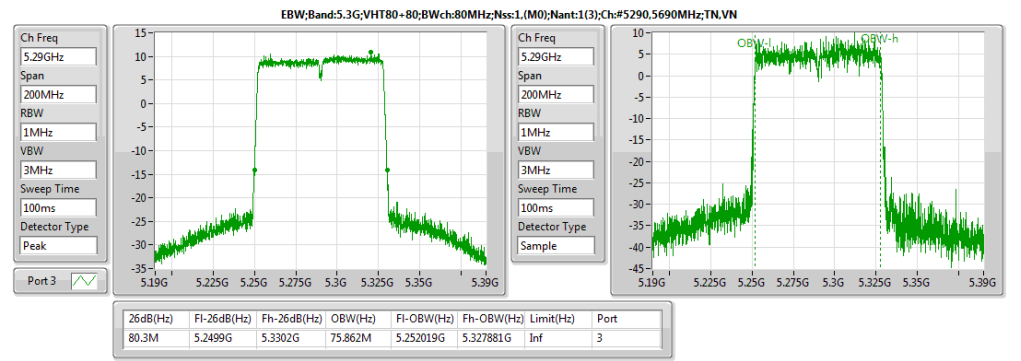
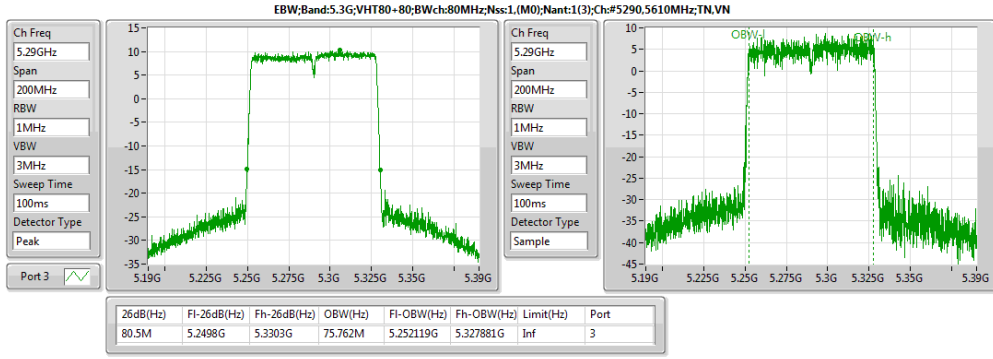
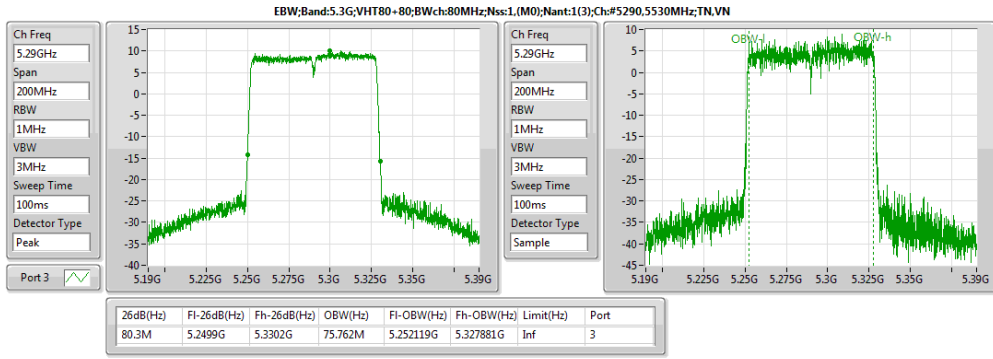
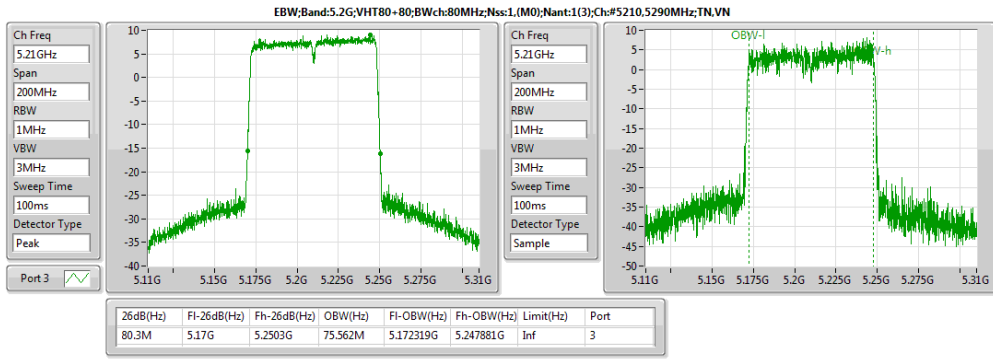
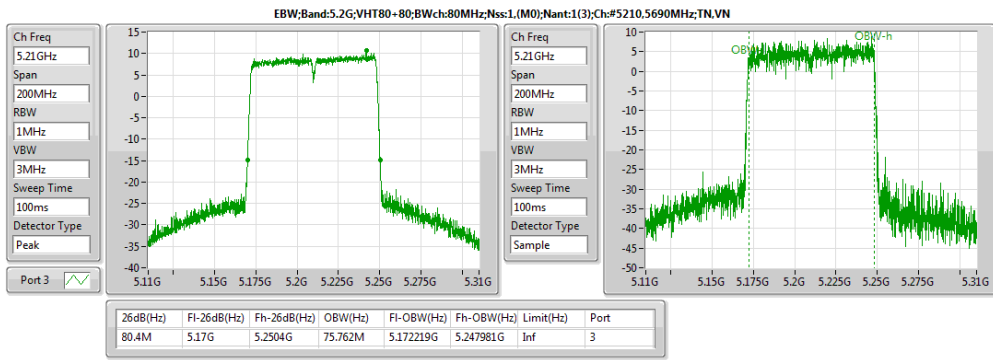
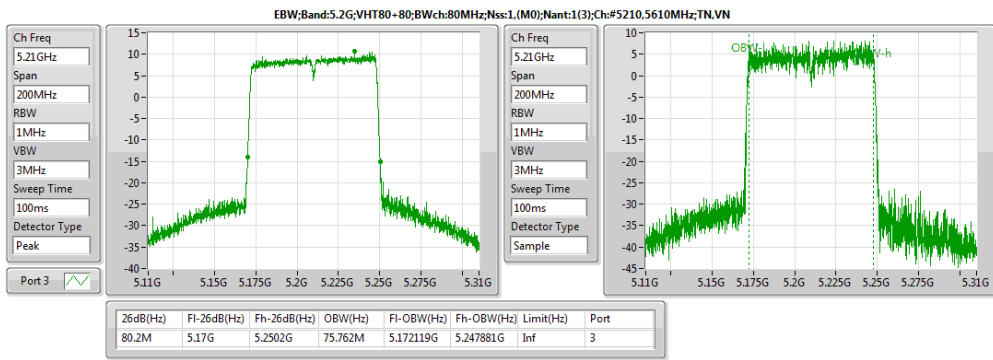
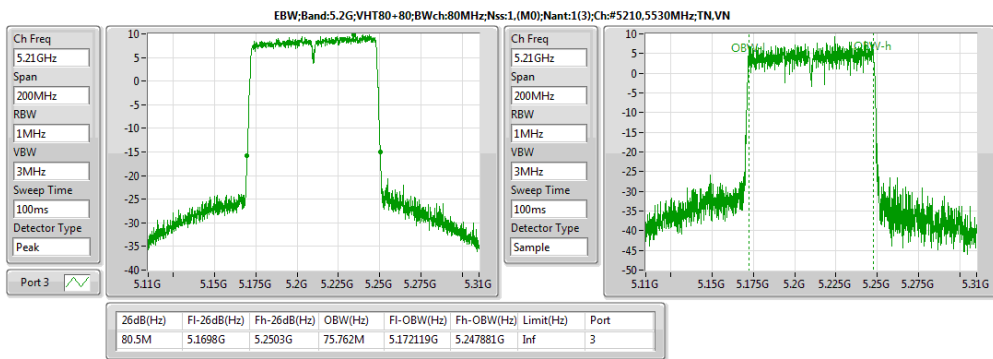
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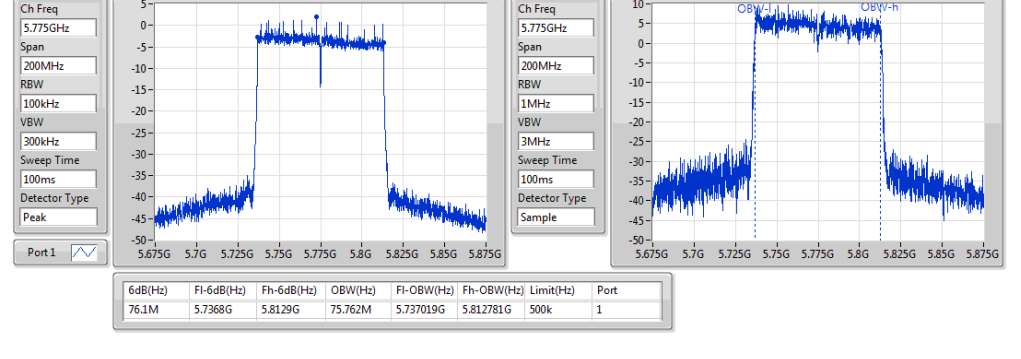
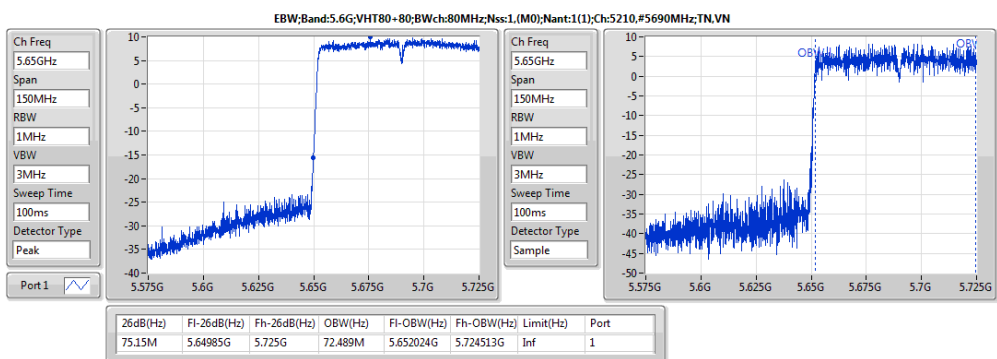
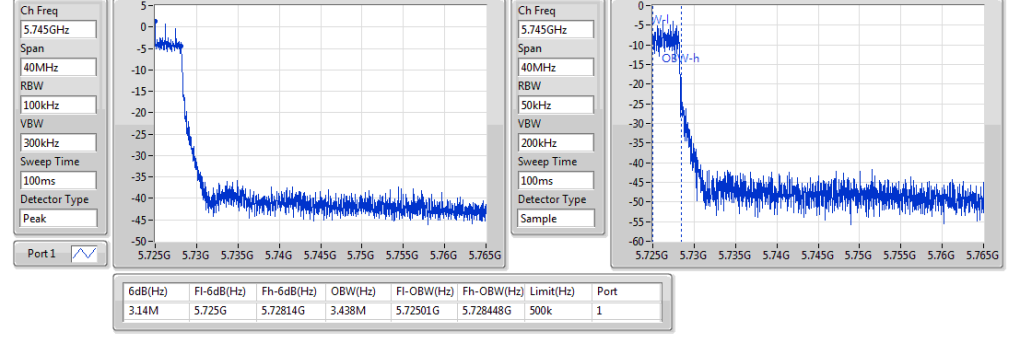
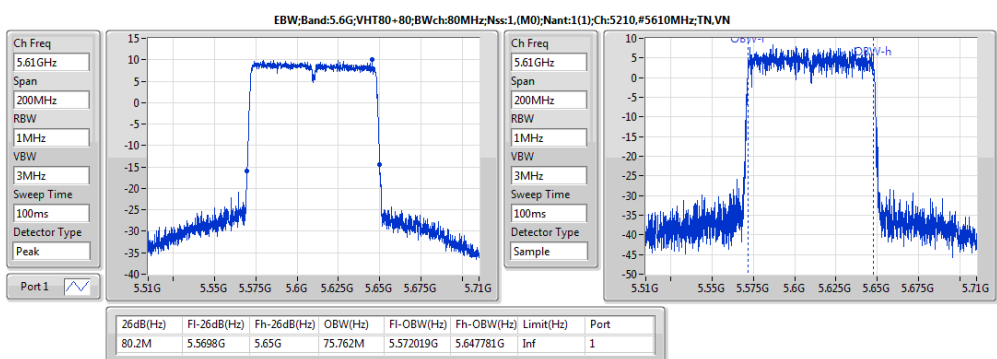
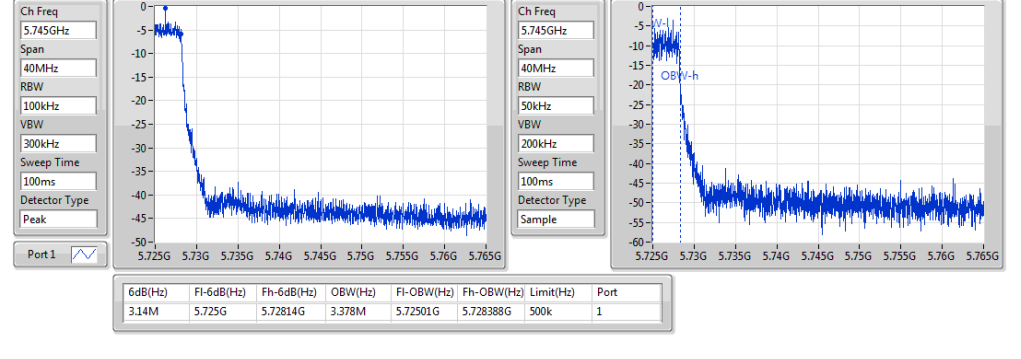
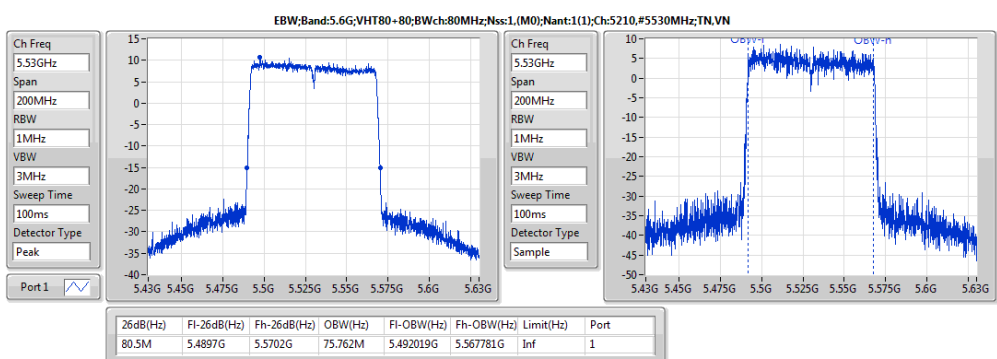
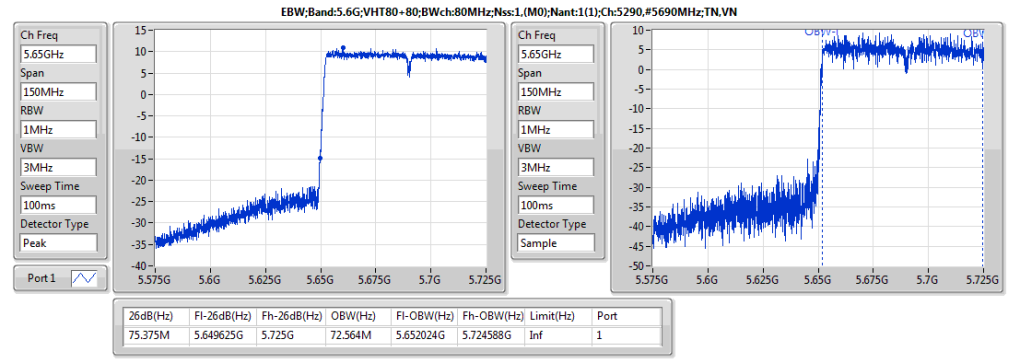
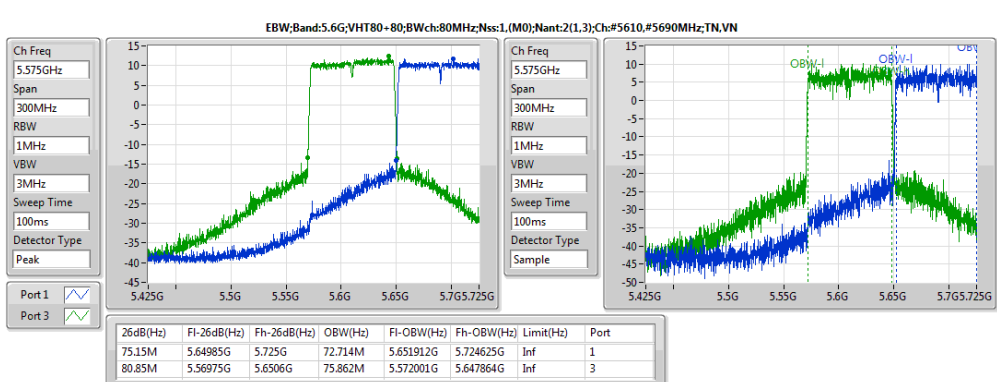
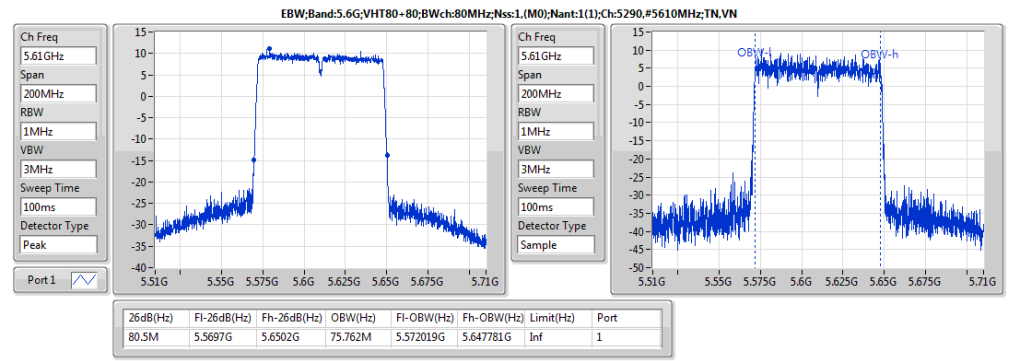
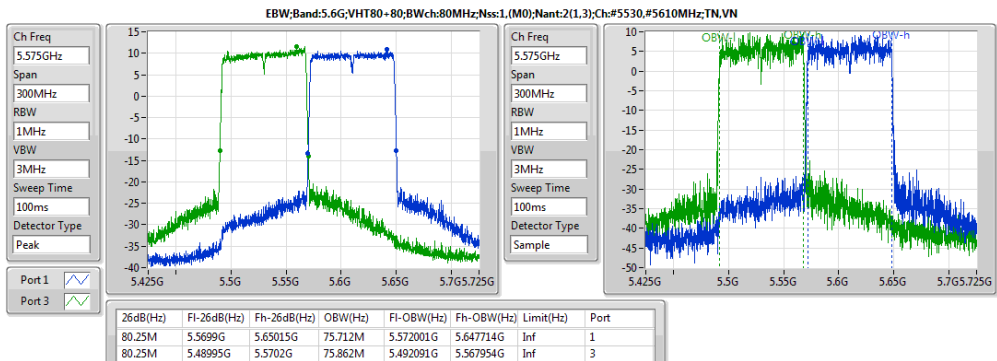
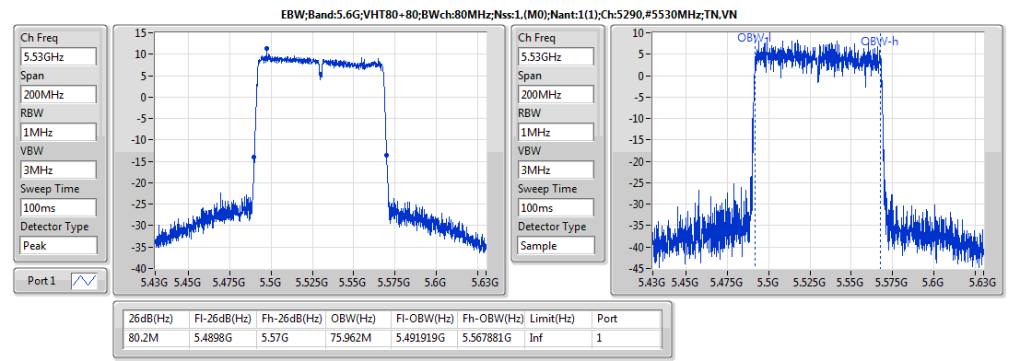
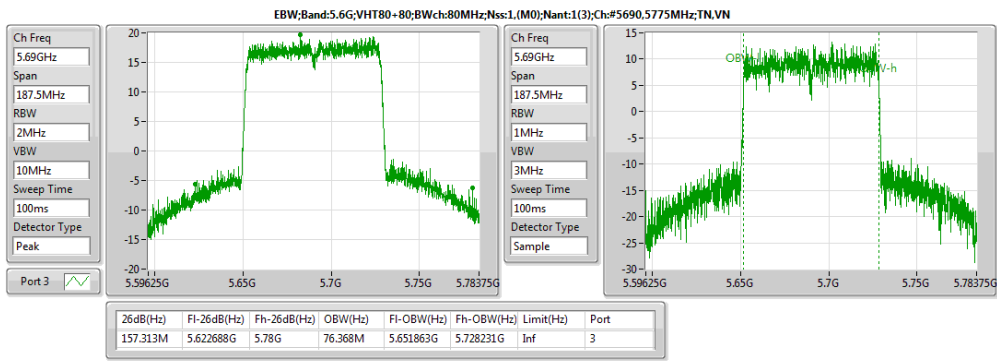
| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|-----------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3) | 80.5M | 75.762M | 75M8D1D | 80.2M | 75.562M |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3) | 80.5M | 75.862M | 75M9D1D | 80.3M | 75.762M |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(1) | 80.5M | 75.862M | 75M9D1D | 80.5M | 75.862M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 80.85M | 75.862M | 75M9D1D | 75.15M | 72.564M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3) | 157.313M | 76.368M | 76M4D1D | 80.4M | 75.762M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 80.85M | 75.862M | 75M9D1D | 75.15M | 72.564M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1) | 80.5M | 75.962M | 76M0D1D | 75.15M | 72.489M |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1) | 76.1M | 76.262M | 76M3D1D | 3.14M | 3.378M |
| 5.8G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 76.275M | 76.162M | 76M2D1D | 3.225M | 53.748M |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1) | 76.1M | 76.262M | 76M3D1D | 3.14M | 3.378M |

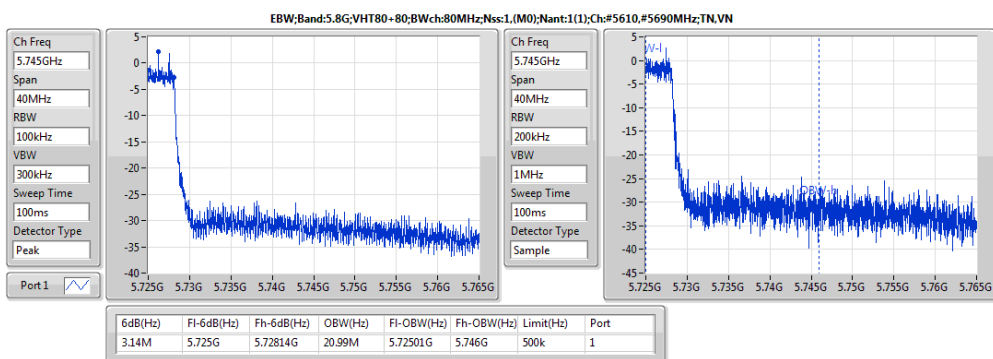
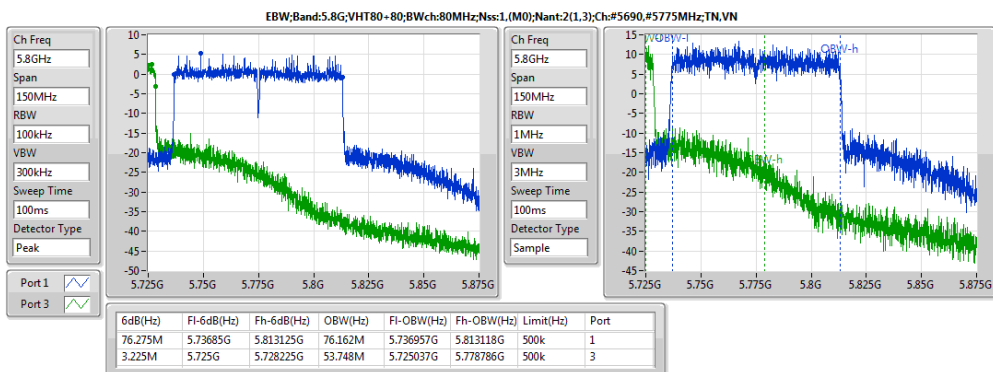
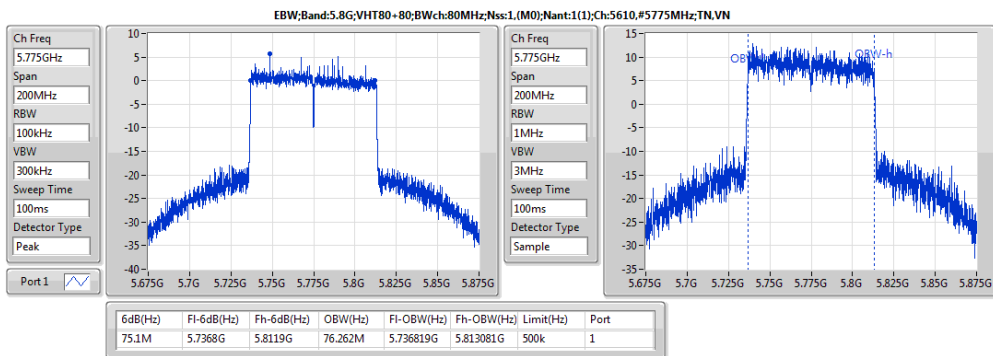
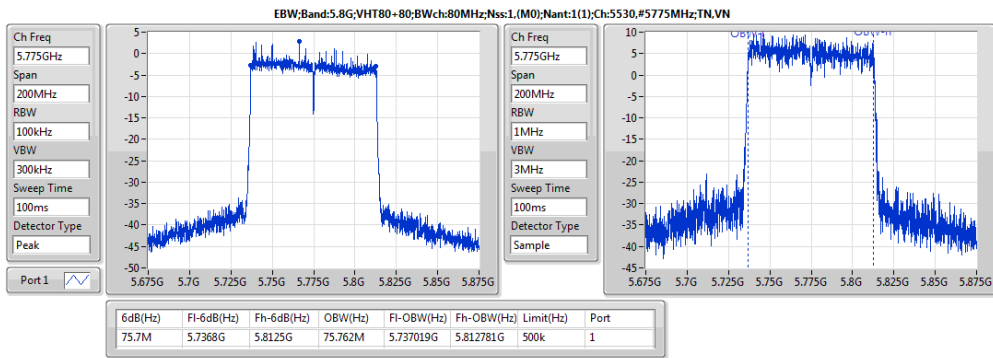
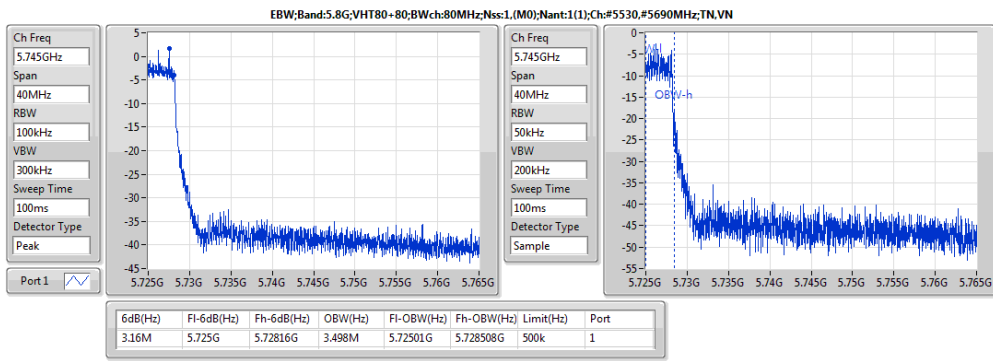


Result

| Mode | Result | Limit | P1-N dB (Hz) | P1-OBW (Hz) | P2-N dB (Hz) | P2-OBW (Hz) | P3-N dB (Hz) | P3-OBW (Hz) |
|---|--------|-------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5530 | Pass | Inf | | | | | 80.5M | 75.762M |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5610 | Pass | Inf | | | | | 80.2M | 75.762M |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5690 | Pass | Inf | | | | | 80.4M | 75.762M |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5290 | Pass | Inf | | | | | 80.3M | 75.562M |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5530 | Pass | Inf | | | | | 80.3M | 75.762M |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5610 | Pass | Inf | | | | | 80.5M | 75.762M |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5690 | Pass | Inf | | | | | 80.3M | 75.862M |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5775 | Pass | Inf | | | | | 80.4M | 75.762M |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5290 | Pass | Inf | 80.5M | 75.862M | | | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5530,#5690 | Pass | Inf | 75.15M | 72.564M | | | 80.25M | 75.862M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5530,5775 | Pass | Inf | | | | | 80.4M | 75.762M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5610,5775 | Pass | Inf | | | | | 121.3M | 75.962M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5690,5775 | Pass | Inf | | | | | 157.313M | 76.368M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5530,#5610 | Pass | Inf | 80.25M | 75.712M | | | 80.25M | 75.862M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5610,#5690 | Pass | Inf | 75.15M | 72.714M | | | 80.85M | 75.862M |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5530 | Pass | Inf | 80.5M | 75.762M | | | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5610 | Pass | Inf | 80.2M | 75.762M | | | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5690 | Pass | Inf | 75.15M | 72.489M | | | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5530 | Pass | Inf | 80.2M | 75.962M | | | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5610 | Pass | Inf | 80.5M | 75.762M | | | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5690 | Pass | Inf | 75.375M | 72.564M | | | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5690 | Pass | 500k | 3.14M | 3.378M | | | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5690 | Pass | 500k | 3.14M | 3.438M | | | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5775 | Pass | 500k | 76.1M | 75.762M | | | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5530,#5690 | Pass | 500k | 3.16M | 3.498M | | | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5530,#5775 | Pass | 500k | 75.7M | 75.762M | | | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5610,#5775 | Pass | 500k | 75.1M | 76.262M | | | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5690,#5775 | Pass | 500k | 76.275M | 76.162M | | | 3.225M | 53.748M |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5610,#5690 | Pass | 500k | 3.14M | 20.99M | | | | |









