



TEST REPORT

Report Number : 11360398-E4V3

Applicant : JUNE LIFE INC.
1805 BROADWAY
SAN FRANCISCO, CA 94109, U.S.A.

Model : JCP01

FCC ID : 2AJGA-CP16A

IC ID : 21848-CP16A

EUT Description : INTELLIGENT OVEN Wi-Fi / BLUETOOTH

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E (EXCEPT DFS)
INDUSTRY CANADA RSS-247 ISSUE 1 (EXCEPT DFS)
INDUSTRY CANADA RSS-GEN Issue 4

Date of Issue:
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Prepared by:

UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888

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| V1 | 10/13/16 | Initial Issue | D. Corona |
| V2 | 10/28/16 | Updated Section 5.5,7.8,7.9 &7.10 | D. Corona |
| V3 | 11/07/16 | Updated Section 5.3 | D. Corona |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: JUNE LIFE INC.
EUT DESCRIPTION: INTELLIGENT OVEN Wi-Fi / BLUETOOTH
MODEL: JCP01
SERIAL NUMBER: KQ263C0006
DATE TESTED: JULY 28 – SEPTEMBER 7, 2016

| APPLICABLE STANDARDS | |
|--|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart E (EXCEPT DFS) | Pass |
| INDUSTRY CANADA RSS-247 Issue 1 (EXCEPT DFS) | Pass |
| INDUSTRY CANADA RSS-GEN Issue 4 | Pass |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:



DAN CORONIA
CONSUMER TECHNOLOGY DIVISION
WISE PROJECT LEAD
UL Verification Services Inc.

Prepared By:



GLENN ESCANO
CONSUMER TECHNOLOGY DIVISION
WISE LAB ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 789033 D02 v01r03, KDB 662911, ANSI C63.10-2013, RSS-GEN Issue 4, and RSS-247 Issue 1.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 47173 Benicia Street | 47266 Benicia Street |
|--|---|
| <input type="checkbox"/> Chamber A(IC: 2324B-1) | <input type="checkbox"/> Chamber D(IC: 2324B-4) |
| <input checked="" type="checkbox"/> Chamber B(IC: 2324B-2) | <input type="checkbox"/> Chamber E(IC: 2324B-5) |
| <input type="checkbox"/> Chamber C(IC: 2324B-3) | <input type="checkbox"/> Chamber F(IC: 2324B-6) |
| | <input type="checkbox"/> Chamber G(IC: 2324B-7) |
| | <input type="checkbox"/> Chamber H(IC: 2324B-8) |

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|---|-------------|
| Conducted Disturbance, 0.15 to 30 MHz | 3.84 dB |
| Radiated Disturbance, 9KHz to 30 MHz | 2.14 dB |
| Radiated Disturbance, 30 to 1000 MHz | 4.98 dB |
| Radiated Disturbance,1000 to 6000 MHz | 3.86 dB |
| Radiated Disturbance,6000 to 18000 MHz | 4.23 dB |
| Radiated Disturbance,18000 to 26000 MHz | 5.30 dB |
| Radiated Disturbance,26000 to 40000 MHz | 5.23 dB |

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an Intelligent OVEN Wi-Fi / Bluetooth.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

| Frequency Range (MHz) | Mode | Output Power (dBm) | Output Power (mW) |
|-----------------------|-------------------|--------------------|-------------------|
| 5180 - 5240 | 802.11a SISO | 16.00 | 39.81 |
| 5180 - 5240 | 802.11n HT20 MIMO | 16.41 | 43.75 |
| 5190 - 5230 | 802.11n HT40 MIMO | 15.97 | 39.54 |
| 5260 - 5320 | 802.11a SISO | 19.20 | 83.18 |
| 5260 - 5320 | 802.11n HT20 MIMO | 18.78 | 75.51 |
| 5270 - 5310 | 802.11n HT40 MIMO | 19.83 | 96.16 |
| 5500 - 5700 | 802.11a SISO | 17.77 | 59.84 |
| 5500 - 5700 | 802.11n HT20 MIMO | 21.01 | 126.18 |
| 5510 - 5670 | 802.11n HT40 MIMO | 17.13 | 51.64 |
| 5745-5825 | 802.11a SISO | 16.43 | 43.95 |
| 5745-5825 | 802.11n HT20 MIMO | 20.01 | 100.23 |
| 5755-5795 | 802.11n HT40 MIMO | 17.06 | 50.82 |

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna, with a maximum gain as below:

| Frequency (MHz) | Max. Peak Gain (dBi) (Main) | Max. Peak Gain (dBi) (Aux) |
|-----------------|-----------------------------|----------------------------|
| 5150-5350 | 3.0 | 3.0 |
| 5470-5850 | 4.0 | 4.0 |

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Broadcom, rev. 6.37 RC32.0.

The EUT driver software installed during testing was Broadcom, rev. 6.37.32.0.

The test utility software used during testing was Broadcom, rev. 6.10.197.111.1 (r446629 WLTEST).

5.5. WORST-CASE CONFIGURATION AND MODE

Above 1GHz Low/Middle/High channels were tested for radiated emissions with the EUT set to transmit at the channels with highest output power as worst-case scenario.

The EUT can only be setup in desktop orientation; therefore, all radiated testing was performed with the EUT in desktop orientation.

Radiated emission below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

SISO mode was performed at chain 0.

MIMO mode was performed at chain 0 and 1.

Worst-case data rates as provided by the client were:

802.11a mode: MCS0

802.11n HT20mode: MCS8

802.11n HT40mode: MCS8

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Support Equipment List | | | | |
|------------------------|--------------|-------------|---------------|------------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| Laptop | Lenovo | T450 | PC-04AVGP | PD97265NGU |
| AC Adapter | Lenovo | ADLX65NLC2A | PA-1650-71 | N/A |

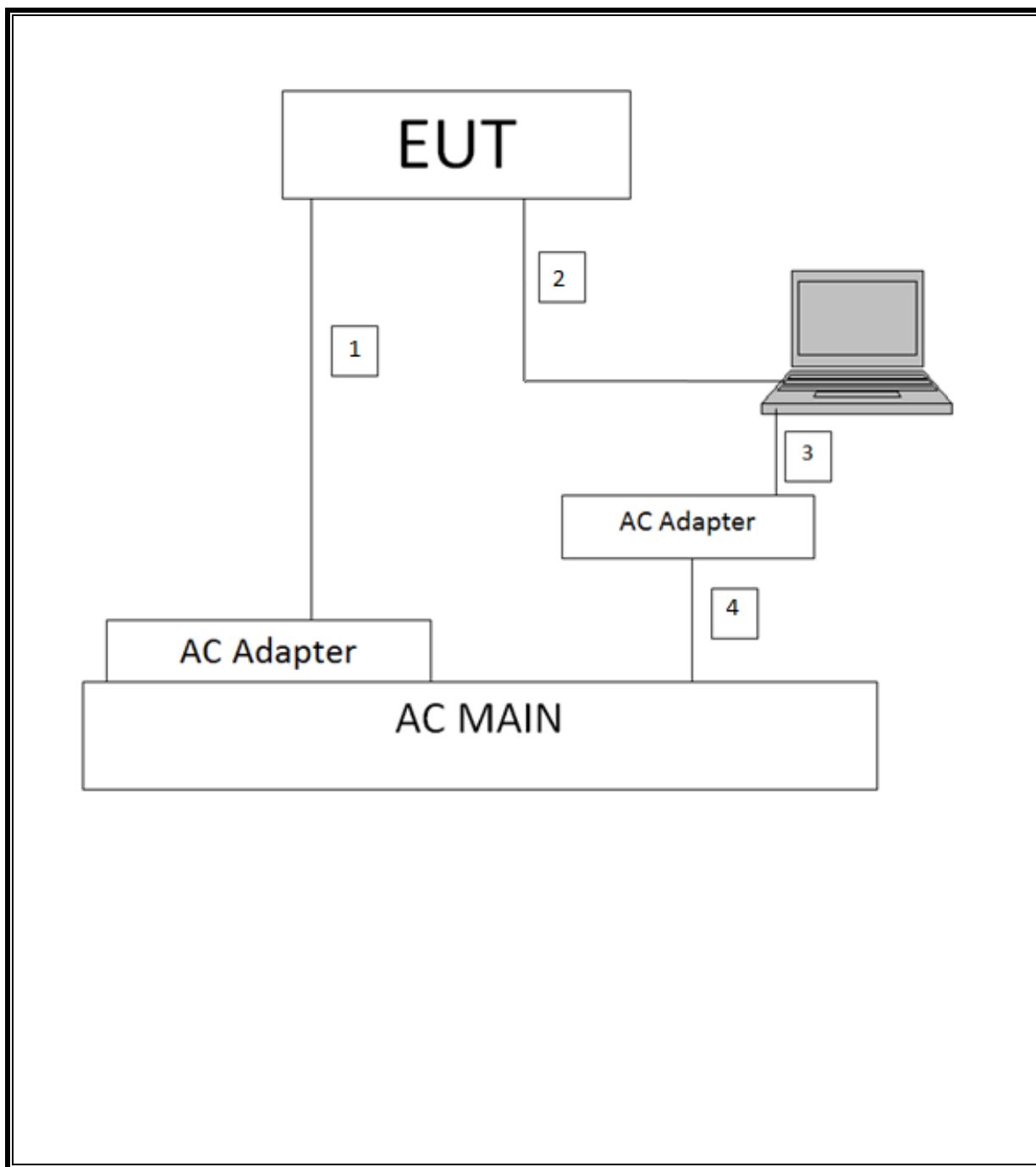
I/O CABLES

| I/O Cable List | | | | | | |
|----------------|----------|----------------------|----------------|------------|------------------|---------------------------|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | DC Power | 1 | DC | unshielded | 1 | N/A |
| 2 | USB port | 1 | Micro-USB | unshielded | 3 | Ferrite at Micro-USB side |
| 3 | DC | 1 | 20V DC | Unshielded | 1.5 | |
| 4 | AC | 1 | US115V | Unshielded | 1 | |

TEST SETUP

The EUT is a stand-alone unit, and the radio is exercised by software, Broadcom rev 6.10.197.111.1 (r446629 WLTEST) via USB cable.

SETUP DIAGRAM FOR TESTS



5.7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment List | | | | | | |
|--|-----------------|--------------|--------|----------|----------|--|
| Description | Manufacturer | Model | T No. | Cal Date | Cal Due | |
| Amplifier, 1 - 18GHz | Miteq | AFS42 | 493 | 03/09/16 | 03/09/17 | |
| Amplifier, 1 - 26.5GHz, 23.5dB | Agilent | 8449B | 404 | 07/05/16 | 07/05/17 | |
| Amplifier, 26 - 40GHz | Miteq | NSP 4000 SP2 | 88 | 04/07/16 | 04/07/17 | |
| Amplifier, 10KHz to 1GHz, 32dB | HP | 8447D | 10 | 02/01/16 | 02/01/17 | |
| Antenna, Broadband Hybrid 30MHz to 2000MHz | Sunol Science | JB1 | 130 | 09/23/15 | 09/23/16 | |
| Antenna, Horn 1-18GHz | ETS-Lindgren | 3117 | 345 | 03/07/16 | 03/07/17 | |
| Antenna, Horn 18-26.5GHz | Seavey Division | MWH-1826/B | 449 | 05/26/16 | 05/26/17 | |
| Antenna, Horn26.5 - 40 GHz Horn Antenna | ARA | MWH-2640/B | 446 | 05/25/16 | 05/25/17 | |
| EMI Test Receiver 9Khz-7GHz | R& S | ESCI7 | 100935 | 09/10/15 | 09/10/16 | |
| LISN for Conducted Emissions | Fischer | 50/250-25-2 | 161124 | 09/16/15 | 09/16/16 | |
| Loop Antenna, 10Khz-30MHz | EMCO | 6502 | 35 | 03/24/16 | 03/24/17 | |
| Power Cable, Line Conducted Emissions | UL | PG1 | N/A | 07/28/16 | 07/28/17 | |
| Power Meter, P-series single channel | Keysight | N1911A | 1262 | 07/08/16 | 07/08/17 | |
| Power Sensor, P - series, 50MHz to 18GHz, Wideband | Agilent | N1921A | 750 | 09/16/25 | 09/16/16 | |
| PSA Spectrum Analyzer 40GHz | Agilent | E4446A | 146 | 07/13/16 | 07/13/17 | |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | Agilent | N9030A | 907 | 01/06/16 | 01/06/17 | |
| Filter, HPF 6 HPF | Micro-Tronics | HPS17542 | 483 | 03/09/16 | 03/09/17 | |
| Filter, HPF 3GHz | Micro-Tronics | HPM17543 | 485 | 03/09/16 | 03/09/17 | |

| Test Software List | | | |
|-----------------------|--------------|--------|--------------------------|
| Description | Manufacturer | Model | Version |
| Radiated Software | UL | UL EMC | Ver 9.5, Apr 26, 2016 |
| Conducted Software | UL | UL EMC | Ver 9.5, May 26, 2015 |
| Antenna Port Software | UL | UL RF | Ver 5.1.1, July 15, 2016 |

5.1. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v01r03, Section B.

6 dB Emission BW: KDB 789033 D02 v01r03, Section C.

26 dB Emission BW: KDB 789033 D02 v01r03, Section C.

99% Occupied BW: KDB 789033 D02 v01r03, Section D.

Conducted Output Power: KDB 789033 D02 v01r03, Section E.3.b (Method PM-G), and KDB 662911 D01 v02r01

Power Spectral Density: KDB 789033 D02 v01r03, Section F, and KDB 662911 D01 v02r01

Unwanted emissions in restricted bands: KDB 789033 D02 v01r03, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v01r03, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

6. SUMMARY TABLE

| FCC Part Section | RSS Section | Test Description | Test Limit | Test Condition | Test Result |
|-------------------------------|---------------|---|---|----------------|-------------|
| §15.407 (a) | RSS-247 | Occupied Band width (26dB) | N/A | Conducted | Pass |
| §15.407 | RSS-247 6.2.4 | 6dB Band width (5.8Ghz) | >500KHz | | Pass |
| §15.407 (a)(1) | RSS-247 6.2 | TX Cond. Power 5.15-5.25 GHz | <24dBm (FCC) / <23 dBm EIRP or <10+10Log(99% BW) EIRP (IC) | | Pass |
| §15.407 (a)(2) | RSS-247 6.2 | TX Cond. Power 5.25-5.35 & 5.47-5.725 GHz | <24dBm or <11+10log (OBW) (FCC) / <24 dBm or <11+10Log(99% BW) (IC) | | Pass |
| §15.407 (a)(3) | RSS-247 6.2.4 | TX Cond. Power 5.725-5.850 GHz | <30dBm | | Pass |
| §15.407 (a)(1) | RSS-247 6.2 | PSD (5.15-5.25 GHz) | <11dBm/MHz (FCC) <10 dBm/MHz EIRP (IC) | | Pass |
| §15.407 (a)(2) | RSS-247 6.2 | PSD (5.3,5.5GHz) | <11dBm/MHz | | Pass |
| §15.407 (a)(3) | RSS-247 6.2.4 | PSD (5.8GHz) | <30dBm per 500kHz | | Pass |
| §15.207 (a) §15.407(b) (6) | RSS-GEN 8.8 | AC Power Line conducted emissions | Section 10 | | Pass |
| §15.407 (b) & 15.209 | RSS-GEN 8.9/7 | Radiated Spurious Emission | <54dBuV/m | Radiated | Pass |

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

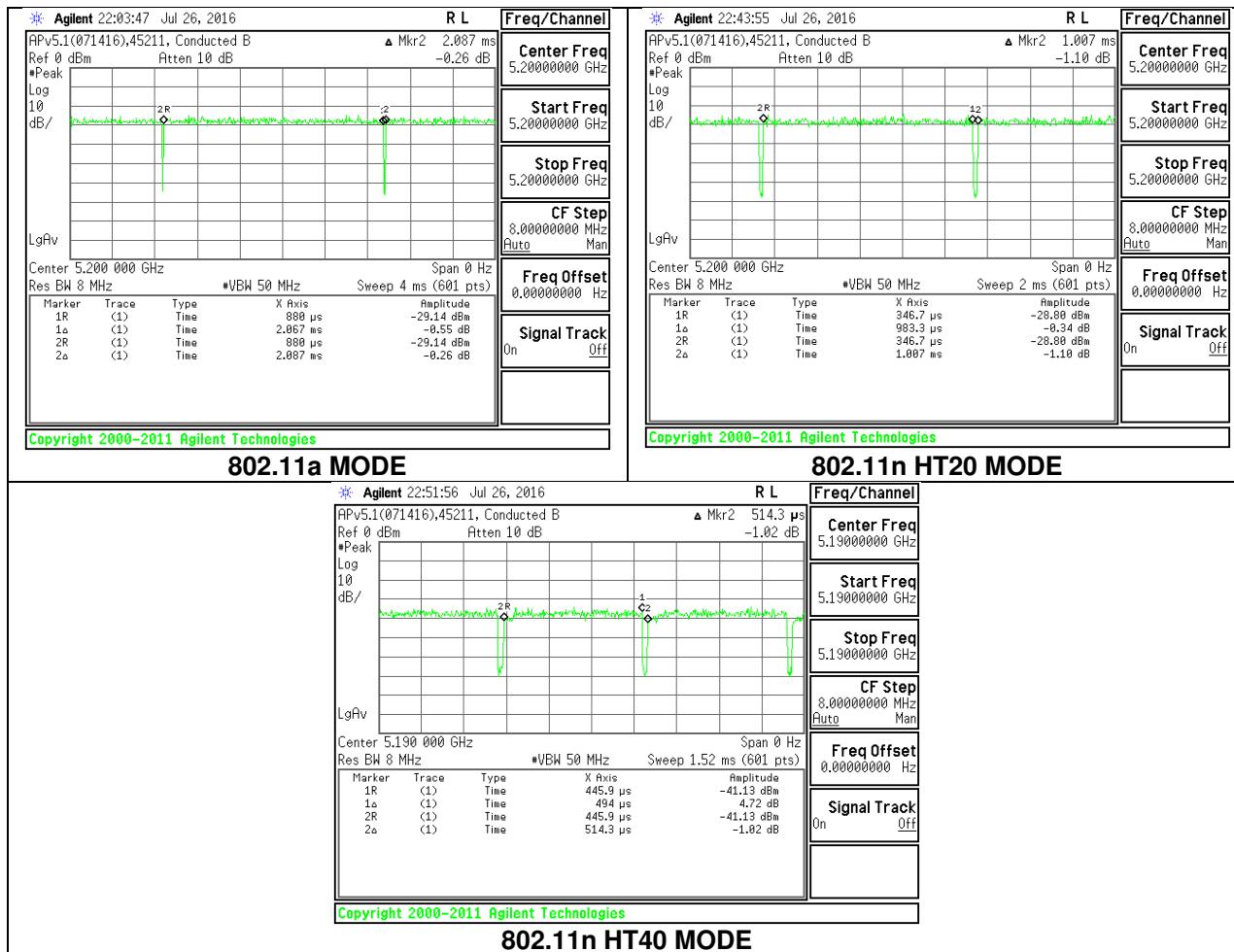
PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

| Mode | ON Time B (msec) | Period (msec) | Duty Cycle x (linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/B Minimum VBW (kHz) |
|------------------|------------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|
| 802.11a 1TX | 2.067 | 2.087 | 0.990 | 99.04% | 0.00 | 0.010 |
| 802.11n HT20 CDD | 0.983 | 1.007 | 0.976 | 97.65% | 0.10 | 1.017 |
| 802.11n HT40 CDD | 0.4940 | 0.5143 | 0.961 | 96.05% | 0.17 | 2.024 |

DUTY CYCLE PLOTS



7.2. 802.11a MODE IN THE 5.2 GHz BAND (Chain 0)

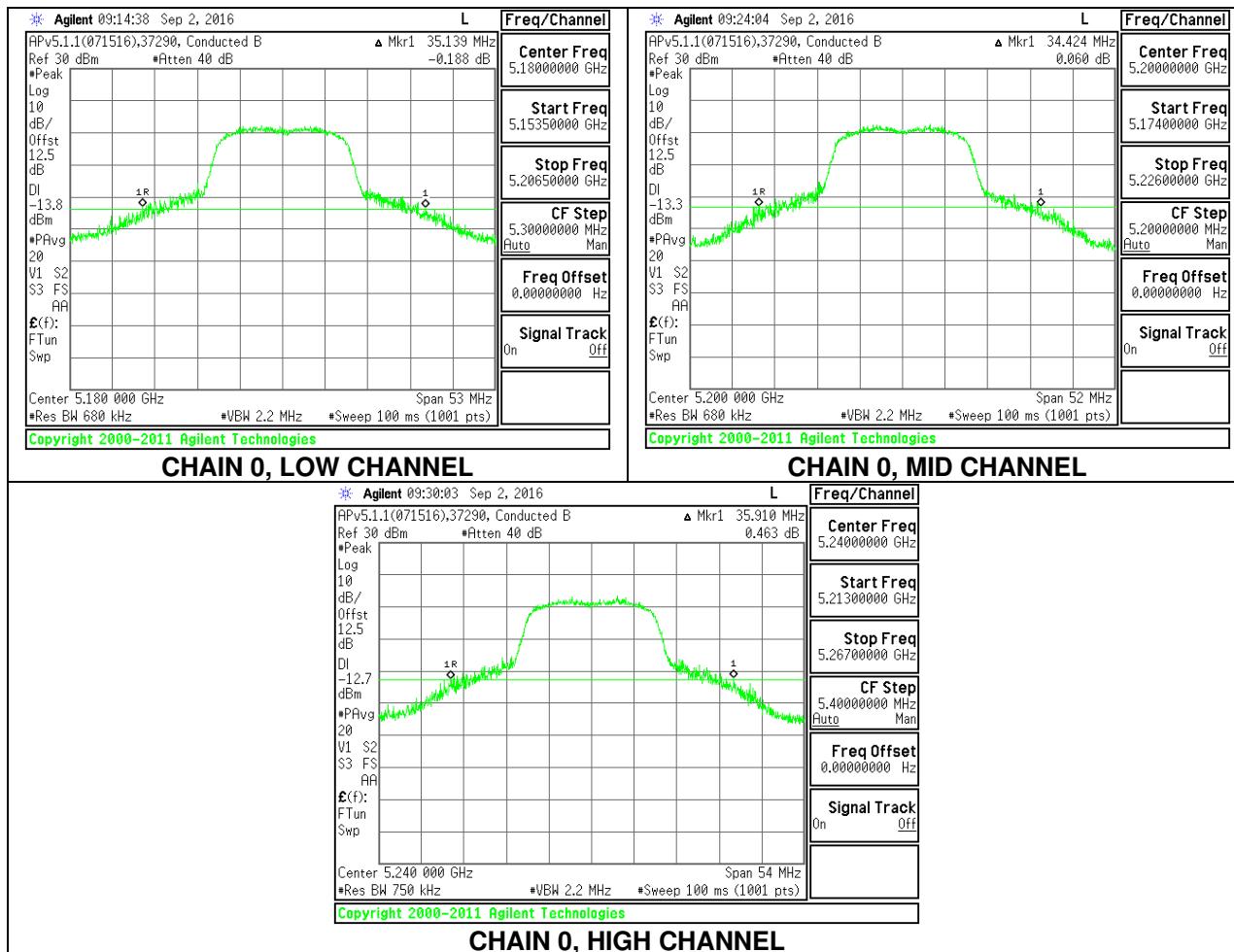
7.2.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB BW CHAIN 0 (MHz) |
|---------|-----------------|------------------------|
| Low | 5180 | 35.139 |
| Mid | 5200 | 34.424 |
| High | 5240 | 35.910 |



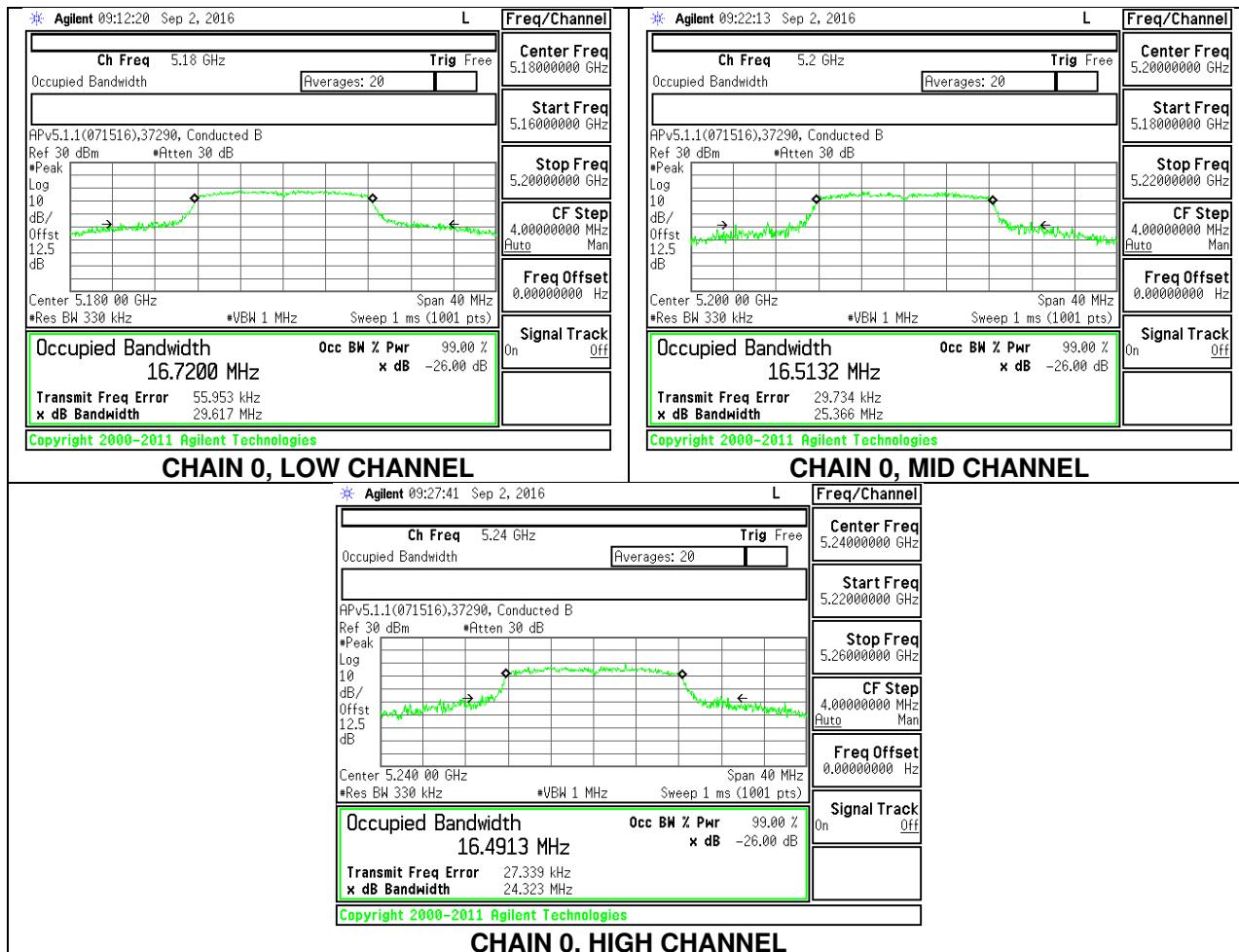
7.2.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) |
|---------|-----------------|----------------------|
| Low | 5180 | 16.7200 |
| Mid | 5200 | 16.5132 |
| High | 5240 | 16.4913 |



7.2.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.1(1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 99% BW (MHz) | Directional Gain (dBi) |
|---------|--------------------|---------------------------|------------------------------|
| Low | 5180 | 16.7200 | 3.00 |
| Mid | 5200 | 16.5132 | 3.00 |
| High | 5240 | 16.4913 | 3.00 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC EIRP Limit (dBm) | Max IC Power (dBm) | Power Limit (dBm) | FCC PSD Limit (dBm) | IC eirp PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|------------------------------|-----------------------------|-------------------------|------------------------------|-------------------------------------|-----------------------|
| Low | 5180 | 24.00 | 22.23 | 19.23 | 19.23 | 11.00 | 10.00 | 7.00 |
| Mid | 5200 | 24.00 | 22.18 | 19.18 | 19.18 | 11.00 | 10.00 | 7.00 |
| High | 5240 | 24.00 | 22.17 | 19.17 | 19.17 | 11.00 | 10.00 | 7.00 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power |
|--------------------|------|--|

Output Power Results

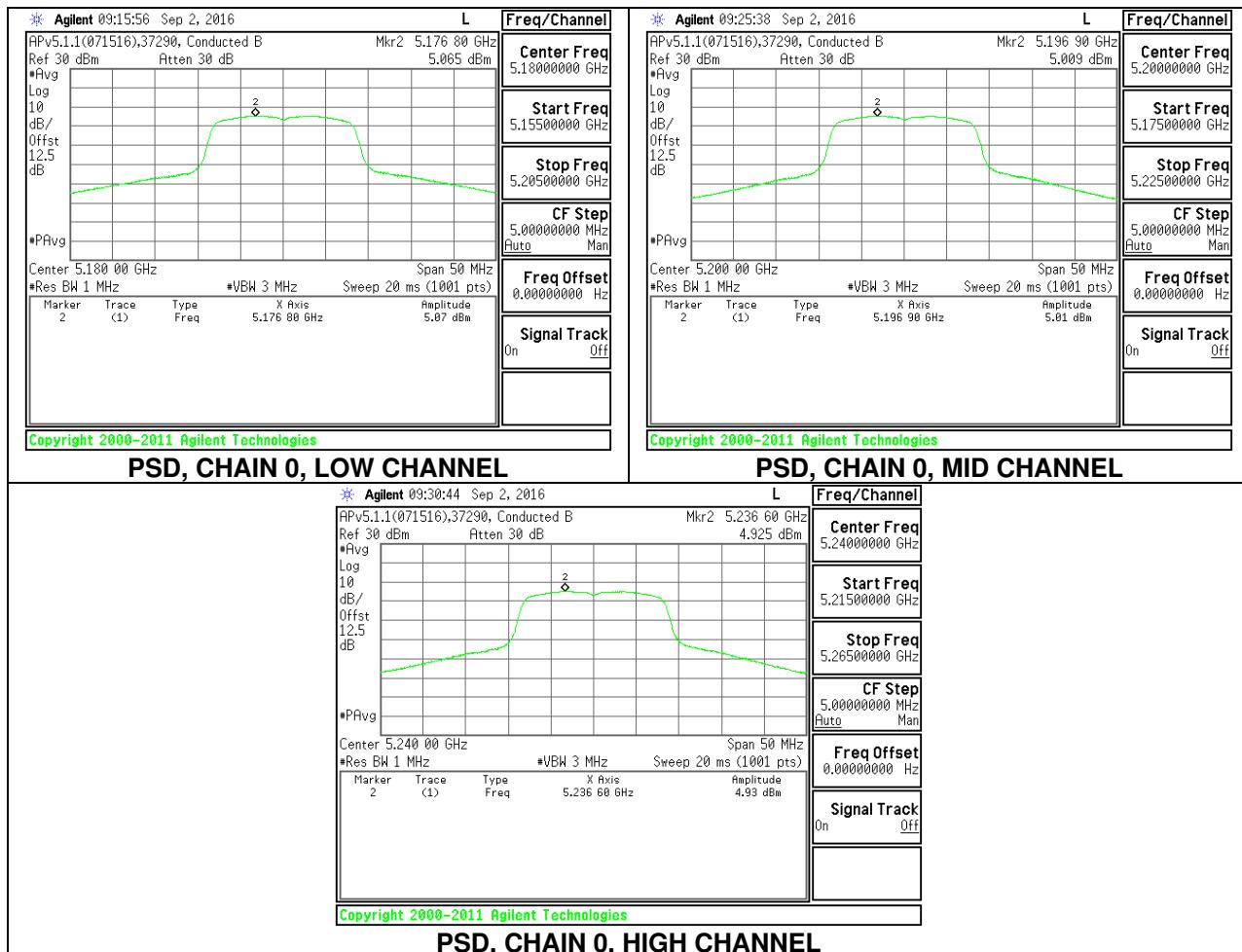
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5180 | 15.00 | 15.00 | 19.23 | -4.23 |
| Mid | 5200 | 16.00 | 16.00 | 19.18 | -3.18 |
| High | 5240 | 15.90 | 15.90 | 19.17 | -3.27 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5180 | 5.065 | 5.07 | 7.00 | -1.94 |
| Mid | 5200 | 5.009 | 5.01 | 7.00 | -1.99 |
| High | 5240 | 4.925 | 4.93 | 7.00 | -2.08 |

Note: the output power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 8/8/16 |
|-----|-------|-------|--------|



7.3. 802.11n HT20 MODE IN THE 5.2 GHz BAND (Chain 0 & 1)

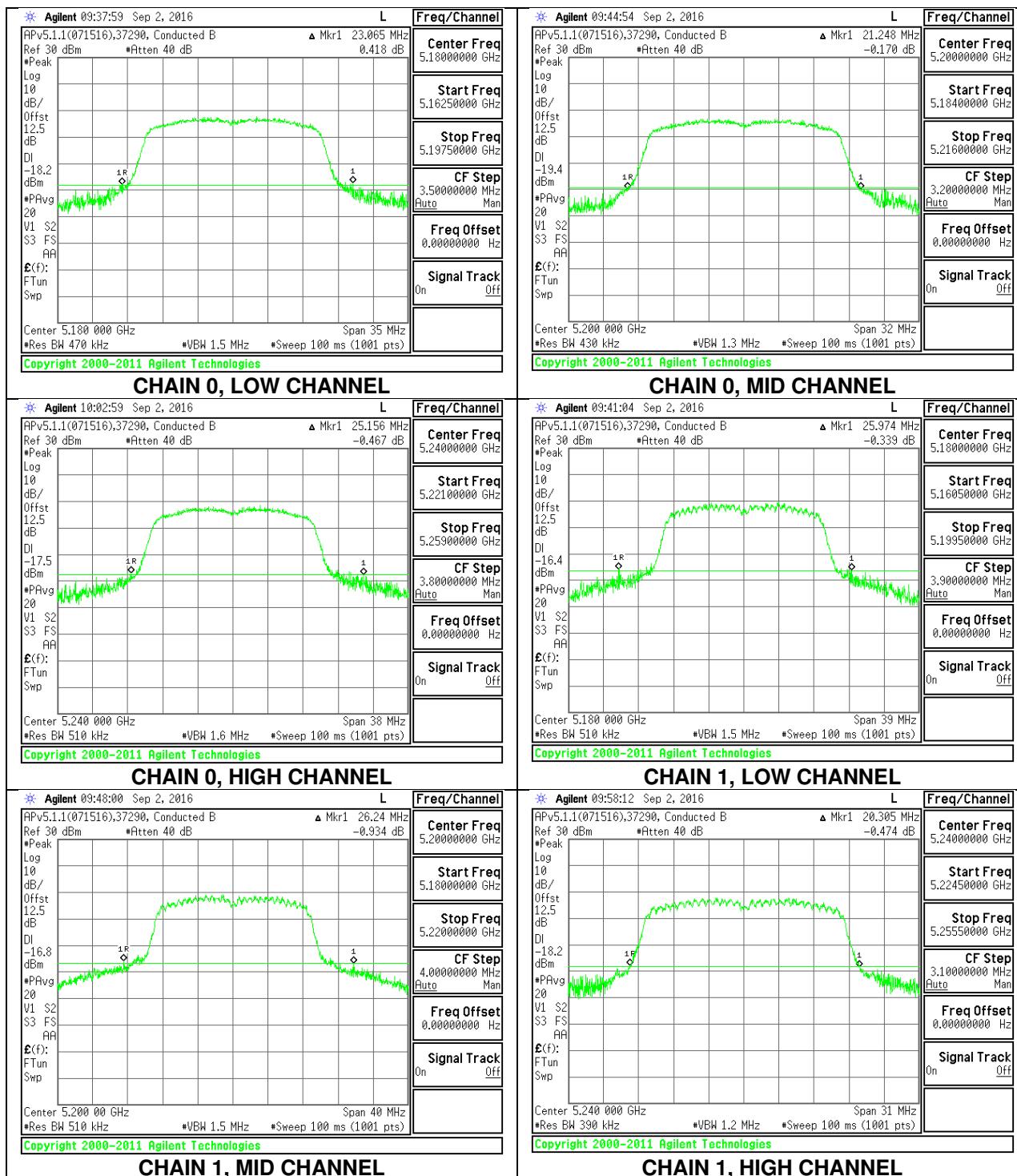
7.3.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB BW CHAIN 0 (MHz) | 26 dB BW CHAIN 1 (MHz) |
|---------|-----------------|------------------------|------------------------|
| Low | 5180 | 23.065 | 25.974 |
| Mid | 5200 | 21.248 | 26.240 |
| High | 5240 | 25.156 | 20.305 |



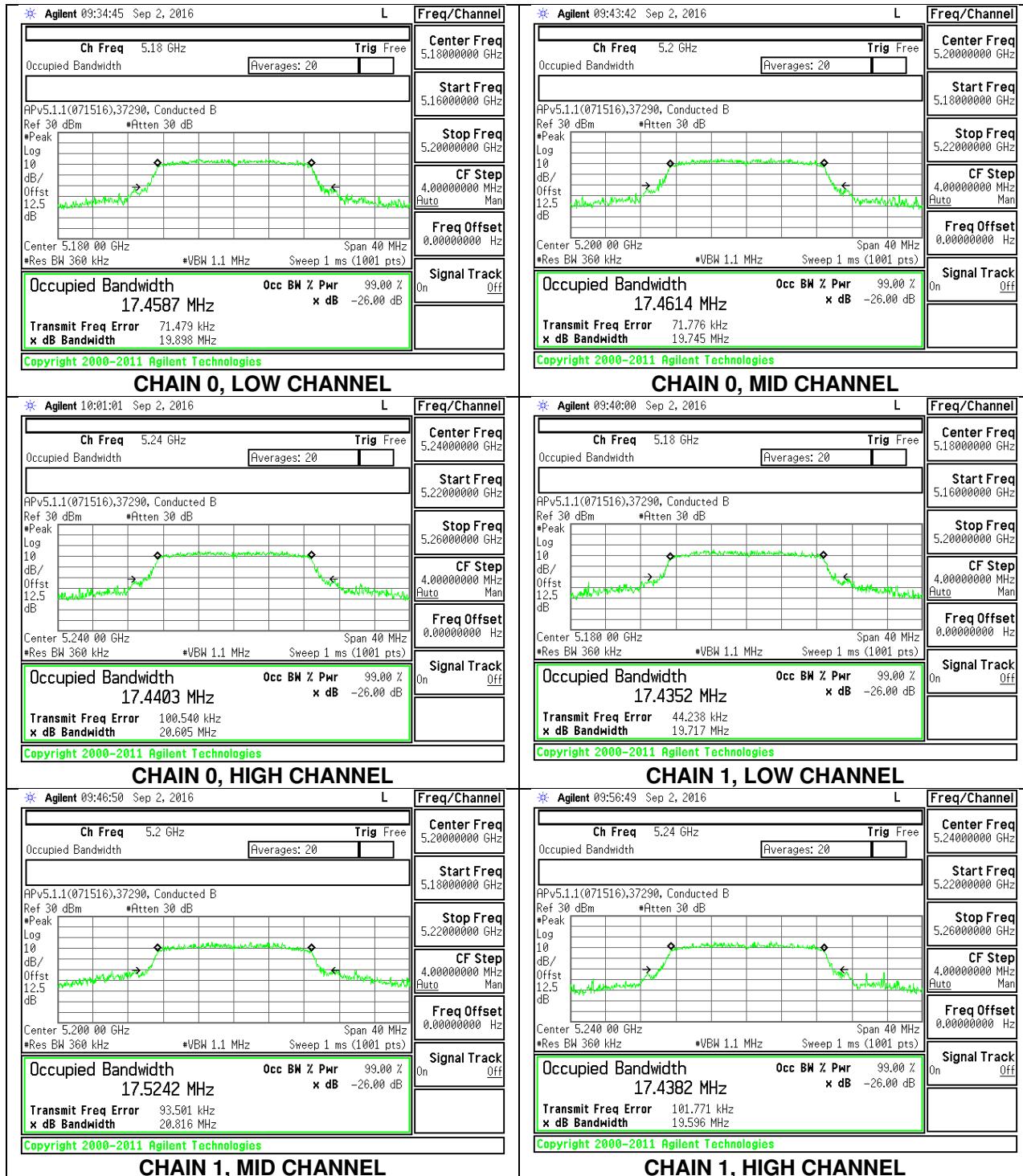
7.3.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) | 99% BW CHAIN 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5180 | 17.4587 | 17.4352 |
| Mid | 5200 | 17.4614 | 17.5242 |
| High | 5240 | 17.4403 | 17.4382 |



7.3.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.1(1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.00 | 3.00 | 3.00 |

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.00 | 3.00 | 6.01 |

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) |
|---------|--------------------|---------------------------|---|---|
| Low | 5180 | 17.4352 | 3.00 | 6.01 |
| Mid | 5200 | 17.4614 | 3.00 | 6.01 |
| High | 5240 | 17.4382 | 3.00 | 6.01 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC EIRP Limit (dBm) | Max IC Power (dBm) | Power Limit (dBm) | FCC PSD Limit (dBm) |
|---------|--------------------|--------------------------------|------------------------------|-----------------------------|-------------------------|------------------------------|
| Low | 5180 | 24.00 | 22.41 | 19.41 | 19.41 | 10.99 |
| Mid | 5200 | 24.00 | 22.42 | 19.42 | 19.42 | 10.99 |
| High | 5240 | 24.00 | 22.42 | 19.42 | 19.42 | 10.99 |

| | | |
|--------------------|------|---|
| Duty Cycle CF (dB) | 0.10 | Included in Calculations of Corr'd PPSD |
|--------------------|------|---|

Output Power Results

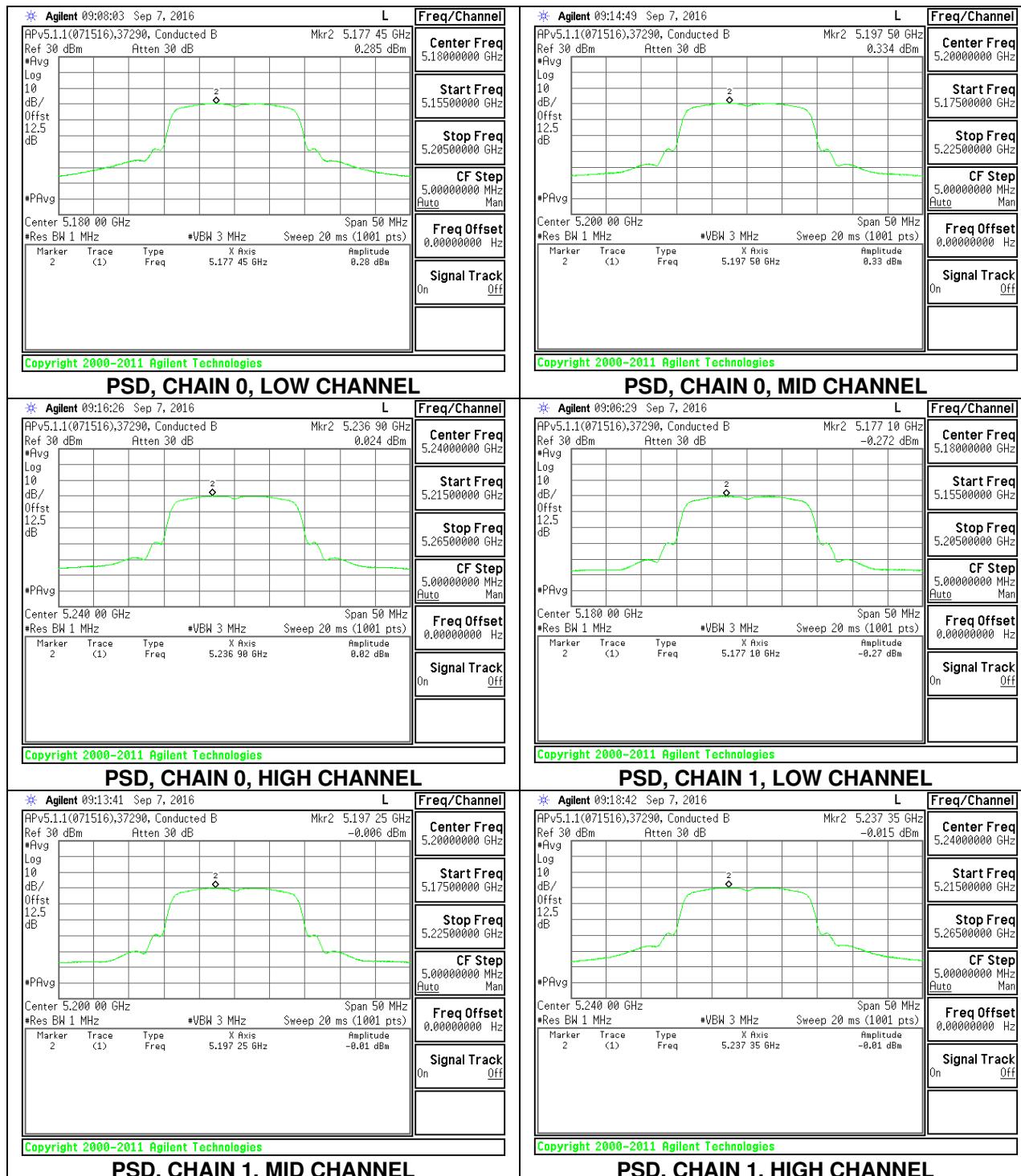
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5180 | 13.51 | 12.90 | 16.23 | 19.41 | -3.19 |
| Mid | 5200 | 13.08 | 12.80 | 15.95 | 19.42 | -3.47 |
| High | 5240 | 13.46 | 13.33 | 16.41 | 19.42 | -3.01 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5180 | 0.285 | -0.272 | 3.13 | 3.99 | -0.86 |
| Mid | 5200 | 0.334 | -0.006 | 3.28 | 3.99 | -0.71 |
| High | 5240 | 0.024 | -0.015 | 3.11 | 3.99 | -0.88 |

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/7/16 |
|-----|-------|-------|--------|



7.4. 802.11n HT40 MODE IN THE 5.2 GHz BAND (Chain 0 & 1)

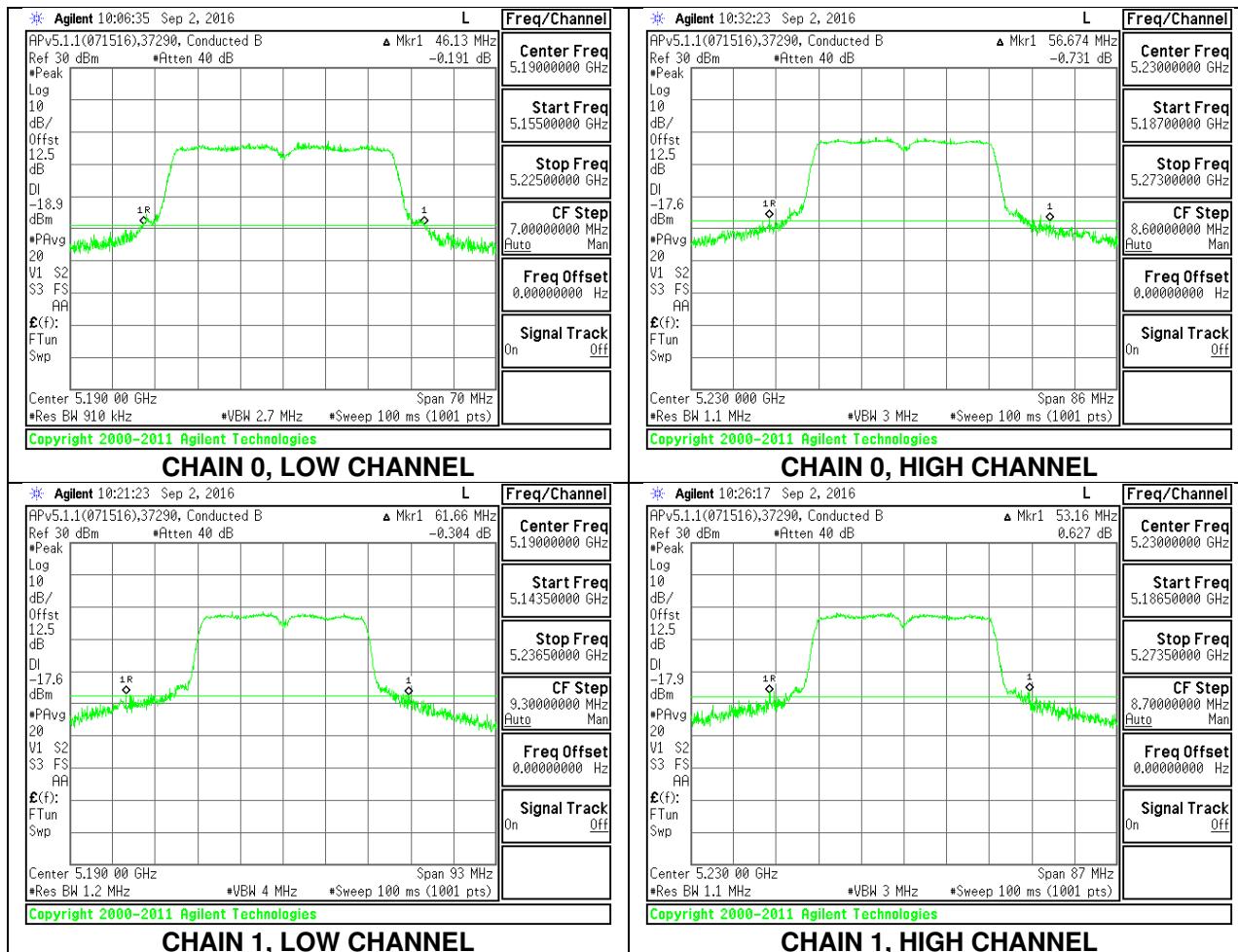
7.4.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26dB BW CHAIN 0 (MHz) | 26dB BW CHAIN 1 (MHz) |
|---------|-----------------|-----------------------|-----------------------|
| Low | 5190 | 46.130 | 61.660 |
| High | 5230 | 56.674 | 53.160 |



