



**FCC 47 CFR PART 15 SUBPART C
CERTIFICATION TEST REPORT**

FOR

**TABLET WITH CELLULAR GSM/GPRS/EGPRS/WCDMA/HSPA+/DC-HSDPA/LTE
IEEE 802.11A/B/G/N (MIMO 2X2) AND BLUETOOTH RADIO**

MODEL: A1476

FCC ID: BCGA1476

REPORT NUMBER: 13U16584-3, REVISION A

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Prepared for

**APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.**

Prepared by

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NVLAP LAB CODE 200065-0

Revision History

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--	01/07/14	Initial Issue	T. Chan
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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 with cellular GSM/GPRS/EGPRS/WCDMA/HSPA+/DC-HSDPA, LTE/IEEE 802.11a/b/g/n (MIMO 2x2) and Bluetooth Radio

MODEL: A1476

SERIAL NUMBER: 10898

DATE TESTED: OCTOBER 28 – DECEMBER 17, 2013

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	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 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 and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:

Tested By:



Thu Chan
WiSE Operations Manager
UL Verification Services Inc.

Roy Zheng
WiSE Lab Technician
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, ANSI C63.10-2009.

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

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ul.com>.

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. DESCRIPTION OF EUT

Tablet with cellular GSM/GPRS/EGPRS/WCDMA/HSPA+/DC-HSDPA, LTE/IEEE 802.11a/b/g/n (MIMO 2x2) and Bluetooth radio

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Band (GHz)	Antenna Gain (dBi)		Uncorrelated Gain (dBi)
	Tx1	Tx2	
2.4	0.50	1.99	1.31
5.8	4.21	3.92	4.07

5.3. MAXIMUM OUTPUT POWER

Please refer to project number 13U15555-9, Section 5.2

5.4. SOFTWARE AND FIRMWARE

The test utility software used during testing was Broadcom WL Tool Version 6.25.86.

5.5. WORST-CASE CONFIGURATION AND MODE

There are two vendors of the WiFi/Bluetooth radio modules: BOM #1, vender1 and BOM #2, vender 2, and they have the same mechanical outline, same on board antenna, matching circuit, antenna structure and same specification and baseline was performed on both vendors to determine the worst case

For the RF conducted test: Refer to FCC DTS report with the FCC ID BCGA1475 and project number 13U15555-9.

For the RF radiated test: The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z, with AC Adapter and Headset, it was determined that X orientation without AC Adapter and Headset was the worst-case orientation for 2.4GHz band, and Z orientation was the worst-case orientation for 5.8 GHz band; therefore, all final radiated testing was performed with the EUT in X orientation for 2.4GHz band, and Z orientation for 5.8 GHz band.

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

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11a mode: 6 Mbps
802.11n HT20mode: MCS0
802.11n HT40mode: MCS0

For below 1GHz test, the EUT that is connected to the headset and AC charger is activated on the worst-case mode and channel with the highest output power.

For all modes with single chain, the radiated emissions test was based on the port with the higher antenna gain.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC /DC adapter	Apple	A1401	60812	DoC
Earphone	Apple	NA	NA	NA

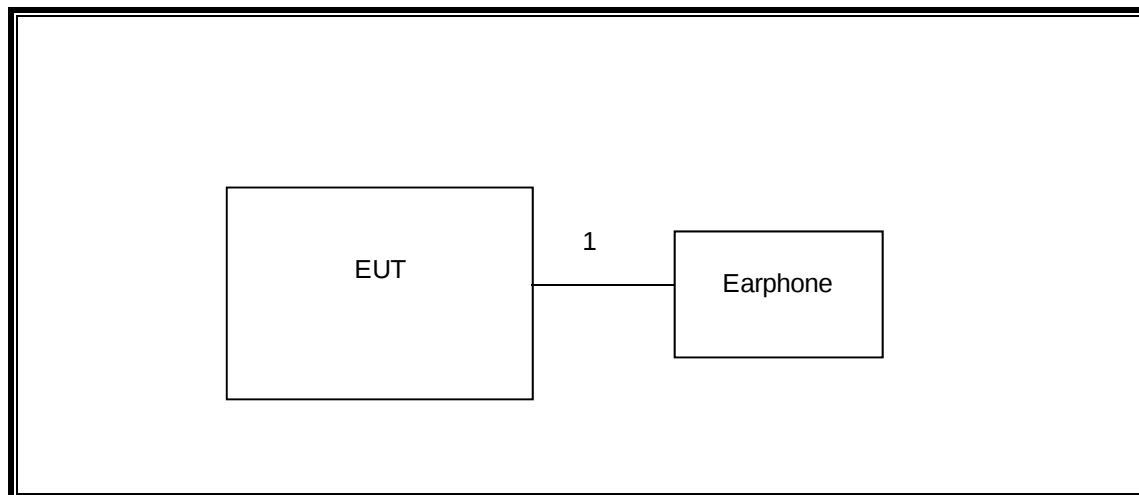
I/O CABLES (RADIATED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Audio	1	Jack	Un-Shielded	0.5m	NA

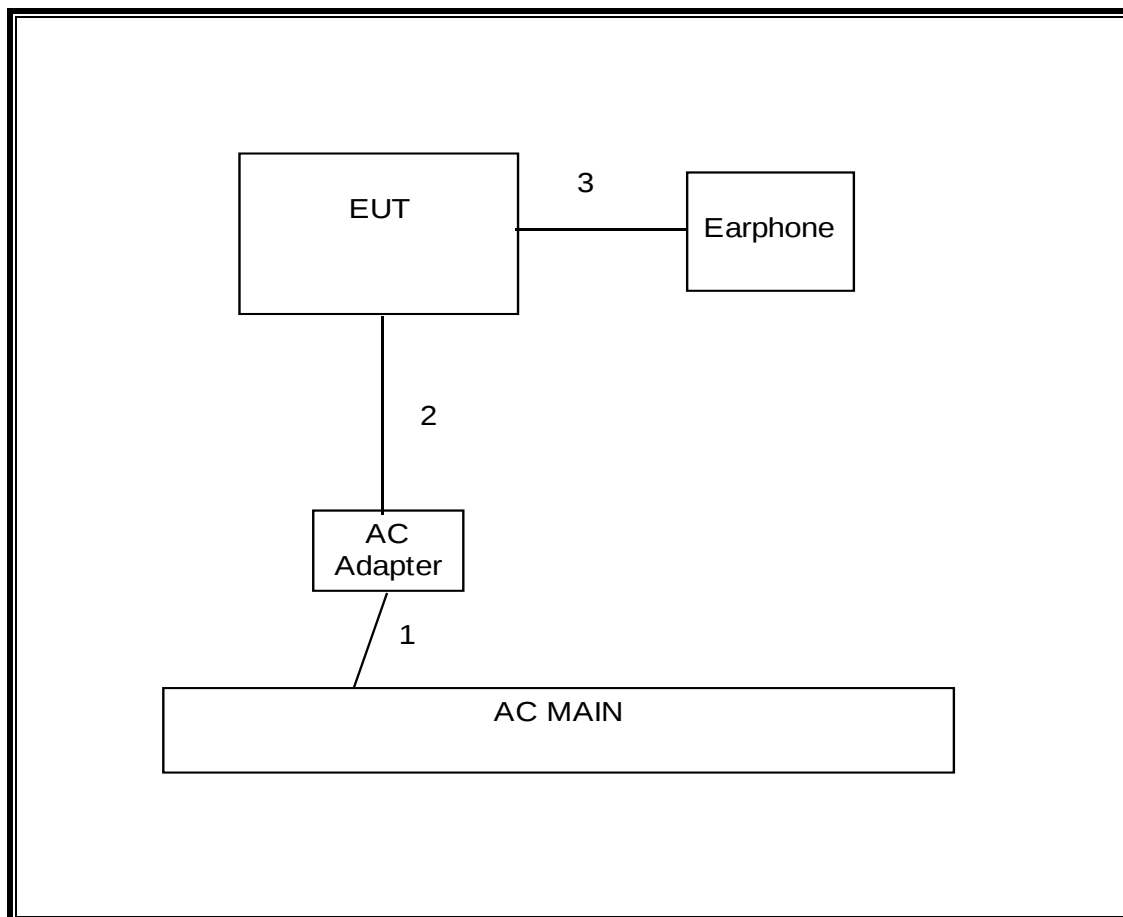
I/O CABLES BELOW 1GHZ TEST

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	US115	Un-Shielded	2m	NA
2	DC	1	USB	Un-Shielded	2m	NA
3	Audio	1	Jack	Un-Shielded	0.5m	NA

SETUP DIAGRAM FOR RADIATED TESTS



SETUP DIAGRAM FOR BELOW 1GHZ TEST



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	Asset	Cal Due
Horn Antenna 1-18GHz	ETS Lindgren	3117	F00131	02/19/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/14
Antenna, Horn, 26.5 GHz	ARA	SWH-28	C01015	05/06/14
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB3	F00027	03/07/14
Peak / Average Power Sensor	Agilent / HP	E9323A	F00163	04/03/14
P-Series single channel Power Meter	Agilent / HP	N1911A	F00164	04/03/14
Spectrum Analyzer, 3Hz-44GHz	Agilent	N9030A	F00127	02/22/14
Spectrum Analyzer, 3Hz-44GHz	Agilent	E4446A	C01012	05/22/14
PreApmplifier, 1-26.5GHz	Agilent	8449B	C01052	03/18/14
Antenna, Horn, 40 GHz	ARA	MWH-2640/B	F00194	05/14/14
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	08/20/14

7. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.1. ON TIME AND DUTY CYCLE RESULTS

Refer the on time and duty cycle data in FCC DTS report with the FCC ID BCGA1475 and project number 13U15555-9 at Section 7.1.

7.2. MEASUREMENT METHODS

6 dB BW: KDB 558074 D01.

Output Power: KDB 558074 D01.

Power Spectral Density: KDB 558074 D01.

Out-of-band emissions in non-restricted bands: KDB 558074 D01.

Out-of-band emissions in restricted bands: KDB 558074 D01.

8. ANTENNA PORT TEST RESULTS

Note that for all antenna port data refer to the FCC DTS report with the FCC ID BCGA1475 and project number 13U15555-9 Section 8.1 to 8.7.

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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.

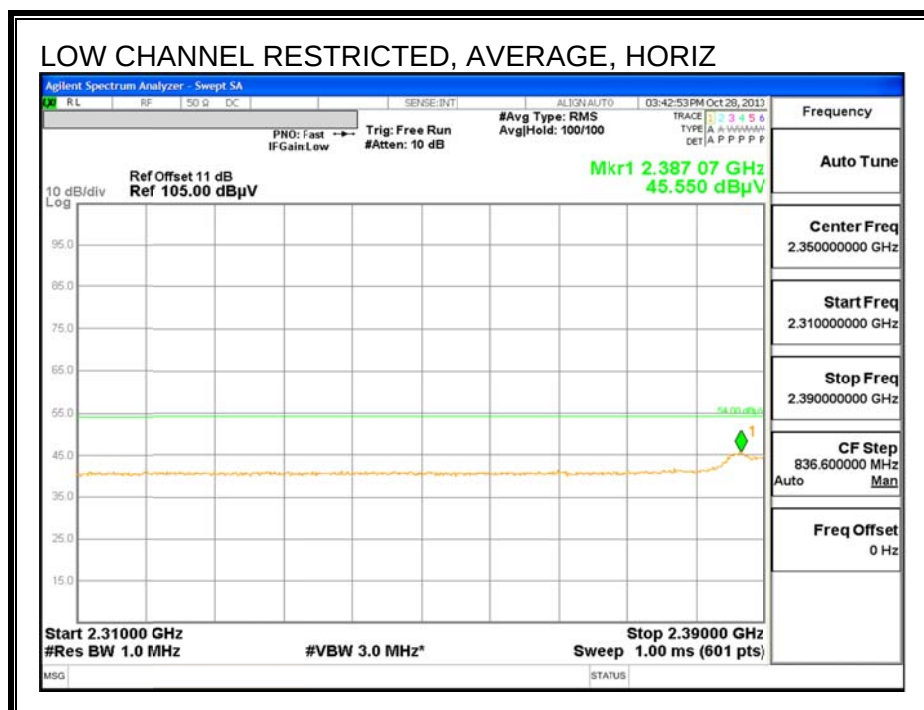
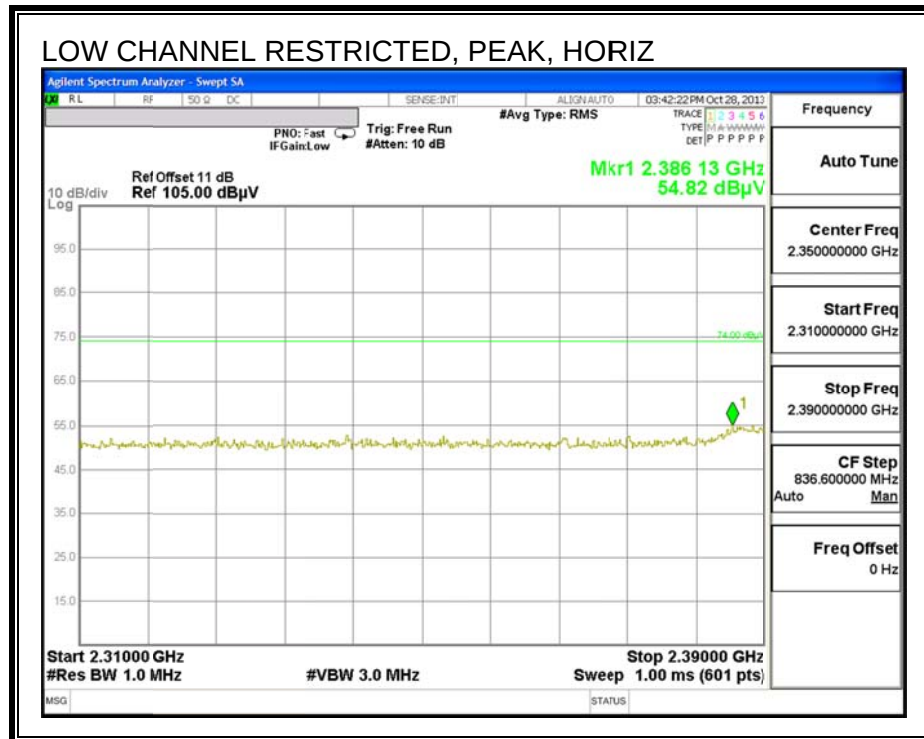
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

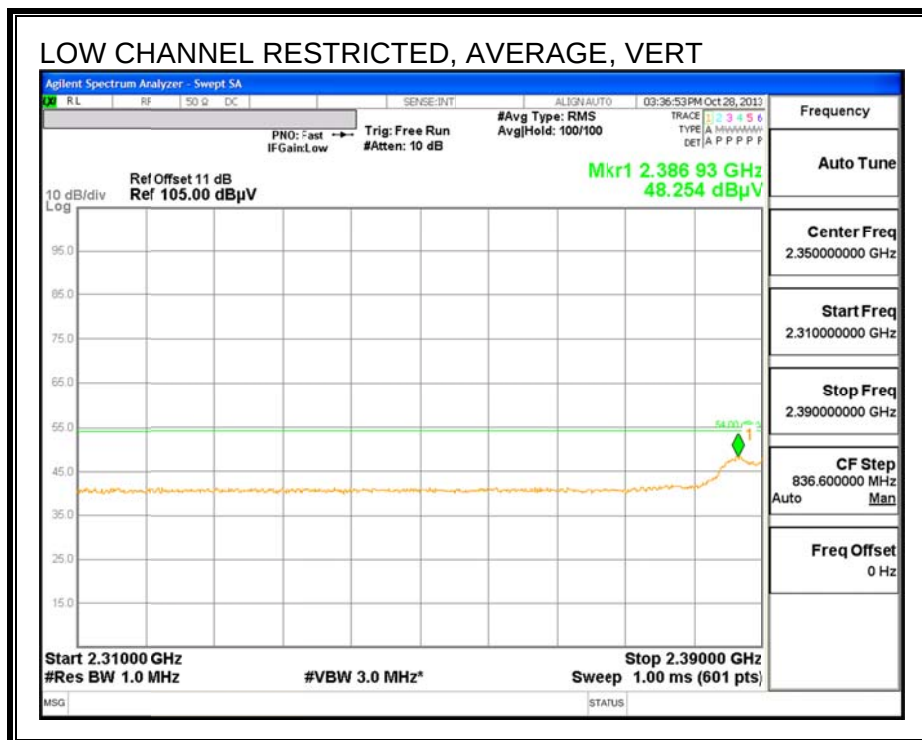
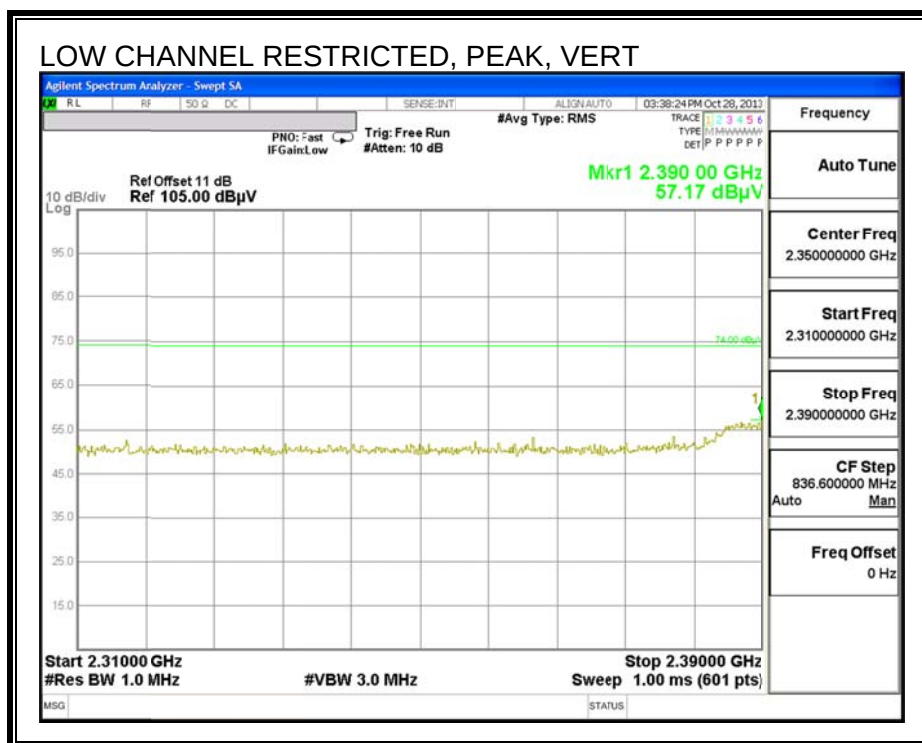
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.2. TRANSMITTER ABOVE 1 GHz

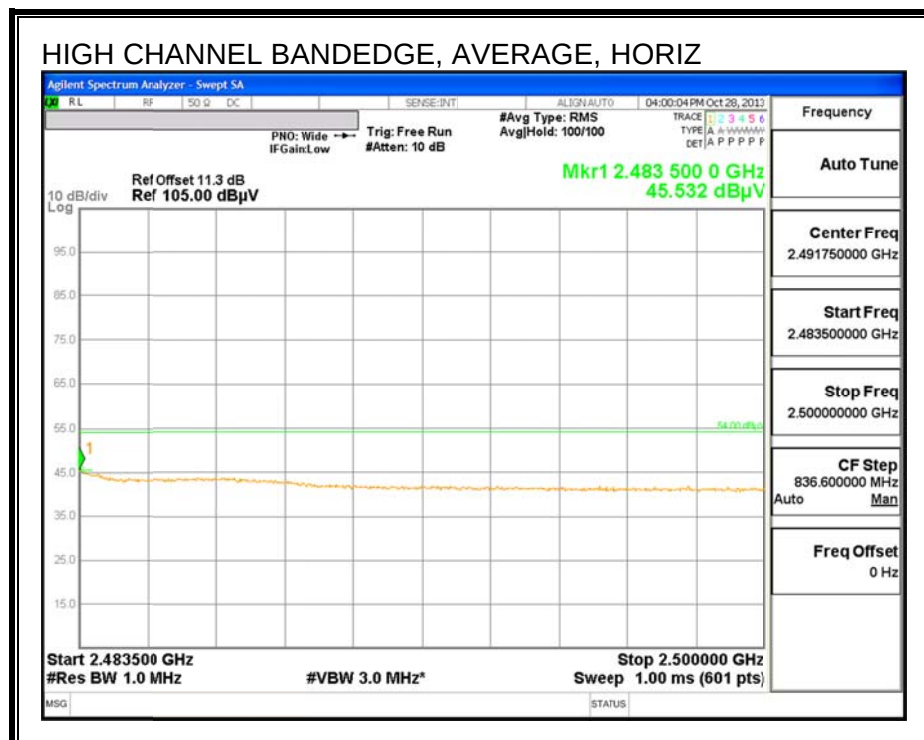
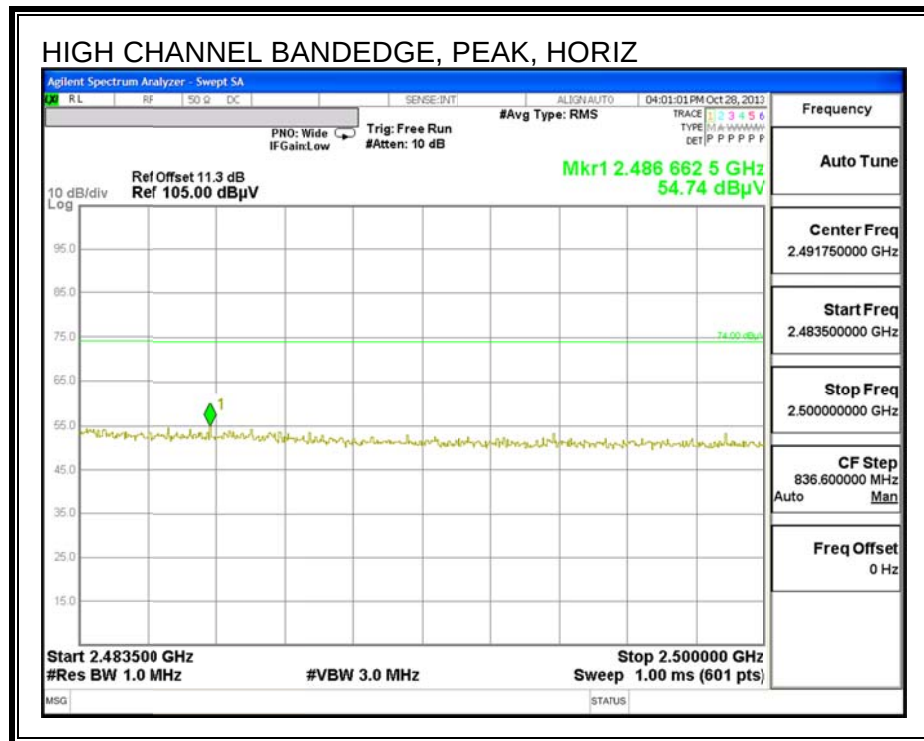
9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

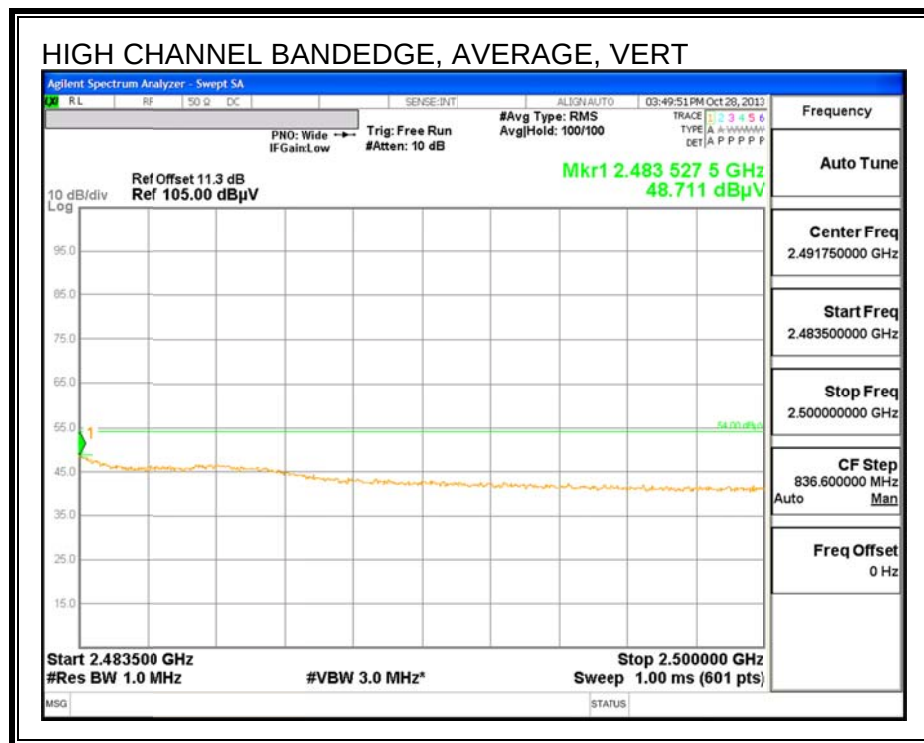
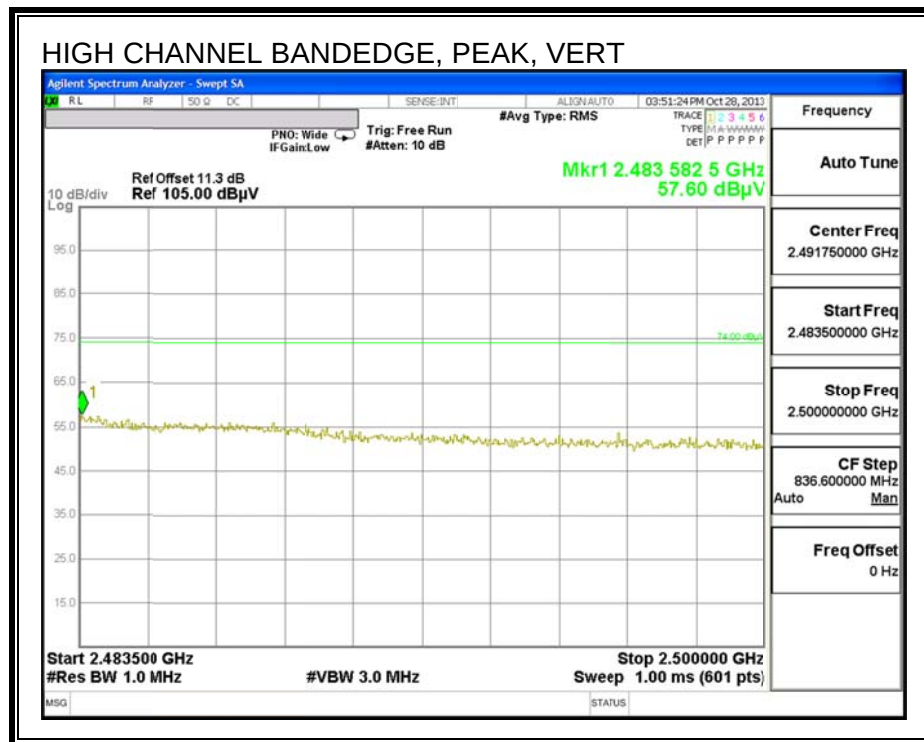
RESTRICTED BANDEDGE (LOW CHANNEL) CH 1



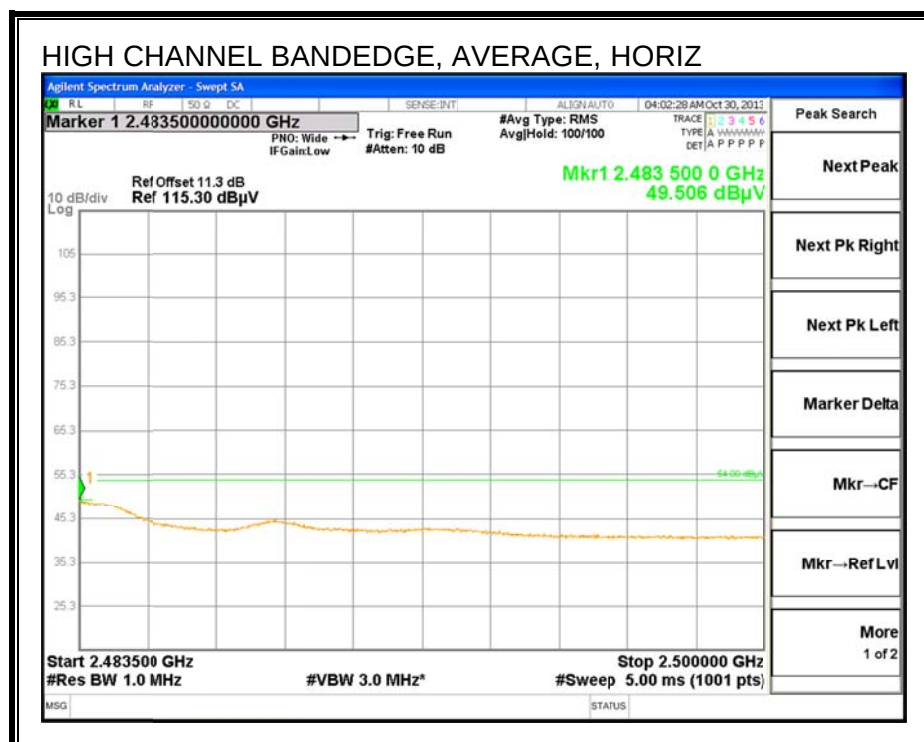
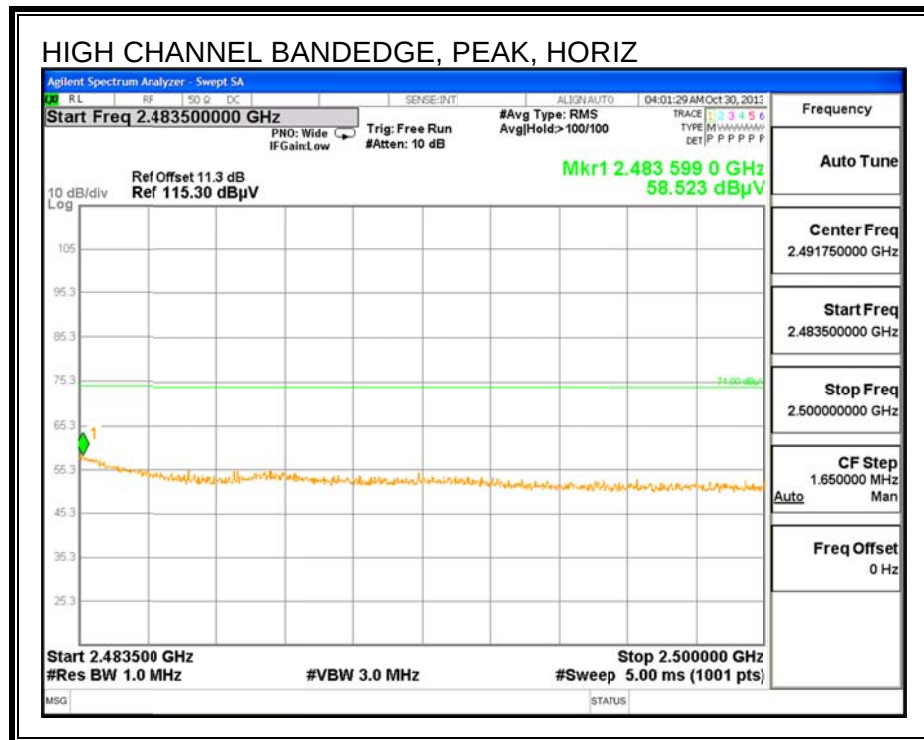


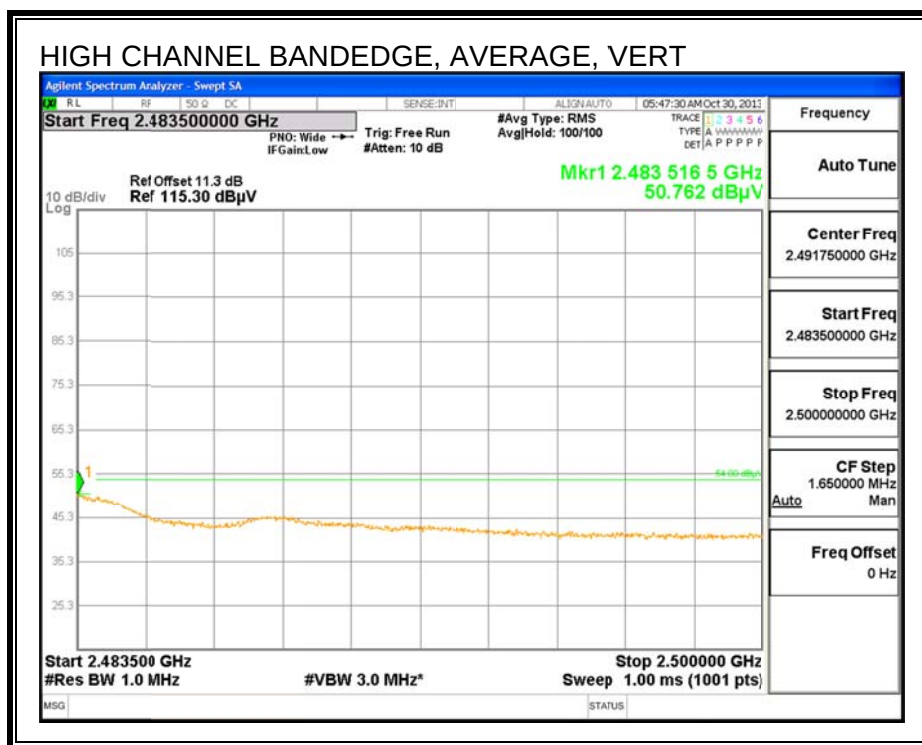
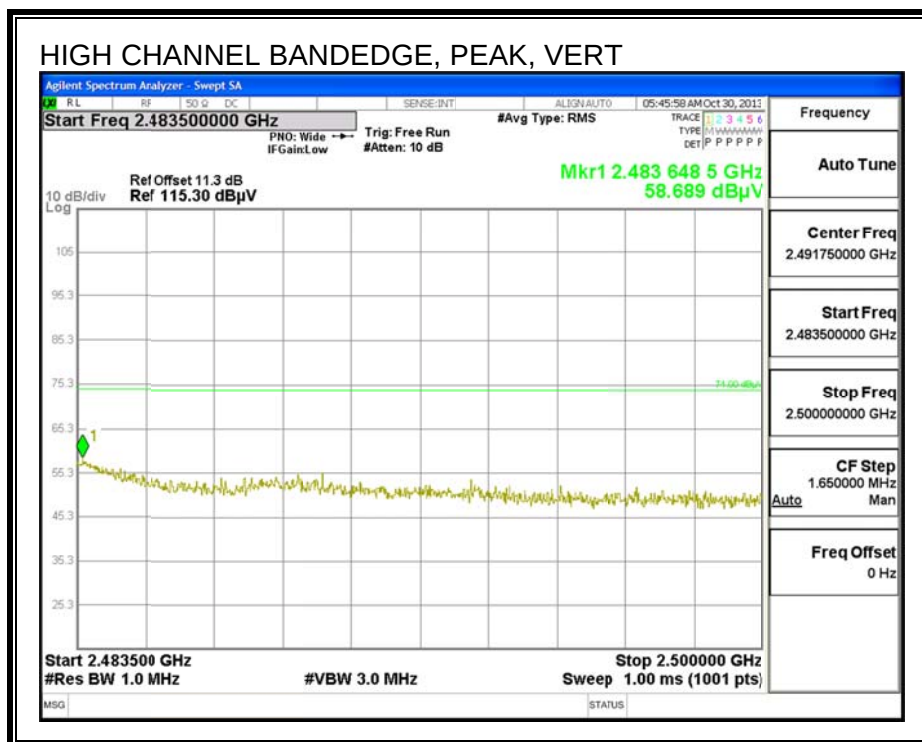
RESTRICTED BANDEDGE (HIGH CHANNEL) CH 11