Summary

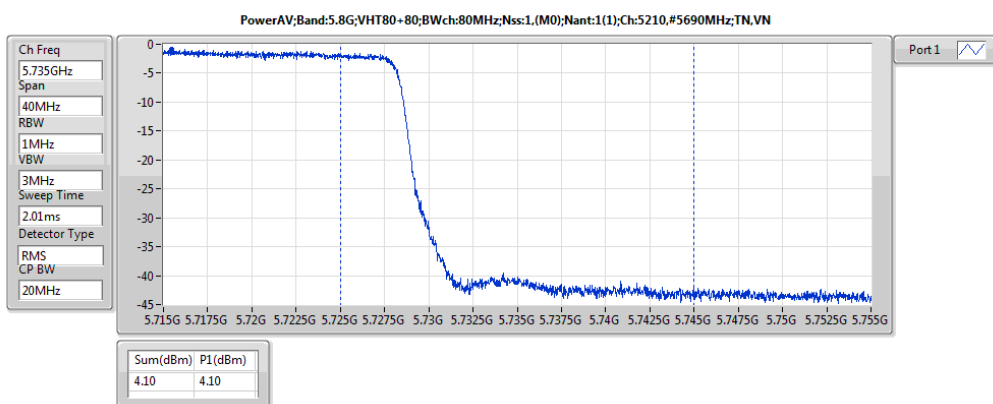
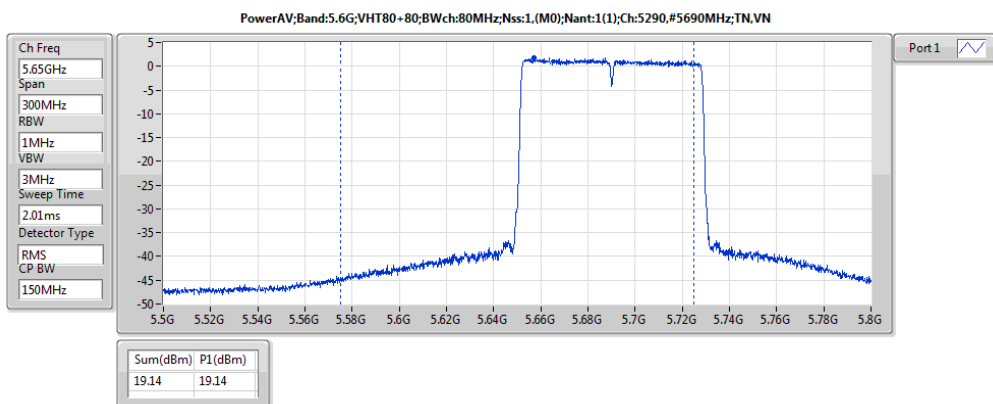
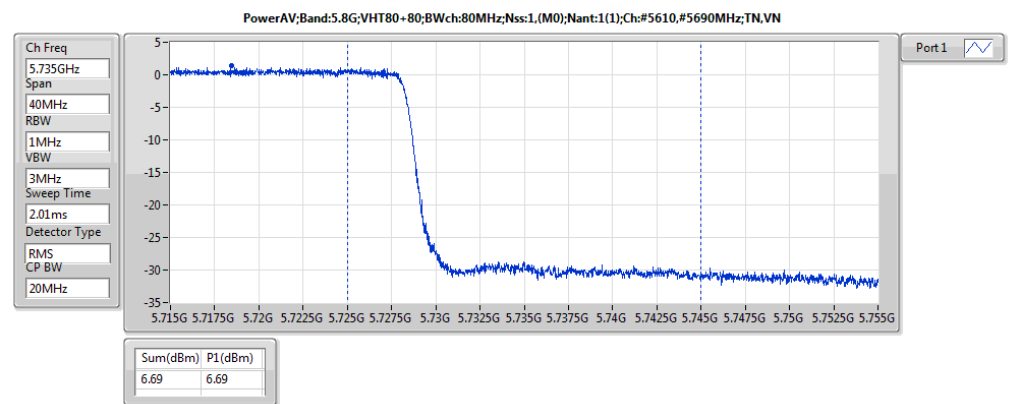
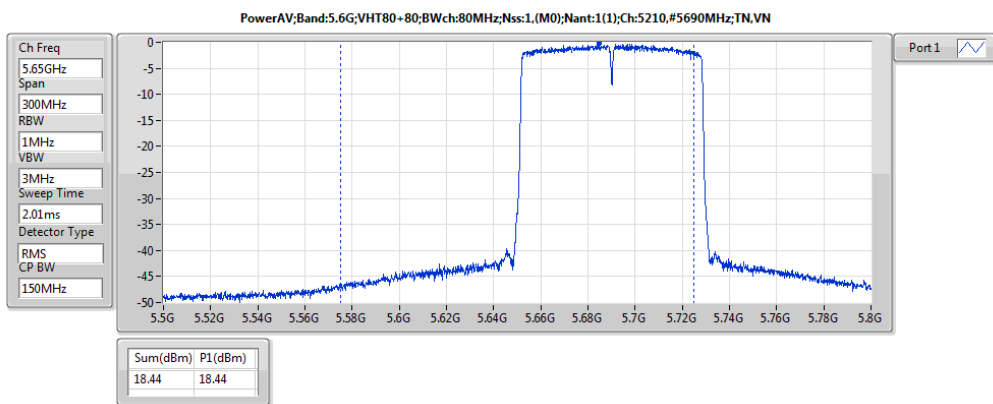
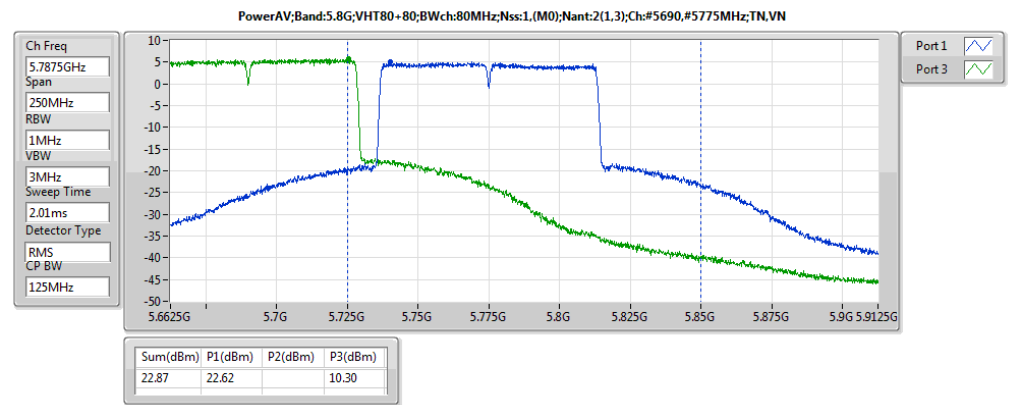
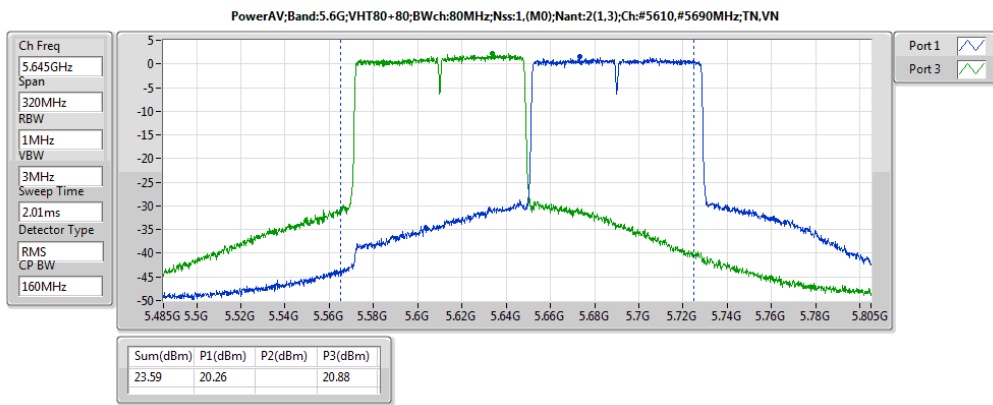
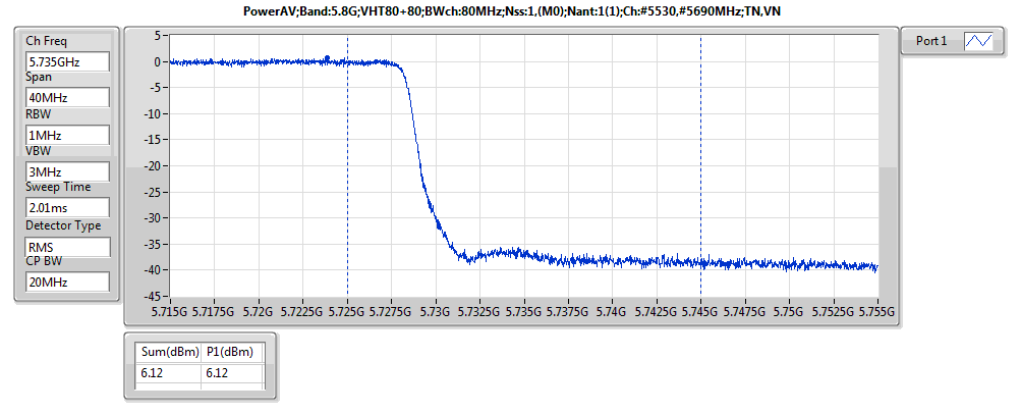
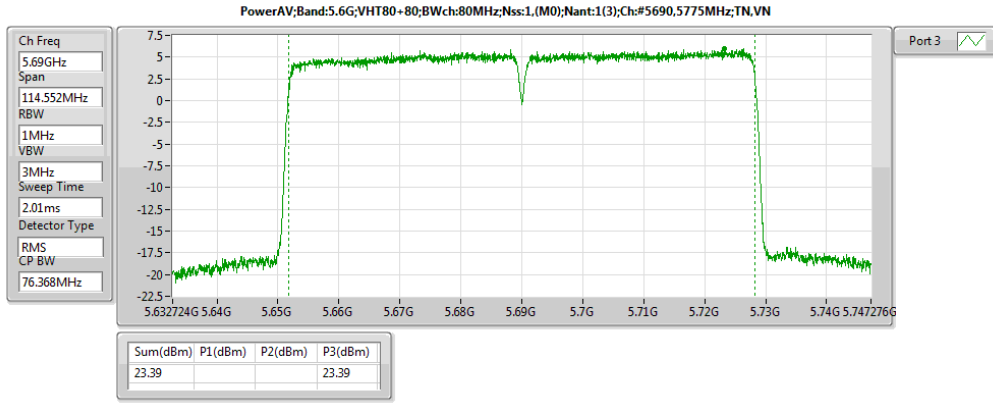
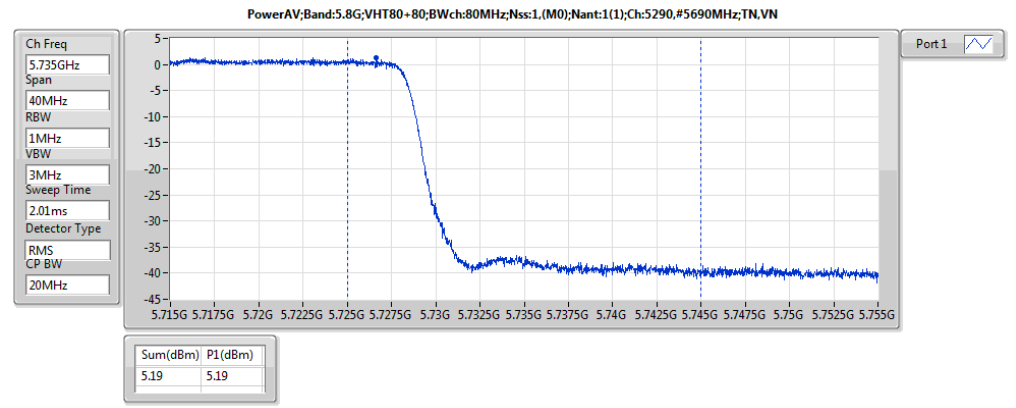
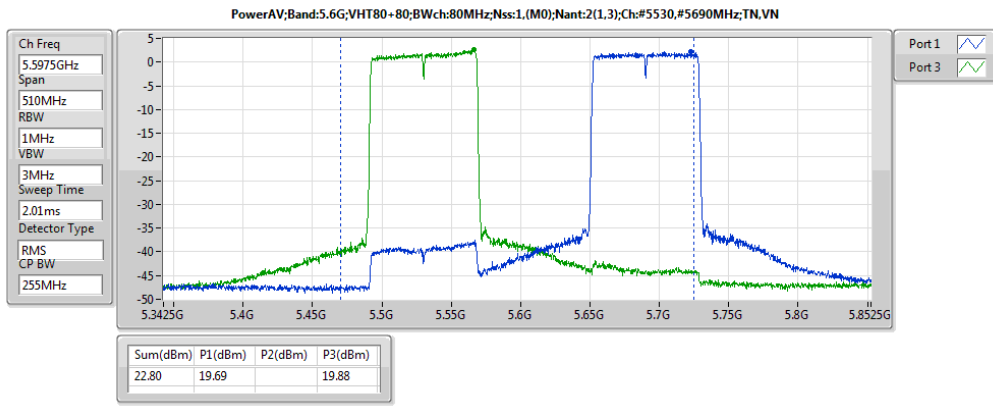
| Mode | Sum (dBm) | Sum (W) | EIRP (dBm) | EIRP (W) |
|-----------------------------------|-----------|---------|------------|----------|
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3) | 18.63 | 0.07295 | 21.63 | 0.14555 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3) | 19.25 | 0.08414 | 22.25 | 0.16788 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(1) | 17.58 | 0.05728 | 20.58 | 0.11429 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 23.59 | 0.22856 | 26.59 | 0.45604 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3) | 23.39 | 0.21827 | 26.39 | 0.43551 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 23.59 | 0.22856 | 26.59 | 0.45604 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1) | 19.77 | 0.09484 | 22.77 | 0.18923 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1) | 22.61 | 0.18239 | 25.61 | 0.36392 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 22.87 | 0.19364 | 25.87 | 0.38637 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1) | 22.61 | 0.18239 | 25.61 | 0.36392 |

Note: The test result of Non-Beamforming mode and Beamforming mode for Bandwidth 80+80MHz are the same.



Result

| Mode | Result | DG (dBi) | EIRP (dBm) | EIRP Lim. (dBm) | Sum (dBm) | Sum Lim. (dBm) | P1 (dBm) | P2 (dBm) | P3 (dBm) |
|--|--------|----------|------------|-----------------|-----------|----------------|----------|----------|----------|
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5530 | Pass | 3.00 | 21.56 | 36.00 | 18.56 | 30.00 | | | 18.56 |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5610 | Pass | 3.00 | 21.59 | 36.00 | 18.59 | 30.00 | | | 18.59 |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5690 | Pass | 3.00 | 21.63 | 36.00 | 18.63 | 30.00 | | | 18.63 |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5290 | Pass | 3.00 | 20.58 | 36.00 | 17.58 | 30.00 | | | 17.58 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5530 | Pass | 3.00 | 21.69 | 30.00 | 18.69 | 23.98 | | | 18.69 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5610 | Pass | 3.00 | 22.17 | 30.00 | 19.17 | 23.98 | | | 19.17 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5690 | Pass | 3.00 | 22.24 | 30.00 | 19.24 | 23.98 | | | 19.24 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5775 | Pass | 3.00 | 22.25 | 30.00 | 19.25 | 23.98 | | | 19.25 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(1);#5210,5290 | Pass | 3.00 | 20.58 | 30.00 | 17.58 | 23.98 | 17.58 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5530,5690 | Pass | 3.00 | 25.80 | 30.00 | 22.80 | 23.98 | 19.69 | | 19.88 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5530,5775 | Pass | 3.00 | 22.82 | 30.00 | 19.82 | 23.98 | | | 19.82 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5610,5775 | Pass | 3.00 | 26.33 | 30.00 | 23.33 | 23.98 | | | 23.33 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5690,5775 | Pass | 3.00 | 26.39 | 30.00 | 23.39 | 23.98 | | | 23.39 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5530,5610 | Pass | 3.00 | 25.82 | 30.00 | 22.82 | 23.98 | 19.72 | | 19.90 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5610,5690 | Pass | 3.00 | 26.59 | 30.00 | 23.59 | 23.98 | 20.26 | | 20.88 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);#5210,5530 | Pass | 3.00 | 21.50 | 30.00 | 18.50 | 23.98 | 18.50 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);#5210,5610 | Pass | 3.00 | 21.71 | 30.00 | 18.71 | 23.98 | 18.71 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);#5210,5690 | Pass | 3.00 | 21.44 | 30.00 | 18.44 | 23.98 | 18.44 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);#5290,5530 | Pass | 3.00 | 21.51 | 30.00 | 18.51 | 23.98 | 18.51 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);#5290,5610 | Pass | 3.00 | 22.19 | 30.00 | 19.19 | 23.98 | 19.19 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);#5290,5690 | Pass | 3.00 | 22.14 | 30.00 | 19.14 | 23.98 | 19.14 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5210,5690 | Pass | 3.00 | 7.10 | 36.00 | 4.10 | 30.00 | 4.10 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5290,5690 | Pass | 3.00 | 8.19 | 36.00 | 5.19 | 30.00 | 5.19 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5290,5775 | Pass | 3.00 | 22.07 | 36.00 | 19.07 | 30.00 | 19.07 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5530,5690 | Pass | 3.00 | 9.12 | 36.00 | 6.12 | 30.00 | 6.12 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5530,5775 | Pass | 3.00 | 22.54 | 36.00 | 19.54 | 30.00 | 19.54 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5610,5775 | Pass | 3.00 | 25.61 | 36.00 | 22.61 | 30.00 | 22.61 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5690,5775 | Pass | 3.00 | 25.87 | 36.00 | 22.87 | 30.00 | 22.62 | | 10.30 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5610,5690 | Pass | 3.00 | 9.69 | 36.00 | 6.69 | 30.00 | 6.69 | | |



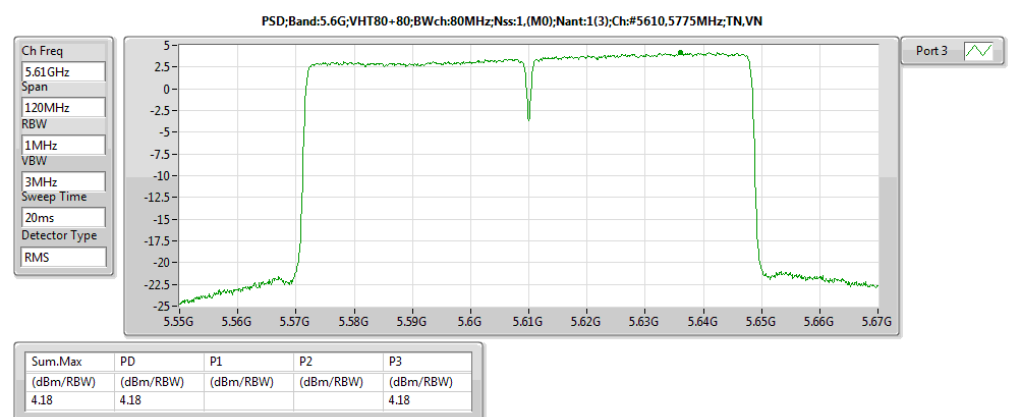
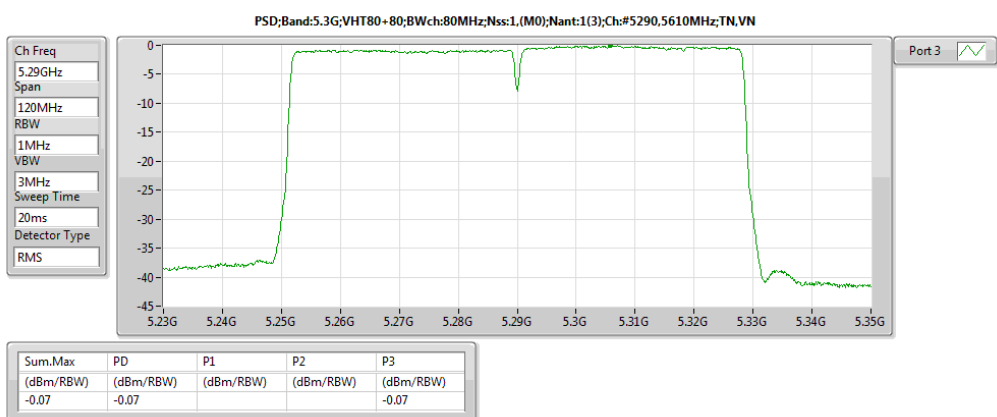
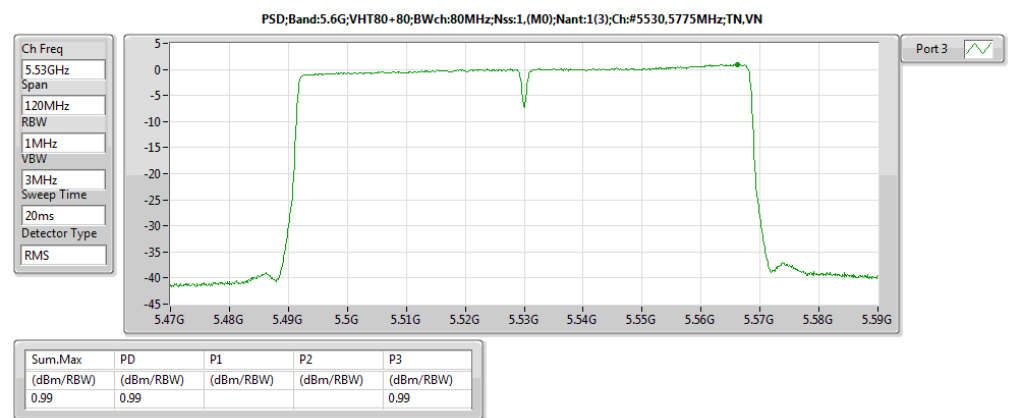
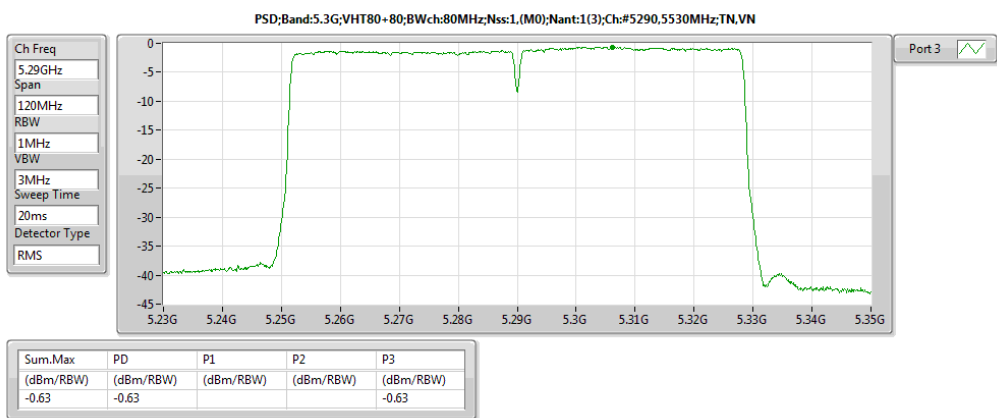
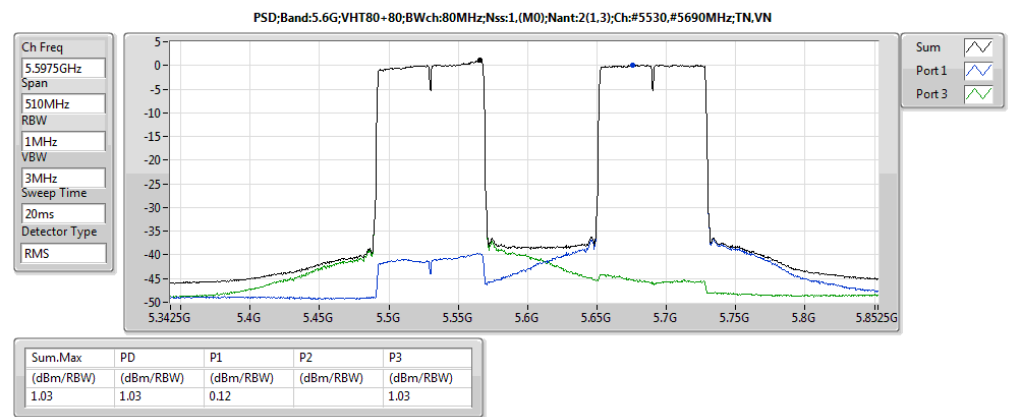
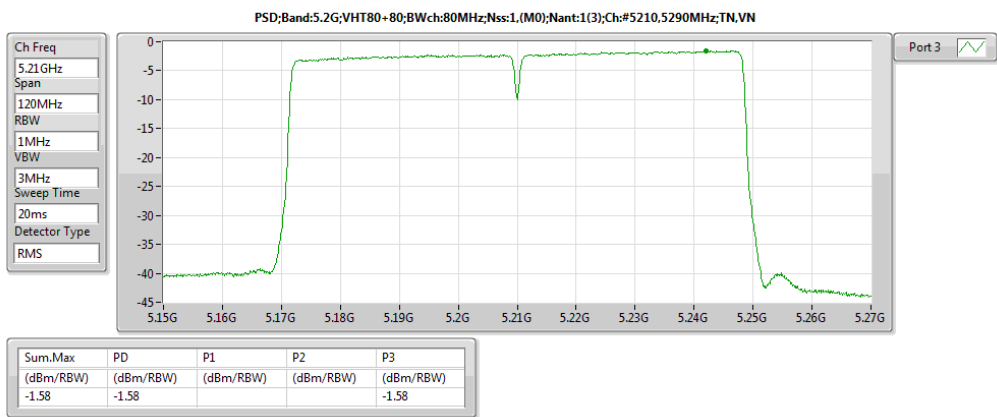
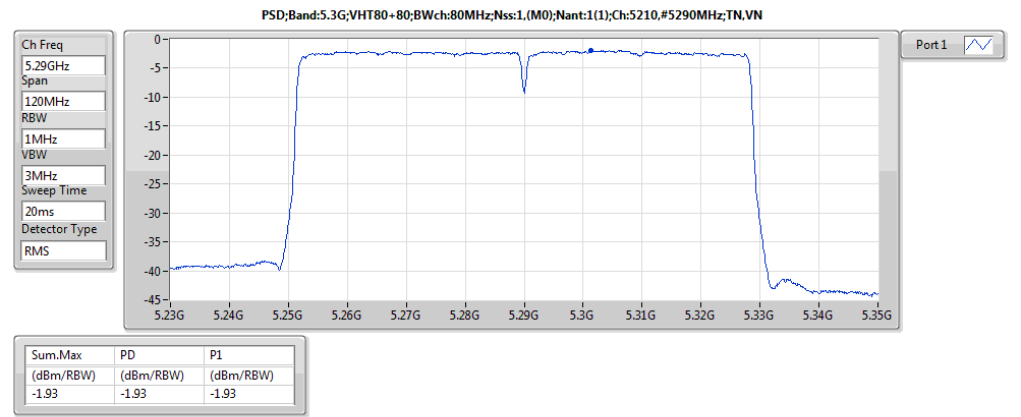
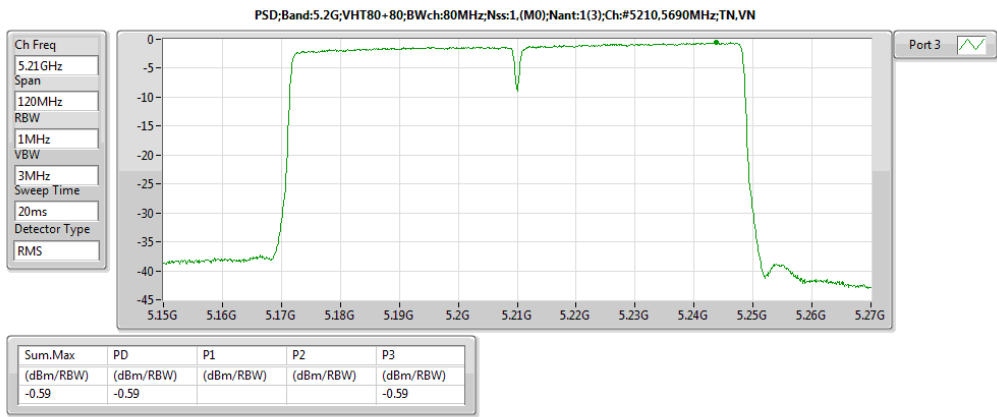
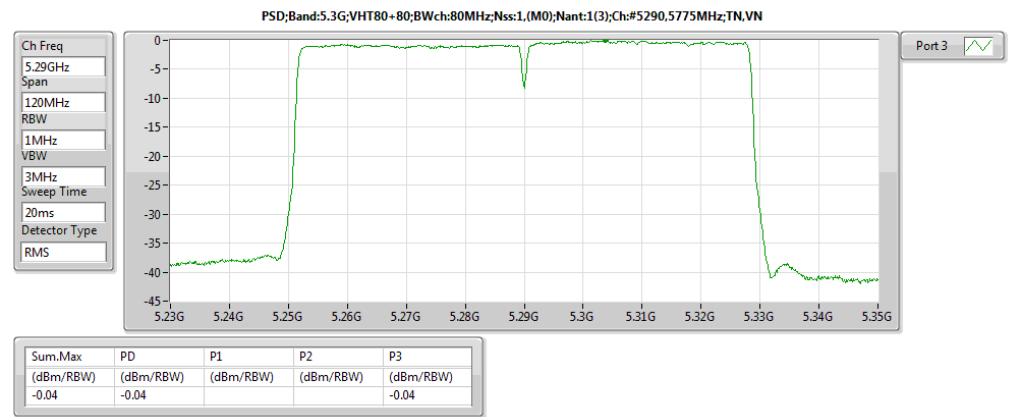
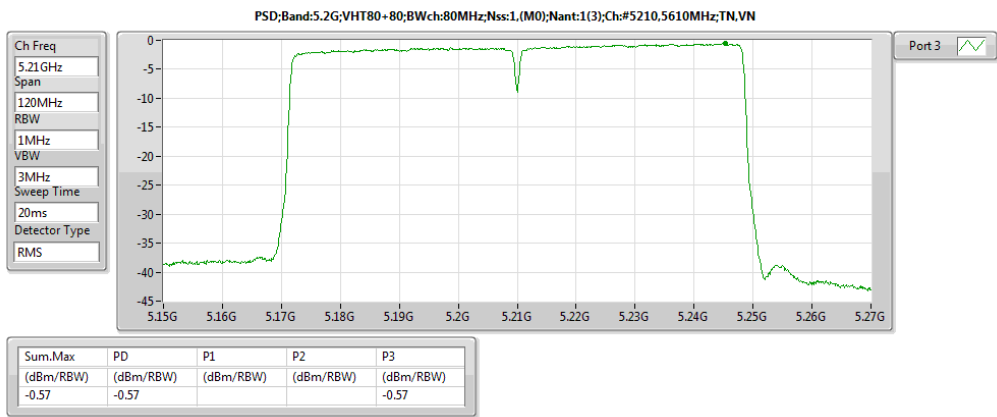
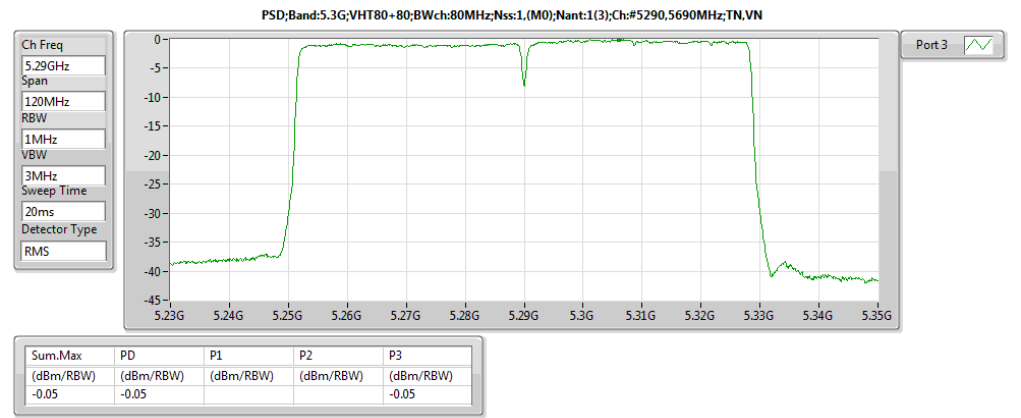
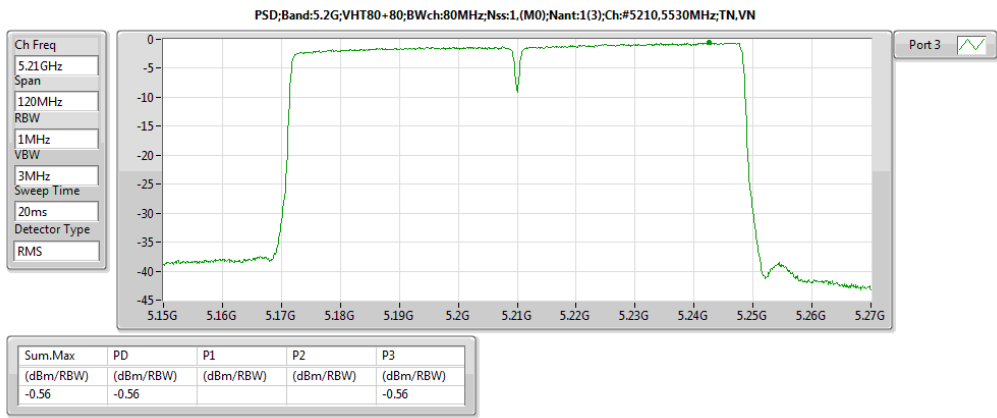