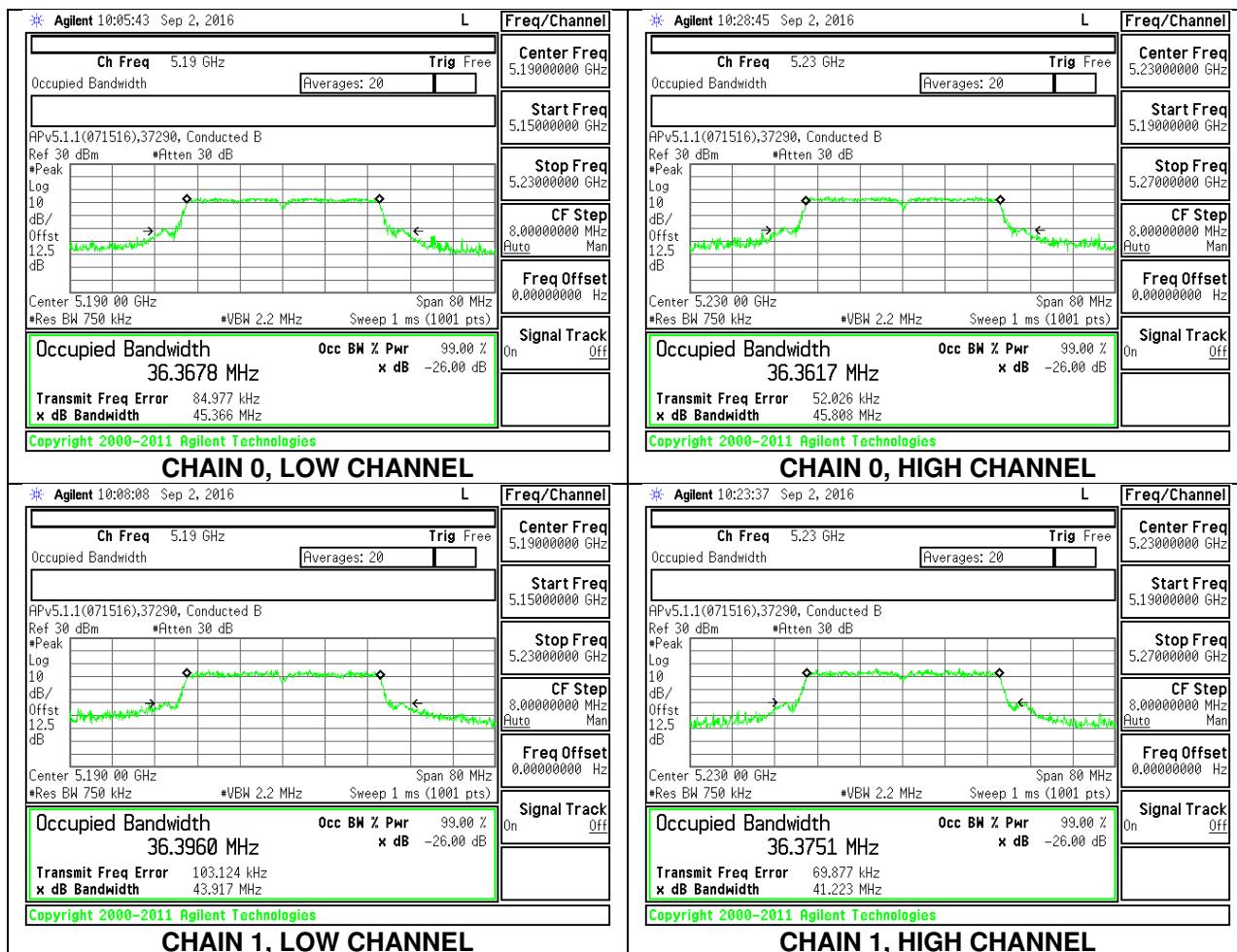
7.4.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) | 99% BW CHAIN 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5190 | 36.3678 | 36.3960 |
| High | 5230 | 36.3617 | 36.3751 |



7.4.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.1(1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.00 | 3.00 | 3.00 |

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.00 | 3.00 | 6.01 |

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) |
|---------|--------------------|---------------------------|---|---|
| Low | 5190 | 36.3678 | 3.00 | 6.01 |
| High | 5230 | 36.3617 | 3.00 | 6.01 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC EIRP Limit (dBm) | Max IC Power (dBm) | Power Limit (dBm) | FCC PSD Limit (dBm) | IC eirp PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|------------------------------|-----------------------------|-------------------------|------------------------------|-------------------------------------|-----------------------|
| Low | 5190 | 24.00 | 23.00 | 20.00 | 20.00 | 10.99 | 10.00 | 3.99 |
| High | 5230 | 24.00 | 23.00 | 20.00 | 20.00 | 10.99 | 10.00 | 3.99 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

Output Power Results

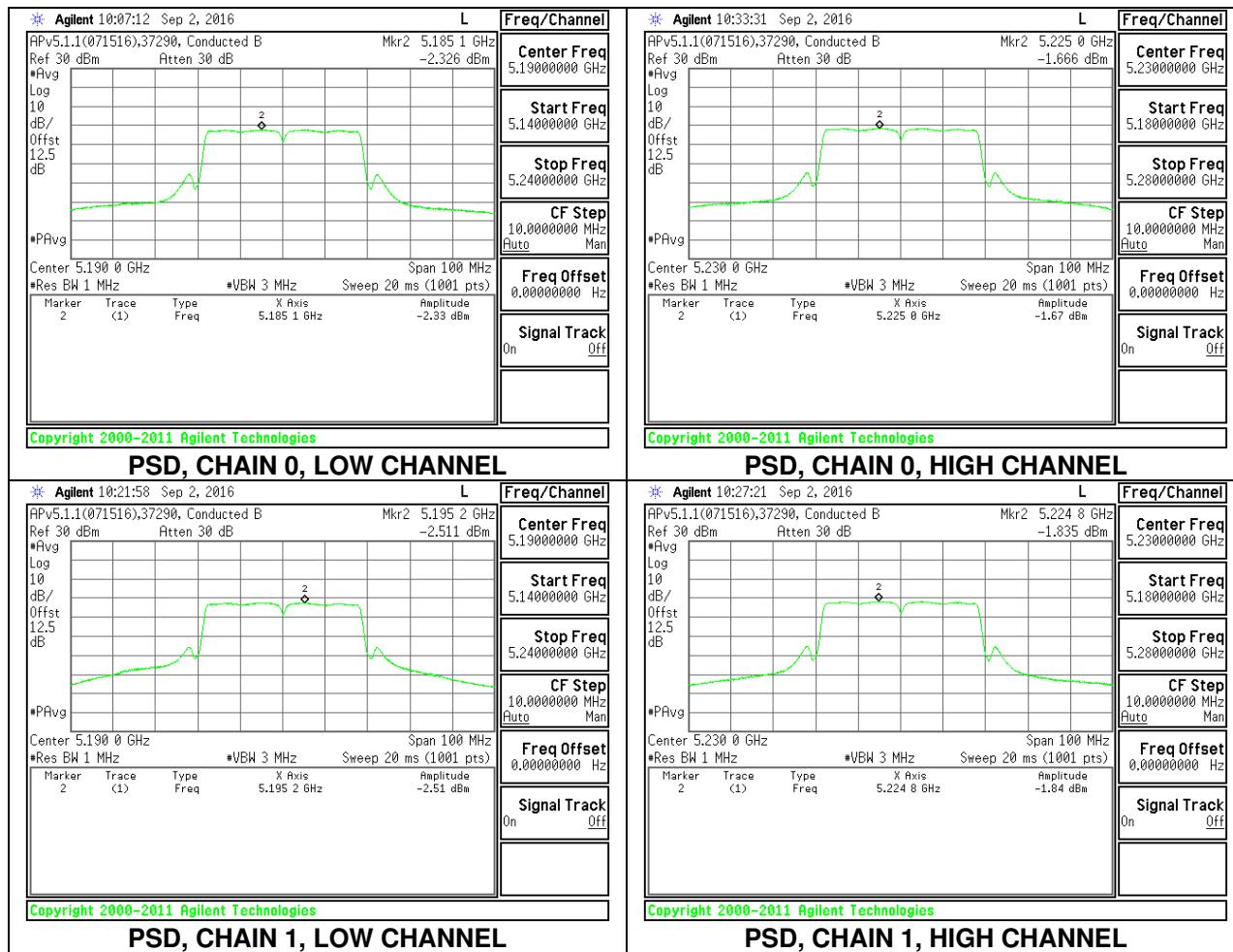
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5190 | 11.88 | 11.76 | 14.83 | 20.00 | -5.17 |
| High | 5230 | 13.11 | 12.80 | 15.97 | 20.00 | -4.03 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5190 | -2.326 | -2.511 | 0.76 | 3.99 | -3.23 |
| High | 5230 | -1.666 | -1.835 | 1.43 | 3.99 | -2.56 |

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/2/16 |
|-----|-------|-------|--------|



7.5. 802.11a MODE IN THE 5.3 GHz BAND (Chain 0)

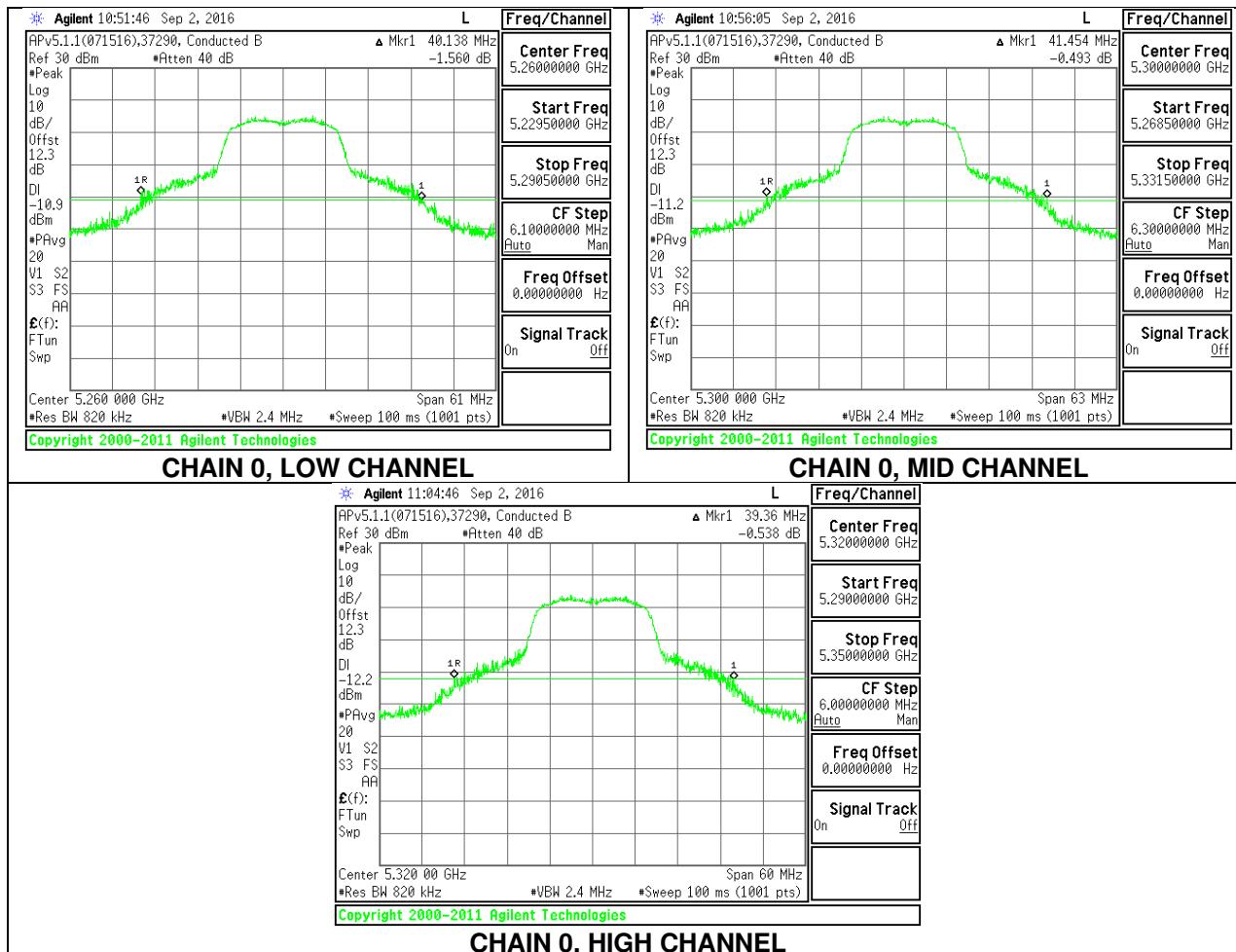
7.5.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB BW CHAIN 0 (MHz) |
|---------|-----------------|------------------------|
| Low | 5260 | 40.138 |
| Mid | 5300 | 41.454 |
| High | 5320 | 39.360 |



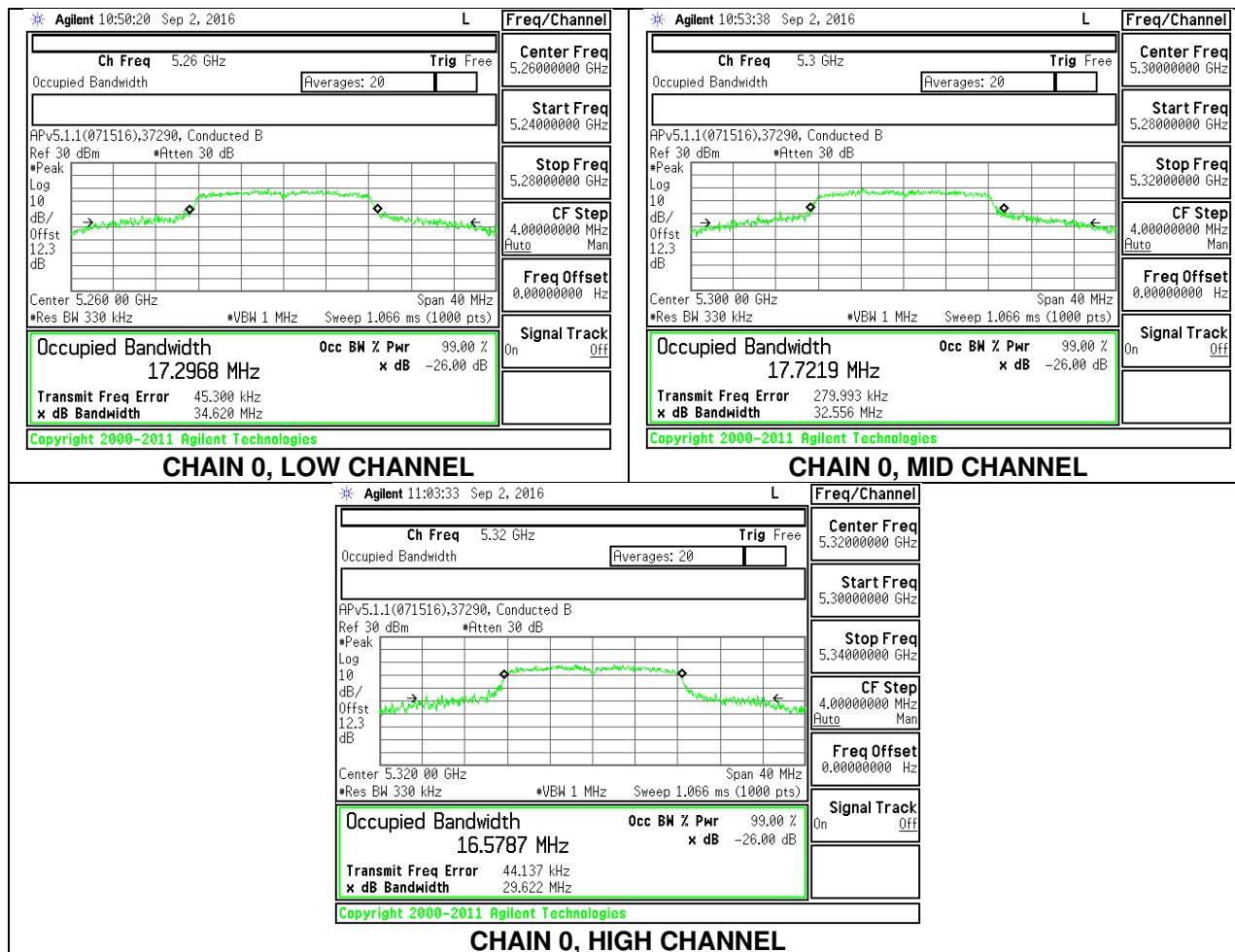
7.5.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) |
|---------|-----------------|----------------------|
| Low | 5260 | 17.2968 |
| Mid | 5300 | 17.7219 |
| High | 5320 | 16.5787 |



7.5.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log_{10} B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.2 (1)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain (dBi) |
|---------|--------------------|-----------------------------|---------------------------|------------------------------|
| Low | 5260 | 40.138 | 17.2968 | 3.00 |
| Mid | 5300 | 41.454 | 17.7219 | 3.00 |
| High | 5320 | 39.360 | 16.5787 | 3.00 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PPSD Limit (dBm) | IC PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|-------------------------------|-----------------------------|-----------------------|
| Low | 5260 | 24.00 | 23.38 | 29.38 | 23.38 | 11.00 | 11.00 | 11.00 |
| Mid | 5300 | 24.00 | 23.49 | 29.49 | 23.49 | 11.00 | 11.00 | 11.00 |
| High | 5320 | 24.00 | 23.20 | 29.20 | 23.20 | 11.00 | 11.00 | 11.00 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

Output Power Results

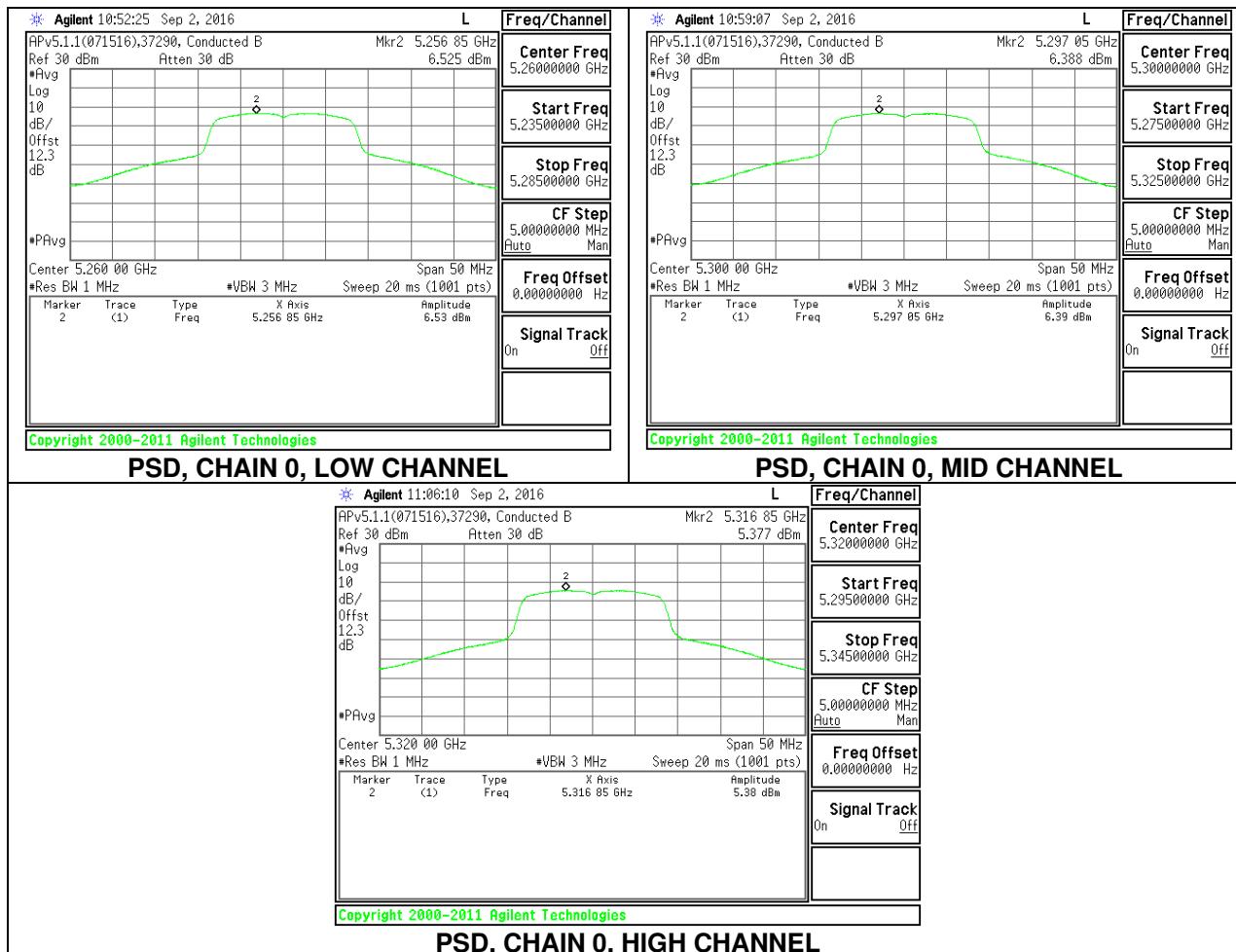
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5260 | 19.20 | 19.20 | 23.38 | -4.18 |
| Mid | 5300 | 17.70 | 17.70 | 23.49 | -5.79 |
| High | 5320 | 16.54 | 16.54 | 23.20 | -6.66 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5260 | 6.525 | 6.53 | 11.00 | -4.48 |
| Mid | 5300 | 6.388 | 6.39 | 11.00 | -4.61 |
| High | 5320 | 5.377 | 5.38 | 11.00 | -5.62 |

Note: the output power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/2/16 |
|-----|-------|-------|--------|



7.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND (Chain 0 & 1)

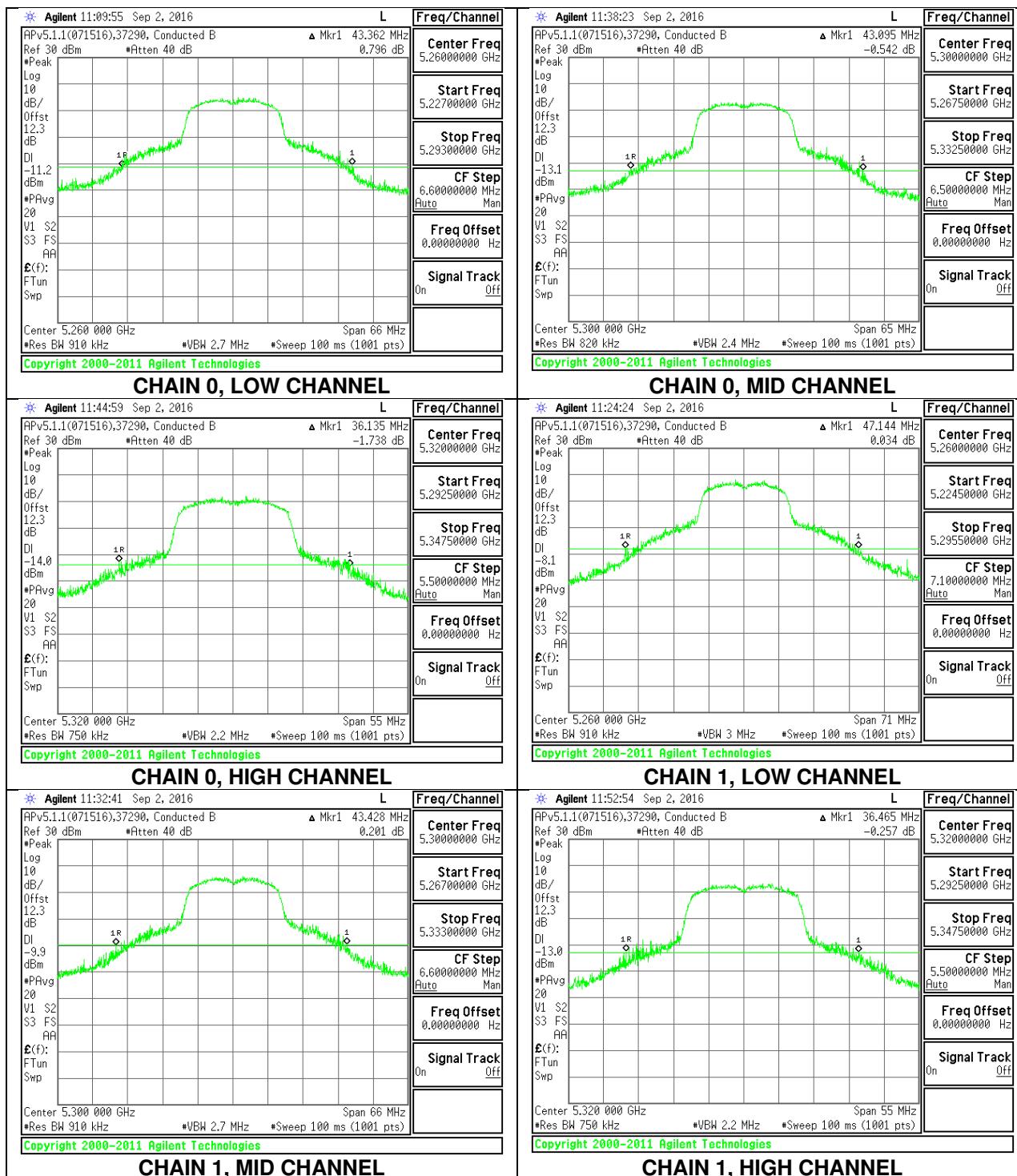
7.6.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB BW CHAIN 0 (MHz) | 26 dB BW CHAIN 1 (MHz) |
|---------|-----------------|------------------------|------------------------|
| Low | 5260 | 43.362 | 47.144 |
| Mid | 5300 | 43.095 | 43.428 |
| High | 5320 | 36.135 | 36.465 |



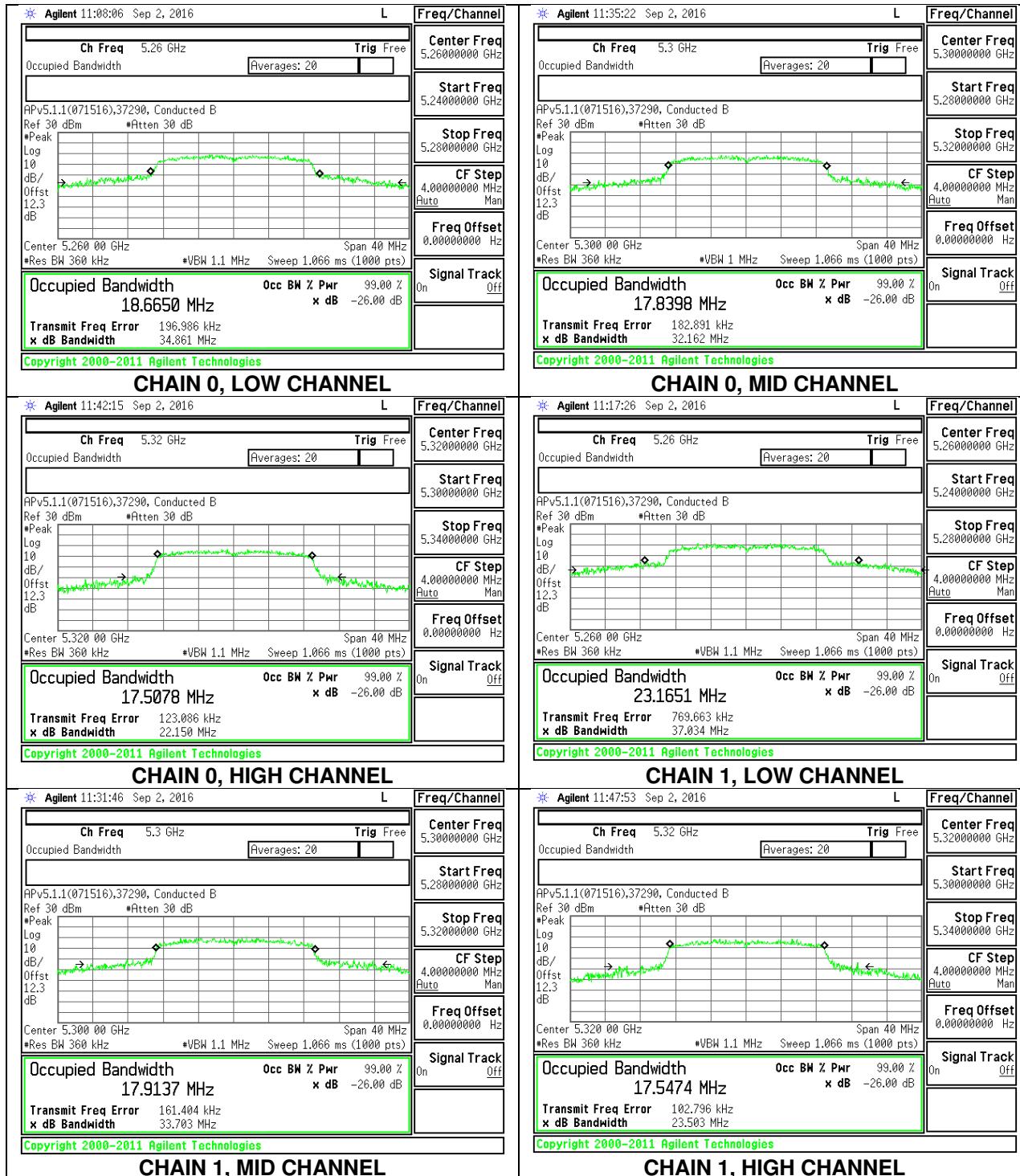
7.6.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) | 99% BW CHAIN 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5260 | 18.6650 | 23.1651 |
| Mid | 5300 | 17.8398 | 17.9137 |
| High | 5320 | 17.5078 | 17.5474 |



7.6.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.2 (1)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|---|---|---|
| 3.00 | 3.00 | 3.00 |

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|---|---|---|
| 3.00 | 3.00 | 6.01 |

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) |
|---------|--------------------|-----------------------------|---------------------------|---|---|
| Low | 5260 | 43.362 | 18.6650 | 3.00 | 6.01 |
| Mid | 5300 | 43.095 | 17.8398 | 3.00 | 6.01 |
| High | 5320 | 36.135 | 17.5078 | 3.00 | 6.01 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PSD Limit (dBm) | IC PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|------------------------------|-----------------------------|-----------------------|
| Low | 5260 | 24.00 | 23.71 | 29.71 | 23.71 | 10.99 | 11.00 | 10.99 |
| Mid | 5300 | 24.00 | 23.51 | 29.51 | 23.51 | 10.99 | 11.00 | 10.99 |
| High | 5320 | 24.00 | 23.43 | 29.43 | 23.43 | 10.99 | 11.00 | 10.99 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.10 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

Output Power Results

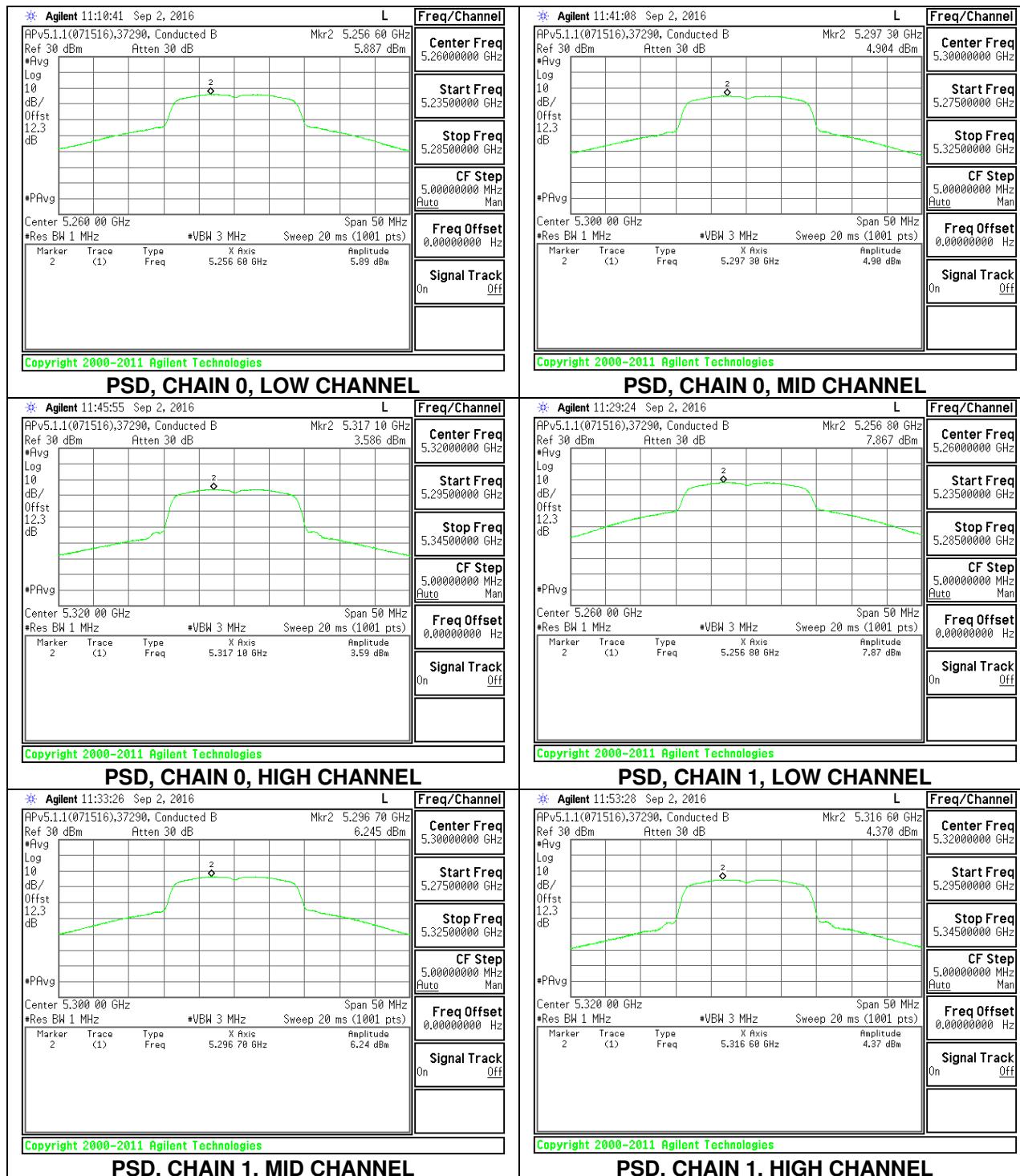
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5260 | 14.94 | 14.90 | 17.93 | 23.71 | -5.78 |
| Mid | 5300 | 15.37 | 16.13 | 18.78 | 23.51 | -4.74 |
| High | 5320 | 13.45 | 13.90 | 16.69 | 23.43 | -6.74 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5260 | 5.887 | 7.867 | 10.10 | 10.99 | -0.89 |
| Mid | 5300 | 4.904 | 6.425 | 8.84 | 10.99 | -2.15 |
| High | 5320 | 3.586 | 4.370 | 7.11 | 10.99 | -3.88 |

Note: the output power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/2/16 |
|-----|-------|-------|--------|



7.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND (Chain 0 & 1)

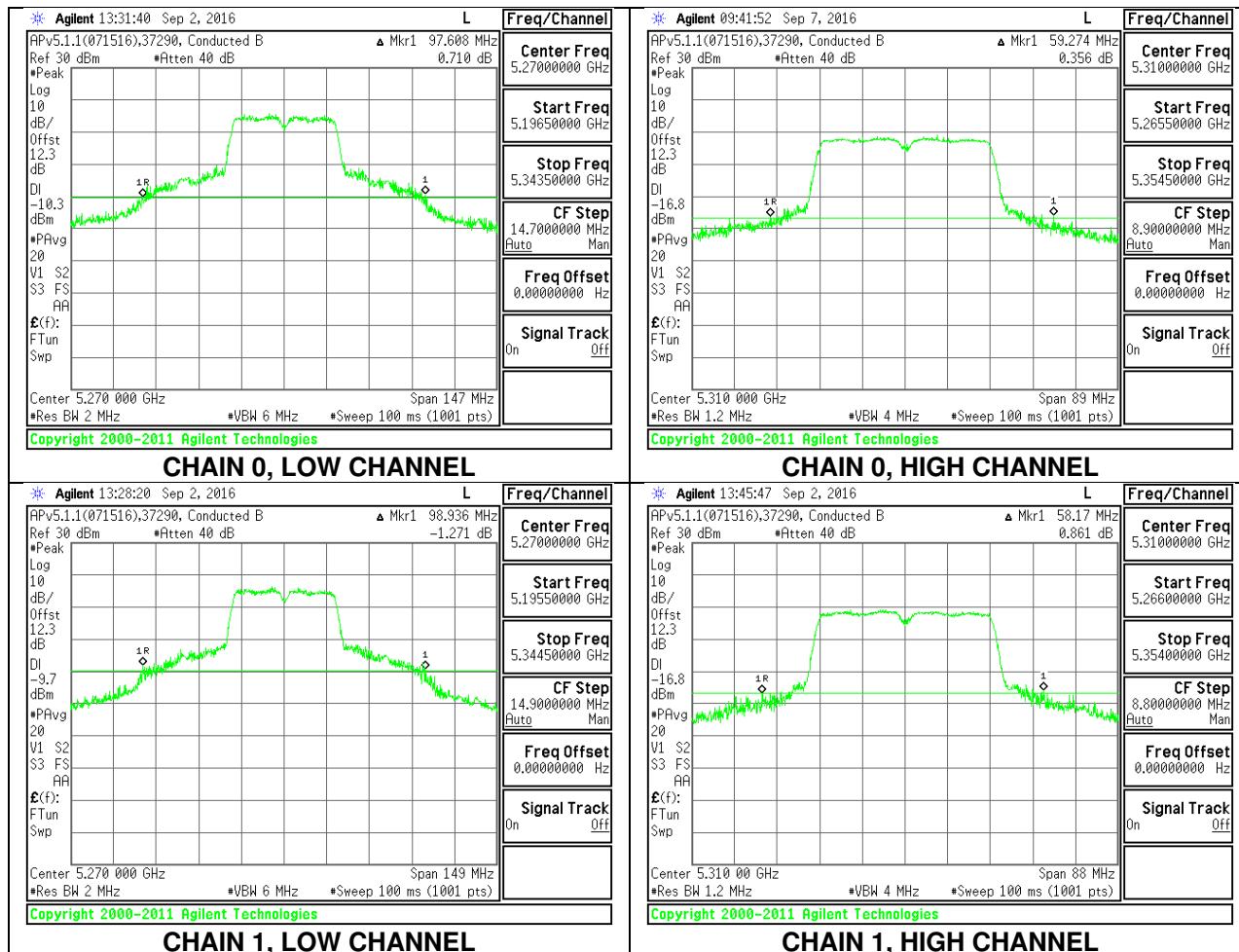
7.7.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26dB BW CHAIN 0 (MHz) | 26dB BW CHAIN 1 (MHz) |
|---------|-----------------|-----------------------|-----------------------|
| Low | 5270 | 97.608 | 98.936 |
| HIGH | 5310 | 59.274 | 58.170 |



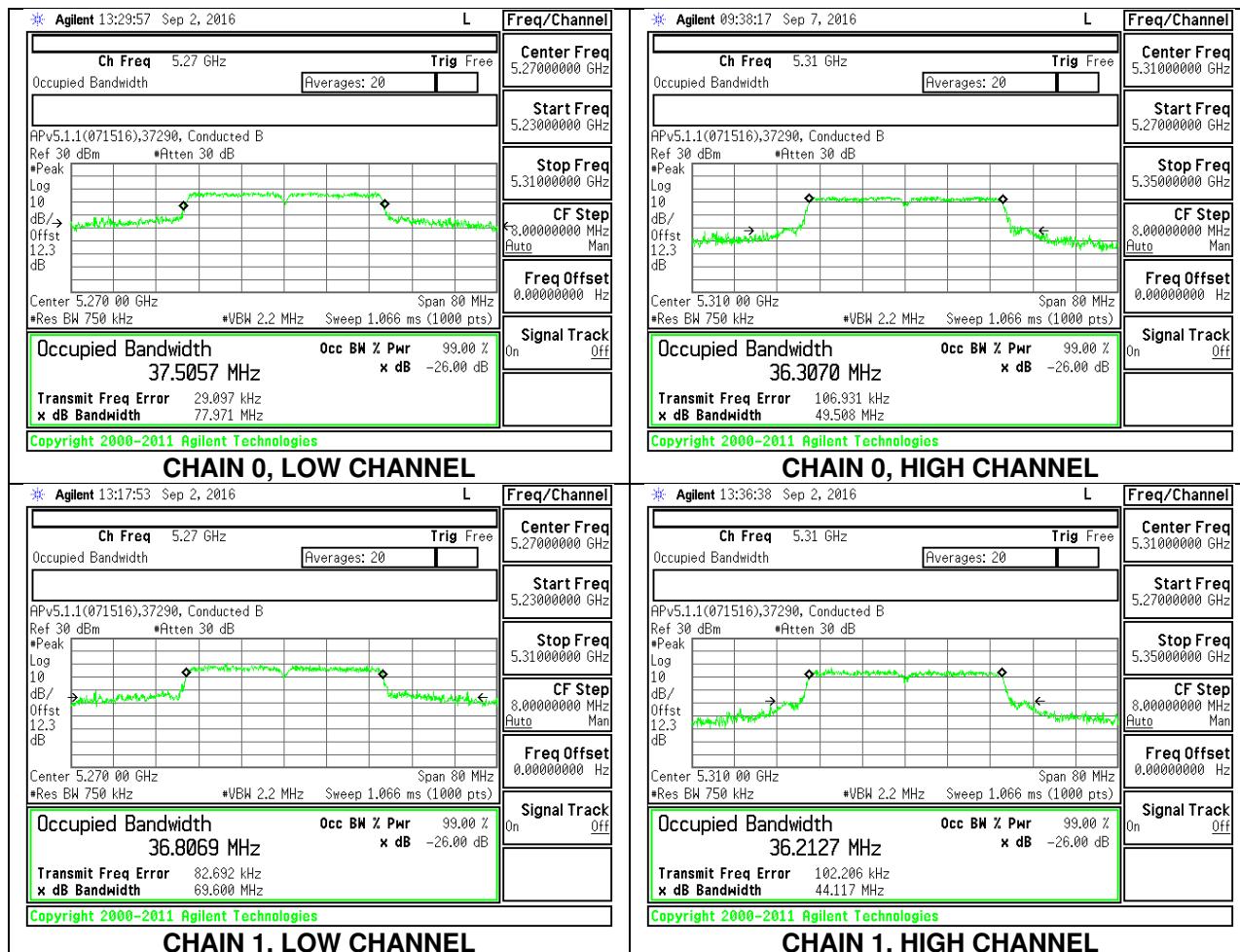
7.7.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) | 99% BW CHAIN 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5270 | 37.506 | 36.807 |
| HIGH | 5310 | 36.307 | 36.213 |



7.7.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.2 (1)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.00 | 3.00 | 3.00 |

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 3.00 | 3.00 | 6.01 |

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) |
|---------|--------------------|-----------------------------|---------------------------|---|---|
| Low | 5270 | 81.440 | 36.8000 | 3.00 | 6.01 |
| High | 5310 | 46.390 | 36.6000 | 3.00 | 6.01 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PPSD Limit (dBm) | IC PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|-------------------------------|-----------------------------|-----------------------|
| Low | 5270 | 24.00 | 24.00 | 30.00 | 24.00 | 10.99 | 11.00 | 10.99 |
| High | 5310 | 24.00 | 24.00 | 30.00 | 24.00 | 10.99 | 11.00 | 10.99 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

Output Power Results

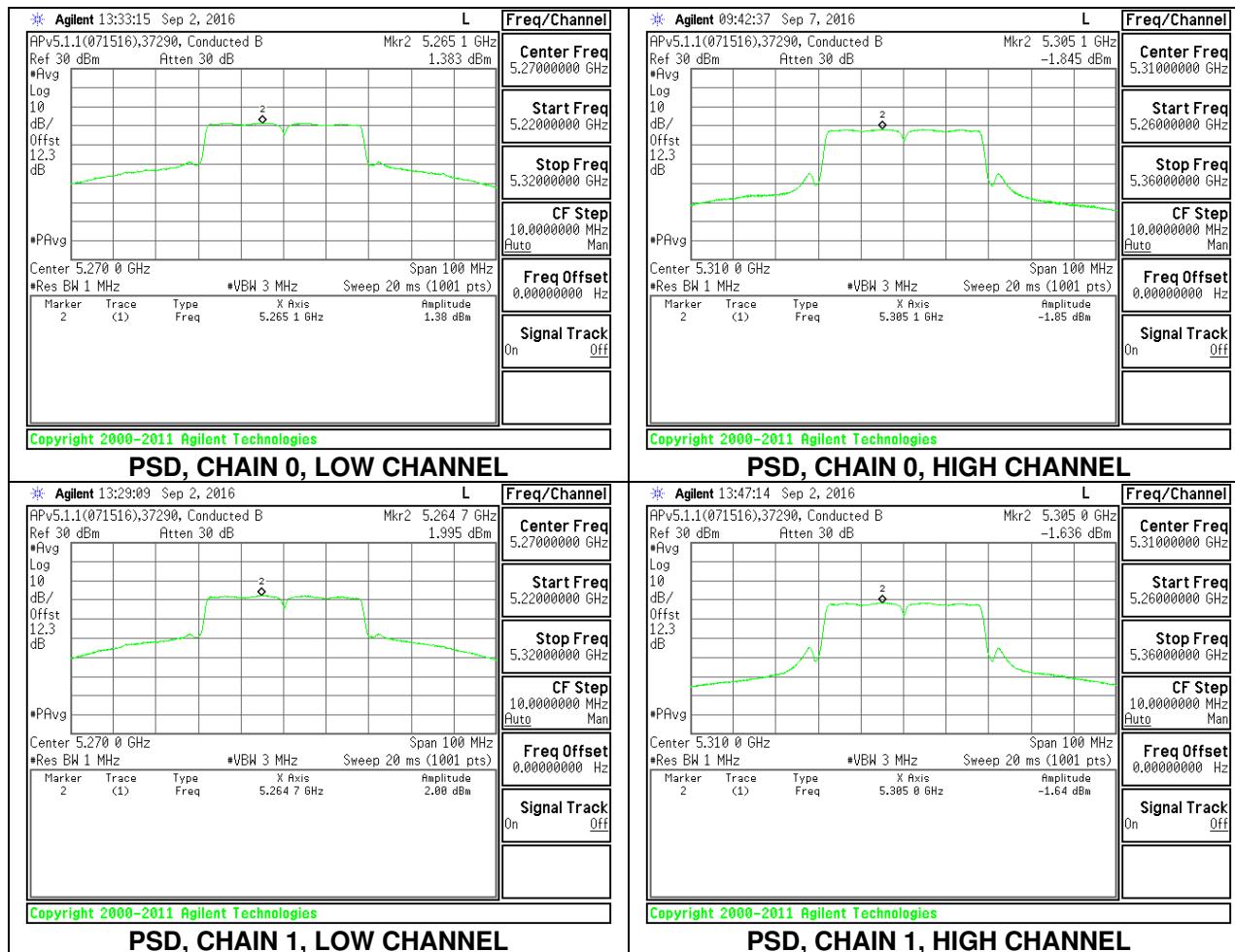
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5270 | 16.40 | 17.20 | 19.83 | 24.00 | -4.17 |
| High | 5310 | 11.80 | 11.77 | 14.80 | 24.00 | -9.20 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5270 | 1.38 | 2.00 | 4.88 | 10.99 | -6.11 |
| High | 5310 | -1.85 | -1.64 | 1.44 | 10.99 | -9.55 |

Note: the output power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/2/16 |
|-----|-------|-------|--------|



7.8. 802.11a MODE IN THE 5.5 GHz BAND (Chain 0)

