



CERTIFICATION TEST REPORT

Report Number. : 12494553-E2V3

Applicant : IKEA OF SWEDEN AB
Box 702
SE-34381 Älmhult, SWEDEN

Model : E1801

FCC ID : FHO-E1801

IC : 10912A-E1801

EUT Description : Wireless Speaker Symfonisk

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
ISED RSS-247 ISSUE 2
ISED RSS-GEN ISSUE 5

Date Of Issue:
February 21, 2019

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NVLAP Lab code: 200065-0

REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	10/18/2018	Initial Issue	
V2	2/19/2019	Updated Section 8.5.7, 8.5.7 and 9.2	K.Kedida
V3	2/21/2019	Updated Section 8.5.7, 8.5.7	K.Kedida

TABLE OF CONTENTS

REPORT REVISION HISTORY	2
TABLE OF CONTENTS	3
1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>7</i>
4.2. <i>SAMPLE CALCULATION</i>	<i>7</i>
4.3. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
5. EQUIPMENT UNDER TEST	8
5.1. <i>EUT DESCRIPTION</i>	<i>8</i>
5.2. <i>MAXIMUM OUTPUT POWER.....</i>	<i>8</i>
5.3. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>9</i>
5.4. <i>SOFTWARE AND FIRMWARE.....</i>	<i>9</i>
5.5. <i>WORST-CASE CONFIGURATION AND MODE.....</i>	<i>9</i>
5.6. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>10</i>
6. MEASUREMENT METHOD.....	12
7. TEST AND MEASUREMENT EQUIPMENT	13
8. ANTENNA PORT TEST RESULTS	14
8.1. <i>ON TIME AND DUTY CYCLE.....</i>	<i>14</i>
8.2. <i>26 dB BANDWIDTH.....</i>	<i>16</i>
8.2.1. <i>802.11a MODE IN THE 5.2 GHz BAND.....</i>	<i>17</i>
8.2.2. <i>802.11n HT20 MODE IN THE 5.2 GHz BAND</i>	<i>19</i>
8.2.3. <i>802.11a MODE IN THE 5.3 GHz BAND.....</i>	<i>21</i>
8.2.4. <i>802.11n HT20 MODE IN THE 5.3 GHz BAND</i>	<i>23</i>
8.2.5. <i>802.11a MODE IN THE 5.6 GHz BAND.....</i>	<i>25</i>
8.2.6. <i>802.11n HT20 MODE IN THE 5.6 GHz BAND</i>	<i>27</i>
8.2.7. <i>802.11a MODE IN THE 5.8 GHz BAND.....</i>	<i>29</i>
8.2.8. <i>802.11n HT20 MODE IN THE 5.8 GHz BAND</i>	<i>31</i>
8.3. <i>99% BANDWIDTH.....</i>	<i>33</i>
8.3.1. <i>802.11a MODE IN THE 5.2 GHz BAND.....</i>	<i>34</i>
8.3.2. <i>802.11n HT20 MODE IN THE 5.2 GHz BAND</i>	<i>36</i>
8.3.3. <i>802.11a MODE IN THE 5.3 GHz BAND.....</i>	<i>38</i>
8.3.4. <i>802.11n HT20 MODE IN THE 5.3 GHz BAND</i>	<i>40</i>
8.3.5. <i>802.11a MODE IN THE 5.6 GHz BAND.....</i>	<i>42</i>

8.3.6.	802.11n HT20 MODE IN THE 5.6 GHz BAND	44
8.3.7.	802.11a MODE IN THE 5.8 GHz BAND	46
8.3.8.	802.11n HT20 MODE IN THE 5.8 GHz BAND	48
8.4.	6 dB BANDWIDTH.....	50
8.4.1.	802.11a MODE IN THE 5.8 GHz BAND	51
8.4.2.	802.11n HT20 MODE IN THE 5.8 GHz BAND	53
8.5.	OUTPUT POWER AND PSD.....	55
8.5.1.	802.11a MODE IN THE 5.2 GHz BAND	59
8.5.2.	802.11n HT20 MODE IN THE 5.2 GHz BAND	61
8.5.3.	802.11a MODE IN THE 5.3 GHz BAND	63
8.5.4.	802.11n HT20 MODE IN THE 5.3 GHz BAND	65
8.5.5.	802.11a MODE IN THE 5.6 GHz BAND	67
8.5.6.	802.11n HT20 MODE IN THE 5.6 GHz BAND	69
8.5.7.	802.11a MODE IN THE 5.8 GHz BAND	71
8.5.8.	802.11n HT20 MODE IN THE 5.8 GHz BAND	73
9.	RADIATED TEST RESULTS.....	75
9.1.	TRANSMITTER ABOVE 1 GHz	76
9.1.1.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND	76
9.1.2.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND.....	84
9.1.3.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND	92
9.1.4.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND.....	100
9.1.5.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND	108
9.1.6.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND.....	118
9.1.7.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND	128
9.1.8.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND.....	138
9.2.	Worst Case Below 30 MHz	148
9.3.	Worst Case Below 1 GHz	149
9.4.	Worst Case 18-26 GHz.....	151
9.5.	Worst Case 26-40 GHz.....	153
10.	AC POWER LINE CONDUCTED EMISSIONS	155
10.1.1.	AC Power Line Norm	156
11.	SETUP PHOTOS.....	158

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Ikea of Sweden AB
Box 702
SE-34381 Älmhult, SWEDEN

EUT DESCRIPTION: Wireless Speaker Symfonisk

MODEL: E1801

SERIAL NUMBER: Conducted: 34-7E-5C-30-01-3E
Radiated: 34-7E-5C-30-01-26-9, 34-7E-5C-30-01-30-2

DATE TESTED: September 10 – 25, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Compliant
ISED RSS-247 Issue 2	Compliant
ISED RSS-GEN Issue 5	Compliant

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

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 the U.S. government.

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Reviewed By:



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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, FCC KDB 662911 D01 Multiple Transmitter Output v02r01, FCC KDB 789033 D02 v02r01, ANSI C63.10-2013, RSS-GEN Issue 5, and RSS-247 Issue 2.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, 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	47658 Kato Rd.
<input type="checkbox"/> Chamber A (IC:2324B-1)	<input type="checkbox"/> Chamber D (IC:22541-1)	<input type="checkbox"/> Chamber I (IC: 2324A-5)
<input checked="" type="checkbox"/> Chamber B (IC:2324B-2)	<input type="checkbox"/> Chamber E (IC:22541-2)	<input type="checkbox"/> Chamber J (IC: 2324A-6)
<input checked="" type="checkbox"/> Chamber C (IC:2324B-3)	<input type="checkbox"/> Chamber F (IC:22541-3)	<input type="checkbox"/> Chamber K (IC: 2324A-1)
	<input type="checkbox"/> Chamber G (IC:22541-4)	<input type="checkbox"/> Chamber L (IC: 2324A-3)
	<input type="checkbox"/> Chamber H (IC:22541-5)	

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0

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

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

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

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a Wirelss Speaker Symfonisk.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.2 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.2 GHz band, 2TX			
5180-5240	802.11a CDD	16.05	40.27
5180-5240	802.11n HT20 CDD	16.05	40.27

5.3 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.3 GHz band, 2TX			
5260 - 5320	802.11a CDD	21.01	126.18
5260 - 5320	802.11n HT20 CDD	21.03	126.77

5.6 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.6 GHz band, 2TX			
5500-5720	802.11a CDD	21.21	132.13
5500-5720	802.11n HT20 CDD	21.17	130.92

5.8 GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8 GHz band, 2TX			
5745-5825	802.11a CDD	15.04	31.92
5745-5825	802.11n HT20 CDD	18.44	69.82

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes the antennas with maximums gain per chain as follows:

Frequency (MHz)	Peak Antenna Gain (dBi)	
	Chain 0 (Horizontal Polarization)	Chain 1 (Vertical Polarization)
5150 – 5850	4.2	3.9

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 46.0-54150.

The test utility software used during testing was ART2-GUI v2.3.

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions 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.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

The fundamental of the EUT was investigated in two orientations vertical and horizontal orientation, it was determined that vertical orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in vertical orientation.

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

802.11a mode: 6 Mbps
802.11n HT20mode: MCS0

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	X201	SON-00000964	N/A
AC Adapter	Lenovo	ADLX65NLT2A	11S36200291ZZ200315AJU	N/A
Charging Base	Lenovo	X200	1S43R8781R934HPB	N/A

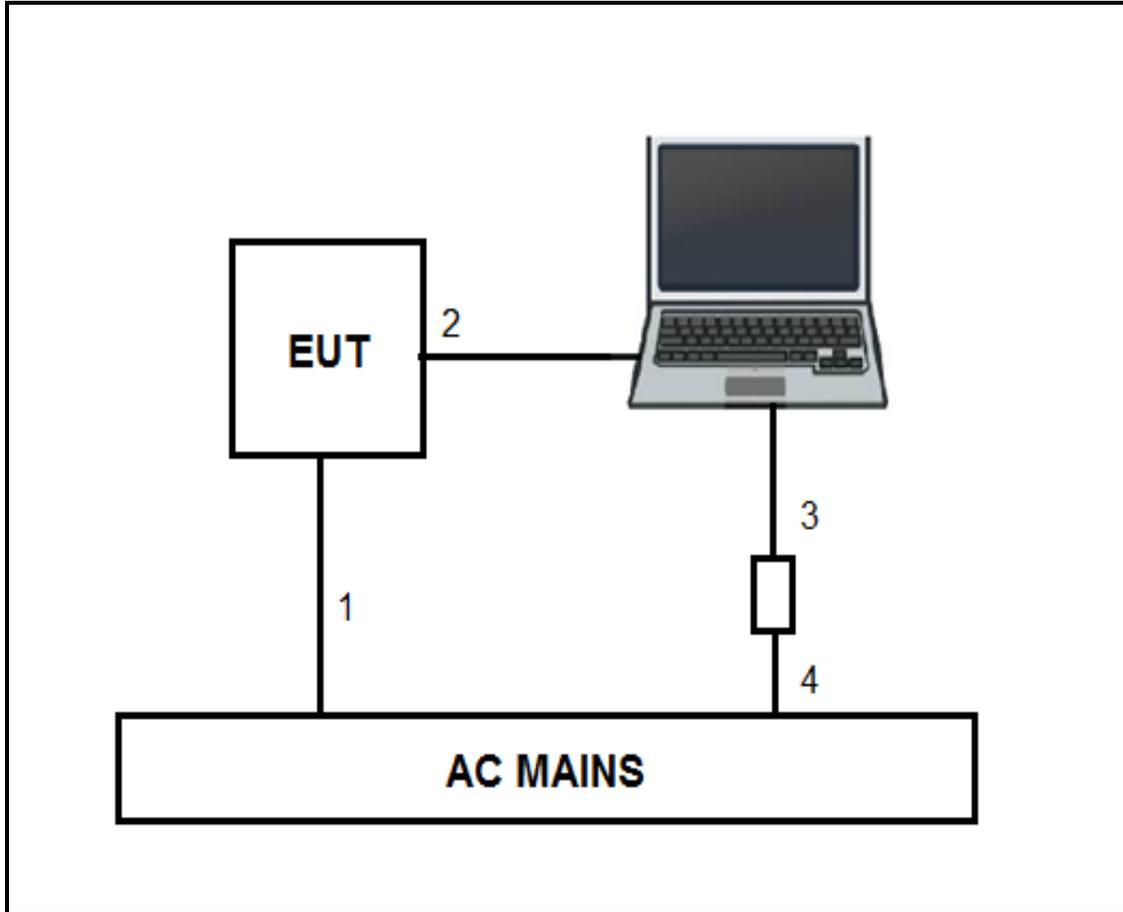
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC Power	1	AC	Unshielded	2	AC Mains to EUT
2	Ethernet	1	RJ45	Unshielded	10	EUT to Laptop
3	DC Power	1	DC	Shielded	1.2	AC/DC Adapter to Laptop
4	AC Power	1	AC	Unshielded	1	AC Mains to AC/DC Adapter

TEST SETUP

The EUT is a stand-alone unit, and the radio is exercised by ART2-GUI v2.3 test utility software via Ethernet.

SETUP DIAGRAM



6. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and KDB 789033 D02 v02r01, Section E.2.b (Method SA-1)

Power Spectral Density: KDB 789033 D02 v02r01, Section F

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

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

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	ID Num	Cal Due	Last Cal
Amplifier, 10KHz to 1GHz, 32dB	Agilent (Keysight) Technologies	8447D	T10	02/14/2019	02/14/2018
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	T407	05/10/2019	05/10/2018
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T863	06/21/2019	06/21/2018
RF Amplifier	MITEQ	AFS42-00101800-25-S-42	T739	08/30/2019	08/030/2018
Amplifier, 1 to 8GHz, 35dB	MITEQ	AMF-4D-01000800-30-29P	T1156	08/30/2019	08/30/2018
Filter, LPF 5.0GHz	MICRO-TRONICS	LPS17541	T482	08/30/2019	08/30/2018
Filter, HPF 6.0HPF	MICRO-TRONICS	HPS17542	T483	08/30/2019	08/30/2018
Power Meter, P-series single channel	Agilent (Keysight) Technologies	N1911A	T1271	07/17/2019	07/17/2018
Power Sensor, P-series, 50MHz to 18GHz, Wideband	Agilent (Keysight) Technologies	N1921A	T1225	04/10/2019	04/10/2018
Antenna, Active Loop 9kHz-30MHz	Com-Power Corp.	AL-130R	T1866	10/10/2018	10/10/2017
18 - 26.5 GHz Horn Antenna	Seavey Division	MWH-1826/B	T89	01/18/2019	01/18/2018
Pre-Amp 1-26.5 GHz	Agilent	8449B	T404	03/09/2019	03/09/2018
26.5 – 40 GHz Horn Antenna	Seavey Division	MWH 2640/B	T446	08/09/2019	08/09/2018
Pre-Amp 26-40GHz	MITEQ	NSTTA2640-35-HG	T1864	03/09/2019	03/09/2018
Spectrum Analyzer	Agilent (Keysight) Technologies	N9030A	T200	10/18/2018	10/18/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1113	12/21/2018	12/21/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1450	02/05/2019	02/05/2018
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1454	01/08/2019	01/08/2018
EMI Reciever	Rohde & Schwarz	ESR	T1436	02/23/2019	02/23/2018
L.I.S.N.	FCC INC.	FCC LISN 50/250	T1310	06/15/2019	06/15/2018

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver 9.5, Dec 01, 2016
Antenna Port Software	UL	UL RF	Ver 8.8, Sep 19, 2018

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

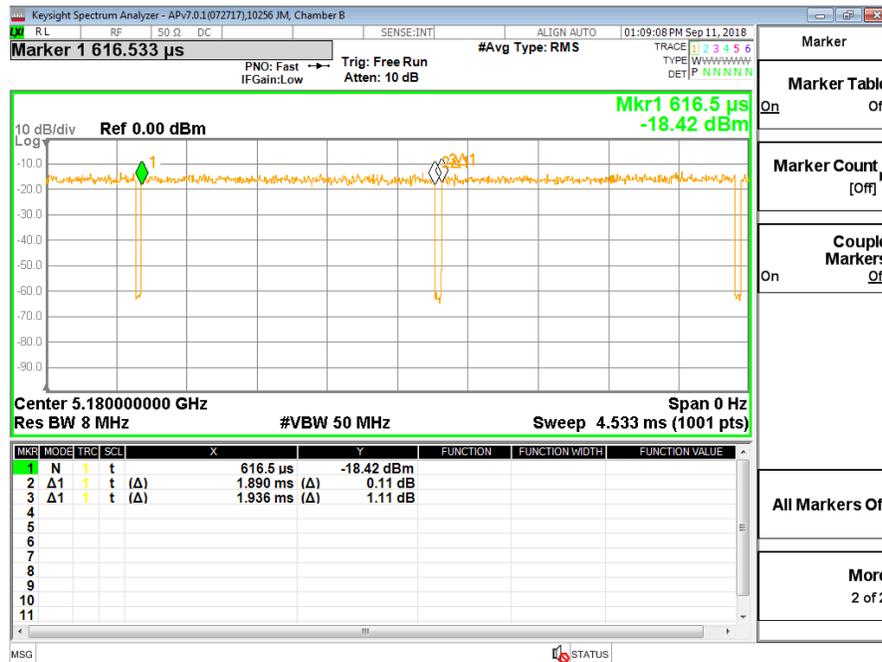
ON TIME AND DUTY CYCLE RESULTS

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 CDD	2.020	2.065	0.978	97.82%	0.10	0.495
802.11n HT20 CDD	1.890	1.936	0.976	97.62%	0.10	0.529

DUTY CYCLE PLOTS



DUTY CYCLE 802.11a CDD MODE



DUTY CYCLE 802.11n HT20 CDD MODE

8.2. 26 dB BANDWIDTH

LIMITS

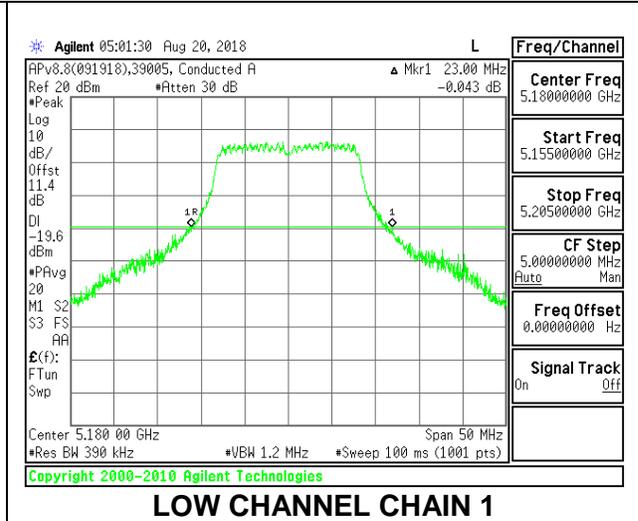
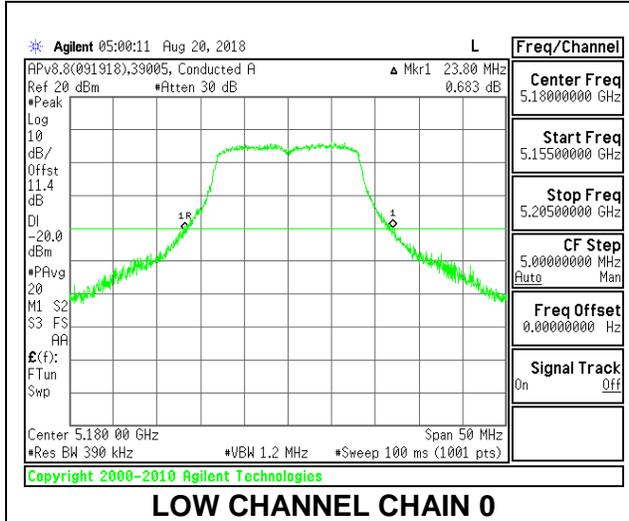
None; for reporting purposes only.

RESULTS

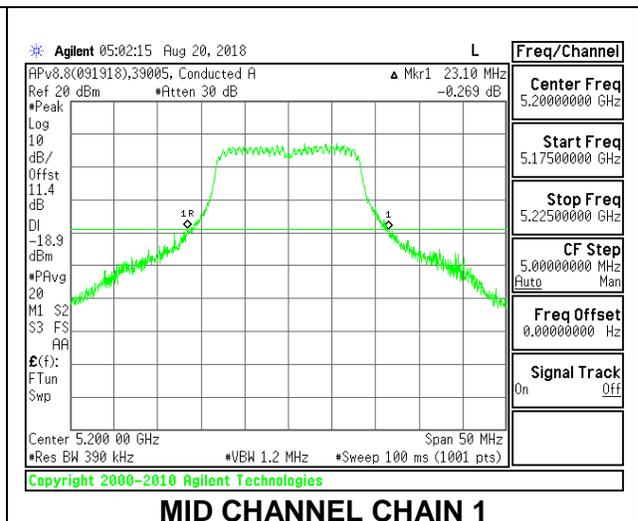
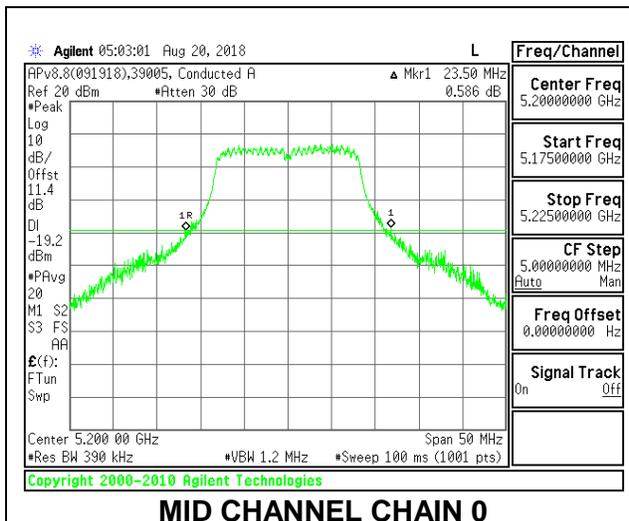
8.2.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5180	23.80	23.00
Mid	5200	23.50	23.10
High	5240	23.50	23.45

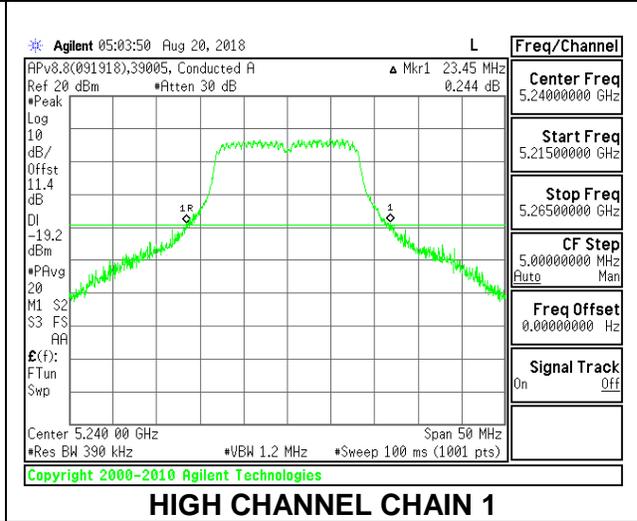
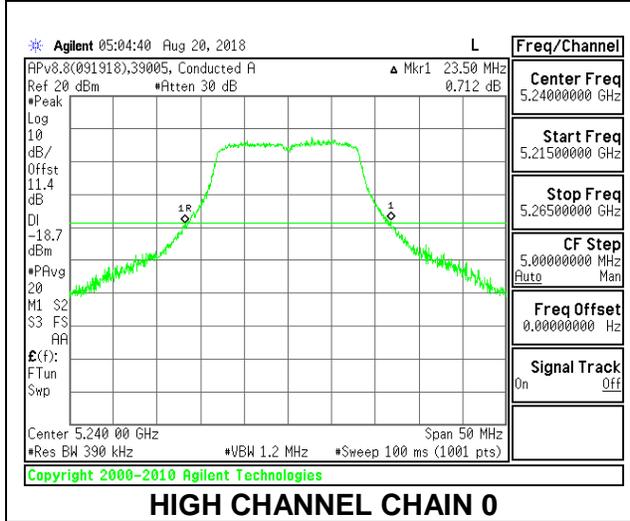
LOW CHANNEL



MID CHANNEL



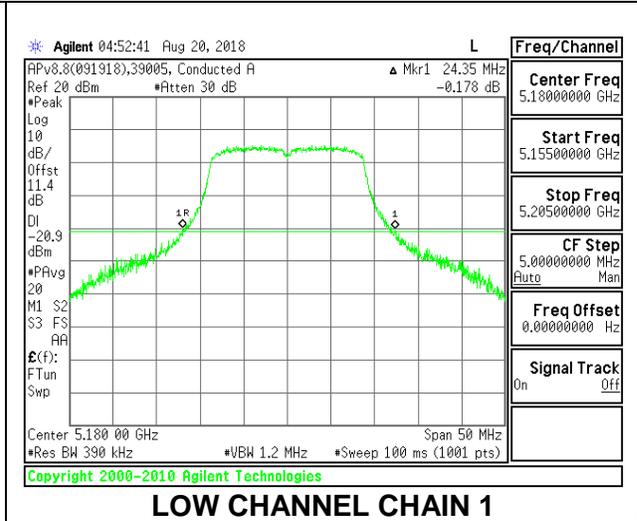
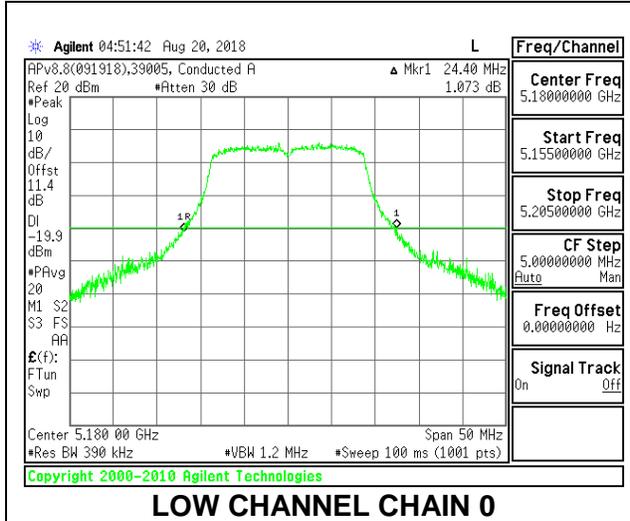
HIGH CHANNEL



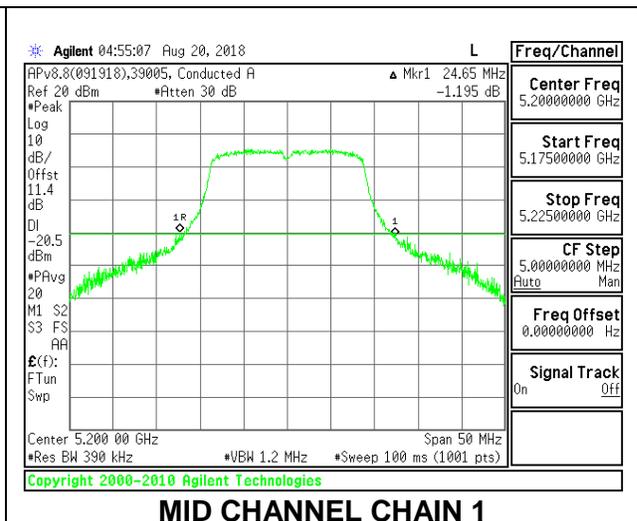
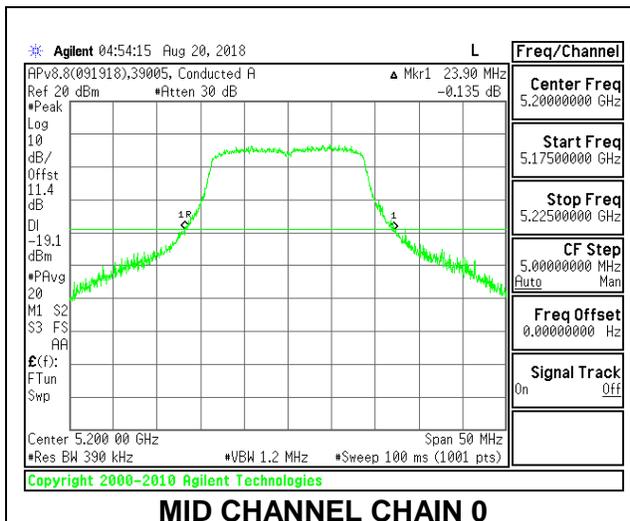
8.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5180	24.40	24.35
Mid	5200	23.90	24.65
High	5240	24.35	24.45

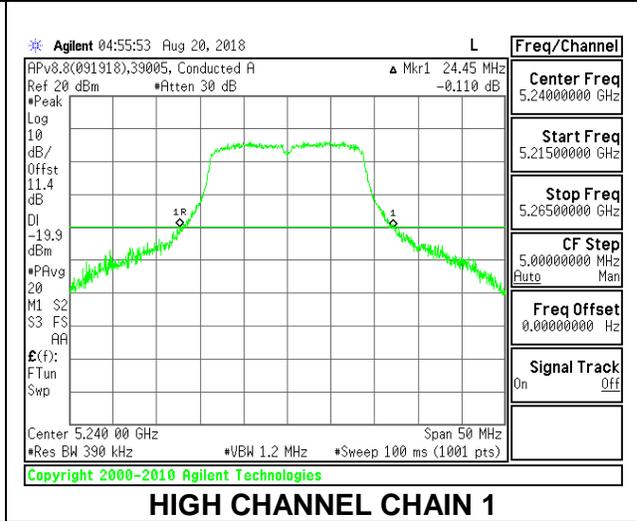
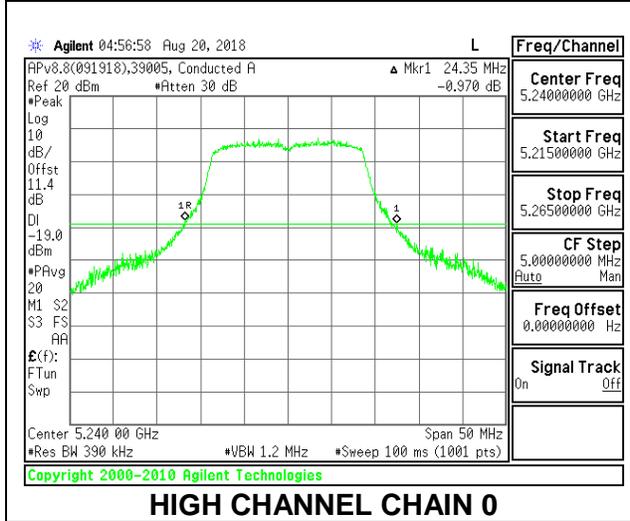
LOW CHANNEL



MID CHANNEL



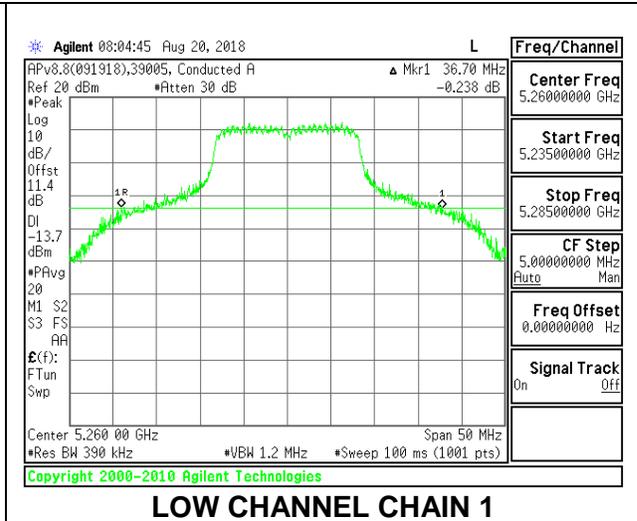
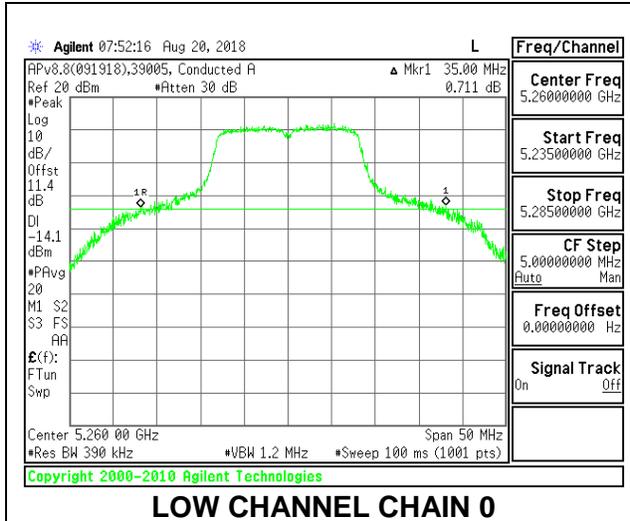
HIGH CHANNEL



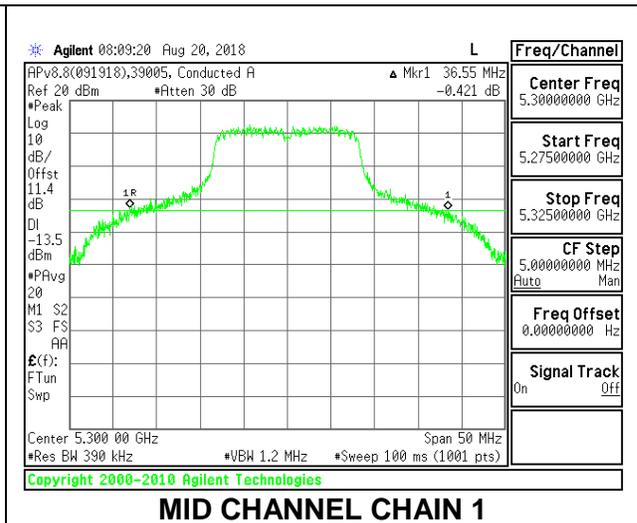
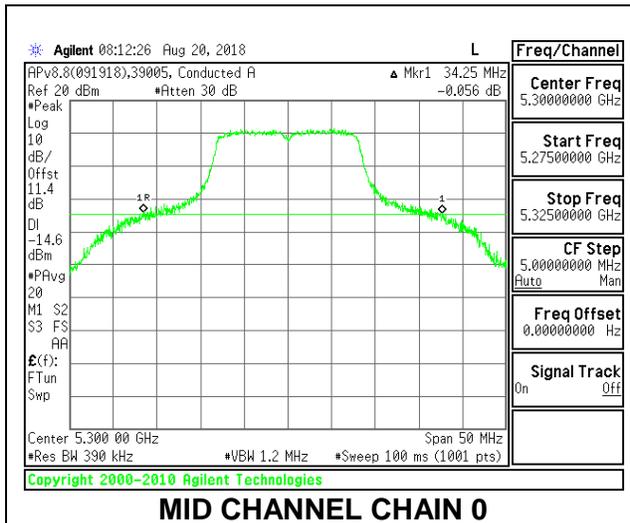
8.2.3. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5260	35.00	36.70
Mid	5300	34.25	36.55
High	5320	32.50	36.60

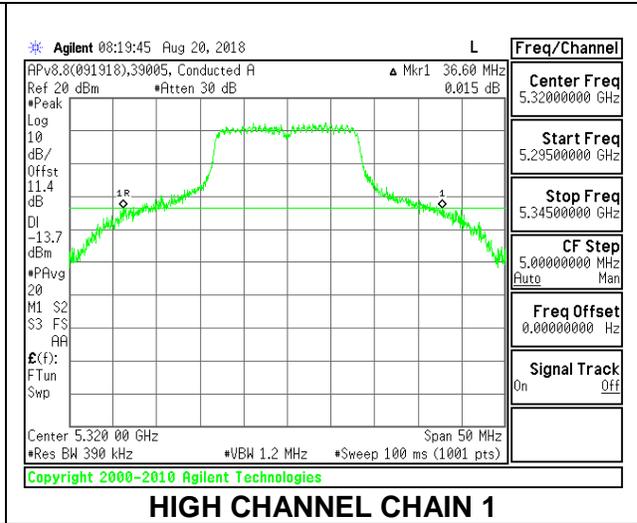
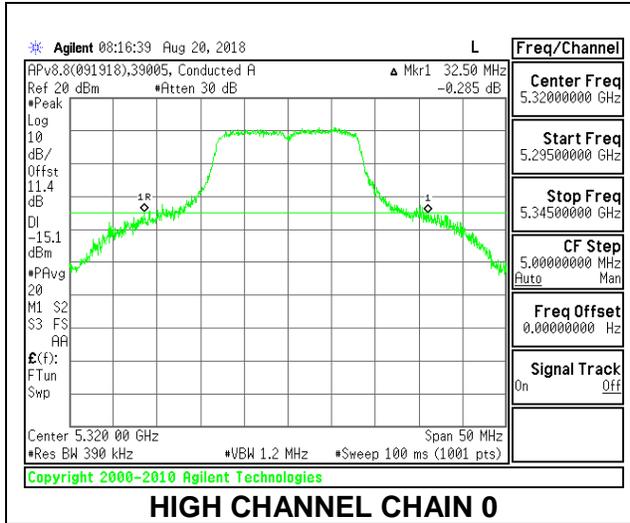
LOW CHANNEL



MID CHANNEL



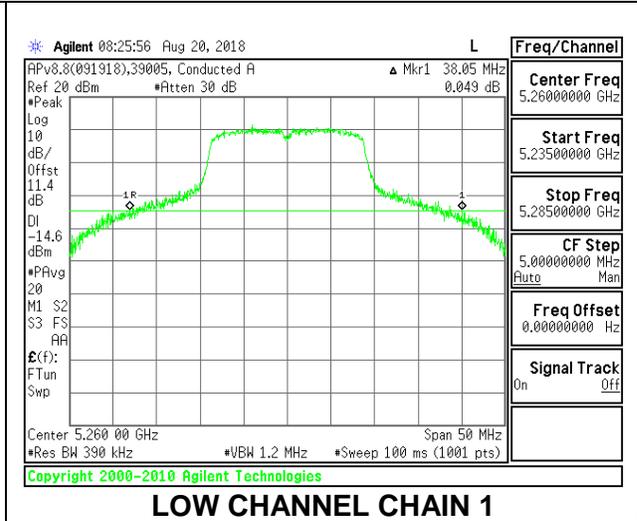
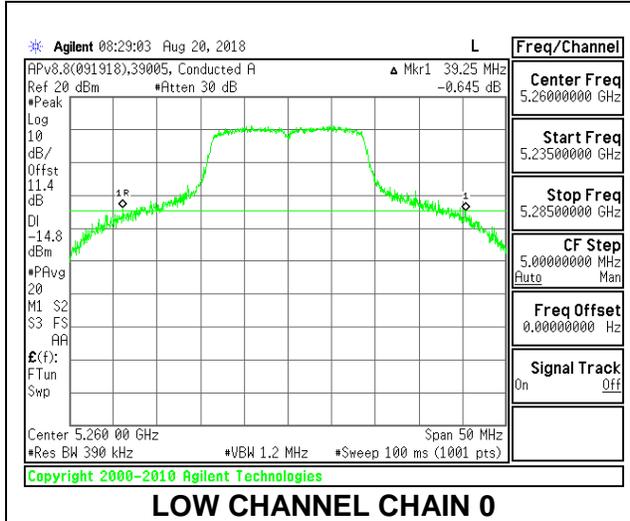
HIGH CHANNEL



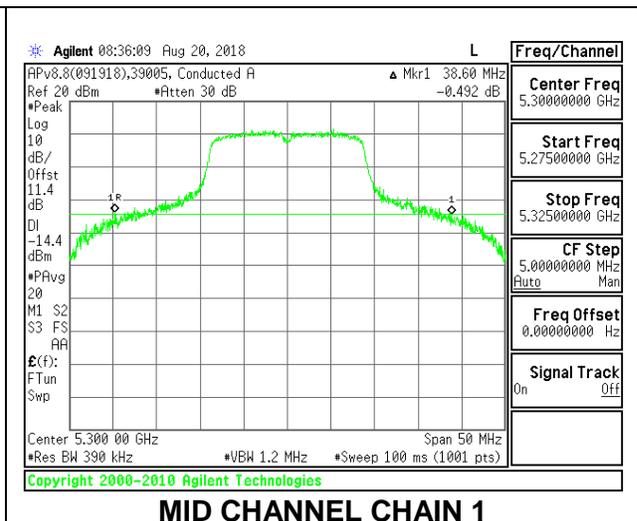
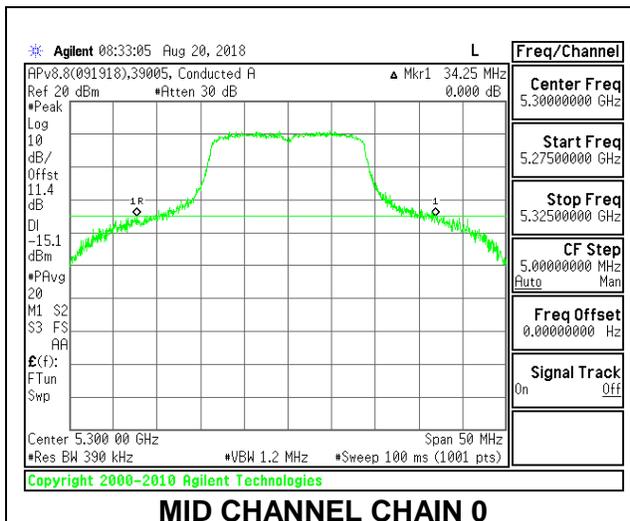
8.2.4. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5260	39.25	38.05
Mid	5300	34.25	38.60
High	5320	34.50	37.40

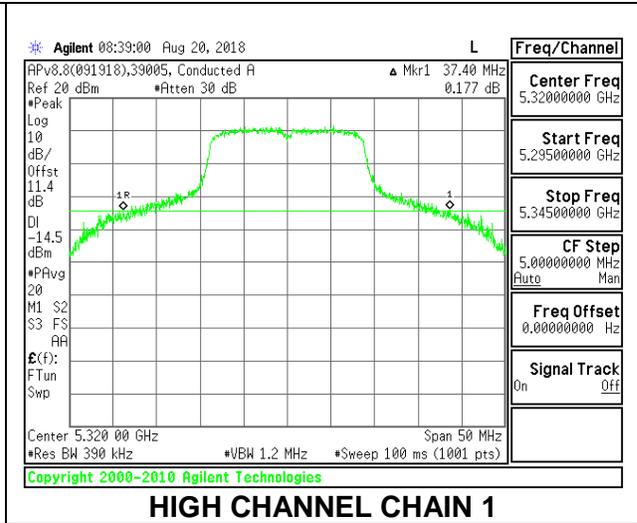
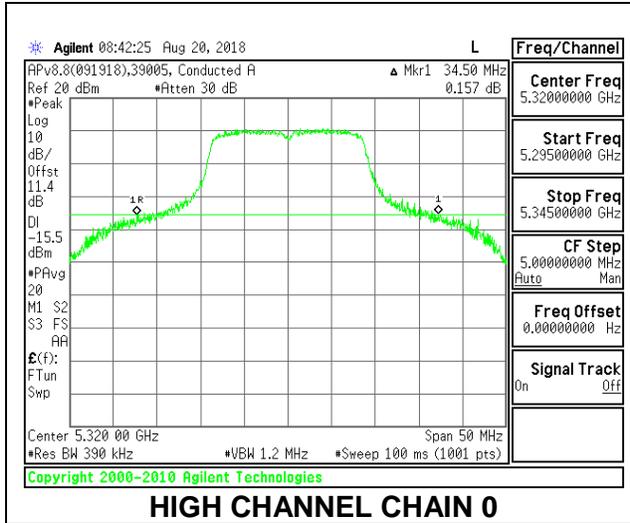
LOW CHANNEL