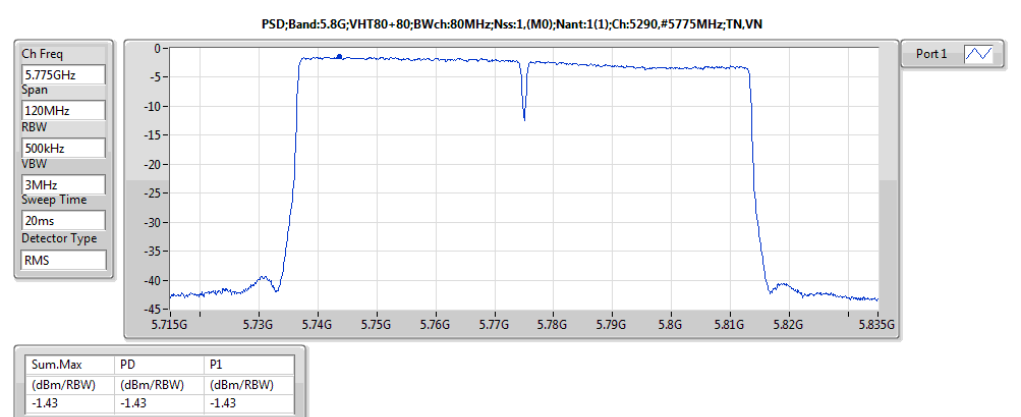
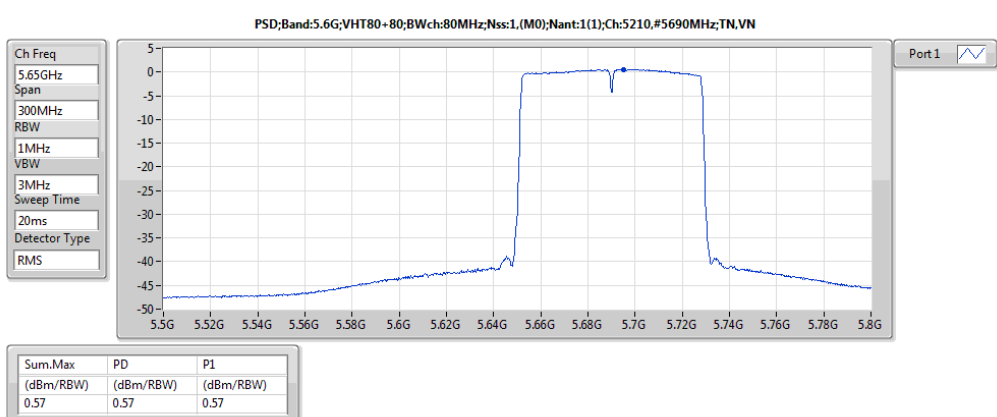
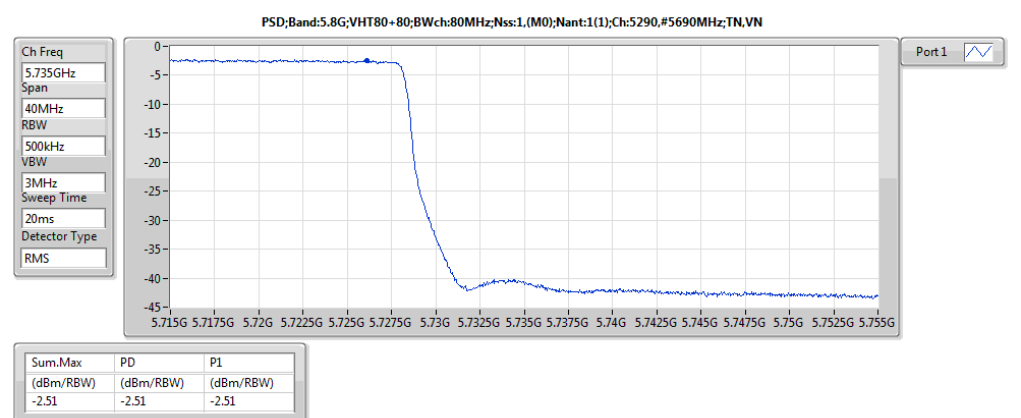
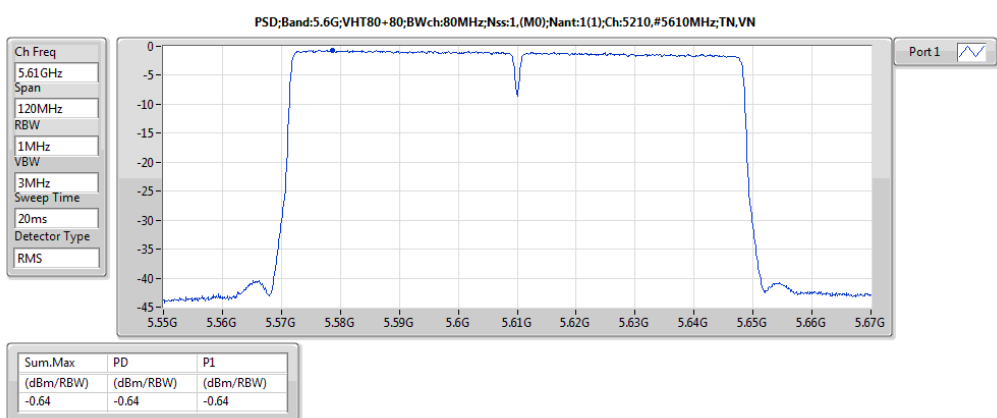
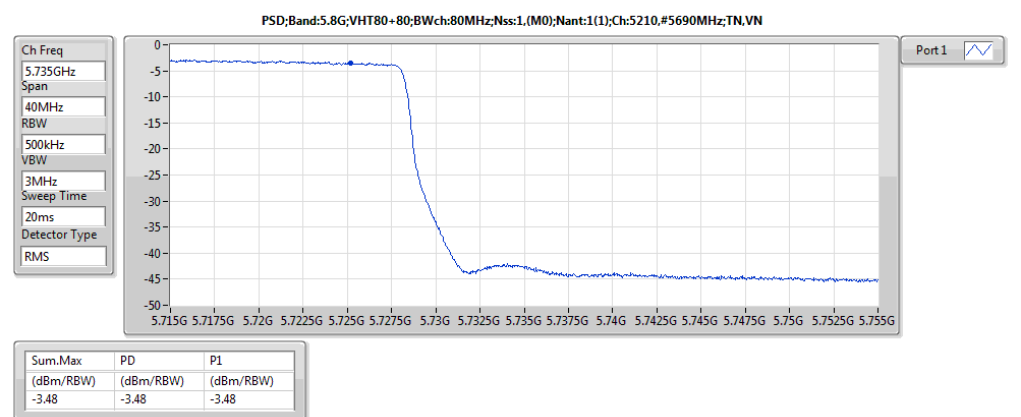
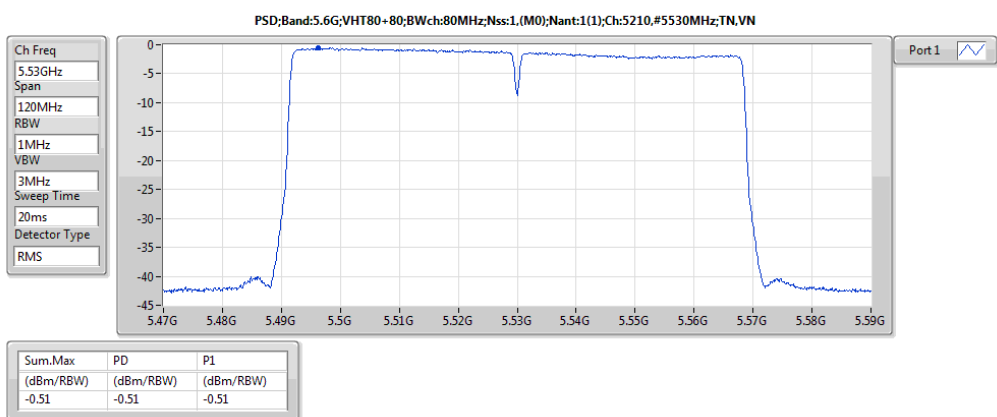
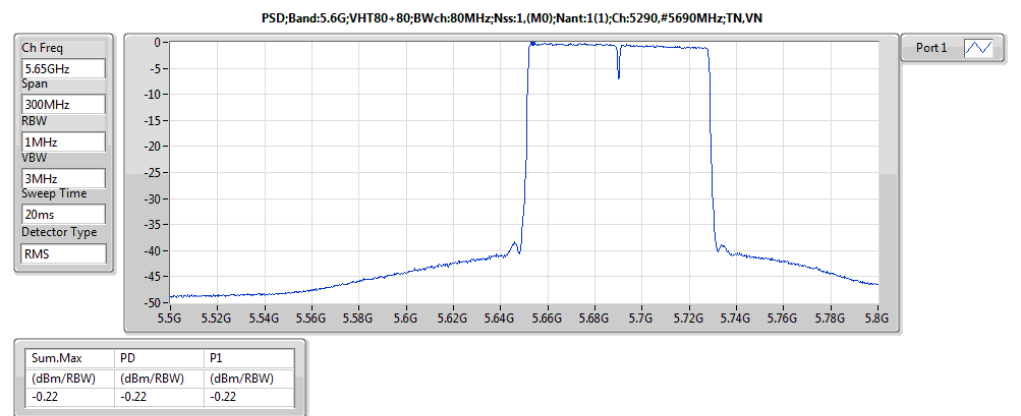
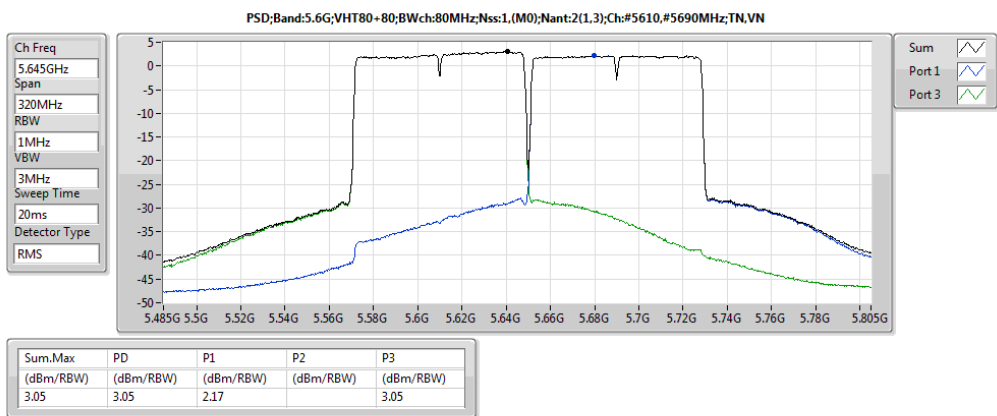
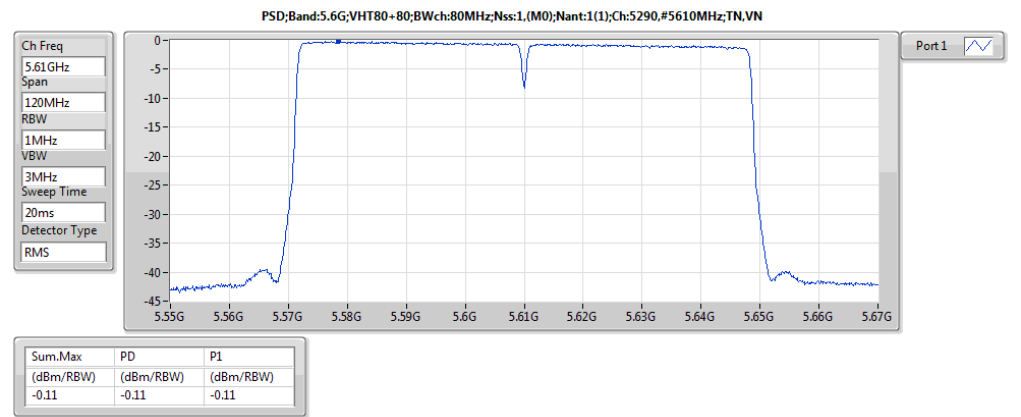
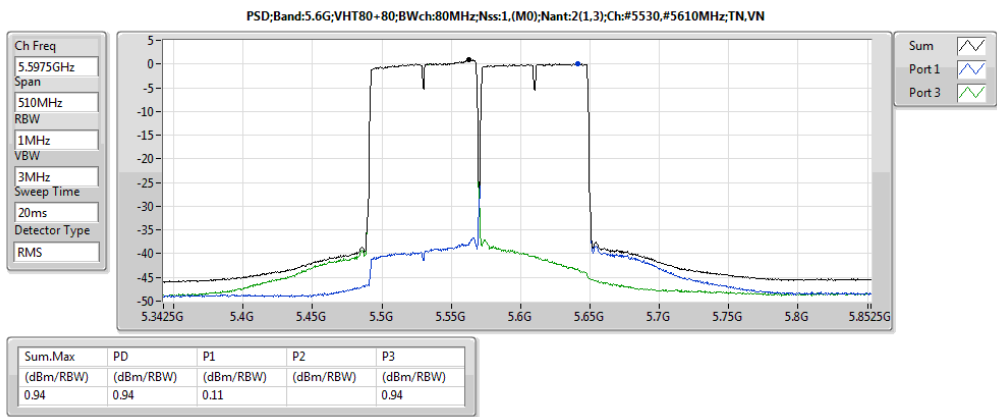
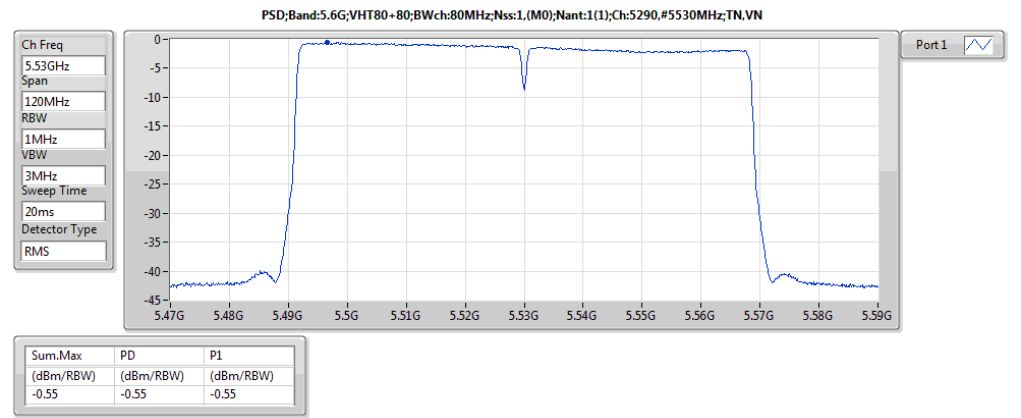
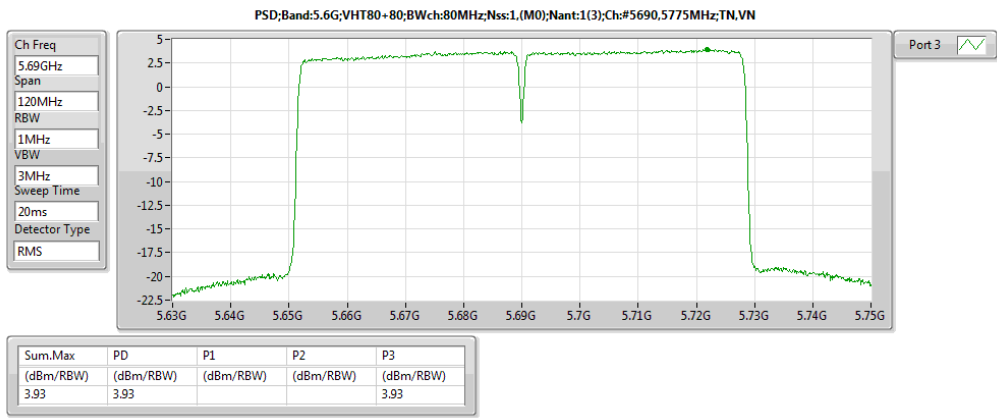
Summary

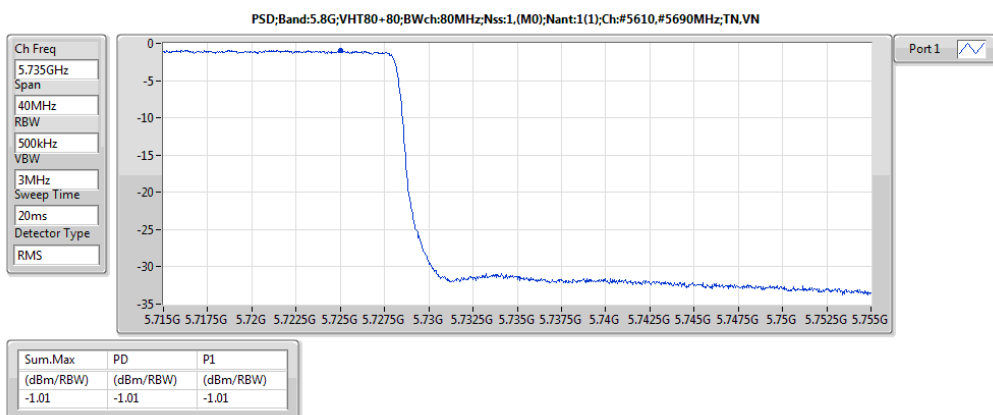
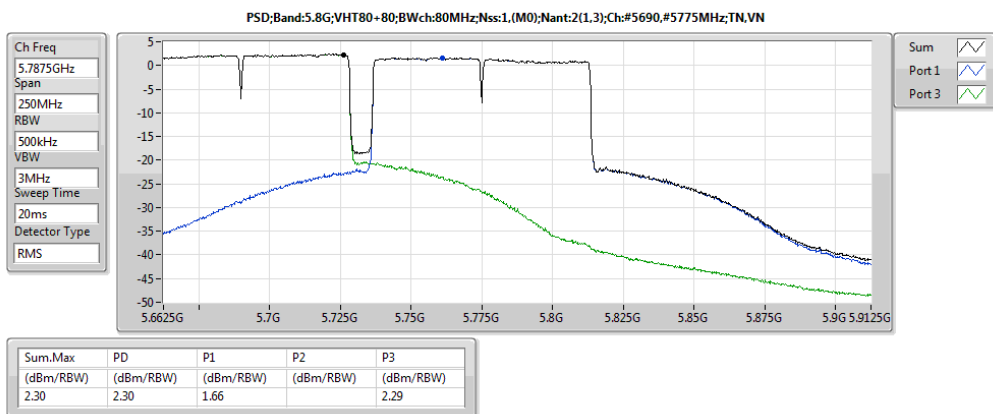
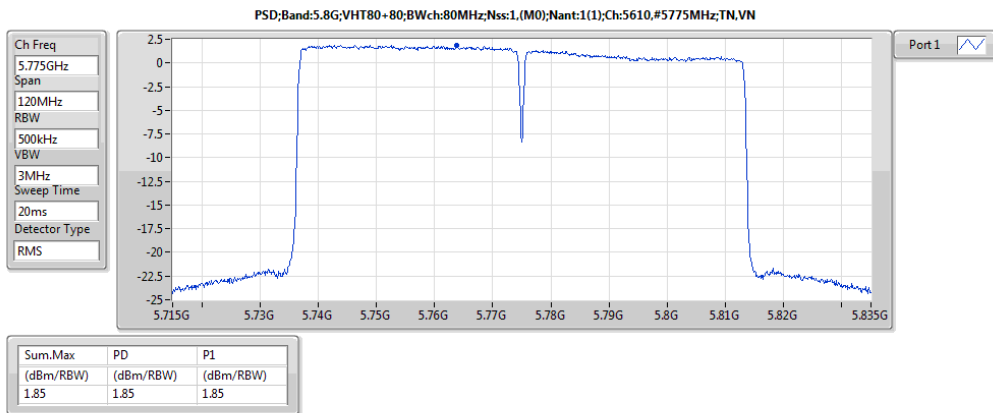
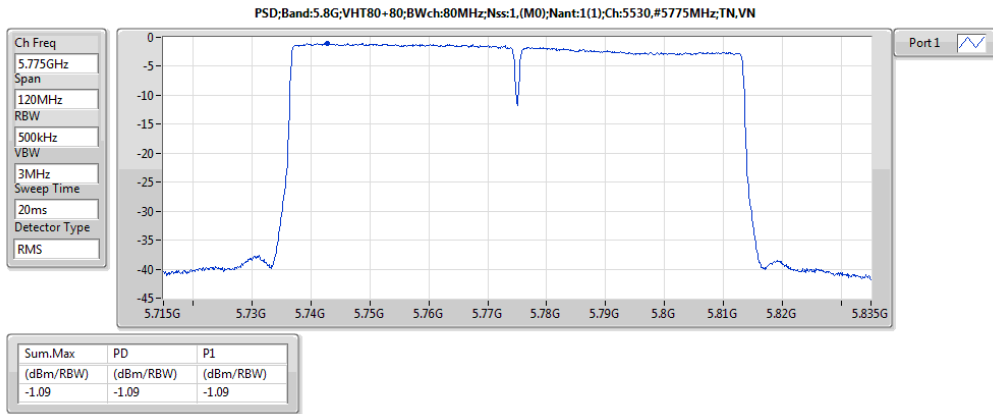
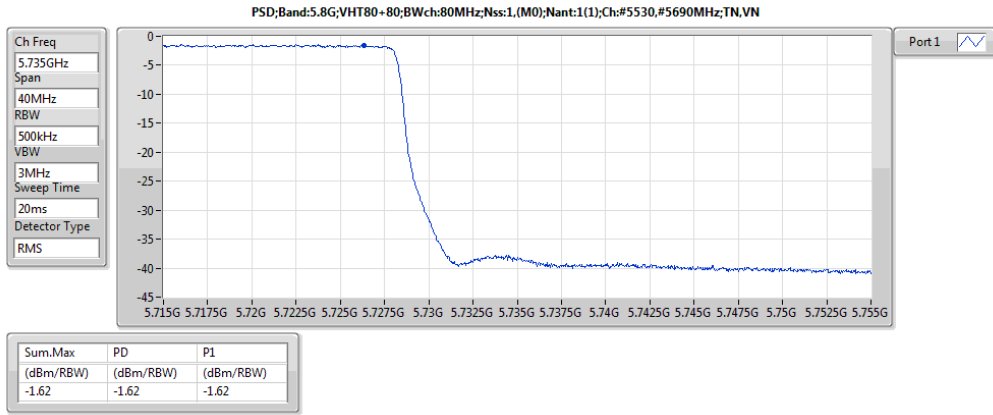
| Mode | PD (dBm/RBW) | EIRP.PD (dBm/RBW) |
|-----------------------------------|-----------------|----------------------|
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3) | -0.56 | 2.44 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3) | -0.04 | 2.96 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(1) | -1.93 | 1.07 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 3.05 | 9.07 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3) | 4.18 | 7.18 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 3.05 | 9.07 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1) | 0.57 | 3.57 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1) | 1.85 | 4.85 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx2(1,3) | 2.30 | 8.31 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1) | 1.85 | 4.85 |