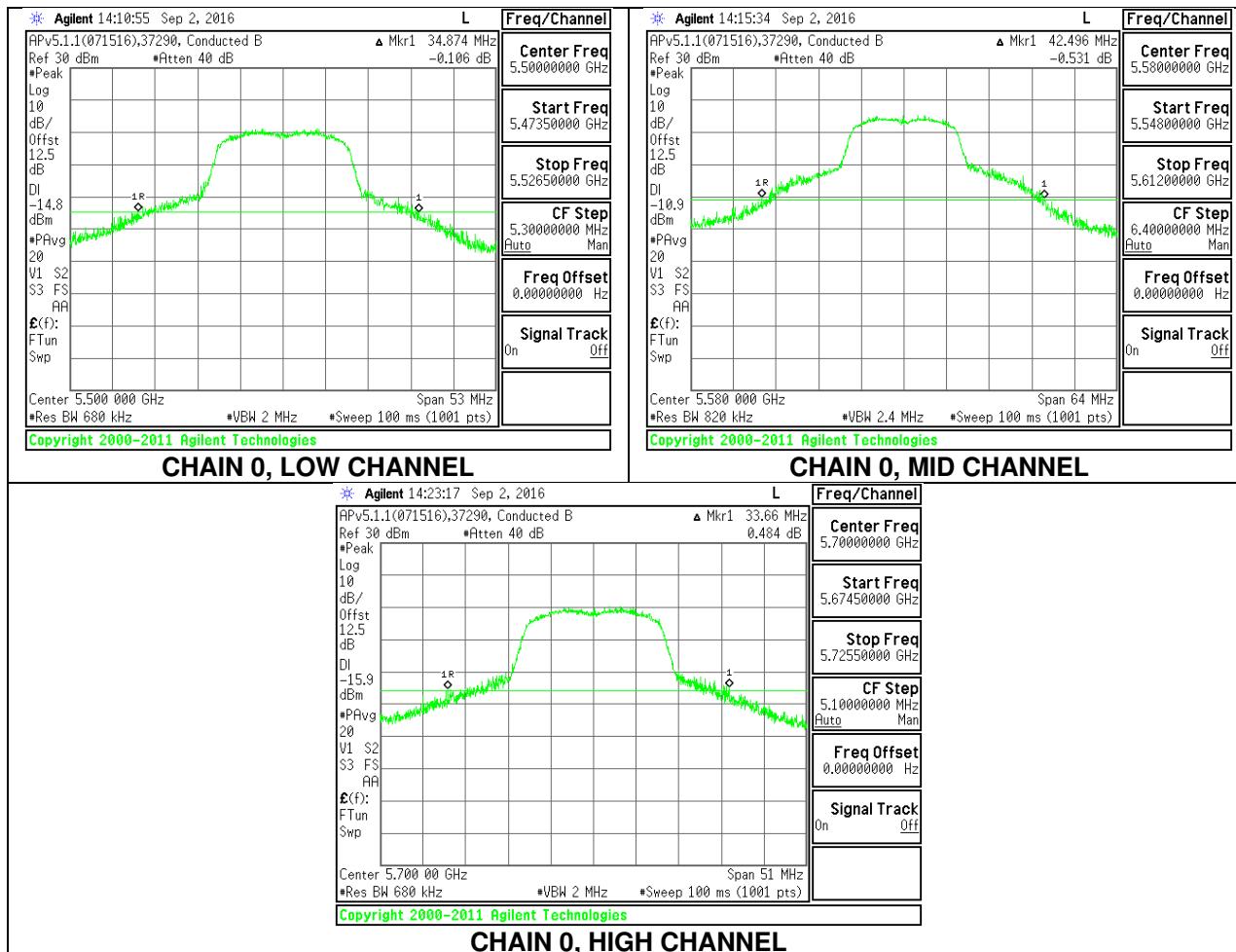
7.8.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB BW CHAIN 0 (MHz) |
|---------|-----------------|------------------------|
| Low | 5500 | 34.874 |
| Mid | 5580 | 42.496 |
| High | 5700 | 33.660 |



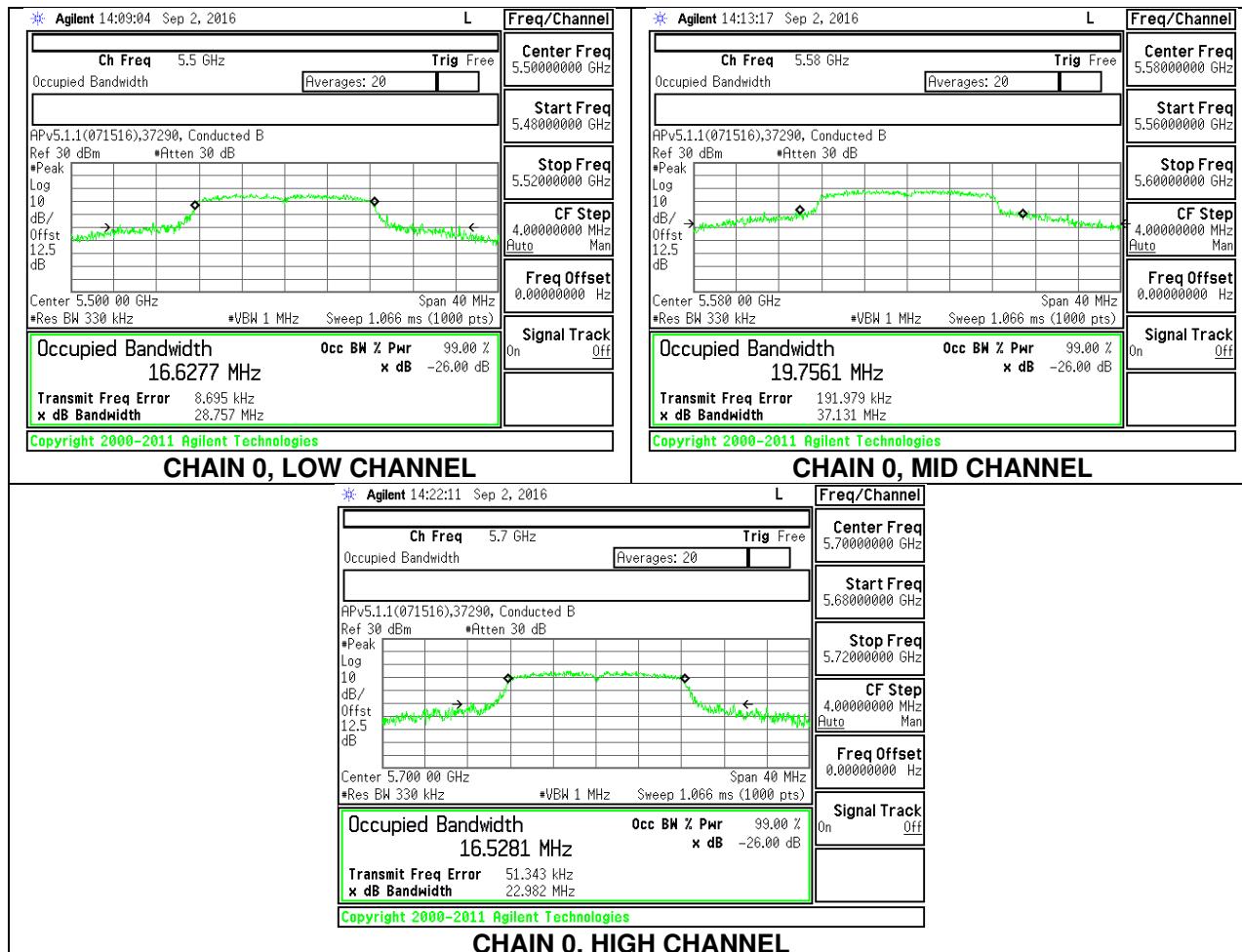
7.8.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) |
|---------|-----------------|----------------------|
| Low | 5500 | 16.6277 |
| Mid | 5580 | 19.7561 |
| High | 5700 | 16.5281 |



7.8.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log_{10} B$, where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.3 (1)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain (dBi) |
|---------|--------------------|-----------------------------|---------------------------|------------------------------|
| Low | 5500 | 22.020 | 16.5600 | 4.00 |
| Mid | 5580 | 42.130 | 25.3200 | 4.00 |
| High | 5700 | 22.480 | 16.4400 | 4.00 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PSD Limit (dBm) | IC PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|------------------------------|-----------------------------|-----------------------|
| Low | 5500 | 24.00 | 23.19 | 29.19 | 23.19 | 11.00 | 11.00 | 11.00 |
| Mid | 5580 | 24.00 | 24.00 | 30.00 | 24.00 | 11.00 | 11.00 | 11.00 |
| High | 5700 | 24.00 | 23.16 | 29.16 | 23.16 | 11.00 | 11.00 | 11.00 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|--|

Output Power Results

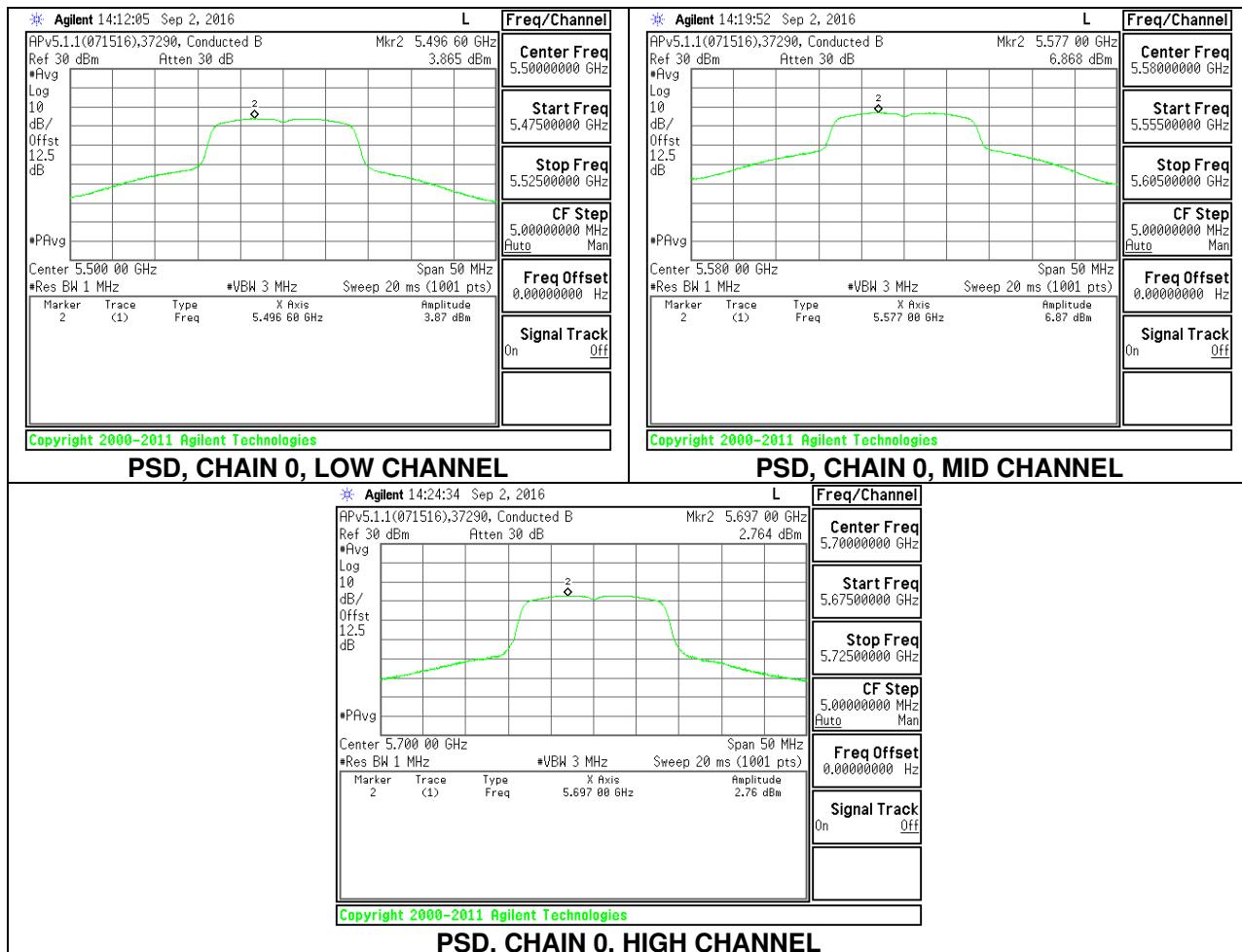
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5500 | 12.73 | 12.73 | 23.19 | -10.46 |
| Mid | 5580 | 17.77 | 17.77 | 24.00 | -6.23 |
| High | 5700 | 13.63 | 13.63 | 23.16 | -9.53 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5500 | 3.865 | 3.87 | 11.00 | -7.14 |
| Mid | 5580 | 6.868 | 6.87 | 11.00 | -4.13 |
| High | 5700 | 2.764 | 2.76 | 11.00 | -8.24 |

Note: the output power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/2/16 |
|-----|-------|-------|--------|



7.9. 802.11n HT20 MODE IN THE 5.5 GHz BAND (Chain 0 & 1)

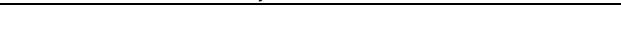
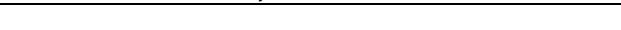
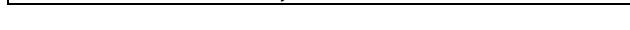
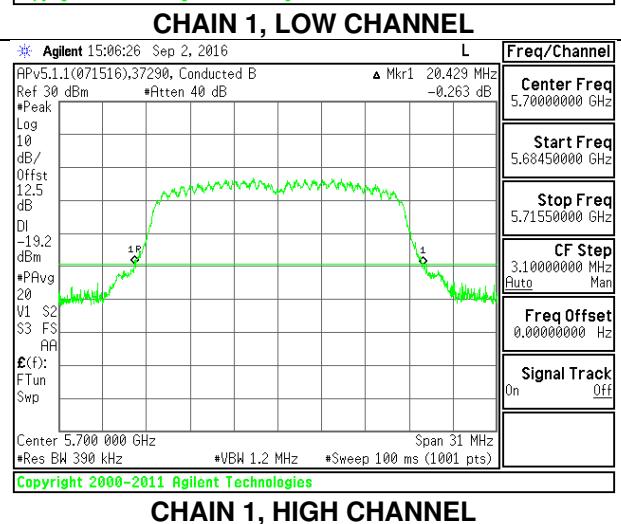
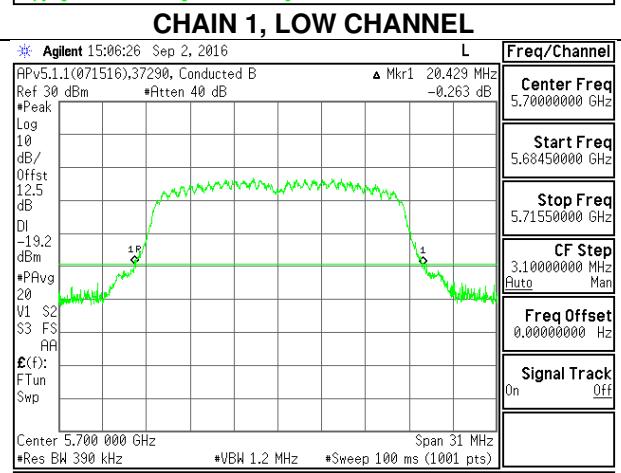
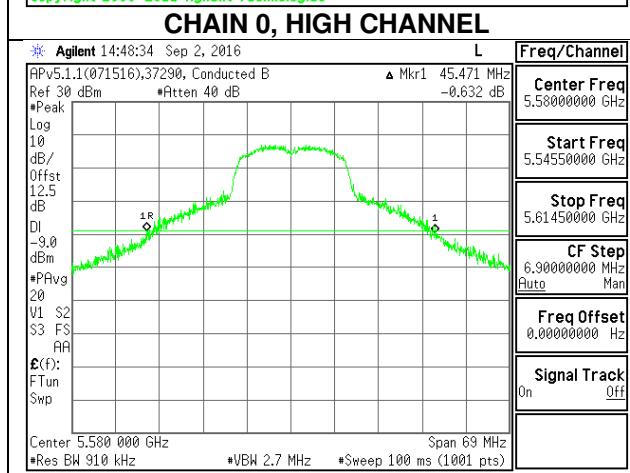
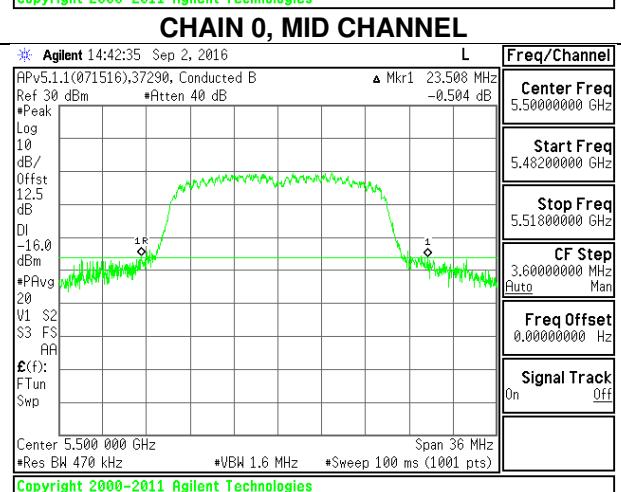
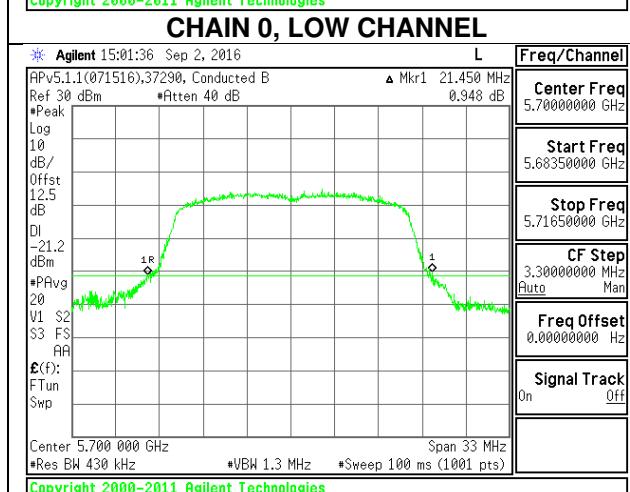
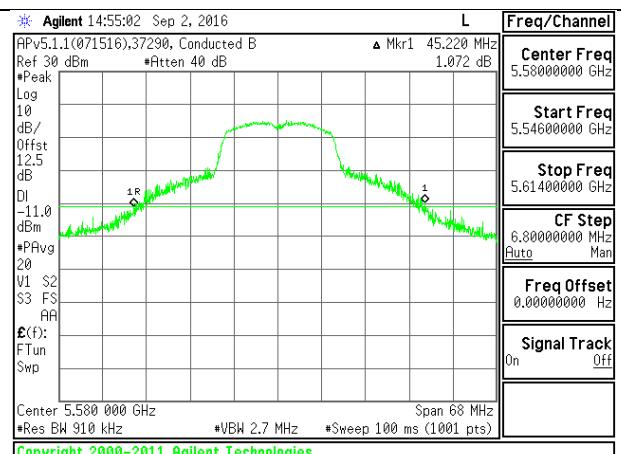
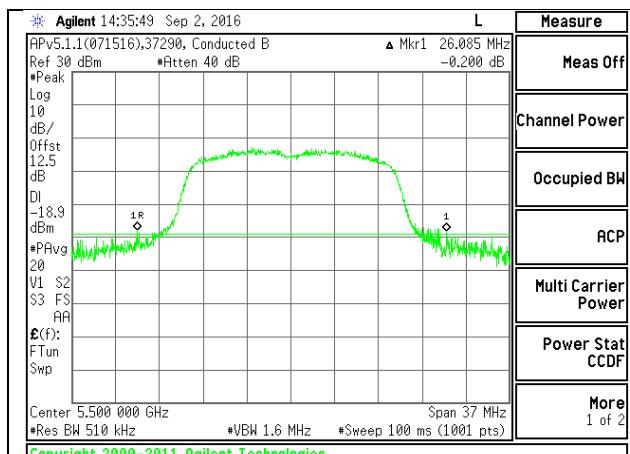
7.9.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 26 dB BW CHAIN 0 (MHz) | 26 dB BW CHAIN 1 (MHz) |
|---------|-----------------|------------------------|------------------------|
| Low | 5500 | 26.085 | 23.508 |
| Mid | 5580 | 45.220 | 45.471 |
| High | 5700 | 21.450 | 20.429 |



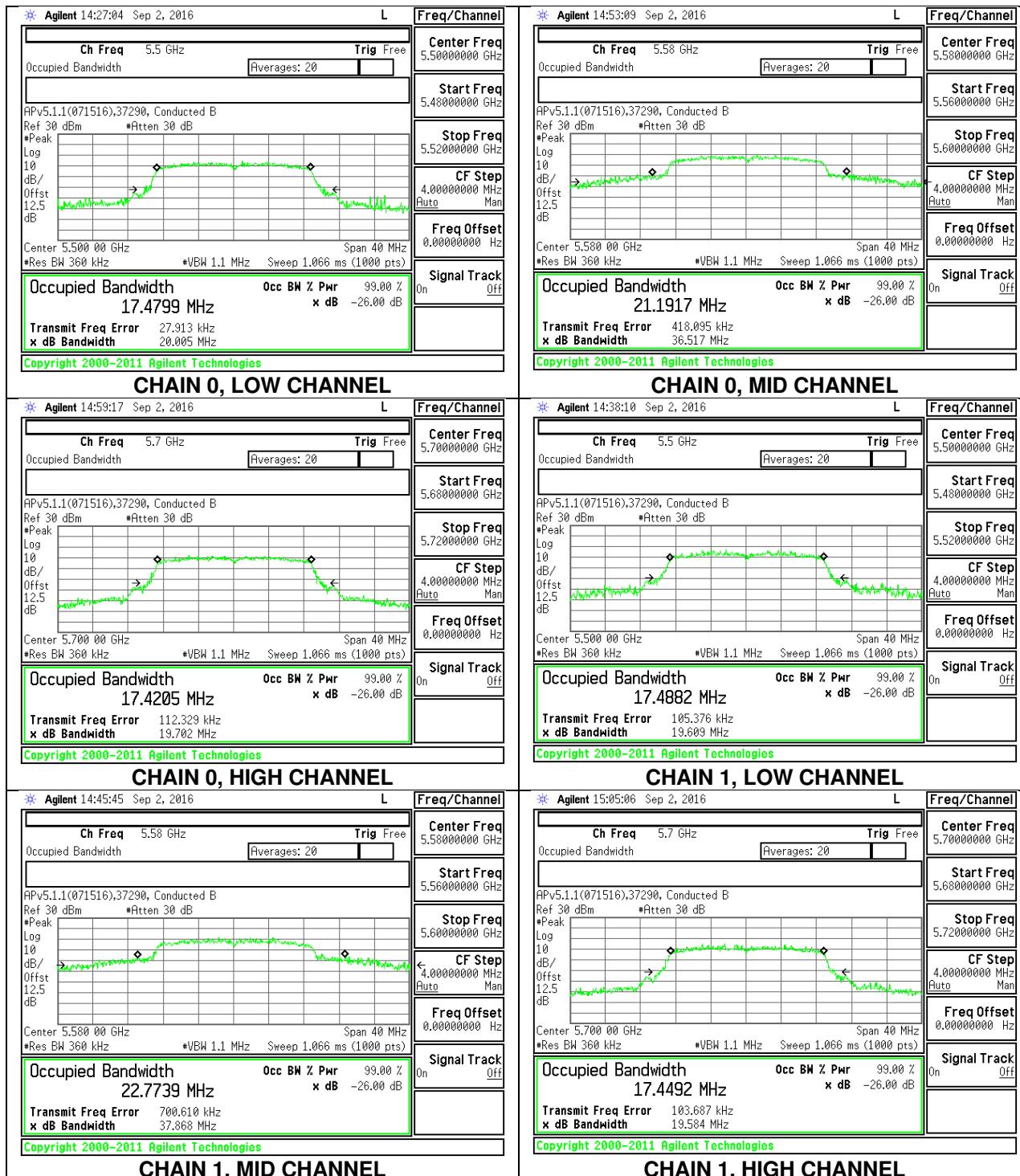
7.9.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) | 99% BW CHAIN 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5500 | 17.4799 | 17.4882 |
| Mid | 5580 | 21.1917 | 22.7739 |
| High | 5700 | 17.4205 | 17.4492 |



7.9.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.3 (1)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 4.00 | 4.00 | 4.00 |

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 4.00 | 4.00 | 7.01 |

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) |
|---------|--------------------|-----------------------------|---------------------------|---|---|
| Low | 5500 | 23.508 | 17.4799 | 4.00 | 7.01 |
| Mid | 5580 | 45.220 | 21.1917 | 4.00 | 7.01 |
| High | 5700 | 20.429 | 17.4205 | 4.00 | 7.01 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PSD Limit (dBm) | IC PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|------------------------------|-----------------------------|-----------------------|
| Low | 5500 | 24.00 | 23.43 | 29.43 | 23.43 | 9.99 | 11.00 | 9.99 |
| Mid | 5580 | 24.00 | 24.00 | 30.00 | 24.00 | 9.99 | 11.00 | 9.99 |
| High | 5700 | 24.00 | 23.41 | 29.41 | 23.41 | 9.99 | 11.00 | 9.99 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.10 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

Output Power Results

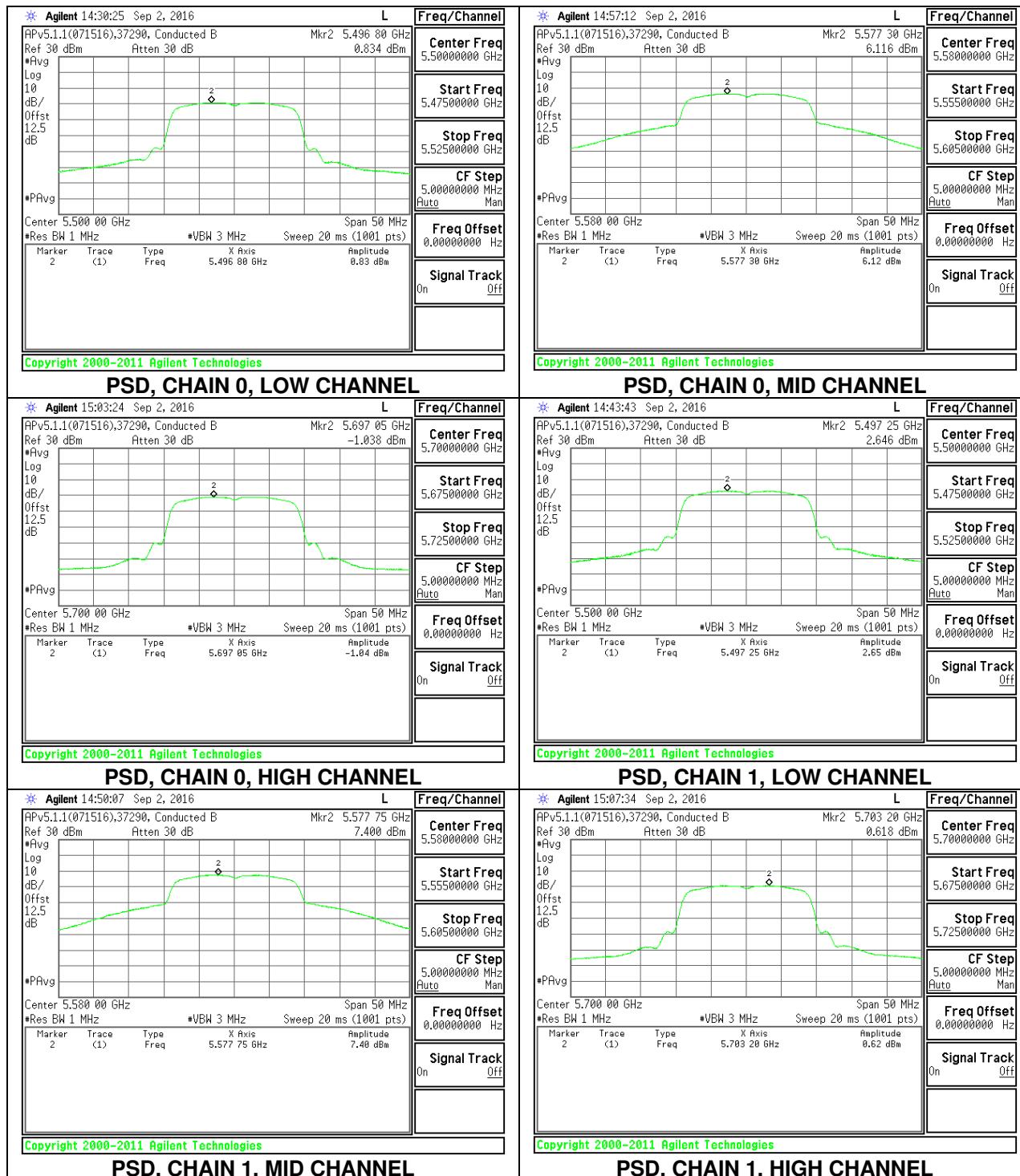
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5500 | 12.50 | 13.51 | 16.04 | 23.43 | -7.38 |
| Mid | 5580 | 17.40 | 18.52 | 21.01 | 24.00 | -2.99 |
| High | 5700 | 10.30 | 11.70 | 14.07 | 23.41 | -9.34 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5500 | 0.834 | 2.646 | 4.94 | 9.99 | -5.05 |
| Mid | 5580 | 6.116 | 7.400 | 9.92 | 9.99 | -0.07 |
| High | 5700 | -1.038 | 0.618 | 2.98 | 9.99 | -7.01 |

Note: the output power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/2/16 |
|-----|-------|-------|--------|



7.10. 802.11n HT40 MODE IN THE 5.5 GHz BAND (Chain 0 &1)

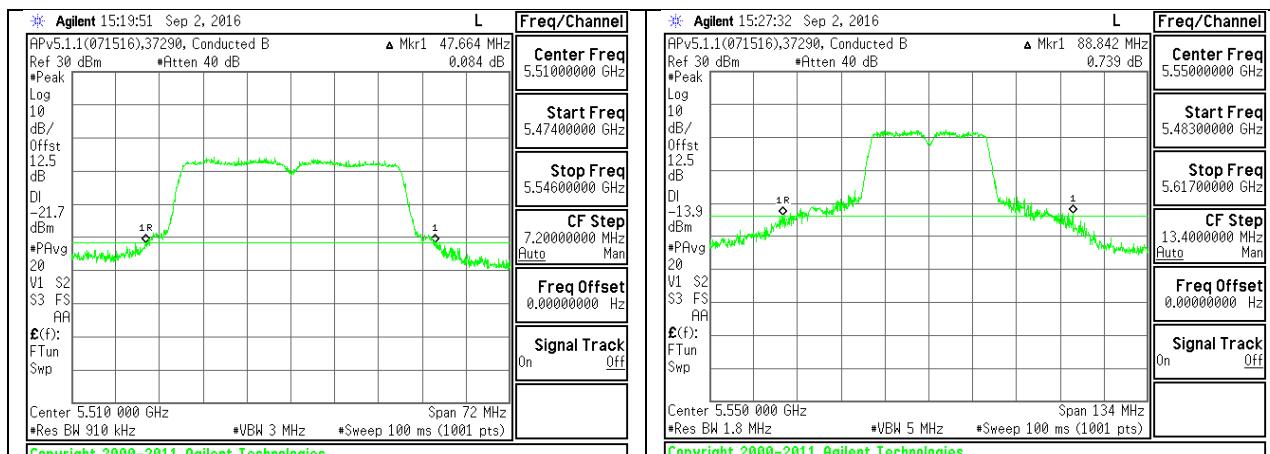
7.10.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

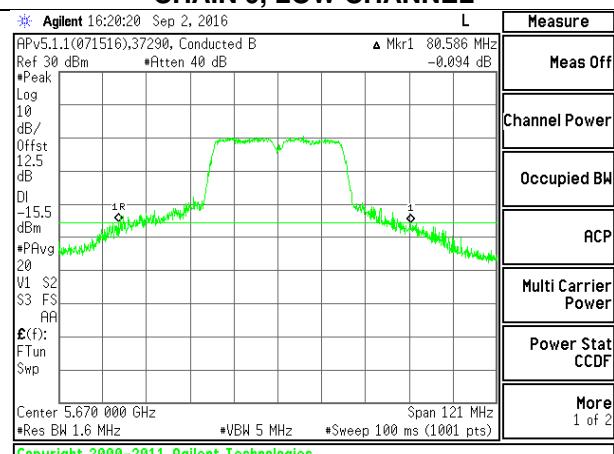
RESULTS

| Channel | Frequency (MHz) | 26 dB BW CHAIN 0 (MHz) | 26 dB BW CHAIN 1 (MHz) |
|---------|-----------------|------------------------|------------------------|
| Low | 5510 | 47.664 | 46.480 |
| Mid | 5550 | 88.842 | 94.950 |
| High | 5670 | 80.586 | 74.690 |



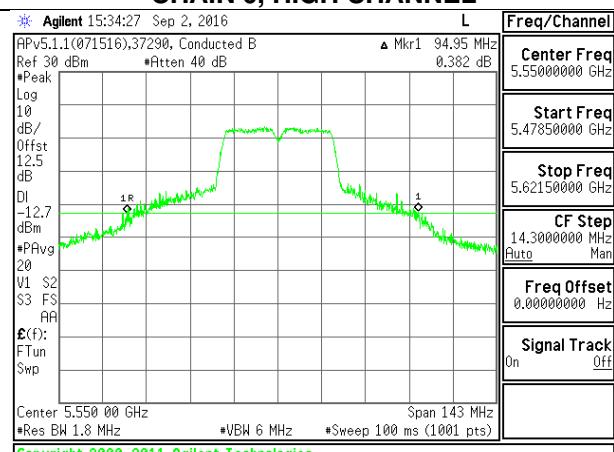
Copyright 2000-2011 Agilent Technologies

CHAIN 0, LOW CHANNEL



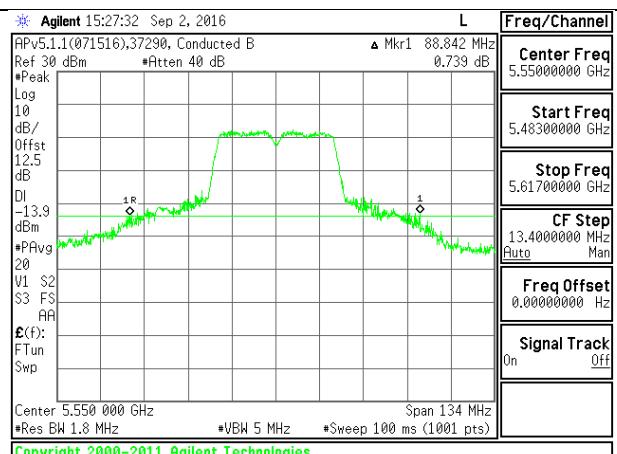
Copyright 2000-2011 Agilent Technologies

CHAIN 0, HIGH CHANNEL



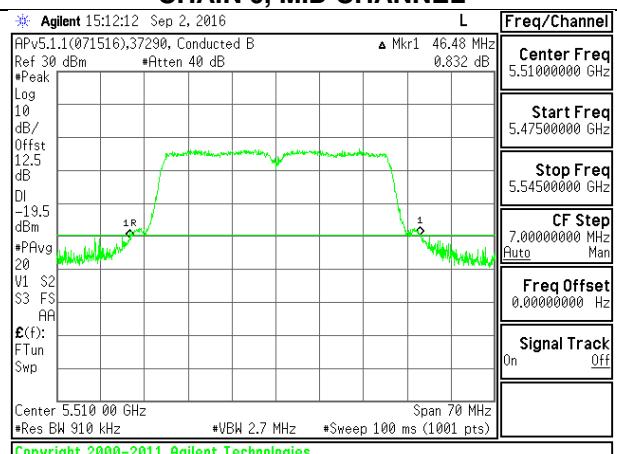
Copyright 2000-2011 Agilent Technologies

CHAIN 1, MID CHANNEL



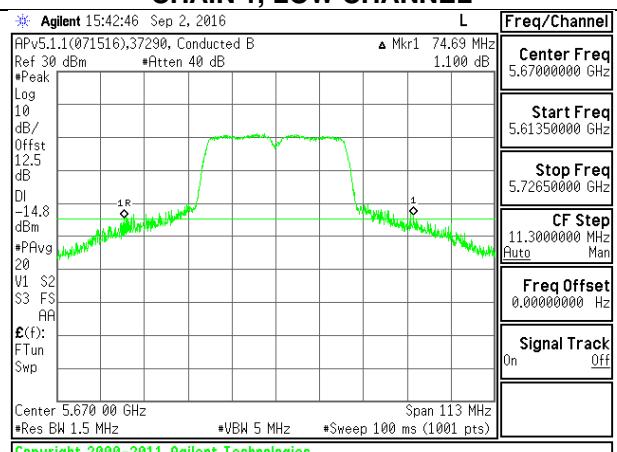
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CHAIN 0, MID CHANNEL



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CHAIN 1, LOW CHANNEL



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CHAIN 1, HIGH CHANNEL

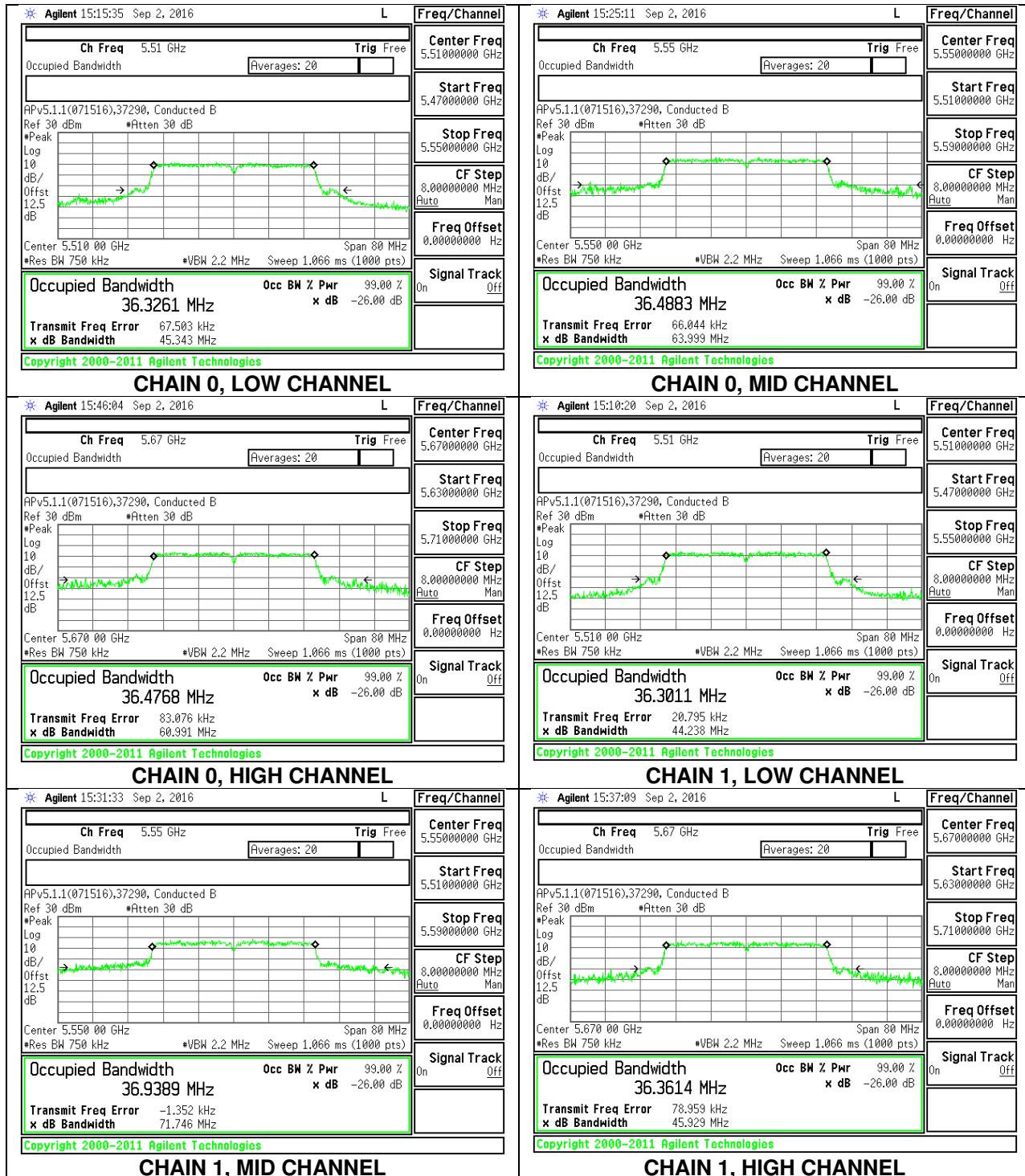
7.10.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) | 99% BW CHAIN 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5510 | 36.3261 | 36.3011 |
| Mid | 5550 | 36.4883 | 36.9389 |
| High | 5670 | 36.4768 | 36.3614 |



7.10.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 6.2.3 (1)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 4.00 | 4.00 | 4.00 |

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 4.00 | 4.00 | 7.01 |

RESULTS

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PSD (dBi) |
|---------|--------------------|-----------------------------|---------------------------|---|---|
| Low | 5510 | 46.480 | 36.3011 | 4.00 | 7.01 |
| Mid | 5550 | 88.842 | 36.4883 | 4.00 | 7.01 |
| High | 5670 | 74.690 | 36.3614 | 4.00 | 7.01 |

Limits

| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PSD Limit (dBm) | IC PSD Limit (dBm) | PSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|------------------------------|-----------------------------|-----------------------|
| Low | 5510 | 24.00 | 24.00 | 30.00 | 24.00 | 9.99 | 11.00 | 9.99 |
| Mid | 5550 | 24.00 | 24.00 | 30.00 | 24.00 | 9.99 | 11.00 | 9.99 |
| High | 5670 | 24.00 | 24.00 | 30.00 | 24.00 | 9.99 | 11.00 | 9.99 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

Output Power Results

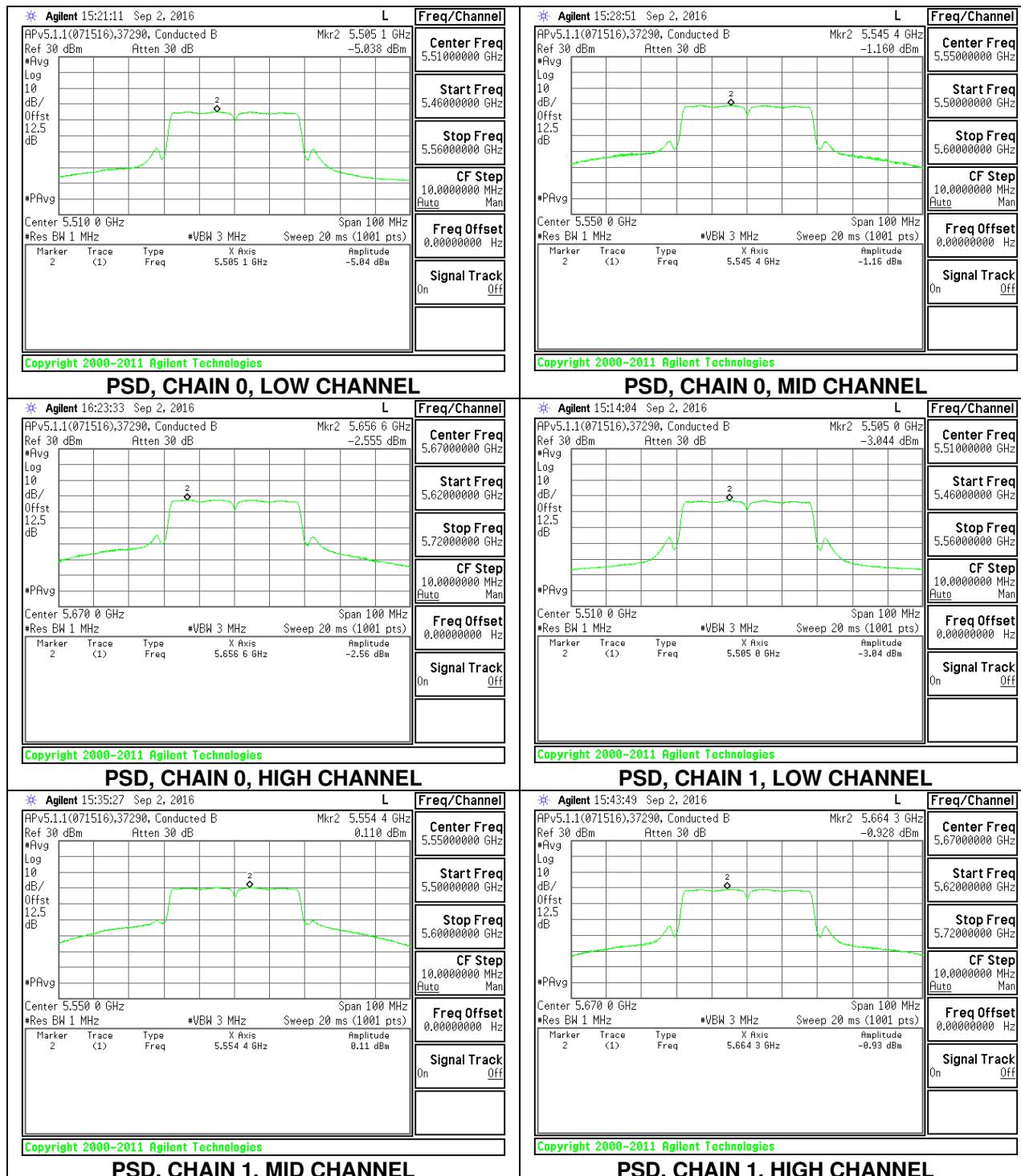
| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5510 | 9.60 | 11.54 | 13.69 | 24.00 | -10.31 |
| Mid | 5550 | 13.46 | 14.70 | 17.13 | 24.00 | -6.87 |
| High | 5670 | 12.40 | 13.50 | 16.00 | 24.00 | -8.00 |

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5510 | -5.038 | -3.044 | -0.75 | 9.99 | -10.74 |
| Mid | 5550 | -1.160 | 0.110 | 2.70 | 9.99 | -7.29 |
| High | 5670 | -2.555 | -0.928 | 1.51 | 9.99 | -8.48 |

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 9/2/16 |
|-----|-------|-------|--------|



7.11. 802.11a MODE IN THE 5.8 GHz BAND (Chain 0)

7.11.1. 6 dB BANDWIDTH

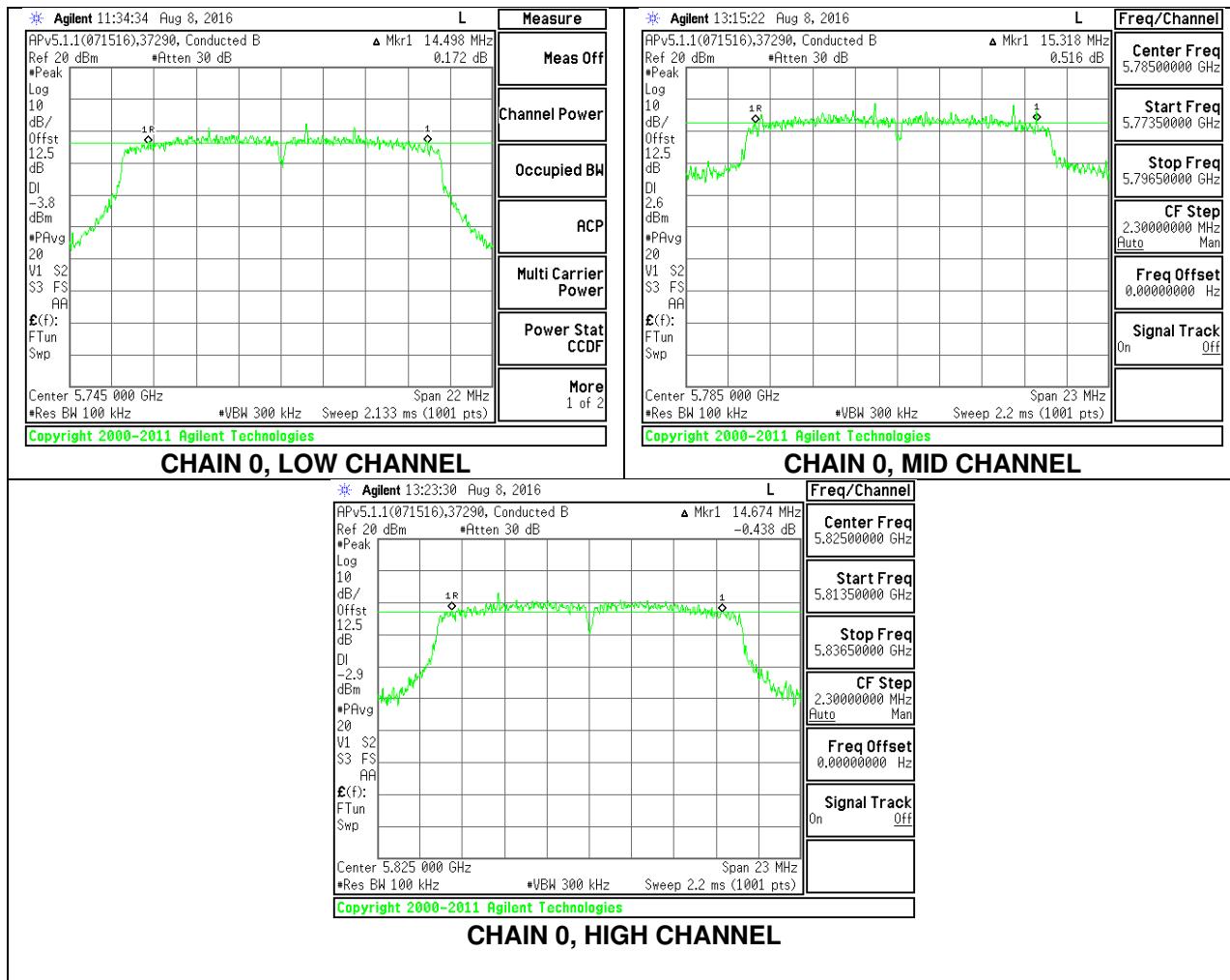
LIMITS

FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

| Channel | Frequency (MHz) | 6 dB BW CHAIN 0 (MHz) | Minimum Limit (MHz) |
|---------|-----------------|-----------------------|---------------------|
| Low | 5745 | 14.4980 | 0.5 |
| Mid | 5785 | 15.3180 | 0.5 |
| High | 5825 | 14.6740 | 0.5 |