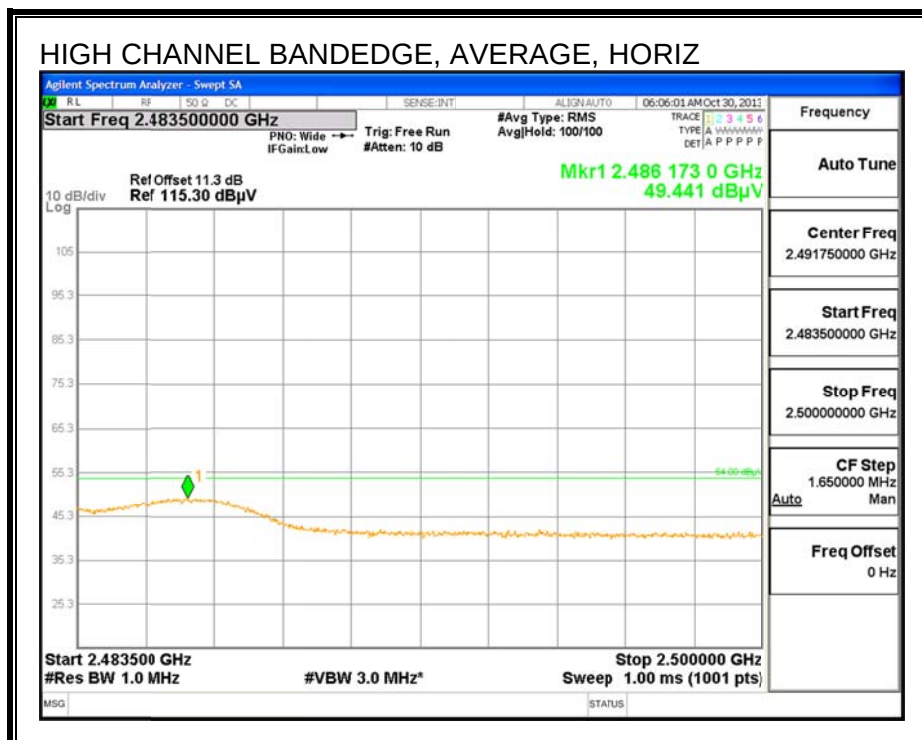
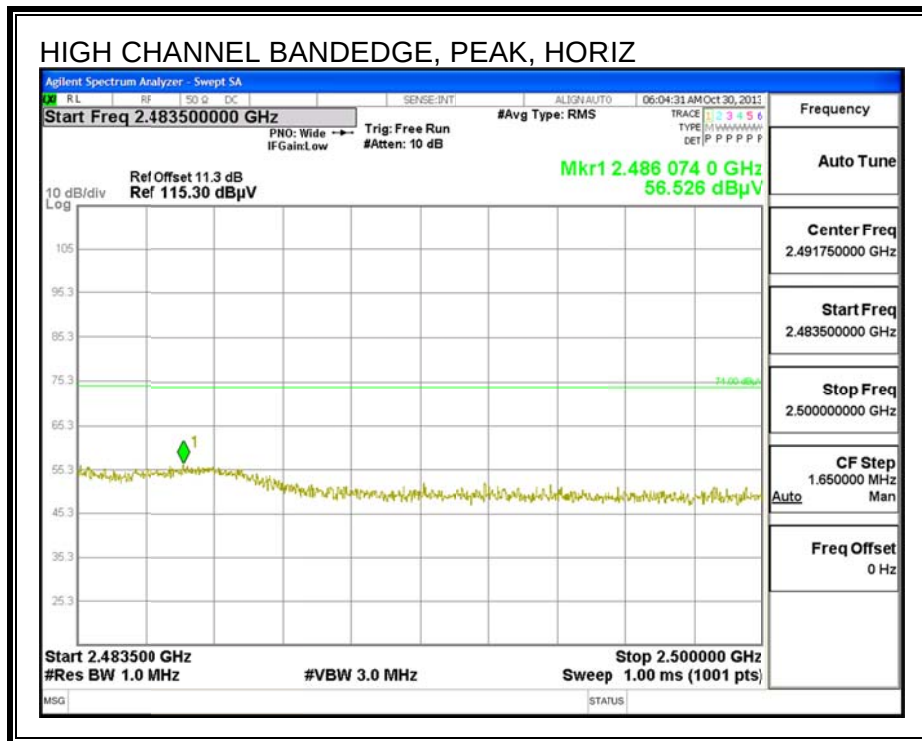


RESTRICTED BANDEDGE (HIGH CHANNEL) CH 12

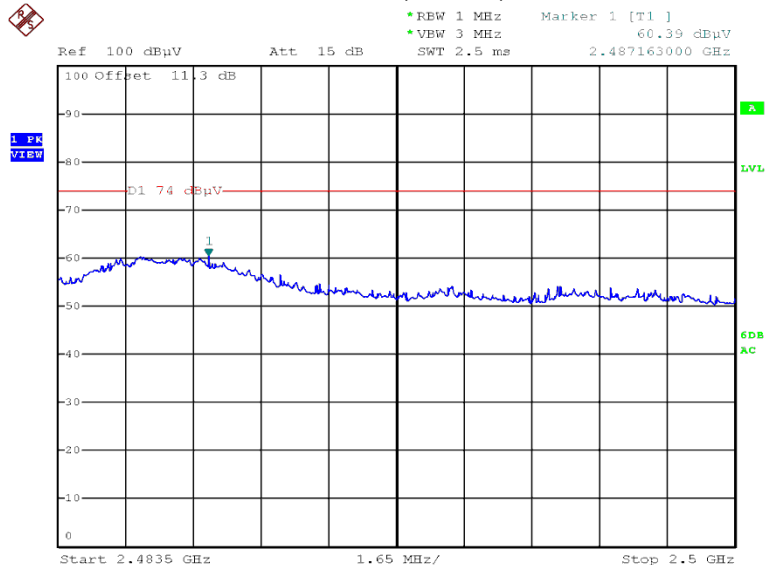




RESTRICTED BANDEDGE (HIGH CHANNEL) CH 13

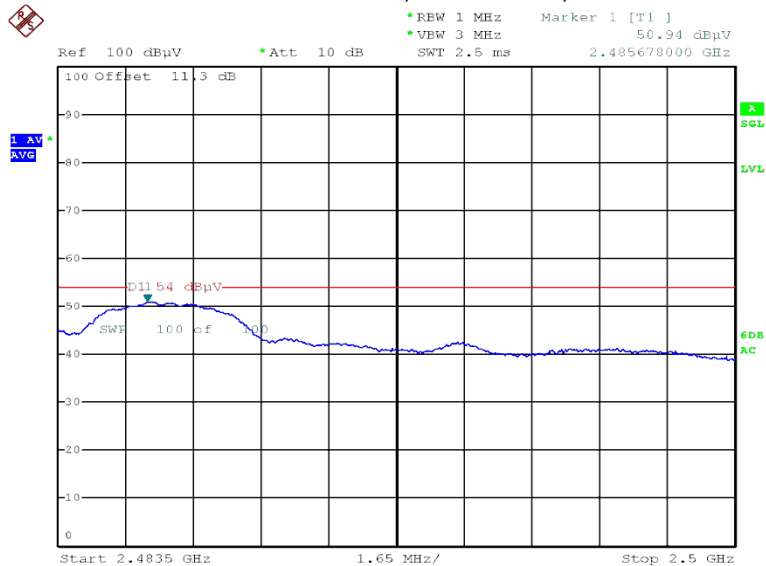


HIGH CHANNEL BANDEDGE, PEAK, VERT



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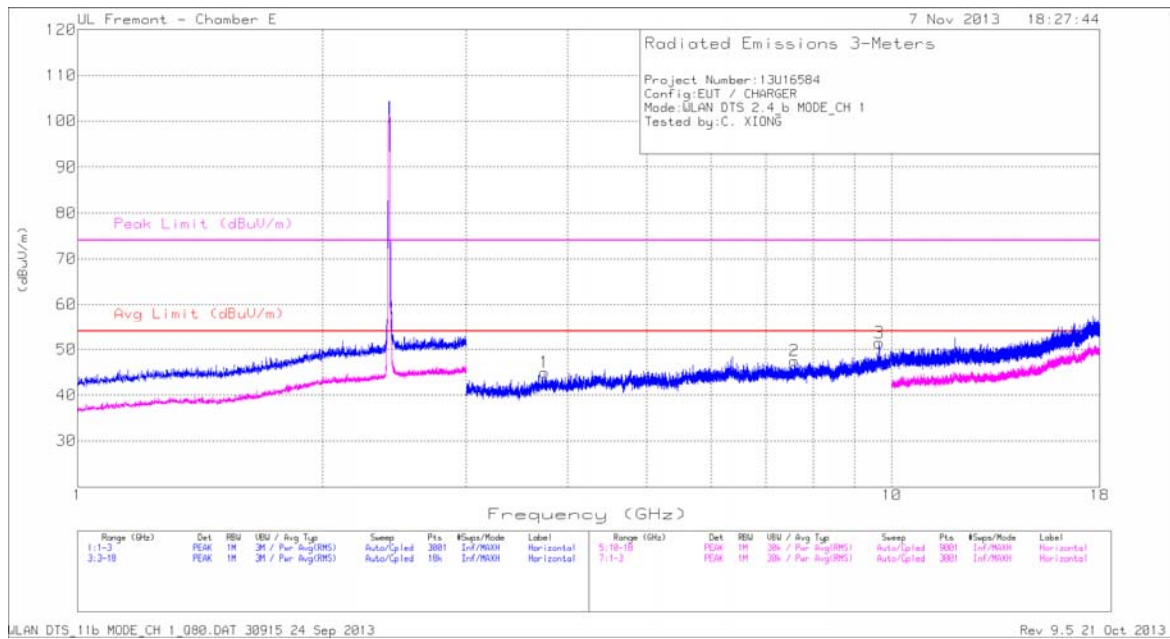
HIGH CHANNEL BANDEDGE, AVERAGE, VERT



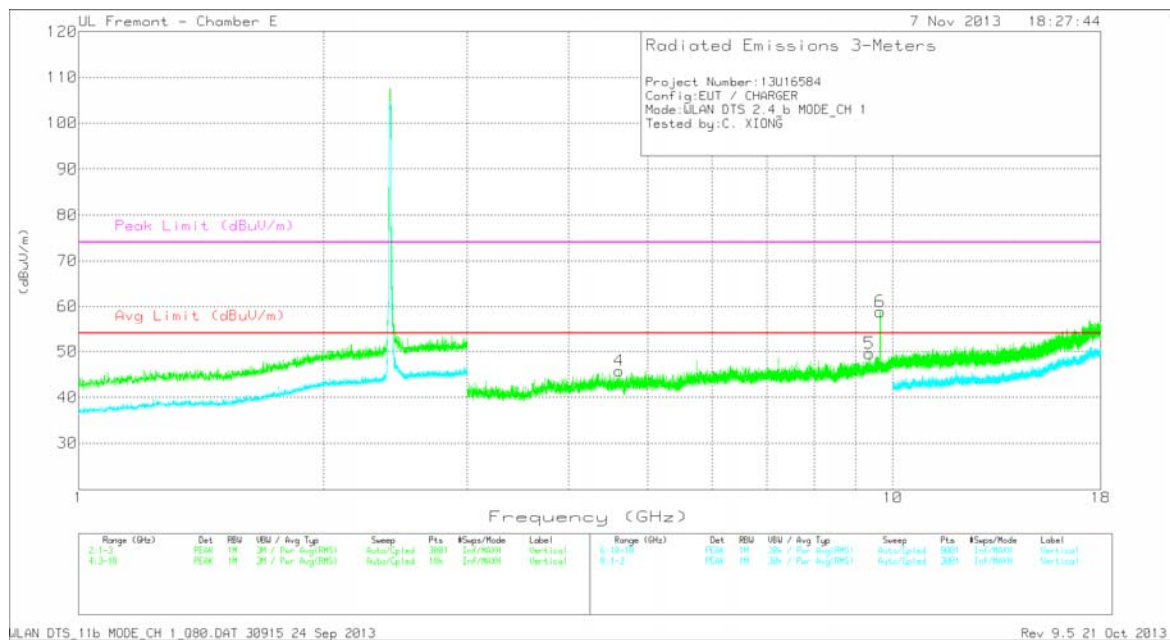
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HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL, CH 1



LOW CHANNEL VERTICAL, CH 1



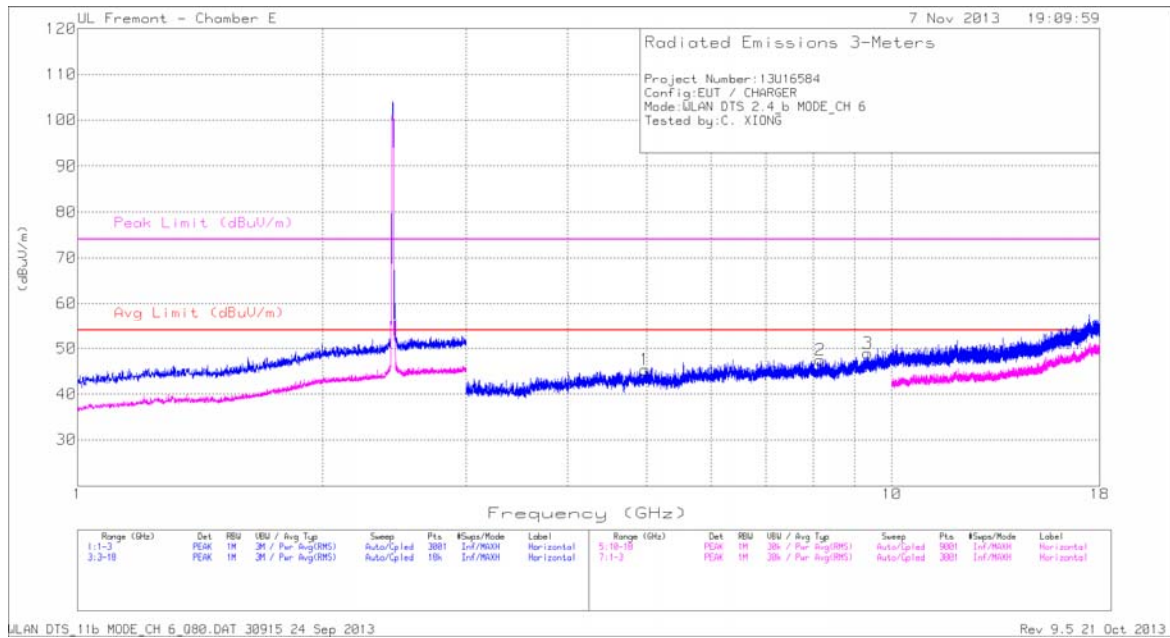
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*3.745	42.55	PK	33.7	-31.3	44.95	54	-9.05	74	-29.05	0-360	199	H
2	*7.590	39.53	PK	36.1	-28.1	47.53	54	-6.47	74	-26.47	0-360	100	H
3	9.648	38.23	PK	37.6	-24.4	51.43	-	-	-	-	0-360	199	H
4	*4.612	41.81	PK	34.3	-30.3	45.81	54	-8.19	74	-28.19	0-360	100	V
5	*9.355	37.56	PK	37.3	-25.3	49.56	54	-4.44	74	-24.44	0-360	200	V
6	9.648	45.68	PK	37.6	-24.4	58.88	-	-	-	-	0-360	200	V

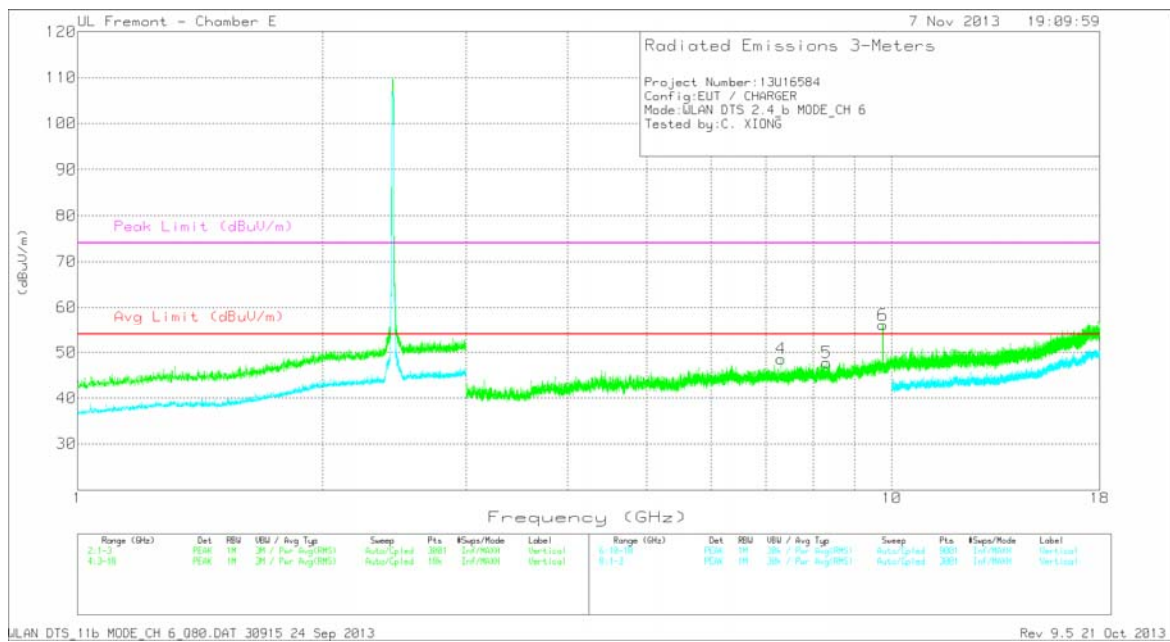
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

MID CHANNEL HORIZONTAL, CH 6



MID CHANNEL VERTICAL, CH 6



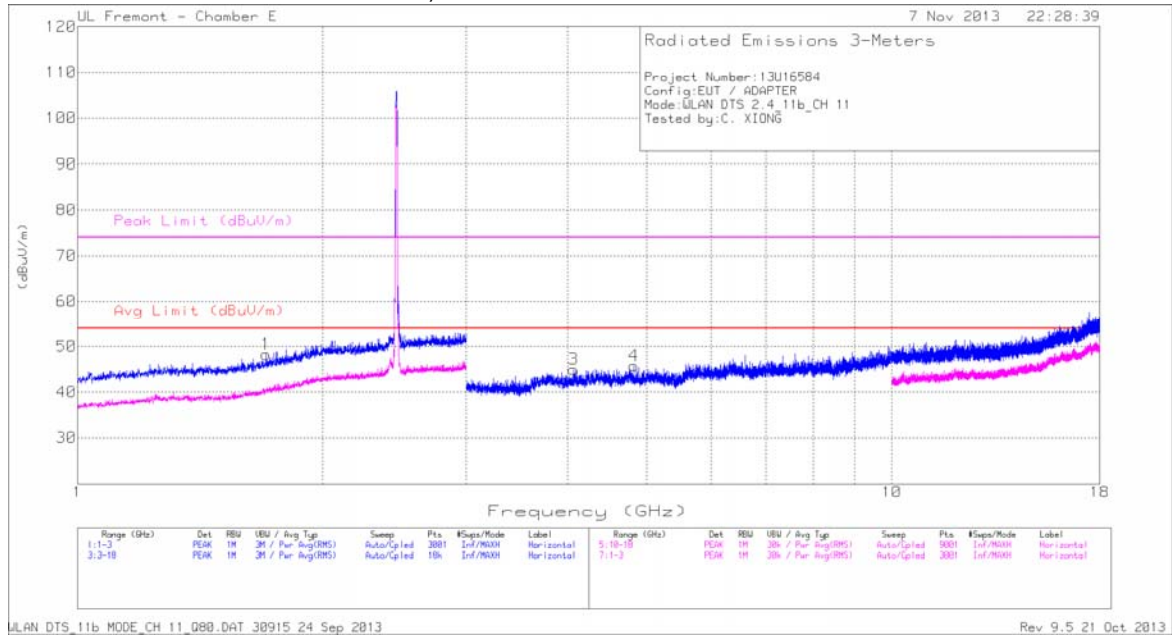
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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*4.977	41.83	PK	34.4	-30.9	45.33	54	-8.67	74	-28.67	0-360	199	H
2	*8.169	39.46	PK	36.2	-28.2	47.46	54	-6.54	74	-26.54	0-360	199	H
3	*9.340	36.53	PK	37.2	-24.8	48.93	54	-5.07	74	-25.07	0-360	100	H
4	*7.311	40.79	PK	36.0	-28.2	48.59	54	-5.41	74	-25.41	0-360	199	V
5	*8.314	38.03	PK	36.2	-26.5	47.73	54	-6.27	74	-26.27	0-360	199	V
6	9.749	43.81	PK	37.6	-25.3	56.11	-	-	-	-	0-360	199	V

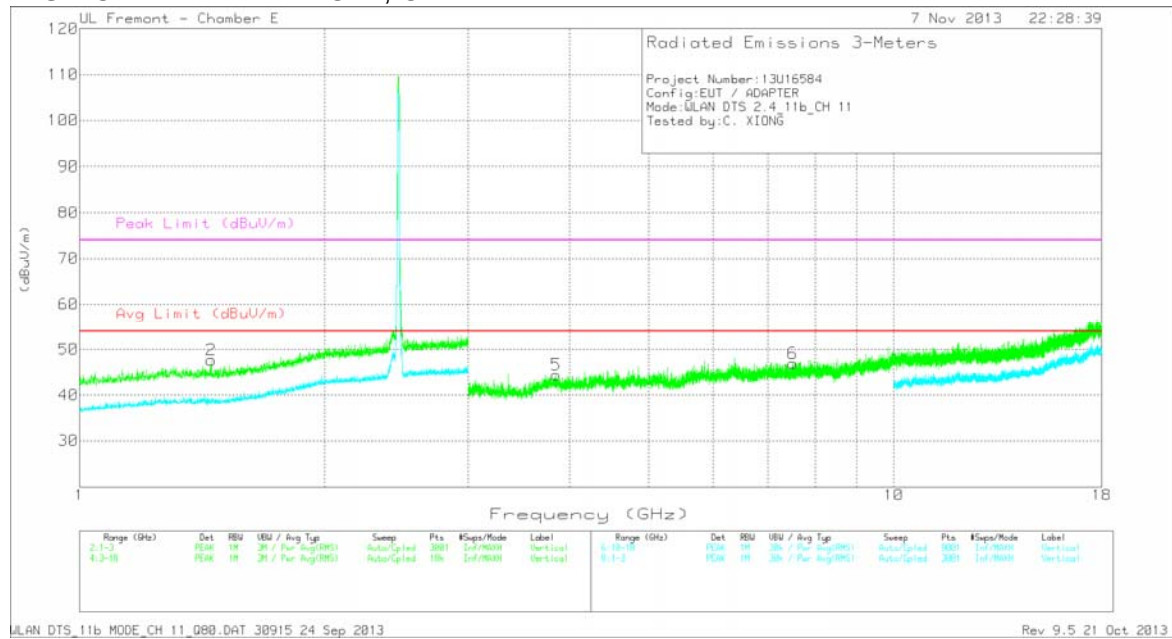
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

HIGH CHANNEL HORIZONTAL, CH 11



HIGH CHANNEL VERTICAL, CH 11



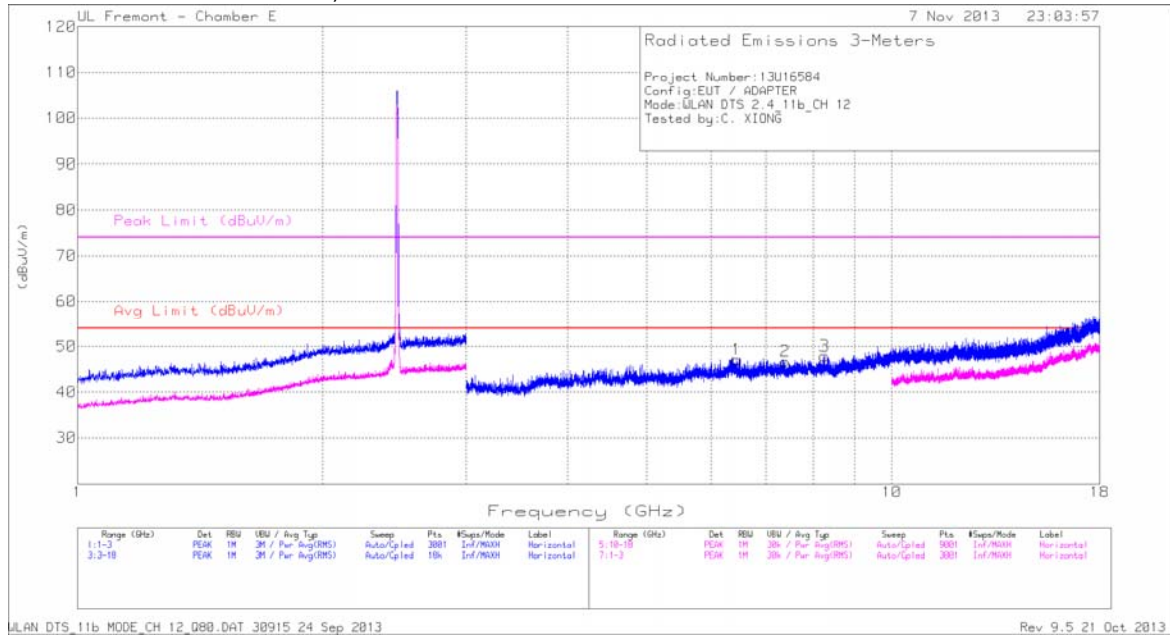
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*1.705	44.45	PK	30.2	-26.4	48.25	54	-5.75	74.0	-25.75	0-360	100	H
2	*1.451	45.28	PK	28.9	-26.5	47.68	54	-6.32	74.0	-26.32	0-360	101	V
3	*4.063	41.49	PK	33.9	-30.4	44.99	54	-9.01	74.0	-29.01	0-360	199	H
4	*4.823	42.57	PK	34.4	-31.2	45.77	54	-8.23	74.0	-28.23	0-360	199	H
5	*3.850	42.61	PK	33.7	-31.9	44.41	54	-9.59	74.0	-29.59	0-360	101	V
6	*7.511	39.33	PK	36.1	-28.5	46.93	54	-7.07	74.0	-27.07	0-360	199	V

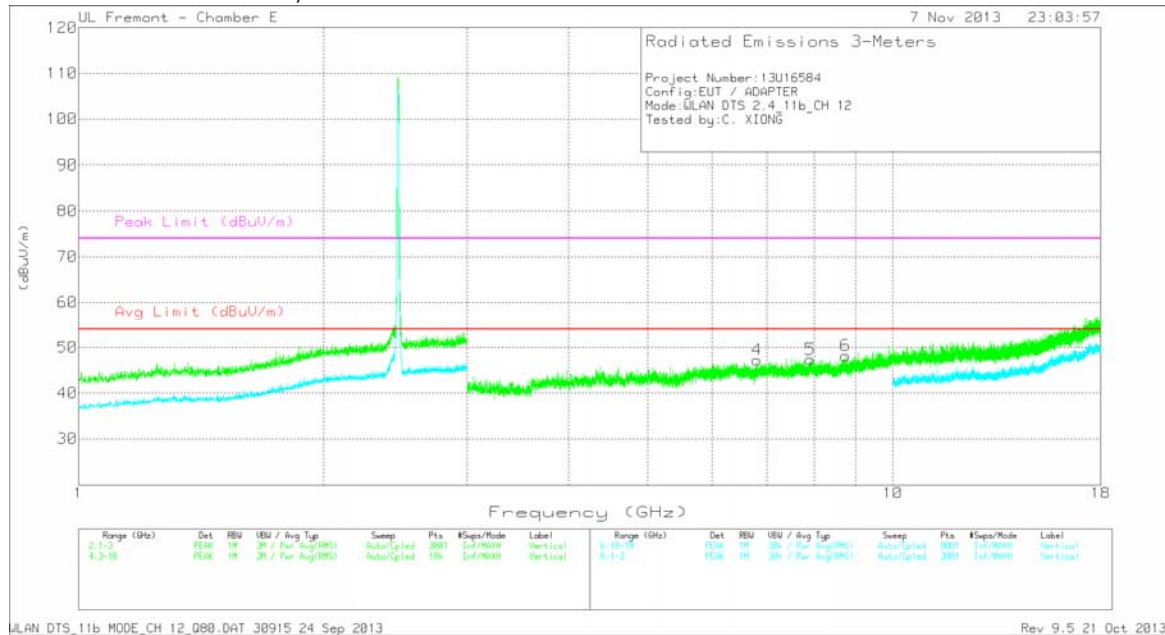
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

2467MHz HORIZONTAL, CH 12



2467MHz VERITICAL, CH 12



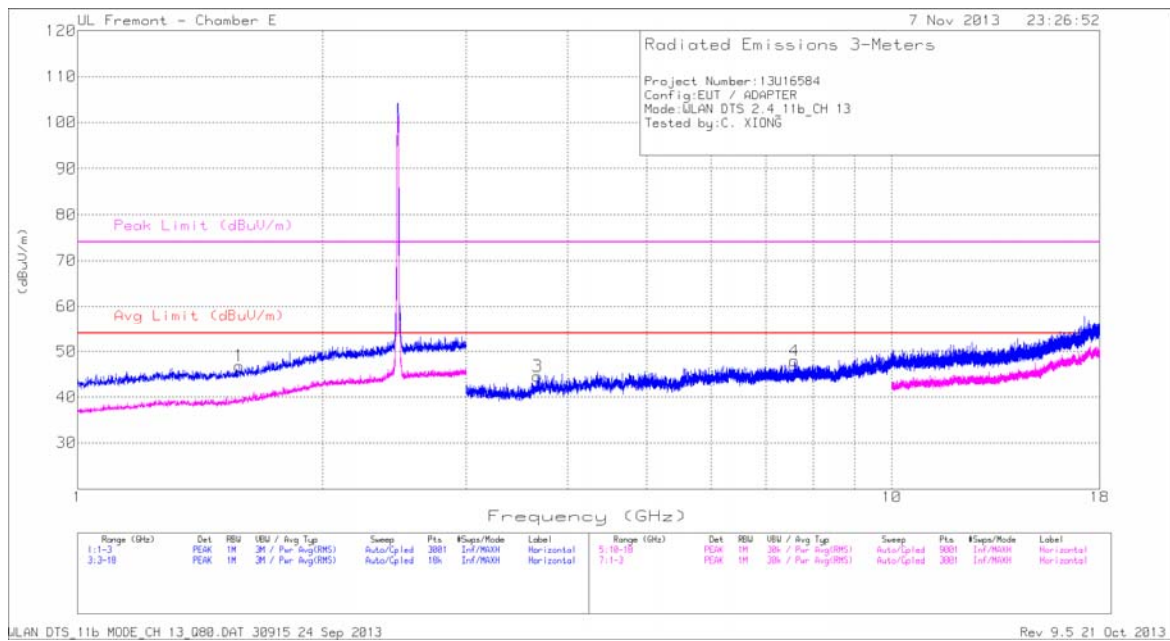
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /3GHz HPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.444	40.62	PK	35.8	-29.3	47.12	-	-	-	-	0-360	199	H
2	*7.400	38.24	PK	36.1	-27.6	46.74	54	-7.26	74.0	-27.26	0-360	199	H
3	*8.265	38.38	PK	36.2	-26.7	47.88	54	-6.12	74.0	-26.12	0-360	100	H
4	6.814	40.77	PK	35.9	-29.4	47.27	-	-	-	-	0-360	100	V
5	7.918	38.06	PK	36.2	-26.9	47.36	-	-	-	-	0-360	199	V
6	8.750	38.08	PK	36.6	-26.5	48.18	-	-	-	-	0-360	199	V

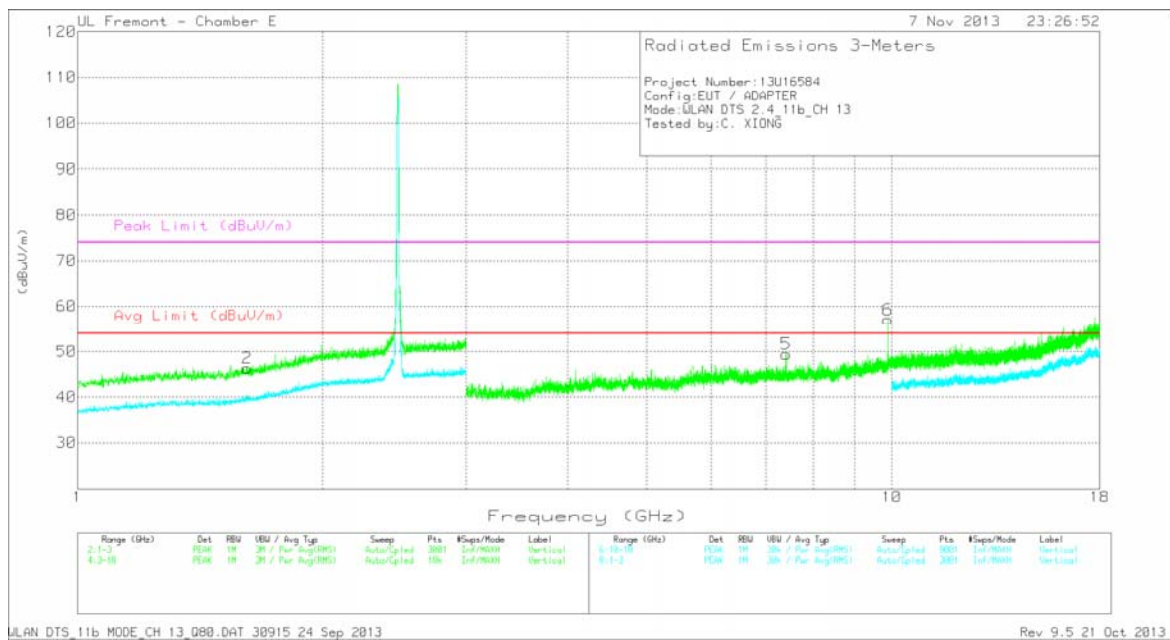
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