Result

| Mode | Result | Meas.RBW (Hz) | Lim.RBW (Hz) | BWCF (dB) | DG (dBi) | Sum.Max (dBm/RBW) | PD (dBm/RBW) | PD.Limit (dBm/RBW) | P1 (dBm/RBW) | P2 (dBm/RBW) | P3 (dBm/RBW) |
|---|--------|------------------|-----------------|--------------|-------------|----------------------|-----------------|-----------------------|-----------------|-----------------|-----------------|
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5530 | Pass | 1M | 1M | 0.00 | 3.00 | -0.56 | -0.56 | 17.00 | | | -0.56 |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5610 | Pass | 1M | 1M | 0.00 | 3.00 | -0.57 | -0.57 | 17.00 | | | -0.57 |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5690 | Pass | 1M | 1M | 0.00 | 3.00 | -0.59 | -0.59 | 17.00 | | | -0.59 |
| 5.2G;VHT80+80;Nss1,(M0);Ntx1(3);#5210,5290 | Pass | 1M | 1M | 0.00 | 3.00 | -1.58 | -1.58 | 17.00 | | | -1.58 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5530 | Pass | 1M | 1M | 0.00 | 3.00 | -0.63 | -0.63 | 11.00 | | | -0.63 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5610 | Pass | 1M | 1M | 0.00 | 3.00 | -0.07 | -0.07 | 11.00 | | | -0.07 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5690 | Pass | 1M | 1M | 0.00 | 3.00 | -0.05 | -0.05 | 11.00 | | | -0.05 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(3);#5290,5775 | Pass | 1M | 1M | 0.00 | 3.00 | -0.04 | -0.04 | 11.00 | | | -0.04 |
| 5.3G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5290 | Pass | 1M | 1M | 0.00 | 3.00 | -1.93 | -1.93 | 11.00 | -1.93 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5530,#5690 | Pass | 1M | 1M | 0.00 | 3.00 | 1.03 | 1.03 | 11.00 | 0.12 | | 1.03 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5530,5775 | Pass | 1M | 1M | 0.00 | 3.00 | 0.99 | 0.99 | 11.00 | | | 0.99 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5610,5775 | Pass | 1M | 1M | 0.00 | 3.00 | 4.18 | 4.18 | 11.00 | | | 4.18 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(3);#5690,5775 | Pass | 1M | 1M | 0.00 | 3.00 | 3.93 | 3.93 | 11.00 | | | 3.93 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5530,#5610 | Pass | 1M | 1M | 0.00 | 3.00 | 0.94 | 0.94 | 11.00 | 0.11 | | 0.94 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5610,#5690 | Pass | 1M | 1M | 0.00 | 3.00 | 3.05 | 3.05 | 11.00 | 2.17 | | 3.05 |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5530 | Pass | 1M | 1M | 0.00 | 3.00 | -0.51 | -0.51 | 11.00 | -0.51 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5610 | Pass | 1M | 1M | 0.00 | 3.00 | -0.64 | -0.64 | 11.00 | -0.64 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5690 | Pass | 1M | 1M | 0.00 | 3.00 | 0.57 | 0.57 | 11.00 | 0.57 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5530 | Pass | 1M | 1M | 0.00 | 3.00 | -0.55 | -0.55 | 11.00 | -0.55 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5610 | Pass | 1M | 1M | 0.00 | 3.00 | -0.11 | -0.11 | 11.00 | -0.11 | | |
| 5.6G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5690 | Pass | 1M | 1M | 0.00 | 3.00 | -0.22 | -0.22 | 11.00 | -0.22 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5210,#5690 | Pass | 500k | 500k | 0.00 | 3.00 | -3.48 | -3.48 | 30.00 | -3.48 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5690 | Pass | 500k | 500k | 0.00 | 3.00 | -2.51 | -2.51 | 30.00 | -2.51 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5290,#5775 | Pass | 500k | 500k | 0.00 | 3.00 | -1.43 | -1.43 | 30.00 | -1.43 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5530,#5690 | Pass | 500k | 500k | 0.00 | 3.00 | -1.62 | -1.62 | 30.00 | -1.62 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5530,#5775 | Pass | 500k | 500k | 0.00 | 3.00 | -1.09 | -1.09 | 30.00 | -1.09 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);5610,#5775 | Pass | 500k | 500k | 0.00 | 3.00 | 1.85 | 1.85 | 30.00 | 1.85 | | |
| 5.8G;VHT80+80;Nss1,(M0);Ntx2(1,3);#5690,#5775 | Pass | 500k | 500k | 0.00 | 3.00 | 2.30 | 2.30 | 30.00 | 1.66 | | 2.29 |
| 5.8G;VHT80+80;Nss1,(M0);Ntx1(1);#5610,#5690 | Pass | 500k | 500k | 0.00 | 3.00 | -1.01 | -1.01 | 30.00 | -1.01 | | |









Radiated Emissions (1GHz~40GHz)

802.11ac MCS0/Nss1 VHT80+80

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 1 / CH 42+106 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11059.44 | 59.50 | 74.00 | -14.50 | 40.23 | 11.77 | 40.19 | 32.69 | 225 | 196 Peak | HORIZONTAL |
| 2 | 11059.47 | 46.59 | 54.00 | -7.41 | 27.32 | 11.77 | 40.19 | 32.69 | 225 | 196 Average | HORIZONTAL |
| 3 | 15629.90 | 60.57 | 74.00 | -13.43 | 41.07 | 14.08 | 38.14 | 32.72 | 192 | 226 Peak | HORIZONTAL |
| 4 | 15630.17 | 47.32 | 54.00 | -6.68 | 27.82 | 14.08 | 38.14 | 32.72 | 192 | 226 Average | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11060.30 | 59.28 | 74.00 | -14.72 | 40.03 | 11.77 | 40.17 | 32.69 | 213 | 219 Peak | VERTICAL |
| 2 | 11060.39 | 46.43 | 54.00 | -7.57 | 27.18 | 11.77 | 40.17 | 32.69 | 213 | 219 Average | VERTICAL |
| 3 | 15629.18 | 47.24 | 54.00 | -6.76 | 27.74 | 14.08 | 38.14 | 32.72 | 138 | 215 Average | VERTICAL |
| 4 | 15629.42 | 60.44 | 74.00 | -13.56 | 40.94 | 14.08 | 38.14 | 32.72 | 138 | 215 Peak | VERTICAL |

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 2 / CH 42+122 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11219.98 | 60.20 | 74.00 | -13.80 | 40.95 | 11.84 | 40.12 | 32.71 | 221 | 177 Peak | HORIZONTAL |
| 2 | 11220.78 | 46.77 | 54.00 | -7.23 | 27.52 | 11.84 | 40.12 | 32.71 | 221 | 177 Average | HORIZONTAL |
| 3 | 15629.66 | 47.13 | 54.00 | -6.87 | 27.63 | 14.08 | 38.14 | 32.72 | 152 | 240 Average | HORIZONTAL |
| 4 | 15629.74 | 60.47 | 74.00 | -13.53 | 40.97 | 14.08 | 38.14 | 32.72 | 152 | 240 Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11220.46 | 46.66 | 54.00 | -7.34 | 27.41 | 11.84 | 40.12 | 32.71 | 233 | 189 Average | VERTICAL |
| 2 | 11220.63 | 59.98 | 74.00 | -14.02 | 40.73 | 11.84 | 40.12 | 32.71 | 233 | 189 Peak | VERTICAL |
| 3 | 15630.74 | 60.52 | 74.00 | -13.48 | 41.02 | 14.08 | 38.14 | 32.72 | 164 | 322 Peak | VERTICAL |
| 4 | 15630.86 | 47.09 | 54.00 | -6.91 | 27.59 | 14.08 | 38.14 | 32.72 | 164 | 322 Average | VERTICAL |

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 3 / CH 42+138 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11379.69 | 46.71 | 54.00 | -7.29 | 27.48 | 11.91 | 40.05 | 32.73 | 216 | 135 Average | HORIZONTAL |
| 2 | 11380.72 | 59.38 | 74.00 | -14.62 | 40.15 | 11.91 | 40.05 | 32.73 | 216 | 135 Peak | HORIZONTAL |
| 3 | 15629.51 | 48.09 | 54.00 | -5.91 | 28.59 | 14.08 | 38.14 | 32.72 | 131 | 192 Average | HORIZONTAL |
| 4 | 15630.73 | 61.41 | 74.00 | -12.59 | 41.91 | 14.08 | 38.14 | 32.72 | 131 | 192 Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11379.14 | 46.62 | 54.00 | -7.38 | 27.39 | 11.91 | 40.05 | 32.73 | 204 | 147 Average | VERTICAL |
| 2 | 11380.89 | 59.97 | 74.00 | -14.03 | 40.74 | 11.91 | 40.05 | 32.73 | 204 | 147 Peak | VERTICAL |
| 3 | 15629.15 | 60.34 | 74.00 | -13.66 | 40.84 | 14.08 | 38.14 | 32.72 | 148 | 265 Peak | VERTICAL |
| 4 | 15630.49 | 47.37 | 54.00 | -6.63 | 27.87 | 14.08 | 38.14 | 32.72 | 148 | 265 Average | VERTICAL |



| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 4 / CH 58+106 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11060.13 | 46.85 | 54.00 | -7.15 | 27.60 | 11.77 | 40.17 | 32.69 | 167 | 4 Average | HORIZONTAL |
| 2 | 11060.13 | 61.32 | 74.00 | -12.68 | 42.07 | 11.77 | 40.17 | 32.69 | 241 | 244 Peak | HORIZONTAL |
| 3 | 11060.38 | 57.79 | 74.00 | -16.21 | 38.54 | 11.77 | 40.17 | 32.69 | 167 | 4 Peak | HORIZONTAL |
| 4 | 11060.59 | 46.46 | 54.00 | -7.54 | 27.21 | 11.77 | 40.17 | 32.69 | 241 | 244 Average | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11060.10 | 59.79 | 74.00 | -14.21 | 40.52 | 11.77 | 40.19 | 32.69 | 231 | 306 Peak | VERTICAL |
| 2 | 11060.30 | 45.81 | 54.00 | -8.19 | 26.56 | 11.77 | 40.17 | 32.69 | 231 | 306 Average | VERTICAL |
| 3 | 11060.51 | 46.23 | 54.00 | -7.77 | 26.98 | 11.77 | 40.17 | 32.69 | 225 | 220 Average | VERTICAL |
| 4 | 11060.92 | 59.36 | 74.00 | -14.64 | 40.11 | 11.77 | 40.17 | 32.69 | 225 | 220 Peak | VERTICAL |

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 5 / CH 58+122 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11219.15 | 59.83 | 74.00 | -14.17 | 40.58 | 11.84 | 40.12 | 32.71 | 202 | 191 Peak | HORIZONTAL |
| 2 | 11220.20 | 46.84 | 54.00 | -7.16 | 27.59 | 11.84 | 40.12 | 32.71 | 202 | 191 Average | HORIZONTAL |
| 3 | 15869.32 | 47.35 | 54.00 | -6.65 | 28.06 | 14.16 | 37.86 | 32.73 | 159 | 248 Average | HORIZONTAL |
| 4 | 15870.01 | 60.48 | 74.00 | -13.52 | 41.19 | 14.16 | 37.86 | 32.73 | 159 | 248 Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11219.37 | 60.02 | 74.00 | -13.98 | 40.77 | 11.84 | 40.12 | 32.71 | 213 | 204 Peak | VERTICAL |
| 2 | 11220.95 | 46.67 | 54.00 | -7.33 | 27.42 | 11.84 | 40.12 | 32.71 | 213 | 204 Average | VERTICAL |
| 3 | 15869.75 | 48.33 | 54.00 | -5.67 | 29.04 | 14.16 | 37.86 | 32.73 | 159 | 248 Average | VERTICAL |
| 4 | 15870.23 | 60.82 | 74.00 | -13.18 | 41.53 | 14.16 | 37.86 | 32.73 | 159 | 248 Peak | VERTICAL |

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 6 / CH 58+138 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11379.23 | 60.03 | 74.00 | -13.97 | 40.80 | 11.91 | 40.05 | 32.73 | 223 | 229 Peak | HORIZONTAL |
| 2 | 11380.44 | 46.88 | 54.00 | -7.12 | 27.65 | 11.91 | 40.05 | 32.73 | 223 | 229 Average | HORIZONTAL |
| 3 | 15869.70 | 60.31 | 74.00 | -13.69 | 41.02 | 14.16 | 37.86 | 32.73 | 155 | 149 Peak | HORIZONTAL |
| 4 | 15870.25 | 47.36 | 54.00 | -6.64 | 28.07 | 14.16 | 37.86 | 32.73 | 155 | 149 Average | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11379.74 | 59.68 | 74.00 | -14.32 | 40.45 | 11.91 | 40.05 | 32.73 | 198 | 188 Peak | VERTICAL |
| 2 | 11380.37 | 46.76 | 54.00 | -7.24 | 27.53 | 11.91 | 40.05 | 32.73 | 198 | 188 Average | VERTICAL |
| 3 | 15869.36 | 48.08 | 54.00 | -5.92 | 28.79 | 14.16 | 37.86 | 32.73 | 178 | 189 Average | VERTICAL |
| 4 | 15870.52 | 60.78 | 74.00 | -13.22 | 41.49 | 14.16 | 37.86 | 32.73 | 178 | 189 Peak | VERTICAL |



| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 7 / CH 58+155 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11549.50 | 59.22 | 74.00 | -14.78 | 40.05 | 11.98 | 39.93 | 32.74 | 185 | 192 | Peak | HORIZONTAL |
| 2 | 11549.61 | 46.25 | 54.00 | -7.75 | 27.08 | 11.98 | 39.93 | 32.74 | 185 | 192 | Average | HORIZONTAL |
| 3 | 15869.07 | 60.55 | 74.00 | -13.45 | 41.26 | 14.16 | 37.86 | 32.73 | 148 | 182 | Peak | HORIZONTAL |
| 4 | 15869.94 | 47.41 | 54.00 | -6.59 | 28.12 | 14.16 | 37.86 | 32.73 | 148 | 182 | Average | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11550.25 | 46.14 | 54.00 | -7.86 | 27.03 | 11.98 | 39.87 | 32.74 | 206 | 224 | Average | VERTICAL |
| 2 | 11550.30 | 59.53 | 74.00 | -14.47 | 40.42 | 11.98 | 39.87 | 32.74 | 206 | 224 | Peak | VERTICAL |
| 3 | 15869.17 | 48.20 | 54.00 | -5.80 | 28.91 | 14.16 | 37.86 | 32.73 | 172 | 222 | Average | VERTICAL |
| 4 | 15870.98 | 61.10 | 74.00 | -12.90 | 41.81 | 14.16 | 37.86 | 32.73 | 172 | 222 | Peak | VERTICAL |

| | |
|-----------------------|--|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 8 / CH 106+138 / Chain 1 + Chain 3 |
|-----------------------|--|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11059.40 | 58.96 | 74.00 | -15.04 | 39.69 | 11.77 | 40.19 | 32.69 | 186 | 133 | Peak | HORIZONTAL |
| 2 | 11060.69 | 46.31 | 54.00 | -7.69 | 27.06 | 11.77 | 40.17 | 32.69 | 186 | 133 | Average | HORIZONTAL |
| 3 | 11379.44 | 46.87 | 54.00 | -7.13 | 27.64 | 11.91 | 40.05 | 32.73 | 228 | 174 | Average | HORIZONTAL |
| 4 | 11380.94 | 59.99 | 74.00 | -14.01 | 40.76 | 11.91 | 40.05 | 32.73 | 228 | 174 | Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11060.09 | 46.16 | 54.00 | -7.84 | 26.89 | 11.77 | 40.19 | 32.69 | 120 | 221 | Average | VERTICAL |
| 2 | 11060.10 | 59.08 | 74.00 | -14.92 | 39.81 | 11.77 | 40.19 | 32.69 | 120 | 221 | Peak | VERTICAL |
| 3 | 11380.37 | 60.45 | 74.00 | -13.55 | 41.22 | 11.91 | 40.05 | 32.73 | 208 | 183 | Peak | VERTICAL |
| 4 | 11380.60 | 46.70 | 54.00 | -7.30 | 27.47 | 11.91 | 40.05 | 32.73 | 208 | 183 | Average | VERTICAL |

| | |
|-----------------------|--|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 9 / CH 106+155 / Chain 1 + Chain 3 |
|-----------------------|--|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11060.12 | 59.65 | 74.00 | -14.35 | 40.40 | 11.77 | 40.17 | 32.69 | 166 | 299 | Peak | HORIZONTAL |
| 2 | 11060.19 | 46.78 | 54.00 | -7.22 | 27.53 | 11.77 | 40.17 | 32.69 | 166 | 299 | Average | HORIZONTAL |
| 3 | 11550.24 | 46.56 | 54.00 | -7.44 | 27.45 | 11.98 | 39.87 | 32.74 | 174 | 224 | Average | HORIZONTAL |
| 4 | 11550.24 | 59.82 | 74.00 | -14.18 | 40.71 | 11.98 | 39.87 | 32.74 | 174 | 224 | Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11060.49 | 46.04 | 54.00 | -7.96 | 26.79 | 11.77 | 40.17 | 32.69 | 219 | 236 | Average | VERTICAL |
| 2 | 11060.67 | 59.35 | 74.00 | -14.65 | 40.10 | 11.77 | 40.17 | 32.69 | 219 | 236 | Peak | VERTICAL |
| 3 | 11549.53 | 46.06 | 54.00 | -7.94 | 26.89 | 11.98 | 39.93 | 32.74 | 201 | 197 | Average | VERTICAL |
| 4 | 11549.91 | 59.33 | 74.00 | -14.67 | 40.16 | 11.98 | 39.93 | 32.74 | 201 | 197 | Peak | VERTICAL |



| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 10 / CH 122+155 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11215.36 | 64.06 | 74.00 | -9.94 | 44.81 | 11.84 | 40.12 | 32.71 | 214 | 277 Peak | HORIZONTAL |
| 2 | 11226.56 | 49.51 | 54.00 | -4.49 | 30.27 | 11.84 | 40.11 | 32.71 | 214 | 277 Average | HORIZONTAL |
| 3 | 11550.36 | 45.30 | 54.00 | -8.70 | 26.19 | 11.98 | 39.87 | 32.74 | 207 | 251 Average | HORIZONTAL |
| 4 | 11550.66 | 59.19 | 74.00 | -14.81 | 40.08 | 11.98 | 39.87 | 32.74 | 207 | 251 Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11199.76 | 46.59 | 54.00 | -7.41 | 27.35 | 11.83 | 40.12 | 32.71 | 208 | 137 Average | VERTICAL |
| 2 | 11241.20 | 59.58 | 74.00 | -14.42 | 40.34 | 11.84 | 40.11 | 32.71 | 208 | 137 Peak | VERTICAL |
| 3 | 11580.88 | 59.11 | 74.00 | -14.89 | 39.99 | 11.99 | 39.87 | 32.74 | 286 | 360 Peak | VERTICAL |
| 4 | 11583.60 | 46.09 | 54.00 | -7.91 | 27.04 | 11.99 | 39.80 | 32.74 | 286 | 360 Average | VERTICAL |

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 11 / CH 138+155 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11389.60 | 48.65 | 54.00 | -5.35 | 29.43 | 11.91 | 40.04 | 32.73 | 218 | 274 Average | HORIZONTAL |
| 2 | 11396.80 | 62.45 | 74.00 | -11.55 | 43.23 | 11.91 | 40.04 | 32.73 | 218 | 274 Peak | HORIZONTAL |
| 3 | 11549.99 | 45.37 | 54.00 | -8.63 | 26.20 | 11.98 | 39.93 | 32.74 | 217 | 32 Average | HORIZONTAL |
| 4 | 11552.19 | 59.22 | 74.00 | -14.78 | 40.11 | 11.98 | 39.87 | 32.74 | 217 | 32 Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 11366.08 | 59.96 | 74.00 | -14.04 | 40.74 | 11.90 | 40.05 | 32.73 | 208 | 140 Peak | VERTICAL |
| 2 | 11391.36 | 46.59 | 54.00 | -7.41 | 27.37 | 11.91 | 40.04 | 32.73 | 208 | 140 Average | VERTICAL |
| 3 | 11585.76 | 58.79 | 74.00 | -15.21 | 39.74 | 11.99 | 39.80 | 32.74 | 220 | 260 Peak | VERTICAL |
| 4 | 11586.32 | 45.76 | 54.00 | -8.24 | 26.71 | 11.99 | 39.80 | 32.74 | 220 | 260 Average | VERTICAL |

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 12 / CH 42+58 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 15627.70 | 46.53 | 54.00 | -7.47 | 27.04 | 14.07 | 38.14 | 32.72 | 218 | 238 Average | HORIZONTAL |
| 2 | 15630.36 | 60.43 | 74.00 | -13.57 | 40.93 | 14.08 | 38.14 | 32.72 | 218 | 238 Peak | HORIZONTAL |
| 3 | 15867.54 | 60.58 | 74.00 | -13.42 | 41.29 | 14.16 | 37.86 | 32.73 | 206 | 142 Peak | HORIZONTAL |
| 4 | 15869.47 | 46.97 | 54.00 | -7.03 | 27.68 | 14.16 | 37.86 | 32.73 | 206 | 142 Average | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 15636.36 | 60.20 | 74.00 | -13.80 | 40.70 | 14.08 | 38.14 | 32.72 | 223 | 321 Peak | VERTICAL |
| 2 | 15649.80 | 46.81 | 54.00 | -7.19 | 27.36 | 14.09 | 38.08 | 32.72 | 223 | 321 Average | VERTICAL |
| 3 | 15851.20 | 60.10 | 74.00 | -13.90 | 40.80 | 14.16 | 37.86 | 32.72 | 213 | 244 Peak | VERTICAL |
| 4 | 15888.68 | 47.11 | 54.00 | -6.89 | 27.86 | 14.17 | 37.81 | 32.73 | 213 | 244 Average | VERTICAL |



| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 13 / CH 106+122 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11059.28 | 59.60 | 74.00 | -14.40 | 40.33 | 11.77 | 40.19 | 32.69 | 197 | 142 | Peak | HORIZONTAL |
| 2 | 11080.16 | 46.32 | 54.00 | -7.68 | 27.07 | 11.78 | 40.17 | 32.70 | 197 | 142 | Average | HORIZONTAL |
| 3 | 11202.08 | 46.25 | 54.00 | -7.75 | 27.01 | 11.83 | 40.12 | 32.71 | 212 | 356 | Average | HORIZONTAL |
| 4 | 11239.76 | 59.41 | 74.00 | -14.59 | 40.17 | 11.84 | 40.11 | 32.71 | 212 | 356 | Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11063.20 | 58.31 | 74.00 | -15.69 | 39.06 | 11.77 | 40.17 | 32.69 | 220 | 104 | Peak | VERTICAL |
| 2 | 11074.12 | 45.63 | 54.00 | -8.37 | 26.38 | 11.78 | 40.17 | 32.70 | 220 | 104 | Average | VERTICAL |
| 3 | 11205.28 | 46.70 | 54.00 | -7.30 | 27.46 | 11.83 | 40.12 | 32.71 | 233 | 154 | Average | VERTICAL |
| 4 | 11209.44 | 59.54 | 74.00 | -14.46 | 40.29 | 11.84 | 40.12 | 32.71 | 233 | 154 | Peak | VERTICAL |

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 14 / CH 122+138 / Chain 1 + Chain 3 |
|-----------------------|---|

Horizontal

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11213.44 | 49.33 | 54.00 | -4.67 | 30.08 | 11.84 | 40.12 | 32.71 | 208 | 332 | Average | HORIZONTAL |
| 2 | 11236.40 | 62.70 | 74.00 | -11.30 | 43.46 | 11.84 | 40.11 | 32.71 | 208 | 332 | Peak | HORIZONTAL |
| 3 | 11380.16 | 46.19 | 54.00 | -7.81 | 26.96 | 11.91 | 40.05 | 32.73 | 220 | 95 | Average | HORIZONTAL |
| 4 | 11384.88 | 59.54 | 74.00 | -14.46 | 40.32 | 11.91 | 40.04 | 32.73 | 220 | 95 | Peak | HORIZONTAL |

Vertical

| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|----------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 11201.36 | 59.31 | 74.00 | -14.69 | 40.07 | 11.83 | 40.12 | 32.71 | 223 | 162 | Peak | VERTICAL |
| 2 | 11202.20 | 46.91 | 54.00 | -7.09 | 27.67 | 11.83 | 40.12 | 32.71 | 223 | 162 | Average | VERTICAL |
| 3 | 11372.72 | 46.31 | 54.00 | -7.69 | 27.09 | 11.90 | 40.05 | 32.73 | 236 | 282 | Average | VERTICAL |
| 4 | 11388.24 | 59.58 | 74.00 | -14.42 | 40.36 | 11.91 | 40.04 | 32.73 | 236 | 282 | Peak | VERTICAL |

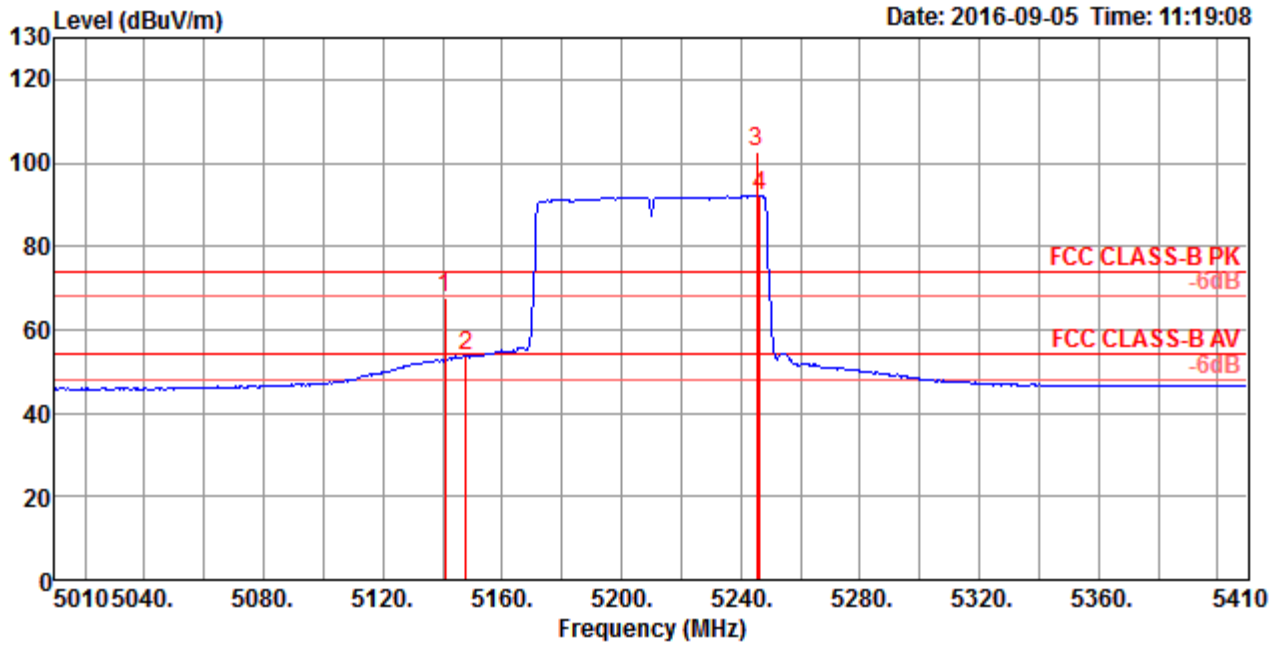


Band Edge Emissions

802.11ac MCS0/Nss1 VHT80+80

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 1 / CH 42+106 / Chain 1 + Chain 3 |
|-----------------------|---|

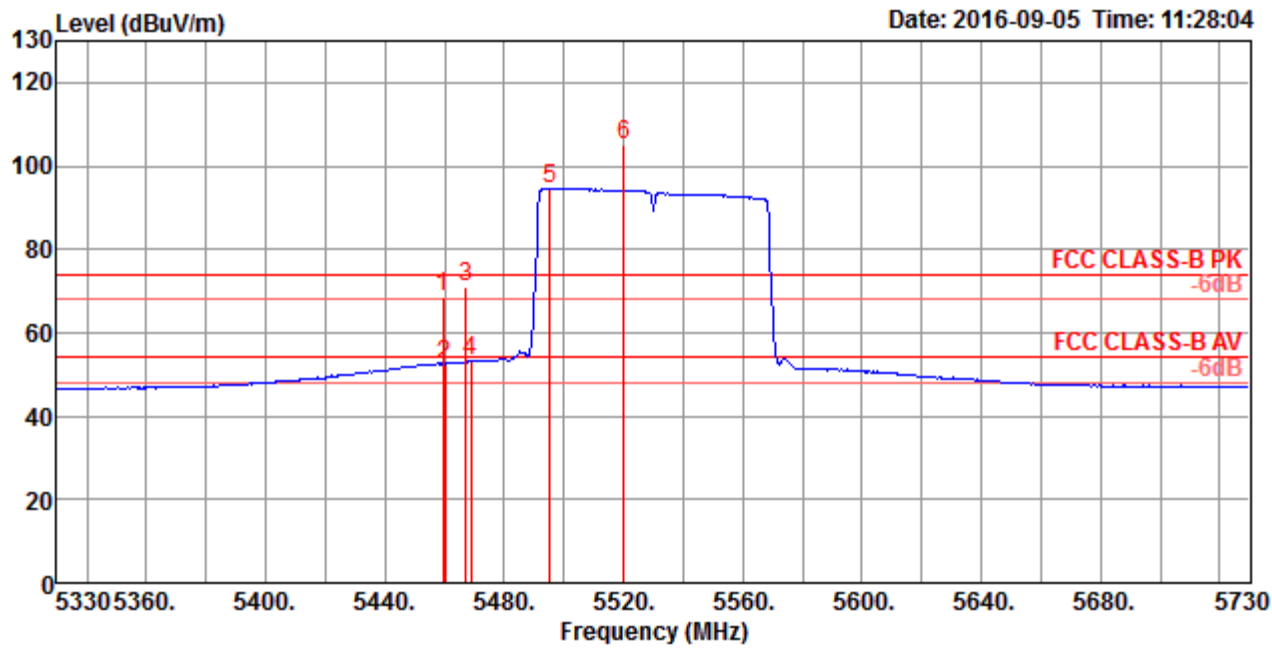
Channel 42



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5140.74 | 67.41 | 74.00 | -6.59 | 60.22 | 7.32 | 31.51 | 31.64 | 249 | 280 Peak | HORIZONTAL |
| 2 | 5148.00 | 53.76 | 54.00 | -0.24 | 46.54 | 7.34 | 31.52 | 31.64 | 249 | 280 Average | HORIZONTAL |
| 3 @ | 5245.31 | 102.89 | | | 95.48 | 7.45 | 31.59 | 31.63 | 249 | 280 Peak | HORIZONTAL |
| 4 @ | 5246.47 | 92.23 | | | 84.82 | 7.45 | 31.59 | 31.63 | 249 | 280 Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 106