MID CHANNEL



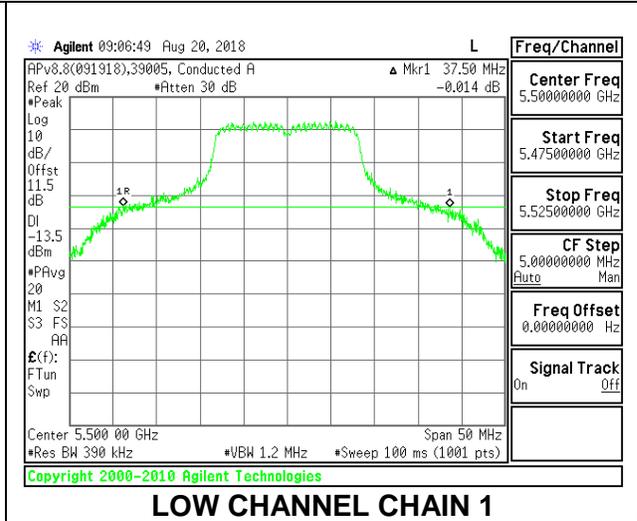
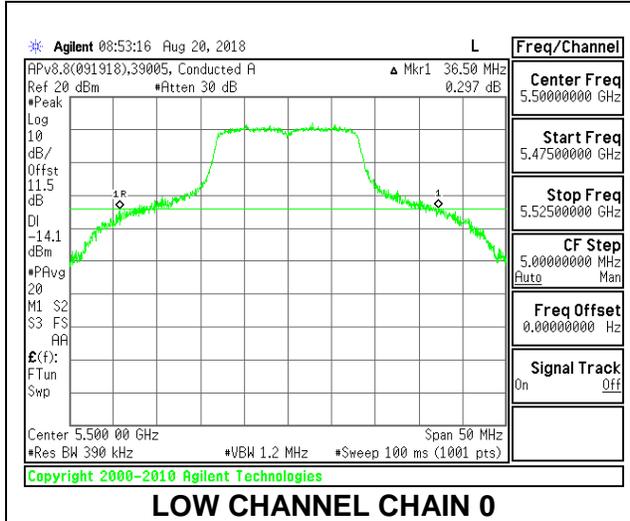
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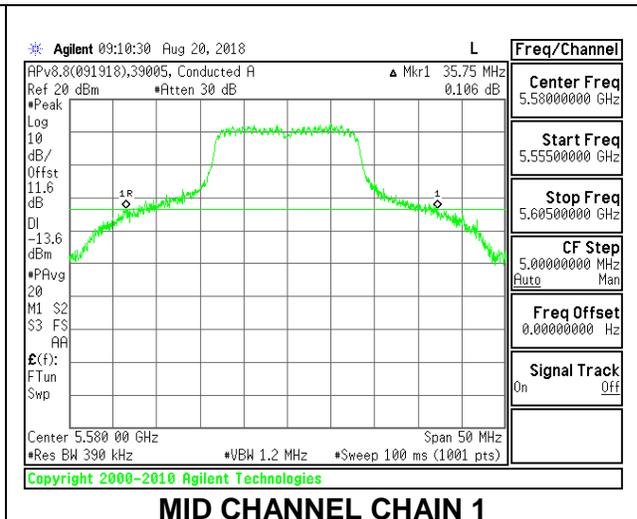
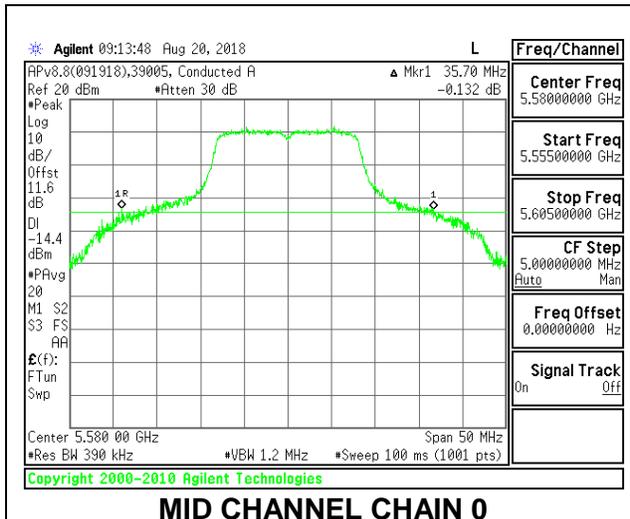
8.2.5. 802.11a MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5500	36.50	37.50
Mid	5580	35.70	35.75
High	5700	27.85	31.95

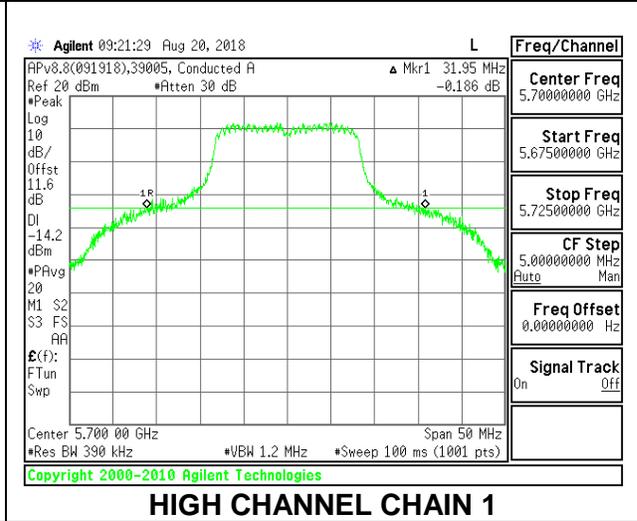
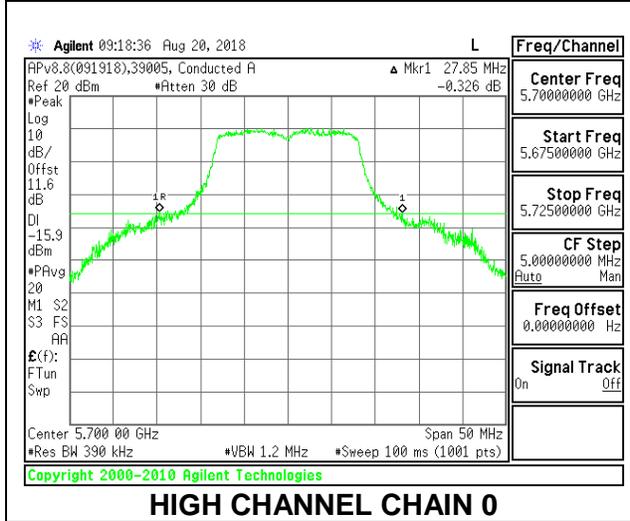
LOW CHANNEL



MID CHANNEL



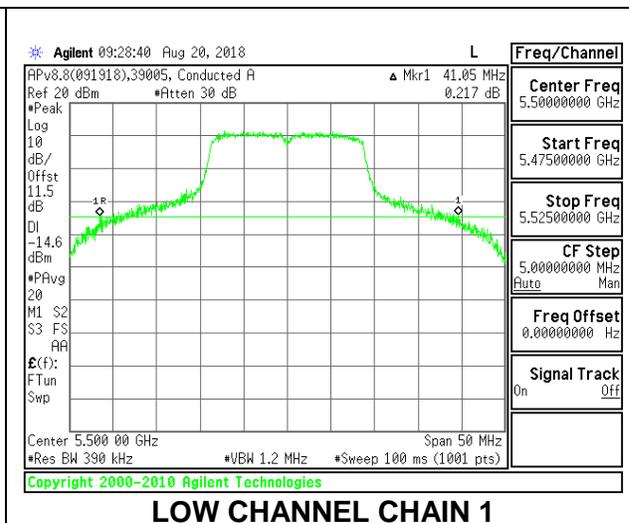
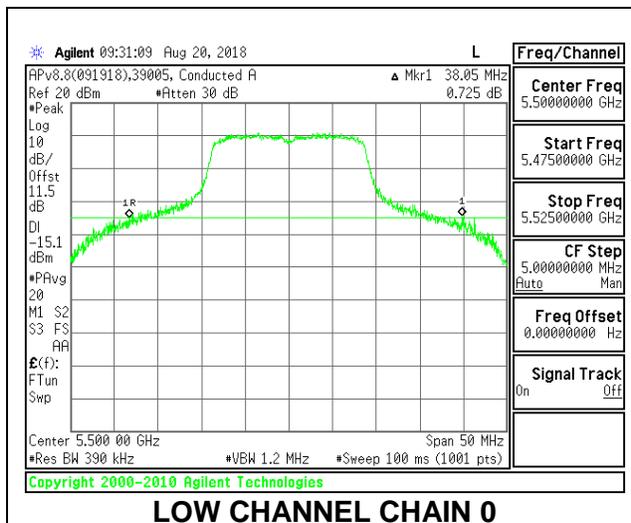
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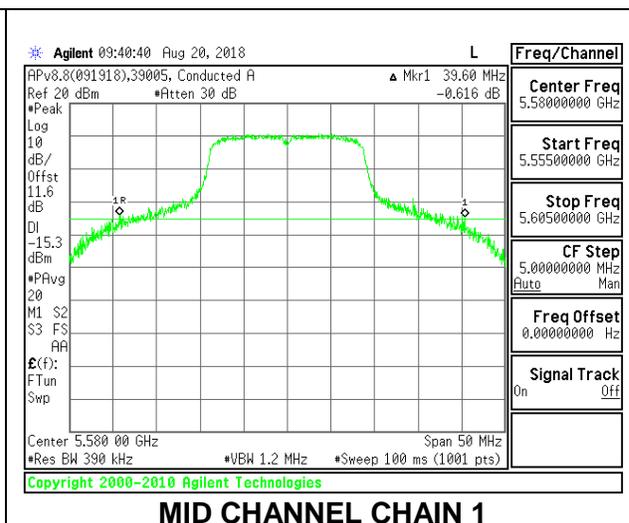
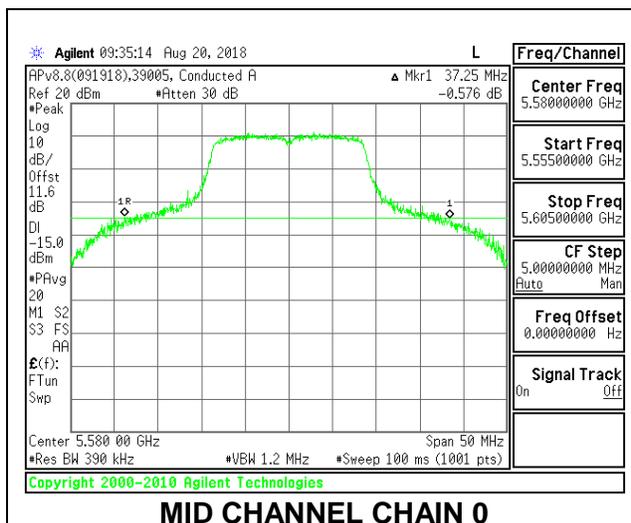
8.2.6. 802.11n HT20 MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5500	38.05	41.05
Mid	5580	37.25	39.60
High	5700	28.45	35.45

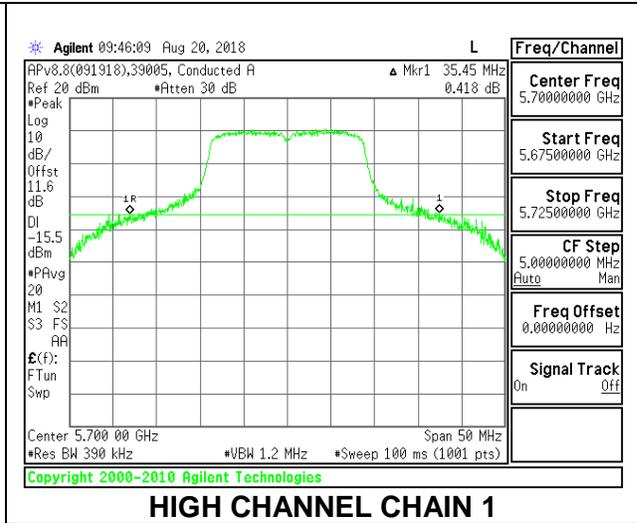
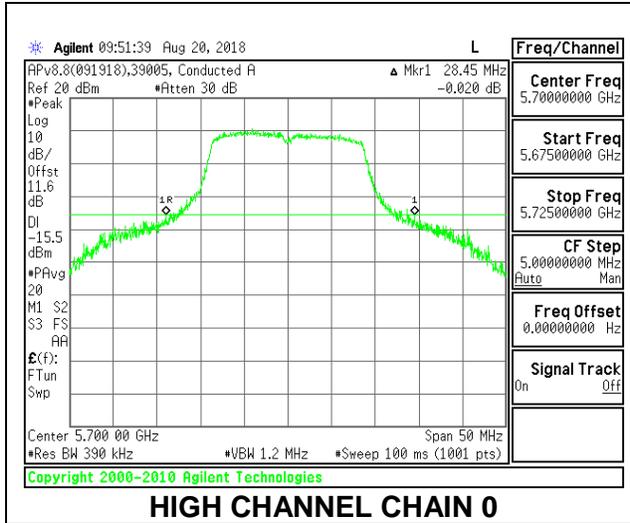
LOW CHANNEL



MID CHANNEL



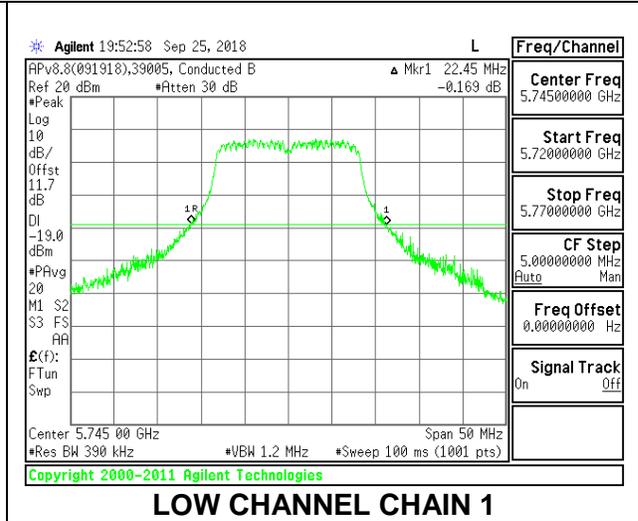
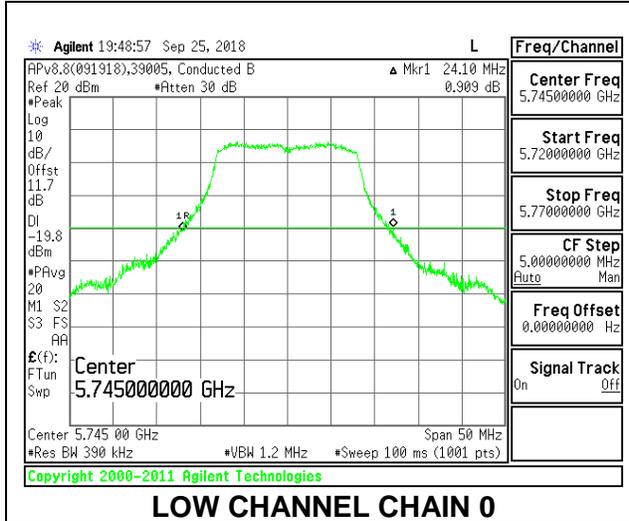
HIGH CHANNEL



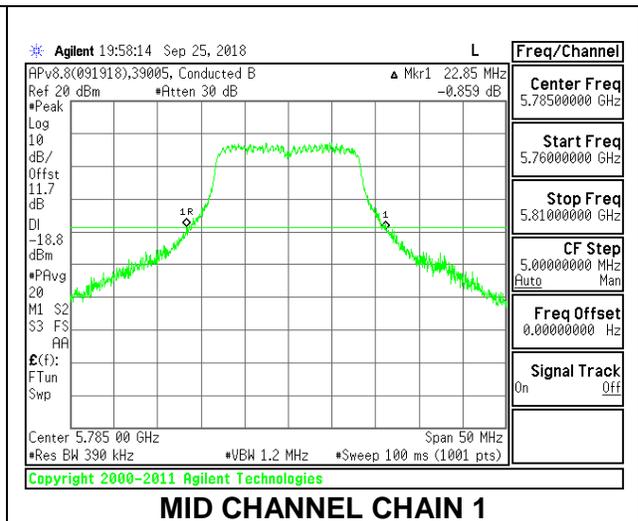
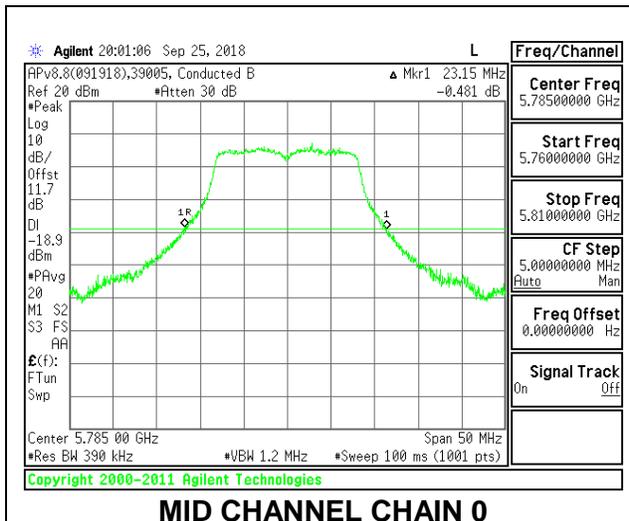
8.2.7. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Chain 0 (MHz)	26 dB Bandwidth Chain 1 (MHz)
Low	5745	24.10	22.45
Mid	5785	23.15	22.85
High	5825	23.60	22.60

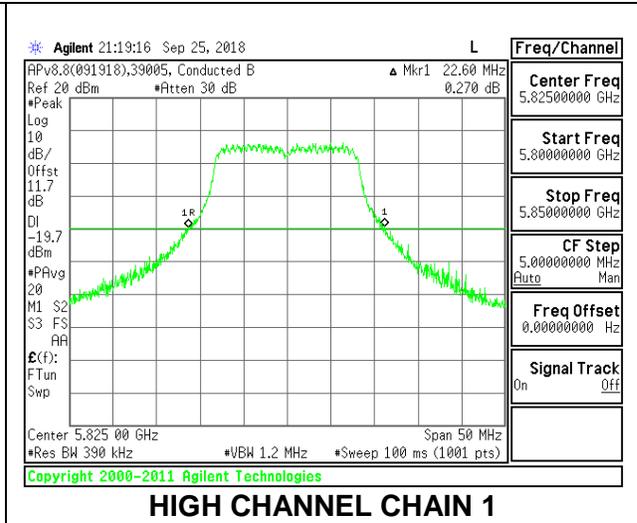
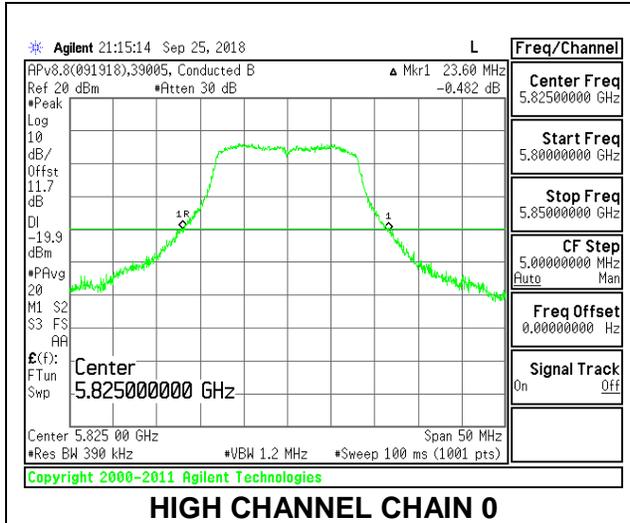
LOW CHANNEL



MID CHANNEL



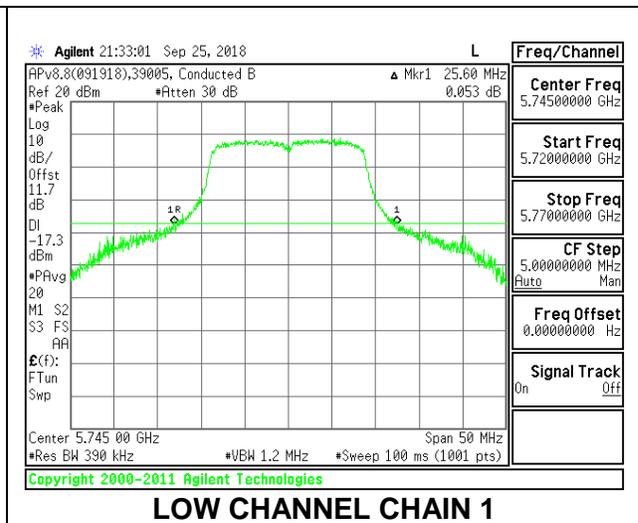
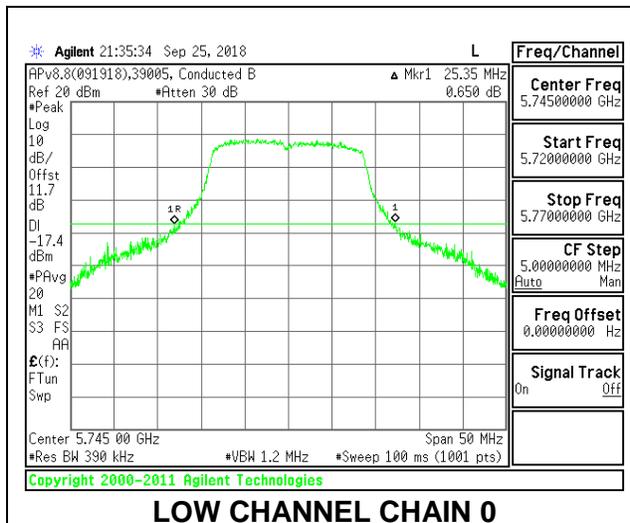
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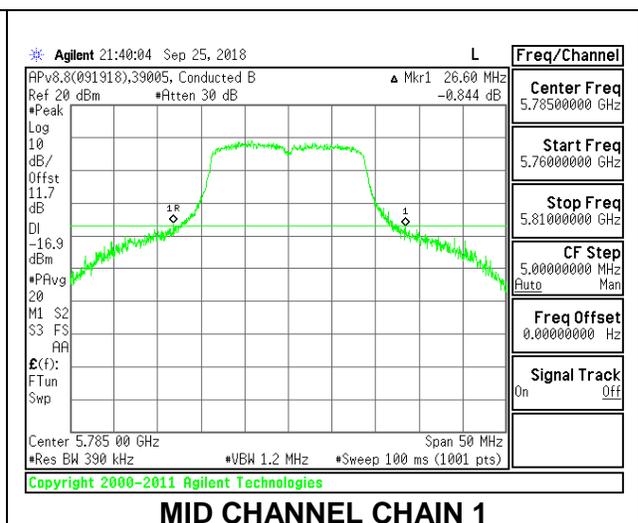
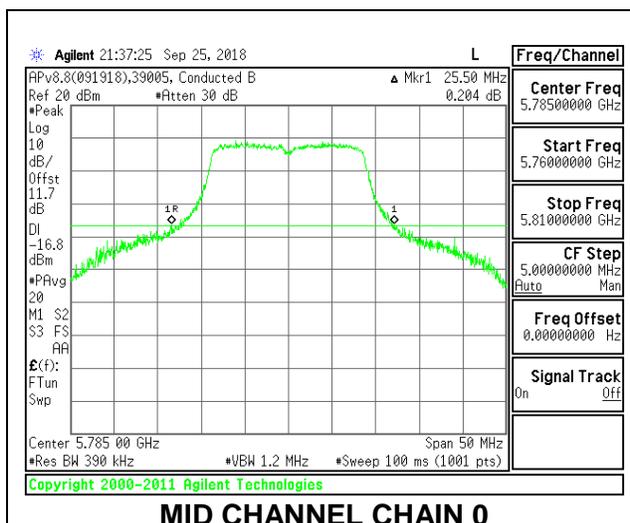
8.2.8. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 1 (MHz)	26 dB Bandwidth Antenna 2 (MHz)
Low	5745	25.35	25.60
Mid	5785	25.50	26.60
High	5825	25.45	27.15

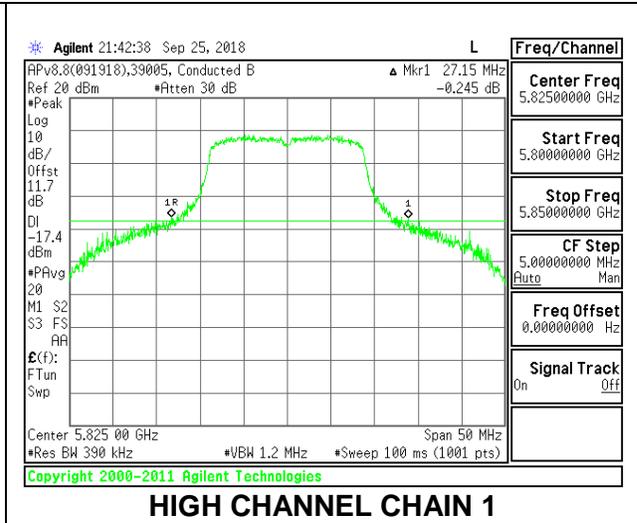
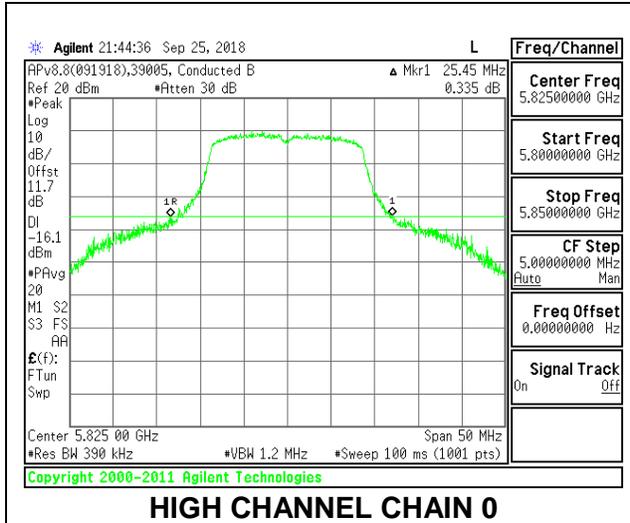
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.3. 99% BANDWIDTH

LIMITS

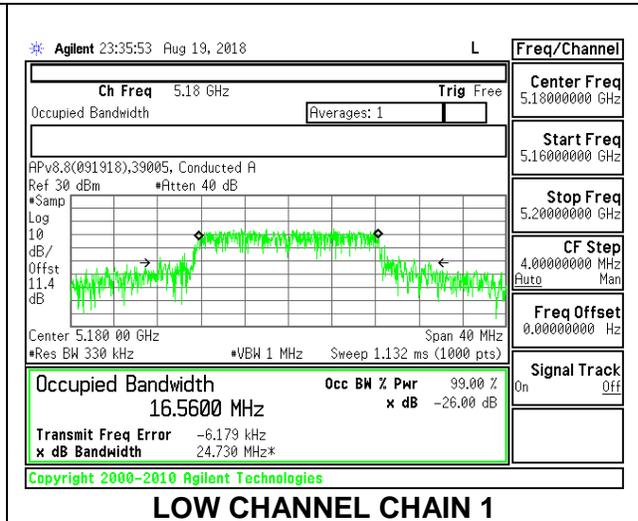
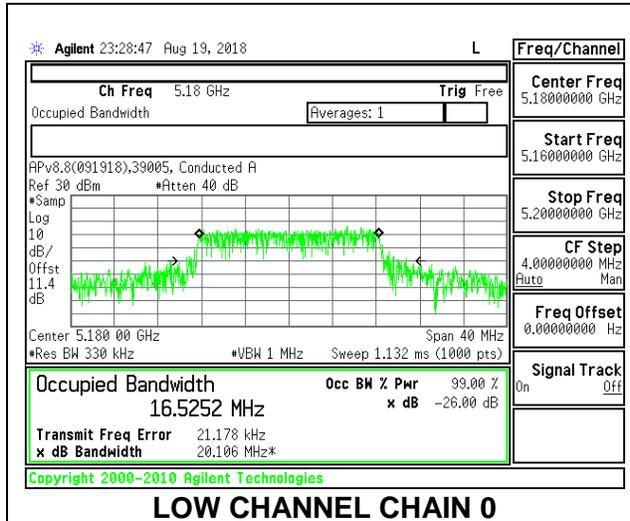
None; for reporting purposes only.

RESULTS

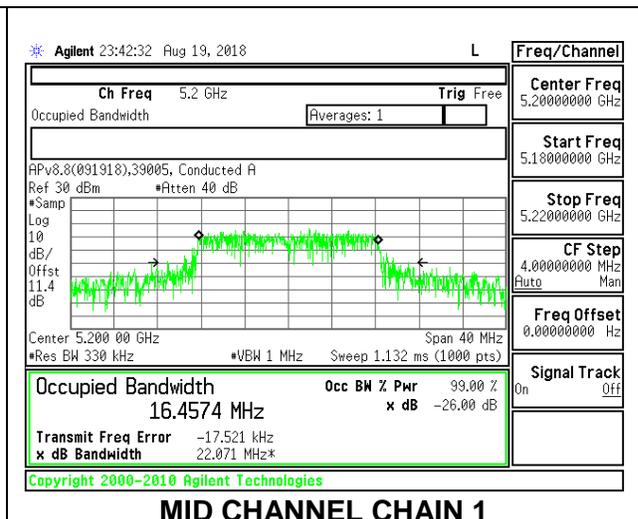
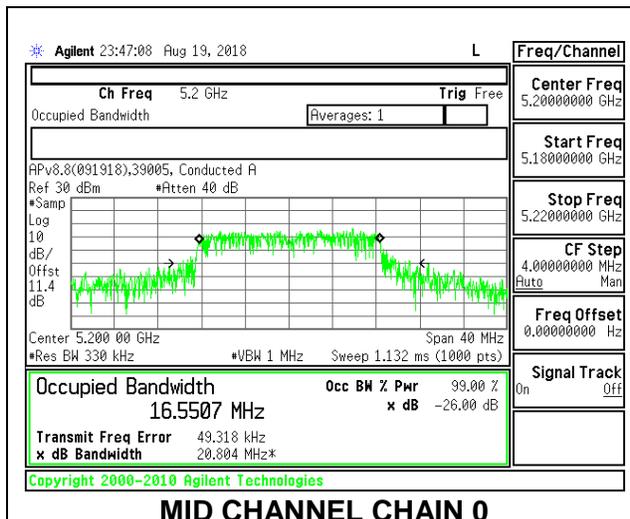
8.3.1. 802.11a MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5180	16.5252	16.5600
Mid	5200	16.5507	16.4574
High	5240	16.6496	16.5238

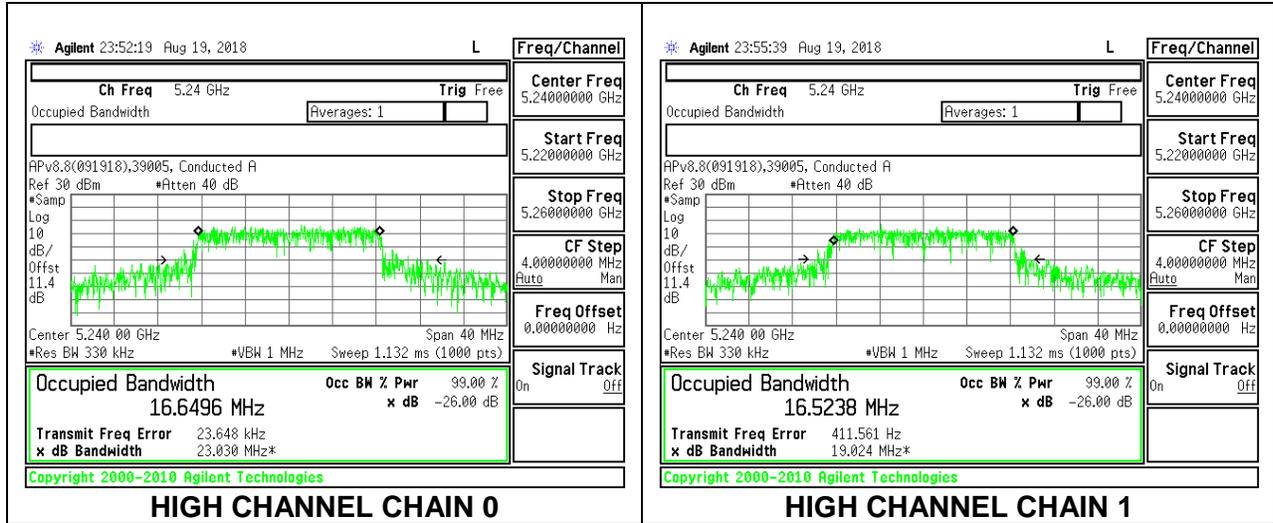
LOW CHANNEL



MID CHANNEL



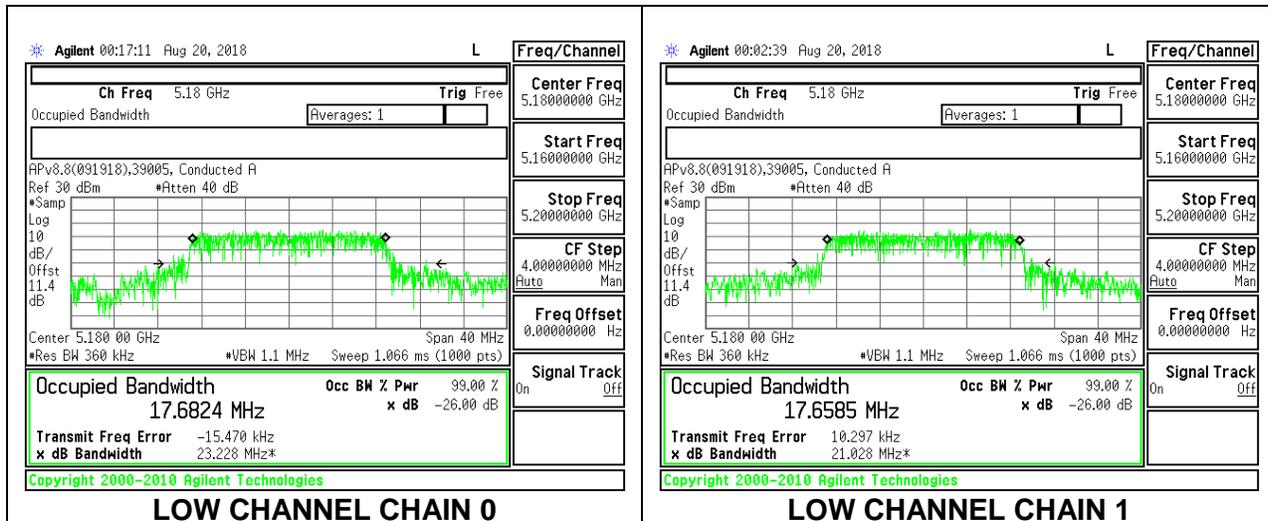
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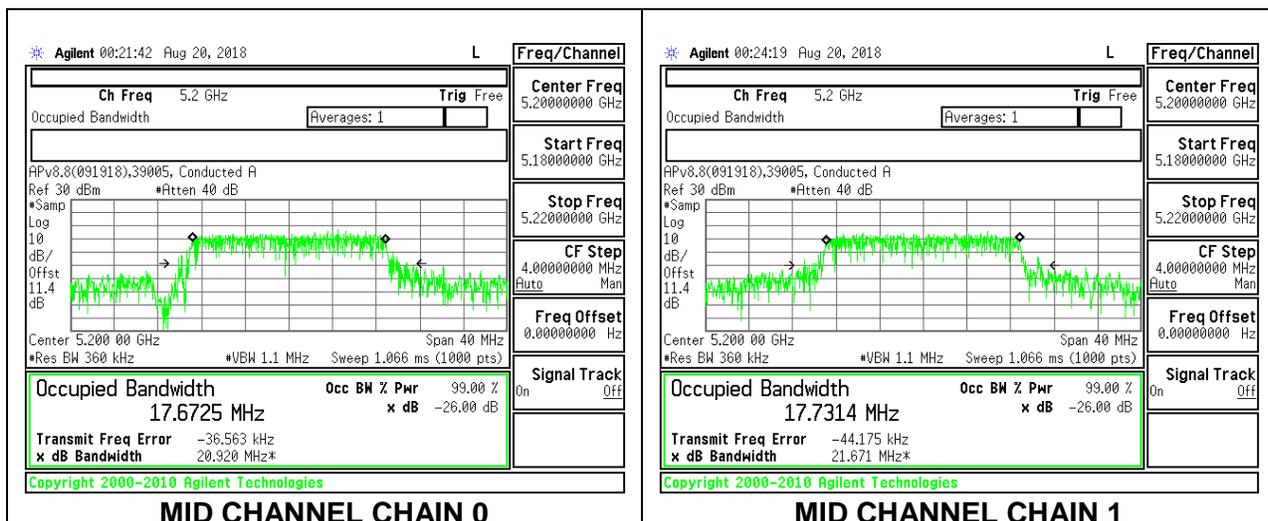
8.3.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5180	17.6824	17.6585
Mid	5200	17.6725	17.7314
High	5240	17.7004	17.7739

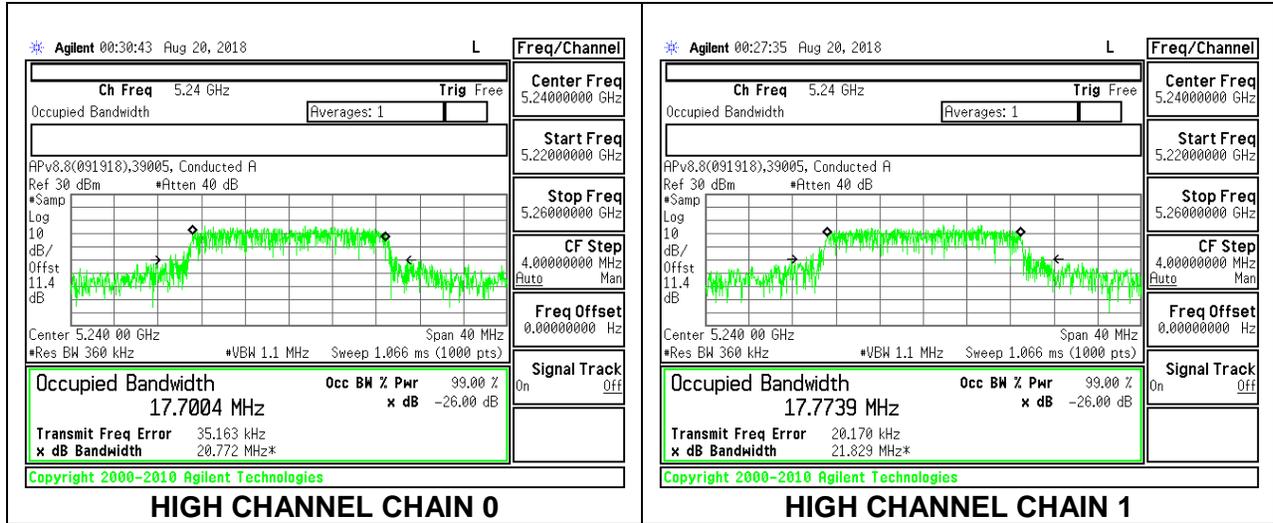
LOW CHANNEL



MID CHANNEL



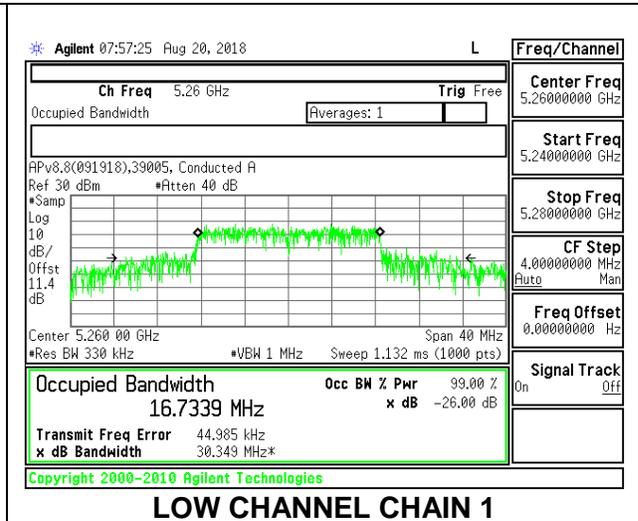
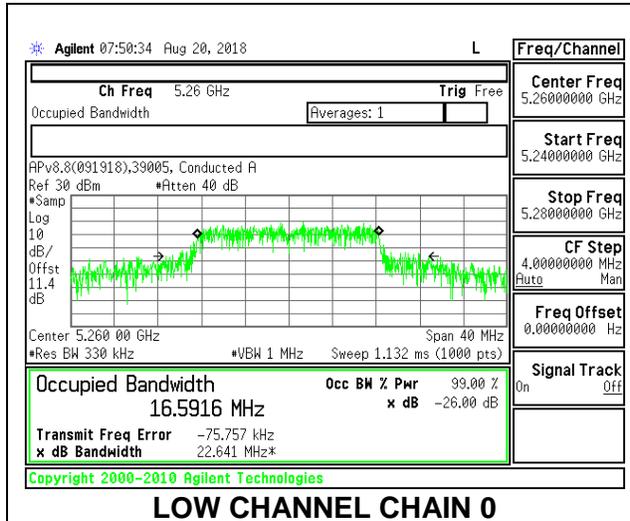
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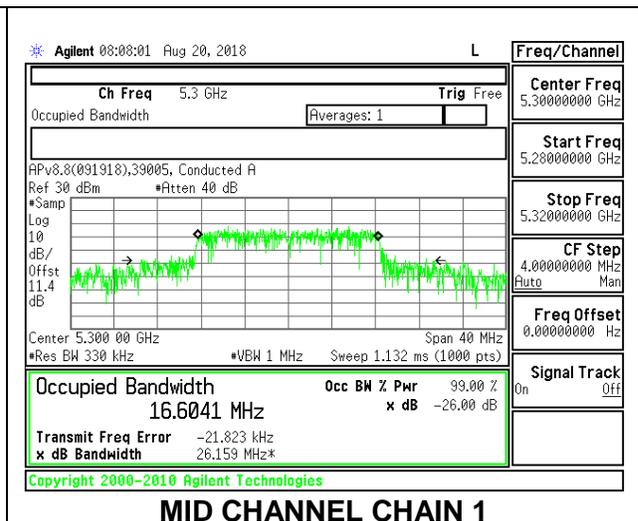
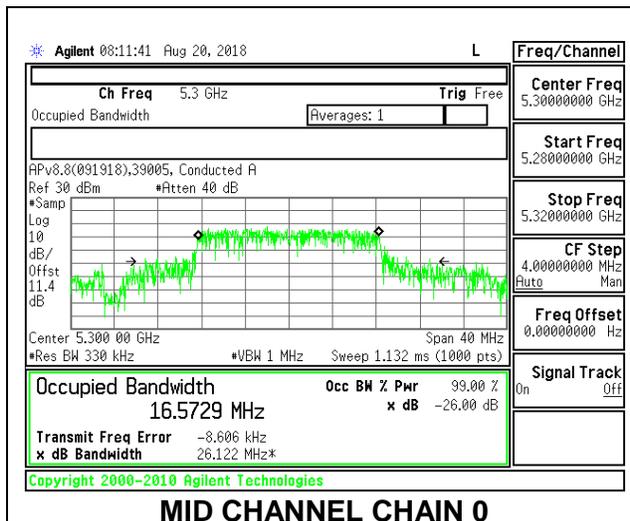
8.3.3. 802.11a MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5260	16.5916	16.7339
Mid	5300	16.5729	16.6041
High	5320	16.4250	16.5723