2472MHz HORIZONTAL, CH 13



2472MHz VERITICAL, CH 13



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*1.580	43.98	PK	29.3	-26.5	46.78	54	-7.22	74.0	-27.22	0-360	199	H
2	*1.616	43.23	PK	29.6	-26.5	46.33	54	-7.67	74.0	-27.67	0-360	199	V
3	*3.672	42.47	PK	33.5	-31.4	44.57	54	-9.43	74.0	-29.43	0-360	199	H
4	*7.591	39.95	PK	36.1	-28.1	47.95	54	-6.05	74.0	-26.05	0-360	101	H
5	*7.416	41.32	PK	36.1	-28.0	49.42	-	-	74.0	-24.58	0-360	199	V
	*7.416	33.93	MAv1	36.1	-28.1	41.93	54	-12.07	-	-	281	296	V
6	9.888	44.54	PK	37.9	-25.4	57.04	-	-	-	-	0-360	100	V

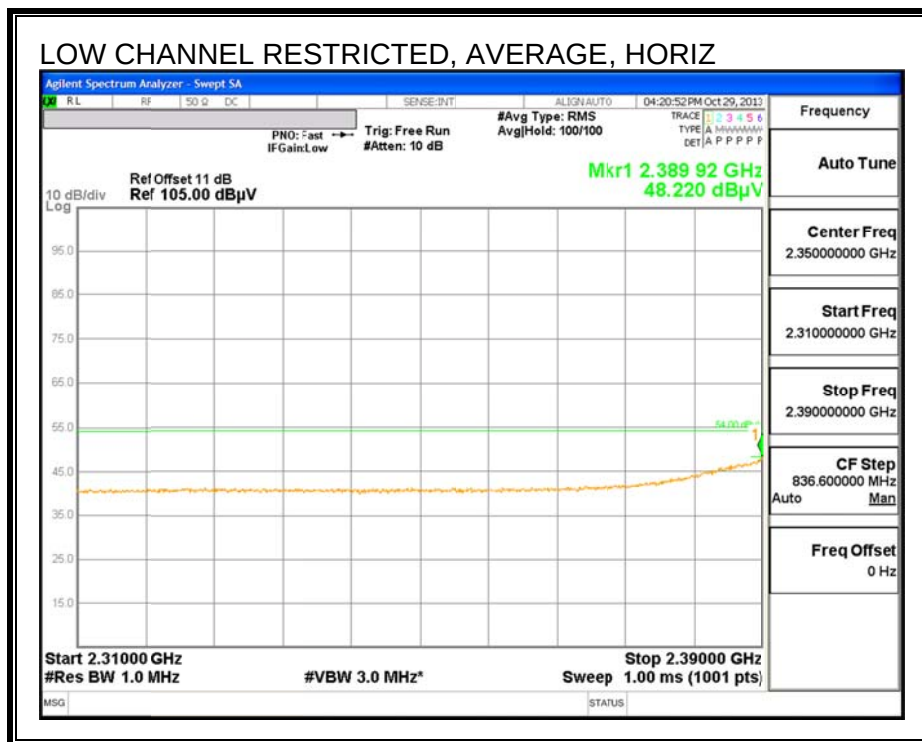
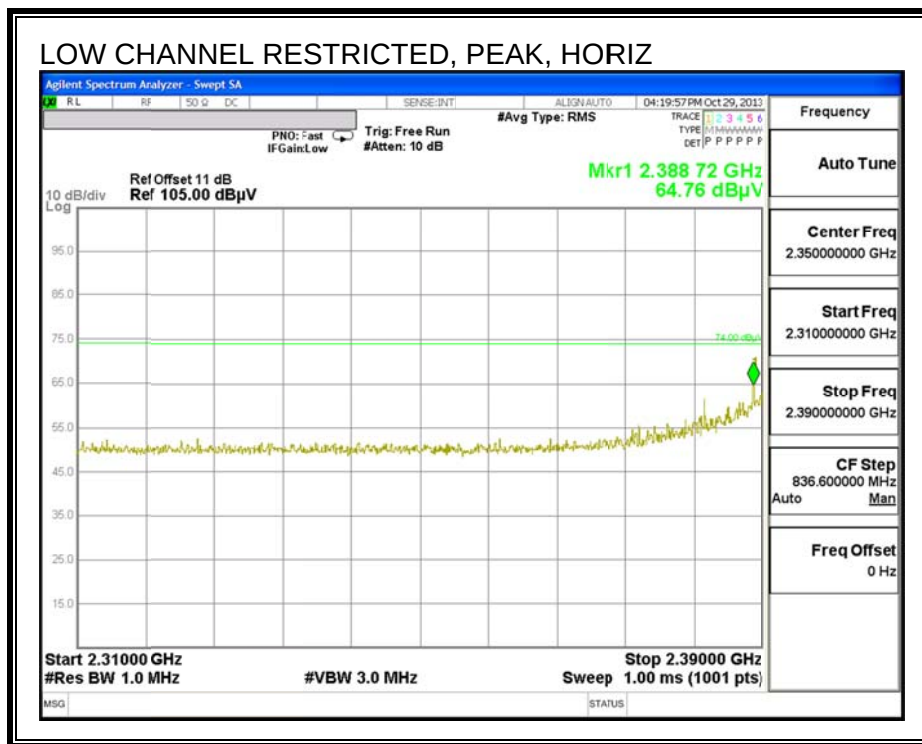
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

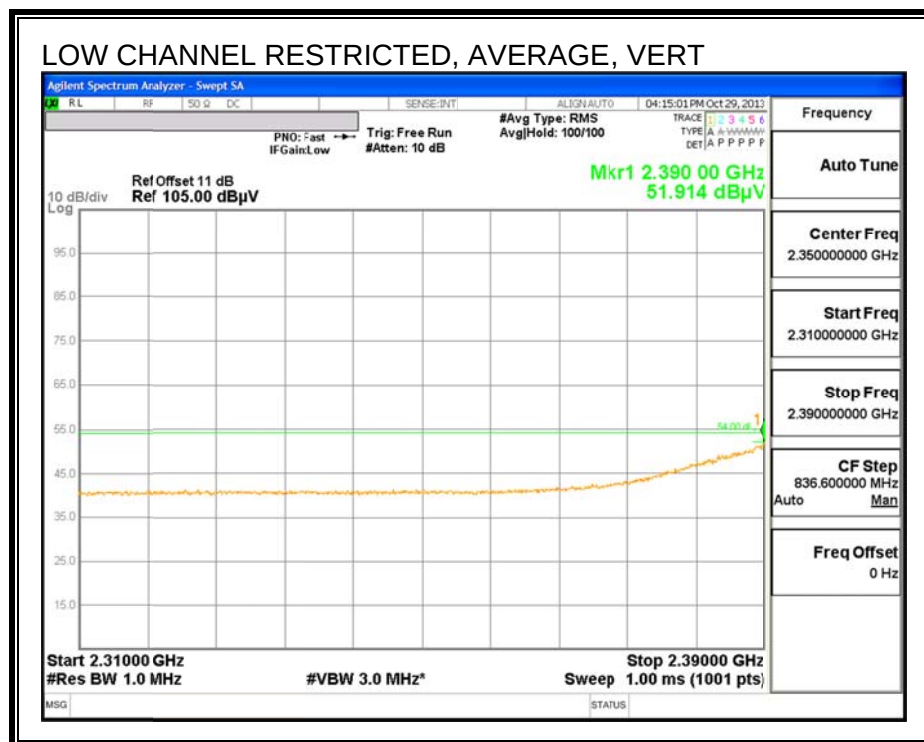
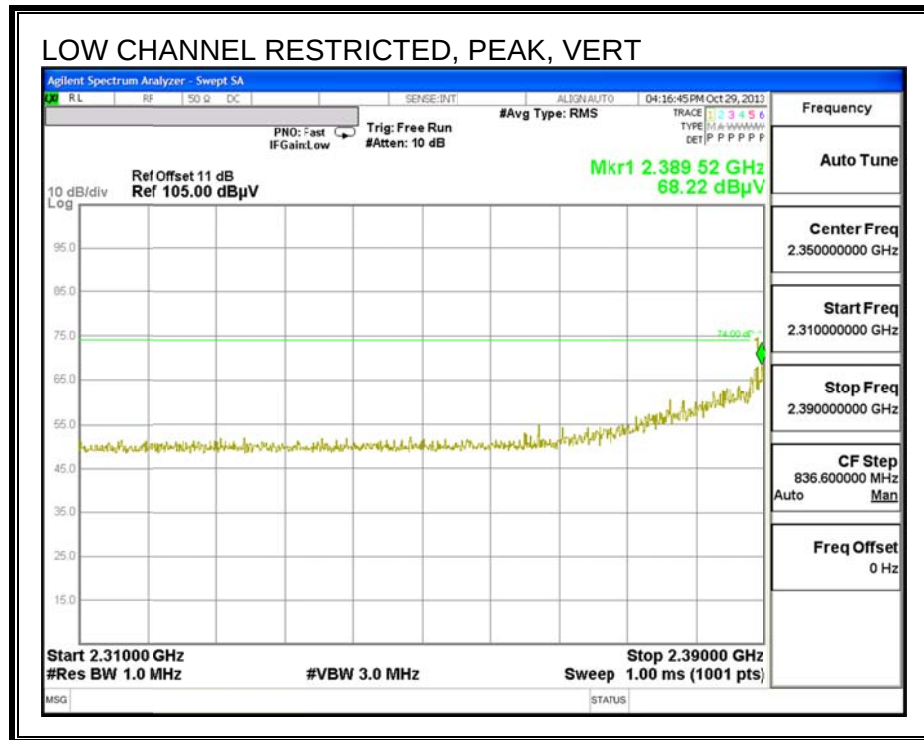
PK - Peak detector

MAv1 - KDB558074 Option 1 Maximum RMS Average

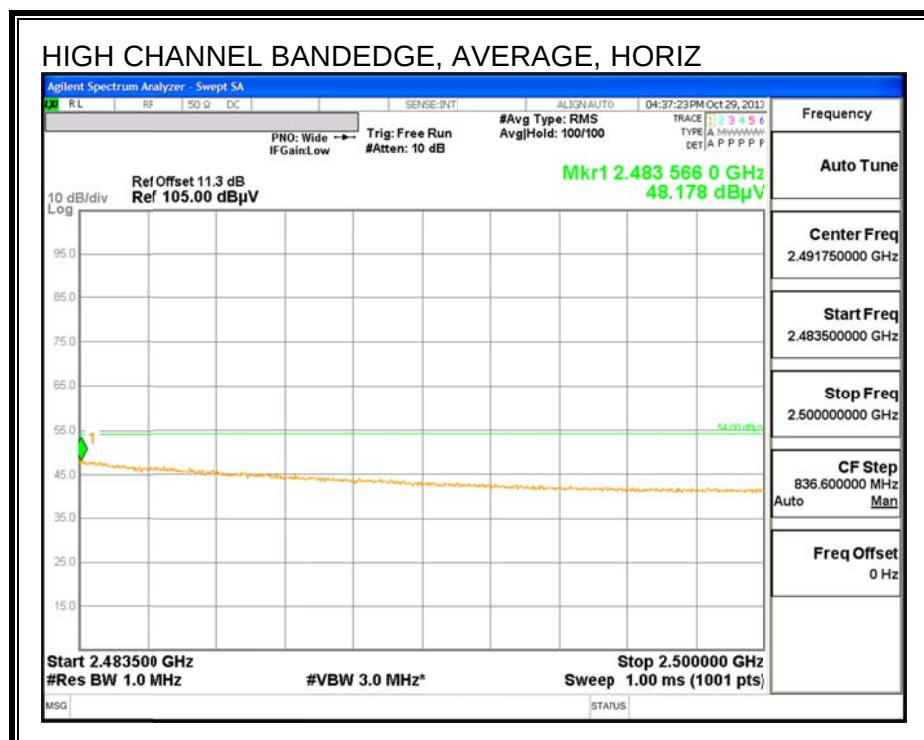
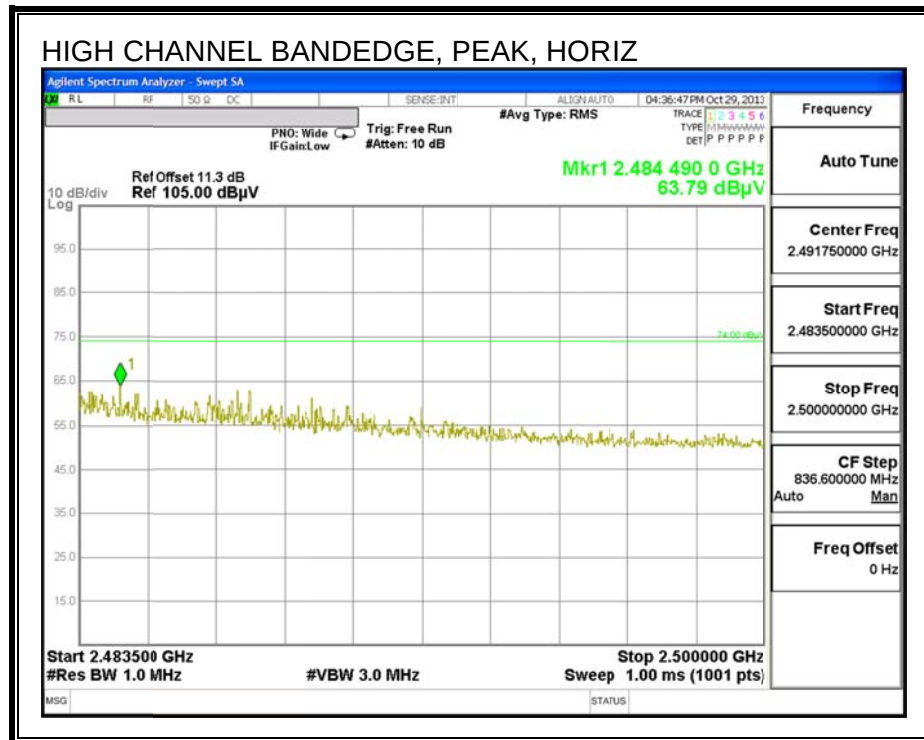
9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

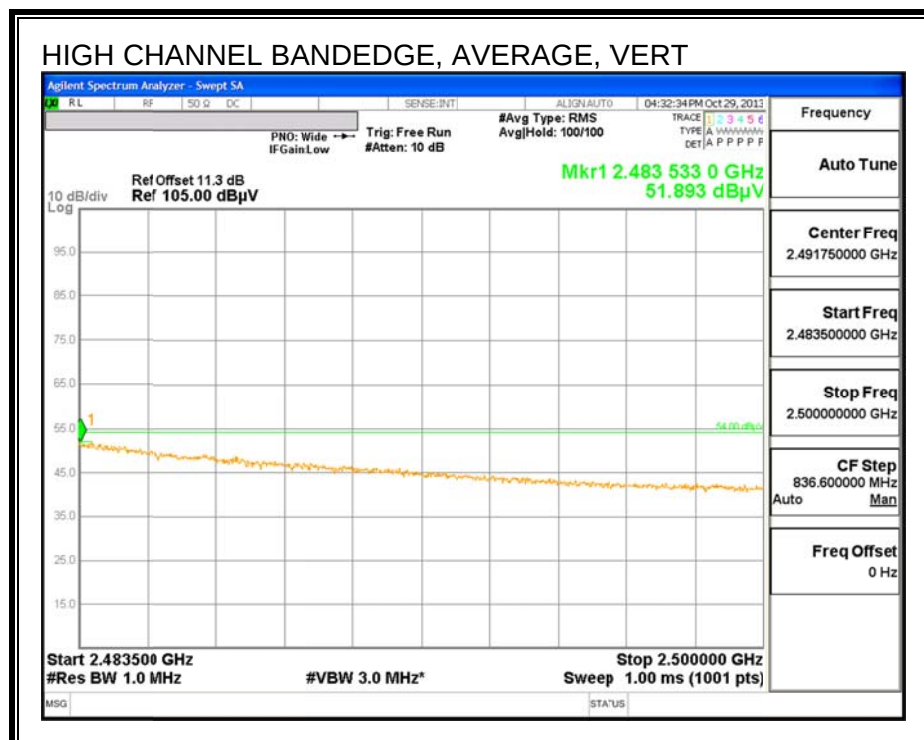
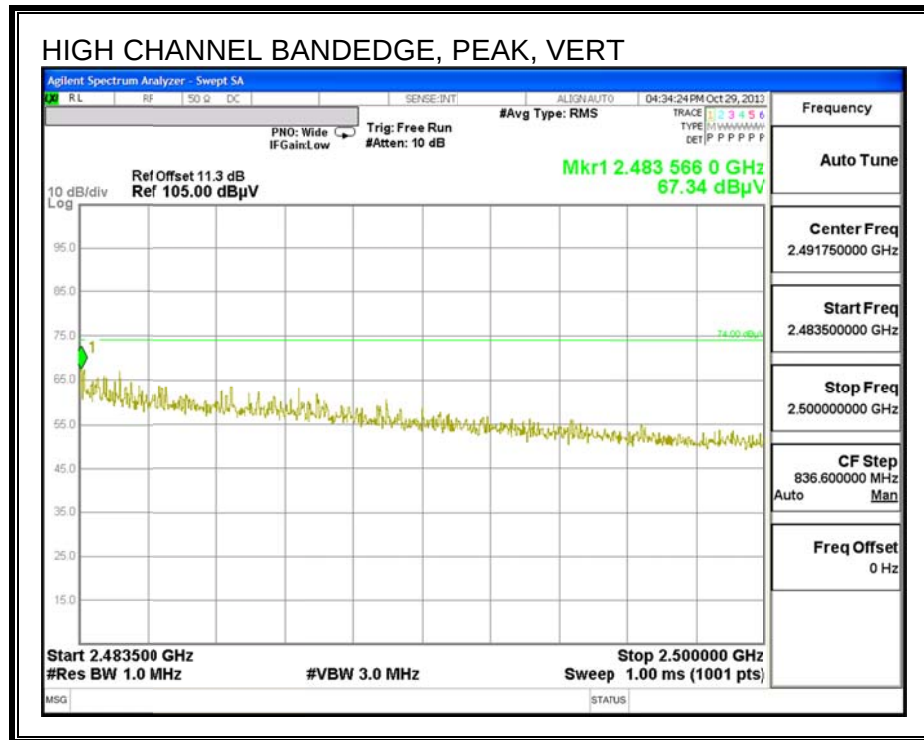
RESTRICTED BANEDGE (LOW CHANNEL) CH1



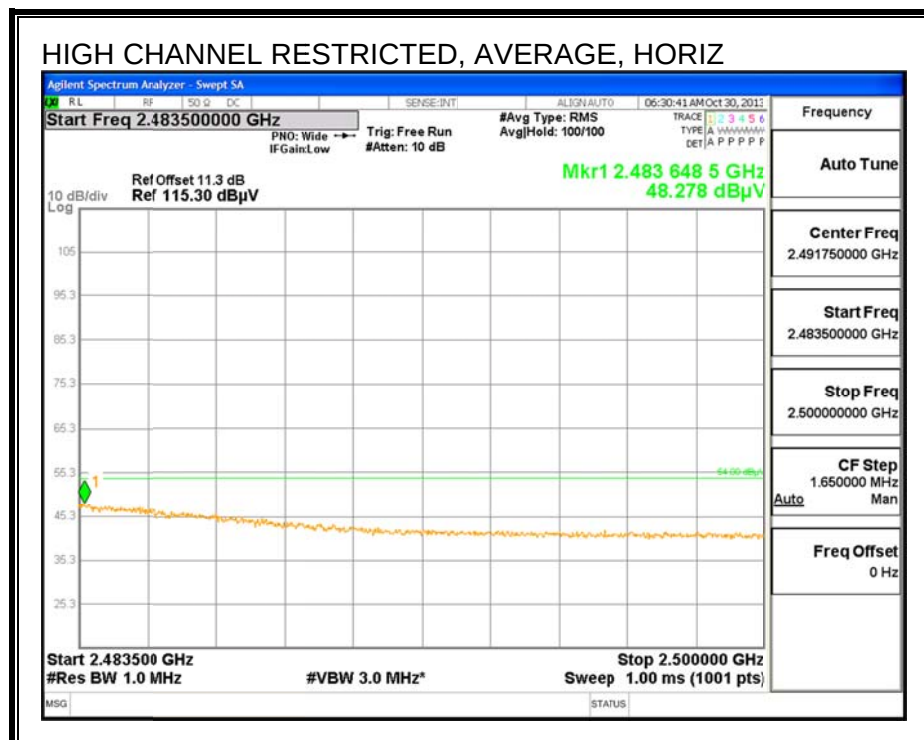
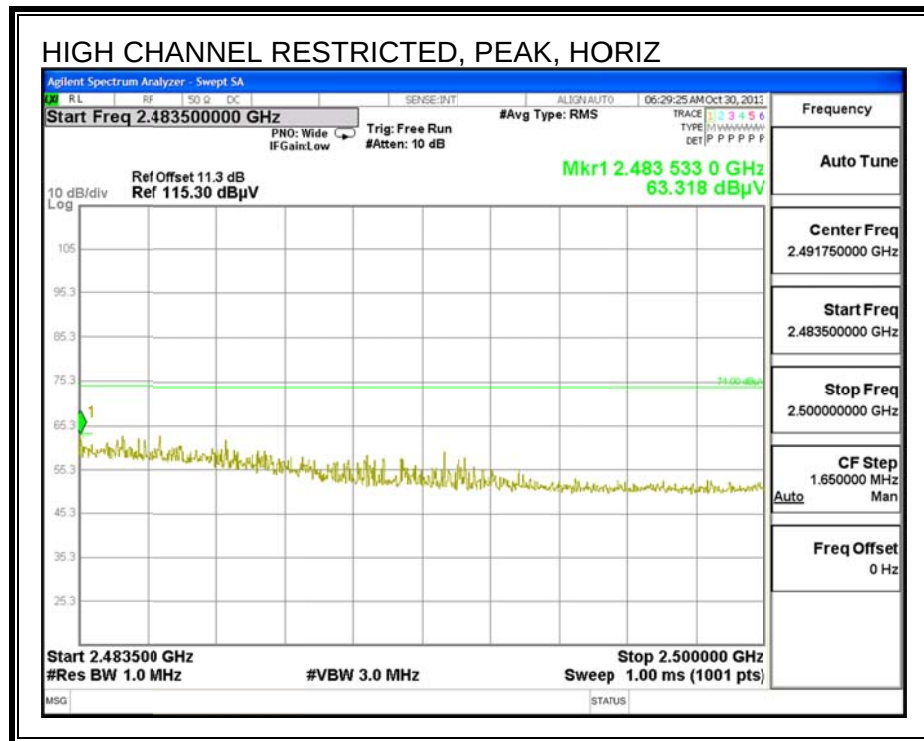


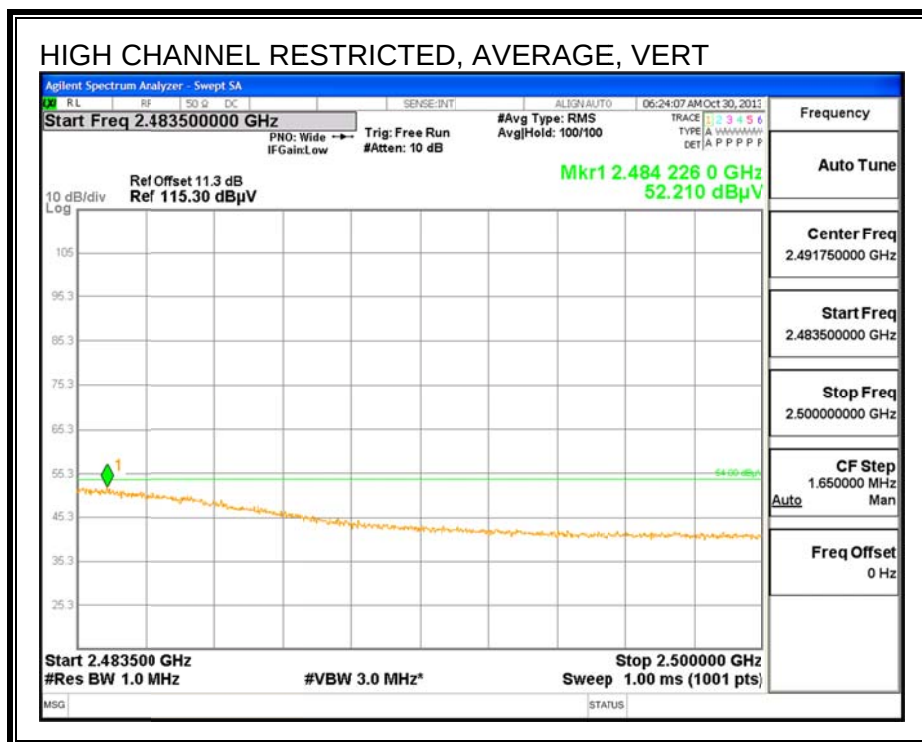
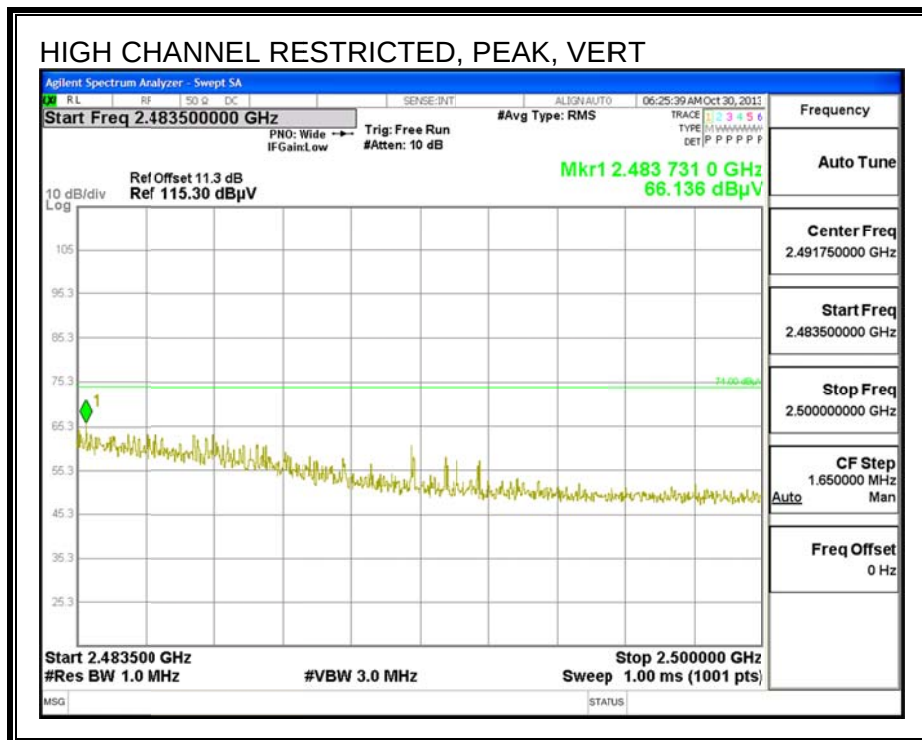
RESTRICTED BANDEDGE (HIGH CHANNEL) CH11



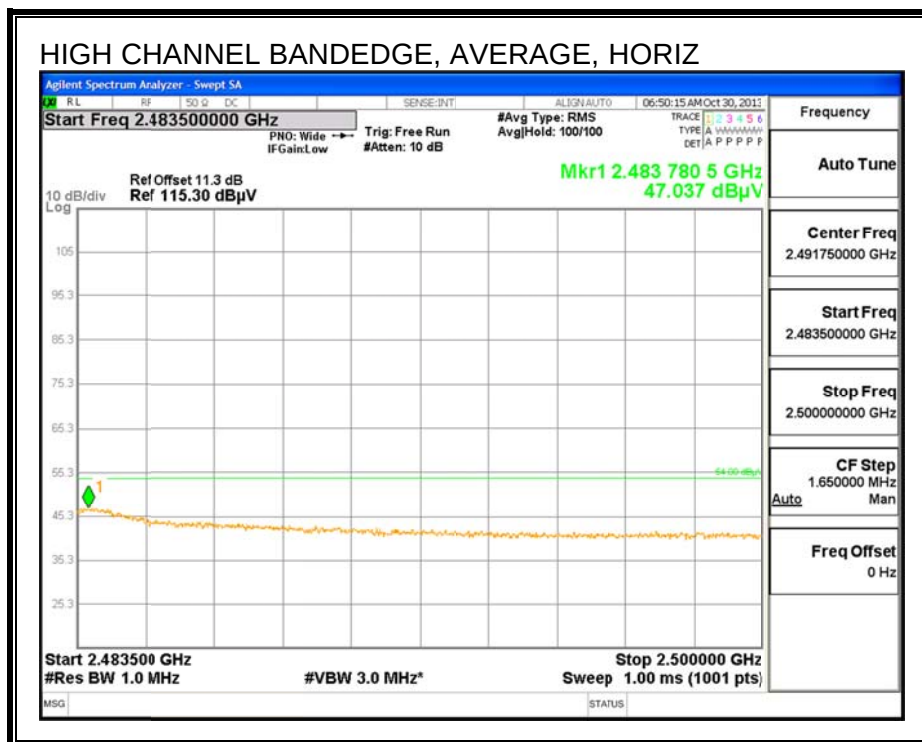
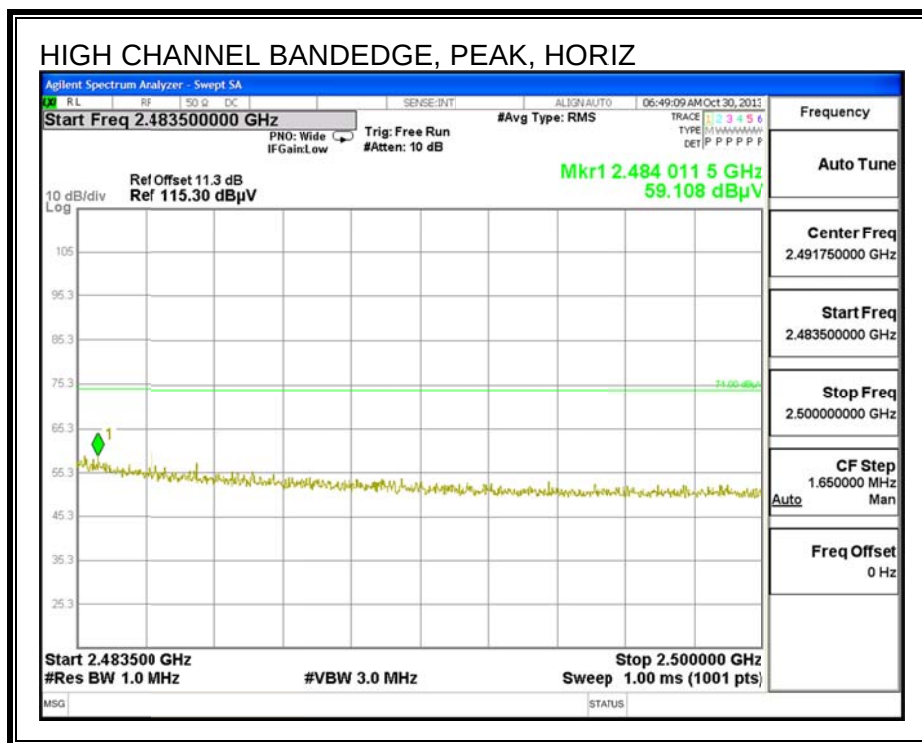


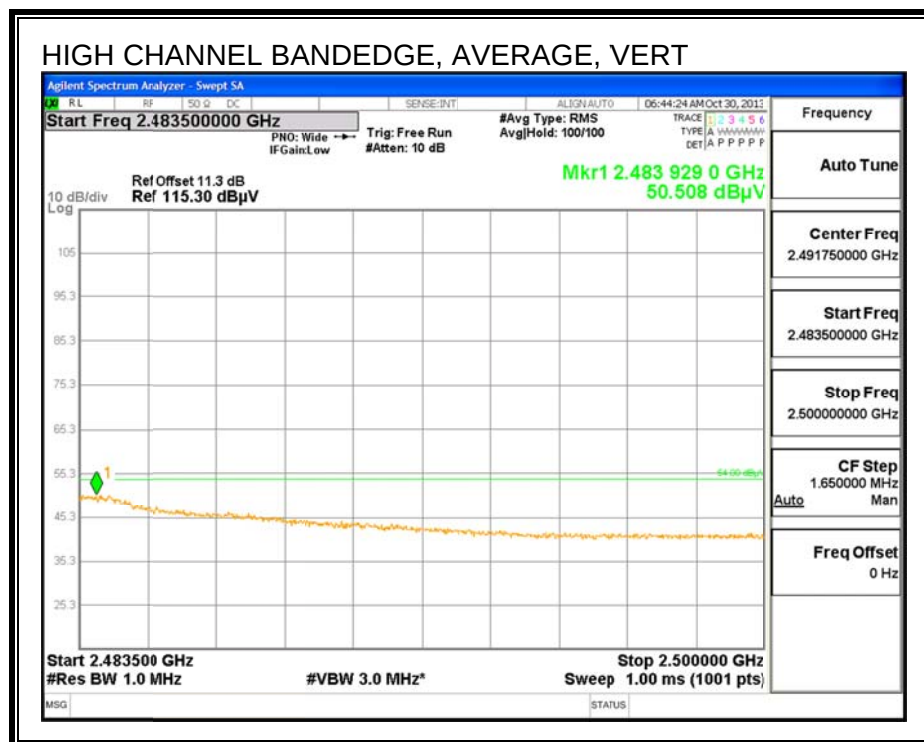
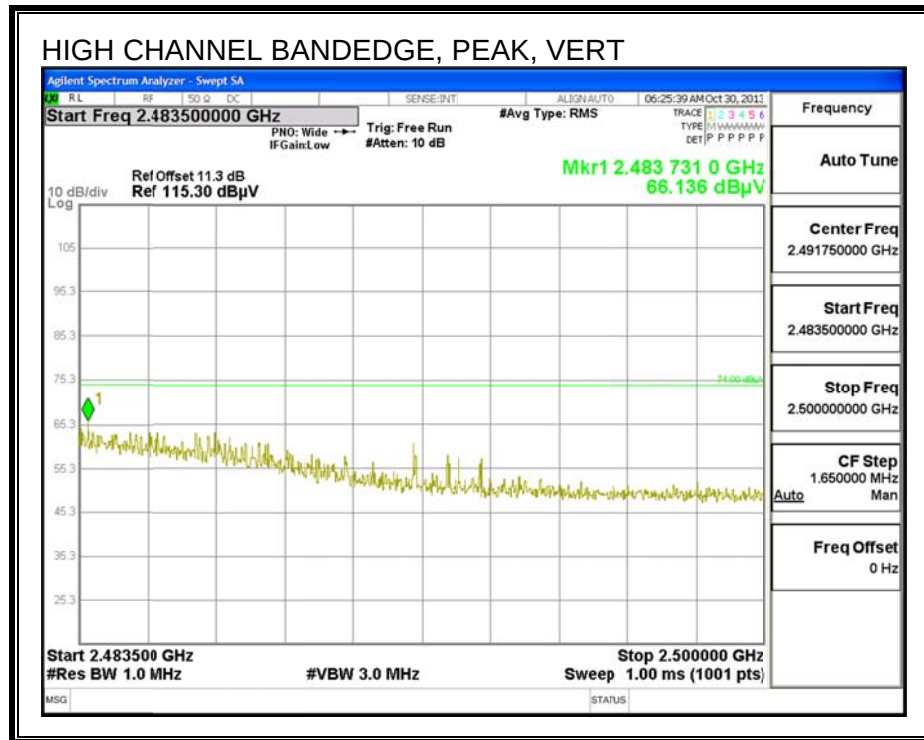
RESTRICTED BANDEDGE (HIGH CHANNEL) CH12