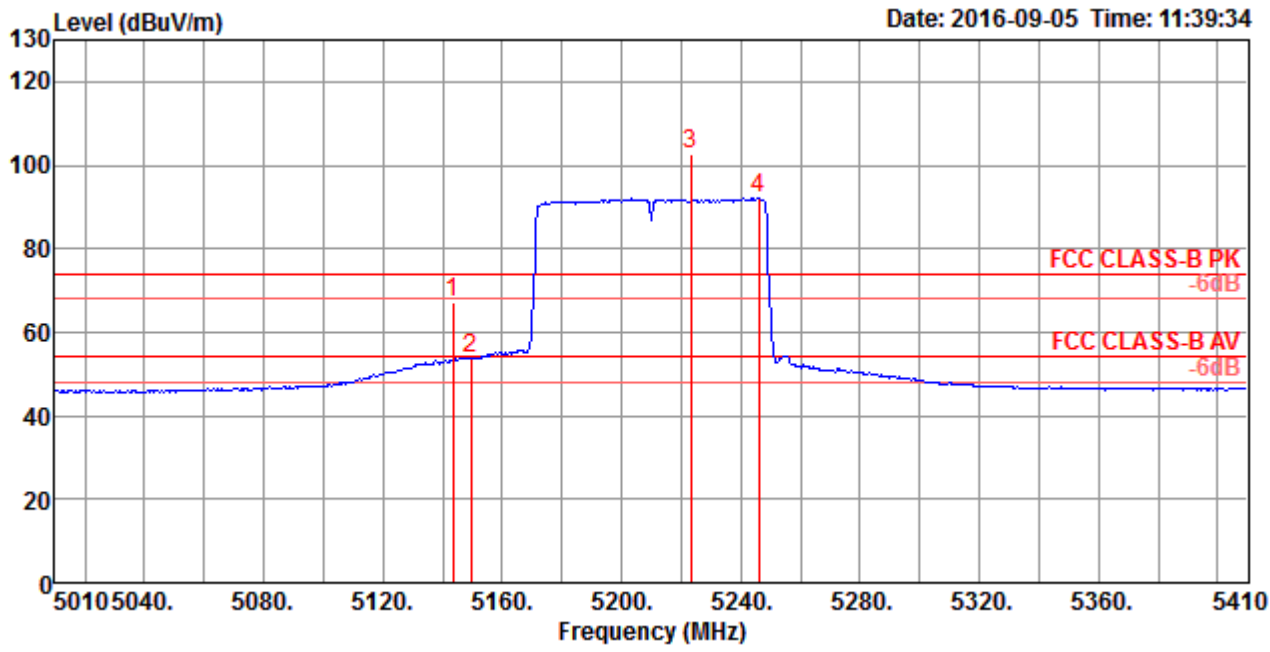
| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5459.42 | 68.56 | 74.00 | -5.44 | 60.77 | 7.64 | 31.76 | 31.61 | 263 | 93 Peak | VERTICAL |
| 2 | 5460.00 | 52.48 | 54.00 | -1.52 | 44.69 | 7.64 | 31.76 | 31.61 | 263 | 93 Average | VERTICAL |
| 3 | 5467.11 | 70.82 | 74.00 | -3.18 | 63.01 | 7.64 | 31.78 | 31.61 | 263 | 93 Peak | VERTICAL |
| 4 | 5468.84 | 53.24 | 54.00 | -0.76 | 45.43 | 7.64 | 31.78 | 31.61 | 263 | 93 Average | VERTICAL |
| 5 @ | 5495.27 | 94.69 | | | 86.87 | 7.63 | 31.80 | 31.61 | 263 | 93 Average | VERTICAL |
| 6 @ | 5520.16 | 105.06 | | | 97.23 | 7.63 | 31.82 | 31.62 | 263 | 93 Peak | VERTICAL |

Item 5, 6 are the fundamental frequency at 5530 MHz.



| | |
|----------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 2 / CH 42+122 / Chain 1 + Chain 3 |
|----------------|---|

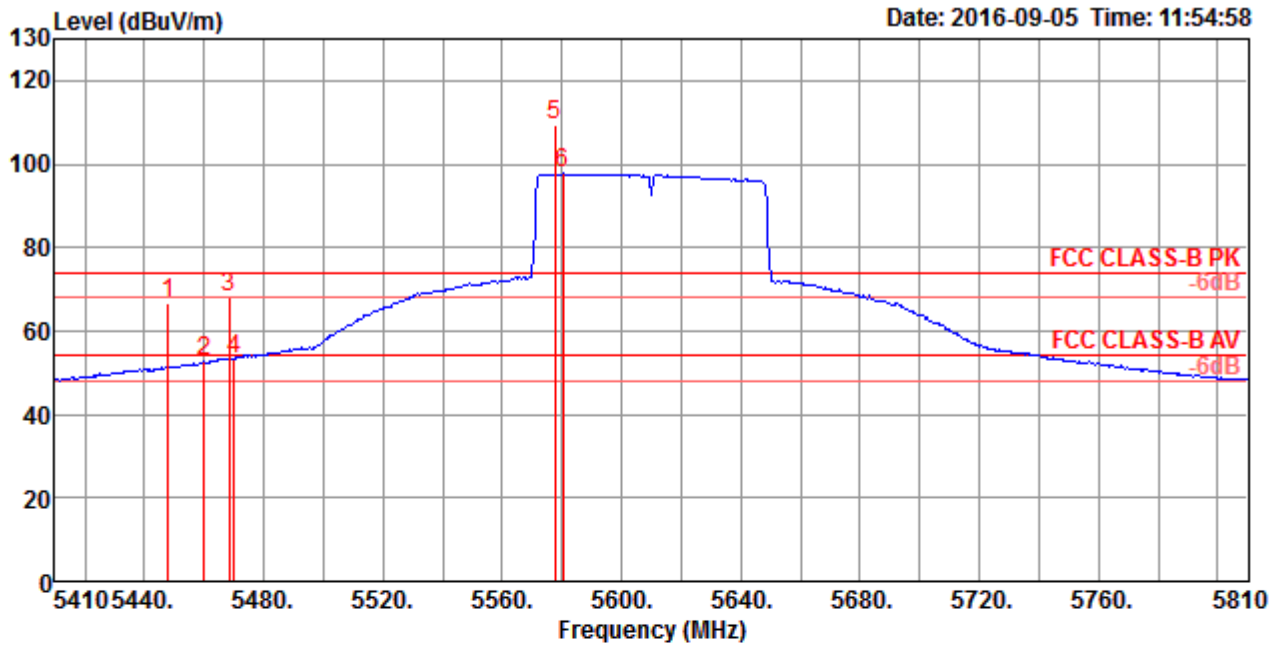
Channel 42



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5143.63 | 67.35 | 74.00 | -6.65 | 60.13 | 7.34 | 31.52 | 31.64 | 249 | 281 Peak | HORIZONTAL |
| 2 | 5149.60 | 53.79 | 54.00 | -0.21 | 46.57 | 7.34 | 31.52 | 31.64 | 249 | 281 Average | HORIZONTAL |
| 3 @ | 5223.31 | 102.58 | | | 95.21 | 7.43 | 31.58 | 31.64 | 249 | 281 Peak | HORIZONTAL |
| 4 @ | 5245.89 | 92.09 | | | 84.68 | 7.45 | 31.59 | 31.63 | 249 | 281 Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 122



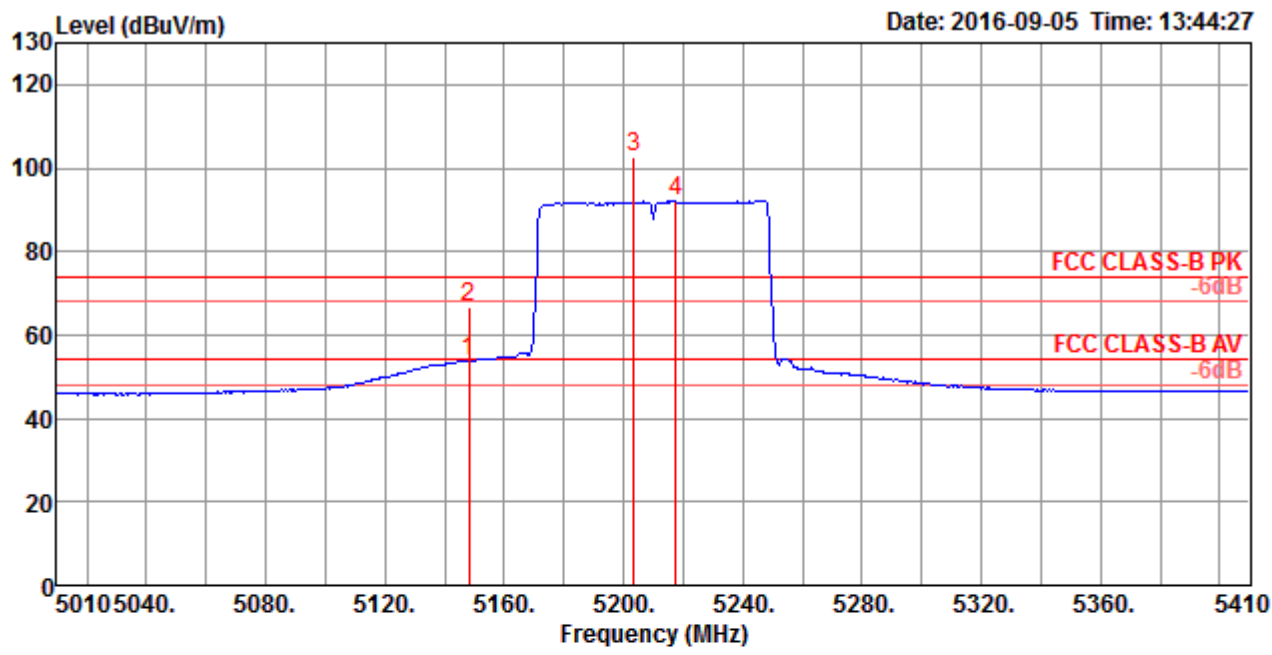
| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|-------|--------|--------------|--------|-------|-------|------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5447.84 | 66.51 | 74.00 | -7.49 | 58.73 | 7.64 | 31.76 | 31.62 | 280 | 96 Peak | VERTICAL |
| 2 | 5460.00 | 52.58 | 54.00 | -1.42 | 44.79 | 7.64 | 31.76 | 31.61 | 280 | 96 Average | VERTICAL |
| 3 | 5468.26 | 68.32 | 74.00 | -5.68 | 60.51 | 7.64 | 31.78 | 31.61 | 280 | 96 Peak | VERTICAL |
| 4 | 5470.00 | 53.43 | 54.00 | -0.57 | 45.62 | 7.64 | 31.78 | 31.61 | 280 | 96 Average | VERTICAL |
| 5 @ | 5577.58 | 109.16 | | | 101.29 | 7.61 | 31.90 | 31.64 | 280 | 96 Peak | VERTICAL |
| 6 @ | 5580.48 | 97.62 | | | 89.76 | 7.61 | 31.90 | 31.65 | 280 | 96 Average | VERTICAL |

Item 5, 6 are the fundamental frequency at 5610 MHz.



| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 3 / CH 42+138 / Chain 1 + Chain 3 |
|-----------------------|---|

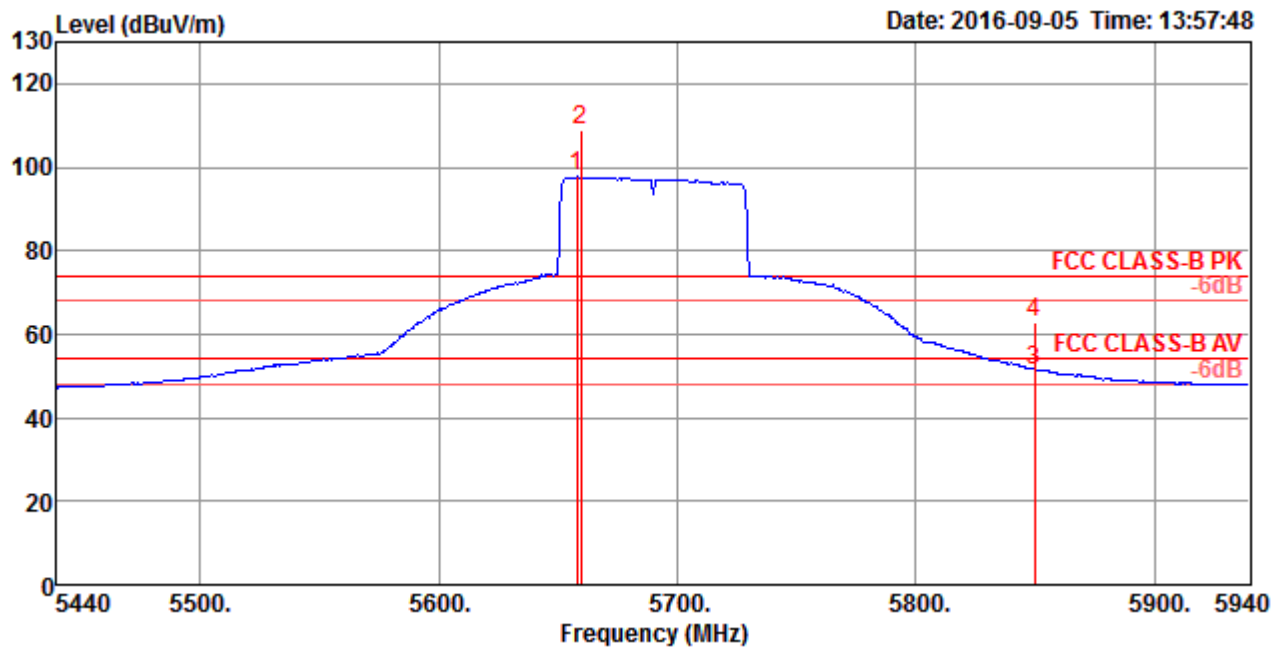
Channel 42



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5148.26 | 53.94 | 54.00 | -0.06 | 46.72 | 7.34 | 31.52 | 31.64 | 251 | 281 | Average | HORIZONTAL |
| 2 | 5148.26 | 66.82 | 74.00 | -7.18 | 59.60 | 7.34 | 31.52 | 31.64 | 251 | 281 | Peak | HORIZONTAL |
| 3 @ | 5203.63 | 102.57 | | | 95.23 | 7.41 | 31.57 | 31.64 | 251 | 281 | Peak | HORIZONTAL |
| 4 @ | 5217.53 | 92.03 | | | 84.66 | 7.43 | 31.58 | 31.64 | 251 | 281 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5210 MHz.

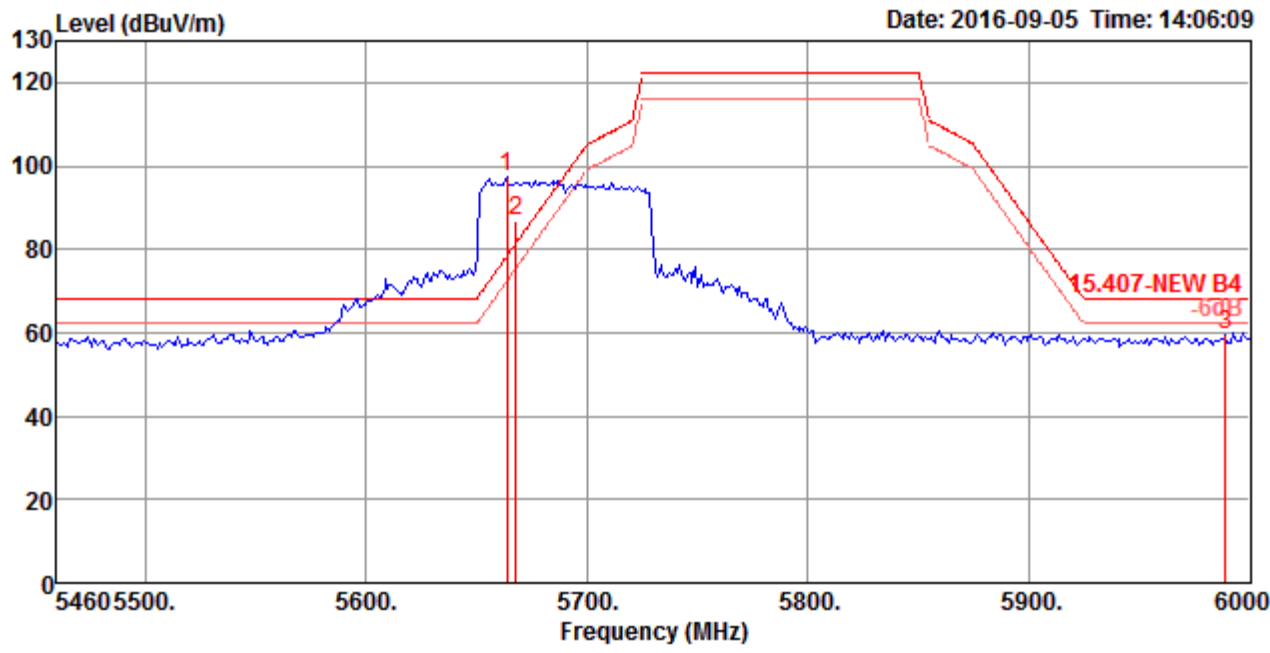
Channel 138 (UNII 2C)



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 @ | 5658.16 | 97.64 | | | 89.64 | 7.68 | 32.00 | 31.68 | 278 | 106 | Average | VERTICAL |
| 2 @ | 5659.61 | 109.09 | | | 101.09 | 7.68 | 32.00 | 31.68 | 278 | 106 | Peak | VERTICAL |
| 3 | 5850.00 | 51.49 | 54.00 | -2.51 | 43.18 | 7.84 | 32.22 | 31.75 | 278 | 106 | Average | VERTICAL |
| 4 | 5850.00 | 63.07 | 74.00 | -10.93 | 54.76 | 7.84 | 32.22 | 31.75 | 278 | 106 | Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

Channel 138 (UNII 3)



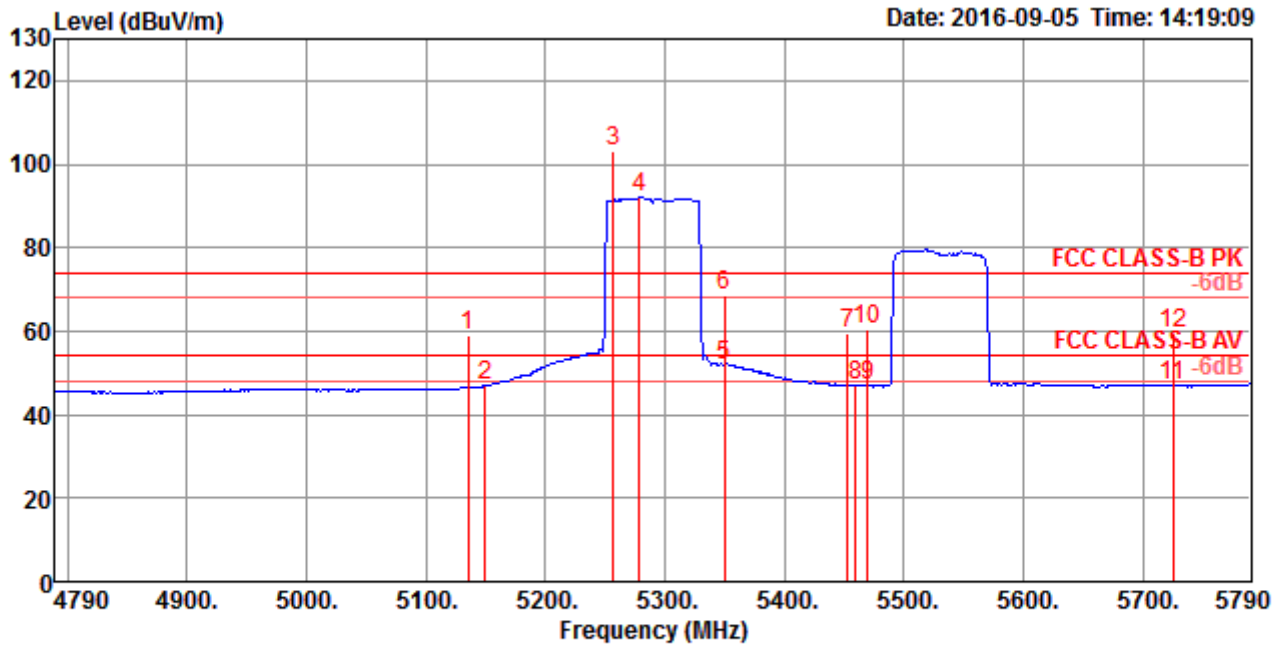
| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 @ | 5663.60 | 97.39 | | | 89.39 | 7.68 | 32.00 | 31.68 | 100 | 156 Peak | HORIZONTAL |
| 2 @ | 5668.00 | 86.74 | | | 78.74 | 7.68 | 32.00 | 31.68 | 100 | 156 Average | HORIZONTAL |
| 3 | 5989.20 | 59.69 | 68.20 | -8.51 | 51.19 | 7.92 | 32.38 | 31.80 | 100 | 156 Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.



| | |
|----------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 4 / CH 58+106 / Chain 1 + Chain 3 |
|----------------|---|

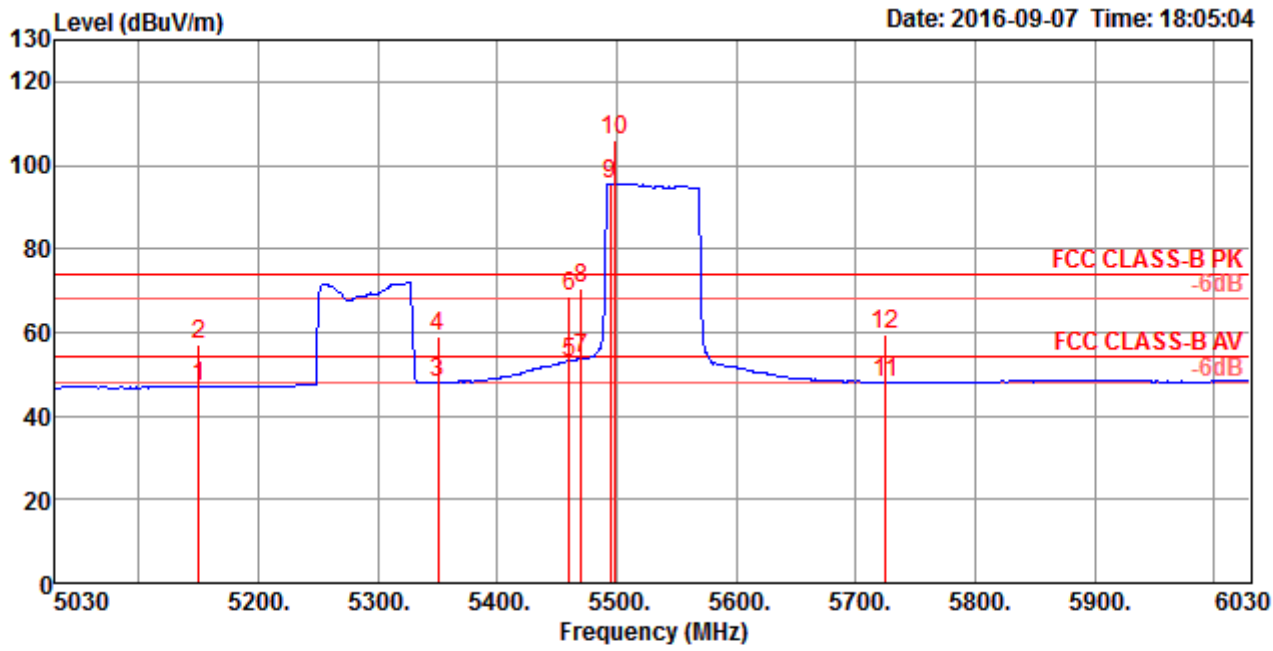
Channel 58



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5135.50 | 59.11 | 74.00 | -14.89 | 51.93 | 7.32 | 31.51 | 31.65 | 246 | 274 Peak | HORIZONTAL |
| 2 | 5150.00 | 46.82 | 54.00 | -7.18 | 39.60 | 7.34 | 31.52 | 31.64 | 246 | 274 Average | HORIZONTAL |
| 3 @ | 5256.70 | 103.20 | | | 95.75 | 7.47 | 31.61 | 31.63 | 246 | 274 Peak | HORIZONTAL |
| 4 @ | 5278.40 | 91.97 | | | 84.46 | 7.51 | 31.63 | 31.63 | 246 | 274 Average | HORIZONTAL |
| 5 | 5350.00 | 51.87 | 54.00 | -2.13 | 44.21 | 7.60 | 31.68 | 31.62 | 246 | 274 Average | HORIZONTAL |
| 6 | 5350.00 | 68.81 | 74.00 | -5.19 | 61.15 | 7.60 | 31.68 | 31.62 | 246 | 274 Peak | HORIZONTAL |
| 7 | 5452.80 | 59.48 | 74.00 | -14.52 | 51.69 | 7.64 | 31.76 | 31.61 | 246 | 274 Peak | HORIZONTAL |
| 8 | 5460.00 | 46.96 | 54.00 | -7.04 | 39.17 | 7.64 | 31.76 | 31.61 | 246 | 274 Average | HORIZONTAL |
| 9 | 5470.00 | 46.81 | 54.00 | -7.19 | 39.00 | 7.64 | 31.78 | 31.61 | 246 | 274 Average | HORIZONTAL |
| 10 | 5470.00 | 60.61 | 74.00 | -13.39 | 52.80 | 7.64 | 31.78 | 31.61 | 246 | 274 Peak | HORIZONTAL |
| 11 | 5725.00 | 46.83 | 54.00 | -7.17 | 38.71 | 7.74 | 32.08 | 31.70 | 246 | 274 Average | HORIZONTAL |
| 12 | 5726.40 | 59.71 | 74.00 | -14.29 | 51.60 | 7.74 | 32.08 | 31.71 | 246 | 274 Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

Channel 106

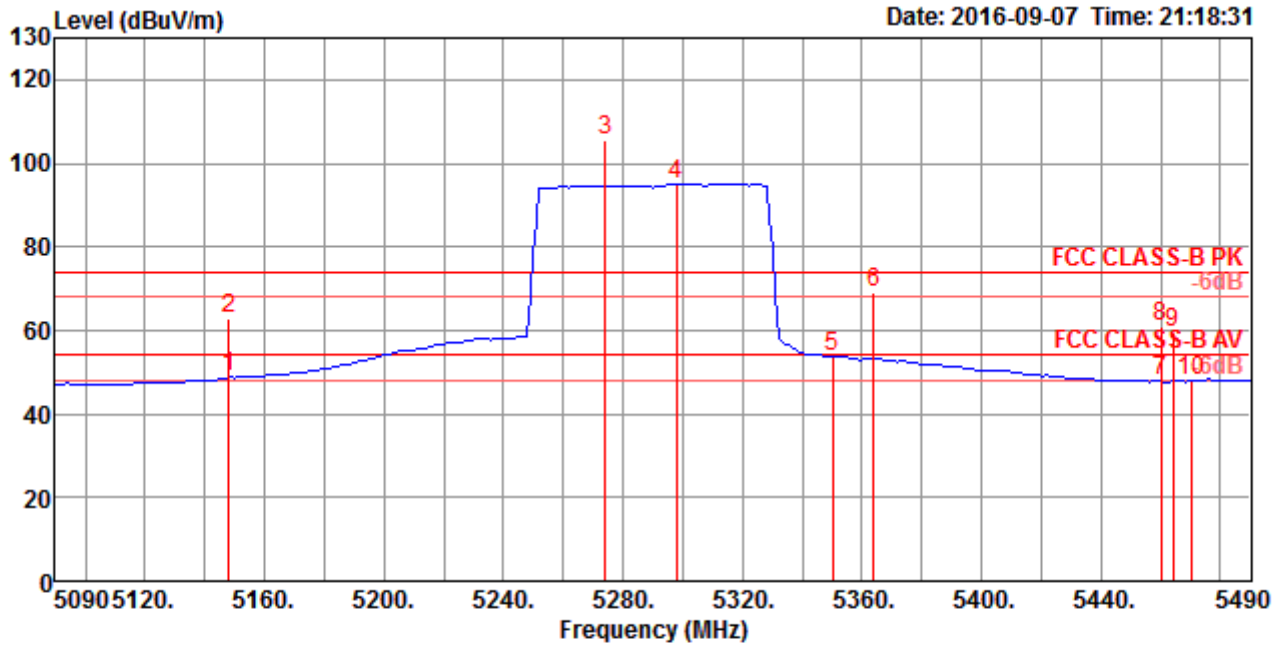


| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|------|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5150.00 | 46.96 | 54.00 | -7.04 | 38.44 | 8.05 | 31.52 | 31.05 | 277 | 103 | Average | VERTICAL |
| 2 | 5150.00 | 57.17 | 74.00 | -16.83 | 48.65 | 8.05 | 31.52 | 31.05 | 277 | 103 | Peak | VERTICAL |
| 3 | 5350.00 | 47.76 | 54.00 | -6.24 | 38.85 | 8.26 | 31.68 | 31.03 | 277 | 103 | Average | VERTICAL |
| 4 | 5350.00 | 58.94 | 74.00 | -15.06 | 50.03 | 8.26 | 31.68 | 31.03 | 277 | 103 | Peak | VERTICAL |
| 5 | 5460.00 | 52.99 | 54.00 | -1.01 | 43.84 | 8.41 | 31.76 | 31.02 | 277 | 103 | Average | VERTICAL |
| 6 | 5460.00 | 68.79 | 74.00 | -5.21 | 59.64 | 8.41 | 31.76 | 31.02 | 277 | 103 | Peak | VERTICAL |
| 7 | 5470.00 | 53.76 | 54.00 | -0.24 | 44.57 | 8.43 | 31.78 | 31.02 | 277 | 103 | Average | VERTICAL |
| 8 | 5470.00 | 70.62 | 74.00 | -3.38 | 61.43 | 8.43 | 31.78 | 31.02 | 277 | 103 | Peak | VERTICAL |
| 9 @ | 5494.00 | 95.50 | | | 86.27 | 8.46 | 31.79 | 31.02 | 277 | 103 | Average | VERTICAL |
| 10 @ | 5498.00 | 105.92 | | | 96.65 | 8.49 | 31.80 | 31.02 | 277 | 103 | Peak | VERTICAL |
| 11 | 5725.00 | 48.09 | 54.00 | -5.91 | 38.58 | 8.54 | 32.08 | 31.11 | 277 | 103 | Average | VERTICAL |
| 12 | 5725.00 | 59.46 | 74.00 | -14.54 | 49.95 | 8.54 | 32.08 | 31.11 | 277 | 103 | Peak | VERTICAL |