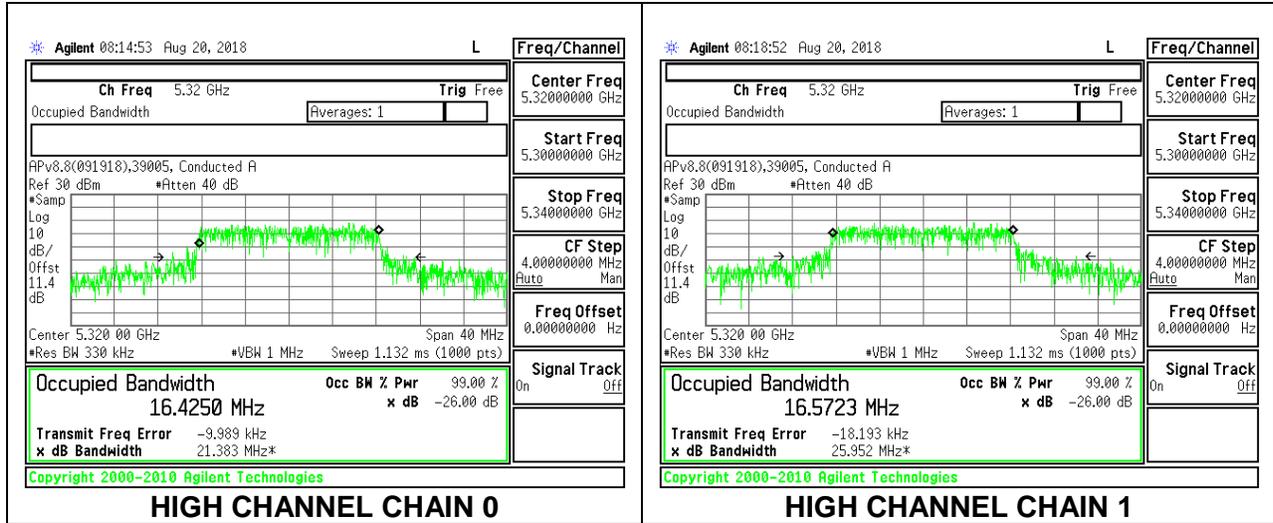
LOW CHANNEL



MID CHANNEL



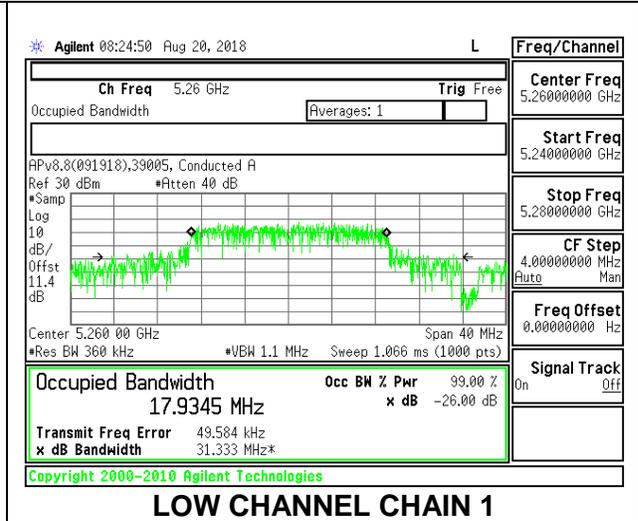
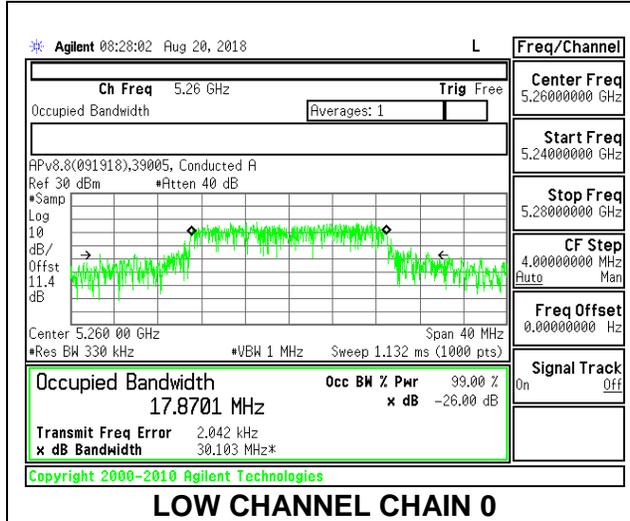
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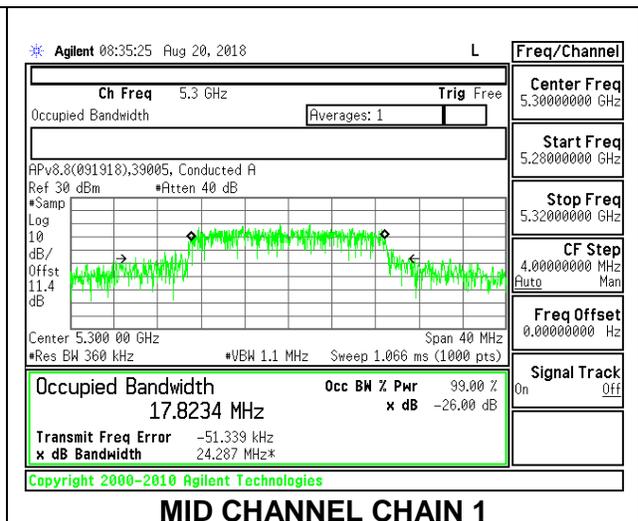
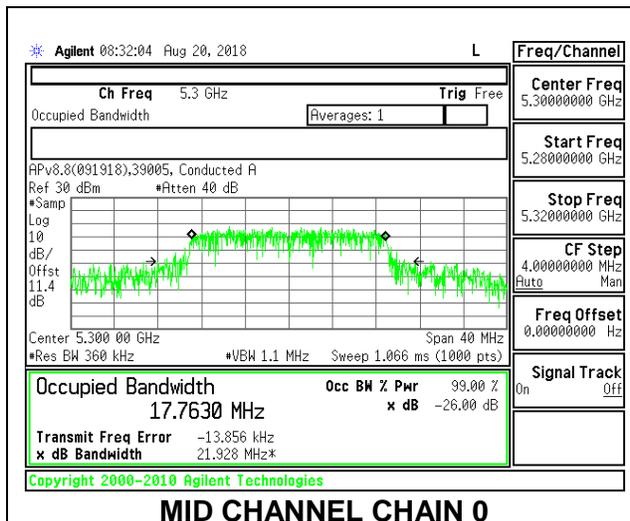
8.3.4. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5260	17.8701	17.9345
Mid	5300	17.7630	17.8234
High	5320	17.7761	17.7946

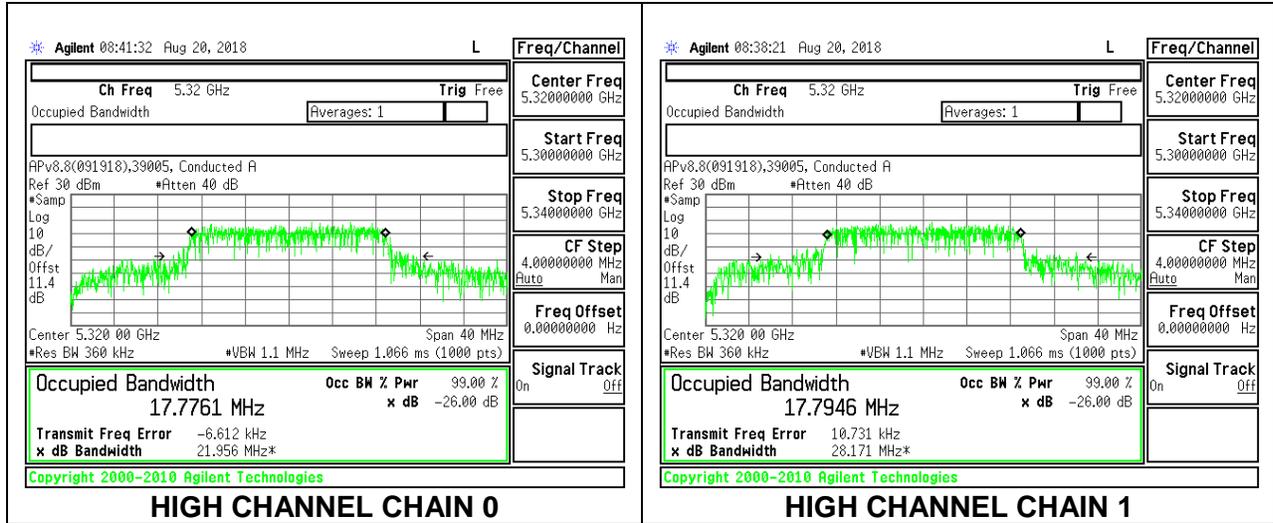
LOW CHANNEL



MID CHANNEL



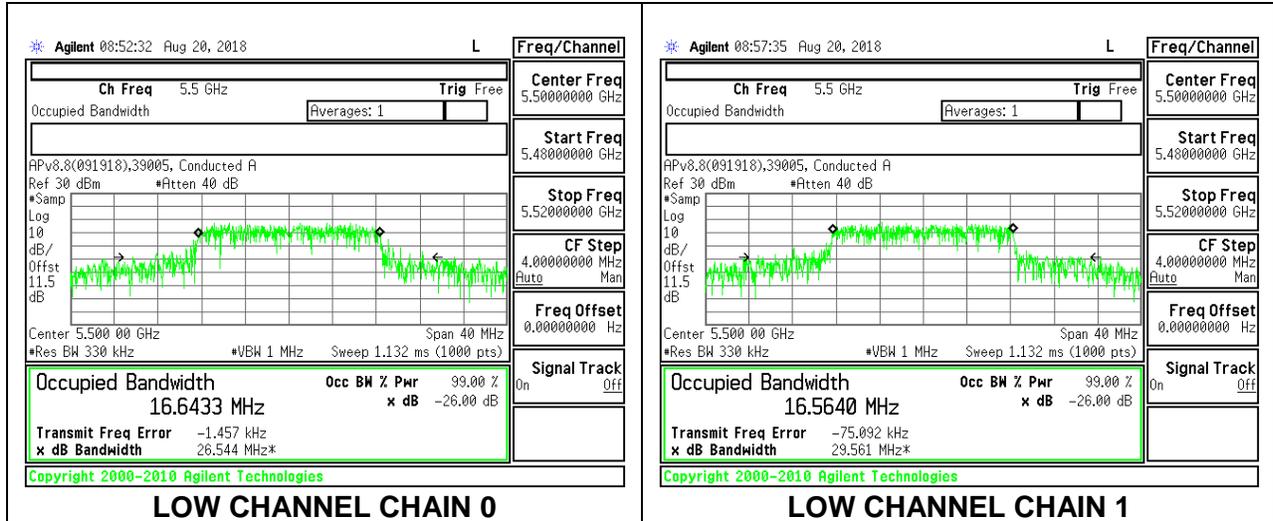
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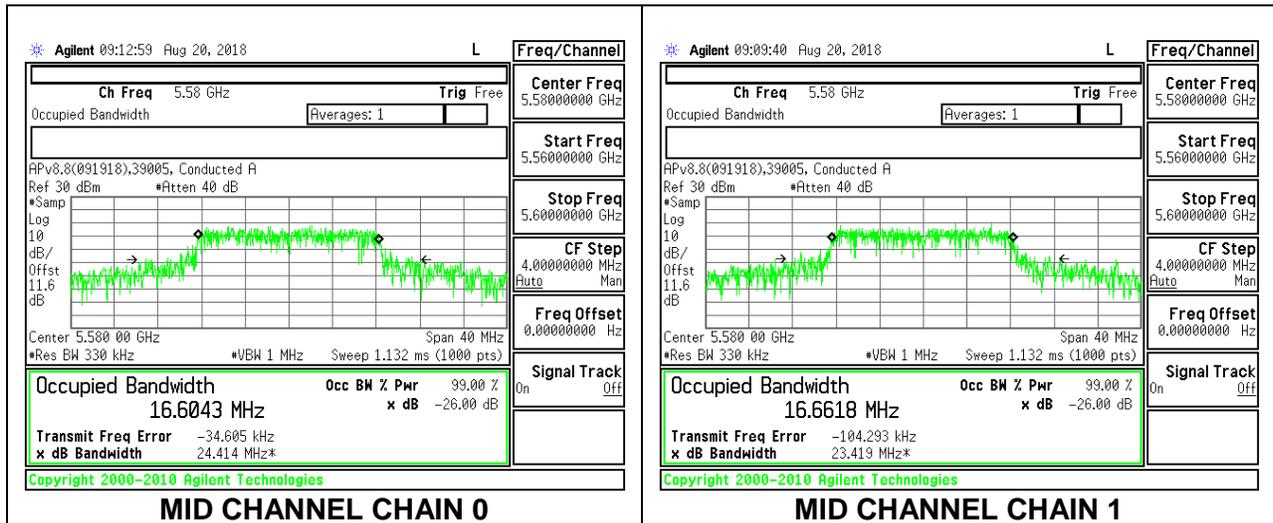
8.3.5. 802.11a MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5500	16.6433	16.5640
Mid	5580	16.6043	16.6618
High	5700	16.4752	16.5496

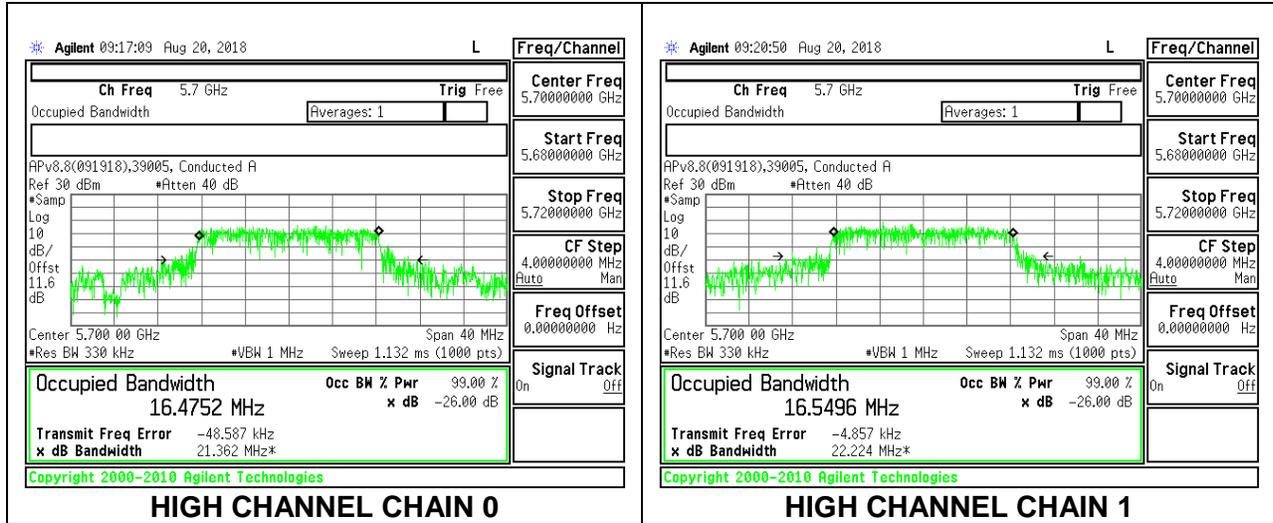
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MID CHANNEL



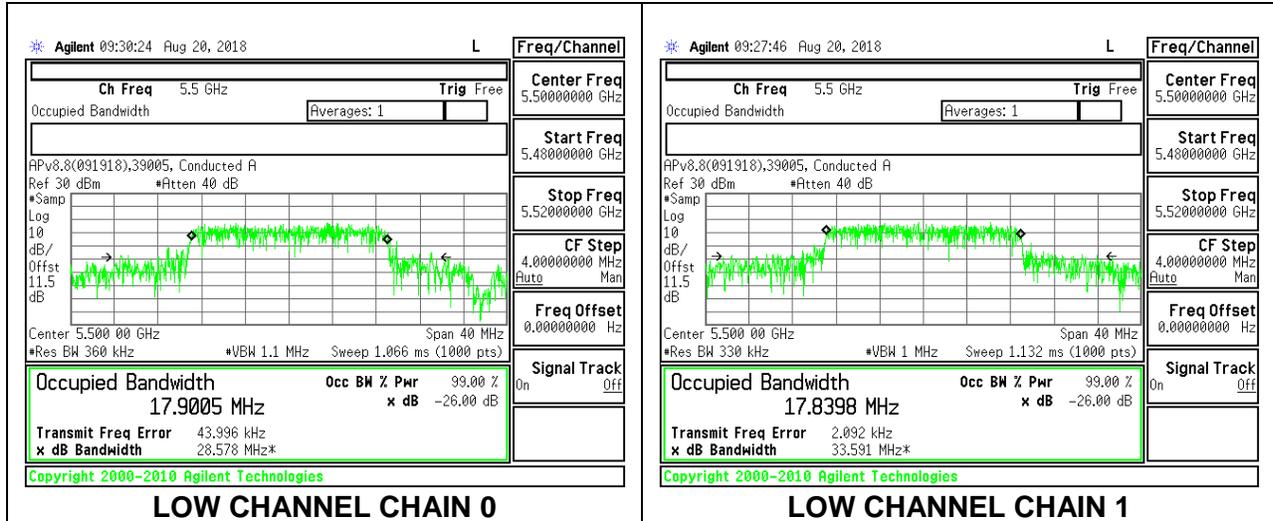
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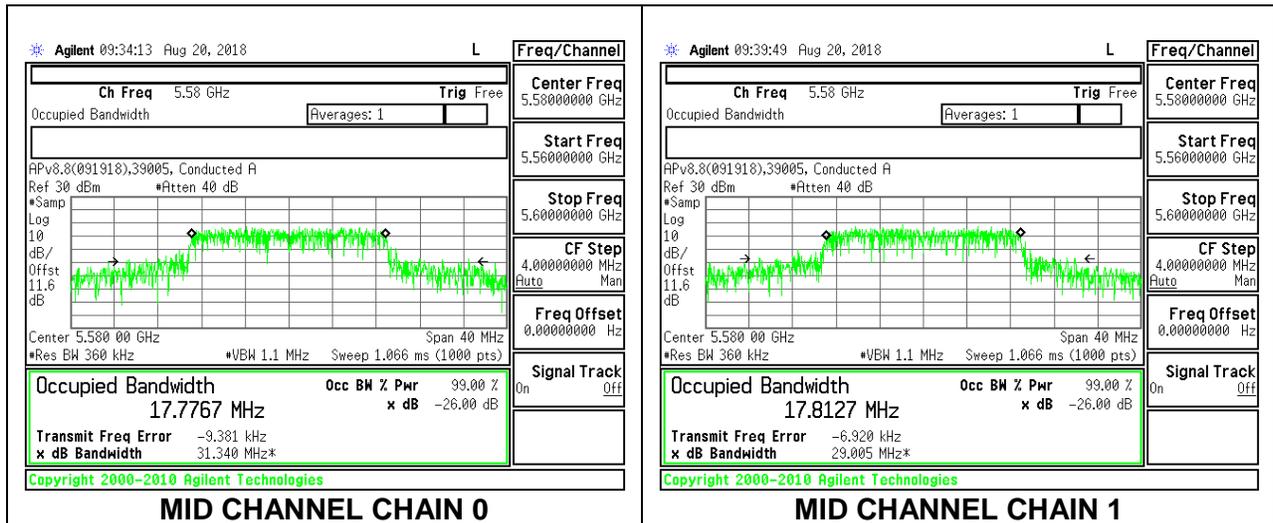
8.3.6. 802.11n HT20 MODE IN THE 5.6 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5500	17.9005	17.8398
Mid	5580	17.7767	17.8127
High	5700	17.6533	17.7862

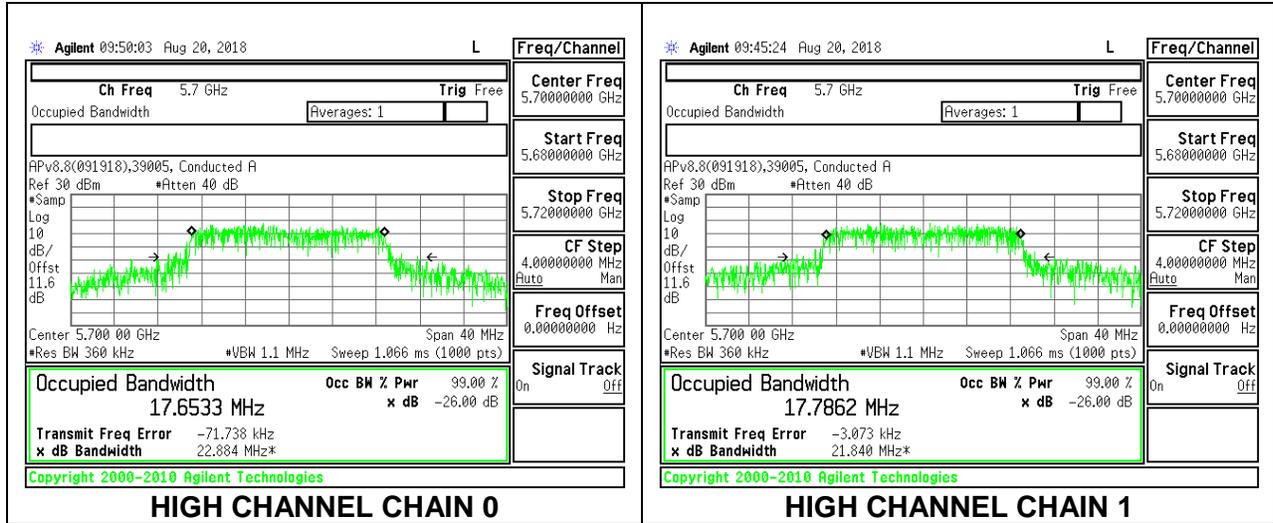
LOW CHANNEL



MID CHANNEL



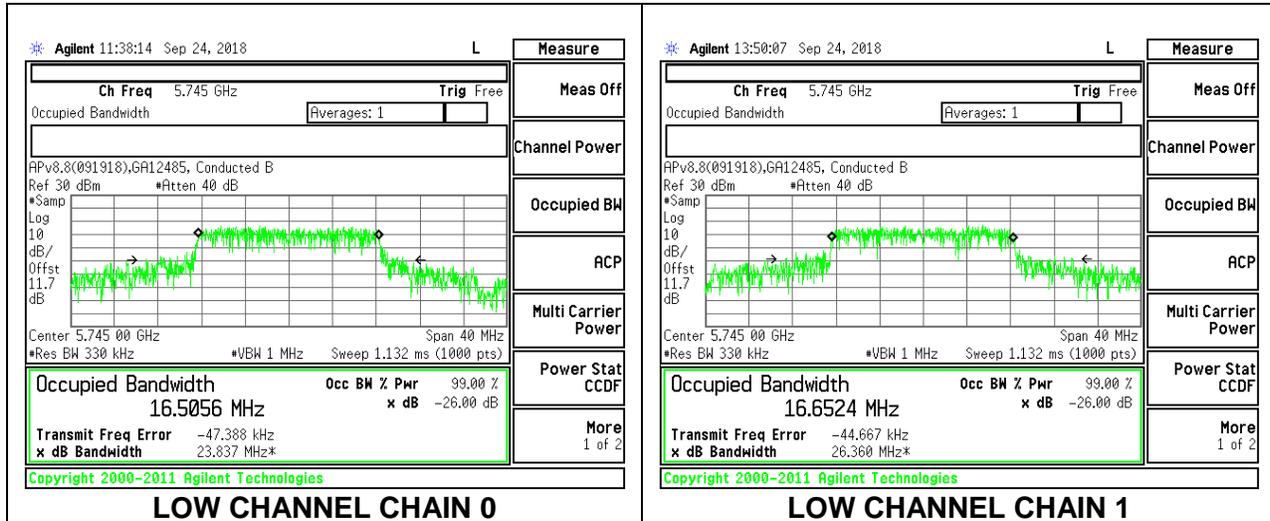
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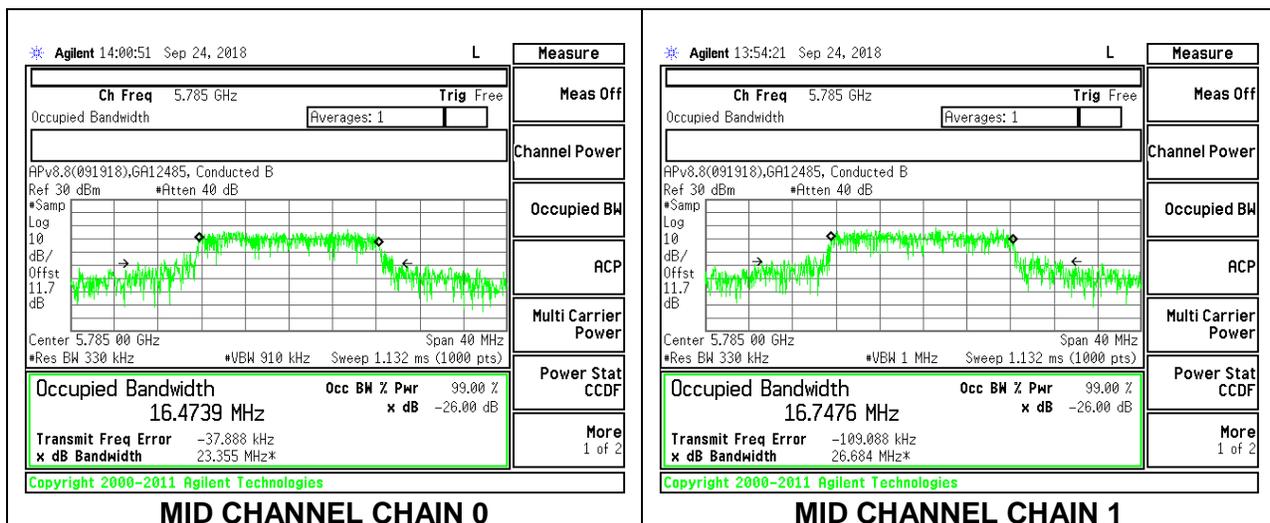
8.3.7. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5745	16.5056	16.6524
Mid	5785	16.4739	16.7476
High	5825	16.5966	16.4316

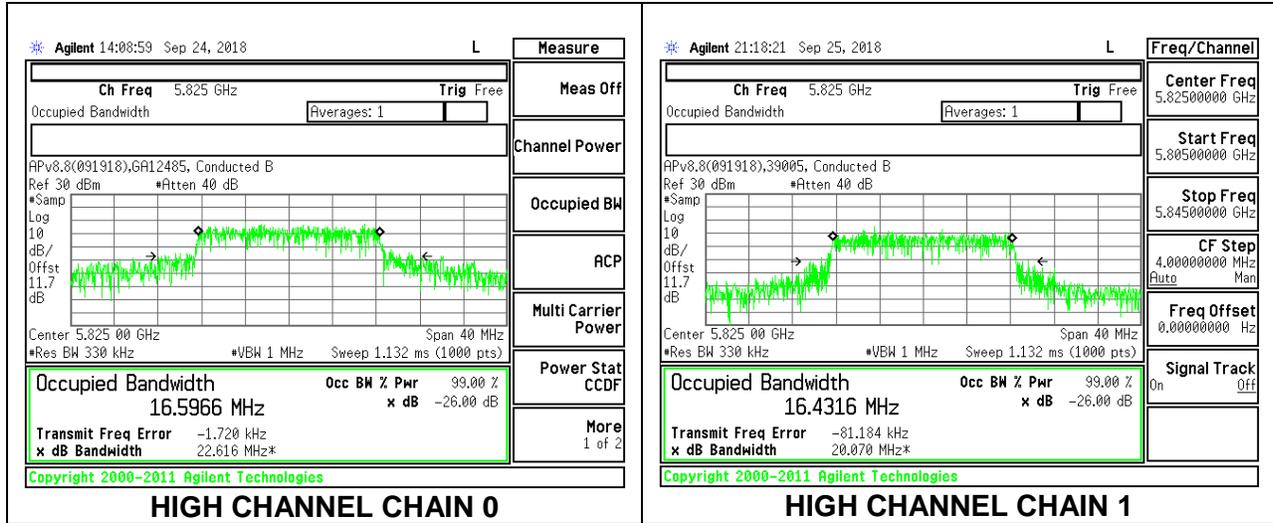
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MID CHANNEL



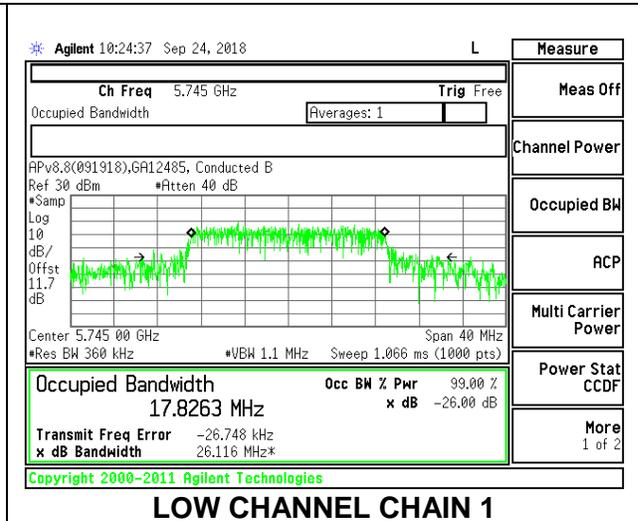
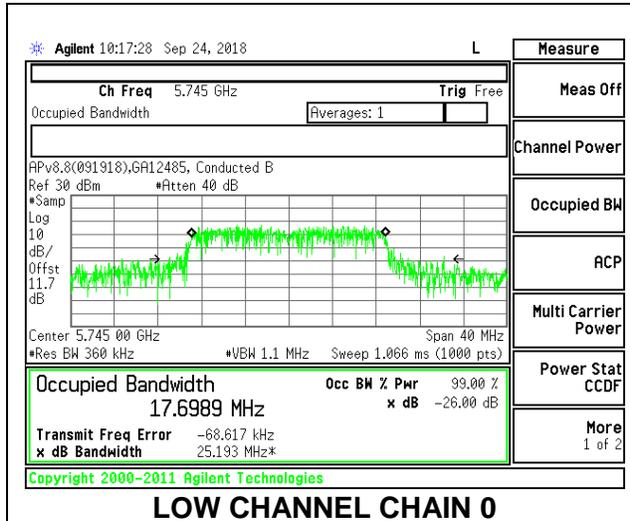
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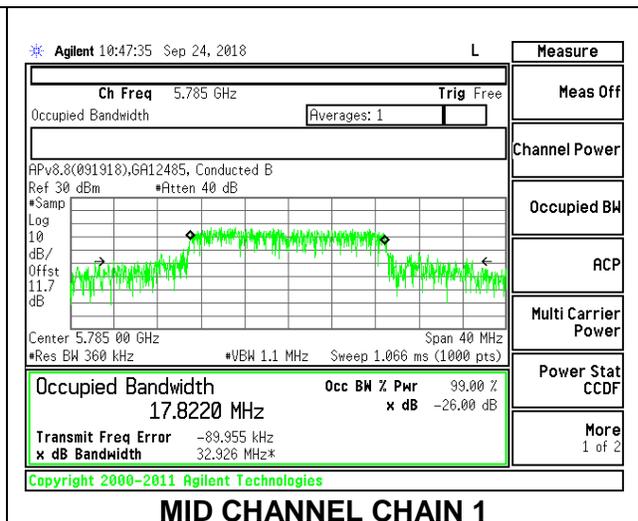
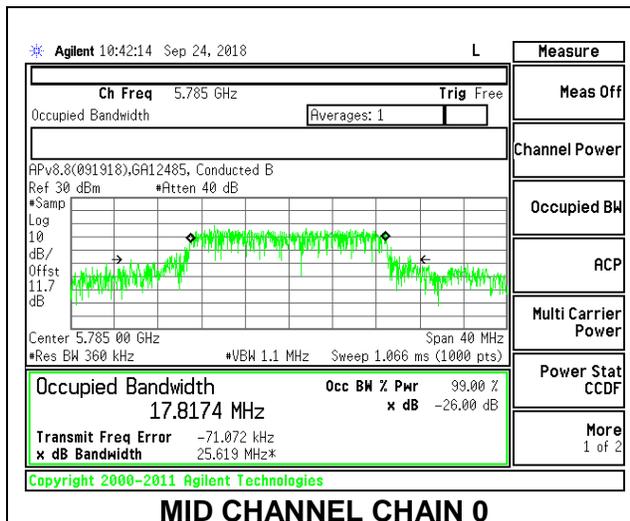
8.3.8. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	5745	17.6989	17.8263
Mid	5785	17.8174	17.8220
High	5825	17.7350	17.8440

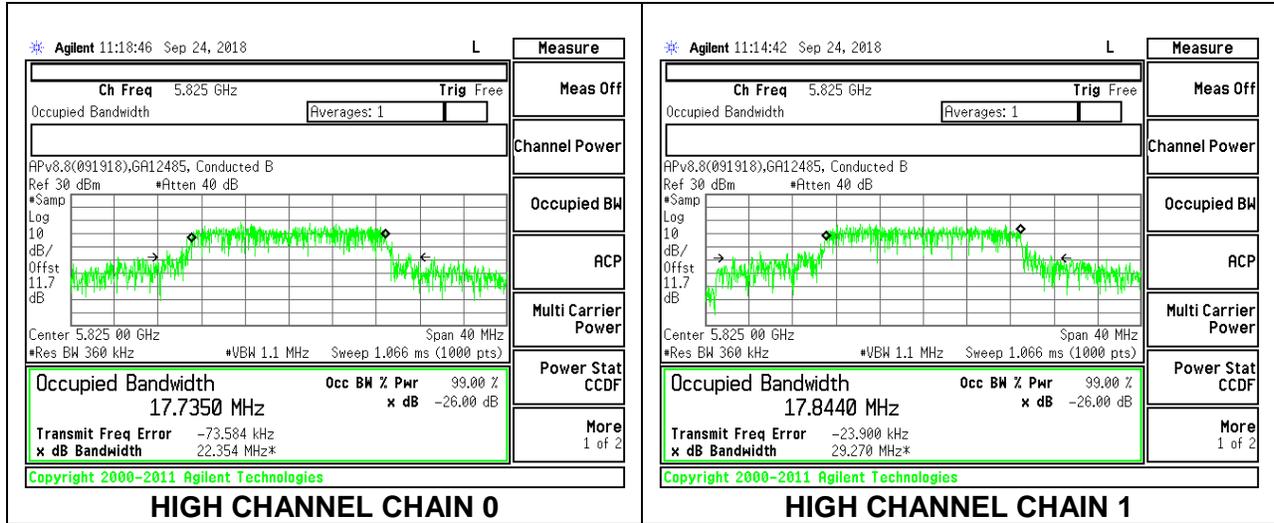
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 6.2.4.1

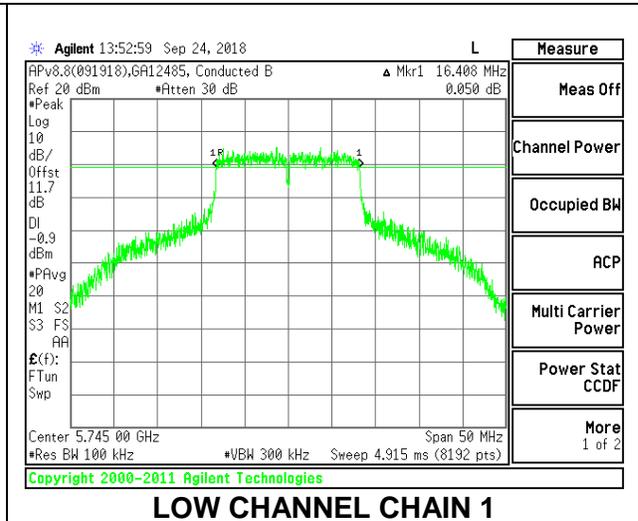
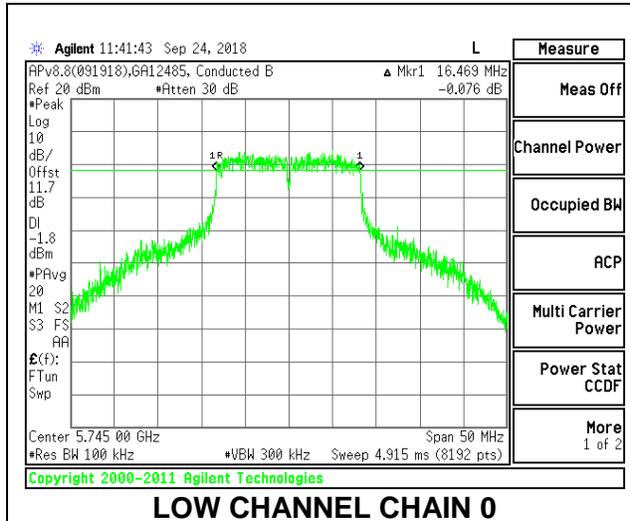
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

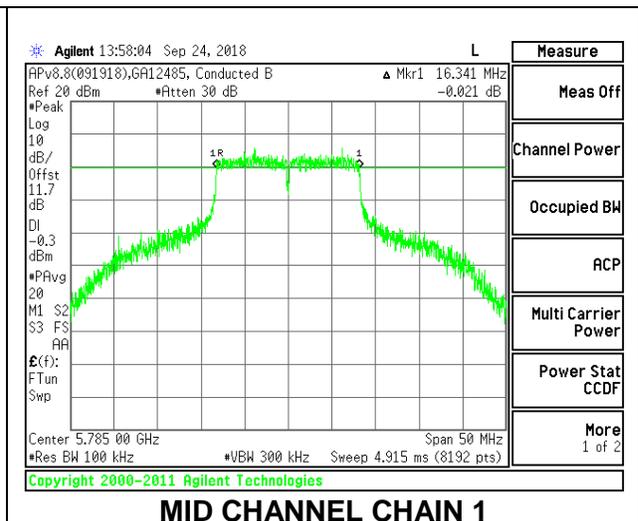
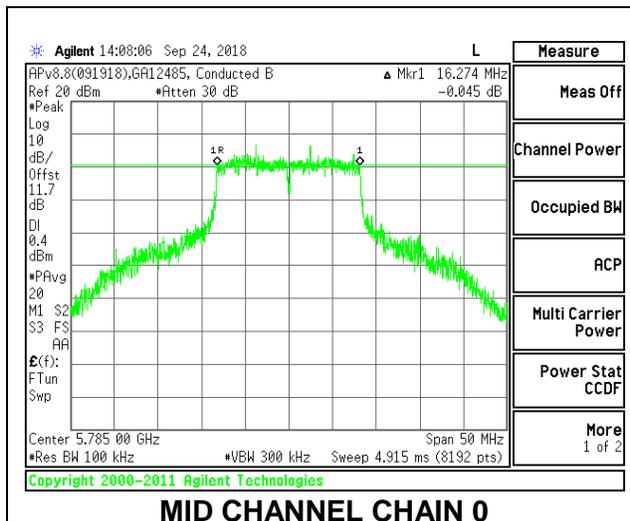
8.4.1. 802.11a MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	5745	16.469	16.408	0.5
Mid	5785	16.274	16.341	0.5
High	5825	16.311	16.066	0.5

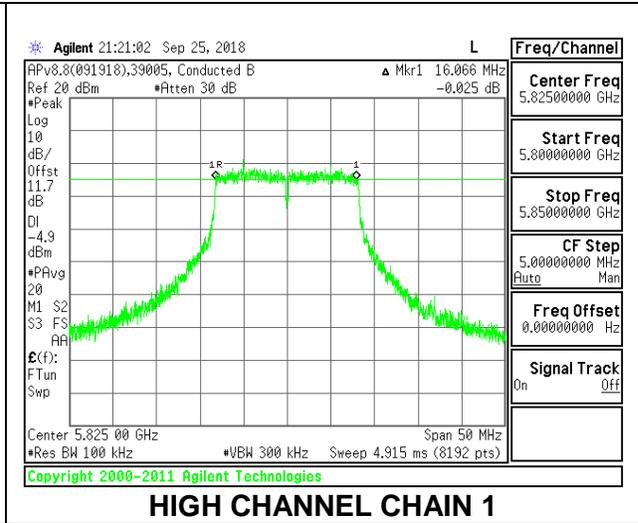
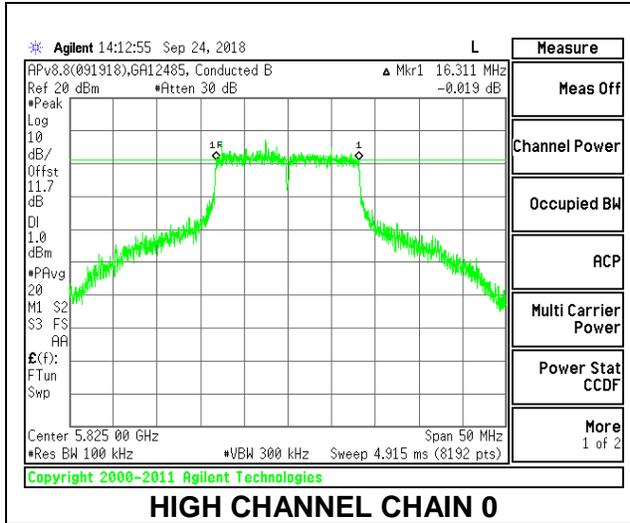
LOW CHANNEL



MID CHANNEL



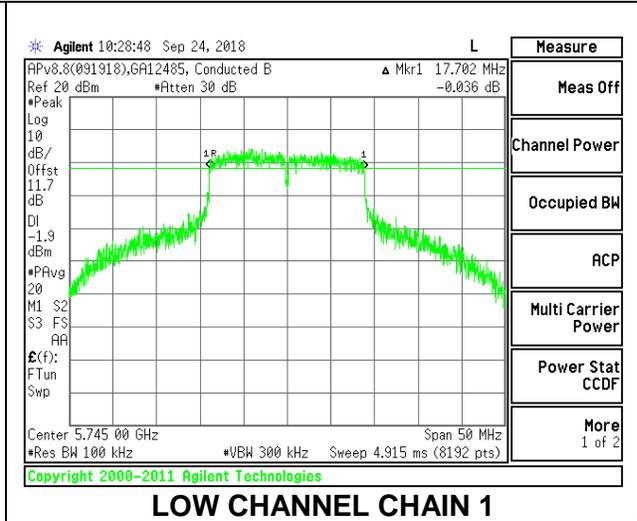
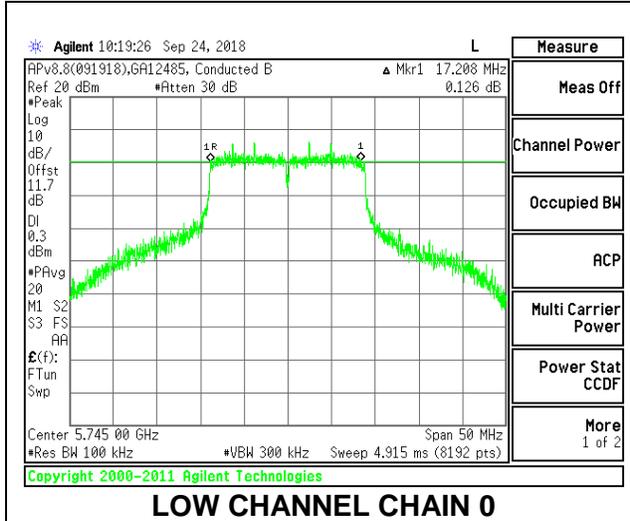
HIGH CHANNEL



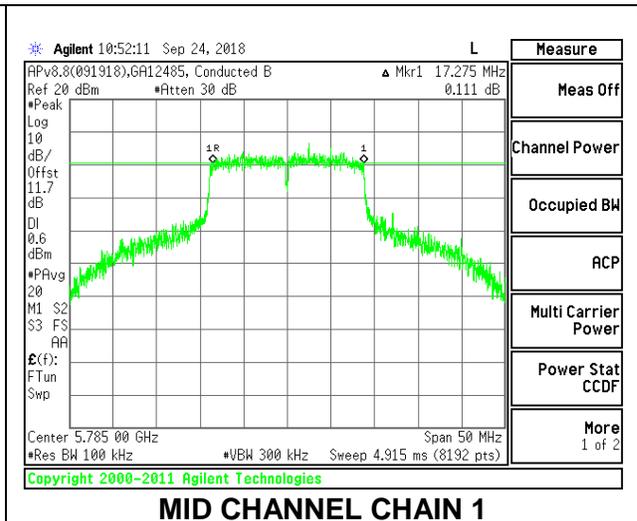
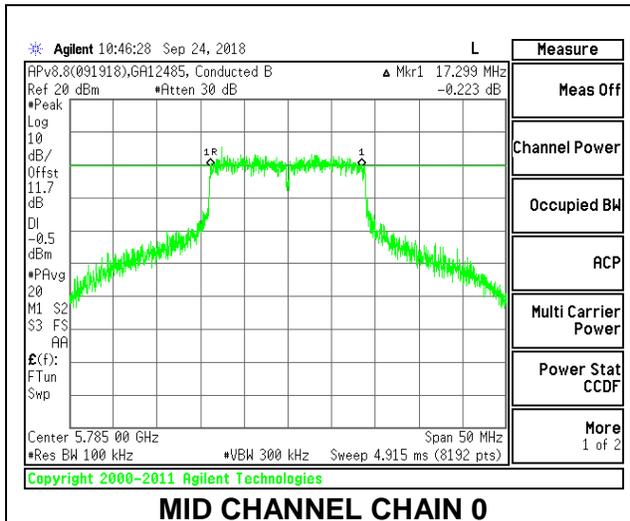
8.4.2. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	5745	17.208	17.702	0.5
Mid	5785	17.299	17.275	0.5
High	5825	17.562	17.183	0.5

