



**FCC 47 CFR PART 15 SUBPART E
INDUSTRY CANADA RSS-210 ISSUE 8
CLASS II PERMISSIVE CHANGE
CERTIFICATION TEST REPORT**

FOR

TABLET DEVICE

MODEL NUMBER: A1622, A1623

**FCC ID: BCGA1489
IC: 579C-A1489**

REPORT NUMBER: 14U18979-E2, VERSION D

ISSUE DATE: FEBRUARY 13, 2015

Prepared for
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1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.**

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	01/26/2015	Initial Issue	M. Mekuria
B	02/05/2015	Revised report per TCB's questions	C. Pang
C	02/10/2015	Revised Section 5.6 to address TCB's question	T. Chu
D	02/13/2015	Revised Section 2 and Section 5.6 to address TCB's question	T. Chu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: TABLET DEVICE

MODEL: A1622, A1623

SERIAL NUMBER: F4KNN01FGDKQ (MODEL: A1622) &
F4KNN00LGDKQ (MODEL: A1623)

DATE TESTED: NOVEMBER 14, 2014 TO JANUARY 23, 2015

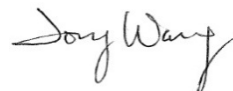
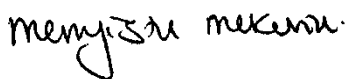
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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

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

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UL Verification Services Inc. By:

Tested By:



MENGISTU MEKURIA
SENIOR ENGINEER
UL VERIFICATION SERVICES INC.

TONY WANG
EMC ENGINEER
UL VERIFICATION SERVICES INC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC KDB 662911 D01, FCC KDB 905462 D01, FCC KDB 789033 D01 General UNII Test Procedures Old Rules v01r04 and ANSI C63.4-2009, RSS-GEN Issue 4, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
☐ Chamber A	☐ Chamber D
☐ Chamber B	☒ Chamber E
☐ Chamber C	☐ Chamber F
	☒ Chamber G
	☒ Chamber H

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	±3.52 dB
Radiated Disturbance, 30 to 1000 MHz	±4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1.DESCRPTION OF EUT

Models A1622 and A1623 are tablet display accessories with IEEE 802.11a/b/g/n (SISO 1x1) and Bluetooth radios.

5.2.DESCRPTION OF MODELS DIFFERENCES

EUT MODEL	Description
A1622	This is a portable device. It has additional internal battery packs and has a steel/rubber back cover.
A1623	This is a Non-portable device that does not have additional battery packs and has adhesives on bottom side of unit to adhere to a table surface.

5.3.DESCRPTION OF CLASS II PERMISSIVE CHANGE

To add Models A1622 and A1623 to original Model A1489 grant (FCC ID: BCGA1489, IC: 579C-A1489).

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an IFA antenna, with a maximum gain as below table:

Frequency (MHz)	Antenna Peak Gain
5150 – 5250	2.835
5250 – 5350	3.186
5500 – 5700	4.265

NOTE: DFS bands antenna peak gain is higher than original application antenna peak gain; therefore DFS testing is exempted from this Class II permissive change application.

5.5. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 6.25.105

The test utility software used during testing was wl 6.25 RC87.120

5.6. WORST-CASE CONFIGURATION AND MODE

Radiated emission and AC power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The watch is only used in the AC power line and receiver tests, not in the WLAN/BT transmitter testing.

The fundamental of the EUT was investigated in three orthogonal orientations X (Flatbed), Y (Landscape), Z (Portrait), it was determined that Z (Portrait) was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z (Portrait) orientation.

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

802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0

Radiated emissions for EUT with antenna was performed and passed; therefore, antenna port spurious was not performed.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Dell	Lattitude 3640	D49G802	DoC
Laptop Adapter	Dell	HA65NM130	CN-06TFFF-75661-426-03PG-A00	DoC
AC Adapter	Apple	MD836LL/A	N/A	N/A
AC Adapter	Apple	MD506LL/A	N/A	N/A
AC Adapter	Apple	MD592LL/A	N/A	N/A
Watch	Apple	A1638	FGNJ02AFY2F	BCG-E2871

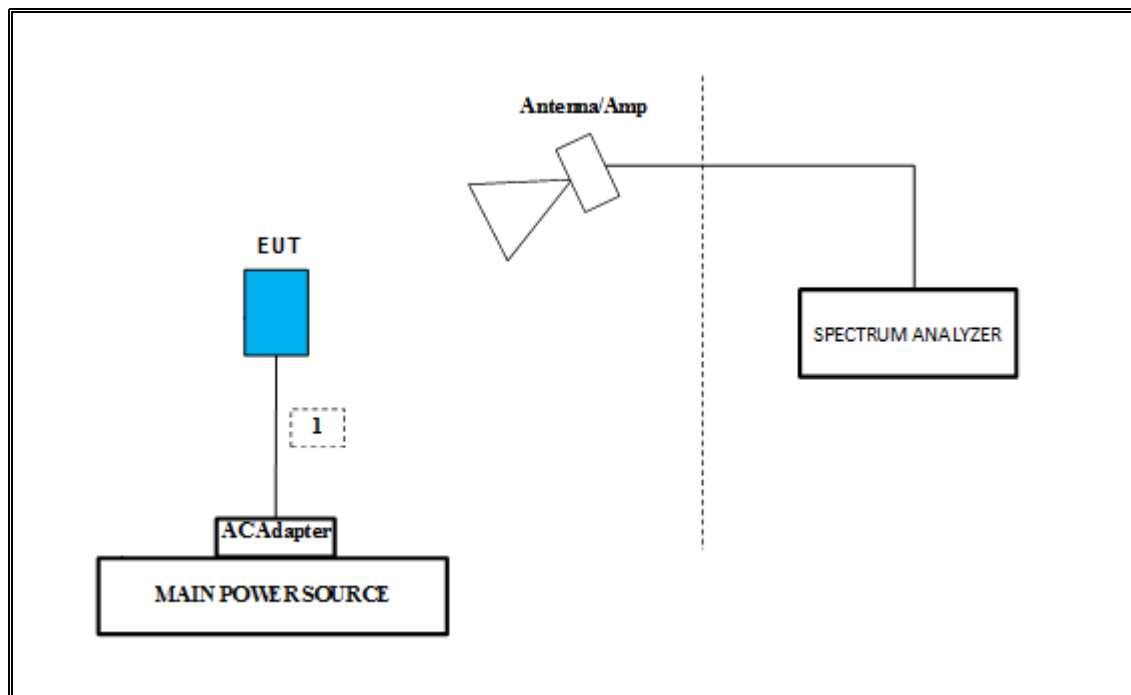
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	DC	Un-shielded	2.0m	N/A
2	AC	1	AC	Un-shielded	2.0m	N/A
3	DC	1	DC	Un-shielded	1.0m	Custom Lightning Cable # LA0645649-1H

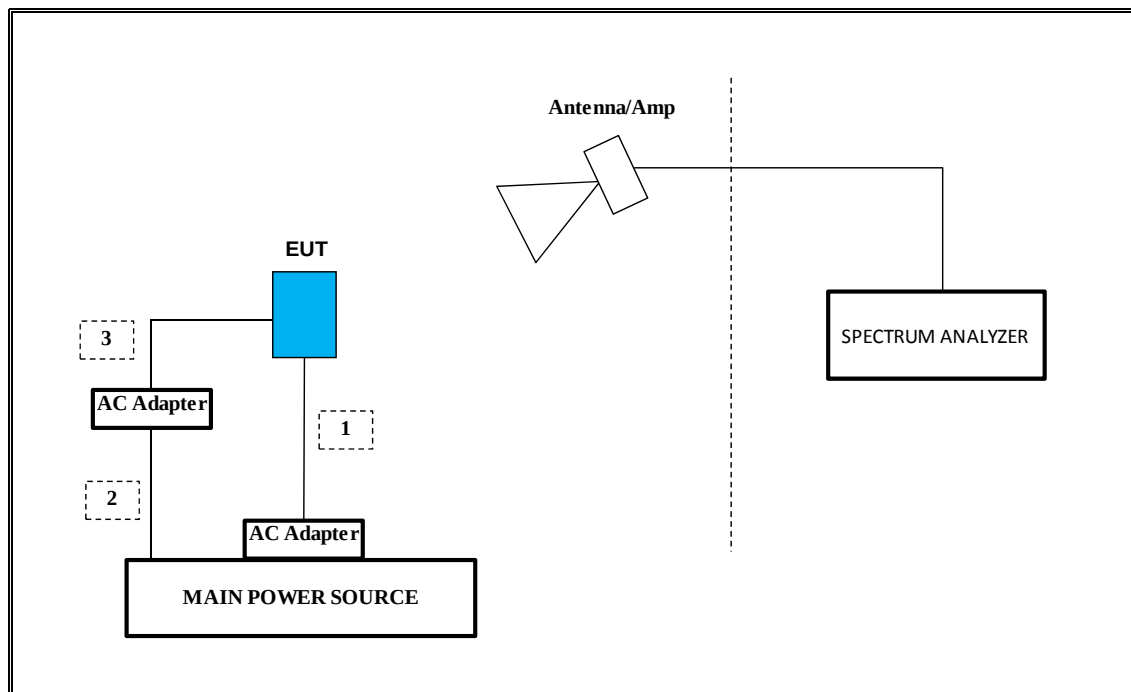
SETUP DIAGRAM – BELOW 1G RADIATED

The EUT is powered by AC/DC adapter. It is only connected to the support laptop computer to make any parameter change.

MODEL: A1622

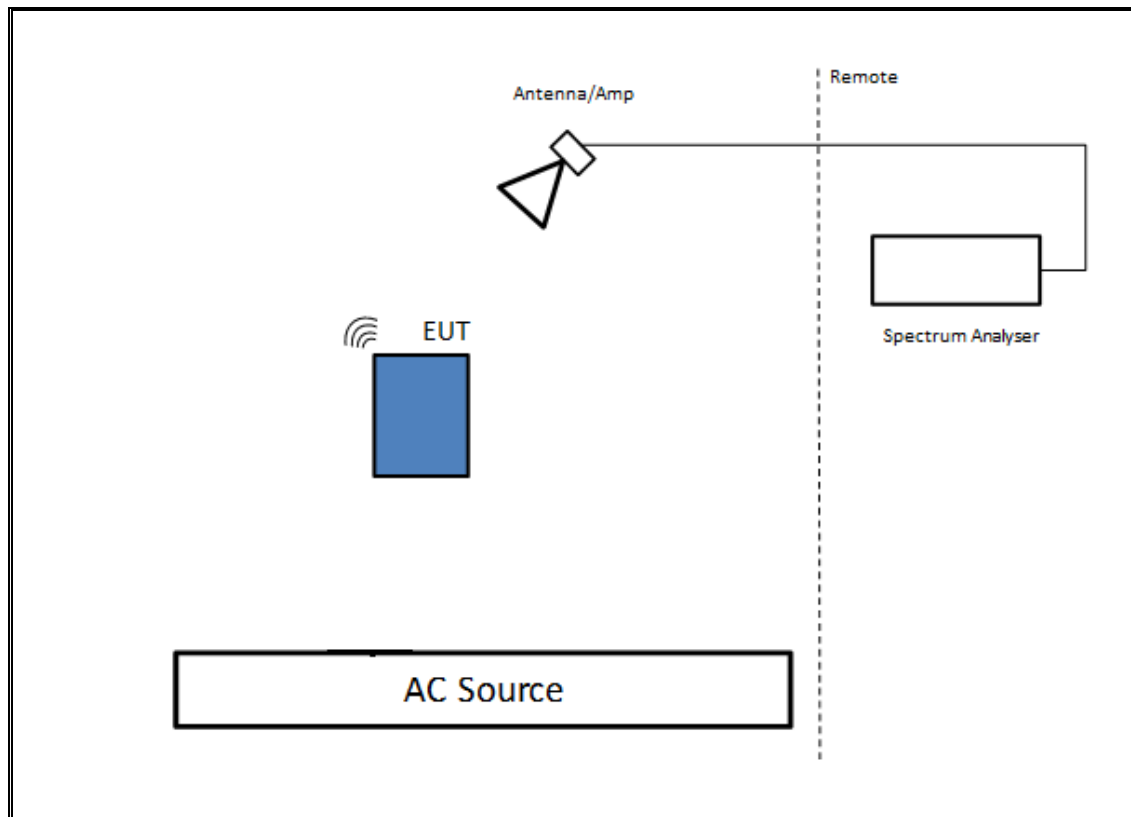


MODEL: A1623



SETUP DIAGRAM – ABOVE 1G RADIATED TEST

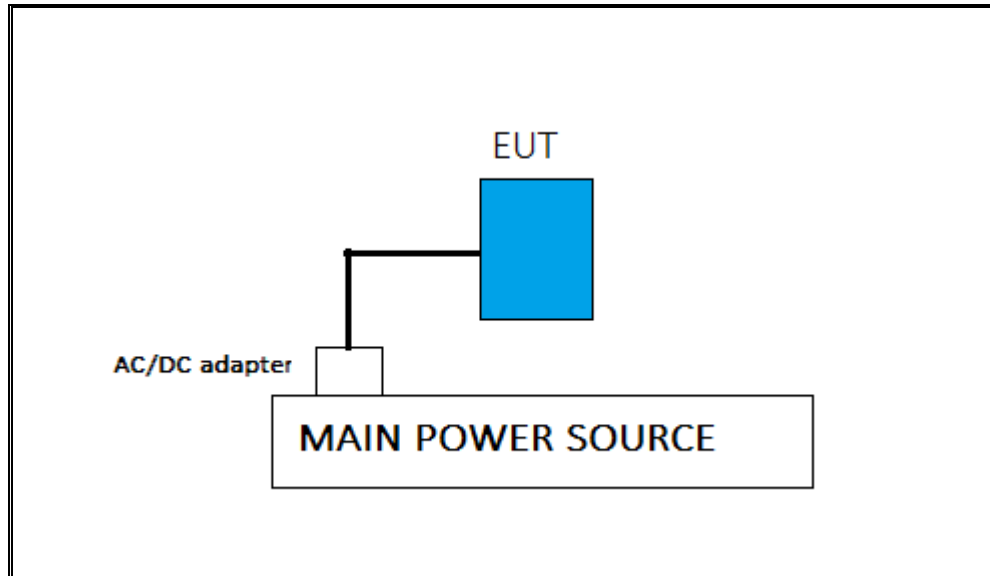
The EUT is a stand-alone unit. It is only connected to the support laptop computer to make any parameter change.



SETUP DIAGRAM – AC LINE EMISSION TESTS

The EUT is powered by AC/DC adapter. It is only connected to the support laptop computer to make any parameter change.

AC/DC ADAPTER MODEL NUMBER: MD506LL/A, MD836LL/A OR MD592LL/A



6. 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	Serial Number	Cal Due
Antenna, Horn 1-18GHz	ETS Lindgren	3117	00143449	2/25/2015
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	No Serial Number	2/7/2015
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	US51350187	5/2/2015
Antenna, Horn 1-18GHz	ETS Lindgren	3117	165318	4/14/2015
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	A051314-2	4/27/2015
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	1818464	6/5/2015
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	325118	6/5/2015
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	MY53311010	5/17/2015
Antenna, Horn 1-18GHz	ETS Lindgren	3117	00165319	4/14/2015
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	A051314-1	3/28/2015
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	1818462	6/5/2015
Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	325117	6/5/2015
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	MY53310959	5/7/2015
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	MY53310972	5/8/2015
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Agilent	8449B	3008A04710	3/25/2015
Antenna, Horn 18 to 26.5GHz	ARA	SWH-28	1007	5/9/2015
Spectrum Analyzer, 40 GHz	Agilent	8564E	3943A01643	8/6/2015

7. MEASUREMENT METHODS

Unwanted emissions in restricted bands: KDB 789033 D02 v01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v01, Sections G.3, G.4, and G.5.

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

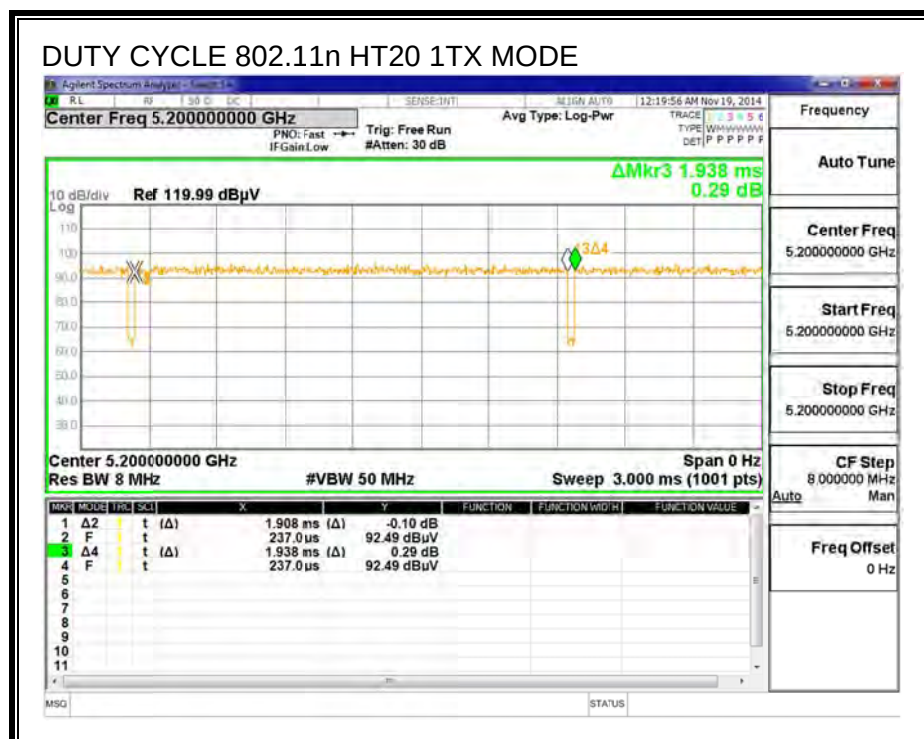
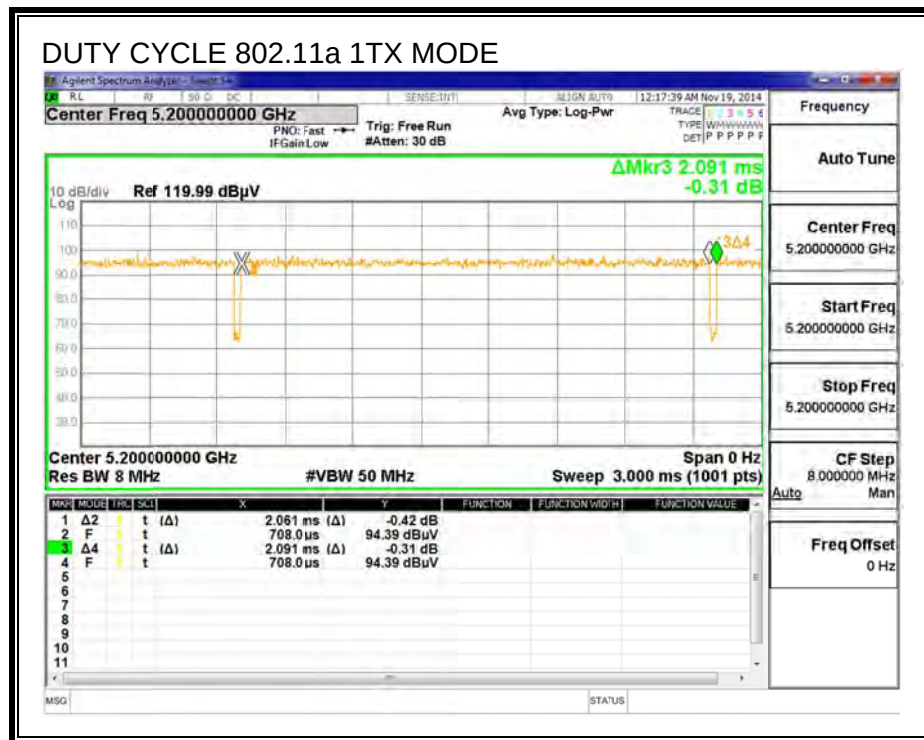
PROCEDURE

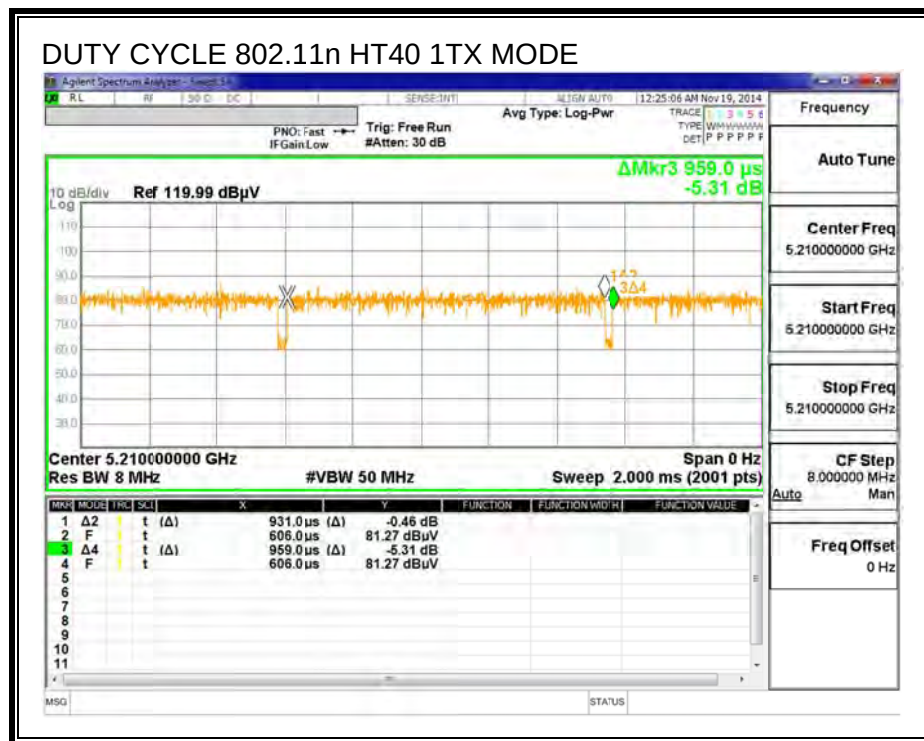
KDB 789033 Zero-Span Spectrum Analyzer Method.

8.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11a 1TX	2.061	2.091	0.986	98.57%	0.000	0.010
802.11n HT20 1TX	1.908	1.938	0.985	98.45%	0.000	0.010
802.11n HT40 1TX	0.931	0.959	0.971	97.08%	0.129	1.074

8.2. DUTY CYCLE PLOTS





Note: Additional offset: Duty Cycle Applied for HT40 mode Average Bandedge and Spurious harmonics data.

ON Time / Period = Duty Cycle (dB)

$$0.931 / 0.959 = 0.970802$$

$$= \text{IF}(\text{Duty Cycle} < 0.98, 10 * \text{LOG}(1 / \text{Duty Cycle}), 0)$$

$$= (10 * \text{LOG}(1 / 0.970802), 0)$$

$$\text{Duty Cycle Correction Factor} = 0.12869337 \text{ dB}$$

Adding Duty Cycle Offset:

$$\text{Bandedge Reading} + \text{Duty Cycle Correction Factor} = \text{Final Bandedge Reading}$$

9. ANTENNA PORT TEST RESULTS

For all antenna port results, refer the WLAN test report that has done by UL Verification Services INC. The report is 13U15668-2, FCC ID: BCGA1489, IC: 579C-A1489.

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.5 (Transmitter)

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. The antenna to EUT distance is 3 meters.

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

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

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

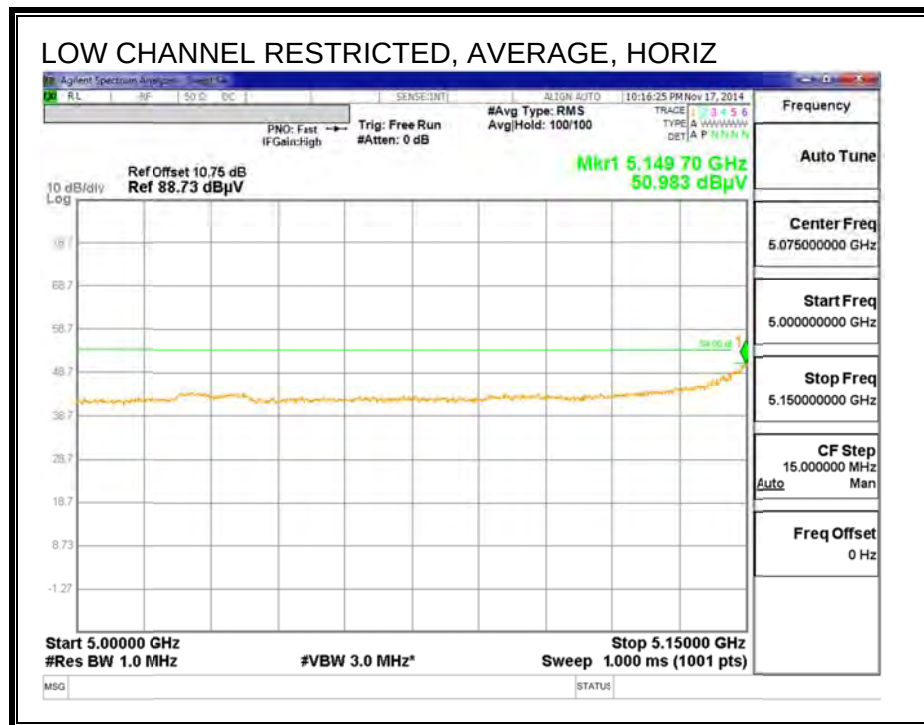
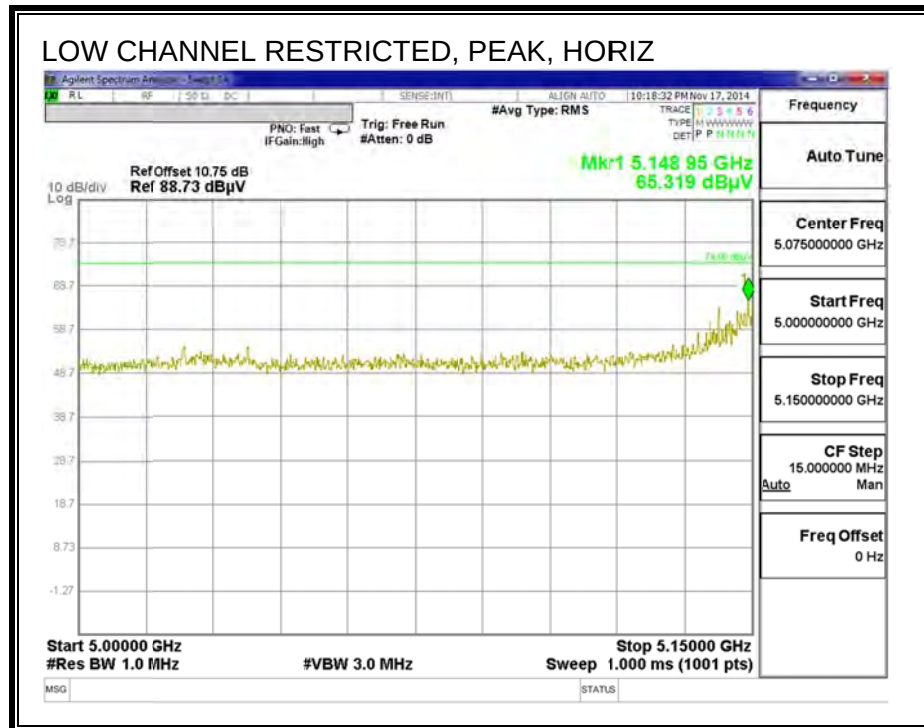
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

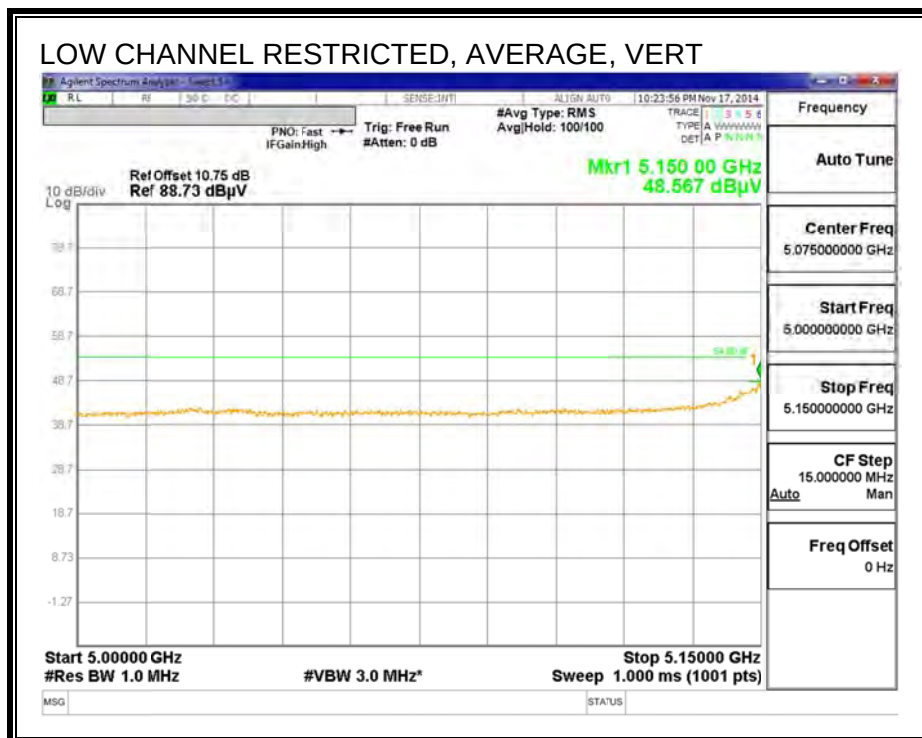
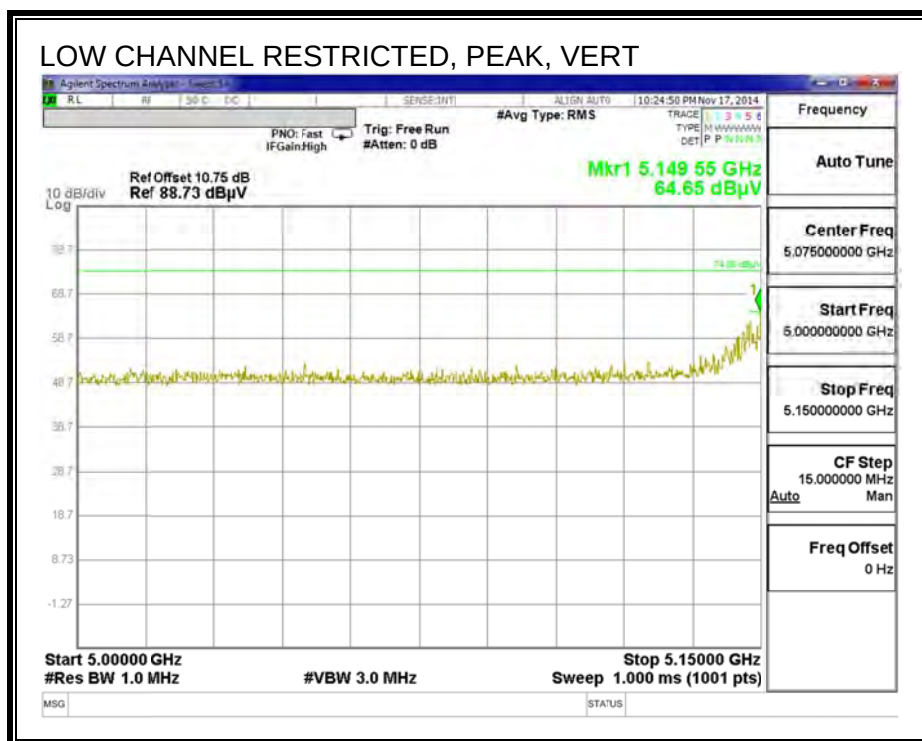
1TX mode indicates that only one antenna is transmitting.

10.2. MODEL: A1622

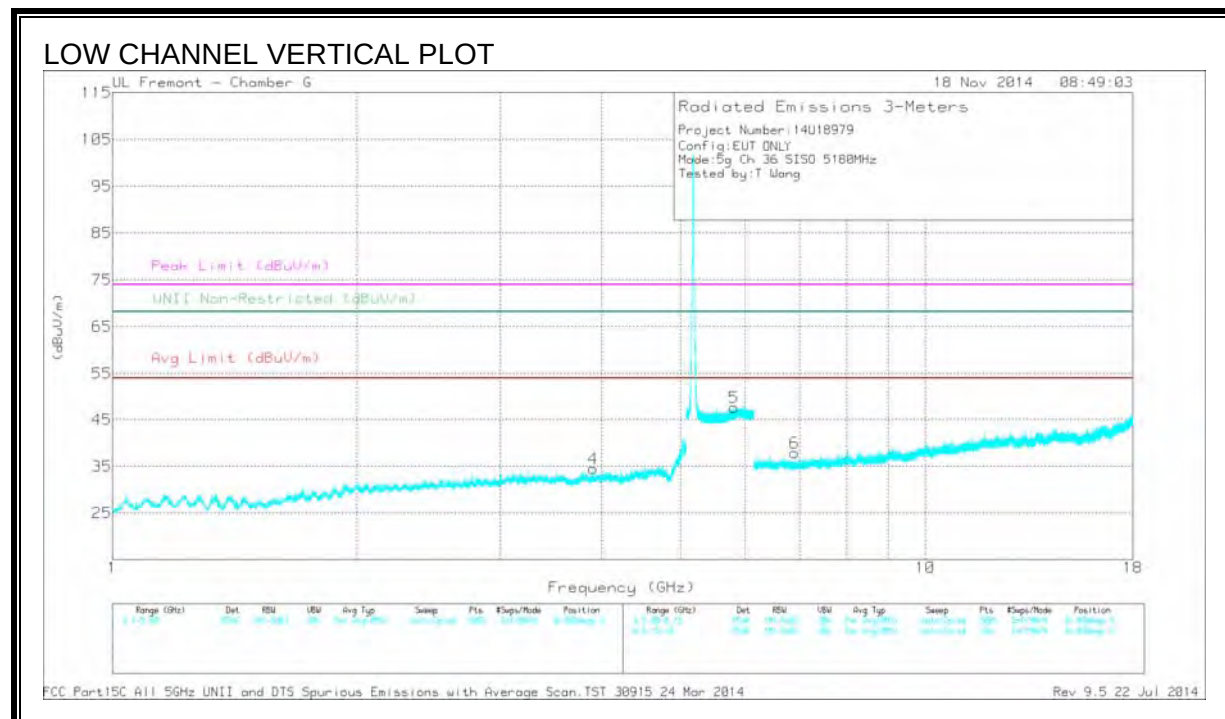
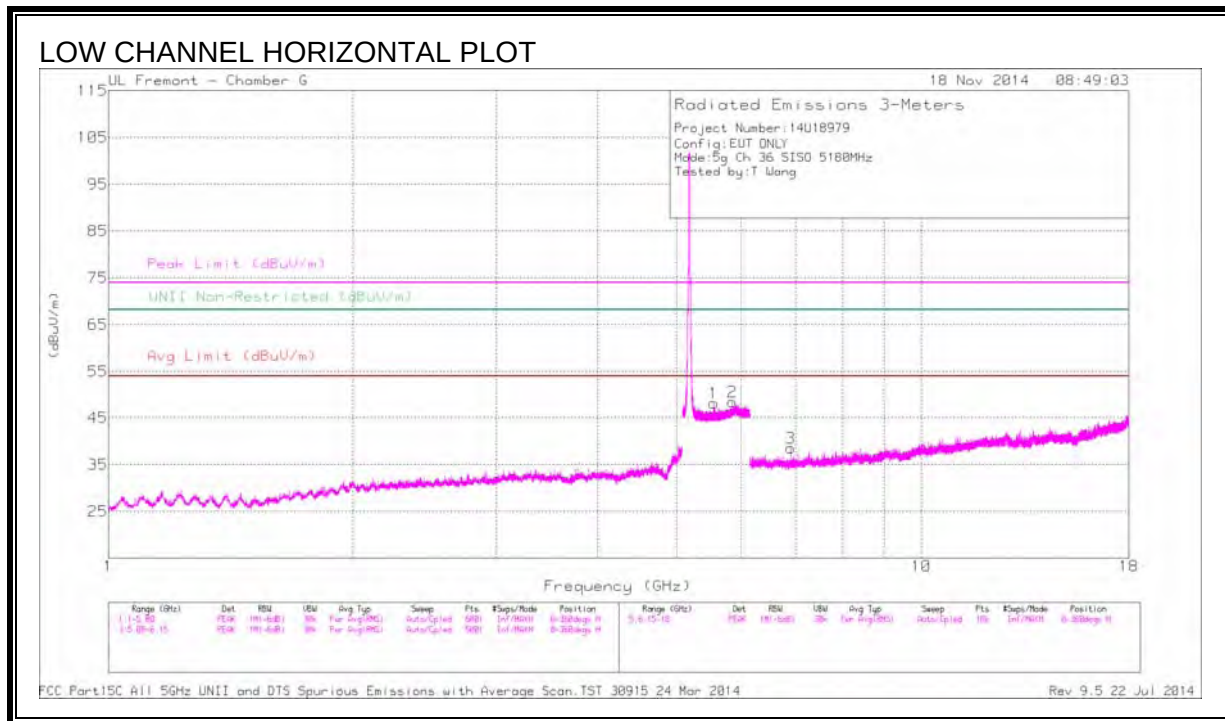
10.2.1. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

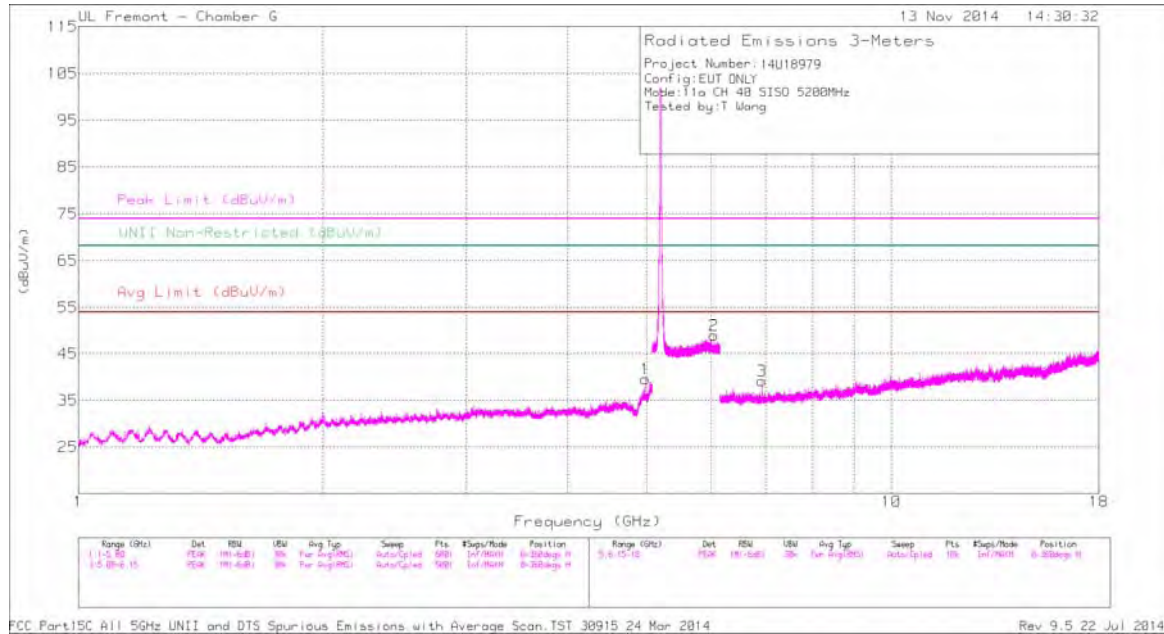
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	5.556	42.98	PK1	34.7	-23.6	54.08	-	-	-	-	68.2	-14.12	H
2	5.852	43.26	PK1	35.0	-23.6	54.66	-	-	-	-	68.2	-13.54	H
3	6.905	40.27	PK1	35.6	-31.8	44.07	-	-	-	-	68.2	-24.13	H
4	* 3.902	41.16	PK1	33.2	-33.8	40.56	-	-	74	-33.44	-	-	V
4	* 3.901	29.81	AD1	33.2	-33.8	29.21	54	-24.79	-	-	-	-	V
5	5.814	43.31	PK1	34.9	-23.6	54.61	-	-	-	-	68.2	-13.59	V
6	6.907	40.00	PK1	35.6	-31.8	43.80	-	-	-	-	68.2	-24.4	V

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

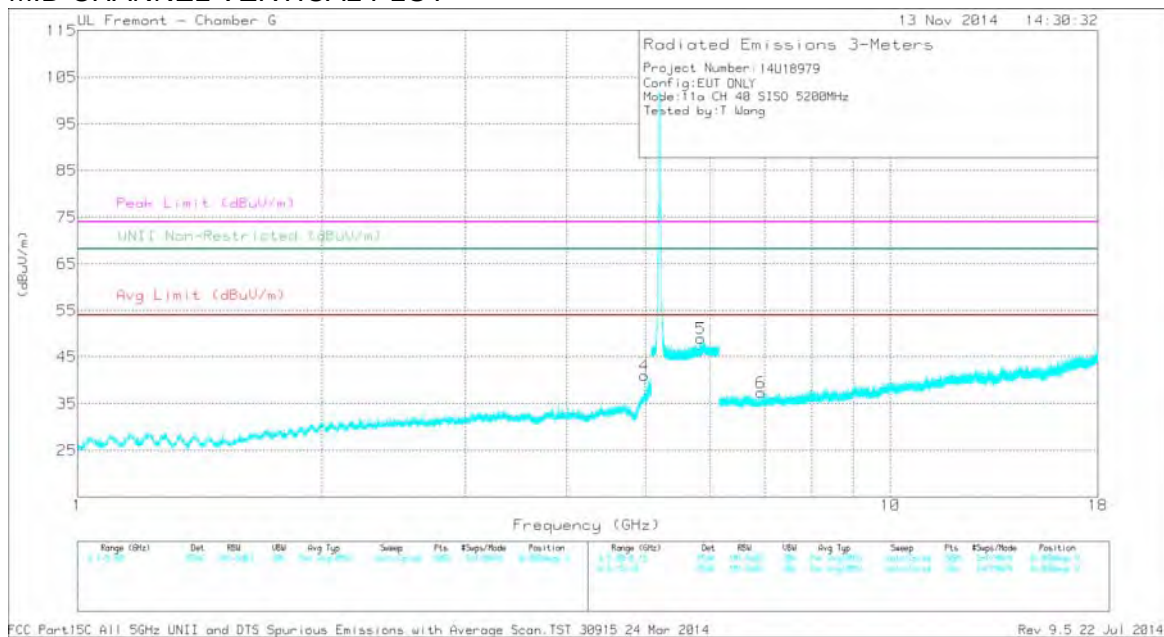
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

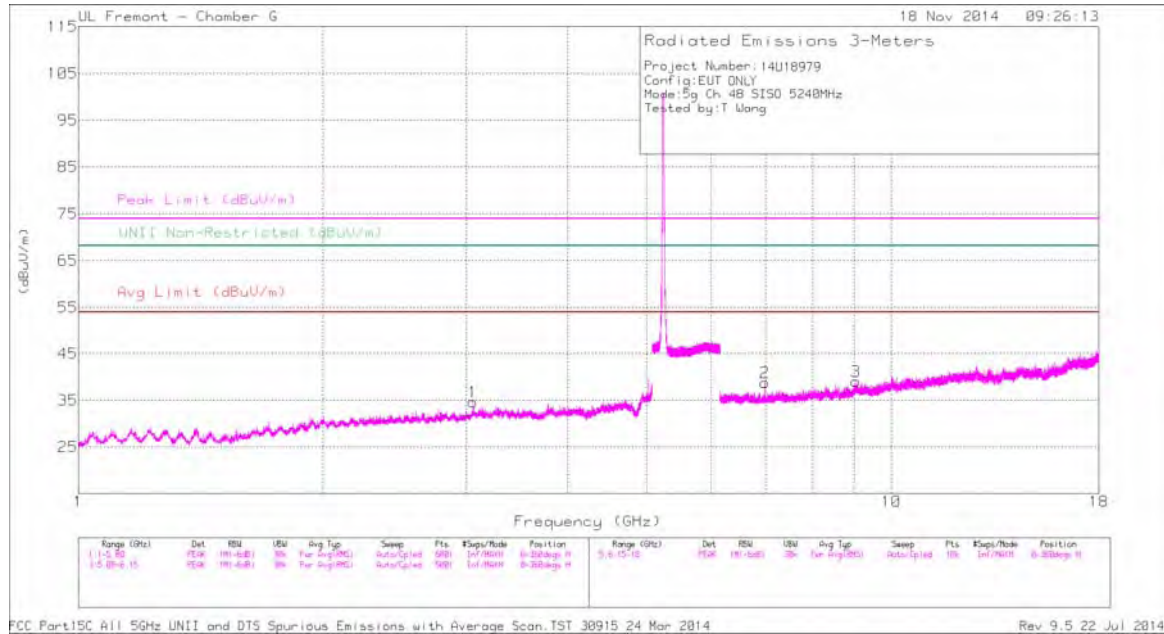
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.983	46.39	PK1	34.1	-31.9	48.59	-	-	74	-25.41	-	-	H
1	* 4.983	36.48	AD1	34.1	-31.9	38.68	54	-15.32	-	-	-	-	H
2	6.045	43.25	PK1	35.3	-23.5	55.05	-	-	-	-	68.2	-13.15	H
3	6.933	42.45	PK1	35.6	-31.9	46.15	-	-	-	-	68.2	-22.05	H
4	* 4.983	47.97	PK1	34.1	-31.9	50.17	-	-	74	-23.83	-	-	V
4	* 4.983	37.33	AD1	34.1	-31.9	39.53	54	-14.47	-	-	-	-	V
5	5.843	43.49	PK1	34.9	-23.6	54.79	-	-	-	-	68.2	-13.41	V
5	5.843	32.43	AD1	34.9	-23.6	43.73	-	-	-	-	-	-	V
6	6.933	41.80	PK1	35.6	-31.9	45.50	-	-	-	-	68.2	-22.70	V

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

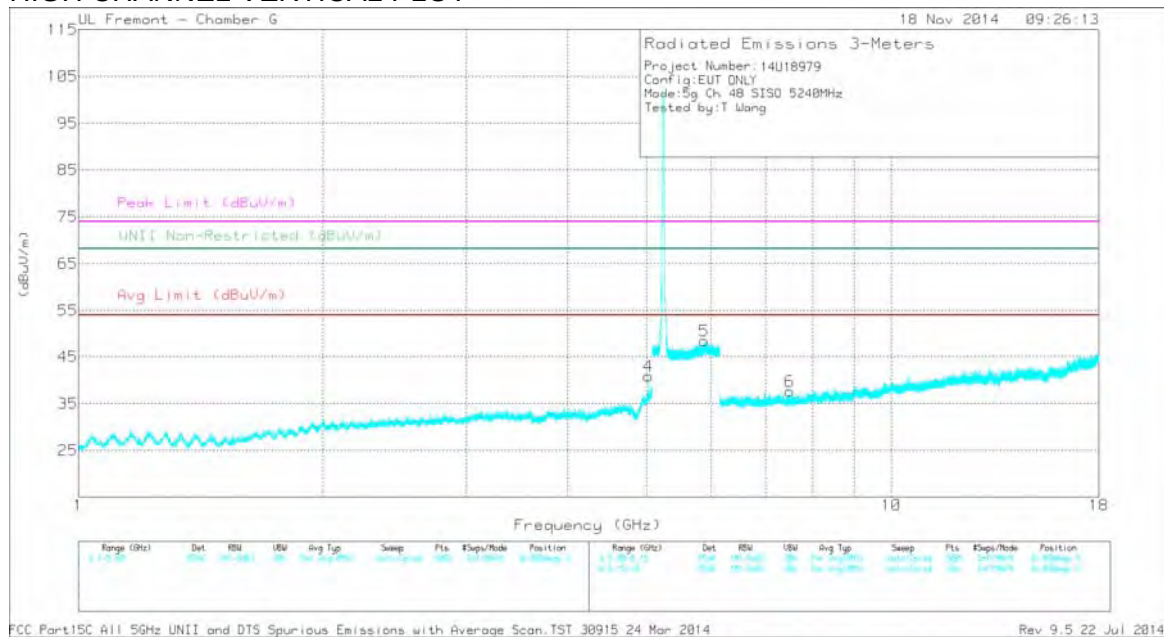
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Fitr/Pad (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)	Polarity
1	3.061	41.82	PK1	32.5	-33.4	40.92	-	-	-	-	68.2	-27.28	H
2	6.987	41.39	PK1	35.6	-31.7	45.29	-	-	-	-	68.2	-22.91	H
3	* 9.050	37.59	PK1	36.4	-28.4	45.59	-	-	74	-28.41	-	-	H
3	* 9.053	26.56	AD1	36.4	-28.3	34.66	54	-19.34	-	-	-	-	H
4	* 5.022	48.22	PK1	34.1	-32.1	50.22	-	-	74	-23.78	-	-	V
4	* 5.022	39.60	AD1	34.1	-32.1	41.60	54	-12.40	-	-	-	-	V
5	5.890	43.64	PK1	35.0	-23.6	55.04	-	-	-	-	68.2	-13.16	V
6	* 7.503	39.69	PK1	35.6	-31.3	43.99	-	-	74	-30.01	-	-	V
6	* 7.500	28.44	AD1	35.6	-31.2	32.84	54	-21.16	-	-	-	-	V

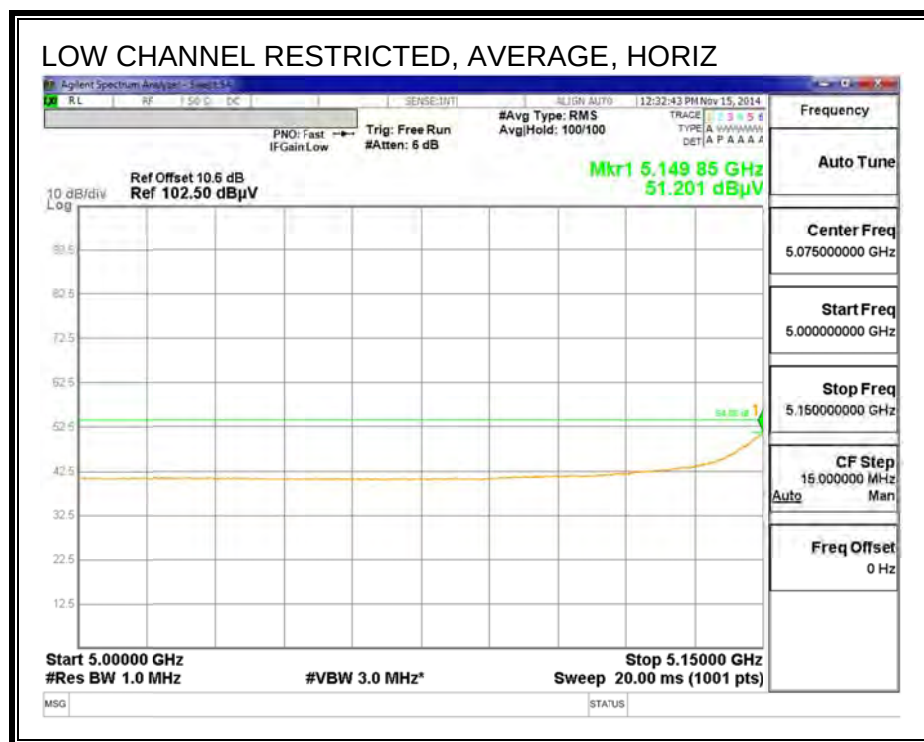
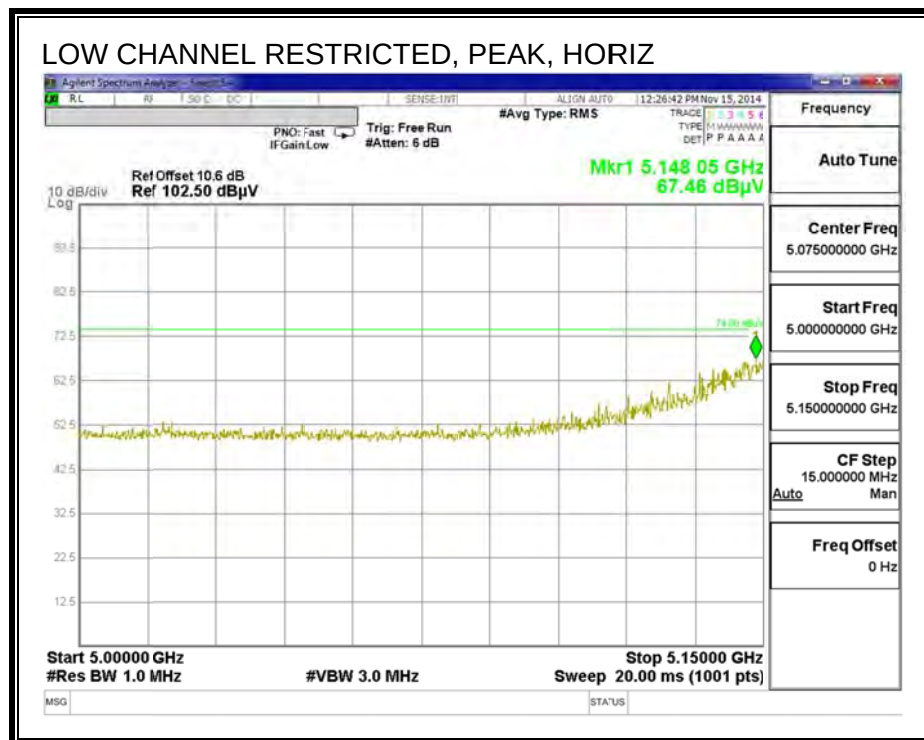
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

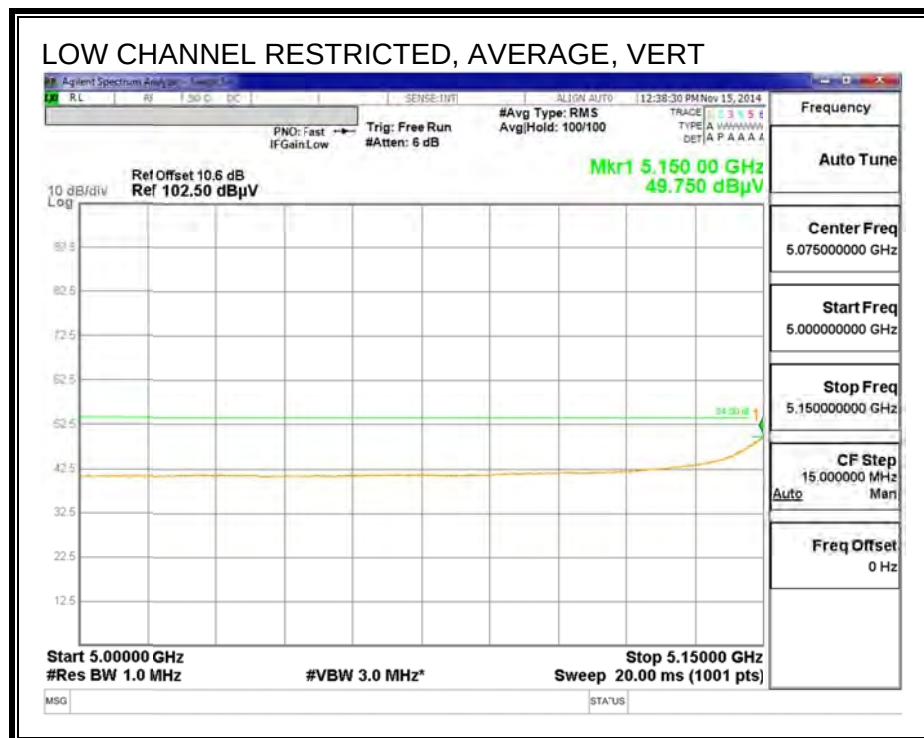
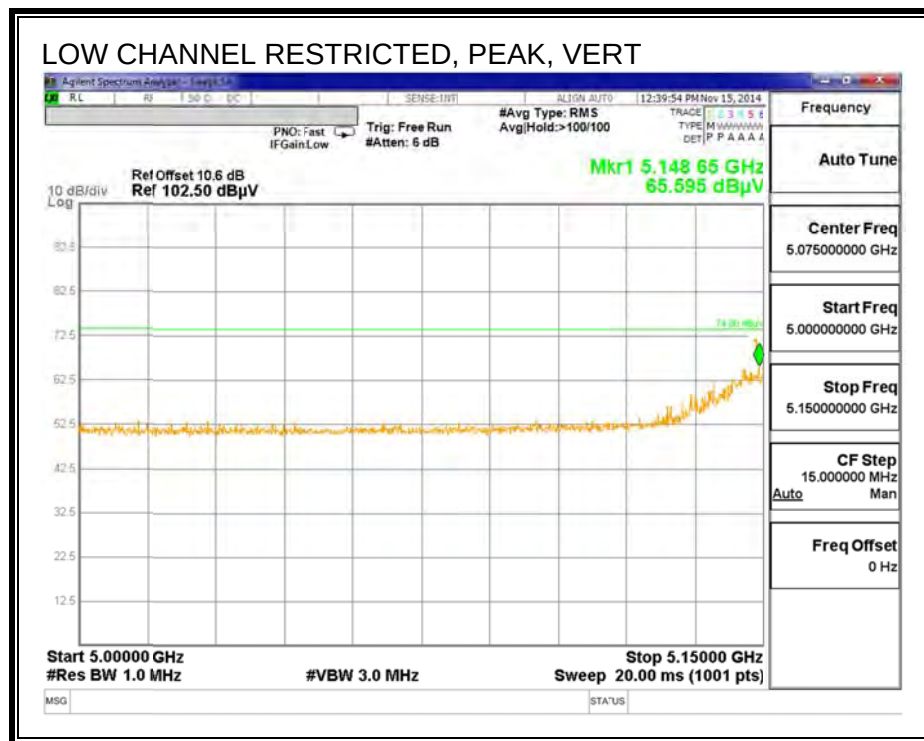
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

RESTRICTED BANEDGE (LOW CHANNEL)



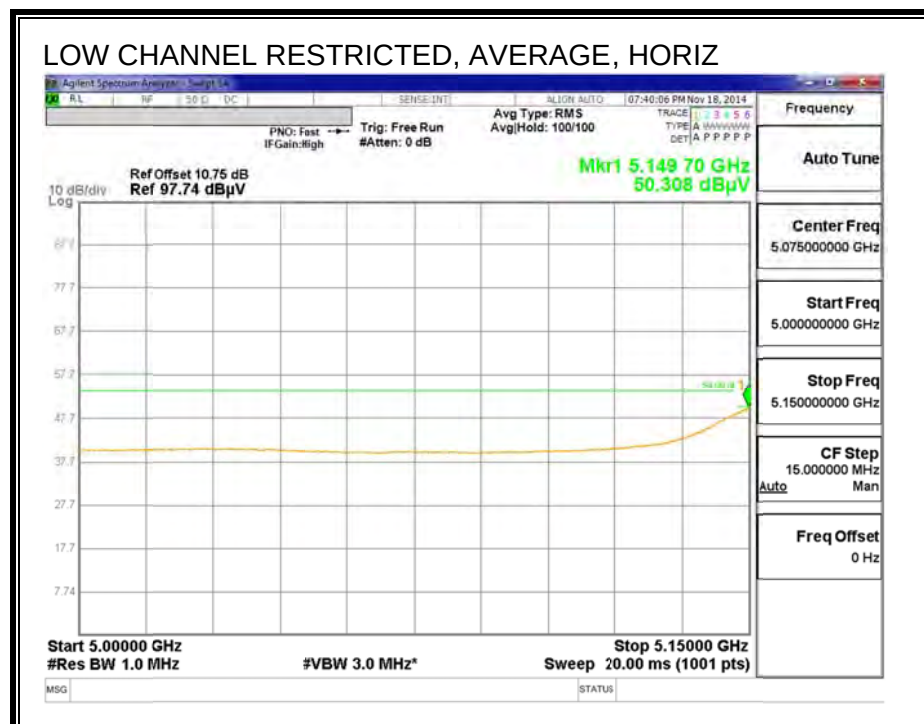
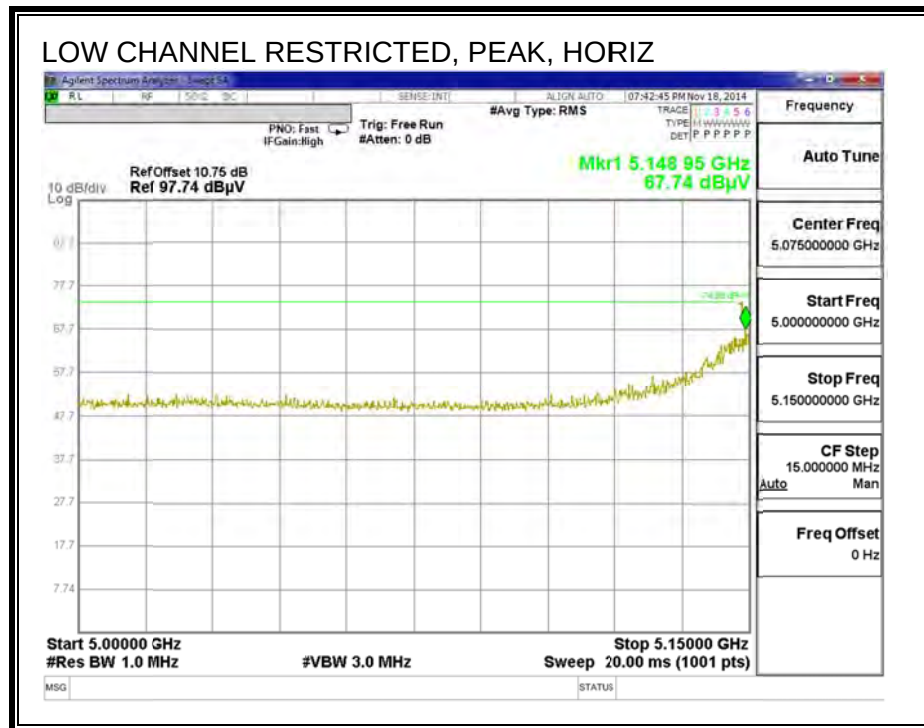


HARMONICS AND SPURIOUS EMISSIONS

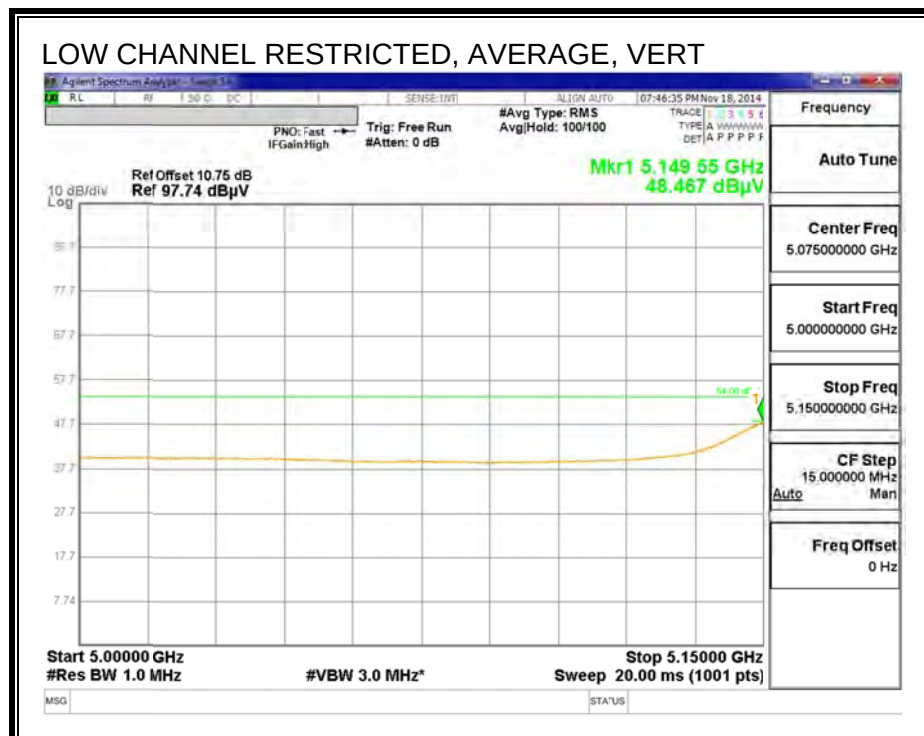
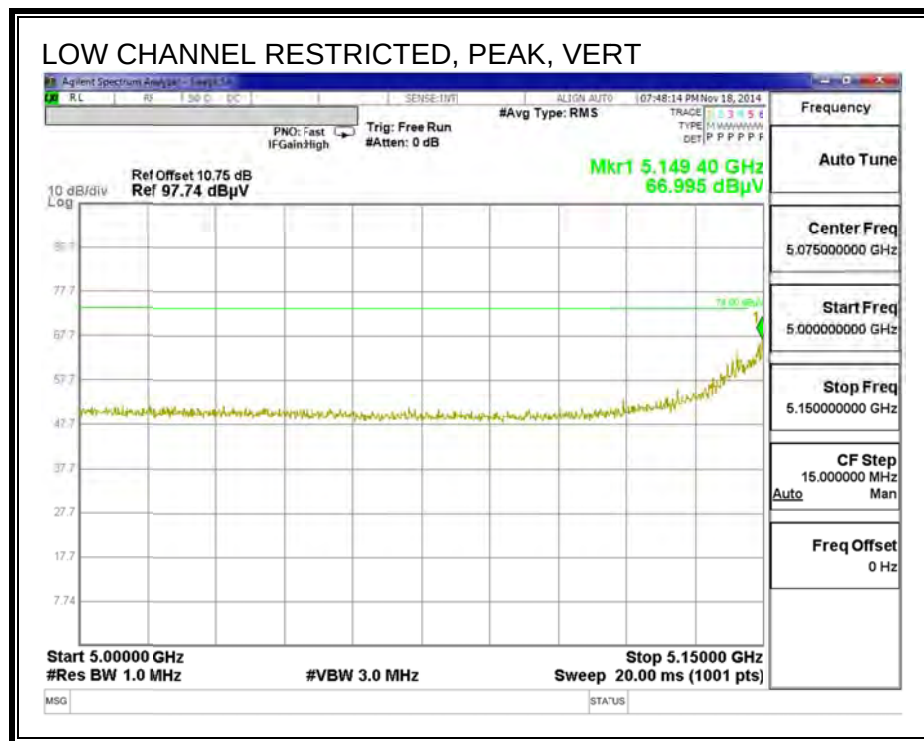
Note: this test is covered on by testing to 11a 1Tx Mode.

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

RESTRICTED BANDEDGE (LOW CHANNEL)

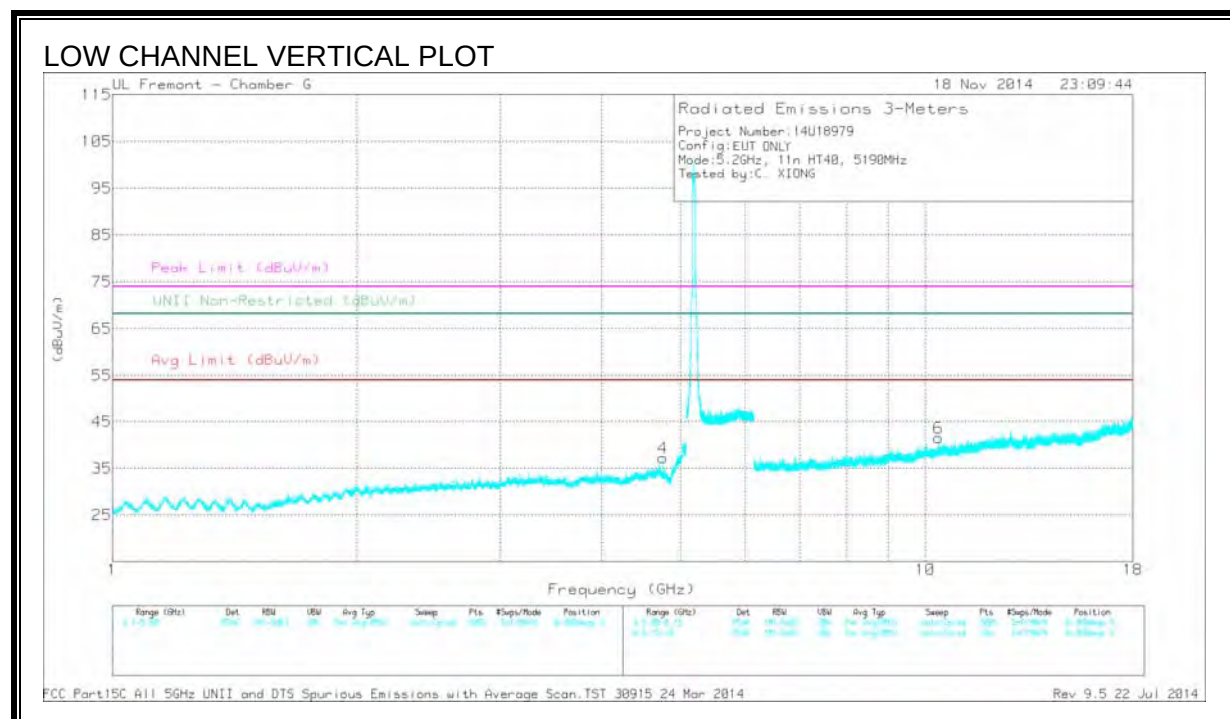
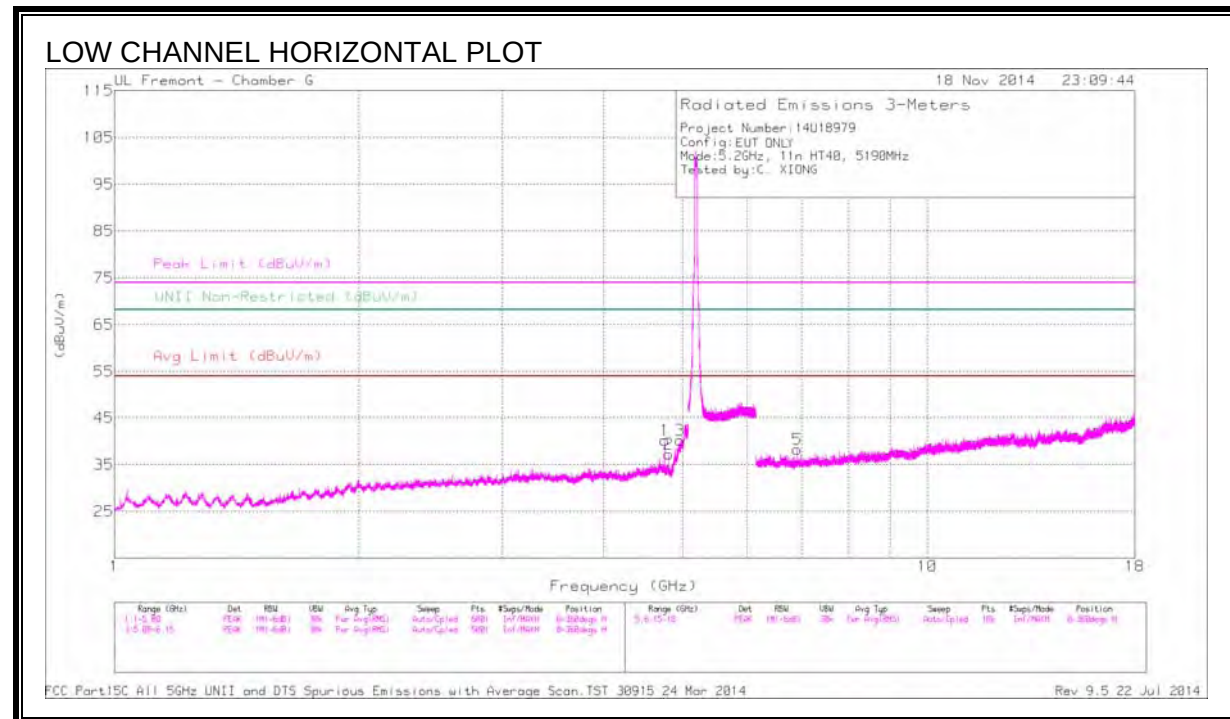


$$50.308 \text{ dB} + 0.12869337 = 50.43669337 \text{ dBuV}$$



$$48.467 \text{ dB} + 0.12869337 = 48.59569337 \text{ dBuV}$$

HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

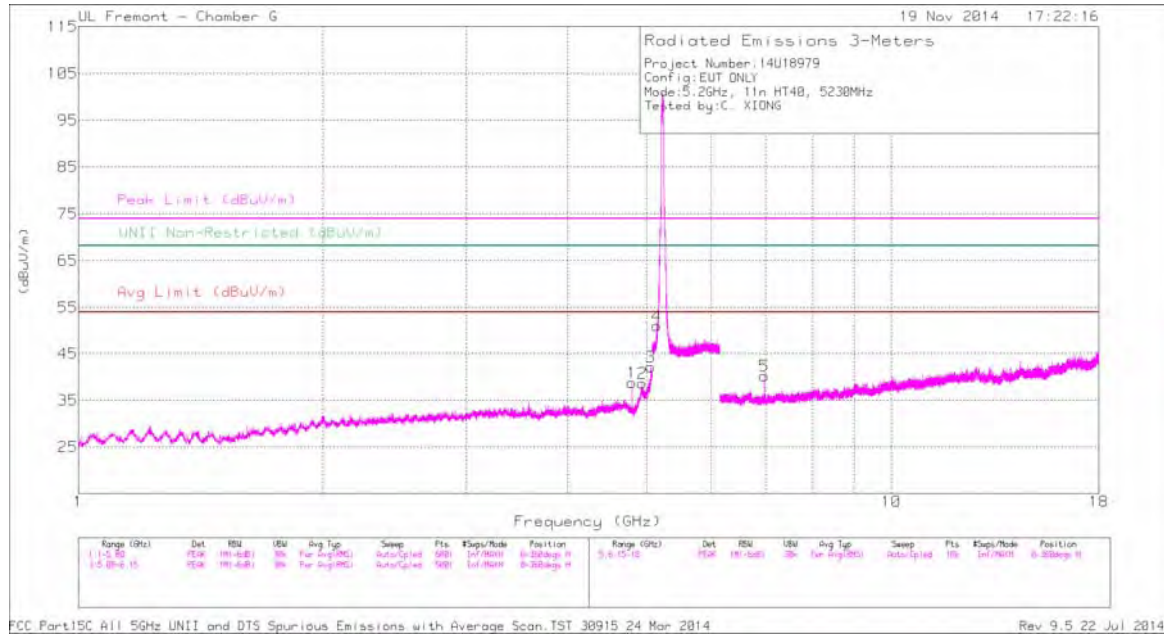
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.758	45.59	PK1	34.1	-32.8	0	46.89	-	-	74	-27.11	-	-	H
1	* 4.757	38.89	AD1	34.1	-32.8	.13	40.32	54	-13.68	-	-	-	-	H
2	* 4.802	42.58	PK1	34.1	-32.9	0	43.78	-	-	74	-30.22	-	-	H
2	* 4.802	31.27	AD1	34.1	-32.9	.13	32.60	54	-21.40	-	-	-	-	H
3	* 4.962	46.16	PK1	34.1	-31.8	0	48.46	-	-	74	-25.54	-	-	H
3	* 4.962	34.98	AD1	34.1	-31.8	.13	37.41	54	-16.59	-	-	-	-	H
4	* 4.757	44.44	PK1	34.1	-32.8	0	45.74	-	-	74	-28.26	-	-	V
4	* 4.757	35.64	AD1	34.1	-32.8	.13	37.07	54	-16.93	-	-	-	-	V
5	6.920	41.38	PK1	35.6	-31.9	0	45.08	-	-	-	-	68.2	-23.12	H
6	10.375	37.63	PK1	37.6	-27.2	0	48.03	-	-	-	-	68.2	-20.17	V

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

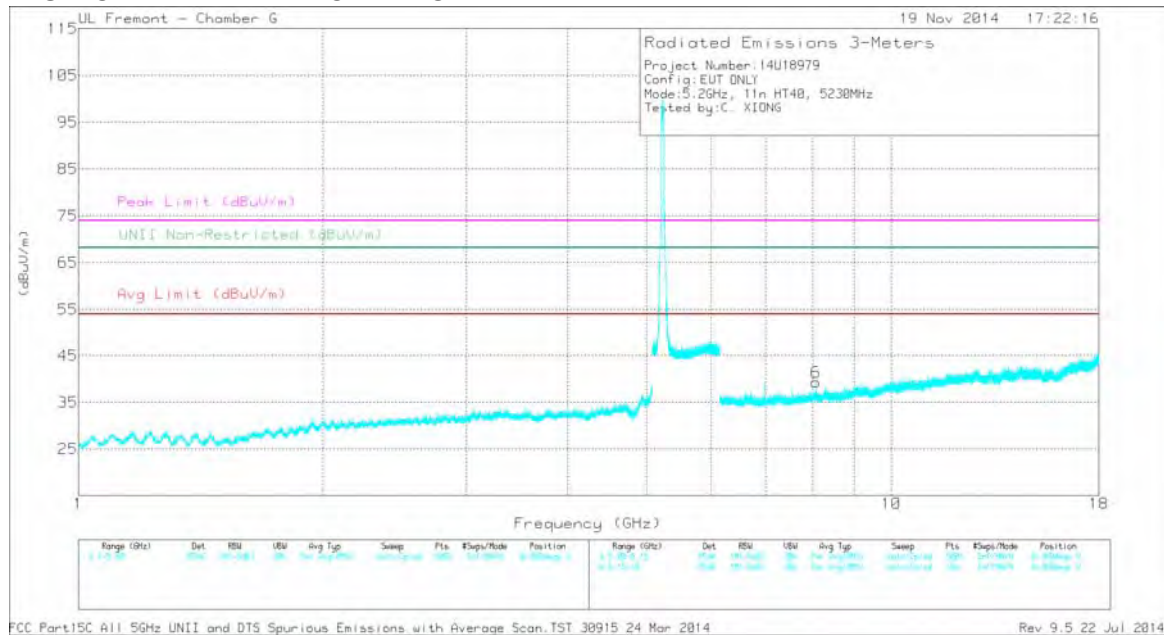
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

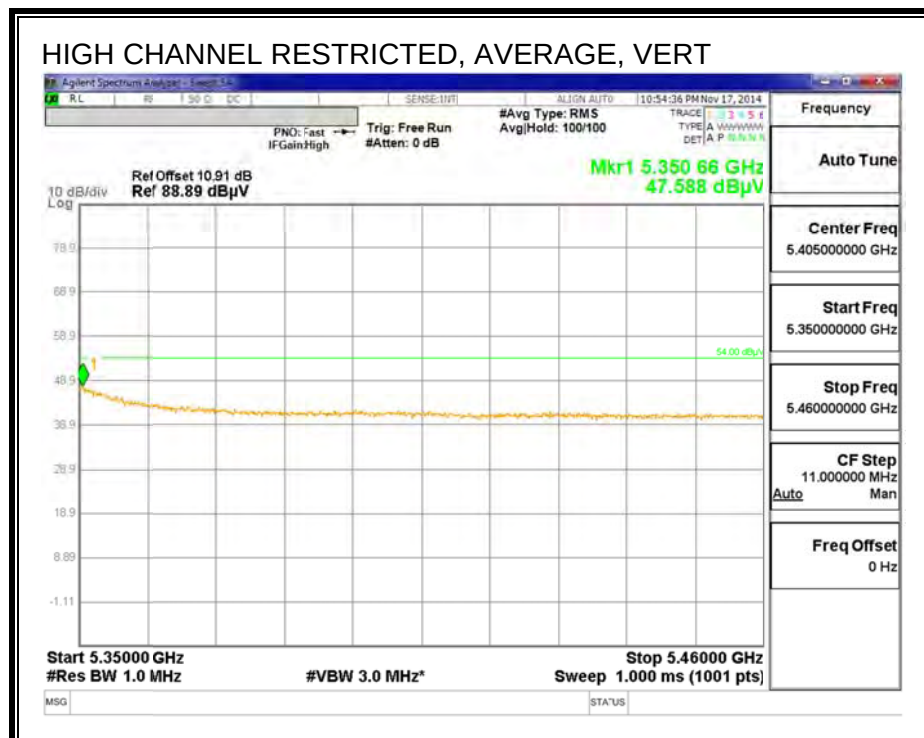
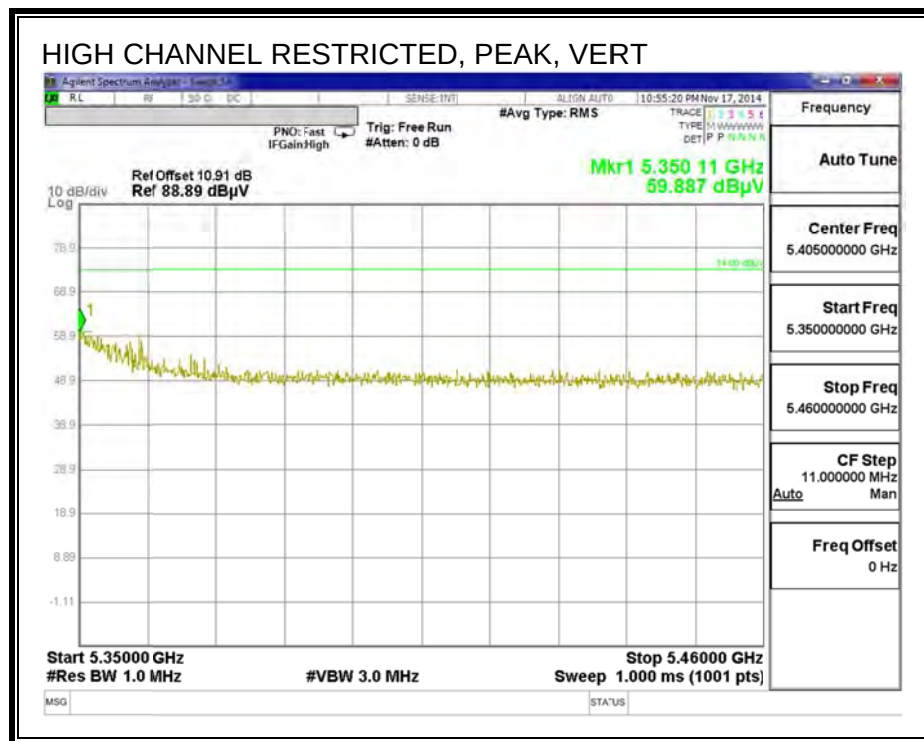
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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)	Polarity
1	* 4.794	43.71	PK1	34.1	-32.9	0	44.91	-	-	74	-29.09	-	-	H
1	* 4.794	35.97	AD1	34.1	-32.9	.13	37.30	54	-16.70	-	-	-	-	H
2	* 4.941	43.91	PK1	34.1	-31.7	0	46.31	-	-	74	-27.69	-	-	H
2	* 4.941	32.85	AD1	34.1	-31.7	.13	35.38	54	-18.62	-	-	-	-	H
3	* 5.063	46.27	PK1	34.2	-31.0	0	49.47	-	-	74	-24.53	-	-	H
3	* 5.065	34.53	AD1	34.2	-30.9	.13	37.96	54	-16.04	-	-	-	-	H
4	* 5.147	48.94	PK1	34.3	-23.6	0	59.64	-	-	74	-14.36	-	-	H
4	* 5.148	35.19	AD1	34.3	-23.6	.13	46.02	54	-7.98	-	-	-	-	H
6	* 8.071	38.66	PK1	35.8	-29.9	0	44.56	-	-	74	-29.44	-	-	V
6	* 8.072	27.36	AD1	35.8	-29.9	.13	33.39	54	-20.61	-	-	-	-	V
5	6.973	42.73	PK1	35.6	-31.7	0	46.63	-	-	-	-	68.2	-21.57	H

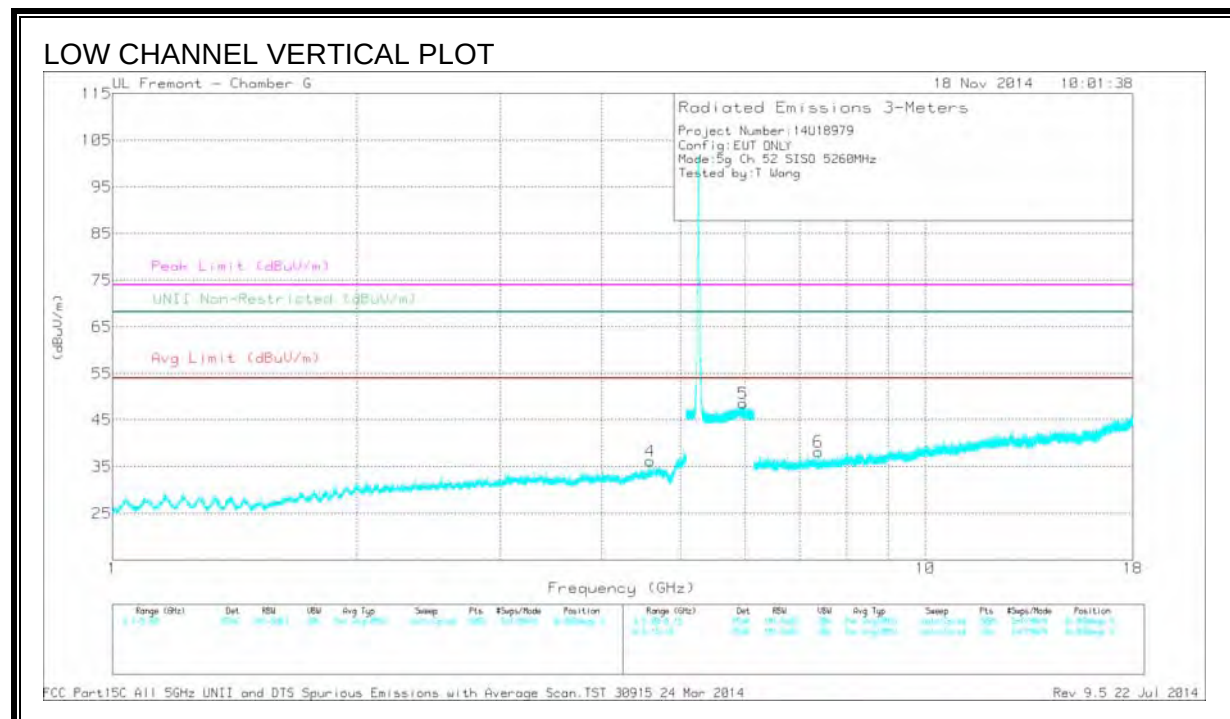
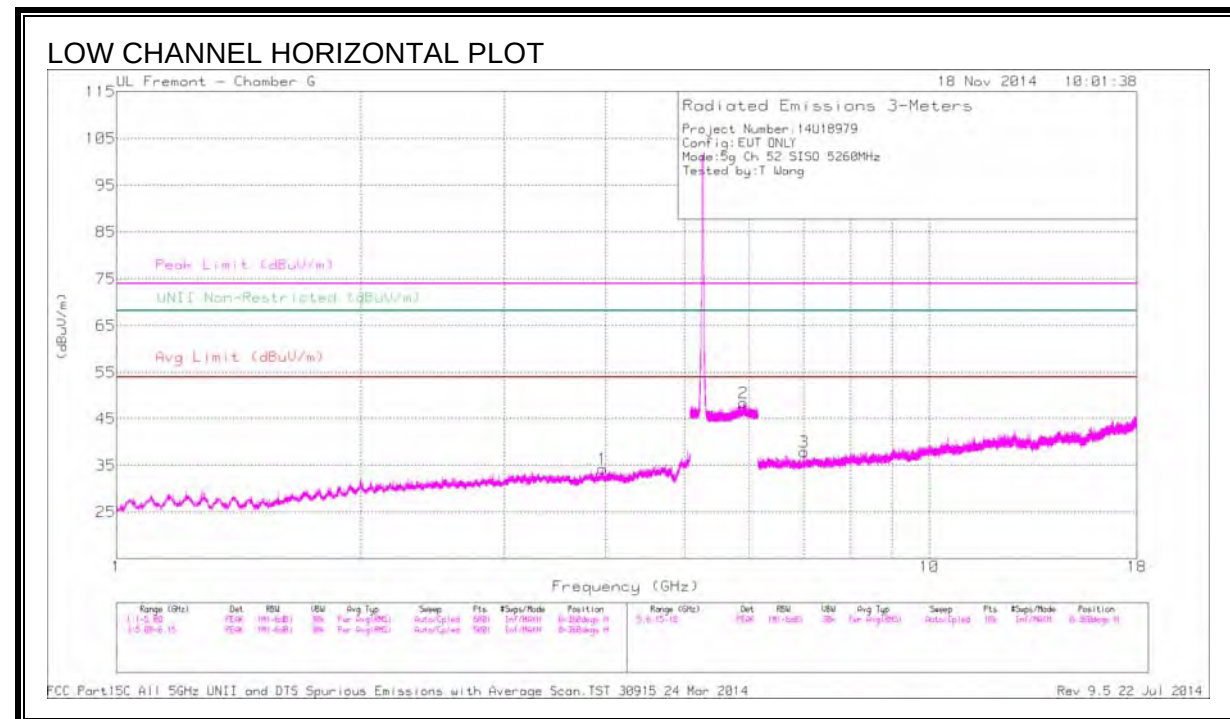
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average



HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

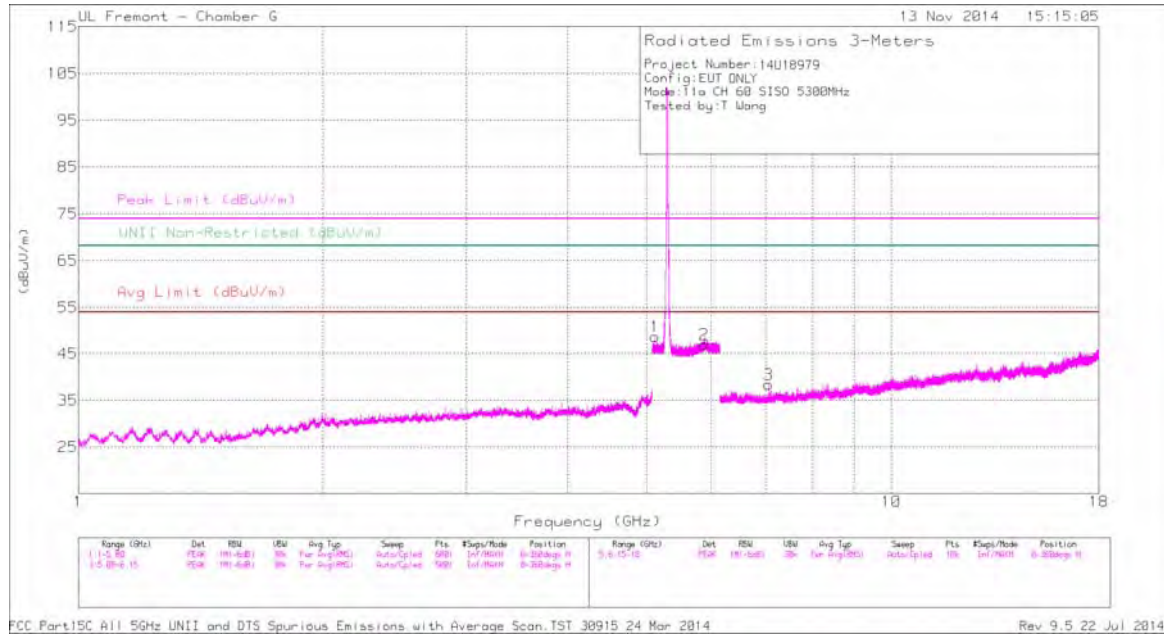
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 3.965	41.39	PK1	33.3	-33.6	41.09	-	-	74	-32.91	-	-	H
1	* 3.966	29.92	AD1	33.3	-33.6	29.62	54	-24.38	-	-	-	-	H
2	5.900	43.77	PK1	35.0	-23.6	55.17	-	-	-	-	68.2	-13.03	H
3	7.013	41.35	PK1	35.6	-31.6	45.35	-	-	-	-	68.2	-22.85	H
4	* 4.582	41.32	PK1	33.8	-32.8	42.32	-	-	74	-31.68	-	-	V
4	* 4.583	29.76	AD1	33.8	-32.8	30.76	54	-23.24	-	-	-	-	V
5	5.964	44.27	PK1	35.1	-23.6	55.77	-	-	-	-	68.2	-12.43	V
6	* 7.391	40.04	PK1	35.6	-31.3	44.34	-	-	74	-29.66	-	-	V
6	* 7.389	29.04	AD1	35.6	-31.3	33.34	54	-20.66	-	-	-	-	V

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

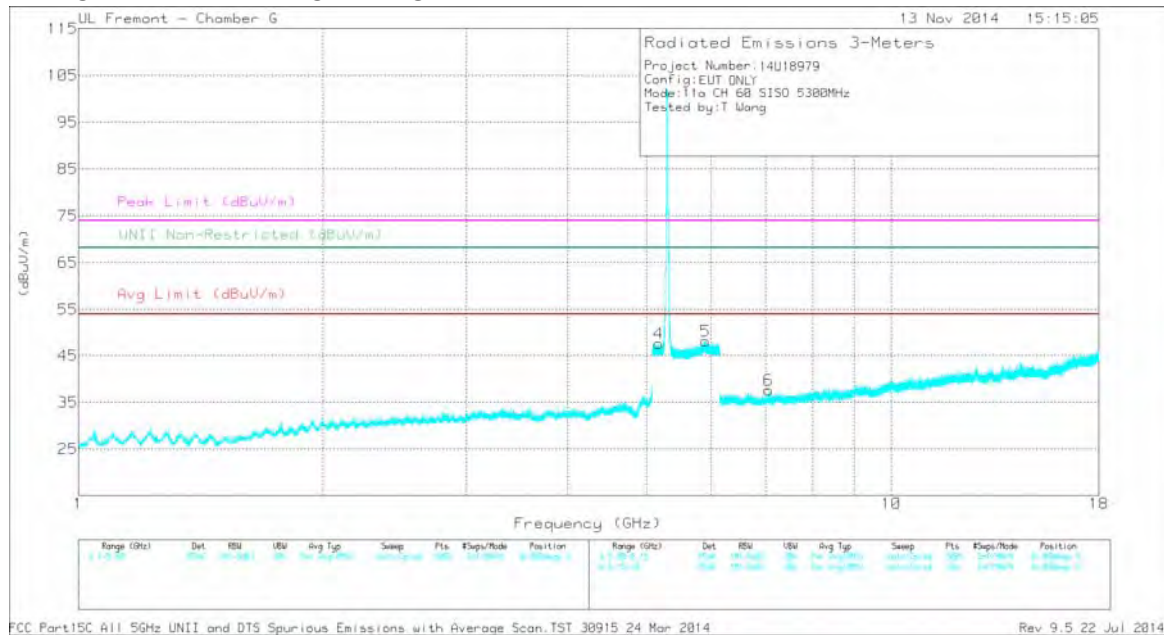
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

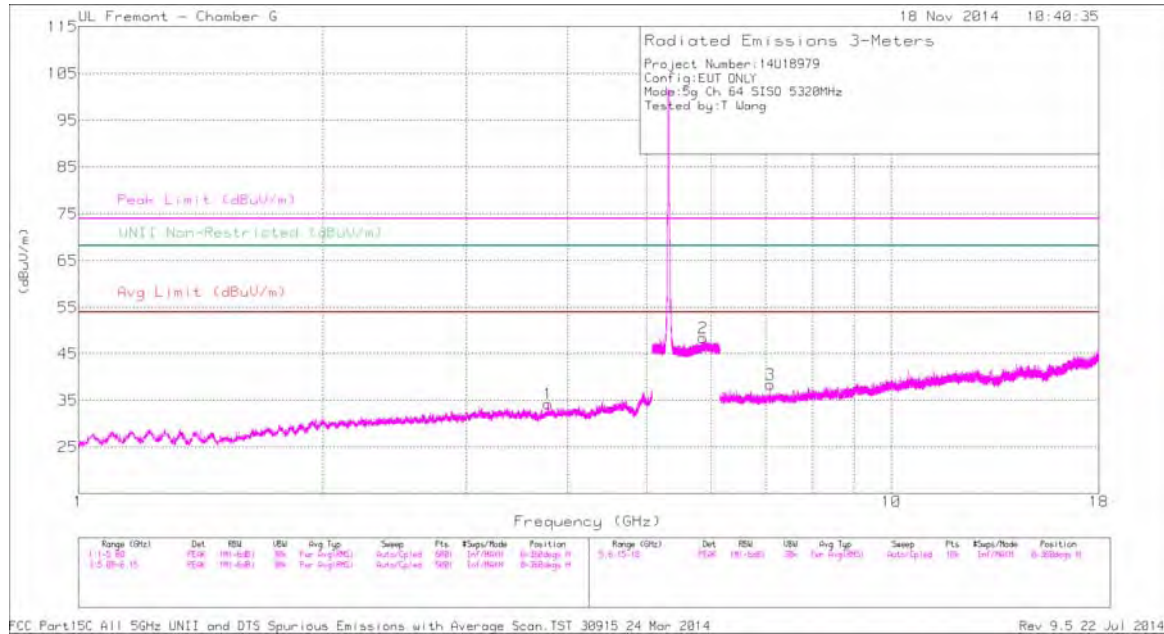
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 5.118	44.25	PK1	34.3	-23.6	54.95	-	-	74	-19.05	-	-	H
1	* 5.118	32.46	AD1	34.3	-23.6	43.16	54	-10.84	-	-	-	-	H
2	5.885	44.16	PK1	35.0	-23.6	55.56	-	-	-	-	68.2	-12.64	H
3	7.067	40.56	PK1	35.6	-31.8	44.36	-	-	-	-	68.2	-23.84	H
4	5.173	43.91	PK1	34.4	-23.7	54.61	-	-	-	-	68.2	-13.59	V
5	5.905	44.12	PK1	35.0	-23.6	55.52	-	-	-	-	68.2	-12.68	V
6	7.067	41.91	PK1	35.6	-31.8	45.71	-	-	-	-	68.2	-22.49	V

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

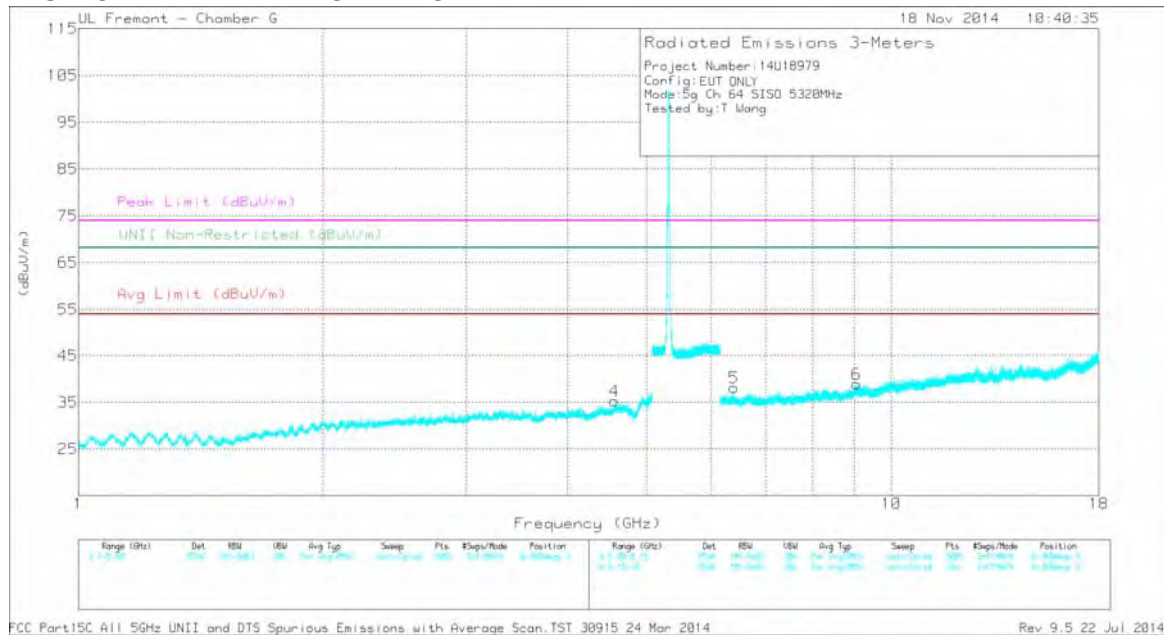
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (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)	Polarity
1	* 3.782	41.56	PK1	33.0	-33.5	41.06	-	-	74	-32.94	-	-	H
1	* 3.781	30.10	AD1	33.0	-33.5	29.60	54	-24.4	-	-	-	-	H
2	5.866	44.45	PK1	35.0	-23.6	55.85	-	-	-	-	68.2	-12.35	H
3	7.094	40.39	PK1	35.6	-31.6	44.39	-	-	-	-	68.2	-23.81	H
4	* 4.568	41.47	PK1	33.8	-32.7	42.57	-	-	74	-31.43	-	-	V
4	* 4.567	29.59	AD1	33.8	-32.7	30.69	54	-23.31	-	-	-	-	V
5	6.404	40.86	PK1	35.6	-31.9	44.56	-	-	-	-	68.2	-23.64	V
6	* 9.057	37.84	PK1	36.4	-28.2	46.04	-	-	74	-27.96	-	-	V
6	* 9.059	27.15	AD1	36.4	-28.2	35.35	54	-18.65	-	-	-	-	V

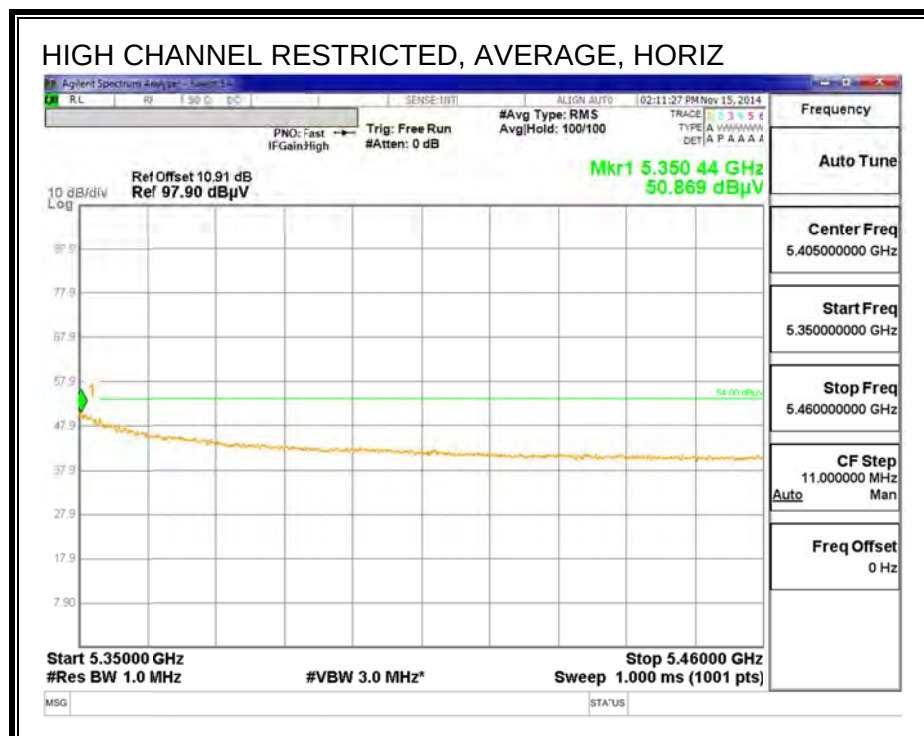
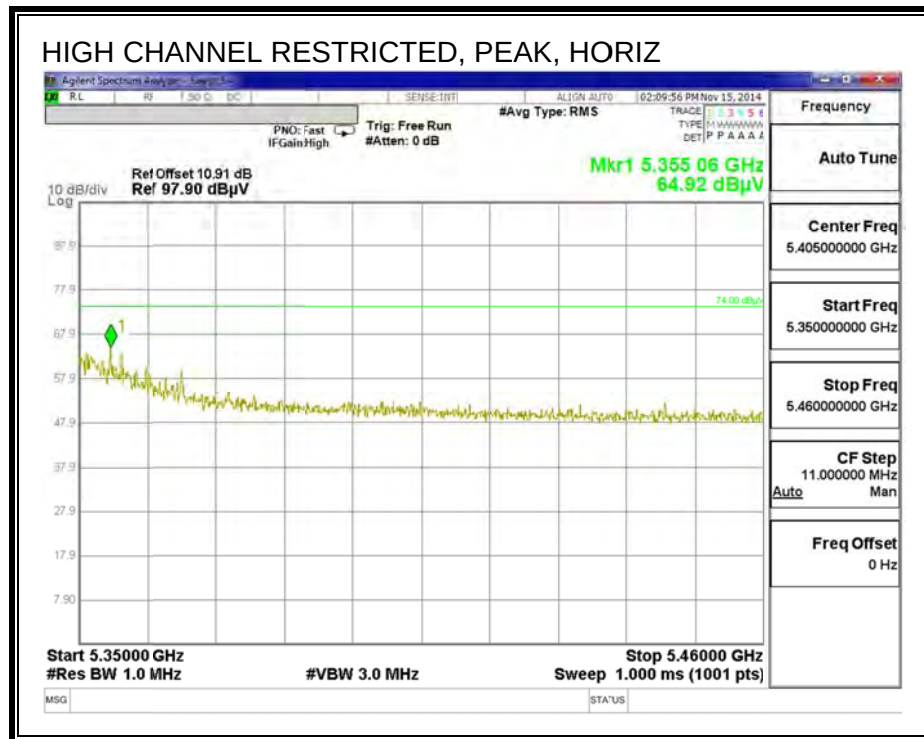
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

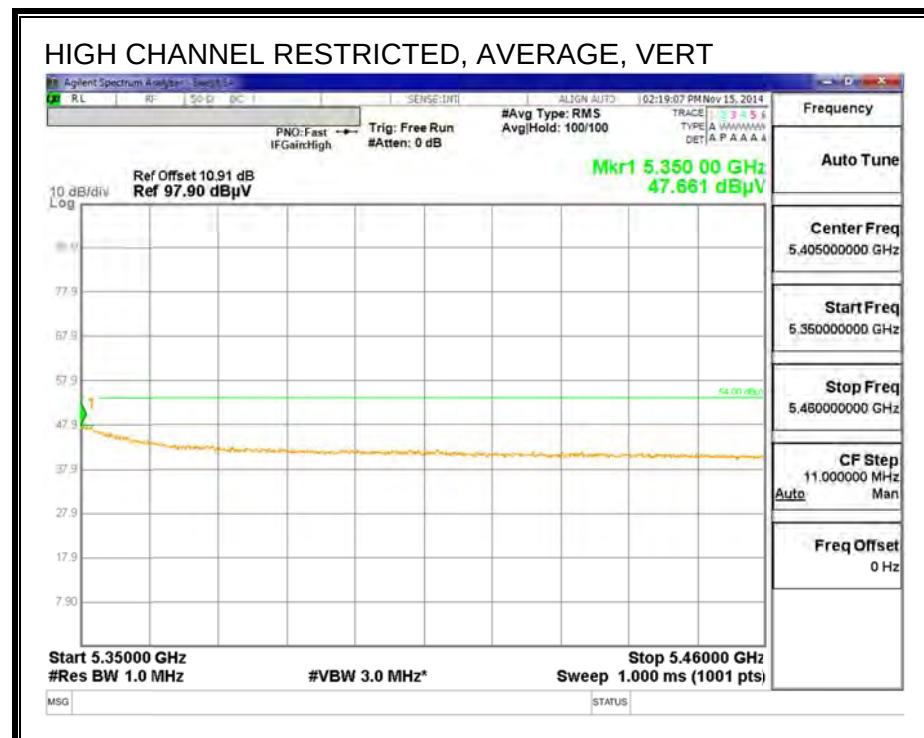
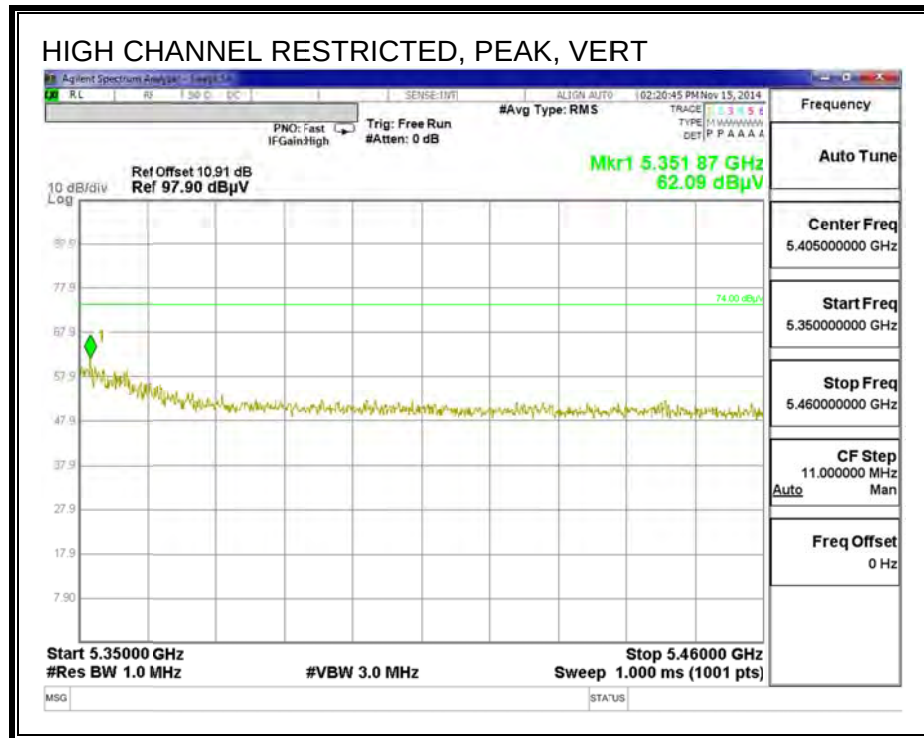
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

RESTRICTED BANEDGE (HIGH CHANNEL)



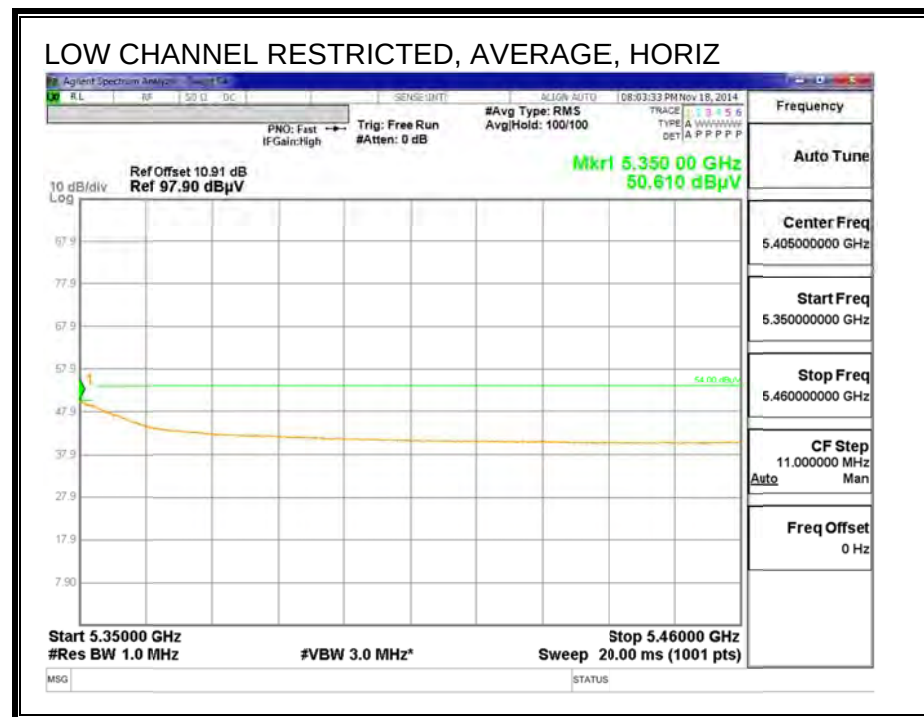
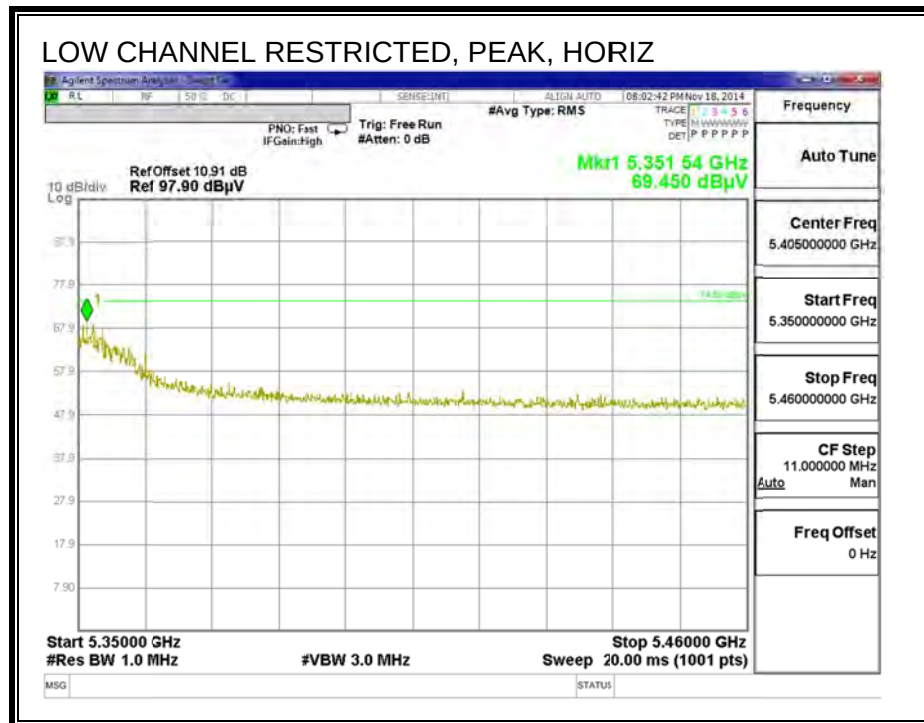


HARMONICS AND SPURIOUS EMISSIONS

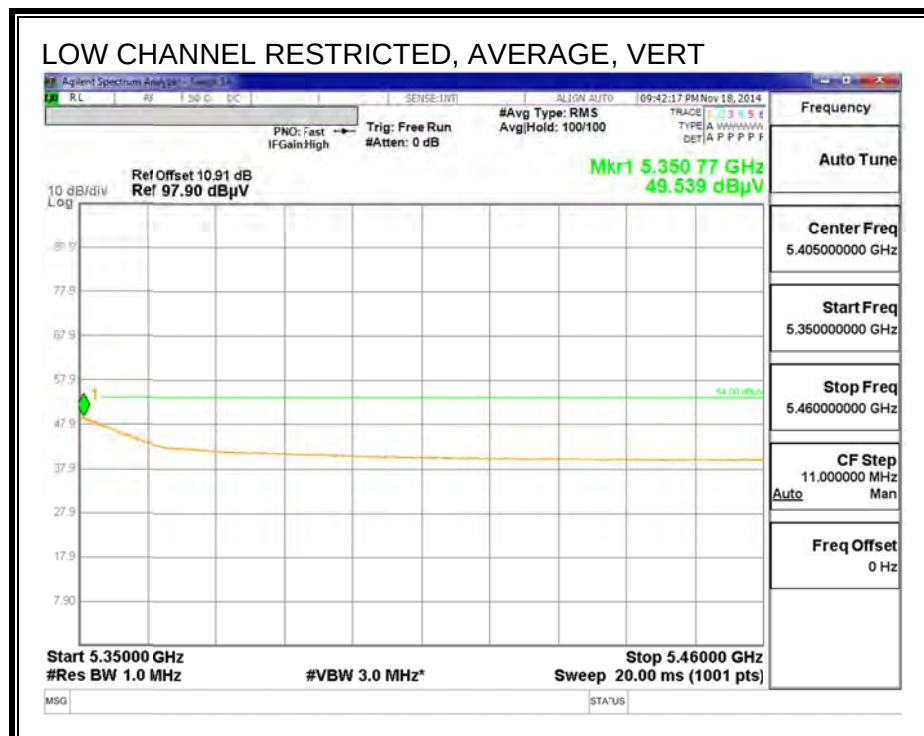
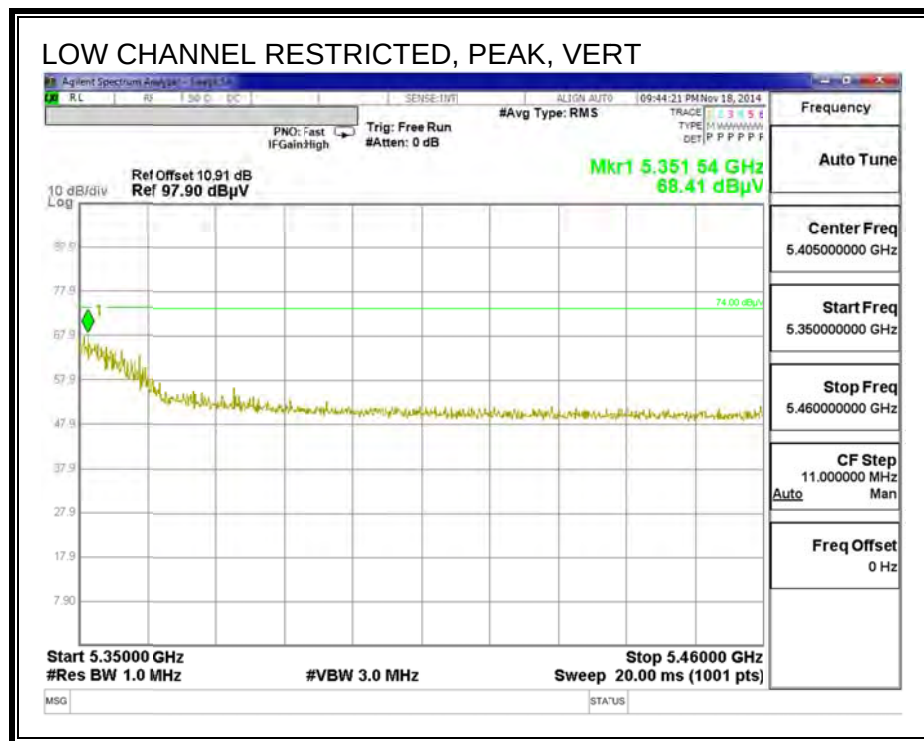
Note: this test is covered on by testing to 11a 1Tx Mode.

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

RESTRICTED BANEDGE (LOW CHANNEL)

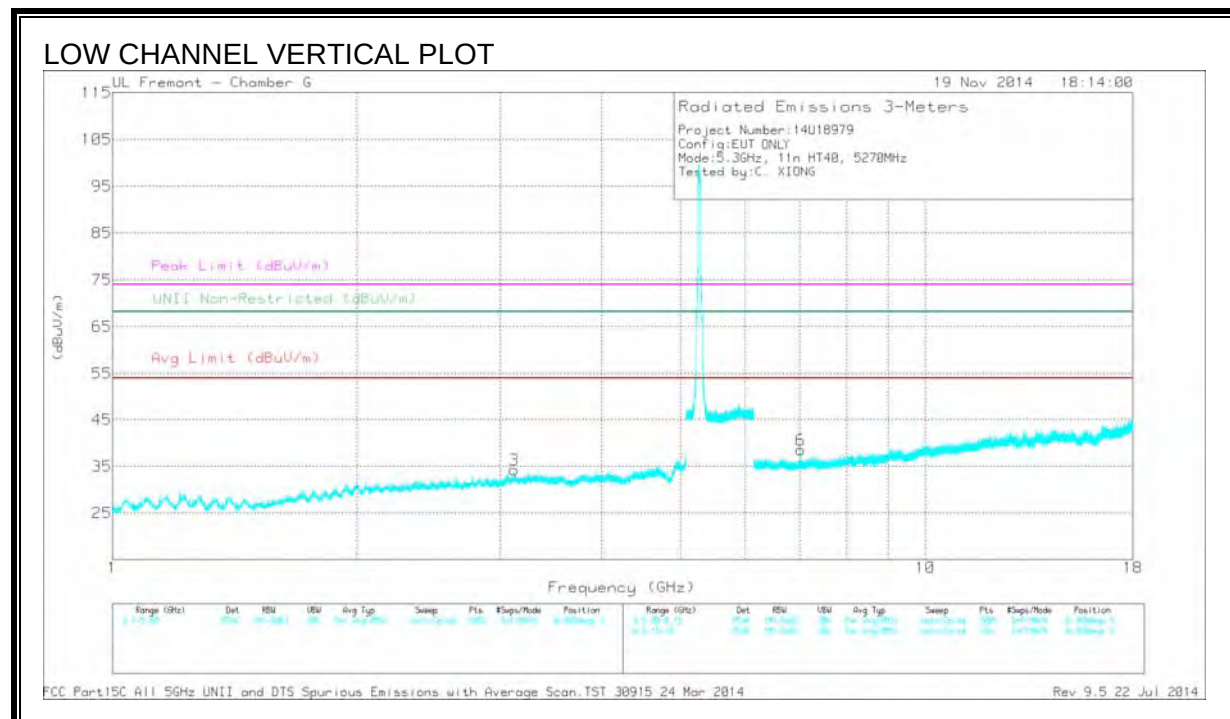
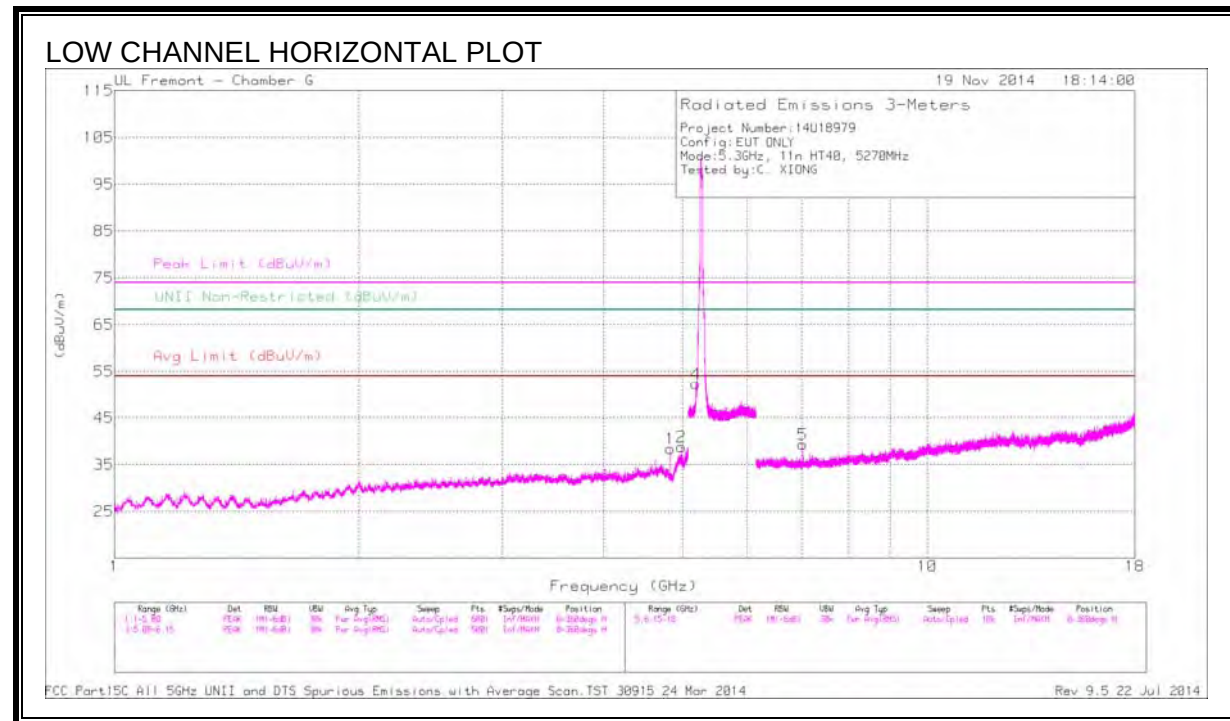


$$50.610 \text{ dB} + 0.12869337 = 50.73869337 \text{ dBuV}$$



$$49.539 \text{ dB} + 0.12869337 = 49.66769337 \text{ dBuV}$$

HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

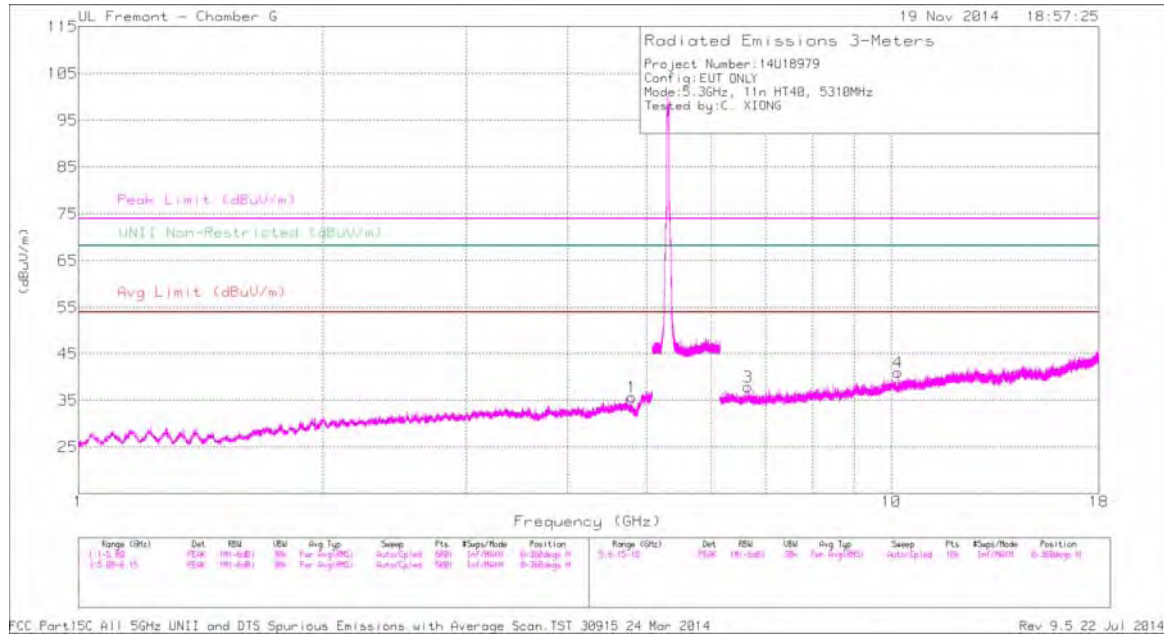
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.831	43.12	PK1	34.1	-32.6	0	44.62	-	-	74	-29.38	-	-	H
1	* 4.831	35.03	AD1	34.1	-32.6	.13	36.66	54	-17.34	-	-	-	-	H
2	* 4.985	43.43	PK1	34.1	-31.9	0	45.63	-	-	74	-28.37	-	-	H
2	* 4.985	32.29	AD1	34.1	-31.9	.13	34.62	54	-19.38	-	-	-	-	H
3	3.119	41.83	PK1	32.7	-33.1	0	41.43	-	-	-	-	68.2	-26.77	V
4	5.188	48.57	PK1	34.4	-23.6	0	59.37	-	-	-	-	68.2	-8.83	H
5	7.026	41.59	PK1	35.6	-31.7	0	45.49	-	-	-	-	68.2	-22.71	V
6	7.027	41.98	PK1	35.6	-31.7	0	45.88	-	-	-	-	68.2	-22.32	H

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

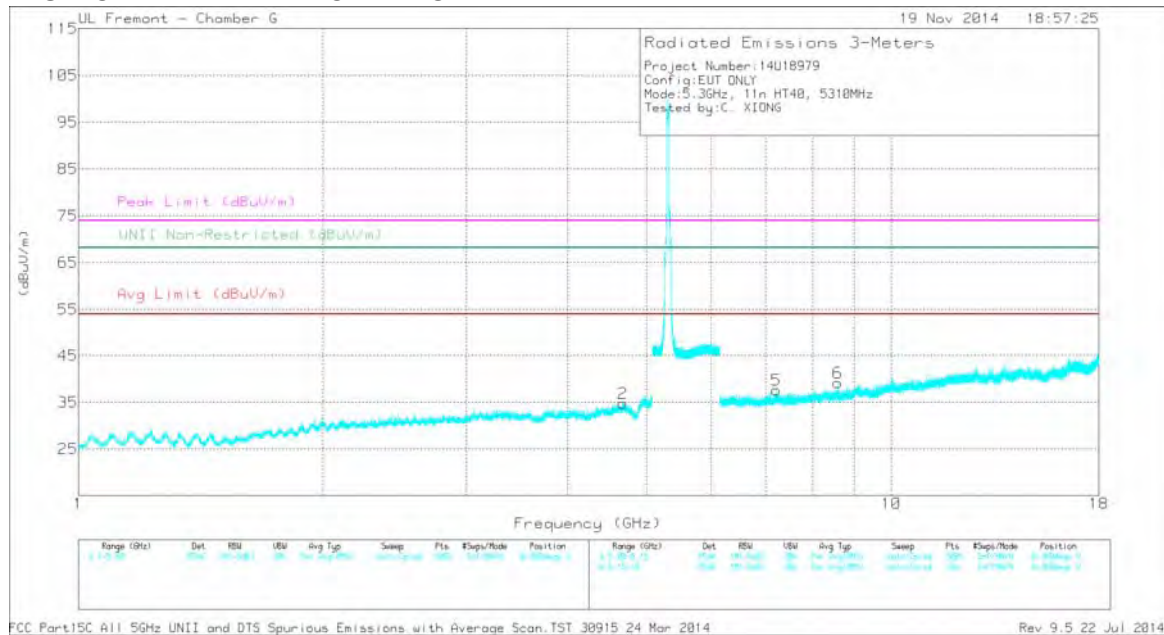
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average.

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT862 (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)	Polarity
1	* 4.797	40.64	PK1	34.1	-32.9	0	41.84	-	-	74	-32.16	-	-	H
1	* 4.797	29.94	AD1	34.1	-32.9	.13	31.27	54	-22.73	-	-	-	-	H
2	* 4.676	41.51	PK1	34.0	-33.0	0	42.51	-	-	74	-31.49	-	-	V
2	* 4.677	30.43	AD1	34.0	-33.0	.13	31.56	54	-22.44	-	-	-	-	V
3	6.662	39.65	PK1	35.6	-31.5	0	43.75	-	-	-	-	68.2	-24.45	H
4	10.193	36.38	PK1	37.5	-28.0	0	45.88	-	-	-	-	68.2	-22.32	H
5	7.224	40.00	PK1	35.6	-31.0	0	44.6	-	-	-	-	68.2	-23.60	V
6	8.593	38.52	PK1	35.9	-28.9	0	45.52	-	-	-	-	68.2	-22.68	V

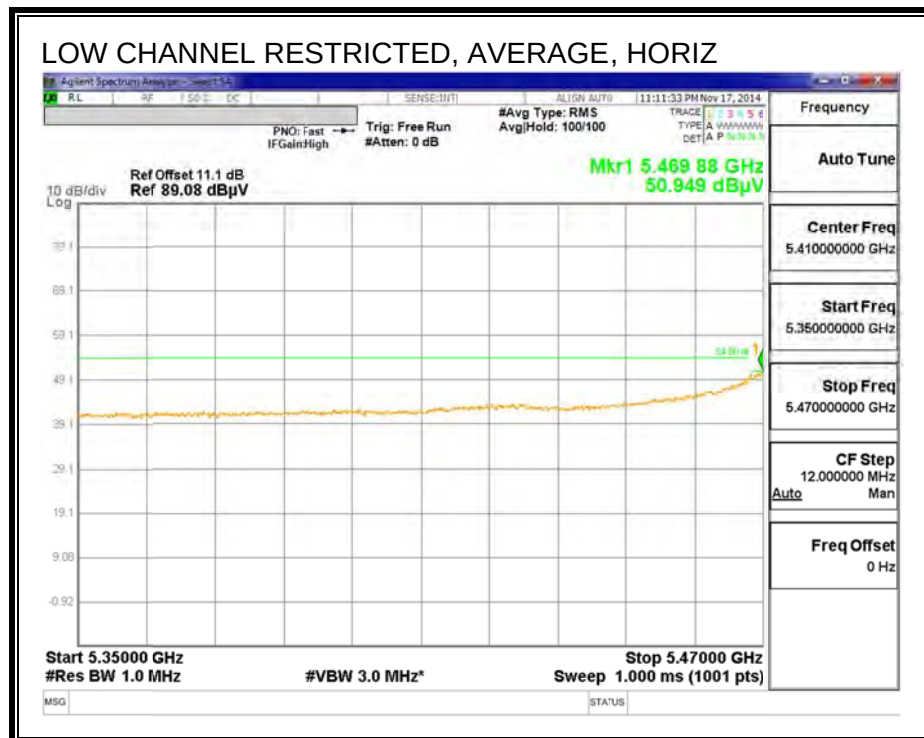
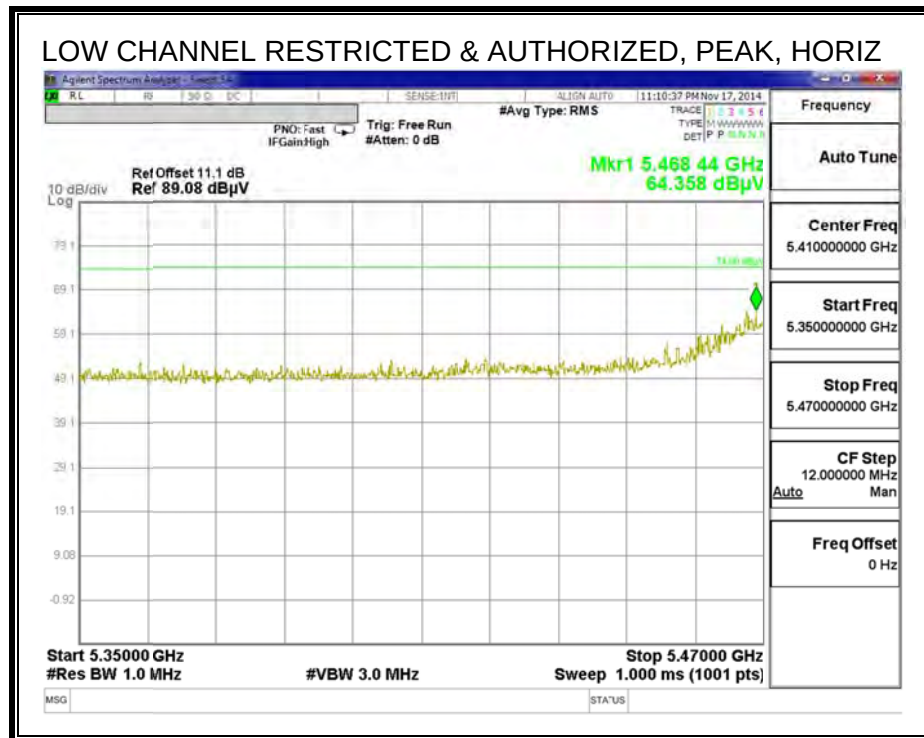
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

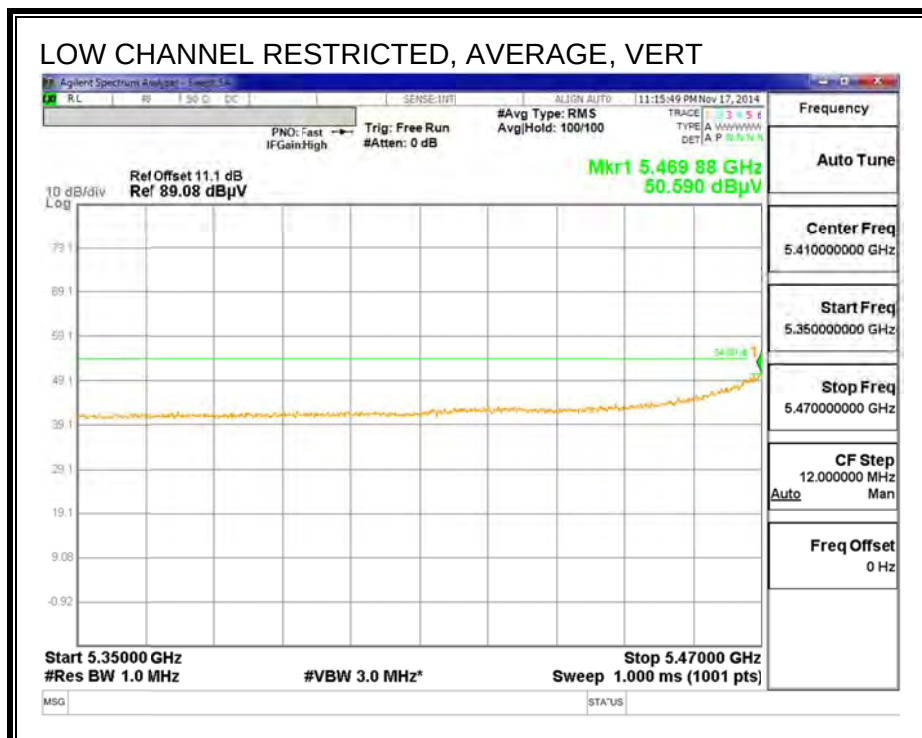
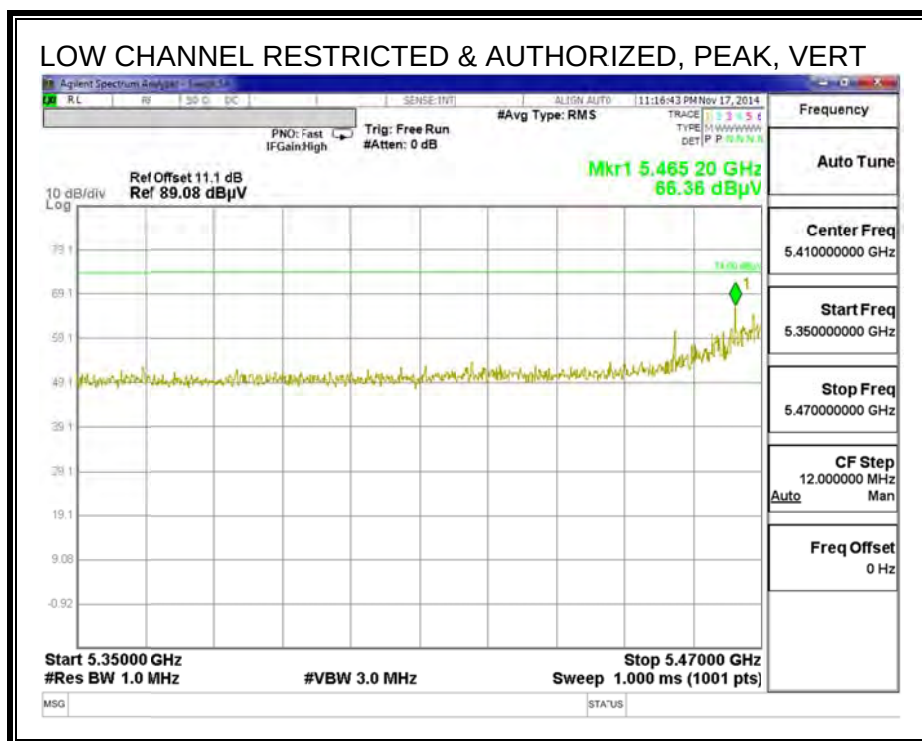
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

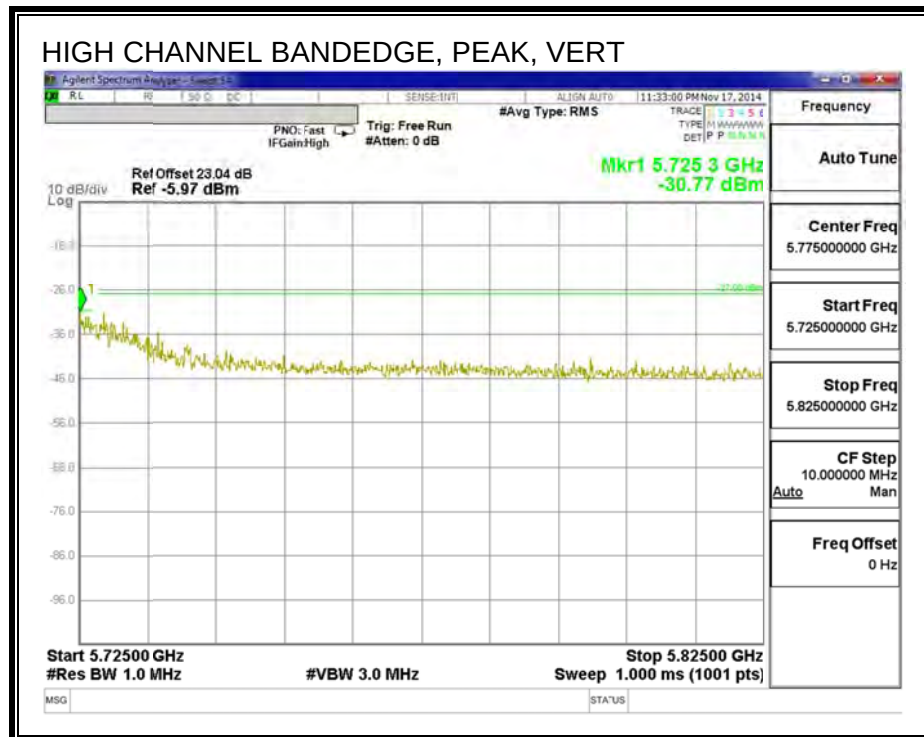
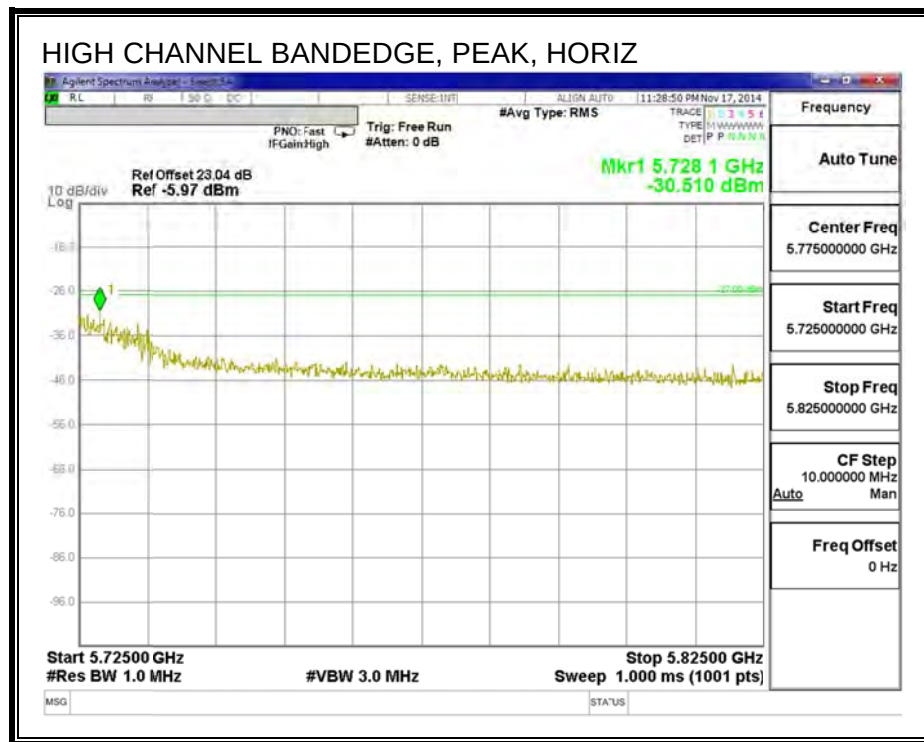
10.2.7. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

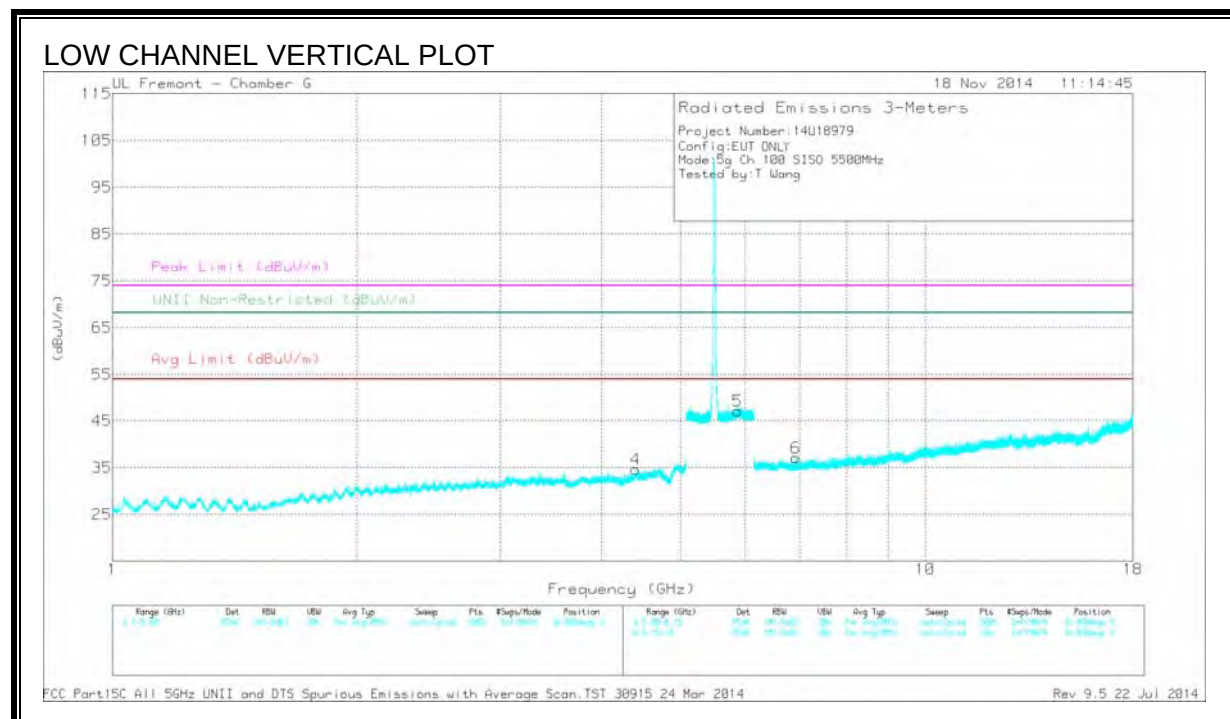
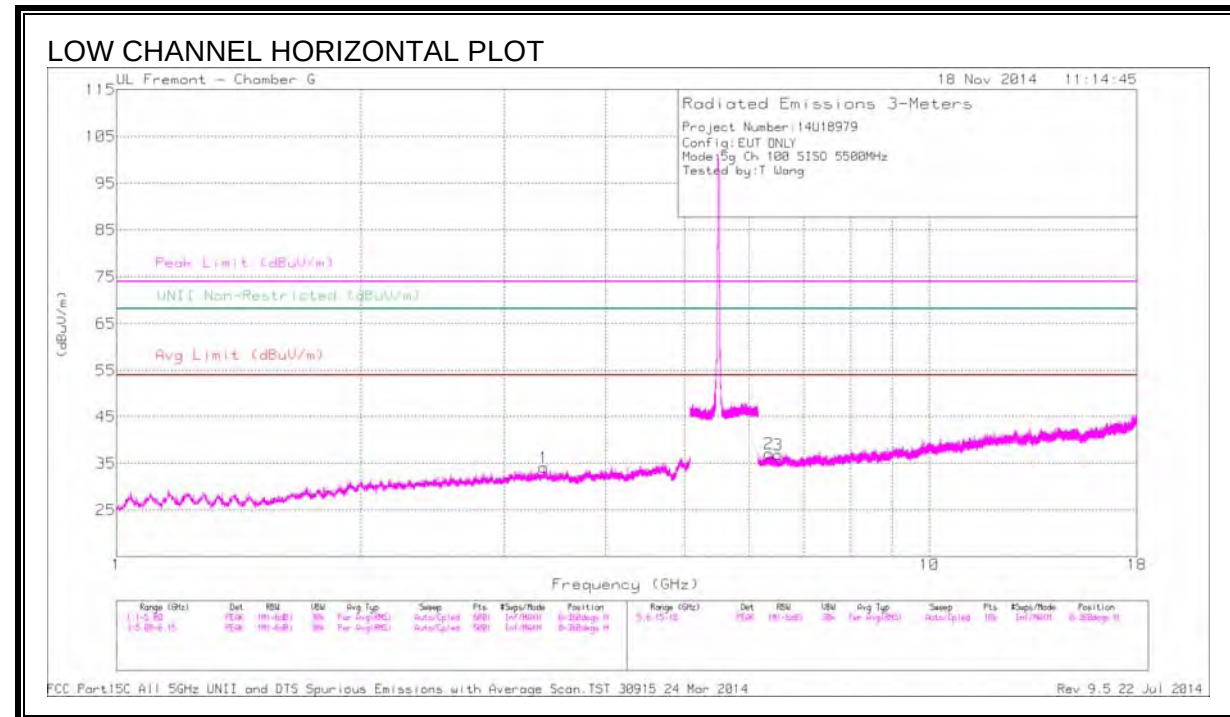




AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

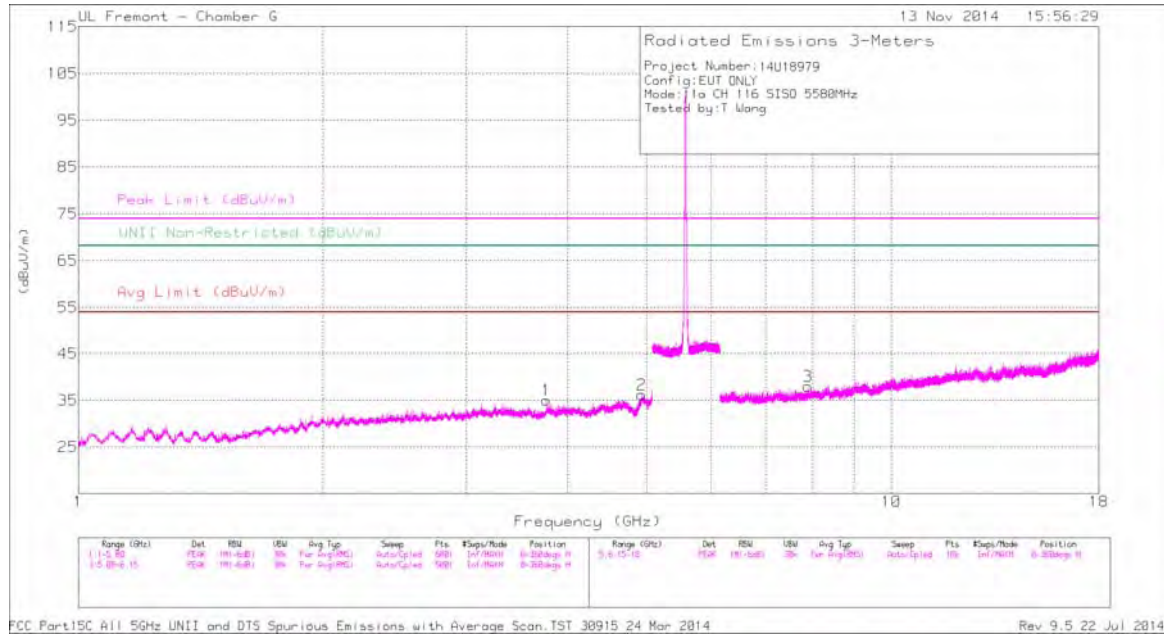
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 3.355	41.57	PK1	32.9	-33.1	41.37	-	-	74	-32.63	-	-	H
1	* 3.357	29.94	AD1	32.9	-33.2	29.64	54	-24.36	-	-	-	-	H
2	6.348	40.97	PK1	35.7	-32.4	44.27	-	-	-	-	68.2	-23.93	H
3	6.515	40.71	PK1	35.6	-32.4	43.91	-	-	-	-	68.2	-24.29	H
4	4.401	41.24	PK1	33.6	-32.5	42.34	-	-	-	-	68.2	-25.86	V
5	5.873	43.53	PK1	35.0	-23.6	54.93	-	-	-	-	68.2	-13.27	V
6	6.936	40.30	PK1	35.6	-32.0	43.90	-	-	-	-	68.2	-24.30	V

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

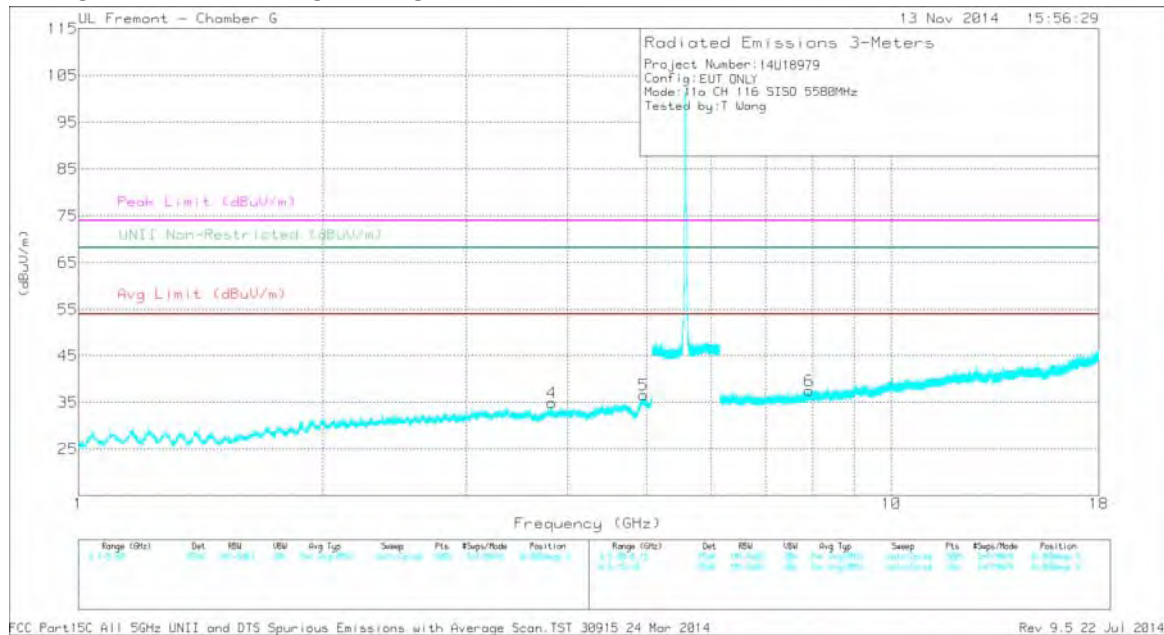
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

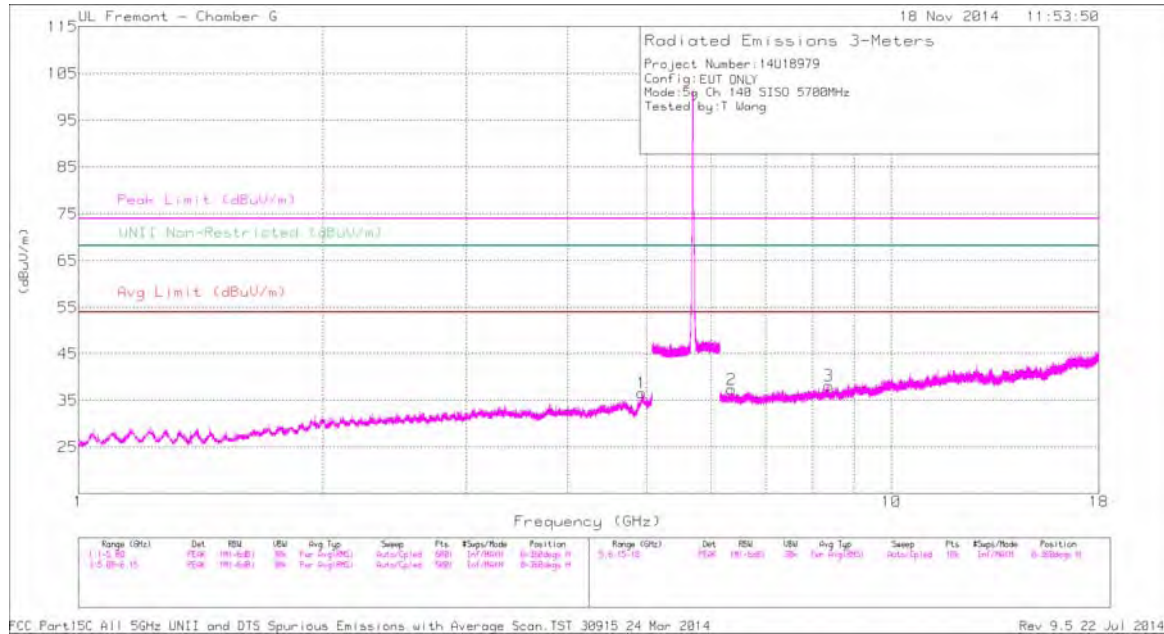
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 3.764	41.01	PK1	32.9	-33.3	40.61	-	-	74	-33.39	-	-	H
1	* 3.766	29.69	AD1	32.9	-33.4	29.19	54	-24.81	-	-	-	-	H
2	* 4.930	41.25	PK1	34.1	-31.7	43.65	-	-	74	-30.35	-	-	H
2	* 4.931	30.16	AD1	34.1	-31.7	32.56	54	-21.44	-	-	-	-	H
3	7.897	39.16	PK1	35.8	-30.6	44.36	-	-	-	-	68.2	-23.84	H
4	* 3.821	41.56	PK1	33.0	-33.2	41.36	-	-	74	-32.64	-	-	V
4	* 3.821	30.12	AD1	33.0	-33.2	29.92	54	-24.08	-	-	-	-	V
5	* 4.952	40.93	PK1	34.1	-31.9	43.13	-	-	74	-30.87	-	-	V
5	* 4.954	30.37	AD1	34.1	-31.9	32.57	54	-21.43	-	-	-	-	V
6	7.917	39.30	PK1	35.8	-30.8	44.30	-	-	-	-	68.2	-23.90	V

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

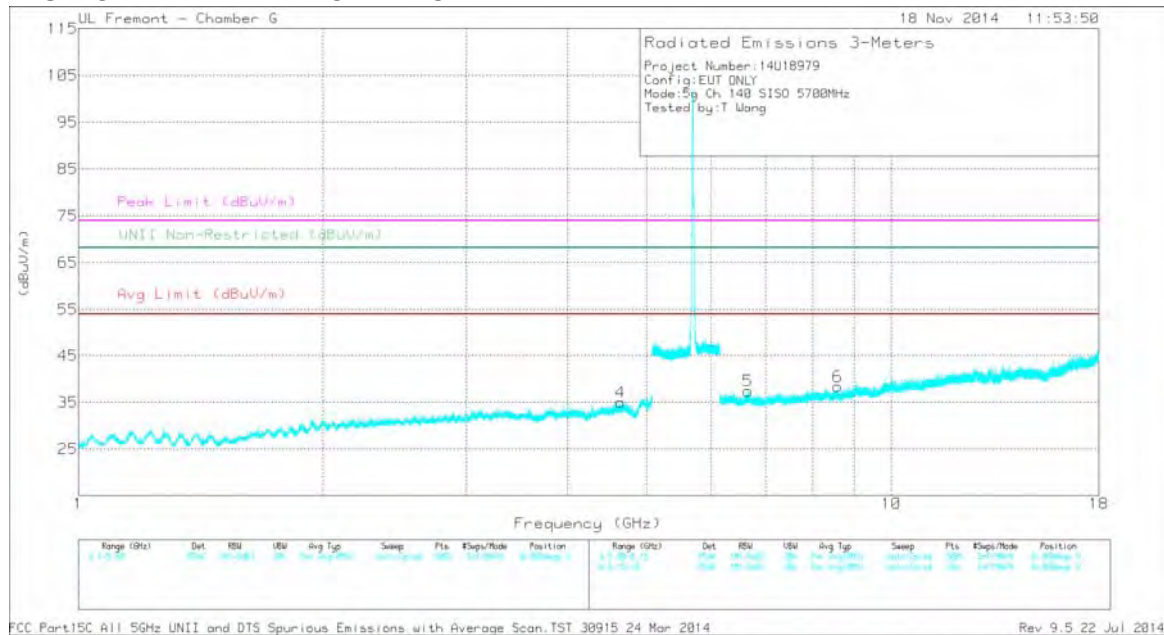
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (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)	Polarity
1	* 4.934	41.10	PK1	34.1	-31.7	43.50	-	-	74	-30.5	-	-	H
1	* 4.932	29.71	AD1	34.1	-31.7	32.11	54	-21.89	-	-	-	-	H
2	6.357	41.05	PK1	35.7	-32.3	44.45	-	-	-	-	68.2	-23.75	H
3	* 8.375	38.81	PK1	35.8	-29.6	45.01	-	-	74	-28.99	-	-	H
3	* 8.377	27.95	AD1	35.8	-29.7	34.05	54	-19.95	-	-	-	-	H
4	* 4.645	41.05	PK1	33.9	-33.0	41.95	-	-	74	-32.05	-	-	V
4	* 4.644	29.80	AD1	33.9	-33.0	30.70	54	-23.30	-	-	-	-	V
5	6.660	40.12	PK1	35.6	-31.5	44.22	-	-	-	-	68.2	-23.98	V
6	8.585	38.44	PK1	35.9	-28.9	45.44	-	-	-	-	68.2	-22.76	V

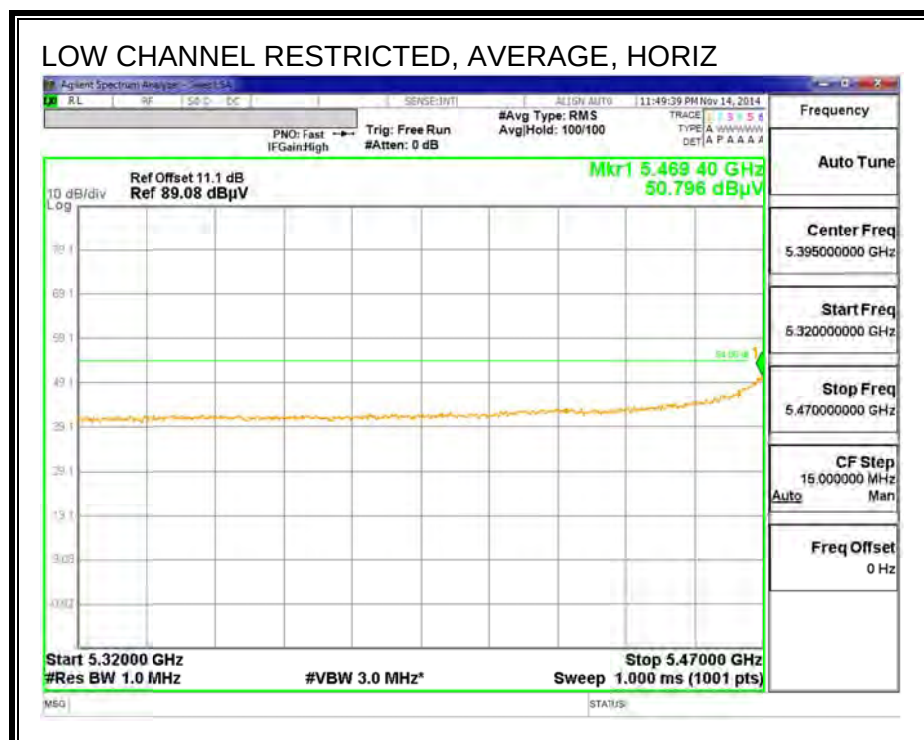
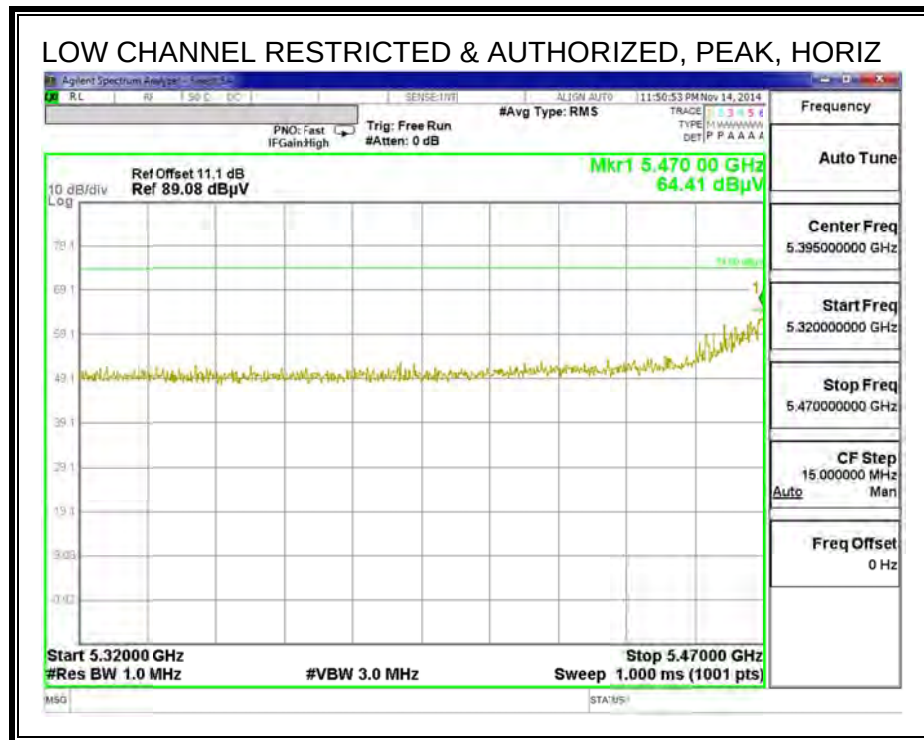
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

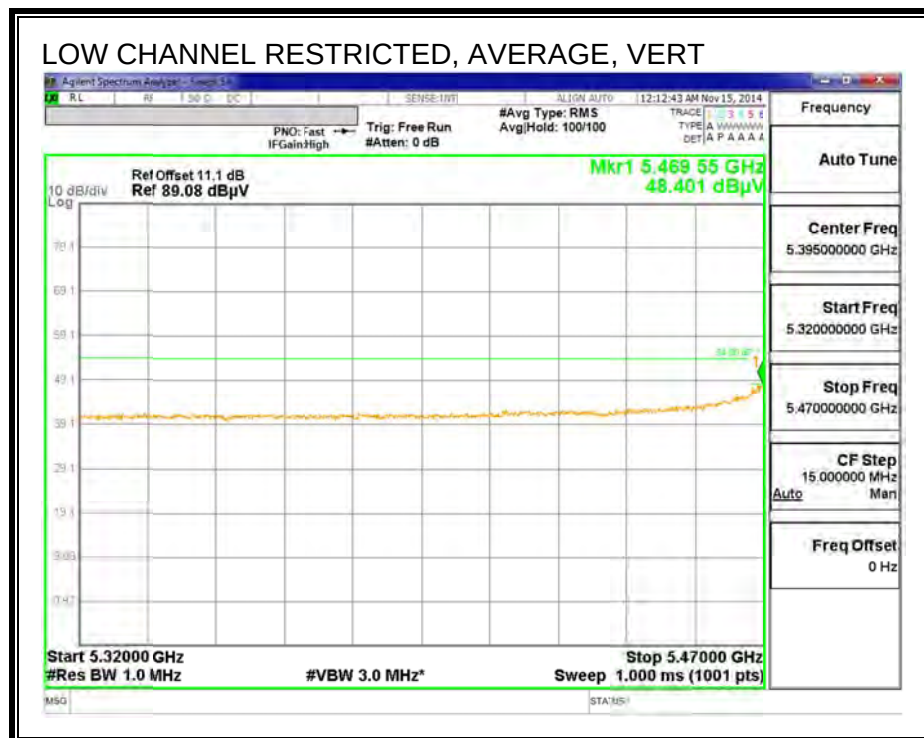
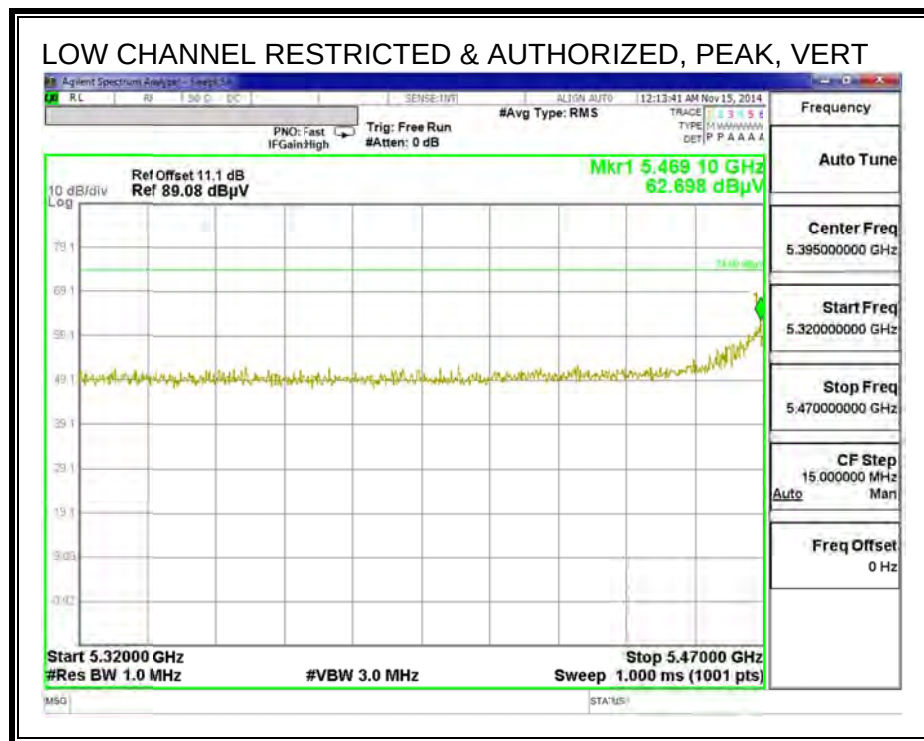
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

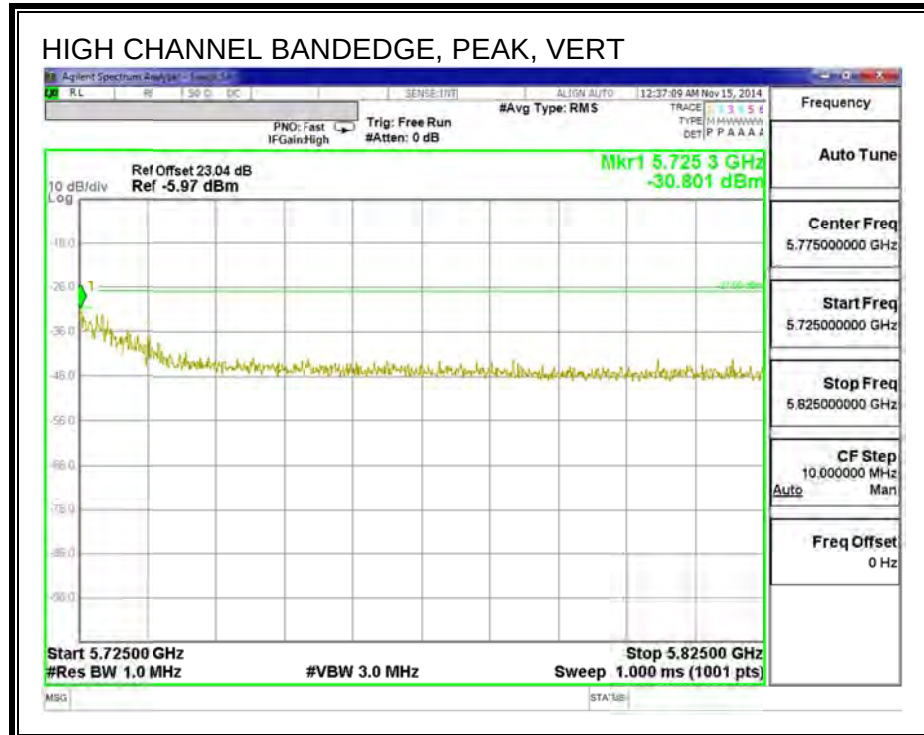
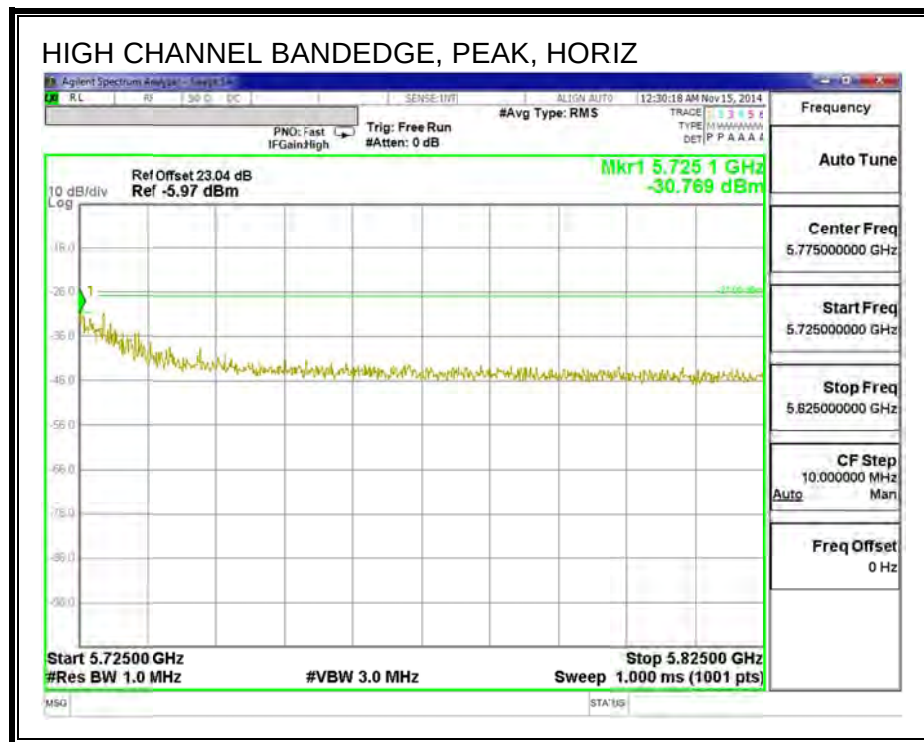
10.2.8. TX ABOVE 1 GHz 802.11n HT20 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





AUTHORIZED BANDEDGE (HIGH CHANNEL)

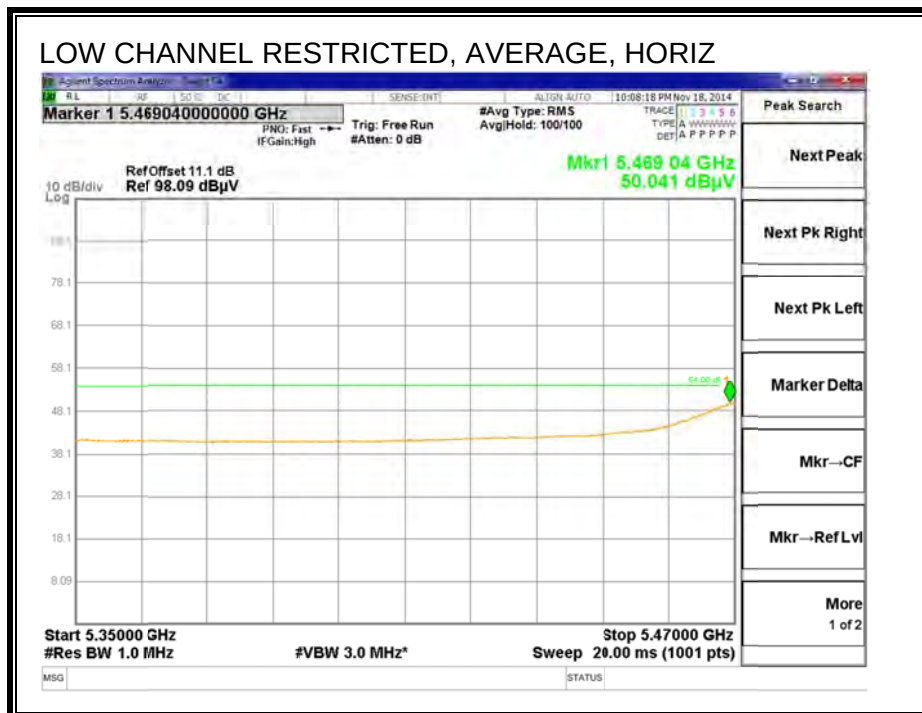
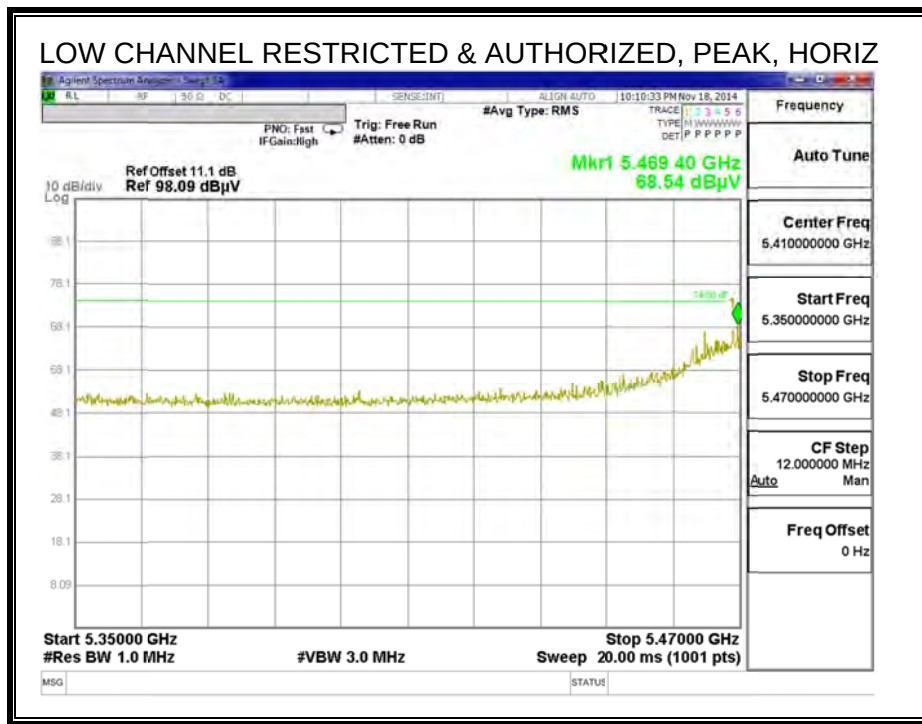


HARMONICS AND SPURIOUS EMISSIONS

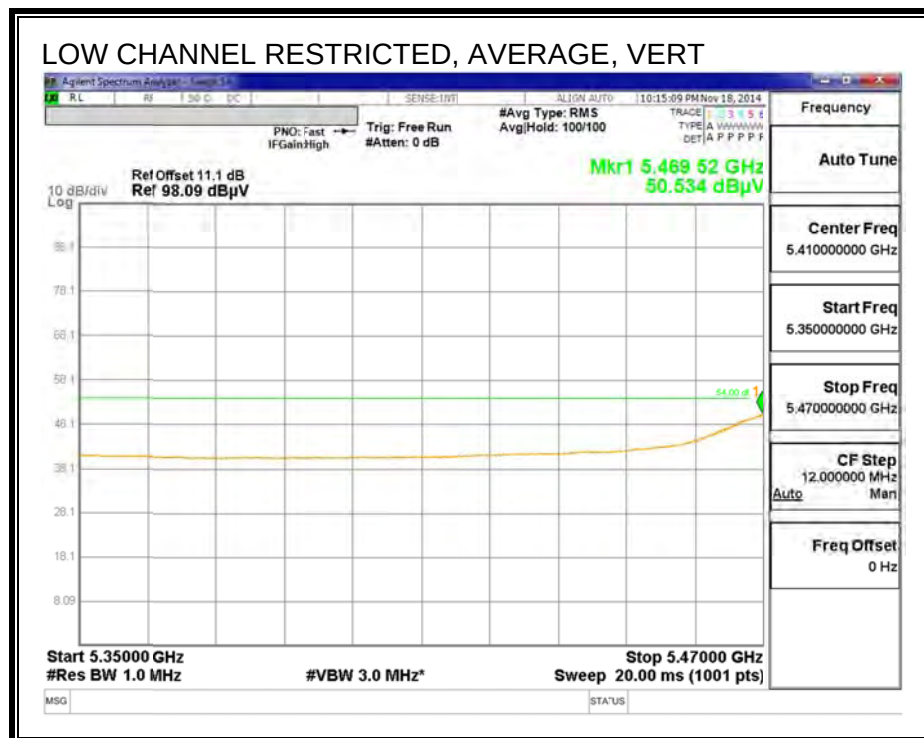
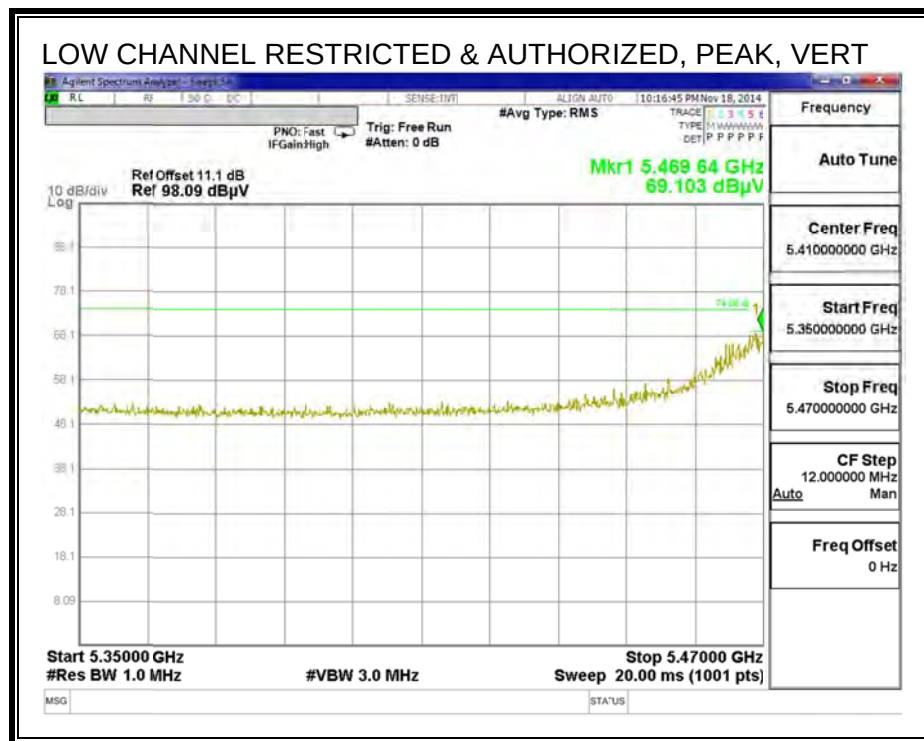
Note: this test is covered on by testing to 11a 1Tx Mode.

10.2.9. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

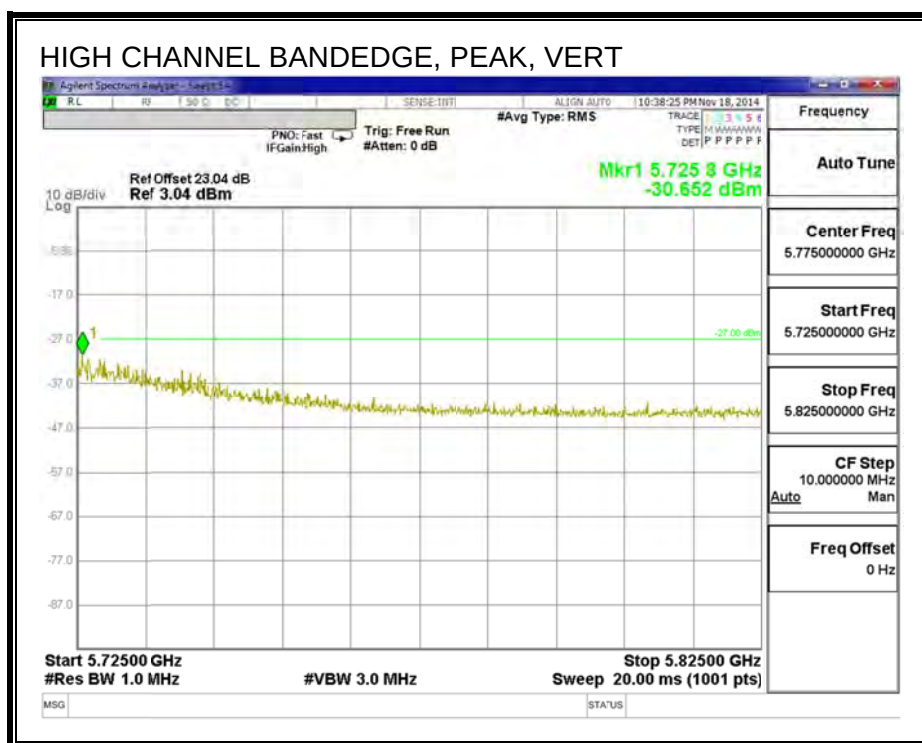
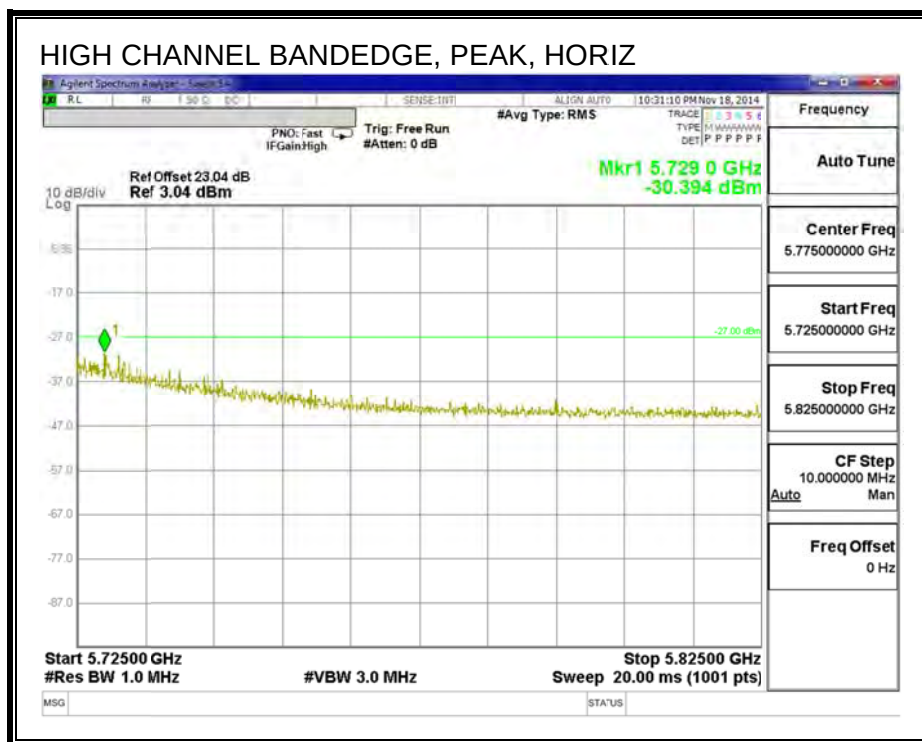


$$50.041 \text{ dB} + 0.12869337 = 50.16969337 \text{ dBuV}$$

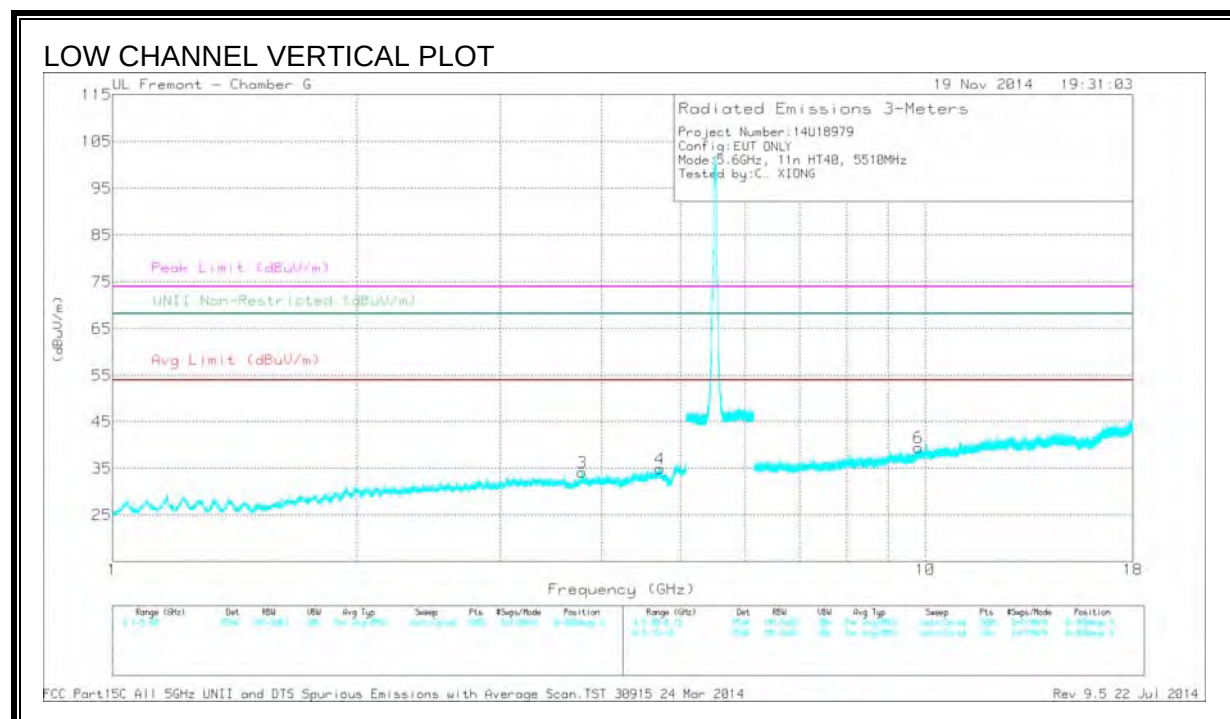
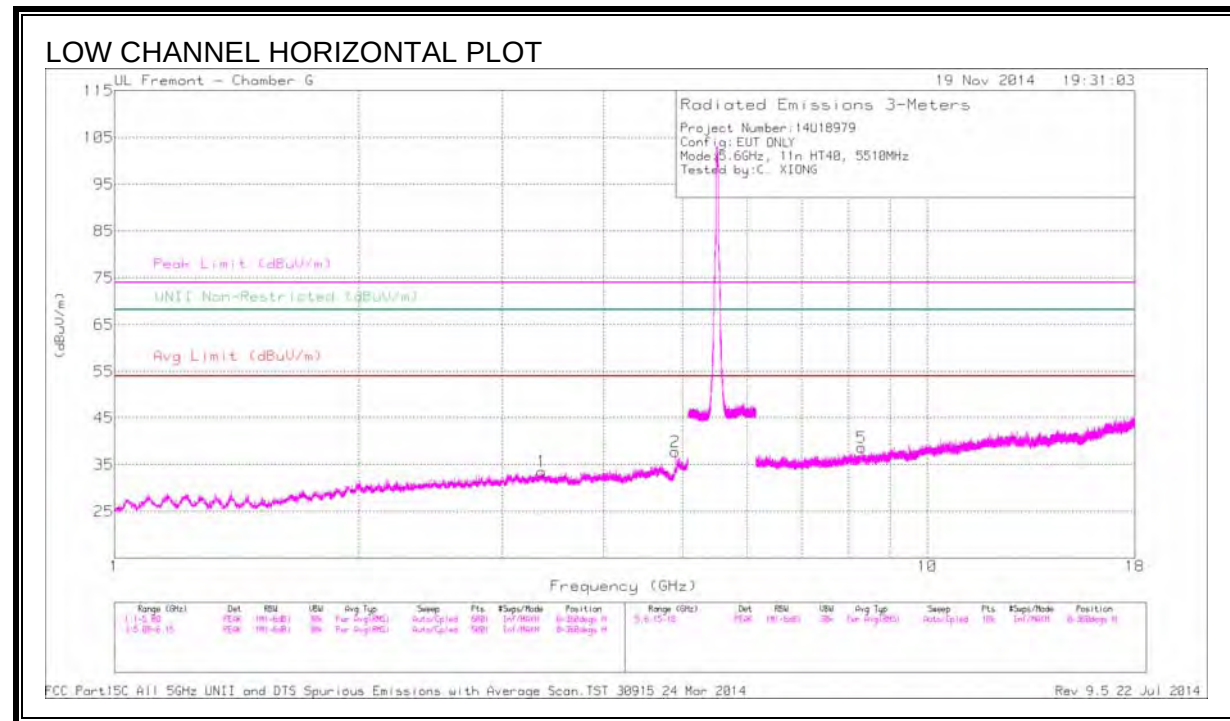


$$50.534 \text{ dB} + 0.12869337 = 50.66269337 \text{ dBuV}$$

AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

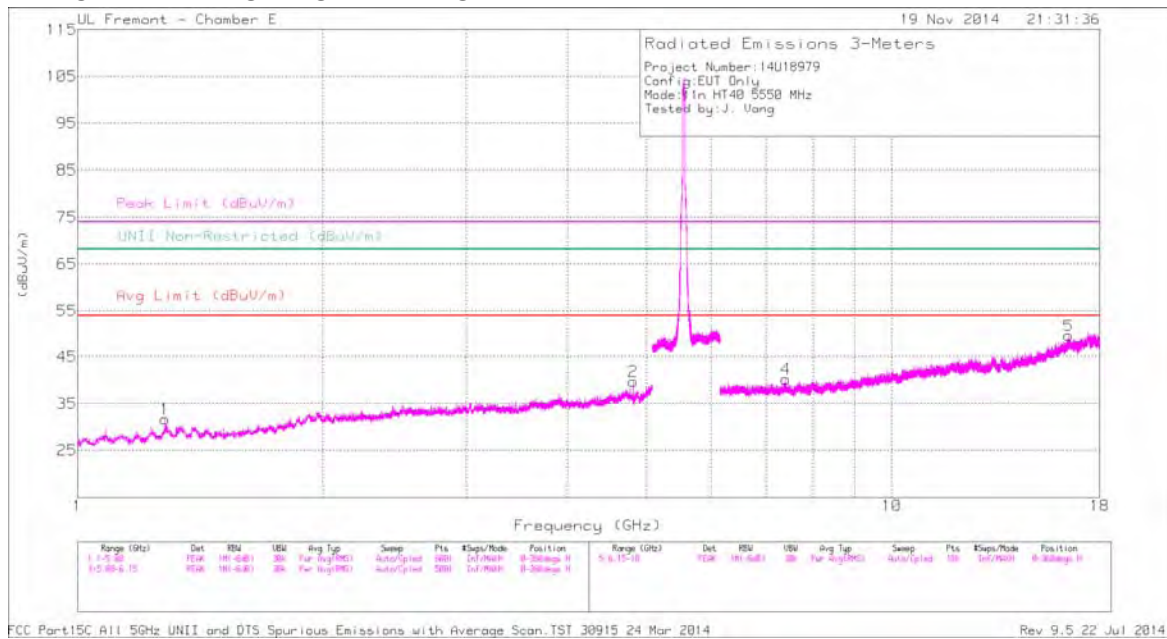
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 3.354	41.48	PK1	32.9	-33.1	0	41.28	-	-	74	-32.72	-	-	H
1	* 3.355	30.06	AD1	32.9	-33.1	.13	29.99	54	-24.01	-	-	-	-	H
2	* 4.898	43.18	PK1	34.1	-32.2	0	45.08	-	-	74	-28.92	-	-	H
2	* 4.898	33.20	AD1	34.1	-32.2	.13	35.23	54	-18.77	-	-	-	-	H
3	* 3.784	42.16	PK1	33.0	-33.5	0	41.66	-	-	74	-32.34	-	-	V
3	* 3.788	30.89	AD1	33.0	-33.5	.13	30.52	54	-23.48	-	-	-	-	V
4	* 4.716	41.15	PK1	34.0	-32.6	0	42.55	-	-	74	-31.45	-	-	V
4	* 4.713	29.88	AD1	34.0	-32.6	.13	31.41	54	-22.59	-	-	-	-	V
5	* 8.301	38.24	PK1	35.8	-29.3	0	44.74	-	-	74	-29.26	-	-	H
5	* 8.299	27.84	AD1	35.8	-29.3	.13	34.47	54	-19.53	-	-	-	-	H
6	9.808	37.05	PK1	37.1	-28.2	0	45.95	-	-	-	-	68.2	-22.25	V

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

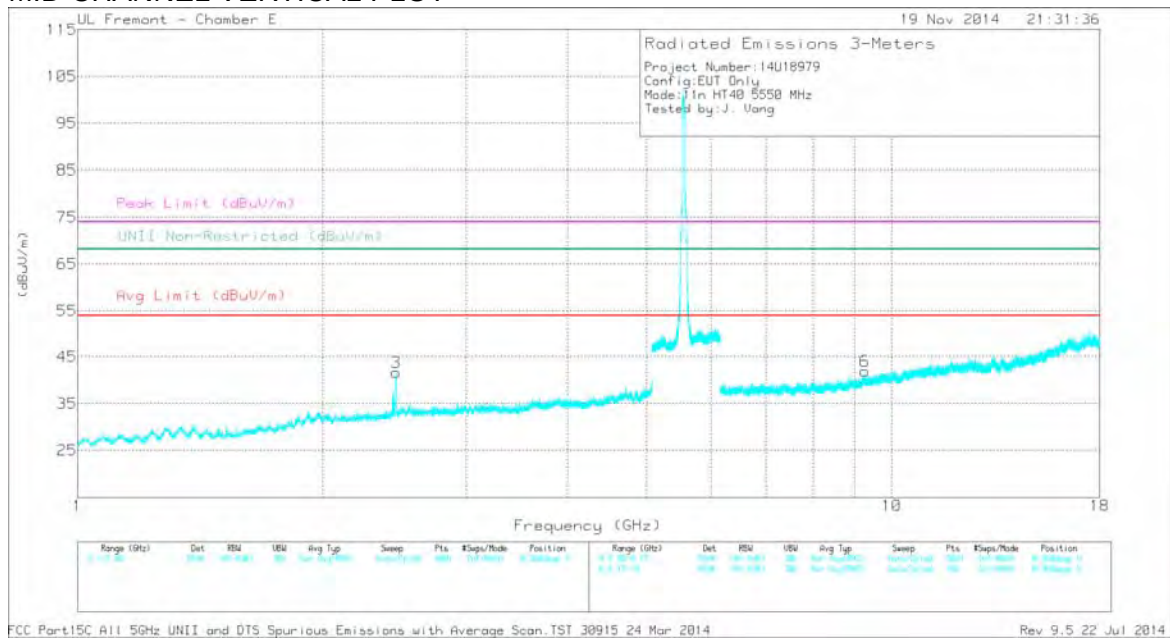
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

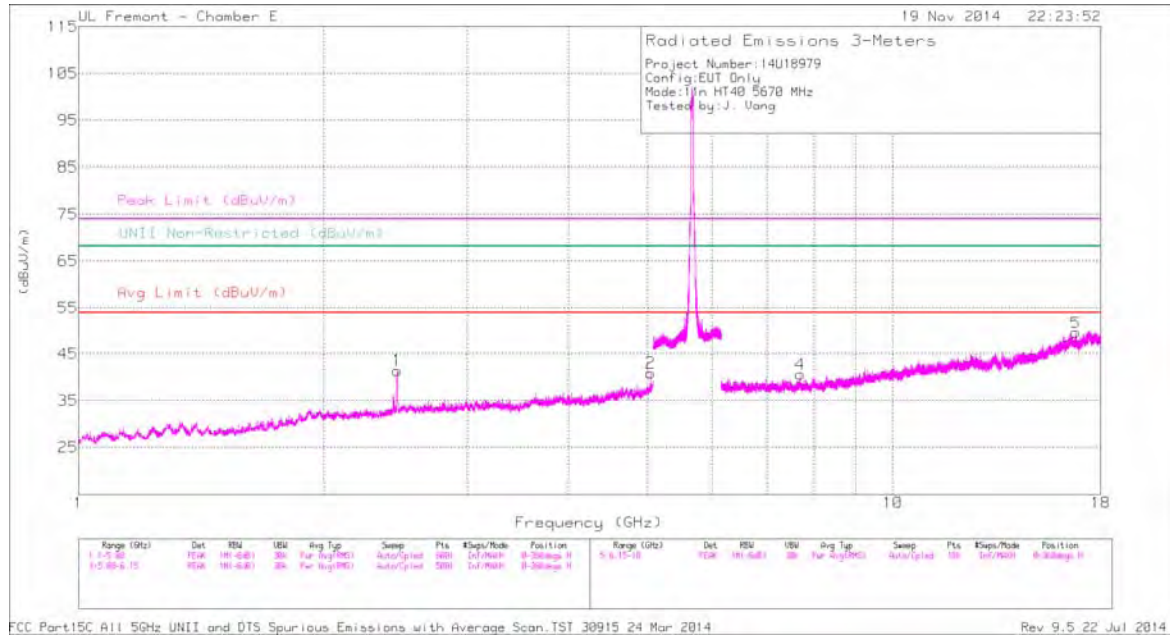
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 1.281	44.07	PK1	28.8	-34.3	0	38.57	-	-	74	-35.43	-	-	H
1	* 1.283	32.01	AD1	28.8	-34.3	.13	26.64	54	-27.36	-	-	-	-	H
2	* 4.810	43.65	PK1	34.1	-30.3	0	47.45	-	-	74	-26.55	-	-	H
2	* 4.810	34.22	AD1	34.1	-30.3	.13	38.15	54	-15.85	-	-	-	-	H
3	2.463	46.10	PK1	32.2	-32.8	0	45.50	-	-	-	-	68.2	-22.7	V
4	* 7.413	38.92	PK1	35.7	-27.8	0	46.82	-	-	74	-27.18	-	-	H
4	* 7.412	27.21	AD1	35.7	-27.8	.13	35.24	54	-18.76	-	-	-	-	H
5	16.494	35.42	PK1	41.0	-20.7	0	55.72	-	-	-	-	68.2	-12.48	H
6	9.268	36.57	PK1	36.6	-25.1	0	48.07	-	-	-	-	68.2	-20.13	V

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

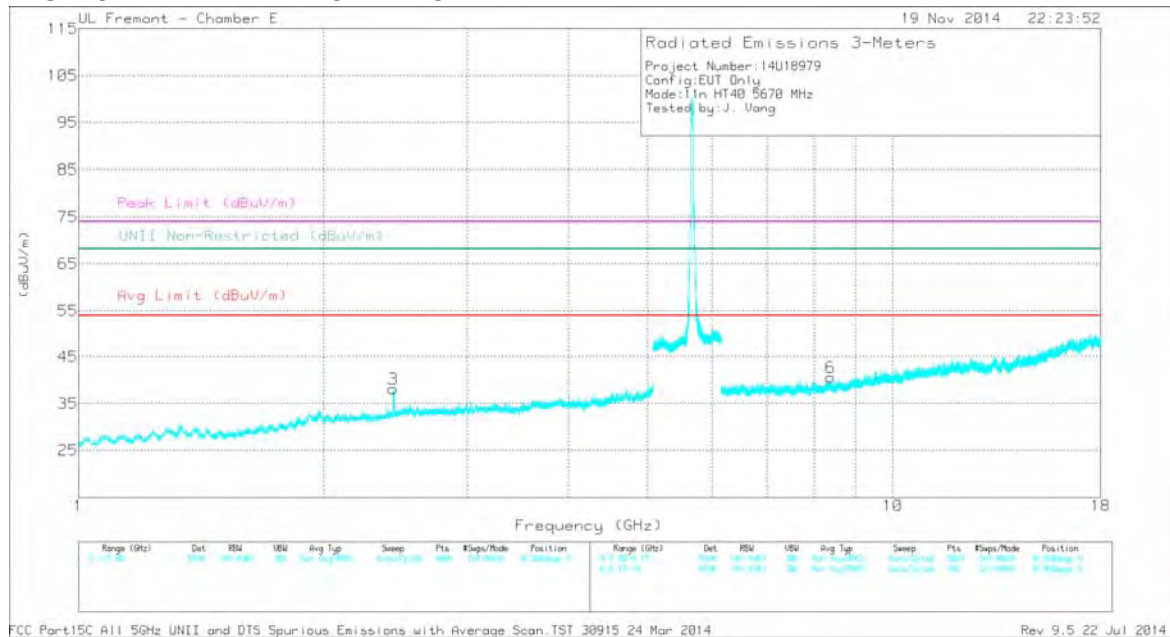
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Polarity
1	2.463	42.05	PK1	32.2	-32.8	0	41.45	-	-	-	-	68.2	-26.75	H
2	* 5.040	42.90	PK1	34.1	-28.9	0	48.10	-	-	74	-25.90	-	-	H
2	* 5.040	34.12	AD1	34.1	-28.9	.13	39.45	54	-14.55	-	-	-	-	H
3	2.434	44.58	PK1	32.1	-33.1	0	43.58	-	-	-	-	68.2	-24.62	V
4	* 7.692	38.65	PK1	35.9	-27.2	0	47.35	-	-	74	-26.65	-	-	H
4	* 7.692	26.99	AD1	35.9	-27.2	.13	35.82	54	-18.18	-	-	-	-	H
5	16.773	35.55	PK1	41.0	-20.8	0	55.75	-	-	-	-	68.2	-12.45	H
6	* 8.383	35.67	PK1	35.9	-27.2	0	44.37	-	-	74	-29.63	-	-	V
6	* 8.384	24.18	AD1	35.9	-27.2	.13	33.01	54	-20.99	-	-	-	-	V

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

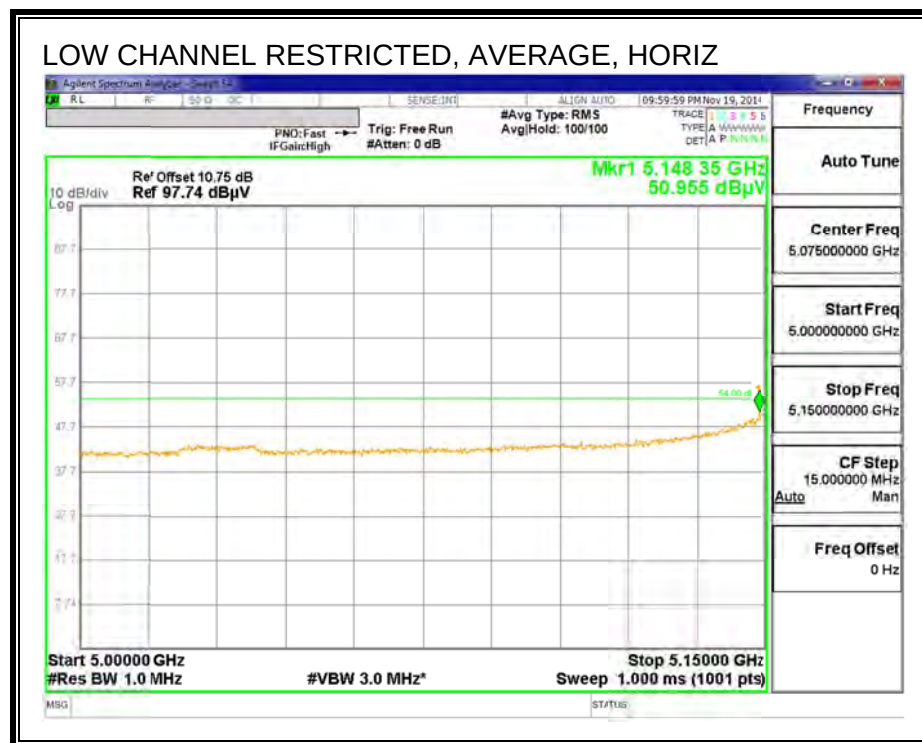
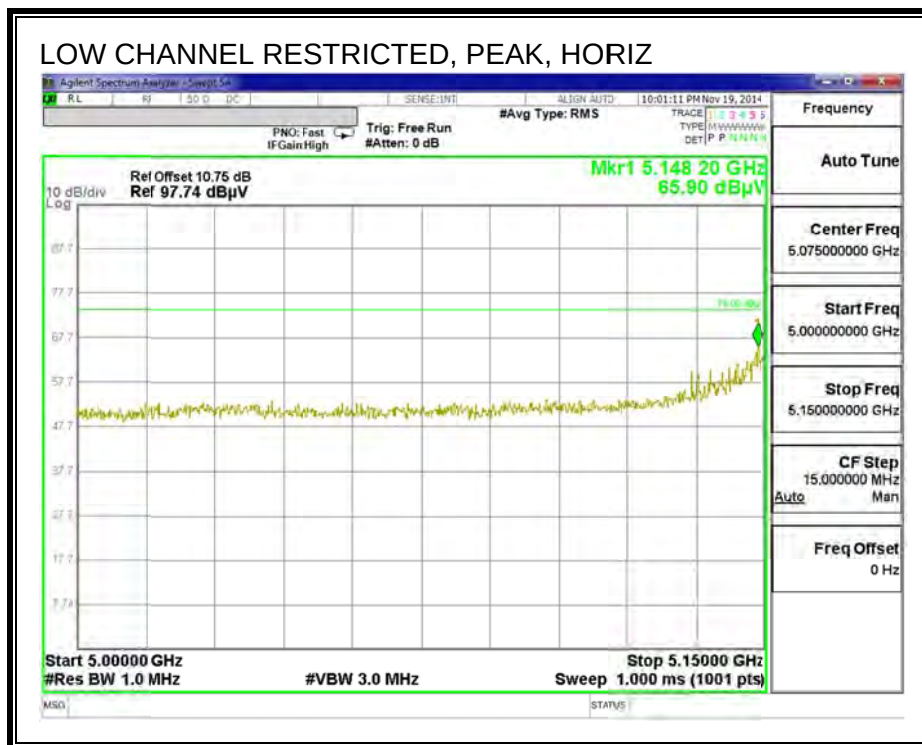
PK1 - KDB789033 Method: Peak

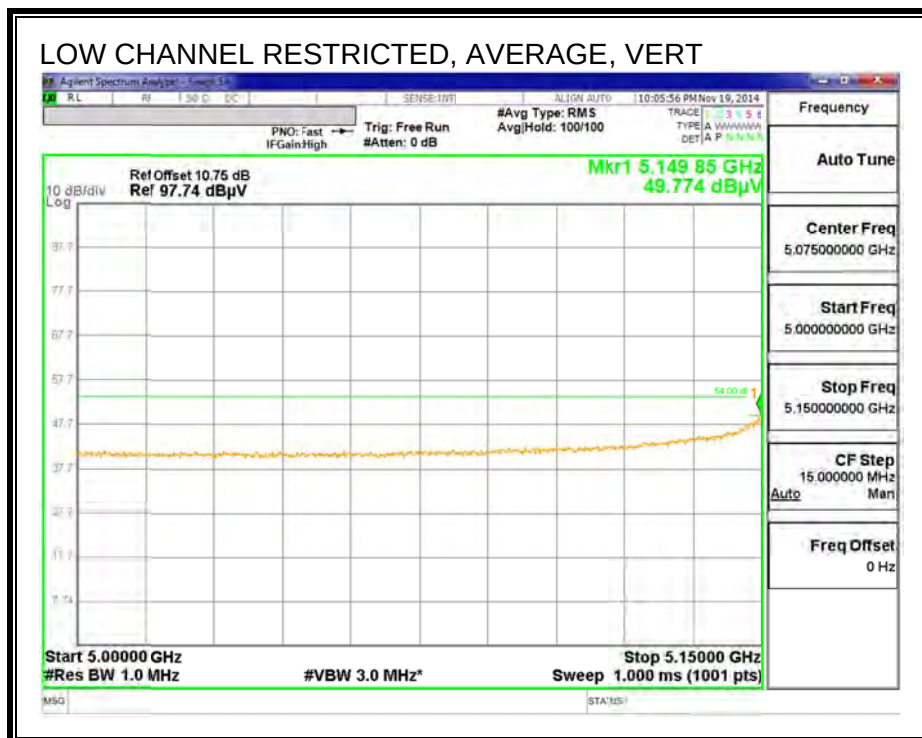
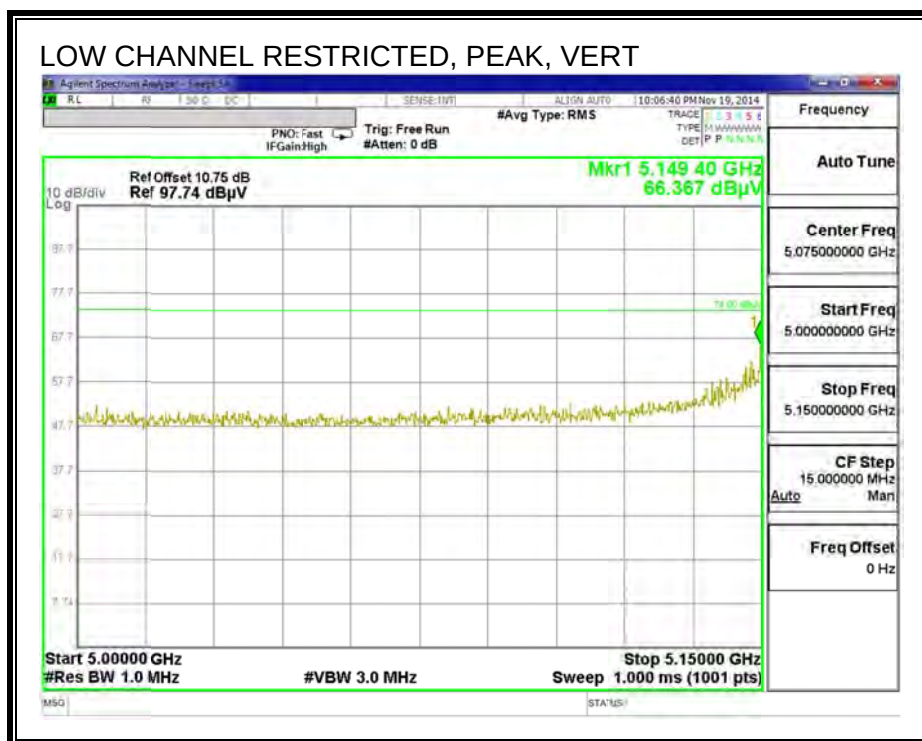
AD1 - KDB789033 Method: AD Primary Power Average

10.3. MODEL: A1623

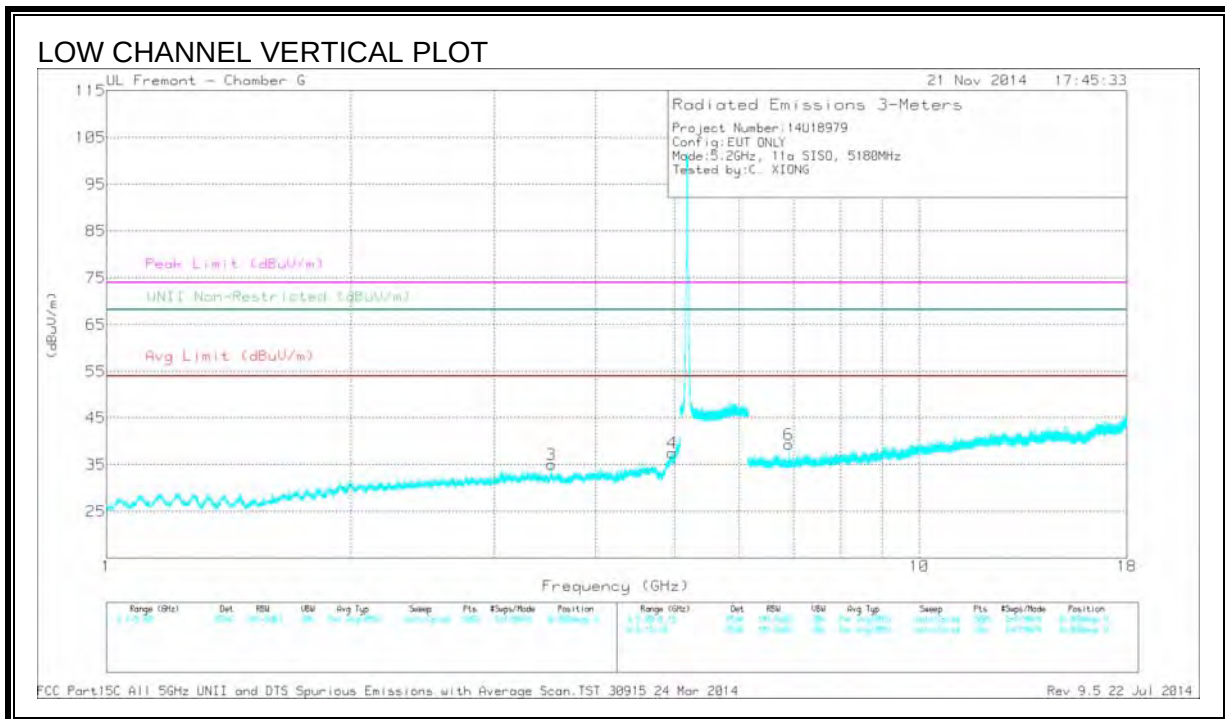
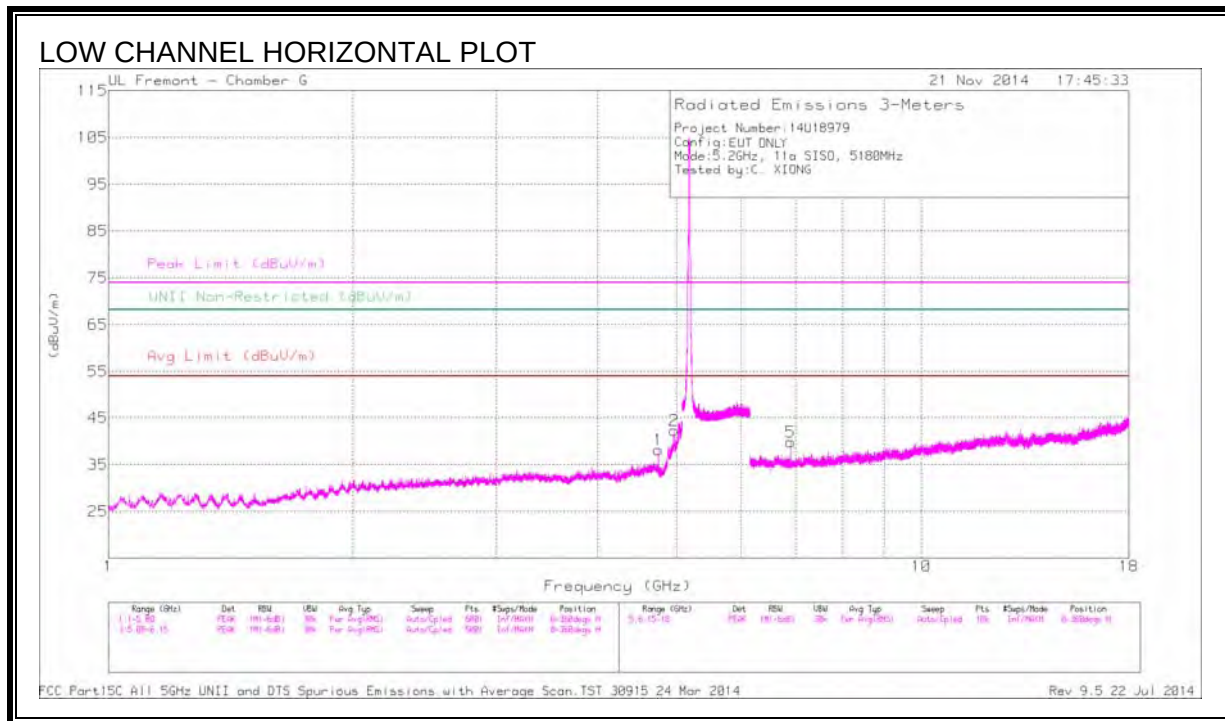
10.3.1. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

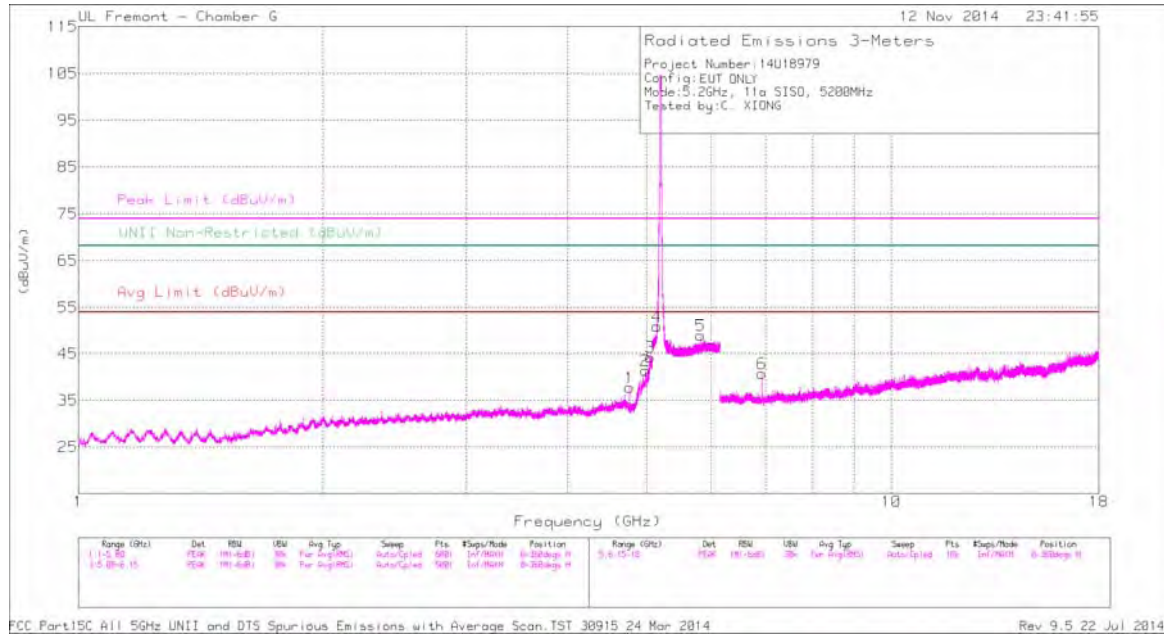
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.748	44.32	PK1	34.1	-32.8	45.62	-	-	74	-28.38	-	-	H
1	* 4.748	35.81	AD1	34.1	-32.8	37.11	54	-16.89	-	-	-	-	H
2	* 4.964	49.16	PK1	34.1	-31.8	51.46	-	-	74	-22.54	-	-	H
2	* 4.964	38.35	AD1	34.1	-31.8	40.65	54	-13.35	-	-	-	-	H
3	* 3.526	42.19	PK1	32.8	-33.5	41.49	-	-	74	-32.51	-	-	V
3	* 3.524	30.57	AD1	32.8	-33.5	29.87	54	-24.13	-	-	-	-	V
4	* 4.964	44.41	PK1	34.1	-31.8	46.71	-	-	74	-27.29	-	-	V
4	* 4.964	33.30	AD1	34.1	-31.8	35.60	54	-18.40	-	-	-	-	V
5	6.907	42.72	PK1	35.6	-31.8	46.52	-	-	-	-	68.2	-21.68	H
6	6.907	42.43	PK1	35.6	-31.8	46.23	-	-	-	-	68.2	-21.97	V

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

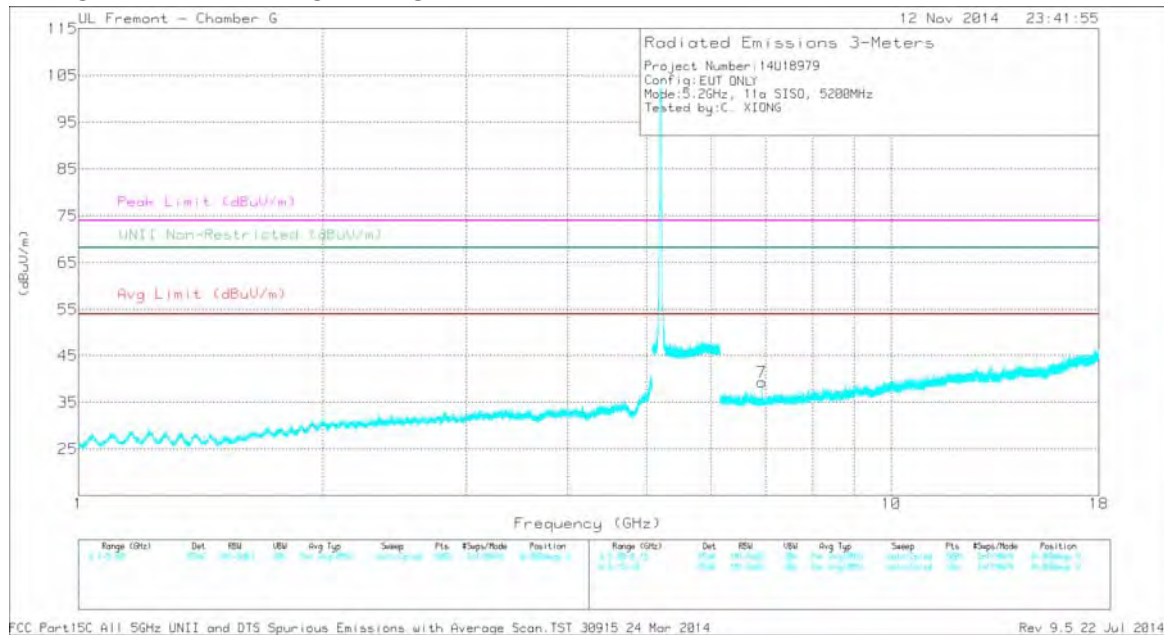
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

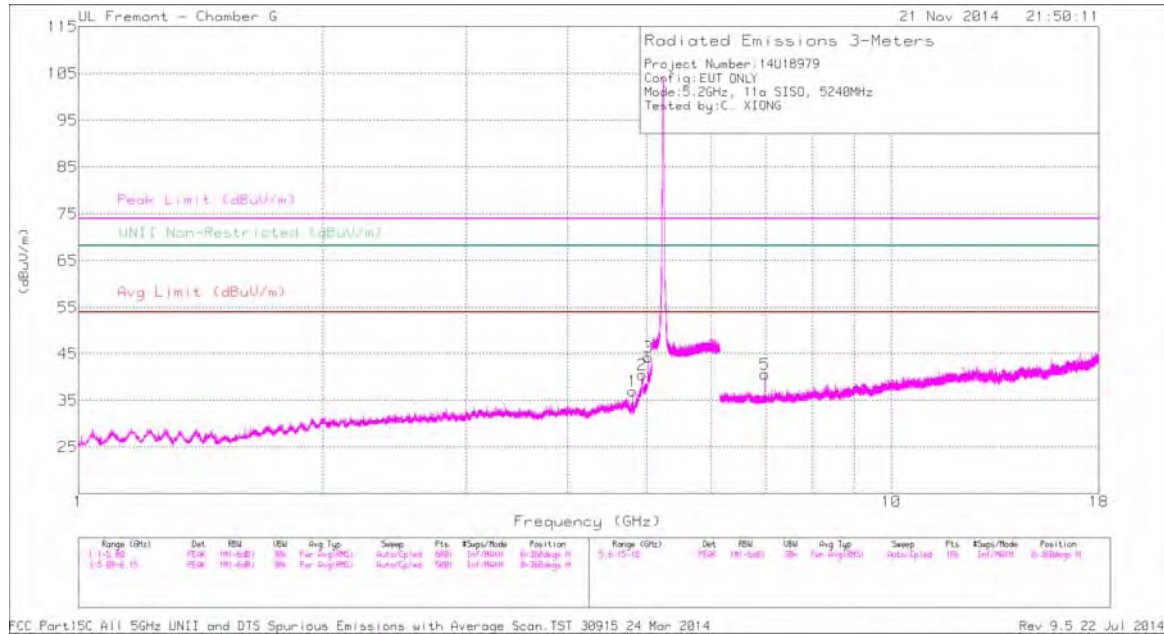
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.767	44.83	PK1	34.1	-32.8	46.13	-	-	74	-27.87	-	-	H
1	* 4.767	35.55	AD1	34.1	-32.8	36.85	54	-17.15	-	-	-	-	H
2	* 4.983	48.95	PK1	34.1	-31.9	51.15	-	-	74	-22.85	-	-	H
2	* 4.983	38.63	AD1	34.1	-31.9	40.83	54	-13.17	-	-	-	-	H
3	* 5.048	50.21	PK1	34.2	-31.4	53.01	-	-	74	-20.99	-	-	H
3	* 5.044	39.10	AD1	34.2	-31.5	41.80	54	-12.20	-	-	-	-	H
4	* 5.143	52.17	PK1	34.3	-23.7	62.77	-	-	74	-11.23	-	-	H
4	* 5.146	36.08	AD1	34.3	-23.6	46.78	54	-7.22	-	-	-	-	H
5	5.835	43.52	PK1	34.9	-23.6	54.82	-	-	-	-	68.2	-13.38	H
6	6.933	44.26	PK1	35.6	-31.9	47.96	-	-	-	-	68.2	-20.24	H
7	6.934	42.79	PK1	35.6	-31.9	46.49	-	-	-	-	68.2	-21.71	V

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

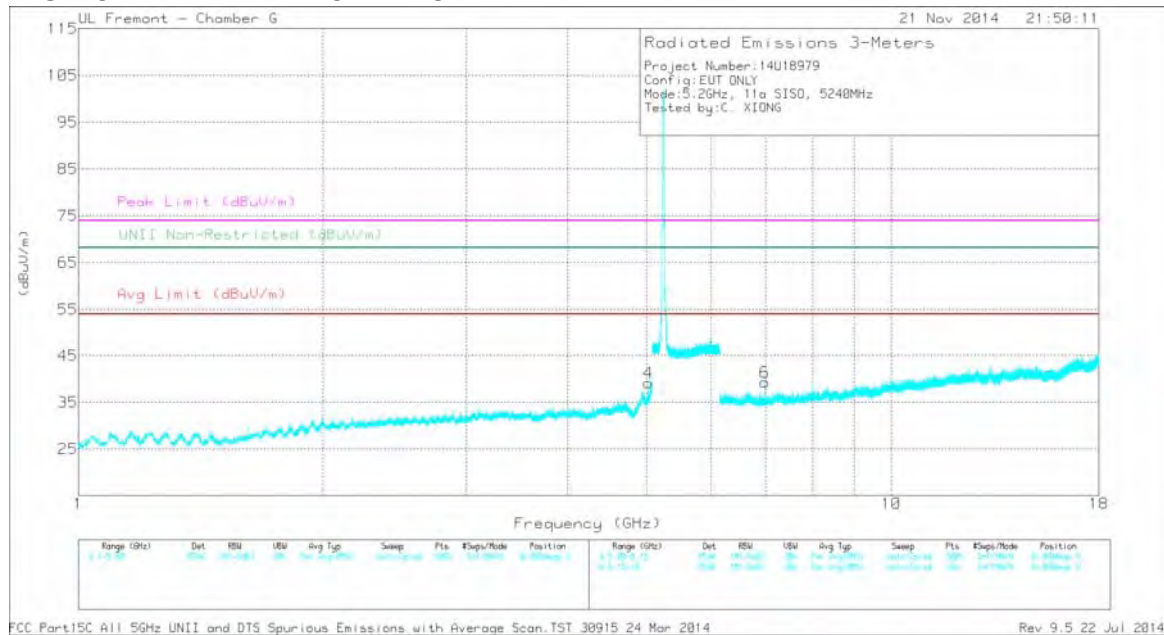
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (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)	Polarity
1	* 4.803	44.13	PK1	34.1	-32.9	45.33	-	-	74	-28.67	-	-	H
1	* 4.803	35.62	AD1	34.1	-32.9	36.82	54	-17.18	-	-	-	-	H
2	* 4.943	45.81	PK1	34.1	-31.7	48.21	-	-	74	-25.79	-	-	H
2	* 4.943	35.26	AD1	34.1	-31.7	37.66	54	-16.34	-	-	-	-	H
3	* 5.022	49.23	PK1	34.1	-32.0	51.33	-	-	74	-22.67	-	-	H
3	* 5.022	40.82	AD1	34.1	-32.1	42.82	54	-11.18	-	-	-	-	H
4	* 5.022	47.84	PK1	34.1	-32.1	49.84	-	-	74	-24.16	-	-	V
4	* 5.022	38.90	AD1	34.1	-32.1	40.9	54	-13.10	-	-	-	-	V
5	6.986	42.87	PK1	35.6	-31.7	46.77	-	-	-	-	68.2	-21.43	H
6	6.987	42.47	PK1	35.6	-31.7	46.37	-	-	-	-	68.2	-21.83	V

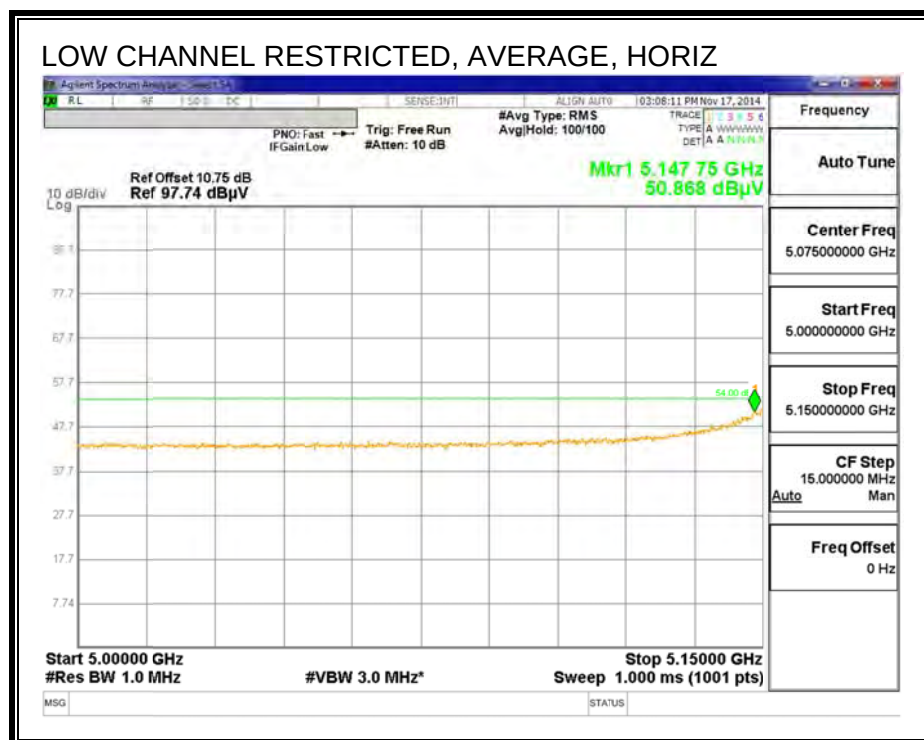
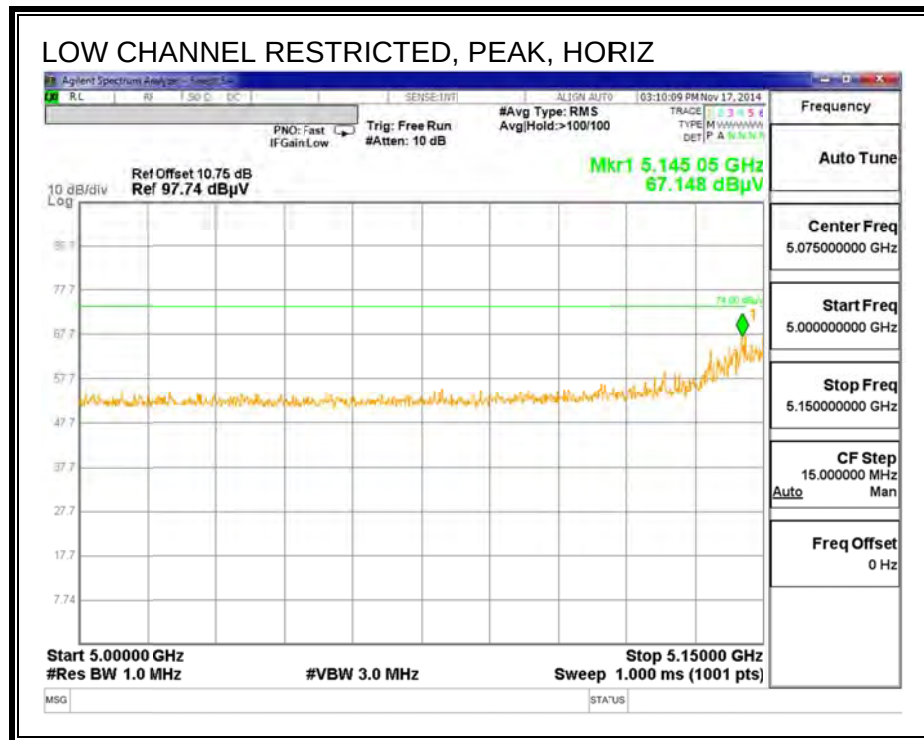
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

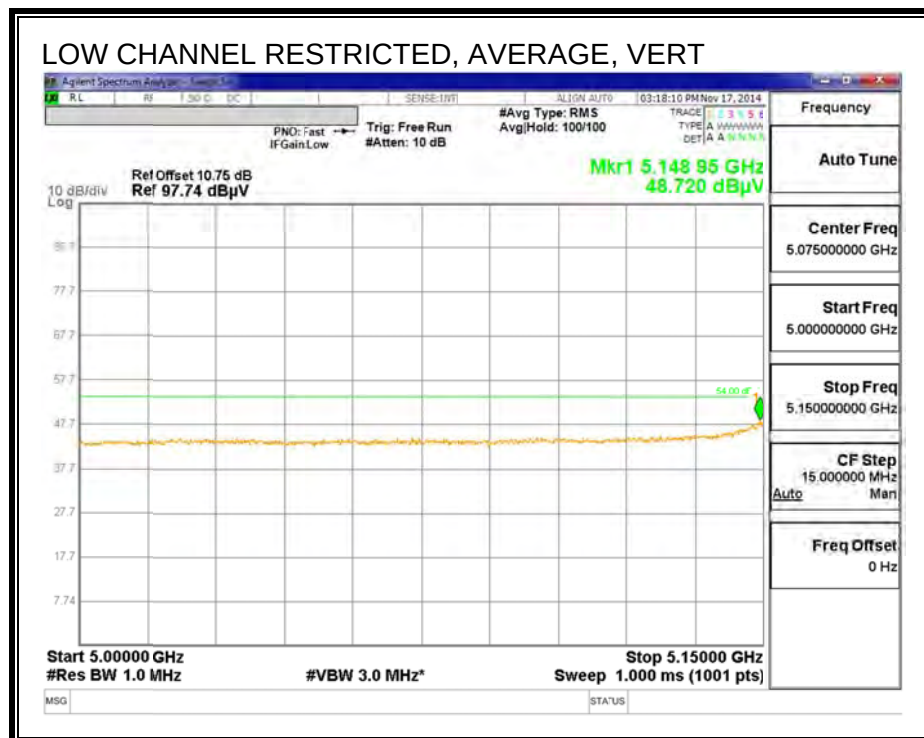
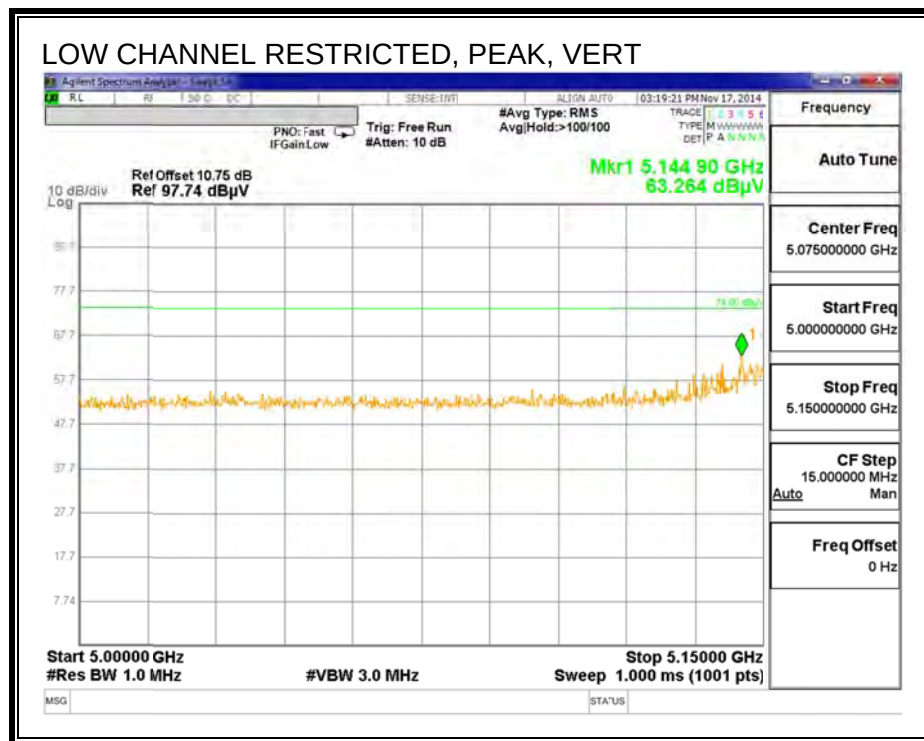
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

RESTRICTED BANEDGE (LOW CHANNEL)



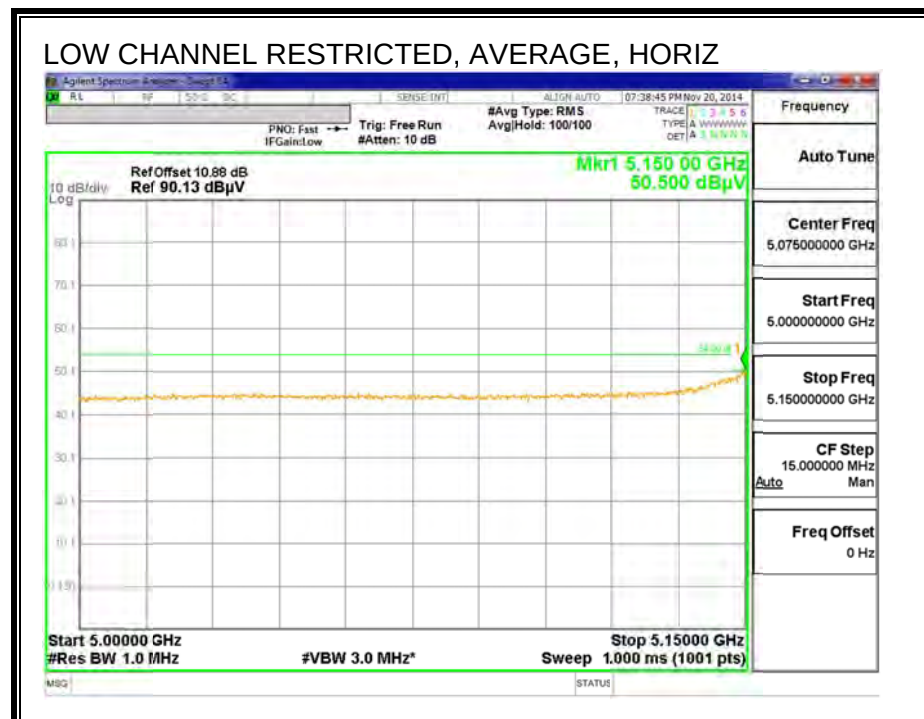
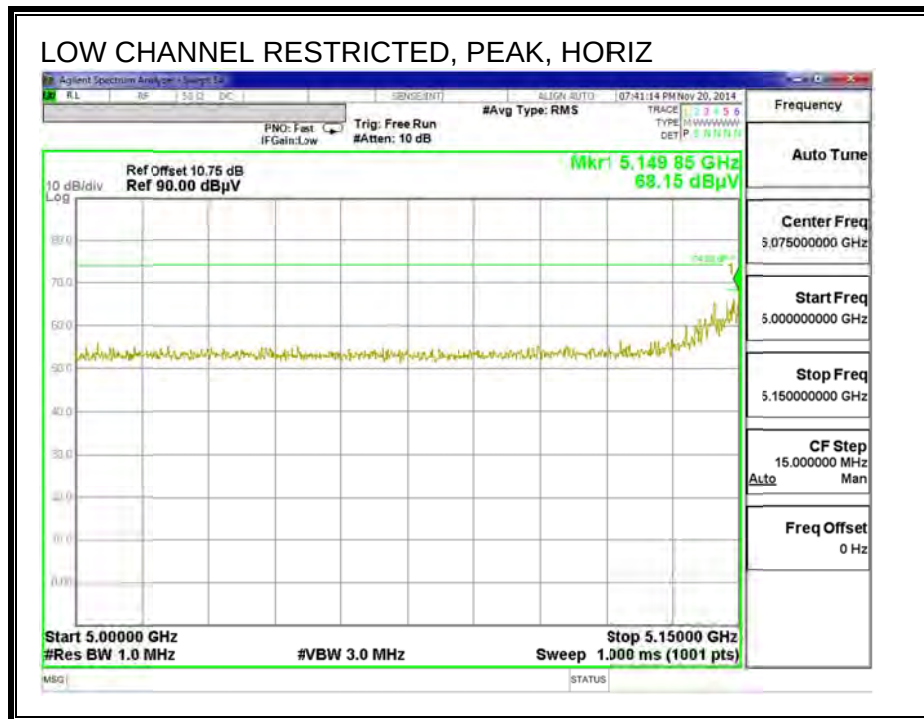


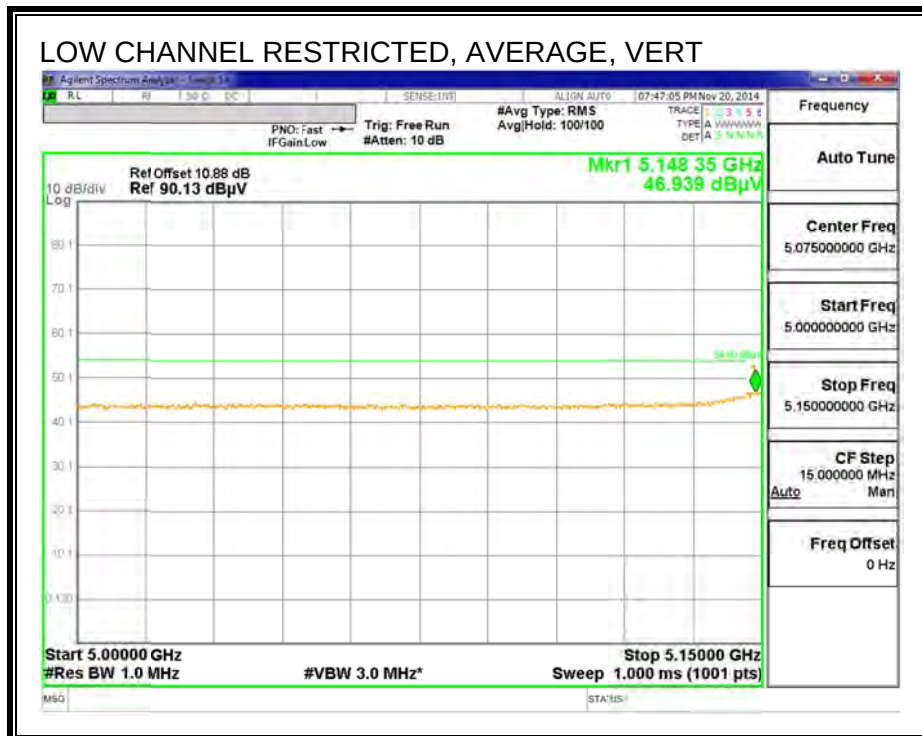
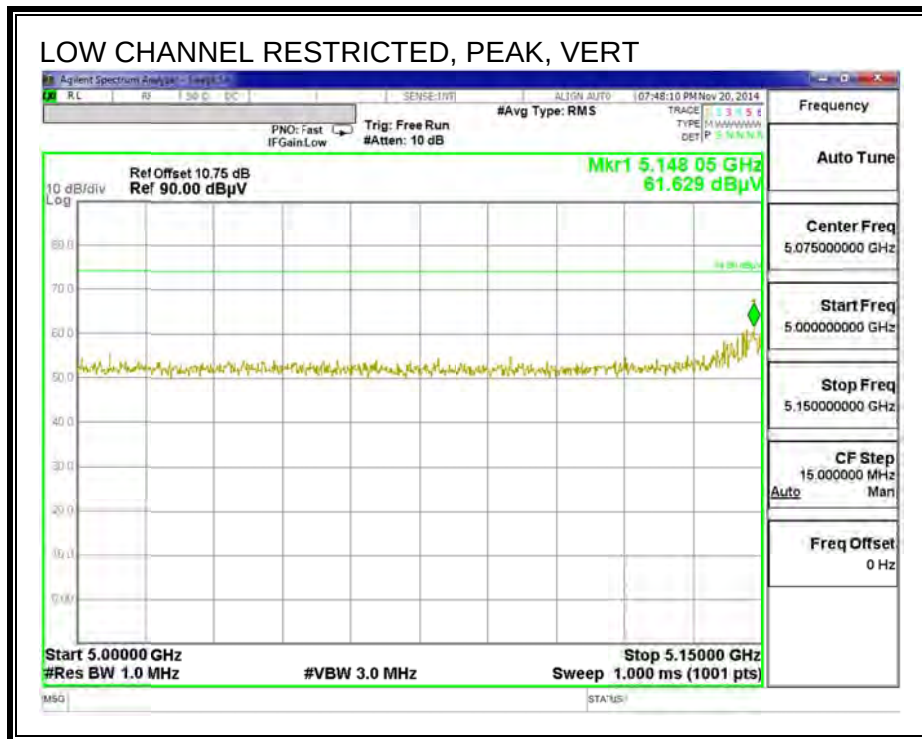
HARMONICS AND SPURIOUS EMISSIONS

Note: this test is covered on by testing to 11a 1Tx Mode.

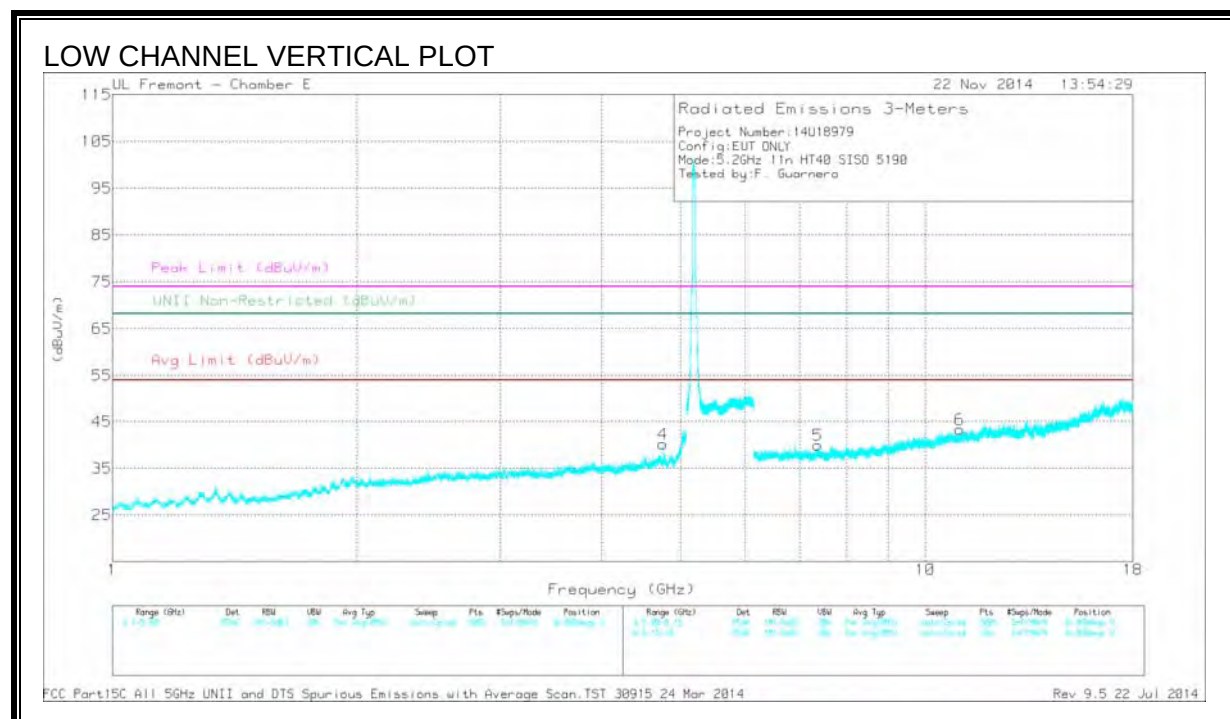
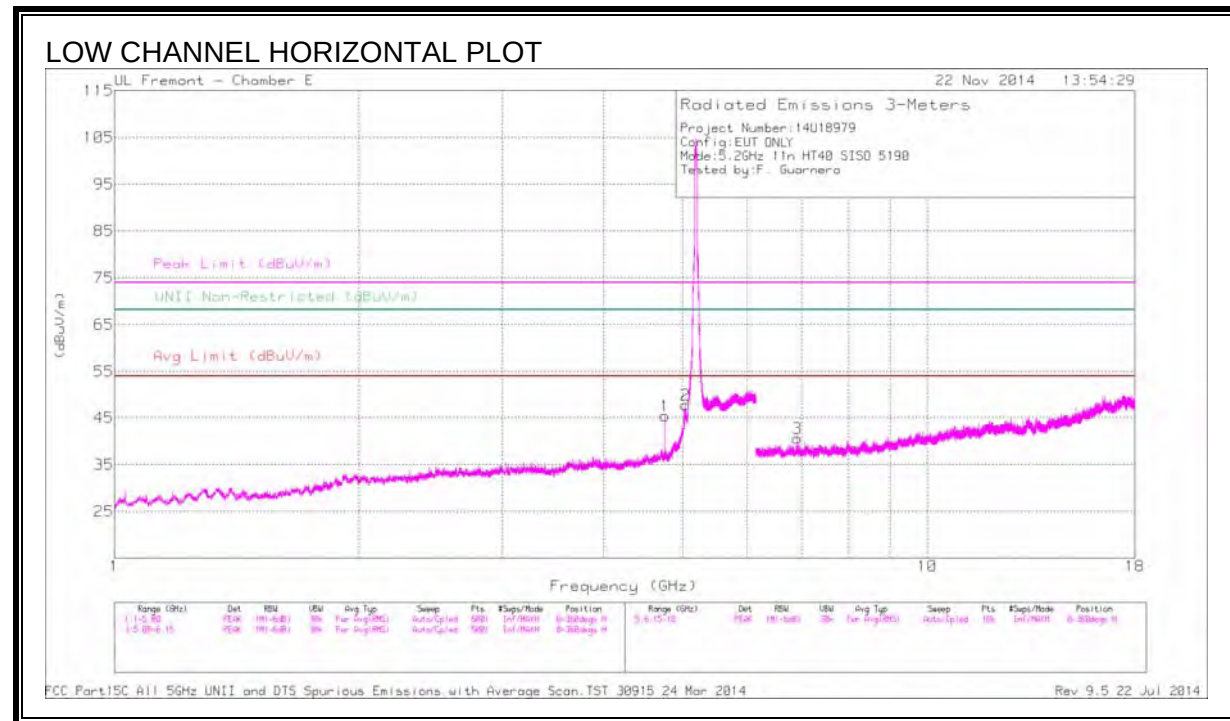
10.3.3. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.2 GHz BAND

RESTRICTED BANEDGE (LOW CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

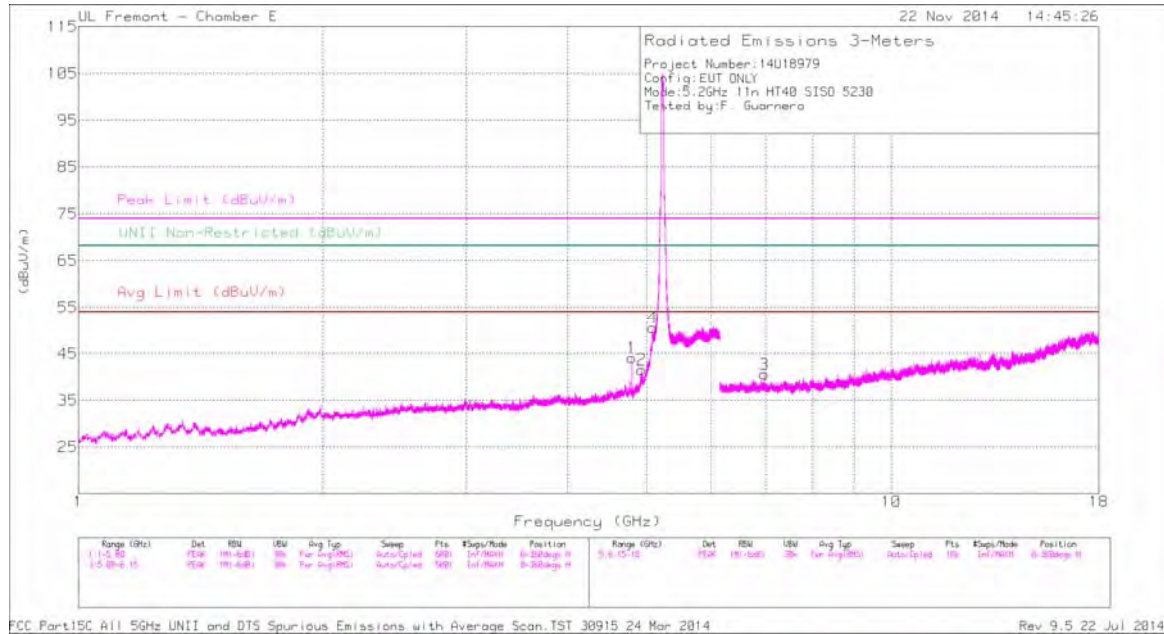
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.757	48.43	PK1	34.1	-30.6	0	51.93	-	-	74	-22.07	-	-	H
1	* 4.758	42.10	AD1	34.1	-30.6	.13	45.73	54	-8.27	-	-	-	-	H
2	* 5.040	50.29	PK1	34.1	-28.9	0	55.49	-	-	74	-18.51	-	-	H
2	* 5.043	39.13	AD1	34.1	-28.8	.13	44.56	54	-9.44	-	-	-	-	H
3	6.920	41.58	PK1	35.9	-28.4	0	49.08	-	-	-	-	68.2	-19.12	H
4	* 4.757	44.67	PK1	34.1	-30.6	0	48.17	-	-	74	-25.83	-	-	V
4	* 4.758	35.36	AD1	34.1	-30.6	.13	38.99	54	-15.01	-	-	-	-	V
5	* 7.378	38.91	PK1	35.7	-27.0	0	47.61	-	-	74	-26.39	-	-	V
5	* 7.377	26.86	AD1	35.7	-27.0	.13	35.69	54	-18.31	-	-	-	-	V
6	* 11.028	36.08	PK1	37.9	-24.1	0	49.88	-	-	74	-24.12	-	-	V
6	* 11.031	24.92	AD1	37.9	-24.1	.13	38.85	54	-15.15	-	-	-	-	V

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

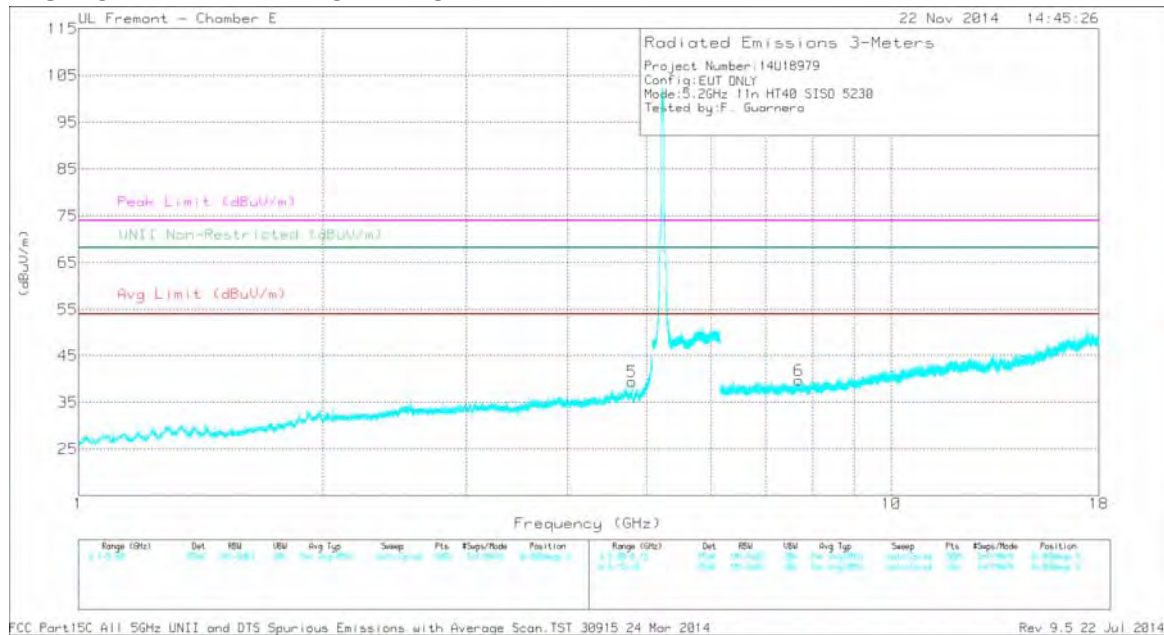
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

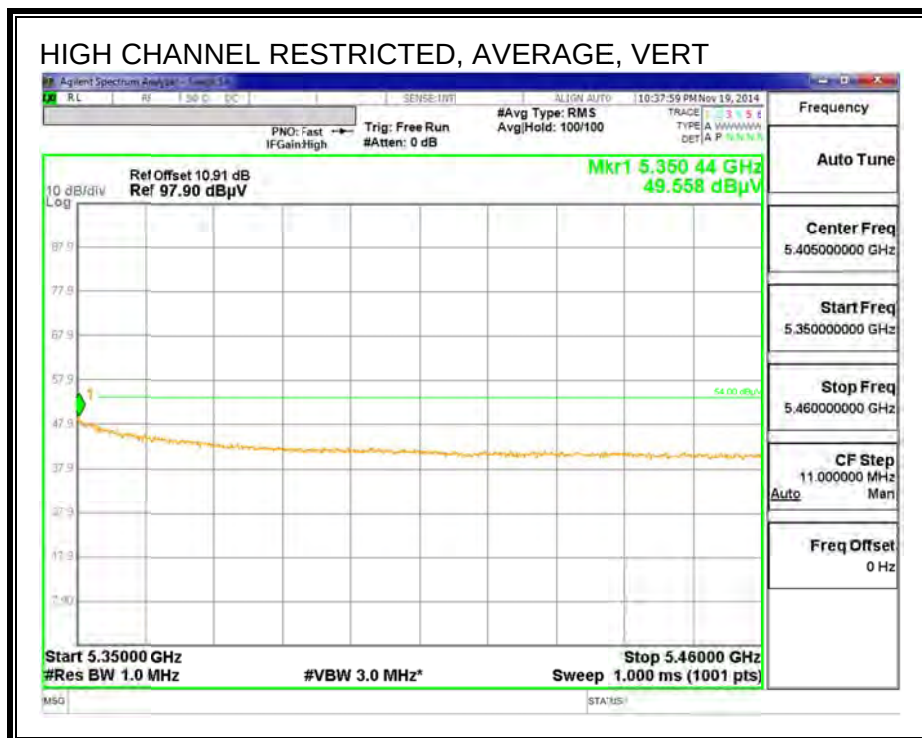
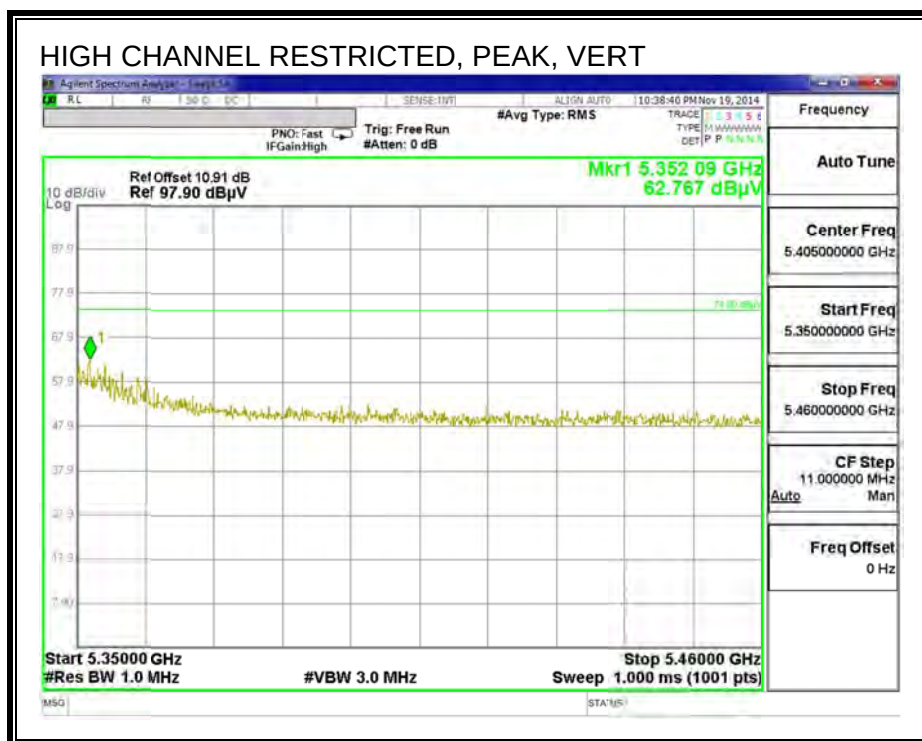
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Polarity
1	* 4.794	46.89	PK1	34.1	-30.2	0	50.79	-	-	74	-23.21	-	-	H
1	* 4.794	40.18	AD1	34.1	-30.2	.13	44.21	54	-9.79	-	-	-	-	H
2	* 4.933	43.53	PK1	34.1	-29.7	0	47.93	-	-	74	-26.07	-	-	H
2	* 4.932	32.80	AD1	34.1	-29.7	.13	37.33	54	-16.67	-	-	-	-	H
3	6.973	41.26	PK1	35.9	-28.3	0	48.86	-	-	-	-	68.2	-19.34	H
4	* 5.086	46.39	PK1	34.1	-21.6	0	58.89	-	-	74	-15.11	-	-	H
4	* 5.085	34.45	AD1	34.1	-21.6	.13	47.08	54	-6.92	-	-	-	-	H
5	* 4.794	43.85	PK1	34.1	-30.2	0	47.75	-	-	74	-26.25	-	-	V
5	* 4.794	34.06	AD1	34.1	-30.2	.13	38.09	54	-15.91	-	-	-	-	V
6	* 7.699	38.12	PK1	35.9	-27.4	0	46.62	-	-	74	-27.38	-	-	V
6	* 7.698	27.07	AD1	35.9	-27.4	.13	35.7	54	-18.3	-	-	-	-	V

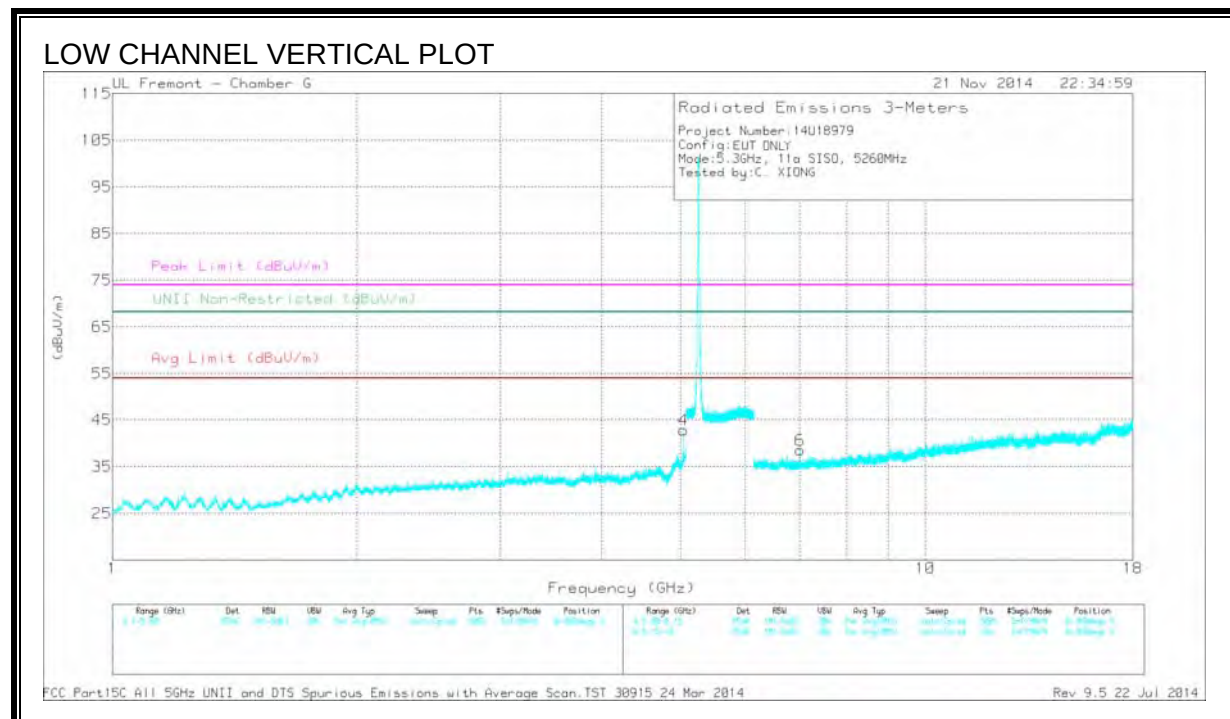
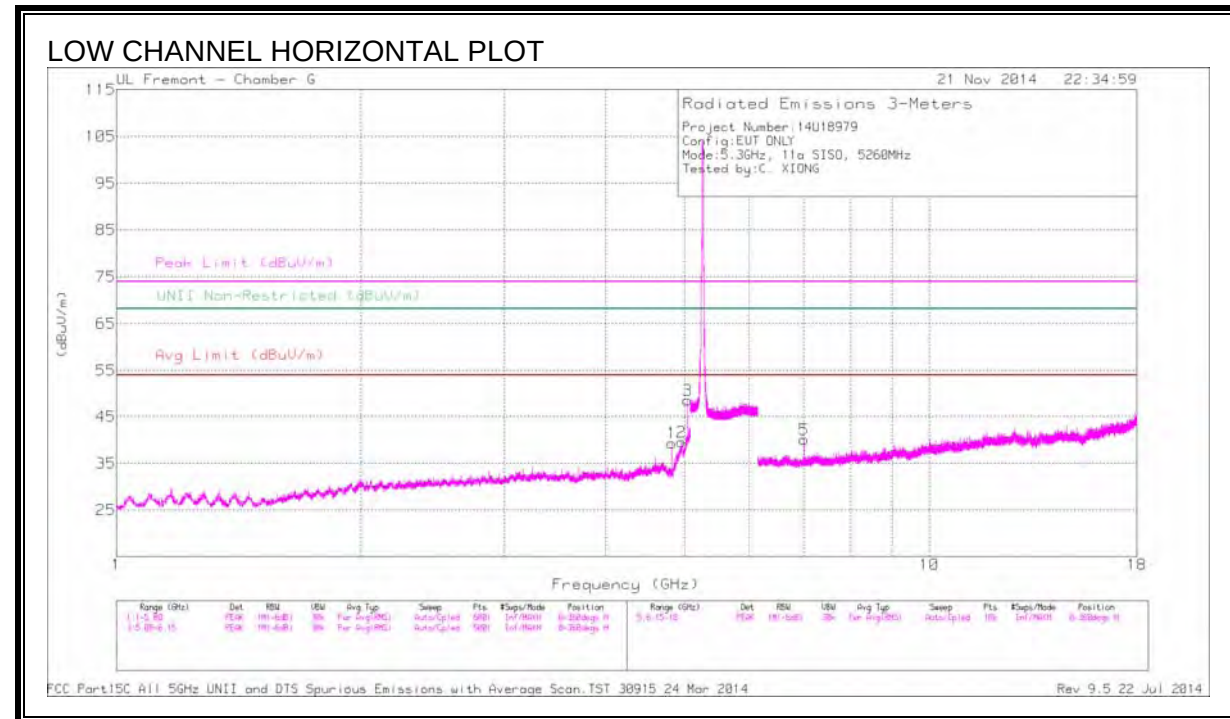
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average



HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

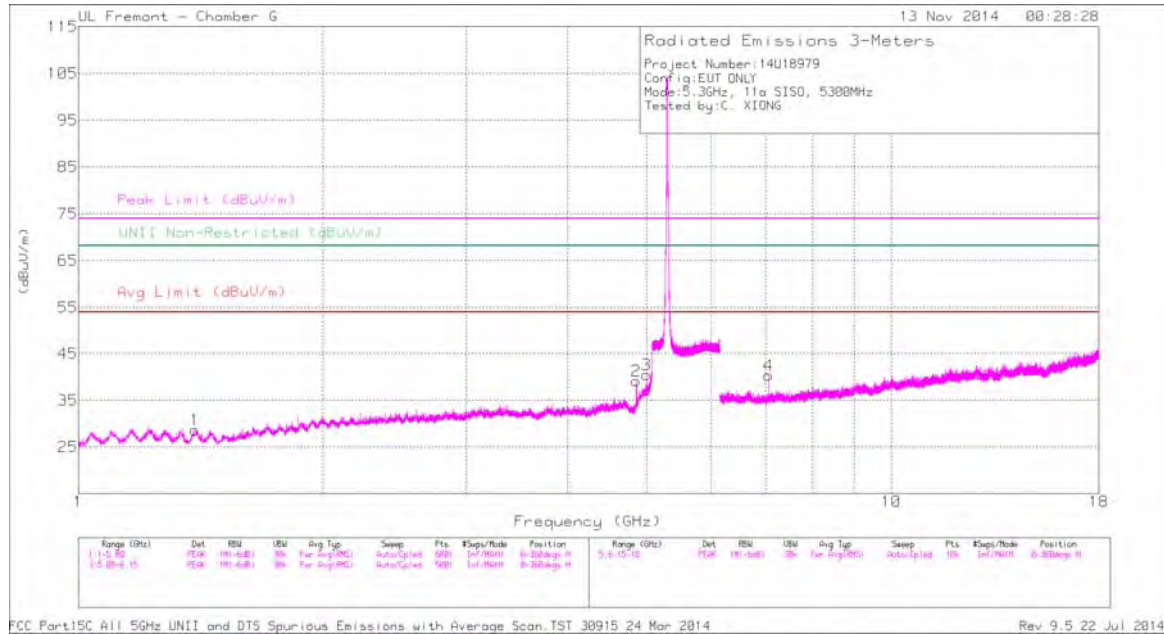
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.822	43.10	PK1	34.1	-32.6	44.60	-	-	74	-29.4	-	-	H
1	* 4.822	35.32	AD1	34.1	-32.6	36.82	54	-17.18	-	-	-	-	H
2	* 4.959	46.26	PK1	34.1	-31.8	48.56	-	-	74	-25.44	-	-	H
2	* 4.959	34.81	AD1	34.1	-31.9	37.01	54	-16.99	-	-	-	-	H
3	* 5.041	51.76	PK1	34.2	-31.6	54.36	-	-	74	-19.64	-	-	H
3	* 5.041	44.17	AD1	34.2	-31.6	46.77	54	-7.23	-	-	-	-	H
4	* 5.041	49.61	PK1	34.2	-31.6	52.21	-	-	74	-21.79	-	-	V
4	* 5.041	42.34	AD1	34.2	-31.6	44.94	54	-9.06	-	-	-	-	V
5	7.013	42.83	PK1	35.6	-31.6	46.83	-	-	-	-	68.2	-21.37	H
6	7.013	41.84	PK1	35.6	-31.6	45.84	-	-	-	-	68.2	-22.36	V

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

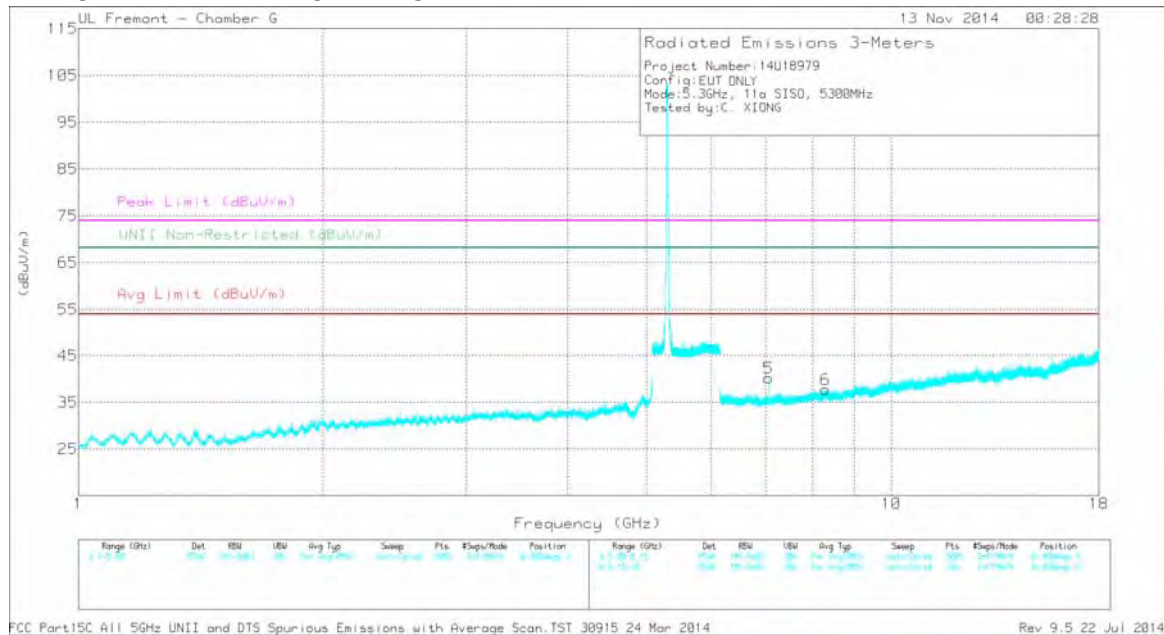
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

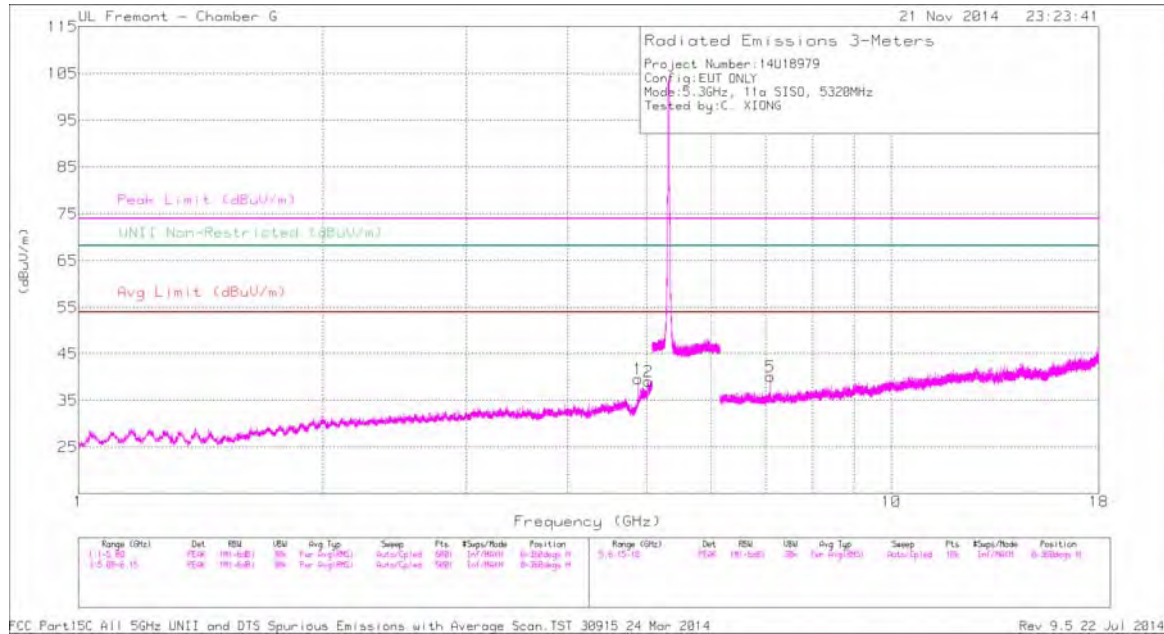
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 1.391	44.03	PK1	28.5	-35.1	37.43	-	-	74	-36.57	-	-	H
1	* 1.393	31.73	AD1	28.5	-35.1	25.13	54	-28.87	-	-	-	-	H
2	* 4.859	42.96	PK1	34.1	-32.4	44.66	-	-	74	-29.34	-	-	H
2	* 4.858	34.88	AD1	34.1	-32.4	36.58	54	-17.42	-	-	-	-	H
3	* 4.999	46.38	PK1	34.1	-32.1	48.38	-	-	74	-25.62	-	-	H
3	* 5.003	35.30	AD1	34.1	-32.2	37.20	54	-16.80	-	-	-	-	H
4	7.067	43.46	PK1	35.6	-31.8	47.26	-	-	-	-	68.2	-20.94	H
5	7.067	42.98	PK1	35.6	-31.8	46.78	-	-	-	-	68.2	-21.42	V
6	* 8.302	35.18	PK1	35.8	-29.3	41.68	-	-	74	-32.32	-	-	V
6	* 8.300	23.72	AD1	35.8	-29.3	30.22	54	-23.78	-	-	-	-	V

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

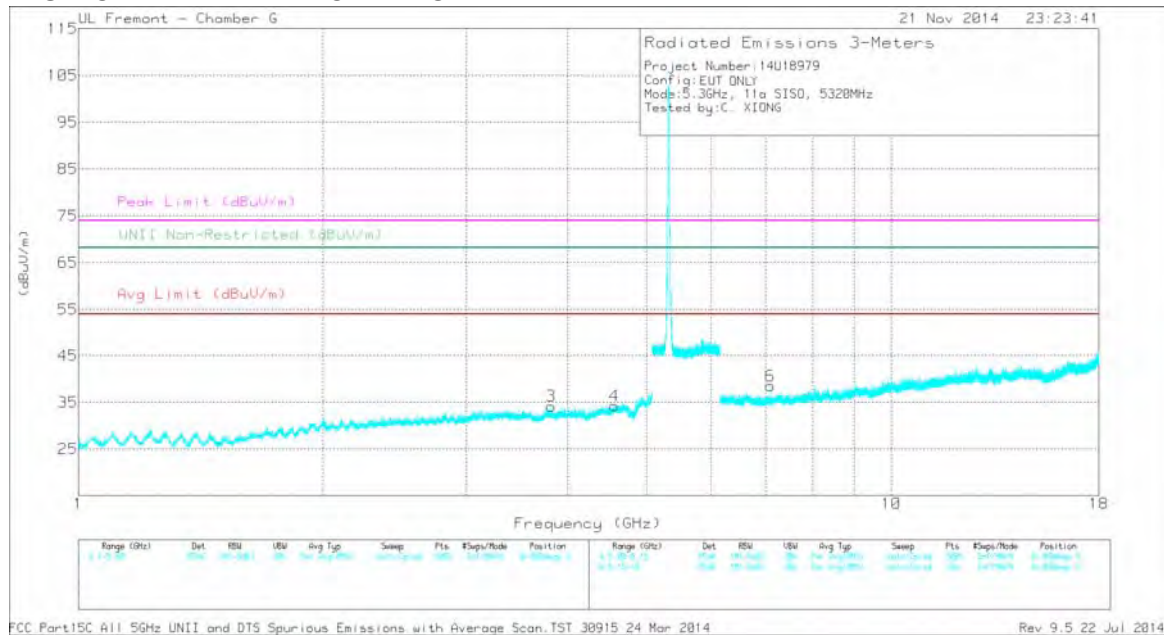
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (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)	Polarity
1	* 4.877	43.97	PK1	34.1	-32.1	45.97	-	-	74	-28.03	-	-	H
1	* 4.877	36.34	AD1	34.1	-32.1	38.34	54	-15.66	-	-	-	-	H
2	* 5.026	45.42	PK1	34.1	-32.0	47.52	-	-	74	-26.48	-	-	H
2	* 5.026	34.55	AD1	34.1	-32.0	36.65	54	-17.35	-	-	-	-	H
3	* 3.814	41.37	PK1	33.0	-33.3	41.07	-	-	74	-32.93	-	-	V
3	* 3.816	29.85	AD1	330	-33.3	29.55	54	-24.45	-	-	-	-	V
4	* 4.565	40.95	PK1	33.8	-32.7	42.05	-	-	74	-31.95	-	-	V
4	* 4.566	29.32	AD1	33.8	-32.7	30.42	54	-23.58	-	-	-	-	V
5	7.094	42.50	PK1	35.6	-31.6	46.50	-	-	-	-	68.2	-21.70	H
6	7.093	42.41	PK1	35.6	-31.6	46.41	-	-	-	-	68.2	-21.79	V

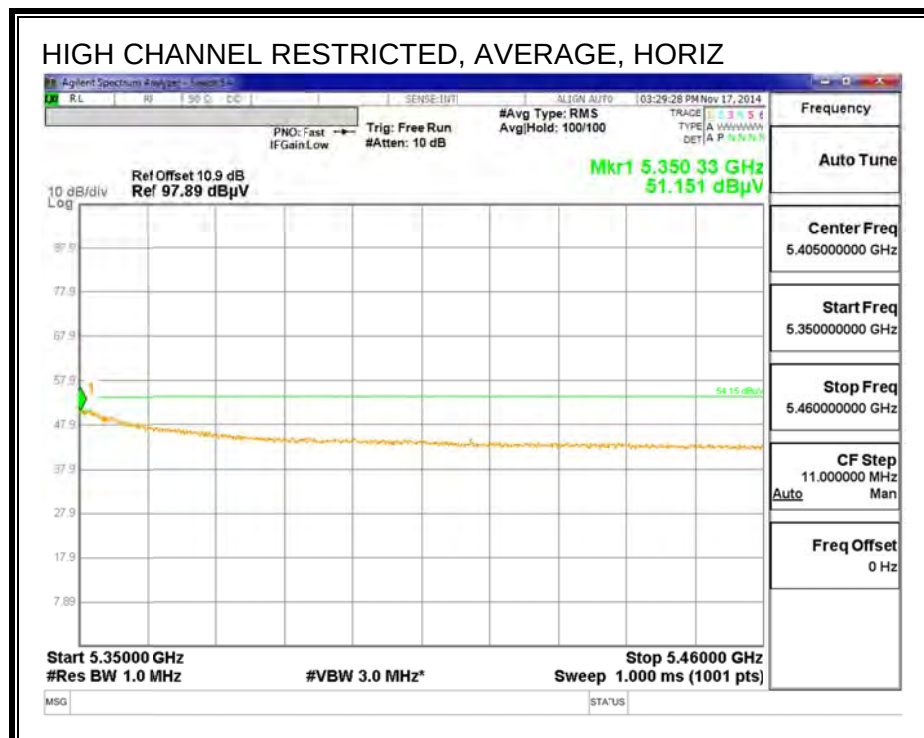
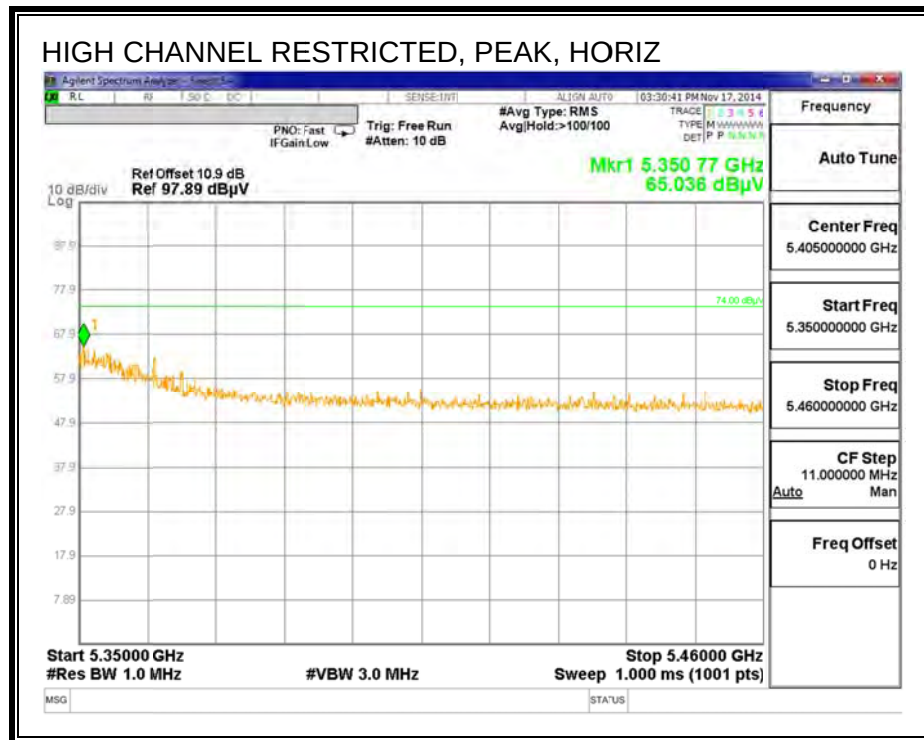
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

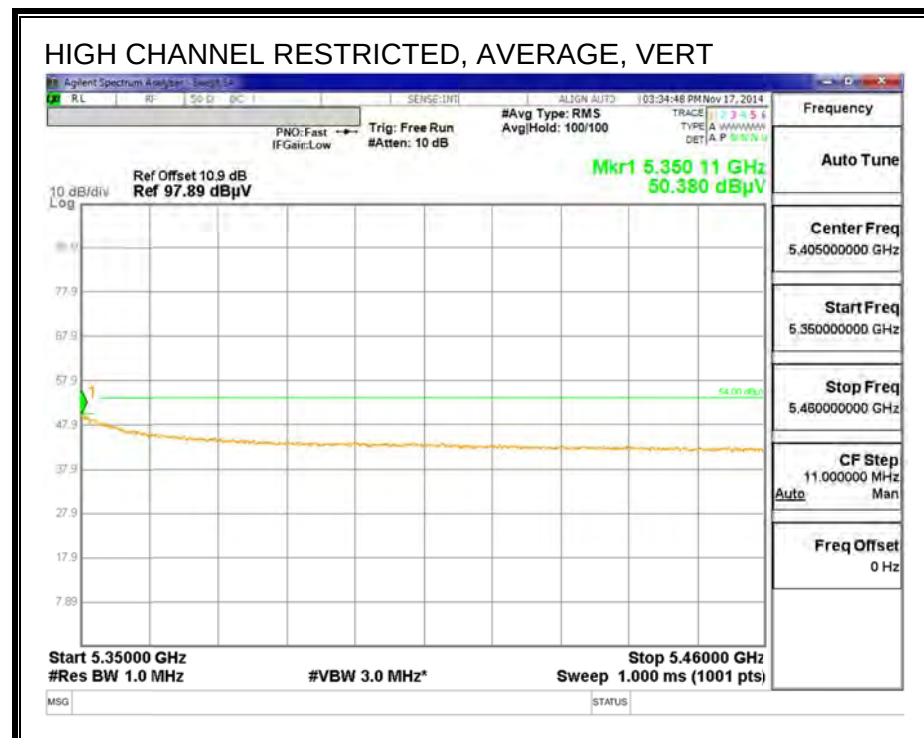
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

RESTRICTED BANEDGE (HIGH CHANNEL)



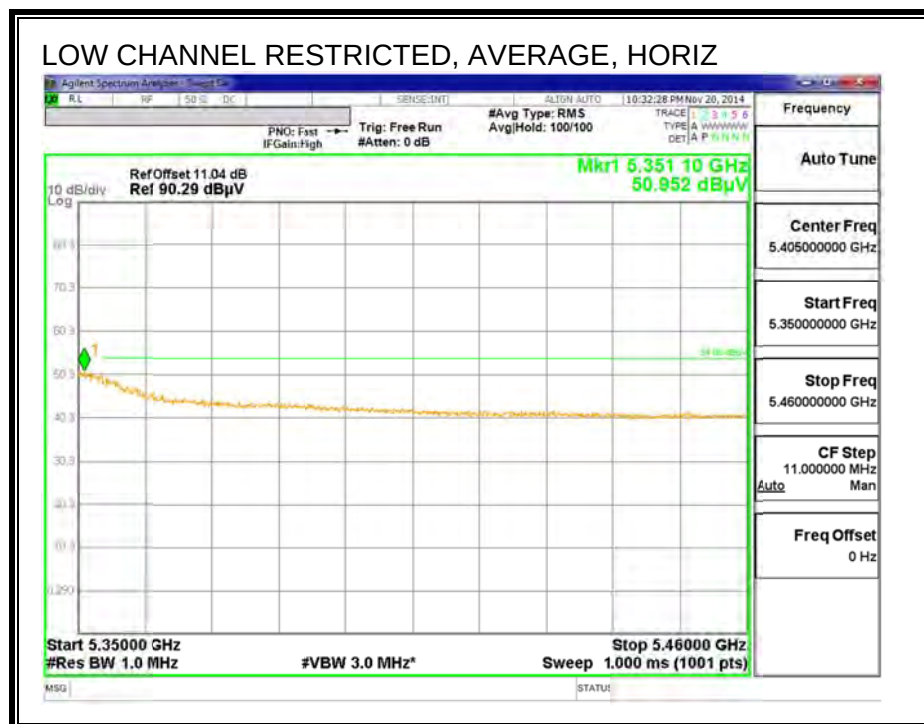
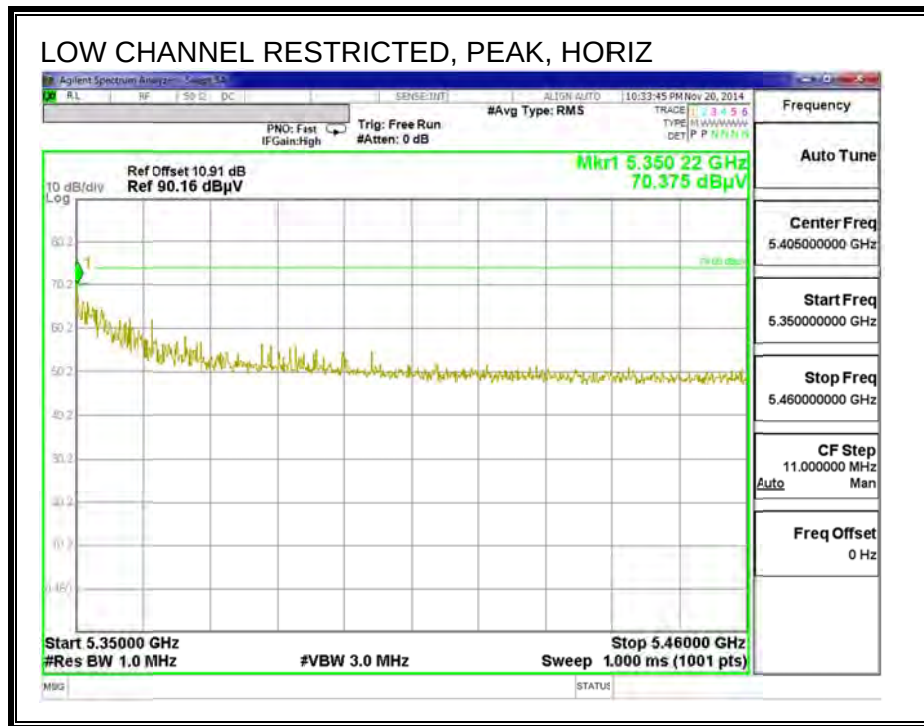


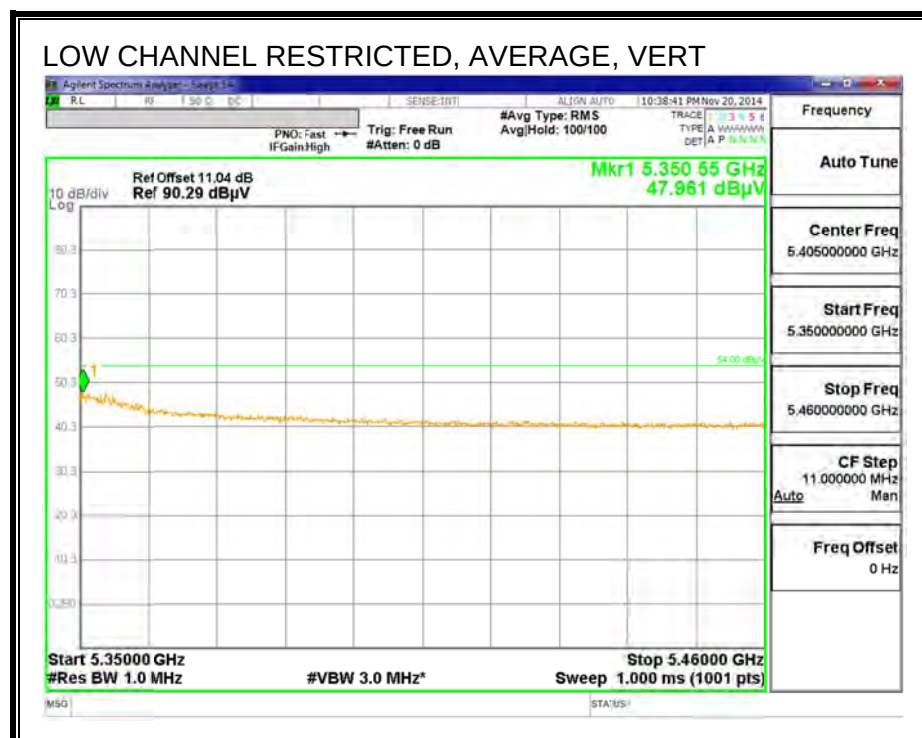
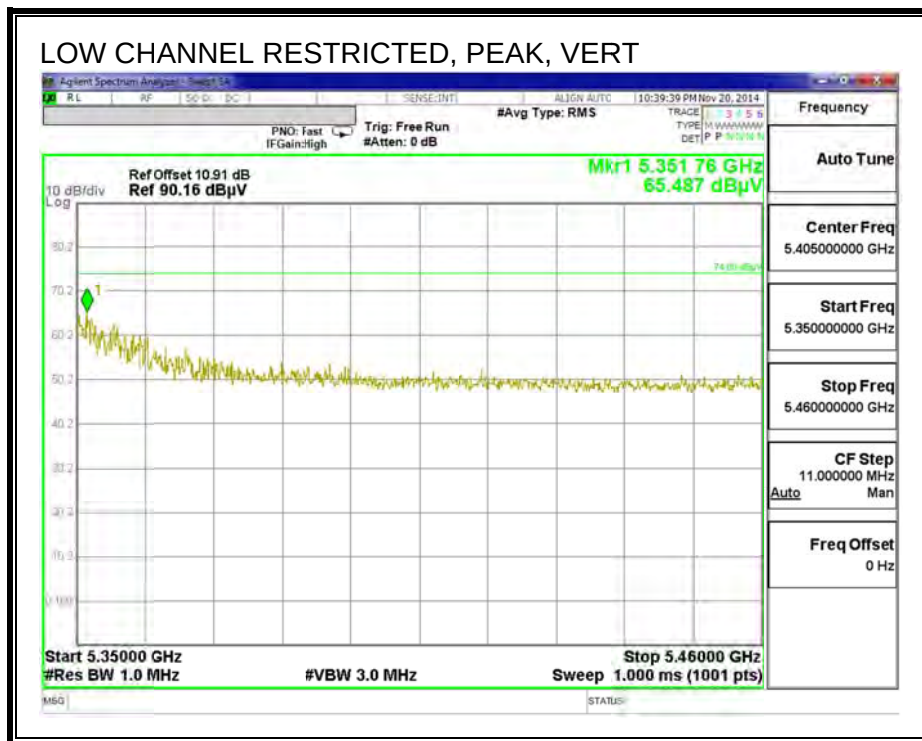
HARMONICS AND SPURIOUS EMISSIONS

Note: this test is covered on by testing to 11a 1Tx Mode.

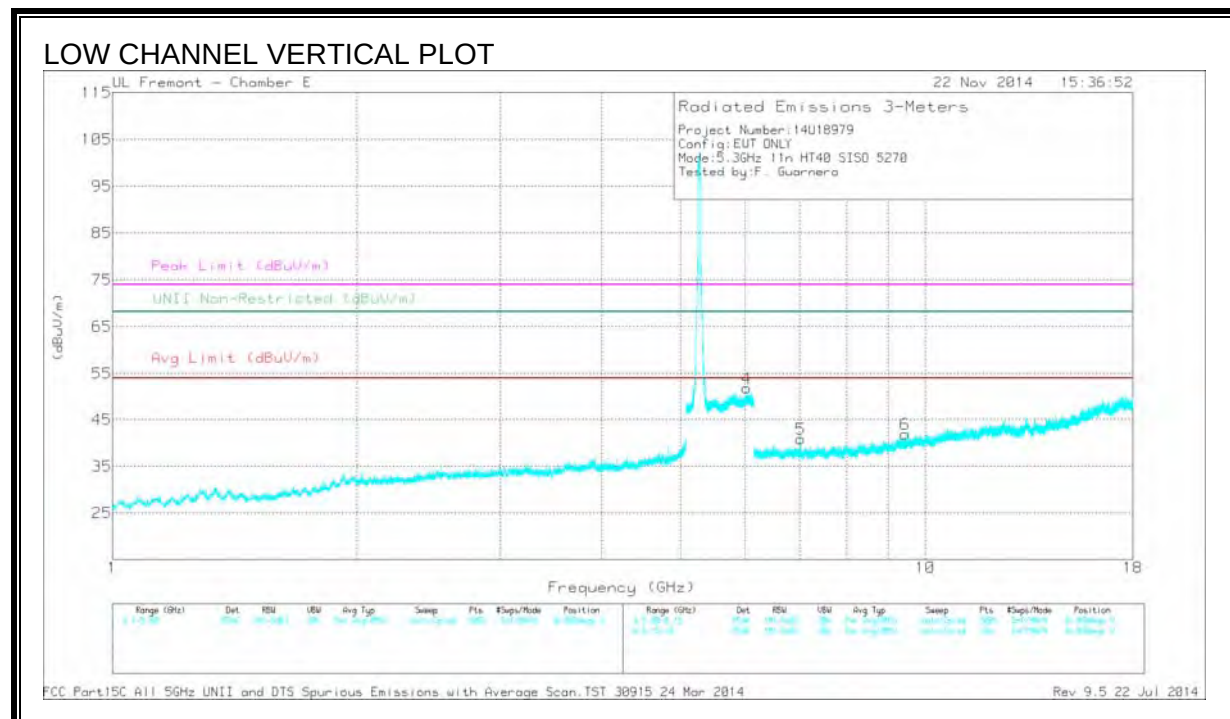
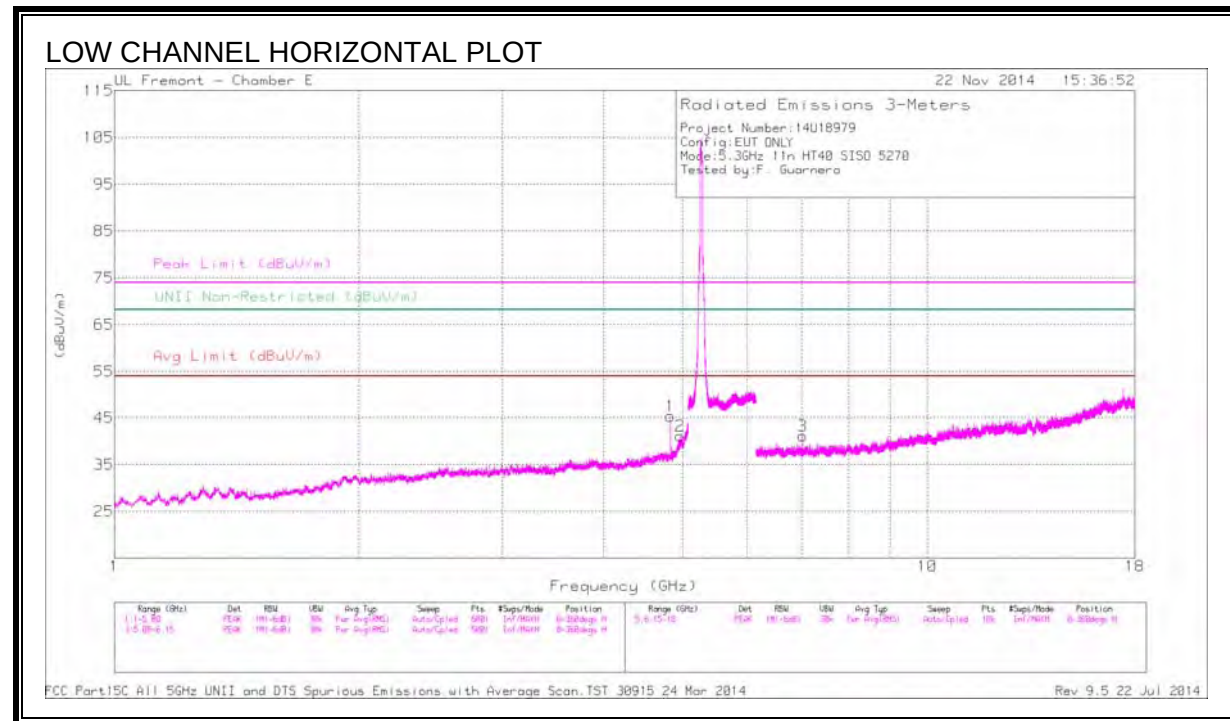
10.3.6. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.3 GHz BAND

RESTRICTED BANEDGE (LOW CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

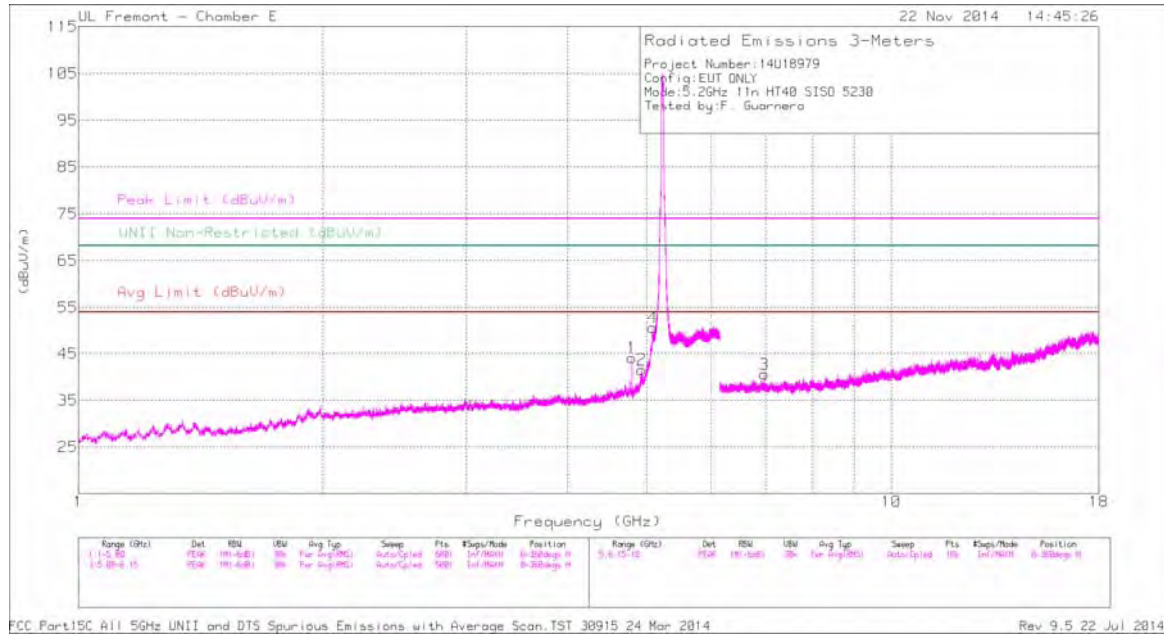
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.831	46.78	PK1	34.1	-30.3	0	50.58	-	-	74	-23.42	-	-	H
1	* 4.831	40.56	AD1	34.1	-30.3	.13	44.49	54	-9.51	-	-	-	-	H
2	* 4.970	44.55	PK1	34.1	-29.5	0	49.15	-	-	74	-24.85	-	-	H
2	* 4.968	33.26	AD1	34.1	-29.5	.13	37.99	54	-16.01	-	-	-	-	H
3	7.027	41.44	PK1	35.9	-28.5	0	48.84	-	-	-	-	68.2	-19.36	H
4	6.031	42.95	PK1	35.3	-20.6	0	57.65	-	-	-	-	68.2	-10.55	V
5	7.027	41.40	PK1	35.9	-28.5	0	48.80	-	-	-	-	68.2	-19.4	V
6	* 9.447	36.69	PK1	36.9	-25.9	0	47.69	-	-	74	-26.31			V
6	* 9.447	30.71	AD1	36.9	-25.9	.13	41.84	54	-12.16					V

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

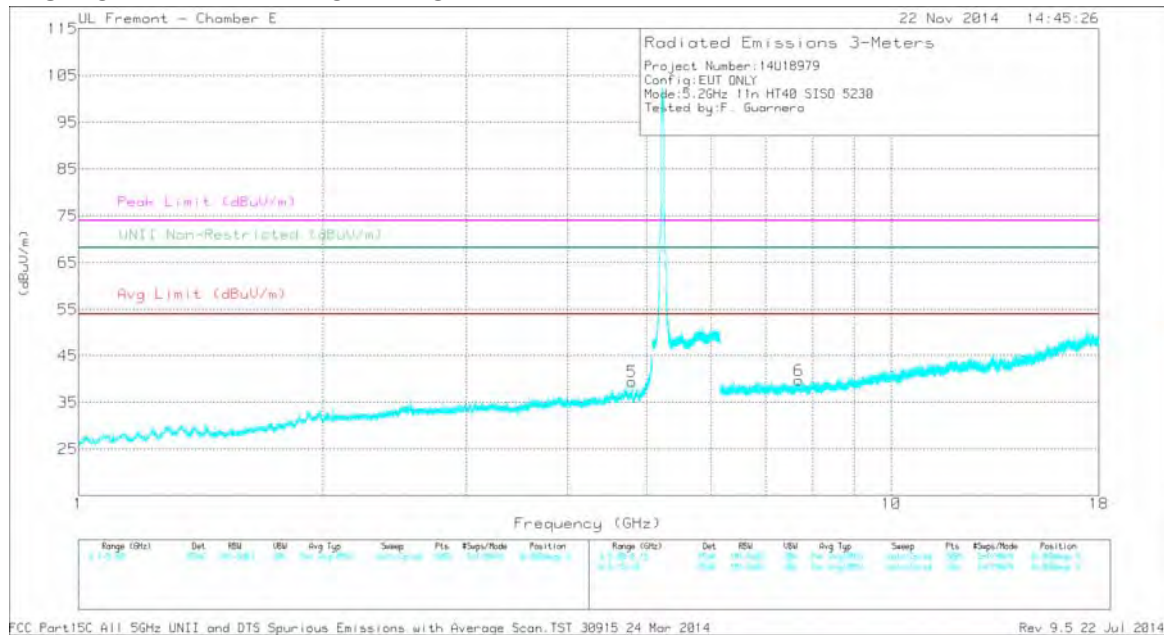
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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)	Polarity
1	* 4.794	46.89	PK1	34.1	-30.2	0	50.79	-	-	74	-23.21	-	-	H
1	* 4.794	40.18	AD1	34.1	-30.2	.13	44.21	54	-9.79	-	-	-	-	H
2	* 4.933	43.53	PK1	34.1	-29.7	0	47.93	-	-	74	-26.07	-	-	H
2	* 4.932	32.80	AD1	34.1	-29.7	.13	37.33	54	-16.67	-	-	-	-	H
3	6.973	41.26	PK1	35.9	-28.3	0	48.86	-	-	-	-	68.2	-19.34	H
4	* 5.086	46.39	PK1	34.1	-21.6	0	58.89	-	-	74	-15.11	-	-	H
4	* 5.085	34.45	AD1	34.1	-21.6	.13	47.08	54	-6.92	-	-	-	-	H
5	* 4.794	43.85	PK1	34.1	-30.2	0	47.75	-	-	74	-26.25	-	-	V
5	* 4.794	34.06	AD1	34.1	-30.2	.13	38.09	54	-15.91	-	-	-	-	V
6	* 7.699	38.12	PK1	35.9	-27.4	0	46.62	-	-	74	-27.38	-	-	V
6	* 7.698	27.07	AD1	35.9	-27.4	.13	35.70	54	-18.30	-	-	-	-	V

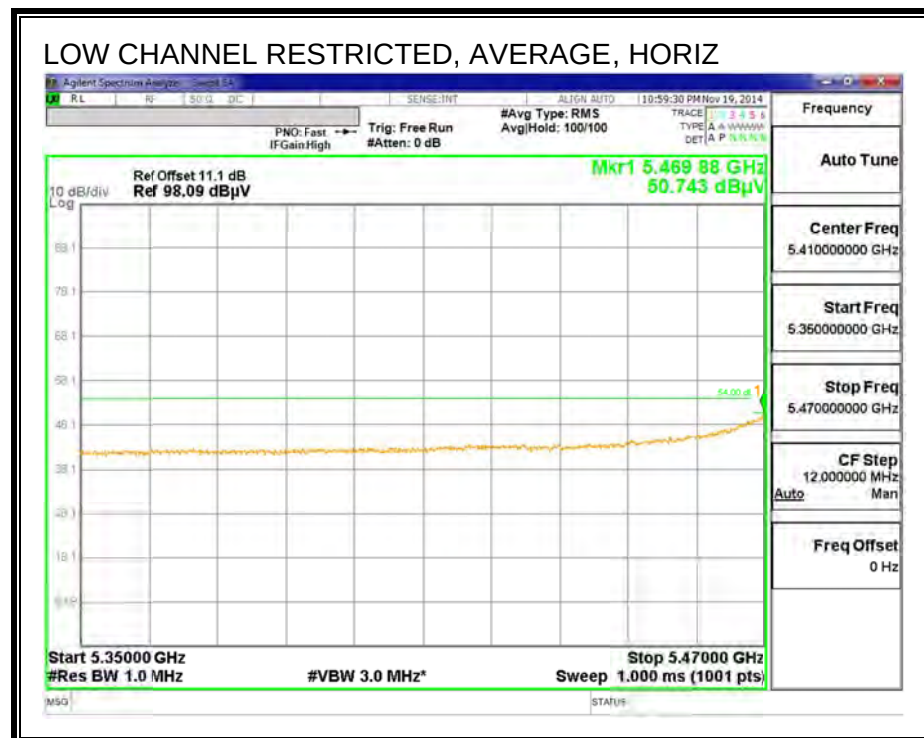
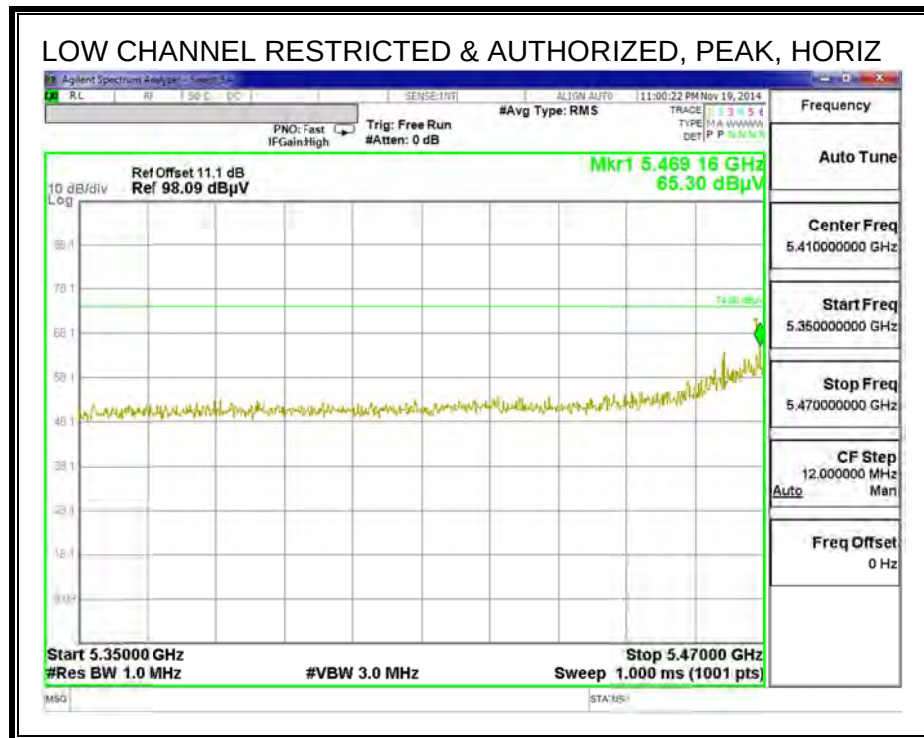
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

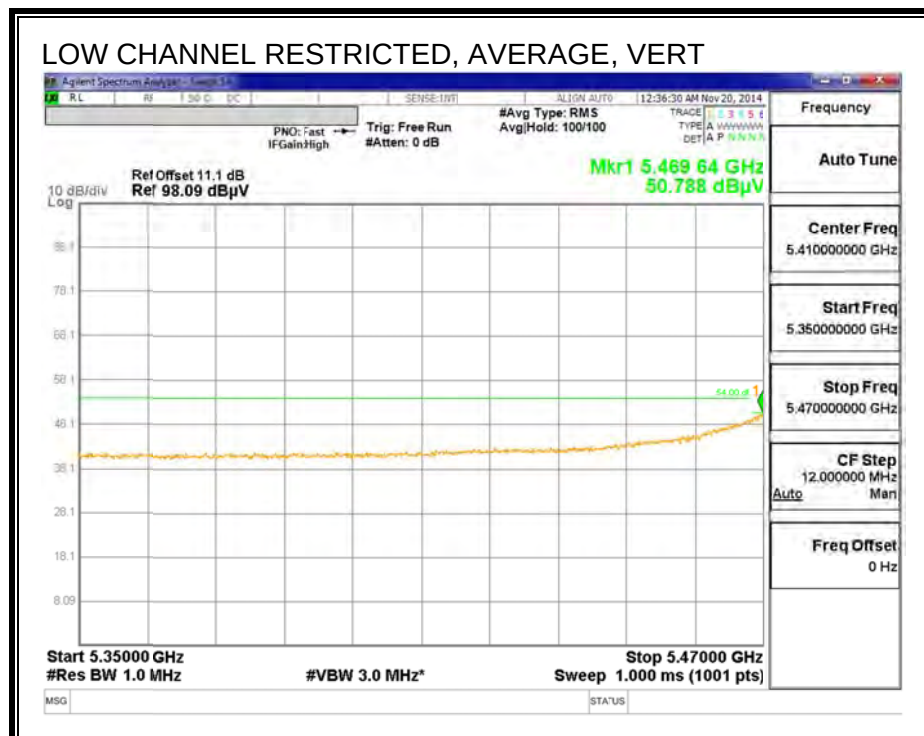
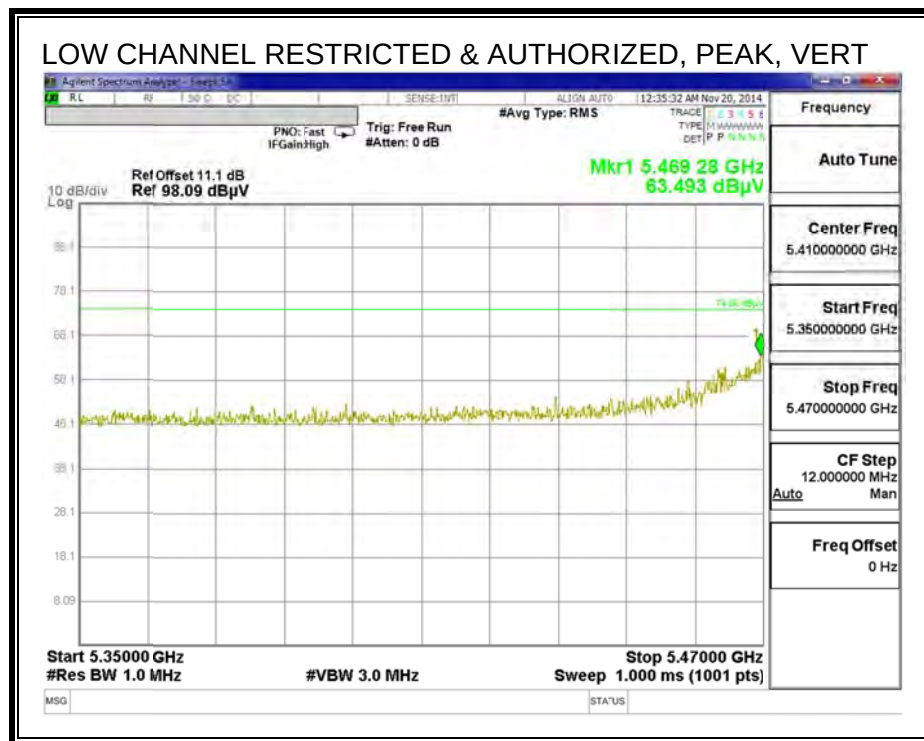
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

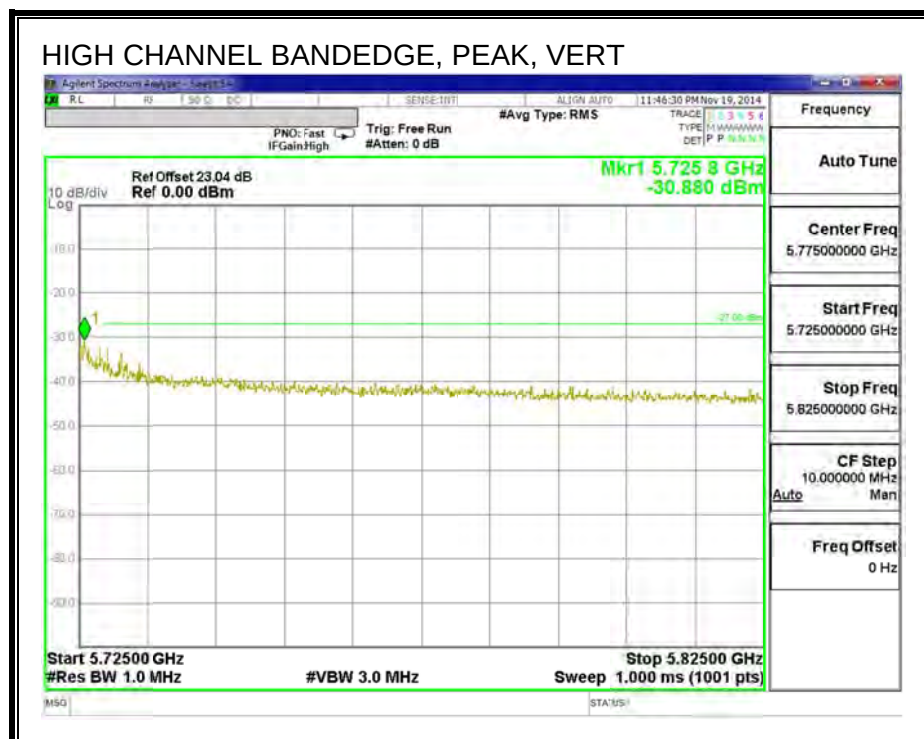
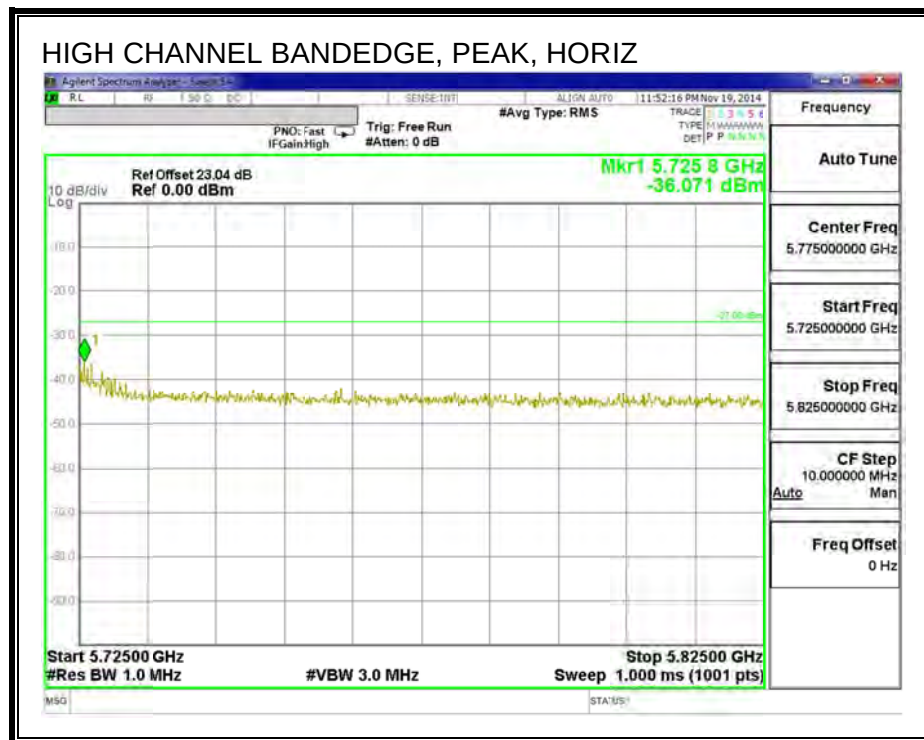
10.3.7. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