Item 9, 10 are the fundamental frequency at 5530 MHz.

| | |
|----------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 5 / CH 58+122 / Chain 1 + Chain 3 |
|----------------|---|

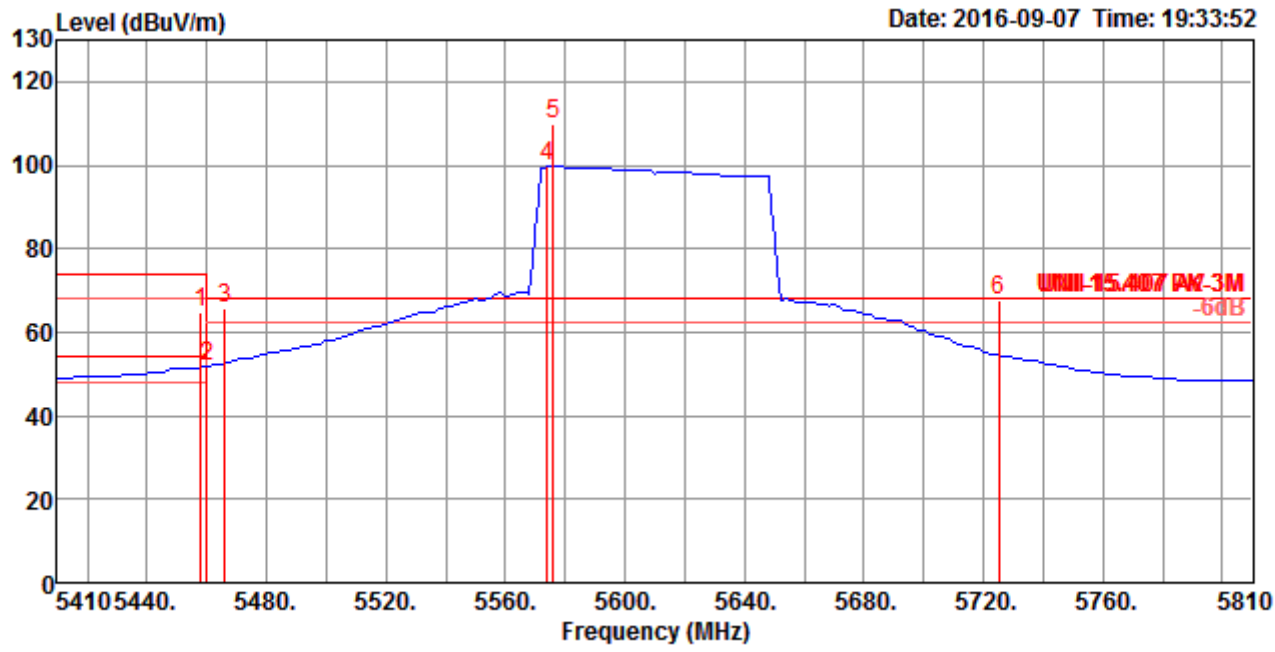
Channel 58



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5148.00 | 48.78 | 54.00 | -5.22 | 40.26 | 8.05 | 31.52 | 31.05 | 251 | 276 | Average | HORIZONTAL |
| 2 | 5148.00 | 62.91 | 74.00 | -11.09 | 54.39 | 8.05 | 31.52 | 31.05 | 251 | 276 | Peak | HORIZONTAL |
| 3 @ | 5274.00 | 105.47 | | | 96.74 | 8.15 | 31.62 | 31.04 | 251 | 276 | Peak | HORIZONTAL |
| 4 @ | 5298.00 | 94.94 | | | 86.15 | 8.19 | 31.64 | 31.04 | 251 | 276 | Average | HORIZONTAL |
| 5 | 5350.00 | 53.87 | 54.00 | -0.13 | 44.96 | 8.26 | 31.68 | 31.03 | 251 | 276 | Average | HORIZONTAL |
| 6 | 5364.00 | 69.12 | 74.00 | -4.88 | 60.18 | 8.28 | 31.69 | 31.03 | 251 | 276 | Peak | HORIZONTAL |
| 7 | 5460.00 | 47.74 | 54.00 | -6.26 | 38.59 | 8.41 | 31.76 | 31.02 | 251 | 276 | Average | HORIZONTAL |
| 8 | 5460.00 | 60.78 | 74.00 | -13.22 | 51.63 | 8.41 | 31.76 | 31.02 | 251 | 276 | Peak | HORIZONTAL |
| 9 | 5464.00 | 59.62 | 74.00 | -14.38 | 50.43 | 8.43 | 31.78 | 31.02 | 251 | 276 | Peak | HORIZONTAL |
| 10 | 5470.00 | 48.03 | 54.00 | -5.97 | 38.84 | 8.43 | 31.78 | 31.02 | 251 | 276 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

Channel 122



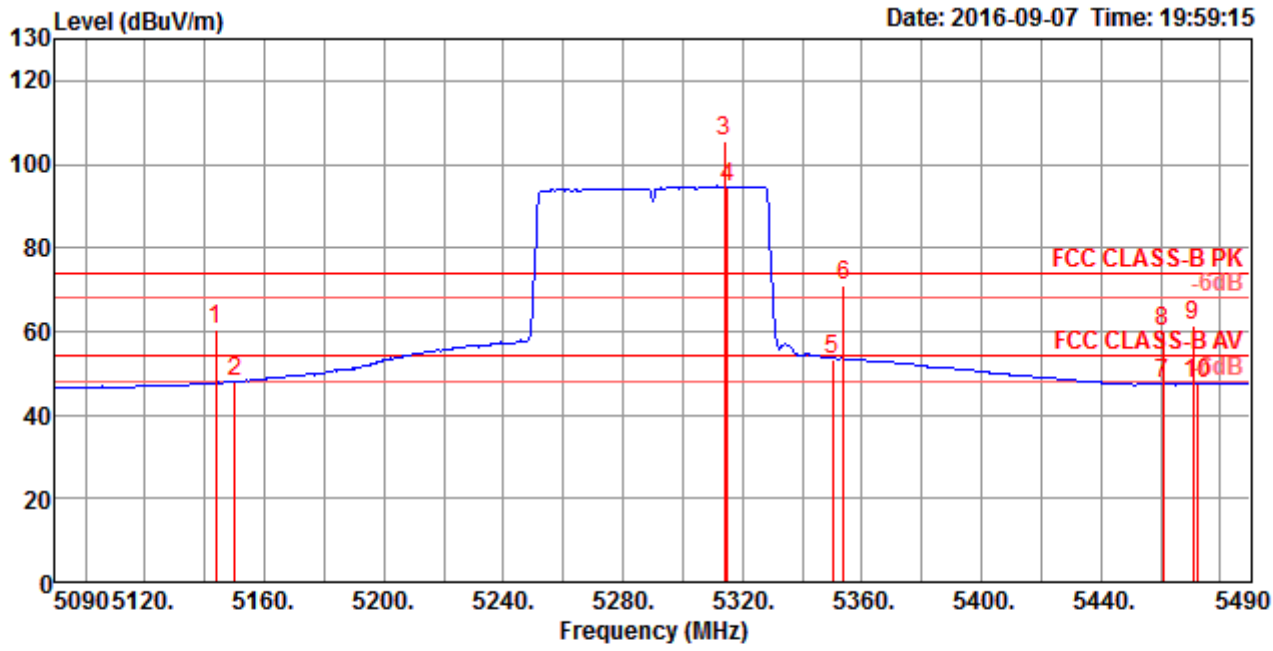
| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|--------|-------|--------|--------------|--------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5458.00 | 65.00 | 74.00 | -9.00 | 55.85 | 8.41 | 31.76 | 31.02 | 288 | 105 | Peak | VERTICAL |
| 2 | 5460.00 | 51.97 | 54.00 | -2.03 | 42.82 | 8.41 | 31.76 | 31.02 | 288 | 105 | Average | VERTICAL |
| 3 | 5466.00 | 65.82 | 68.20 | -2.38 | 56.63 | 8.43 | 31.78 | 31.02 | 288 | 105 | Peak | VERTICAL |
| 4 @ | 5574.00 | 99.82 | | | 90.39 | 8.60 | 31.88 | 31.05 | 288 | 105 | Average | VERTICAL |
| 5 @ | 5576.00 | 110.04 | | | 100.59 | 8.60 | 31.90 | 31.05 | 288 | 105 | Peak | VERTICAL |
| 6 | 5725.00 | 67.83 | 68.20 | -0.37 | 58.32 | 8.54 | 32.08 | 31.11 | 288 | 105 | Peak | VERTICAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.



| | |
|----------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 6 / CH 58+138 / Chain 1 + Chain 3 |
|----------------|---|

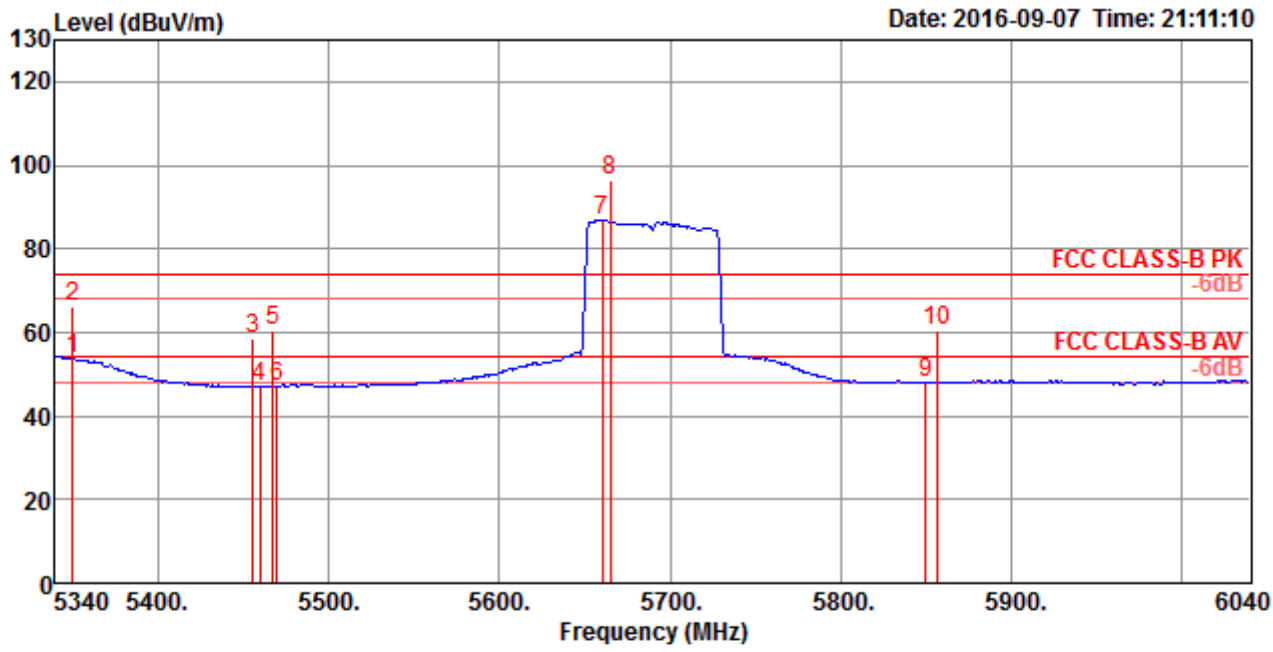
Channel 58



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5143.60 | 60.50 | 74.00 | -13.50 | 51.98 | 8.05 | 31.52 | 31.05 | 228 | 306 | Peak | HORIZONTAL |
| 2 | 5150.00 | 47.87 | 54.00 | -6.13 | 39.35 | 8.05 | 31.52 | 31.05 | 228 | 306 | Average | HORIZONTAL |
| 3 @ | 5314.00 | 105.45 | | | 96.62 | 8.22 | 31.65 | 31.04 | 228 | 306 | Peak | HORIZONTAL |
| 4 @ | 5314.80 | 94.67 | | | 85.84 | 8.22 | 31.65 | 31.04 | 228 | 306 | Average | HORIZONTAL |
| 5 | 5350.00 | 53.48 | 54.00 | -0.52 | 44.57 | 8.26 | 31.68 | 31.03 | 228 | 306 | Average | HORIZONTAL |
| 6 | 5354.00 | 71.07 | 74.00 | -2.93 | 62.16 | 8.26 | 31.68 | 31.03 | 228 | 306 | Peak | HORIZONTAL |
| 7 | 5460.80 | 47.41 | 54.00 | -6.59 | 38.26 | 8.41 | 31.76 | 31.02 | 228 | 306 | Average | HORIZONTAL |
| 8 | 5460.80 | 59.85 | 74.00 | -14.15 | 50.70 | 8.41 | 31.76 | 31.02 | 228 | 306 | Peak | HORIZONTAL |
| 9 | 5470.80 | 61.29 | 74.00 | -12.71 | 52.10 | 8.43 | 31.78 | 31.02 | 228 | 306 | Peak | HORIZONTAL |
| 10 | 5472.40 | 47.51 | 54.00 | -6.49 | 38.32 | 8.43 | 31.78 | 31.02 | 228 | 306 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

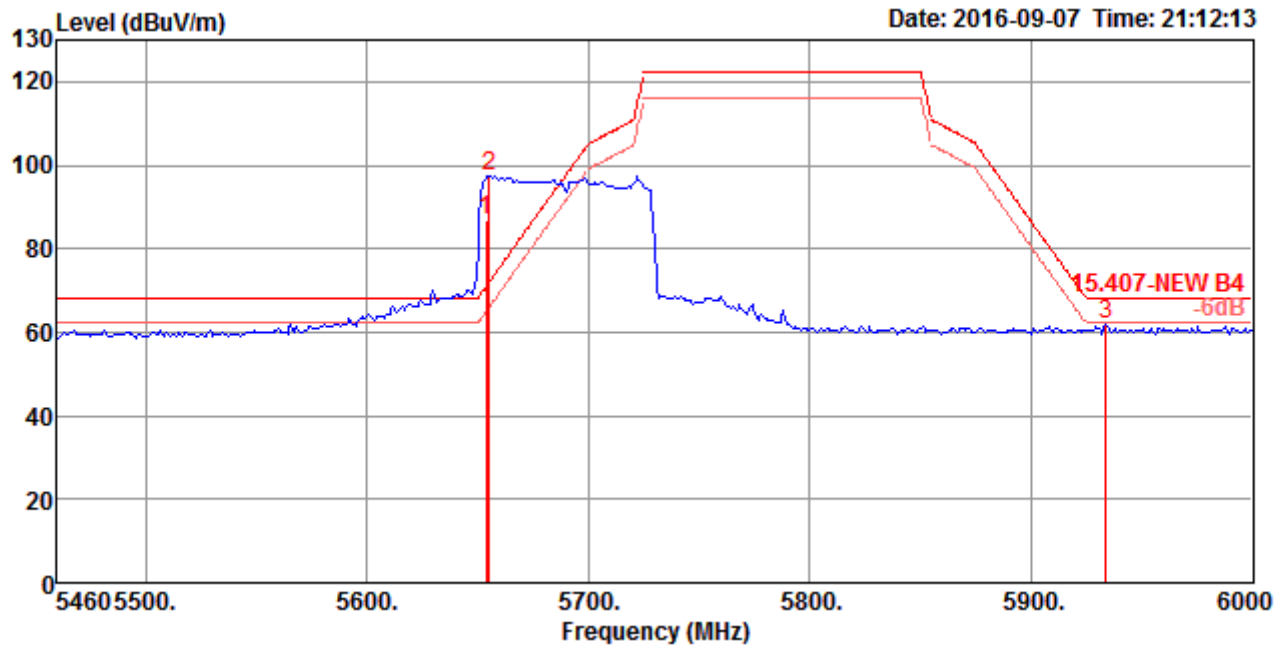
Channel 138 (UNII 2C)



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5350.00 | 53.75 | 54.00 | -0.25 | 44.84 | 8.26 | 31.68 | 31.03 | 286 | 66 Average | HORIZONTAL |
| 2 | 5350.00 | 66.16 | 74.00 | -7.84 | 57.25 | 8.26 | 31.68 | 31.03 | 286 | 66 Peak | HORIZONTAL |
| 3 | 5455.80 | 58.75 | 74.00 | -15.25 | 49.60 | 8.41 | 31.76 | 31.02 | 286 | 66 Peak | HORIZONTAL |
| 4 | 5460.00 | 46.94 | 54.00 | -7.06 | 37.79 | 8.41 | 31.76 | 31.02 | 286 | 66 Average | HORIZONTAL |
| 5 | 5467.20 | 60.53 | 74.00 | -13.47 | 51.34 | 8.43 | 31.78 | 31.02 | 286 | 66 Peak | HORIZONTAL |
| 6 | 5470.00 | 47.22 | 54.00 | -6.78 | 38.03 | 8.43 | 31.78 | 31.02 | 286 | 66 Average | HORIZONTAL |
| 7 @ | 5660.60 | 86.95 | | | 77.43 | 8.61 | 32.00 | 31.09 | 286 | 66 Average | HORIZONTAL |
| 8 @ | 5664.80 | 96.41 | | | 86.89 | 8.61 | 32.00 | 31.09 | 286 | 66 Peak | HORIZONTAL |
| 9 | 5850.00 | 48.04 | 54.00 | -5.96 | 38.41 | 8.57 | 32.22 | 31.16 | 286 | 66 Average | HORIZONTAL |
| 10 | 5857.00 | 60.58 | 74.00 | -13.42 | 50.90 | 8.60 | 32.24 | 31.16 | 286 | 66 Peak | HORIZONTAL |

Item 7, 8 are the fundamental frequency at 5690 MHz.

Channel 138 (UNII 3)



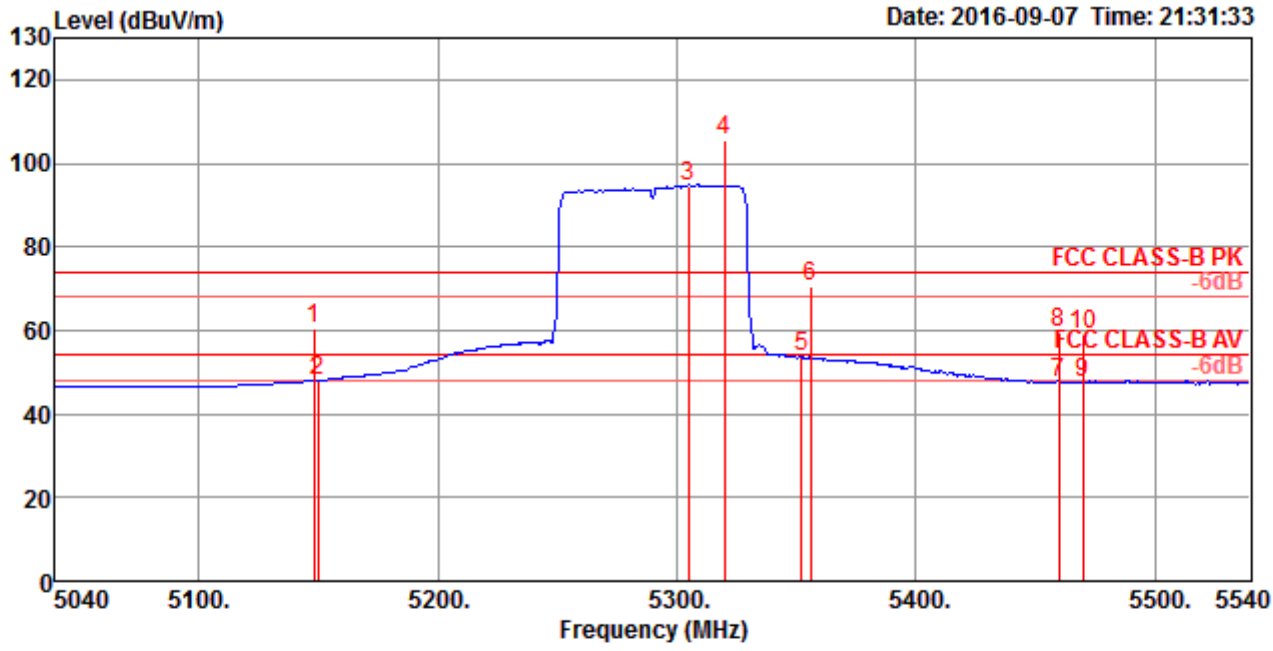
| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 @ | 5653.60 | 86.90 | | | 77.40 | 8.61 | 31.98 | 31.09 | 286 | 66 Average | HORIZONTAL |
| 2 @ | 5655.00 | 97.57 | | | 88.07 | 8.61 | 31.98 | 31.09 | 286 | 66 Peak | HORIZONTAL |
| 3 | 5933.60 | 61.99 | 68.20 | -6.21 | 52.14 | 8.72 | 32.32 | 31.19 | 286 | 66 Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.



| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 7 / CH 58+155 / Chain 1 + Chain 3 |
|-----------------------|---|

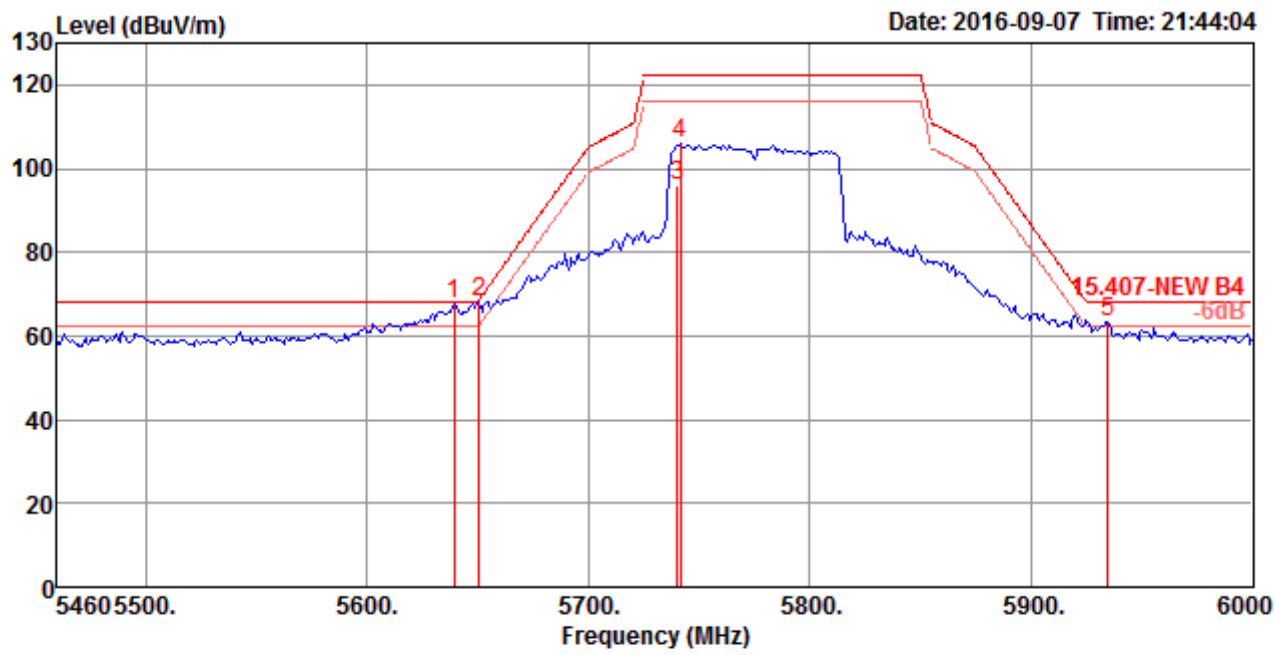
Channel 58



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5148.00 | 60.52 | 74.00 | -13.48 | 52.00 | 8.05 | 31.52 | 31.05 | 245 | 305 | Peak | HORIZONTAL |
| 2 | 5150.00 | 48.09 | 54.00 | -5.91 | 39.57 | 8.05 | 31.52 | 31.05 | 245 | 305 | Average | HORIZONTAL |
| 3 @ | 5305.00 | 94.74 | | | 85.95 | 8.19 | 31.64 | 31.04 | 245 | 305 | Average | HORIZONTAL |
| 4 @ | 5320.00 | 105.54 | | | 96.71 | 8.22 | 31.65 | 31.04 | 245 | 305 | Peak | HORIZONTAL |
| 5 | 5352.00 | 53.51 | 54.00 | -0.49 | 44.60 | 8.26 | 31.68 | 31.03 | 245 | 305 | Average | HORIZONTAL |
| 6 | 5356.00 | 70.38 | 74.00 | -3.62 | 61.46 | 8.26 | 31.69 | 31.03 | 245 | 305 | Peak | HORIZONTAL |
| 7 | 5460.00 | 47.68 | 54.00 | -6.32 | 38.53 | 8.41 | 31.76 | 31.02 | 245 | 305 | Average | HORIZONTAL |
| 8 | 5460.00 | 59.30 | 74.00 | -14.70 | 50.15 | 8.41 | 31.76 | 31.02 | 245 | 305 | Peak | HORIZONTAL |
| 9 | 5470.00 | 47.47 | 54.00 | -6.53 | 38.28 | 8.43 | 31.78 | 31.02 | 245 | 305 | Average | HORIZONTAL |
| 10 | 5470.00 | 59.06 | 74.00 | -14.94 | 49.87 | 8.43 | 31.78 | 31.02 | 245 | 305 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

Channel 155



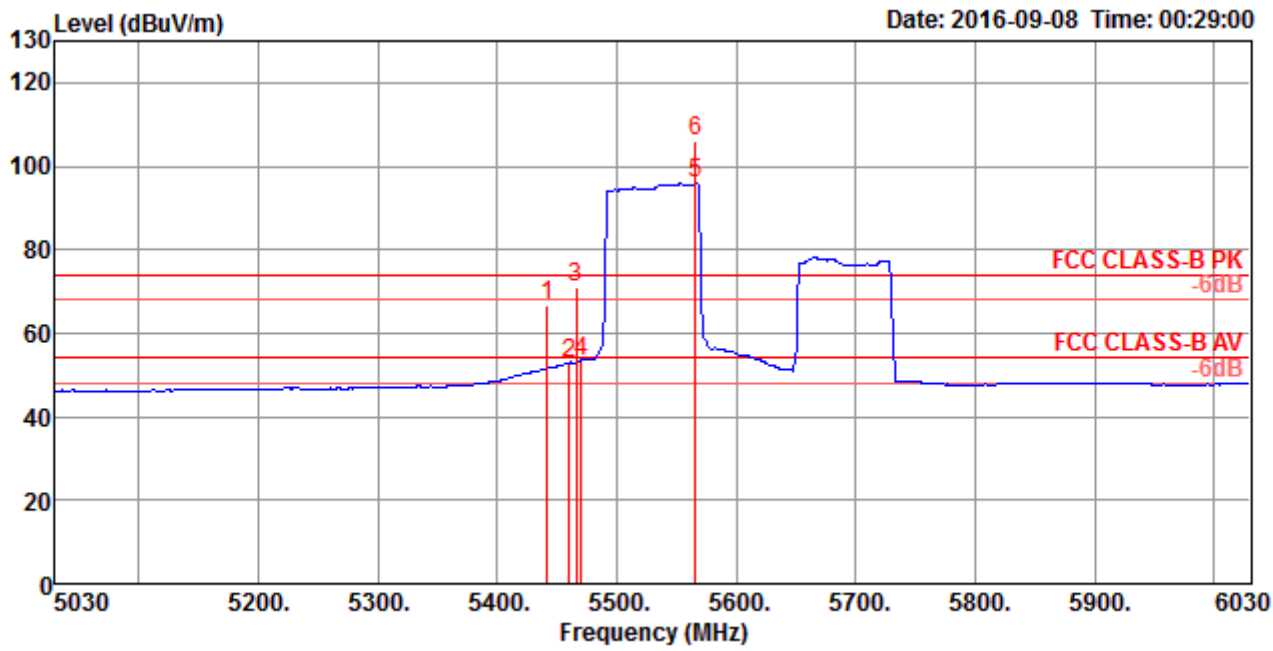
| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5639.20 | 67.63 | 68.20 | -0.57 | 58.13 | 8.62 | 31.96 | 31.08 | 283 | 92 Peak | VERTICAL |
| 2 | 5650.40 | 68.32 | 68.50 | -0.18 | 58.81 | 8.61 | 31.98 | 31.08 | 283 | 92 Peak | VERTICAL |
| 3 | 5740.00 | 95.90 | | | 86.39 | 8.53 | 32.10 | 31.12 | 283 | 92 Average | VERTICAL |
| 4 | 5741.40 | 105.78 | | | 96.27 | 8.53 | 32.10 | 31.12 | 283 | 92 Peak | VERTICAL |
| 5 | 5934.60 | 63.43 | 68.20 | -4.77 | 53.58 | 8.72 | 32.32 | 31.19 | 283 | 92 Peak | VERTICAL |

Item 3, 4 are the fundamental frequency at 5775 MHz.



| | |
|-----------------------|--|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 8 / CH 106+138 / Chain 1 + Chain 3 |
|-----------------------|--|

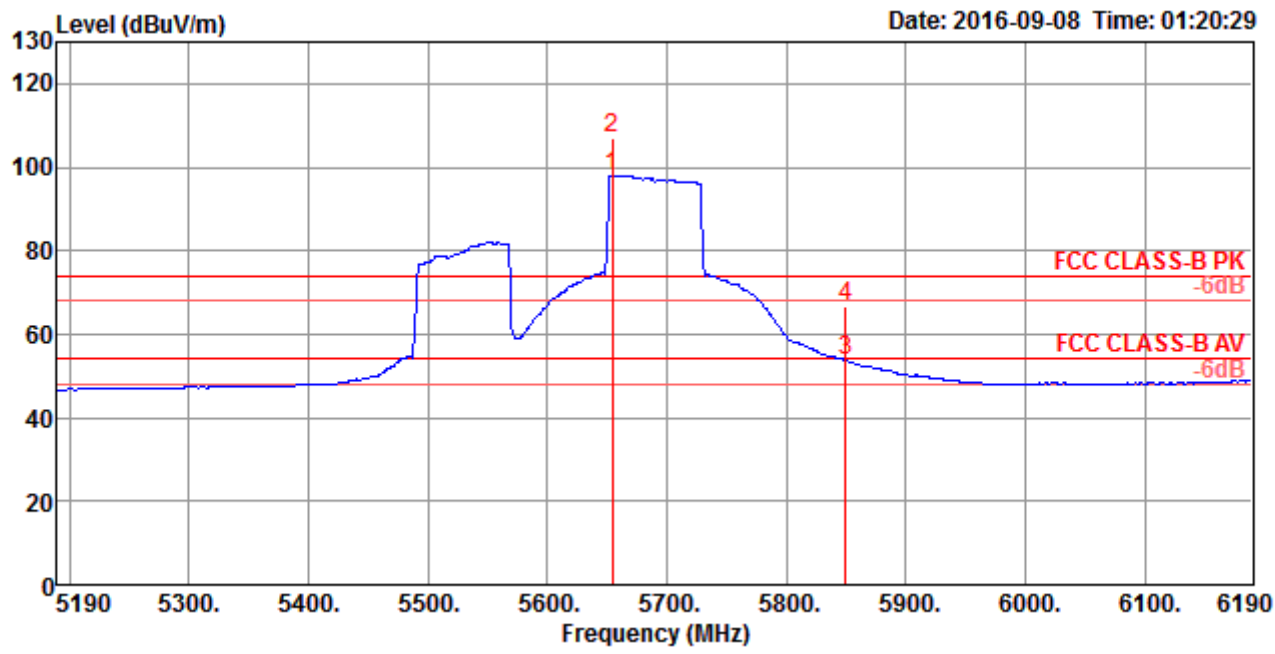
Channel 106



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5442.00 | 66.80 | 74.00 | -7.20 | 57.70 | 8.38 | 31.75 | 31.03 | 296 | 319 Peak | HORIZONTAL |
| 2 | 5460.00 | 52.65 | 54.00 | -1.35 | 43.50 | 8.41 | 31.76 | 31.02 | 296 | 319 Average | HORIZONTAL |
| 3 | 5466.00 | 71.09 | 74.00 | -2.91 | 61.90 | 8.43 | 31.78 | 31.02 | 296 | 319 Peak | HORIZONTAL |
| 4 | 5470.00 | 53.42 | 54.00 | -0.58 | 44.23 | 8.43 | 31.78 | 31.02 | 296 | 319 Average | HORIZONTAL |
| 5 @ | 5566.00 | 95.96 | | | 86.53 | 8.60 | 31.88 | 31.05 | 296 | 319 Average | HORIZONTAL |
| 6 @ | 5566.00 | 105.96 | | | 96.53 | 8.60 | 31.88 | 31.05 | 296 | 319 Peak | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5530 MHz.