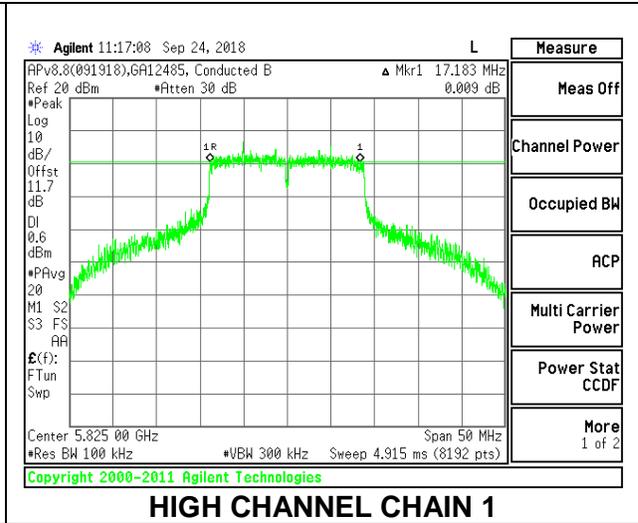
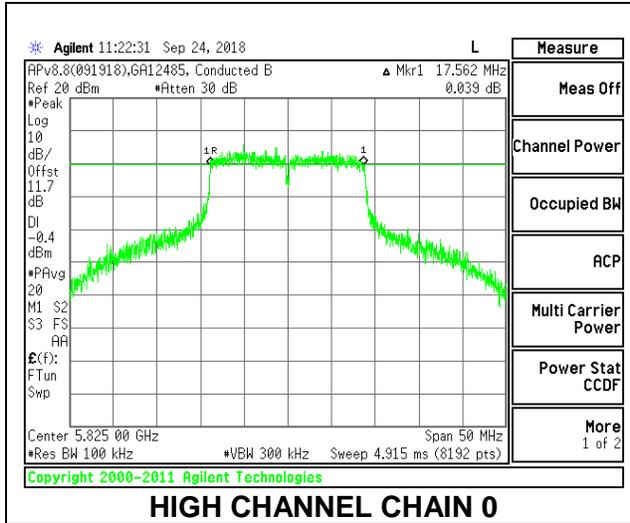
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz 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.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 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 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands 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 megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.15-5.25 GHz

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 megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever 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 is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever 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 is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The 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 power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-1) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

DIRECTIONAL ANTENNA GAIN

Band (GHz): 5.2_5.3_5.6_5.8		
Chain / Antenna Gain	Horizontal Polarization	Vertical Polarization
Chain 0_Antenna Gain (dBi) <i>Worst-case</i>	4.20	
Chain 1_Antenna Gain (dBi)		3.90

RESULTS

8.5.1. 802.11a MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	16.53	4.20	4.20
Mid	5200	16.46	4.20	4.20
High	5240	16.52	4.20	4.20

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.18	17.98	17.98	11.00	10.00	5.80
Mid	5200	24.00	22.16	17.96	17.96	11.00	10.00	5.80
High	5240	24.00	22.18	17.98	17.98	11.00	10.00	5.80

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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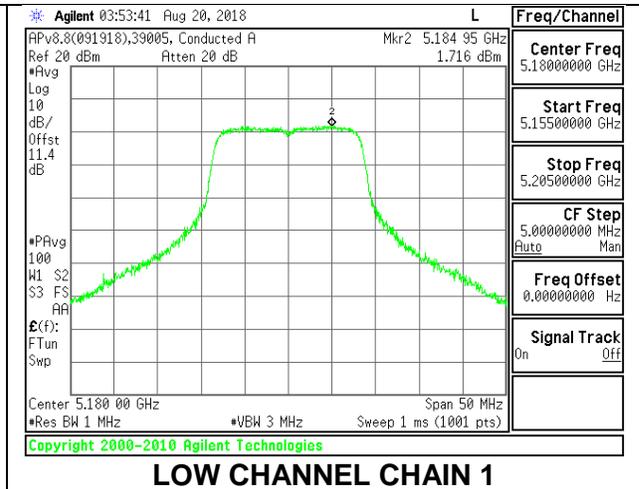
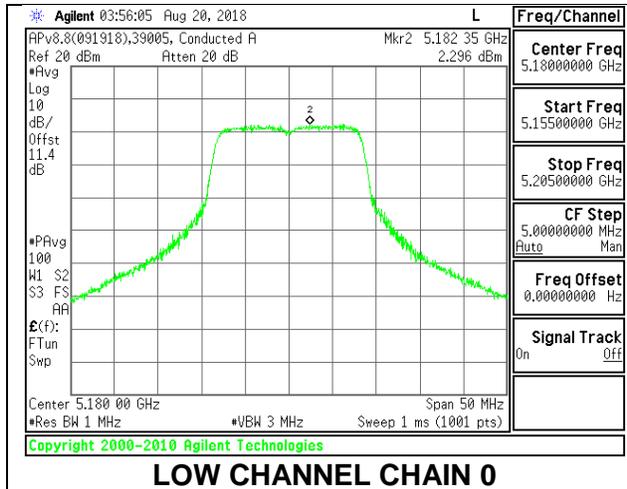
Output Power Results

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	13.20	12.62	15.93	17.98	-2.05
Mid	5200	13.55	12.45	16.05	17.96	-1.92
High	5240	13.30	12.75	16.04	17.98	-1.94

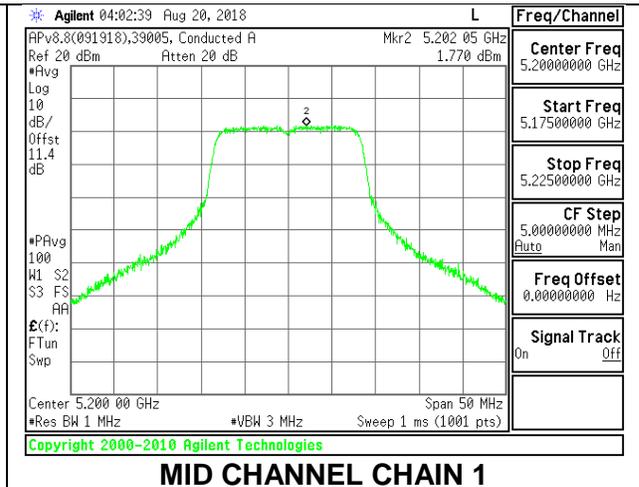
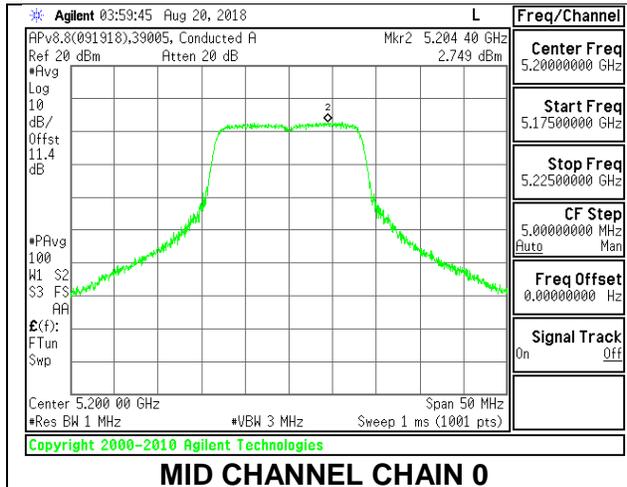
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	2.296	1.716	5.13	5.80	-0.67
Mid	5200	2.749	1.770	5.40	5.80	-0.40
High	5240	2.650	2.183	5.53	5.80	-0.27

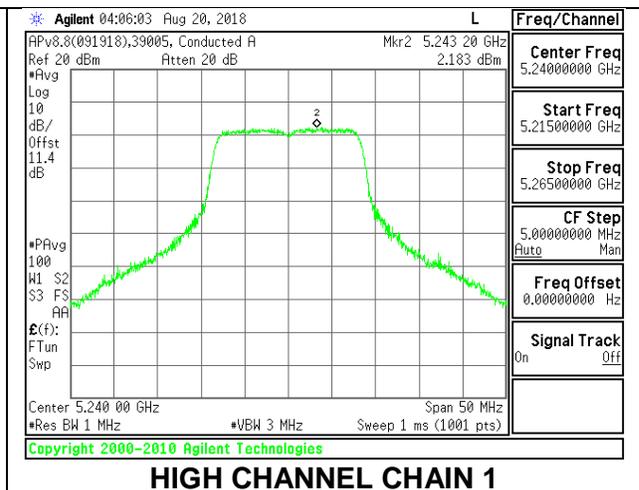
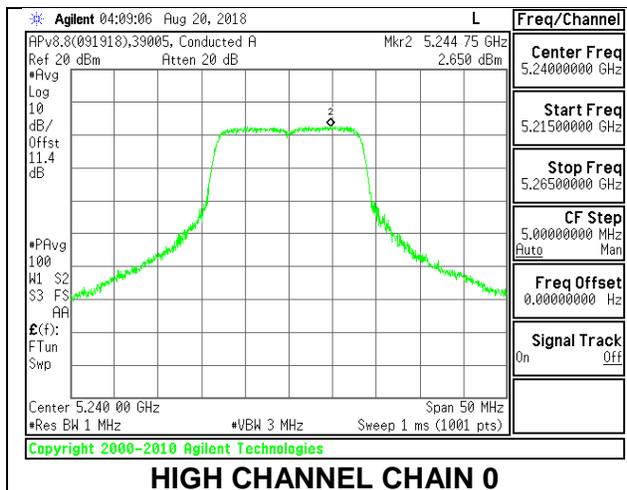
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	17.66	4.20	4.20
Mid	5200	17.67	4.20	4.20
High	5240	17.70	4.20	4.20

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.47	18.27	18.27	11.00	10.00	5.80
Mid	5200	24.00	22.47	18.27	18.27	11.00	10.00	5.80
High	5240	24.00	22.48	18.28	18.28	11.00	10.00	5.80

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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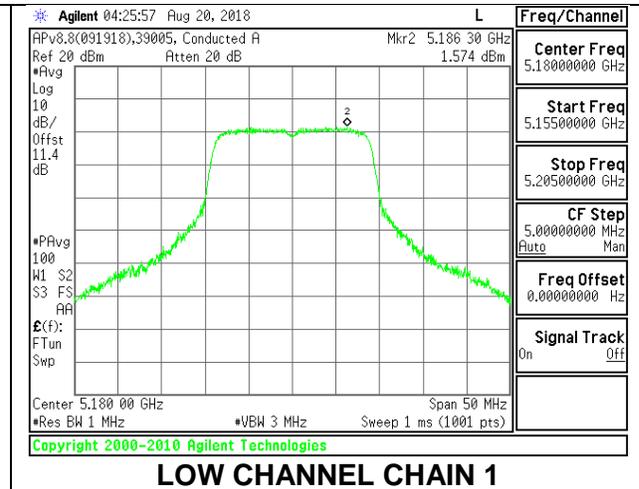
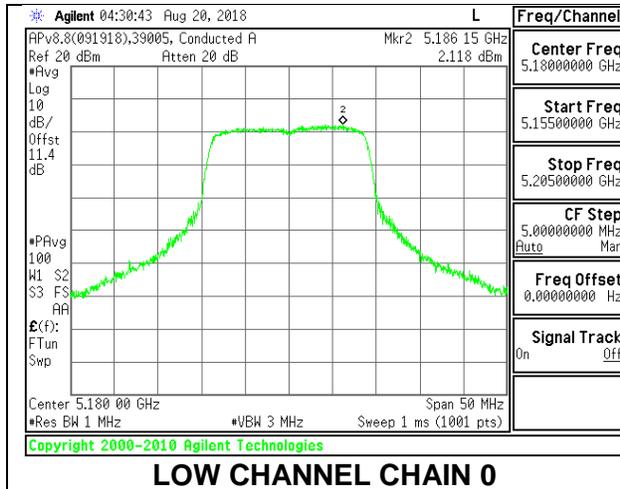
Output Power Results

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	12.82	12.45	15.65	18.27	-2.62
Mid	5200	13.57	12.44	16.05	18.27	-2.22
High	5240	13.31	12.75	16.05	18.28	-2.23

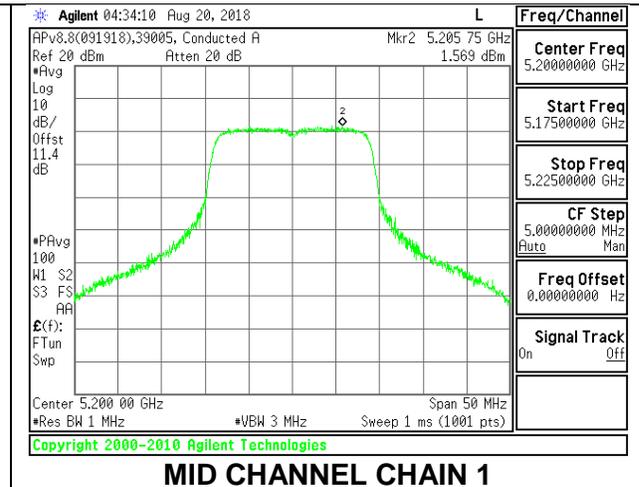
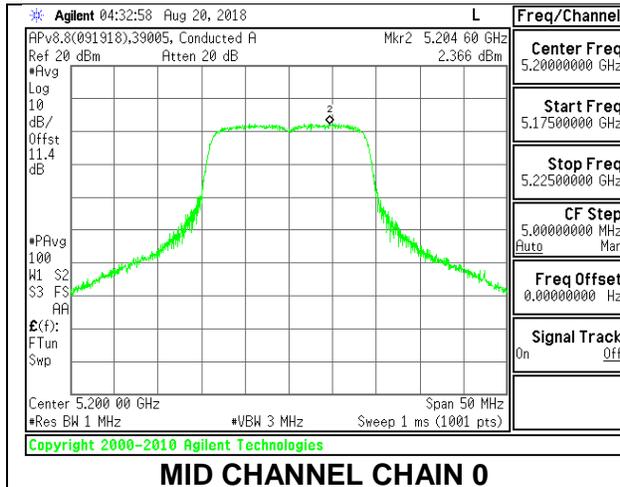
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	2.118	1.574	4.96	5.80	-0.84
Mid	5200	2.366	1.569	5.10	5.80	-0.70
High	5240	2.530	2.010	5.39	5.80	-0.41

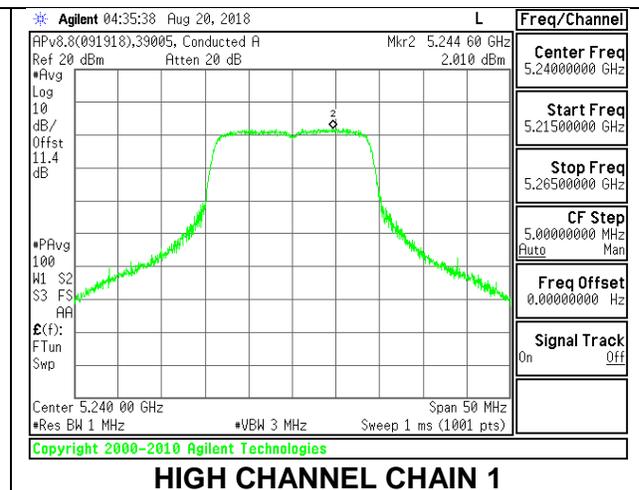
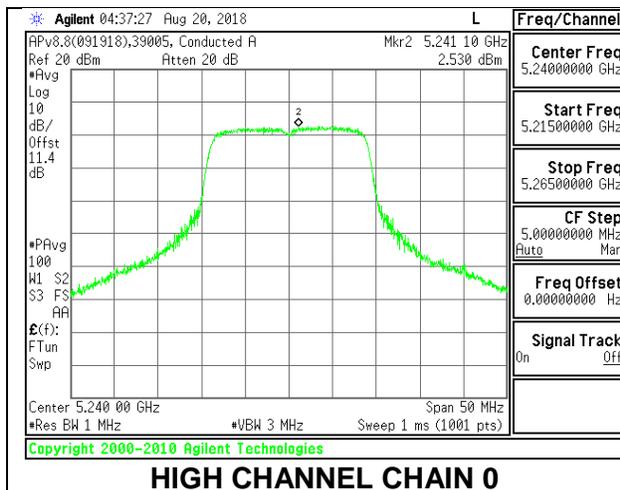
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.3. 802.11a MODE IN THE 5.3 GHz BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	35.00	4.20	4.20	24.00	11.00
Mid	5300	34.25	4.20	4.20	24.00	11.00
High	5320	32.50	4.20	4.20	24.00	11.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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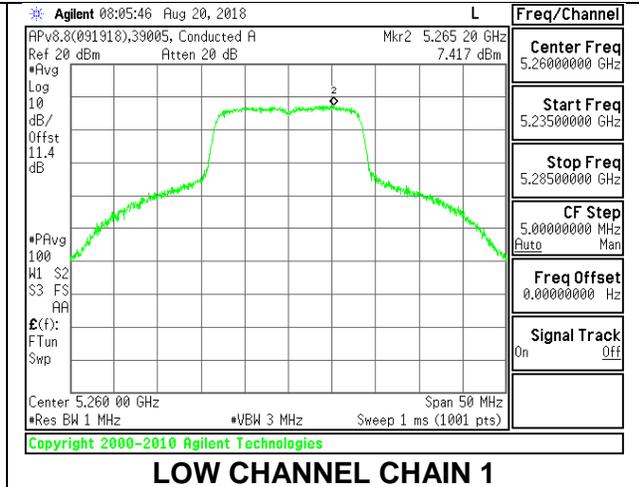
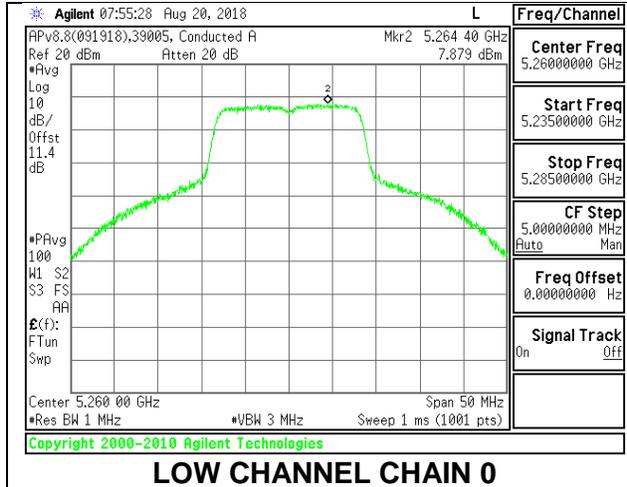
Output Power Results

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	18.20	17.80	21.01	24.00	-2.99
Mid	5300	17.82	18.13	20.99	24.00	-3.01
High	5320	17.78	18.07	20.94	24.00	-3.06

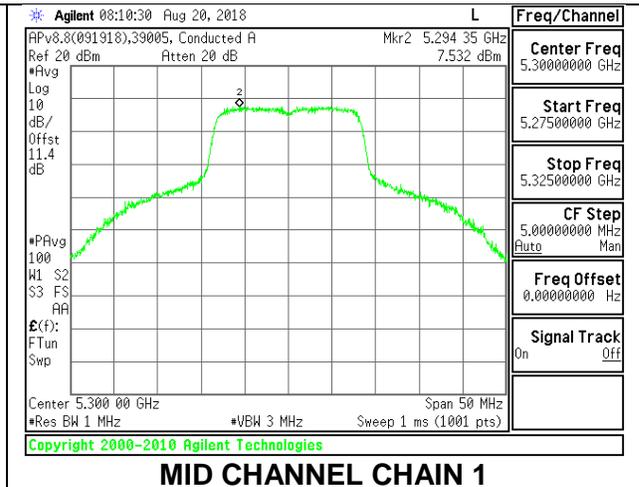
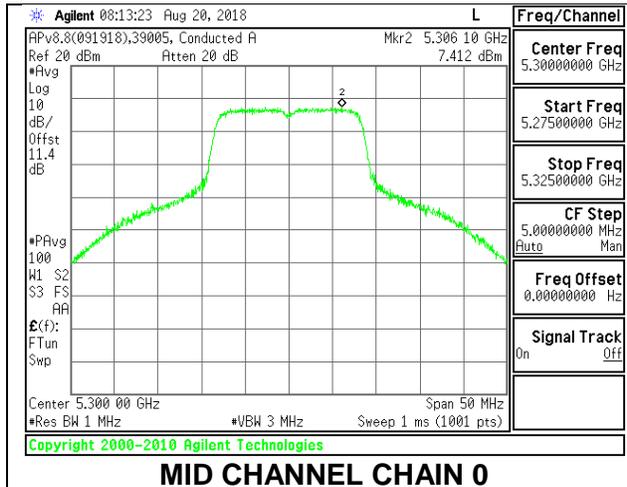
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	7.879	7.417	10.76	11.00	-0.24
Mid	5300	7.412	7.532	10.58	11.00	-0.42
High	5320	7.176	7.660	10.54	11.00	-0.46

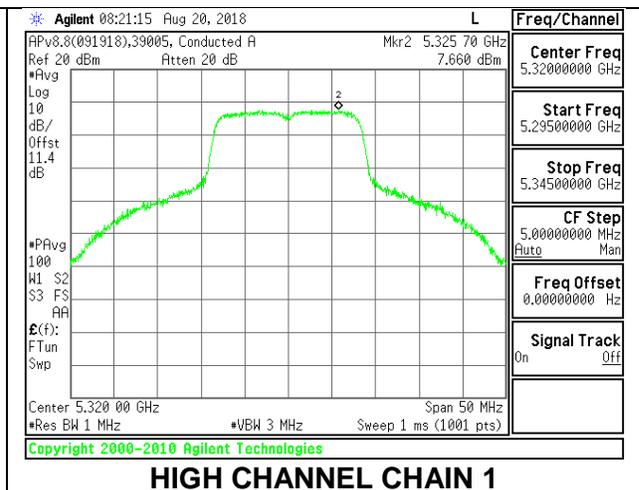
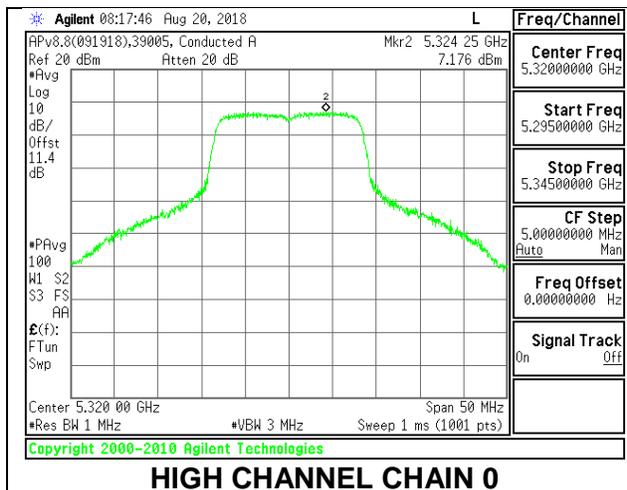
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.4. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	38.05	4.20	4.20	24.00	11.00
Mid	5300	34.25	4.20	4.20	24.00	11.00
High	5320	34.50	4.20	4.20	24.00	11.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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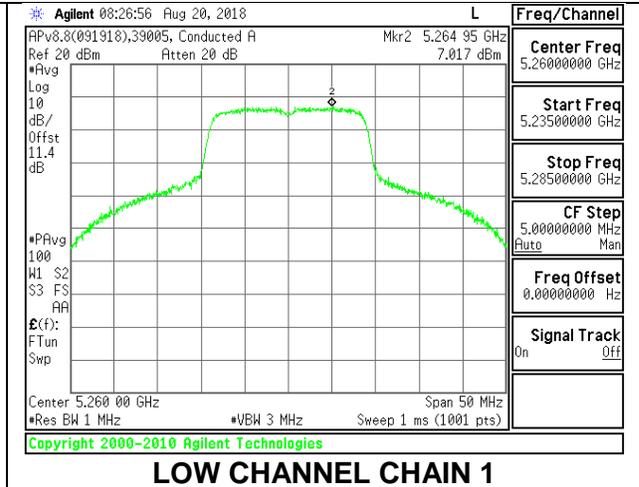
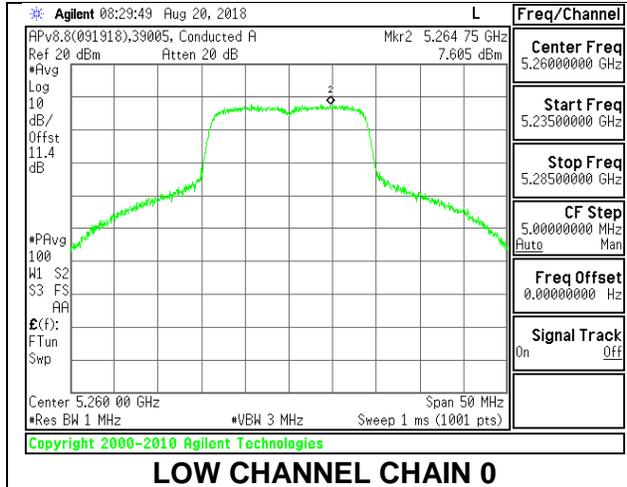
Output Power Results

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	18.22	17.80	21.03	24.00	-2.97
Mid	5300	17.81	18.12	20.98	24.00	-3.02
High	5320	17.77	18.07	20.93	24.00	-3.07

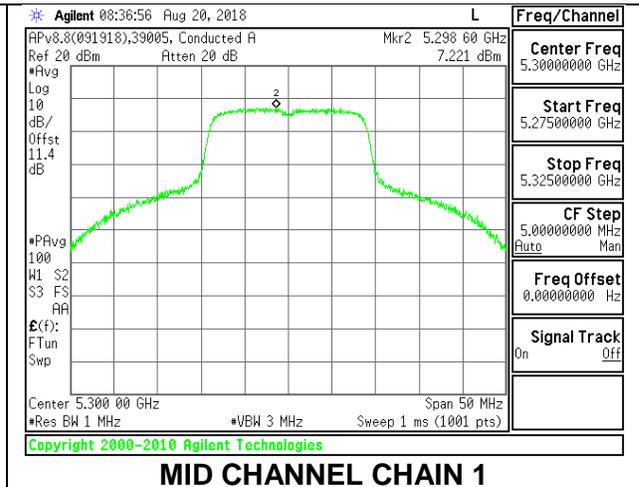
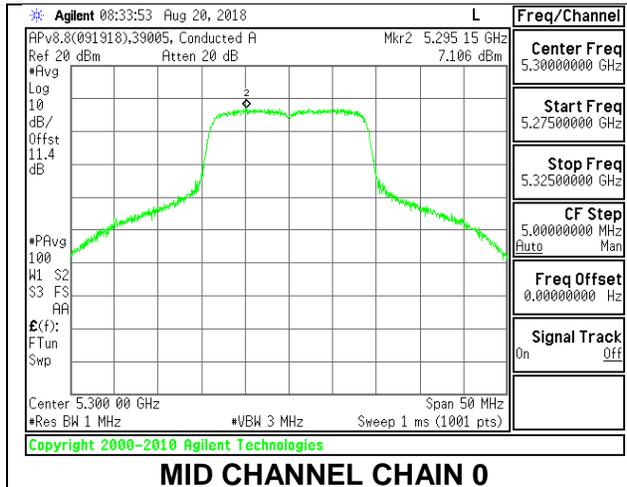
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	7.605	7.017	10.43	11.00	-0.57
Mid	5300	7.106	7.221	10.27	11.00	-0.73
High	5320	6.995	7.287	10.25	11.00	-0.75

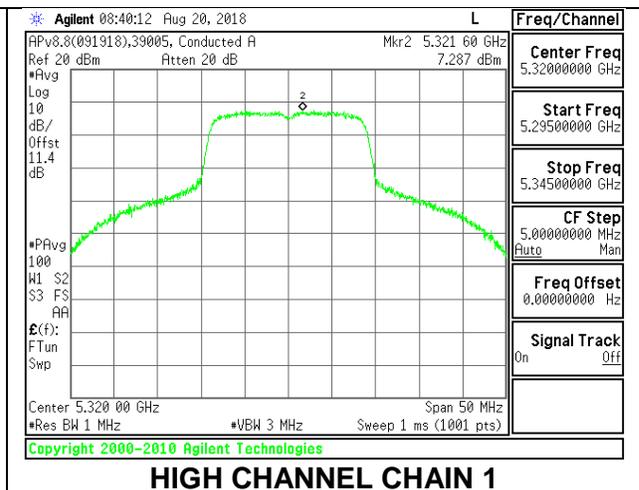
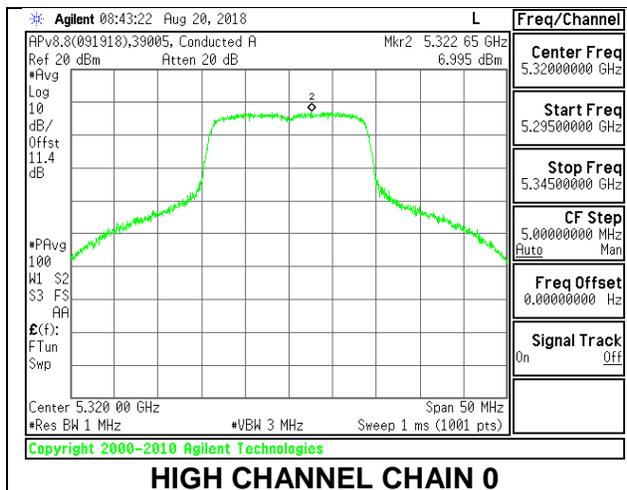
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.5. 802.11a MODE IN THE 5.6 GHz BAND

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	36.50	16.56	4.20	4.20
Mid	5580	35.70	16.60	4.20	4.20
High	5700	27.85	16.48	4.20	4.20

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.19	29.19	23.19	11.00	11.00	11.00
Mid	5580	24.00	23.20	29.20	23.20	11.00	11.00	11.00
High	5700	24.00	23.17	29.17	23.17	11.00	11.00	11.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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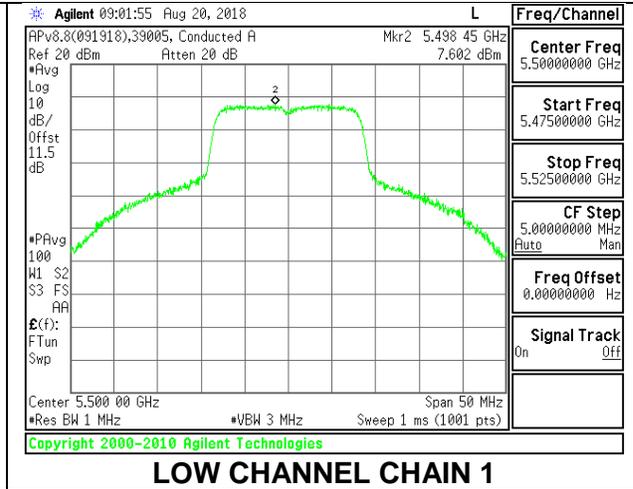
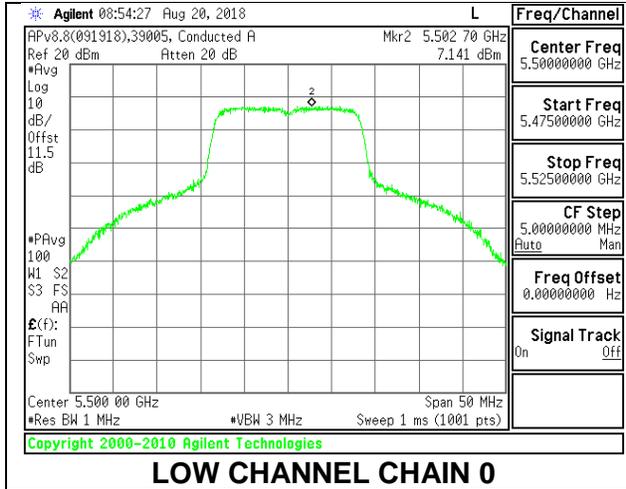
Output Power Results

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	18.04	18.35	21.21	23.19	-1.98
Mid	5580	18.07	18.06	21.08	23.20	-2.13
High	5700	16.82	17.32	20.09	23.17	-3.08

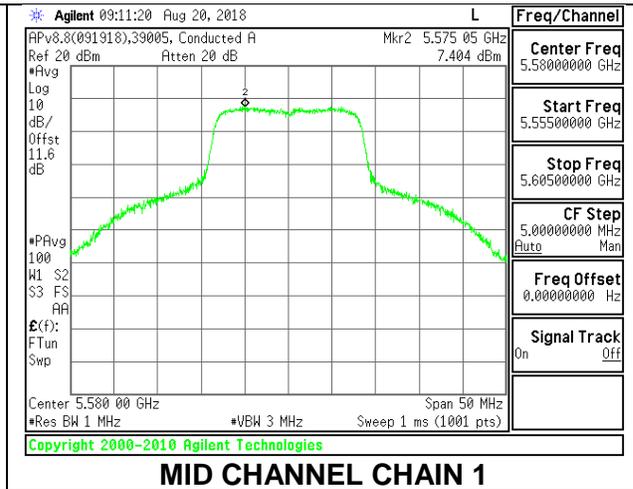
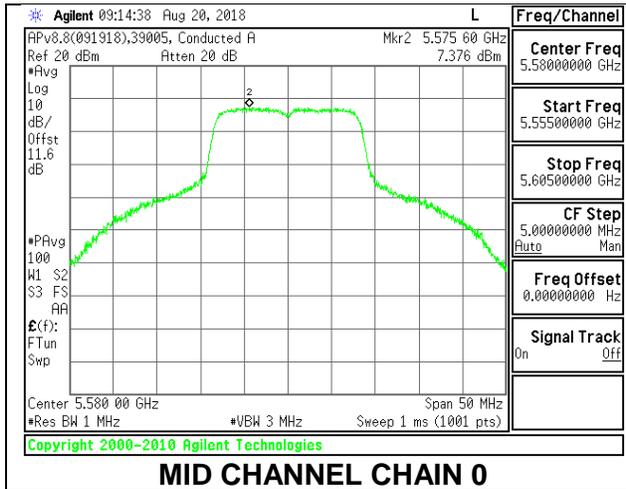
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	7.141	7.602	10.49	11.00	-0.51
Mid	5580	7.376	7.404	10.50	11.00	-0.50
High	5700	6.548	6.951	9.86	11.00	-1.14

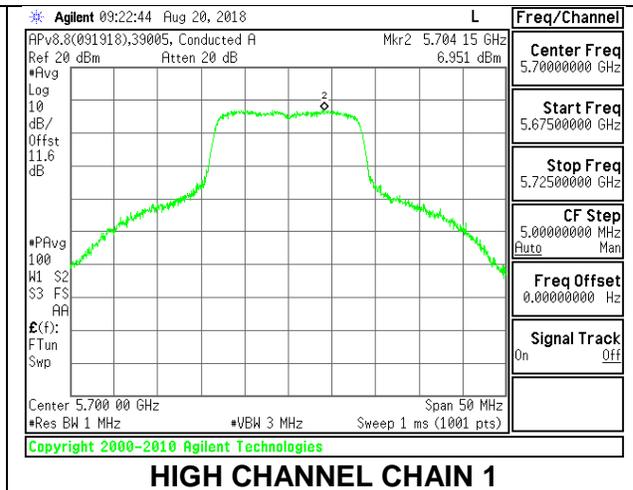
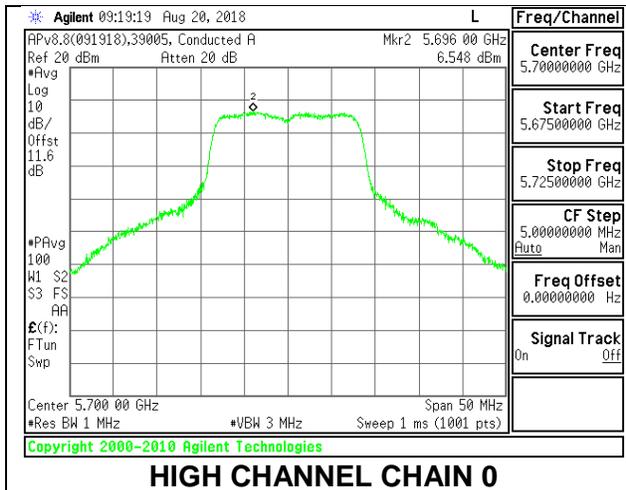
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.6. 802.11n HT20 MODE IN THE 5.6 GHz BAND

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	38.05	17.84	4.20	4.20
Mid	5580	37.25	17.78	4.20	4.20
High	5700	28.45	17.65	4.20	4.20

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.51	29.51	23.51	11.00	11.00
Mid	5580	24.00	23.50	29.50	23.50	11.00	11.00
High	5700	24.00	23.47	29.47	23.47	11.00	11.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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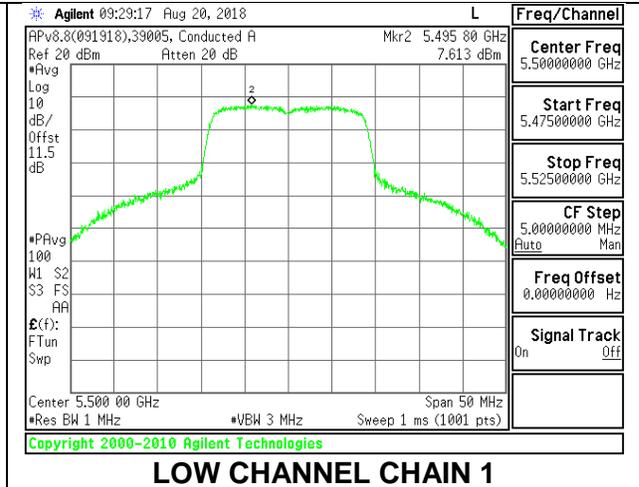
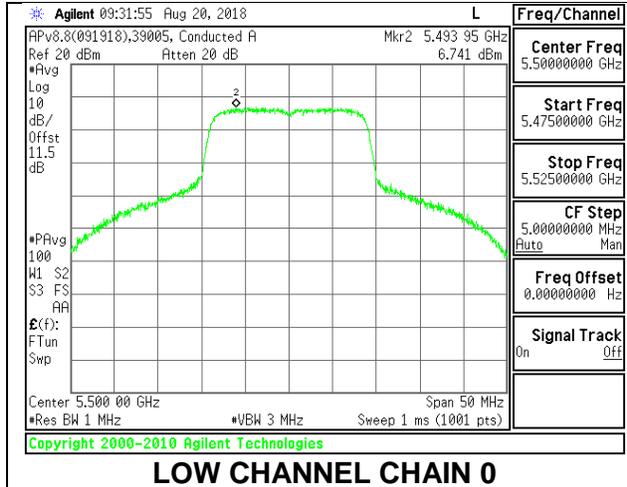
Output Power Results

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	18.03	18.28	21.17	23.51	-2.35
Mid	5580	18.05	18.05	21.06	23.50	-2.44
High	5700	16.83	17.3	20.08	23.47	-3.39

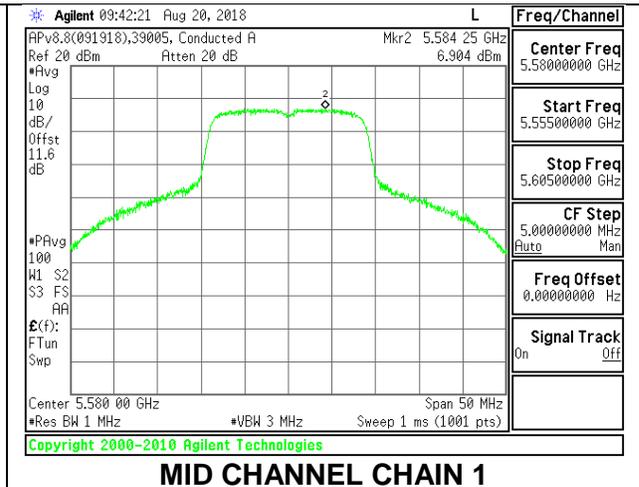
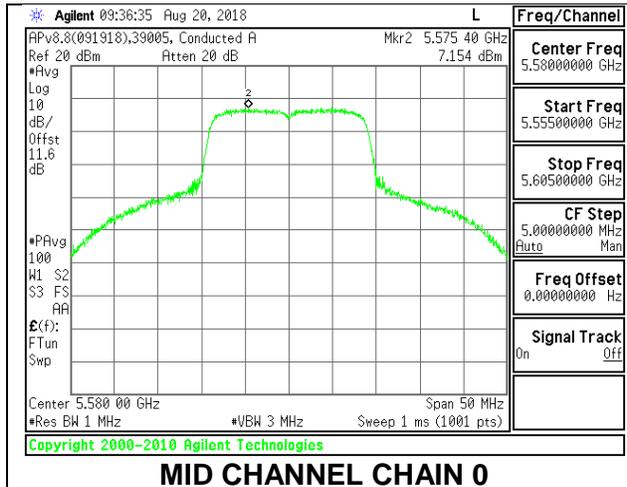
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	6.741	7.613	10.309	11.00	-0.69
Mid	5580	7.154	6.904	10.141	11.00	-0.86
High	5700	6.575	6.687	9.742	11.00	-1.26

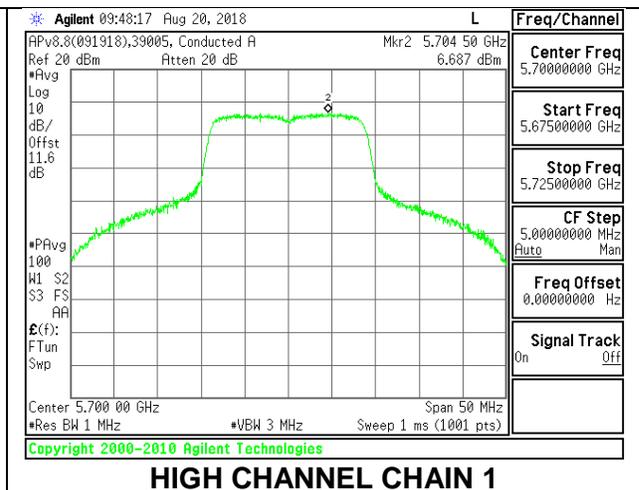
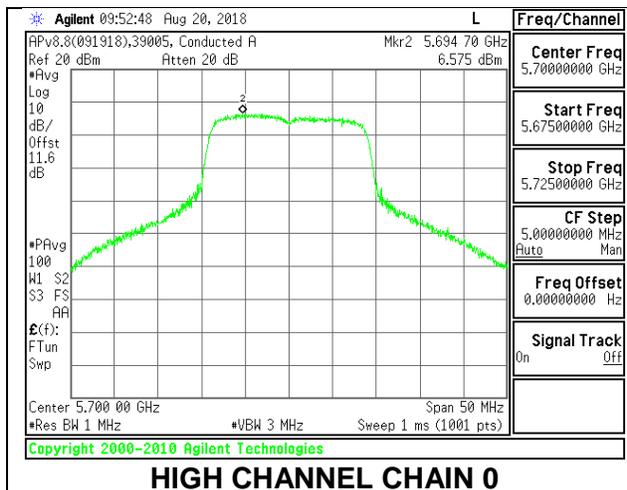
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.7. 802.11a MODE IN THE 5.8 GHz BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500 kHz)
Low	5745	4.20	4.20	30.00	30.00
Mid	5785	4.20	4.20	30.00	30.00
High	5825	4.20	4.20	30.00	30.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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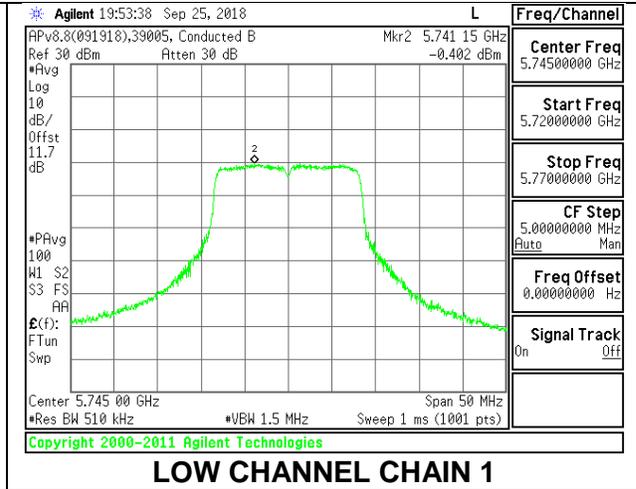
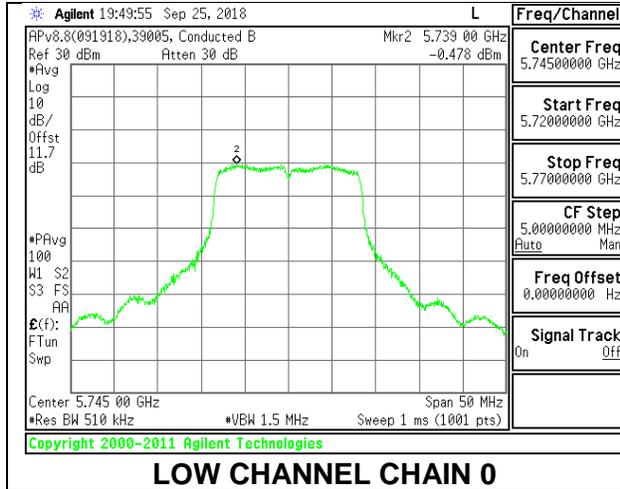
Output Power Results