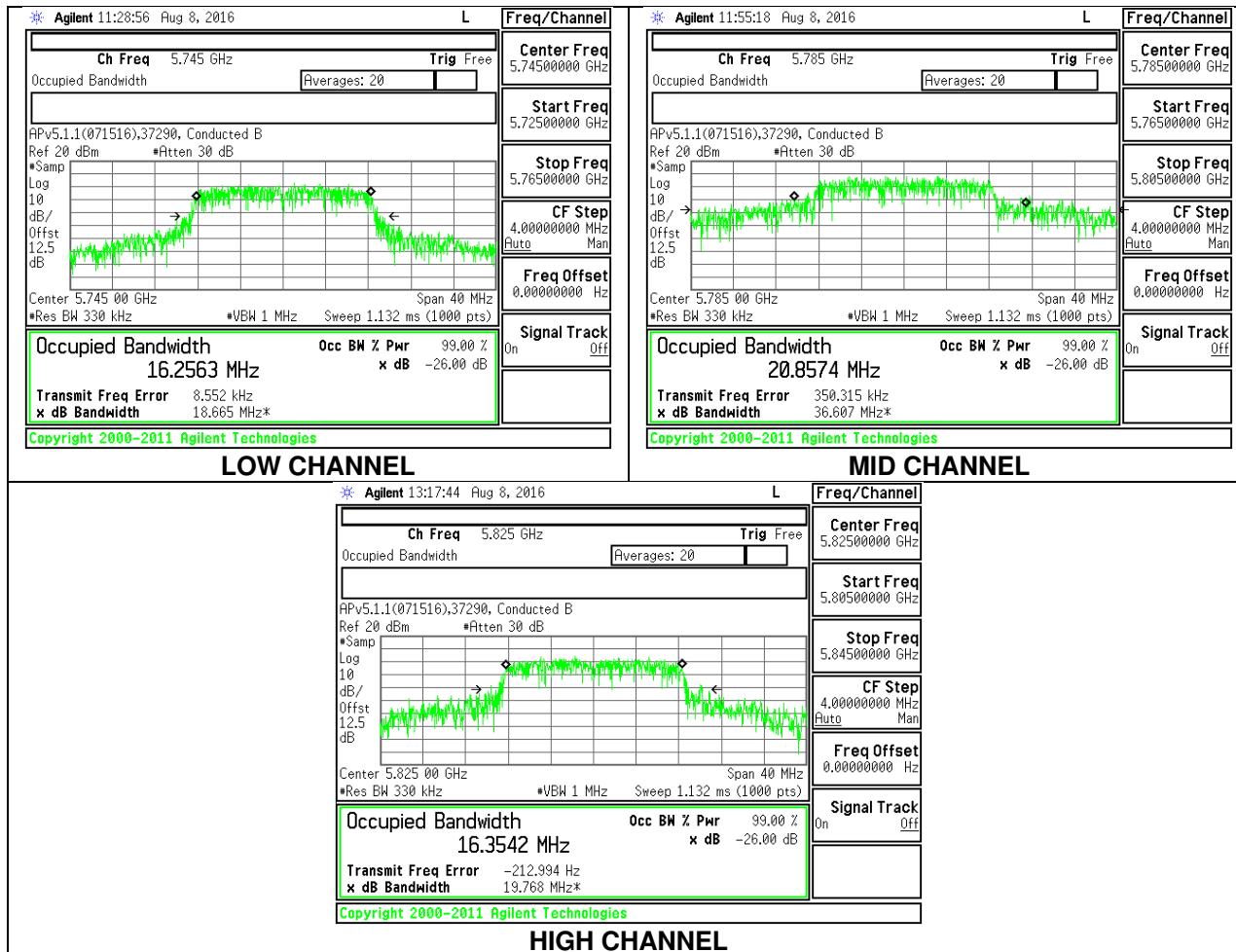
7.11.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW CHAIN 0 (MHz) |
|---------|-----------------|----------------------|
| Low | 5745 | 16.2563 |
| Mid | 5785 | 20.8574 |
| High | 5825 | 16.3542 |



7.11.3. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3), IC RSS-247 6.2.4 (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Antenna Gain and Limit

| Channel | Frequency (MHz) | Directional Gain for Power (dBi) | Power Limit (dBm) |
|---------|--------------------|---|-------------------------|
| Low | 5745 | 4.00 | 30.00 |
| Mid | 5785 | 4.00 | 30.00 |
| High | 5825 | 4.00 | 30.00 |

Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5745 | 12.60 | 12.60 | 30.00 | -17.40 |
| Mid | 5785 | 16.43 | 16.43 | 30.00 | -13.57 |
| High | 5825 | 14.37 | 14.37 | 30.00 | -15.63 |

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 8/8/16 |
|-----|-------|-------|--------|

7.11.4. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

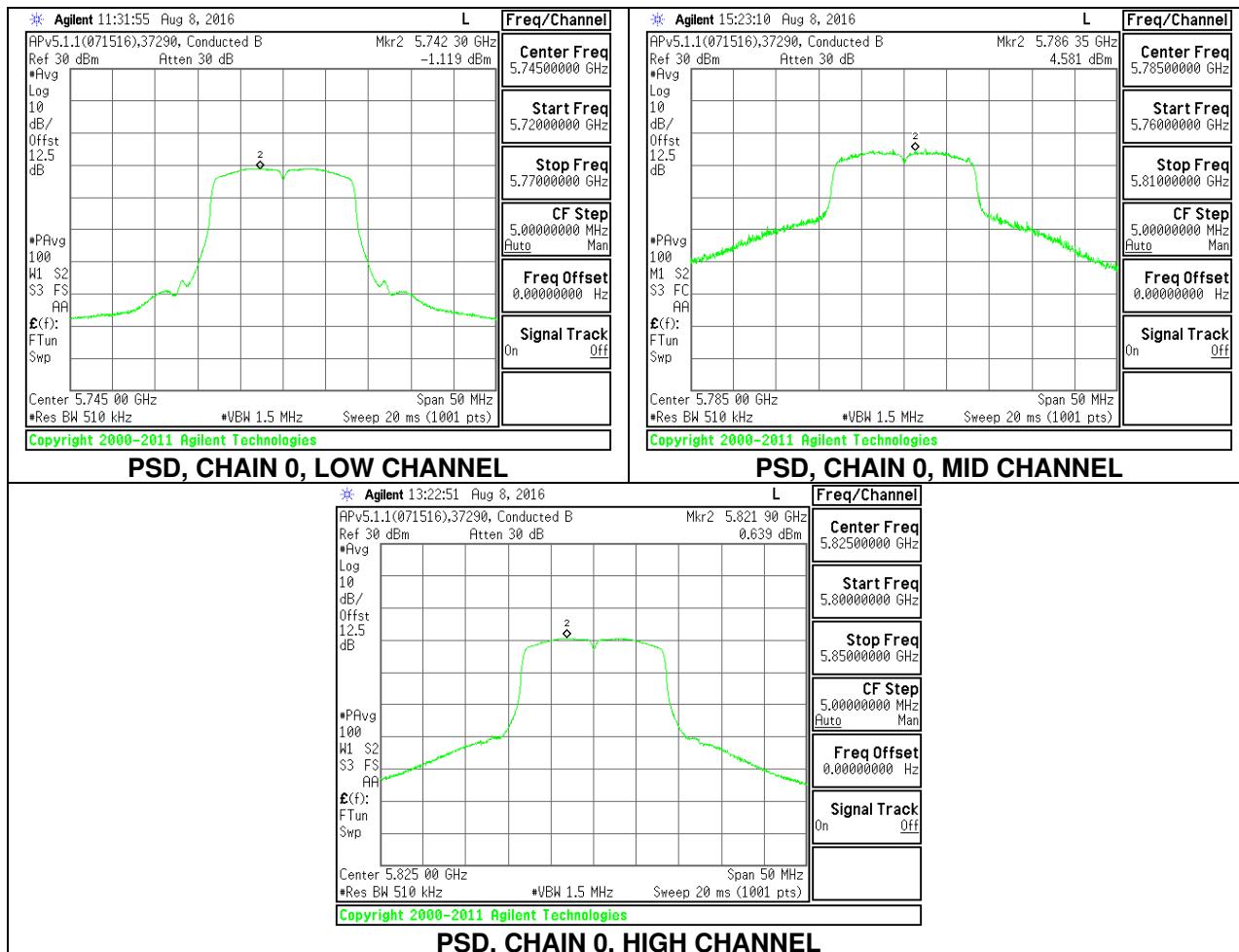
Antenna Gain and Limits

| Channel | Frequency (MHz) | Directional Gain (dBi) | PSD Limit (dBm) |
|---------|--------------------|------------------------------|-----------------------|
| Low | 5745 | 4.00 | 30.00 |
| Mid | 5785 | 4.00 | 30.00 |
| High | 5825 | 4.00 | 30.00 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.00 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5745 | -1.119 | -1.119 | 30.00 | -31.12 |
| Mid | 5785 | 4.581 | 4.581 | 30.00 | -25.42 |
| High | 5825 | 0.639 | 0.639 | 30.00 | -29.36 |



7.12. 802.11n HT20 MODE IN THE 5.8 GHz BAND (Chain 0 & 1)

7.12.1. 6 dB BANDWIDTH

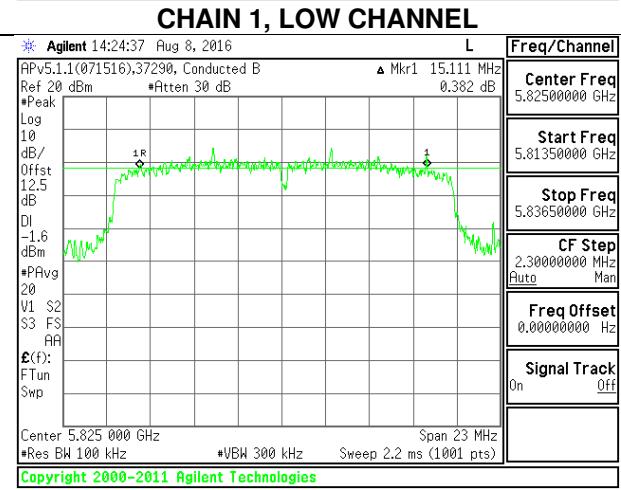
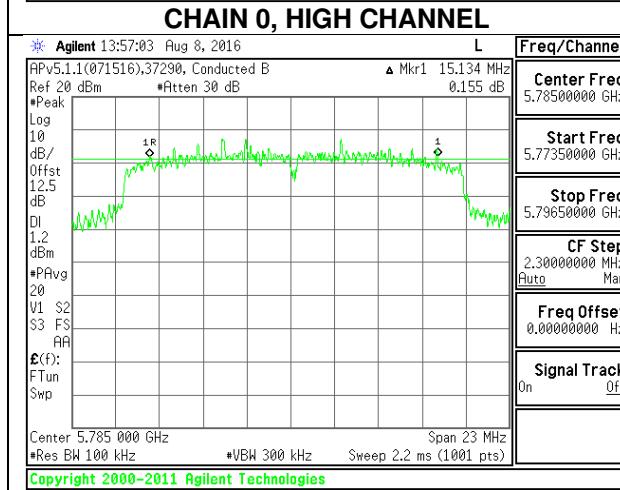
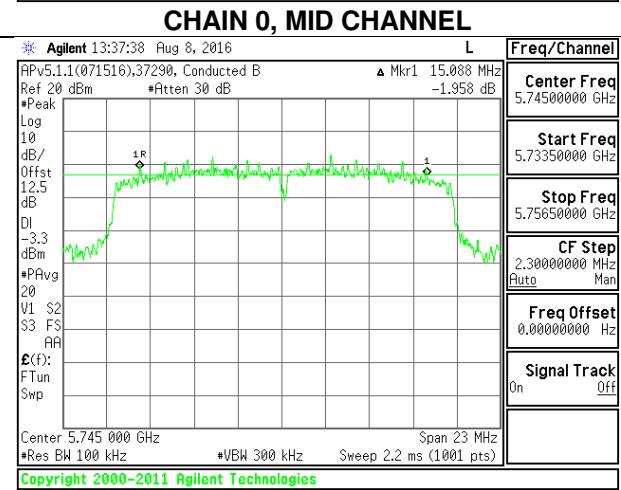
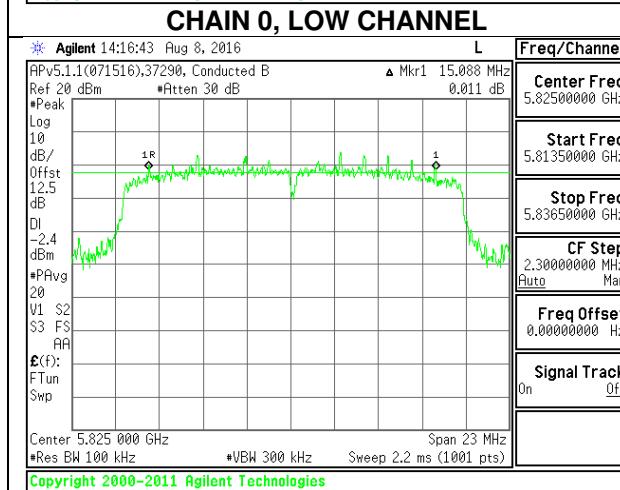
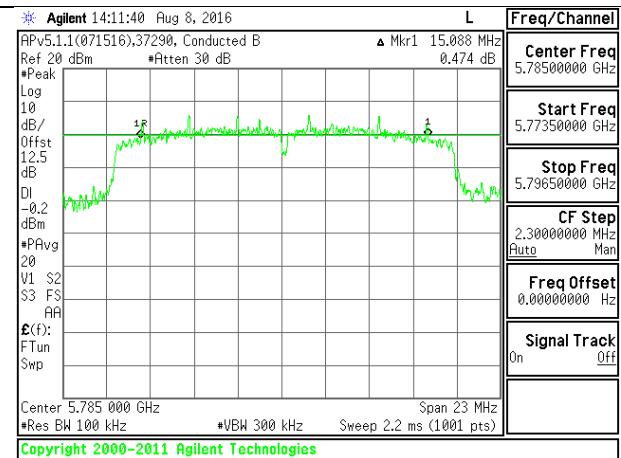
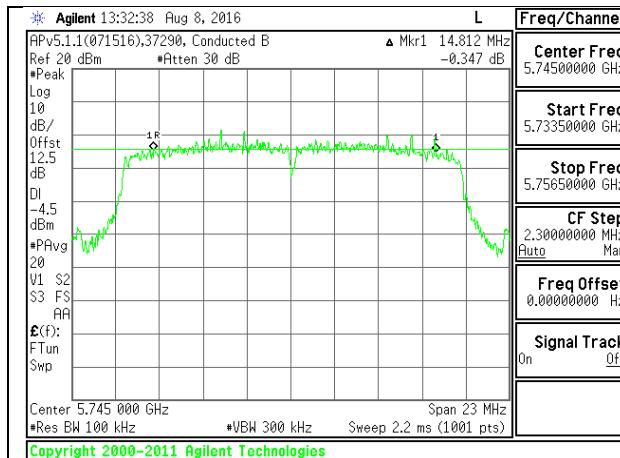
LIMITS

FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

| Channel | Frequency (MHz) | 6 dB BW Chain 0 (MHz) | 6 dB BW Chain 1 (MHz) | Minimum Limit (MHz) |
|---------|-----------------|-----------------------|-----------------------|---------------------|
| Low | 5745 | 14.812 | 15.088 | 0.5 |
| Mid | 5785 | 15.088 | 15.134 | 0.5 |
| High | 5825 | 15.088 | 15.111 | 0.5 |



CHAIN 0, HIGH CHANNEL

CHAIN 1, LOW CHANNEL

CHAIN 1, MID CHANNEL

CHAIN 1, HIGH CHANNEL

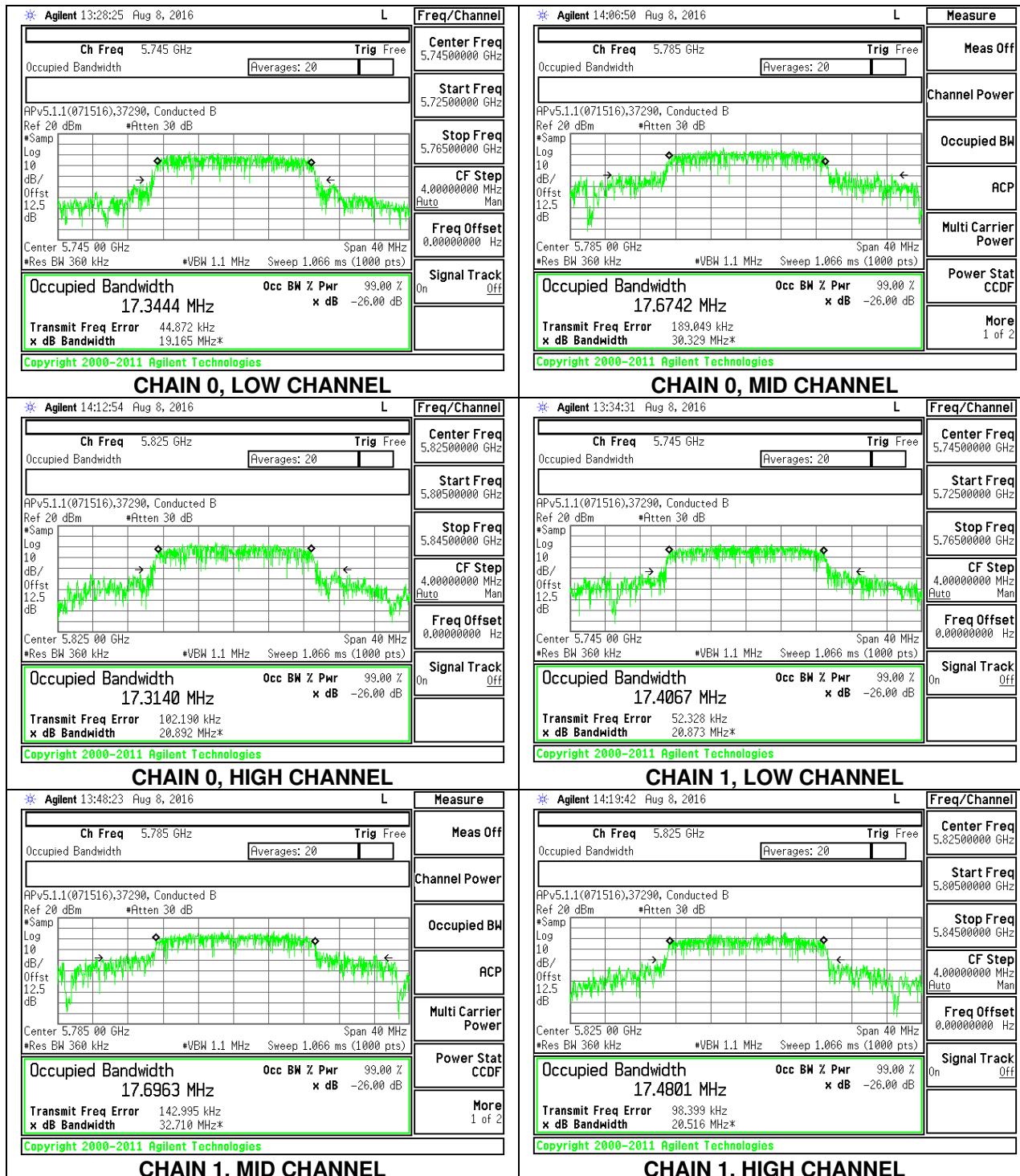
7.12.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5745 | 17.3444 | 17.4067 |
| Mid | 5785 | 17.6742 | 17.6963 |
| High | 5825 | 17.3140 | 17.4801 |



7.12.3. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3), IC RSS-247 6.2.4 (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|---|---|---|
| 4.00 | 4.00 | 4.00 |

RESULTS

Antenna Gain and Limit

| Channel | Frequency (MHz) | Directional Gain for Power (dBi) | Power Limit (dBm) |
|---------|--------------------|---|-------------------------|
| Low | 5745 | 4.00 | 30.00 |
| Mid | 5785 | 4.00 | 30.00 |
| High | 5825 | 4.00 | 30.00 |

Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5745 | 11.85 | 13.00 | 15.47 | 30.00 | -14.53 |
| Mid | 5785 | 16.63 | 17.34 | 20.01 | 30.00 | -9.99 |
| High | 5825 | 13.74 | 14.60 | 17.20 | 30.00 | -12.80 |

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|-----|-------|-------|--------|
| ID: | 37290 | Date: | 8/8/16 |
|-----|-------|-------|--------|

7.12.4. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|--|--|---|
| 4.00 | 4.00 | 7.01 |

RESULTS

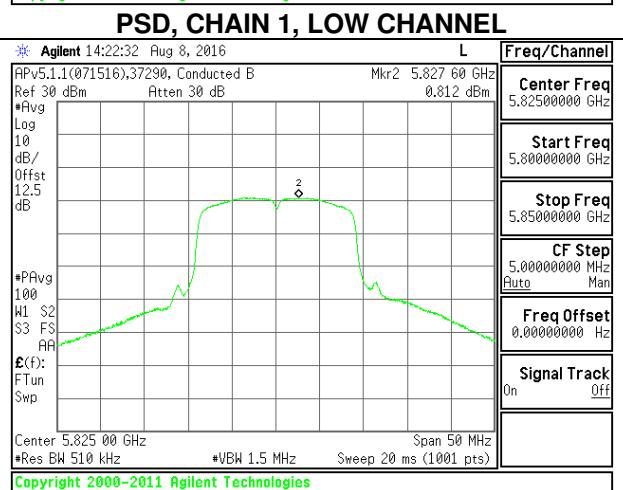
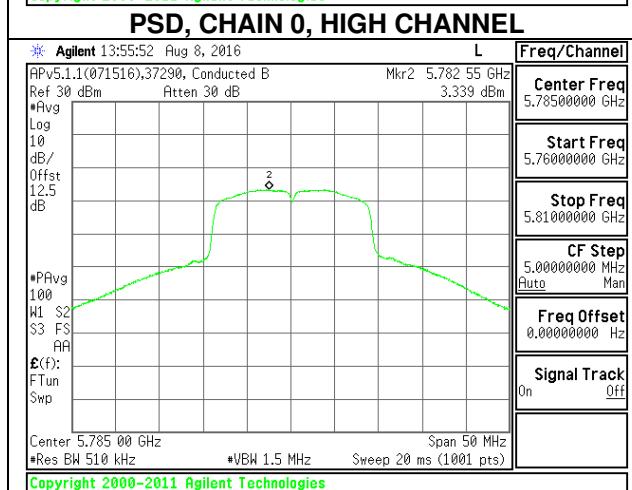
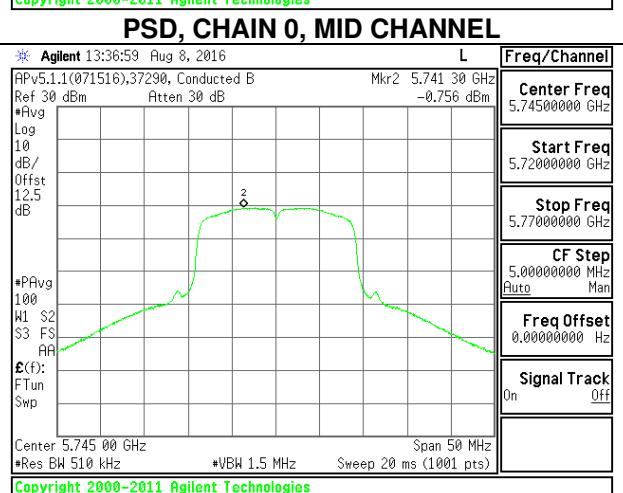
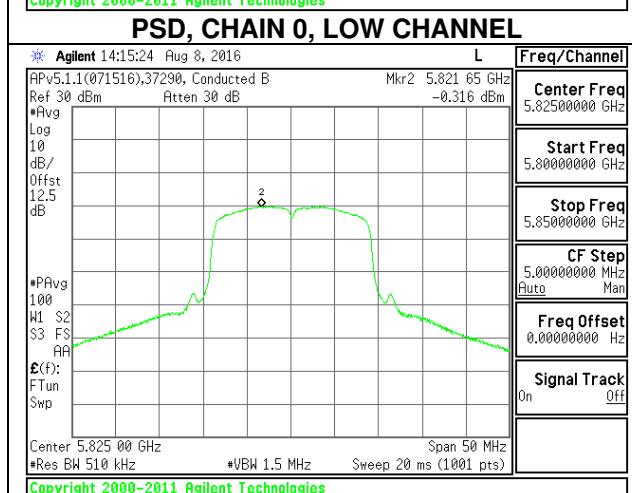
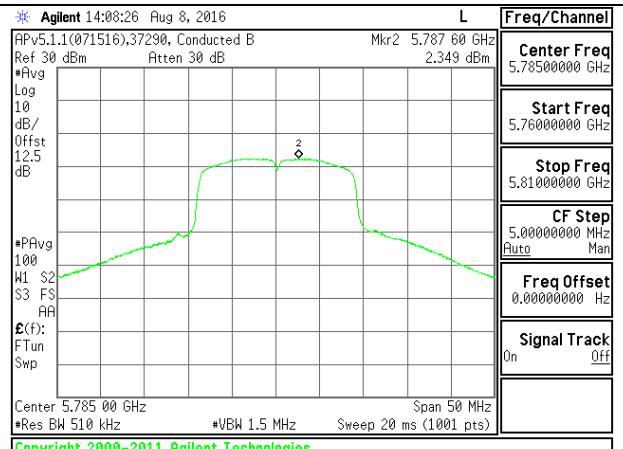
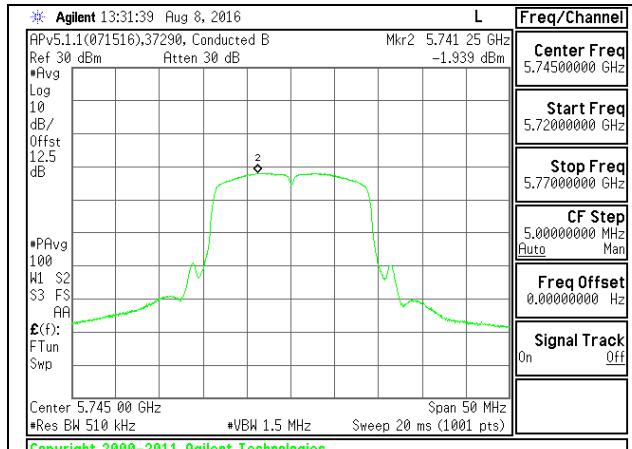
Antenna Gain and Limits

| Channel | Frequency (MHz) | Directional Gain (dBi) | PSD Limit (dBm) |
|---------|--------------------|------------------------------|-----------------------|
| Low | 5745 | 7.01 | 28.99 |
| Mid | 5785 | 7.01 | 28.99 |
| High | 5825 | 7.01 | 28.99 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.10 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5745 | -1.939 | -0.756 | 1.803 | 28.99 | -27.19 |
| Mid | 5785 | 2.349 | 3.339 | 5.982 | 28.99 | -23.01 |
| High | 5825 | -0.316 | 0.812 | 3.395 | 28.99 | -25.60 |



PSD, CHAIN 1, MID CHANNEL

PSD, CHAIN 1, HIGH CHANNEL

7.13. 802.11n HT40 MODE IN THE 5.8 GHz BAND (Chain 0 & 1)

7.13.1. 6 dB BANDWIDTH

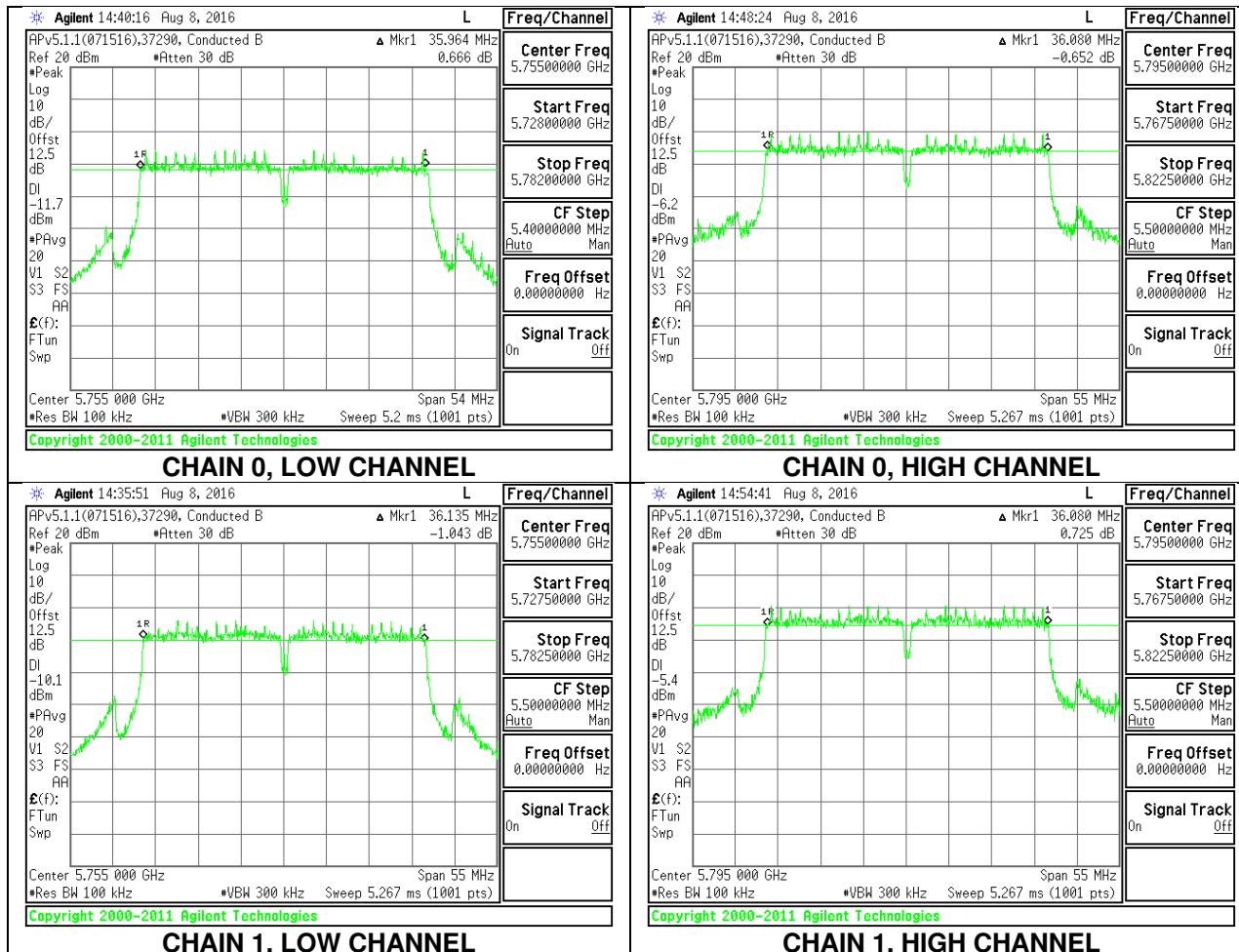
LIMITS

FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

| Channel | Frequency (MHz) | 6 dB BW Chain 0 (MHz) | 6 dB BW Chain 1 (MHz) | Minimum Limit (MHz) |
|---------|-----------------|-----------------------|-----------------------|---------------------|
| Low | 5755 | 35.964 | 36.135 | 0.5 |
| High | 5795 | 36.080 | 36.080 | 0.5 |



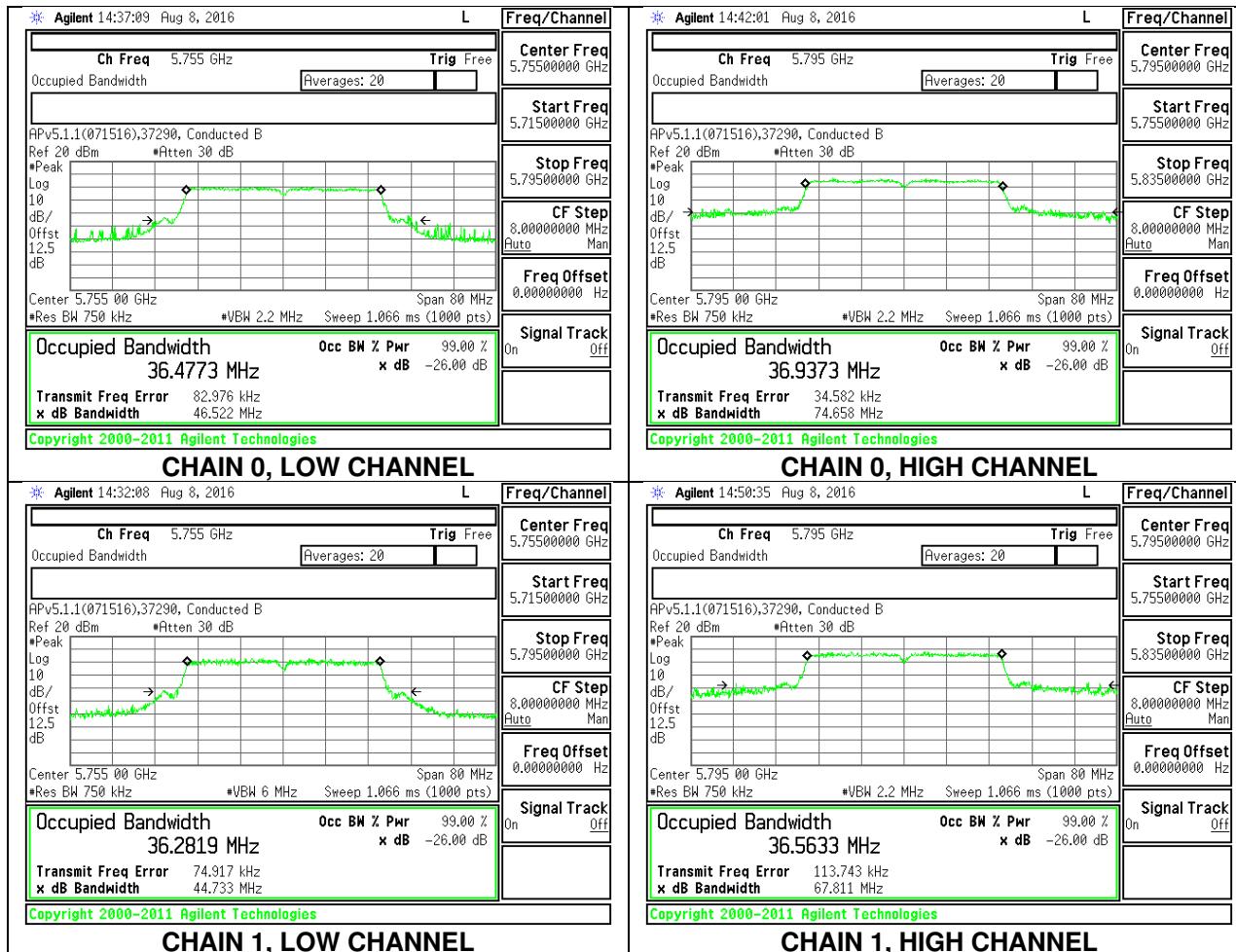
7.13.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency (MHz) | 99% BW Chain 0 (MHz) | 99% BW Chain 1 (MHz) |
|---------|-----------------|----------------------|----------------------|
| Low | 5755 | 36.4773 | 36.2819 |
| High | 5795 | 36.9373 | 36.5633 |



7.13.3. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3), IC RSS-247 6.2.4 (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 4.00 | 4.00 | 4.00 |

RESULTS

Antenna Gain and Limit

| Channel | Frequency (MHz) | Directional Gain (dBi) | Power Limit (dBm) |
|---------|--------------------|------------------------------|-------------------------|
| Low | 5755 | 4.00 | 30.00 |
| High | 5795 | 4.00 | 30.00 |

Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5755 | 7.74 | 9.80 | 11.90 | 30.00 | -18.10 |
| High | 5795 | 13.41 | 14.60 | 17.06 | 30.00 | -12.94 |

Note: the output power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

| | | | |
|------------|-------|--------------|--------|
| ID: | 37290 | Date: | 8/8/16 |
|------------|-------|--------------|--------|

7.13.4. Maximum Power Spectral Density (PSD)

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For PSD, the TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|
| 4.00 | 4.00 | 7.01 |

RESULTS

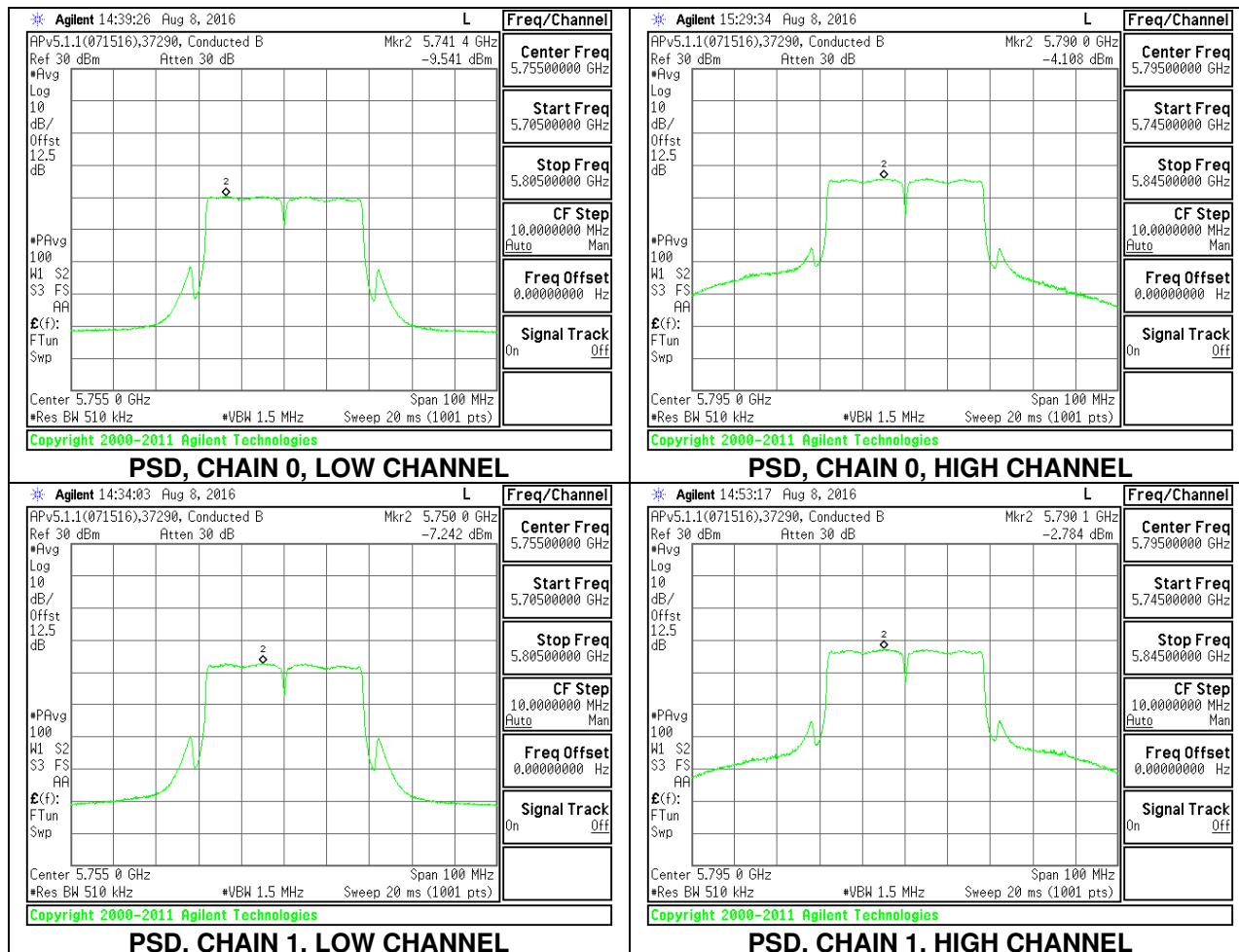
Antenna Gain and Limit

| Channel | Frequency (MHz) | Directional Gain (dBi) | PSD Limit (dBm) |
|---------|--------------------|------------------------------|-----------------------|
| Low | 5755 | 7.01 | 28.99 |
| High | 5795 | 7.01 | 28.99 |

| | | |
|--------------------|------|--|
| Duty Cycle CF (dB) | 0.17 | Included in Calculations of Corr'd PSD |
|--------------------|------|--|

PSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PSD (dBm) | Chain 1 Meas PSD (dBm) | Total Corr'd PSD (dBm) | PSD Limit (dBm) | PSD Margin (dB) |
|---------|--------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|-----------------------|
| Low | 5755 | -9.541 | -7.242 | -5.061 | 28.99 | -34.05 |
| High | 5795 | -4.108 | -2.784 | -0.215 | 28.99 | -29.21 |



8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209
RSS Gen

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 0.009-0.490 | 2400/F(kHz) @ 300m | 2400/F(kHz) @ 300m |
| 0.490-1.705 | 24000/F(kHz) @ 30m | 24000/F(kHz) @ 30m |
| 1.705-30.0 | 30 @ 30m | 30 @ 30m |
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

NOTE: KDB 937606 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

Note: The pre-scan measurements above 1GHz the VBW is set to 30 kHz.

The spectrum from 9 kHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

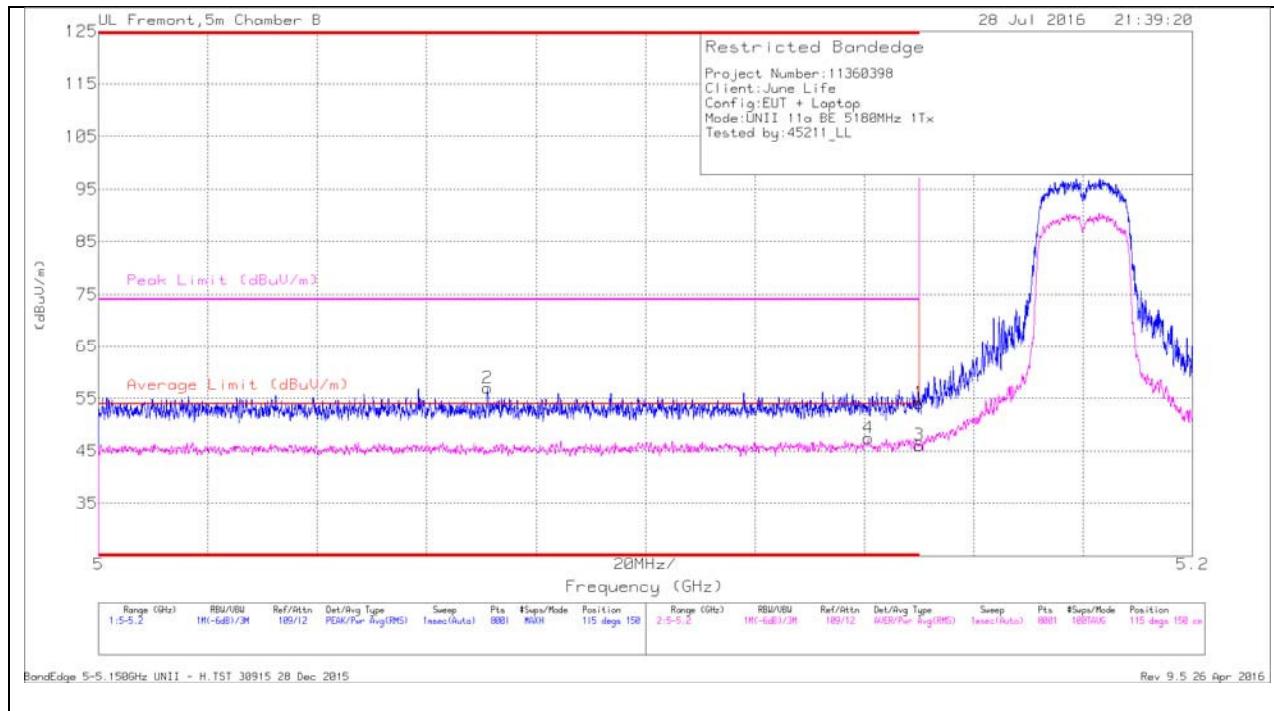
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULTS



Trace Markers

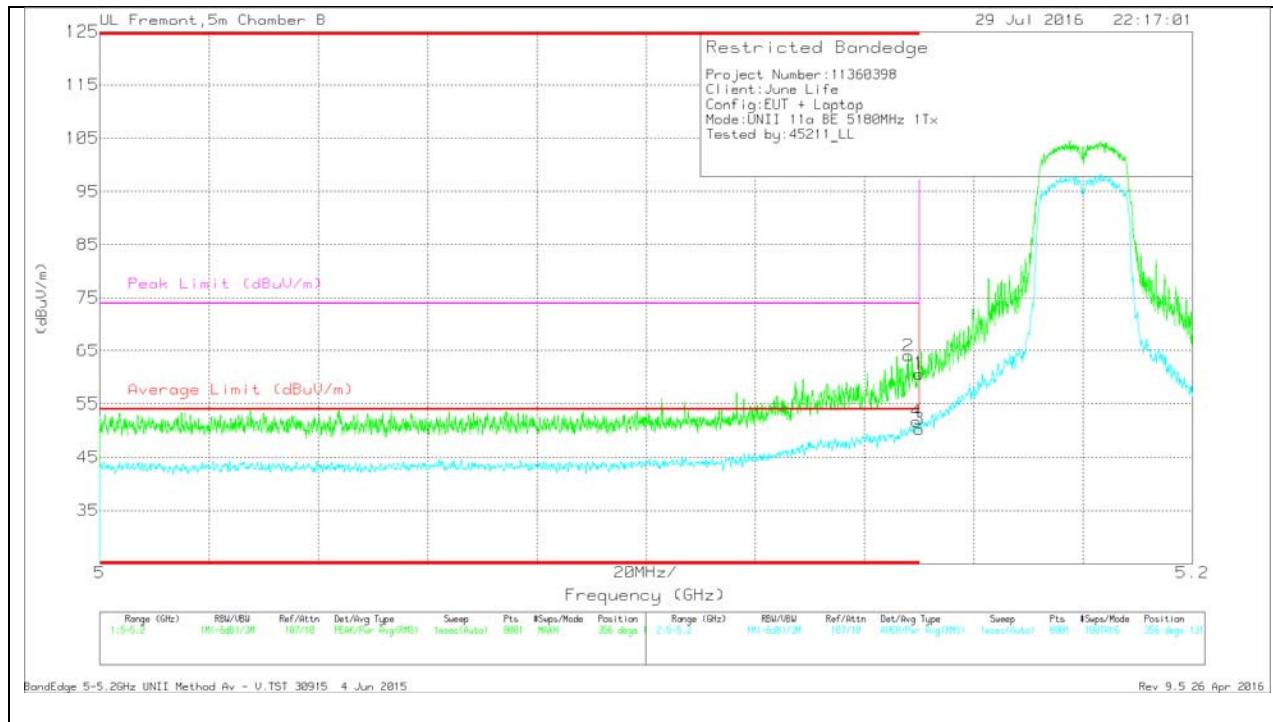
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cbl/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | Azimuth (Deg) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|---------------|-------------|----------|
| 2 | * 5.071 | 42.67 | Pk | 34.1 | -19.8 | 0 | 56.97 | - | - | 74 | -17.03 | 115 | 150 | H |
| 4 | * 5.141 | 32.58 | RMS | 34.2 | -19.4 | 0 | 47.38 | 54 | -6.62 | - | - | 115 | 150 | H |
| 1 | 5.15 | 39.85 | Pk | 34.2 | -19.9 | 0 | 54.15 | - | - | 74 | -19.85 | 115 | 150 | H |
| 3 | 5.15 | 31.8 | RMS | 34.2 | -19.9 | 0 | 46.1 | 54 | -7.9 | - | - | 115 | 150 | H |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | * 5.148 | 52.45 | Pk | 34.2 | -22.6 | 0 | 64.05 | - | - | 74 | -9.95 | 356 | 131 | V |
| 4 | * 5.149 | 40.07 | RMS | 34.2 | -22.6 | 0 | 51.67 | 54 | -2.33 | - | - | 356 | 131 | V |
| 1 | 5.15 | 49.01 | Pk | 34.2 | -22.6 | 0 | 60.61 | - | - | 74 | -13.39 | 356 | 131 | V |
| 3 | 5.15 | 38.65 | RMS | 34.2 | -22.6 | 0 | 50.25 | 54 | -3.75 | - | - | 356 | 131 | V |

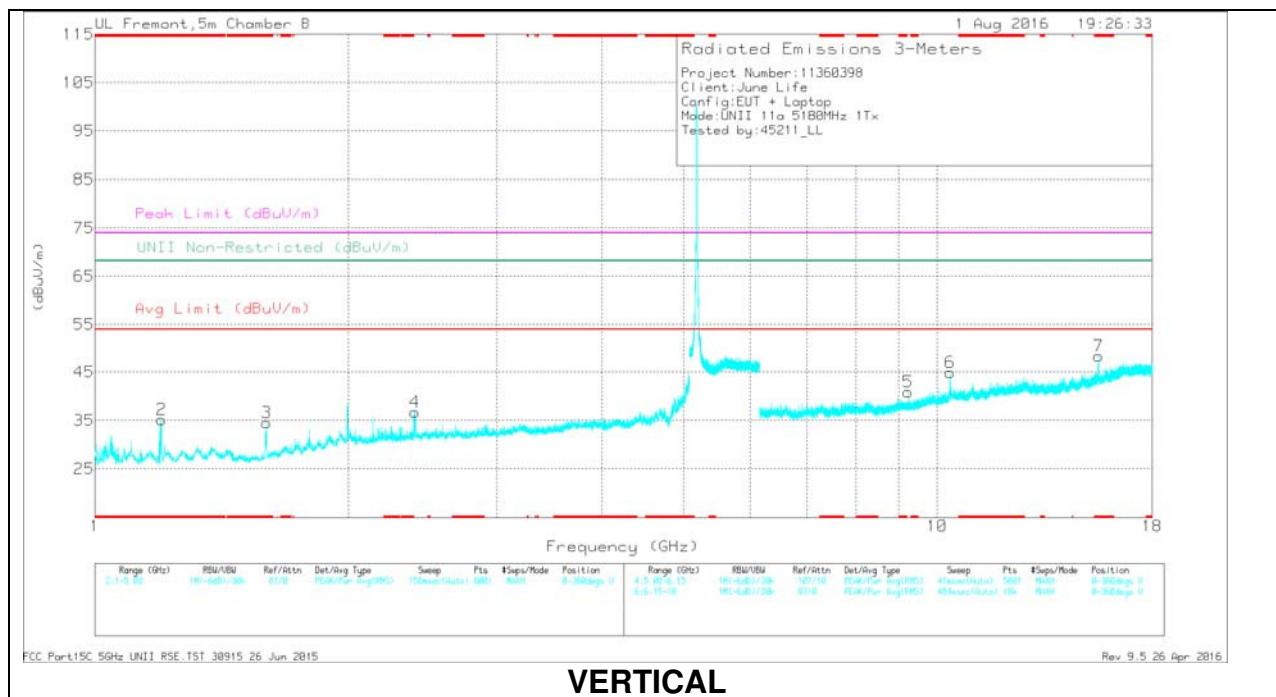
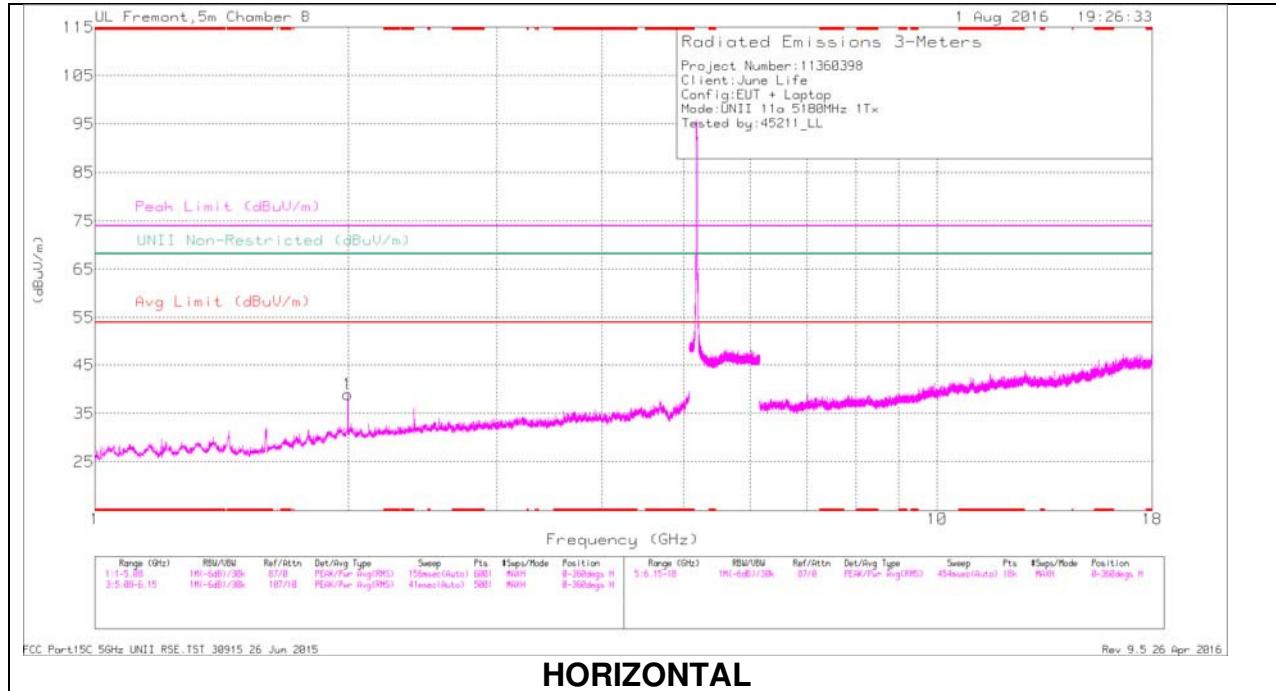
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



LOW CHANNEL DATA

Trace Markers

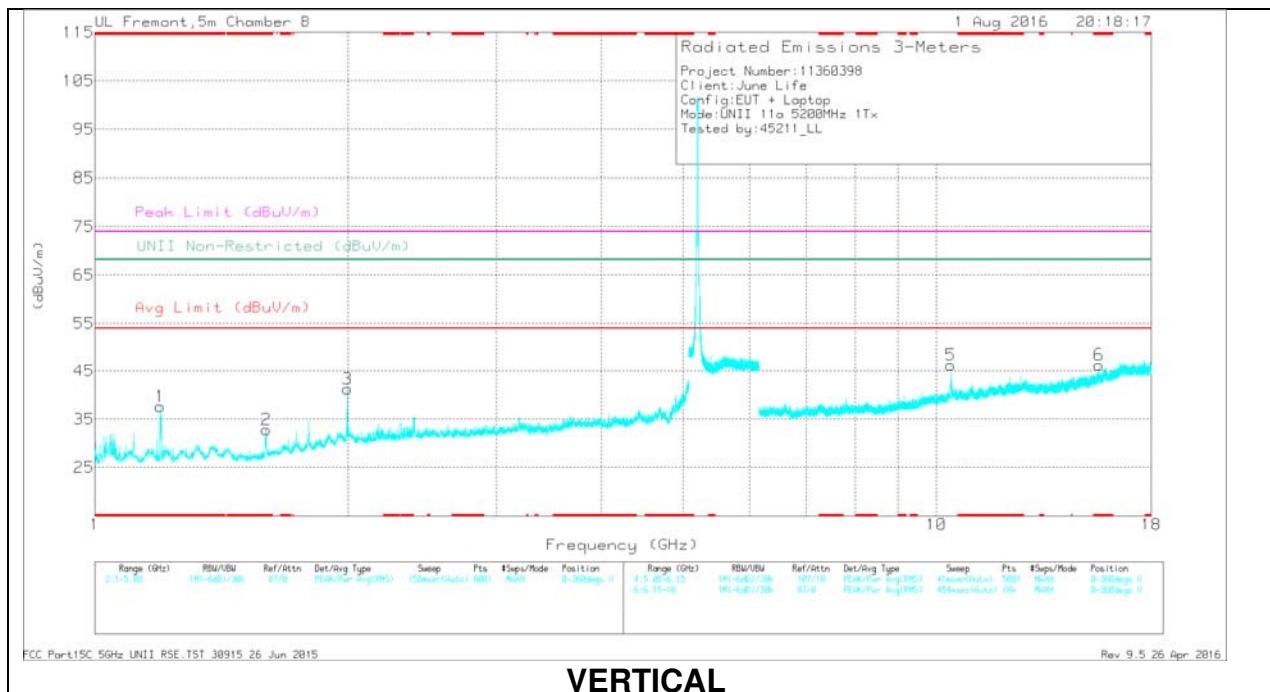
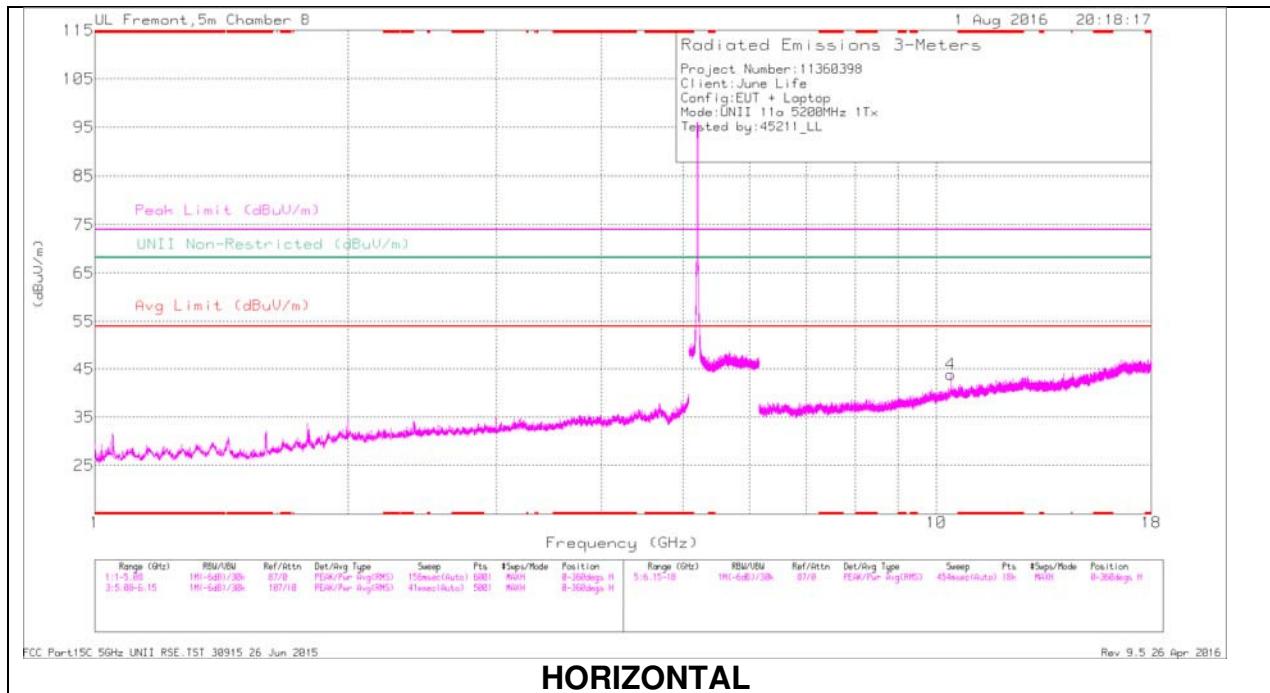
| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/Dif/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2 | * 1.197 | 53.4 | PK-U | 28.3 | -35.8 | 0 | 45.9 | - | - | 74 | -28.1 | - | - | 223 | 306 | V |
| | * 1.198 | 33.26 | ADR | 28.3 | -35.8 | 0 | 25.76 | 54 | -28.24 | - | - | - | - | 223 | 306 | V |
| 3 | * 1.595 | 47.97 | PK-U | 28.1 | -35.3 | 0 | 40.77 | - | - | 74 | -33.23 | - | - | 0 | 144 | V |
| | * 1.595 | 31.29 | ADR | 28.1 | -35.3 | 0 | 24.09 | 54 | -29.91 | - | - | - | - | 0 | 144 | V |
| 7 | * 15.54 | 37.47 | PK-U | 40.2 | -24 | 0 | 53.67 | - | - | 74 | -20.33 | - | - | 141 | 101 | V |
| | * 15.539 | 26.9 | ADR | 40.2 | -24 | 0 | 43.1 | 54 | -10.9 | - | - | - | - | 141 | 101 | V |
| 1 | 1.997 | 50.41 | PK-U | 31.5 | -34.1 | 0 | 47.81 | - | - | - | - | 68.2 | -20.39 | 250 | 209 | H |
| 4 | 2.398 | 46.27 | PK-U | 32.2 | -34.7 | 0 | 43.77 | - | - | - | - | 68.2 | -24.43 | 351 | 269 | V |
| 5 | 9.226 | 35.54 | PK-U | 36.4 | -27.6 | 0 | 44.34 | - | - | - | - | 68.2 | -23.86 | 215 | 296 | V |
| 6 | 10.357 | 41.44 | PK-U | 37.6 | -26.1 | 0 | 52.94 | - | - | - | - | 68.2 | -15.26 | 153 | 232 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



MID CHANNEL DATA

Trace Markers

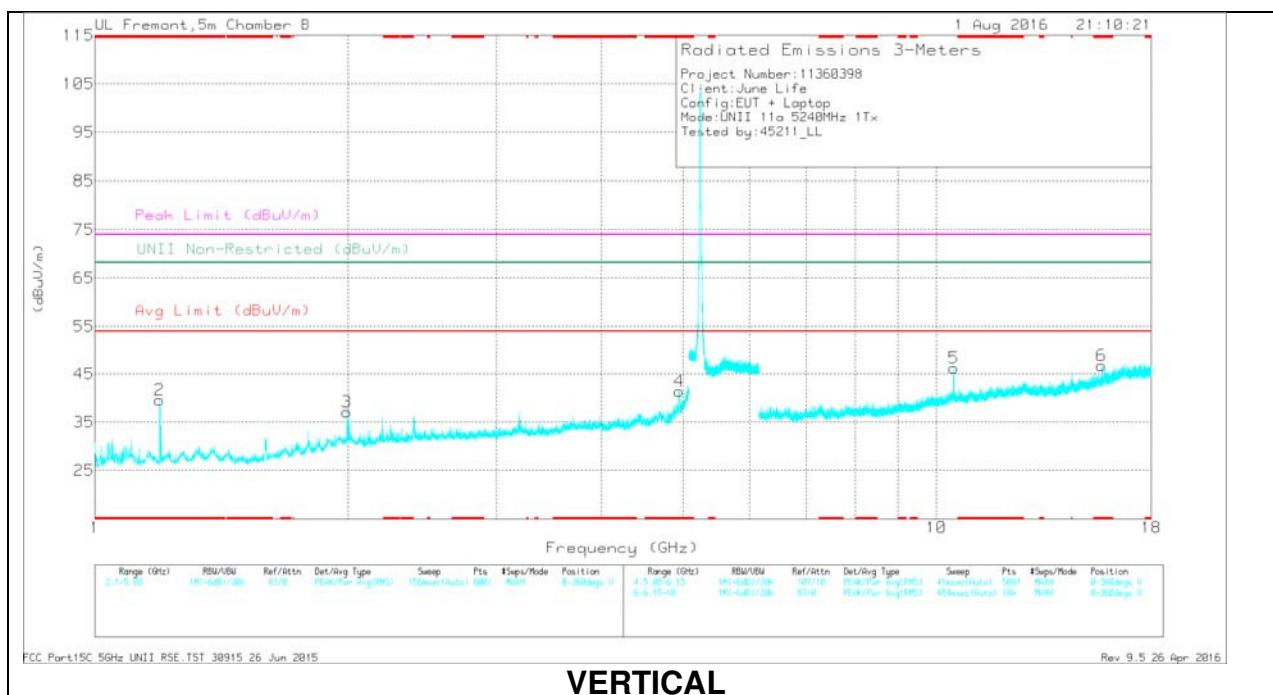
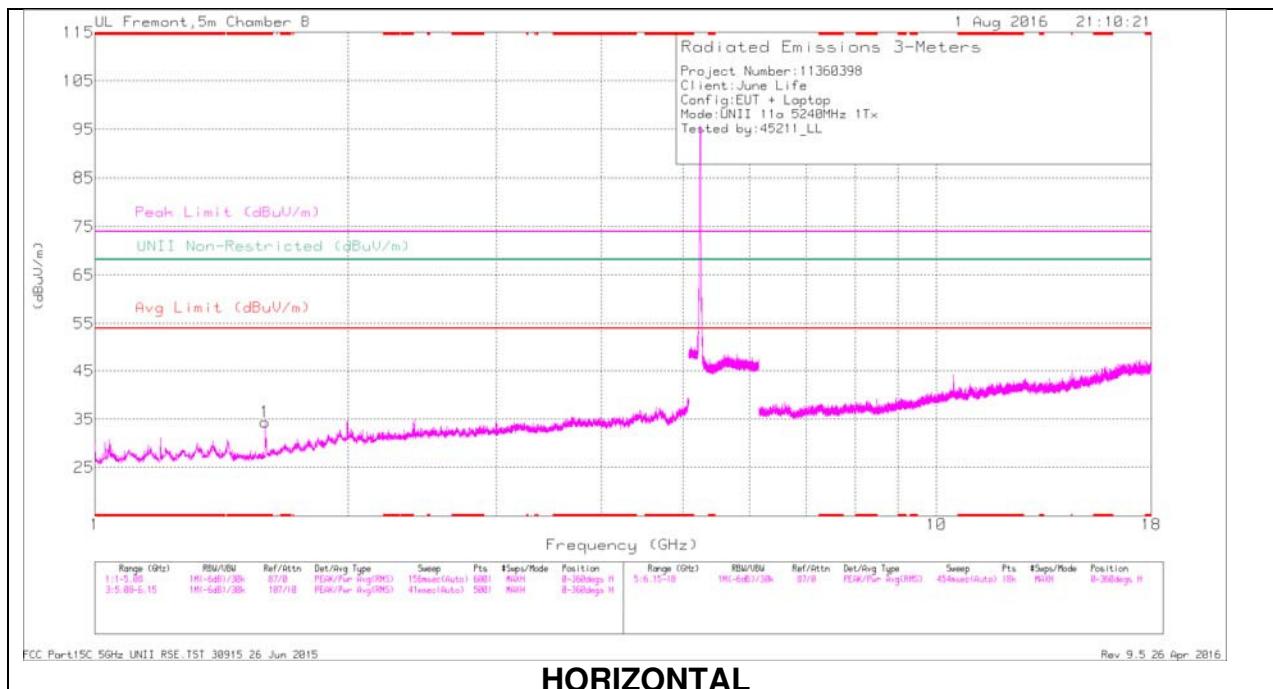
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Dst | AF1345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|--------------|--------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.198 | 53.36 | PK-U | 28.3 | -35.8 | 0 | 45.86 | - | - | 74 | -28.14 | - | - | 223 | 364 | V |
| | * 1.196 | 32.39 | ADR | 28.3 | -35.8 | 0 | 24.89 | 54 | -29.11 | - | - | - | - | 223 | 364 | V |
| 2 | * 1.6 | 48.82 | PK-U | 28.1 | -35.1 | 0 | 41.82 | - | - | 74 | -32.18 | - | - | 9 | 257 | V |
| | * 1.599 | 31.87 | ADR | 28.1 | -35.1 | 0 | 24.87 | 54 | -29.13 | - | - | - | - | 9 | 257 | V |
| 6 | * 15.59 | 39.42 | PK-U | 40.3 | -24.5 | 0 | 55.22 | - | - | 74 | -18.78 | - | - | 167 | 101 | V |
| | * 15.6 | 28.55 | ADR | 40.3 | -24.5 | 0 | 44.35 | 54 | -9.65 | - | - | - | - | 167 | 101 | V |
| 3 | 1.999 | 52.52 | PK-U | 31.5 | -34.2 | 0 | 49.82 | - | - | - | - | 68.2 | -18.38 | 236 | 218 | V |
| 4 | 10.402 | 38.21 | PK-U | 37.6 | -25.6 | 0 | 50.21 | - | - | - | - | 68.2 | -17.99 | 161 | 101 | H |
| 5 | 10.404 | 43.35 | PK-U | 37.6 | -25.6 | 0 | 55.35 | - | - | - | - | 68.2 | -12.85 | 157 | 221 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/Dcf/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.595 | 48.97 | PK-U | 28.1 | -35.2 | 0 | 41.87 | - | - | 74 | -32.13 | - | - | 169 | 257 | H |
| | * 1.593 | 32.55 | ADR | 28.1 | -35.3 | 0 | 25.35 | 54 | -28.65 | - | - | - | - | 169 | 257 | H |
| 2 | * 1.197 | 53.35 | PK-U | 28.3 | -35.8 | 0 | 45.85 | - | - | 74 | -28.15 | - | - | 219 | 298 | V |
| | * 1.198 | 33.64 | ADR | 28.3 | -35.8 | 0 | 26.14 | 54 | -27.86 | - | - | - | - | 219 | 298 | V |
| 4 | * 4.938 | 45.55 | PK-U | 33.9 | -31.8 | 0 | 47.65 | - | - | 74 | -26.35 | - | - | 157 | 101 | V |
| | * 4.943 | 35.82 | ADR | 33.9 | -31.7 | 0 | 38.02 | 54 | -15.98 | - | - | - | - | 157 | 101 | V |
| 6 | * 15.722 | 38.6 | PK-U | 40.5 | -24.5 | 0 | 54.6 | - | - | 74 | -19.4 | - | - | 160 | 206 | V |
| | * 15.721 | 27.02 | ADR | 40.5 | -24.5 | 0 | 43.02 | 54 | -10.98 | - | - | - | - | 160 | 206 | V |
| 3 | 1.991 | 51.26 | PK-U | 31.4 | -34 | 0 | 48.66 | - | - | - | - | 68.2 | -19.54 | 175 | 352 | V |
| 5 | 10.481 | 44.3 | PK-U | 37.7 | -25.8 | 0 | 56.2 | - | - | - | - | 68.2 | -12 | 155 | 142 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

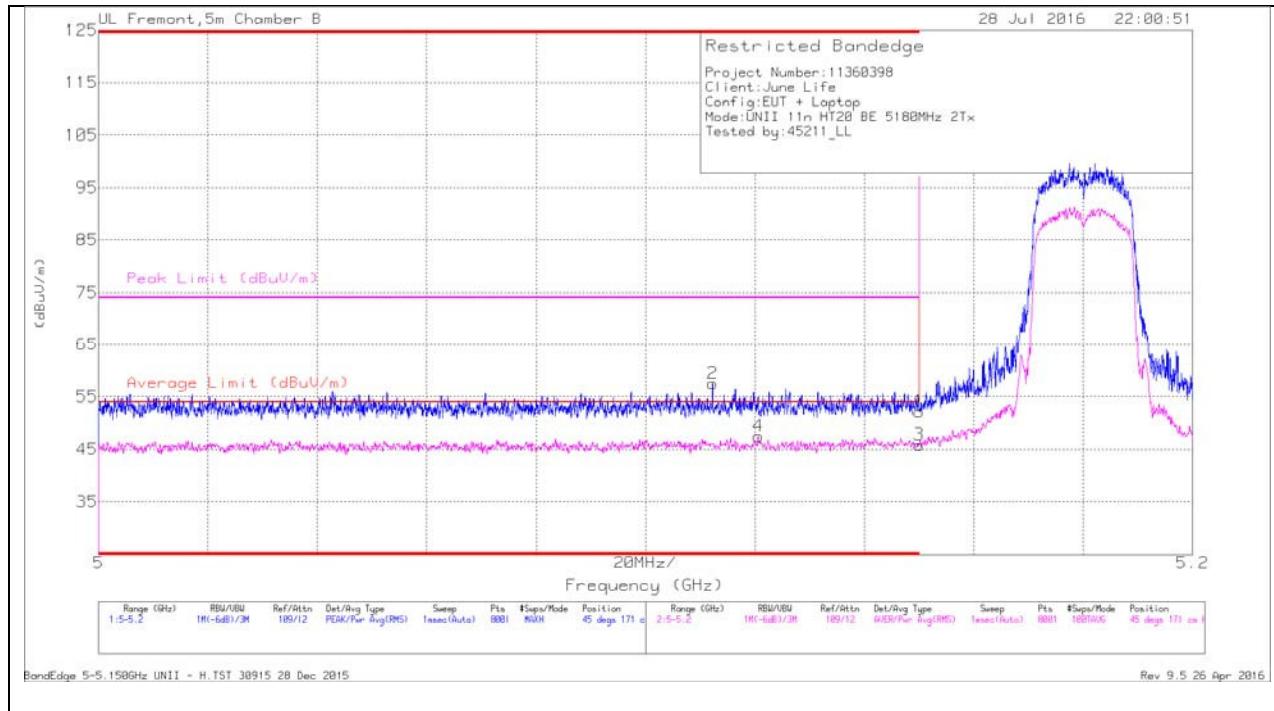
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULTS



Trace Markers

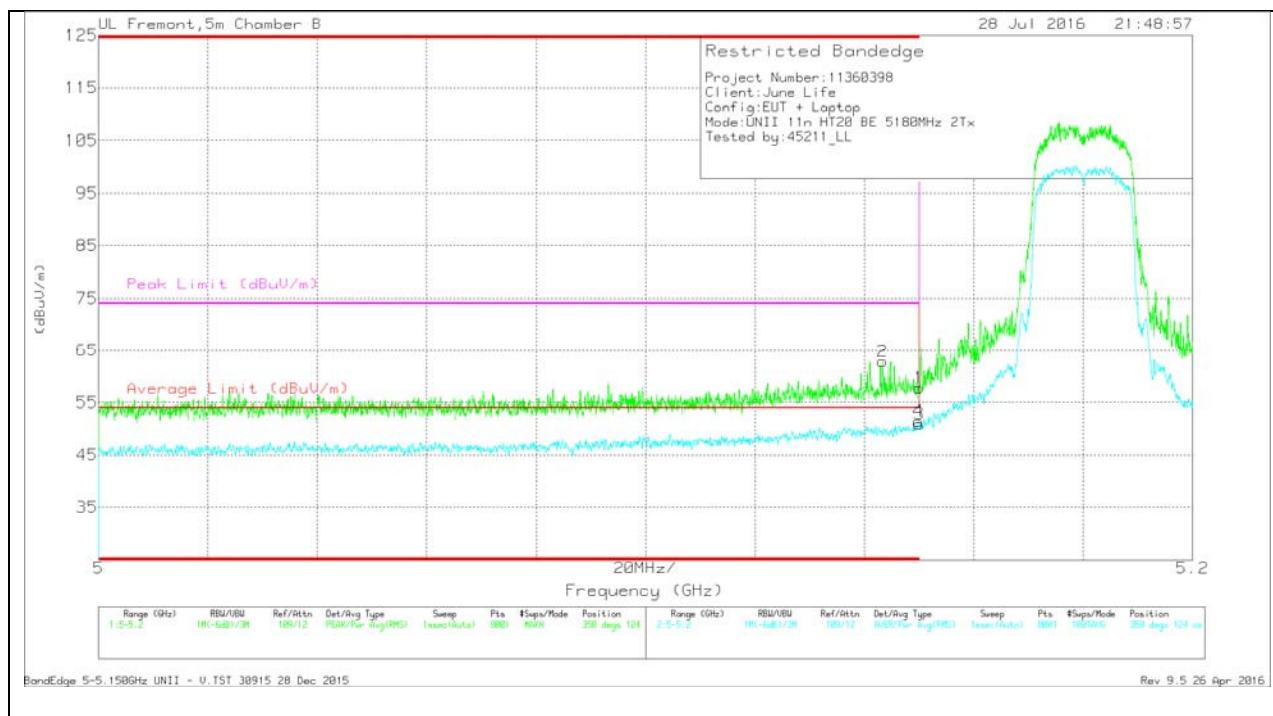
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|--------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | * 5.112 | 43.08 | Pk | 34.1 | -19.7 | 0 | 57.48 | - | - | 74 | -16.52 | 45 | 171 | H |
| 4 | * 5.121 | 32.6 | RMS | 34.1 | -19.4 | .1 | 47.4 | 54 | -6.6 | - | - | 45 | 171 | H |
| 1 | 5.15 | 37.82 | Pk | 34.2 | -19.9 | 0 | 52.12 | - | - | 74 | -21.88 | 45 | 171 | H |
| 3 | 5.15 | 31.44 | RMS | 34.2 | -19.9 | .1 | 45.84 | 54 | -8.16 | - | - | 45 | 171 | H |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | * 5.143 | 48.35 | Pk | 34.2 | -19.7 | 0 | 62.85 | - | - | 74 | -11.15 | 358 | 124 | V |
| 4 | * 5.15 | 36.99 | RMS | 34.2 | -19.9 | .1 | 51.39 | 54 | -2.61 | - | - | 358 | 124 | V |
| 1 | 5.15 | 43.44 | Pk | 34.2 | -19.9 | 0 | 57.74 | - | - | 74 | -16.26 | 358 | 124 | V |
| 3 | 5.15 | 36.49 | RMS | 34.2 | -19.9 | .1 | 50.89 | 54 | -3.11 | - | - | 358 | 124 | V |

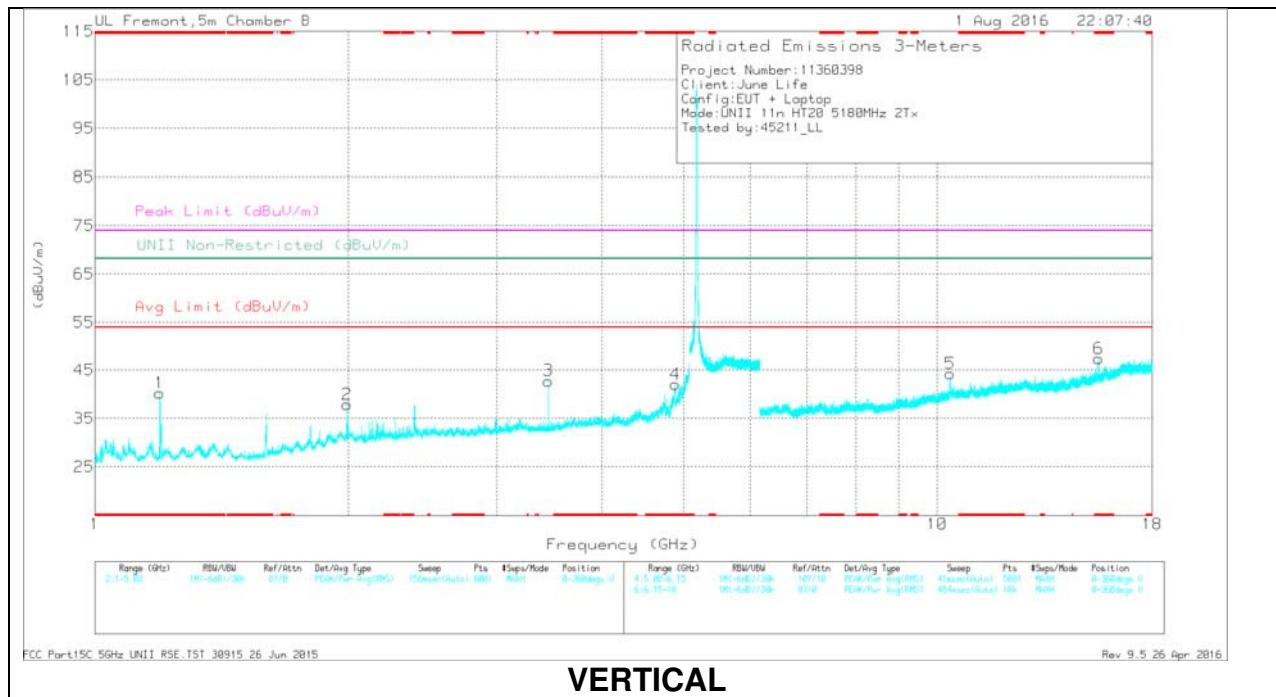
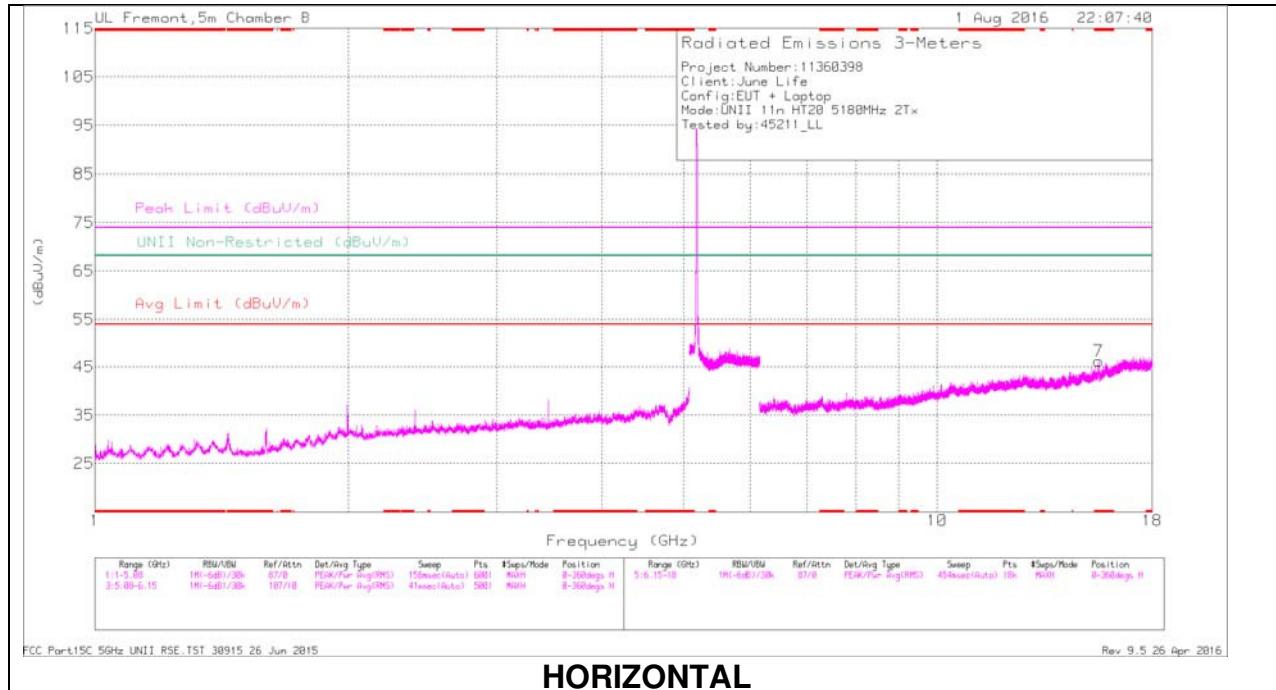
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



LOW CHANNEL DATA

Trace Markers

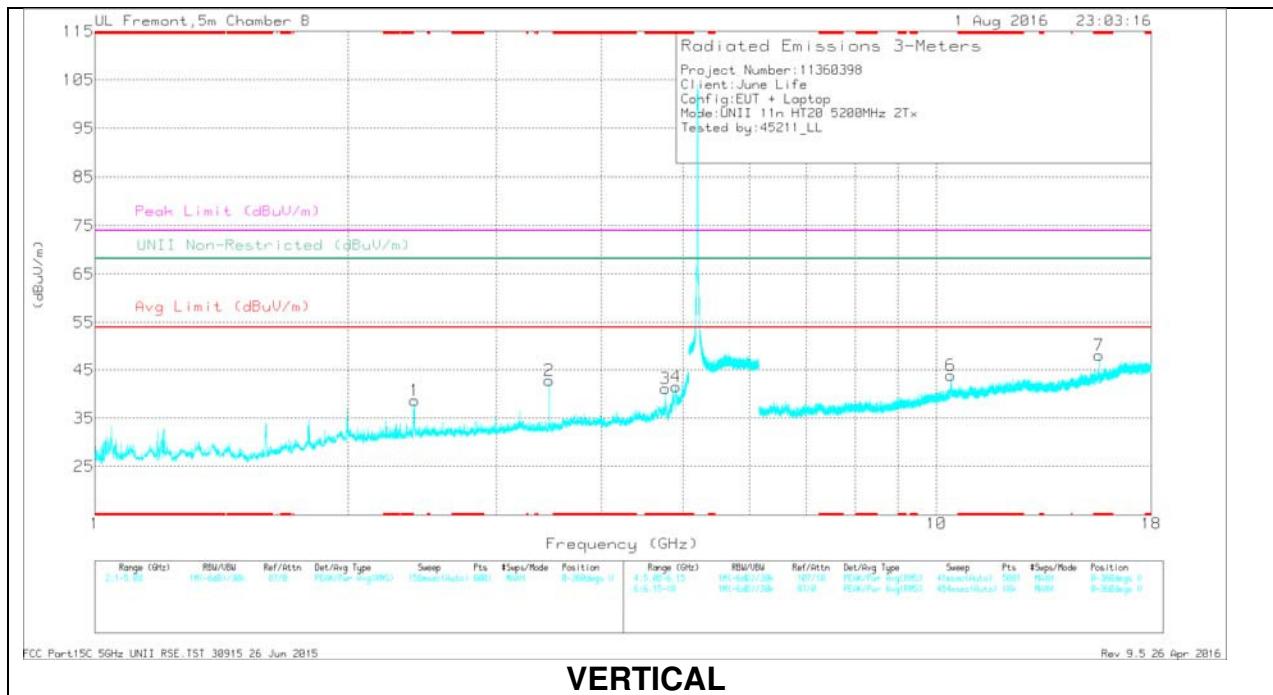
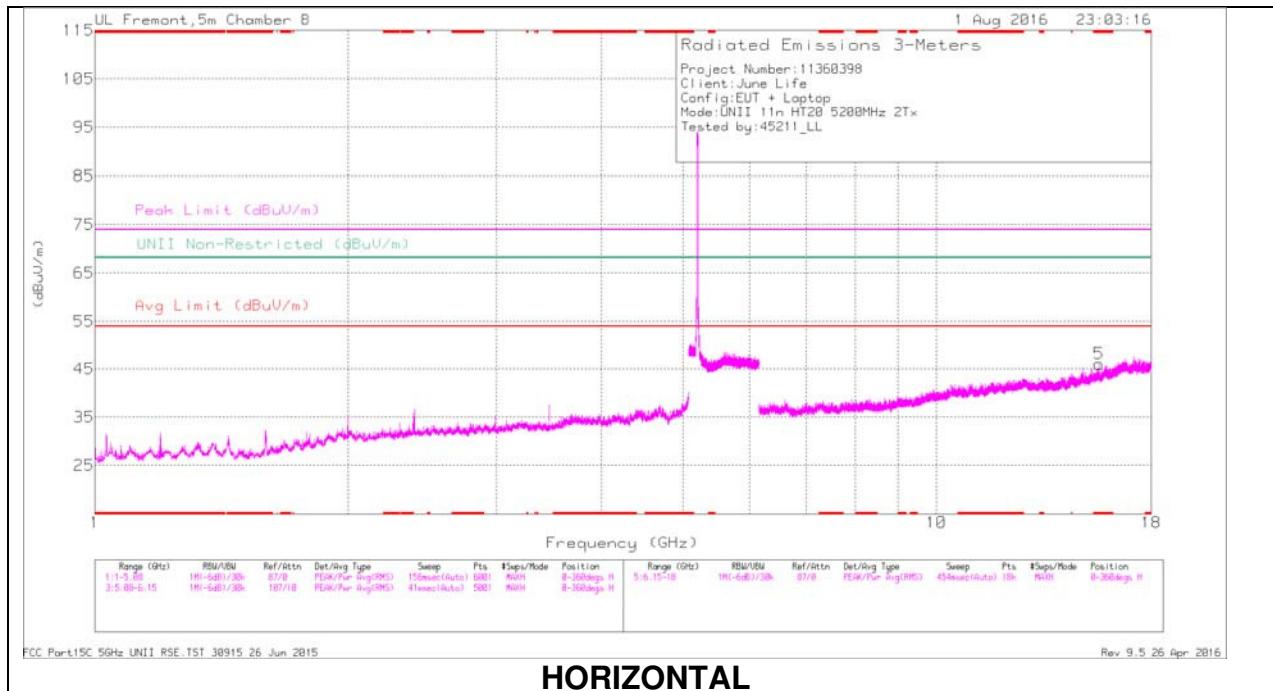
| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/Dif/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.195 | 52.6 | PK-U | 28.3 | -35.8 | 0 | 45.1 | - | - | 74 | -28.9 | - | - | 256 | 212 | V |
| | * 1.198 | 33.21 | ADR | 28.3 | -35.8 | .1 | 25.81 | 54 | -28.19 | - | - | - | - | 256 | 212 | V |
| 4 | * 4.883 | 46.38 | PK-U | 33.8 | -31.5 | 0 | 48.68 | - | - | 74 | -25.32 | - | - | 196 | 213 | V |
| | * 4.883 | 35.24 | ADR | 33.8 | -31.5 | .1 | 37.64 | 54 | -16.36 | - | - | - | - | 196 | 213 | V |
| 7 | * 15.546 | 37.4 | PK-U | 40.2 | -24 | 0 | 53.6 | - | - | 74 | -20.4 | - | - | 160 | 263 | H |
| | * 15.545 | 26.29 | ADR | 40.2 | -24 | .1 | 42.59 | 54 | -11.41 | - | - | - | - | 160 | 263 | H |
| 6 | * 15.541 | 39.12 | PK-U | 40.2 | -24 | 0 | 55.32 | - | - | 74 | -18.68 | - | - | 188 | 245 | V |
| | * 15.542 | 27.51 | ADR | 40.2 | -24 | .1 | 43.81 | 54 | -10.19 | - | - | - | - | 188 | 245 | V |
| 2 | 1.992 | 47.85 | PK-U | 31.5 | -34 | 0 | 45.35 | - | - | - | - | 68.2 | -22.85 | 326 | 112 | V |
| 3 | 3.454 | 48.05 | PK-U | 32.8 | -33.8 | 0 | 47.05 | - | - | - | - | 68.2 | -21.15 | 185 | 218 | V |
| 5 | 10.355 | 41.28 | PK-U | 37.6 | -26.1 | 0 | 52.78 | - | - | - | - | 68.2 | -15.42 | 154 | 226 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



MID CHANNEL DATA

Trace Markers

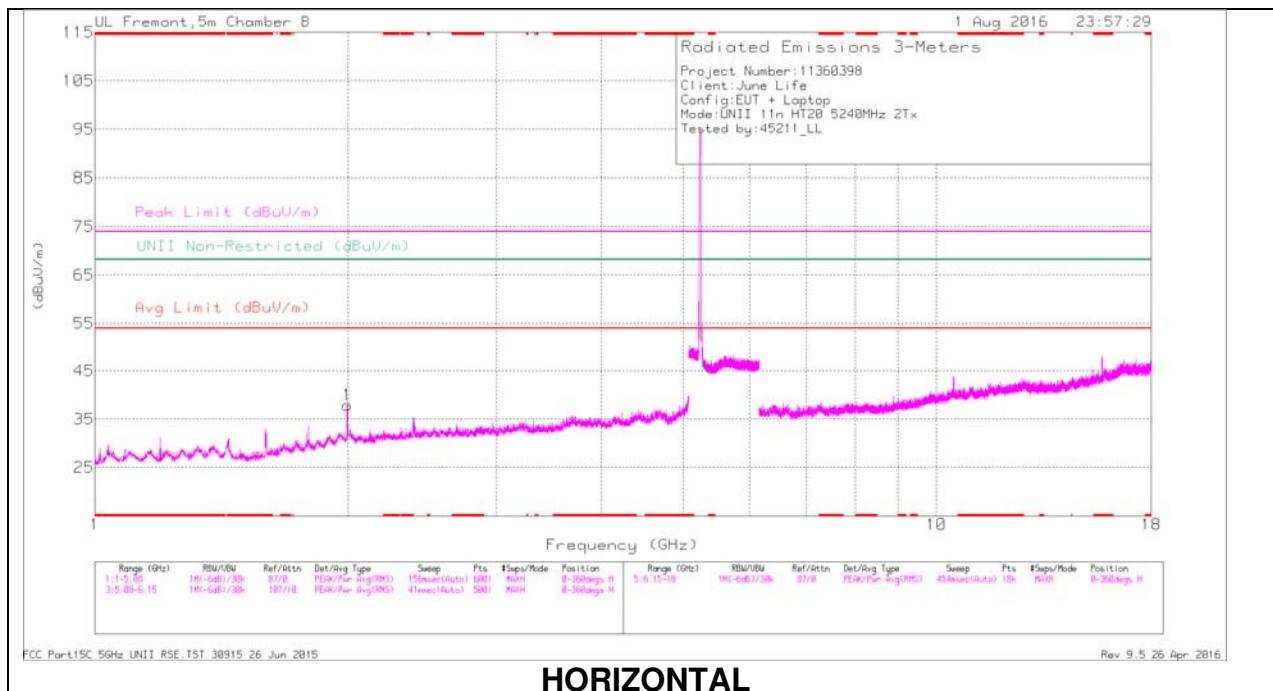
| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/Dif/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 3 | * 4.767 | -42.9 | PK-U | 33.9 | -31.6 | 0 | 45.2 | - | - | 74 | -28.8 | - | - | 194 | 289 | V |
| | * 4.767 | 33.96 | ADR | 33.9 | -31.6 | .1 | 36.36 | 54 | -17.64 | - | - | - | - | 194 | 289 | V |
| 4 | * 4.906 | 45.49 | PK-U | 33.9 | -31.3 | 0 | 48.09 | - | - | 74 | -25.91 | - | - | 187 | 306 | V |
| | * 4.901 | 34.71 | ADR | 33.9 | -31.3 | .1 | 37.41 | 54 | -16.59 | - | - | - | - | 187 | 306 | V |
| 5 | * 15.599 | 37.93 | PK-U | 40.3 | -24.5 | 0 | 53.73 | - | - | 74 | -20.27 | - | - | 129 | 198 | H |
| | * 15.599 | 26.02 | ADR | 40.3 | -24.5 | .1 | 41.92 | 54 | -12.08 | - | - | - | - | 129 | 198 | H |
| 7 | * 15.595 | 40.33 | PK-U | 40.3 | -24.6 | 0 | 56.03 | - | - | 74 | -17.97 | - | - | 187 | 303 | V |
| | * 15.596 | 27.03 | ADR | 40.3 | -24.6 | .1 | 42.83 | 54 | -11.17 | - | - | - | - | 187 | 303 | V |
| 1 | 2.395 | 49.92 | PK-U | 32.2 | -34.6 | 0 | 47.52 | - | - | - | - | 68.2 | -20.68 | 244 | 254 | V |
| 2 | 3.467 | 47.38 | PK-U | 32.8 | -33.7 | 0 | 46.48 | - | - | - | - | 68.2 | -21.72 | 183 | 217 | V |
| 6 | 10.404 | 36.41 | PK-U | 37.6 | -25.6 | 0 | 48.41 | - | - | - | - | 68.2 | -19.79 | 150 | 197 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

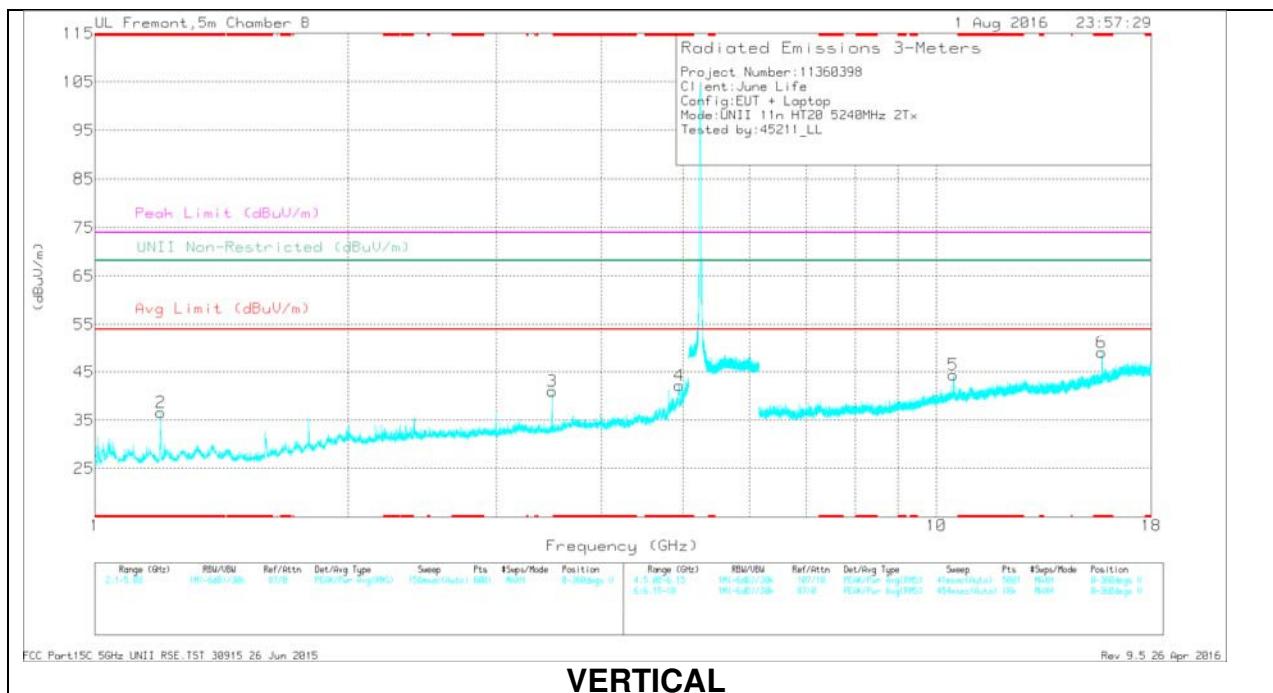
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBmV) | Dct | AF T345 (dB/m) | Amp/Dif/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Avg Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | UNII Non-Restricted (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2 | * 1.195 | 53.35 | PK-U | 28.3 | -35.8 | 0 | 45.85 | - | - | 74 | -28.15 | - | - | 217 | 381 | V |
| | * 1.199 | 33.35 | ADR | 28.3 | -35.8 | .1 | 25.95 | 54 | -28.05 | - | - | - | - | 217 | 381 | V |
| 4 | * 4.938 | 47.69 | PK-U | 33.9 | -31.8 | 0 | 49.79 | - | - | 74 | -24.21 | - | - | 186 | 304 | V |
| | * 4.938 | 36.67 | ADR | 33.9 | -31.8 | .1 | 38.87 | 54 | -15.13 | - | - | - | - | 186 | 304 | V |
| 6 | * 15.715 | 42.92 | PK-U | 40.5 | -24.4 | 0 | 59.02 | - | - | 74 | -14.98 | - | - | 166 | 142 | V |
| | * 15.716 | 30.37 | ADR | 40.5 | -24.4 | .1 | 46.57 | 54 | -7.43 | - | - | - | - | 166 | 142 | V |
| 1 | 1.997 | 49.34 | PK-U | 31.5 | -34.1 | 0 | 46.74 | - | - | - | - | 68.2 | -21.46 | 167 | 240 | H |
| 3 | 3.493 | 45.39 | PK-U | 32.8 | -33.2 | 0 | 44.99 | - | - | - | - | 68.2 | -23.21 | 178 | 250 | V |
| 5 | 10.48 | 42.59 | PK-U | 37.7 | -25.7 | 0 | 54.59 | - | - | - | - | 68.2 | -13.61 | 156 | 105 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