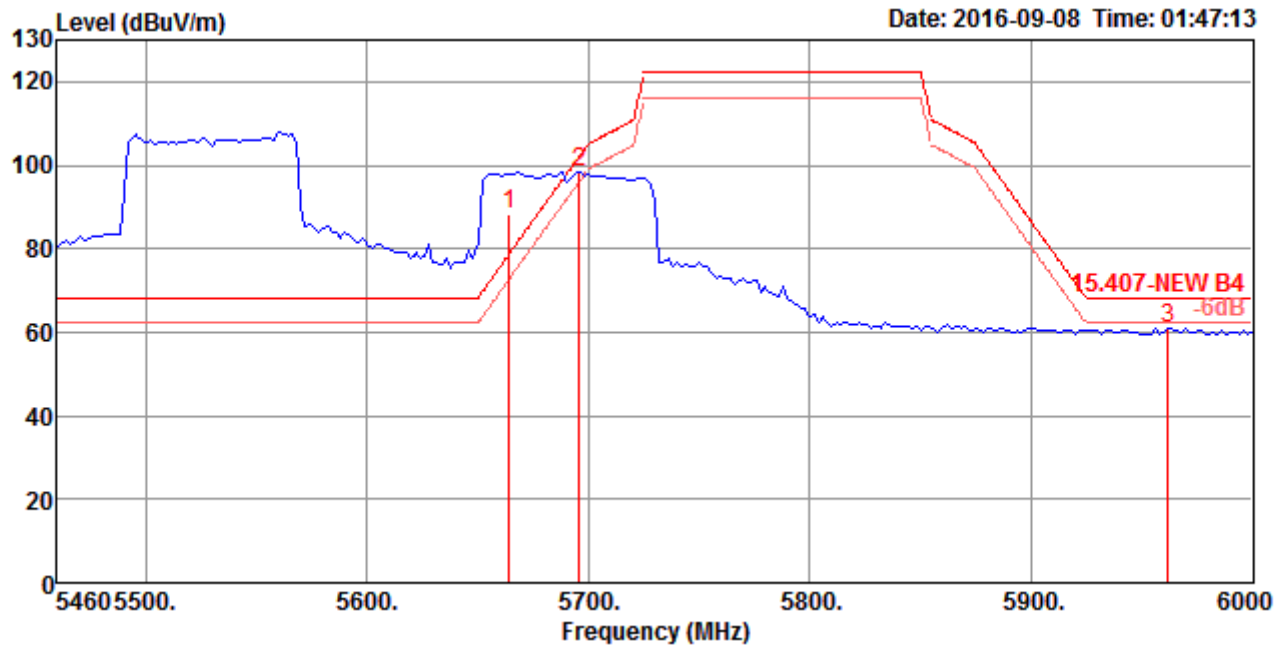
Channel 138 (UNII 2C)



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 @ | 5654.00 | 98.03 | | | 88.53 | 8.61 | 31.98 | 31.09 | 271 | 106 | Average | VERTICAL |
| 2 @ | 5654.00 | 107.05 | | | 97.55 | 8.61 | 31.98 | 31.09 | 271 | 106 | Peak | VERTICAL |
| 3 | 5850.00 | 53.79 | 54.00 | -0.21 | 44.16 | 8.57 | 32.22 | 31.16 | 271 | 106 | Average | VERTICAL |
| 4 | 5850.00 | 66.60 | 74.00 | -7.40 | 56.97 | 8.57 | 32.22 | 31.16 | 271 | 106 | Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

Channel 138 (UNII 3)

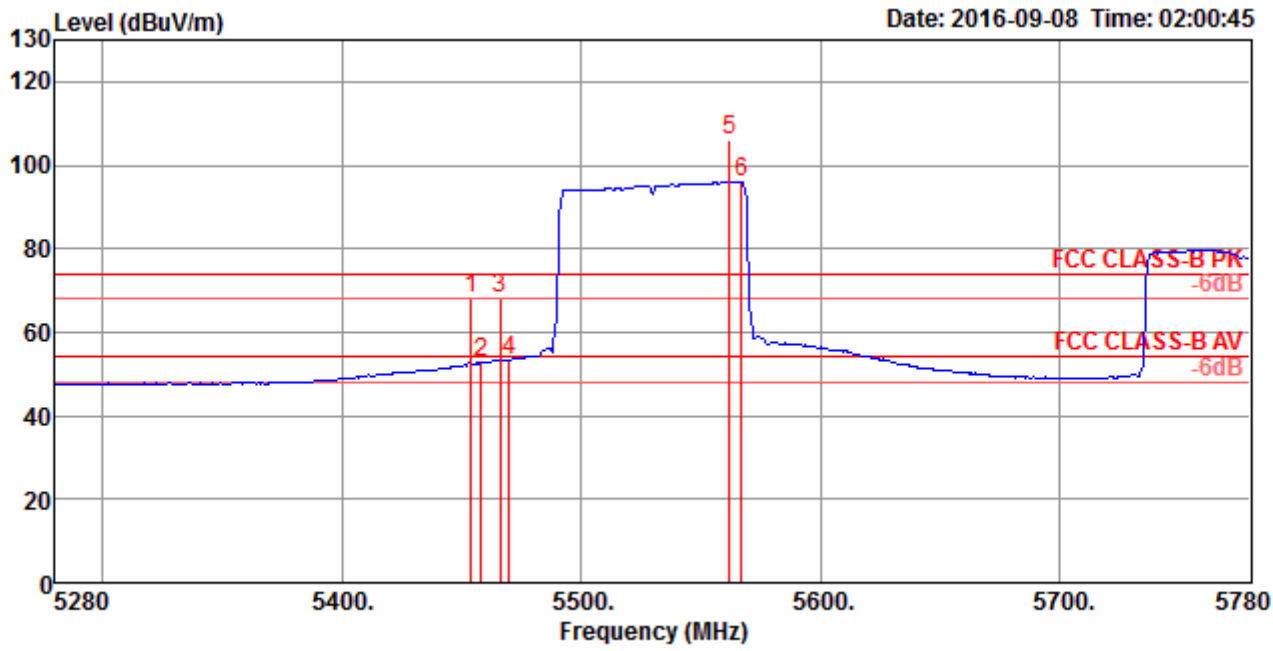


| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 @ | 5664.00 | 88.39 | | | 78.87 | 8.61 | 32.00 | 31.09 | 305 | 180 Average | HORIZONTAL |
| 2 | 5696.00 | 98.20 | | | 88.69 | 8.57 | 32.04 | 31.10 | 305 | 180 Peak | HORIZONTAL |
| 3 | 5962.00 | 60.98 | 68.20 | -7.22 | 51.05 | 8.78 | 32.36 | 31.21 | 305 | 180 Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

| | |
|-----------------------|--|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 9 / CH 106+155 / Chain 1 + Chain 3 |
|-----------------------|--|

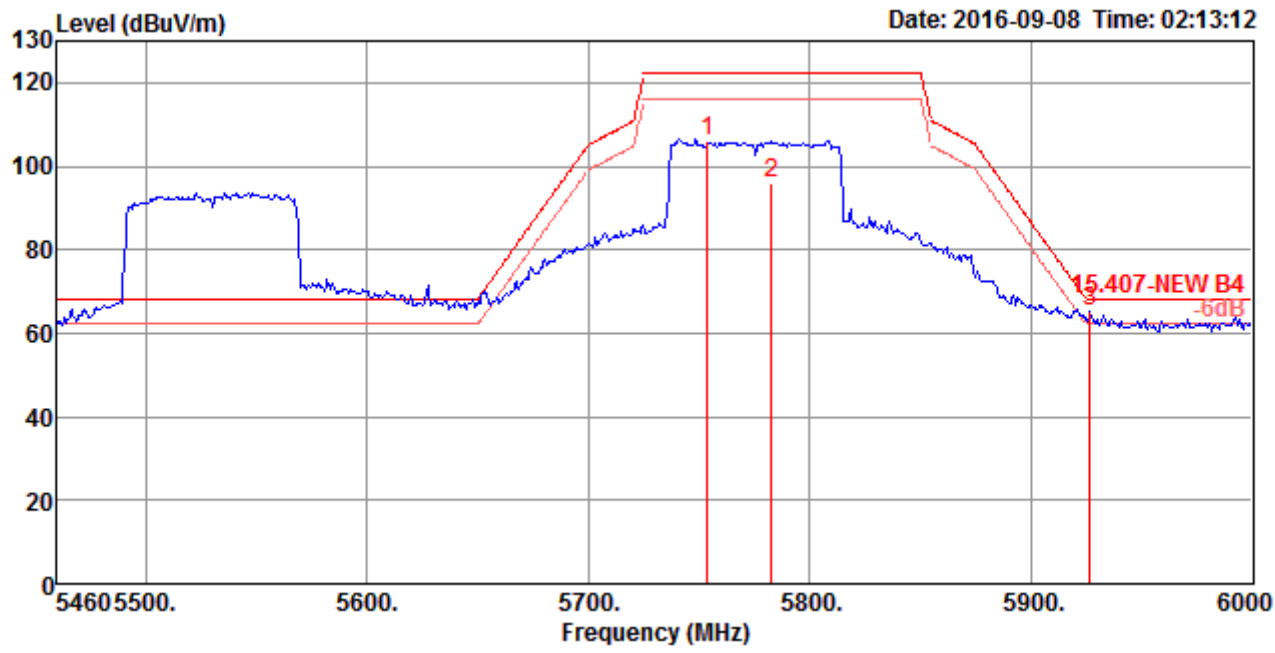
Channel 106



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5454.00 | 68.20 | 74.00 | -5.80 | 59.05 | 8.41 | 31.76 | 31.02 | 272 | 193 Peak | HORIZONTAL |
| 2 | 5458.00 | 52.75 | 54.00 | -1.25 | 43.60 | 8.41 | 31.76 | 31.02 | 272 | 193 Average | HORIZONTAL |
| 3 | 5466.00 | 68.20 | 74.00 | -5.80 | 59.01 | 8.43 | 31.78 | 31.02 | 272 | 193 Peak | HORIZONTAL |
| 4 | 5470.00 | 53.45 | 54.00 | -0.55 | 44.26 | 8.43 | 31.78 | 31.02 | 272 | 193 Average | HORIZONTAL |
| 5 @ | 5562.00 | 106.25 | | | 96.85 | 8.57 | 31.88 | 31.05 | 272 | 193 Peak | HORIZONTAL |
| 6 @ | 5567.00 | 96.14 | | | 86.71 | 8.60 | 31.88 | 31.05 | 272 | 193 Average | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5530 MHz.

Channel 155

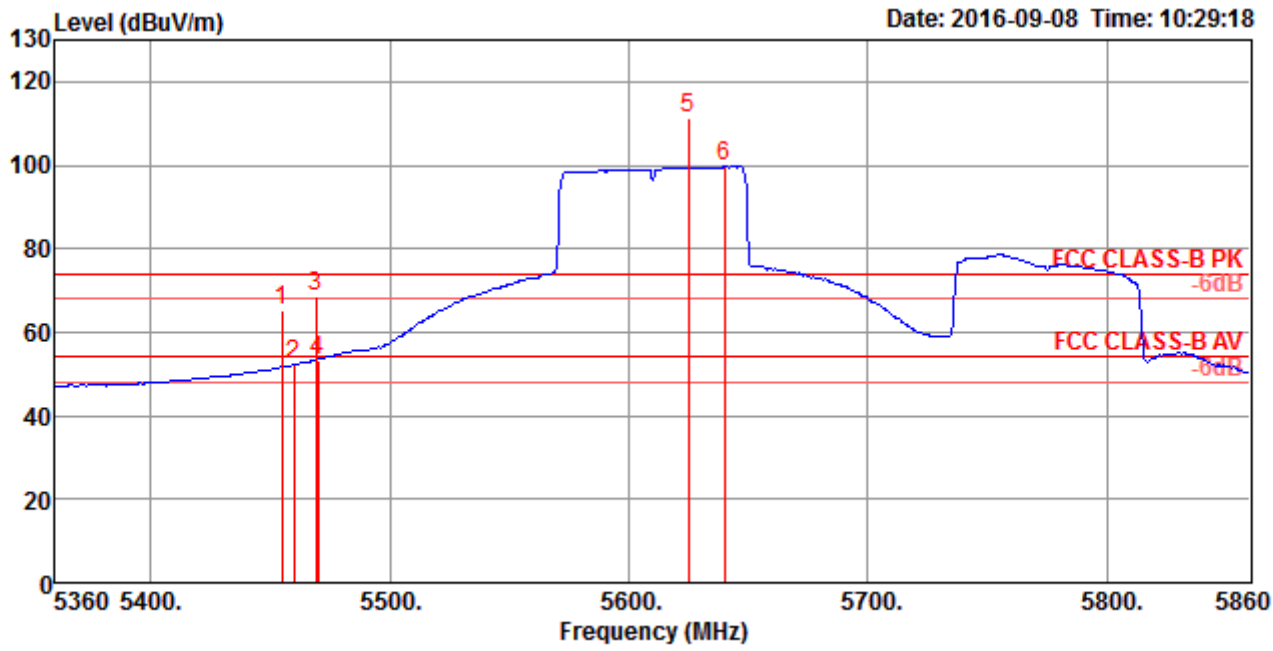


| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5753.76 | 105.88 | | | 96.39 | 8.51 | 32.10 | 31.12 | 320 | 39 Peak | VERTICAL |
| 2 | 5782.92 | 95.93 | | | 86.42 | 8.50 | 32.14 | 31.13 | 320 | 39 Average | VERTICAL |
| 3 | 5926.56 | 65.00 | 68.20 | -3.20 | 55.15 | 8.72 | 32.32 | 31.19 | 320 | 39 Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5775 MHz.

| | |
|----------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 10 / CH 122+155 / Chain 1 + Chain 3 |
|----------------|---|

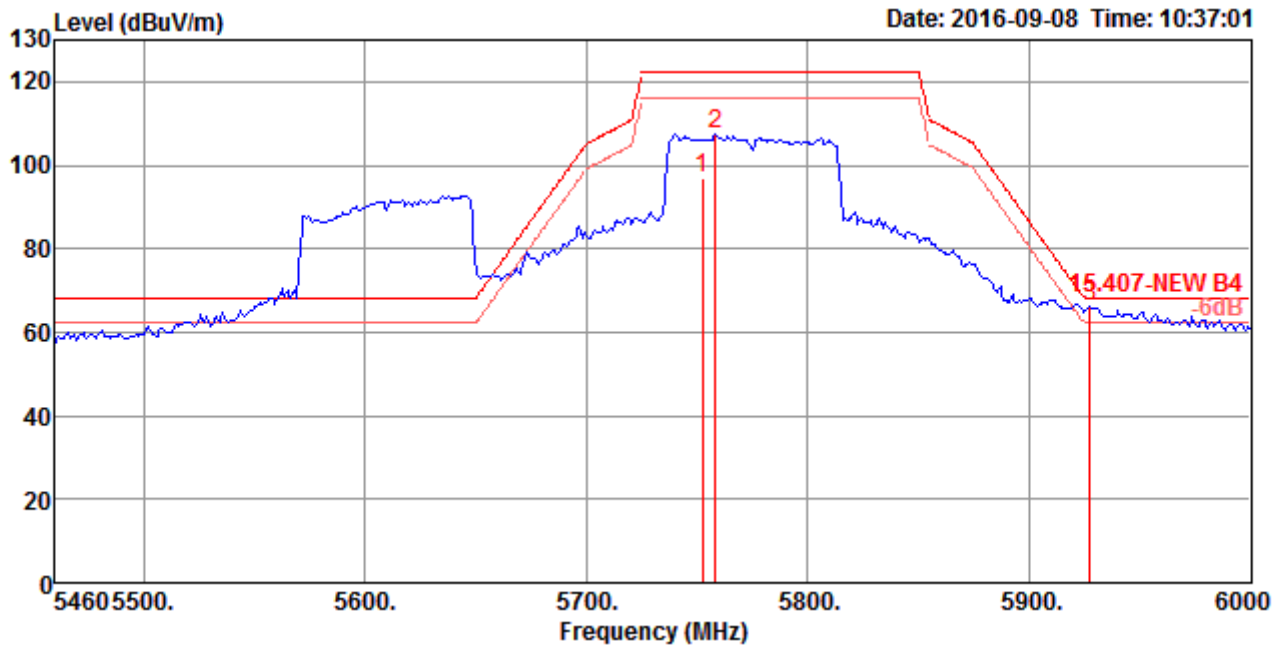
Channel 122



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5455.00 | 65.39 | 74.00 | -8.61 | 56.24 | 8.41 | 31.76 | 31.02 | 291 | 314 | Peak | HORIZONTAL |
| 2 | 5460.00 | 52.08 | 54.00 | -1.92 | 42.93 | 8.41 | 31.76 | 31.02 | 291 | 314 | Average | HORIZONTAL |
| 3 | 5469.00 | 68.44 | 74.00 | -5.56 | 59.25 | 8.43 | 31.78 | 31.02 | 291 | 314 | Peak | HORIZONTAL |
| 4 | 5470.00 | 53.48 | 54.00 | -0.52 | 44.29 | 8.43 | 31.78 | 31.02 | 291 | 314 | Average | HORIZONTAL |
| 5 @ | 5625.00 | 111.28 | | | 101.75 | 8.64 | 31.96 | 31.07 | 291 | 314 | Peak | HORIZONTAL |
| 6 @ | 5640.00 | 99.65 | | | 90.15 | 8.62 | 31.96 | 31.08 | 291 | 314 | Average | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5610 MHz.

Channel 155



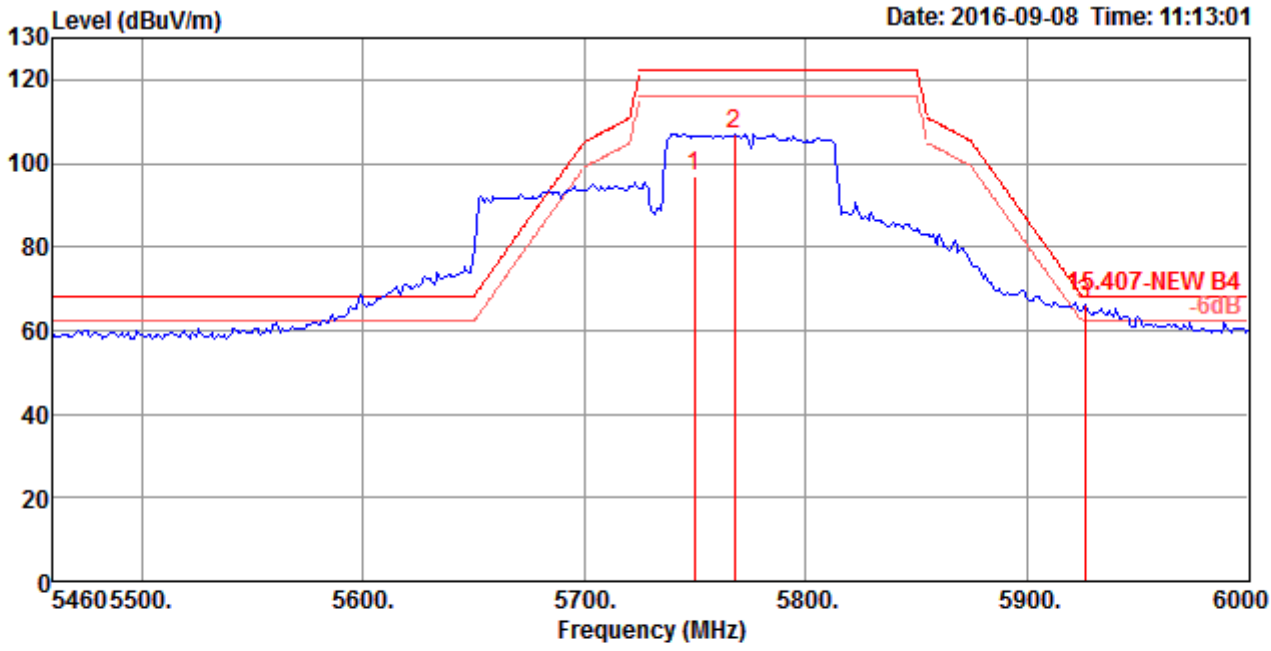
| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5752.60 | 97.07 | | | 87.58 | 8.51 | 32.10 | 31.12 | 252 | 61 Average | VERTICAL |
| 2 | 5758.20 | 107.47 | | | 97.96 | 8.51 | 32.12 | 31.12 | 252 | 61 Peak | VERTICAL |
| 3 | 5927.60 | 65.98 | 68.20 | -2.22 | 56.13 | 8.72 | 32.32 | 31.19 | 252 | 61 Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5775 MHz.



| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 11 / CH 138+155 / Chain 1 + Chain 3 |
|-----------------------|---|

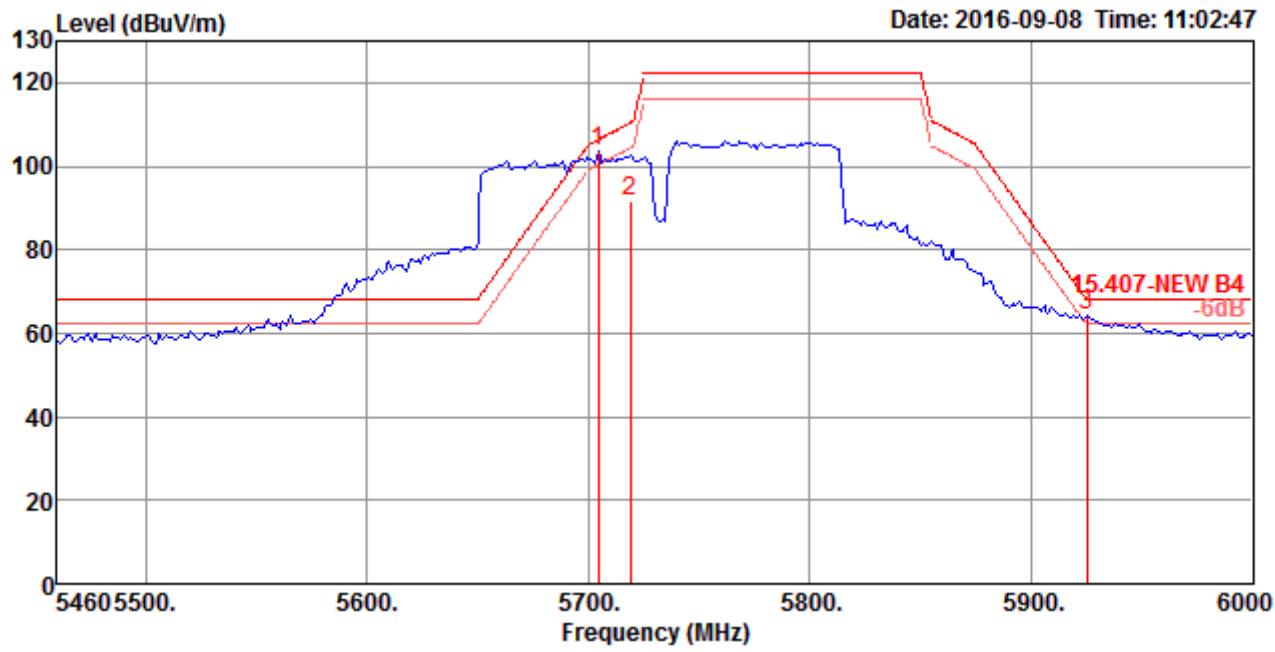
Channel 138 (UNII 2C)



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|---------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5749.80 | 97.06 | | | 87.55 | 8.53 | 32.10 | 31.12 | 266 | 59 Peak | VERTICAL |
| 2 | 5768.00 | 106.94 | | | 97.44 | 8.51 | 32.12 | 31.13 | 266 | 59 Peak | VERTICAL |
| 3 | 5926.20 | 66.07 | 68.20 | -2.13 | 56.22 | 8.72 | 32.32 | 31.19 | 266 | 59 Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

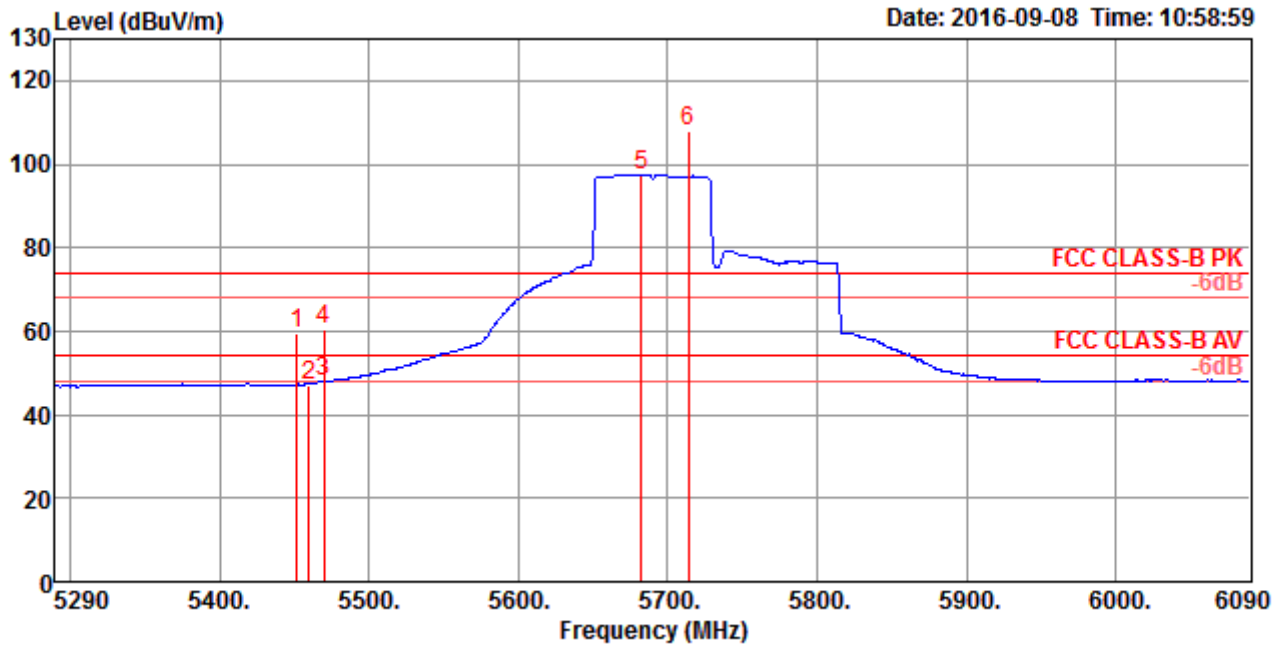
Channel 138 (UNII 3)



| | Freq | Level | Limit | Over | Read | Cable | Antenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|-------|---------|--------|-------|-------|--------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5704.40 | 103.84 | | | 94.34 | 8.56 | 32.04 | 31.10 | 294 | 21 | Peak | VERTICAL |
| 2 | 5718.80 | 91.77 | | | 82.28 | 8.54 | 32.06 | 31.11 | 294 | 21 | Peak | VERTICAL |
| 3 | 5925.20 | 64.19 | 68.20 | -4.01 | 54.34 | 8.72 | 32.32 | 31.19 | 294 | 21 | Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