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	11.63	11.6	14.63	30.00	-15.37
Mid	5785	12.02	12.03	15.04	30.00	-14.96
High	5825	12.13	11.8	14.98	30.00	-15.02

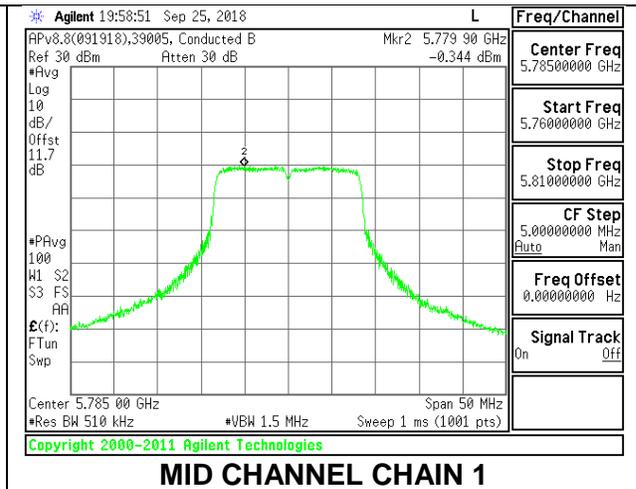
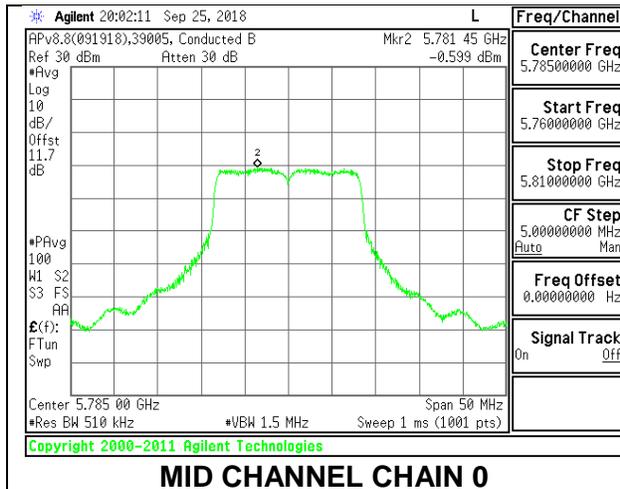
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 500kHz)	Chain 1 Meas PSD (dBm/ 500kHz)	Total Corr'd PSD (dBm/ 500kHz)	PSD Limit (dBm/ 500kHz)	PSD Margin (dB)
Low	5745	-0.478	-0.402	2.670	30.00	-27.33
Mid	5785	-0.599	-0.344	2.641	30.00	-27.36
High	5825	-0.052	-1.081	2.574	30.00	-27.43

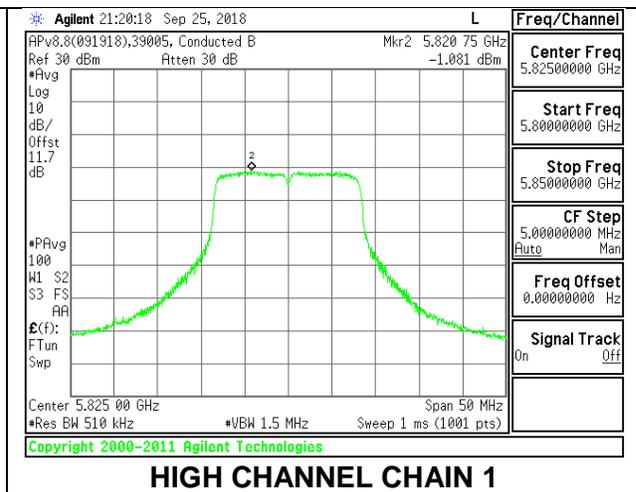
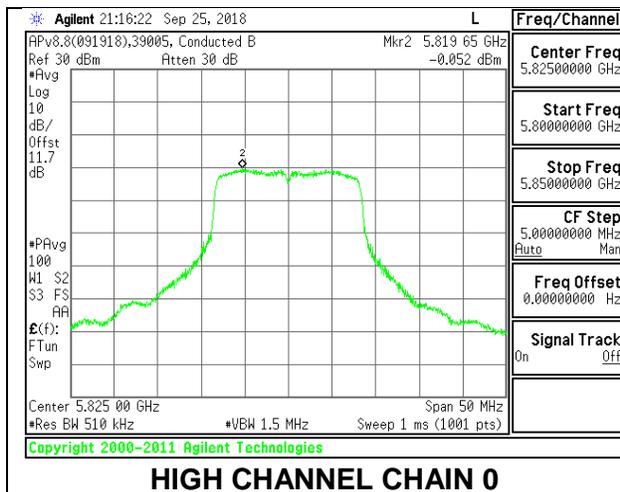
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.8. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500kHz)
Low	5745	4.20	4.20	30.00	30.00
Mid	5785	4.20	4.20	30.00	30.00
High	5825	4.20	4.20	30.00	30.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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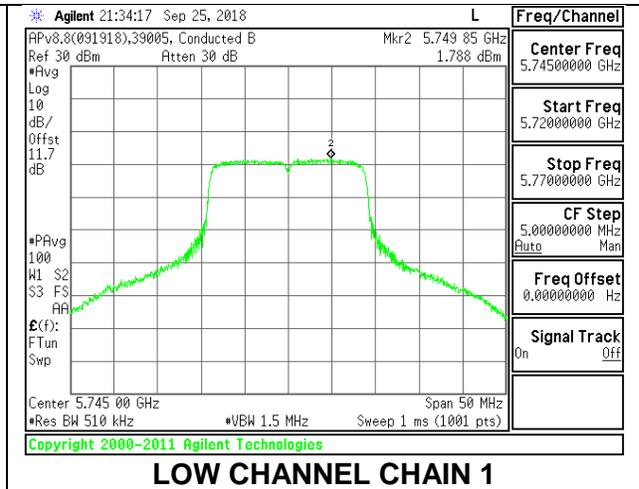
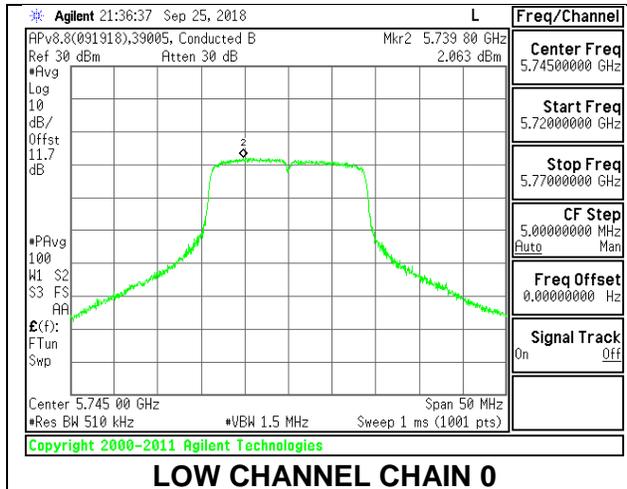
Output Power Results

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	15.42	15.43	18.44	30.00	-11.56
Mid	5785	15.00	15.01	18.02	30.00	-11.98
High	5825	15.58	15.23	18.42	30.00	-11.58

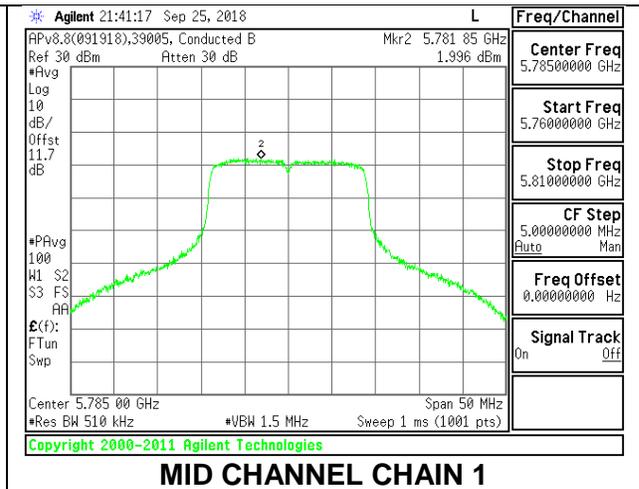
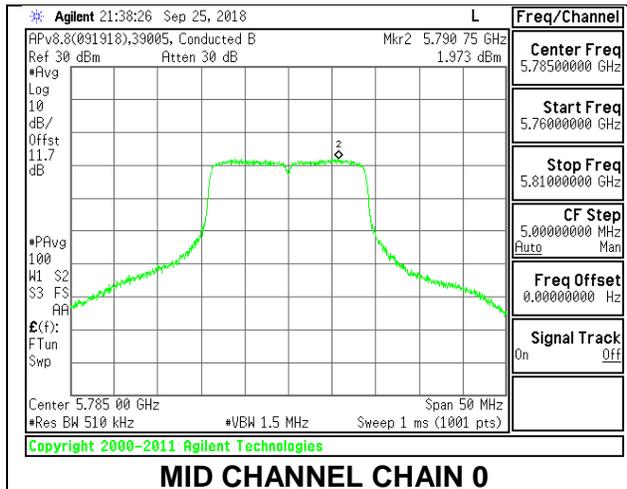
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 500kHz)	Chain 1 Meas PSD (dBm/ 500kHz)	Total Corr'd PSD (dBm/ 500kHz)	PSD Limit (dBm/ 500kHz)	PSD Margin (dB)
Low	5745	2.063	1.788	5.04	30.00	-24.96
Mid	5785	1.973	1.996	5.09	30.00	-24.91
High	5825	2.527	1.927	5.35	30.00	-24.65

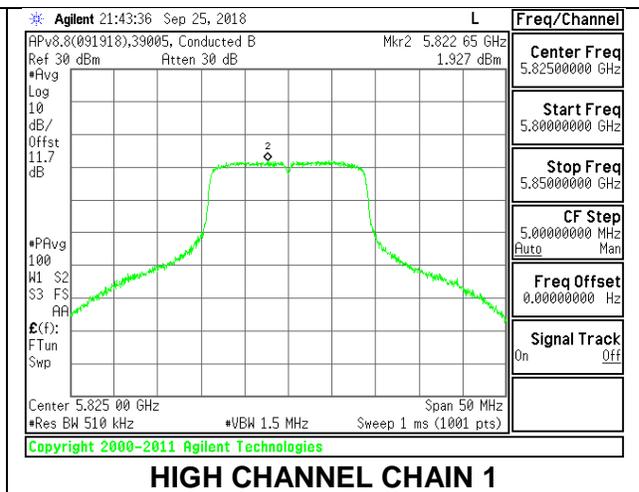
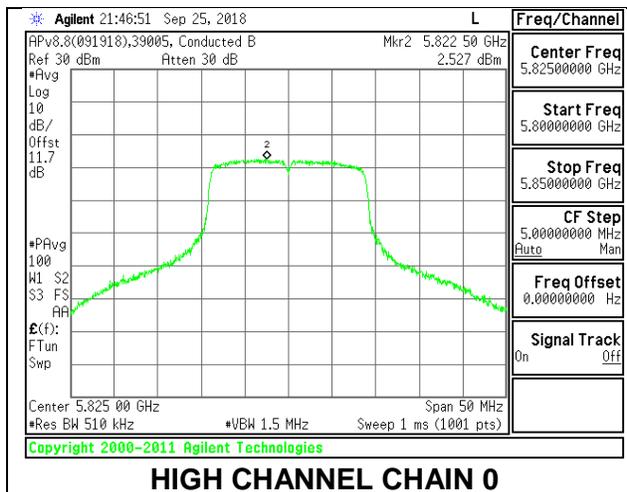
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-3) -Un-Restricted bands

After January 01, 2019 for Outside of the Restricted Bands Emissions

RSS 247 Issue 2 Sections

6.2.1.2 (for 5150-5250 MHz band)

6.2.2.2 (for 5250-5350 MHz band)

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement 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 pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final 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.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

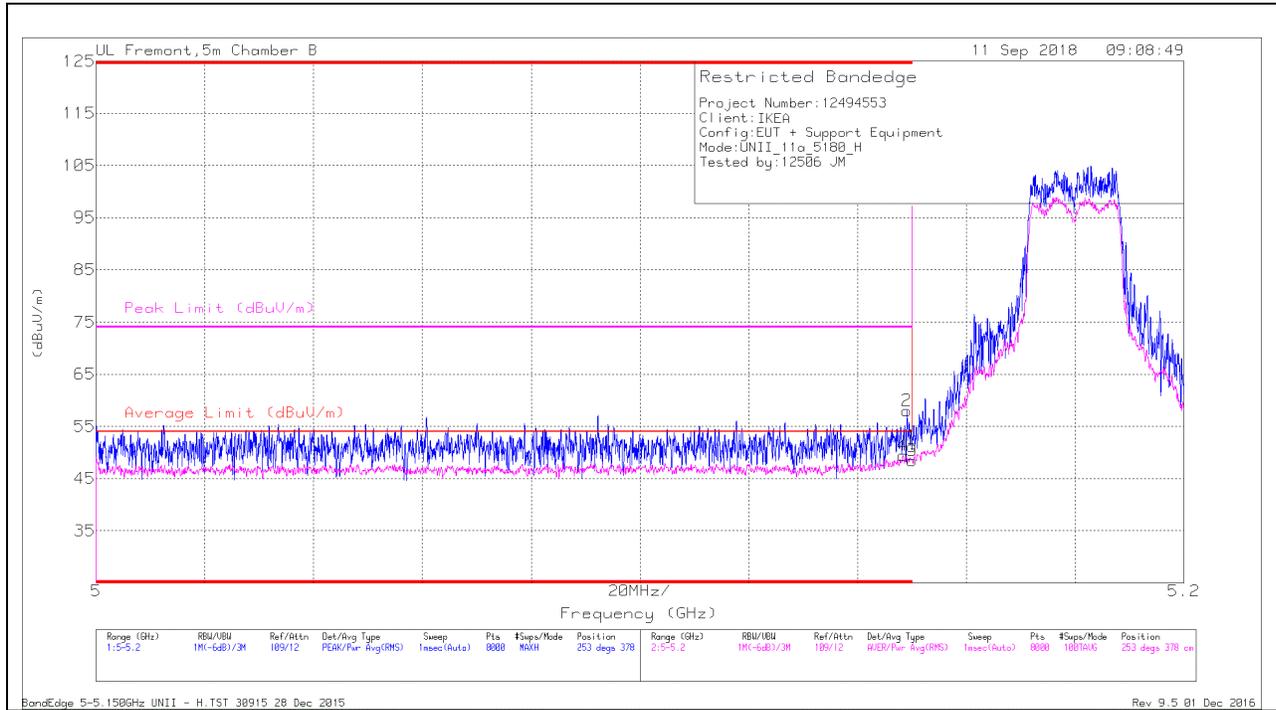
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.1. TRANSMITTER ABOVE 1 GHz

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

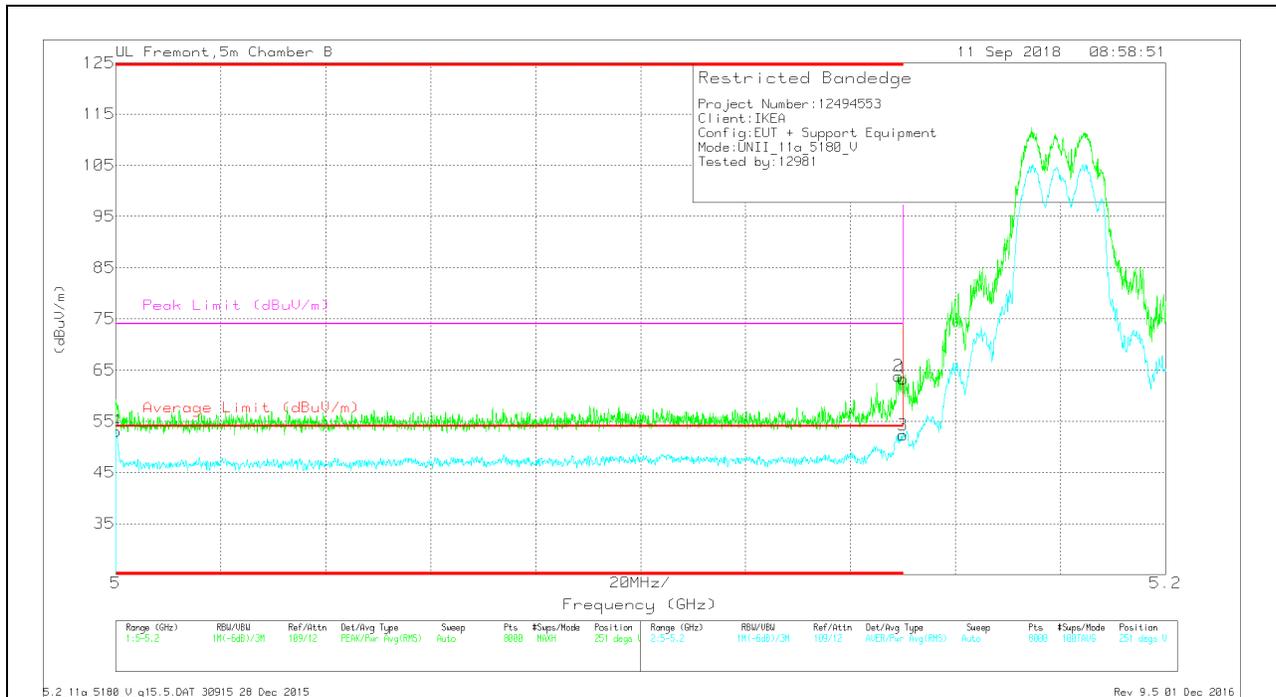
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	34.2	Pk	34.6	-17.6	0	51.2	-	-	74	-22.8	253	378	H
2	* 5.149	40.67	Pk	34.6	-17.3	0	57.97	-	-	74	-16.03	253	378	H
3	* 5.15	31.33	RMS	34.6	-17.6	.1	48.43	54	-5.57	-	-	253	378	H
4	* 5.148	32.07	RMS	34.6	-17.4	.1	49.37	54	-4.63	-	-	253	378	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	46.33	Pk	34.6	-17.6	0	63.33	-	-	74	-10.67	251	135	V
2	* 5.149	46.52	Pk	34.6	-17.3	0	63.82	-	-	74	-10.18	251	135	V
3	* 5.15	35.18	RMS	34.6	-17.6	.1	52.28	54	-1.72	-	-	251	135	V
4	* 5	35.85	RMS	34.6	-17.5	.1	53.05	54	-.95	-	-	251	135	V

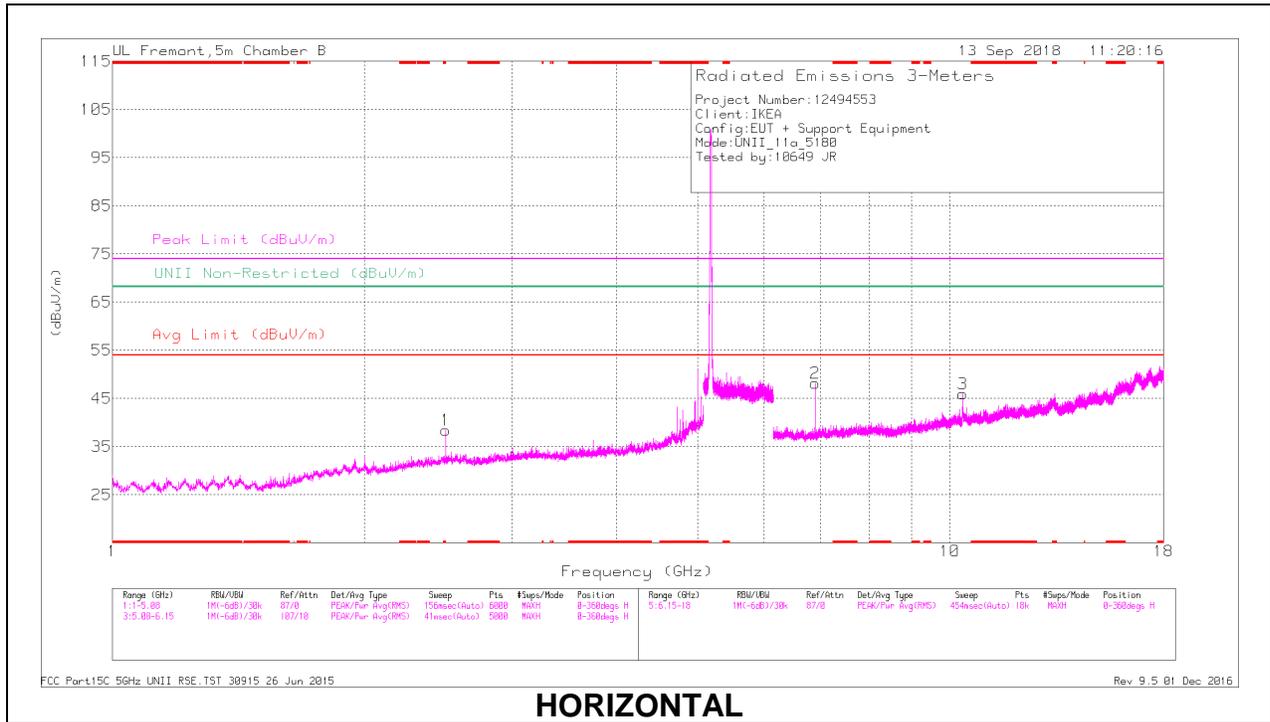
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

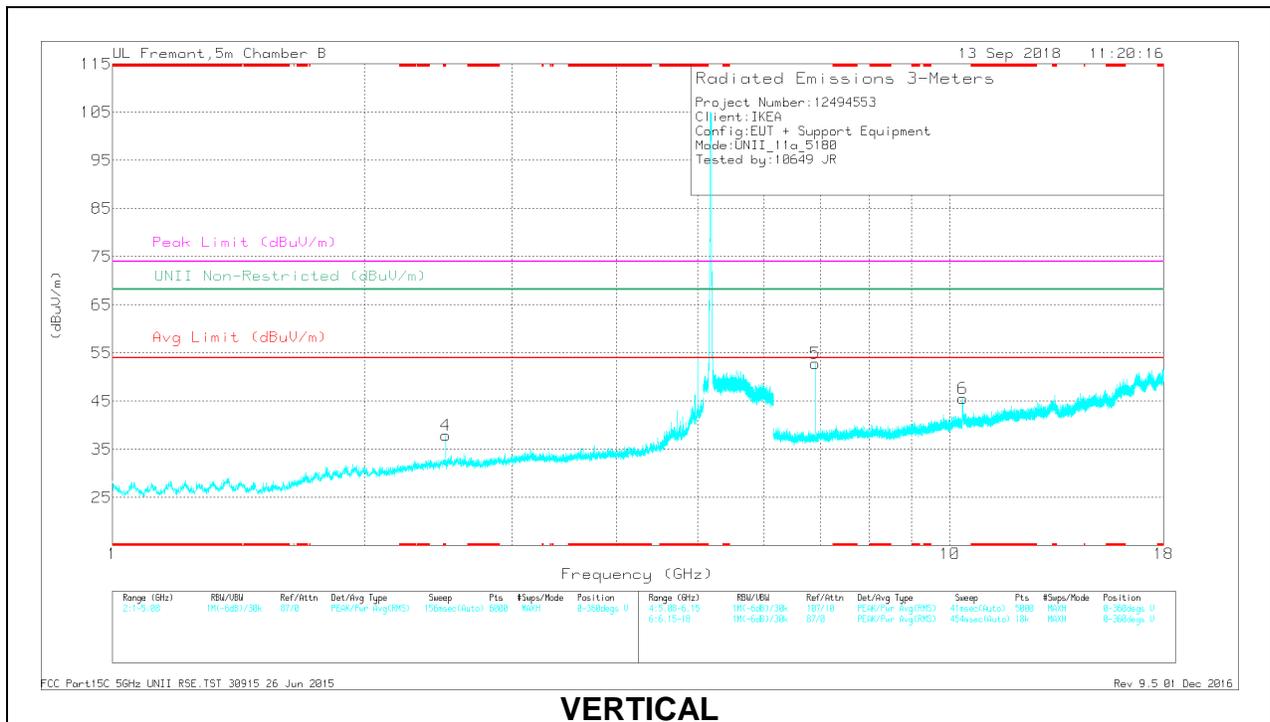
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

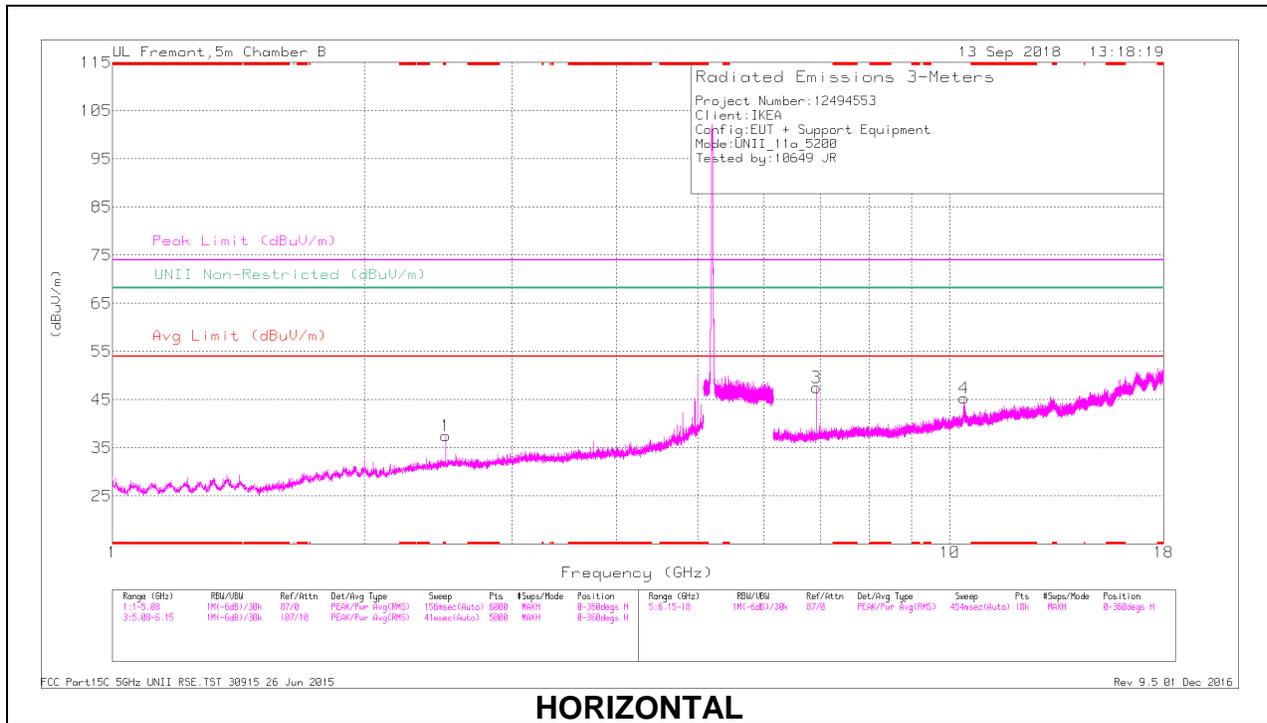
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.5	45.18	PK-U	32.7	-32.1	0	45.78	-	-	-	-	68.2	-22.42	106	181	V
4	3.041	39.2	PK-U	32.9	-31.7	0	40.4	-	-	-	-	68.2	-27.8	70	202	H
2	6.907	44.37	PK-U	35.8	-28.4	0	51.77	-	-	-	-	68.2	-16.43	30	144	H
5	6.907	48.02	PK-U	35.8	-28.4	0	55.42	-	-	-	-	68.2	-12.78	160	139	V
3	10.358	39.78	PK-U	37.8	-23.2	0	54.38	-	-	-	-	68.2	-13.82	268	198	H
6	10.363	41.68	PK-U	37.8	-23	0	56.48	-	-	-	-	68.2	-11.72	229	306	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

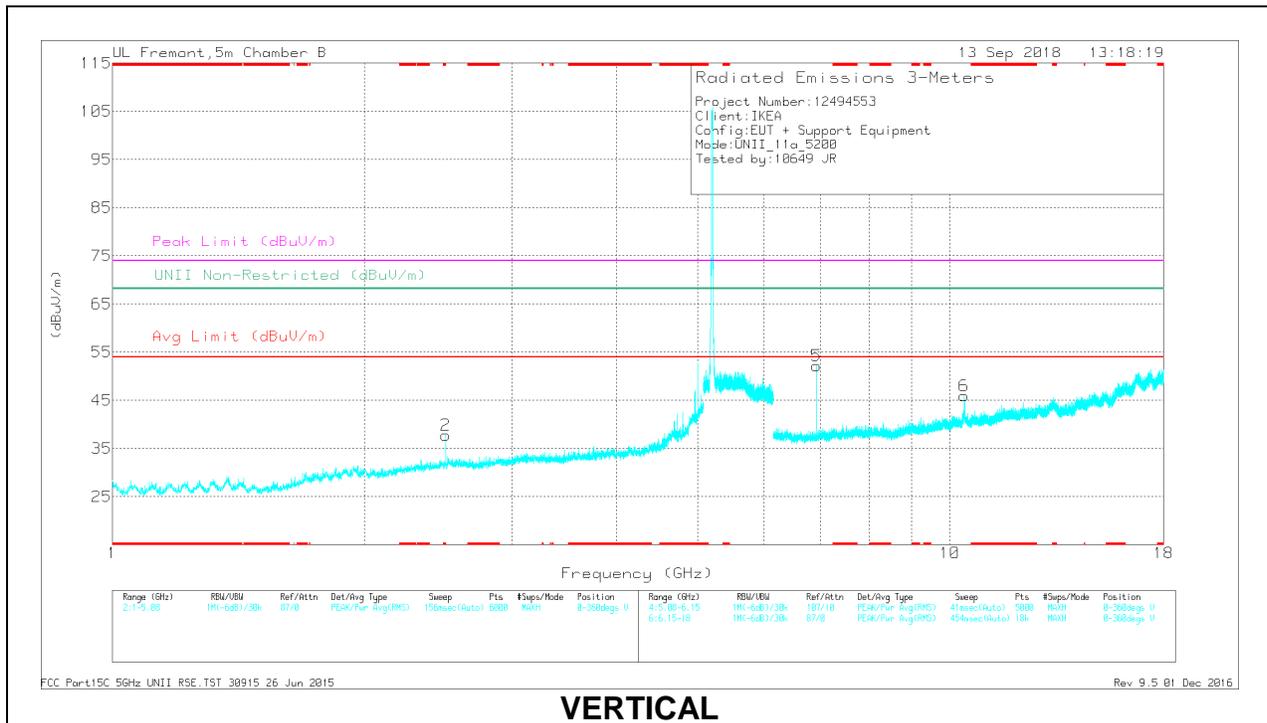
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

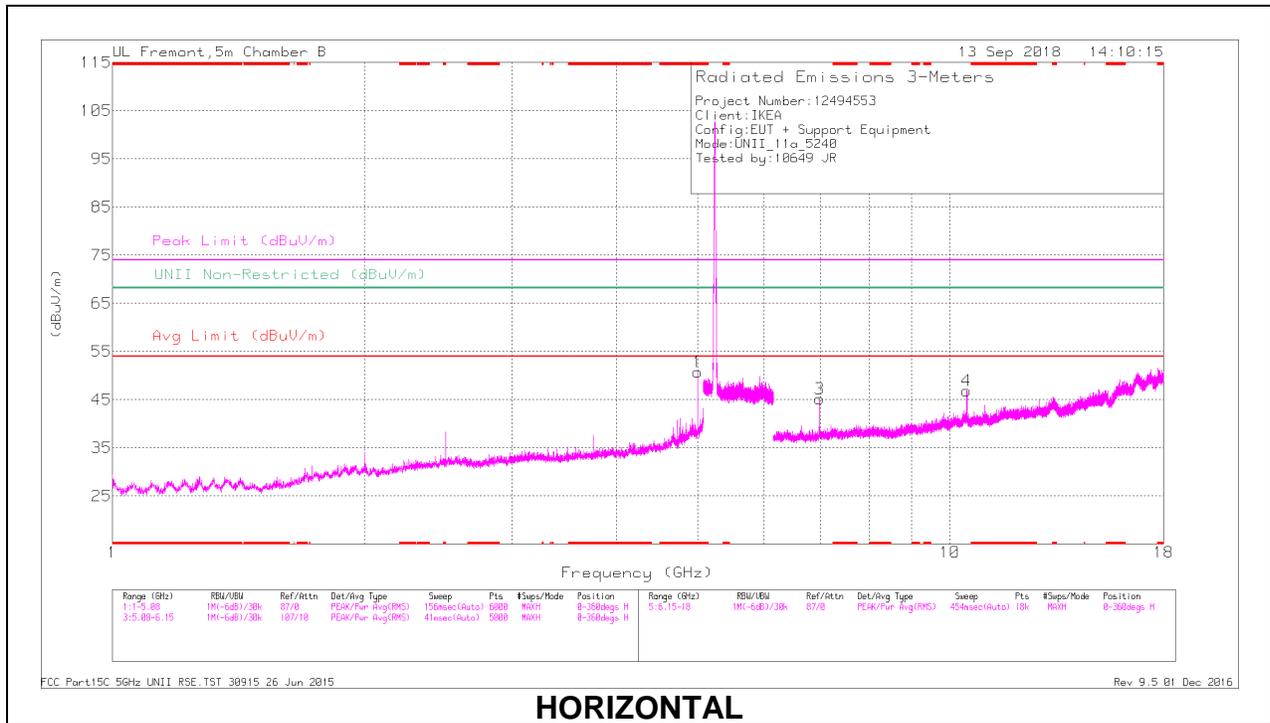
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.5	36.31	ADR	32.7	-32.1	.1	37.01	54	-16.99	-	-	-	-	45	203	H
	* 2.5	42.62	PK-U	32.7	-32.1	0	43.22	-	-	-	-	68.2	-24.98	45	203	H
2	2.5	44.15	PK-U	32.7	-32.1	0	44.75	-	-	-	-	68.2	-23.45	106	182	V
3	6.933	43.02	PK-U	35.8	-28.1	0	50.72	-	-	-	-	68.2	-17.48	18	192	H
5	6.933	46.65	PK-U	35.8	-28.1	0	54.35	-	-	-	-	68.2	-13.85	166	259	V
4	10.398	39.04	PK-U	37.9	-22.5	0	54.44	-	-	-	-	68.2	-13.76	155	236	H
6	10.402	41.39	PK-U	37.9	-22.4	0	56.89	-	-	-	-	68.2	-11.31	226	252	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

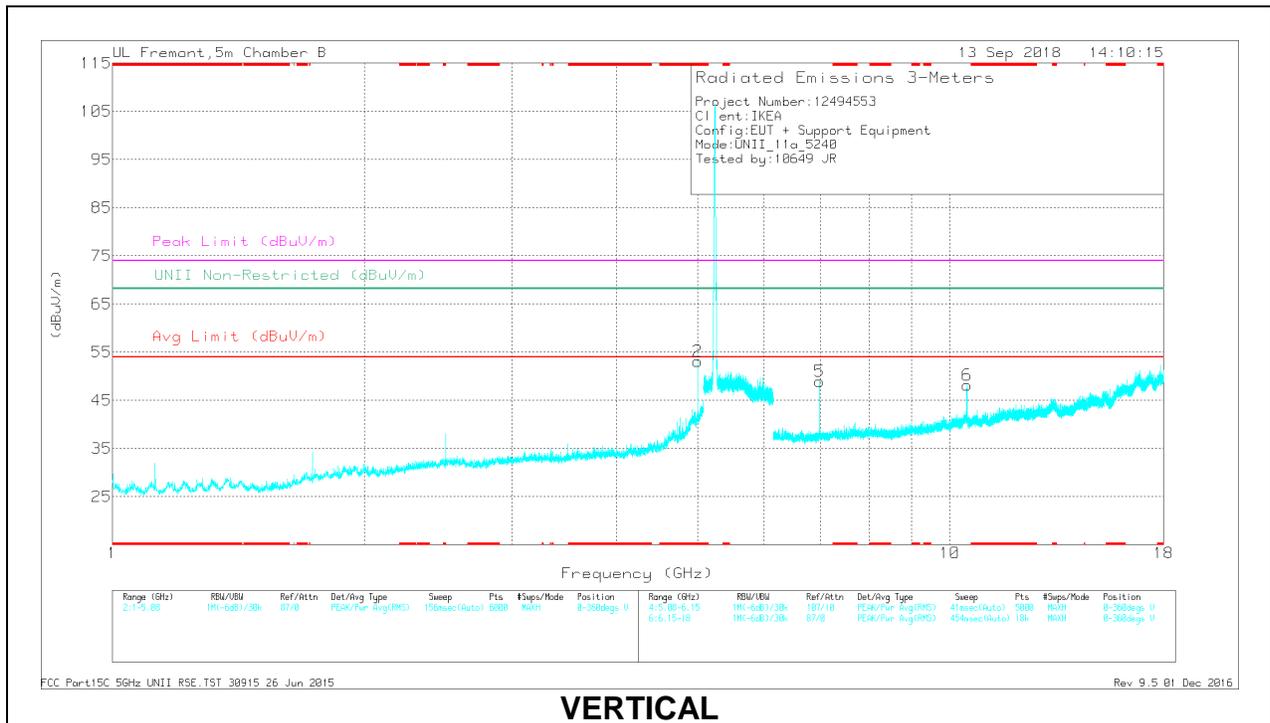
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5	47.17	PK-U	34.6	-27.8	0	53.97	-	-	74	-20.03	-	-	48	205	H
	* 5	42.07	ADR	34.6	-27.8	.1	48.97	54	-5.03	-	-	-	-	48	205	H
2	* 5	50.99	PK-U	34.6	-27.8	0	57.79	-	-	74	-16.21	-	-	244	133	V
	* 5	45.73	ADR	34.6	-27.8	.1	52.63	54	-1.37	-	-	-	-	244	133	V
3	6.987	41.26	PK-U	35.9	-27.4	0	49.76	-	-	-	-	68.2	-18.44	14	200	H
5	6.987	44.75	PK-U	35.9	-27.4	0	53.25	-	-	-	-	68.2	-14.95	159	152	V
4	10.479	41.18	PK-U	37.8	-22.7	0	56.28	-	-	-	-	68.2	-11.92	217	337	H
6	10.482	44.38	PK-U	37.8	-22.8	0	59.38	-	-	-	-	68.2	-8.82	224	276	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

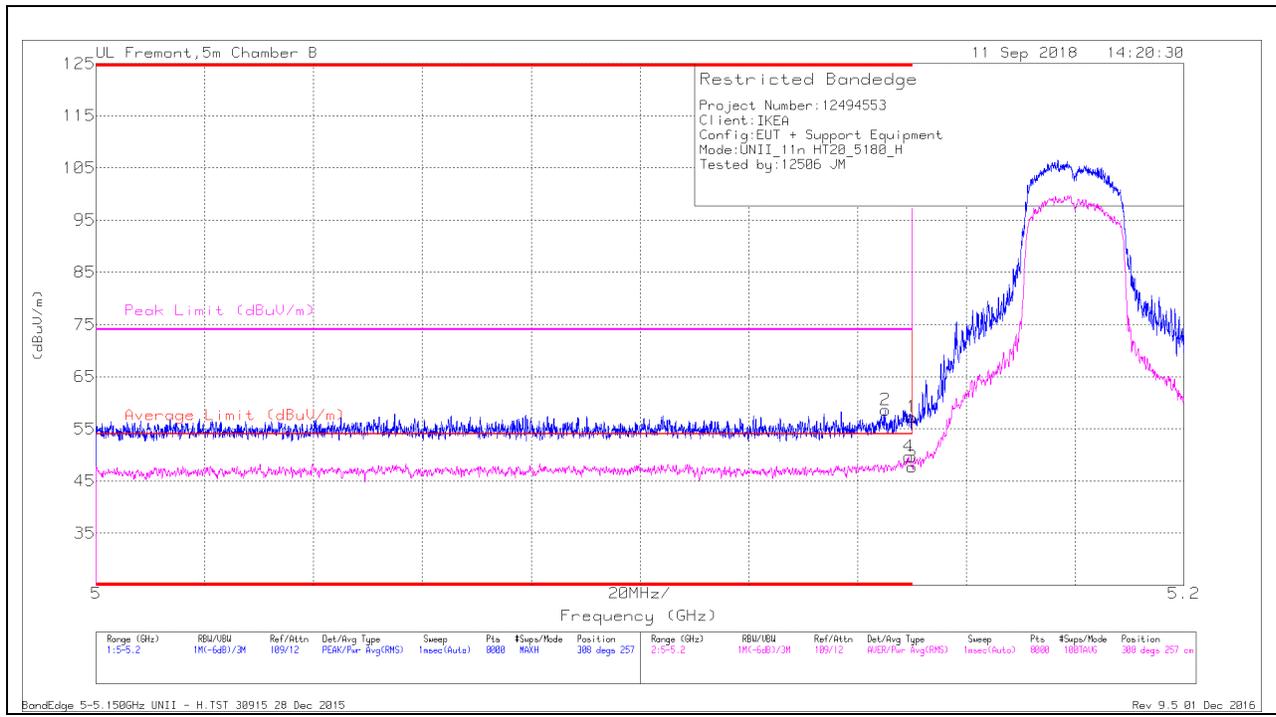
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