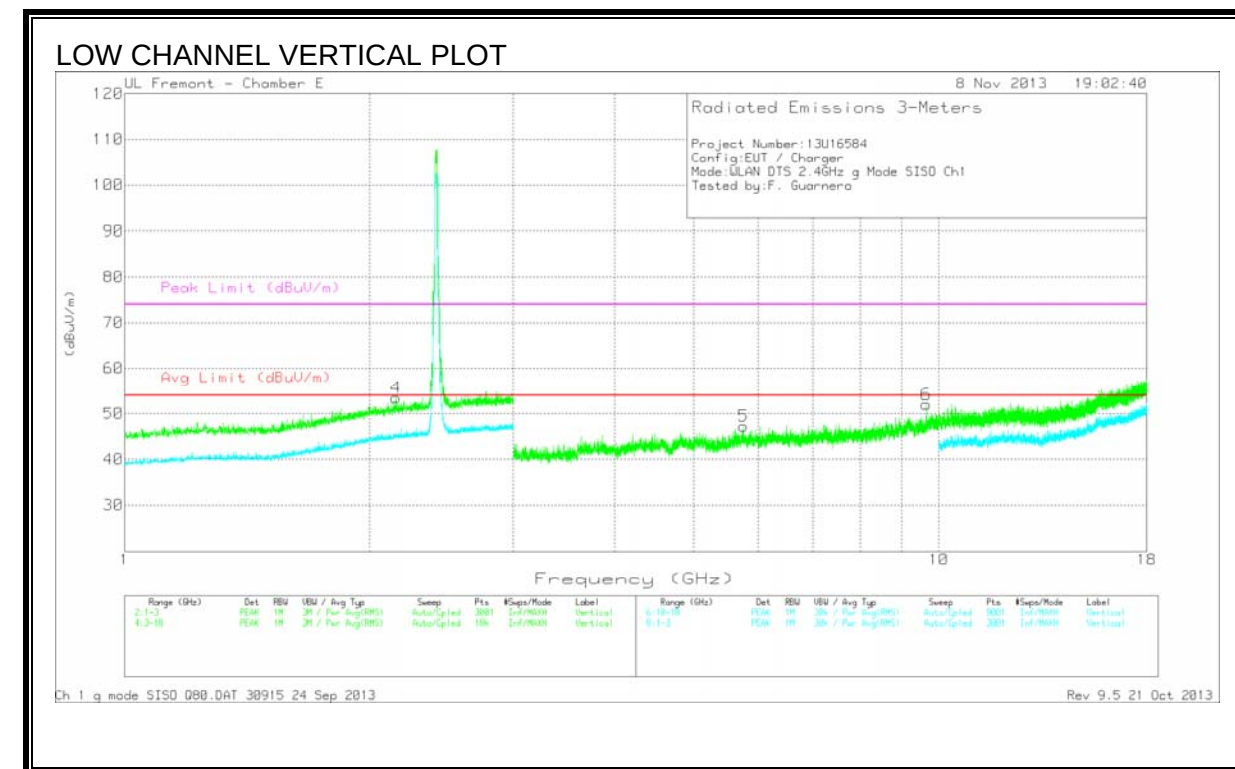
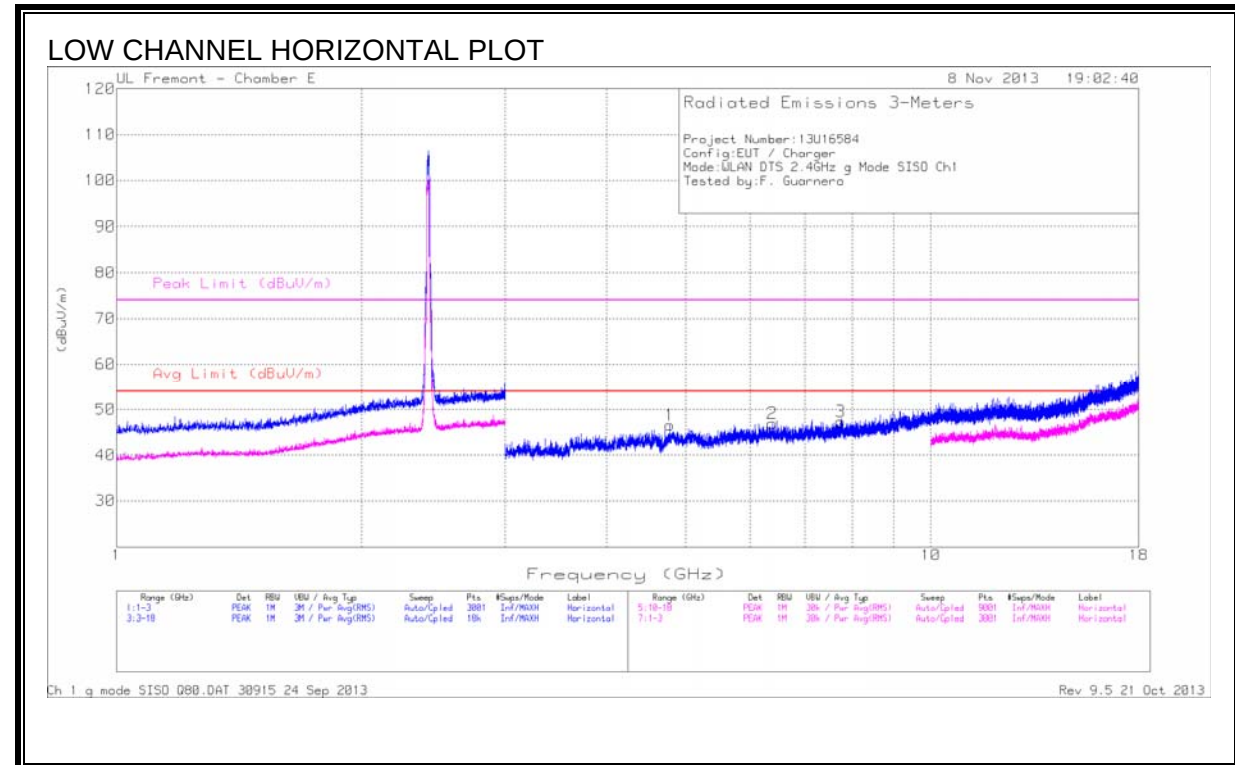


RESTRICTED BANDEDGE (HIGH CHANNEL) CH13





HARMONICS AND SPURIOUS EMISSIONS CH1



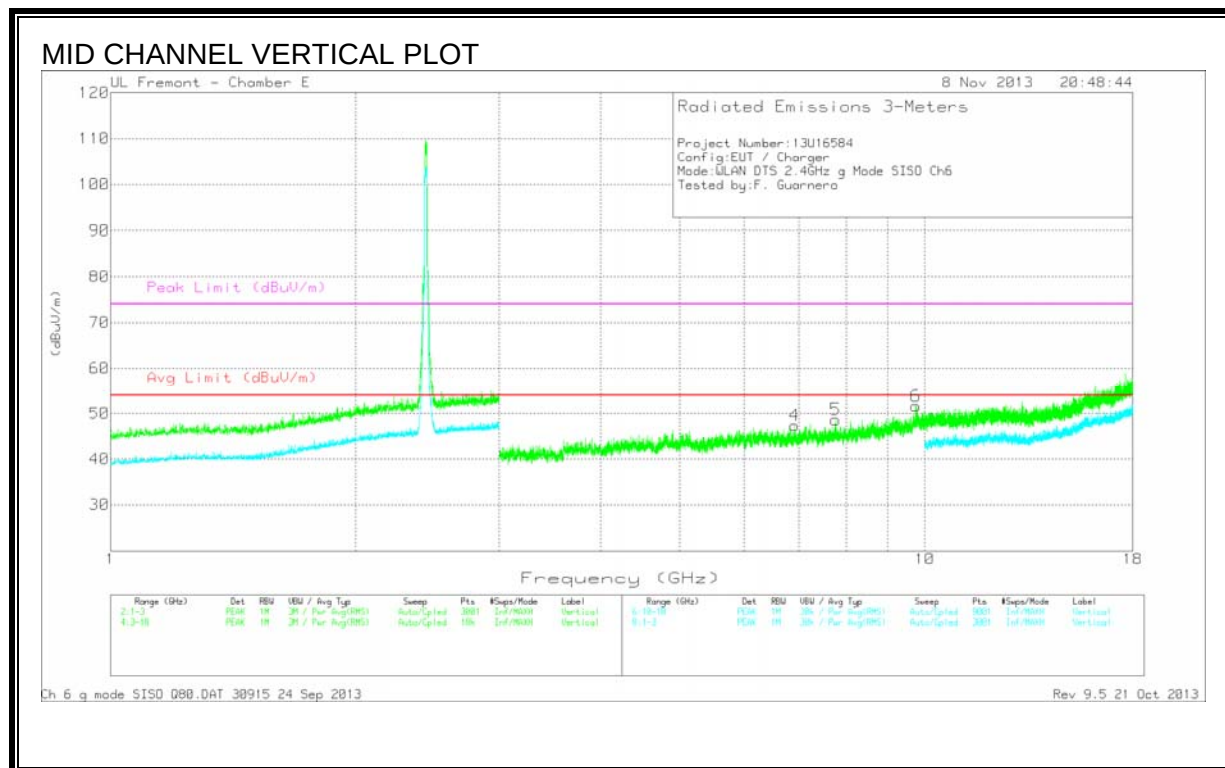
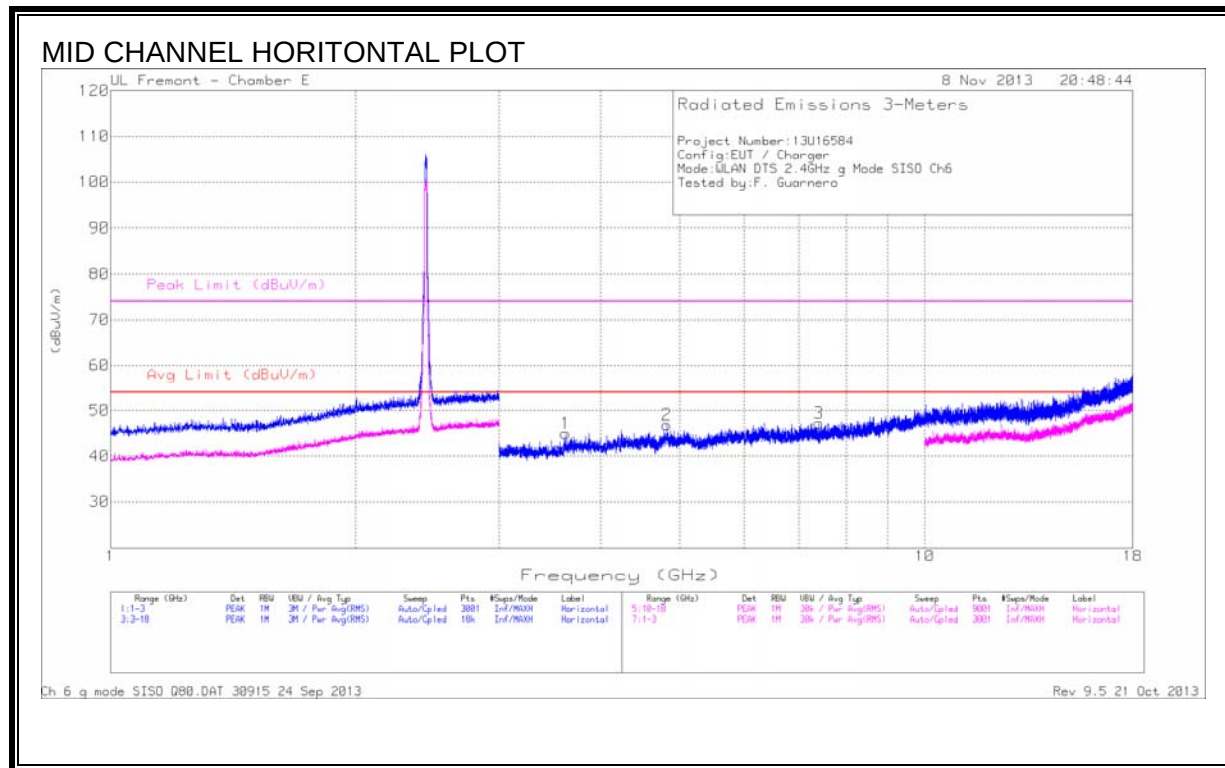
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*4.781	40.17	PK	34.4	-28.0	46.57	54	-7.43	74.0	-27.43	0-360	201	H
2	6.389	37.71	PK	35.9	-26.7	46.91	-	-	-	-	0-360	100	H
3	*7.752	36.11	PK	36.1	-24.9	47.31	54	-6.69	74.0	-26.69	0-360	100	H
4	2.155	42.70	PK	32.1	-21.3	53.50	-	-	-	-	0-360	200	V
5	5.755	39.04	PK	35.3	-27.1	47.24	-	-	-	-	0-360	201	V
6	9.651	37.53	PK	37.3	-22.8	52.03	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS CH6



DATA

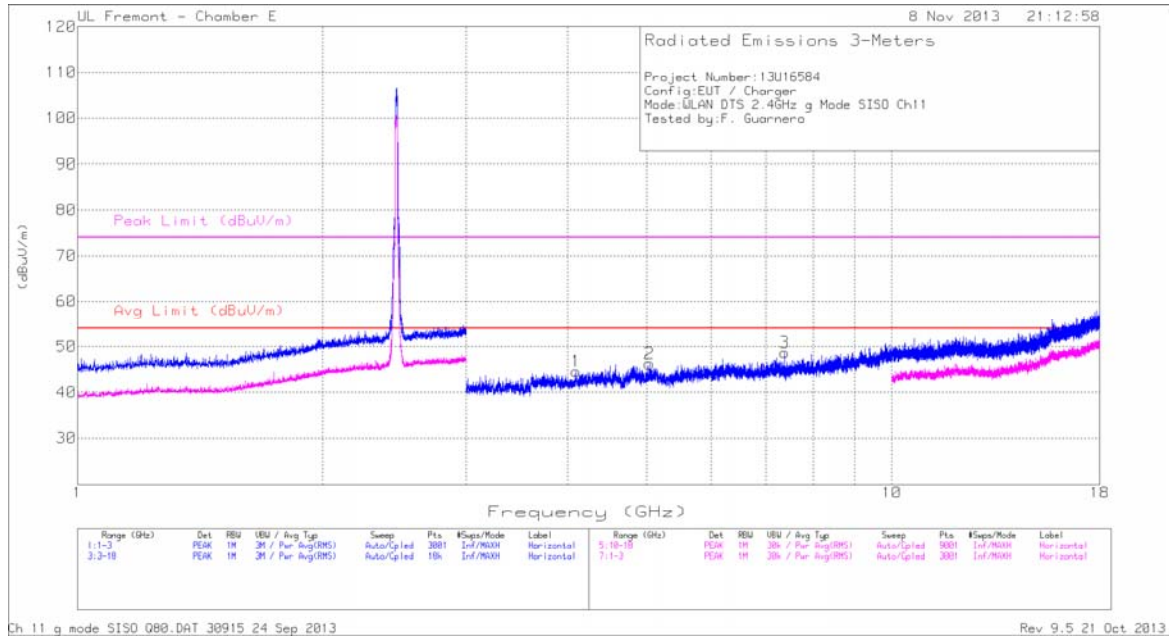
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*3.622	40.17	PK	33.5	-28.7	44.97	54	-9.03	74.0	-29.03	0-360	201	H
2	*4.821	39.61	PK	34.4	-27.2	46.81	54	-7.19	74.0	-27.19	0-360	201	H
4	6.920	37.47	PK	35.8	-25.9	47.37	-	-	-	-	0-360	201	V
3	*7.415	36.89	PK	35.9	-25.6	47.19	54	-6.81	74.0	-26.81	0-360	100	H
5	7.770	37.24	PK	36.1	-24.7	48.64	-	-	-	-	0-360	100	V
6	9.749	36.03	PK	37.4	-21.8	51.63	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

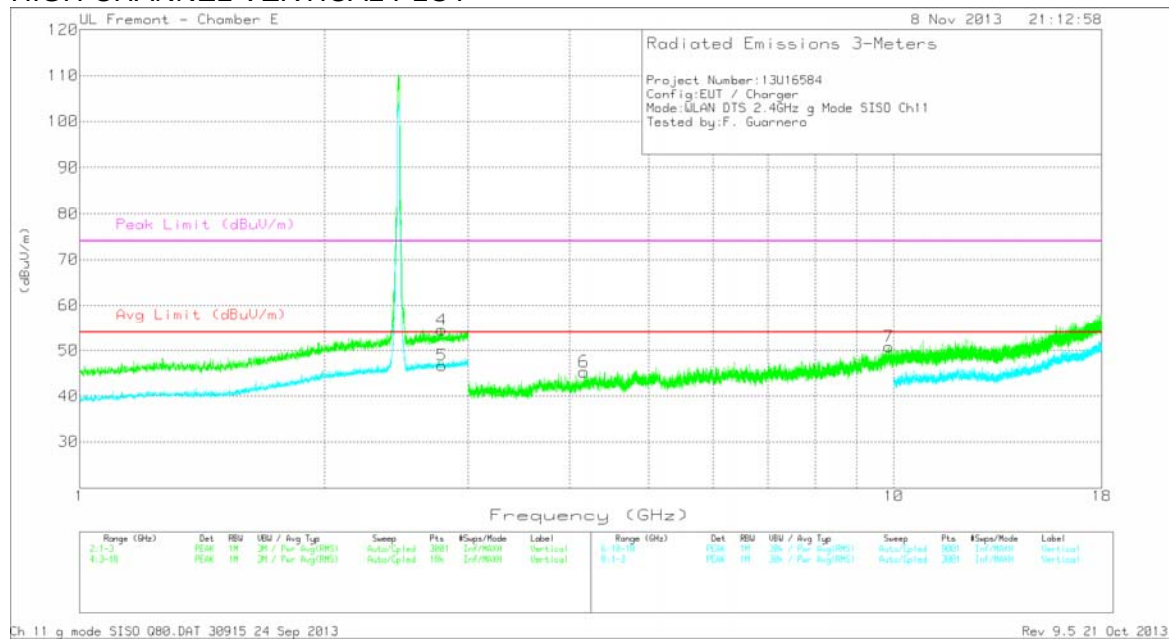
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS CH11

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*4.096	39.67	PK	33.8	-28.9	44.57	54	-9.43	74.0	-29.43	0-360	201	H
2	*5.037	39.44	PK	34.4	-27.6	46.24	54	-7.76	74.0	-27.76	0-360	100	H
3	*7.383	38.56	PK	35.9	-25.8	48.66	-	-	74.0	-25.34	0-360	100	H
	*7.383	26.83	MAv1	35.9	-25.8	36.93	54	-17.07	-	-	50	304	H
4	*2.783	42.26	PK	32.9	-20.6	54.56	-	-	74.0	-19.44	0-360	200	V
5	*2.783	34.43	Avg	32.9	-20.6	46.73	54	-7.27	-	-	0-360	100	V
6	*4.164	40.21	PK	33.9	-28.8	45.31	54	-8.69	74.0	-28.69	0-360	100	V
7	9.864	34.94	PK	37.6	-21.7	50.84	-	-	-	-	0-360	201	V

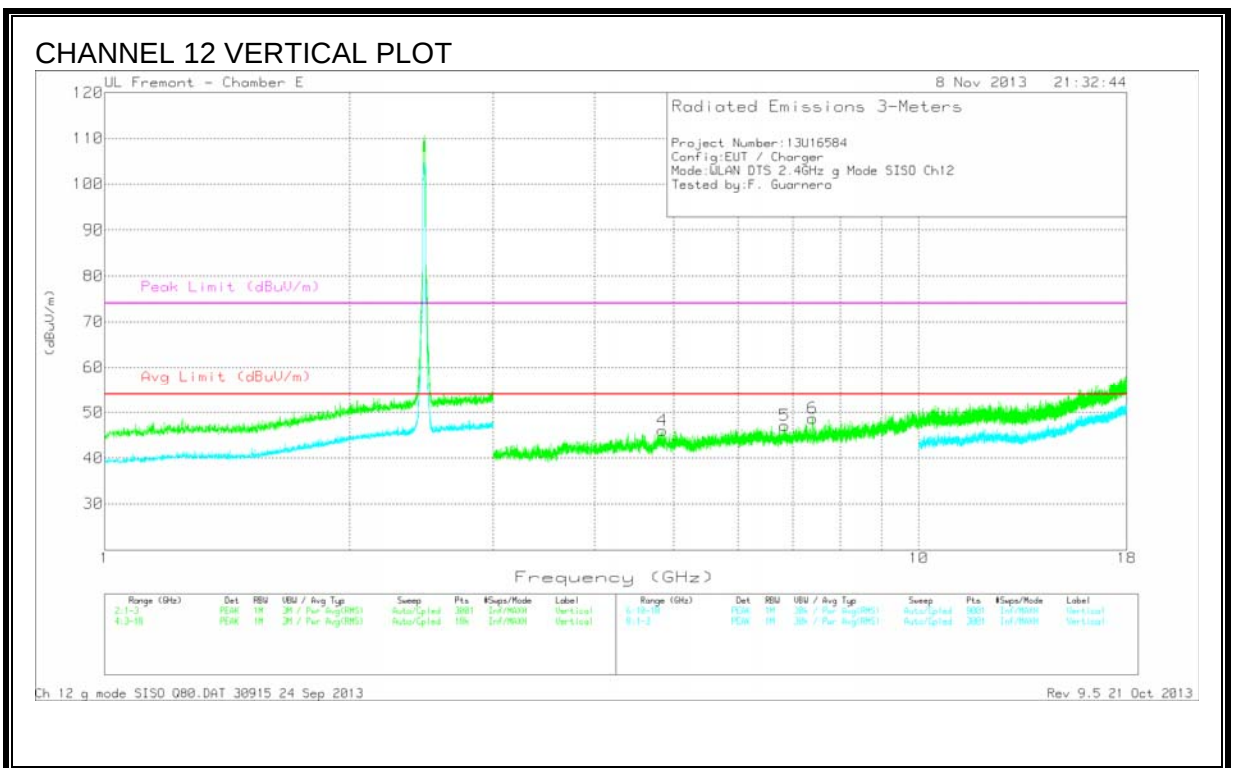
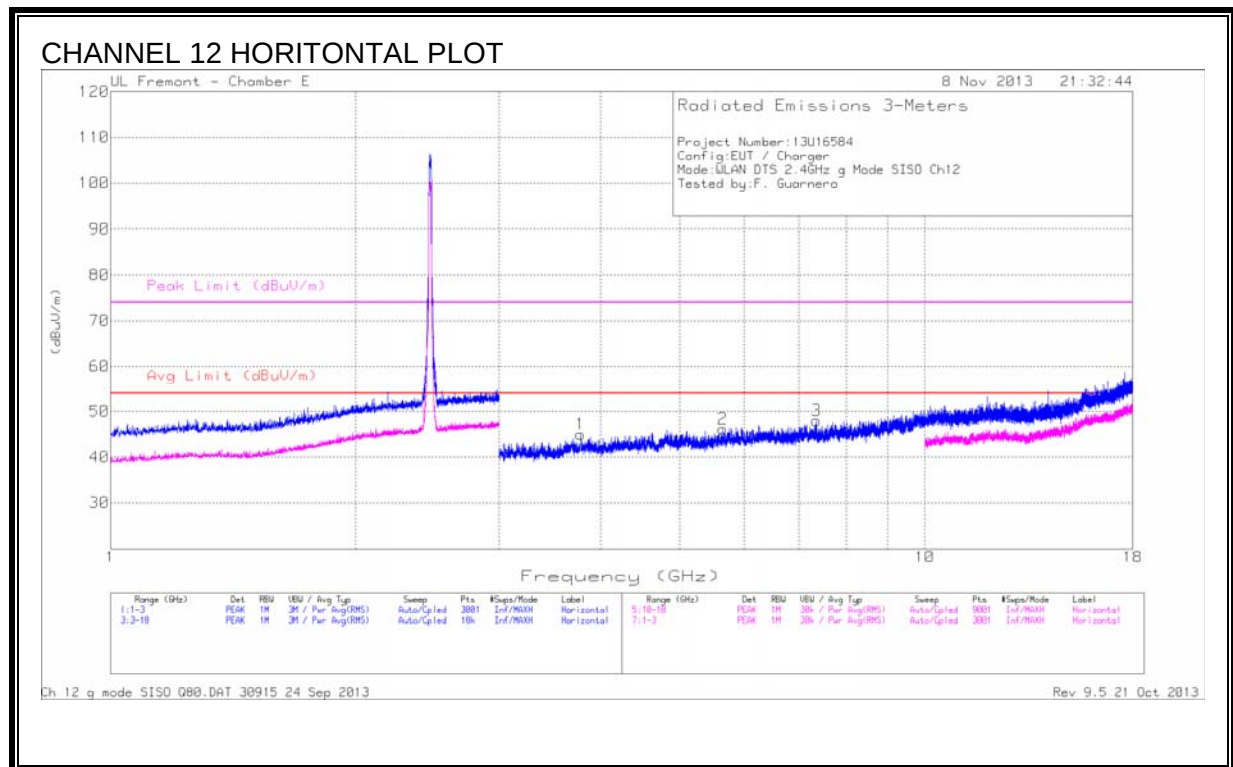
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

MAv1 - KDB558074 Option 1 Maximum RMS Average

Avg - Video bandwidth < Resolution bandwidth

HARMONICS AND SPURIOUS EMISSIONS CH12



DATA

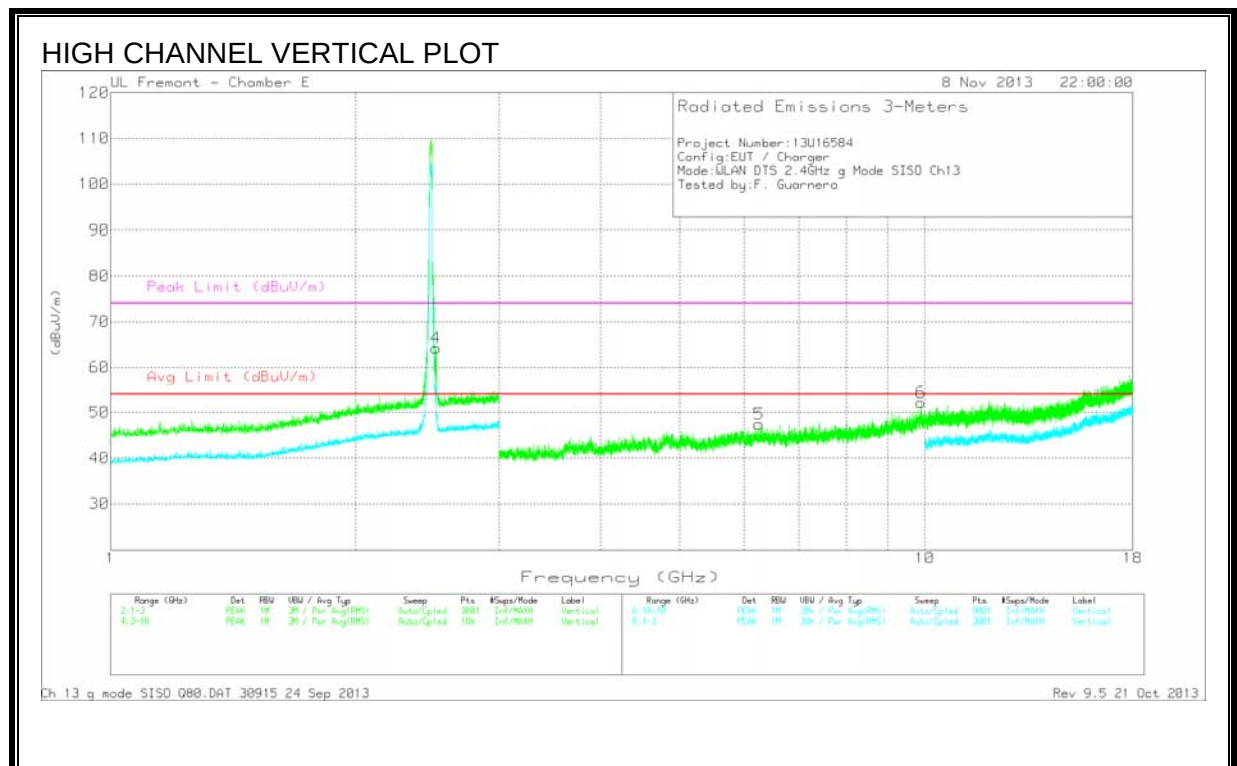
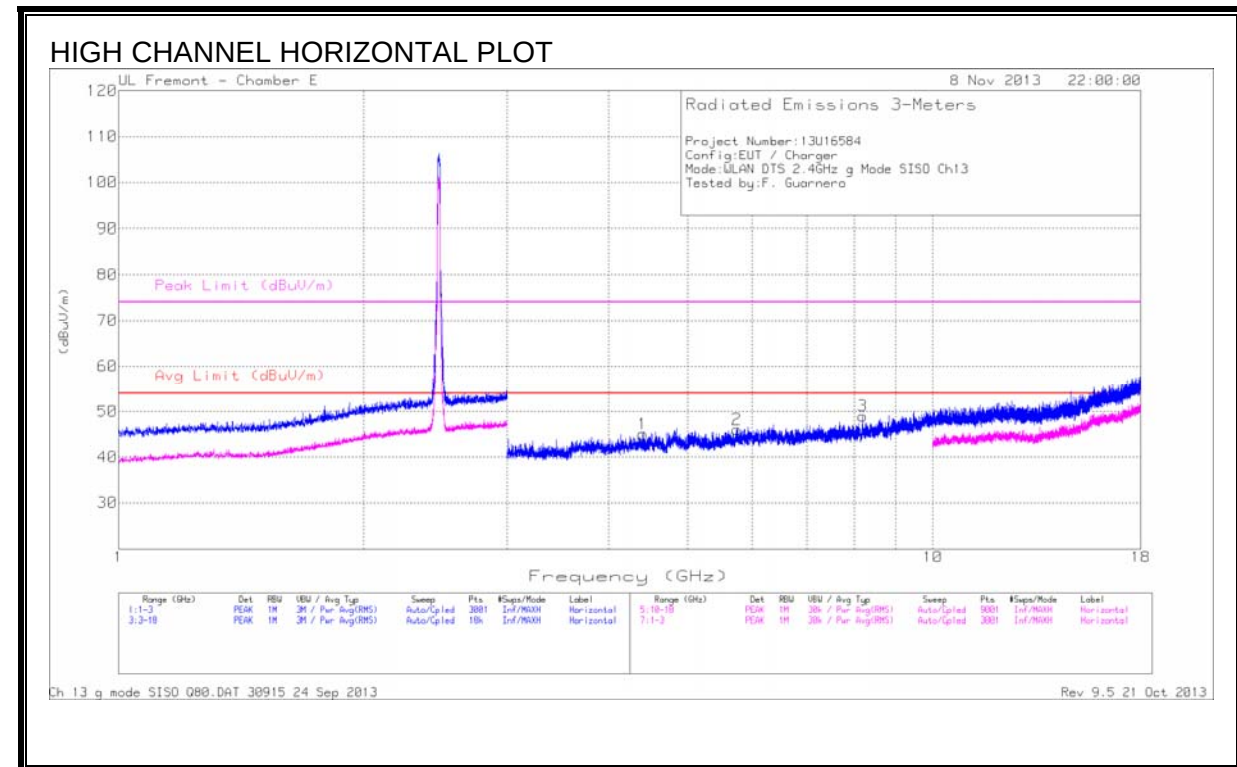
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*3.777	40.20	PK	33.8	-29.0	45.00	54	-9.00	74.0	-29.00	0-360	100	H
2	5.647	38.46	PK	35.1	-27.4	46.16	-	-	-	-	0-360	100	H
3	*7.363	37.96	PK	35.9	-25.9	47.96	54	-6.04	74.0	-26.04	0-360	100	H
4	*4.843	38.73	PK	34.4	-27.1	46.03	54	-7.97	74.0	-27.97	0-360	201	V
5	6.843	37.62	PK	35.8	-26.3	47.12	-	-	-	-	0-360	201	V
6	*7.407	38.53	PK	35.9	-25.7	48.73	-	-	74.0	-25.27	0-360	201	V
	*7.407	27.53	MAv1	35.9	-25.7	37.73	54	-16.27	-	-	252	191	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

MAv1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS CH13



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*4.405	39.62	PK	34.1	-28.7	45.02	54	-8.98	74.0	-28.98	0-360	100	H
2	5.745	37.93	PK	35.3	-27.2	46.03	-	-	-	-	0-360	100	H
3	*8.200	38.00	PK	36.0	-25.0	49.00	-	-	74.0	-25.00	0-360	200	H
	*8.200	26.38	MAv1	36.0	-25.1	37.28	54	-16.72	-	-	94	309	H
4	2.510	52.76	PK	32.4	-20.9	64.26	-	-	-	-	0-360	201	V
5	6.256	38.02	PK	36.0	-26.6	47.42	-	-	-	-	0-360	200	V
6	9.890	36.56	PK	37.7	-22.1	52.16	-	-	-	-	0-360	200	V

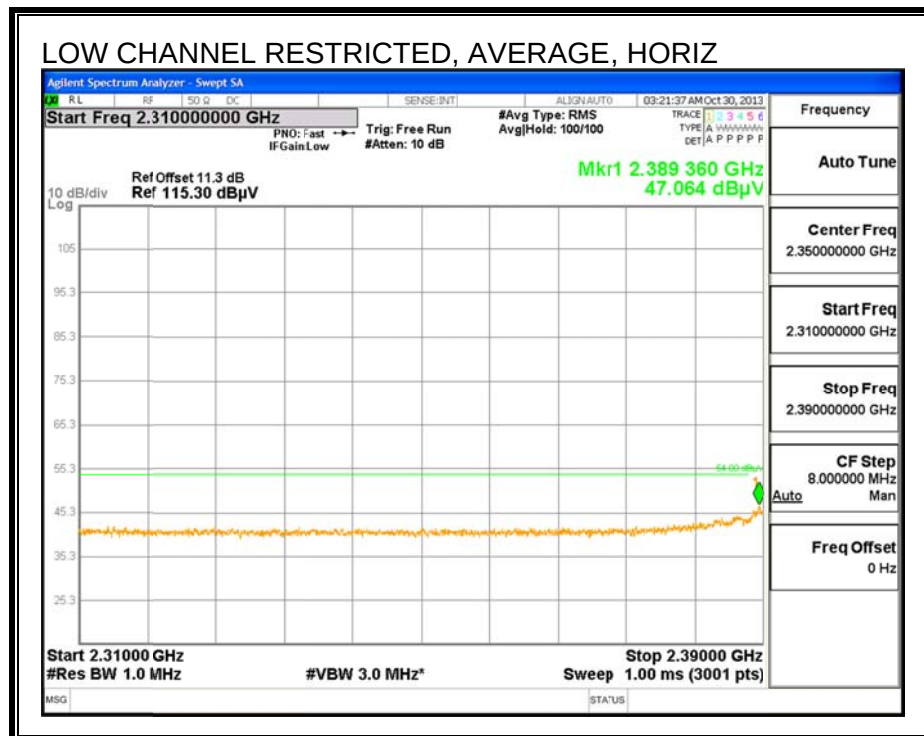
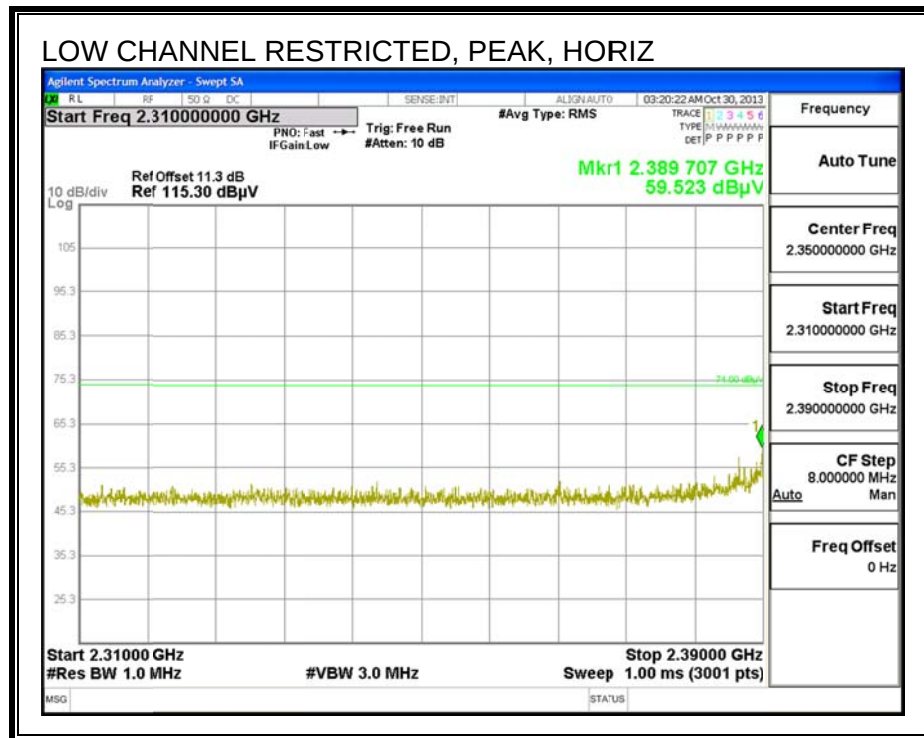
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

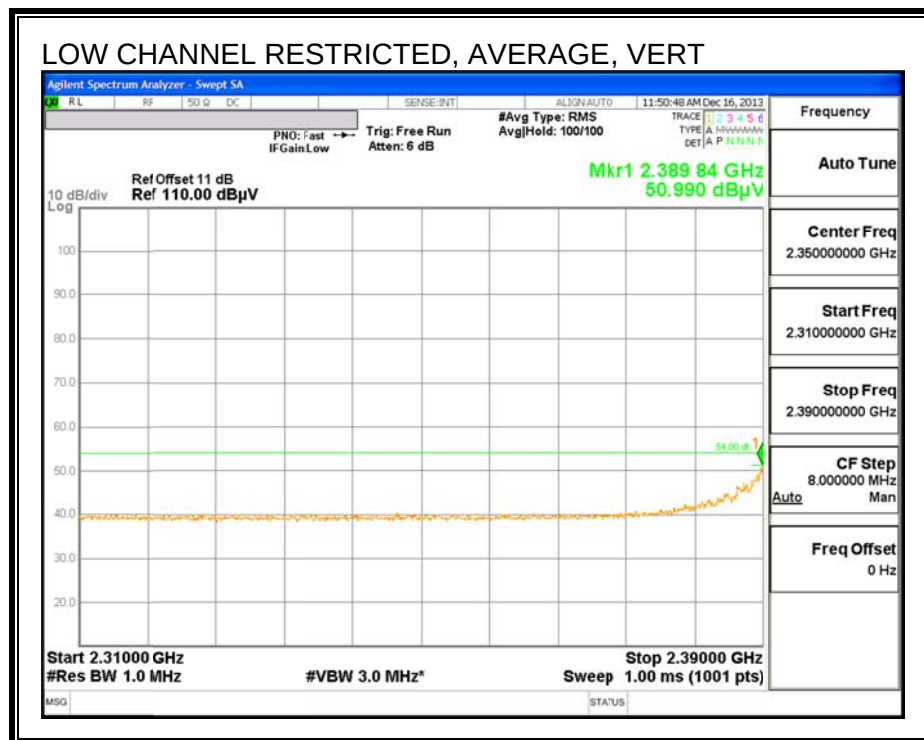
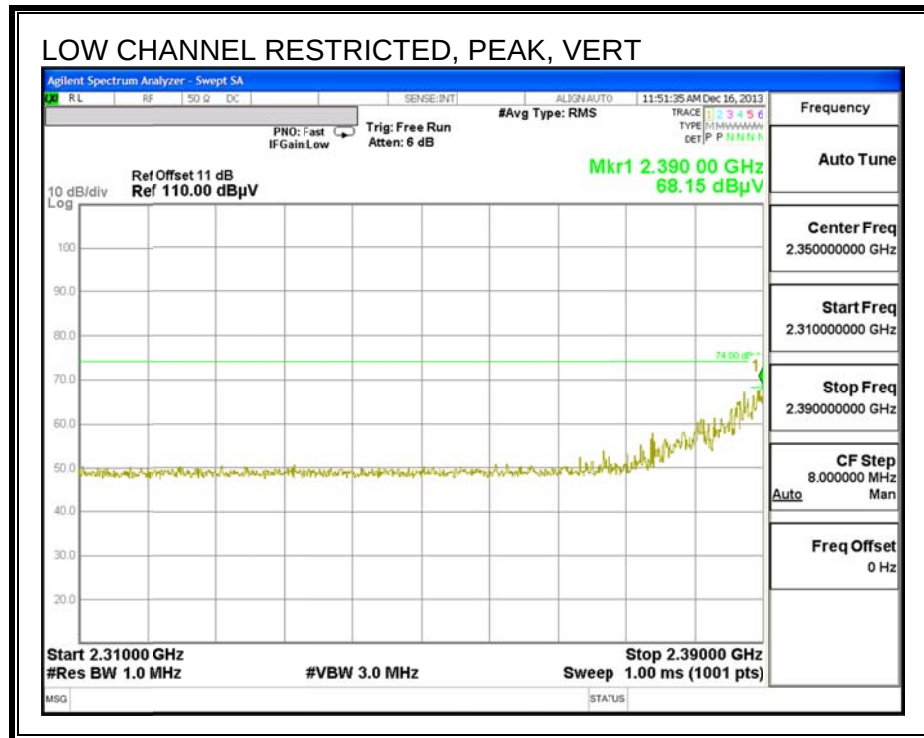
PK - Peak detector

MAv1 - KDB558074 Option 1 Maximum RMS Average

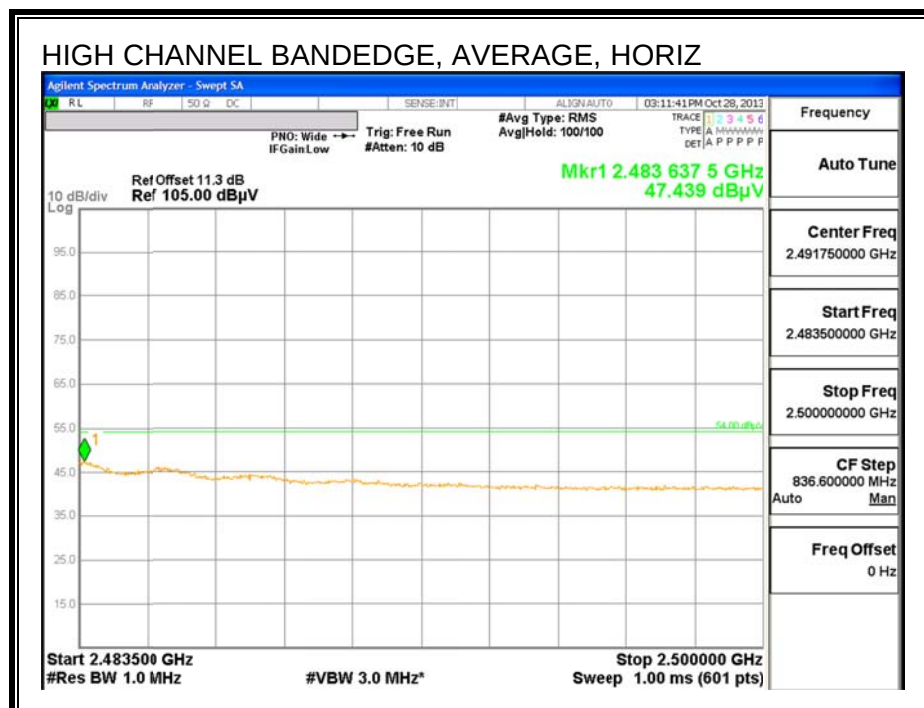
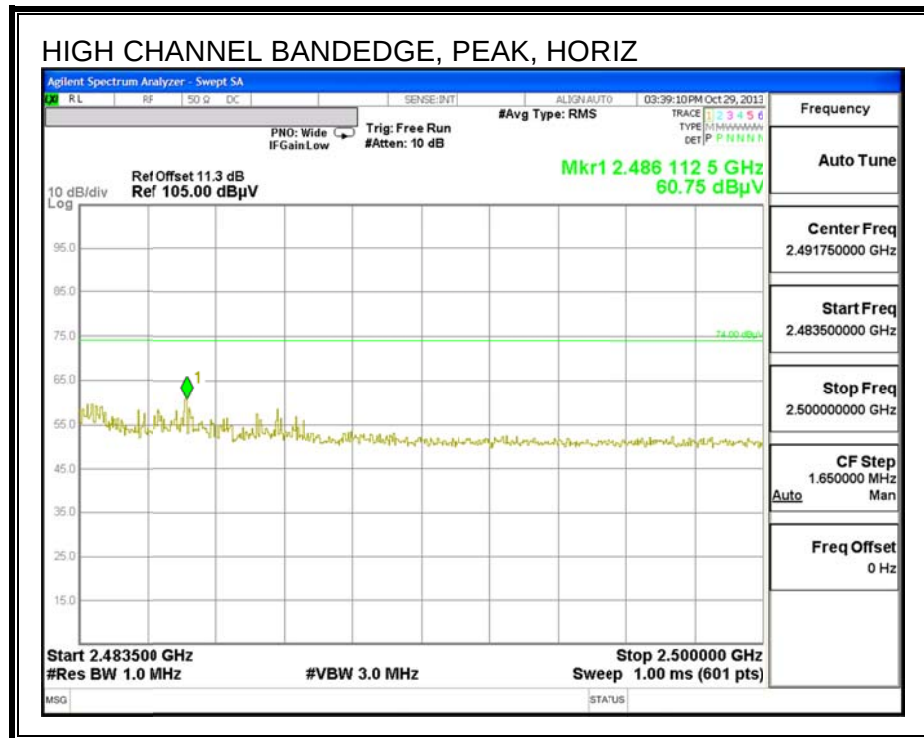
9.2.3. 802.11n HT20 MIMO MODE IN THE 2.4 GHz BAND

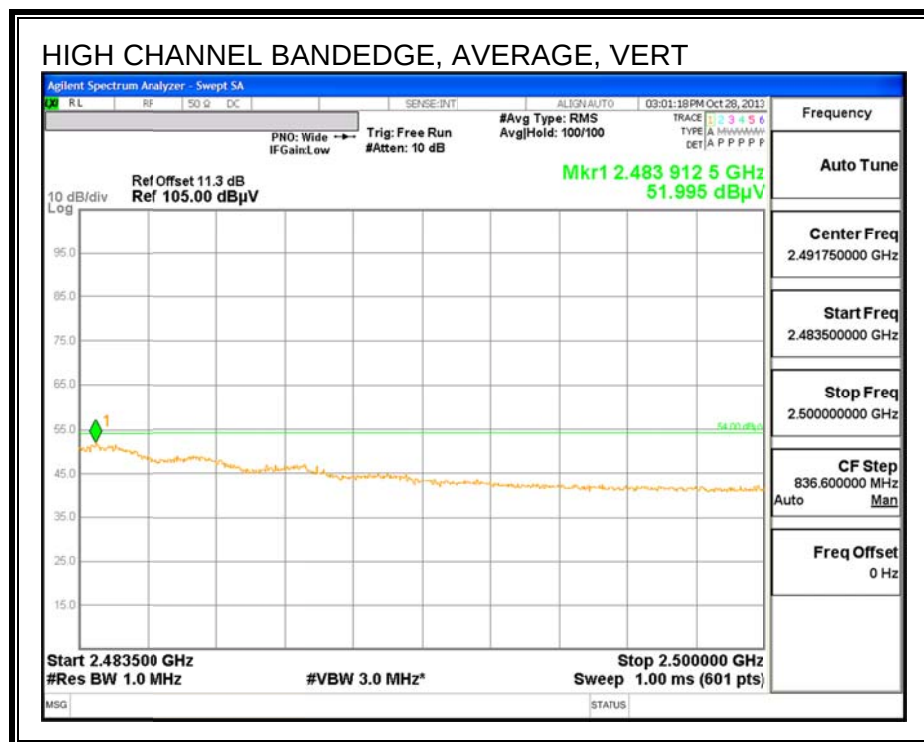
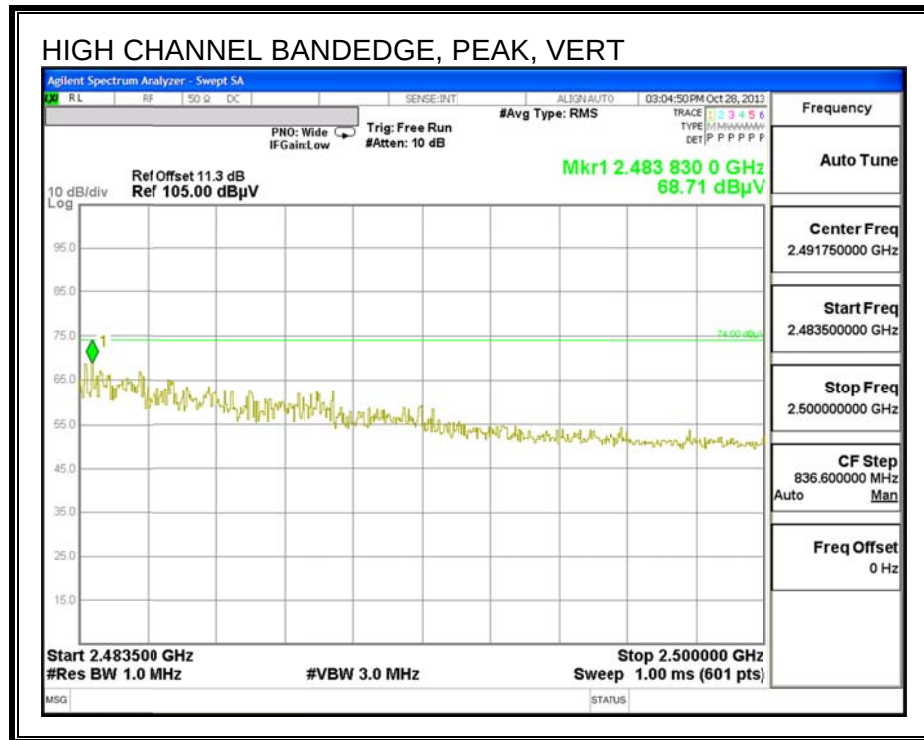
RESTRICTED BANDEDGE (LOW CHANNEL) CH1



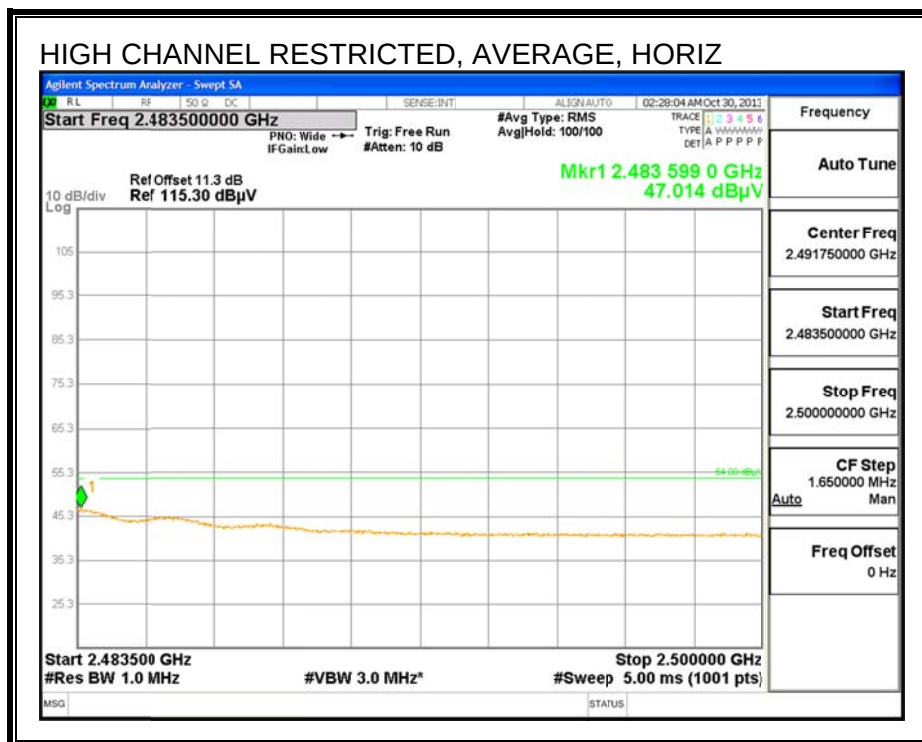
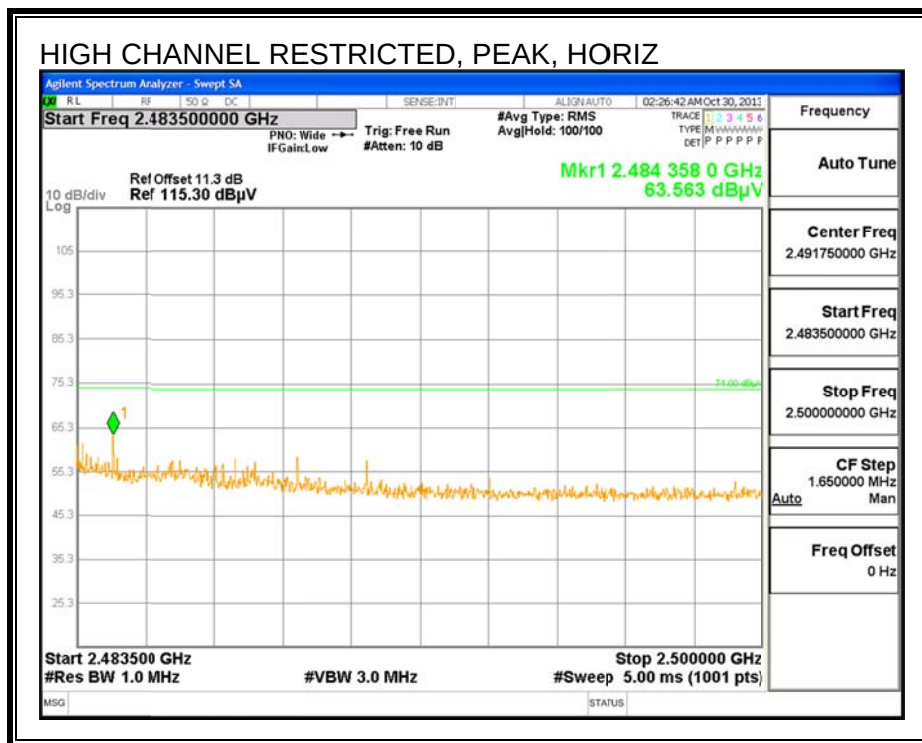


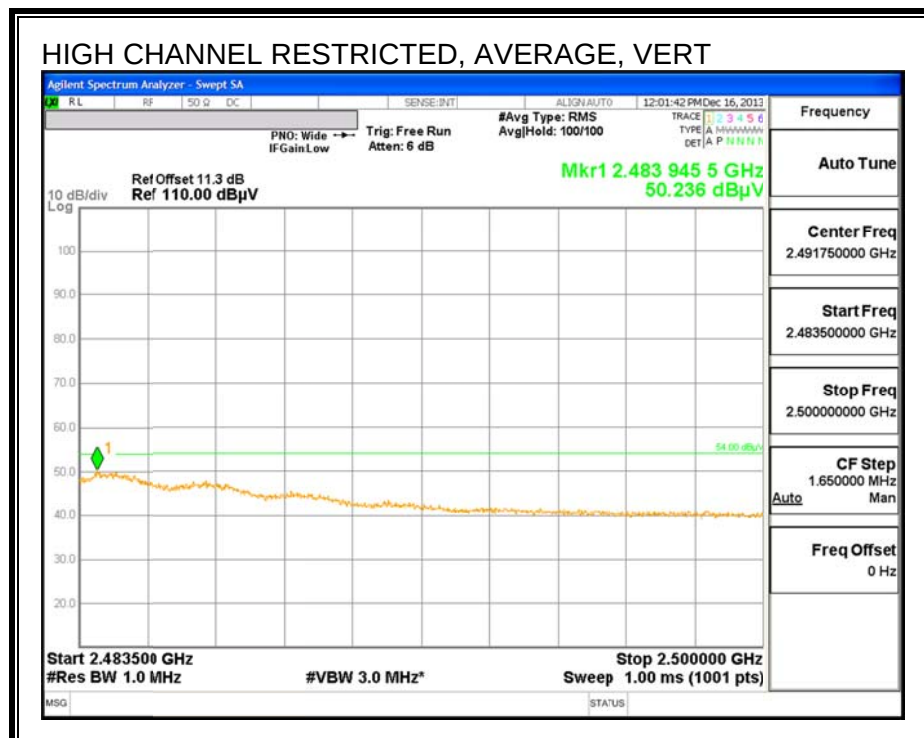
RESTRICTED BANDEDGE (HIGH CHANNEL) CH11



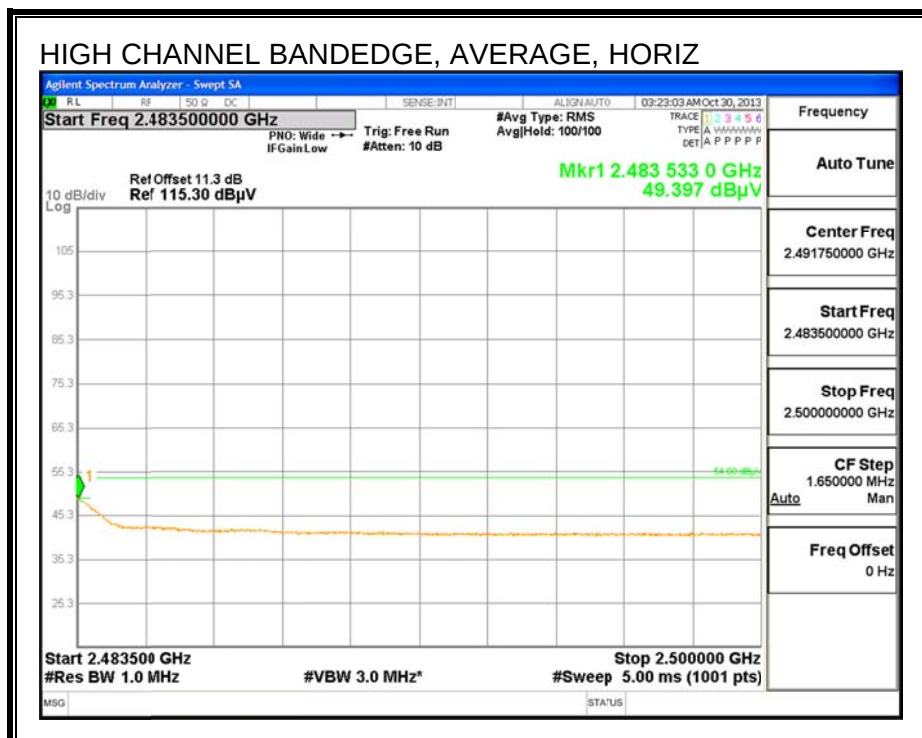
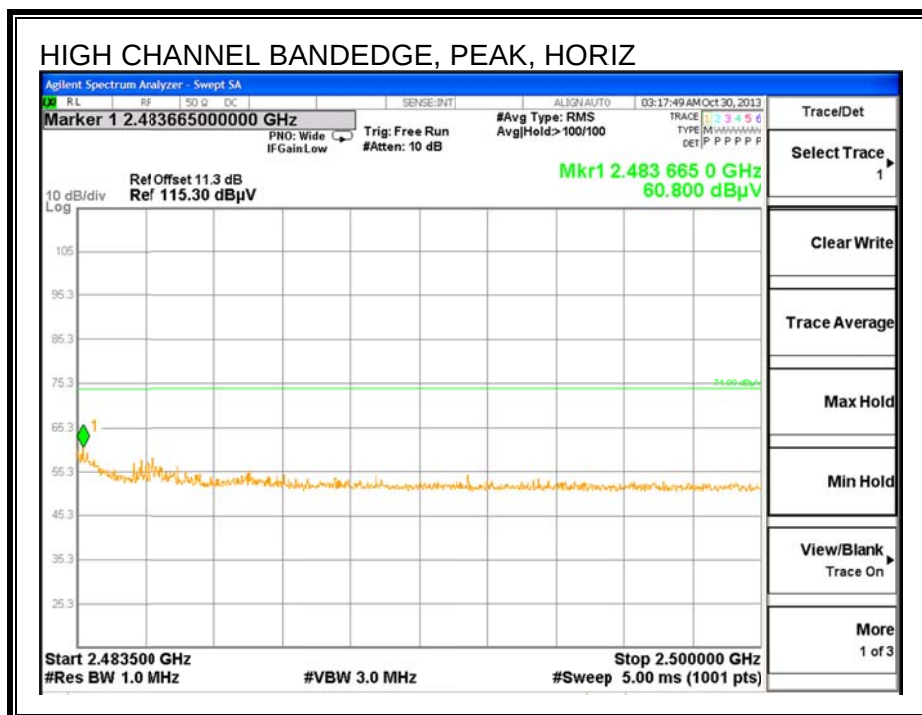


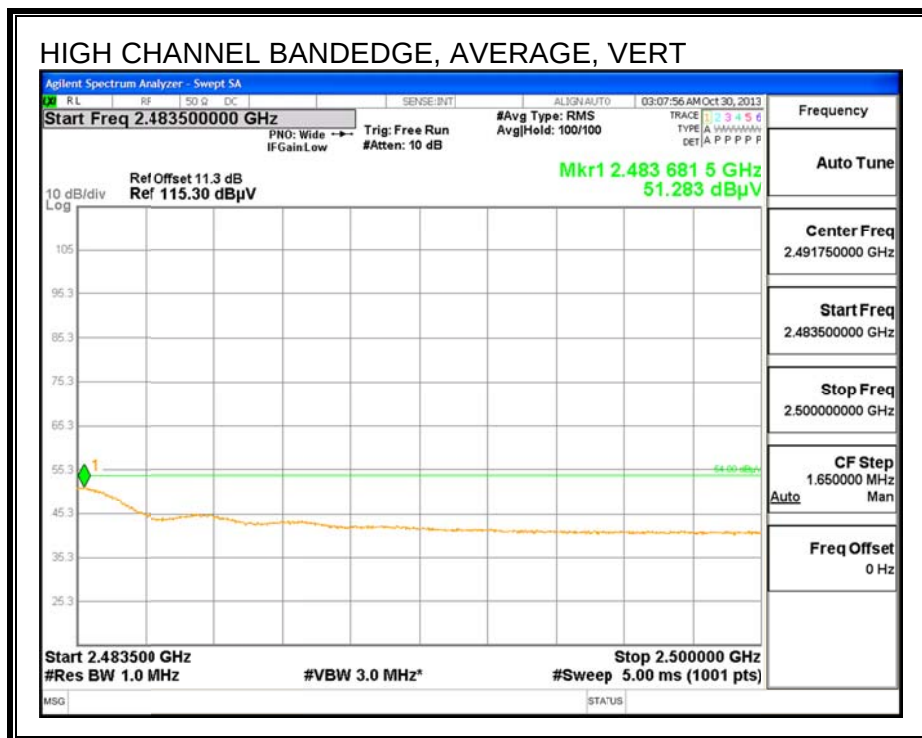
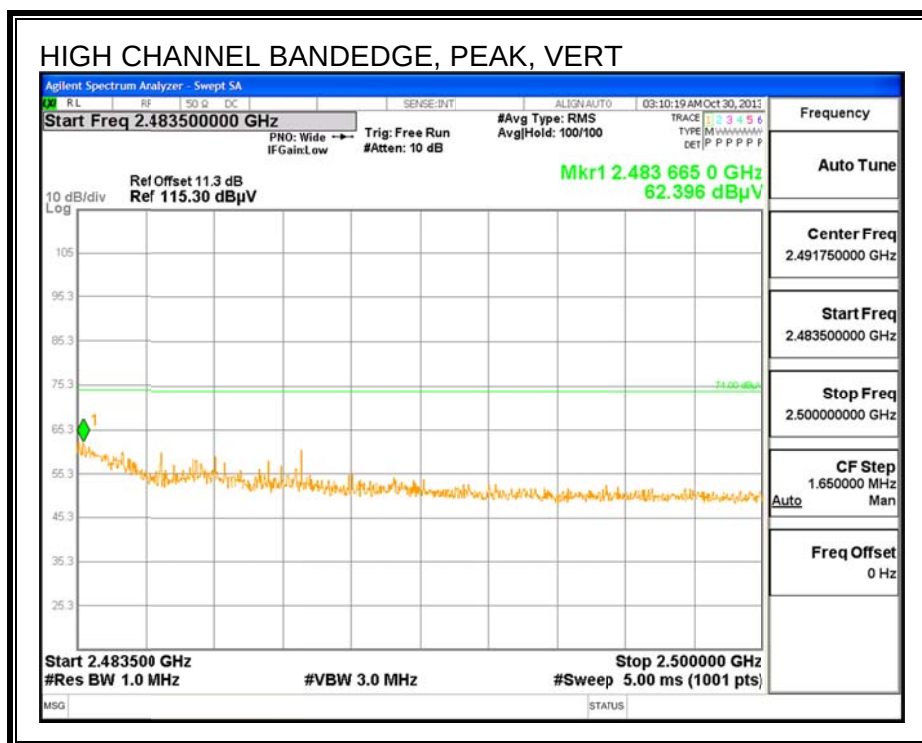
RESTRICTED BANDEDGE (HIGH CHANNEL) CH12



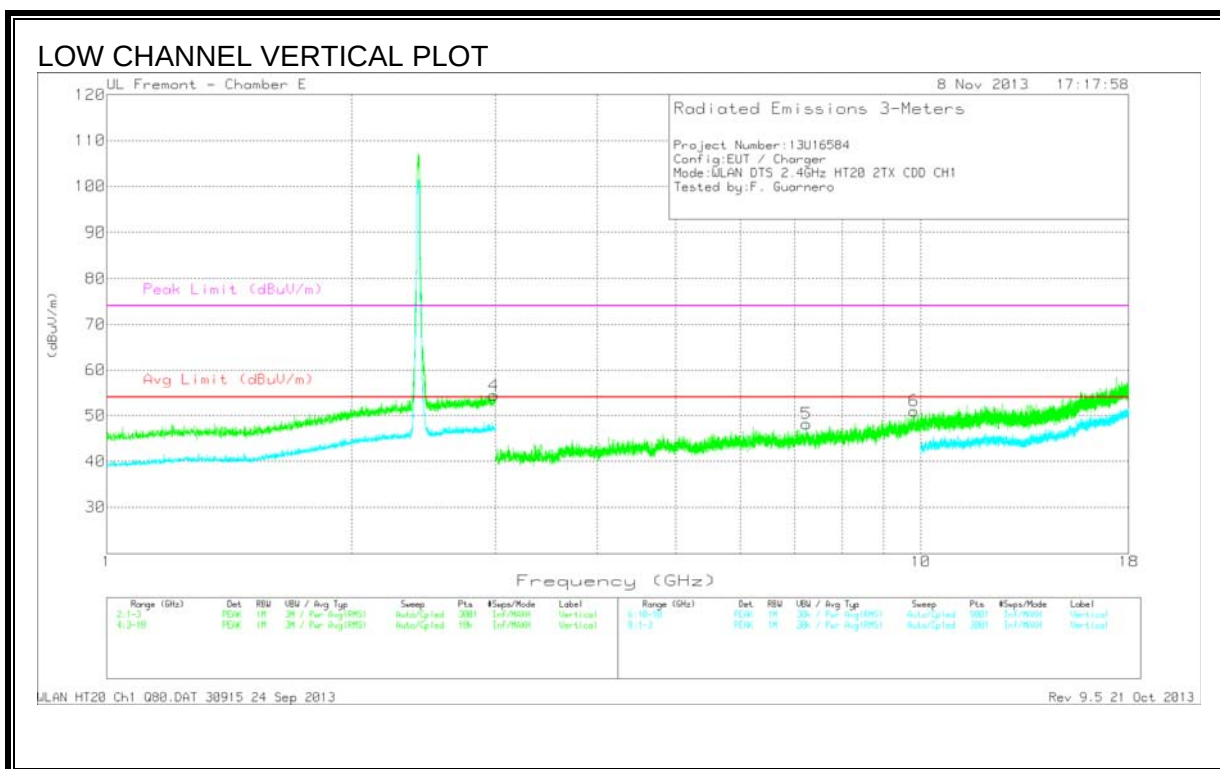
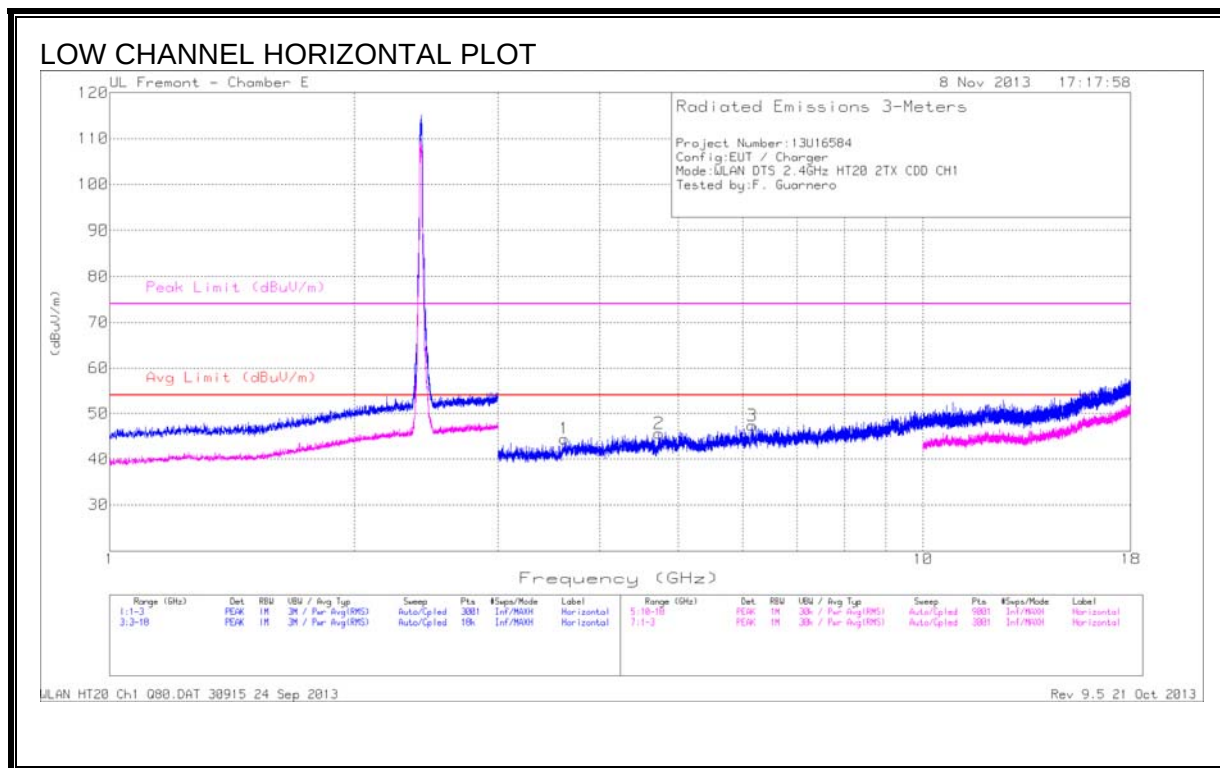


RESTRICTED BANDEDGE (HIGH CHANNEL) CH13





HARMONICS AND SPURIOUS EMISSIONS CH1



DATA

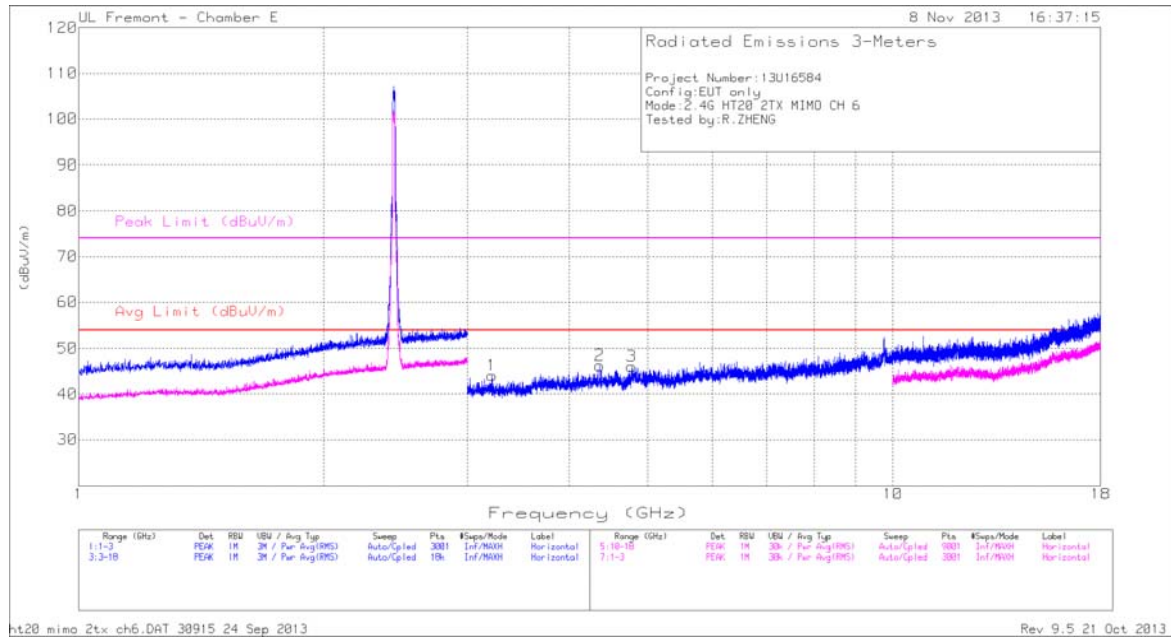
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*3.622	39.66	PK	33.5	-28.7	44.46	54	-9.54	74.0	-29.54	0-360	201	H
2	*4.734	40.02	PK	34.4	-28.8	45.62	54	-8.38	74.0	-28.38	0-360	100	H
3	6.166	38.64	PK	35.9	-27.2	47.34	-	-	-	-	0-360	201	H
4	2.989	41.60	PK	33.1	-20.3	54.40	-	-	-	-	0-360	201	V
5	7.234	37.80	PK	35.9	-25.5	48.20	-	-	-	-	0-360	100	V
6	9.805	34.89	PK	37.5	-21.4	50.99	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

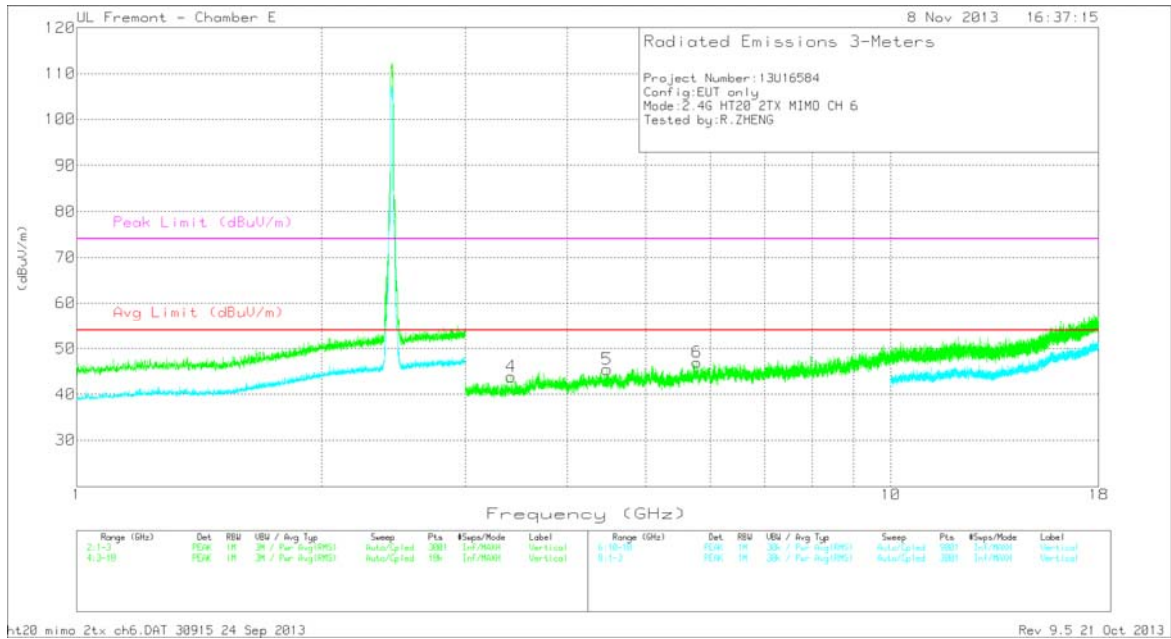
PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS CH6

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



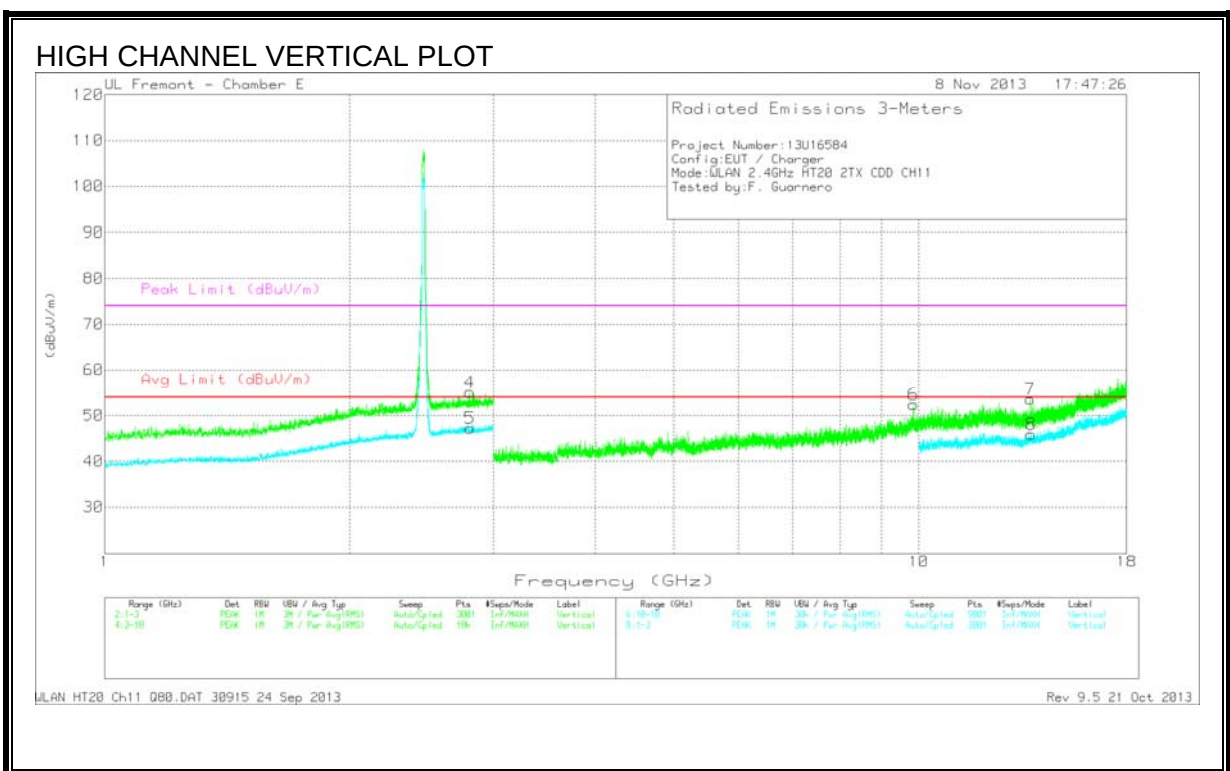
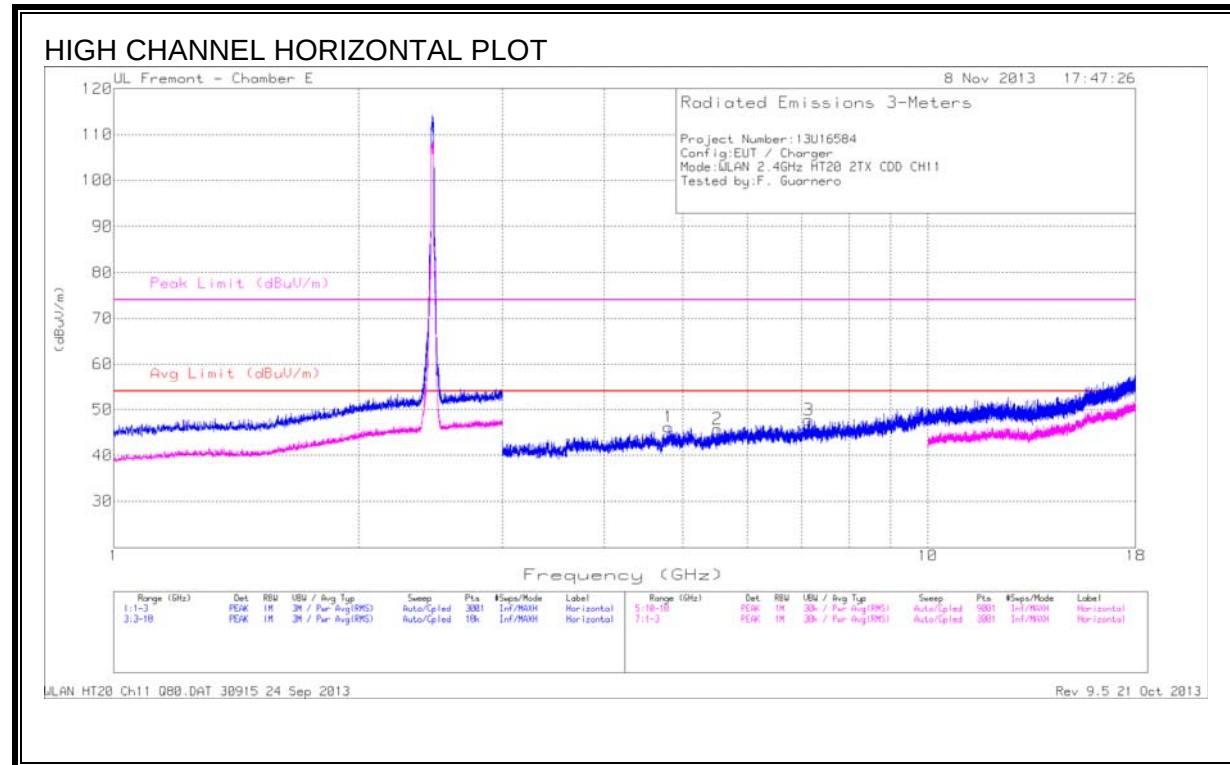
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.218	39.76	PK	33.3	-29.0	44.06	-	-	-	-	0-360	100	H
2	*4.362	40.64	PK	34.0	-28.4	46.24	54	-7.76	74.0	-27.76	0-360	100	H
3	*4.777	39.78	PK	34.4	-28.1	46.08	54	-7.92	74.0	-27.92	0-360	201	H
4	3.417	38.97	PK	33.3	-28.4	43.87	-	-	-	-	0-360	201	V
5	4.481	39.75	PK	34.2	-28.5	45.45	-	-	-	-	0-360	201	V
6	5.778	38.89	PK	35.3	-27.2	46.99	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS CH11



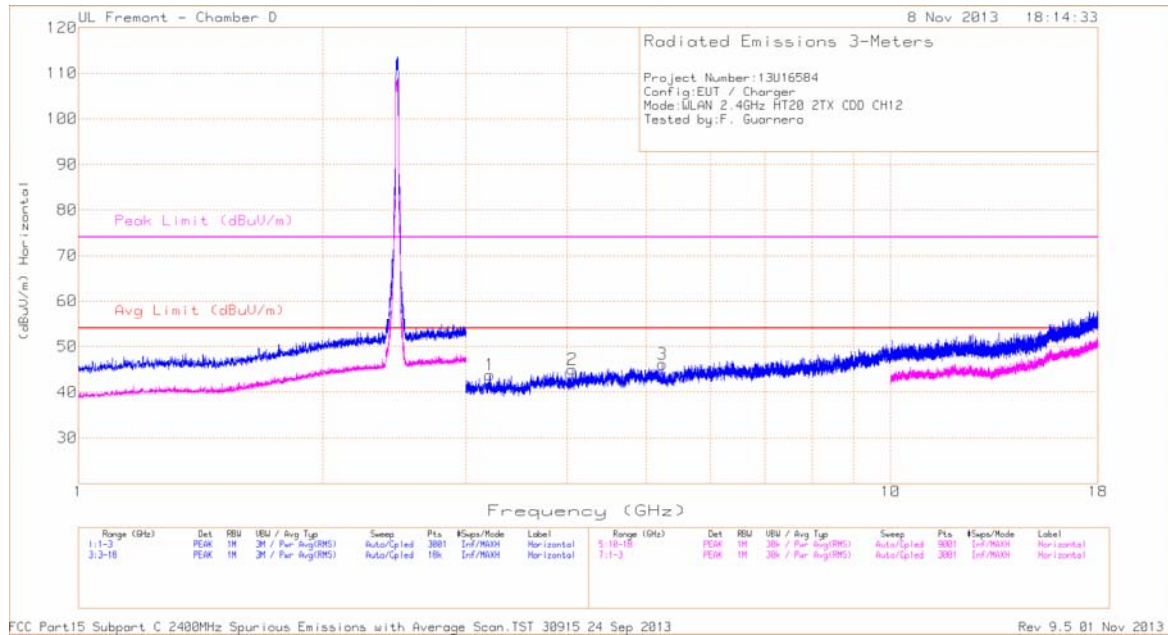
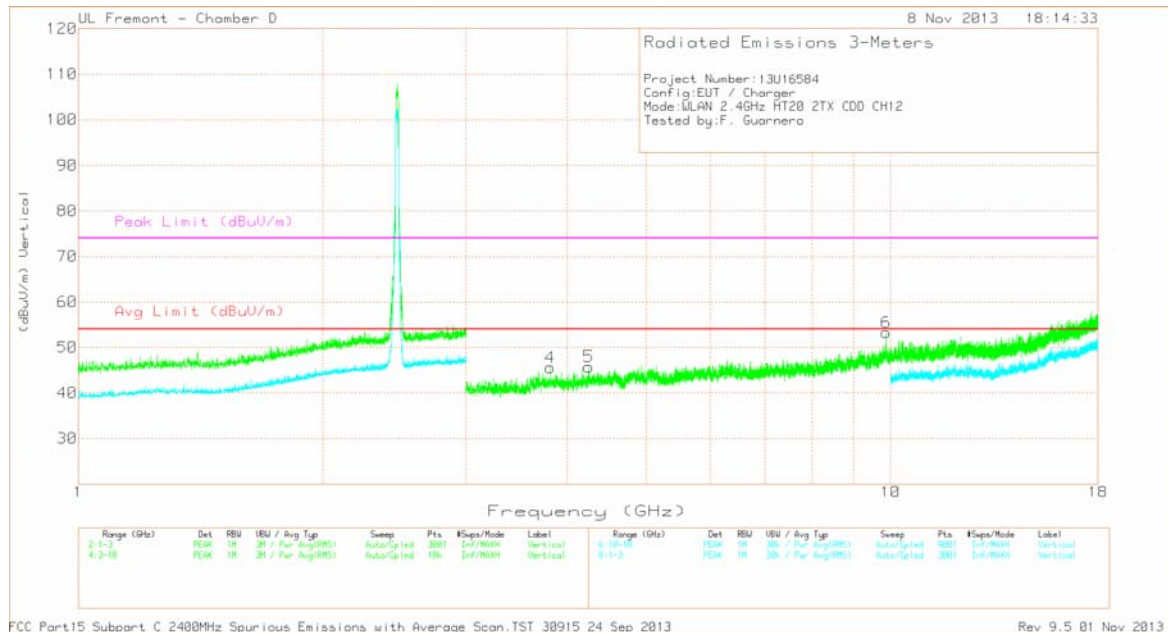
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*4.803	39.40	PK	34.4	-27.6	46.20	54	-7.80	74.0	-27.80	0-360	201	H
2	5.515	38.51	PK	34.8	-27.6	45.71	-	-	-	-	0-360	201	H
3	7.136	37.10	PK	35.9	-25.3	47.70	-	-	-	-	0-360	201	H
4	*2.809	42.92	PK	32.9	-20.7	55.12	-	-	74.0	-18.88	0-360	200	V
5	*2.809	35.01	Avg	32.9	-20.7	47.21	53.97	-6.76	-	-	0-360	100	V
6	9.852	36.69	PK	37.6	-21.9	52.39	-	-	-	-	0-360	100	V
7	13.708	38.10	PK	39.2	-23.7	53.60	-	-	-	-	0-360	201	V
8	13.708	29.87	Avg	39.2	-23.7	45.37	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HARMONICS AND SPURIOUS EMISSIONS CH12**CHANNEL 12 HORIZONTAL PLOT****CHANNEL 12 VERTICAL PLOT**

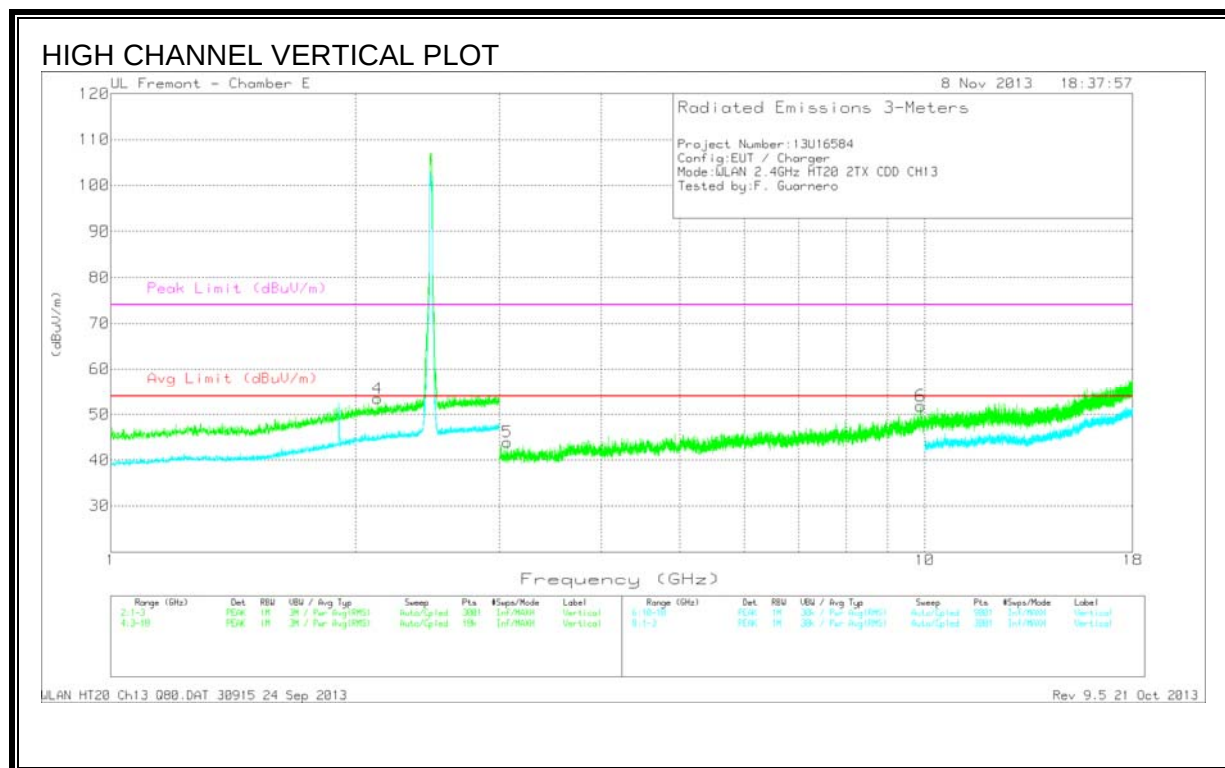
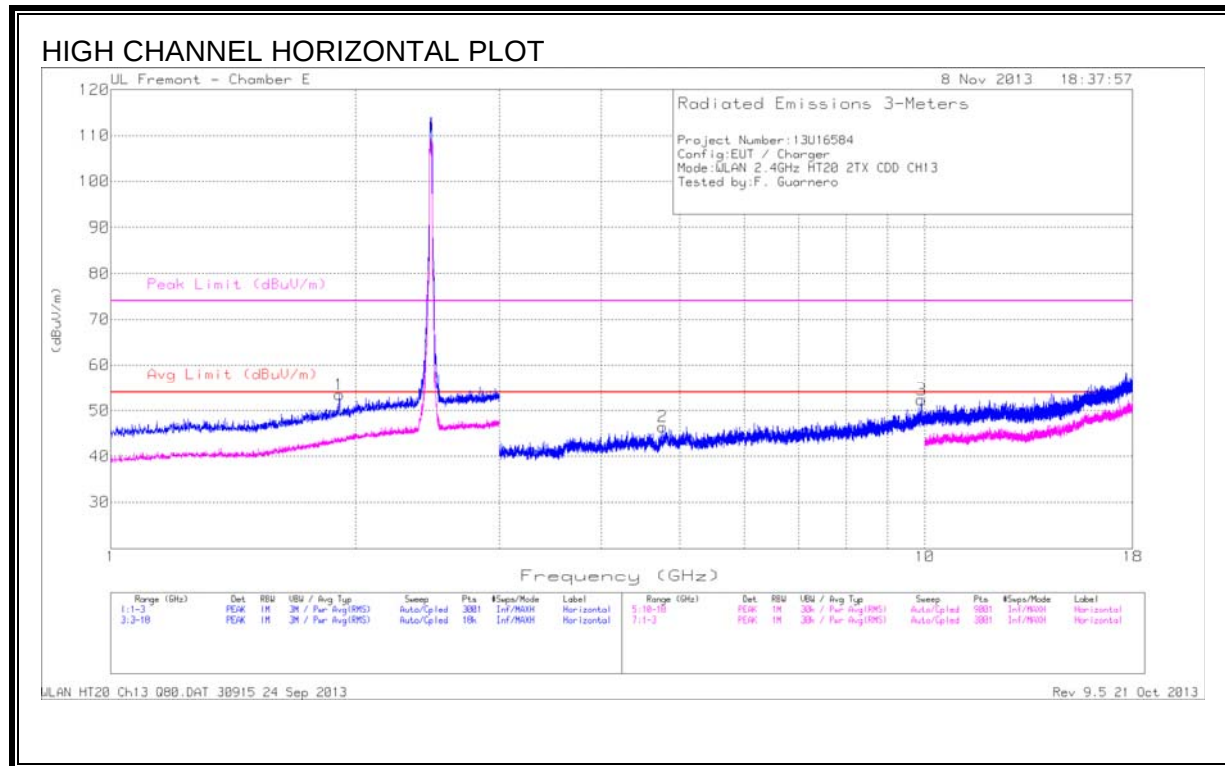
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.211	39.37	PK	33.3	-28.9	43.77	-	-	-	-	0-360	100	H
2	* 4.057	39.98	PK	33.8	-28.8	44.98	54	-9.02	74.0	-29.02	0-360	200	H
3	5.237	39.32	PK	34.7	-27.9	46.12	-	-	-	-	0-360	200	H
4	* 3.809	40.86	PK	33.8	-29.1	45.56	54	-8.44	74.0	-28.44	0-360	100	V
5	* 4.250	39.80	PK	33.9	-28.0	45.70	54	-8.30	74.0	-28.30	0-360	100	V
6	9.875	37.37	PK	37.6	-21.7	53.27	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

HARMONICS AND SPURIOUS EMISSIONS CH13



DATA

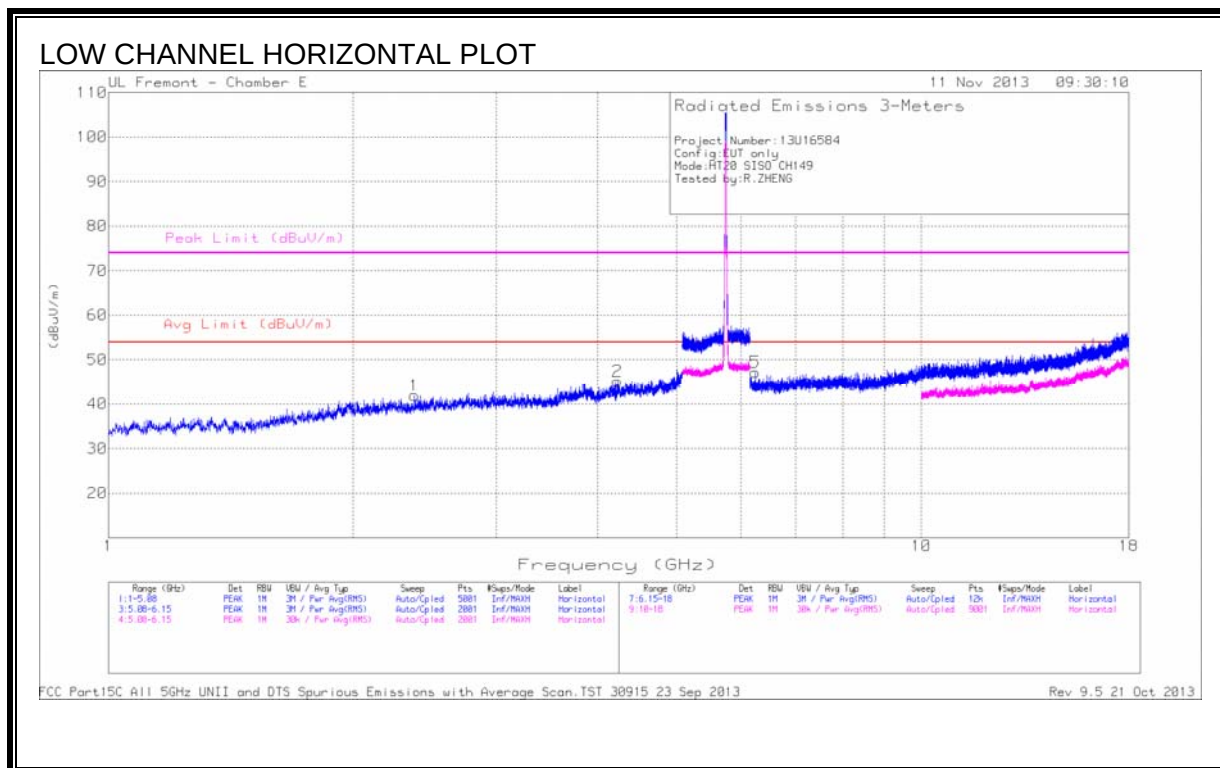
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.909	44.15	PK	31.1	-21.8	53.45	-	-	-	-	0-360	201	H
2	*4.762	40.56	PK	34.4	-28.5	46.46	54	-7.54	74.0	-27.54	0-360	201	H
3	9.900	36.86	PK	37.7	-22.2	52.36	-	-	-	-	0-360	100	H
4	2.127	42.78	PK	32.1	-21.4	53.48	-	-	-	-	0-360	201	V
5	3.070	40.25	PK	33.2	-29.5	43.95	-	-	-	-	0-360	100	V
6	9.886	36.14	PK	37.7	-22.0	51.84	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

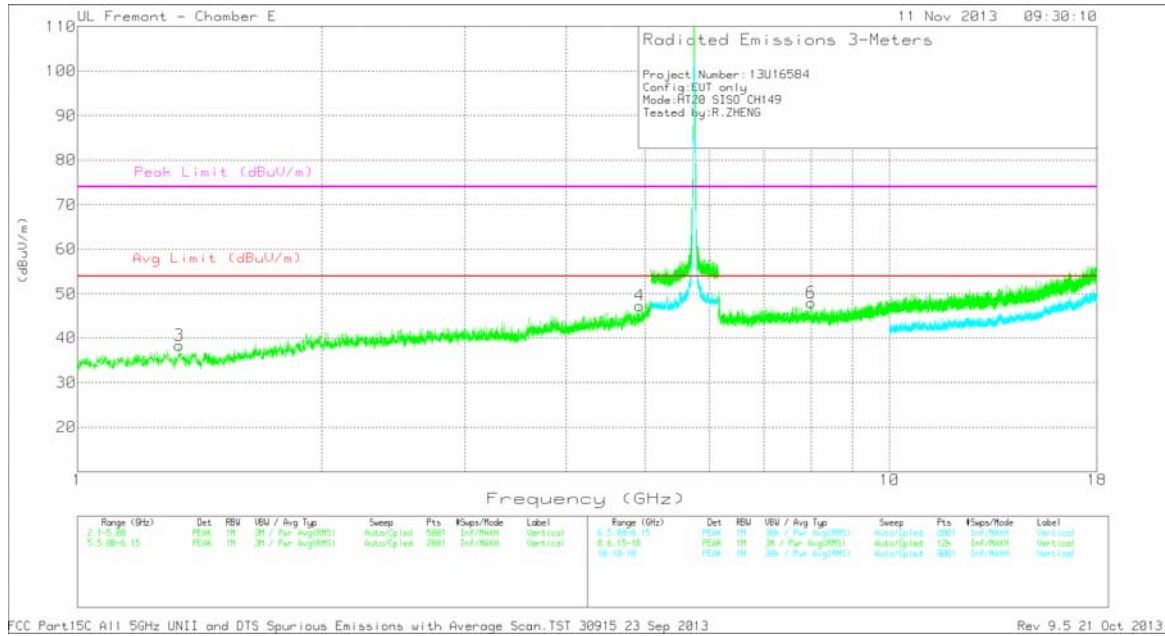
PK - Peak detector

9.2.4. 802.11n HT20 1TX MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS



LOW CHANNEL VERTICAL PLOT



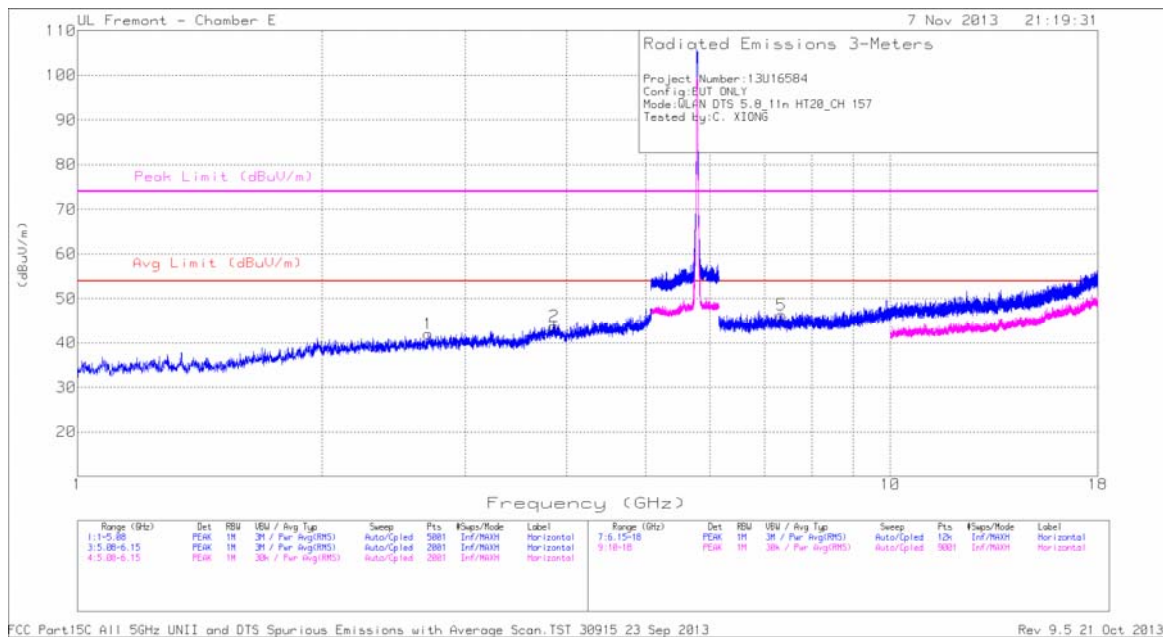
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.380	42.93	PK	32.6	-33.6	41.93	54	-12.07	74.0	-32.07	0-360	199	H
2	* 4.229	42.66	PK	34.0	-31.5	45.16	54	-8.84	74.0	-28.84	0-360	199	H
3	* 1.335	43.51	PK	29.1	-34.3	38.31	54	-15.69	74.0	-35.69	0-360	199	V
4	* 4.924	42.95	PK	34.4	-30.0	47.35	54	-6.65	74.0	-26.65	0-360	199	V
5	6.246	40.89	PK	35.9	-29.6	47.19	-	-	-	-	0-360	199	H
6	8.006	39.82	PK	36.2	-28.0	48.02	-	-	-	-	0-360	199	V

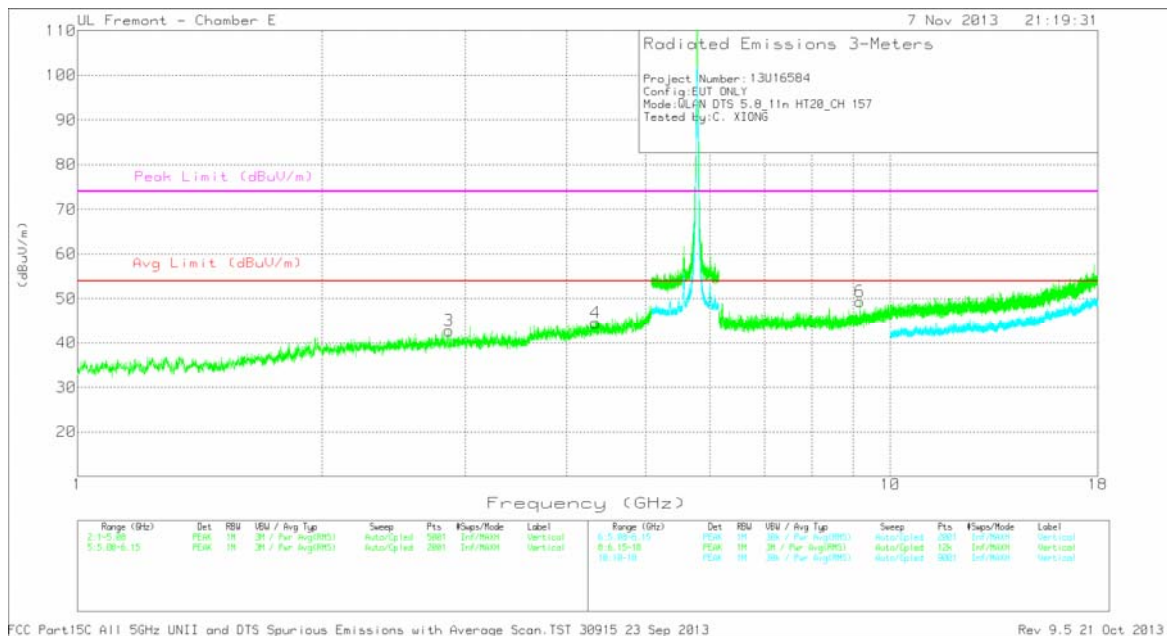
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

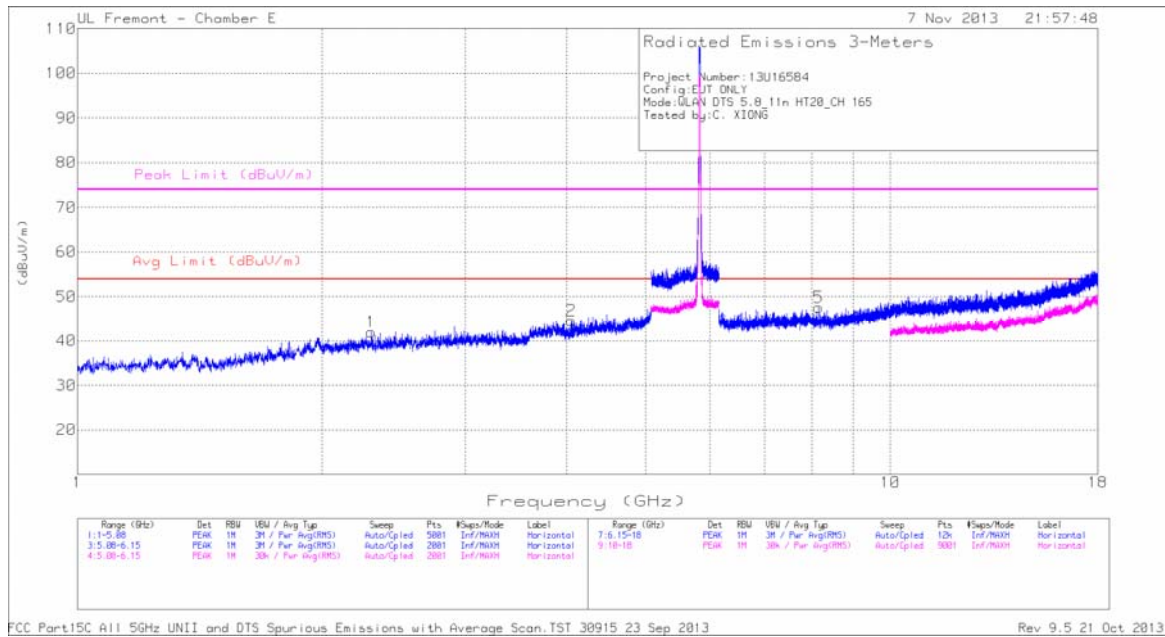
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.701	41.55	PK	33.1	-32.6	42.05	54	-11.95	74.0	-31.95	0-360	199	H
2	* 3.860	41.00	PK	33.7	-30.9	43.80	54	-10.20	74.0	-30.20	0-360	100	H
3	* 2.864	42.66	PK	33.2	-33.1	42.76	54	-11.24	74.0	-31.24	0-360	200	V
4	* 4.339	41.43	PK	34.1	-31.0	44.53	54	-9.47	74.0	-29.47	0-360	100	V
5	* 7.348	37.92	PK	36.0	-27.6	46.32	54	-7.68	74.0	-27.68	0-360	101	H
6	* 9.173	38.84	PK	37.0	-26.5	49.34	-	-	74.0	-24.66	0-360	100	V
	* 9.173	27.07	MAv1	37.0	-26.5	37.57	54	-16.43	-	-	228	232	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

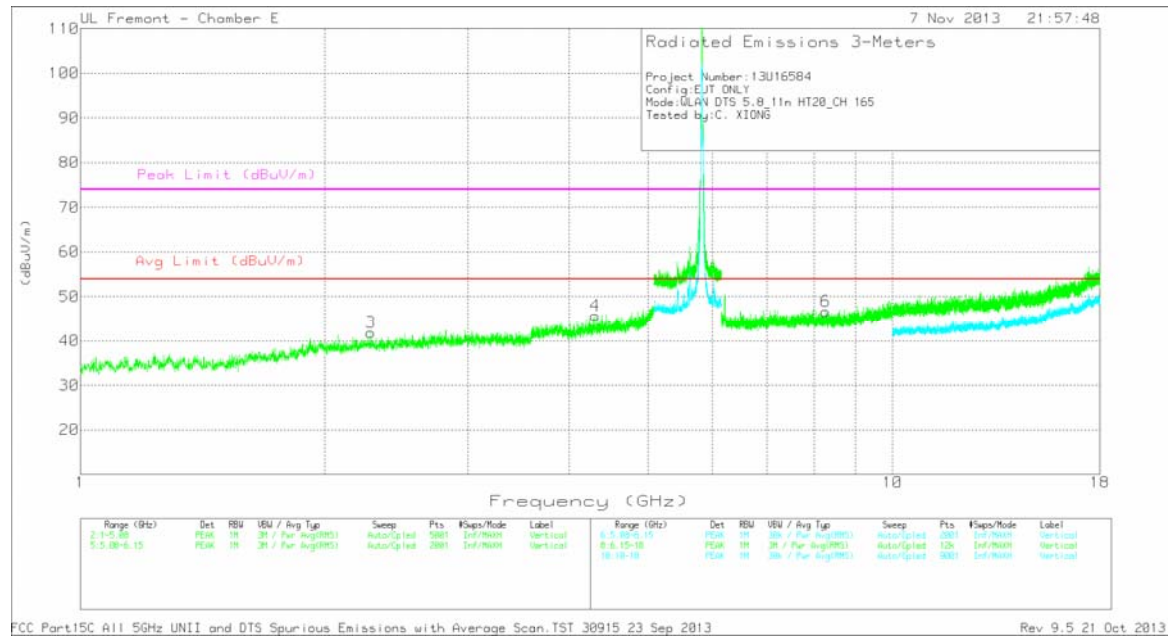
MAv1 - KDB558074 Option 1 Maximum RMS Average

PK - Peak detector

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.297	42.64	PK	32.5	-33.1	42.04	54	-11.96	74.0	-31.96	0-360	101	H
2	* 4.049	42.38	PK	33.8	-31.6	44.58	54	-9.42	74.0	-29.42	0-360	101	H
3	* 2.279	42.40	PK	32.4	-32.9	41.90	54	-12.10	74.0	-32.10	0-360	200	V
4	* 4.304	42.69	PK	34.1	-31.1	45.69	54	-8.31	74.0	-28.31	0-360	100	V
5	* 8.163	39.47	PK	36.2	-28.1	47.57	54	-6.43	74.0	-26.43	0-360	199	H
6	* 8.276	37.97	PK	36.2	-27.5	46.67	54	-7.33	74.0	-27.33	0-360	199	V

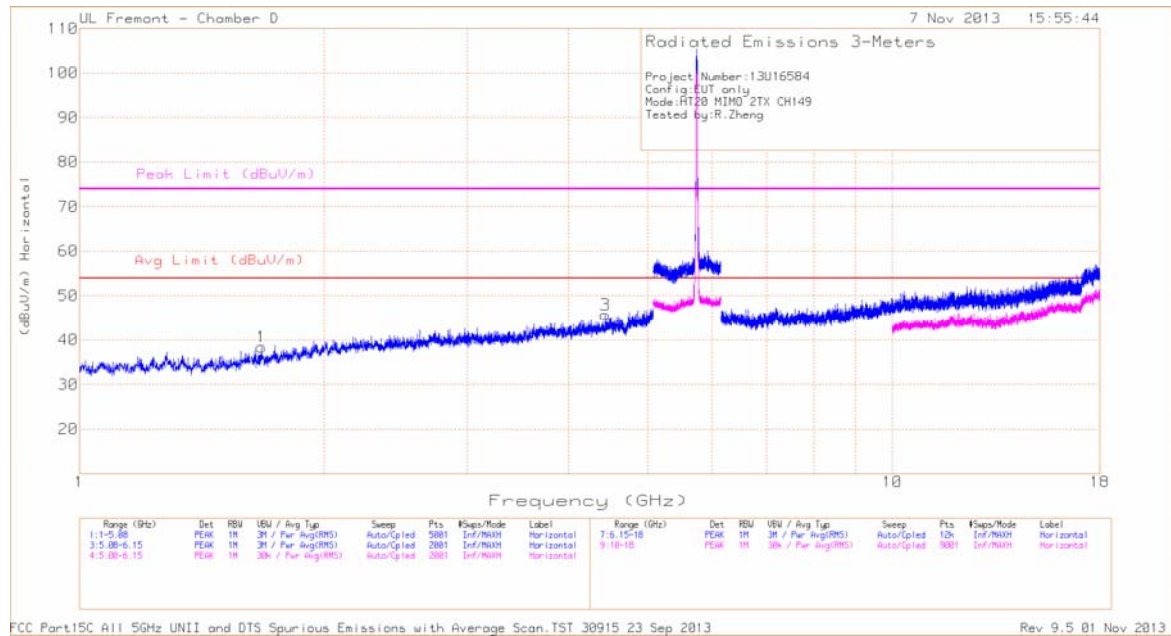
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

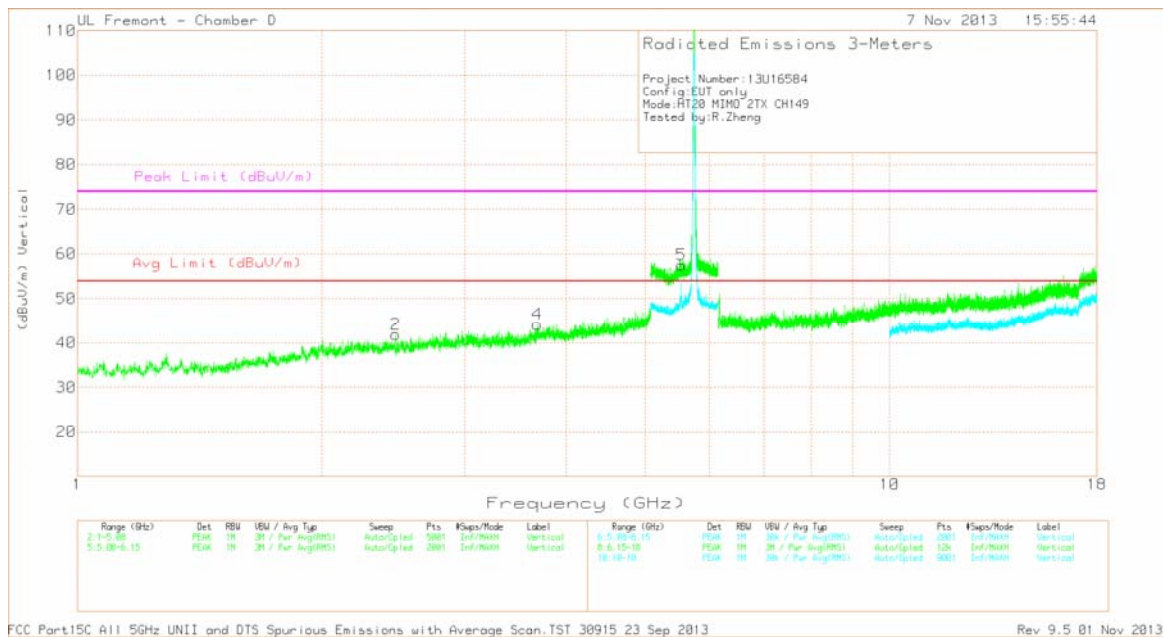
9.2.5. 802.11n HT20 2TX CDD MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



DATA

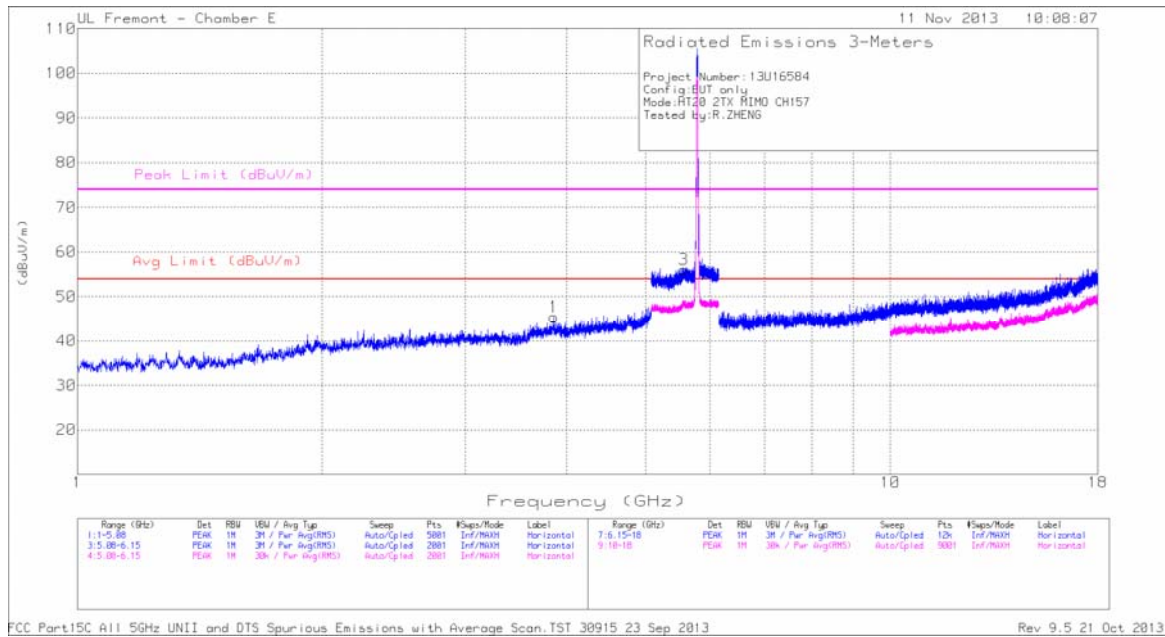
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl /Filtr/Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.674	40.29	PK	29.5	-31.4	38.39	54	-15.61	74.0	-35.61	0-360	100	H
3	4.435	39.69	PK	34.1	-28.1	45.69	-	-	-	-	0-360	100	H
2	2.466	40.03	PK	32.4	-30.5	41.93	-	-	-	-	0-360	201	V
4	* 3.685	39.43	PK	33.7	-28.9	44.23	54	-9.77	74.0	-29.77	0-360	100	V
5	5.541	40.67	PK	34.9	-18.0	57.57	-	-	-	-	0-360	100	V
6	5.532	36.66	Avg	34.9	-18.1	53.46	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

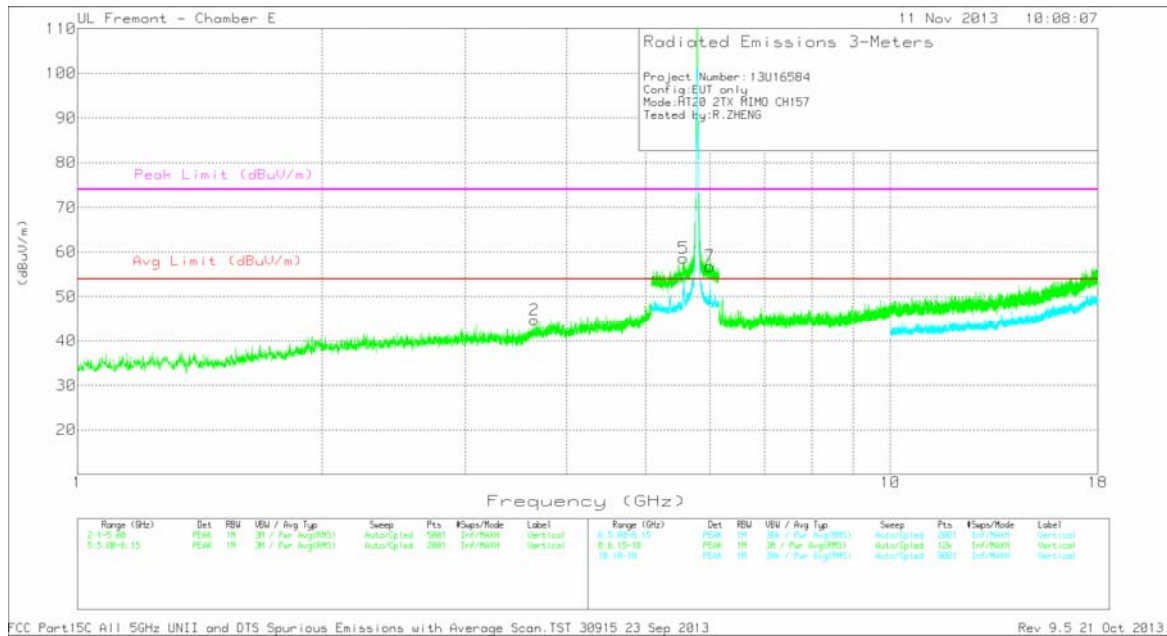
PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



DATA

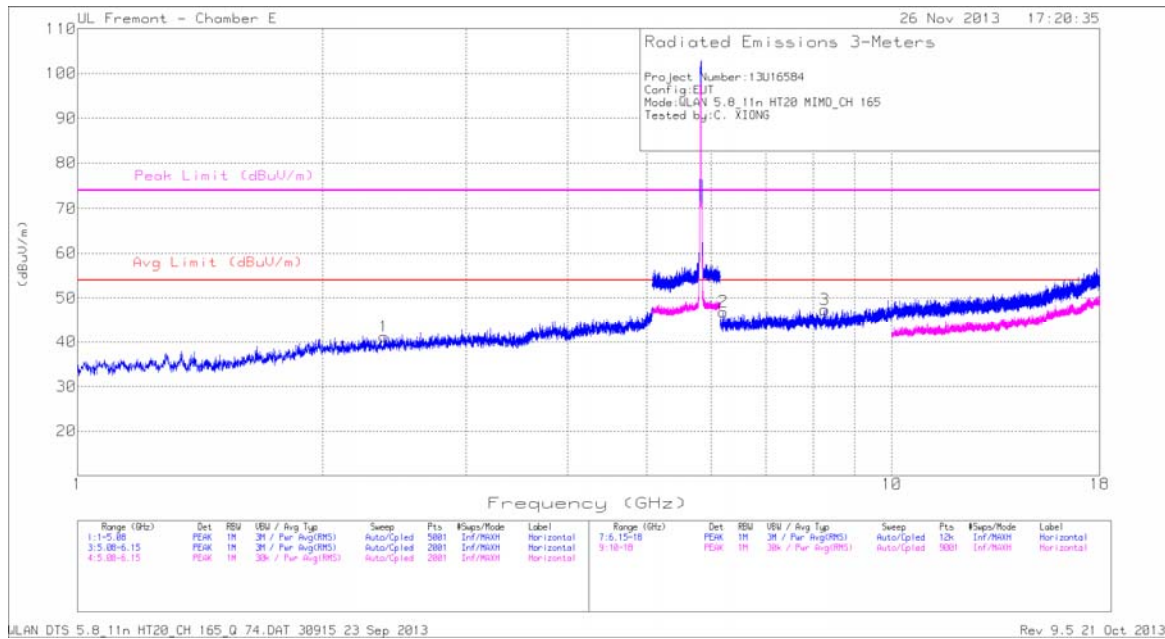
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.858	42.63	PK	33.7	-30.9	45.43	54	-8.57	74.0	-28.57	0-360	199	H
2	* 3.650	42.56	PK	33.5	-31.3	44.76	54	-9.24	74.0	-29.24	0-360	200	V
3	5.570	42.06	PK	35.0	-21.0	56.06	-	-	-	-	0-360	100	H
4	5.570	35.00	Avg	35.0	-21.0	49.00	-	-	-	-	0-360	199	H
5	5.566	44.50	PK	35.0	-20.9	58.60	-	-	-	-	0-360	199	V
6	5.565	40.59	Avg	35.0	-20.9	54.69	-	-	-	-	0-360	100	V
7	5.999	41.39	PK	35.8	-20.4	56.79	-	-	-	-	0-360	199	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

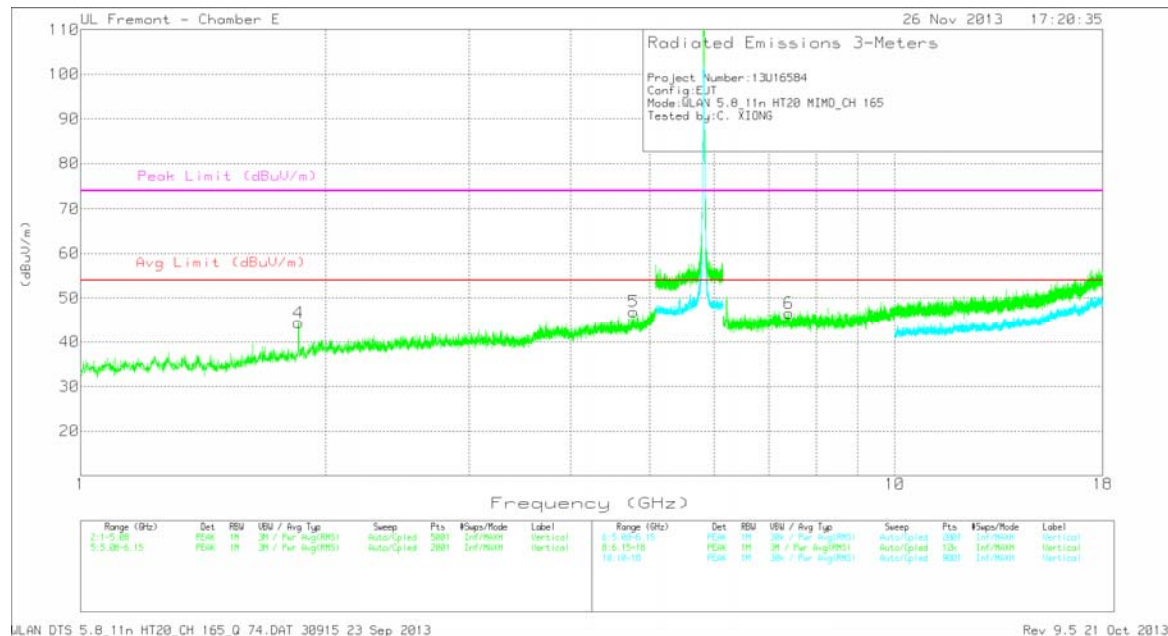
PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.380	42.23	PK	32.6	-33.6	41.23	54	-12.77	74.0	-32.77	0-360	199	H
2	6.208	40.59	PK	35.9	-29.6	46.89	-	-	-	-	0-360	199	H
3	* 8.271	38.58	PK	36.2	-27.4	47.38	54	-6.62	74.0	-26.62	0-360	199	H
4	1.852	47.20	PK	31.2	-34.0	44.40	-	-	-	-	0-360	199	V
5	* 4.776	42.65	PK	34.4	-30.1	46.95	54	-7.05	74.0	-27.05	0-360	199	V
6	* 7.412	38.70	PK	36.1	-28.2	46.60	54	-7.40	74.0	-27.40	0-360	199	V

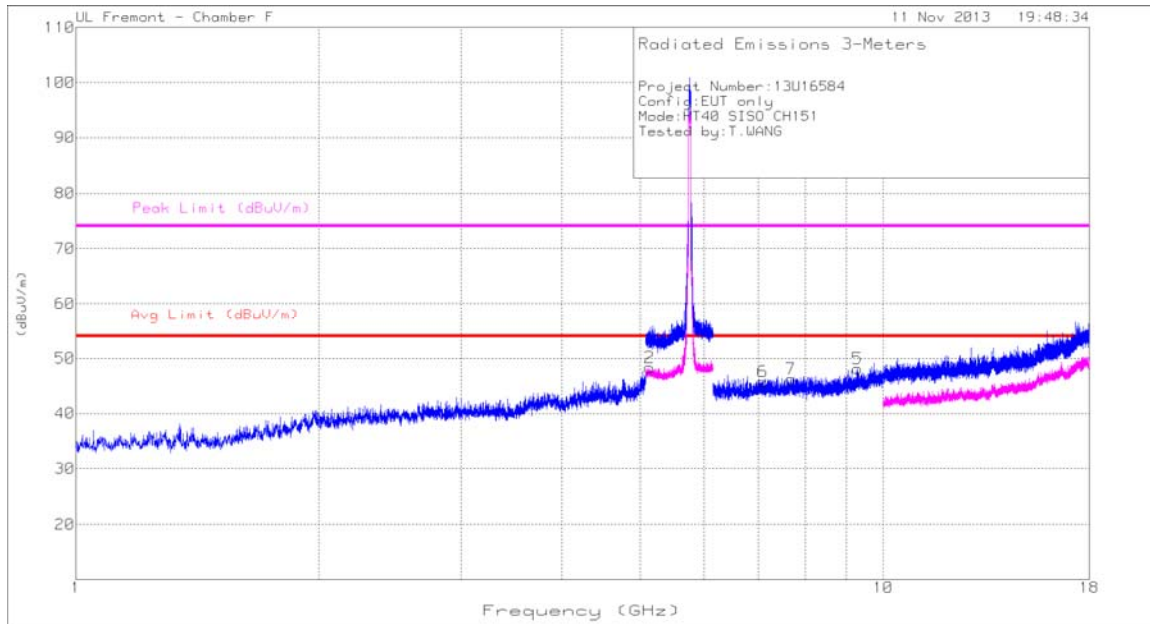
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

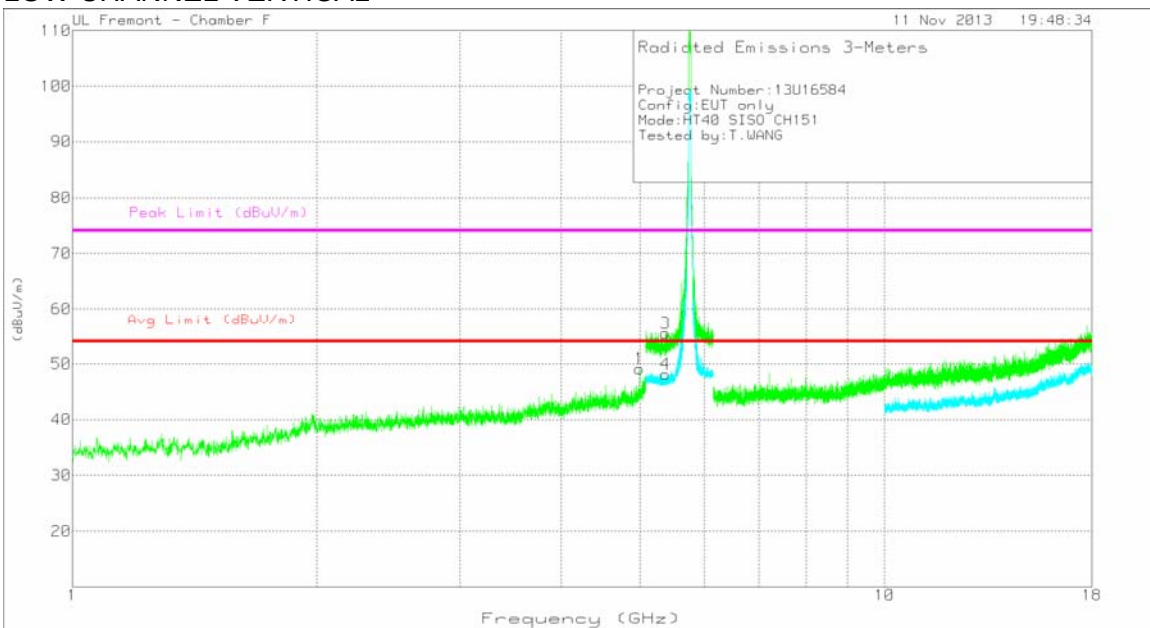
9.2.6. 802.11n HT40 1TX MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



DATA

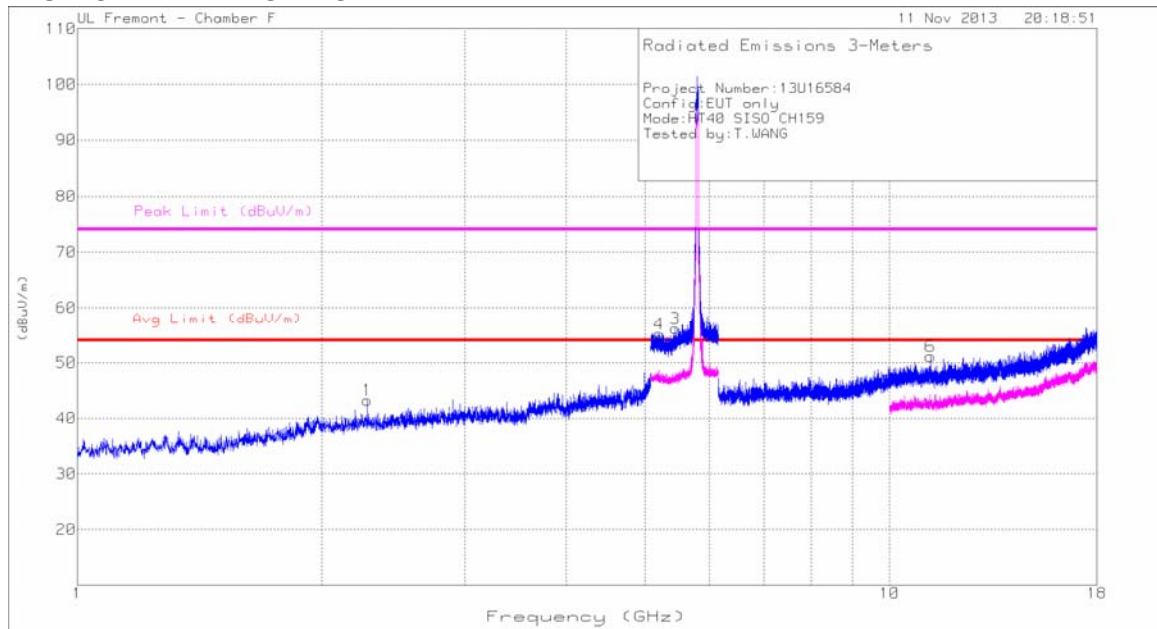
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.989	42.90	PK	34.4	-29.4	47.90	54	-6.10	74.0	-24.90	0-360	200	V
2	* 5.132	34.72	Avg	34.6	-21.5	47.82	54	-6.20	-	-	0-360	199	H
3	* 5.376	42.42	PK	34.8	-21.7	55.52	-	-	74.0	-18.48	0-360	100	V
4	* 5.376	34.94	Avg	34.7	-21.7	47.94	54	-6.06	-	-	0-360	101	V
5	9.291	36.35	PK	37.2	-25.4	48.15	-	-	-	-	0-360	101	H
6	7.093	38.28	PK	36.0	-28.5	45.78	-	-	-	-	0-360	101	H
7	* 7.684	38.39	PK	36.2	-28.3	46.29	54	-7.71	74.0	-27.71	0-360	199	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