Channel 155

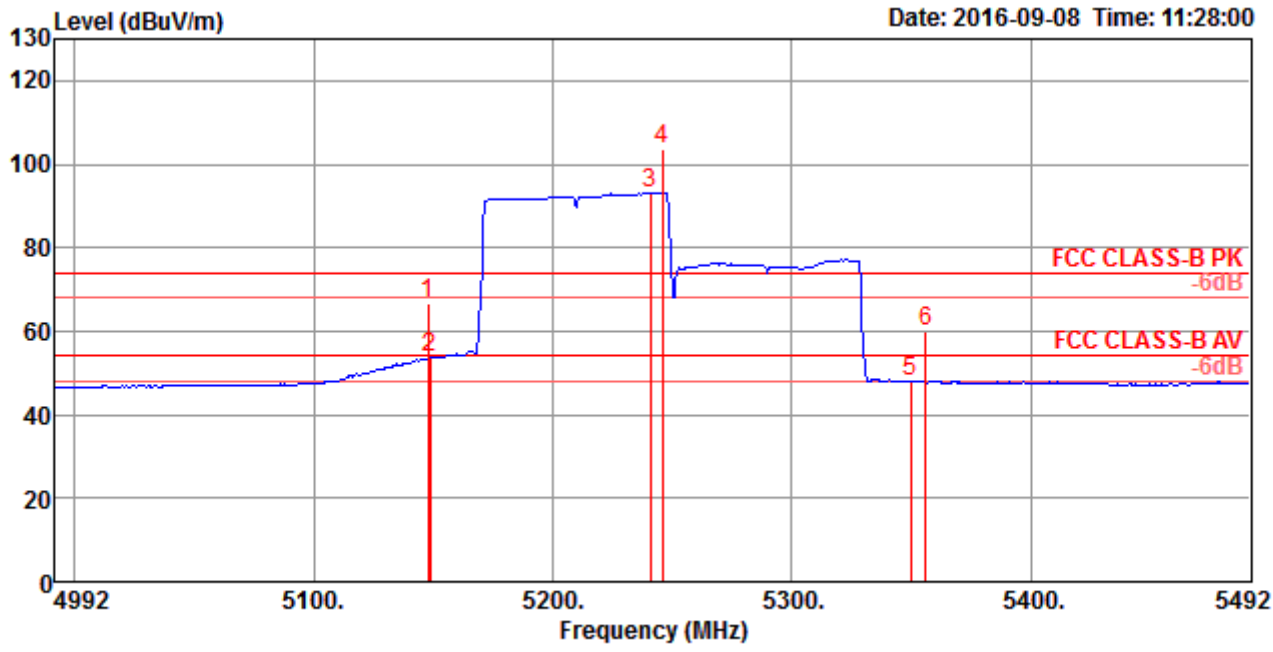


| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5452.00 | 59.49 | 74.00 | -14.51 | 50.34 | 8.41 | 31.76 | 31.02 | 230 | 300 | Peak | HORIZONTAL |
| 2 | 5460.00 | 47.20 | 54.00 | -6.80 | 38.05 | 8.41 | 31.76 | 31.02 | 230 | 300 | Average | HORIZONTAL |
| 3 | 5470.00 | 47.90 | 54.00 | -6.10 | 38.71 | 8.43 | 31.78 | 31.02 | 230 | 300 | Average | HORIZONTAL |
| 4 | 5470.00 | 60.61 | 74.00 | -13.39 | 51.42 | 8.43 | 31.78 | 31.02 | 230 | 300 | Peak | HORIZONTAL |
| 5 @ | 5682.00 | 97.58 | | | 88.06 | 8.59 | 32.02 | 31.09 | 230 | 300 | Average | HORIZONTAL |
| 6 @ | 5714.00 | 107.87 | | | 98.36 | 8.56 | 32.06 | 31.11 | 230 | 300 | Peak | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5775 MHz.

| | |
|-----------------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 12 / CH 42+58 / Chain 1 + Chain 3 |
|-----------------------|---|

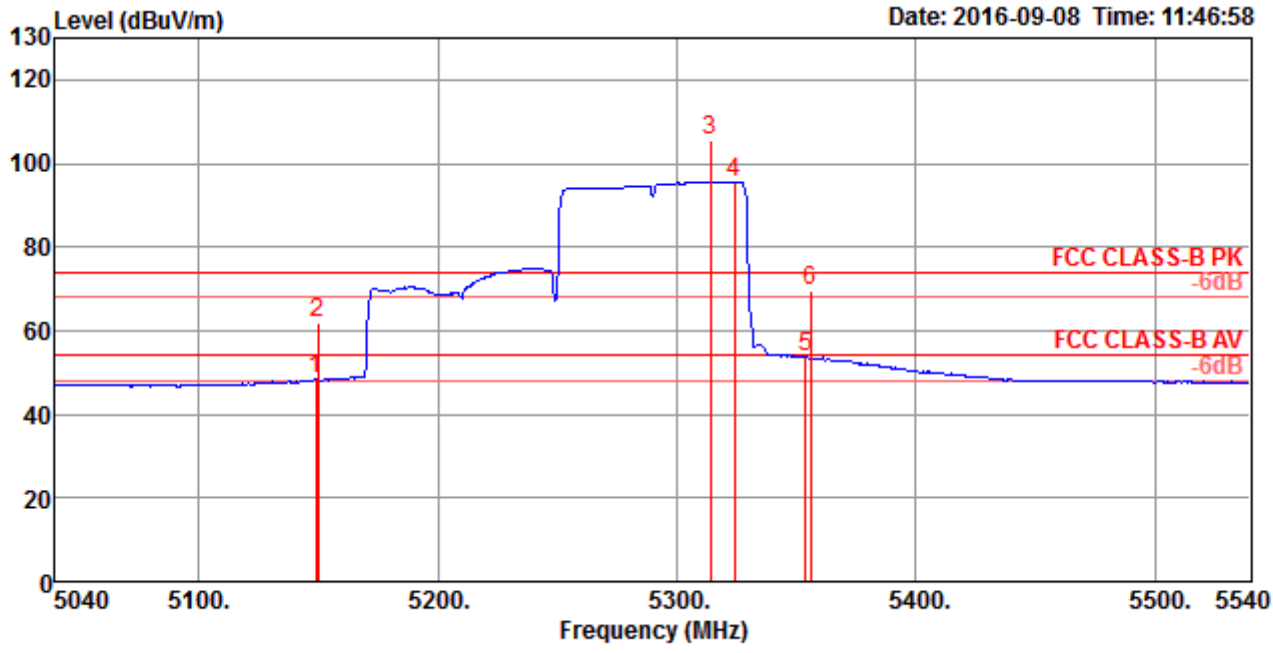
Channel 42



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|-------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5148.00 | 66.67 | 74.00 | -7.33 | 58.15 | 8.05 | 31.52 | 31.05 | 233 | 281 Peak | HORIZONTAL |
| 2 | 5149.00 | 53.65 | 54.00 | -0.35 | 45.13 | 8.05 | 31.52 | 31.05 | 233 | 281 Average | HORIZONTAL |
| 3 @ | 5241.00 | 93.21 | | | 84.56 | 8.11 | 31.59 | 31.05 | 233 | 281 Average | HORIZONTAL |
| 4 @ | 5246.00 | 103.79 | | | 95.11 | 8.13 | 31.59 | 31.04 | 233 | 281 Peak | HORIZONTAL |
| 5 | 5350.00 | 47.79 | 54.00 | -6.21 | 38.88 | 8.26 | 31.68 | 31.03 | 233 | 281 Average | HORIZONTAL |
| 6 | 5356.00 | 60.11 | 74.00 | -13.89 | 51.19 | 8.26 | 31.69 | 31.03 | 233 | 281 Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 58



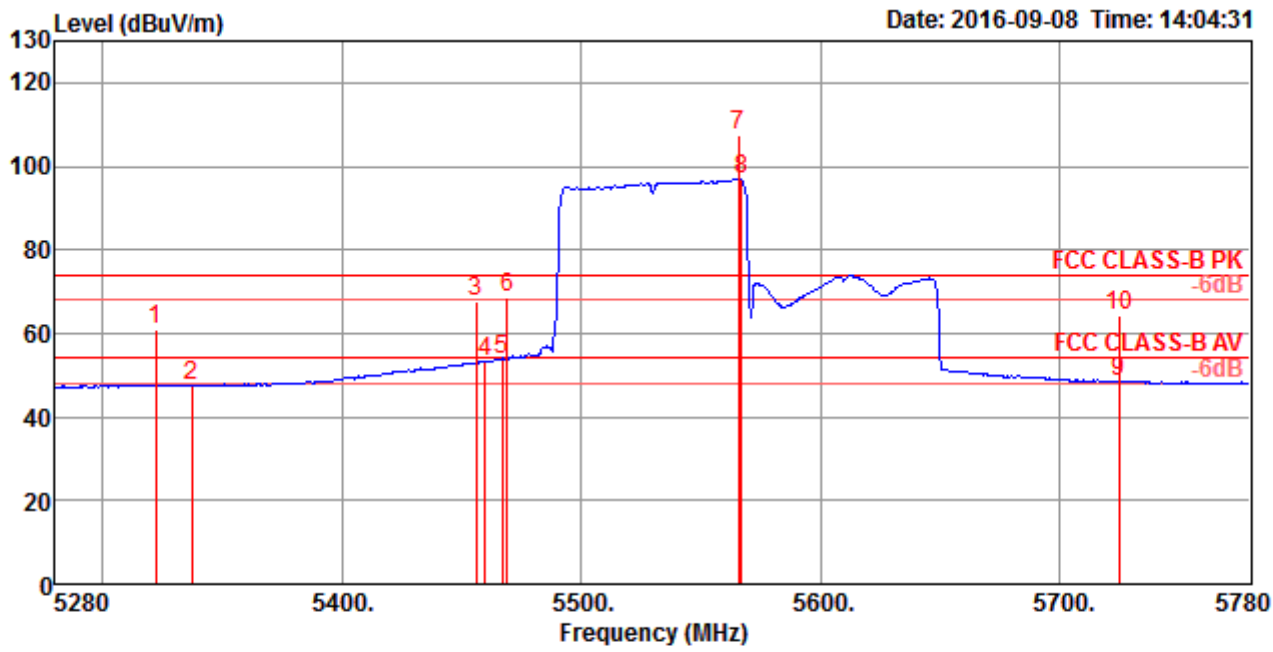
| | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | | | |
|------|---------|--------|-------|--------------|--------|--------|-------|--------|-----------|----|---------|----------|
| Freq | Line | Limit | Level | Loss | Factor | Factor | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dB | dB/m | dB | cm | deg | | | | |
| 1 | 5149.00 | 48.36 | 54.00 | -5.64 | 39.84 | 8.05 | 31.52 | 31.05 | 271 | 99 | Average | VERTICAL |
| 2 | 5150.00 | 61.81 | 74.00 | -12.19 | 53.29 | 8.05 | 31.52 | 31.05 | 271 | 99 | Peak | VERTICAL |
| 3 @ | 5314.00 | 105.74 | | | 96.91 | 8.22 | 31.65 | 31.04 | 271 | 99 | Peak | VERTICAL |
| 4 @ | 5324.00 | 95.56 | | | 86.71 | 8.22 | 31.67 | 31.04 | 271 | 99 | Average | VERTICAL |
| 5 | 5354.00 | 53.74 | 54.00 | -0.26 | 44.83 | 8.26 | 31.68 | 31.03 | 271 | 99 | Average | VERTICAL |
| 6 | 5356.00 | 69.79 | 74.00 | -4.21 | 60.87 | 8.26 | 31.69 | 31.03 | 271 | 99 | Peak | VERTICAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.



| | |
|----------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 13 / CH 106+122 / Chain 1 + Chain 3 |
|----------------|---|

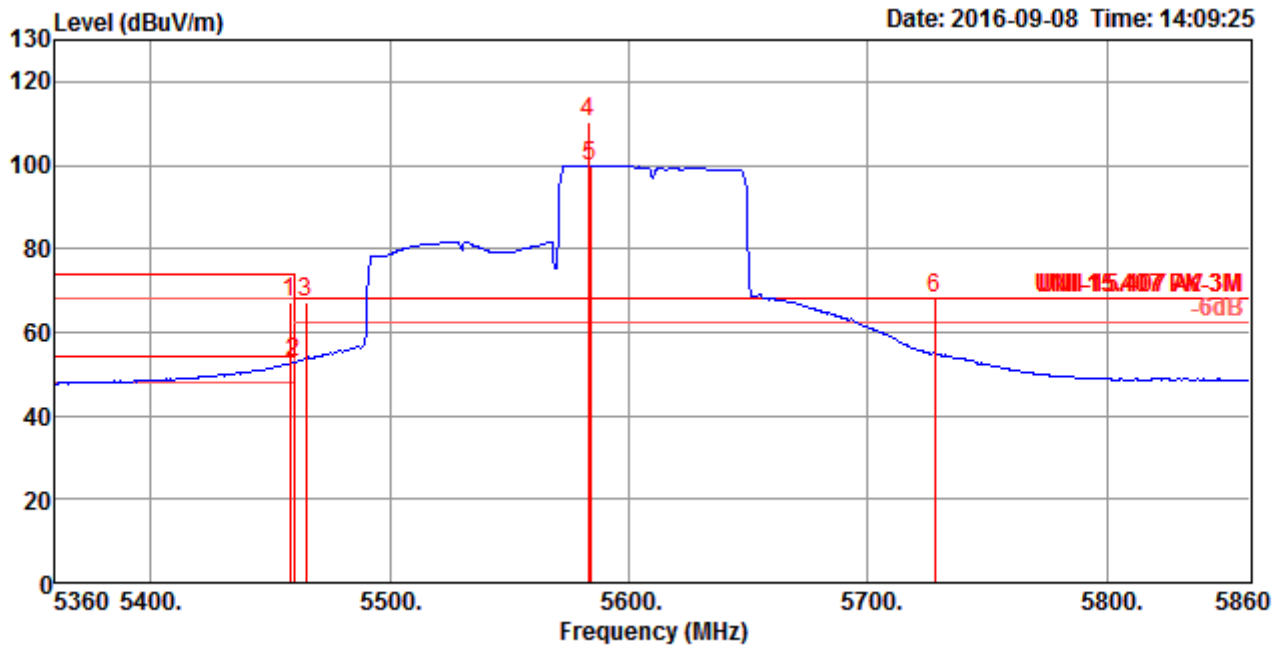
Channel 106



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5322.00 | 60.93 | 74.00 | -13.07 | 52.10 | 8.22 | 31.65 | 31.04 | 292 | 315 | Peak | HORIZONTAL |
| 2 | 5337.00 | 47.65 | 54.00 | -6.35 | 38.78 | 8.24 | 31.67 | 31.04 | 292 | 315 | Average | HORIZONTAL |
| 3 | 5456.00 | 67.57 | 74.00 | -6.43 | 58.42 | 8.41 | 31.76 | 31.02 | 292 | 315 | Peak | HORIZONTAL |
| 4 | 5460.00 | 53.45 | 54.00 | -0.55 | 44.30 | 8.41 | 31.76 | 31.02 | 292 | 315 | Average | HORIZONTAL |
| 5 | 5467.00 | 53.87 | 54.00 | -0.13 | 44.68 | 8.43 | 31.78 | 31.02 | 292 | 315 | Average | HORIZONTAL |
| 6 | 5469.00 | 68.43 | 74.00 | -5.57 | 59.24 | 8.43 | 31.78 | 31.02 | 292 | 315 | Peak | HORIZONTAL |
| 7 @ | 5566.00 | 107.37 | | | 97.94 | 8.60 | 31.88 | 31.05 | 292 | 315 | Peak | HORIZONTAL |
| 8 @ | 5567.00 | 96.84 | | | 87.41 | 8.60 | 31.88 | 31.05 | 292 | 315 | Average | HORIZONTAL |
| 9 | 5725.00 | 48.36 | 54.00 | -5.64 | 38.85 | 8.54 | 32.08 | 31.11 | 292 | 315 | Average | HORIZONTAL |
| 10 | 5725.00 | 64.36 | 74.00 | -9.64 | 54.85 | 8.54 | 32.08 | 31.11 | 292 | 315 | Peak | HORIZONTAL |

Item 7, 8 are the fundamental frequency at 5530 MHz.

Channel 122

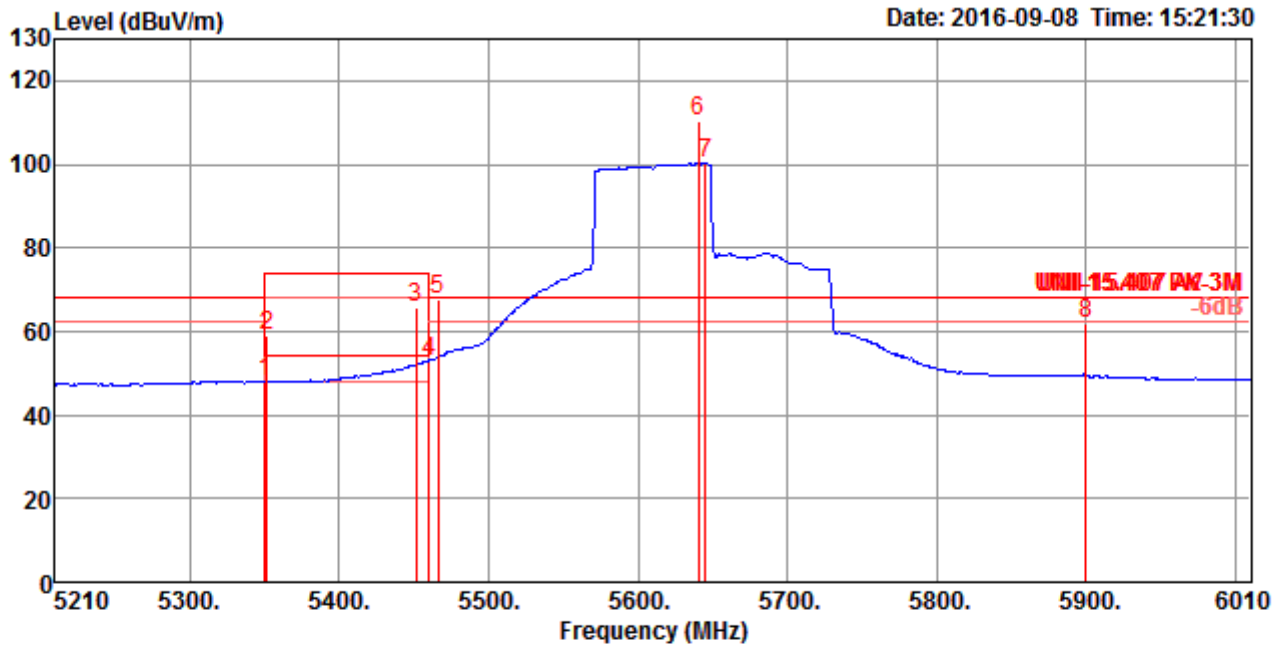


| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5458.00 | 67.12 | 74.00 | -6.88 | 57.97 | 8.41 | 31.76 | 31.02 | 262 | 104 | Peak | VERTICAL |
| 2 | 5460.00 | 53.00 | 54.00 | -1.00 | 43.85 | 8.41 | 31.76 | 31.02 | 262 | 104 | Average | VERTICAL |
| 3 | 5465.00 | 67.01 | 68.20 | -1.19 | 57.82 | 8.43 | 31.78 | 31.02 | 262 | 104 | Peak | VERTICAL |
| 4 @ | 5583.00 | 110.30 | | | 100.84 | 8.62 | 31.90 | 31.06 | 262 | 104 | Peak | VERTICAL |
| 5 @ | 5584.00 | 99.86 | | | 90.40 | 8.62 | 31.90 | 31.06 | 262 | 104 | Average | VERTICAL |
| 6 | 5728.00 | 68.02 | 68.20 | -0.18 | 58.52 | 8.54 | 32.08 | 31.12 | 262 | 104 | Peak | VERTICAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.

| | |
|----------------|---|
| Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80 Type 14 / CH 122+138 / Chain 1 + Chain 3 |
|----------------|---|

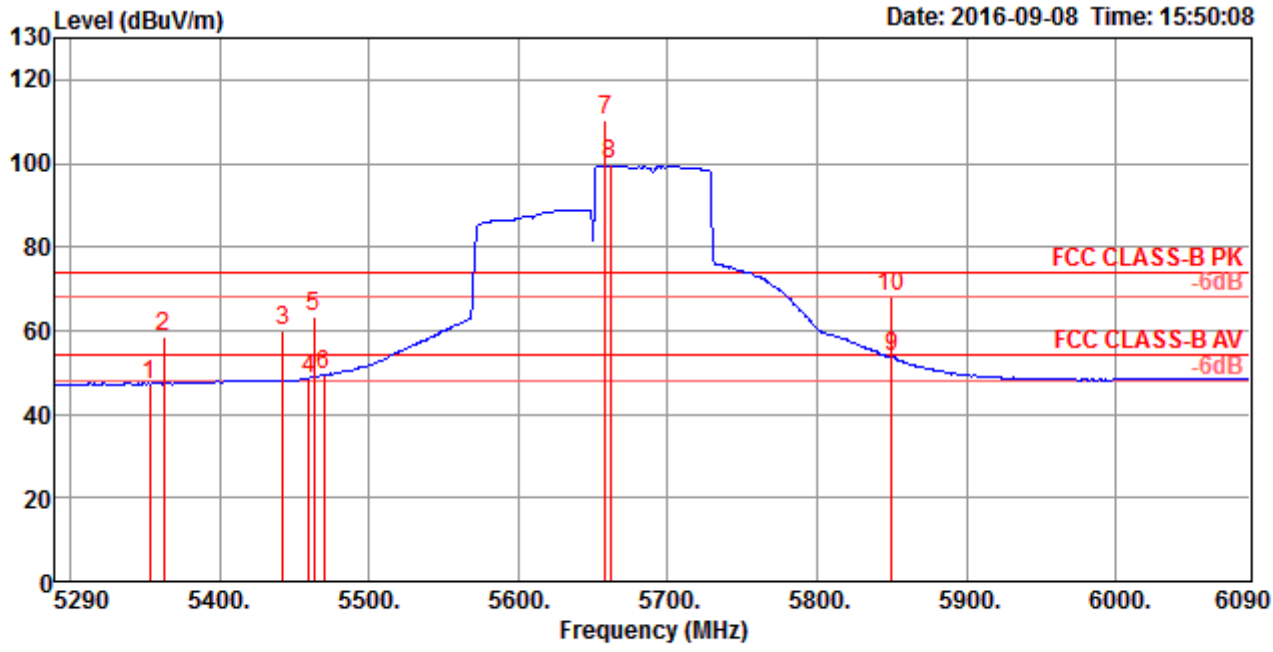
Channel 122



| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|-----|---------|--------|--------|--------|--------|--------------|--------|-------|-------|--------|-----------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5350.00 | 47.81 | 54.00 | -6.19 | 38.90 | 8.26 | 31.68 | 31.03 | 290 | 313 | Average | HORIZONTAL |
| 2 | 5351.60 | 59.23 | 74.00 | -14.77 | 50.32 | 8.26 | 31.68 | 31.03 | 290 | 313 | Peak | HORIZONTAL |
| 3 | 5451.60 | 65.59 | 74.00 | -8.41 | 56.45 | 8.41 | 31.76 | 31.03 | 290 | 313 | Peak | HORIZONTAL |
| 4 | 5460.00 | 52.84 | 54.00 | -1.16 | 43.69 | 8.41 | 31.76 | 31.02 | 290 | 313 | Average | HORIZONTAL |
| 5 | 5466.00 | 67.43 | 68.20 | -0.77 | 58.24 | 8.43 | 31.78 | 31.02 | 290 | 313 | Peak | HORIZONTAL |
| 6 @ | 5640.40 | 110.46 | | | 100.94 | 8.62 | 31.98 | 31.08 | 290 | 313 | Peak | HORIZONTAL |
| 7 @ | 5645.20 | 100.21 | | | 90.69 | 8.62 | 31.98 | 31.08 | 290 | 313 | Average | HORIZONTAL |
| 8 | 5899.60 | 62.11 | 68.20 | -6.09 | 52.35 | 8.66 | 32.28 | 31.18 | 290 | 313 | Peak | HORIZONTAL |

Item 6, 7 are the fundamental frequency at 5610 MHz.

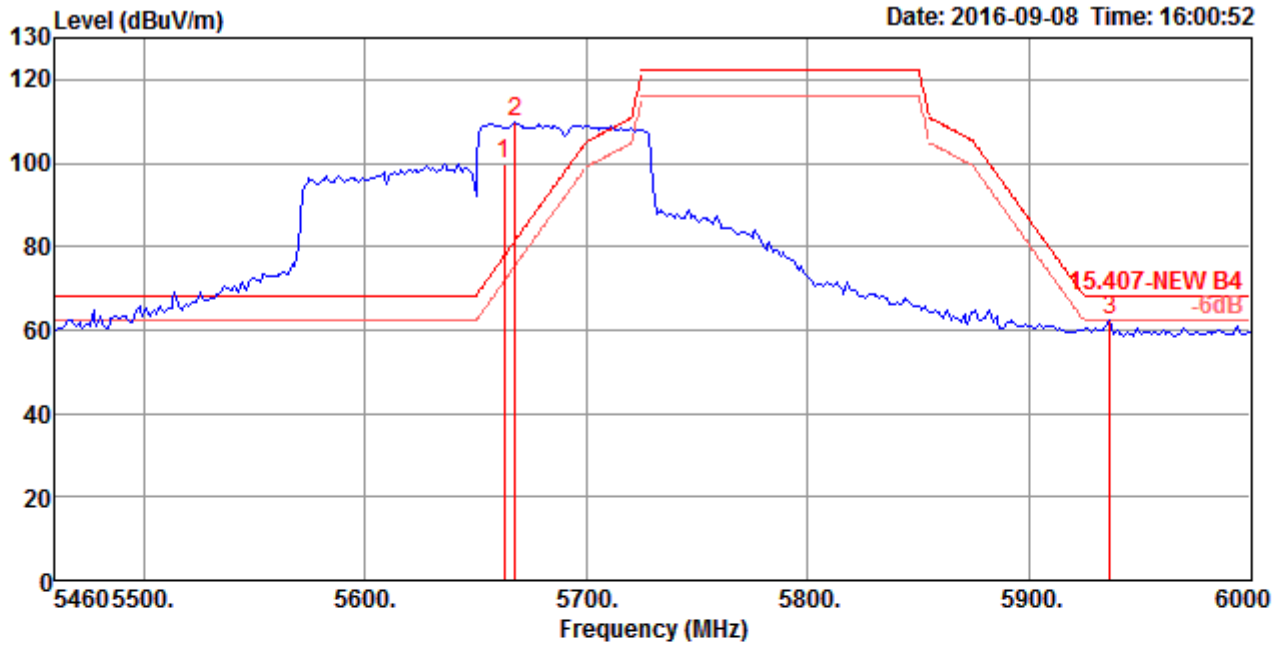
Channel 138 (UNII 2C)



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5353.20 | 47.09 | 54.00 | -6.91 | 38.18 | 8.26 | 31.68 | 31.03 | 269 | 36 Average | VERTICAL |
| 2 | 5362.80 | 58.65 | 74.00 | -15.35 | 49.71 | 8.28 | 31.69 | 31.03 | 269 | 36 Peak | VERTICAL |
| 3 | 5442.40 | 59.94 | 74.00 | -14.06 | 50.84 | 8.38 | 31.75 | 31.03 | 269 | 36 Peak | VERTICAL |
| 4 | 5460.00 | 48.63 | 54.00 | -5.37 | 39.48 | 8.41 | 31.76 | 31.02 | 269 | 36 Average | VERTICAL |
| 5 | 5462.80 | 63.22 | 74.00 | -10.78 | 54.05 | 8.43 | 31.76 | 31.02 | 269 | 36 Peak | VERTICAL |
| 6 | 5470.00 | 49.23 | 54.00 | -4.77 | 40.04 | 8.43 | 31.78 | 31.02 | 269 | 36 Average | VERTICAL |
| 7 @ | 5658.00 | 110.44 | | | 100.92 | 8.61 | 32.00 | 31.09 | 269 | 36 Peak | VERTICAL |
| 8 @ | 5661.20 | 99.97 | | | 90.45 | 8.61 | 32.00 | 31.09 | 269 | 36 Average | VERTICAL |
| 9 | 5850.00 | 53.62 | 54.00 | -0.38 | 43.99 | 8.57 | 32.22 | 31.16 | 269 | 36 Average | VERTICAL |
| 10 | 5850.00 | 68.00 | 74.00 | -6.00 | 58.37 | 8.57 | 32.22 | 31.16 | 269 | 36 Peak | VERTICAL |

Item 7, 8 are the fundamental frequency at 5690 MHz.

Channel 138 (UNII 3)



| | Freq | Level | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|-----|---------|--------|------------|------------|------------|-------------------|---------------|-------|-------|------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 @ | 5662.80 | 99.79 | | | 90.27 | 8.61 | 32.00 | 31.09 | 269 | 36 Average | VERTICAL |
| 2 @ | 5667.60 | 109.67 | | | 100.17 | 8.59 | 32.00 | 31.09 | 269 | 36 Peak | VERTICAL |
| 3 | 5936.40 | 62.31 | 68.20 | -5.89 | 52.46 | 8.72 | 32.32 | 31.19 | 269 | 36 Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.