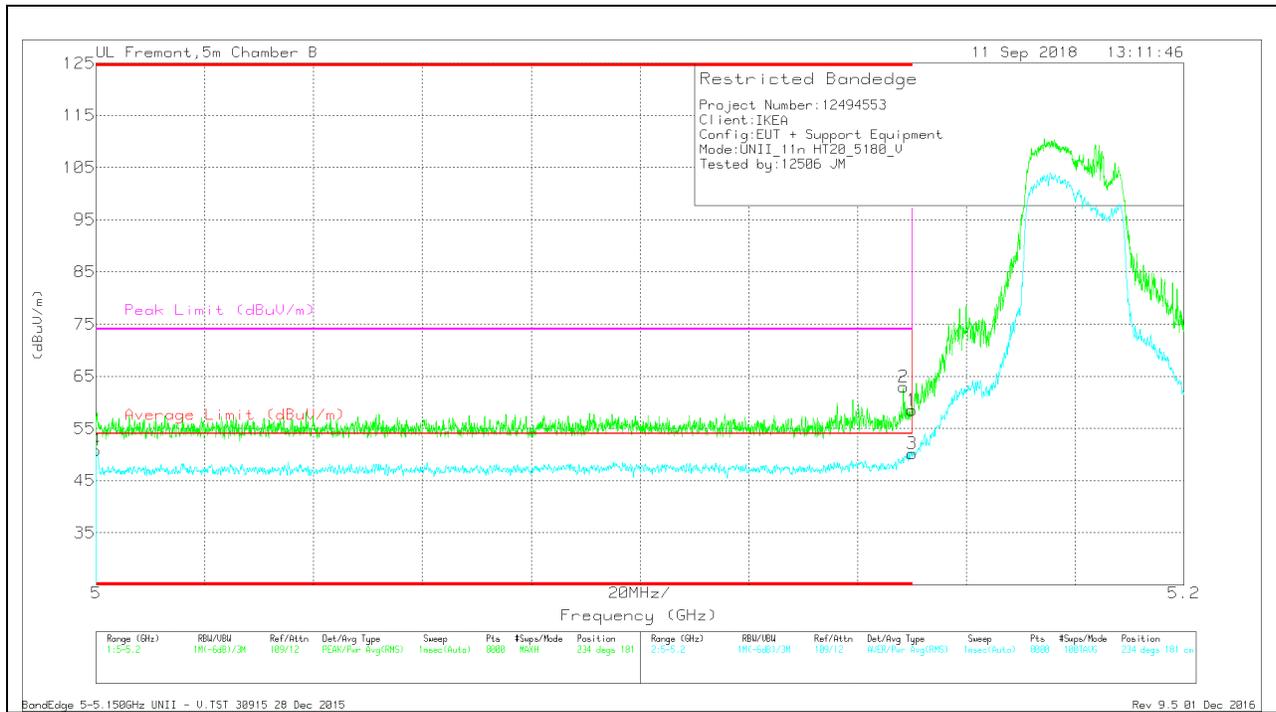
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	40.19	Pk	34.6	-17.6	0	57.19	-	-	74	-16.81	308	257	H
2	* 5.145	41.46	PK	34.6	-17.4	0	58.66	-	-	74	-15.34	308	257	H
3	* 5.15	30.64	RMS	34.6	-17.6	.1	47.74	54	-6.26	-	-	308	257	H
4	* 5.149	32.33	RMS	34.6	-17.4	.1	49.63	54	-4.37	-	-	308	257	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.15	41.45	Pk	34.6	-17.6	0	58.45	-	-	74	-15.55	234	181	V
2	* 5.148	45.78	Pk	34.6	-17.4	0	62.98	-	-	74	-11.02	234	181	V
3	* 5.15	33.09	RMS	34.6	-17.6	.1	50.19	54	-3.81	-	-	234	181	V
4	* 5	33.57	RMS	34.6	-17.5	.1	50.77	54	-3.23	-	-	234	181	V

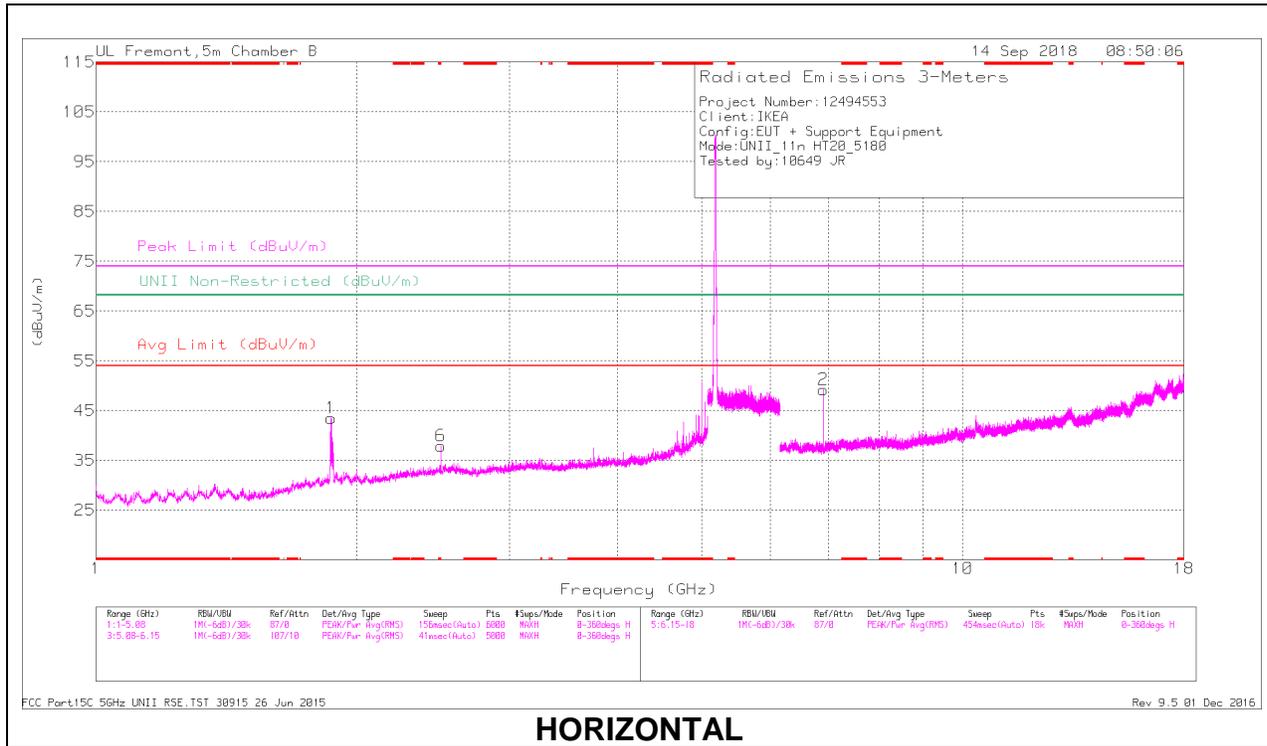
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

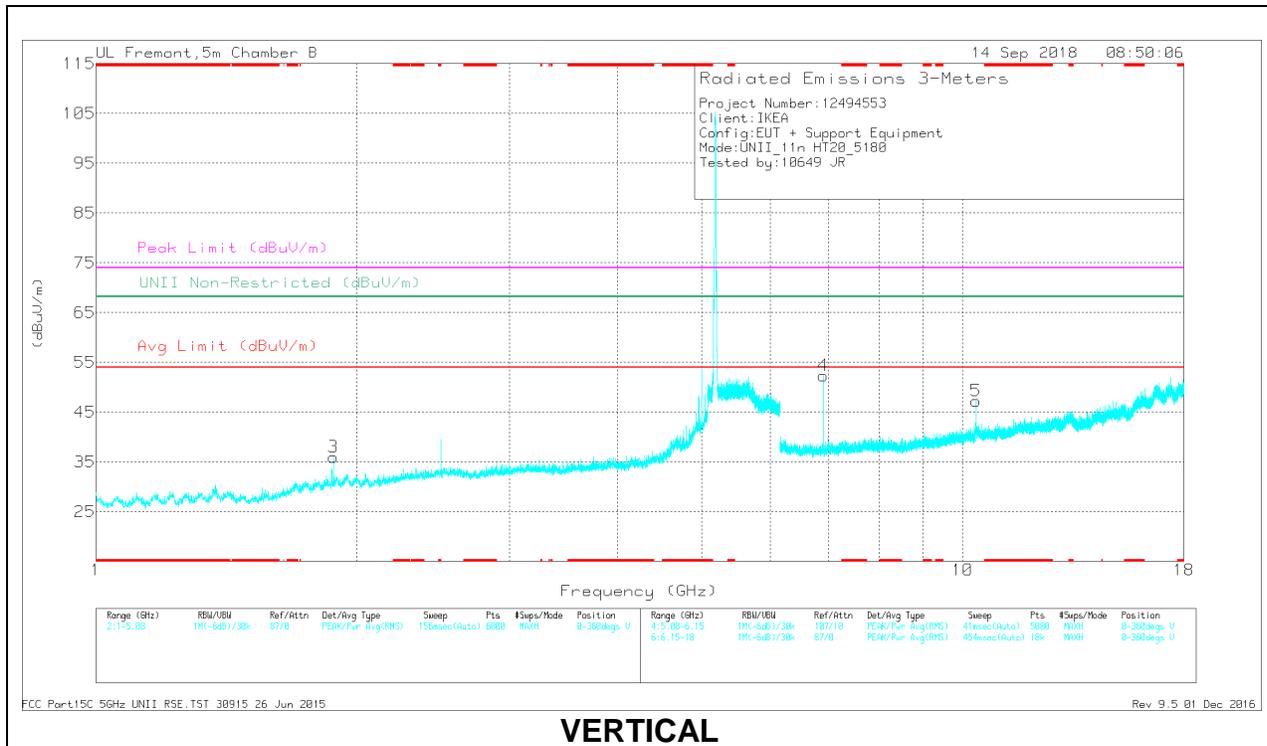
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



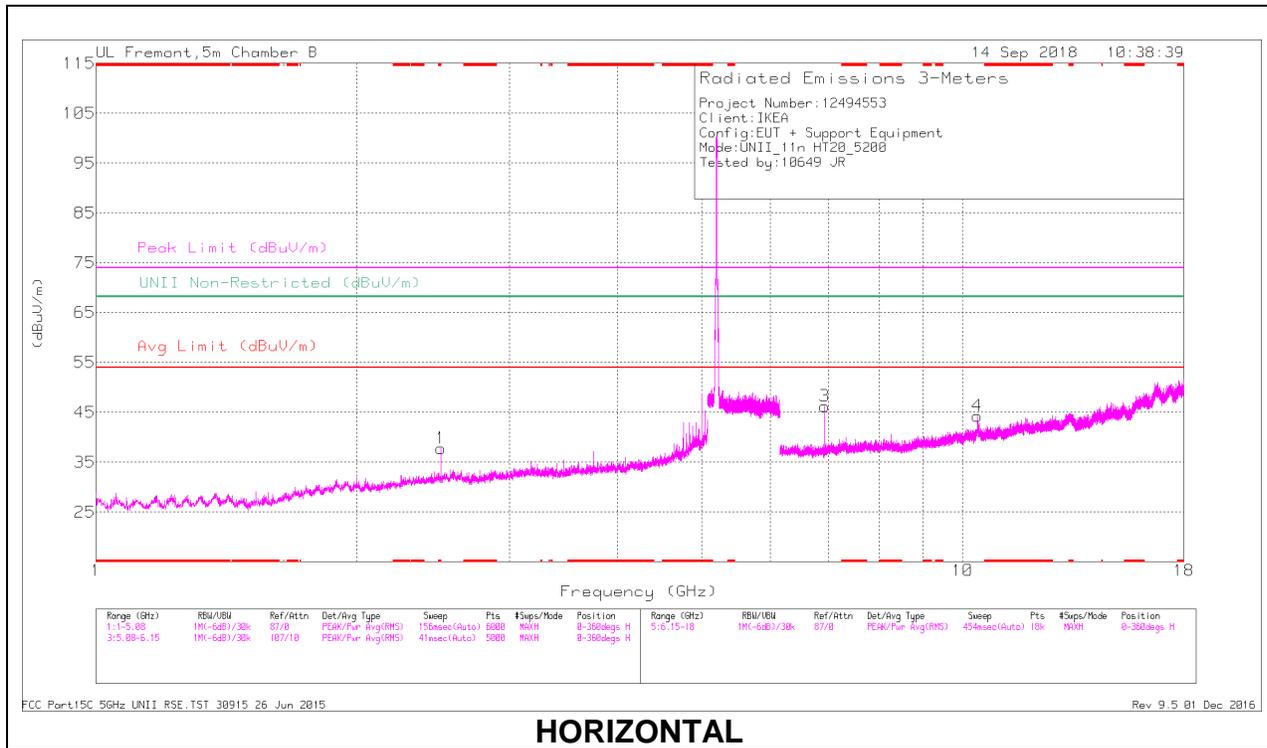
VERTICAL

RADIATED EMISSIONS

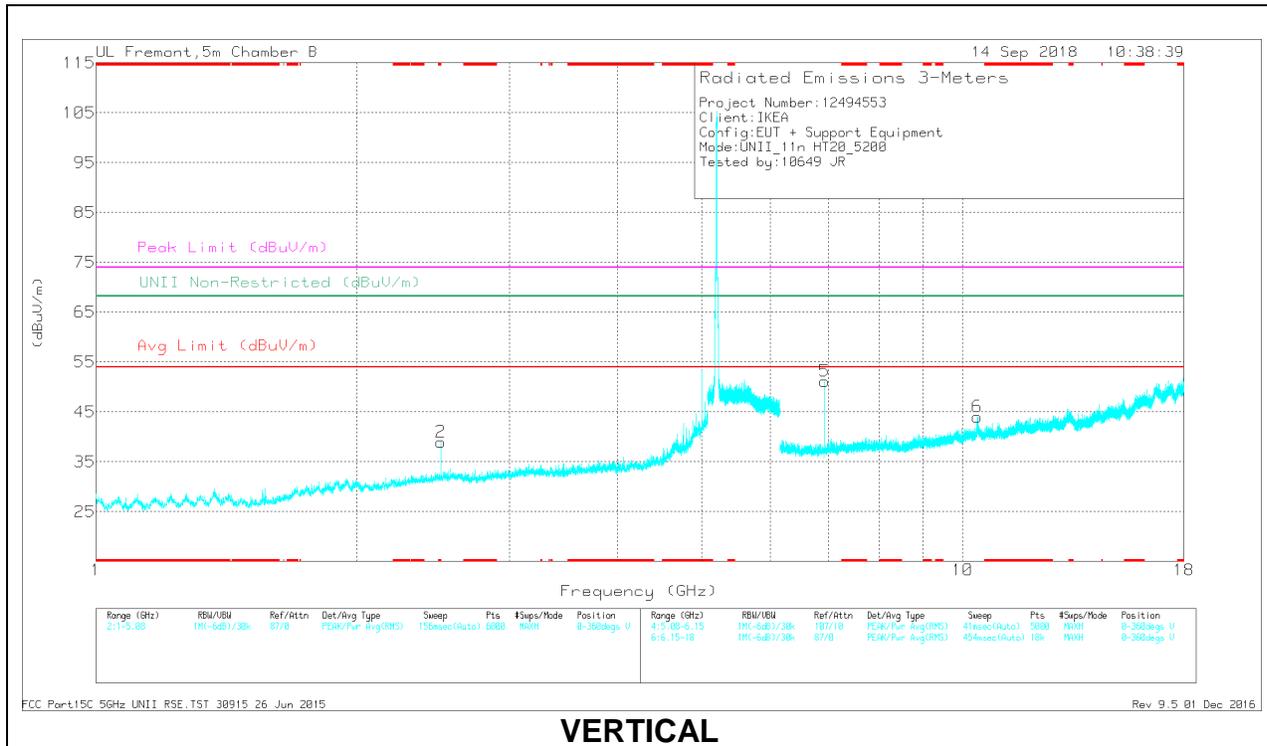
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.869	41.69	PK-U	31	-33.3	39.39	-	-	-	-	68.2	-28.81	39	247	H
3	1.877	39.94	PK-U	31	-33.3	37.64	-	-	-	-	68.2	-30.56	83	334	V
6	2.5	43.66	PK-U	32.7	-32.1	44.26	-	-	-	-	68.2	-23.94	75	175	H
2	6.907	43.98	PK-U	35.8	-28.4	51.38	-	-	-	-	68.2	-16.82	18	193	H
4	6.907	47.84	PK-U	35.8	-28.4	55.24	-	-	-	-	68.2	-12.96	160	135	V
5	10.358	38.46	PK-U	37.8	-23.2	53.06	-	-	-	-	68.2	-15.14	226	202	V

PK-U - U-NII: Maximum Peak

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

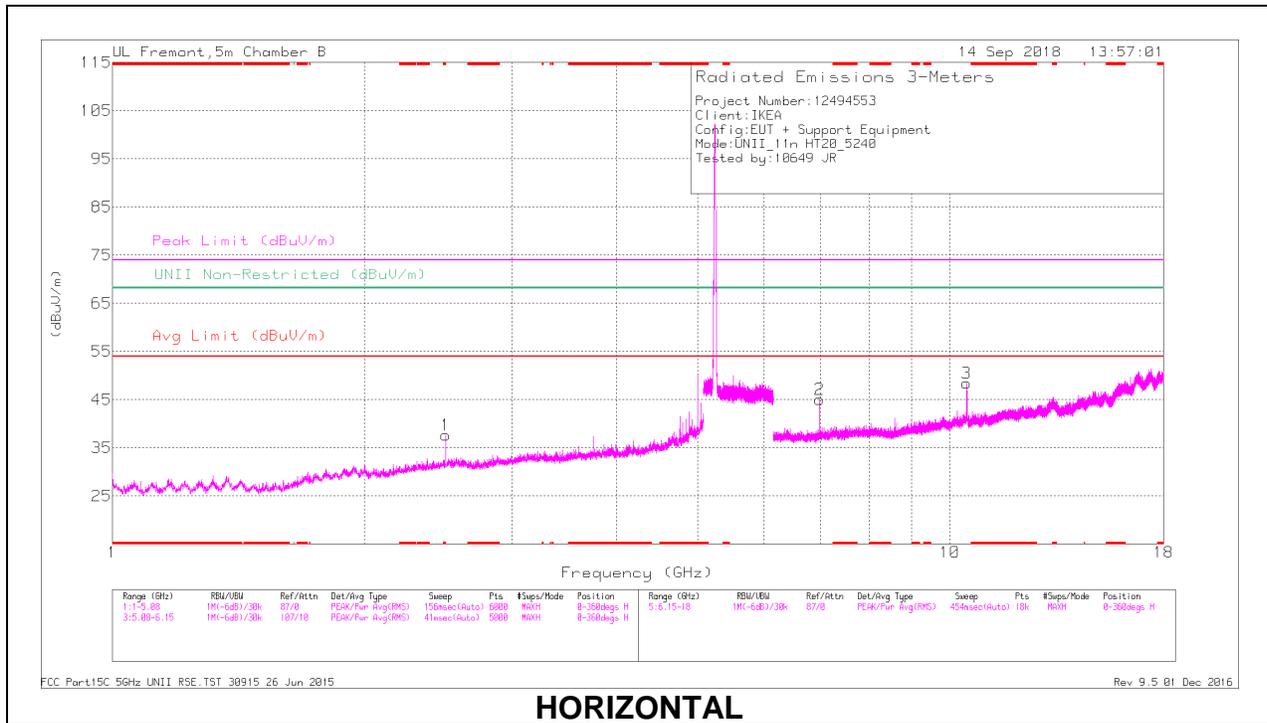
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.5	42.39	PK-U	32.7	-32.1	0	42.99	-	-	-	-	68.2	-25.21	51	201	H
1	* 2.5	44.4	PK-U	32.7	-32.1	0	45	-	-	74	-29	-	-	101	169	V
	* 2.5	39.46	ADR	32.7	-32.1	-1	40.16	54	-13.84	-	-	-	-	101	169	V
3	6.933	43.21	PK-U	35.8	-28.1	0	50.91	-	-	-	-	68.2	-17.29	18	192	H
5	6.933	46.28	PK-U	35.8	-28.1	0	53.98	-	-	-	-	68.2	-14.22	163	134	V
4	10.394	38.66	PK-U	37.9	-22.5	0	54.06	-	-	-	-	68.2	-14.14	211	104	H
6	10.395	38.16	PK-U	37.9	-22.5	0	53.56	-	-	-	-	68.2	-14.64	227	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

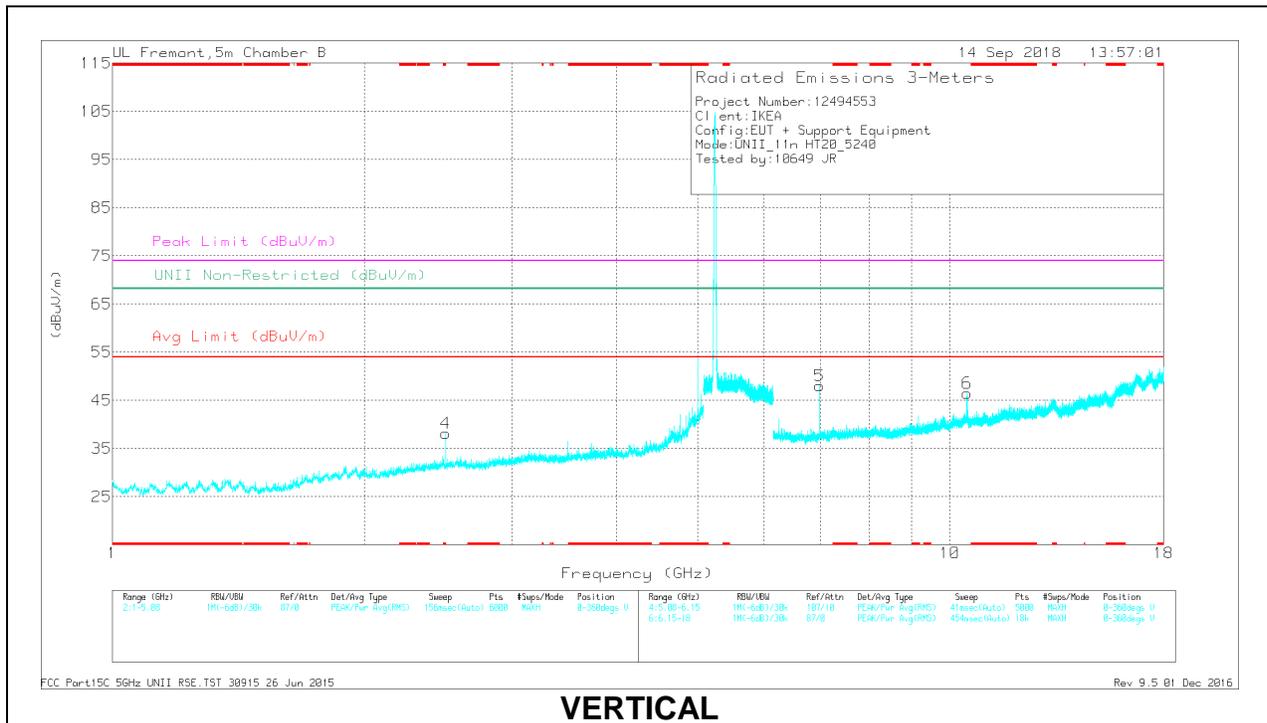
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

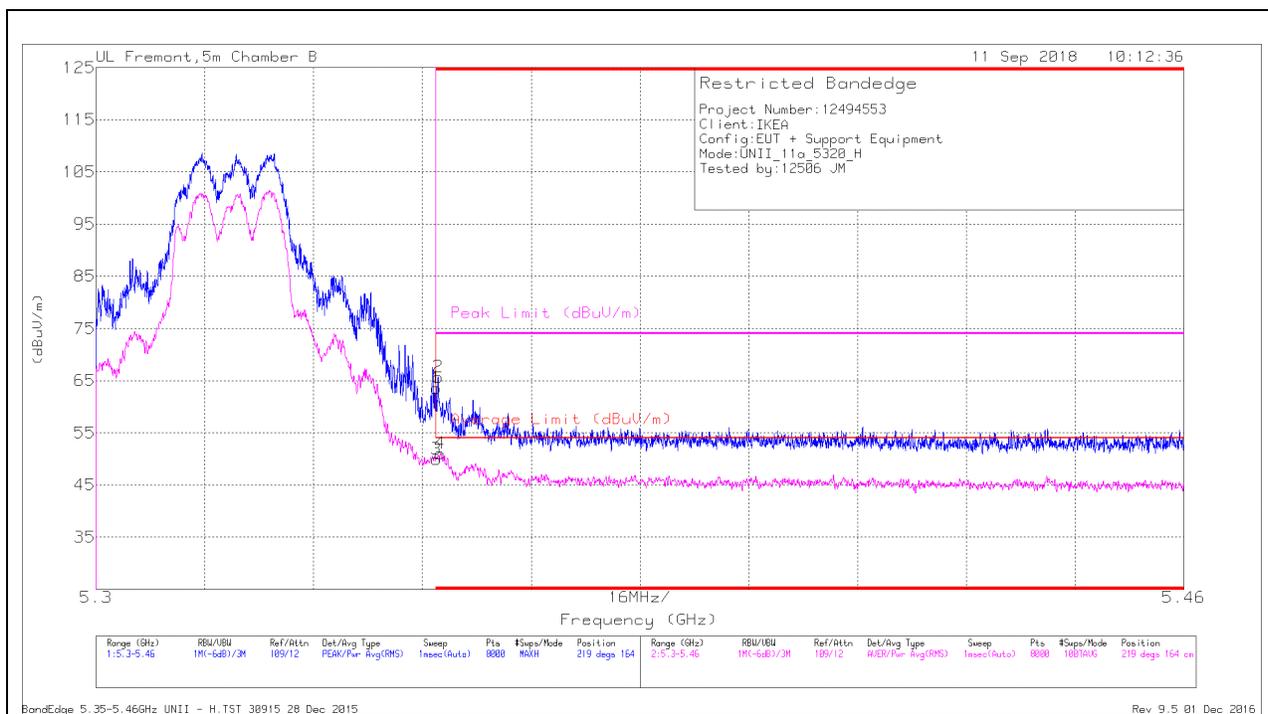
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	2.5	42.17	PK-U	32.7	-32.1	0	42.77	-	-	-	-	68.2	-25.43	51	202	H
4	2.5	44.38	PK-U	32.7	-32.1	0	44.98	-	-	-	-	68.2	-23.22	101	170	V
5	6.987	41.07	PK-U	35.9	-27.4	0	49.57	-	-	-	-	68.2	-18.63	15	202	H
2	6.987	44.04	PK-U	35.9	-27.4	0	52.54	-	-	-	-	68.2	-15.66	159	137	V
3	10.474	39.14	PK-U	37.8	-22.7	0	54.24	-	-	-	-	68.2	-13.96	220	102	H
6	10.488	39.6	PK-U	37.8	-22.9	0	54.5	-	-	-	-	68.2	-13.7	343	249	V

PK-U - U-NII: Maximum Peak

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

BANDEGE (HIGH CHANNEL) HORIZONTAL RESULT



Trace Markers

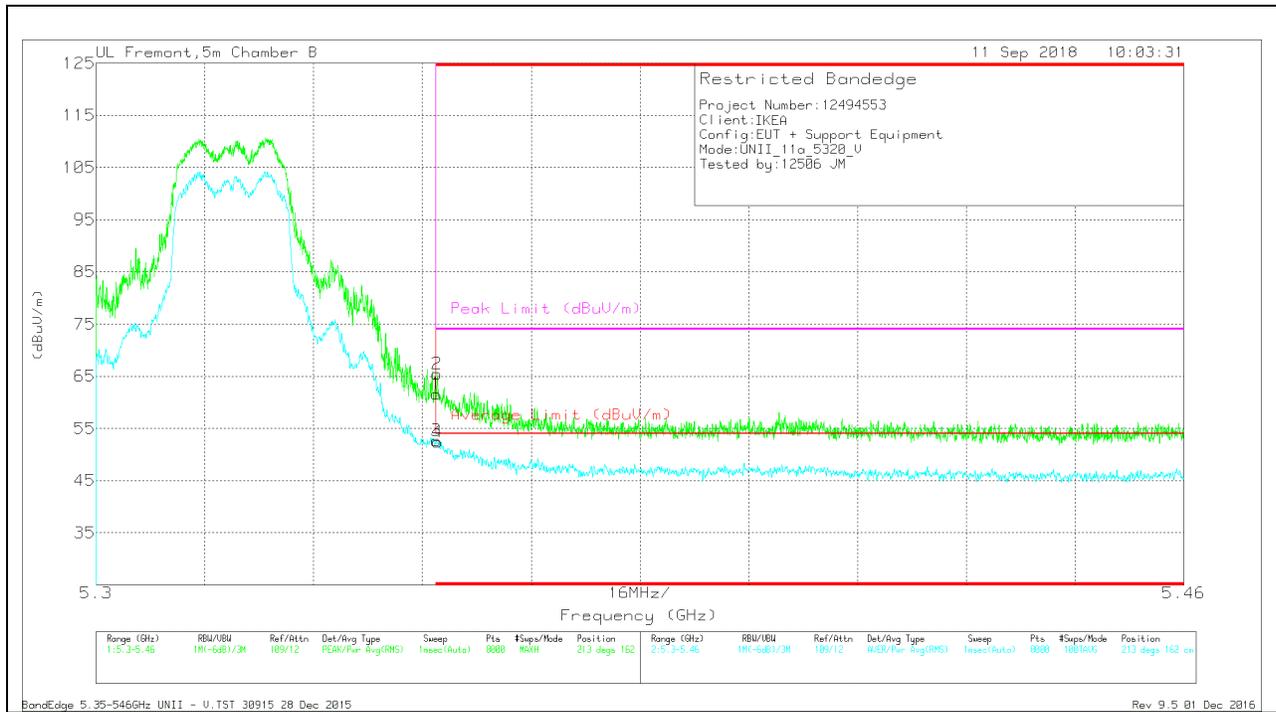
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	46.93	Pk	35	-18.4	0	63.53	-	-	74	-10.47	219	164	H
2	* 5.35	49.03	Pk	35	-18.4	0	65.63	-	-	74	-8.37	219	164	H
3	* 5.35	33.27	RMS	35	-18.4	.1	49.97	54	-4.03	-	-	219	164	H
4	* 5.351	34.24	RMS	35	-18.3	.1	51.04	54	-2.96	-	-	219	164	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



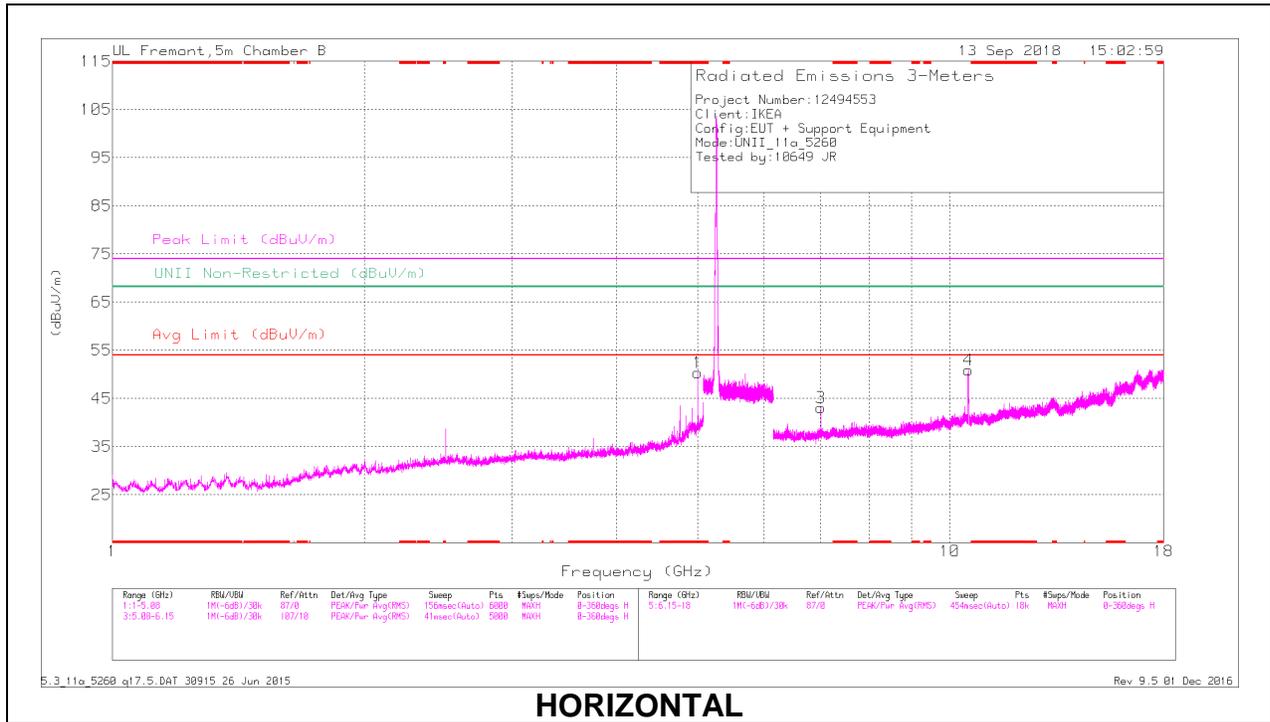
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	45	Pk	35	-18.4	0	61.6	-	-	74	-12.4	213	162	V
2	* 5.35	48.8	Pk	35	-18.4	0	65.4	-	-	74	-8.6	213	162	V
3	* 5.35	35.93	RMS	35	-18.4	.1	52.63	54	-1.37	-	-	213	162	V
4	* 5.35	35.71	RMS	35	-18.4	.1	52.41	54	-1.59	-	-	213	162	V

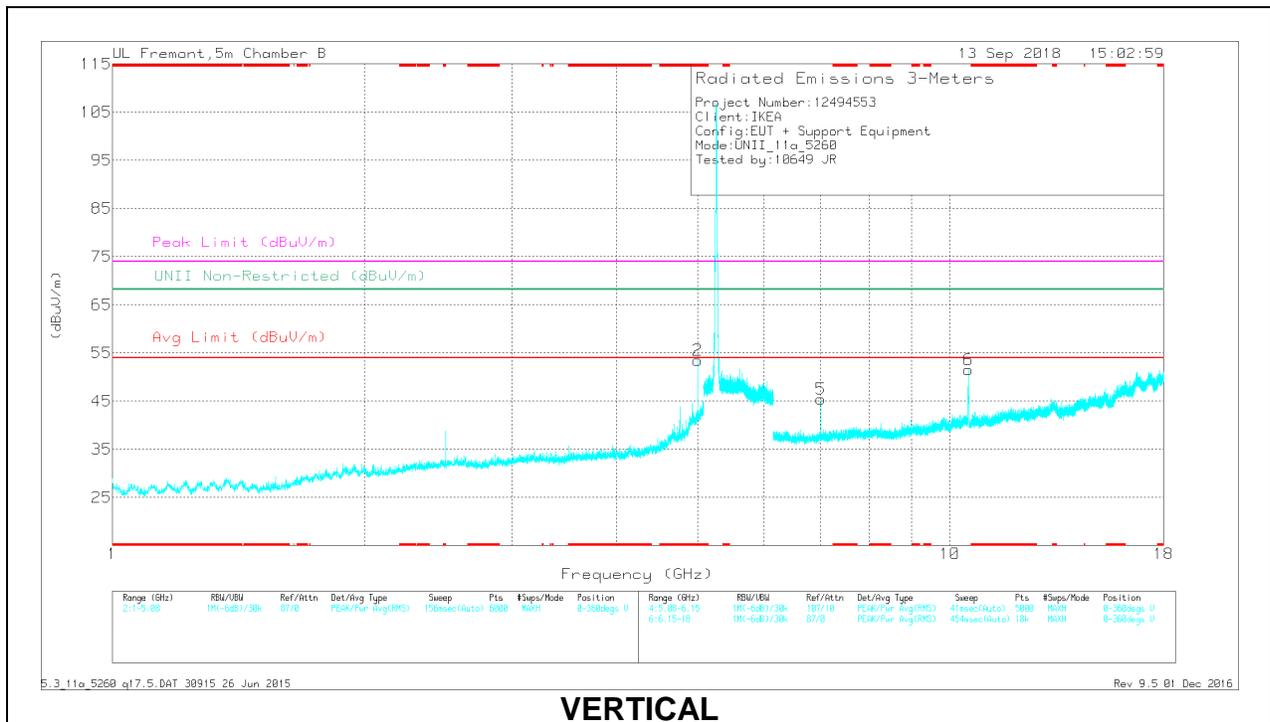
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

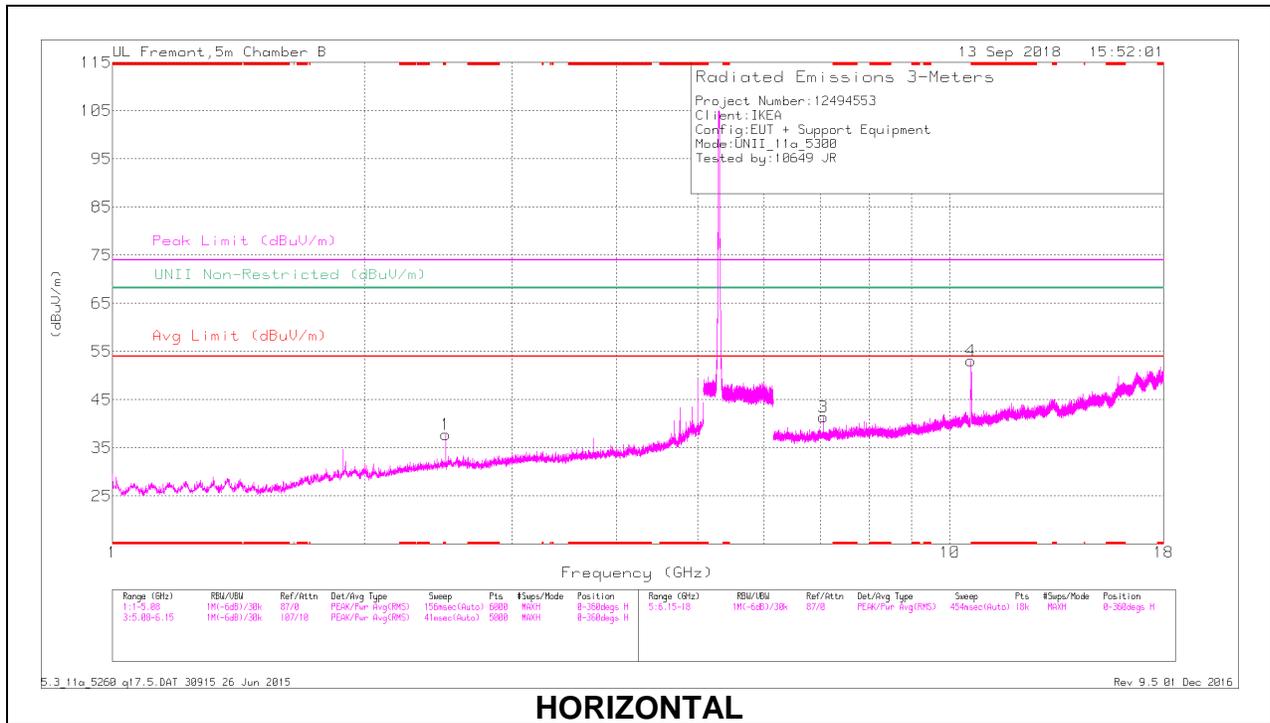
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5	47.18	PK-U	34.6	-27.8	0	53.98	-	-	74	-20.02	-	-	48	205	H
	* 5	41.88	ADR	34.6	-27.8	.1	48.78	54	-5.22	-	-	-	-	48	205	H
2	* 5	50.91	PK-U	34.6	-27.8	0	57.71	-	-	74	-16.29	-	-	244	134	V
	* 5	45.34	ADR	34.6	-27.8	.1	52.24	54	-1.76	-	-	-	-	244	134	V
3	7.013	39.34	PK-U	35.9	-27	0	48.24	-	-	-	-	68.2	-19.96	138	108	H
5	7.013	42.6	PK-U	35.9	-27	0	51.5	-	-	-	-	68.2	-16.7	162	168	V
4	10.518	43.64	PK-U	37.8	-23.4	0	58.04	-	-	-	-	68.2	-10.16	357	198	H
6	10.519	45.49	PK-U	37.8	-23.4	0	59.89	-	-	-	-	68.2	-8.31	231	314	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

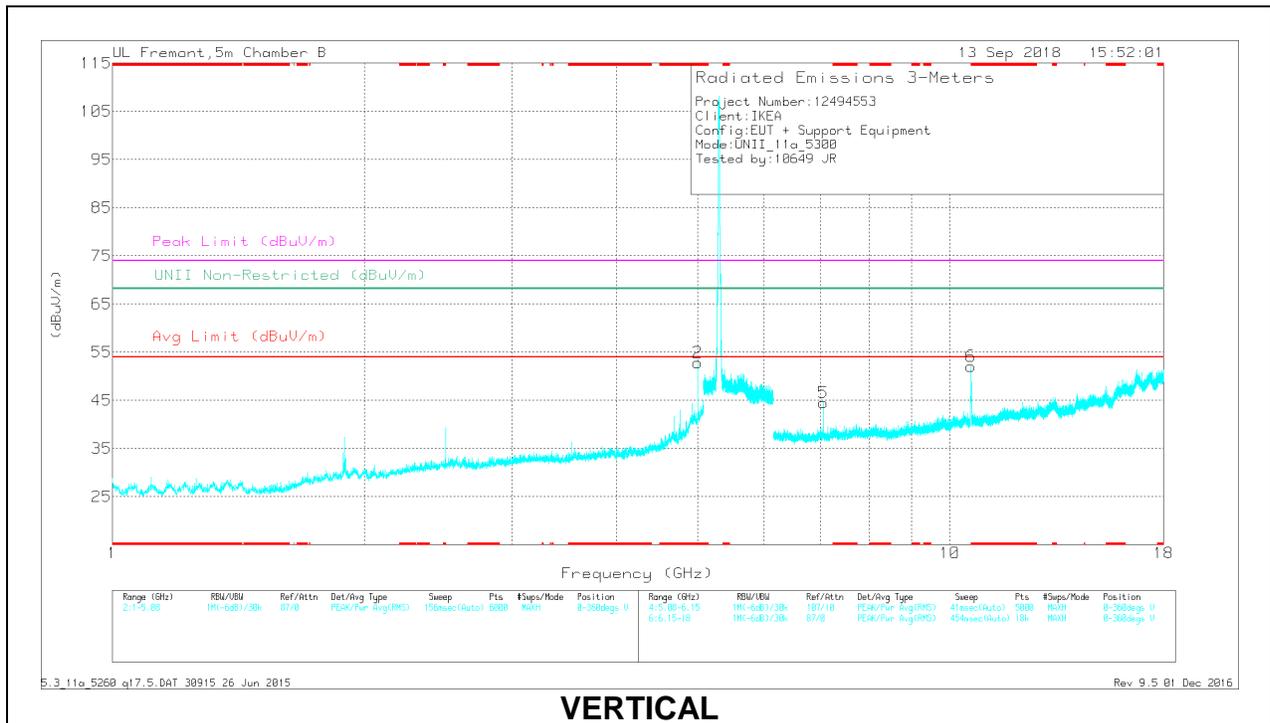
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