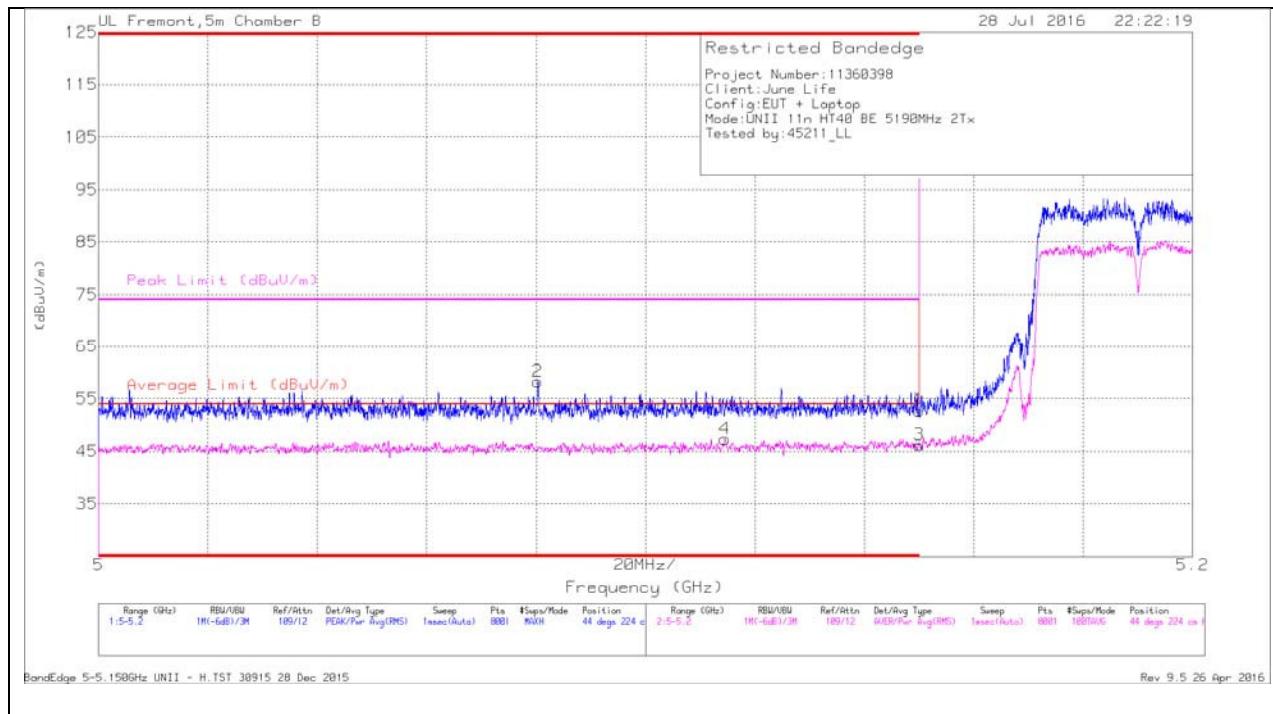
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.2.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULTS



Trace Markers

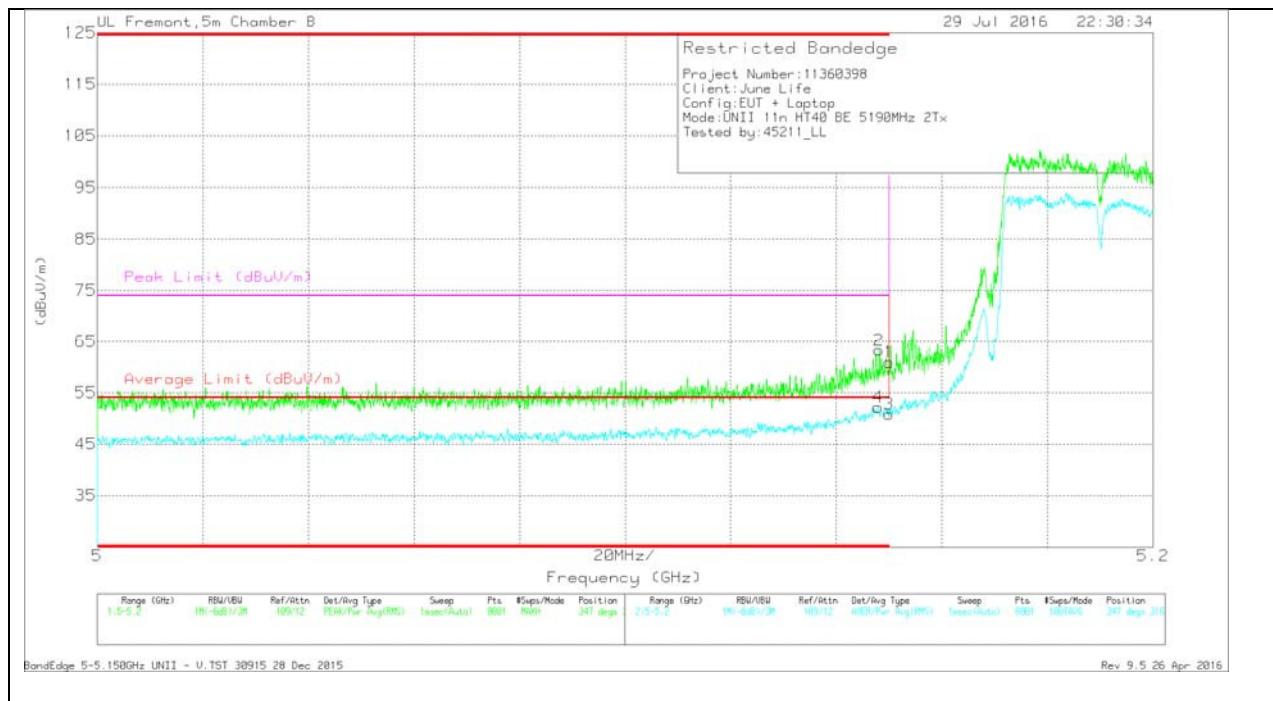
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cbl/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | * 5.08 | 43.78 | Pk | 34.1 | -19.6 | 0 | 58.28 | - | - | 74 | -15.72 | 44 | 224 | H |
| 4 | * 5.115 | 32.31 | RMS | 34.1 | -19.3 | .17 | 47.28 | 54 | -6.72 | - | - | 44 | 224 | H |
| 1 | 5.15 | 38.41 | Pk | 34.2 | -19.9 | 0 | 52.71 | - | - | 74 | -21.29 | 44 | 224 | H |
| 3 | 5.15 | 31.71 | RMS | 34.2 | -19.9 | .17 | 46.18 | 54 | -7.82 | - | - | 44 | 224 | H |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | * 5.148 | 48.65 | Pk | 34.2 | -19.6 | 0 | 63.25 | - | - | 74 | -10.75 | 347 | 316 | V |
| 4 | * 5.148 | 37.29 | RMS | 34.2 | -19.5 | .17 | 52.16 | 54 | -1.84 | - | - | 347 | 316 | V |
| 1 | 5.15 | 46.62 | Pk | 34.2 | -19.9 | 0 | 60.92 | - | - | 74 | -13.08 | 347 | 316 | V |
| 3 | 5.15 | 36.35 | RMS | 34.2 | -19.9 | .17 | 50.82 | 54 | -3.18 | - | - | 347 | 316 | V |

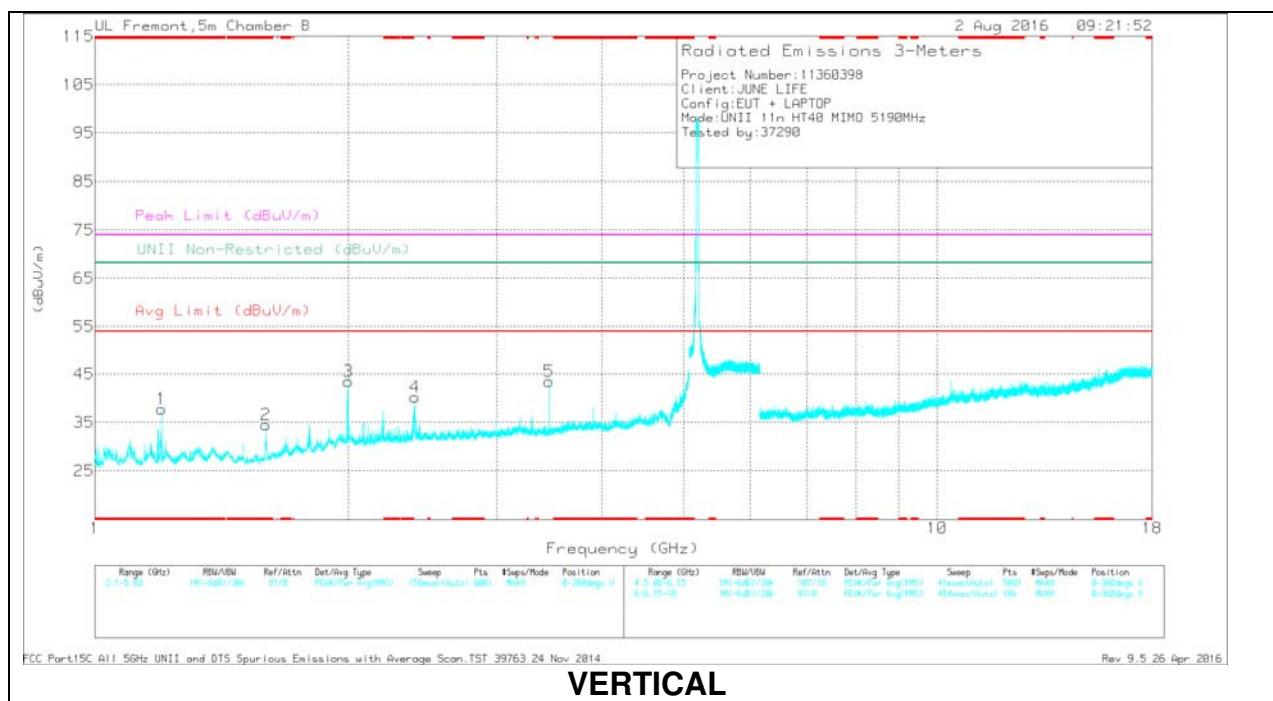
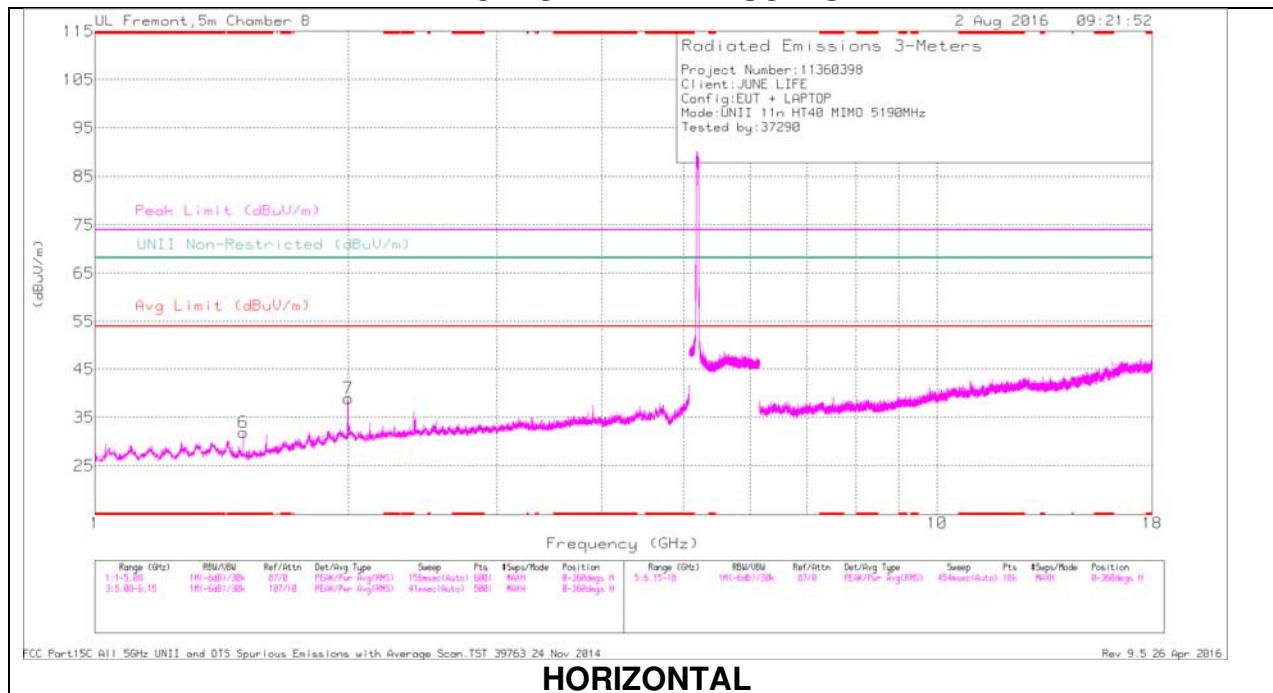
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



LOW CHANNEL DATA

Trace Markers

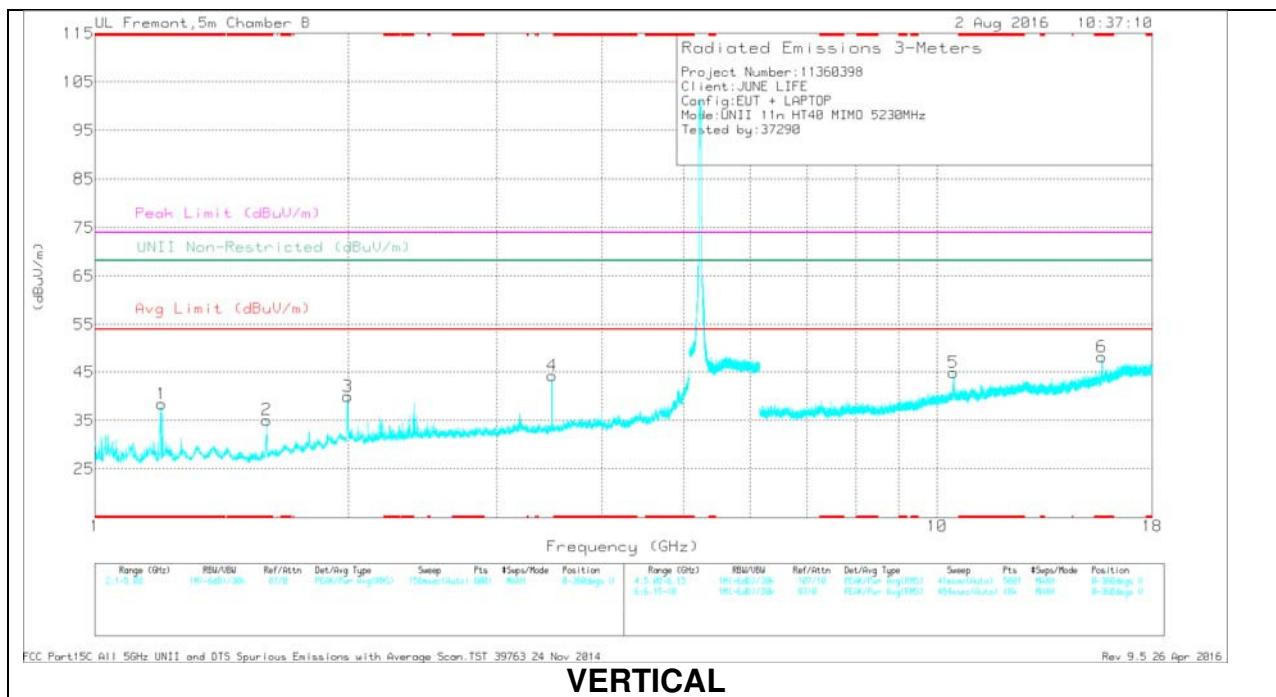
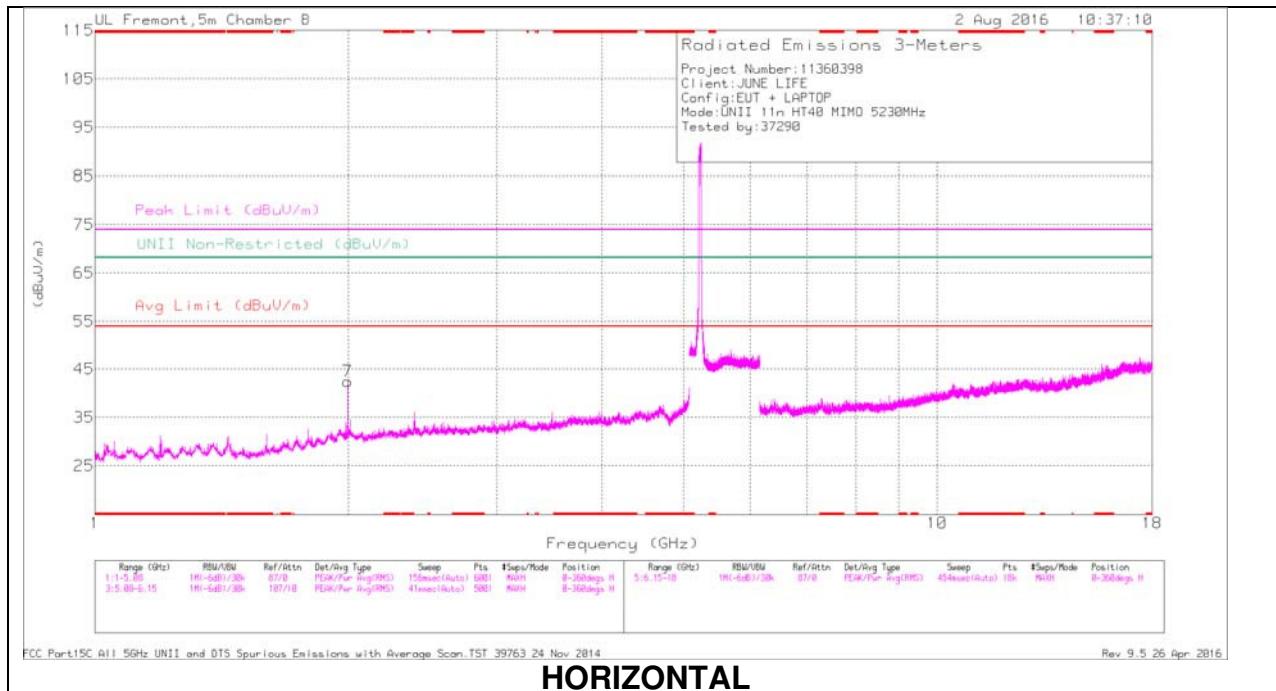
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Dst | AF T345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Pk Margin (dB) | UNII Non-Restricted (dBuV/m) | Pk Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 6 | * 1.494 | 43.4 | PK-U | 27.8 | -35.6 | 0 | 35.6 | - | - | 74 | -38.4 | 68.2 | -32.6 | 255 | 288 | H |
| | * 1.49 | 31.41 | ADR | 27.9 | -35.5 | .17 | 23.98 | 54 | -30.02 | - | - | - | - | 255 | 288 | H |
| 1 | * 1.2 | 55.57 | PK-U | 28.3 | -35.8 | 0 | 48.07 | - | - | 74 | -25.93 | 68.2 | -20.13 | 48 | 278 | V |
| | * 1.199 | 35.01 | ADR | 28.3 | -35.8 | .17 | 27.68 | 54 | -26.32 | - | - | - | - | 48 | 278 | V |
| 2 | * 1.596 | 50.71 | PK-U | 28.1 | -35.2 | 0 | 43.61 | - | - | 74 | -30.39 | 68.2 | -24.59 | 224 | 119 | V |
| | * 1.596 | 33.41 | ADR | 28.1 | -35.2 | .17 | 26.48 | 54 | -27.52 | - | - | - | - | 224 | 119 | V |
| 7 | 1.998 | 54.49 | PK-U | 31.5 | -34.2 | 0 | 51.79 | - | - | 74 | -22.21 | 68.2 | -16.41 | 56 | 252 | V |
| 3 | 1.999 | 51.84 | PK-U | 31.5 | -34.2 | 0 | 49.14 | - | - | 74 | -24.86 | 68.2 | -19.06 | 65 | 188 | H |
| 4 | 2.396 | 51.89 | PK-U | 32.2 | -34.6 | 0 | 49.49 | - | - | 74 | -24.51 | 68.2 | -18.71 | 270 | 135 | V |
| 5 | 3.46 | 48.8 | PK-U | 32.8 | -33.7 | 0 | 47.9 | - | - | 74 | -26.1 | 68.2 | -20.3 | 218 | 125 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV/m) | Dct | AF1345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|------------------------|------|---------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.199 | 55.42 | PK-U | 28.3 | -35.8 | 0 | 47.92 | - | - | 74 | -26.08 | 68.2 | -20.28 | 53 | 209 | V |
| | * 1.2 | 35.2 | ADR | 28.3 | -35.8 | .17 | 27.87 | 54 | -26.13 | - | - | - | - | 53 | 209 | V |
| 2 | * 1.599 | 50.24 | PK-U | 28.1 | -35.1 | 0 | 43.24 | - | - | 74 | -30.76 | 68.2 | -24.96 | 201 | 297 | V |
| | * 1.599 | 33.04 | ADR | 28.1 | -35.2 | .17 | 26.11 | 54 | -27.89 | - | - | - | - | 201 | 297 | V |
| 6 | * 15.69 | 38.72 | PK-U | 40.4 | -24.6 | 0 | 54.52 | - | - | 74 | -19.48 | 68.2 | -13.68 | 169 | 124 | V |
| | * 15.689 | 27.89 | ADR | 40.4 | -24.5 | .17 | 43.96 | 54 | -10.04 | - | - | - | - | 169 | 124 | V |
| 7 | 1.996 | 51.76 | PK-U | 31.5 | -34.1 | 0 | 49.16 | - | - | 74 | -24.84 | 68.2 | -19.04 | 69 | 151 | H |
| 3 | 2 | 55.55 | PK-U | 31.5 | -34.2 | 0 | 52.85 | - | - | 74 | -21.15 | 68.2 | -15.35 | 56 | 229 | V |
| 4 | 3.487 | 48.08 | PK-U | 32.8 | -33.3 | 0 | 47.58 | - | - | 74 | -26.42 | 68.2 | -20.62 | 208 | 126 | V |
| 5 | 10.46 | 41.16 | PK-U | 37.7 | -25.4 | 0 | 53.46 | - | - | 74 | -20.54 | 68.2 | -14.74 | 154 | 141 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

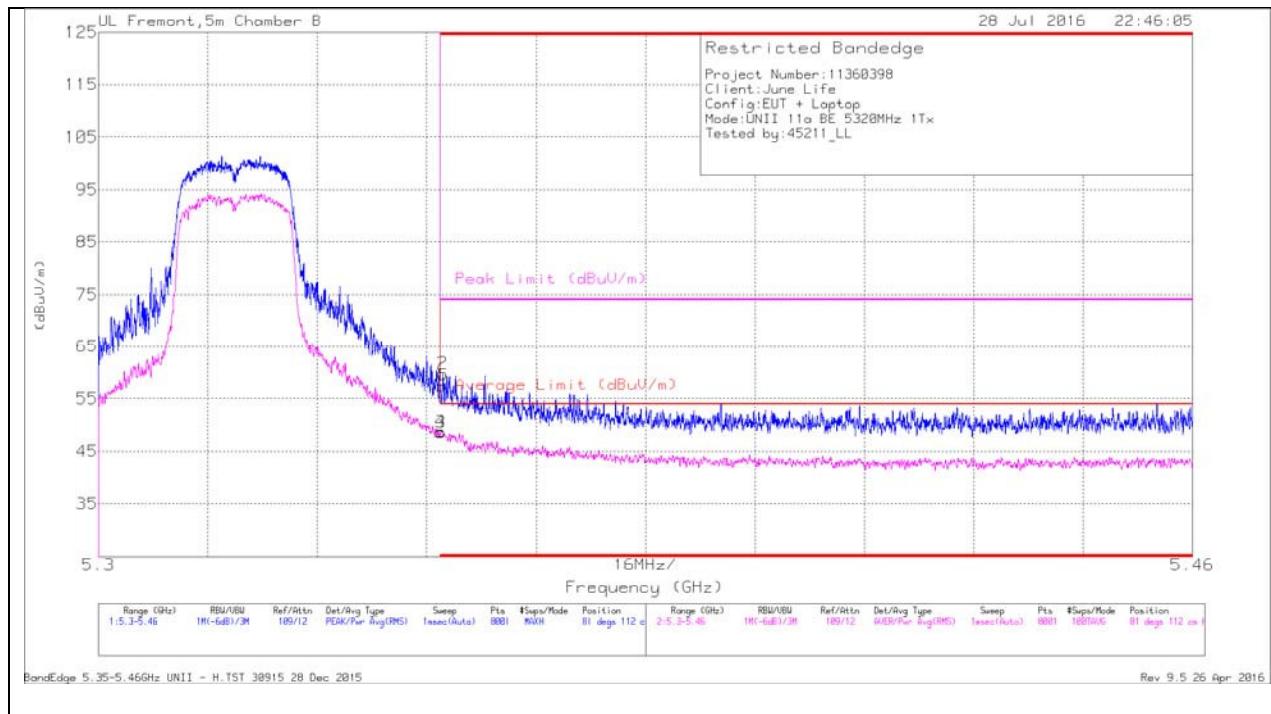
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.2.4. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULTS



Trace Markers

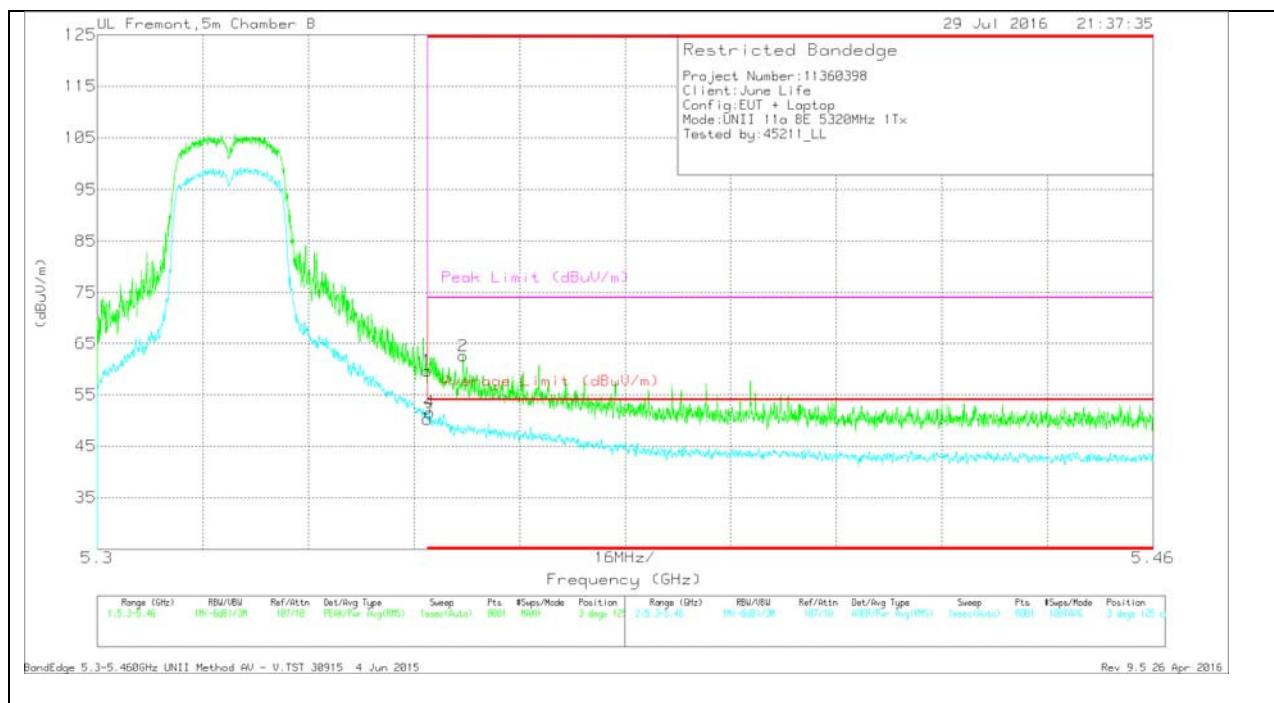
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 43.18 | Pk | 34.5 | -20.3 | 0 | 57.38 | - | - | 74 | -16.62 | 81 | 112 | H |
| 2 | * 5.35 | 45.47 | Pk | 34.5 | -20.3 | 0 | 59.67 | - | - | 74 | -14.33 | 81 | 112 | H |
| 3 | * 5.35 | 34.31 | RMS | 34.5 | -20.3 | 0 | 48.51 | 54 | -5.49 | - | - | 81 | 112 | H |
| 4 | * 5.35 | 34.43 | RMS | 34.5 | -20.3 | 0 | 48.63 | 54 | -5.37 | - | - | 81 | 112 | H |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|--------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 47.86 | Pk | 34.5 | -22.7 | 0 | 59.66 | - | - | 74 | -14.34 | 3 | 125 | V |
| 3 | * 5.35 | 38.48 | RMS | 34.5 | -22.7 | 0 | 50.28 | 54 | -3.72 | - | - | 3 | 125 | V |
| 4 | * 5.35 | 39.77 | RMS | 34.5 | -22.7 | 0 | 51.57 | 54 | -2.43 | - | - | 3 | 125 | V |
| 2 | * 5.355 | 50.77 | Pk | 34.5 | -22.7 | 0 | 62.57 | - | - | 74 | -11.43 | 3 | 125 | V |

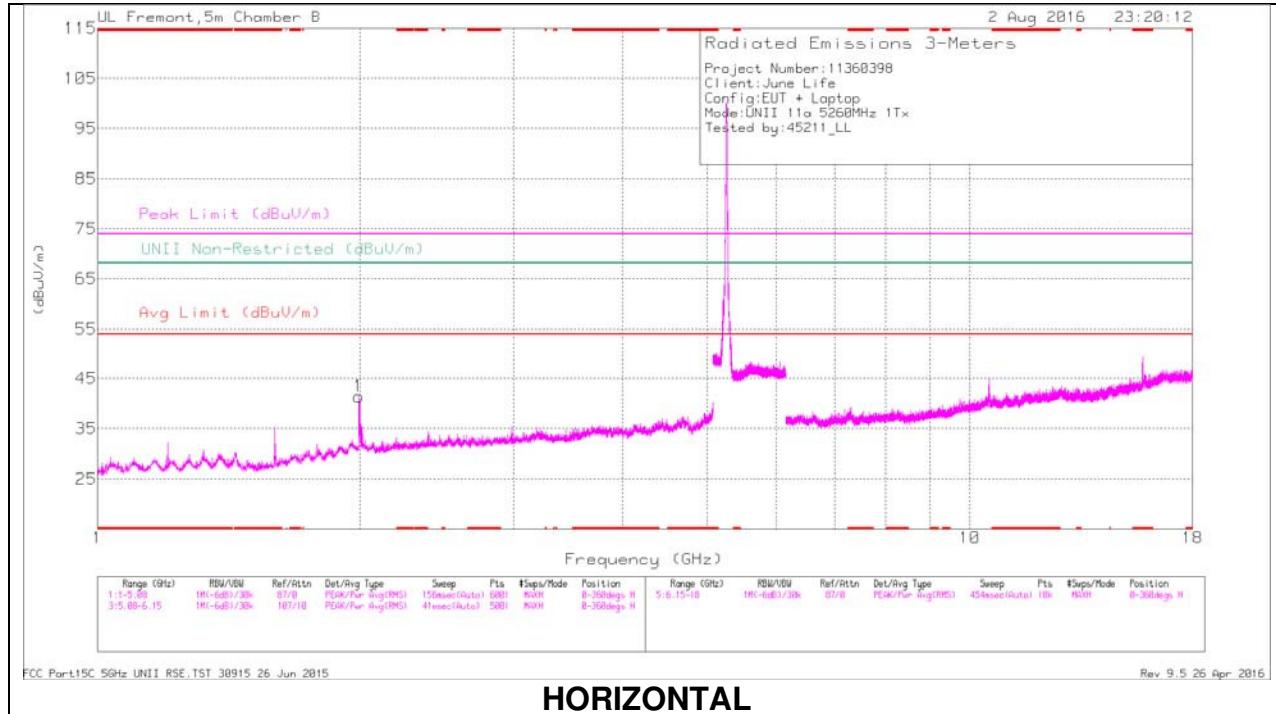
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

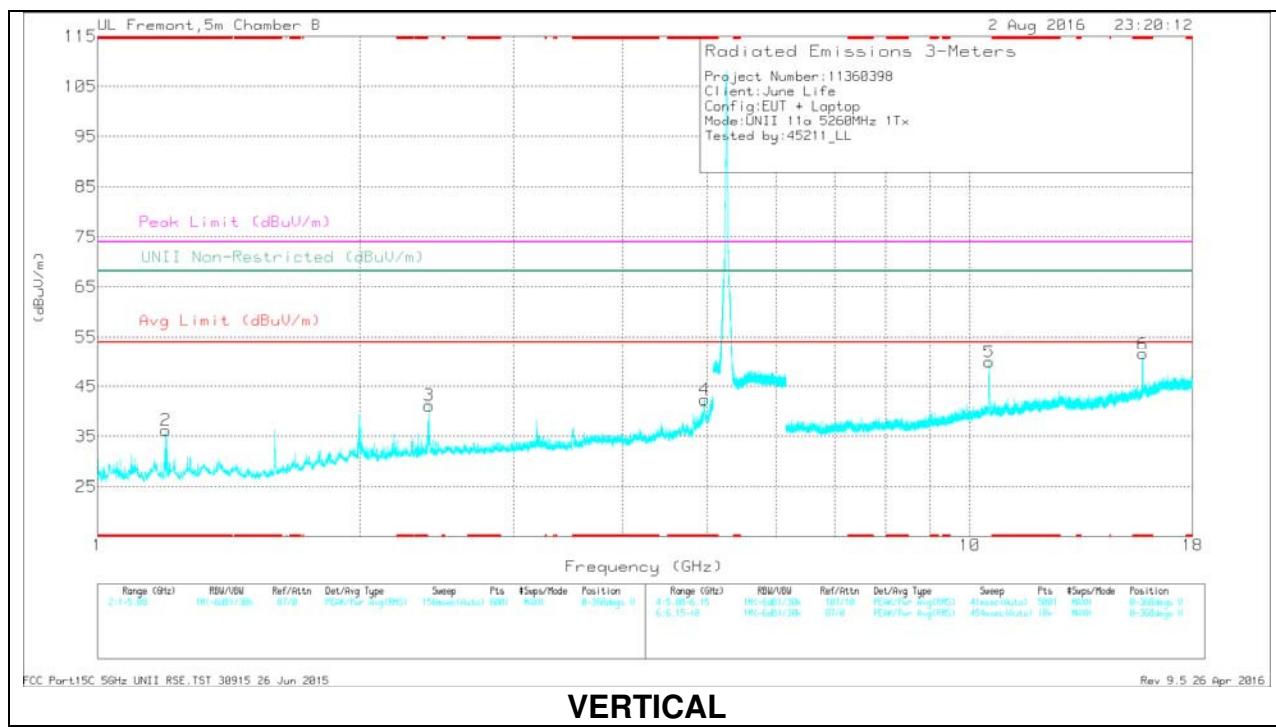
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

LOW CHANNEL DATA

Trace Markers

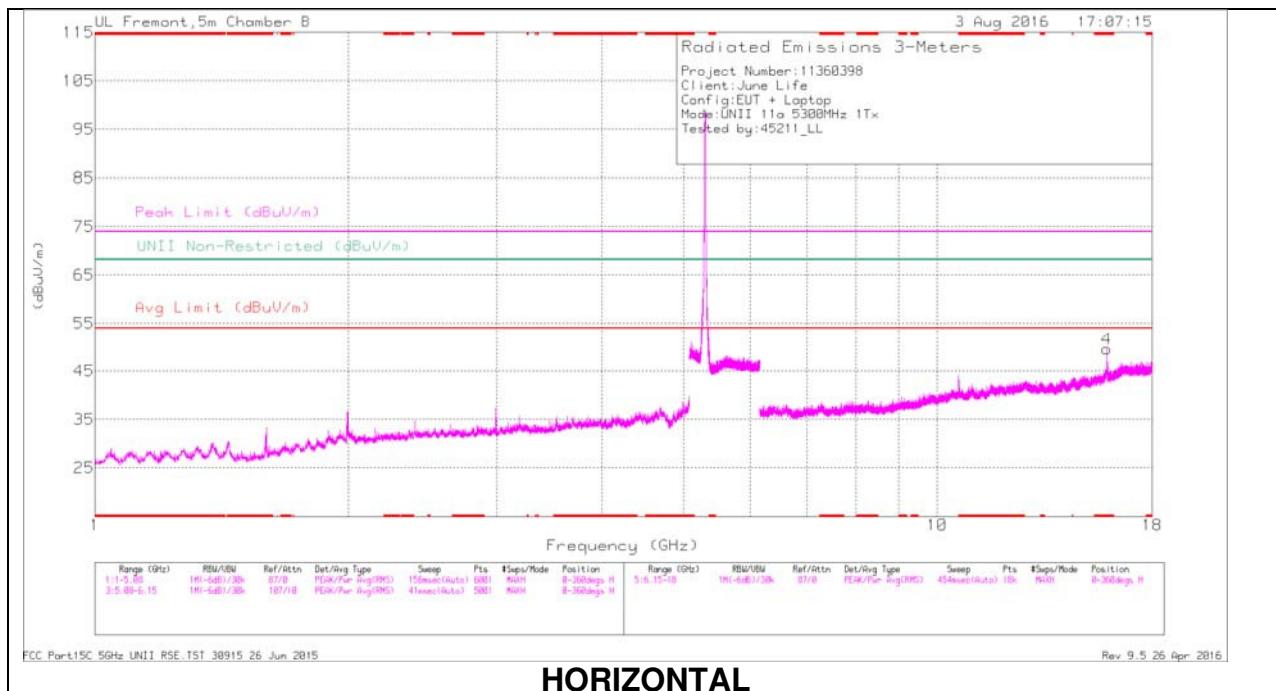
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Dct | AF T345 (dB/m) | Amp/Cdn/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Pk Margin (dB) | UNII Non-Restricted (dBuV/m) | Pk Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2 | * 1.199 | 54.66 | PK-U | 28.3 | -35.8 | 0 | 47.16 | - | - | 74 | -26.84 | - | - | 64 | 222 | V |
| | * 1.2 | 33.36 | ADR | 28.3 | -35.8 | 0 | 25.86 | 54 | -28.14 | - | - | - | - | 64 | 222 | V |
| 4 | * 4.962 | 45.99 | PK-U | 34 | -31.2 | 0 | 48.79 | - | - | 74 | -25.21 | - | - | 173 | 125 | V |
| | * 4.963 | 35.12 | ADR | 34 | -31.2 | 0 | 37.92 | 54 | -16.08 | - | - | - | - | 173 | 125 | V |
| 6 | * 15.776 | 43.27 | PK-U | 40.5 | -24 | 0 | 59.77 | - | - | 74 | -14.23 | - | - | 206 | 101 | V |
| | * 15.78 | 32.22 | ADR | 40.5 | -24.2 | 0 | 48.52 | 54 | -5.48 | - | - | - | - | 206 | 101 | V |
| 1 | 1.995 | 51.9 | PK-U | 31.5 | -34.1 | 0 | 49.3 | - | - | - | - | 68.2 | -18.9 | 66 | 157 | H |
| 3 | 2.397 | 52.17 | PK-U | 32.2 | -34.6 | 0 | 49.77 | - | - | - | - | 68.2 | -18.43 | 273 | 109 | V |
| 5 | 10.518 | 50.55 | PK-U | 37.8 | -25.9 | 0 | 62.45 | - | - | - | - | 68.2 | -5.75 | 155 | 139 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

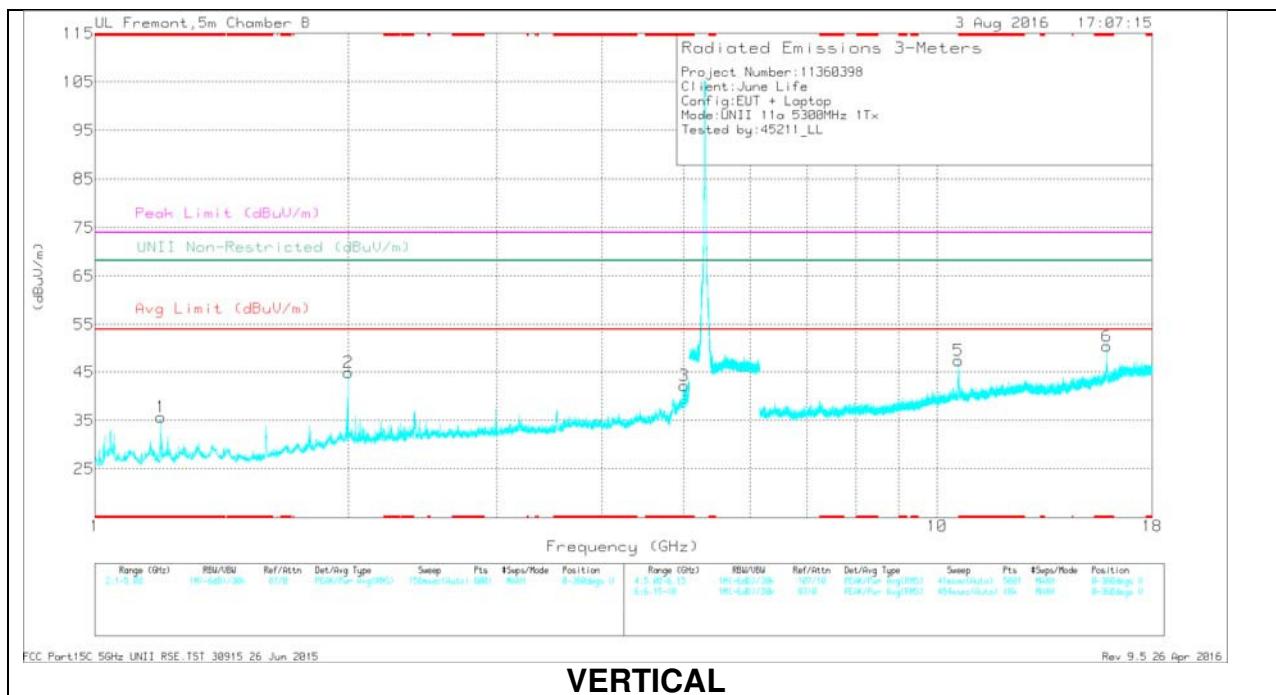
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

MID CHANNEL DATA

Trace Markers

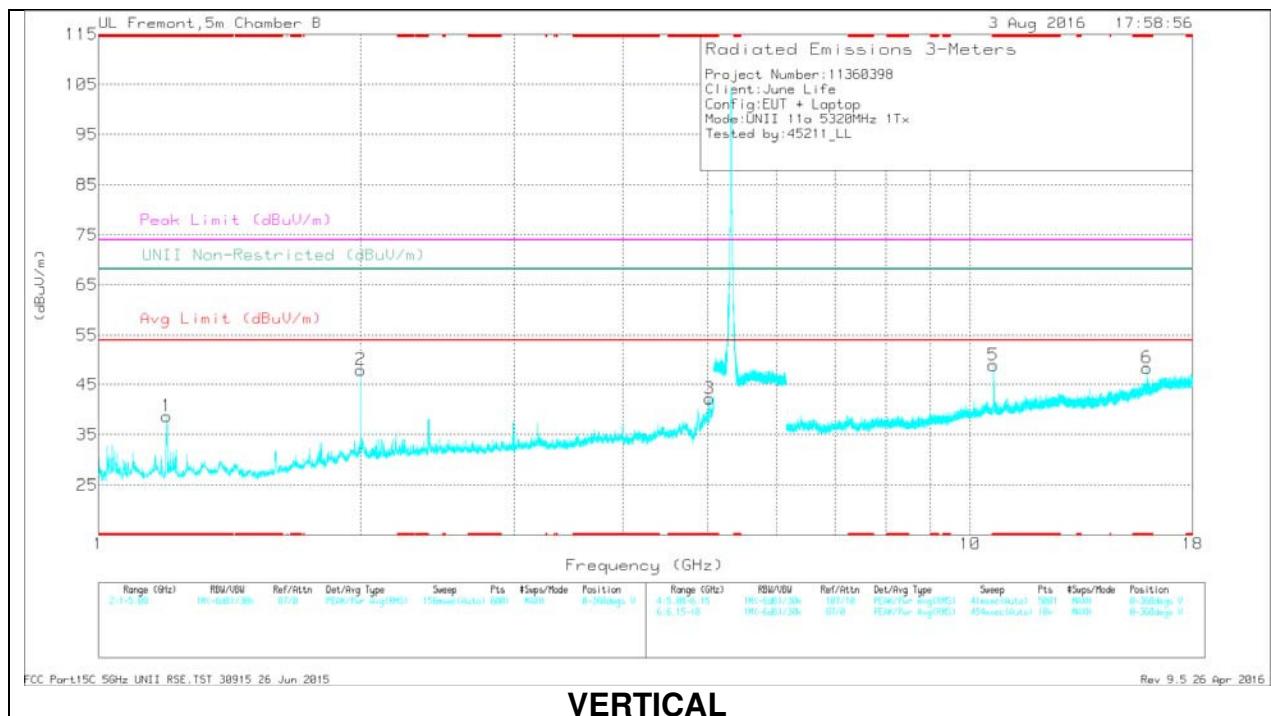
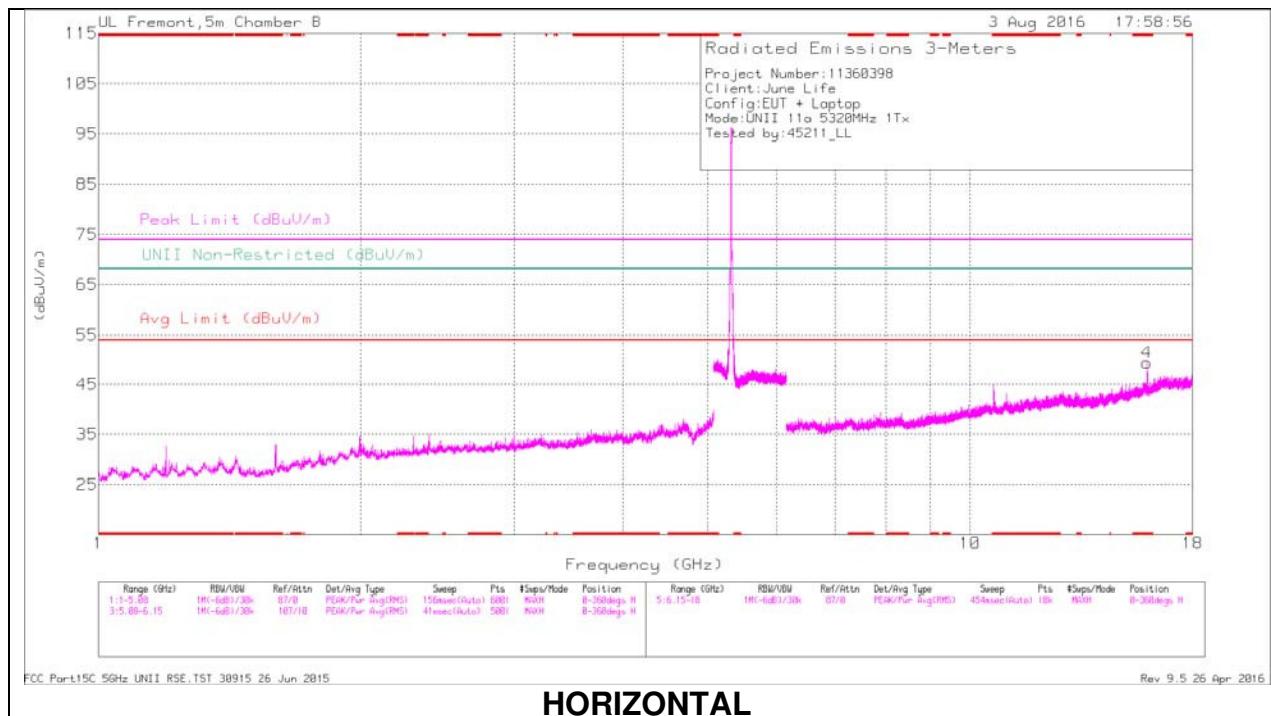
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Dct | AF T345 (dB/m) | Amp/OFL/FIR/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Avg Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | UNII Non-Restricted (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.2 | 52.36 | PK-U | 28.3 | -35.8 | 0 | 44.86 | - | - | 74 | -29.14 | - | - | 149 | 113 | V |
| | * 1.2 | 32.49 | ADR | 28.3 | -35.8 | 0 | 24.99 | 54 | -29.01 | - | - | - | - | 149 | 113 | V |
| 3 | * 4.997 | 45.66 | PK-U | 34.1 | -30.2 | 0 | 49.56 | - | - | 74 | -24.44 | - | - | 172 | 106 | V |
| | * 5.003 | 35.25 | ADR | 34.1 | -30.2 | 0 | 39.15 | 54 | -14.85 | - | - | - | - | 172 | 106 | V |
| 4 | * 15.904 | 42.11 | PK-U | 40.7 | -22.5 | 0 | 60.31 | - | - | 74 | -13.69 | - | - | 147 | 197 | H |
| | * 15.904 | 30.76 | ADR | 40.7 | -22.5 | 0 | 48.96 | 54 | -5.04 | - | - | - | - | 147 | 197 | H |
| 6 | * 15.903 | 42.85 | PK-U | 40.7 | -22.5 | 0 | 61.05 | - | - | 74 | -12.95 | - | - | 204 | 105 | V |
| | * 15.901 | 31.46 | ADR | 40.7 | -22.4 | 0 | 49.76 | 54 | -4.24 | - | - | - | - | 204 | 105 | V |
| 2 | 1.999 | 55.07 | PK-U | 31.5 | -34.2 | 0 | 52.37 | - | - | - | - | 68.2 | -15.83 | 57 | 171 | V |
| 5 | 10.598 | 47.49 | PK-U | 37.9 | -26.4 | 0 | 58.99 | - | - | - | - | 68.2 | -9.21 | 156 | 140 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cdn/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Pk Margin (dB) | UNII Non-Restricted (dBuV/m) | Pk Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.199 | 54.32 | PK-U | 28.3 | -35.8 | 0 | 46.82 | - | - | 74 | -27.18 | - | - | 77 | 231 | V |
| | * 1.197 | 32.69 | ADR | 28.3 | -35.8 | 0 | 25.19 | 54 | -28.81 | - | - | - | - | 77 | 231 | V |
| 3 | * 5.028 | 44.63 | PK-U | 34.1 | -30 | 0 | 48.73 | - | - | 74 | -25.27 | - | - | 171 | 184 | V |
| | * 5.024 | 34.99 | ADR | 34.1 | -30.1 | 0 | 38.99 | 54 | -15.01 | - | - | - | - | 171 | 184 | V |
| 4 | * 15.96 | 39.21 | PK-U | 40.7 | -23.5 | 0 | 56.41 | - | - | 74 | -17.59 | - | - | 148 | 197 | H |
| | * 15.96 | 29.45 | ADR | 40.7 | -23.5 | 0 | 46.65 | 54 | -7.35 | - | - | - | - | 148 | 197 | H |
| 5 | * 10.641 | 44.15 | PK-U | 37.9 | -25.5 | 0 | 56.55 | - | - | 74 | -17.45 | - | - | 157 | 145 | V |
| | * 10.641 | 34.13 | ADR | 37.9 | -25.5 | 0 | 46.53 | 54 | -7.47 | - | - | - | - | 157 | 145 | V |
| 6 | * 15.962 | 40.75 | PK-U | 40.7 | -23.5 | 0 | 57.95 | - | - | 74 | -16.05 | - | - | 206 | 113 | V |
| | * 15.959 | 29.63 | ADR | 40.7 | -23.5 | 0 | 46.83 | 54 | -7.17 | - | - | - | - | 206 | 113 | V |
| 2 | 1.998 | 56.93 | PK-U | 31.5 | -34.2 | 0 | 54.23 | - | - | - | - | 68.2 | -13.97 | 59 | 244 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

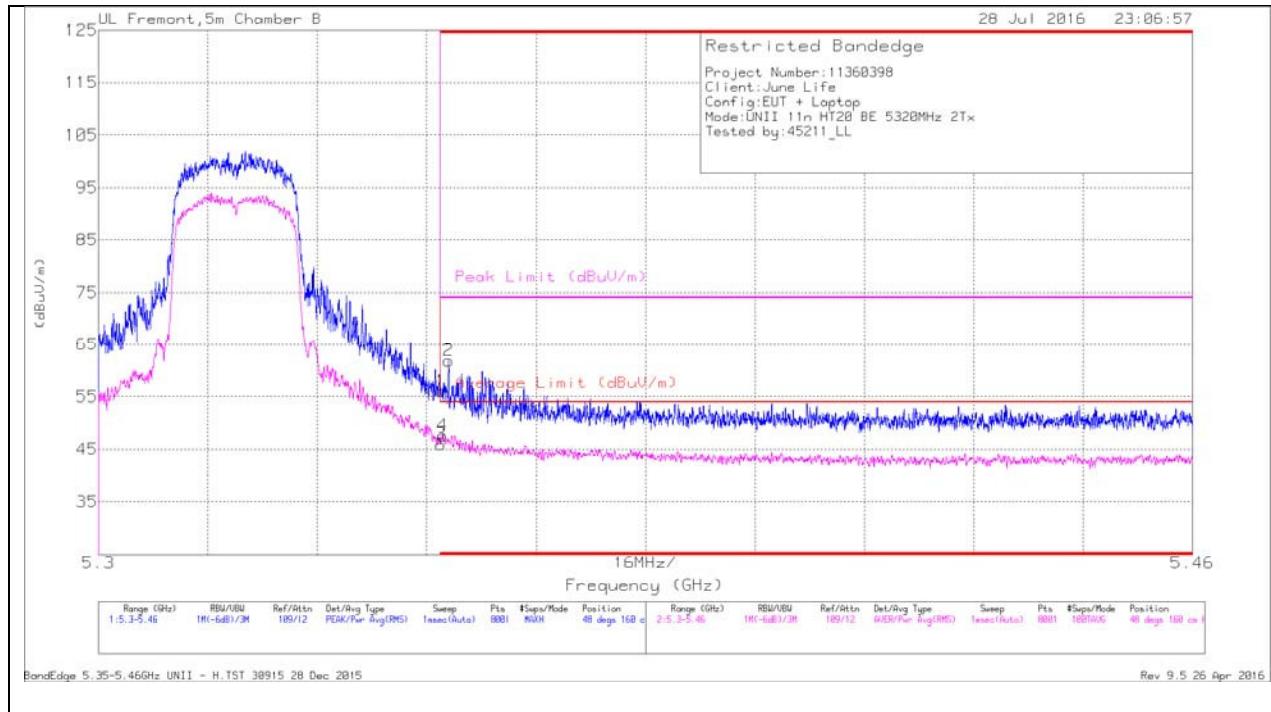
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.2.5. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULTS



Trace Markers

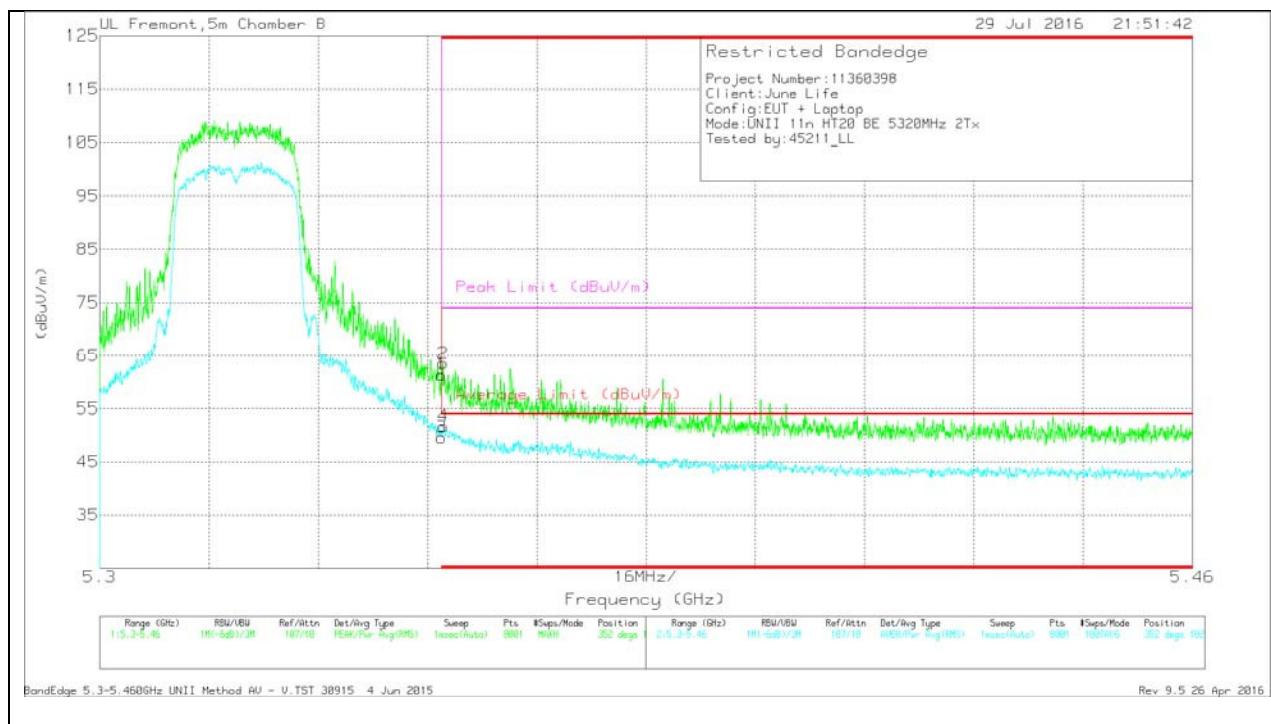
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Ctl/Htr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 41.75 | Pk | 34.5 | -20.3 | 0 | 55.95 | - | - | 74 | -18.05 | 48 | 160 | H |
| 3 | * 5.35 | 31.69 | RMS | 34.5 | -20.3 | .1 | 45.99 | 54 | -8.01 | - | - | 48 | 160 | H |
| 4 | * 5.35 | 33.22 | RMS | 34.5 | -20.3 | .1 | 47.52 | 54 | -6.48 | - | - | 48 | 160 | H |
| 2 | * 5.351 | 47.64 | Pk | 34.5 | -20.3 | 0 | 61.84 | - | - | 74 | -12.16 | 48 | 160 | H |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 49.57 | Pk | 34.5 | -22.7 | 0 | 61.37 | - | - | 74 | -12.63 | 352 | 102 | V |
| 2 | * 5.35 | 51.69 | Pk | 34.5 | -22.7 | 0 | 63.49 | - | - | 74 | -10.51 | 352 | 102 | V |
| 3 | * 5.35 | 37.64 | RMS | 34.5 | -22.7 | .1 | 49.54 | 54 | -4.46 | - | - | 352 | 102 | V |
| 4 | * 5.35 | 39.74 | RMS | 34.5 | -22.7 | .1 | 51.64 | 54 | -2.36 | - | - | 352 | 102 | V |

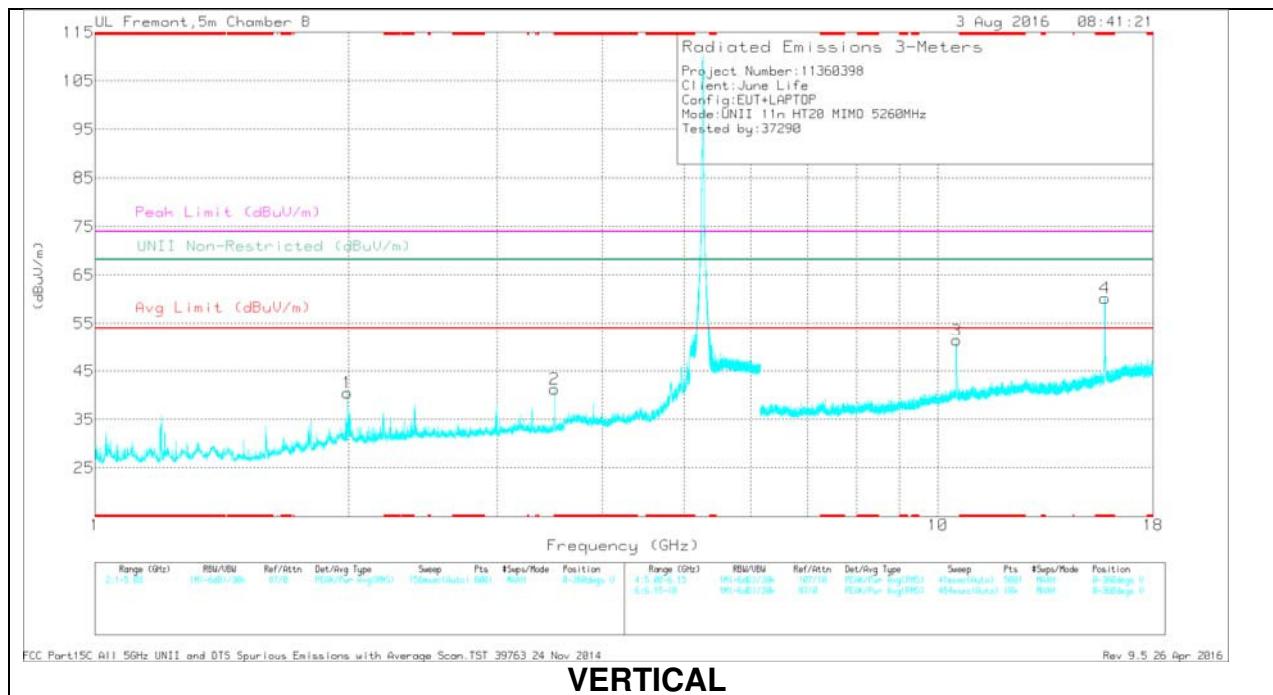
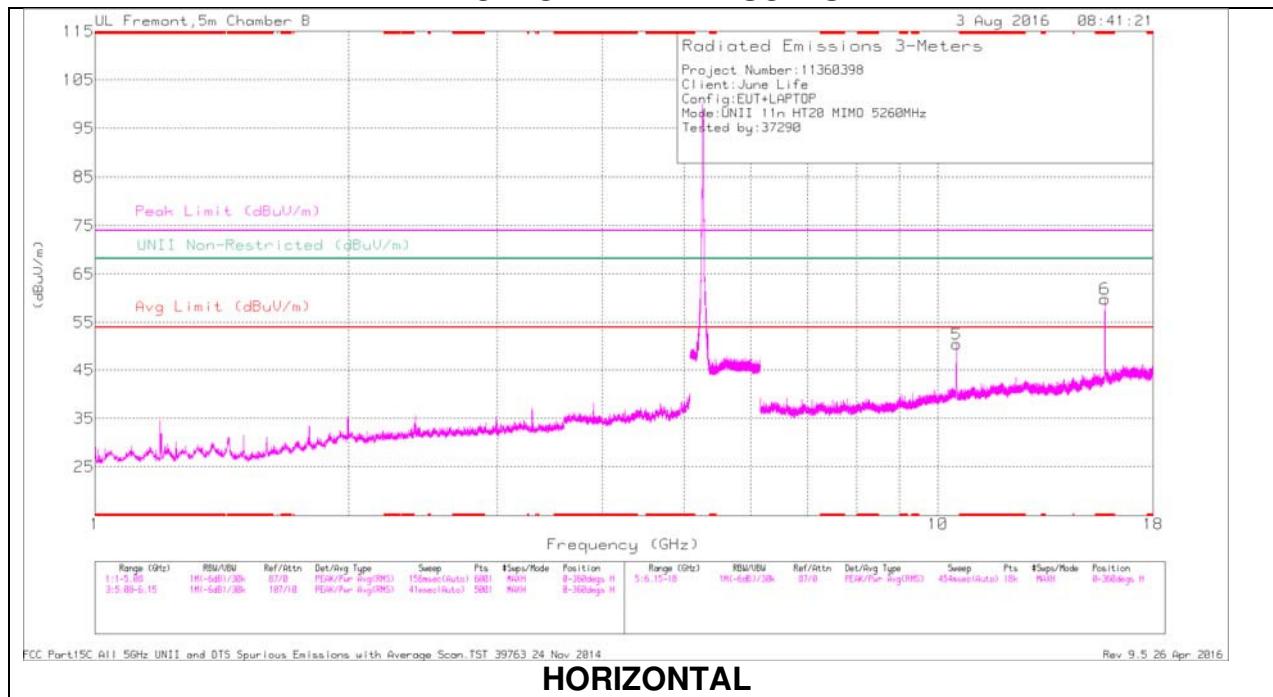
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



LOW CHANNEL DATA

Trace Markers

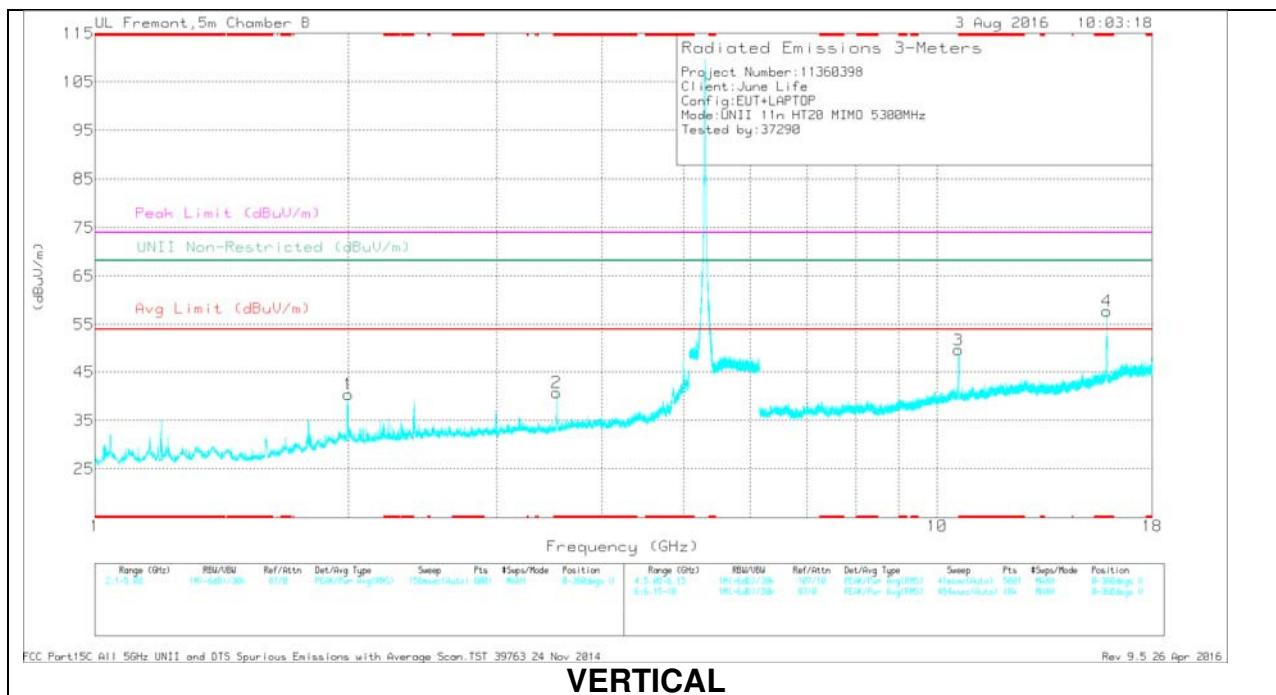
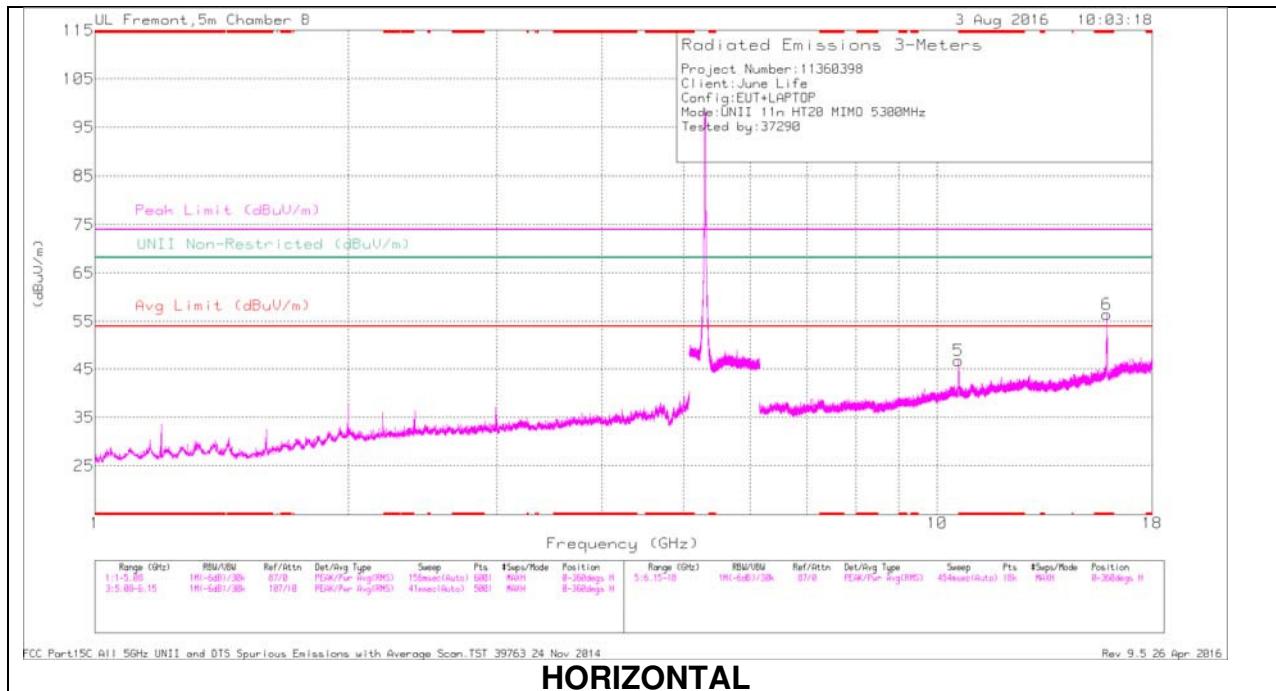
| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/O/I/FIR/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2 | * 3.507 | 47.68 | PK-U | 32.8 | -33.2 | 0 | 47.28 | - | - | 74 | -26.72 | 68.2 | -20.92 | 206 | 110 | V |
| | * 3.507 | 40.56 | ADR | 32.8 | -33.2 | .1 | 40.26 | 54 | -13.74 | - | - | - | - | 206 | 110 | V |
| 6 | * 15.779 | 38.61 | PK-U | 40.5 | -24.2 | 0 | 54.91 | - | - | 74 | -19.09 | 68.2 | -13.29 | 243 | 177 | H |
| | * 15.777 | 28.36 | ADR | 40.5 | -24.1 | .1 | 44.86 | 54 | -9.14 | - | - | - | - | 243 | 177 | H |
| 4 | * 15.78 | 47.41 | PK-U | 40.5 | -24.2 | 0 | 63.71 | - | - | 74 | -10.29 | 68.2 | -4.49 | 204 | 102 | V |
| | * 15.78 | 35.31 | ADR | 40.5 | -24.2 | .1 | 51.71 | 54 | -2.29 | - | - | - | - | 204 | 102 | V |
| 1 | 1.094 | 50.42 | PK-U | 31.5 | -34.1 | 0 | 47.82 | - | - | 74 | -26.18 | 68.2 | -20.38 | 231 | 105 | V |
| 3 | 10.519 | 45.34 | PK-U | 37.8 | -25.9 | 0 | 57.24 | - | - | 74 | -16.76 | 68.2 | -10.96 | 161 | 107 | H |
| 5 | 10.519 | 46.7 | PK-U | 37.8 | -25.9 | 0 | 58.6 | - | - | 74 | -15.4 | 68.2 | -9.6 | 158 | 133 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



MID CHANNEL DATA

Trace Markers

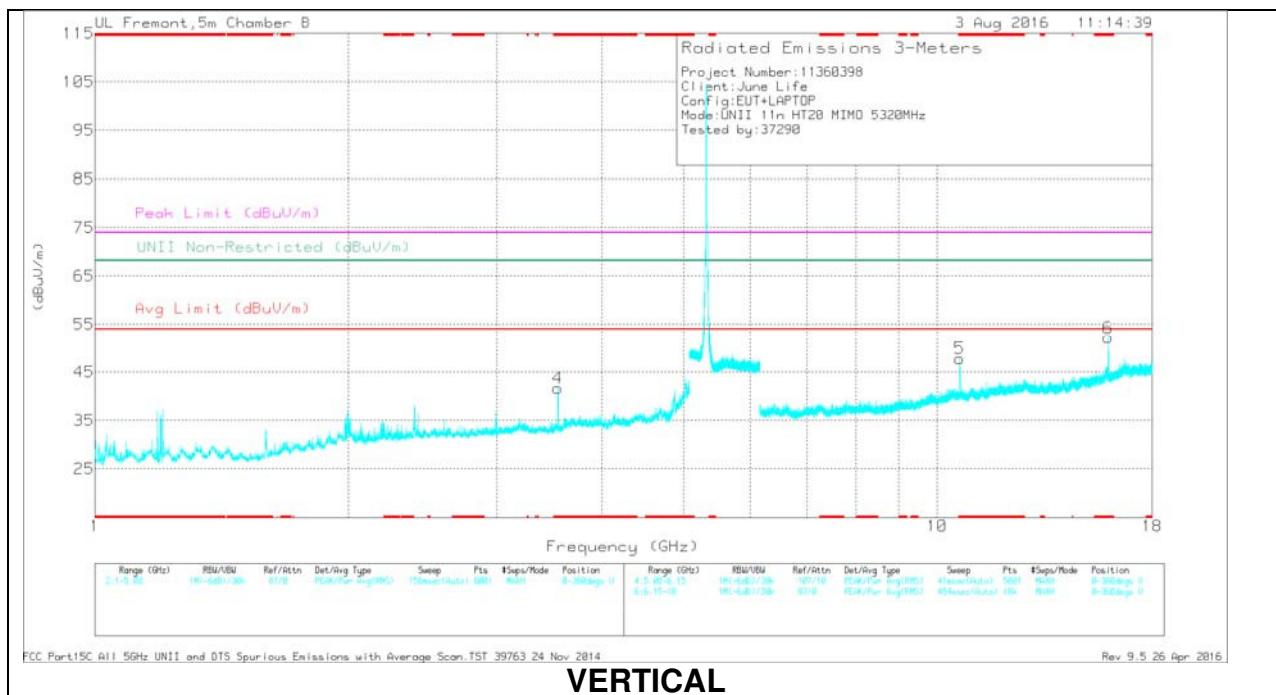
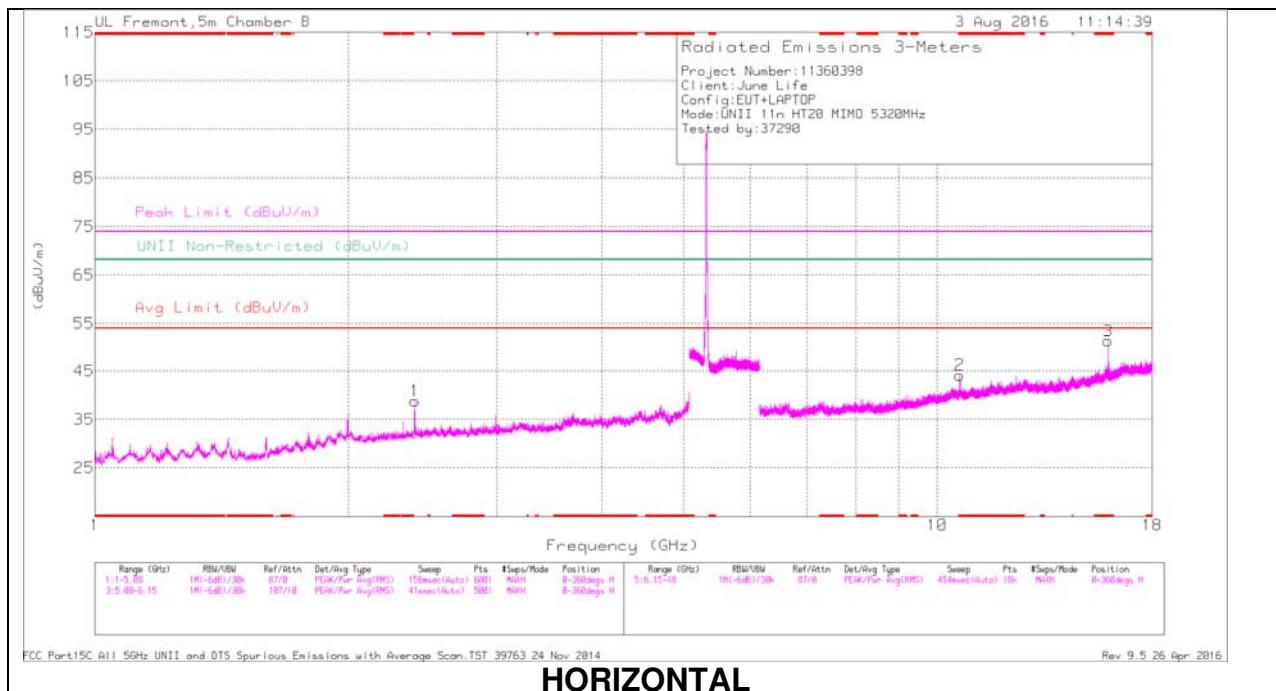
| Marker | Frequency (GHz) | Meter Reading (dBm) | Dst | AF T345 (dB/m) | Amp/Dif/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2 | * 3.533 | 46.42 | PK-U | 32.9 | -32.8 | 0 | 46.52 | - | - | 74 | -27.48 | 68.2 | -21.68 | 208 | 129 | V |
| | * 3.533 | 39.23 | ADR | 32.9 | -32.8 | .1 | 39.43 | 54 | -14.57 | - | - | - | - | 208 | 129 | V |
| 6 | * 15.906 | 44.54 | PK-U | 40.7 | -22.7 | 0 | 62.54 | - | - | 74 | -11.46 | 68.2 | -5.66 | 132 | 198 | H |
| | * 15.904 | 33.8 | ADR | 40.7 | -22.6 | .1 | 52 | 54 | -2 | - | - | - | - | 132 | 198 | H |
| 4 | * 15.893 | 43.16 | PK-U | 40.7 | -22.7 | 0 | 61.16 | - | - | 74 | -12.84 | 68.2 | -7.04 | 202 | 143 | V |
| | * 15.903 | 33.48 | ADR | 40.7 | -22.5 | .1 | 51.78 | 54 | -2.22 | - | - | - | - | 202 | 143 | V |
| 1 | 1.998 | 55.19 | PK-U | 31.5 | -34.1 | 0 | 52.59 | - | - | 74 | -21.41 | 68.2 | -15.61 | 66 | 243 | V |
| 3 | 10.596 | 37.72 | PK-U | 37.9 | -26.4 | 0 | 49.22 | - | - | 74 | -24.78 | 68.2 | -18.98 | 300 | 314 | H |
| 5 | 10.597 | 38.46 | PK-U | 37.9 | -26.4 | 0 | 49.96 | - | - | 74 | -24.04 | 68.2 | -18.24 | 203 | 103 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/Dif/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dB/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|--------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 4 | * 3.547 | 45.67 | PK-U | 32.9 | -32.8 | 0 | 45.77 | - | 74 | -28.23 | 68.2 | -22.43 | 200 | 109 | V | |
| | * 3.547 | 40.57 | ADR | 32.9 | -32.8 | .1 | 40.77 | 54 | -13.23 | - | - | - | 200 | 109 | V | |
| 2 | * 10.637 | 39.8 | PK-U | 37.9 | -25.6 | 0 | 52.1 | - | 74 | -21.9 | 68.2 | -16.1 | 161 | 105 | H | |
| | * 10.637 | 28.77 | ADR | 37.9 | -25.6 | .1 | 41.17 | 54 | -12.83 | - | - | - | 161 | 105 | H | |
| 3 | * 15.967 | 41.07 | PK-U | 40.7 | -23.6 | 0 | 58.17 | - | 74 | -15.83 | 68.2 | -10.03 | 147 | 196 | H | |
| | * 15.964 | 30.17 | ADR | 40.7 | -23.6 | .1 | 47.37 | 54 | -6.63 | - | - | - | 147 | 196 | H | |
| 5 | * 10.64 | 46.28 | PK-U | 37.9 | -25.5 | 0 | 58.68 | - | 74 | -15.32 | 68.2 | -9.52 | 155 | 141 | V | |
| | * 10.64 | 35.87 | ADR | 37.9 | -25.5 | .1 | 48.37 | 54 | -5.63 | - | - | - | 155 | 141 | V | |
| 6 | * 15.963 | 42.42 | PK-U | 40.7 | -23.5 | 0 | 59.62 | - | 74 | -14.38 | 68.2 | -8.58 | 205 | 109 | V | |
| | * 15.963 | 31.02 | ADR | 40.7 | -23.6 | .1 | 48.22 | 54 | -5.78 | - | - | - | 205 | 109 | V | |
| 1 | 2.399 | 31.04 | ADR | 32.2 | -34.7 | .1 | 28.64 | 54 | -25.36 | - | - | - | 163 | 199 | H | |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

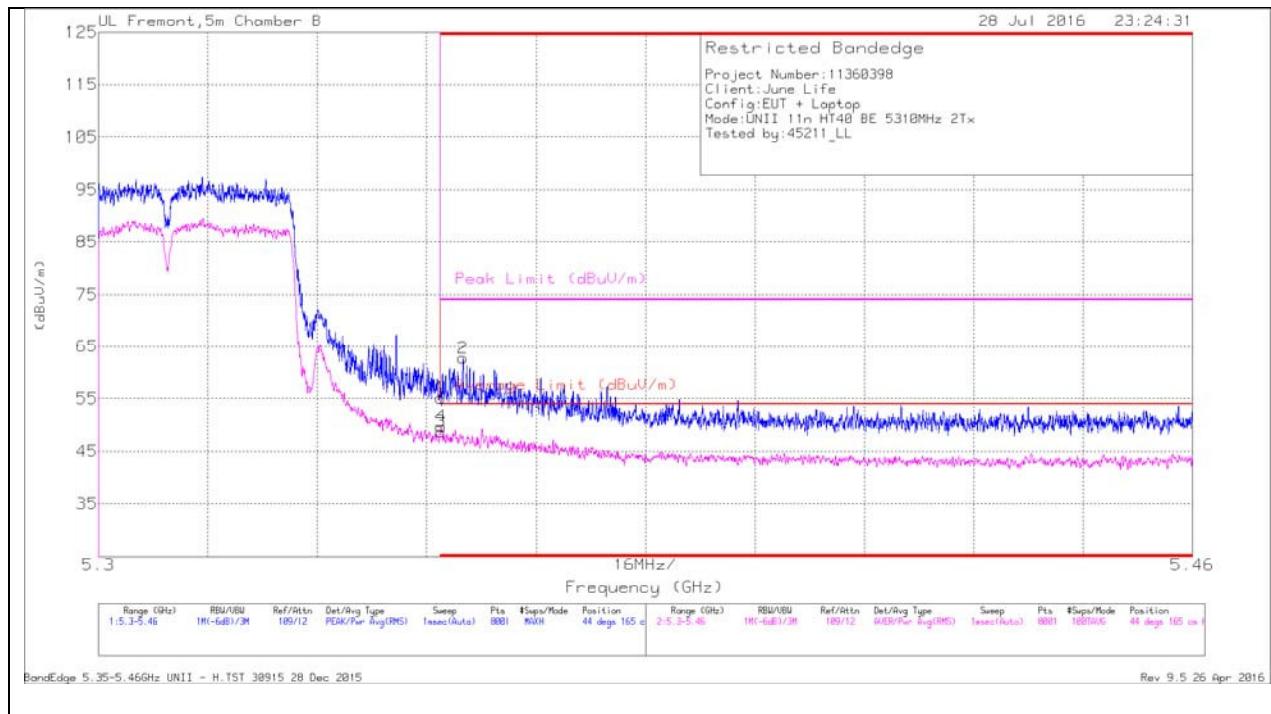
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.2.6. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULTS



Trace Markers

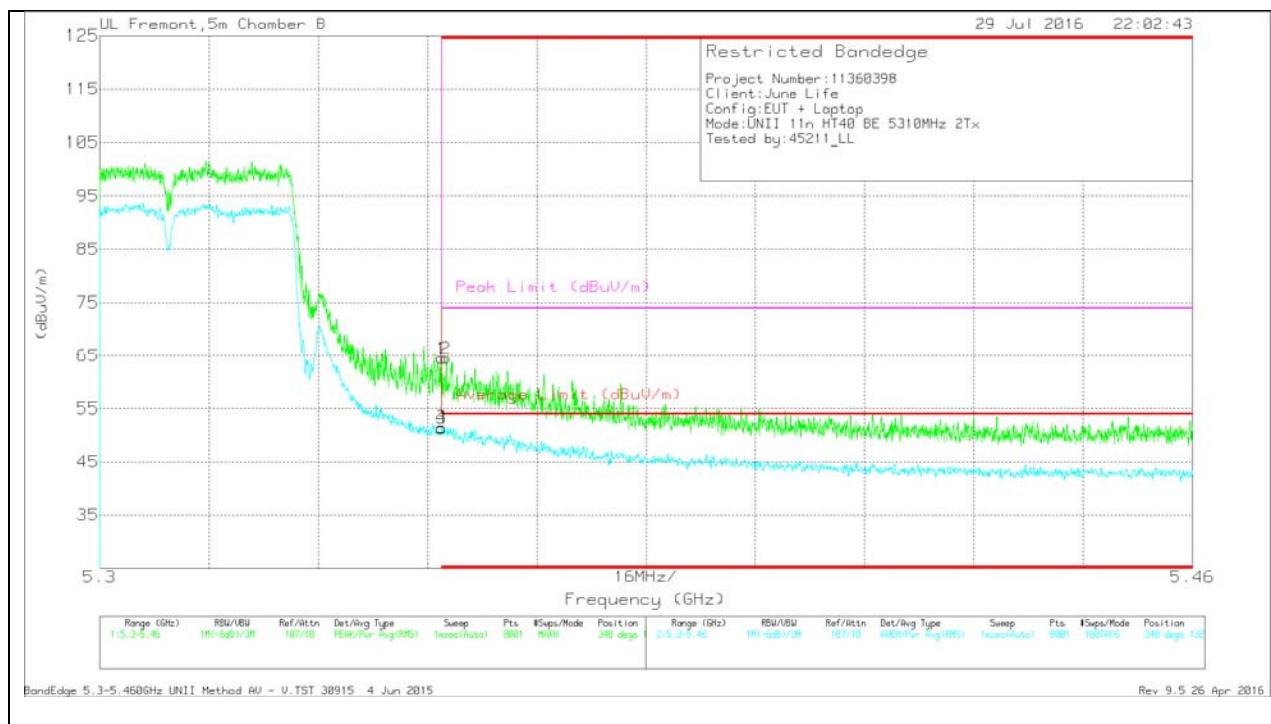
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 40.97 | Pk | 34.5 | -20.3 | 0 | 55.17 | - | - | 74 | -18.83 | 44 | 165 | H |
| 3 | * 5.35 | 34.3 | RMS | 34.5 | -20.3 | .17 | 48.67 | 54 | -5.33 | - | - | 44 | 165 | H |
| 4 | * 5.35 | 35.26 | RMS | 34.5 | -20.3 | .17 | 49.63 | 54 | -4.37 | - | - | 44 | 165 | H |
| 2 | * 5.353 | 48.32 | Pk | 34.5 | -20.1 | 0 | 62.72 | - | - | 74 | -11.28 | 44 | 165 | H |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 52.67 | Pk | 34.5 | -22.7 | 0 | 64.47 | - | - | 74 | -9.53 | 340 | 132 | V |
| 3 | * 5.35 | 39.38 | RMS | 34.5 | -22.7 | .17 | 51.35 | 54 | -2.65 | - | - | 340 | 132 | V |
| 4 | * 5.35 | 39.46 | RMS | 34.5 | -22.7 | .17 | 51.43 | 54 | -2.57 | - | - | 340 | 132 | V |
| 2 | * 5.351 | 52.68 | Pk | 34.5 | -22.7 | 0 | 64.48 | - | - | 74 | -9.52 | 340 | 132 | V |

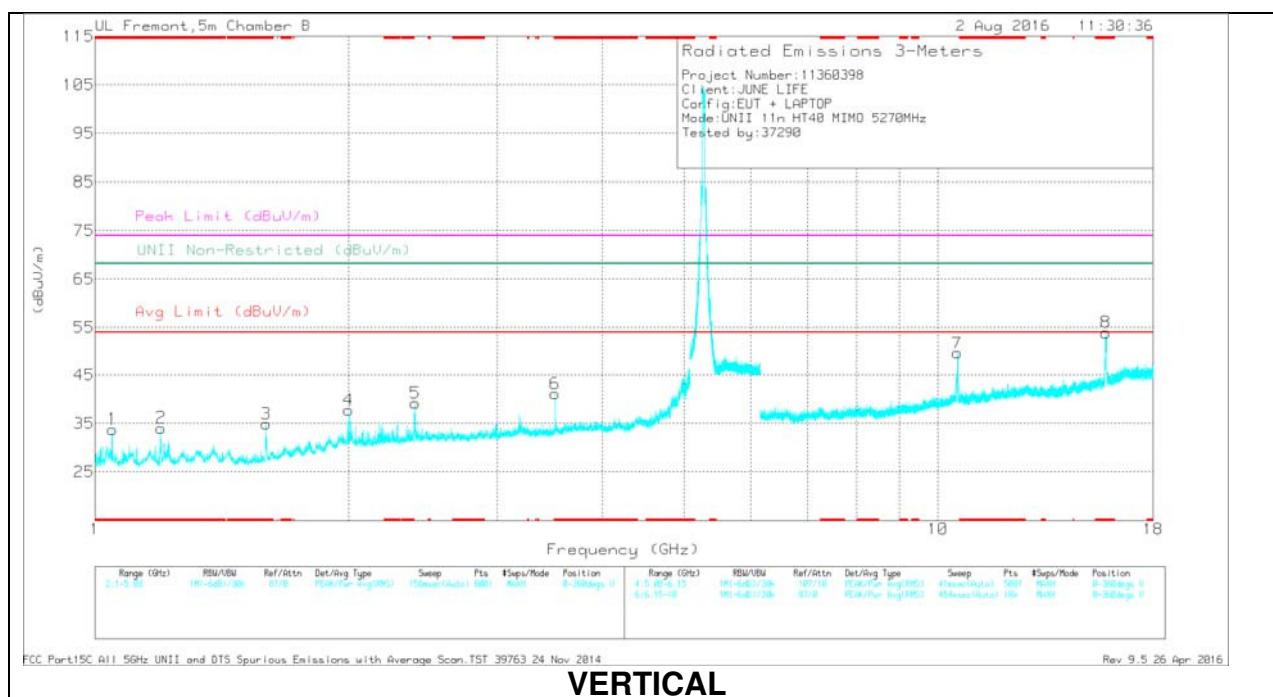
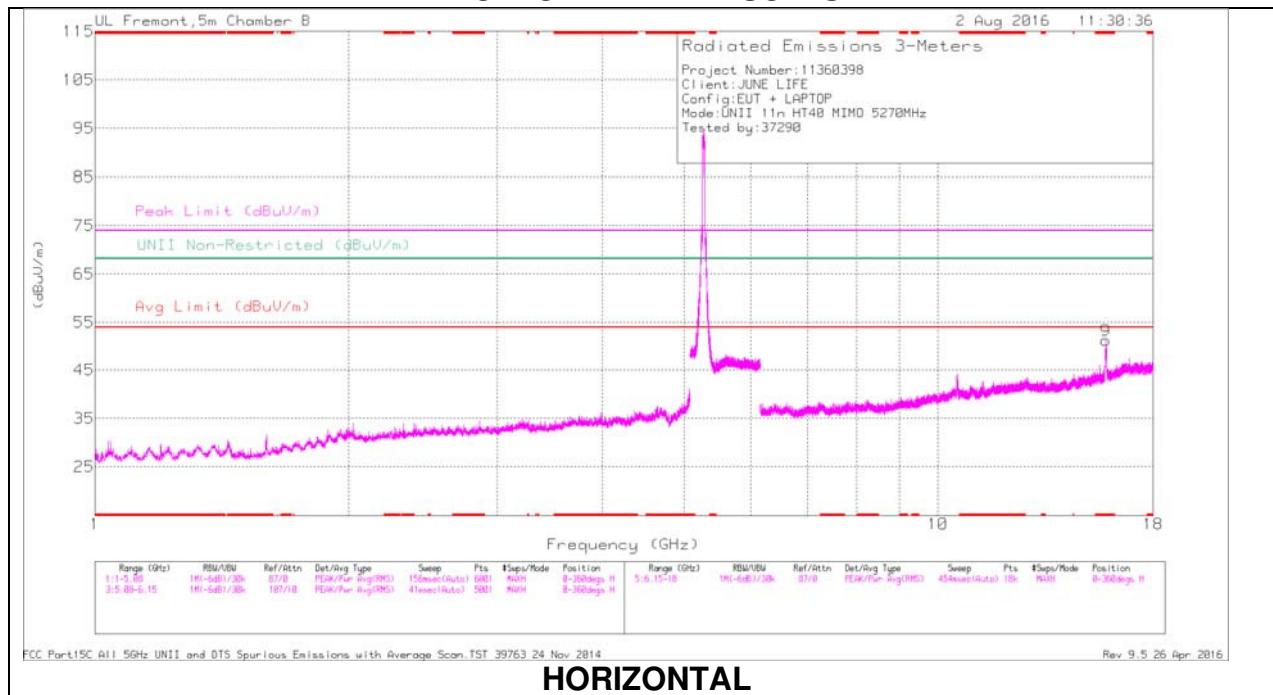
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



LOW CHANNEL DATA

Trace Markers

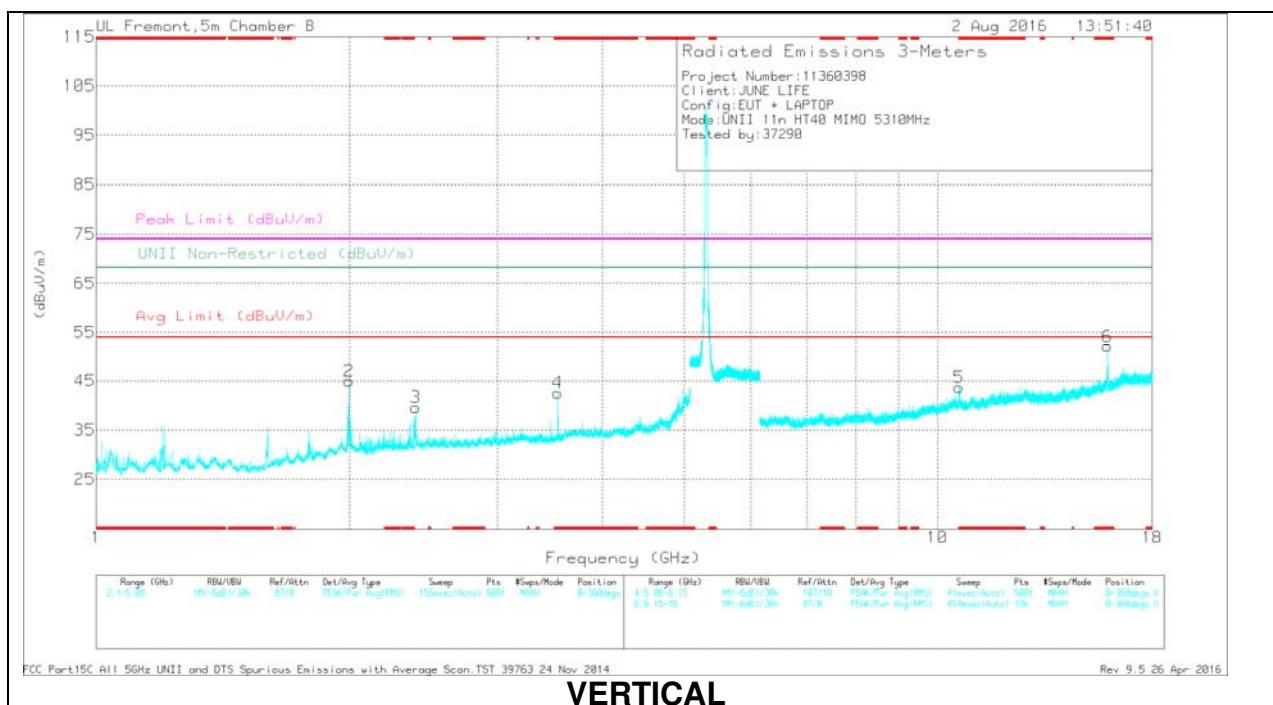
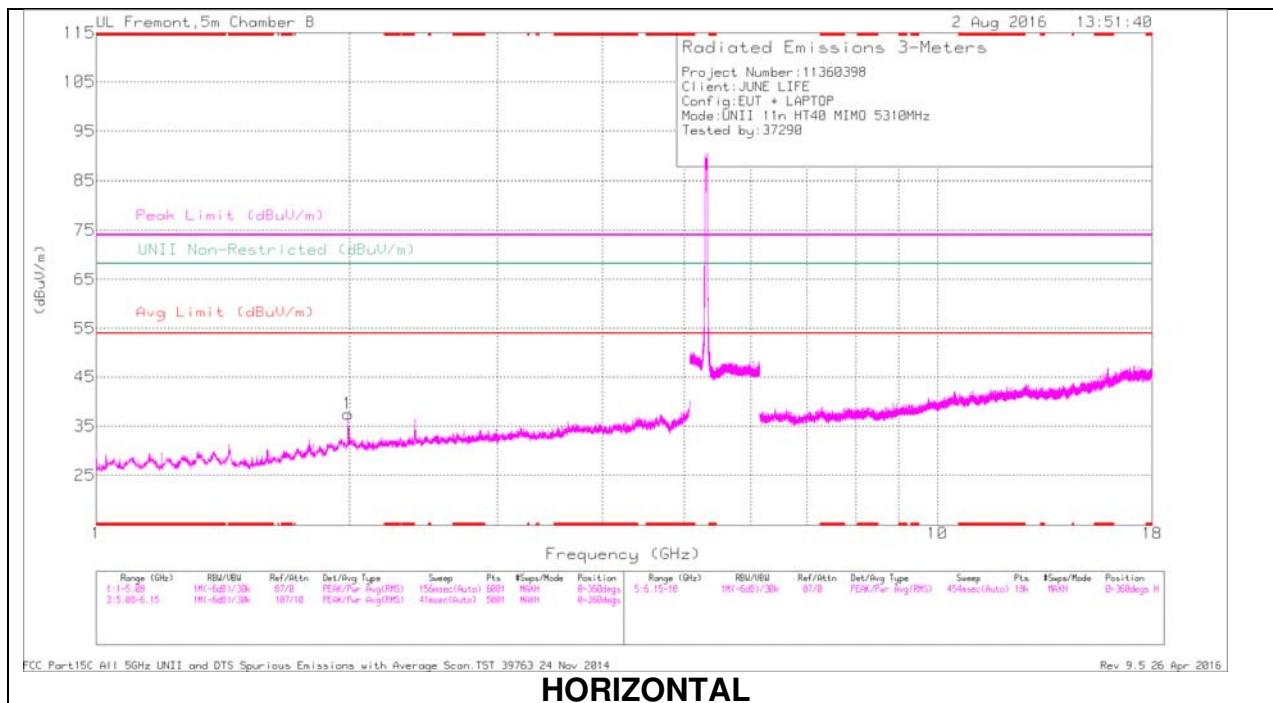
| Marker | Frequency (GHz) | Meter Reading (dBmV) | Dst | AF1345 (dB/m) | Amp/Cfltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV) | Avg Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | UNII Non-Restricted (dBmV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------------|--------------|--------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.049 | 45.79 | PK-U | 27.8 | -35.8 | 0 | 37.79 | - | - | 74 | -36.21 | 68.2 | -30.41 | 177 | 234 | V |
| | * 1.047 | 31.51 | ADR | 27.8 | -35.8 | .17 | 23.68 | 54 | -30.32 | - | - | - | - | 177 | 234 | V |
| 2 | * 1.198 | 55.12 | PK-U | 28.3 | -35.8 | 0 | 47.62 | - | - | 74 | -26.38 | 68.2 | -20.58 | 37 | 291 | V |
| | * 1.198 | 34.37 | ADR | 28.3 | -35.8 | .17 | 27.04 | 54 | -26.96 | - | - | - | - | 37 | 291 | V |
| 3 | * 1.596 | 50.86 | PK-U | 28.1 | -35.2 | 0 | 43.76 | - | - | 74 | -30.24 | 68.2 | -24.44 | 219 | 316 | V |
| | * 1.596 | 34.48 | ADR | 28.1 | -35.2 | .17 | 27.55 | 54 | -26.45 | - | - | - | - | 219 | 316 | V |
| 6 | * 3.513 | 46.92 | PK-U | 32.9 | -33.2 | 0 | 46.62 | - | - | 74 | -27.38 | 68.2 | -21.58 | 200 | 107 | V |
| | * 3.513 | 40.42 | ADR | 32.9 | -33.2 | .17 | 40.29 | 54 | -13.71 | - | - | - | - | 200 | 107 | V |
| 9 | * 15.819 | 39.67 | PK-U | 40.6 | -23.3 | 0 | 56.97 | - | - | 74 | -17.03 | 68.2 | -11.23 | 130 | 183 | H |
| | * 15.82 | 29.19 | ADR | 40.6 | -23.3 | .17 | 46.66 | 54 | -7.34 | - | - | - | - | 130 | 183 | H |
| 8 | * 15.82 | 43.86 | PK-U | 40.6 | -23.4 | 0 | 61.06 | - | - | 74 | -12.94 | 68.2 | -7.14 | 193 | 115 | V |
| | * 15.82 | 32.53 | ADR | 40.6 | -23.3 | .17 | 50.0 | 54 | -4.0 | - | - | - | - | 193 | 115 | V |
| 4 | 1.998 | 54.71 | PK-U | 31.5 | -34.2 | 0 | 52.01 | - | - | 74 | -21.99 | 68.2 | -16.19 | 65 | 169 | V |
| 5 | 2.397 | 52.8 | PK-U | 32.2 | -34.6 | 0 | 50.4 | - | - | 74 | -23.6 | 68.2 | -17.8 | 277 | 106 | V |
| 7 | 10.54 | 47.93 | PK-U | 37.8 | -26.3 | 0 | 59.43 | - | - | 74 | -14.57 | 68.2 | -8.77 | 155 | 138 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/Cthr/Fthr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm/m) | Avg Limit (dBm/m) | Margin (dB) | Peak Limit (dBm/m) | PK Margin (dB) | UNII Non-Restricted (dBm/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|------------------------|--------------|---------------------------|-------------------|-------------|--------------------|----------------|-----------------------------|----------------|----------------|-------------|----------|
| 4 | * 3.54 | 46.3 | PK-U | 32.9 | -32.7 | 0 | 46.5 | - | - | 74 | -27.5 | 68.2 | -21.7 | 199 | 104 | V |
| | * 3.54 | 41.94 | ADR | 32.9 | -32.7 | .17 | 42.31 | 54 | -11.69 | - | - | - | - | 199 | 104 | V |
| 5 | * 10.617 | 40.26 | PK-U | 37.9 | -26 | 0 | 52.16 | - | - | 74 | -21.84 | 68.2 | -16.04 | 153 | 128 | V |
| | * 10.617 | 28.5 | ADR | 37.9 | -26 | .17 | 40.57 | 54 | -13.43 | - | - | - | - | 153 | 128 | V |
| 6 | * 15.92 | 38.37 | PK-U | 40.7 | -22.6 | 0 | 56.47 | - | - | 74 | -17.53 | 68.2 | -11.73 | 208 | 106 | V |
| | * 15.92 | 26.35 | ADR | 40.7 | -22.7 | .17 | 44.52 | 54 | -9.48 | - | - | - | - | 208 | 106 | V |
| 1 | 1.995 | 50.16 | PK-U | 31.5 | -34.1 | 0 | 47.56 | - | - | 74 | -26.44 | 68.2 | -20.64 | 75 | 187 | H |
| 2 | 2 | 54.6 | PK-U | 31.5 | -34.2 | 0 | 51.9 | - | - | 74 | -22.1 | 68.2 | -16.3 | 53 | 241 | V |
| 3 | 2.398 | 53.56 | PK-U | 32.2 | -34.7 | 0 | 51.06 | - | - | 74 | -22.94 | 68.2 | -17.14 | 274 | 132 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

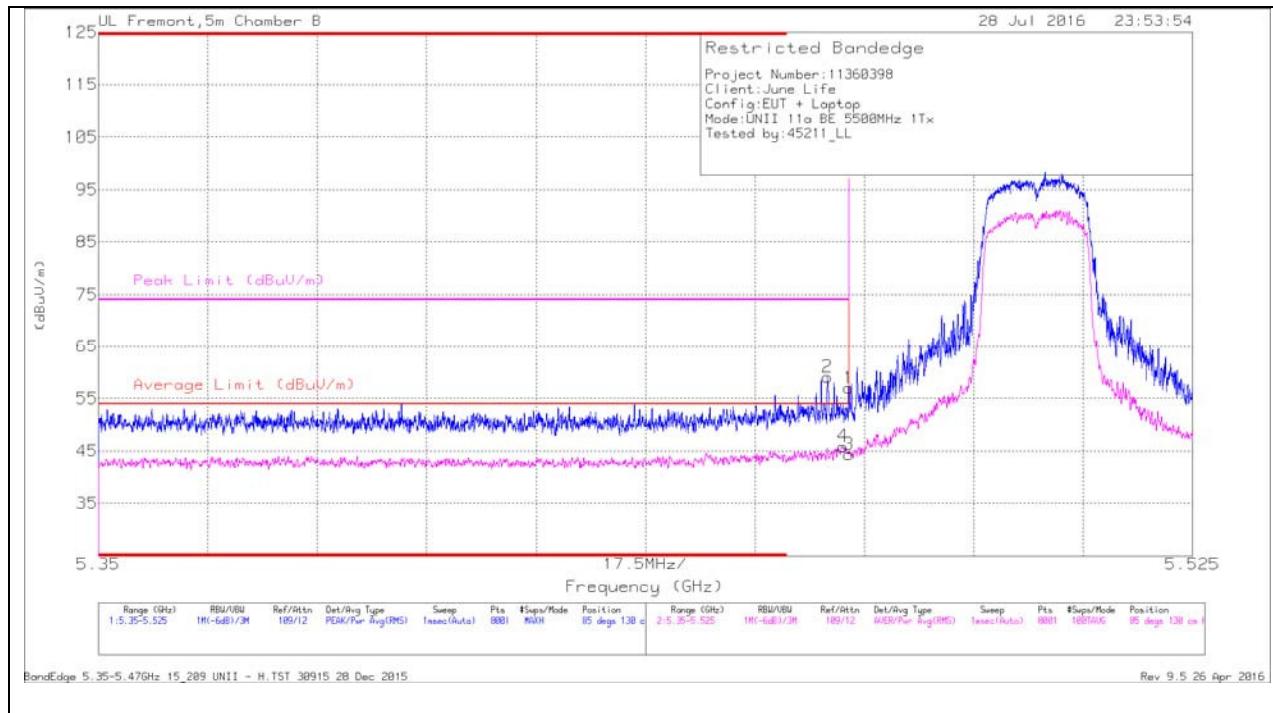
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.2.7. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

RESTRICTED BANEDGE (LOW CHANNEL)

HORIZONTAL RESULTS



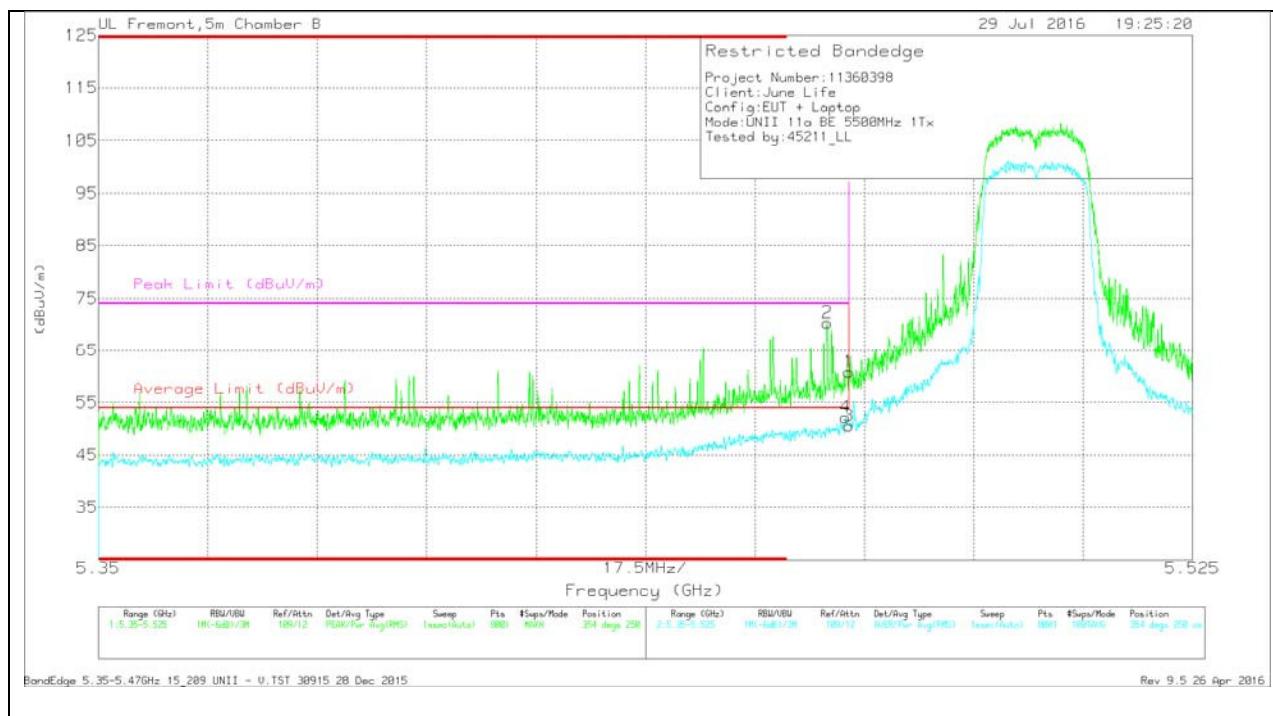
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | PK Margin (dB) | Azimuth (Deg) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|---------------|-------------|----------|
| 2 | 5.467 | 45.45 | Pk | 34.5 | -20.9 | 0 | 59.05 | - | - | 74 | -14.95 | 85 | 130 | H |
| 4 | 5.469 | 32.08 | RMS | 34.5 | -20.7 | 0 | 45.88 | 54 | -8.12 | - | - | 85 | 130 | H |
| 1 | 5.47 | 43.38 | Pk | 34.5 | -20.9 | 0 | 56.98 | - | - | 74 | -17.02 | 85 | 130 | H |
| 3 | 5.47 | 30.73 | RMS | 34.5 | -20.9 | 0 | 44.33 | 54 | -9.67 | - | - | 85 | 130 | H |

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

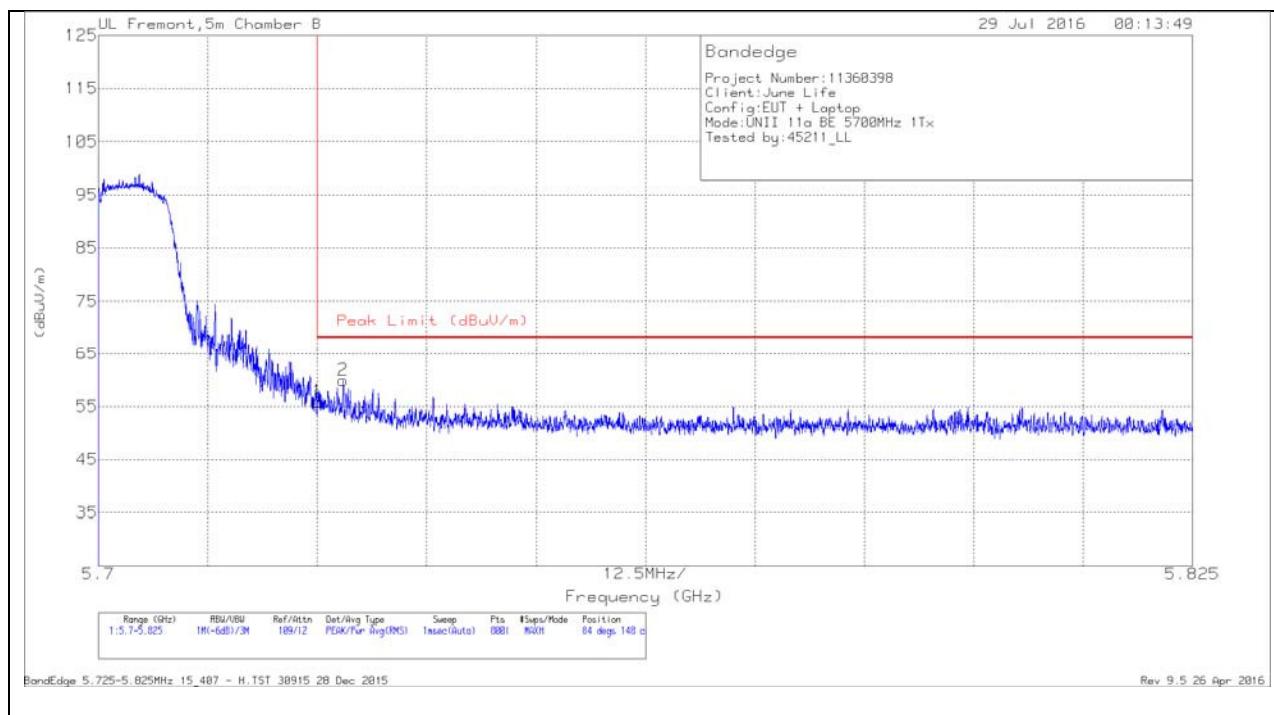
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | 5.467 | 56.74 | Pk | 34.5 | -20.9 | 0 | 70.34 | - | - | 74 | -3.66 | 354 | 250 | V |
| 1 | 5.47 | 47.24 | Pk | 34.5 | -20.9 | 0 | 60.84 | - | - | 74 | -13.16 | 354 | 250 | V |
| 3 | 5.47 | 36.97 | RMS | 34.5 | -20.9 | 0 | 50.57 | 54 | -3.43 | - | - | 354 | 250 | V |
| 4 | 5.47 | 38.48 | RMS | 34.5 | -20.8 | 0 | 52.18 | 54 | -1.82 | - | - | 354 | 250 | V |

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULTS

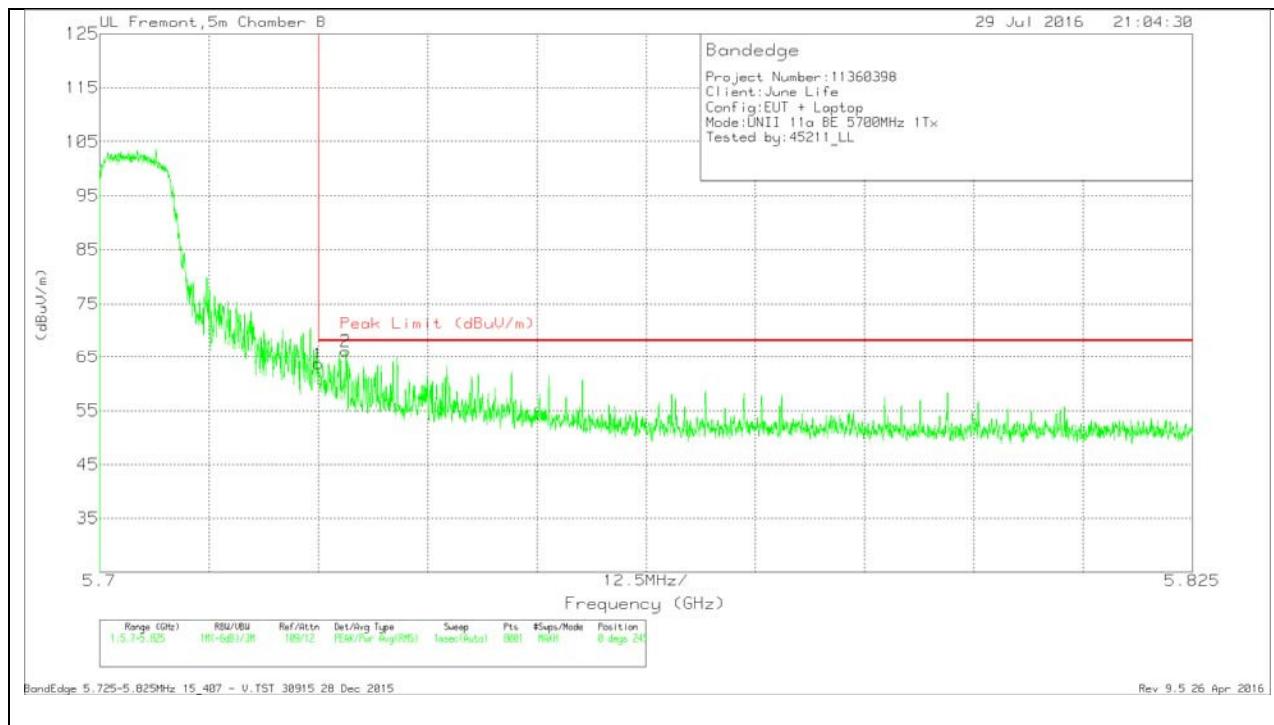


Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBm) | Peak Limit (dBm/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|-------------------------|--------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 42.75 | Pk | 34.9 | -21.7 | 55.95 | 68.2 | -12.25 | 84 | 148 | H |
| 2 | 5.728 | 46.63 | Pk | 34.9 | -21.6 | 59.93 | 68.2 | -8.27 | 84 | 148 | H |

Pk - Peak detector

VERTICAL RESULTS



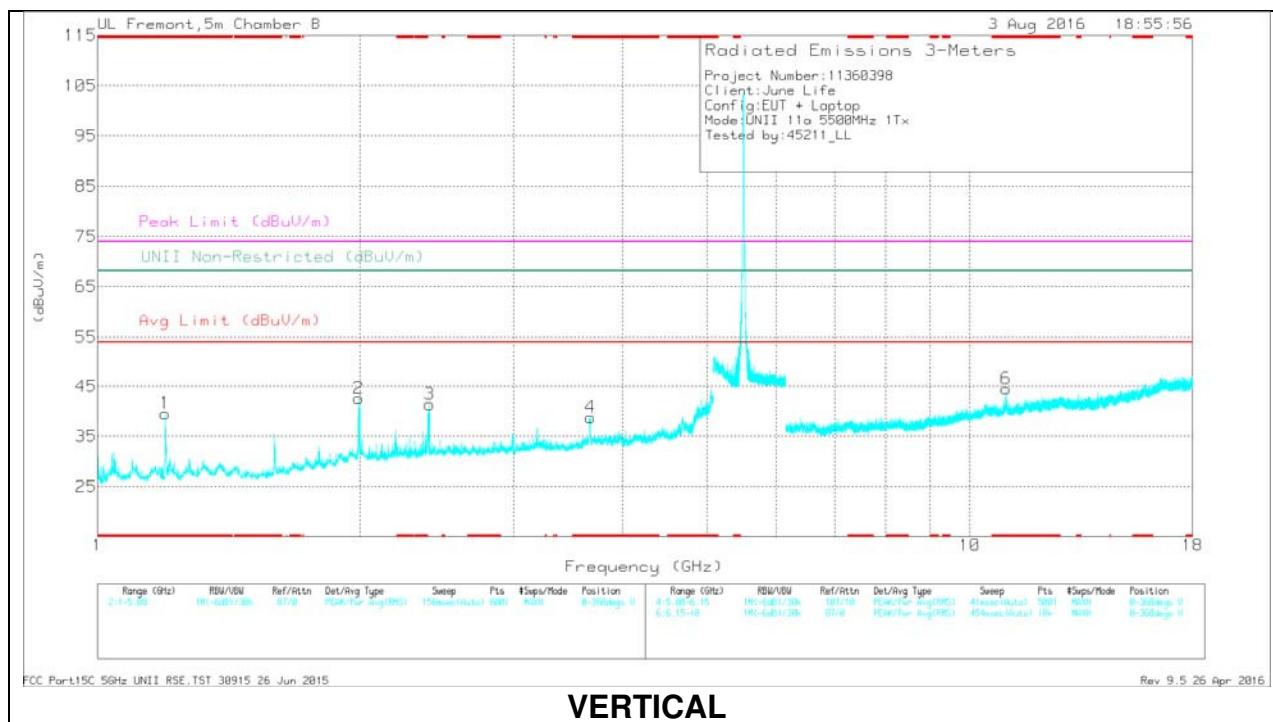
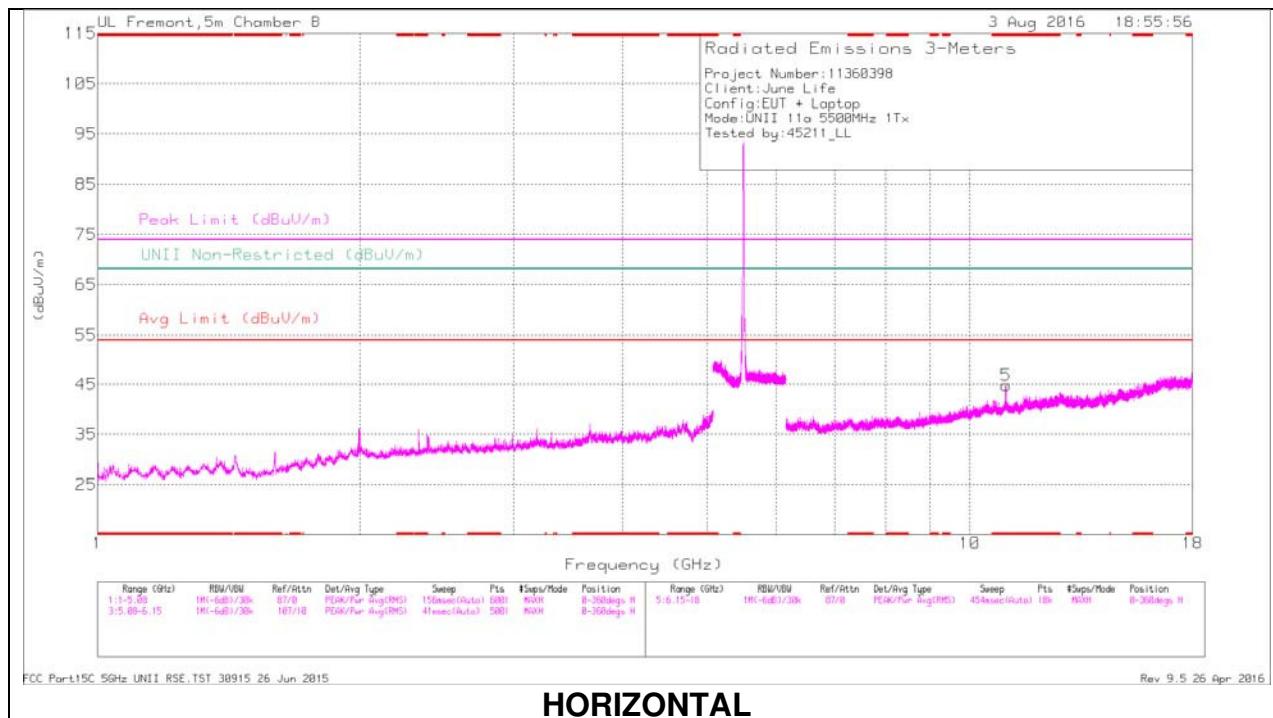
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 50.5 | Pk | 34.9 | -21.7 | 0 | 63.7 | 68.2 | -4.5 | 0 | 245 | V |
| 2 | 5.728 | 52.83 | Pk | 34.9 | -21.6 | 0 | 66.13 | 68.2 | -2.07 | 0 | 245 | V |

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



LOW CHANNEL DATA

Trace Markers

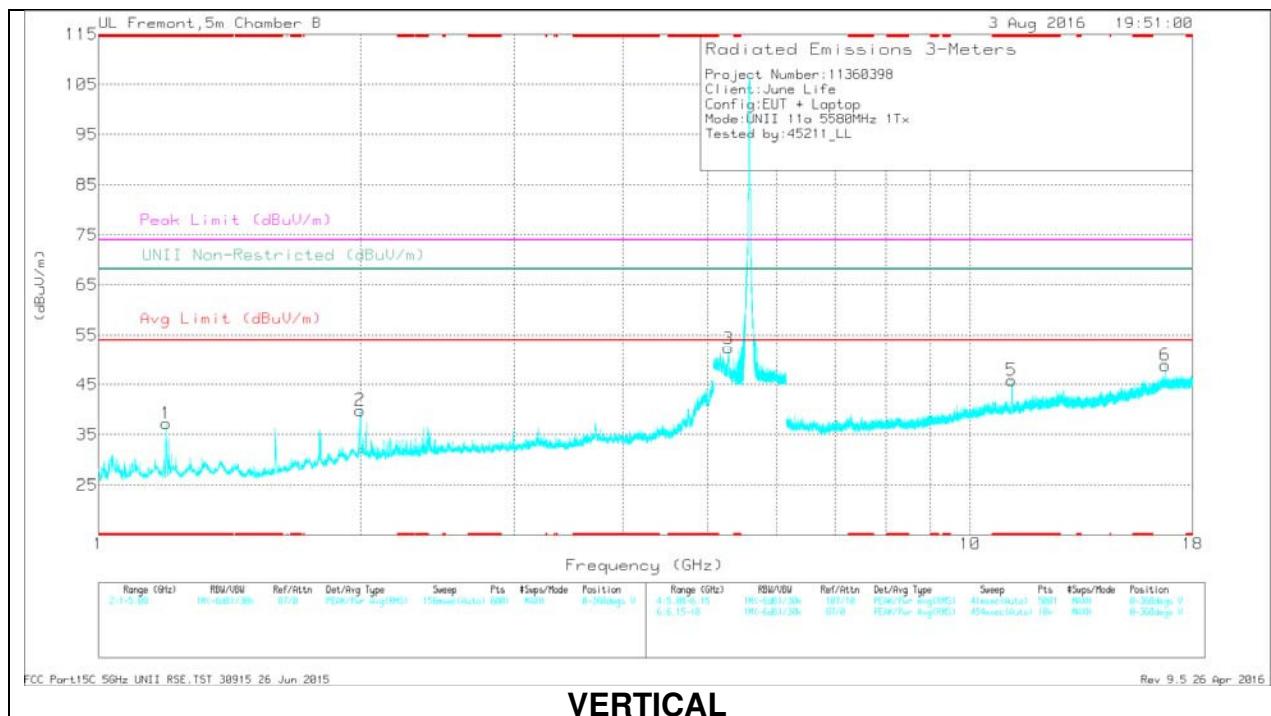
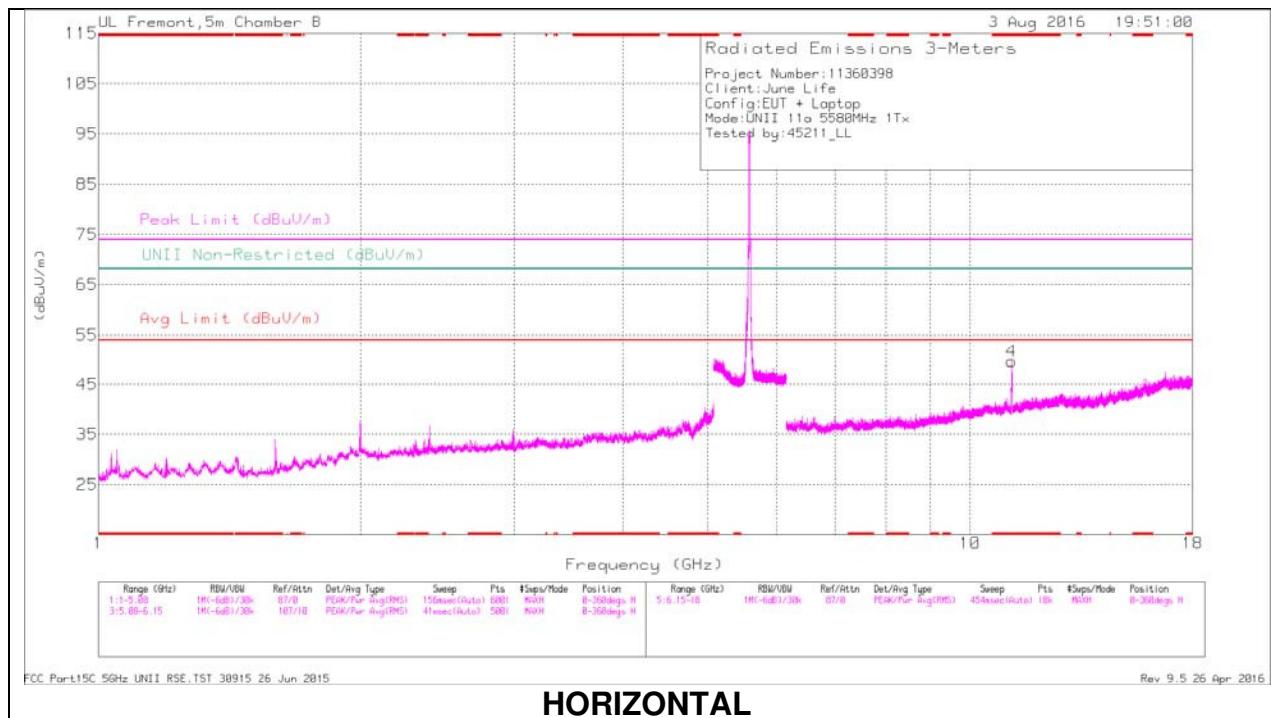
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Deps) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.199 | 54.25 | PK-U | 28.3 | -35.8 | 0 | 46.75 | - | - | 74 | -27.25 | - | - | 73 | 154 | V |
| | * 1.199 | 32.91 | ADR | 28.3 | -35.8 | 0 | 25.41 | 54 | -28.59 | - | - | - | - | 73 | 154 | V |
| 4 | * 3.671 | 45.96 | PK-U | 33.3 | -33.3 | 0 | 45.96 | - | - | 74 | -28.04 | - | - | 171 | 192 | V |
| | * 3.669 | 36.61 | ADR | 33.3 | -33.3 | 0 | 36.61 | 54 | -17.39 | - | - | - | - | 171 | 192 | V |
| 5 | * 11.003 | 40.9 | PK-U | 37.9 | -24.9 | 0 | 53.9 | - | - | 74 | -20.1 | - | - | 154 | 187 | H |
| | * 11.001 | 31.24 | ADR | 37.9 | -24.9 | 0 | 44.24 | 54 | -9.76 | - | - | - | - | 154 | 187 | H |
| 6 | * 10.999 | 40.25 | PK-U | 37.9 | -24.9 | 0 | 53.25 | - | - | 74 | -20.75 | - | - | 155 | 155 | V |
| | * 10.999 | 29.21 | ADR | 37.9 | -24.9 | 0 | 42.21 | 54 | -11.79 | - | - | - | - | 155 | 155 | V |
| 2 | 1.994 | 56.46 | PK-U | 31.5 | -34.1 | 0 | 53.86 | - | - | - | - | 68.2 | -14.34 | 64 | 172 | V |
| 3 | 2.399 | 51.77 | PK-U | 32.2 | -34.7 | 0 | 49.27 | - | - | - | - | 68.2 | -18.93 | 328 | 201 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



MID CHANNEL DATA

Trace Markers

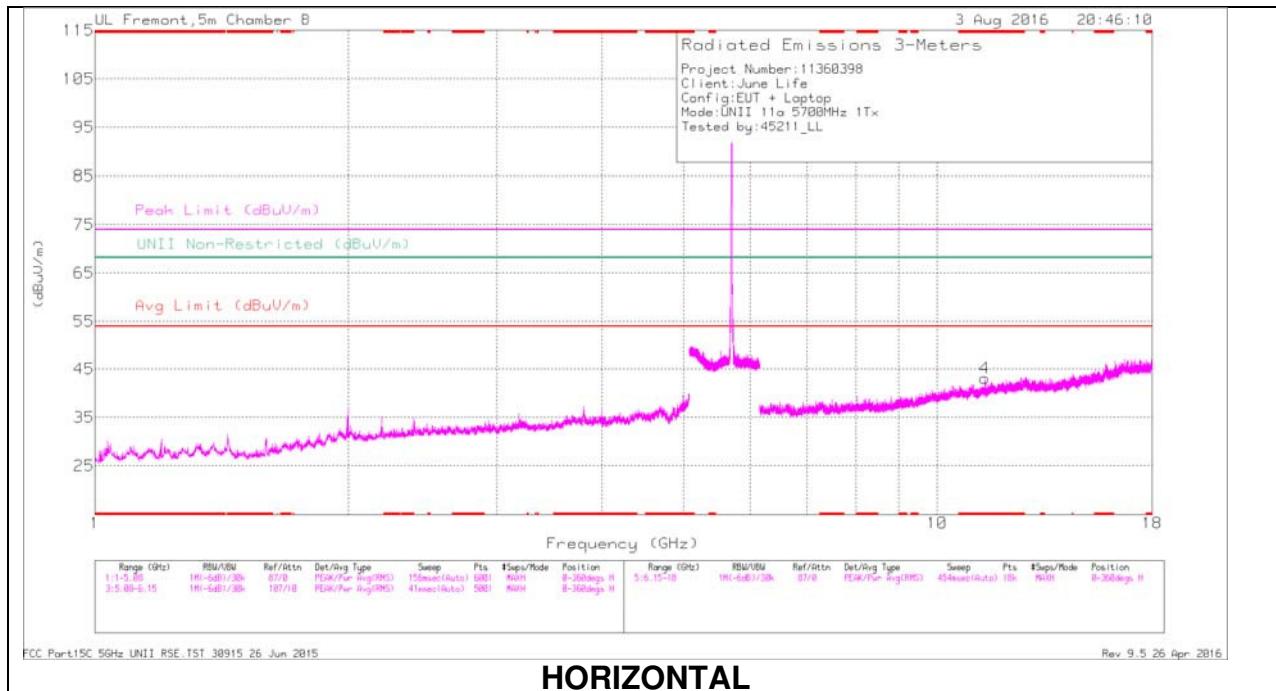
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T345 (dB/m) | Amp/Cdn/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Pk Margin (dB) | U-NII Non-Restricted (dBuV/m) | Pk Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.2 | 53.27 | PK-U | 28.3 | -35.8 | 0 | 45.77 | - | - | 74 | -28.23 | - | - | 81 | 229 | V |
| | * 1.196 | 32.29 | ADR | 28.3 | -35.8 | 0 | 24.79 | 54 | -29.21 | - | - | - | - | 81 | 229 | V |
| 4 | * 11.158 | 46.32 | PK-U | 38 | -26.1 | 0 | 58.22 | - | - | 74 | -15.78 | - | - | 153 | 194 | H |
| | * 11.16 | 35.6 | ADR | 38 | -26.1 | 0 | 47.5 | 54 | -6.5 | - | - | - | - | 153 | 194 | H |
| 5 | * 11.165 | 44.02 | PK-U | 38 | -26.1 | 0 | 55.92 | - | - | 74 | -18.08 | - | - | 215 | 129 | V |
| | * 11.16 | 33.98 | ADR | 38 | -26.1 | 0 | 45.88 | 54 | -8.12 | - | - | - | - | 215 | 129 | V |
| 2 | 1.998 | 48.39 | PK-U | 31.5 | -34.2 | 0 | 45.69 | - | - | - | - | 68.2 | -22.51 | 153 | 148 | V |
| 3 | 5.277 | 44.38 | PK-U | 34.4 | -20.2 | 0 | 58.58 | - | - | - | - | 68.2 | -9.62 | 168 | 190 | V |
| 6 | 16.736 | 36.5 | PK-U | 41.9 | -23.4 | 0 | 55 | - | - | - | - | 68.2 | -13.2 | 164 | 206 | V |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

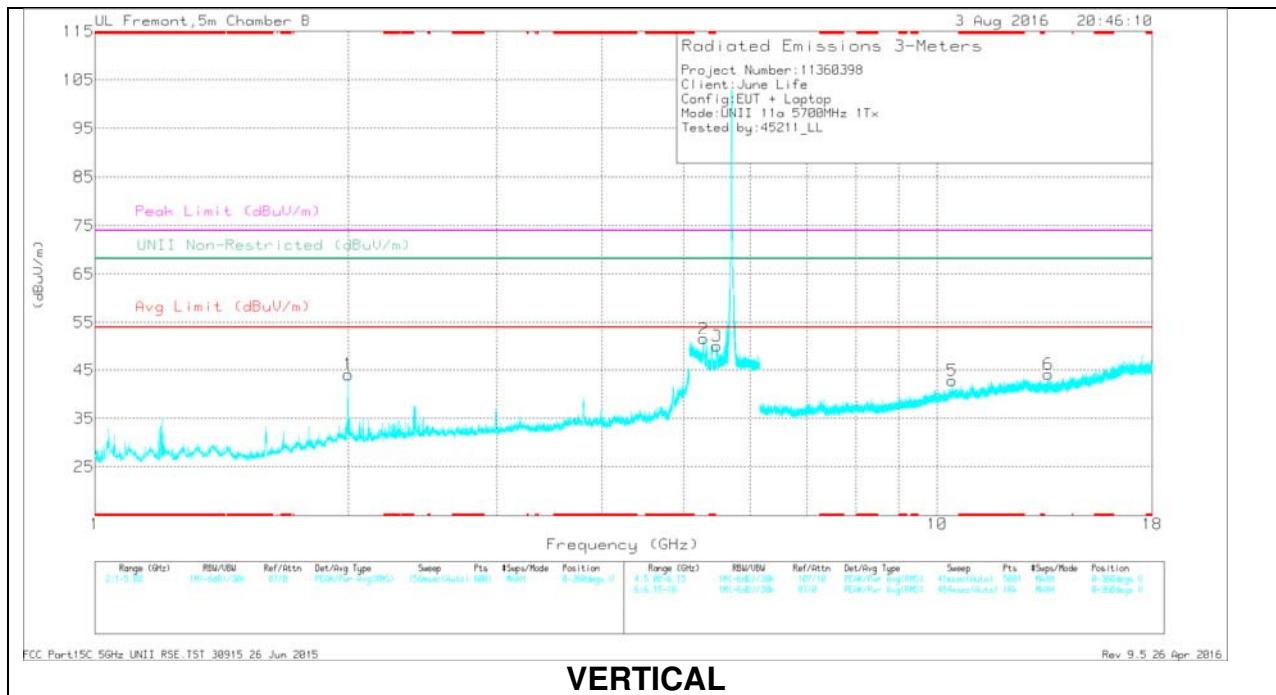
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Dct | AF T345 (dB/m) | Amp/O/I/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBm) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|----------------|-----------------------|--------------|-------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 4 | * 11.403 | 38.28 | PK-U | 38.2 | -26 | 0 | 50.48 | - | - | 74 | -23.52 | - | - | 152 | 189 | H |
| | * 11.402 | 27.71 | ADR | 38.2 | -26.1 | 0 | 39.81 | 54 | -14.19 | - | - | - | - | 152 | 189 | H |
| 1 | 1.998 | 54.84 | PK-U | 31.5 | -34.2 | 0 | 52.14 | - | - | - | 68.2 | -16.06 | 70 | 173 | V | |
| 2 | 5.274 | 42.53 | PK-U | 34.4 | -19.9 | 0 | 57.03 | - | - | - | 68.2 | -11.17 | 165 | 189 | V | |
| 3 | 5.478 | 42.91 | PK-U | 34.5 | -20.8 | 0 | 56.61 | - | - | - | 68.2 | -11.59 | 174 | 177 | V | |
| 5 | 10.412 | 35.12 | PK-U | 37.6 | -25.6 | 0 | 47.12 | - | - | - | 68.2 | -21.08 | 212 | 400 | V | |
| 6 | 13.553 | 34.73 | PK-U | 38.9 | -25.8 | 0 | 47.83 | - | - | - | 68.2 | -20.37 | 54 | 201 | V | |

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

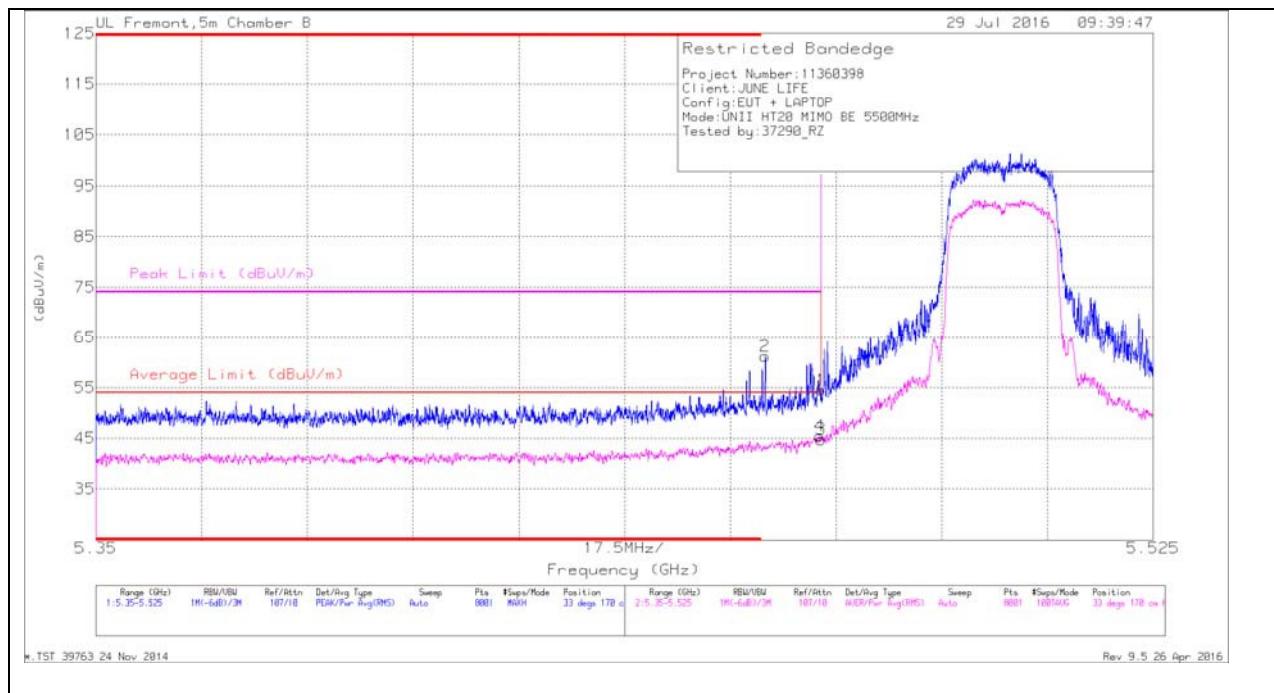
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

8.2.8. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULTS



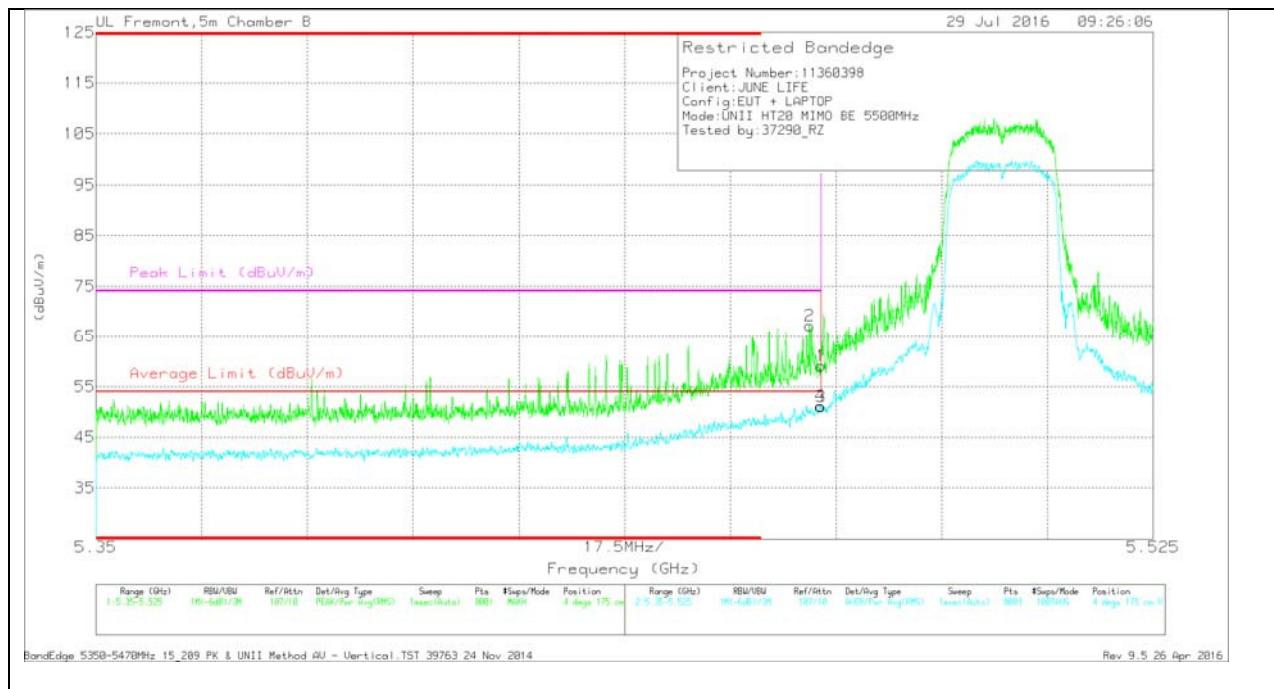
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBmV) | Det | AF T345 (dB/m) | Amp/Cbl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBmV/m) | Average Limit (dBmV/m) | Margin (dB) | Peak Limit (dBmV/m) | Pk Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | 5.461 | 47.58 | Pk | 34.5 | -20.9 | 0 | 61.18 | - | - | 74 | -12.82 | 33 | 170 | H |
| 1 | 5.47 | 40.91 | Pk | 34.5 | -20.9 | 0 | 54.51 | - | - | 74 | -19.49 | 33 | 170 | H |
| 3 | 5.47 | 31.07 | RMS | 34.5 | -20.9 | .1 | 44.77 | 54 | -9.23 | - | - | 33 | 170 | H |
| 4 | 5.47 | 31.64 | RMS | 34.5 | -20.8 | .1 | 45.44 | 54 | -8.56 | - | - | 33 | 170 | H |

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULTS



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltz/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | 5.468 | 53.44 | Pk | 34.5 | -20.8 | 0 | 67.14 | - | - | 74 | -6.86 | 4 | 175 | V |
| 1 | 5.47 | 45.53 | Pk | 34.5 | -20.9 | 0 | 59.13 | - | - | 74 | -14.87 | 4 | 175 | V |
| 3 | 5.47 | 37.28 | RMS | 34.5 | -20.9 | .1 | 50.98 | 54 | -3.02 | - | - | 4 | 175 | V |
| 4 | 5.47 | 37.37 | RMS | 34.5 | -20.8 | .1 | 51.17 | 54 | -2.83 | - | - | 4 | 175 | V |

Pk - Peak detector

RMS - RMS detection