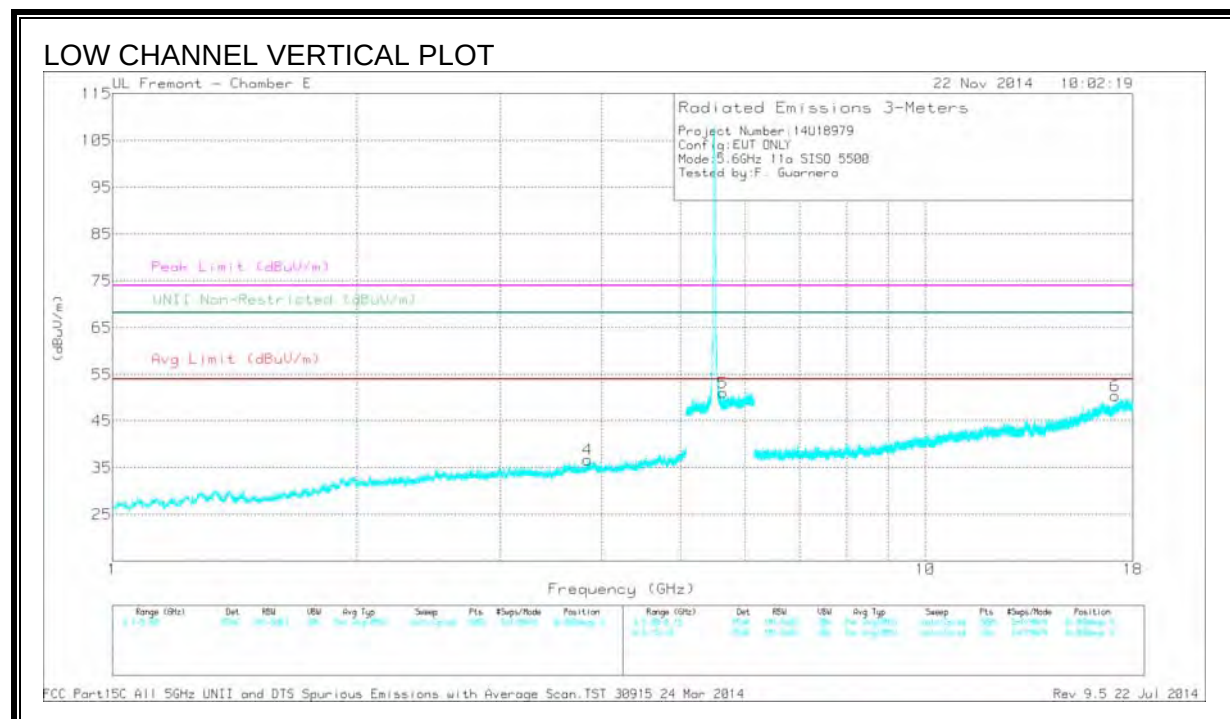
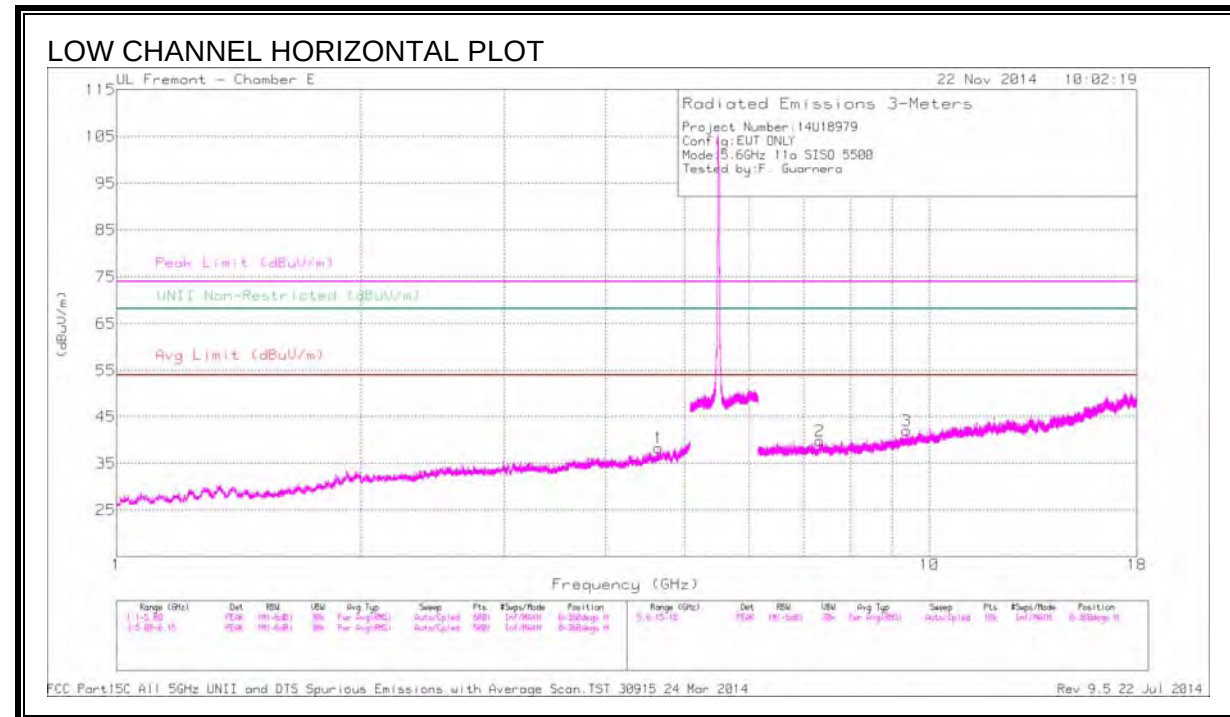




AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

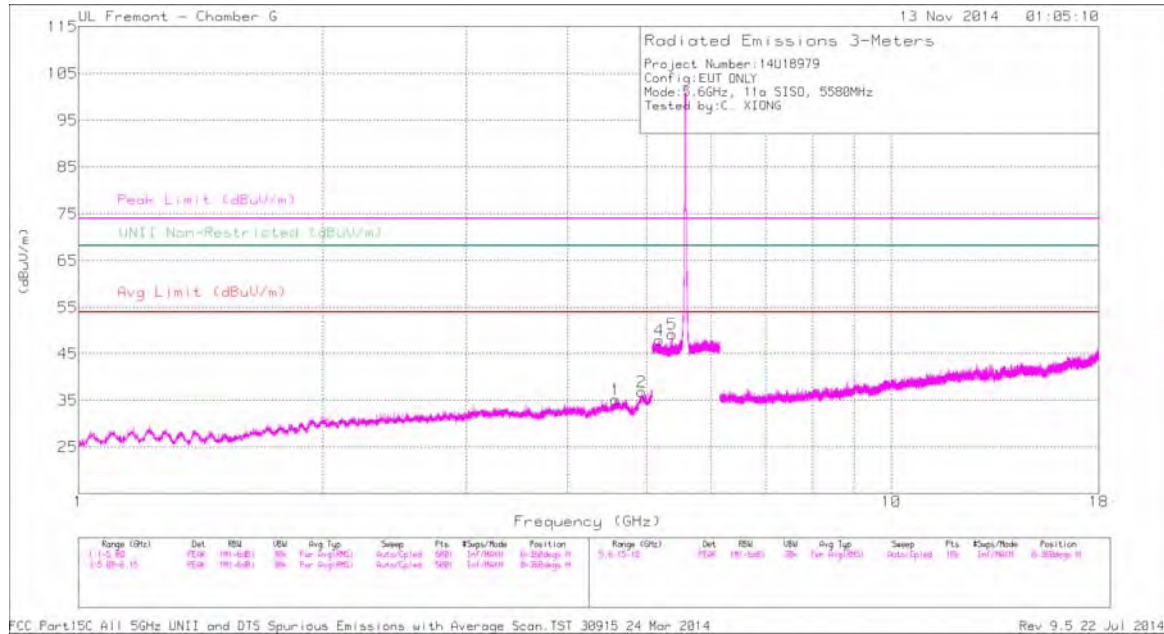
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.641	40.15	PK1	34.1	-29.9	44.35	-	-	74	-29.65	-	-	H
1	* 4.642	28.64	AD1	34.1	-29.9	32.84	54	-21.16	-	-	-	-	H
2	* 7.382	36.77	PK1	35.7	-27.6	46.87	-	-	74	-27.13	-	-	H
2	* 7.381	25.58	AD1	35.7	-27.6	33.68	54	-20.32	-	-	-	-	H
3	* 9.383	37.27	PK1	36.8	-25.5	48.57	-	-	74	-25.43	-	-	H
3	* 9.384	25.58	AD1	36.8	-25.5	36.88	54	-17.12	-	-	-	-	H
4	* 3.842	41.73	PK1	33.5	-31.4	43.83	-	-	74	-30.17	-	-	V
4	* 3.841	30.11	AD1	33.5	-31.4	32.21	54	-21.79	-	-	-	-	V
5	5.633	45.01	PK1	34.6	-21.0	58.61	-	-	-	-	68.2	-9.59	V
6	17.125	35.85	PK1	41.0	-20.1	56.75	-	-	-	-	68.2	-11.45	V

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

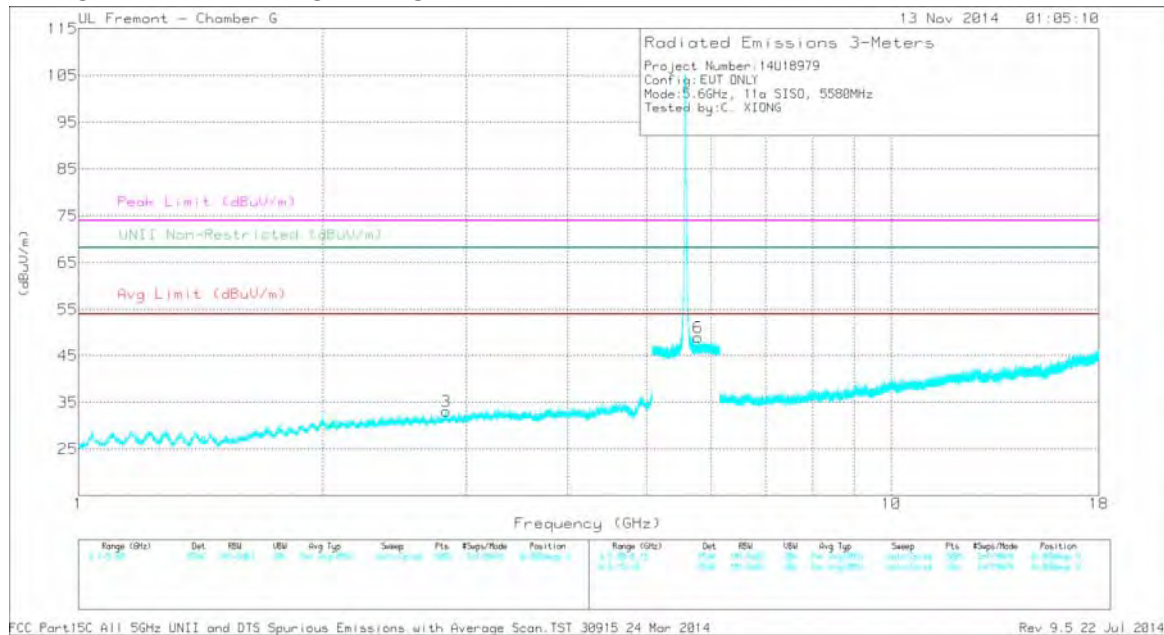
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

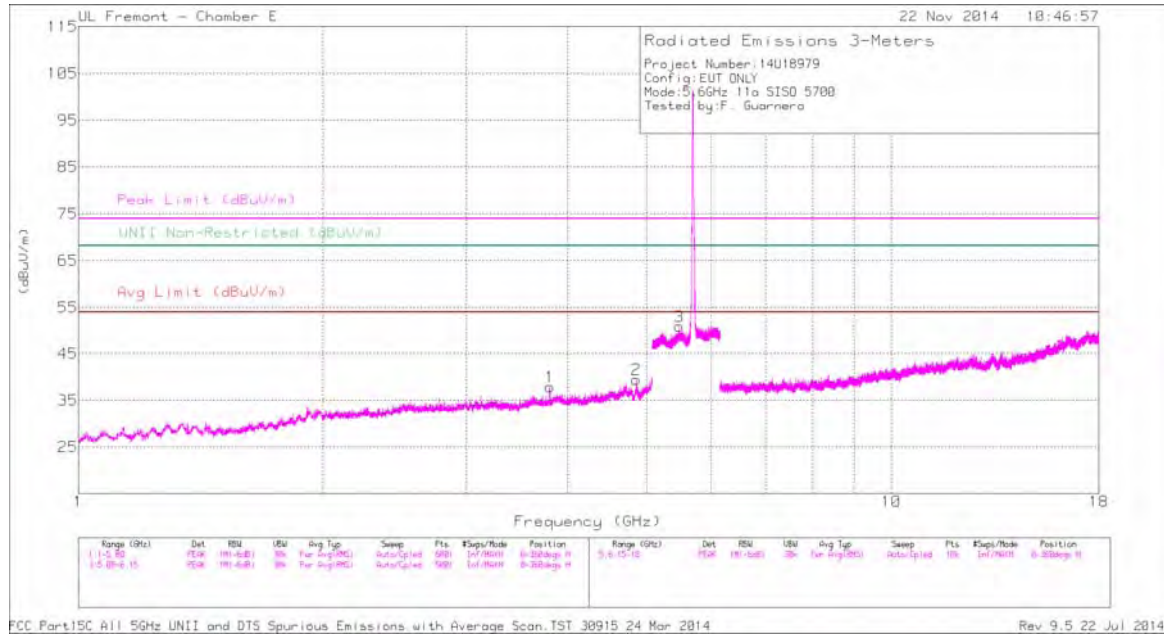
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 4.576	42.14	PK1	33.8	-32.7	43.24	-	-	74	-30.76	-	-	H
1	* 4.576	30.52	AD1	33.8	-32.7	31.62	54	-22.38	-	-	-	-	H
2	* 4.934	41.82	PK1	34.1	-31.7	44.22	-	-	74	-29.78	-	-	H
2	* 4.932	30.58	AD1	34.1	-31.7	32.98	54	-21.02	-	-	-	-	H
3	* 2.836	42.21	PK1	32.3	-33.8	40.71	-	-	74	-33.29	-	-	V
3	* 2.834	30.73	AD1	32.3	-33.7	29.33	54	-24.67	-	-	-	-	V
4	5.181	44.24	PK1	34.4	-23.6	55.04	-	-	-	-	68.2	-13.16	H
5	* 5.373	46.14	PK1	34.6	-23.7	57.04	-	-	74	-16.96	-	-	H
5	* 5.373	36.81	AD1	34.6	-23.7	47.71	54	-6.29	-	-	-	-	H
6	5.787	46.64	PK1	34.9	-23.5	58.04	-	-	-	-	68.2	-10.16	V

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

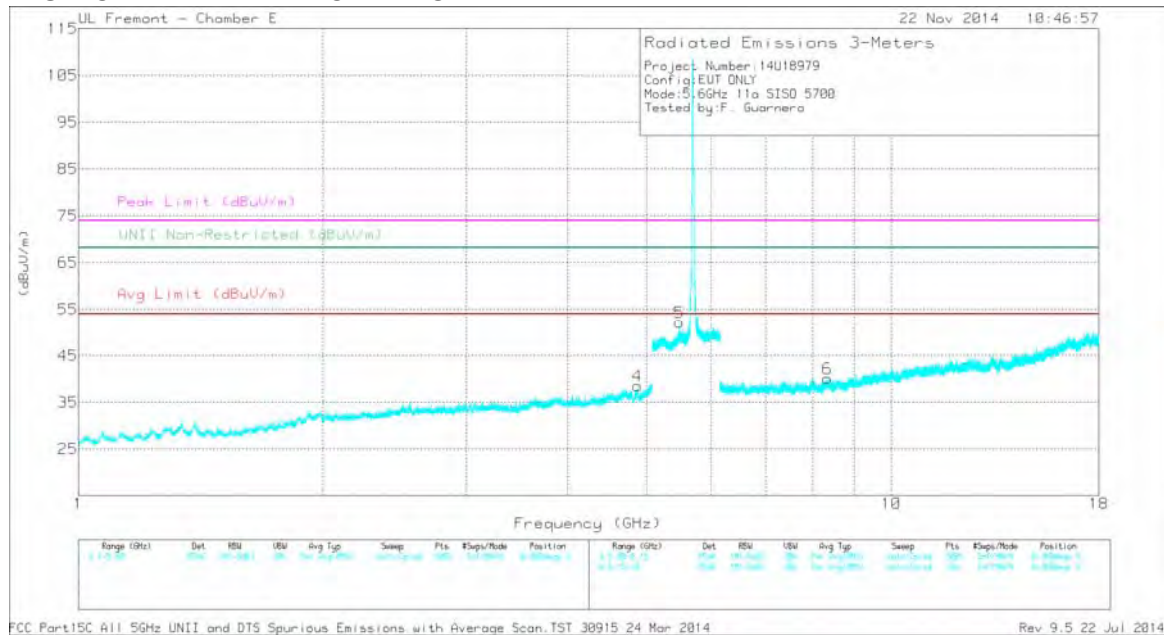
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (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)	Polarity
1	* 3.800	44.18	PK1	33.4	-32.0	45.58	-	-	74	-28.42	-	-	H
1	* 3.800	34.70	AD1	33.4	-32.0	36.10	54	-17.90	-	-	-	-	H
2	* 4.856	43.39	PK1	34.1	-30.5	46.99	-	-	74	-27.01	-	-	H
2	* 4.855	32.99	AD1	34.1	-30.5	36.59	54	-17.41	-	-	-	-	H
3	5.489	45.82	PK1	34.6	-20.7	59.72	-	-	-	-	68.2	-8.48	H
4	* 4.870	42.51	PK1	34.1	-30.1	46.51	-	-	74	-27.49	-	-	V
4	* 4.870	30.37	AD1	34.1	-30.1	34.37	54	-19.63	-	-	-	-	V
5	5.489	46.90	PK1	34.6	-20.7	60.80	-	-	-	-	68.2	-7.40	V
6	* 8.350	38.82	PK1	35.9	-27.3	47.42	-	-	74	-26.58	-	-	V
6	* 8.348	27.26	AD1	35.9	-27.3	35.86	54	-18.14	-	-	-	-	V

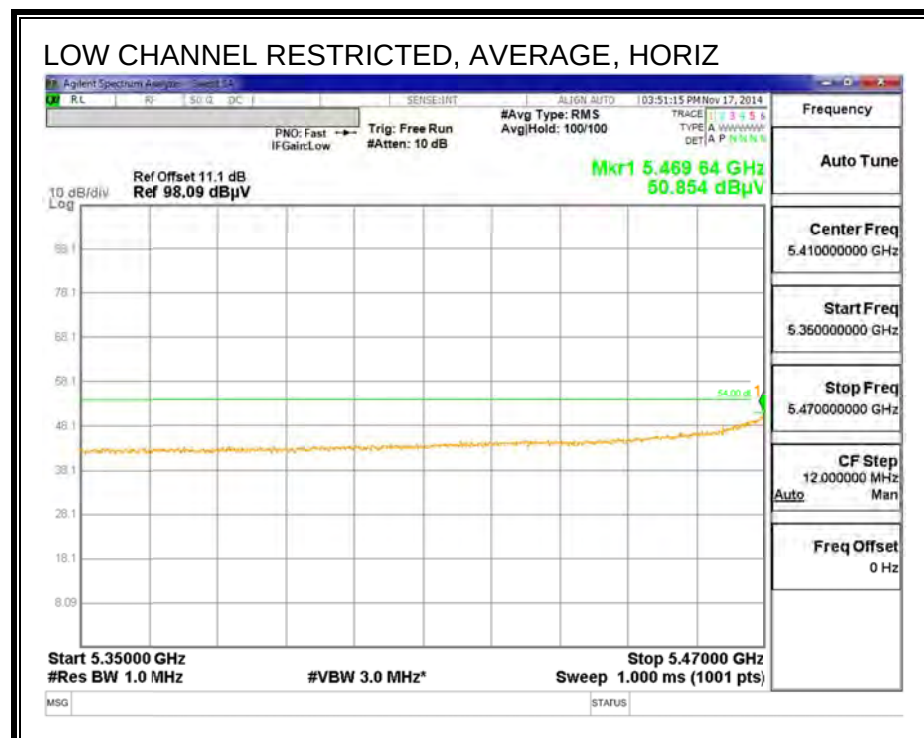
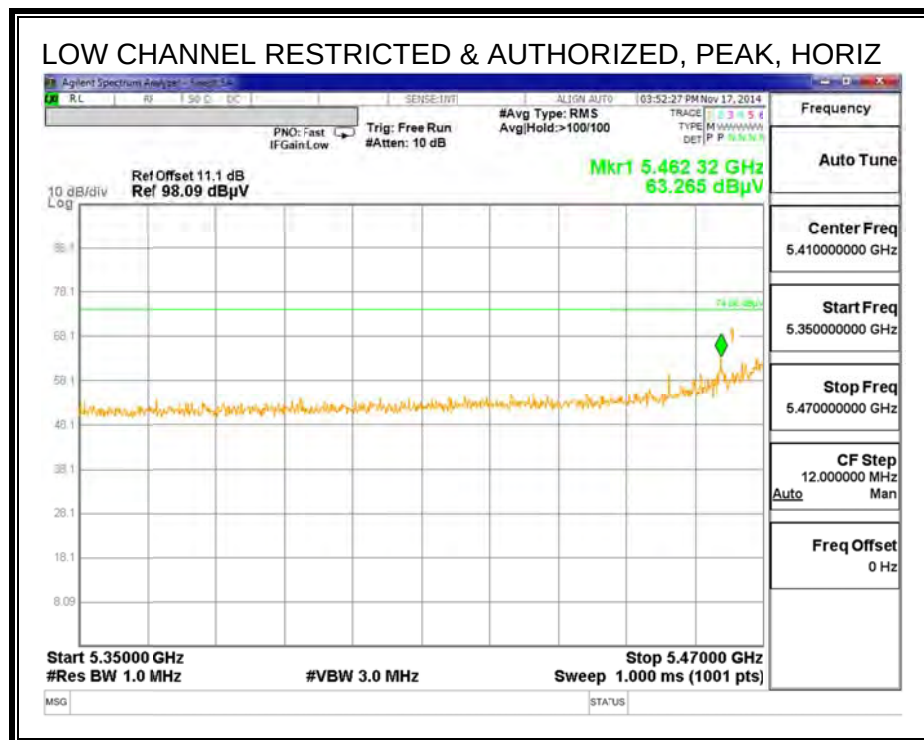
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

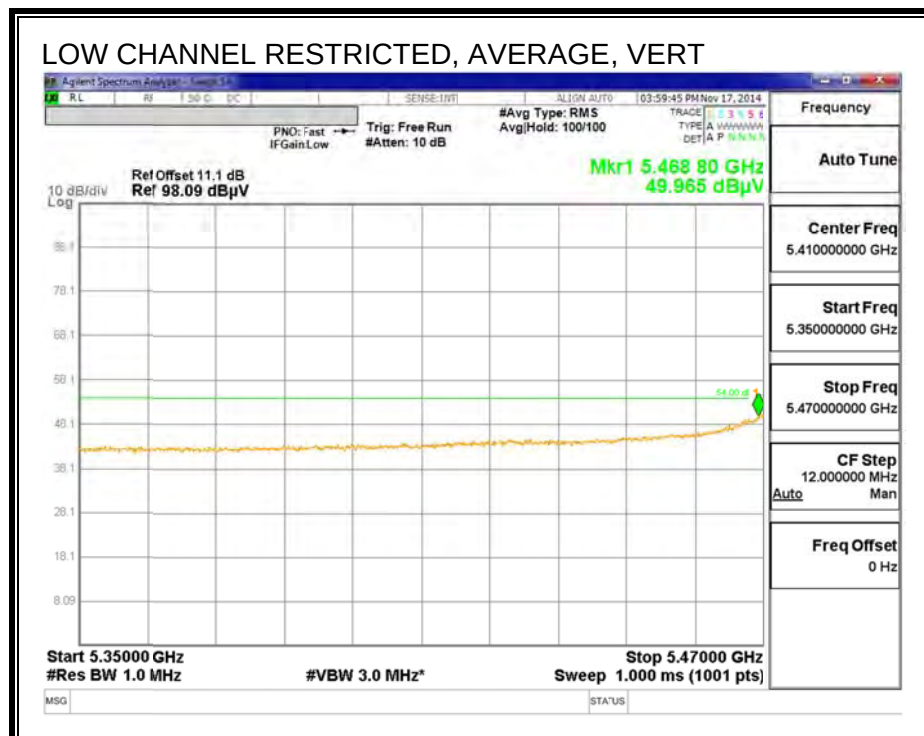
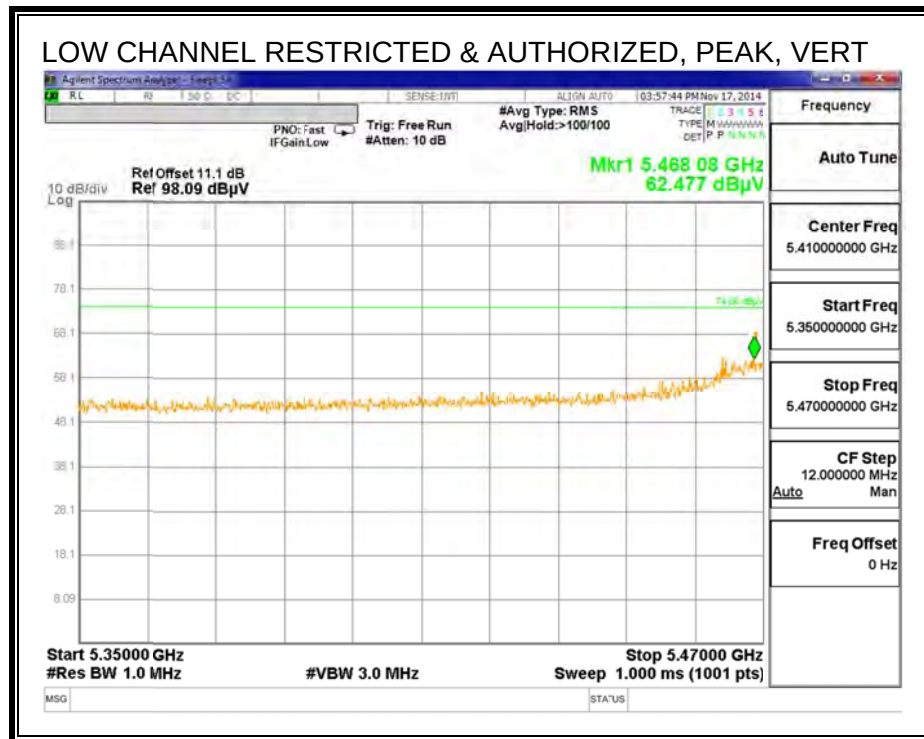
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

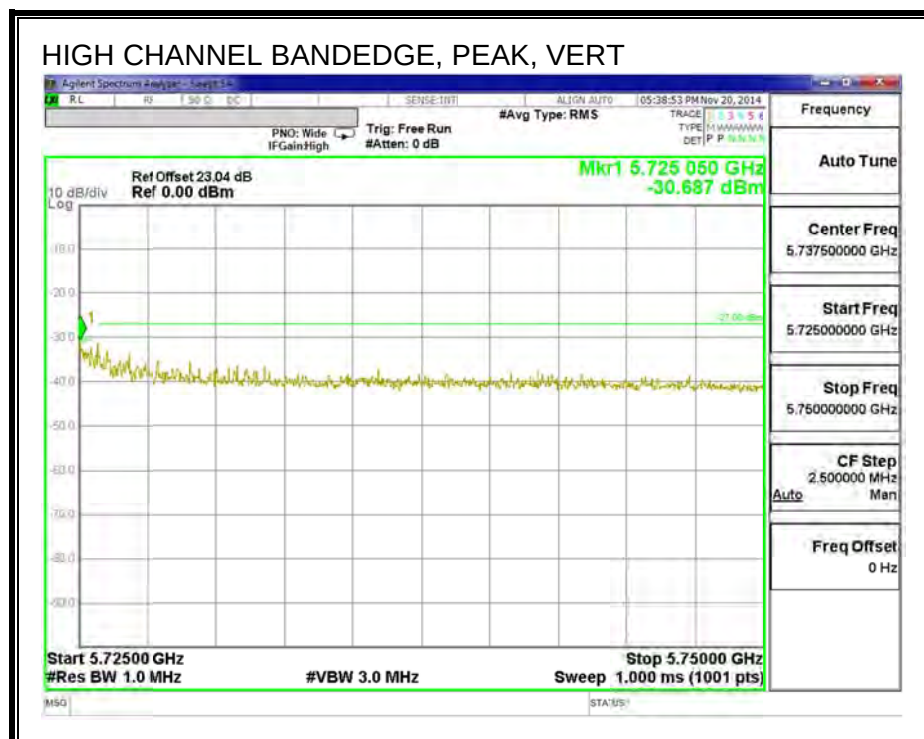
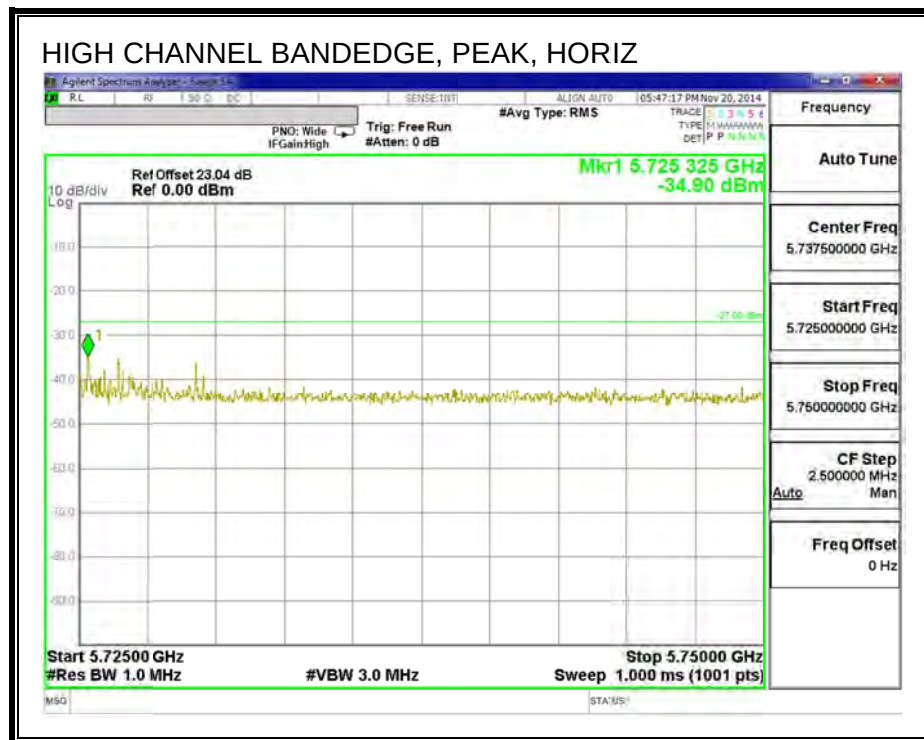
10.3.8. TX ABOVE 1 GHz 802.11n HT20 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)





AUTHORIZED BANDEDGE (HIGH CHANNEL)

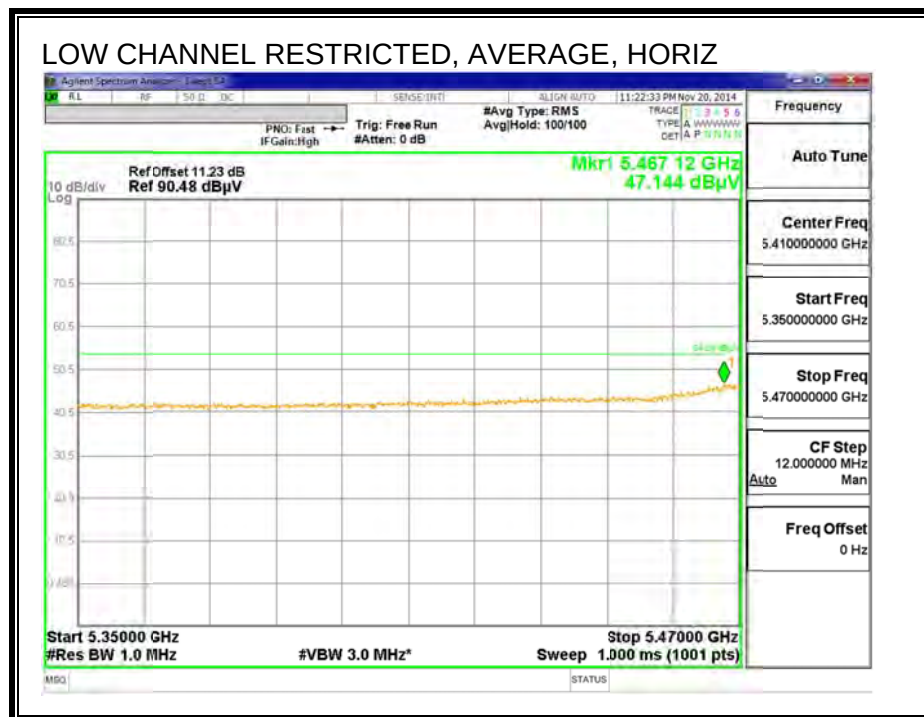
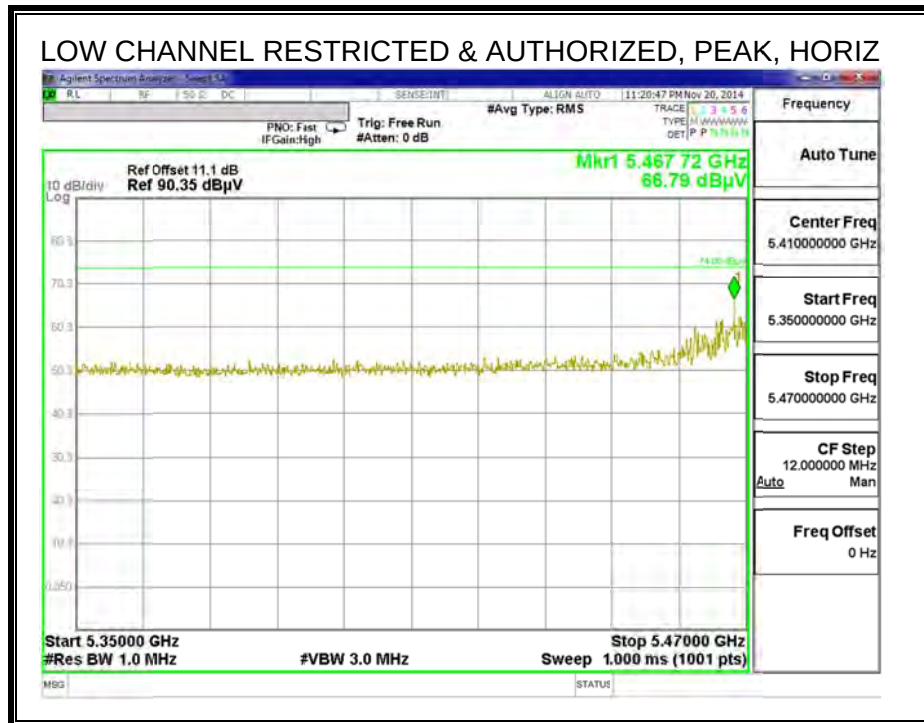


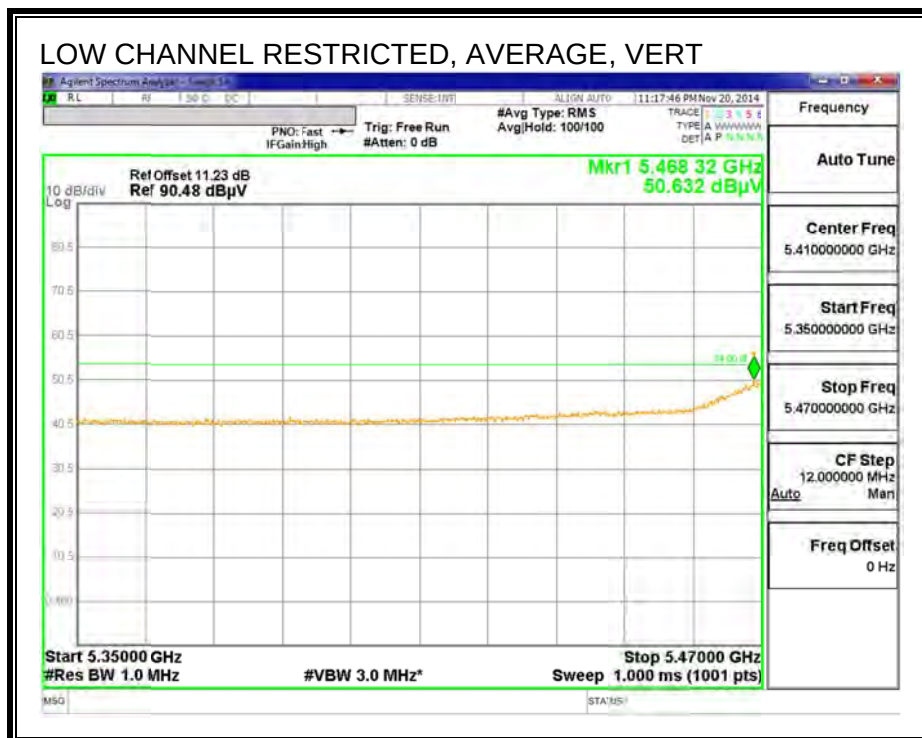
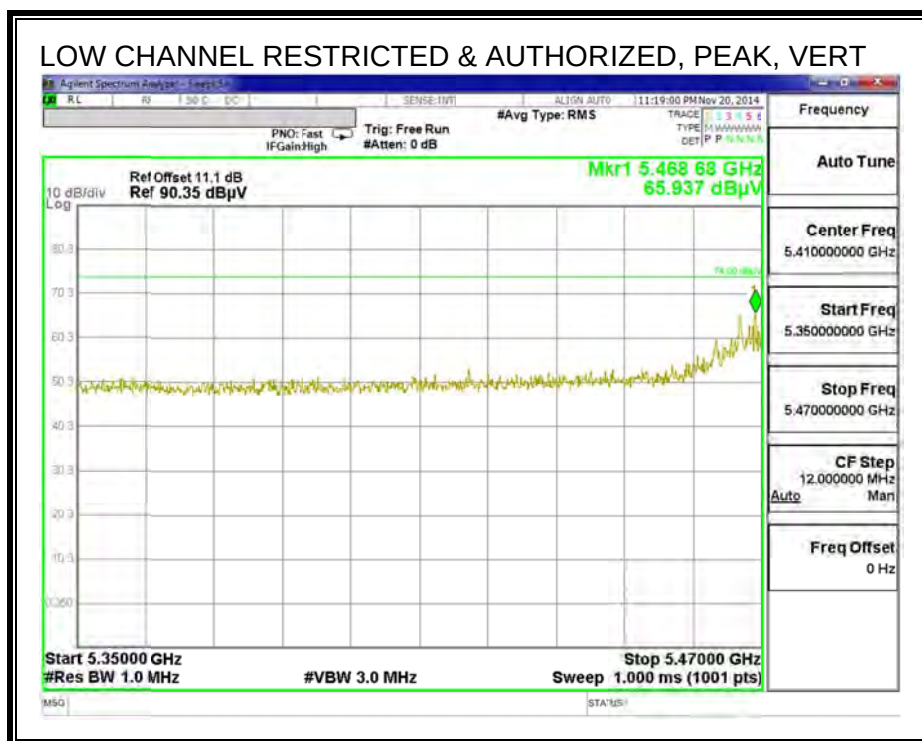
HARMONICS AND SPURIOUS EMISSIONS

Note: this test is covered on by testing to 11a 1Tx Mode.

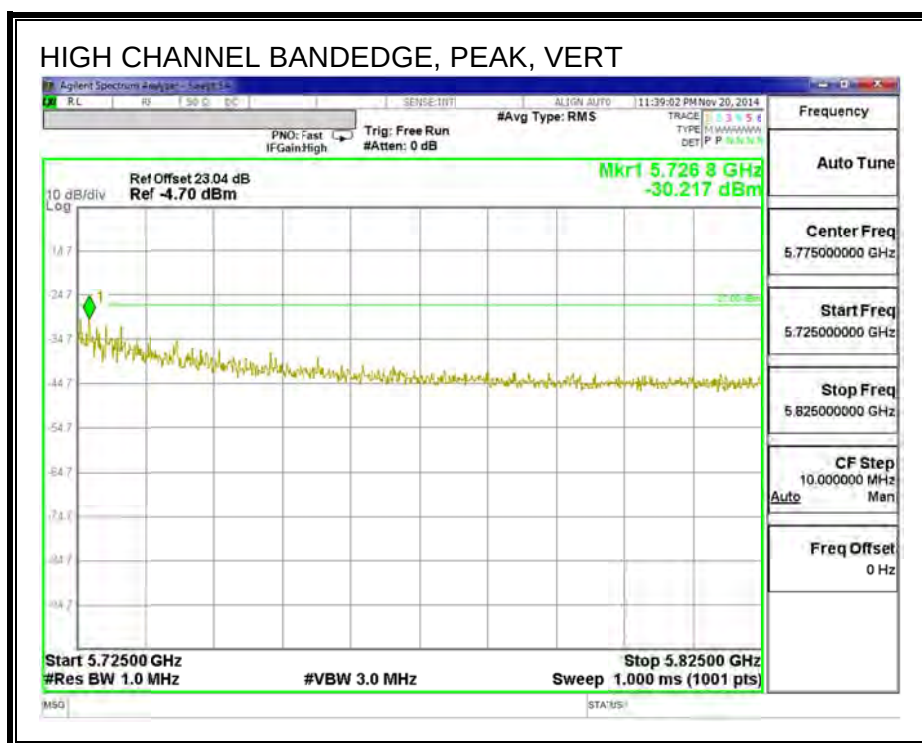
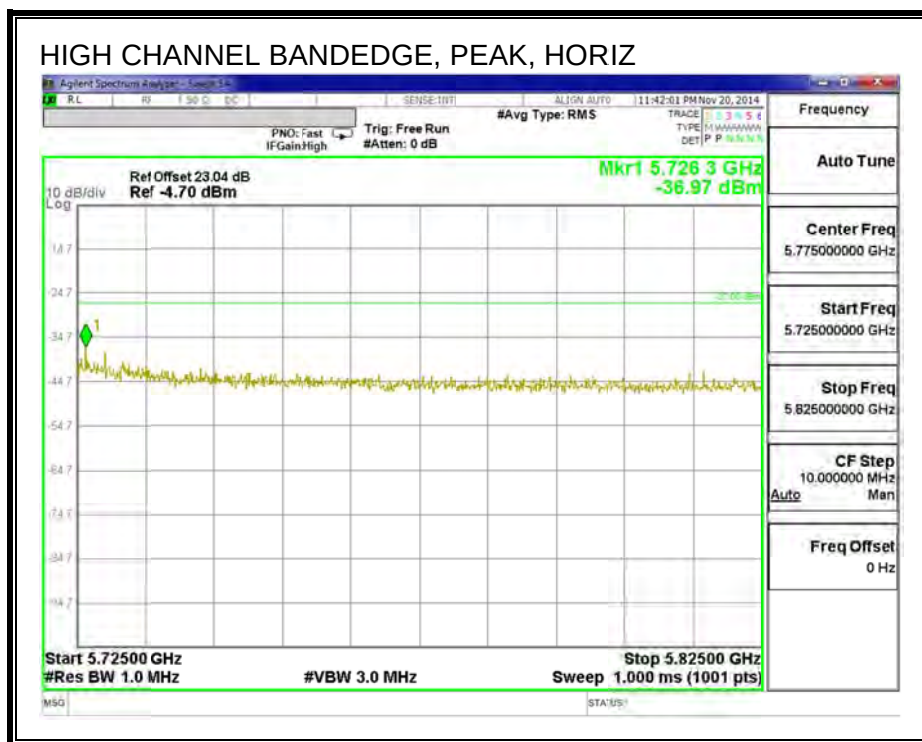
10.3.9. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

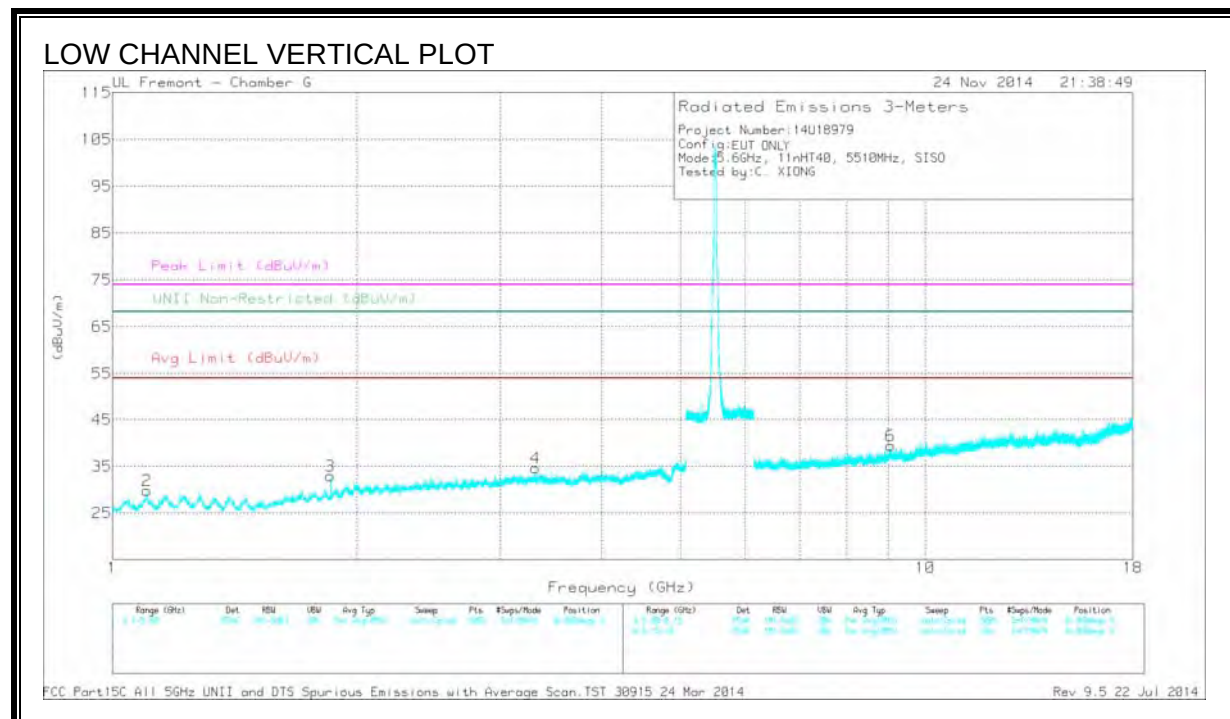
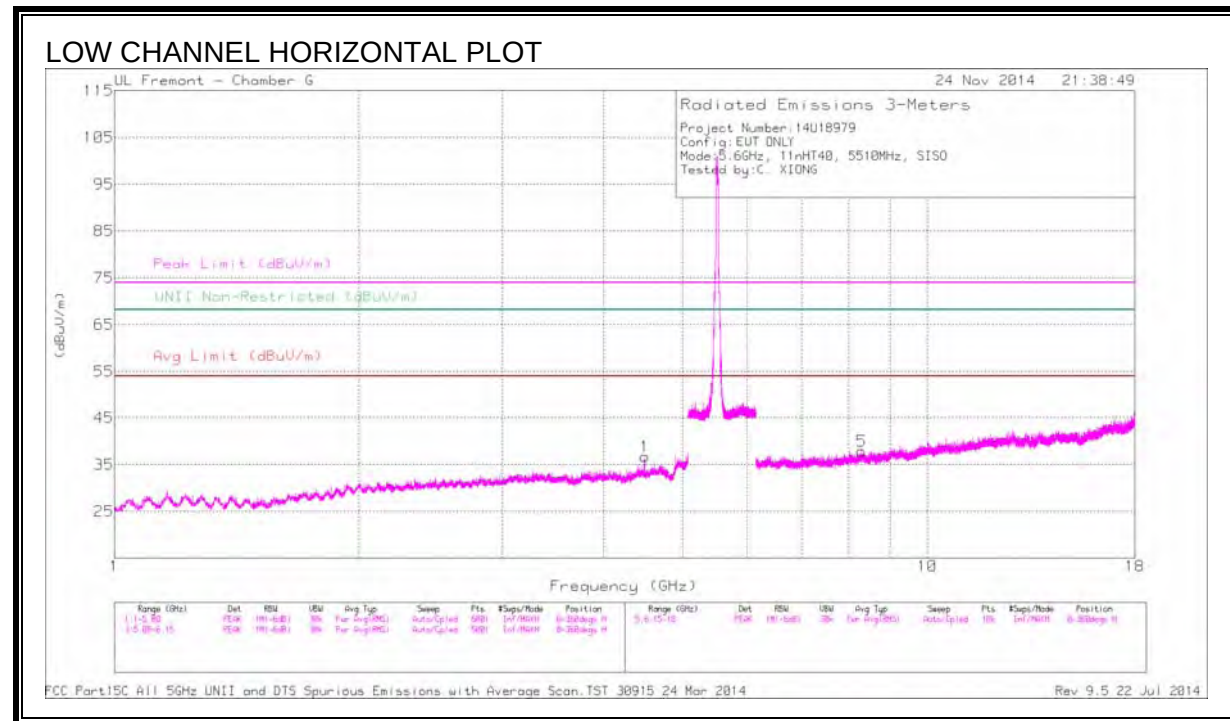




AUTHORIZED BANDEDGE (HIGH CHANNEL)



HARMONICS AND SPURIOUS EMISSIONS



DATA

Radiated Emissions

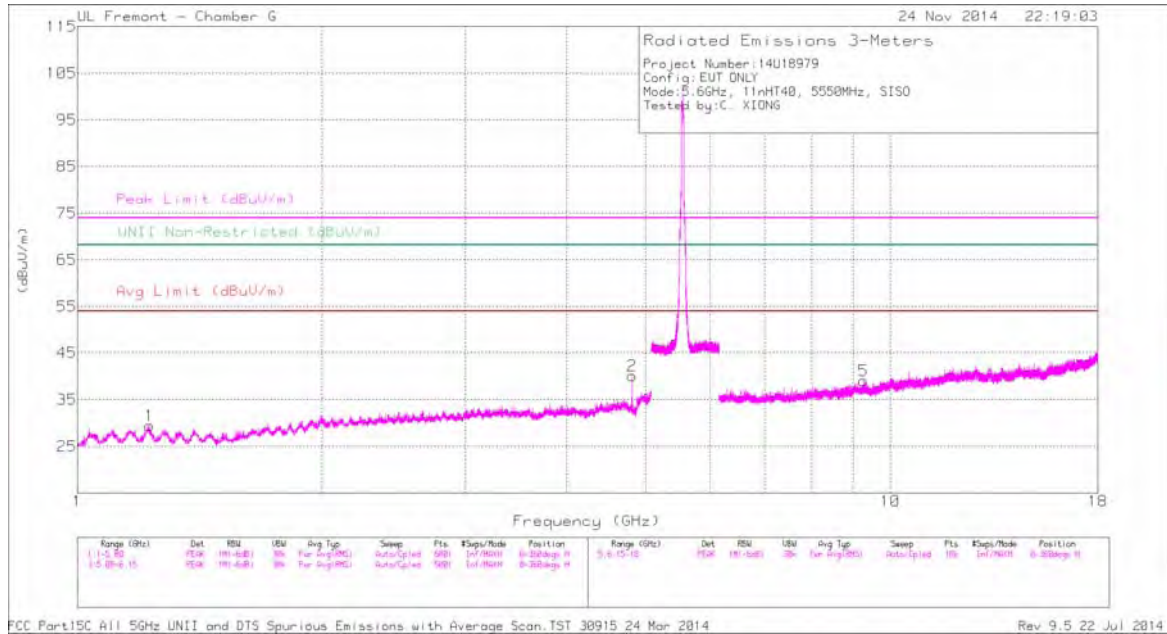
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	4.489	43.72	PK1	33.7	-33.3	0	44.12	-	-	-	-	68.2	-24.08	H
2	* 1.101	44.41	PK1	28.5	-35.6	0	37.31	-	-	74	-36.69	-	-	V
2	* 1.101	32.17	AD1	28.5	-35.6	.13	25.20	54	-28.8	-	-	-	-	V
3	1.856	42.46	PK1	30.3	-35.4	0	37.36	-	-	-	-	68.2	-30.84	V
4	3.315	41.39	PK1	32.9	-33.5	0	40.79	-	-	-	-	68.2	-27.41	V
5	* 8.296	38.52	PK1	35.8	-29.4	0	44.92	-	-	74	-29.08	-	-	H
5	* 8.297	27.22	AD1	35.8	-29.4	.13	33.75	54	-20.25	-	-	-	-	H
6	* 9.064	37.73	PK1	36.4	-28.4	0	45.73	-	-	74	-28.27	-	-	V
6	* 9.062	26.53	AD1	36.4	-28.3	.13	34.76	54	-19.24	-	-	-	-	V

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

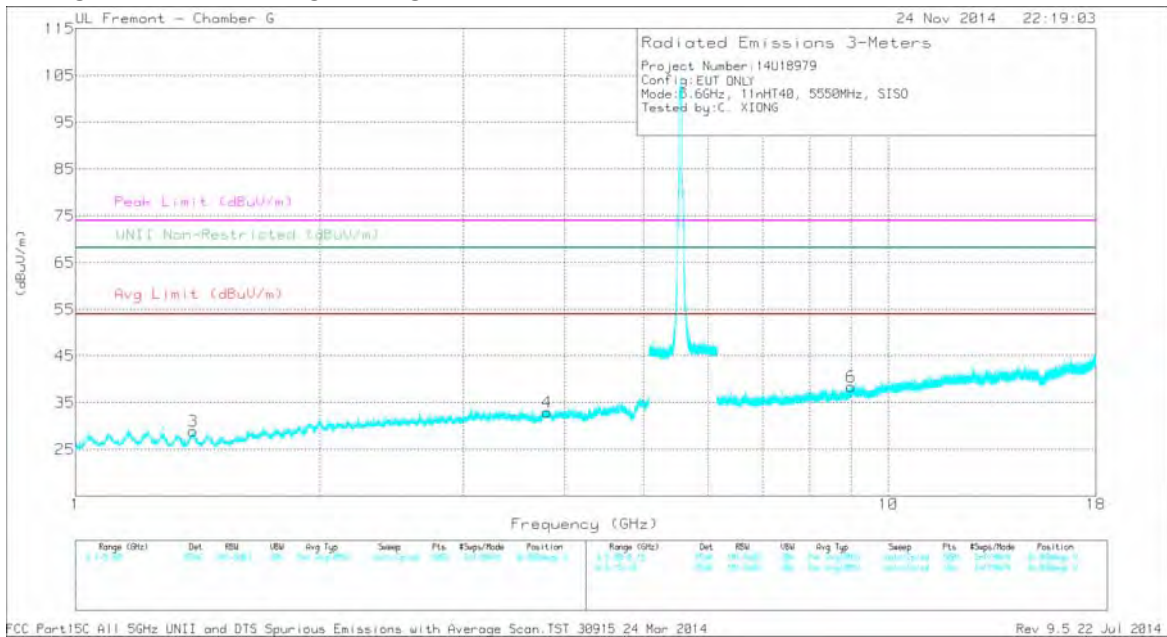
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

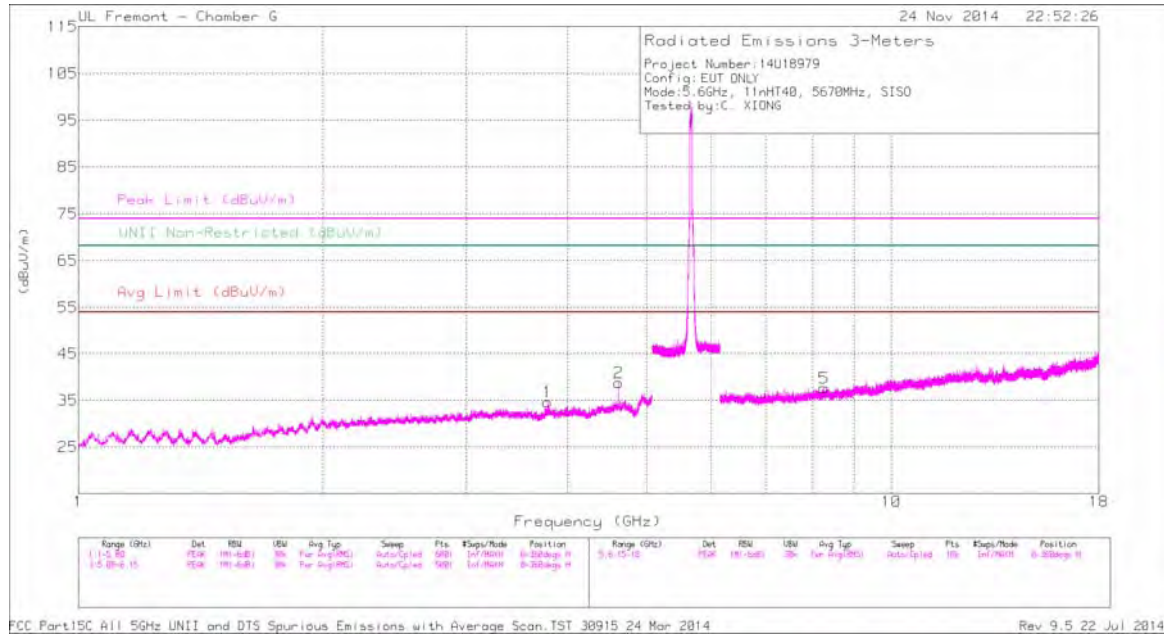
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Polarity
1	* 1.225	43.69	PK1	29.1	-35.6	0	37.19	-	-	74	-36.81	-	-	H
1	* 1.225	32.21	AD1	29.1	-35.6	.13	25.84	54	-28.16	-	-	-	-	H
2	* 4.810	45.76	PK1	34.1	-32.8	0	47.06	-	-	74	-26.94	-	-	H
2	* 4.810	39.48	AD1	34.1	-32.8	.13	40.91	54	-13.09	-	-	-	-	H
3	* 1.394	43.27	PK1	28.5	-35.1	0	36.67	-	-	74	-37.33	-	-	V
3	* 1.395	32.12	AD1	28.4	-35.0	.13	25.65	54	-28.35	-	-	-	-	V
4	* 3.804	42.33	PK1	33.0	-33.2	0	42.13	-	-	74	-31.87	-	-	V
4	* 3.805	29.94	AD1	33.0	-33.2	.13	29.87	54	-24.13	-	-	-	-	V
5	9.271	39.52	PK1	36.5	-28.7	0	47.32	-	-	-	-	68.2	-20.88	H
6	8.997	39.93	PK1	36.4	-29.1	0	47.23	-	-	-	-	68.2	-20.97	V

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

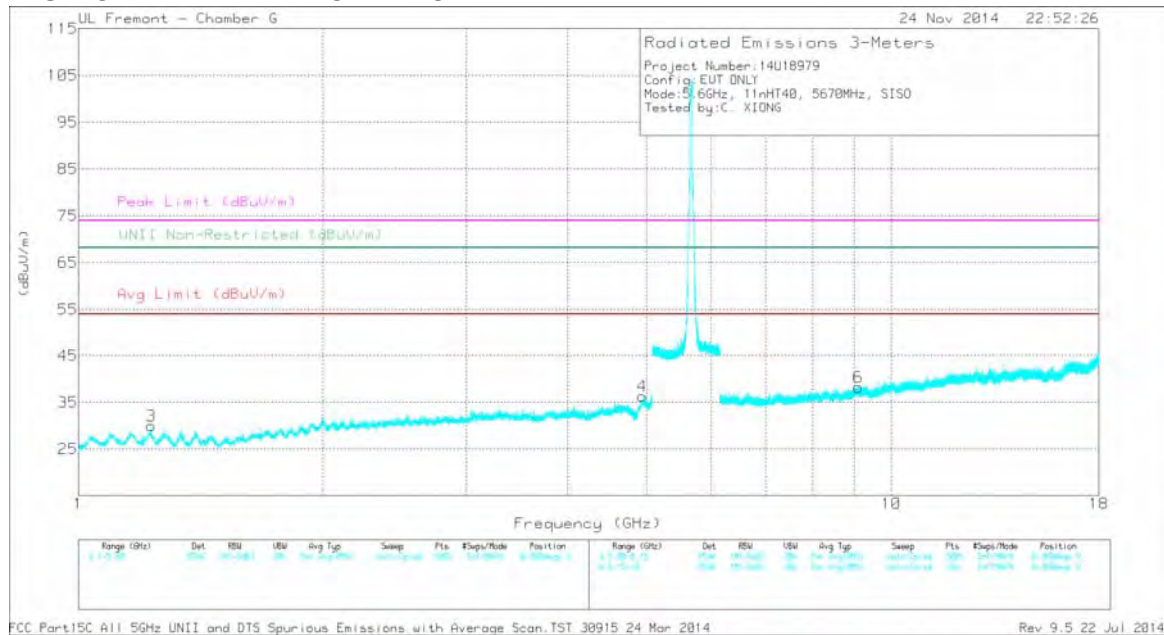
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fitr/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)	Polarity
1	* 3.780	42.43	PK1	33.0	-33.5	0	41.93	-	-	74	-32.07	-	-	H
1	* 3.780	33.17	AD1	33.0	-33.5	.13	32.80	54	-21.2	-	-	-	-	H
2	* 4.620	44.33	PK1	33.9	-32.7	0	45.53	-	-	74	-28.47	-	-	H
2	* 4.620	36.05	AD1	33.9	-32.7	.13	37.38	54	-16.62	-	-	-	-	H
3	* 1.224	43.27	PK1	29.1	-35.6	0	36.77	-	-	74	-37.23	-	-	V
3	* 1.226	31.79	AD1	29.1	-35.6	.13	25.42	54	-28.58	-	-	-	-	V
4	* 4.942	41.05	PK1	34.1	-31.7	0	43.45	-	-	74	-30.55	-	-	V
4	* 4.942	29.89	AD1	34.1	-31.7	.13	32.42	54	-21.58	-	-	-	-	V
5	* 8.266	38.86	PK1	35.8	-29.8	0	44.86	-	-	74	-29.14	-	-	H
5	* 8.263	28.03	AD1	35.8	-29.8	.13	34.16	54	-19.84	-	-	-	-	H
6	* 9.105	38.49	PK1	36.4	-28.7	0	46.19	-	-	74	-27.81	-	-	V
6	* 9.107	27.33	AD1	36.4	-28.7	.13	35.16	54	-18.84	-	-	-	-	V

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

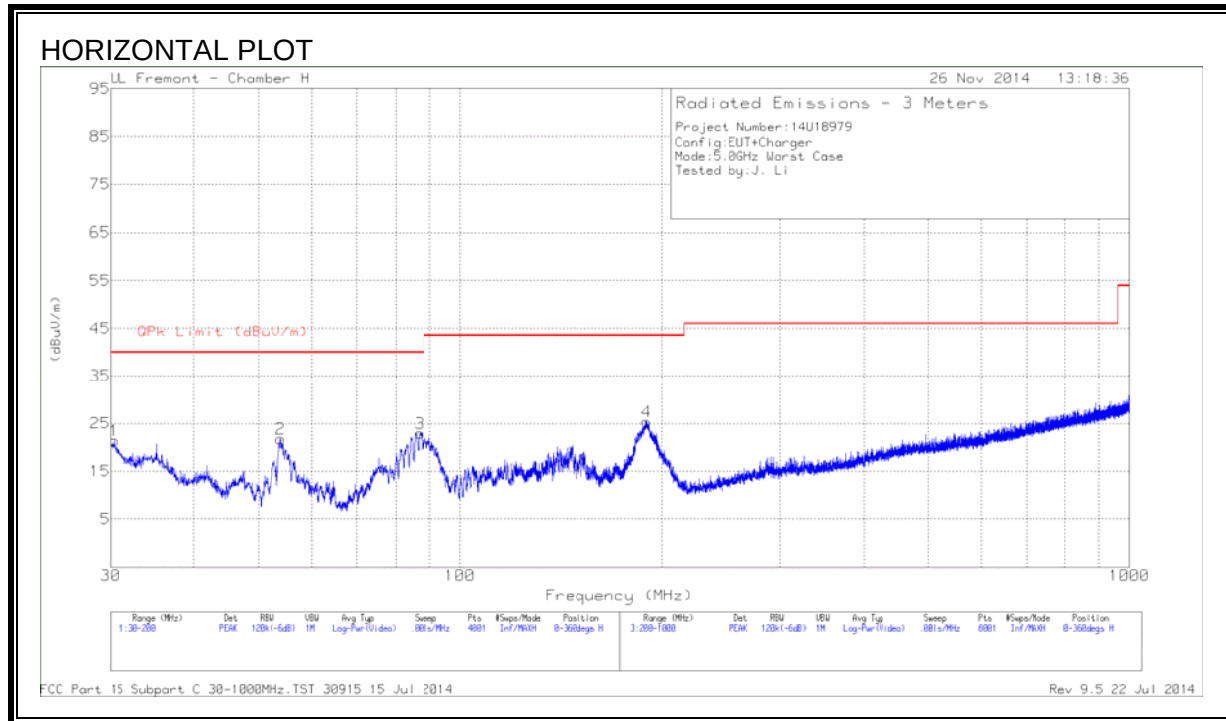
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

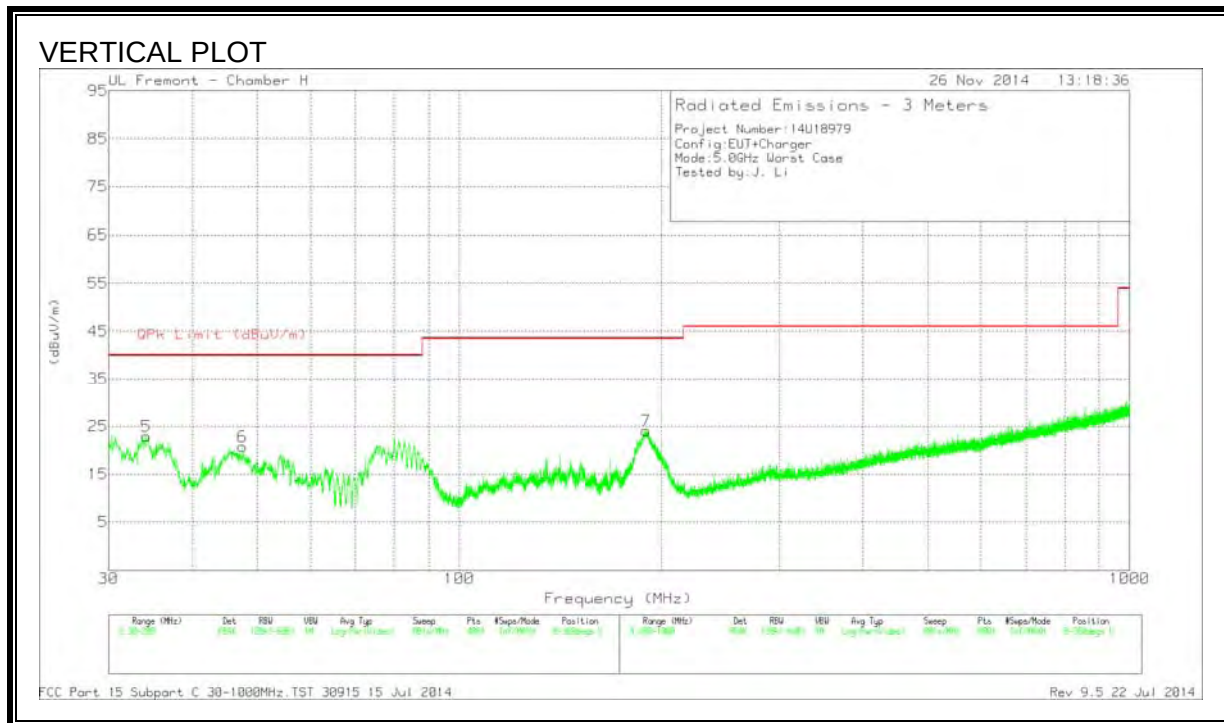
10.4. WORST-CASE BELOW 1 GHz

10.4.1. MODEL: A1622

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



HORIZONTAL & VERTICAL DATA

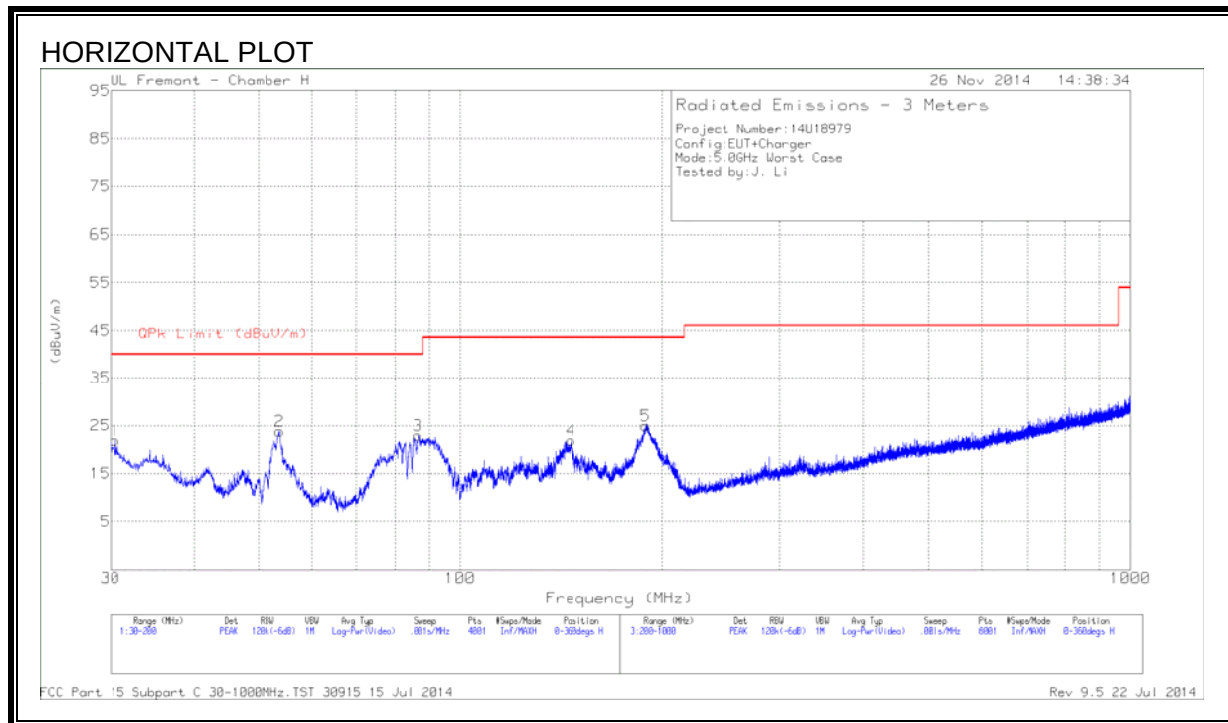
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	SS J83 SN A051314-1	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.3400	28.77	PK	23.7	-31.0	21.47	40.00	-18.53	0-360	301	H
2	53.9275	42.35	PK	10.1	-30.6	21.85	40.00	-18.15	0-360	401	H
3	86.7800	42.89	PK	10.3	-30.2	22.99	40.00	-17.01	0-360	201	H
4	190.0975	40.30	PK	14.3	-29.3	25.3	43.52	-18.22	0-360	100	H
5	34.1225	32.55	PK	21.3	-30.9	22.95	40.00	-17.05	0-360	100	V
6	47.5100	39.48	PK	12.0	-30.7	20.78	40.00	-19.22	0-360	100	V
7	189.800	39.12	PK	14.3	-29.4	24.02	43.52	-19.50	0-360	100	V

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

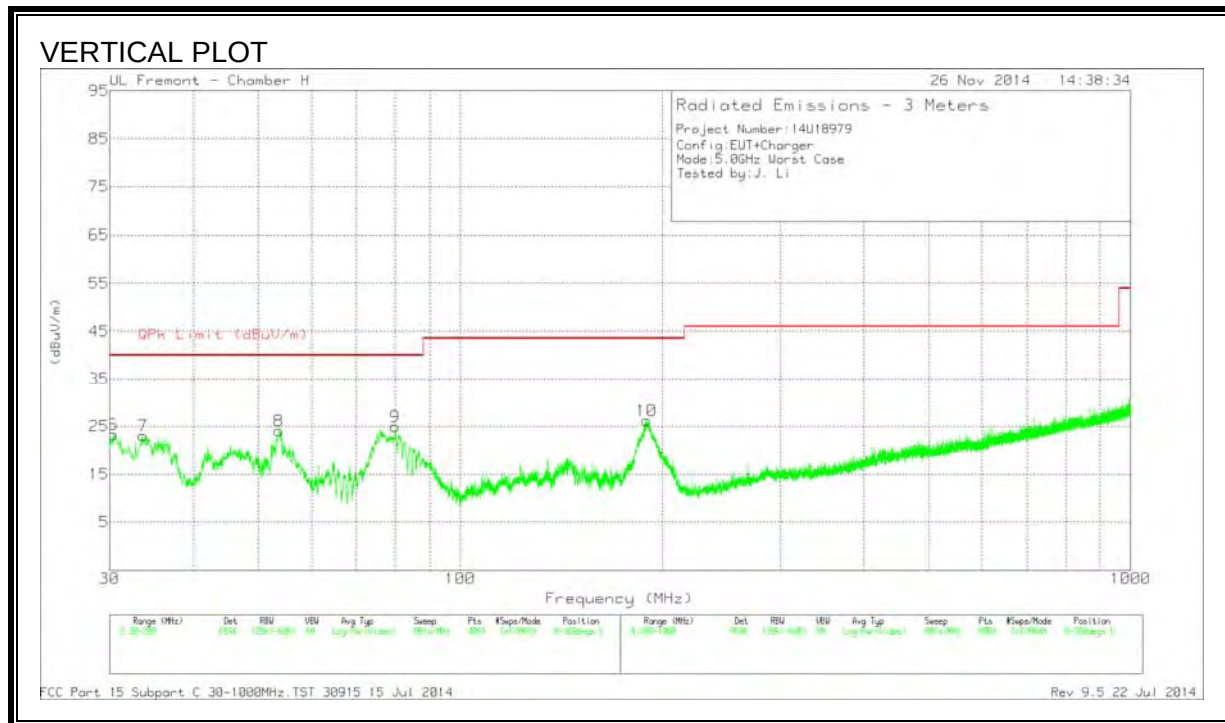
PK - Peak detector

10.4.2. MODEL: A1623

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



HORIZONTAL & VERTICAL DATA

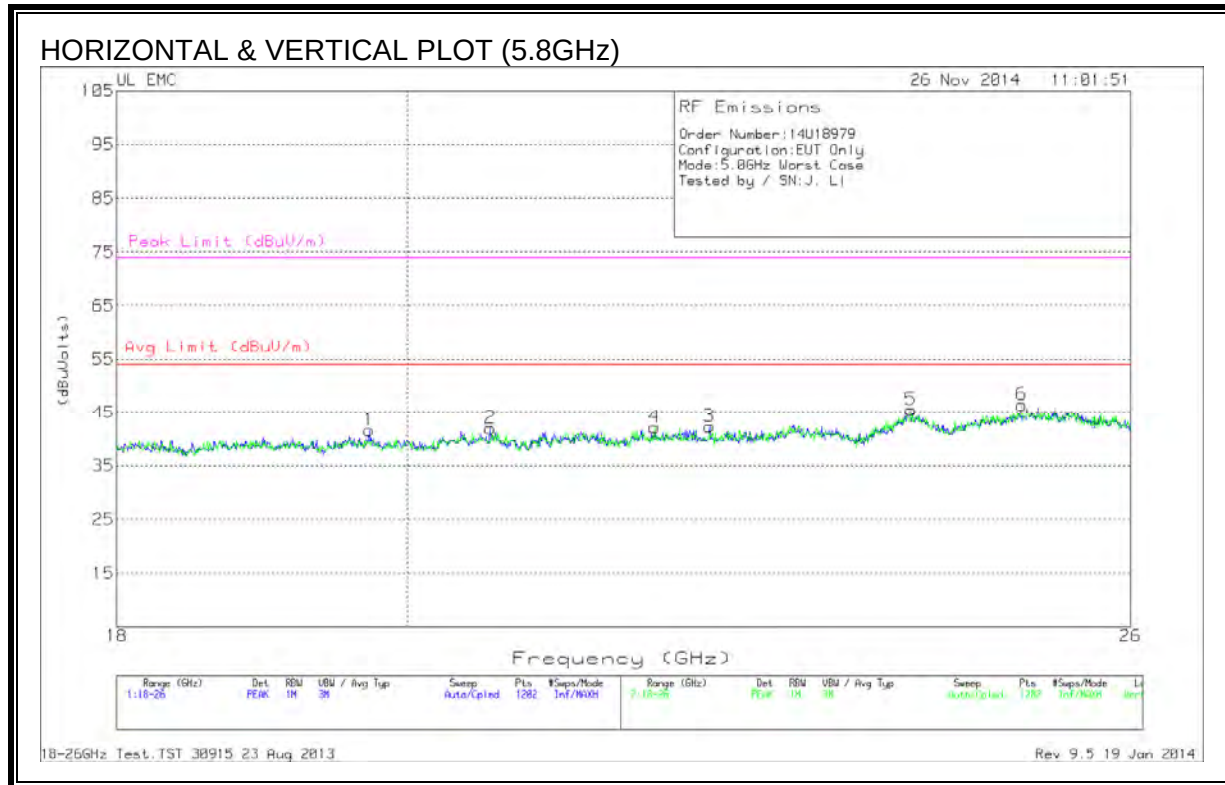
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	SS JB3 SN A051314-1	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.4675	29.22	PK	23.7	-31.0	21.92	40.00	-18.08	0-360	301	H
2	53.7150	44.42	PK	10.1	-30.7	23.82	40.00	-16.18	0-360	402	H
3	86.5675	42.87	PK	10.3	-30.2	22.97	40.00	-17.03	0-360	402	H
4	146.2375	35.61	PK	16.0	-29.7	21.91	43.52	-21.61	0-360	98	H
5	189.375	40.06	PK	14.3	-29.4	24.96	43.52	-18.56	0-360	98	H
6	30.3825	30.60	PK	23.7	-31.0	23.30	40.00	-16.70	0-360	100	V
7	33.6550	32.42	PK	21.6	-31.0	23.02	40.00	-16.98	0-360	100	V
8	53.6725	44.70	PK	10.1	-30.7	24.10	40.00	-15.90	0-360	100	V
9	80.0225	44.84	PK	10.4	-30.3	24.94	40.00	-15.06	0-360	100	V
10	189.4175	41.32	PK	14.3	-29.4	26.22	43.52	-17.30	0-360	100	V

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

PK - Peak detector

10.5. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



HORIZONTAL & VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.725	42.37	PK	32.7	-23.9	-9.5	41.666	54	-12.33	74	-32.333
2	20.611	42.40	PK	32.9	-23.8	-9.5	42.000	54	-12.00	74	-32
3	22.316	41.63	PK	33.3	-23.1	-9.5	42.333	54	-11.66	74	-31.666
4	21.877	42.07	PK	33.3	-23.7	-9.5	42.166	54	-11.83	74	-31.833
5	24.008	44.2	PK	33.6	-22.8	-9.5	45.500	54	-8.50	74	-28.5
6	24.994	44.90	PK	34.0	-22.9	-9.5	46.500	54	-7.50	74	-27.5

PK - Peak detector

10.6. WORST-CASE 26 to 40 GHz

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



HORIZONTAL & VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	26.513	46.07	PK	35.5	-33.4	-9.5	38.666	54	-15.33	74	-35.333
2	31.275	47.67	PK	36.0	-37.0	-9.5	37.166	54	-16.83	74	-36.833
3	35.517	49.10	PK	37.9	-38.0	-9.5	39.500	54	-14.50	74	-34.500
4	26.070	45.90	PK	35.6	-33.0	-9.5	39.000	54	-15.00	74	-35.000
5	33.660	48.53	PK	36.9	-37.1	-9.5	38.833	54	-15.16	74	-35.166
6	38.073	50.80	PK	37.2	-39.0	-9.5	39.500	54	-14.50	74	-34.500

PK - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

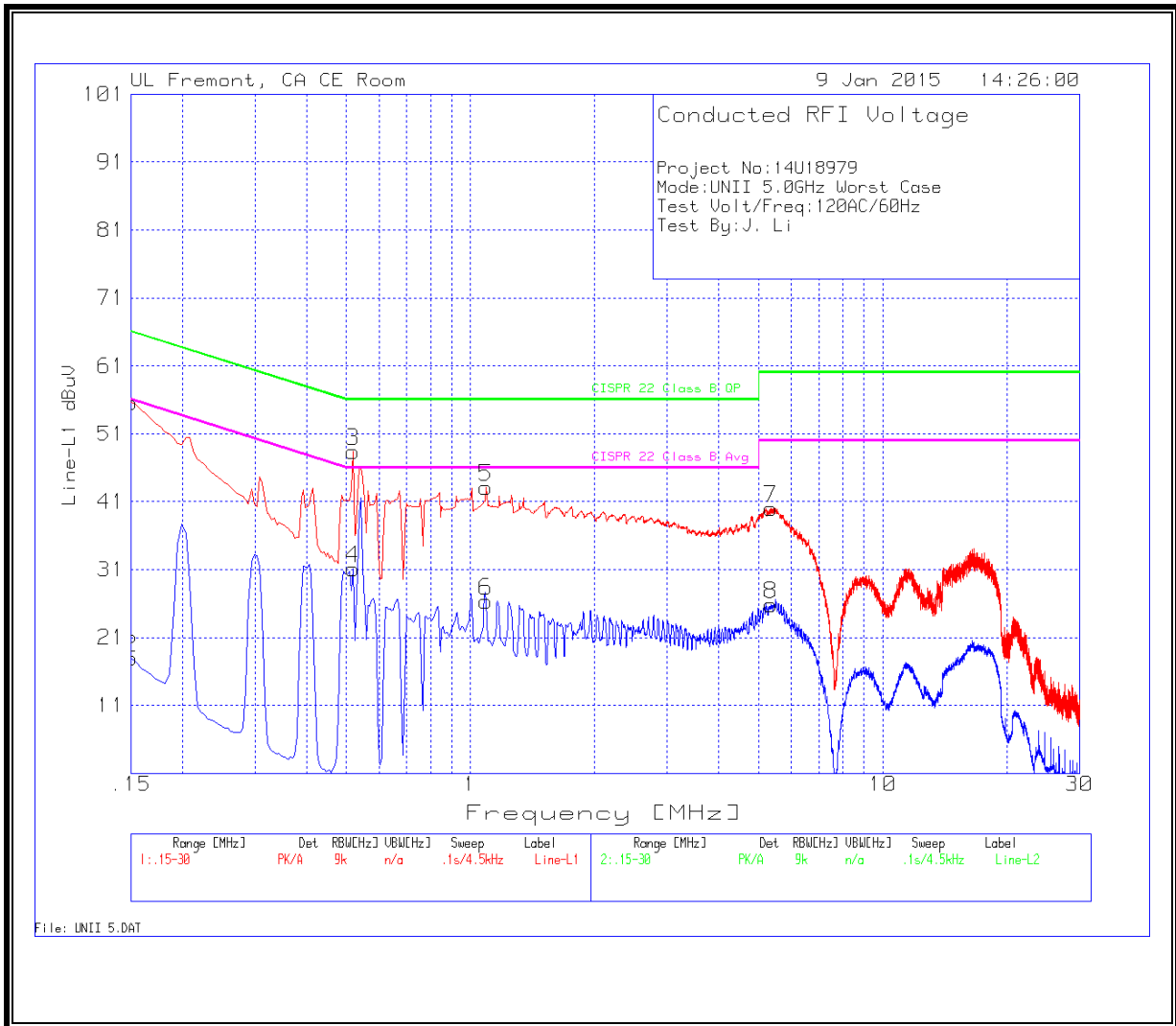
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

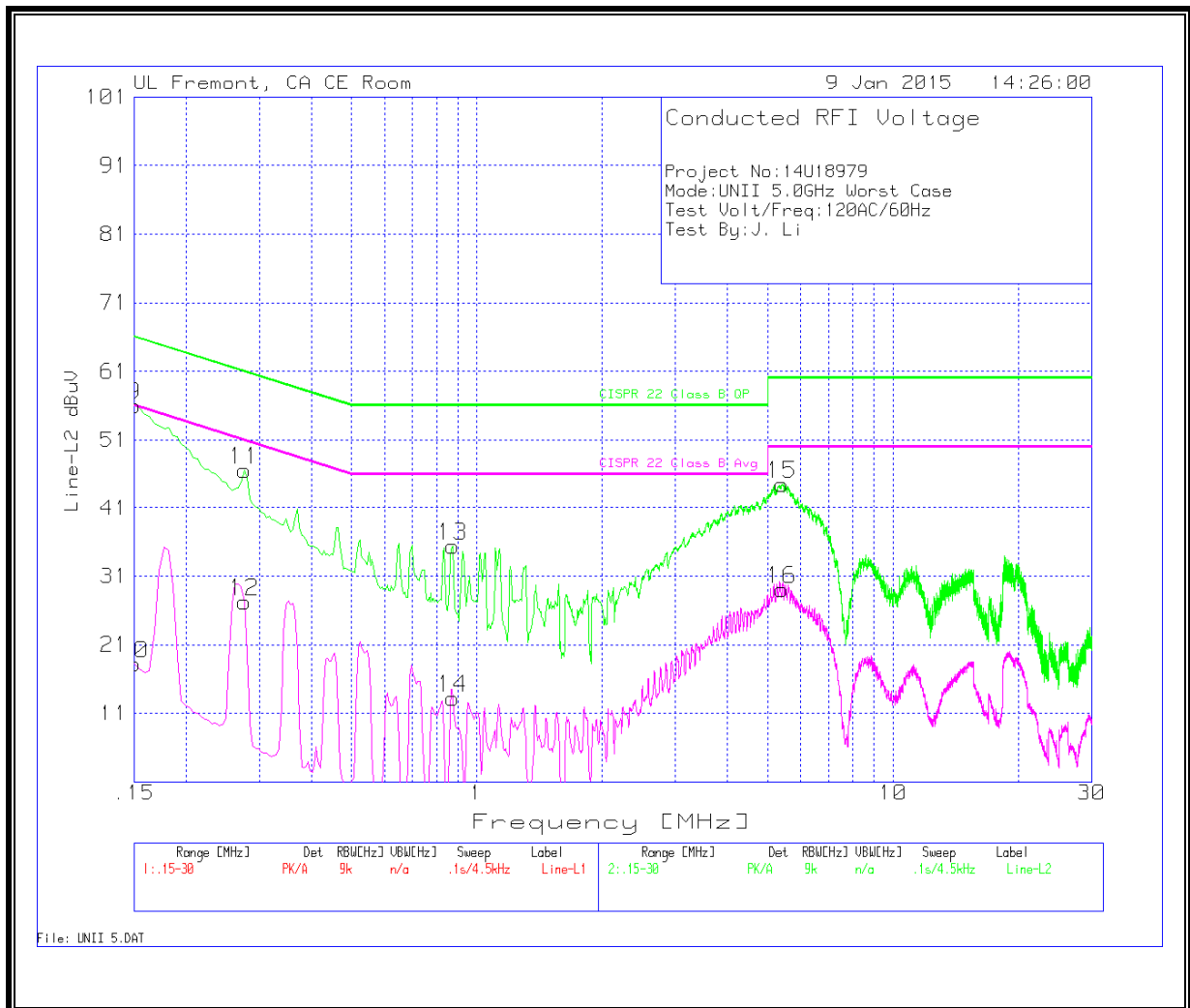
11.1. MODEL: A1622

AC/DC ADAPTER MODEL NUMBER: MD506LL/A

LINE 1 RESULT



LINE 2 RESULT



WORST EMISSIONS DATA

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.15	54.25	PK	1.4	0	55.65	66	-10.35	-	-
2	.15	16.54	Av	1.4	0	17.94	-	-	56	-38.06
3	.519	48.15	PK	.3	0	48.45	56	-7.55	-	-
4	.519	30.88	Av	.3	0	31.18	-	-	46	-14.82
5	1.0905	42.91	PK	.2	0	43.11	56	-12.89	-	-
6	1.0905	26.19	Av	.2	0	26.39	-	-	46	-19.61
7	5.3655	39.73	PK	.2	.1	40.03	60	-19.97	-	-
8	5.3655	25.55	Av	.2	.1	25.85	-	-	50	-24.15

Line-L2 .15 - 30MHz

Trace Markers

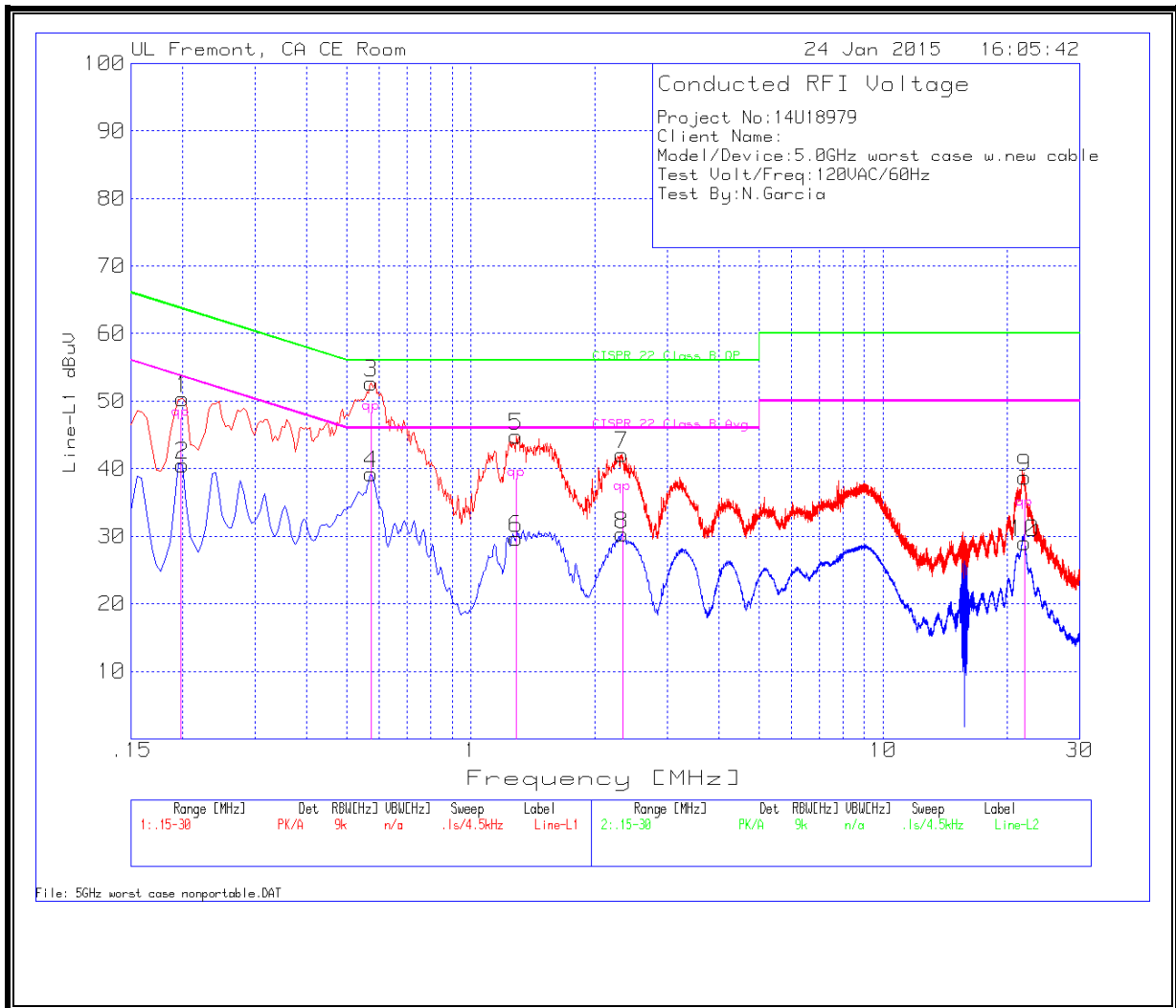
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
9	.15	54.52	PK	1.5	0	56.02	66	-9.98	-	-
10	.15	16.67	Av	1.5	0	18.17	-	-	56	-37.83
11	.276	45.88	PK	.7	0	46.58	60.9	-14.32	-	-
12	.276	26.59	Av	.7	0	27.29	-	-	50.9	-23.61
13	.8745	35.12	PK	.3	0	35.42	56	-20.58	-	-
14	.8745	12.91	Av	.3	0	13.21	-	-	46	-32.79
15	5.4105	44.28	PK	.2	.1	44.58	60	-15.42	-	-
16	5.4105	28.81	Av	.2	.1	29.11	-	-	50	-20.89

PK - Peak detector
Av - average detection

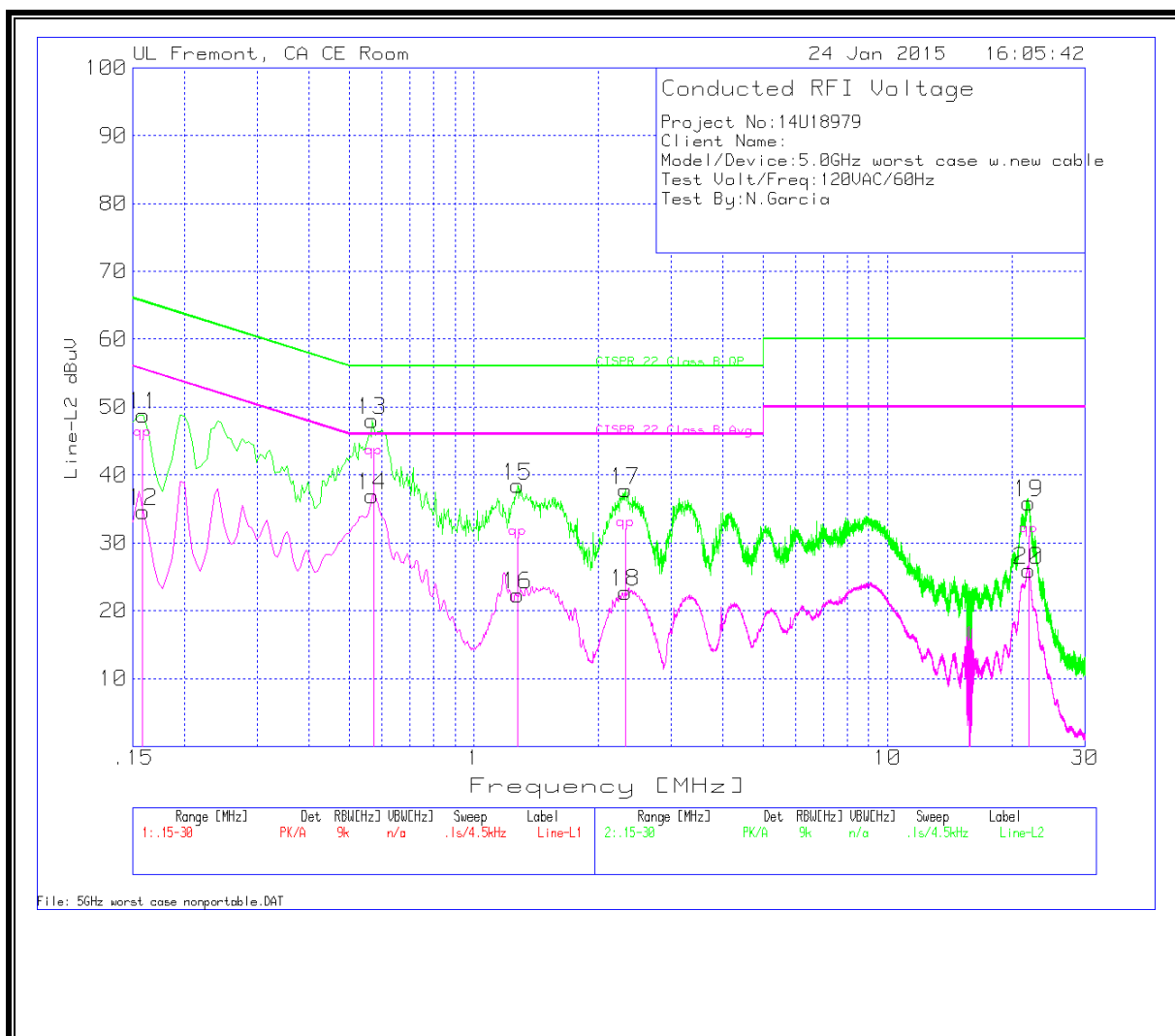
11.2. MODEL: A1623

AC/DC ADAPTER MODEL NUMBER: MD836LL/A

LINE 1 RESULT



LINE 2 RESULT



WORST EMISSIONS DATA

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.1995	49.48	PK	.9	0	50.38	63.6	-13.22	-	-
2	.1995	39.63	Av	.9	0	40.53	-	-	53.6	-13.07
3	.573	52.43	PK	.3	0	52.73	56	-3.27	-	-
4	.573	38.92	Av	.3	0	39.22	-	-	46	-6.78
5	1.2885	44.49	PK	.2	.1	44.79	56	-11.21	-	-
6	1.2885	29.43	Av	.2	.1	29.73	-	-	46	-16.27
7	2.328	41.76	PK	.2	.1	42.06	56	-13.94	-	-
8	2.328	29.99	Av	.2	.1	30.29	-	-	46	-15.71
9	22.0515	38.27	PK	.3	.2	38.77	60	-21.23	-	-
10	22.0515	28.59	Av	.3	.2	29.09	-	-	50	-20.91

Quasi-Peak Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
.1977	46.47	QP	.9	0	47.37	63.7	-16.33	-	-
.573	47.96	QP	.3	0	48.26	56	-7.74	-	-
1.2903	38.17	QP	.2	.1	38.47	56	-17.53	-	-
2.3325	36.09	QP	.2	.1	36.39	56	-19.61	-	-
22.0497	33.56	QP	.3	.2	34.06	60	-25.94	-	-

Line-L2 .15 - 30MHz

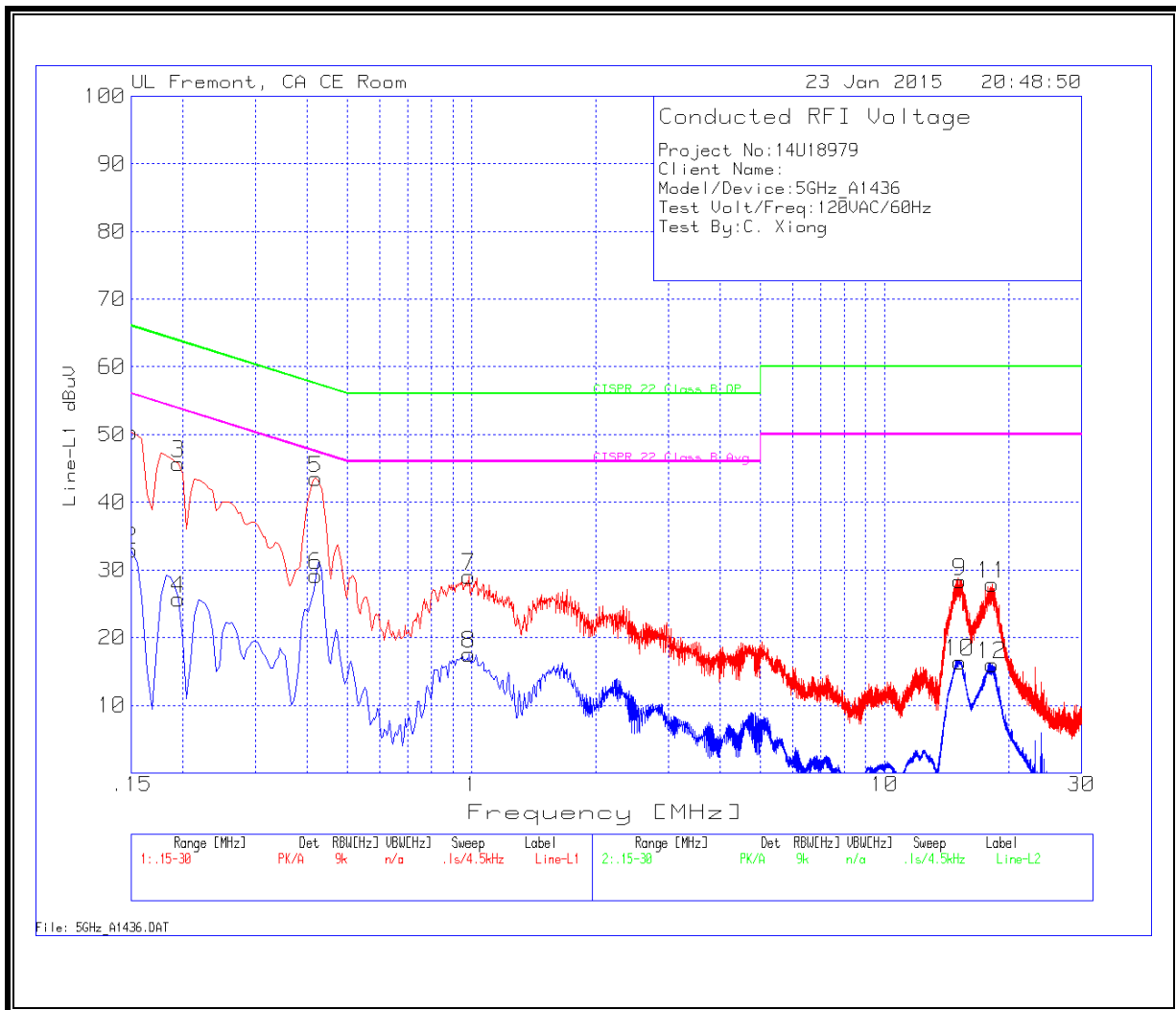
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
11	.159	47.47	PK	1.4	0	48.87	65.5	-16.63	-	-
12	.159	33.26	Av	1.4	0	34.66	-	-	55.5	-20.84
13	.5685	47.75	PK	.3	0	48.05	56	-7.95	-	-
14	.5685	36.68	Av	.3	0	36.98	-	-	46	-9.02
15	1.275	38.13	PK	.2	.1	38.43	56	-17.57	-	-
16	1.275	22.09	Av	.2	.1	22.39	-	-	46	-23.61
17	2.3235	37.48	PK	.2	.1	37.78	56	-18.22	-	-
18	2.3235	22.41	Av	.2	.1	22.71	-	-	46	-23.29
19	21.9705	35.42	PK	.3	.2	35.92	60	-24.08	-	-
20	21.9705	25.51	Av	.3	.2	26.01	-	-	50	-23.99

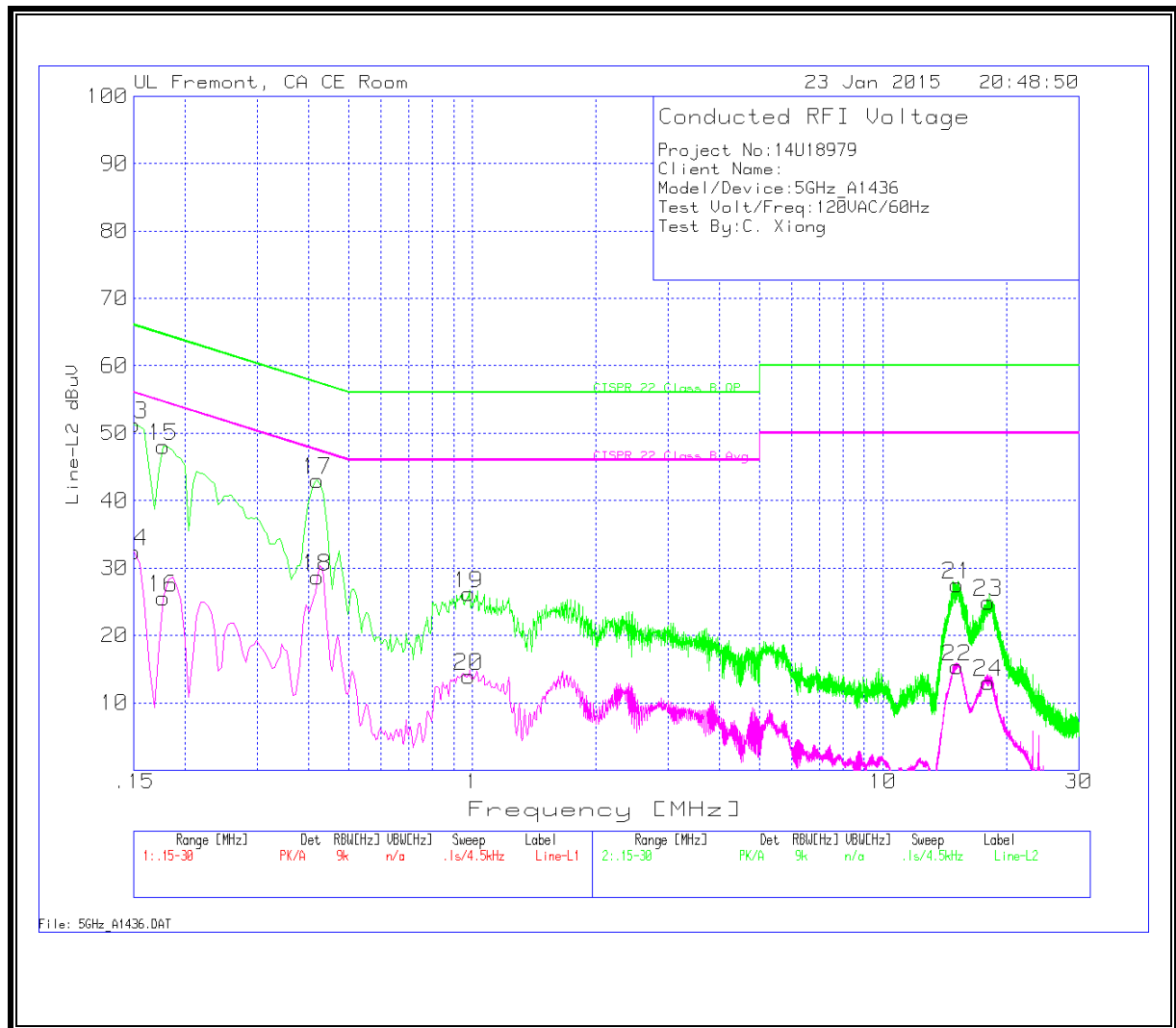
Quasi-Peak Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
.1581	43.82	QP	1.4	0	45.22	65.6	-20.38	-	-
.5721	42.24	QP	.3	0	42.54	56	-13.46	-	-
1.2759	30.41	QP	.2	.1	30.71	56	-25.29	-	-
2.3271	31.67	QP	.2	.1	31.97	56	-24.03	-	-
21.966	30.55	QP	.3	.2	31.05	60	-28.95	-	-

QP - Quasi-Peak detector

AC/DC ADAPTER MODEL NUMBER: MD592LL/A**LINE 1 RESULT**

LINE 2 RESULT



WORST EMISSIONS DATA

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.15	49.01	PK	1.4	0	50.41	66	-15.59	-	-
2	.15	31.56	Av	1.4	0	32.96	-	-	56	-23.04
3	.195	44.75	PK	1	0	45.75	63.8	-18.05	-	-
4	.195	24.73	Av	1	0	25.73	-	-	53.8	-28.07
5	.42	43.07	PK	.4	0	43.47	57.4	-13.93	-	-
6	.42	28.83	Av	.4	0	29.23	-	-	47.4	-18.17
7	.987	28.8	PK	.3	0	29.1	56	-26.9	-	-
8	.987	17.27	Av	.3	0	17.57	-	-	46	-28.43
9	15.2115	27.85	PK	.3	.2	28.35	60	-31.65	-	-
10	15.2115	15.92	Av	.3	.2	16.42	-	-	50	-33.58
11	18.2445	27.41	PK	.3	.2	27.91	60	-32.09	-	-
12	18.2445	15.47	Av	.3	.2	15.97	-	-	50	-34.03

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
13	.15	49.82	PK	1.5	0	51.32	66	-14.68	-	-
14	.15	30.91	Av	1.5	0	32.41	-	-	56	-23.59
15	.177	46.87	PK	1.2	0	48.07	64.6	-16.53	-	-
16	.177	24.35	Av	1.2	0	25.55	-	-	54.6	-29.05
17	.42	42.6	PK	.4	0	43	57.4	-14.4	-	-
18	.42	28.24	Av	.4	0	28.64	-	-	47.4	-18.76
19	.978	25.76	PK	.3	.1	26.16	56	-29.84	-	-
20	.978	13.54	Av	.3	.1	13.94	-	-	46	-32.06
21	15.126	27.03	PK	.3	.2	27.53	60	-32.47	-	-
22	15.126	14.81	Av	.3	.2	15.31	-	-	50	-34.69
23	18.0375	24.42	PK	.3	.2	24.92	60	-35.08	-	-
24	18.0375	12.6	Av	.3	.2	13.1	-	-	50	-36.9

PK - Peak detector
Av - average detection