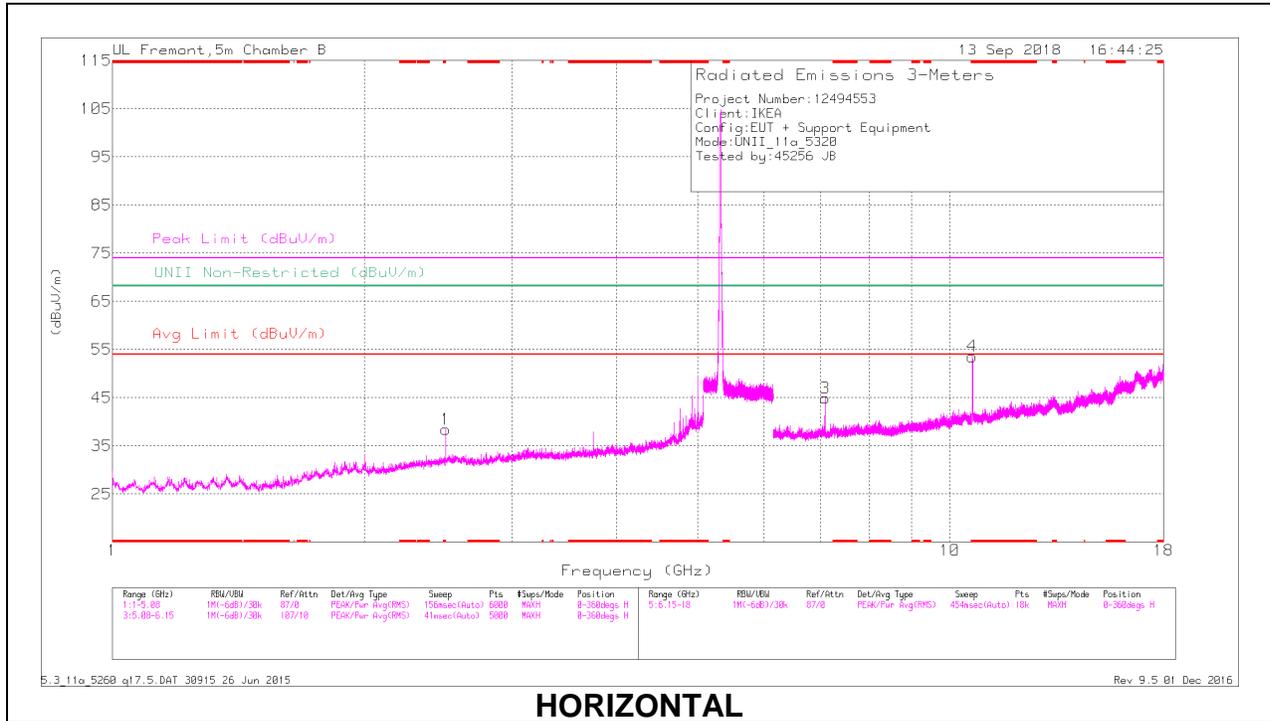
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5	49.96	PK-U	34.6	-27.8	0	56.76	-	-	74	-17.24	-	-	244	124	V
	* 5	44.28	ADR	34.6	-27.8	.1	51.18	54	-2.82	-	-	-	-	244	124	V
6	* 10.602	33.17	PK-U	38.4	-22.7	0	48.87	-	-	74	-25.13	-	-	212	292	V
	* 10.602	20.44	ADR	38.4	-22.7	.1	36.24	54	-17.76	-	-	-	-	212	292	V
1	2.5	43.07	PK-U	32.7	-32.1	0	43.67	-	-	-	-	68.2	-24.53	72	205	H
3	7.067	41.04	PK-U	36	-27.3	0	49.74	-	-	-	-	68.2	-18.46	135	116	H
5	7.067	39.16	PK-U	36	-27.3	0	47.86	-	-	-	-	68.2	-20.34	141	158	V
4	10.598	46.24	PK-U	37.7	-23.4	0	60.54	-	-	-	-	68.2	-7.66	1	207	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

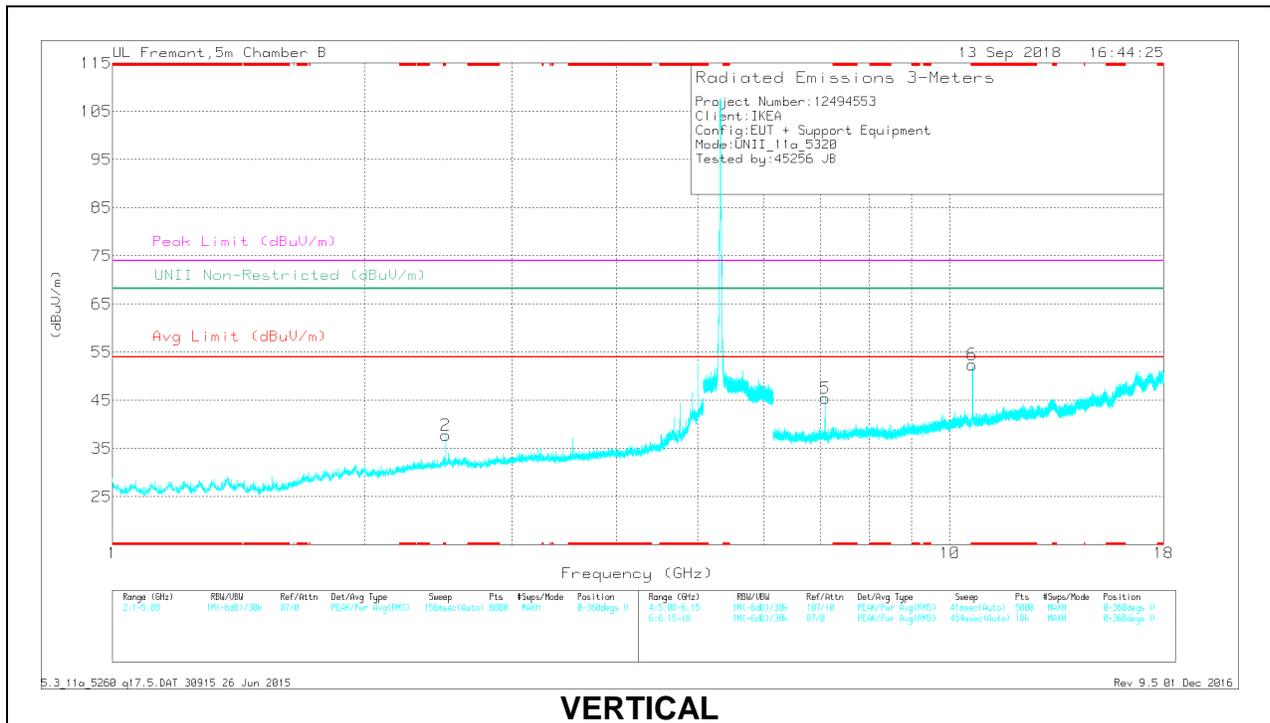
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 2.5	43.34	PK-U	32.7	-32.1	0	43.94	-	-	74	-30.06	-	-	46	202	H
	* 2.5	37.31	ADR	32.7	-32.1	.1	38.01	54	-15.99	-	-	-	-	46	202	H
4	* 10.639	46.07	PK-U	37.8	-23	0	60.87	-	-	74	-13.13	-	-	0	193	H
	* 10.638	33.6	ADR	37.8	-23.1	.1	48.4	54	-5.6	-	-	-	-	0	193	H
6	* 10.642	47.59	PK-U	37.8	-23	0	62.39	-	-	74	-11.61	-	-	209	294	V
	* 10.642	35.05	ADR	37.8	-23	.1	49.95	54	-4.05	-	-	-	-	209	294	V
2	2.5	44.64	PK-U	32.7	-32.1	0	45.24	-	-	-	-	68.2	-22.96	104	180	V
3	7.093	41.66	PK-U	36	-28	0	49.66	-	-	-	-	68.2	-18.54	51	111	H
5	7.093	42.26	PK-U	36	-28	0	50.26	-	-	-	-	68.2	-17.94	152	297	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

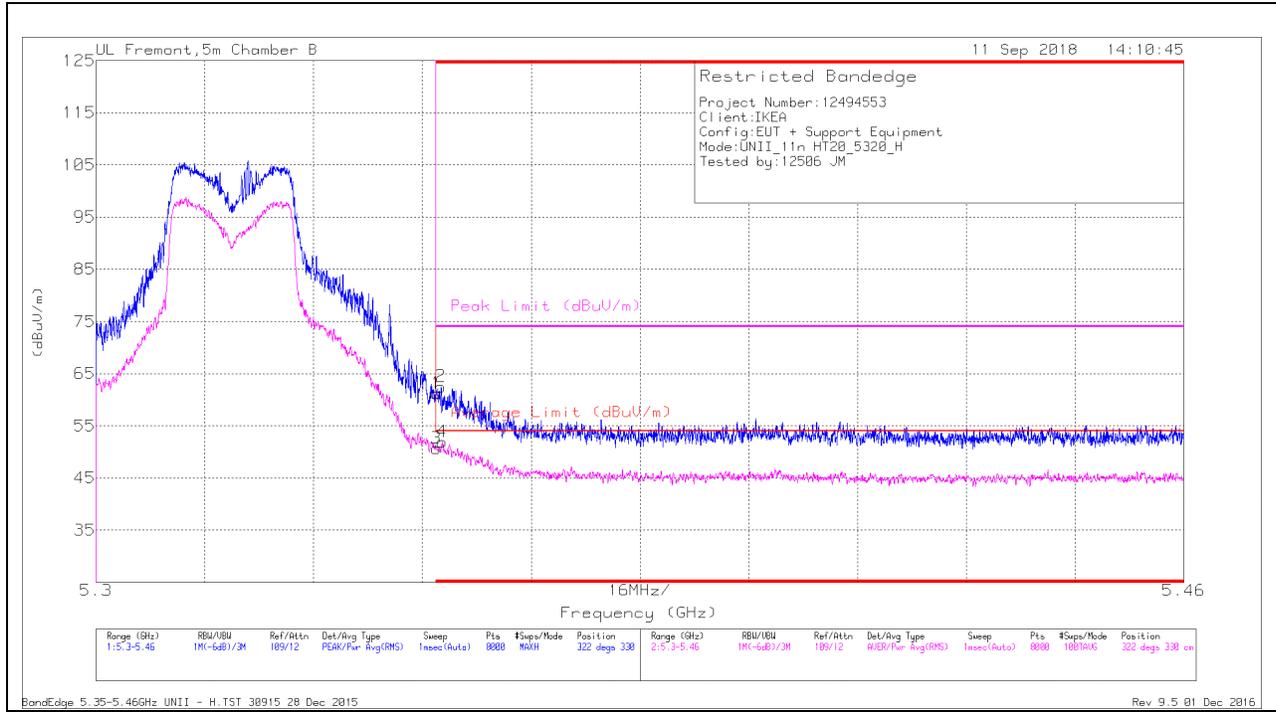
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEGE (HIGH CHANNEL)

HORIZONTAL RESULT



Trace Markers

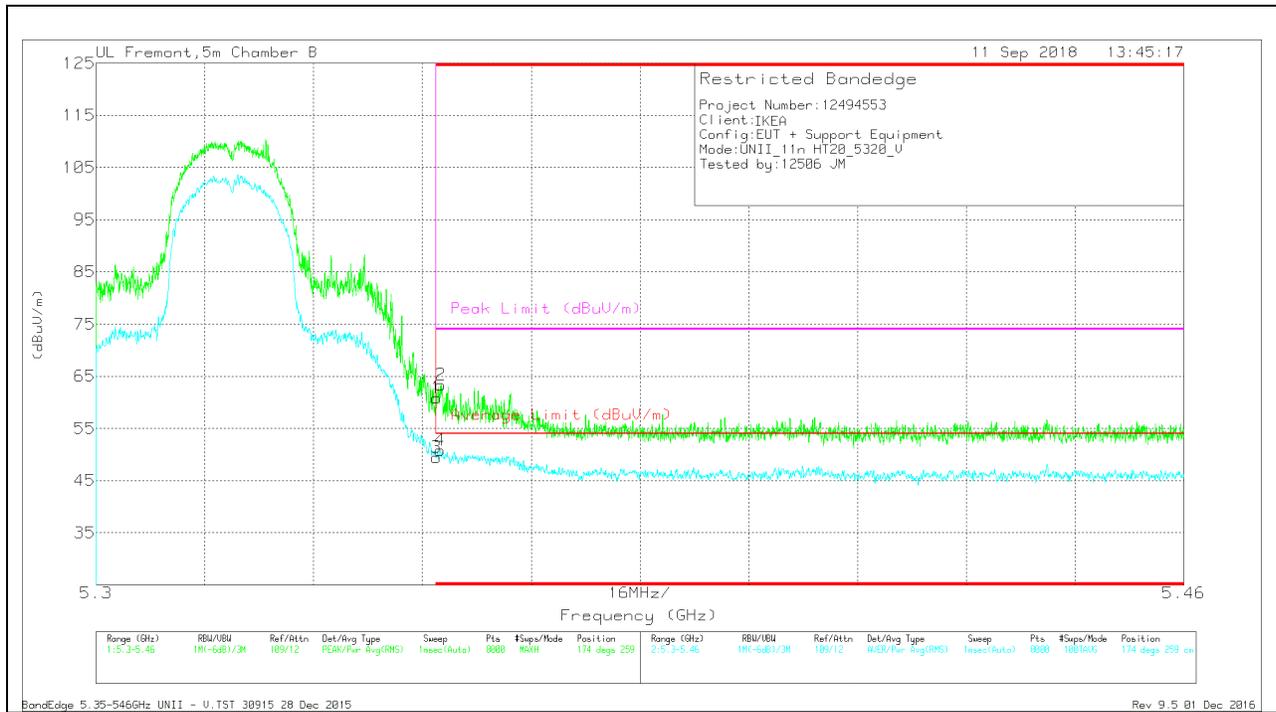
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.67	Pk	35	-18.4	0	61.27	-	-	74	-12.73	322	330	H
2	* 5.351	45.82	Pk	35	-18.3	0	62.52	-	-	74	-11.48	322	330	H
3	* 5.35	33.91	RMS	35	-18.4	.1	50.61	54	-3.39	-	-	322	330	H
4	* 5.351	35.09	RMS	35	-18.3	.1	51.89	54	-2.11	-	-	322	330	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



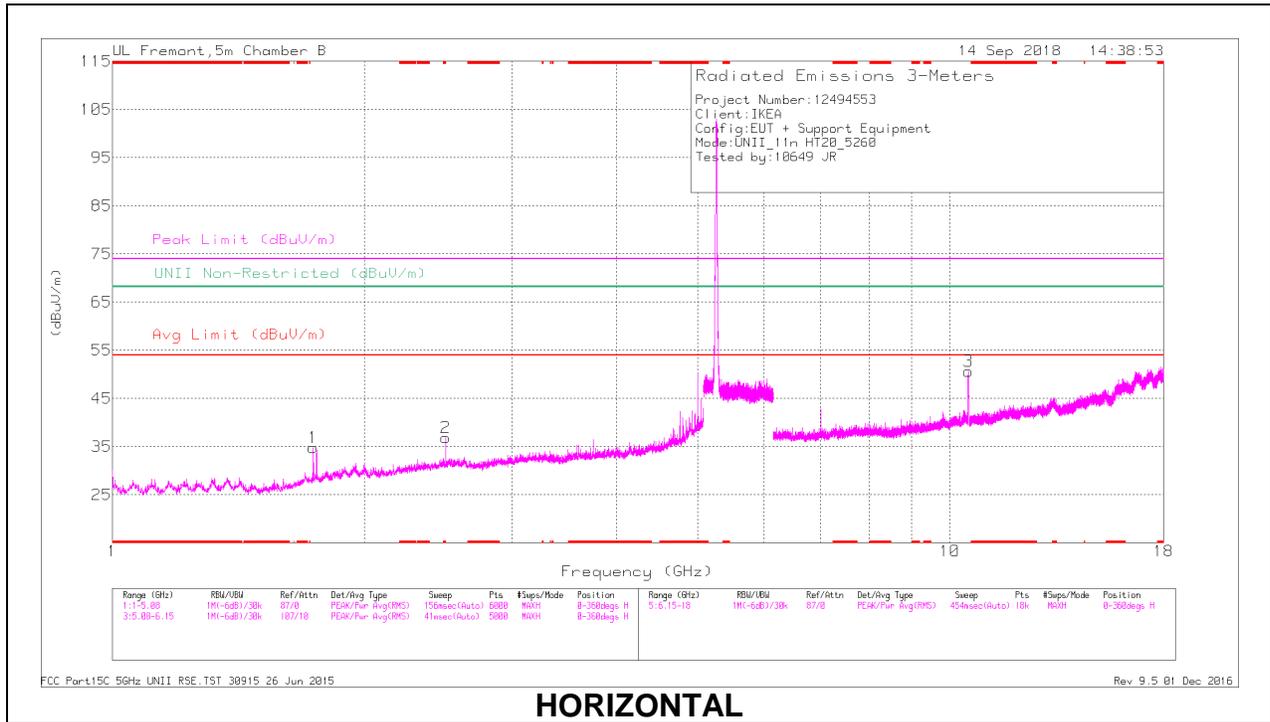
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	44.21	Pk	35	-18.4	0	60.81	-	-	74	-13.19	174	259	V
2	* 5.351	46.61	Pk	35	-18.3	0	63.31	-	-	74	-10.69	174	259	V
3	* 5.35	32.72	RMS	35	-18.4	.1	49.42	54	-4.58	-	-	174	259	V
4	* 5.351	34.02	RMS	35	-18.3	.1	50.82	54	-3.18	-	-	174	259	V

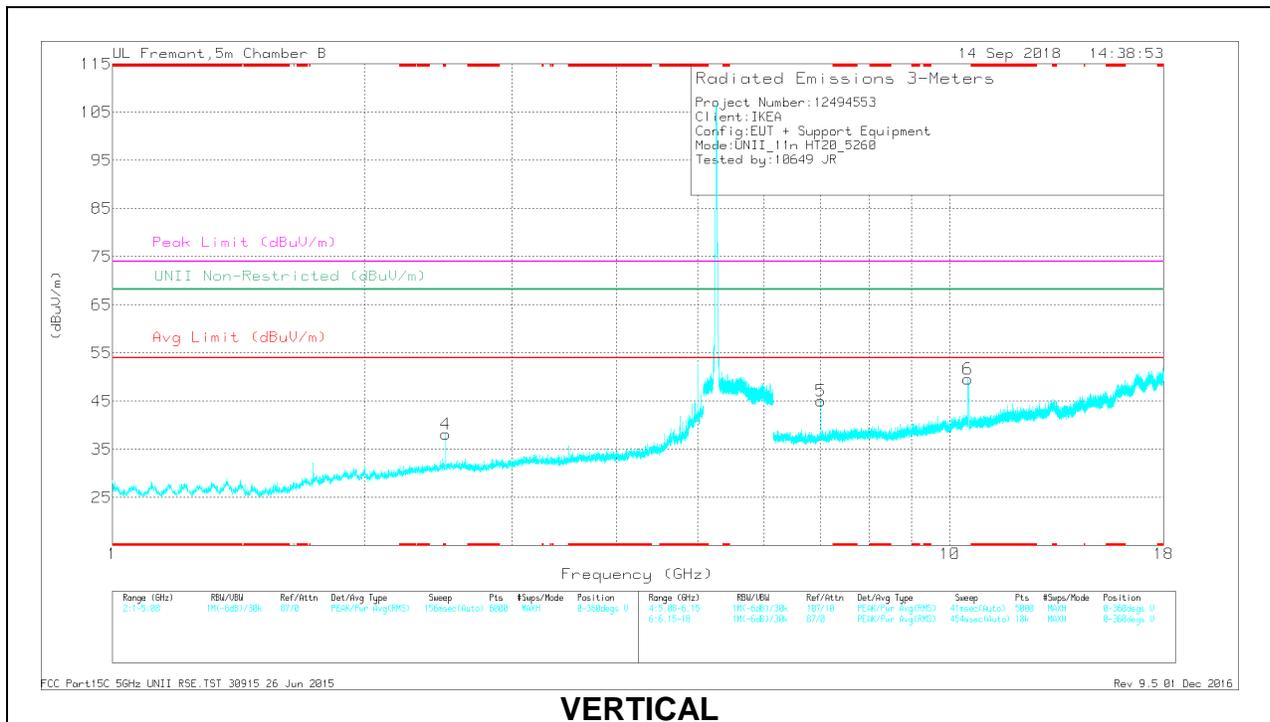
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

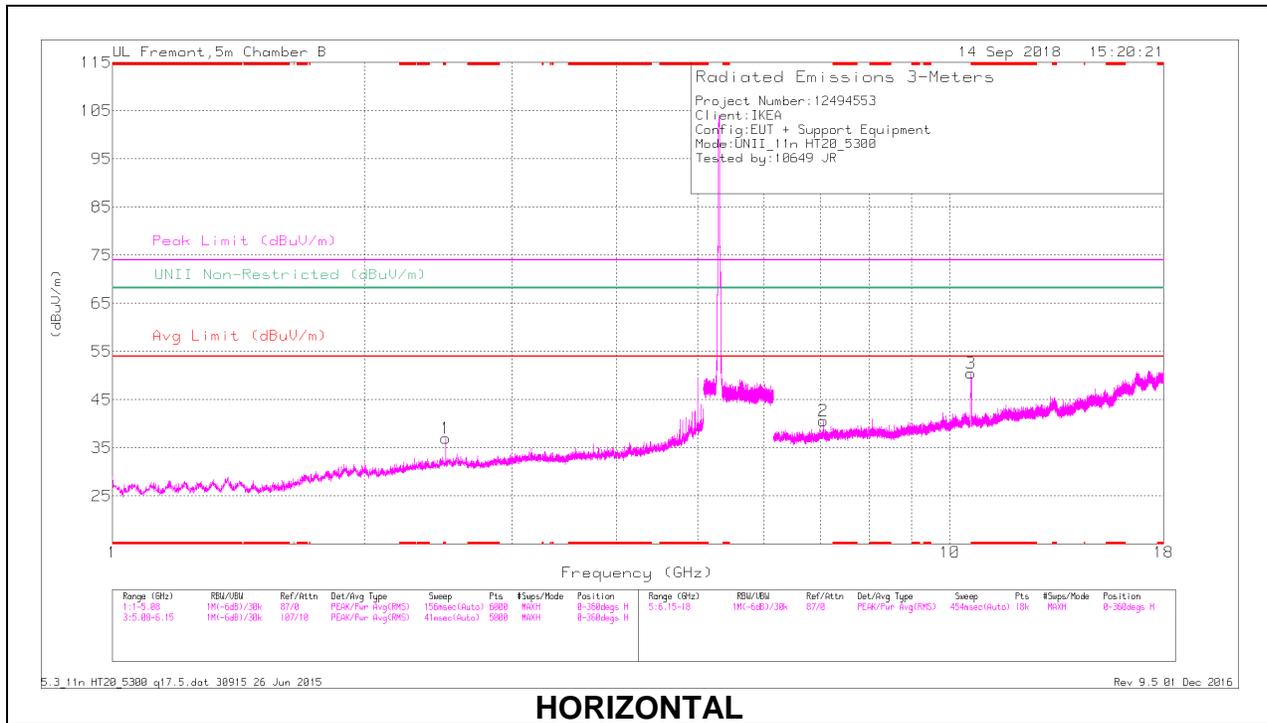
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.5	43.8	PK-U	32.7	-32.1	0	44.4	-	-	74	-29.6	-	-	100	173	V
	* 2.5	38.82	ADR	32.7	-32.1	.1	39.52	54	-14.48	-	-	-	-	100	173	V
1	1.737	39.64	PK-U	30	-33.3	0	36.34	-	-	-	-	68.2	-31.86	221	348	H
2	2.5	41.78	PK-U	32.7	-32.1	0	42.38	-	-	-	-	68.2	-25.82	139	201	H
5	7.013	41.88	PK-U	35.9	-27	0	50.78	-	-	-	-	68.2	-17.42	160	173	V
6	10.518	34.26	PK-U	37.8	-23.4	0	48.66	-	-	-	-	68.2	-19.54	100	173	H
3	10.528	42.97	PK-U	37.8	-23.5	0	57.27	-	-	-	-	68.2	-10.93	231	319	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

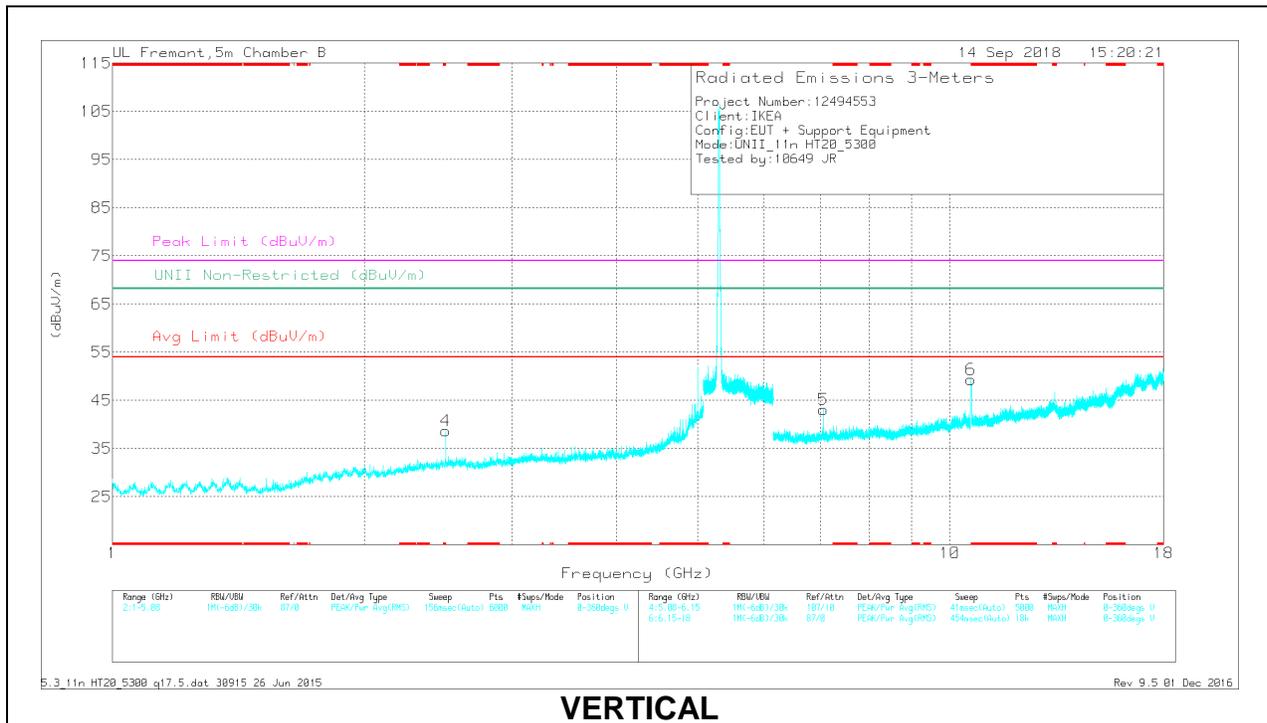
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

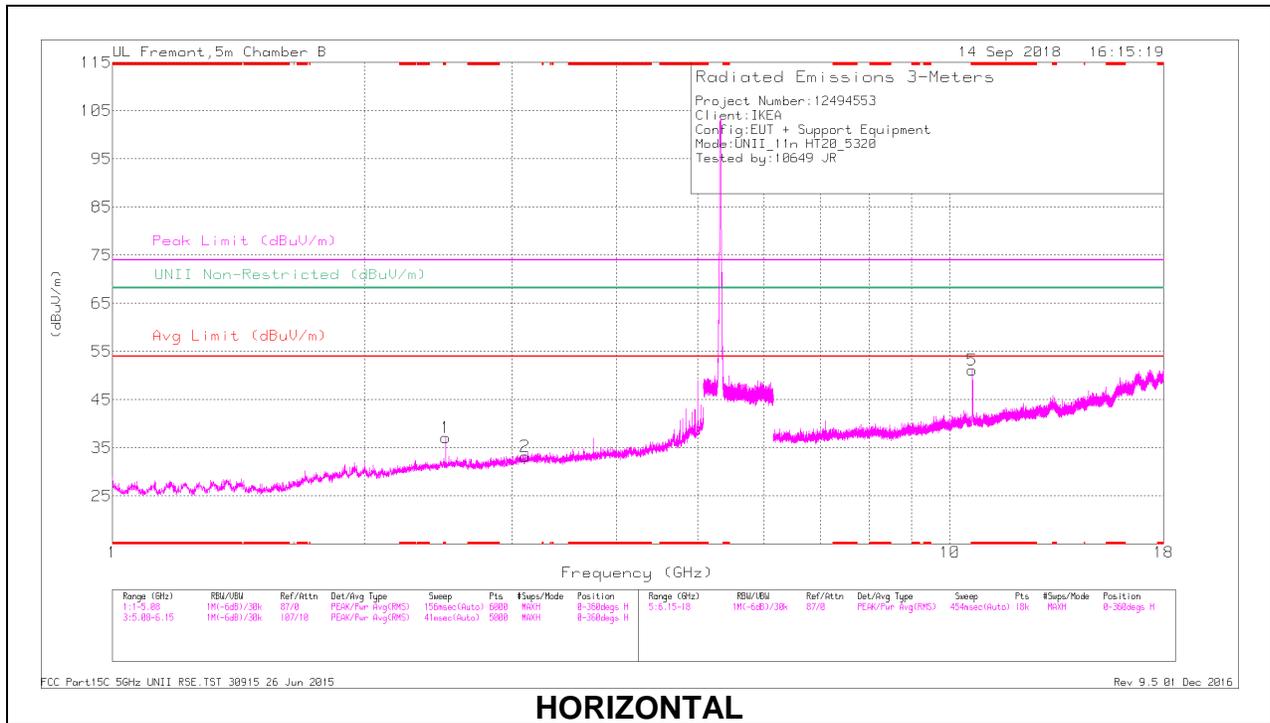
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.5	43.22	PK-U	32.7	-32.1	0	43.82	-	-	74	-30.18	-	-	72	174	H
	* 2.5	37.44	ADR	32.7	-32.1	.1	38.14	54	-15.86	-	-	-	-	72	174	H
4	* 2.5	43.61	PK-U	32.7	-32.1	0	44.21	-	-	74	-29.79	-	-	98	173	V
	* 2.5	38.76	ADR	32.7	-32.1	.1	39.46	54	-14.54	-	-	-	-	98	173	V
2	7.066	39.6	PK-U	36	-27.4	0	48.2	-	-	-	-	68.2	-20	135	290	V
5	7.067	38.84	PK-U	36	-27.3	0	47.54	-	-	-	-	68.2	-20.66	138	106	H
6	10.592	44.69	PK-U	37.7	-23.5	0	58.89	-	-	-	-	68.2	-9.31	187	238	V
3	10.593	43.31	PK-U	37.7	-23.5	0	57.51	-	-	-	-	68.2	-10.69	360	198	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

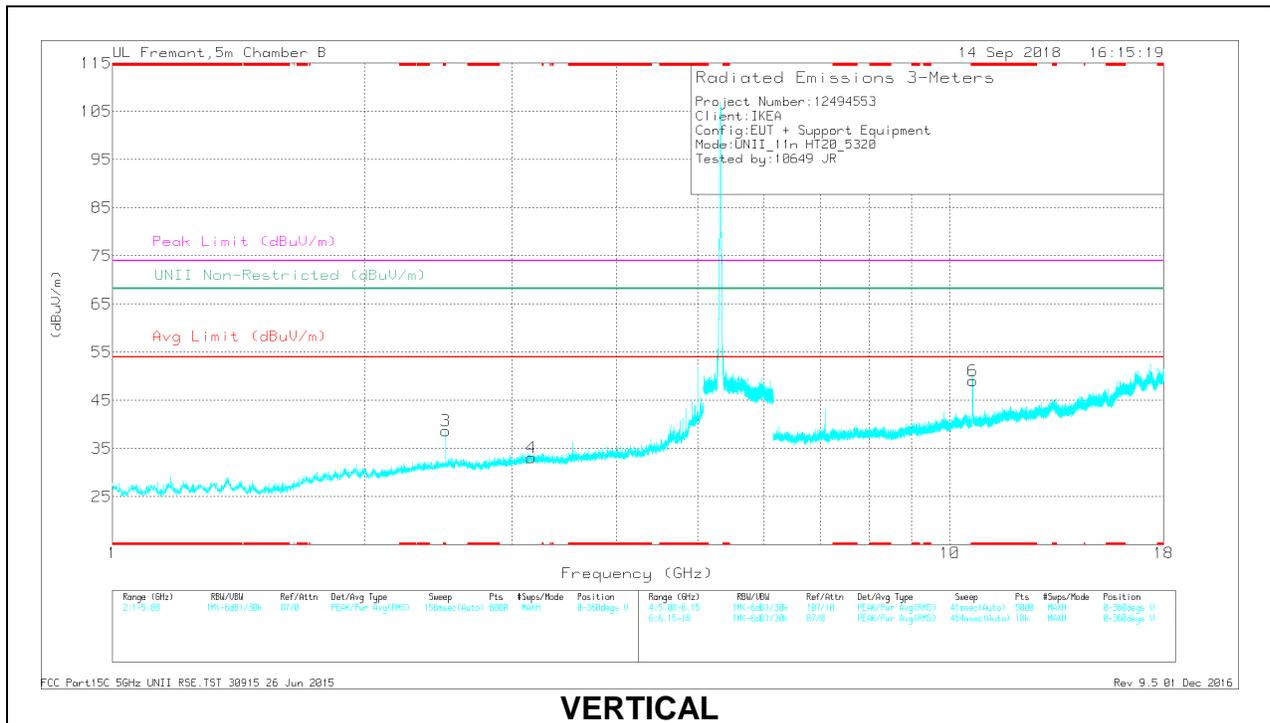
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 2.5	43.37	PK-U	32.7	-32.1	0	43.97	-	-	74	-30.03	-	-	71	176	H
	* 2.5	37.65	ADR	32.7	-32.1	.1	38.35	54	-15.65	-	-	-	-	71	176	H
3	* 2.5	44.75	PK-U	32.7	-32.1	0	45.35	-	-	74	-28.65	-	-	100	171	V
	* 2.5	39.78	ADR	32.7	-32.1	.1	40.48	54	-13.52	-	-	-	-	100	171	V
5	* 10.632	42.6	PK-U	37.8	-23	0	57.4	-	-	74	-16.6	-	-	1	215	H
	* 10.633	29.69	ADR	37.8	-23	.1	44.59	54	-9.41	-	-	-	-	1	215	H
6	* 10.646	45.58	PK-U	37.8	-23	0	60.38	-	-	74	-13.62	-	-	216	286	V
	* 10.646	32.91	ADR	37.8	-23	.1	47.81	54	-6.19	-	-	-	-	216	286	V
2	3.106	39.23	PK-U	33.3	-31.6	0	40.93	-	-	-	-	68.2	-27.27	192	244	H
4	3.165	38.74	PK-U	33.1	-31.1	0	40.74	-	-	-	-	68.2	-27.46	131	274	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

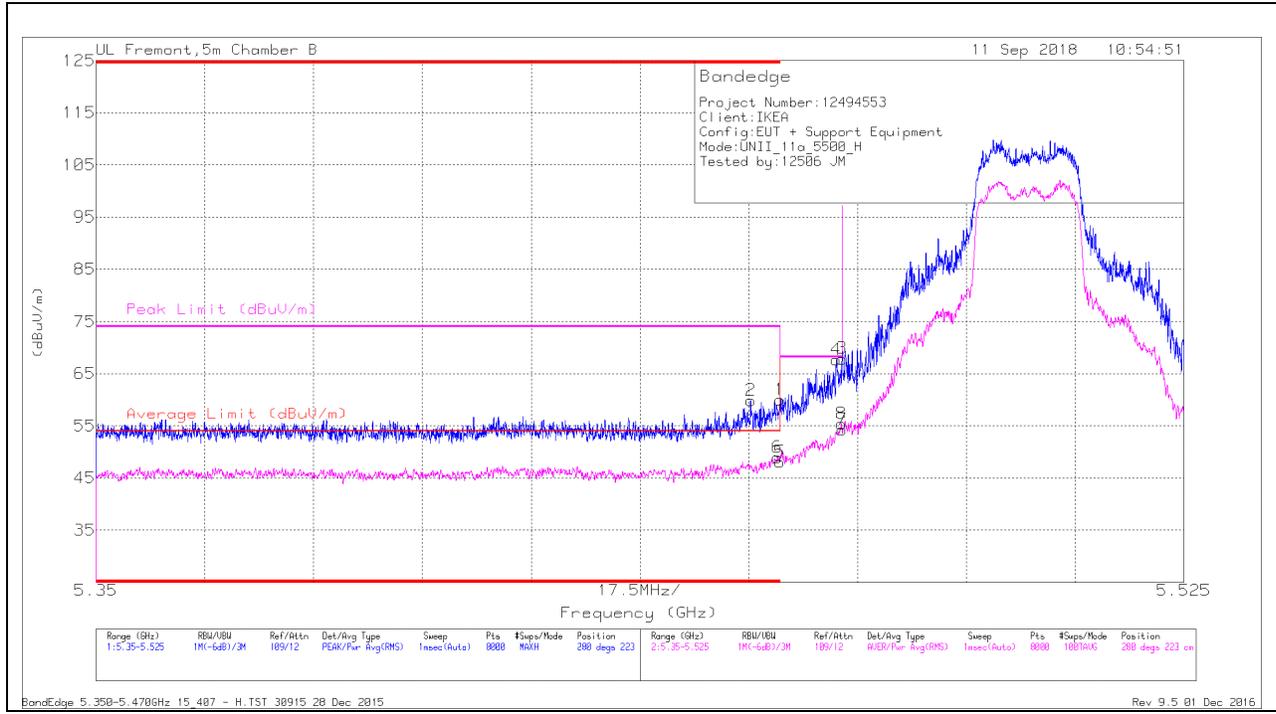
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

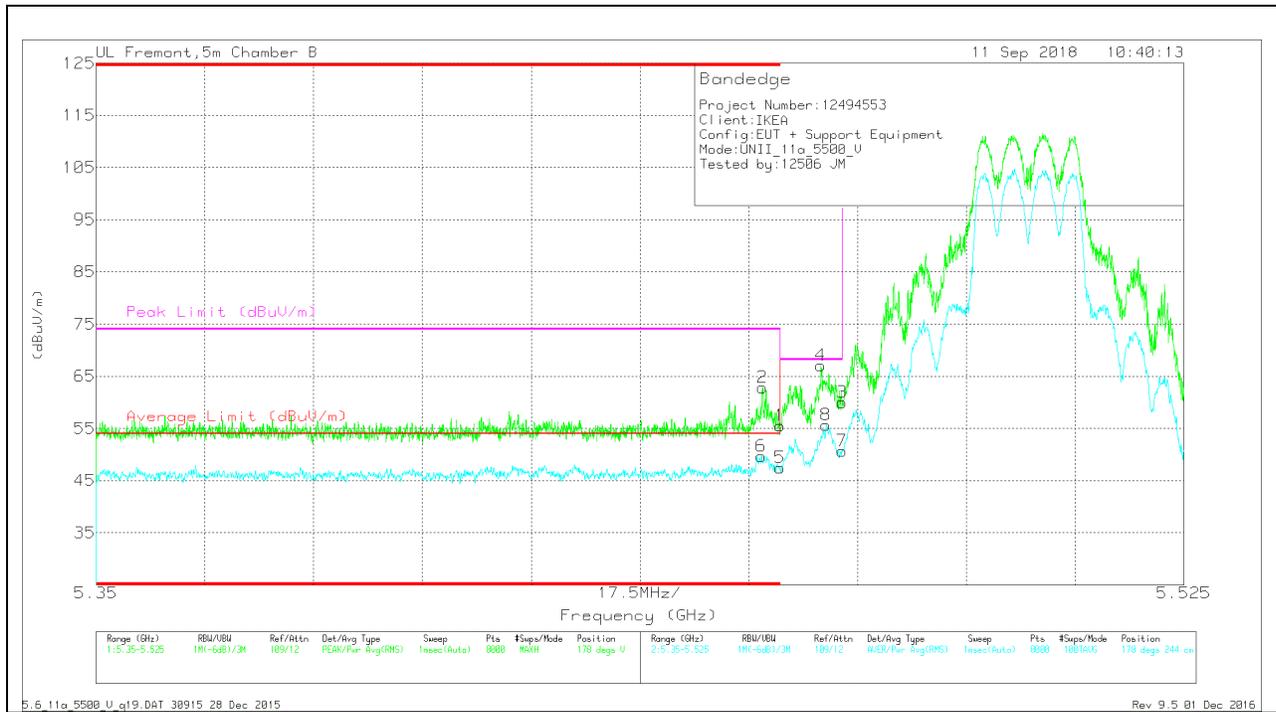
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	43.33	Pk	35.3	-18.7	0	59.93	-	-	74	-14.07	280	223	H
2	* 5.455	43.34	PK	35.3	-18.8	0	59.84	-	-	74	-14.16	280	223	H
5	* 5.46	31.5	RMS	35.3	-18.7	.1	48.2	54	-5.8	-	-	280	223	H
6	* 5.46	32.2	RMS	35.3	-18.6	.1	49	54	-5	-	-	280	223	H
4	5.469	51.09	Pk	35.3	-18.7	0	67.69	-	-	68.2	-51	280	223	H
3	5.47	51.16	Pk	35.3	-18.6	0	67.86	-	-	68.2	-34	280	223	H
7	5.47	37.62	RMS	35.3	-18.6	.1	54.42	-	-	-	-	280	223	H
8	5.47	38.72	RMS	35.3	-18.6	.1	55.52	-	-	-	-	280	223	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.46	38.85	Pk	35.3	-18.7	0	55.45	-	-	74	-18.55	178	244	V
2	* 5.457	46	Pk	35.3	-18.5	0	62.8	-	-	74	-11.2	178	244	V
5	* 5.46	30.79	RMS	35.3	-18.7	.1	47.49	54	-6.51	-	-	178	244	V
6	* 5.457	33	RMS	35.3	-18.6	.1	49.8	54	-4.2	-	-	178	244	V
4	5.467	50.04	Pk	35.3	-18.3	0	67.04	-	-	68.2	-1.16	178	244	V
8	5.467	38.67	RMS	35.3	-18.3	.1	55.77	-	-	-	-	178	244	V
3	5.47	43.25	Pk	35.3	-18.6	0	59.95	-	-	68.2	-8.25	178	244	V
7	5.47	33.97	RMS	35.3	-18.6	.1	50.77	-	-	-	-	178	244	V

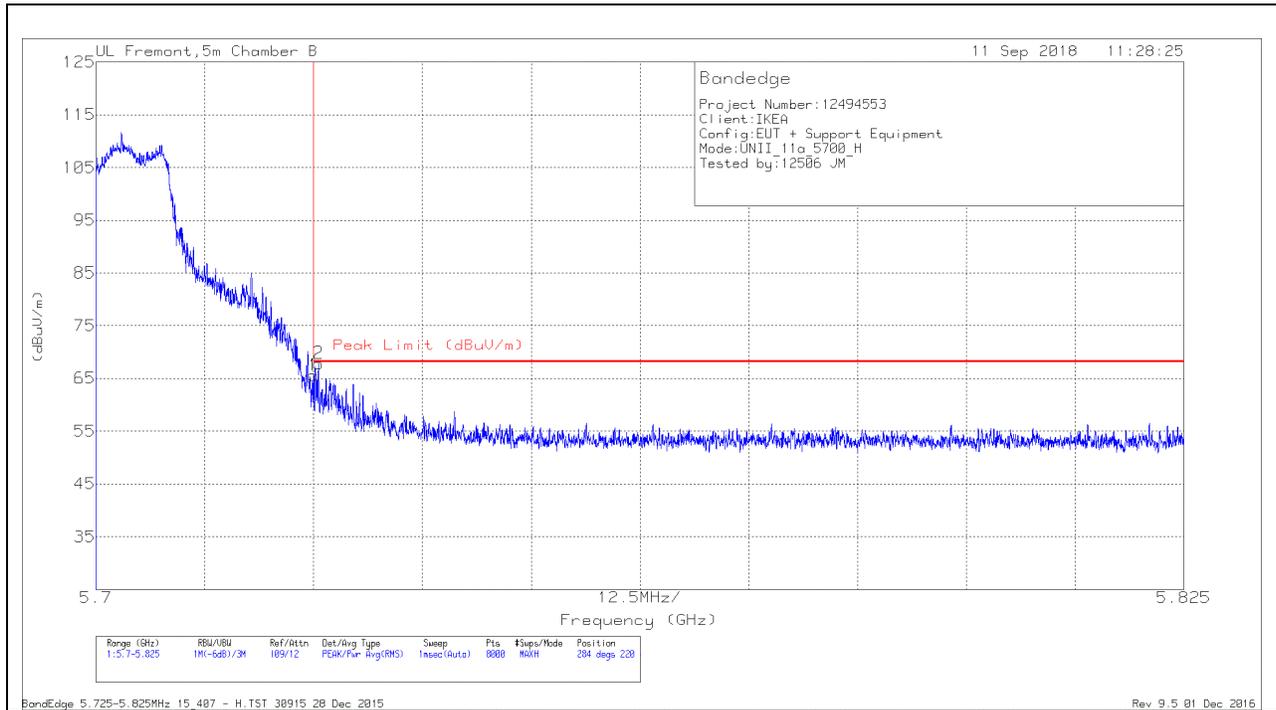
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