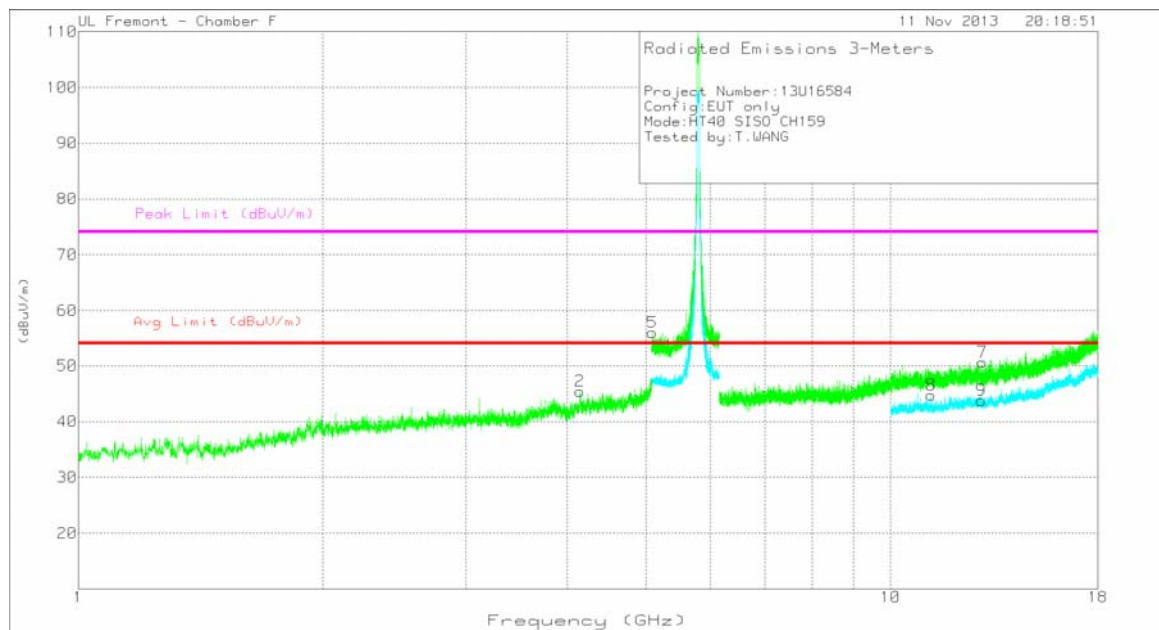
PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /10dB Pad	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.275	43.73	PK	32.4	-32.9	43.23	54	-10.77	74.0	-30.77	0-360	199	H
2	* 4.145	42.75	PK	33.9	-31.2	45.45	54	-8.55	74.0	-28.55	0-360	199	V
3	5.470	42.70	PK	34.8	-21.3	56.20	-	-	-	-	0-360	199	H
4	5.230	41.89	PK	34.6	-21.3	55.19	-	-	-	-	0-360	199	H
5	5.190	43.21	PK	34.5	-21.7	56.01	-	-	-	-	0-360	100	V
6	* 11.229	36.75	PK	38.6	-24.2	51.15	-	-	74.0	-22.85	0-360	199	H
8	* 11.229	30.05	Avg	38.6	-23.9	44.75	54	-9.25	-	-	0-360	199	V
7	12.974	37.36	PK	39.1	-25.8	50.66	-	-	-	-	0-360	101	V
9	12.939	30.54	Avg	39.1	-25.8	43.84	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

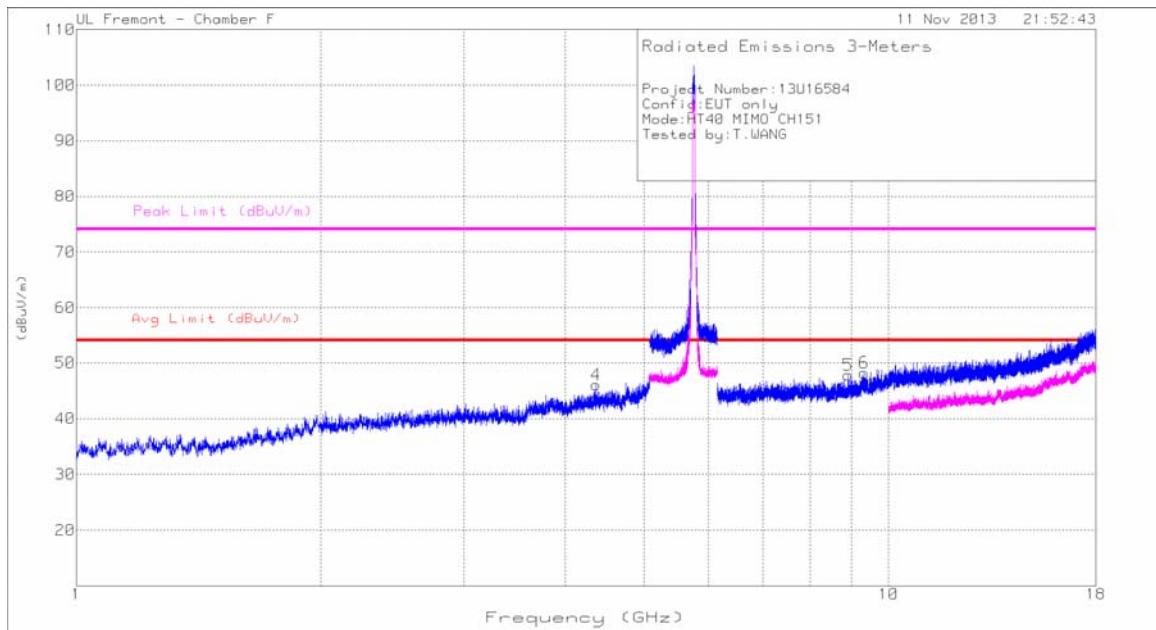
PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

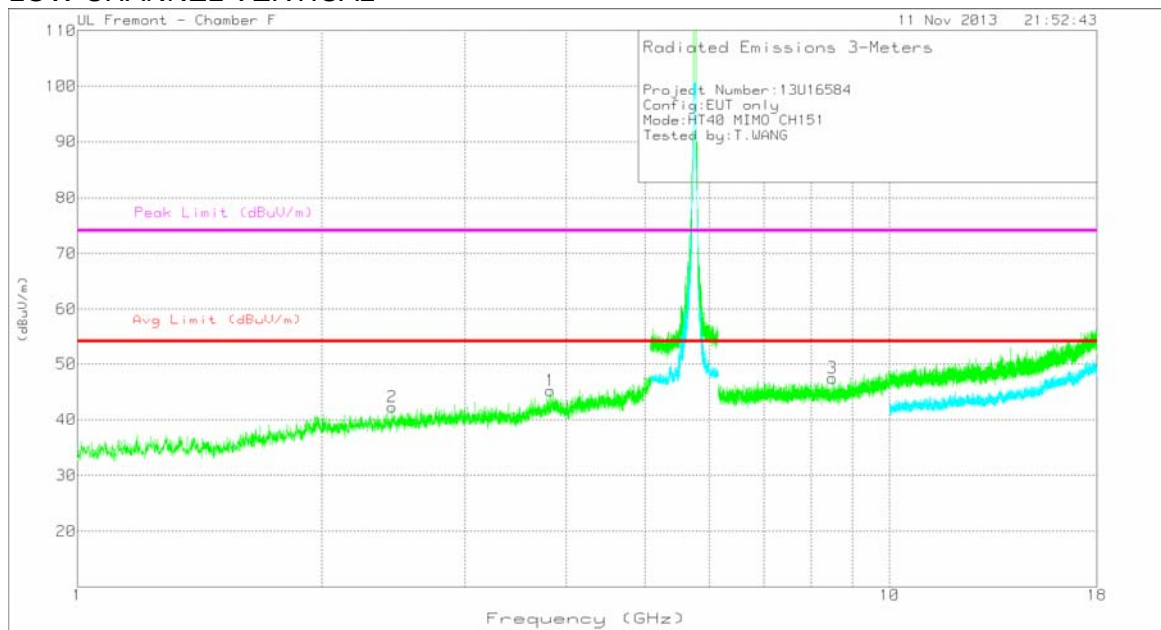
9.2.7. 802.11n HT40 2TX CDD MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



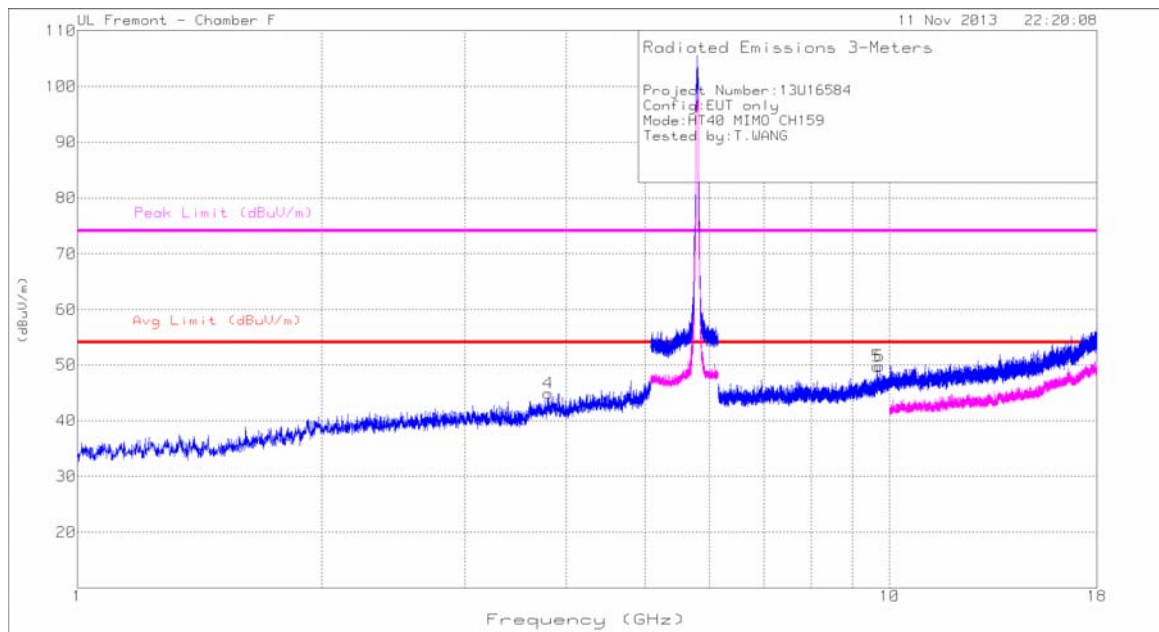
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*3.823	43.19	PK	33.7	-31.7	45.19	54	-8.81	74.0	-28.81	0-360	200	V
2	2.441	42.80	PK	32.6	-33.1	42.30	-	-	-	-	0-360	200	V
3	*8.506	38.24	PK	36.2	-27.0	47.44	54	-6.56	74.0	-26.56	0-360	199	V
4	*4.366	43.15	PK	34.1	-31.2	46.05	54	-7.95	74.0	-27.95	0-360	100	H
5	8.916	37.70	PK	36.7	-26.6	47.80	-	-	-	-	0-360	199	H
6	*9.330	36.60	PK	37.2	-25.6	48.20	54	-5.80	74.0	-25.80	0-360	101	H

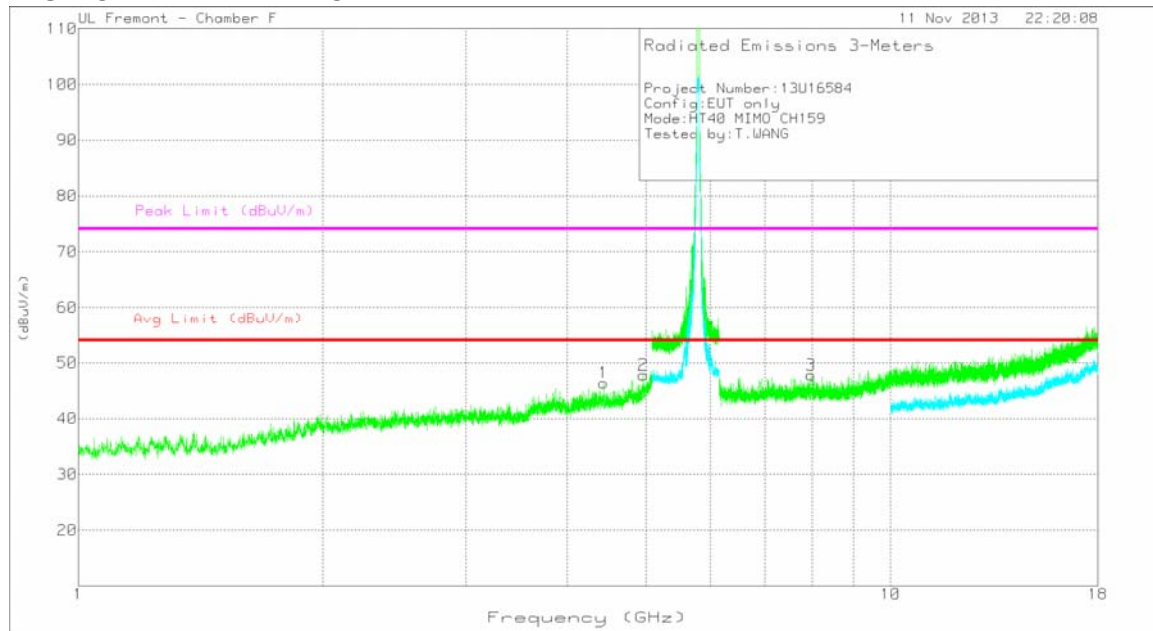
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



DATA

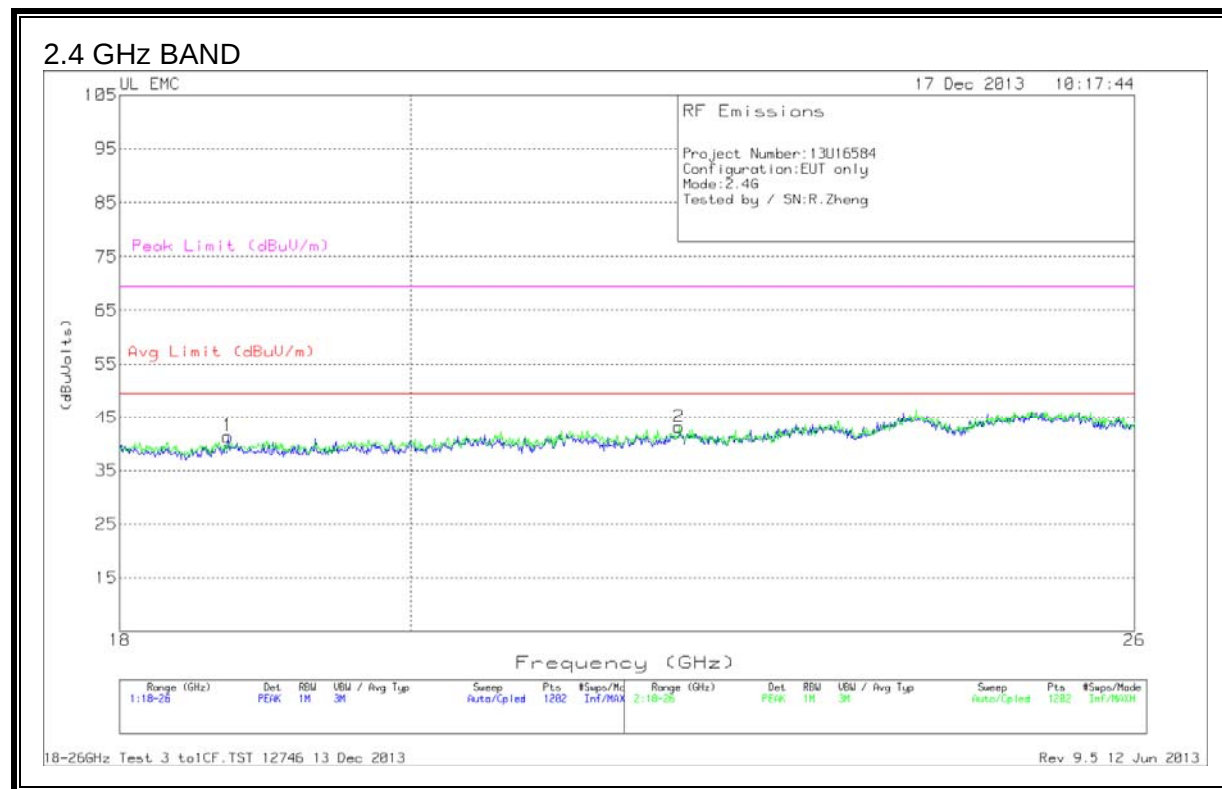
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl /5GHz LPF	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.431	42.93	PK	34.2	-30.7	46.43	-	-	-	-	0-360	100	V
2	*4.959	43.73	PK	34.4	-30.3	47.83	54	-6.17	74.0	-26.17	0-360	199	V
3	7.978	39.00	PK	36.2	-27.4	47.80	-	-	-	-	0-360	100	V
4	*3.800	43.10	PK	33.7	-31.9	44.90	54	-9.10	74.0	-29.10	0-360	100	H
5	9.662	37.43	PK	37.6	-25.3	49.73	-	-	-	-	0-360	199	H
6	9.723	37.10	PK	37.6	-24.9	49.80	-	-	-	-	0-360	199	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

9.3. WORST-CASE ABOVE 18 GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

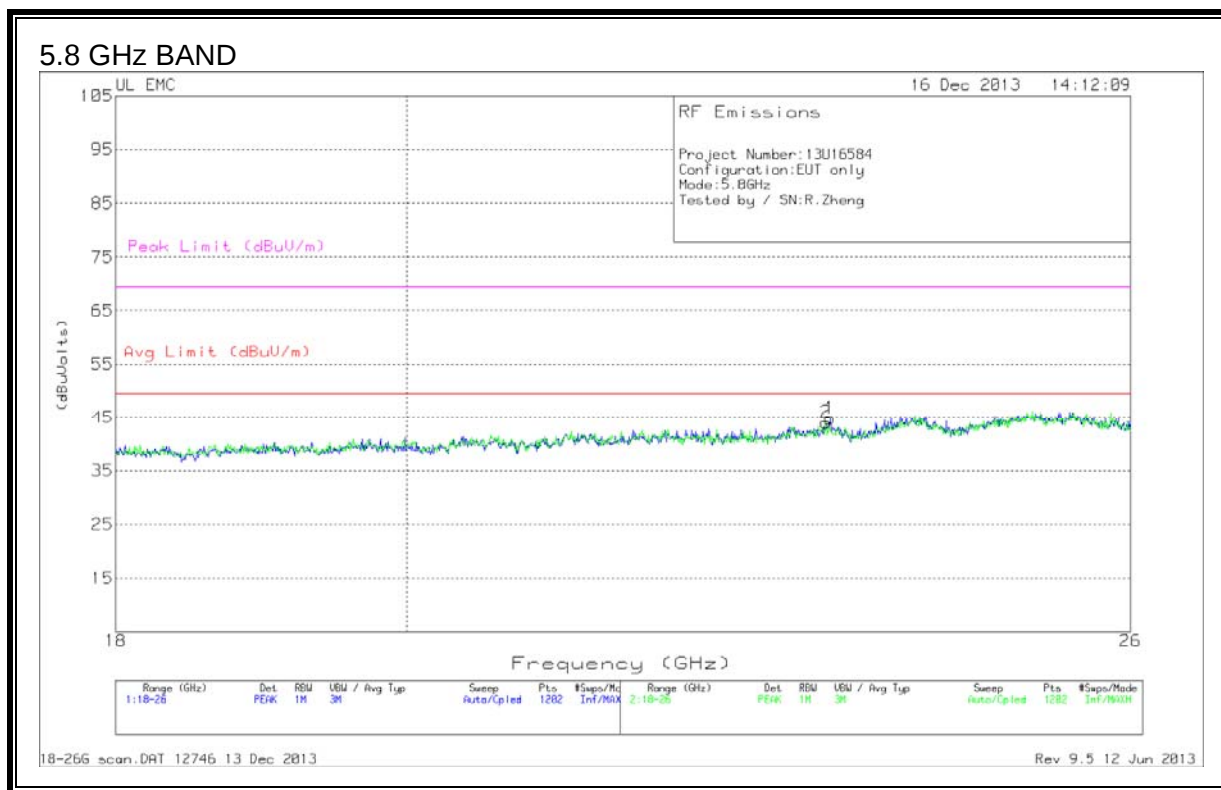


DATA

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	18.719	42.43	PK	32.5	-24.1	-9.5	41.33	49.5	-8.17	69.5	-28.17
2	22.043	42.87	PK	33.3	-23.5	-9.5	43.16	49.5	-6.33	69.5	-26.33

PK - Peak detector

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

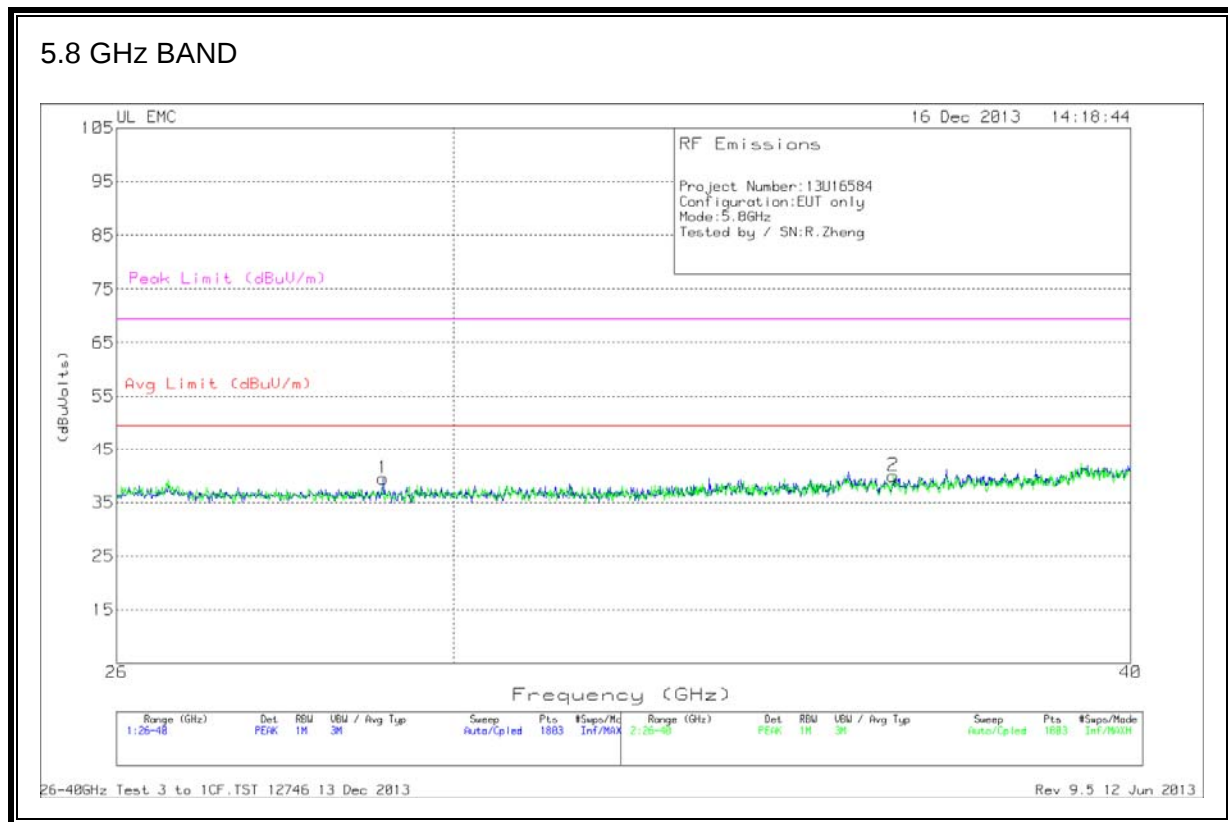


DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (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	23.316	44.03	PK	33.4	-23.1	-9.5	44.8	49.5	-4.7	69.5	-24.7
2	23.282	43.00	PK	33.4	-22.9	-9.5	44.0	49.5	-5.5	69.5	-25.5

PK - Peak detector

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



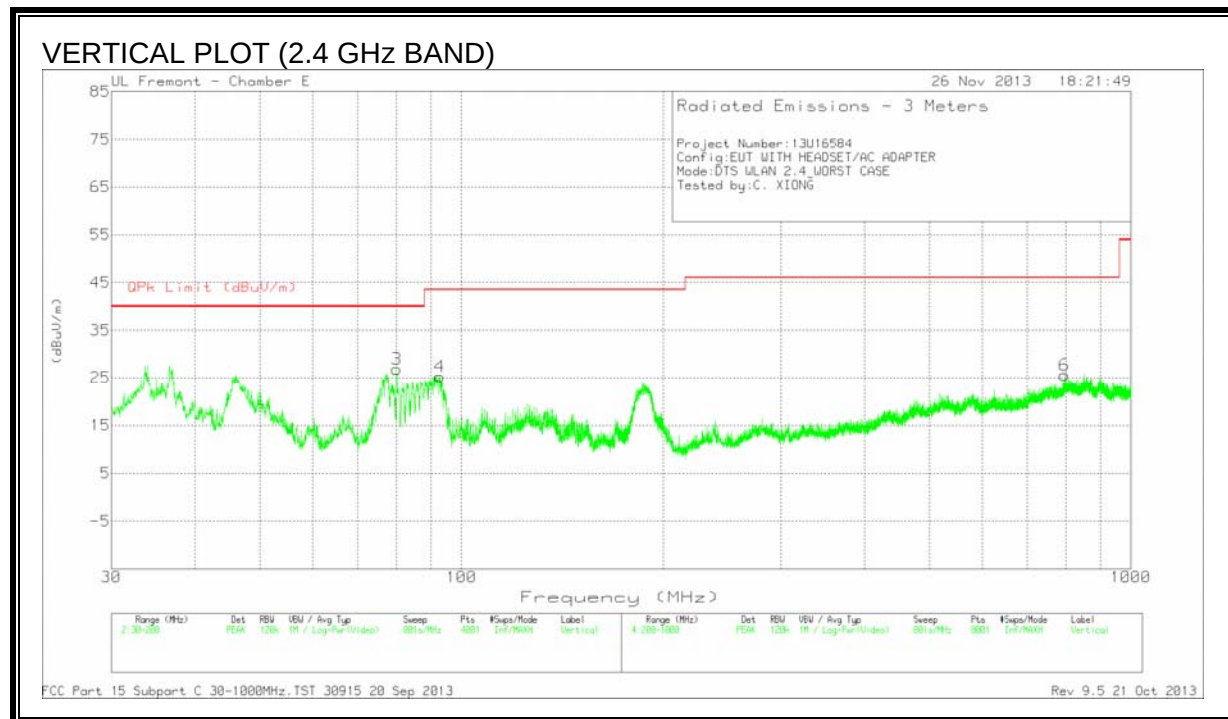
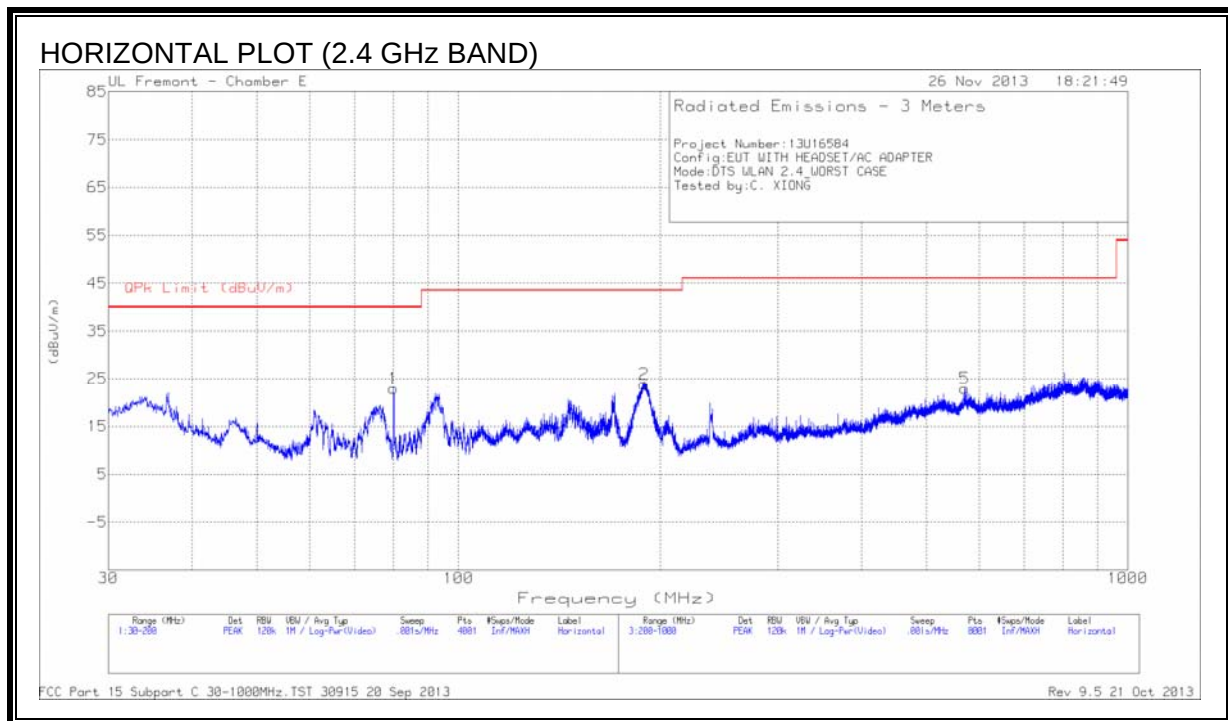
DATA

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	29.115	48.3	PK	35.9	-35.2	-9.5	39.5	49.5	-10.0	69.5	-30.0
2	36.162	50.2	PK	37.2	-37.9	-9.5	40.0	49.5	-9.5	69.5	-29.5

PK - Peak detector

9.4. WORST-CASE BELOW 1 GHz

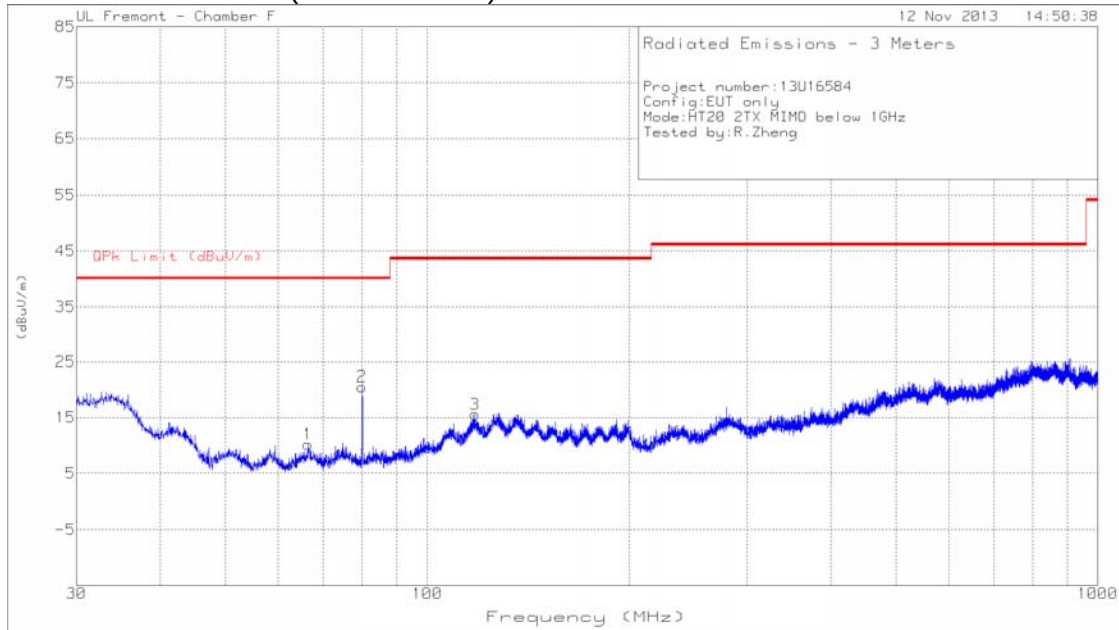
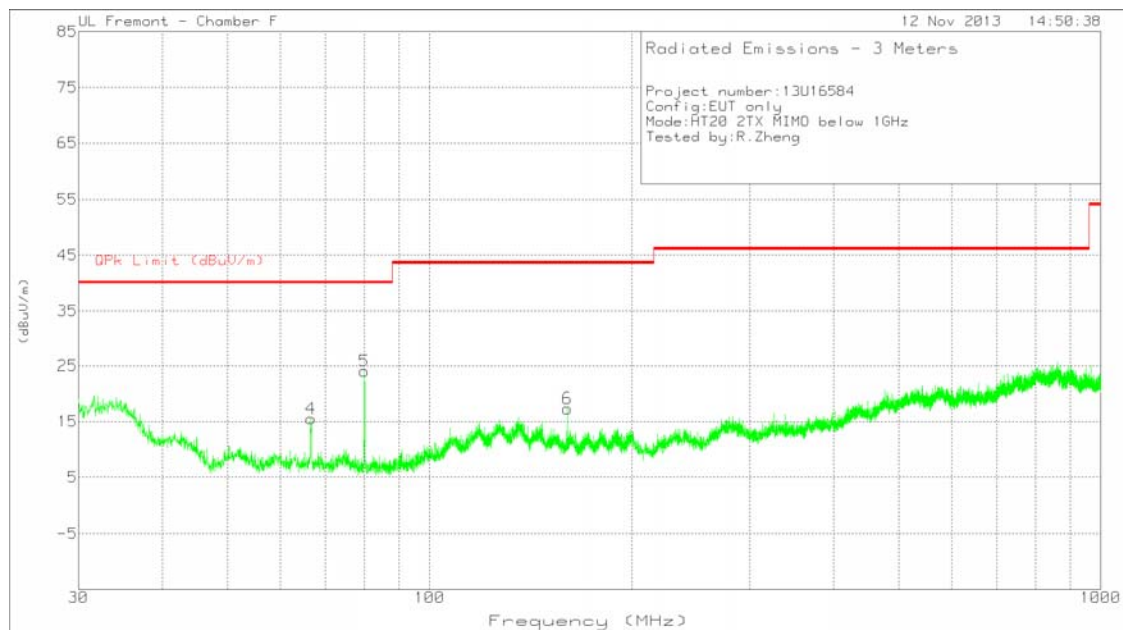
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	79.980	42.95	PK	7.7	-27.7	22.95	40.00	-17.05	0-360	300	H
2	189.4175	39.15	PK	11.3	-26.6	23.85	43.52	-19.67	0-360	98	H
3	80.0225	46.87	PK	7.7	-27.7	26.87	40.00	-13.13	0-360	100	V
4	92.815	44.65	PK	8.2	-27.6	25.25	43.52	-18.27	0-360	100	V
5	570.300	30.15	PK	18.8	-26.0	22.95	46.02	-23.07	0-360	99	H
6	796.000	29.98	PK	21.3	-25.7	25.58	46.02	-20.44	0-360	300	V

PK - Peak detector

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)**HORIZONTAL PLOT (5.8GHz BAND)****VERTICAL PLOT (5.8GHz BAND)**

DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.380	30.22	PK	8.1	-28.1	10.22	40.00	-29.78	0-360	300	H
2	79.980	40.54	PK	7.7	-27.7	20.54	40.00	-19.46	0-360	300	H
3	117.805	29.87	PK	13.6	-27.9	15.57	43.52	-27.95	0-360	200	H
4	66.5925	35.52	PK	8.1	-28.1	15.52	40.00	-24.48	0-360	100	V
5	79.980	44.07	PK	7.7	-27.7	24.07	40.00	-15.93	0-360	100	V
6	160.475	32.93	PK	12.1	-27.7	17.33	43.52	-26.19	0-360	100	V

PK - Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

Refer to the FCC DTS report with the FCC ID BCGA1475 and project number 13U15555-9 at Section 10.