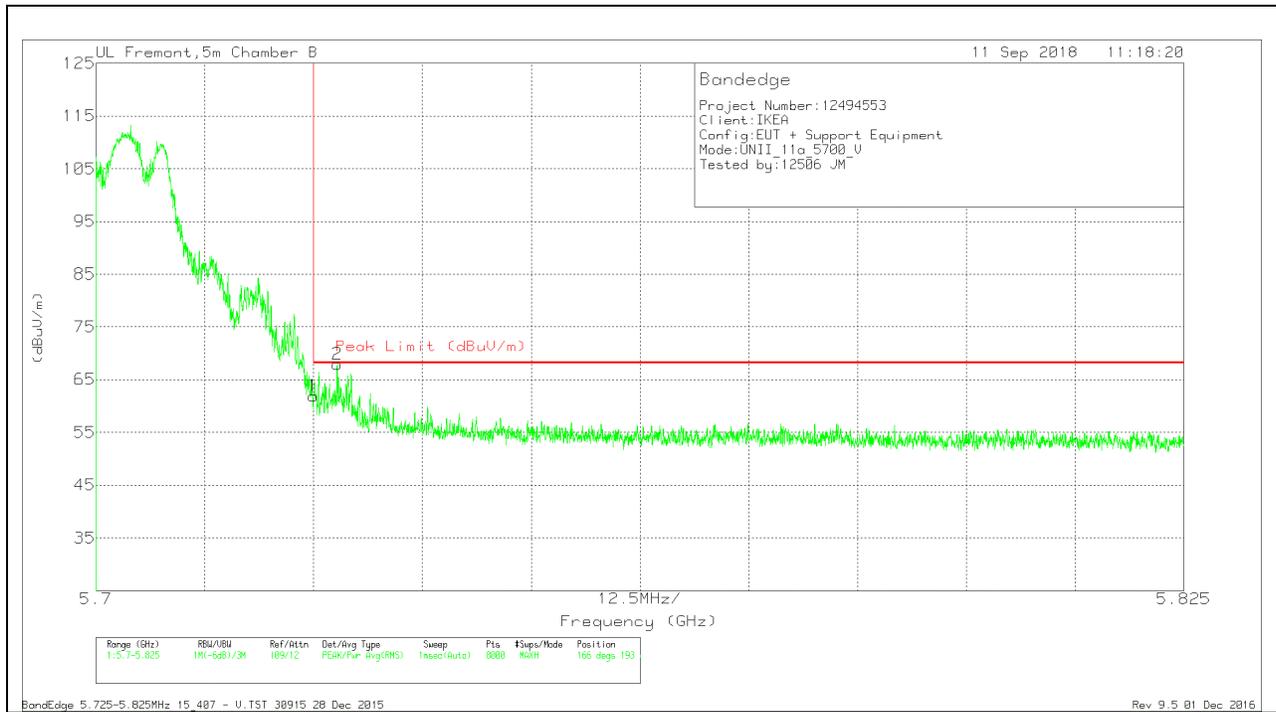


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	49.52	Pk	35.5	-19.4	65.62	68.2	-2.58	284	220	H
2	5.726	51.66	Pk	35.5	-19.3	67.86	68.2	-3.4	284	220	H

Pk - Peak detector

VERTICAL RESULT



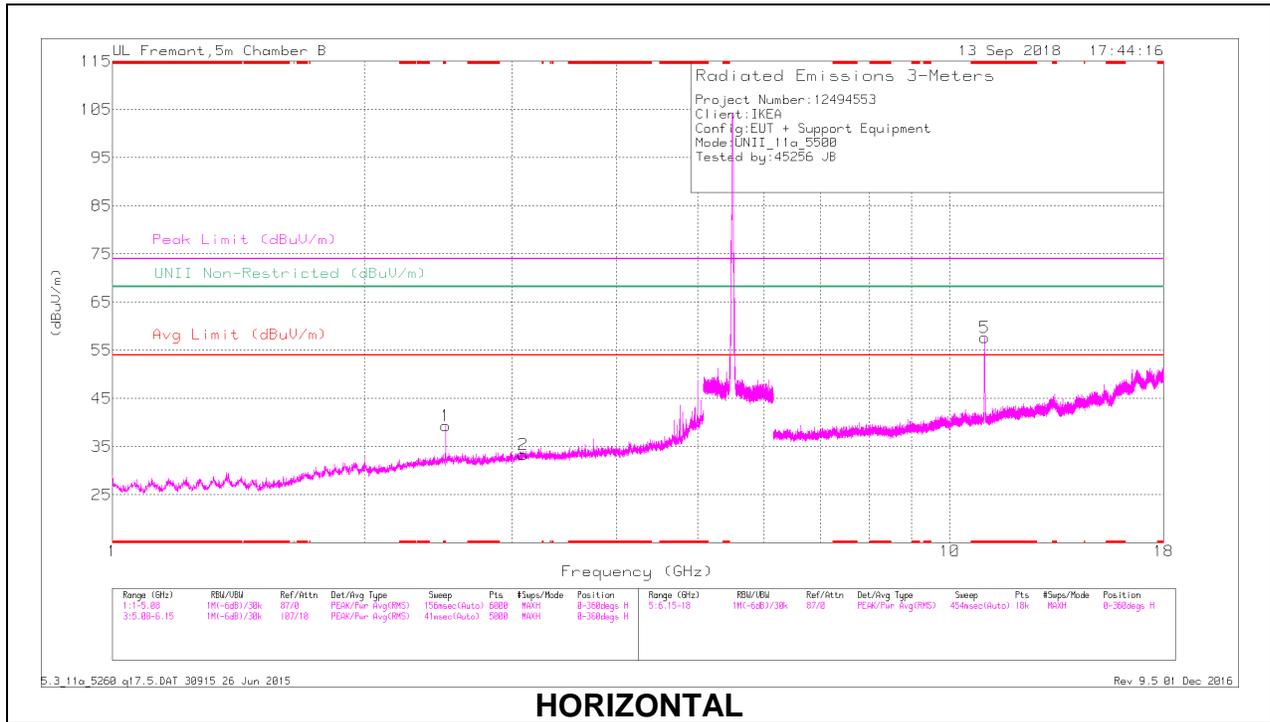
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.85	Pk	35.5	-19.4	61.95	68.2	-6.25	166	193	V
2	5.728	51.32	Pk	35.5	-18.9	67.92	68.2	-.28	166	193	V

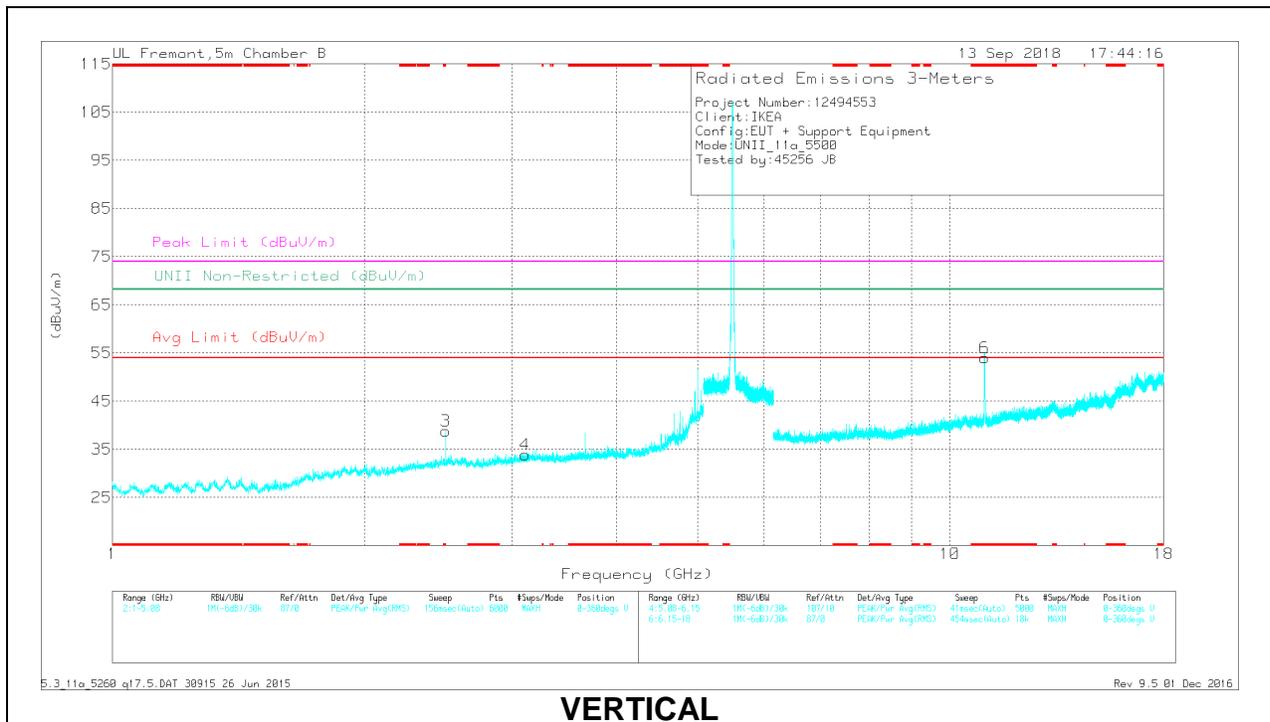
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

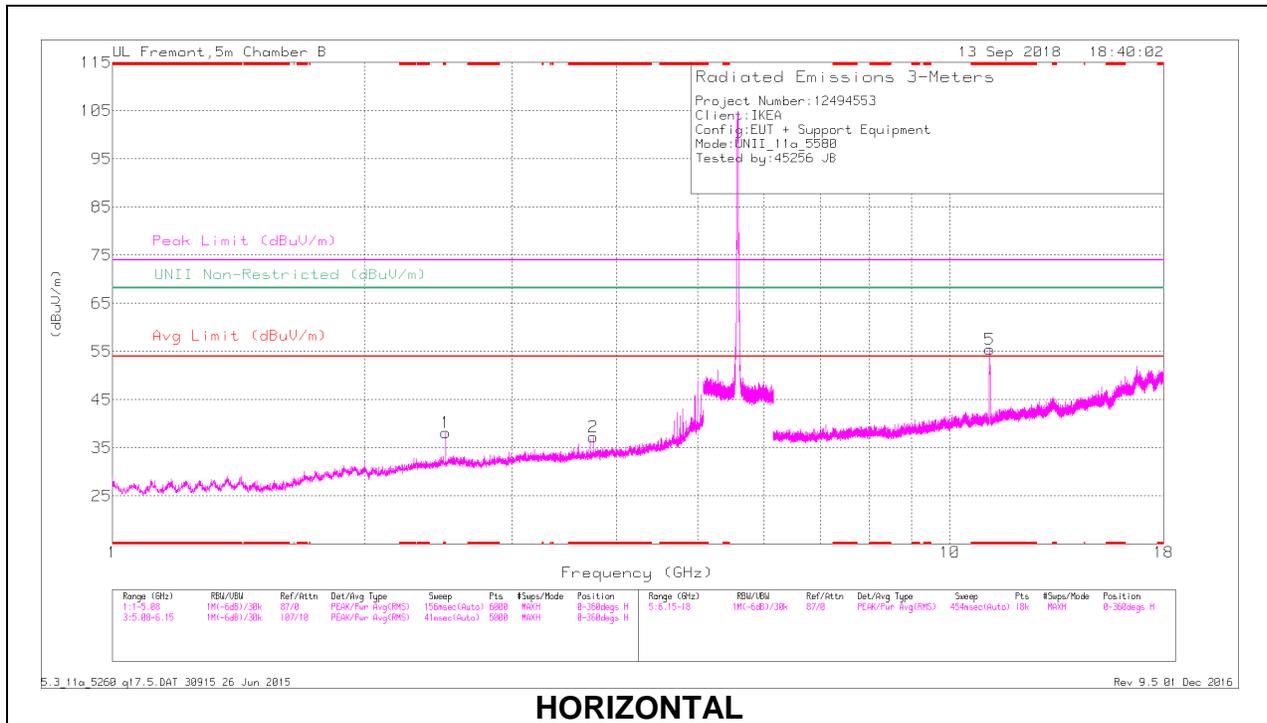
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.5	43.5	PK-U	32.7	-32.1	0	44.1	-	-	74	-29.9	-	-	72	205	H
	* 2.5	37.93	ADR	32.7	-32.1	.1	38.63	54	-15.37	-	-	-	-	72	205	H
3	* 2.5	44.67	PK-U	32.7	-32.1	0	45.27	-	-	74	-28.73	-	-	106	172	V
	* 2.5	40	ADR	32.7	-32.1	.1	40.7	54	-13.3	-	-	-	-	106	172	V
5	* 11.002	49.15	PK-U	37.9	-22	0	65.05	-	-	74	-8.95	-	-	93	107	H
	* 11.002	37.03	ADR	37.9	-22	.1	53.03	54	-9.7	-	-	-	-	93	107	H
6	* 11.003	46.71	PK-U	37.9	-22	0	62.61	-	-	74	-11.39	-	-	201	203	V
	* 11.003	35.08	ADR	37.9	-22	.1	51.08	54	-2.92	-	-	-	-	201	203	V
2	3.094	39.4	PK-U	33.3	-32	0	40.7	-	-	-	-	68.2	-27.5	62	231	H
4	3.109	38.88	PK-U	33.3	-31.6	0	40.58	-	-	-	-	68.2	-27.62	235	257	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

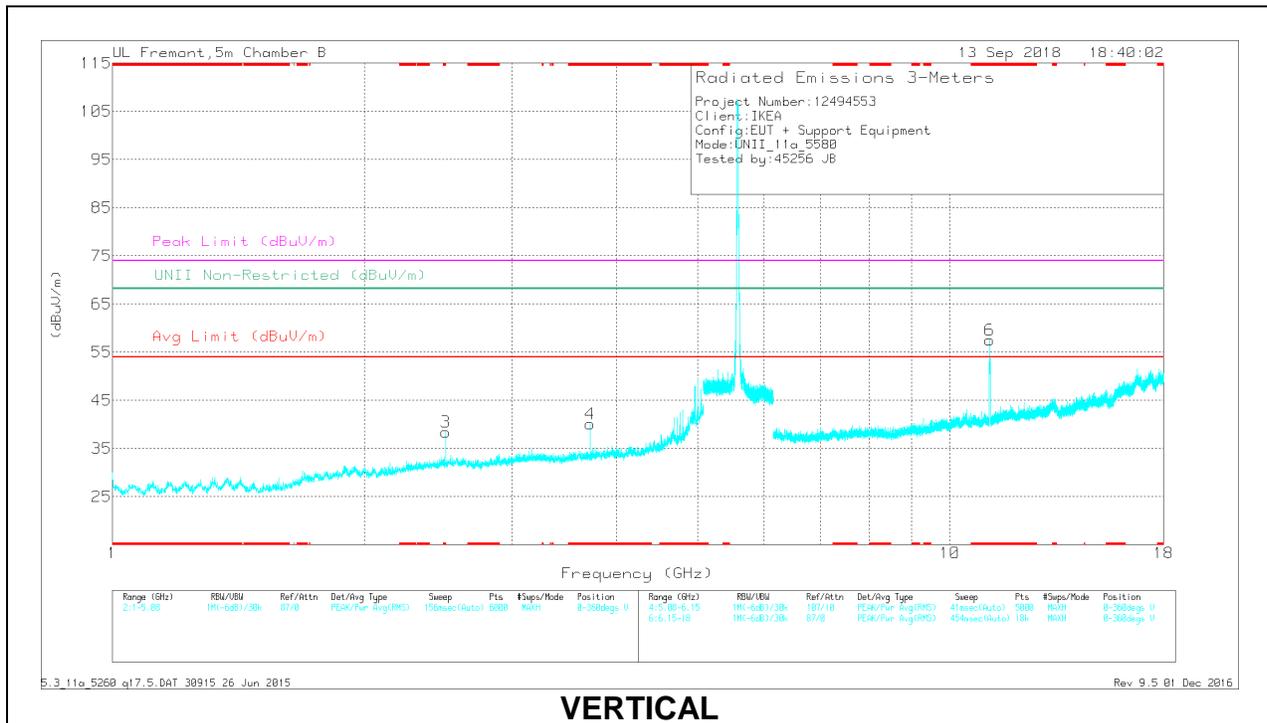
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

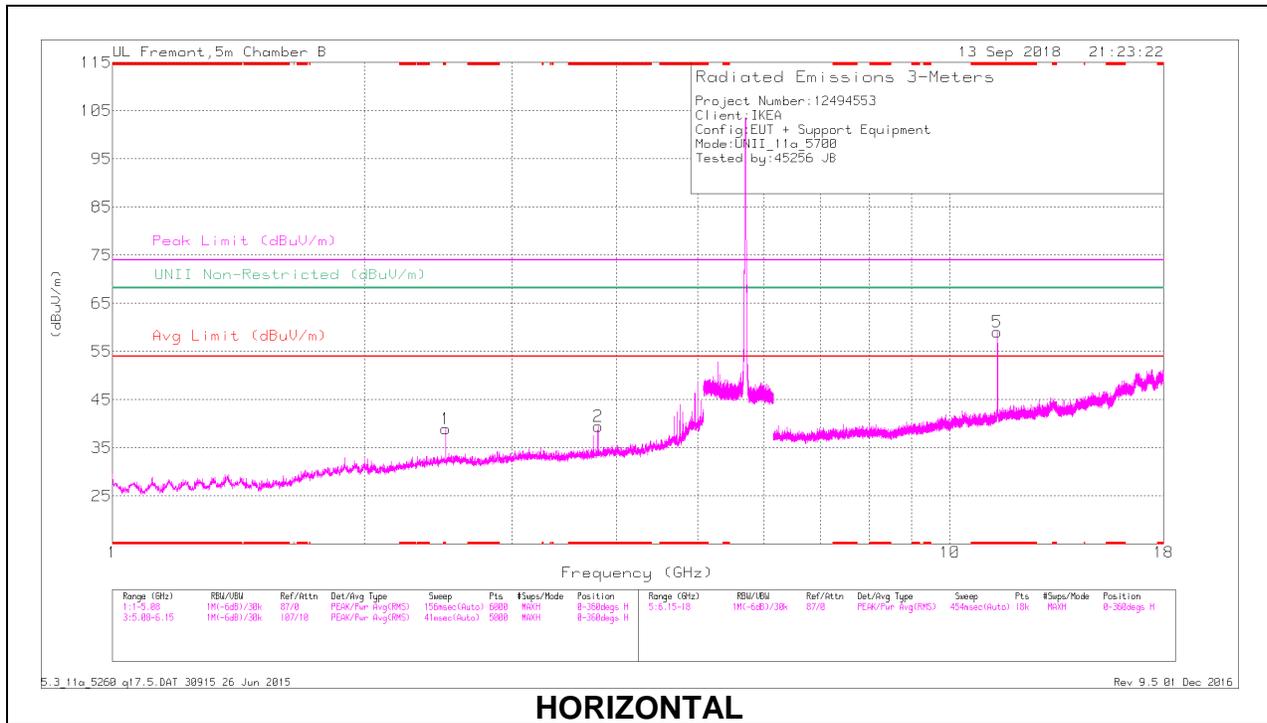
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.75	41.8	PK-U	33.3	-30.9	0	44.2	-	-	74	-29.8	-	-	196	173	H
	* 3.75	33.31	ADR	33.3	-30.9	.1	35.81	54	-18.19	-	-	-	-	196	173	H
3	* 2.5	45.08	PK-U	32.7	-32.1	0	45.68	-	-	74	-28.32	-	-	99	185	V
	* 2.5	39.77	ADR	32.7	-32.1	.1	40.47	54	-13.53	-	-	-	-	99	185	V
4	* 3.72	43.67	PK-U	33.3	-31.1	0	45.87	-	-	74	-28.13	-	-	278	183	V
	* 3.72	38.07	ADR	33.3	-31.1	.1	40.37	54	-13.63	-	-	-	-	278	183	V
5	* 11.159	48.22	PK-U	37.9	-23.1	0	63.02	-	-	74	-10.98	-	-	103	124	H
	* 11.159	36.39	ADR	37.9	-23.1	.1	51.29	54	-2.71	-	-	-	-	103	124	H
6	* 11.159	48.94	PK-U	37.9	-23.1	0	63.74	-	-	74	-10.26	-	-	317	200	V
	* 11.158	37.16	ADR	37.9	-23.1	.1	52.06	54	-1.94	-	-	-	-	317	200	V
1	2.5	43.68	PK-U	32.7	-32.1	0	44.28	-	-	-	-	68.2	-23.92	71	203	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

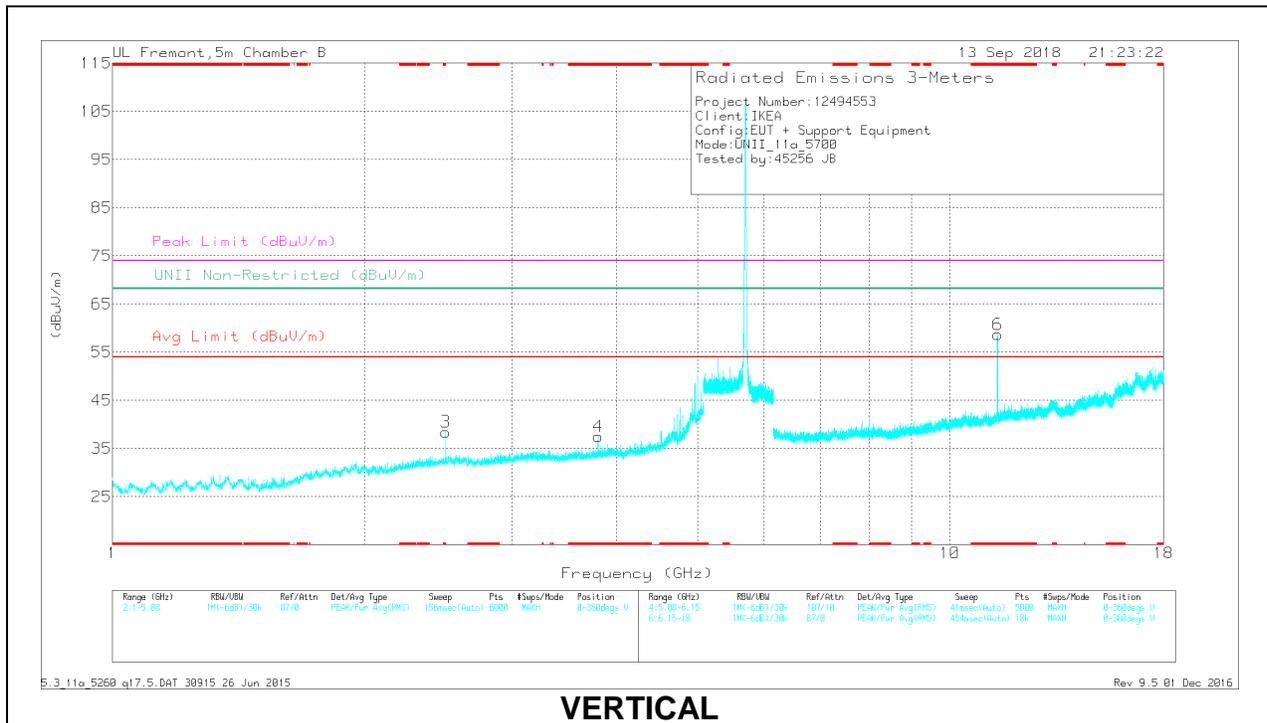
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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
2	* 3.8	42.48	PK-U	33.4	-30.8	0	45.08	-	-	74	-28.92	-	-	176	220	H
	* 3.8	36.16	ADR	33.4	-30.8	.1	38.86	54	-15.14	-	-	-	-	176	220	H
4	* 3.8	41.55	PK-U	33.4	-30.8	0	44.15	-	-	74	-29.85	-	-	41	139	V
	* 3.8	33.53	ADR	33.4	-30.8	.1	36.23	54	-17.77	-	-	-	-	41	139	V
5	* 11.398	49.73	PK-U	38.4	-22.9	0	65.23	-	-	74	-8.77	-	-	102	299	H
	* 11.397	37.89	ADR	38.4	-22.9	.1	53.49	54	-5.1	-	-	-	-	102	299	H
6	* 11.403	49.57	PK-U	38.4	-22.9	0	65.07	-	-	74	-8.93	-	-	234	102	V
	* 11.403	37.4	ADR	38.4	-22.9	.1	53	54	-1	-	-	-	-	234	102	V
1	2.5	43.99	PK-U	32.7	-32.1	0	44.59	-	-	-	-	68.2	-23.61	73	206	H
3	2.5	44.84	PK-U	32.7	-32.1	0	45.44	-	-	-	-	68.2	-22.76	104	176	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

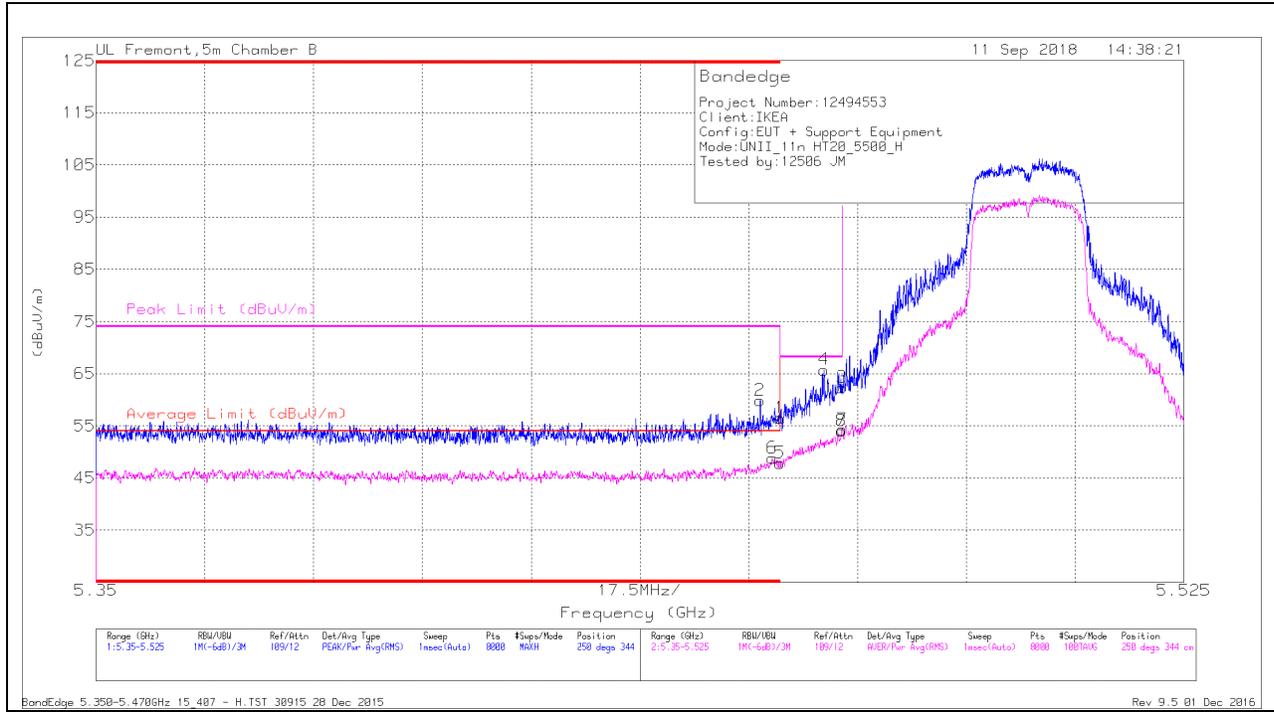
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

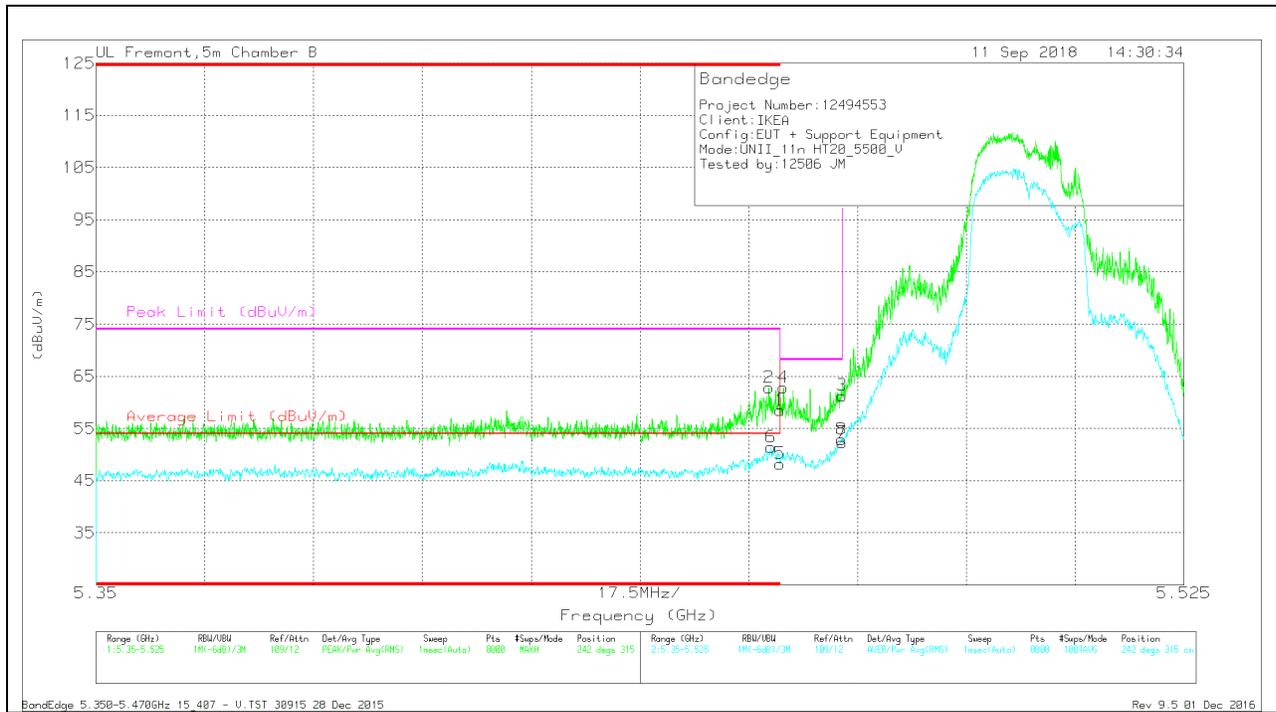
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.86	Pk	35.3	-18.7	0	56.46	-	-	74	-17.54	250	344	H
2	* 5.457	43.2	Pk	35.3	-18.6	0	59.9	-	-	74	-14.1	250	344	H
5	* 5.46	31.17	RMS	35.3	-18.7	.1	47.87	54	-6.13	-	-	250	344	H
6	* 5.459	31.81	RMS	35.3	-18.4	.1	48.81	54	-5.19	-	-	250	344	H
4	5.467	48.65	Pk	35.3	-18.2	0	65.75	-	-	68.2	-2.45	250	344	H
3	5.47	45.69	Pk	35.3	-18.6	0	62.39	-	-	68.2	-5.81	250	344	H
7	5.47	37.45	RMS	35.3	-18.6	.1	54.25	-	-	-	-	250	344	H
8	5.47	37.27	RMS	35.3	-18.6	.1	54.07	-	-	-	-	250	344	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/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	* 5.46	41.84	Pk	35.3	-18.7	0	58.44	-	-	74	-15.56	242	315	V
2	* 5.458	45.91	Pk	35.3	-18.4	0	62.81	-	-	74	-11.19	242	315	V
5	* 5.46	31.54	RMS	35.3	-18.7	.1	48.24	54	-5.76	-	-	242	315	V
6	* 5.459	34.36	RMS	35.3	-18.4	.1	51.36	54	-2.64	-	-	242	315	V
4	5.461	46.16	Pk	35.3	-18.6	0	62.86	-	-	68.2	-5.34	242	315	V
3	5.47	44.58	Pk	35.3	-18.6	0	61.28	-	-	68.2	-6.92	242	315	V
7	5.47	35.53	RMS	35.3	-18.6	.1	52.33	-	-	-	-	242	315	V
8	5.47	36.14	RMS	35.3	-18.6	.1	52.94	-	-	-	-	242	315	V

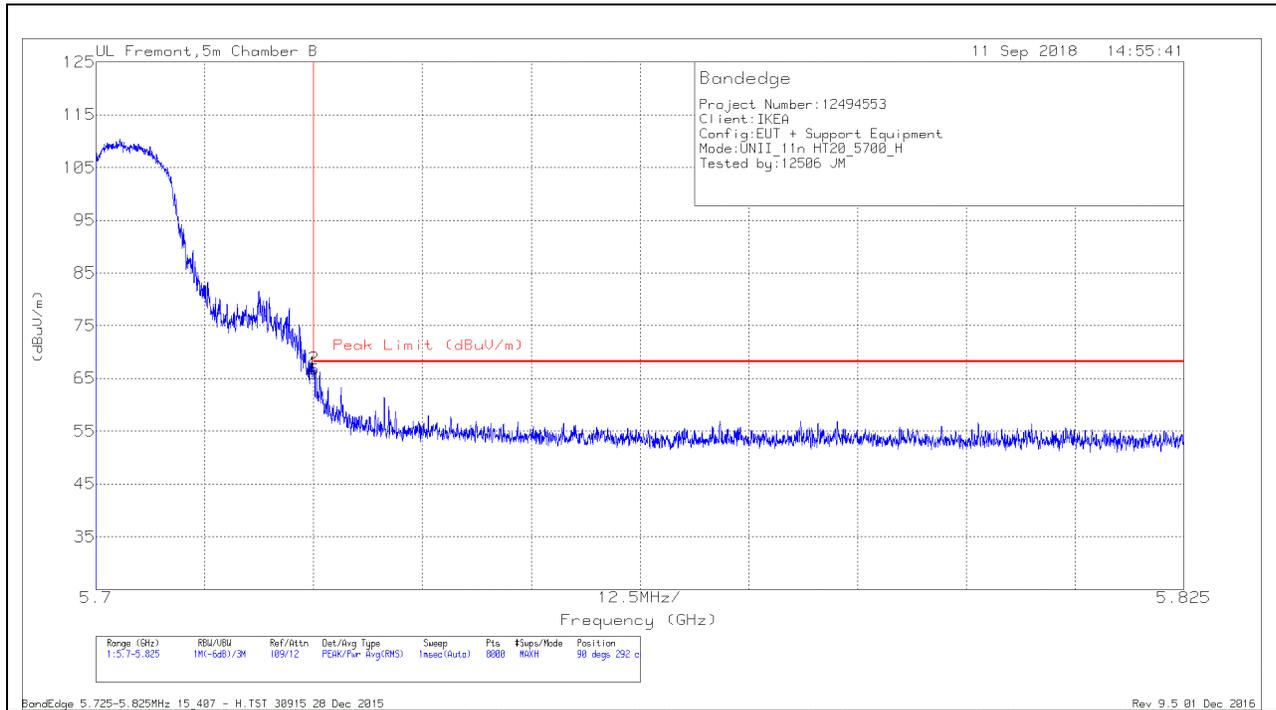
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

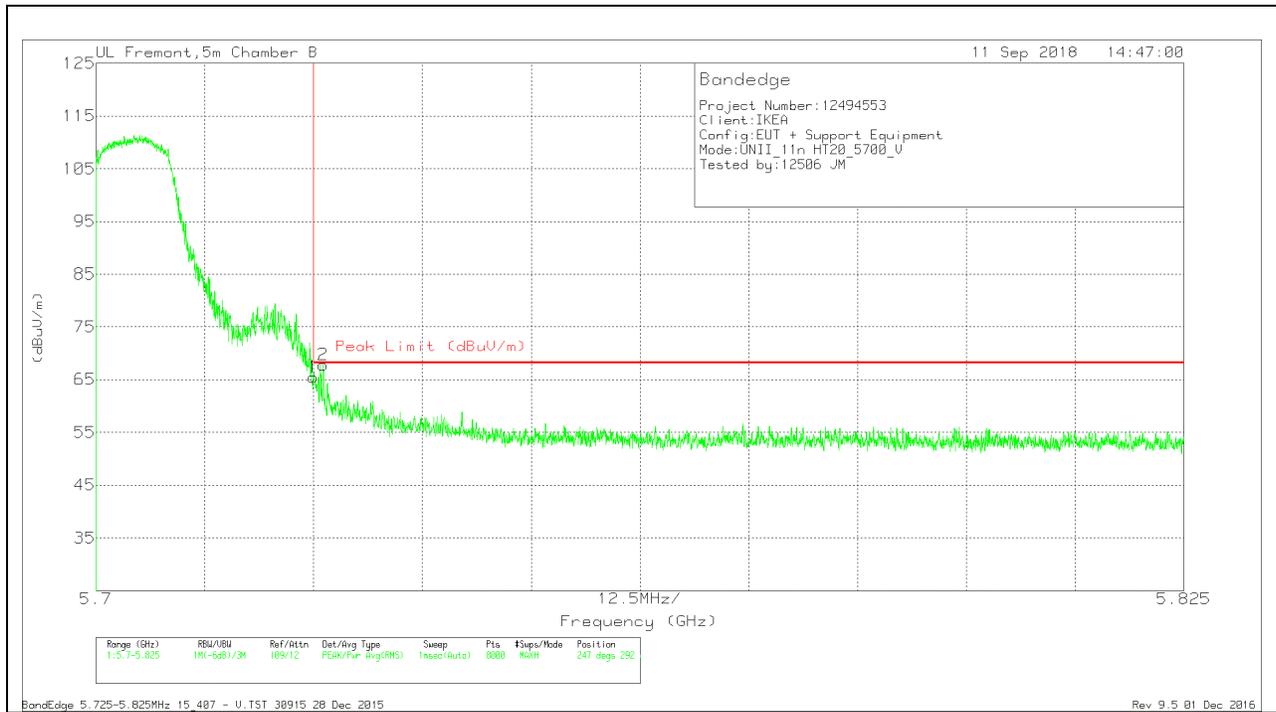


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	49.82	Pk	35.5	-19.4	65.92	68.2	-2.28	90	292	H
2	5.725	50.7	Pk	35.5	-19.4	66.8	68.2	-1.4	90	292	H

Pk - Peak detector

VERTICAL RESULT



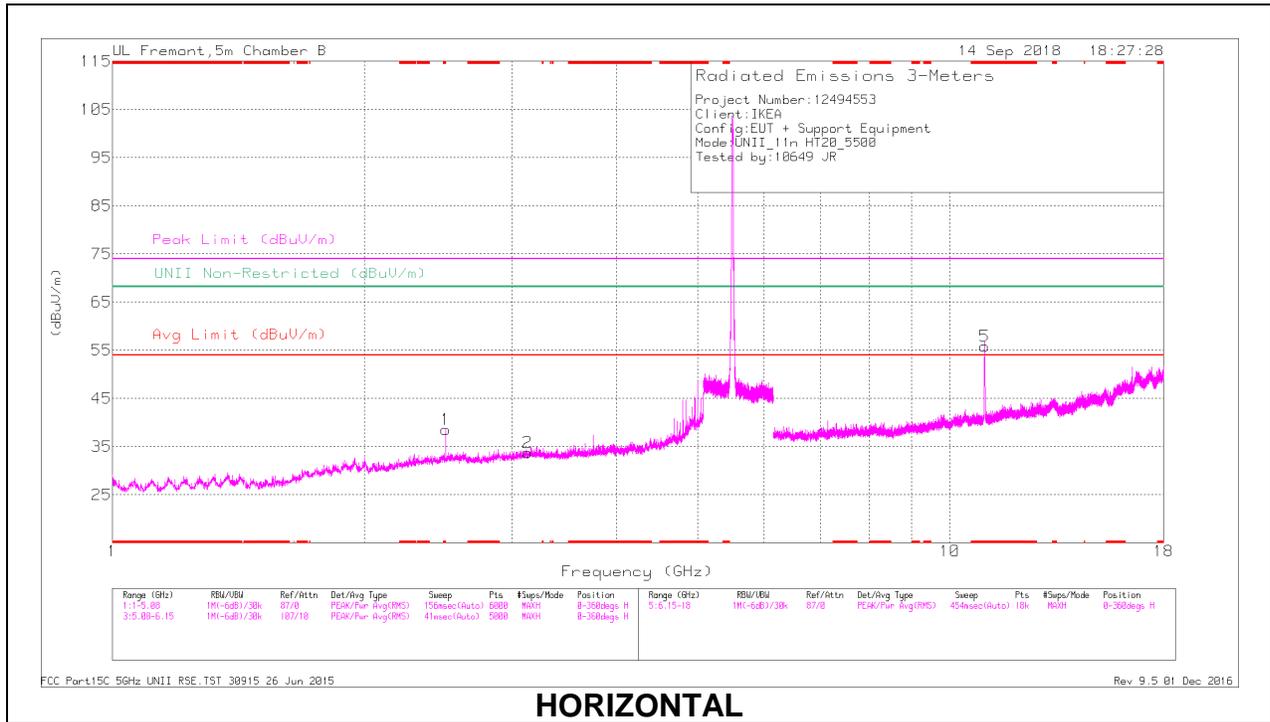
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	49.42	Pk	35.5	-19.4	65.52	68.2	-2.68	247	292	V
2	5.726	51.53	Pk	35.5	-19.2	67.83	68.2	-.37	247	292	V

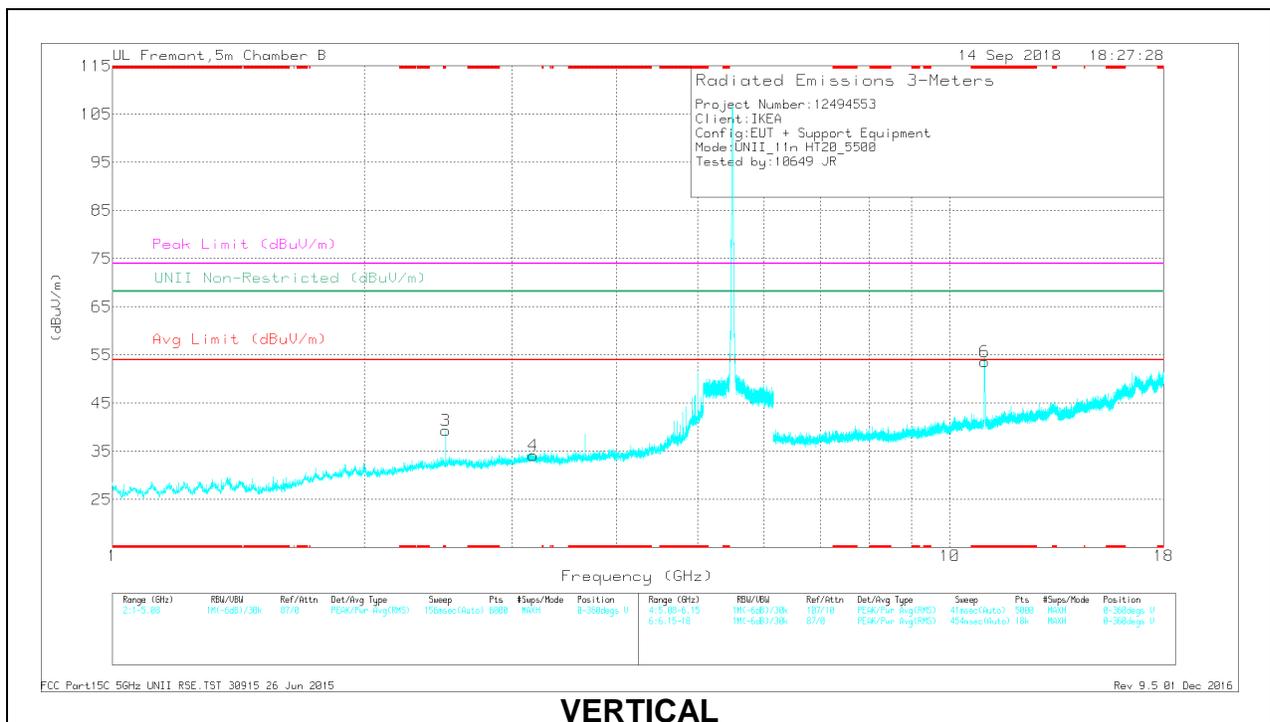
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL