



**FCC 47 CFR PART 15 SUBPART E  
C2PC CERTIFICATION TEST REPORT  
FOR**

**GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC**

**MODEL NUMBER: LGLS990, LG-LS990, LS990**

**FCC ID: ZNFLS990**

**REPORT NUMBER: 14U17849-5**

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** LG ELECTRONICS MOBILECOMM U.S.A., INC.  
**EUT DESCRIPTION:** GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC.  
**MODEL:** LGLS990, LG-LS990, LS990  
**SERIAL NUMBER:** 17QZC (Radiated)  
**DATE TESTED:** MAY 27 – JUNE 5, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	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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LAB ENGINEER  
UL Verification Services Inc.

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.4-2009. KDB for 802.11 AC: 644545 D02 Alternative Guidance for 802.11ac v01; 644545 D01 Guidance for IEEE 802.11ac v01r01.

## 3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
<input checked="" type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D
<input checked="" type="checkbox"/> Chamber B	<input checked="" type="checkbox"/> Chamber E
<input type="checkbox"/> Chamber C	<input checked="" type="checkbox"/> Chamber F

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 18000 MHz	4.94 dB

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

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC.

### 5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Total Output Power (dBm)	Total Output Power (mW)
5180-5240	802.11a	12.84	19.23
5180-5240	802.11n HT20	12.16	16.44
5190-5230	802.11n HT40	12	15.85
5210	802.11ac HT80	11.75	14.96
5260-5320	802.11a	12.56	18.03
5260-5320	802.11n HT20	11.52	14.19
5270-5310	802.11n HT40	11.1	12.88
5290	802.11ac HT80	10.89	12.27
5500-5700	802.11a	11.73	14.89
5500-5700	802.11n HT20	10.65	11.61
5510-5670	802.11n HT40	10.02	10.05
5530	802.11ac HT80	10.34	10.81
5745-5825	802.11a	11.75	469.07
5745-5825	802.11n HT20	10.34	130.45
5755-5795	802.11n HT40	9.8	86.10
5775	802.11ac HT80	10.55	11.35

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -3.26 dBi.

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## 5.4. WORST-CASE CONFIGURATION AND MODE

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

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

Based on the baseline scan, the worst-case data rates were:

802.11a mode: 6 Mbps  
802.11n HT20mode: MCS0  
802.11n HT40mode: MCS0  
802.11ac HT80mode: MCS0



## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-04WT2	TA350000050	N/A
Earphone	LG	N/A	N/A	N/A
WPC Back Cover	LG	N/A	N/A	N/A
WPC Charger	LG	WPC-300	304HYBF00069	BEJWCP300

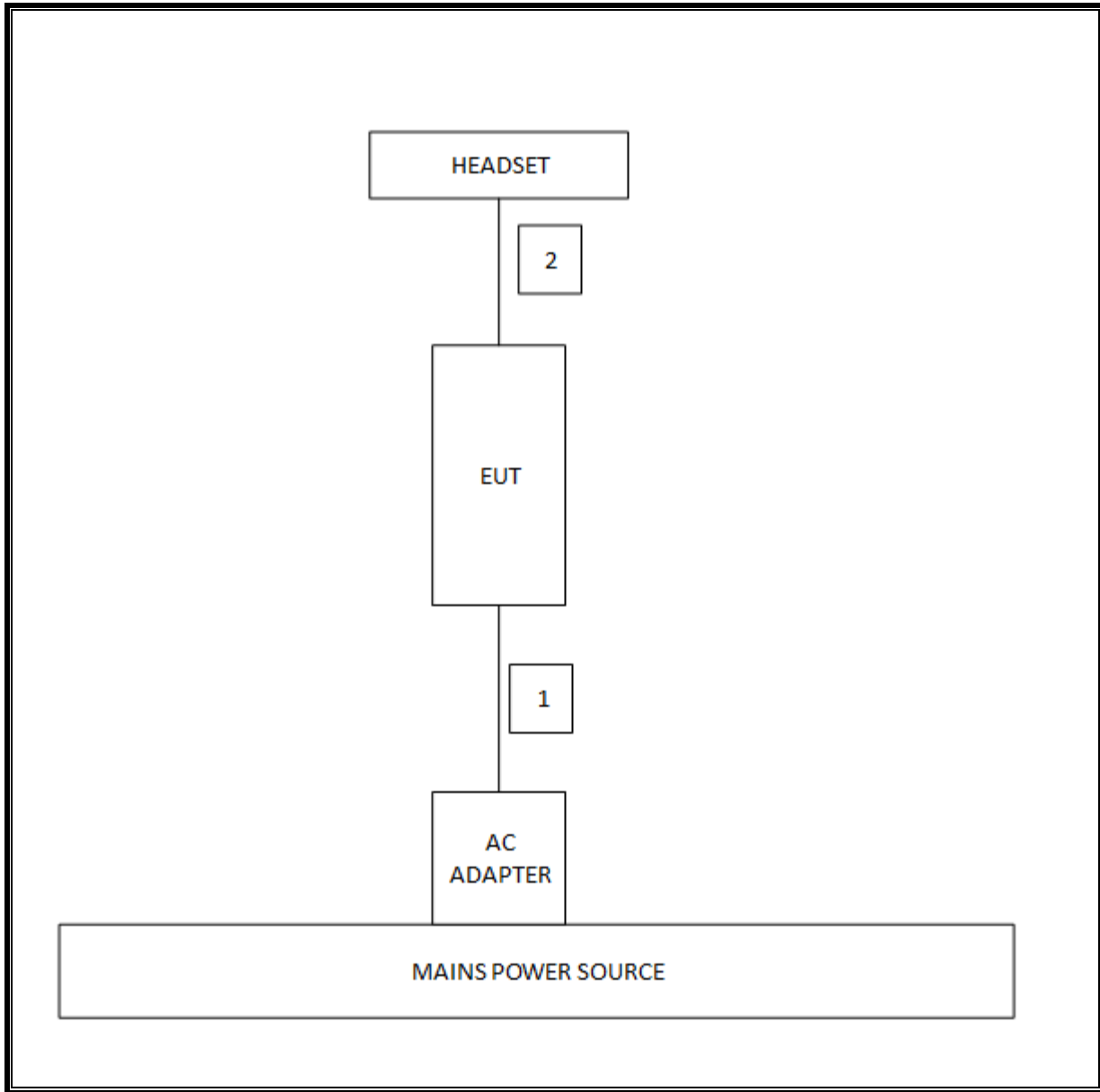
### I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1.0m	N/A

### TEST SETUP

The EUT is setup as a stand-alone device.

**SETUP DIAGRAM FOR TESTS**



## 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
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
Spectrum Analyzer,9KHz-40GHz	HP	8564E	C00986	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/14
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn,18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/14
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/14
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/15
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/15
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/14
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR
RF Preamplifier, 1GHz - 40GHz	Miteq	NSP4000-SP2	C00990	08/20/14
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/15
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/15
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/15

## 7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)	Occupied Band width (26dB)	N/A	Conducted	Pass	see original
2.1051, 15.407 (b)	Band Edge / Conducted Spurious Emission	54dBuV/m (avg)		Pass	see original
15.407 (a)(1)	TX Cond. Power 5.15-2.25	<17dBm or 4+10Log(OBW)		Pass	see original
15.407 (a)(2)	TX Cond. Power 5.25-5.35 & 5.47-5.725	<24dBm or 11+10Log(OBW)		Pass	see original
15.407 (a)(3)	TX Cond. Power 5.725-5.825	< 30dBm or 17+10Log(OBW)		Pass	see original
15.407 (a)(5)	PSD	<8dBm		Pass	see original
15.407 (a)(6)	Peak Excursion Ratio	13dB		Pass	see original
15.207 (a)	AC Power Line conducted emissions	Section 10	Radiated	Pass	see original
15.407 (b) & 15.209	Radiated Spurious Emission	< 54dBuV/m		Pass	48.62dBuV/m

## 8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

### LIMITS

None; for reporting purposes only.

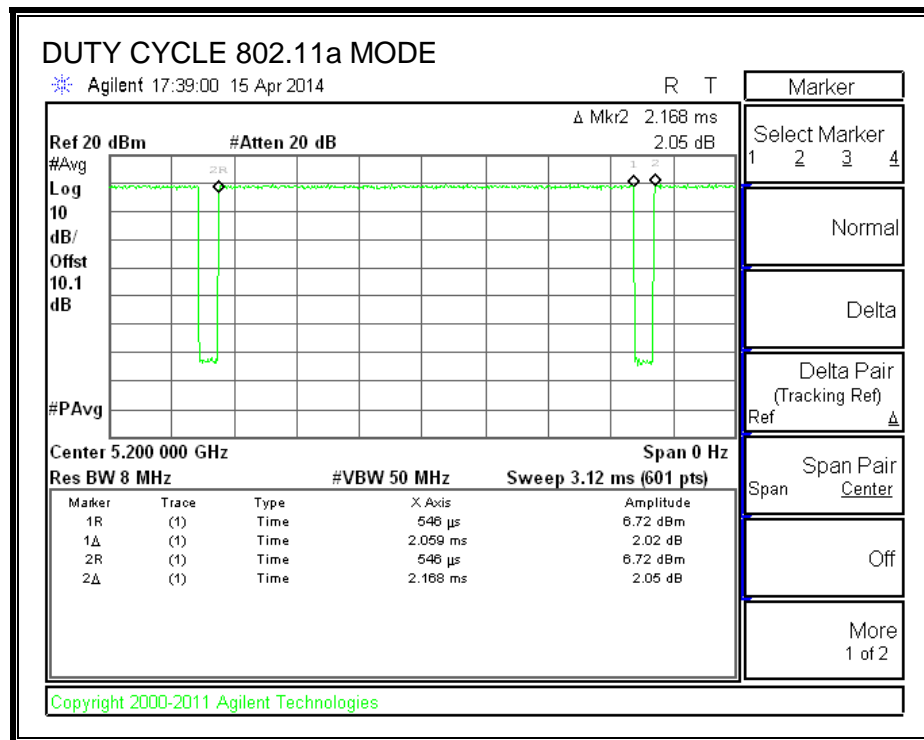
### PROCEDURE

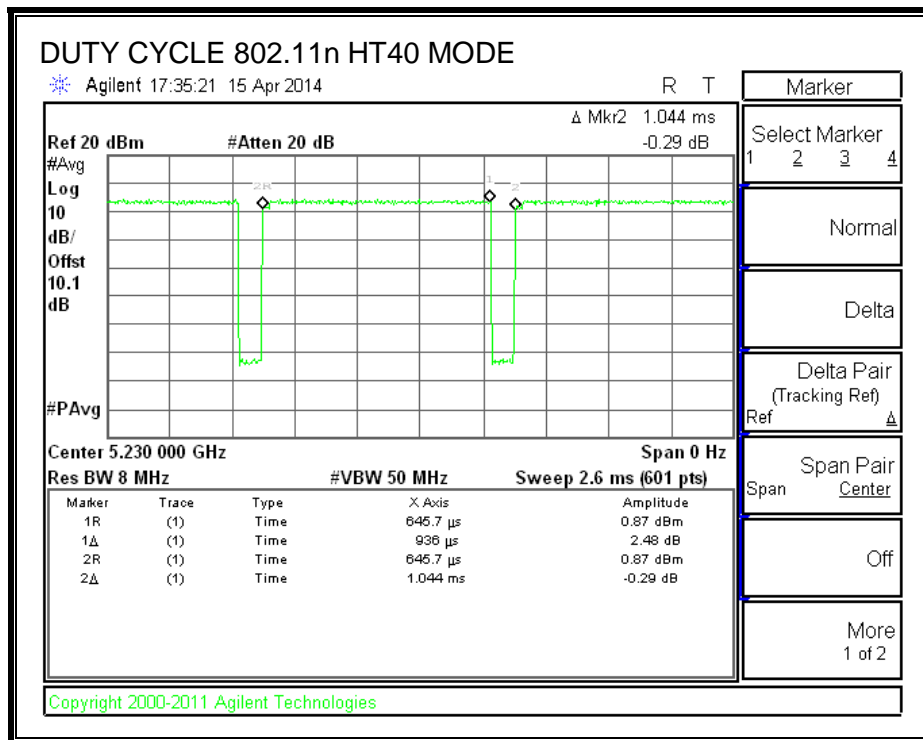
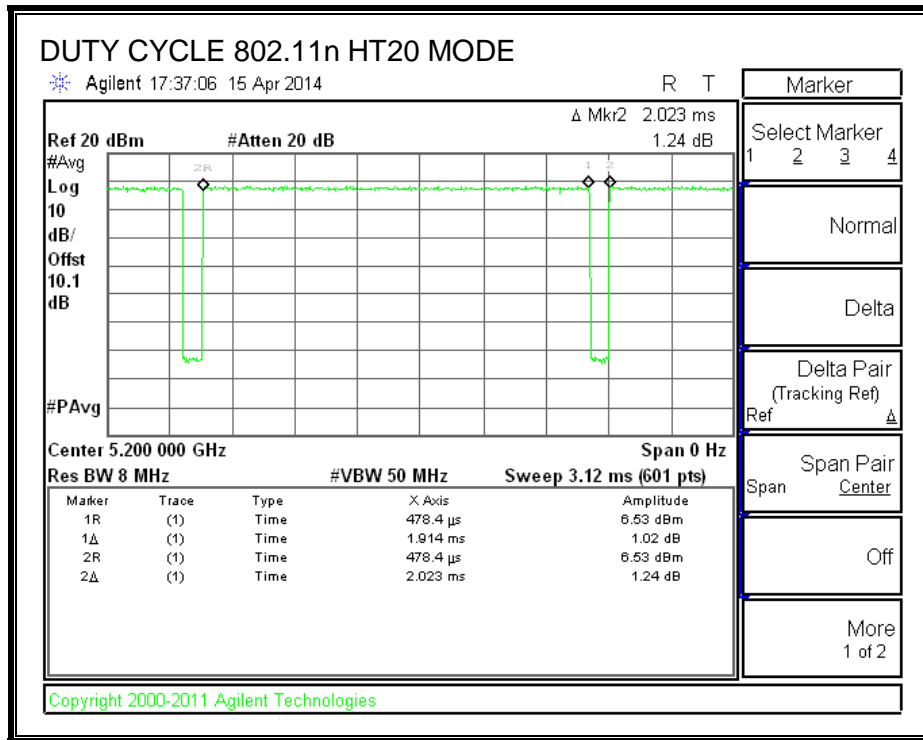
KDB 789033 Zero-Span Spectrum Analyzer Method.

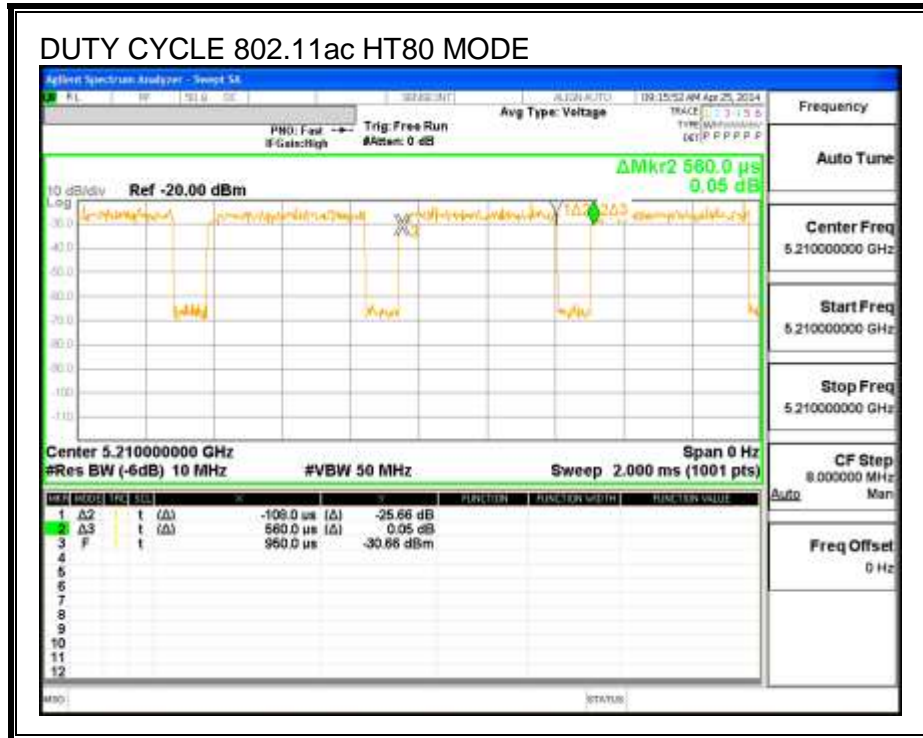
### 8.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
<b>5.2G Band</b>						
802.11a	2.059	2.168	0.950	95.0%	0.22	0.486
802.11n HT20	1.914	2.023	0.946	94.6%	0.24	0.522
802.11n HT40	0.936	1.044	0.897	89.7%	0.47	1.068
802.11ac HT80	0.460	0.560	0.821	82.1%	0.85	2.174

## 8.2. DUTY CYCLE PLOTS( From original)









## 9. MEASUREMENT METHOD

The Duty Cycle is less than 98% and consistent therefore KDB 789033 Method SA-2 is used for power and PPSD

The Duty Cycle is less than 98% and consistent, KDB 789033 Method AD with Power RMS Averaging and duty cycle correction is used.

## 10. TRANSMITTER ABOVE 1 GHz

### 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.

Reference to KDB 789033 UNII part H) 6) d) Method VB:

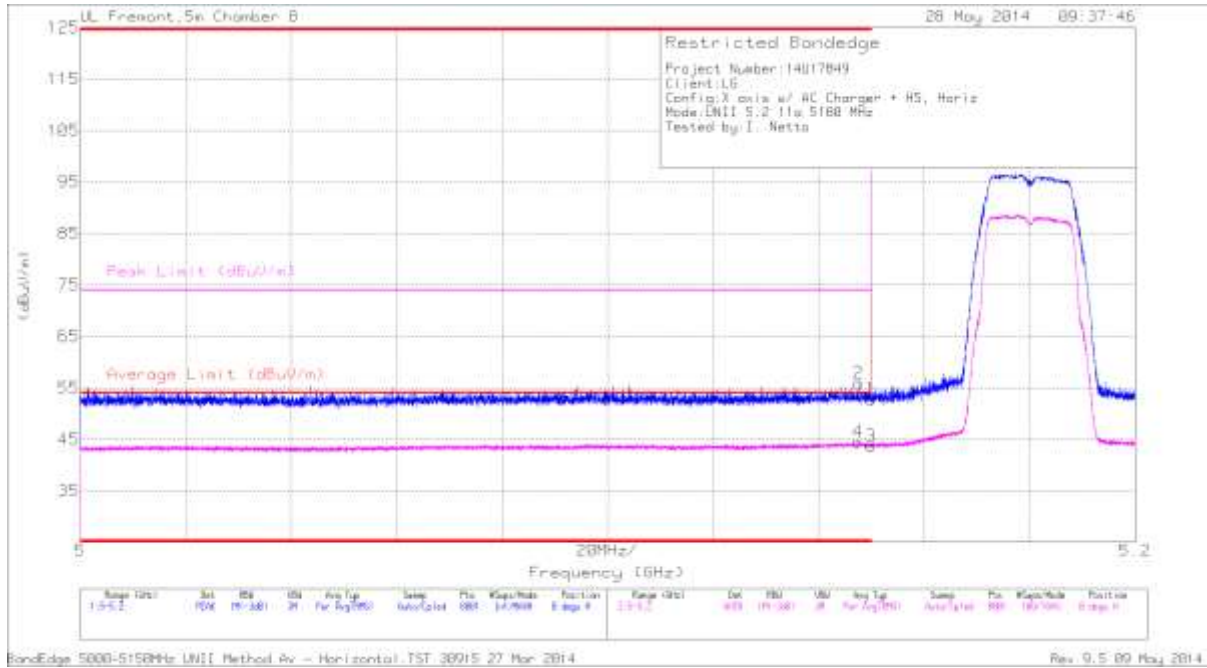
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

The spectrum from 1GHz 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.

## 10.1. 5.2 GHz

### 10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

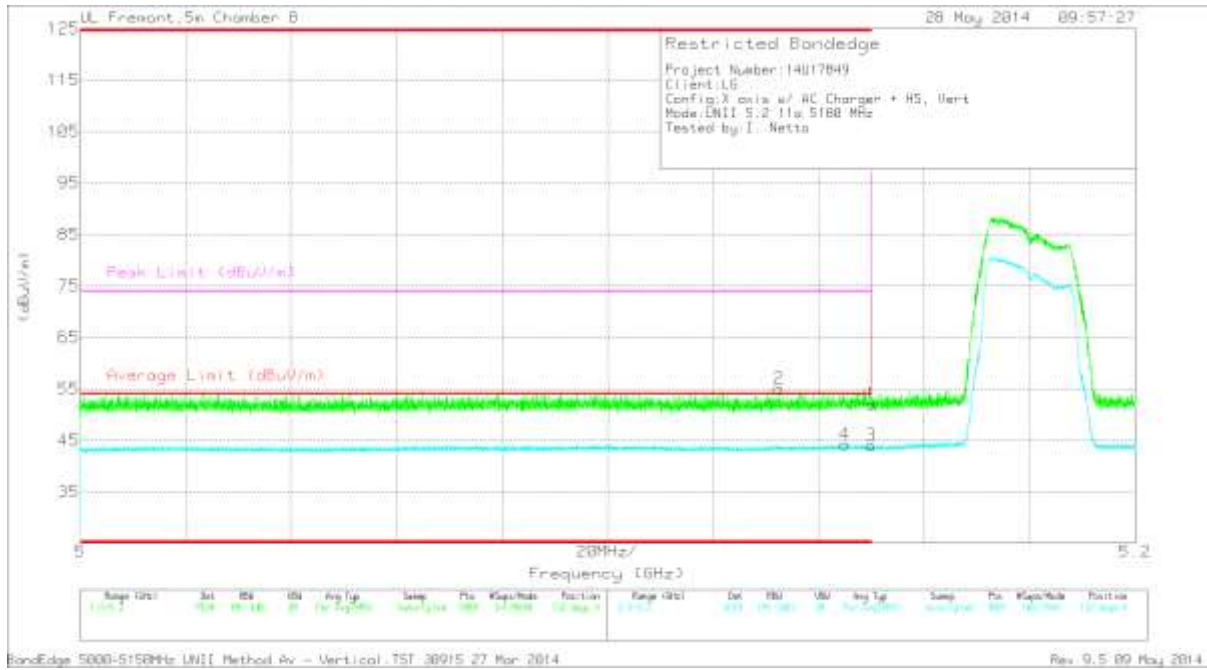


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.147	30.28	RMS	34.3	-20.3	.2	44.48	54	-9.52	-	-	0	108	H
2	* 5.148	41.92	PK	34.3	-20.3	0	55.92	-	-	74	-18.08	0	108	H
1	* 5.15	38.81	PK	34.3	-20.3	0	52.81	-	-	74	-21.19	0	108	H
3	* 5.15	29.52	RMS	34.3	-20.3	.2	43.72	54	-10.28	-	-	0	108	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.132	41.1	PK	34.3	-20.3	0	55.1	-	-	74	-18.9	132	161	V
4	* 5.145	29.95	RMS	34.3	-20.2	.2	44.25	54	-9.75	-	-	132	161	V
1	* 5.15	38.08	PK	34.3	-20.3	0	52.08	-	-	74	-21.92	132	161	V
3	* 5.15	29.82	RMS	34.3	-20.3	.2	44.02	54	-9.98	-	-	132	161	V

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

PK - Peak detector

RMS - RMS detection

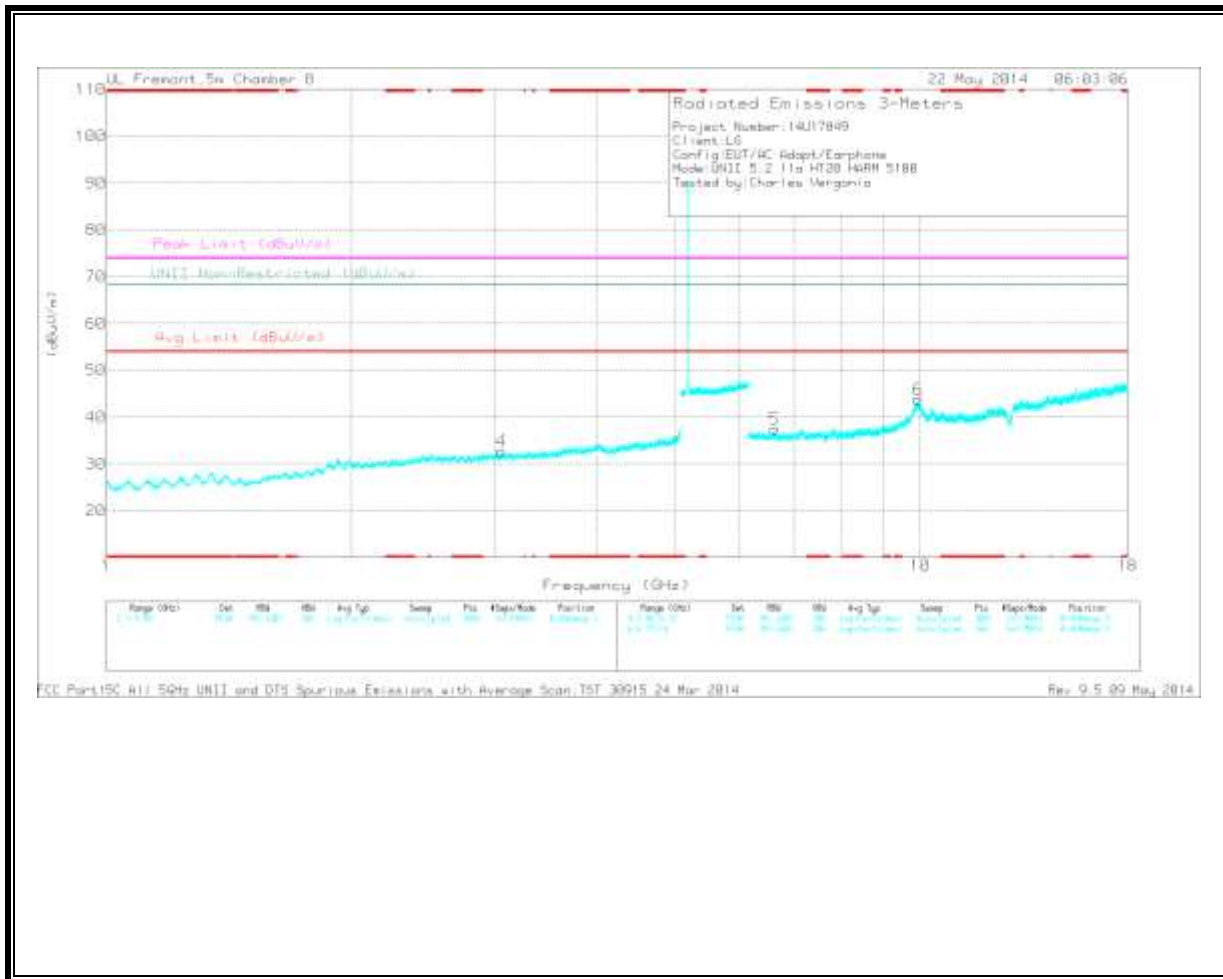
### HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.868	32.97	PK	30.8	-33.3	0	30.47	-	-	-	-	68.2	-37.73	0-360	99	H
2	2.055	32.74	PK	31.3	-33.8	0	30.24	-	-	-	-	68.2	-37.96	0-360	99	H
3	2.527	31.98	PK	32.5	-32.5	0	31.98	-	-	-	-	68.2	-36.22	0-360	202	H
4	3.056	32.24	PK	32.8	-32.2	0	32.84	-	-	-	-	68.2	-35.36	0-360	202	V
5	6.623	29.78	PK	35.7	-28	0	37.48	-	-	-	-	68.2	-30.72	0-360	99	V
6	9.942	30.9	PK	37	-24.1	0	43.8	-	-	-	-	68.2	-24.4	0-360	202	V

PK - Peak detector

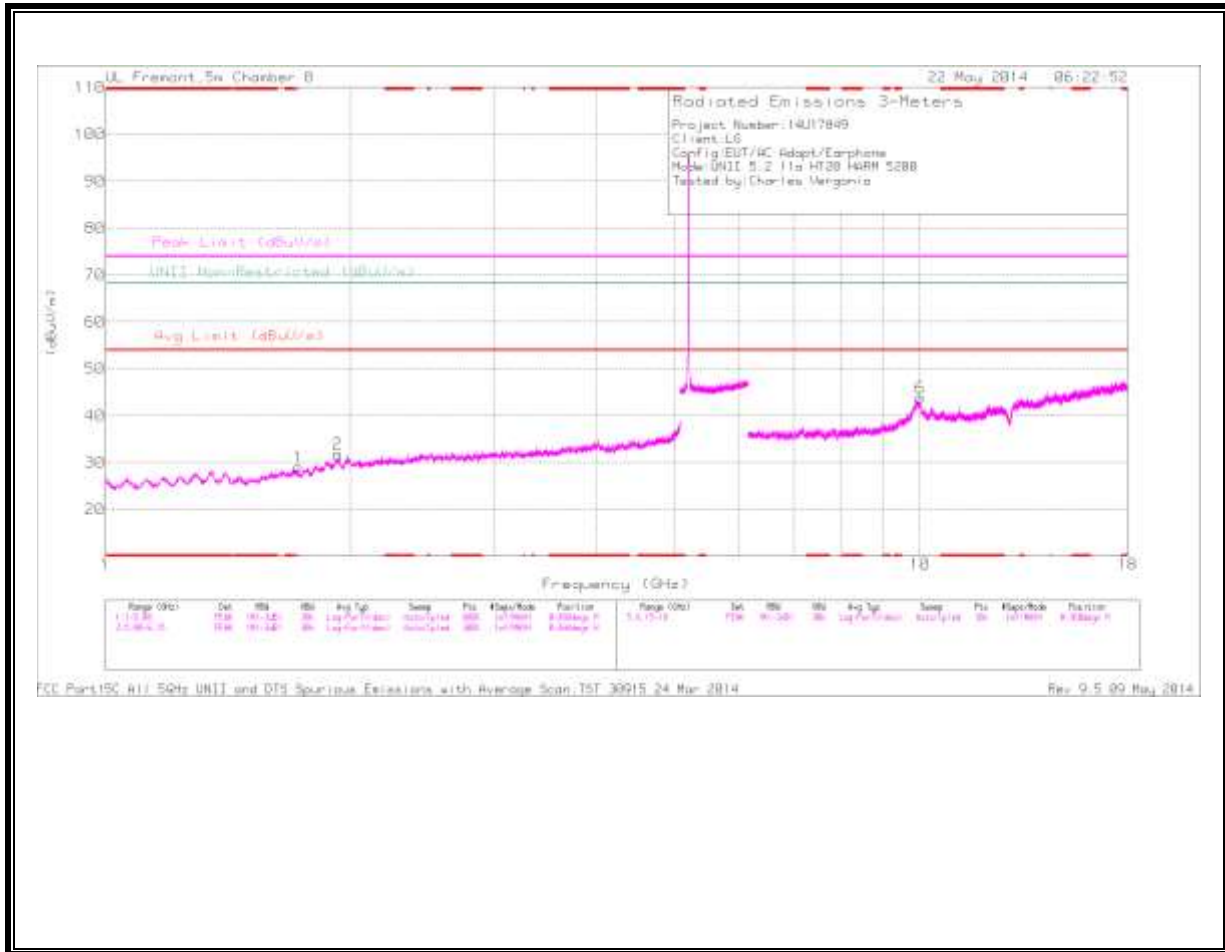
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.942	39.37	PK1	37	-24.1	0	52.27	-	-	-	-	68.2	-15.93	360	204	V
9.944	27.62	AD1	37	-24.1	.2	40.72	-	-	-	-	-	-	360	204	V

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

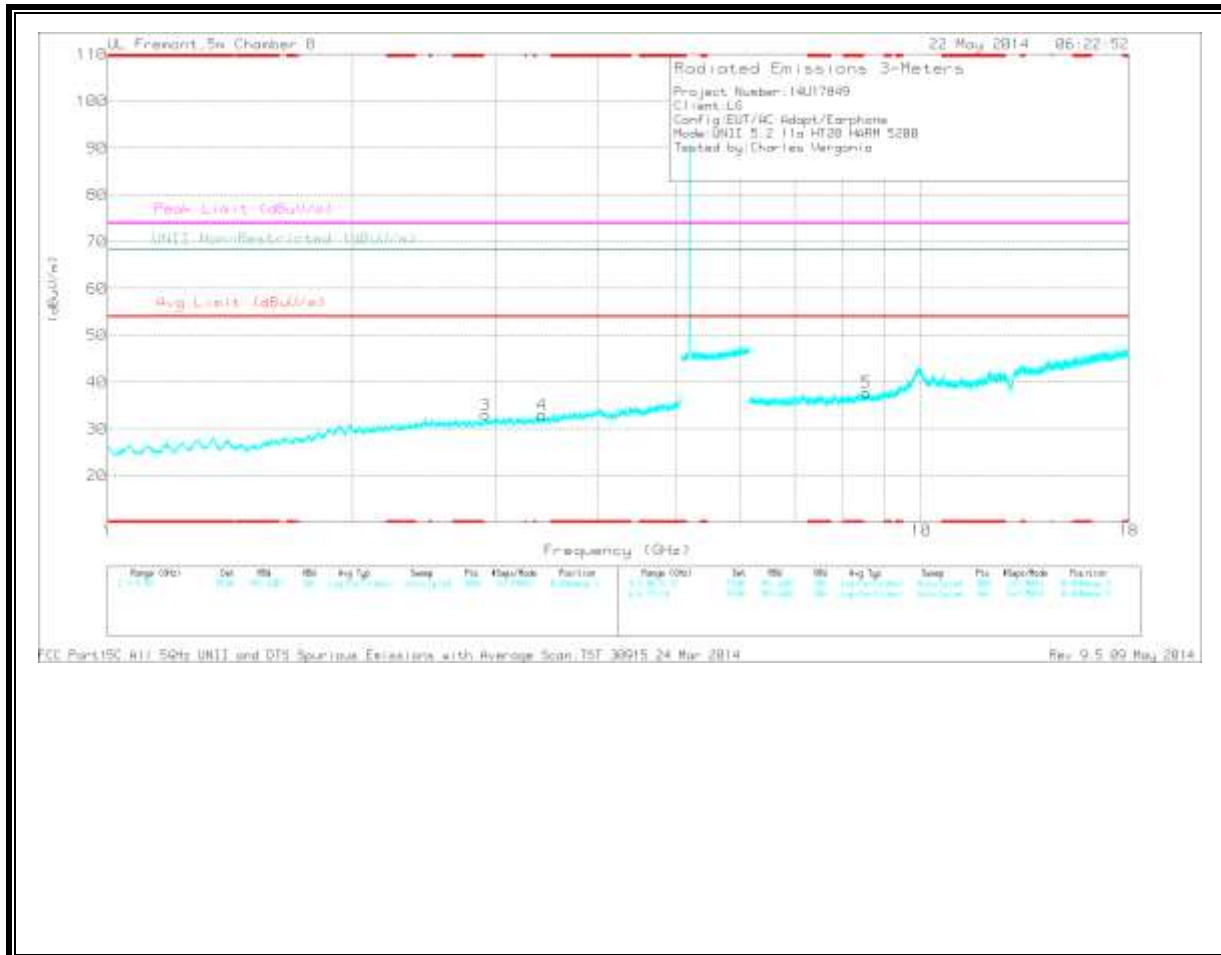
MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.724	33.31	PK	29.3	-33.6	0	29.01	-	-	-	-	68.2	-39.19	0-360	99	H
2	1.928	33.61	PK	31.1	-32.9	0	31.81	-	-	-	-	68.2	-36.39	0-360	202	H
3	2.911	32.46	PK	32.6	-32	0	33.06	-	-	-	-	68.2	-35.14	0-360	202	V
4	3.42	31.4	PK	32.8	-31.2	0	33	-	-	-	-	68.2	-35.2	0-360	202	V
5	8.556	28.15	PK	35.8	-26.1	0	37.85	-	-	-	-	68.2	-30.35	0-360	99	V
6	10.006	29.99	PK	37.1	-23.3	0	43.79	-	-	-	-	68.2	-24.41	0-360	202	H

PK - Peak detector

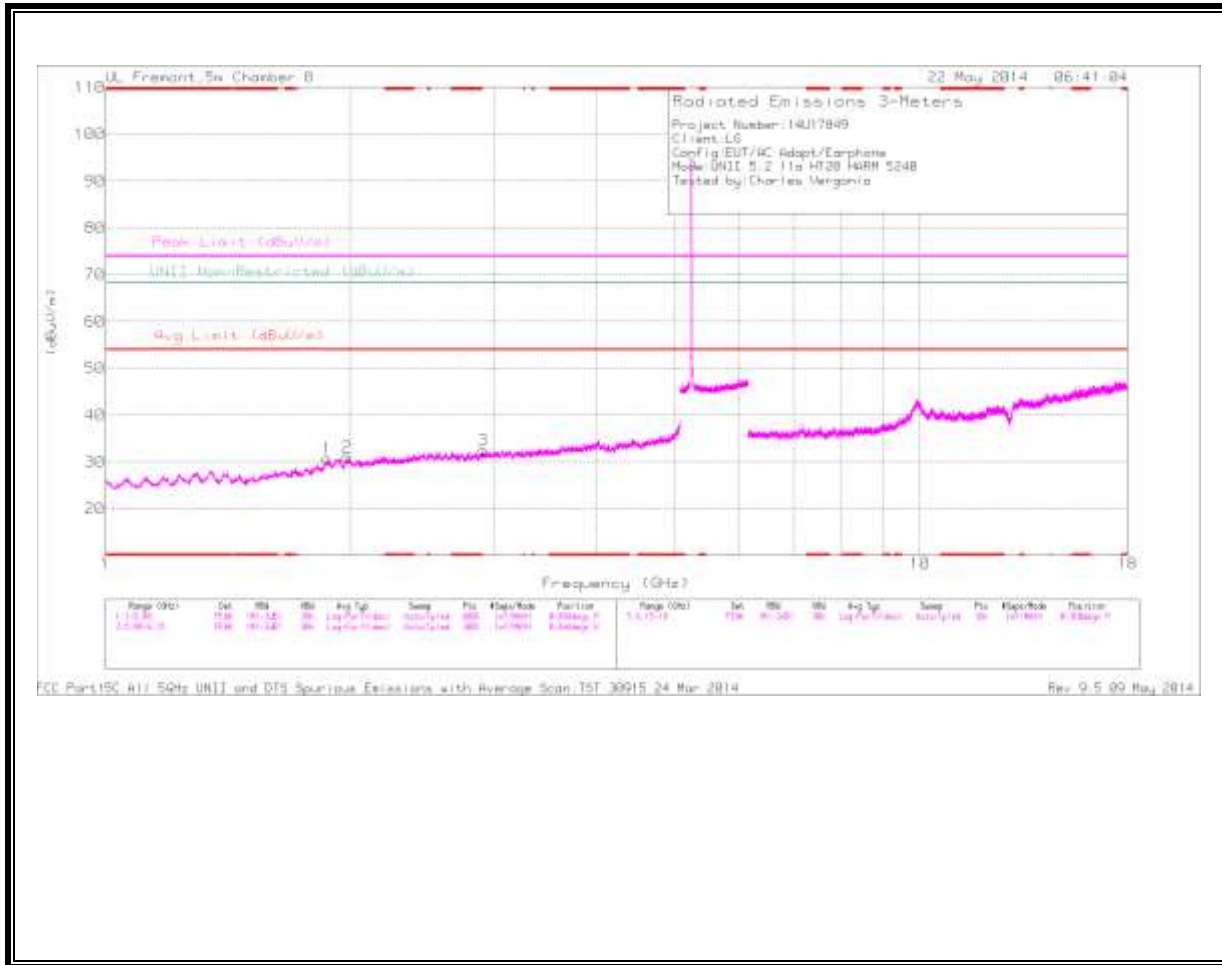
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
10.004	38.19	PK1	37	-23.3	0	51.89	-	-	-	-	68.2	-16.31	360	204	H
10.008	26.72	AD1	37.1	-23.3	.2	40.72	-	-	-	-	-	-	360	204	H

PK1 - KDB789033 Method: Peak

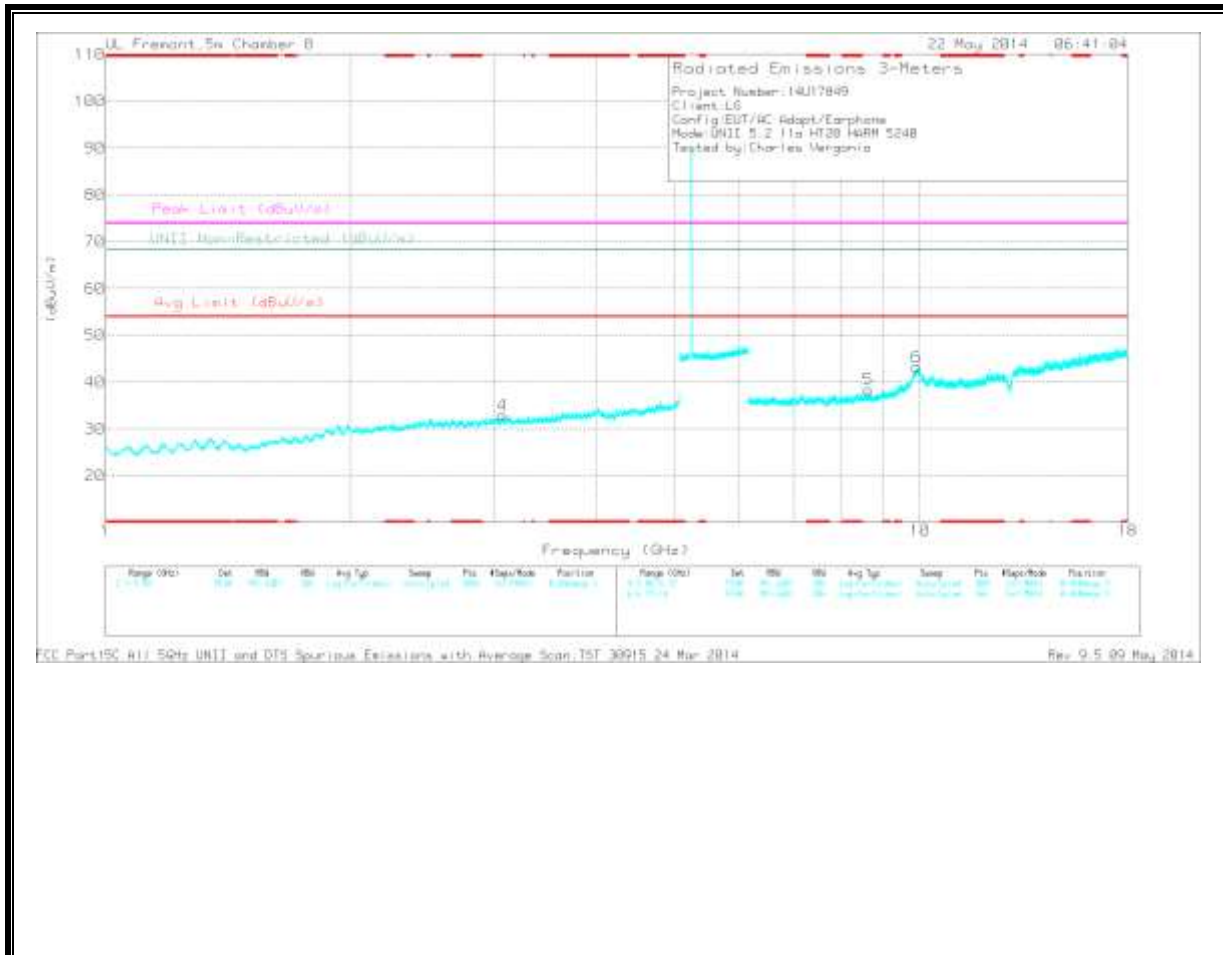
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.871	33.12	PK	30.8	-33.2	0	30.72	-	-	-	-	68.2	-37.48	0-360	202	H
2	1.977	32.53	PK	31.3	-32.8	0	31.03	-	-	-	-	68.2	-37.17	0-360	202	H
3	2.907	32.06	PK	32.6	-32.1	0	32.56	-	-	-	-	68.2	-35.64	0-360	99	H
4	3.075	32.17	PK	32.9	-32.1	0	32.97	-	-	-	-	68.2	-35.23	0-360	99	V
5	8.632	28.23	PK	35.8	-25.6	0	38.43	-	-	-	-	68.2	-29.77	0-360	99	V
6	9.904	30.43	PK	37	-24.1	0	43.33	-	-	-	-	68.2	-24.87	0-360	202	V

PK - Peak detector

Radiated Emissions

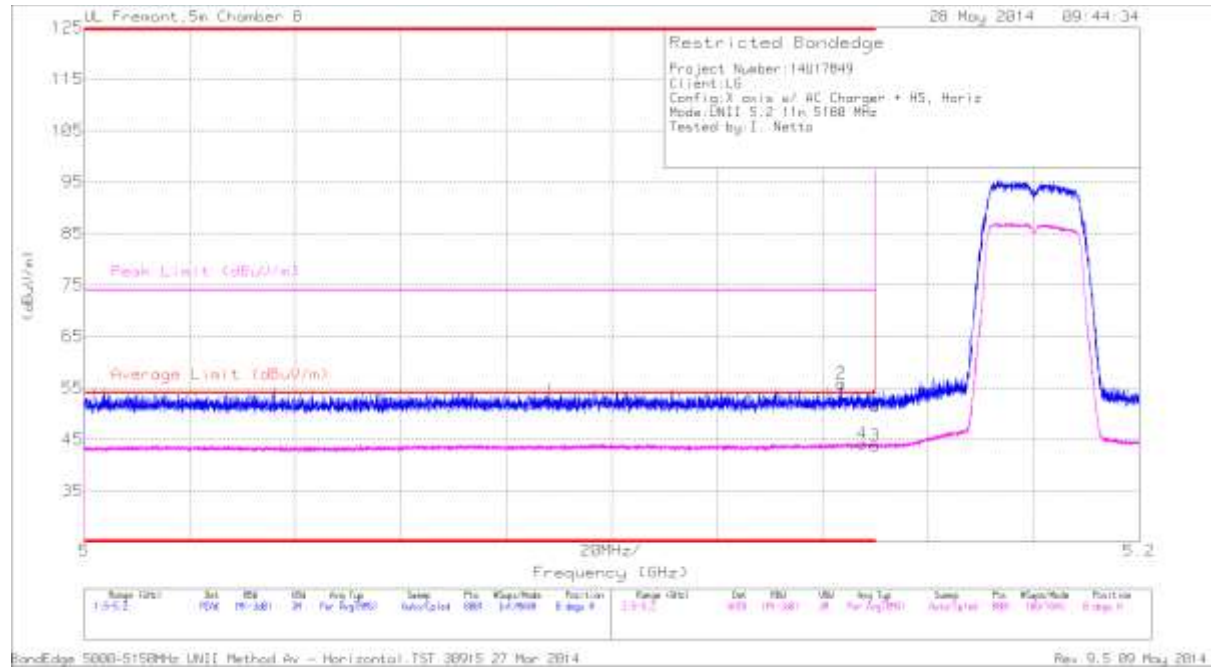
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.902	27.86	AD1	37	-24.1	.2	40.96	-	-	-	-	-	-	359	204	V
9.903	39.89	PK1	37	-24.1	0	52.79	-	-	-	-	68.2	-15.41	359	204	V

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**10.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND  
 RESTRICTED BANDEDGE (LOW CHANNEL)**

**HORIZONTAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.144	41.74	PK	34.3	-20.2	0	55.84	-	-	74	-18.16	0	108	H
4	* 5.148	30	RMS	34.3	-20.3	.2	44.2	54	-9.8	-	-	0	108	H
1	* 5.15	37.4	PK	34.3	-20.3	0	51.4	-	-	74	-22.6	0	108	H
3	* 5.15	29.62	RMS	34.3	-20.3	.2	43.82	54	-10.18	-	-	0	108	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.07	41.02	PK	34.2	-20.2	0	55.02	-	-	74	-18.98	132	161	V
4	* 5.143	29.81	RMS	34.3	-20.2	.2	44.11	54	-9.89	-	-	132	161	V
1	* 5.15	39.83	PK	34.3	-20.3	0	53.83	-	-	74	-20.17	132	161	V
3	* 5.15	29.76	RMS	34.3	-20.3	.2	43.96	54	-10.04	-	-	132	161	V

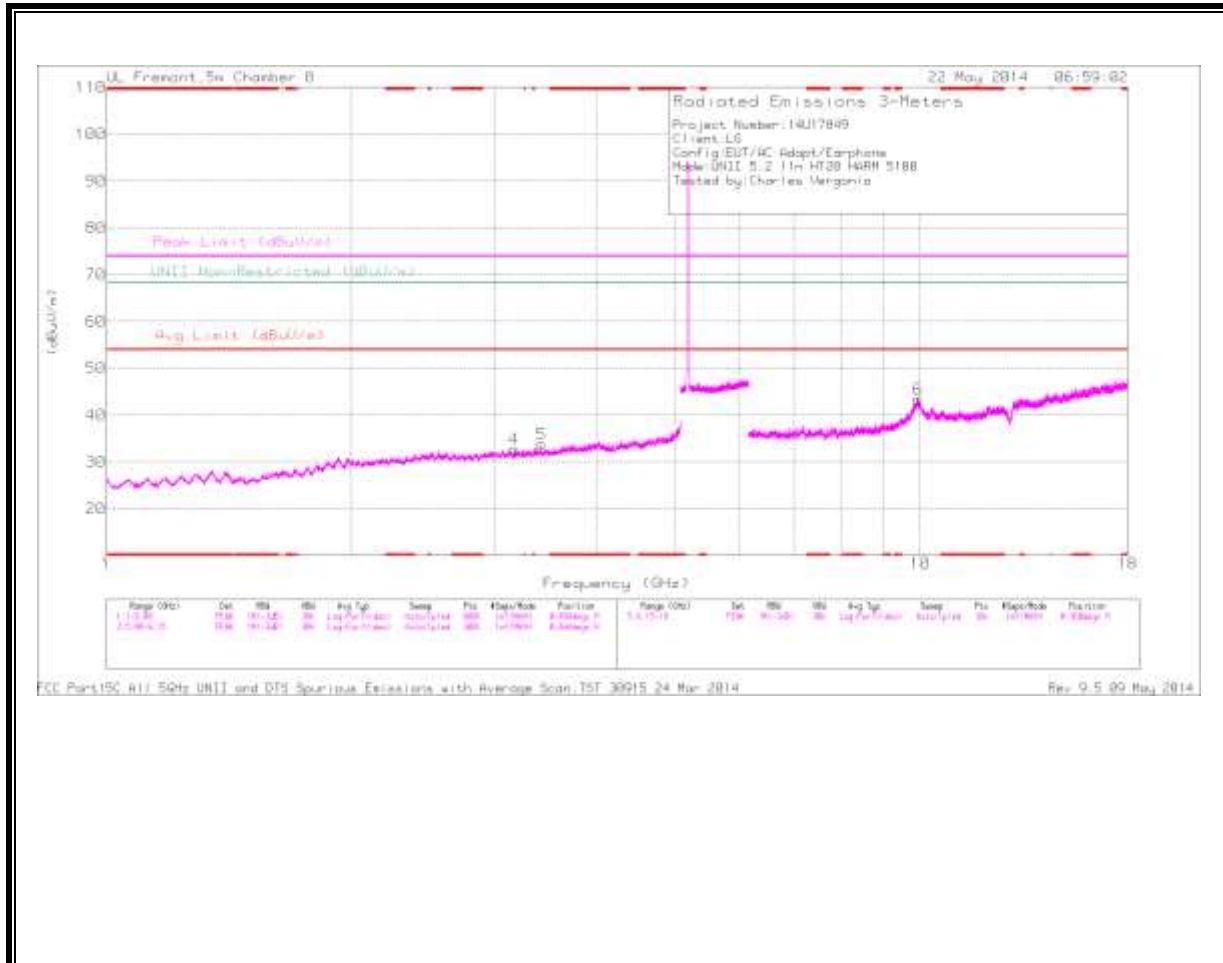
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

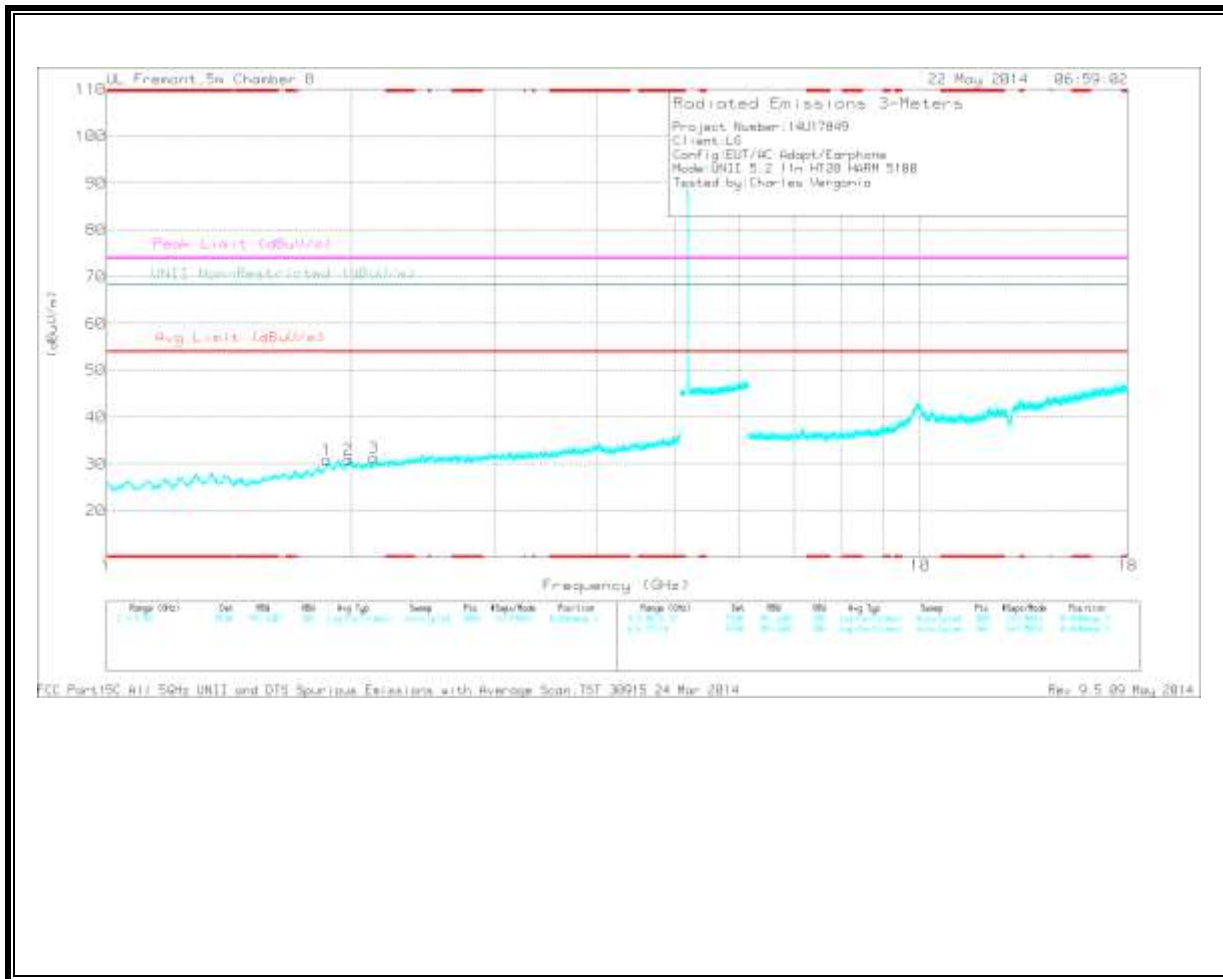
LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.865	33.37	PK	30.8	-33.3	0	30.87	-	-	-	-	68.2	-37.33	0-360	202	V
2	1.982	32.61	PK	31.3	-32.9	0	31.01	-	-	-	-	68.2	-37.19	0-360	202	V
3	2.129	33.12	PK	31.3	-33.1	0	31.32	-	-	-	-	68.2	-36.88	0-360	202	V
4	3.171	31.71	PK	32.8	-31.7	0	32.81	-	-	-	-	68.2	-35.39	0-360	99	H
5	3.426	32.25	PK	32.8	-31.2	0	33.85	-	-	-	-	68.2	-34.35	0-360	99	H
6	9.936	30.32	PK	37	-23.9	0	43.42	-	-	-	-	68.2	-24.78	0-360	99	H

PK - Peak detector

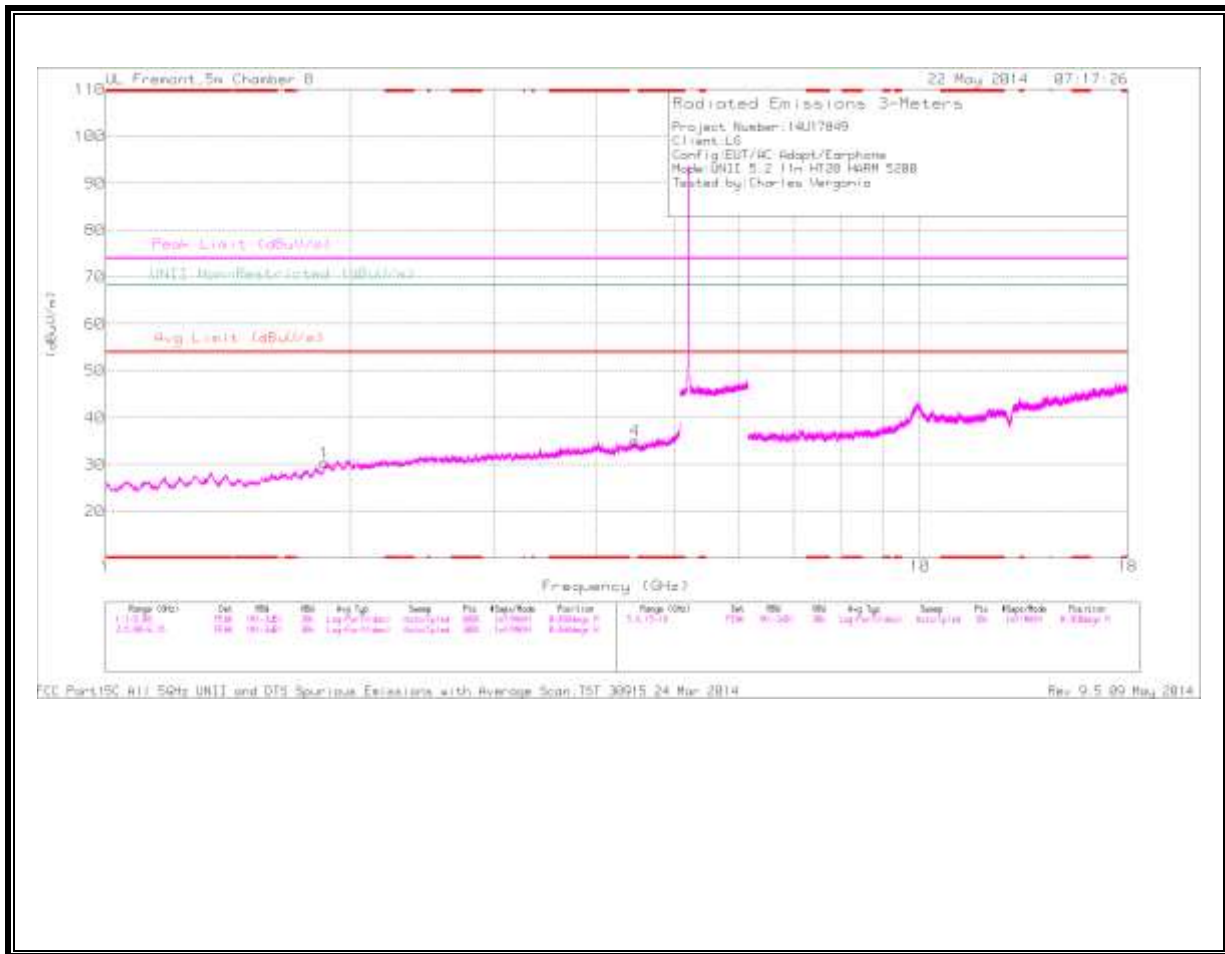
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.937	38.99	PK1	37	-24	0	51.99	-	-	-	-	68.2	-16.21	360	100	H
9.938	27.65	AD1	37	-24	.2	40.85	-	-	-	-	-	-	360	100	H

PK1 - KDB789033 Method: Peak

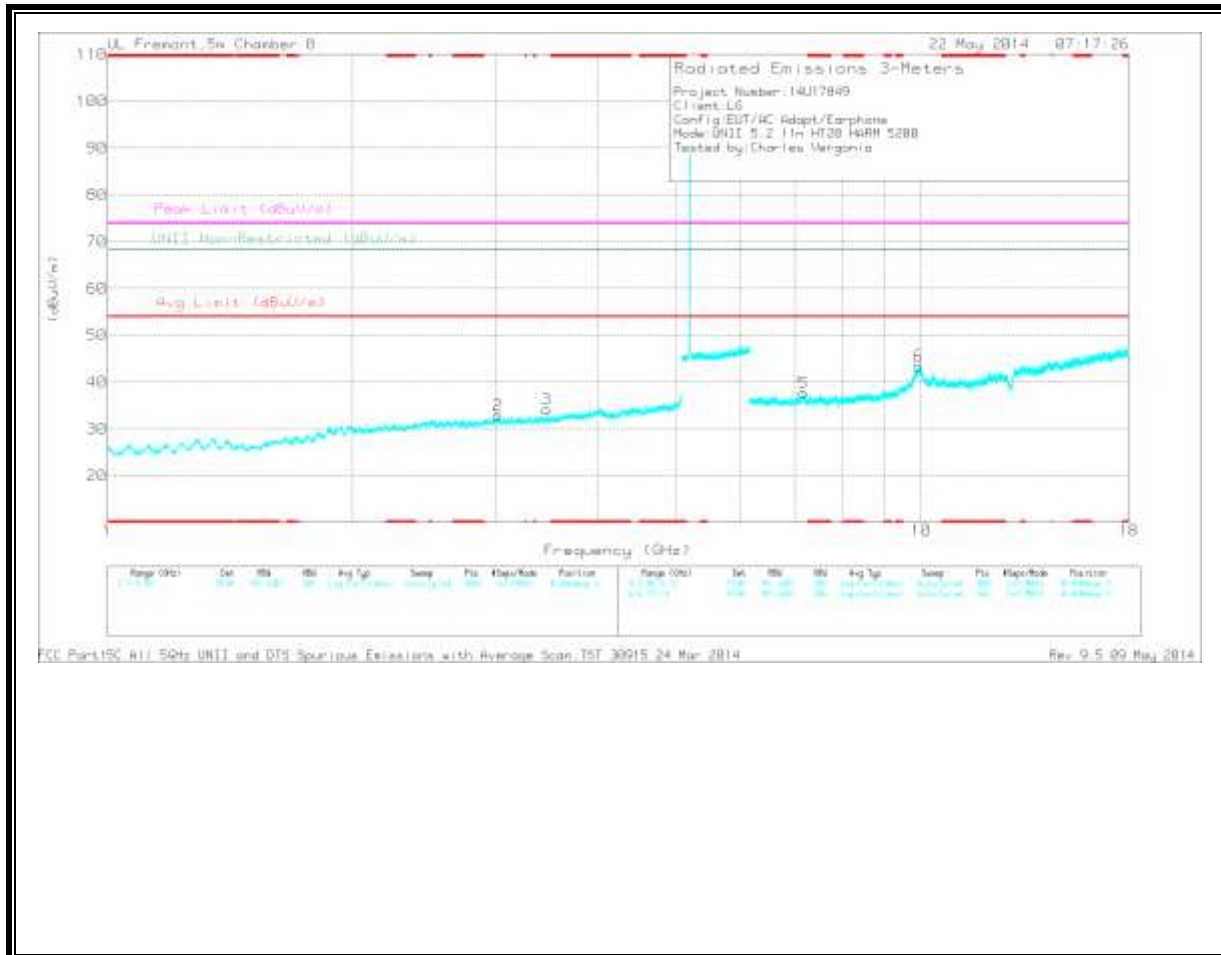
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.857	33.07	PK	30.7	-33.4	0	30.37	-	-	-	-	68.2	-37.83	0-360	99	H
2	3.02	32.07	PK	32.8	-32	0	32.87	-	-	-	-	68.2	-35.33	0-360	99	V
3	3.467	32.66	PK	32.8	-31.3	0	34.16	-	-	-	-	68.2	-34.04	0-360	202	V
4	4.473	30.74	PK	34	-29.6	0	35.14	-	-	-	-	68.2	-33.06	0-360	201	H
5	7.169	28.97	PK	35.6	-26.9	0	37.67	-	-	-	-	68.2	-30.53	0-360	202	V
6	9.921	30.43	PK	37	-24	0	43.43	-	-	-	-	68.2	-24.77	0-360	202	V

PK - Peak detector

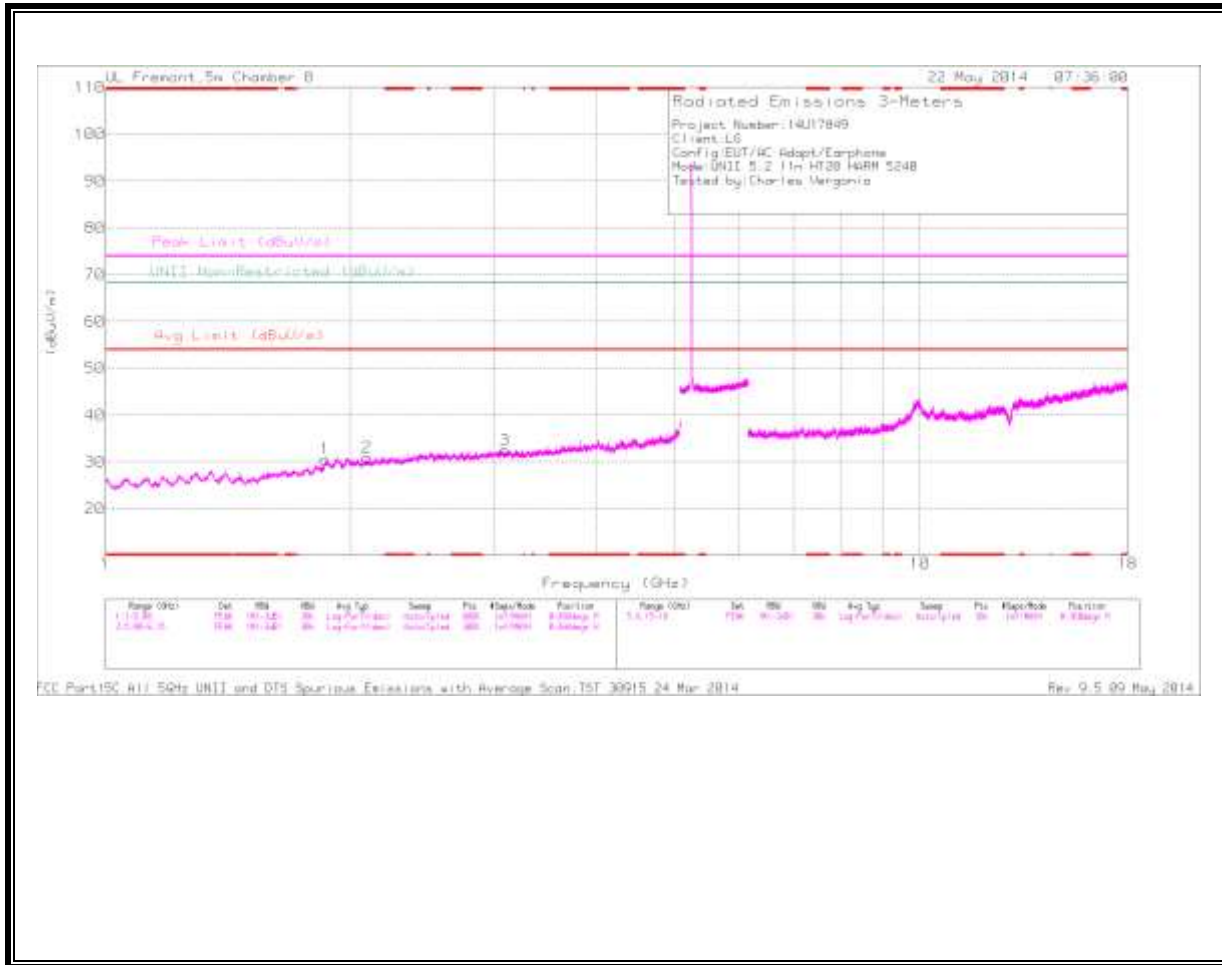
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.92	39.12	PK1	37	-24	0	52.12	-	-	-	-	68.2	-16.08	360	204	V
9.923	27.75	AD1	37	-24	.2	40.95	-	-	-	-	-	-	360	204	V

PK1 - KDB789033 Method: Peak

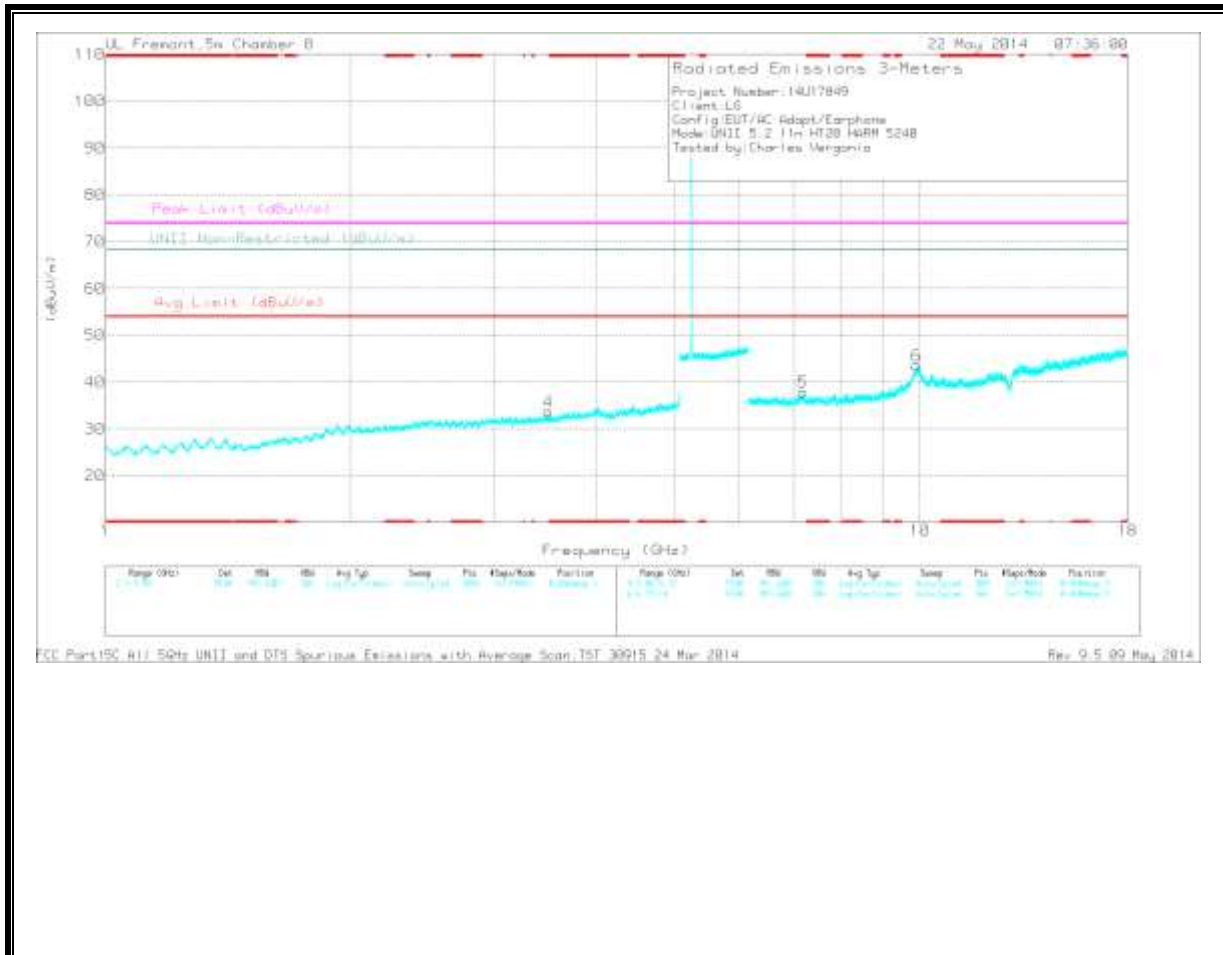
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

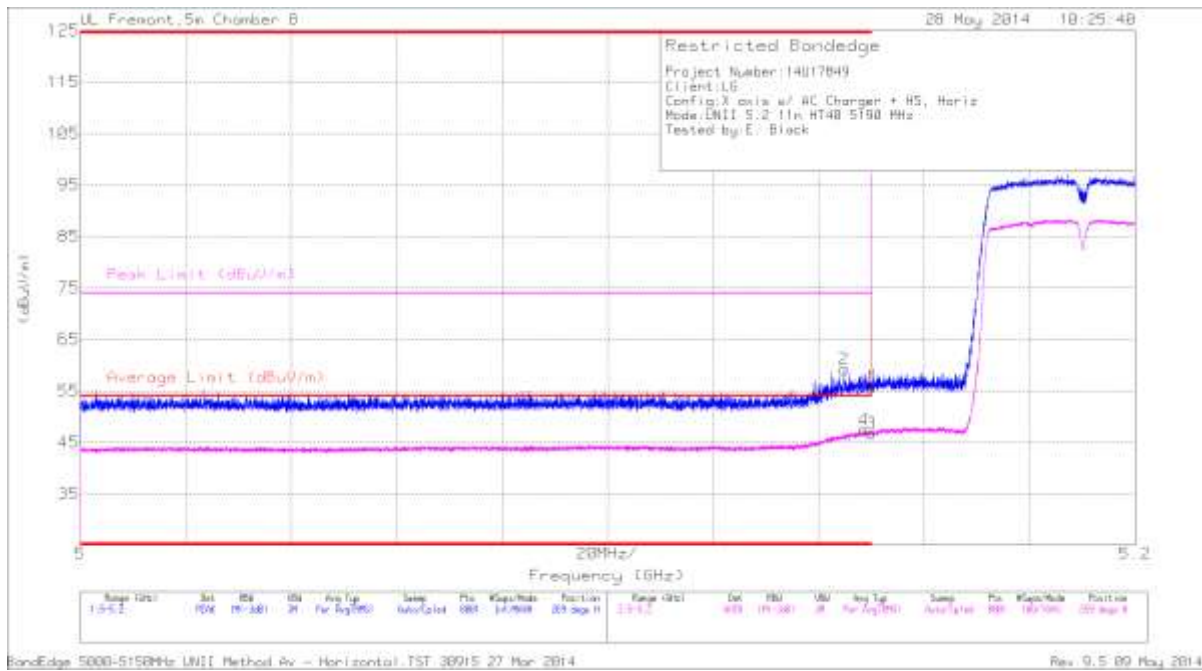
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.86	33.34	PK	30.7	-33.4	0	30.64	54	-23.36	-	-	68.2	-37.56	0-360	202	H
2	2.093	33.3	PK	31.3	-33.7	0	30.9	54	-23.1	-	-	68.2	-37.3	0-360	202	H
3	3.094	31.76	PK	32.9	-32.1	0	32.56	54	-21.44	-	-	68.2	-35.64	0-360	99	H
4	3.494	32.54	PK	32.8	-31.6	0	33.74	54	-20.26	-	-	68.2	-34.46	0-360	202	V
5	7.184	28.79	PK	35.6	-26.5	0	37.89	54	-16.11	-	-	68.2	-30.31	0-360	99	V
6	9.903	30.62	PK	37	-24.1	0	43.52	54	-10.48	-	-	68.2	-24.68	0-360	99	V

PK - Peak detector



**10.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND  
 RESTRICTED BANDEGE (LOW CHANNEL)**

**HORIZONTAL**



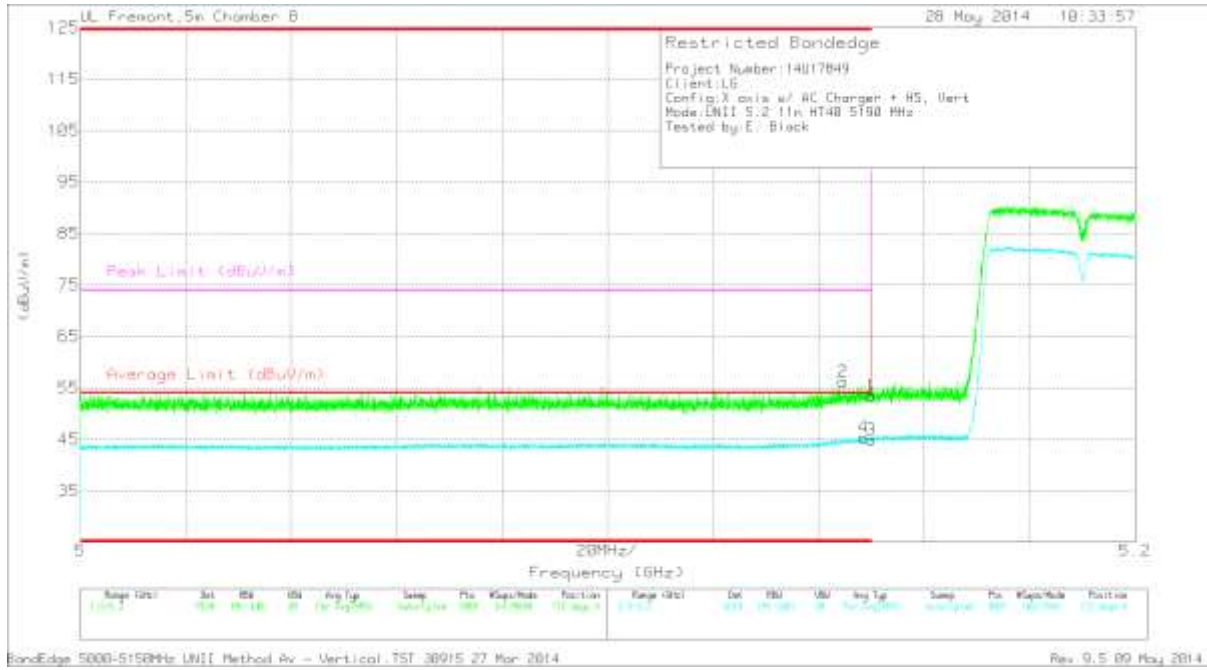
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.145	45.11	PK	34.3	-20.2	0	59.21	-	-	74	-14.79	269	104	H
4	* 5.149	32.92	RMS	34.3	-20.3	.5	47.42	54	-6.58	-	-	269	104	H
1	* 5.15	41.63	PK	34.3	-20.3	0	55.63	-	-	74	-18.37	269	104	H
3	* 5.15	32.18	RMS	34.3	-20.3	.5	46.68	54	-7.32	-	-	269	104	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.145	42.07	PK	34.3	-20.2	0	56.17	-	-	74	-17.83	172	240	V
4	* 5.149	30.88	RMS	34.3	-20.3	.5	45.38	54	-8.62	-	-	172	240	V
1	* 5.15	39.44	PK	34.3	-20.3	0	53.44	-	-	74	-20.56	172	240	V
3	* 5.15	30.43	RMS	34.3	-20.3	.5	44.93	54	-9.07	-	-	172	240	V

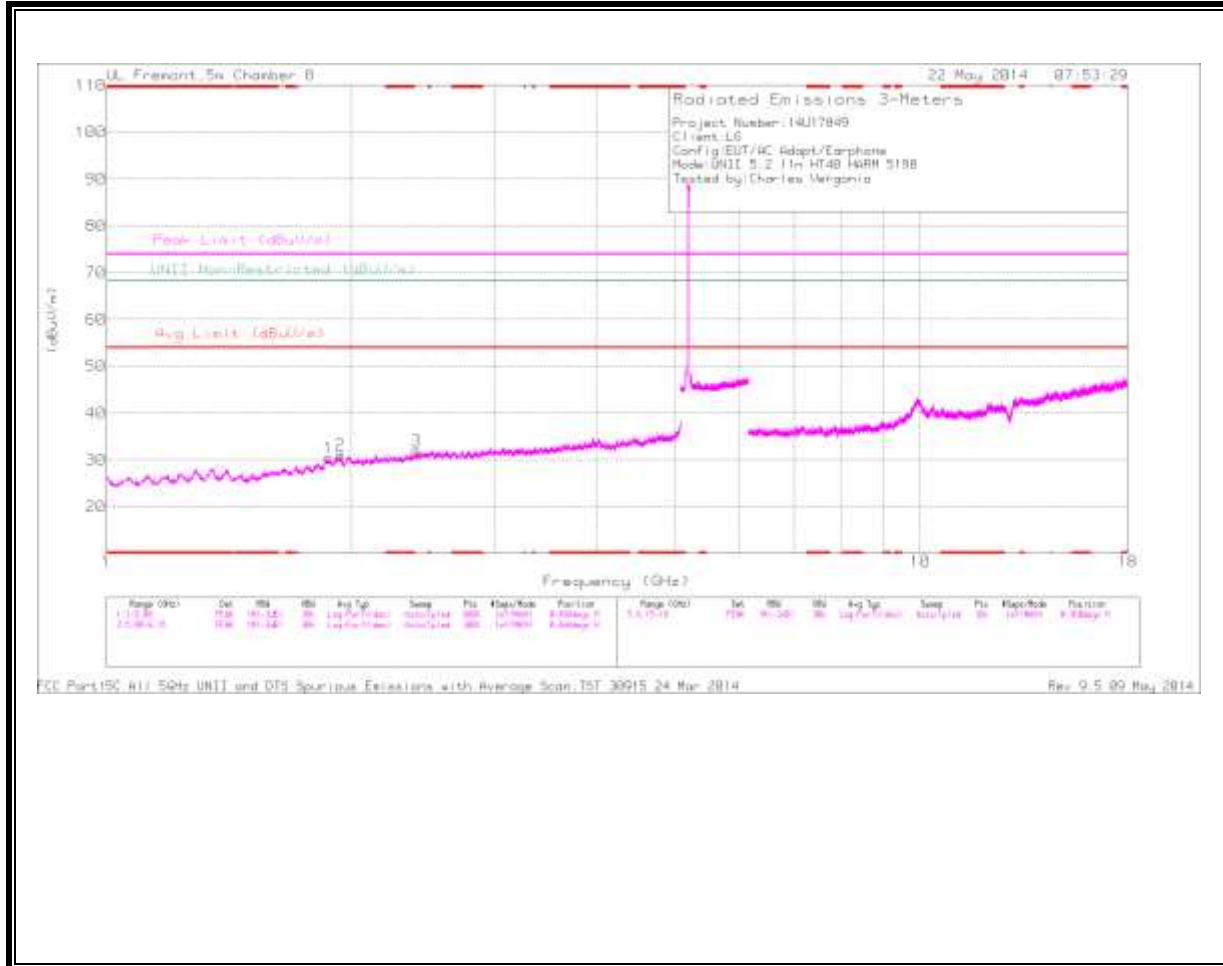
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

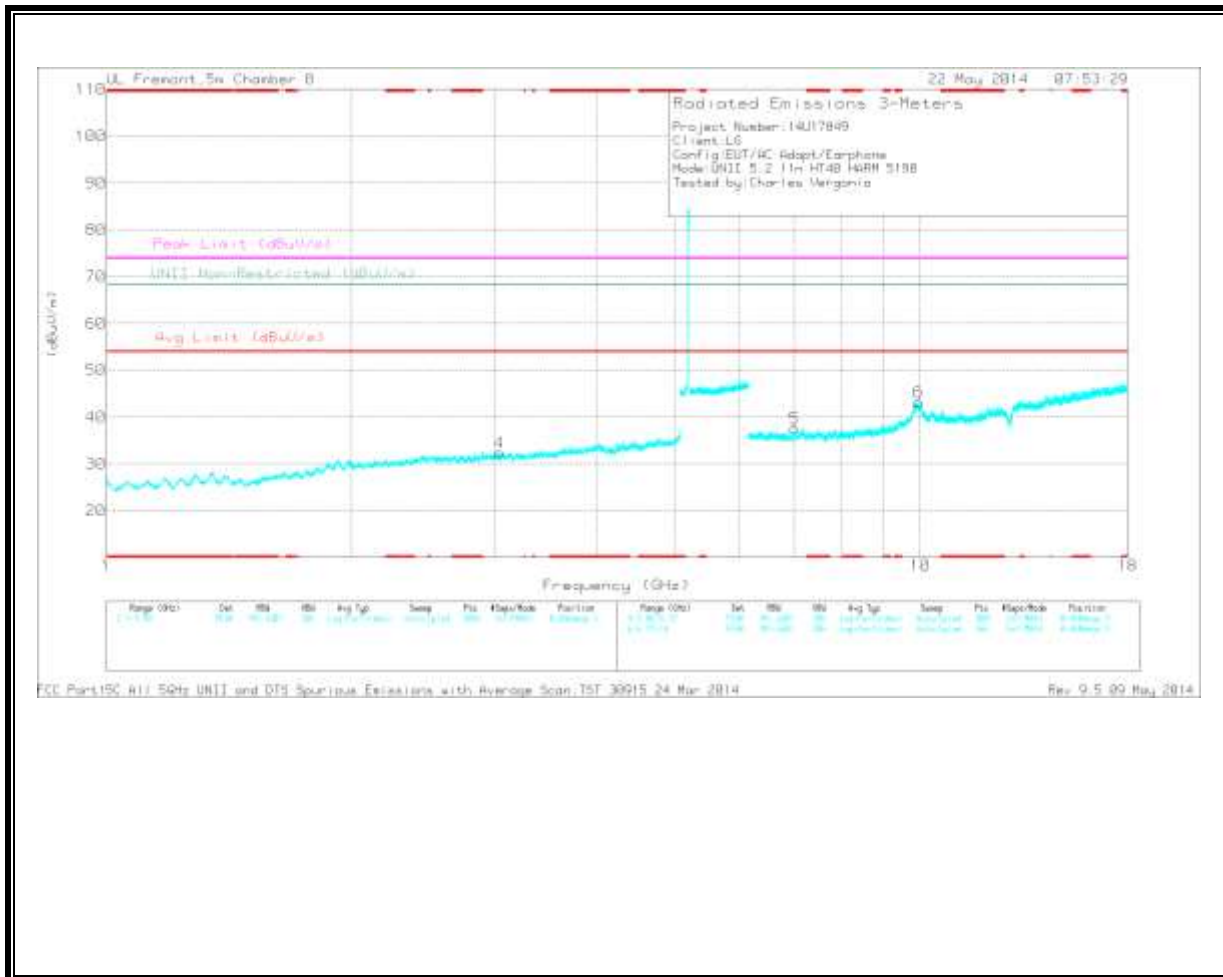
### HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.877	32.69	PK	30.9	-33.1	0	30.49	-	-	-	-	68.2	-37.71	0-360	99	H
2	1.938	32.59	PK	31.2	-32.7	0	31.09	-	-	-	-	68.2	-37.11	0-360	99	H
3	2.405	32.47	PK	32.2	-32.7	0	31.97	-	-	-	-	68.2	-36.23	0-360	202	H
4	3.041	31.78	PK	32.8	-32.2	0	32.38	-	-	-	-	68.2	-35.82	0-360	99	V
5	7.009	29.13	PK	35.6	-27.1	0	37.63	-	-	-	-	68.2	-30.57	0-360	202	V
6	9.967	30.23	PK	37	-24	0	43.23	-	-	-	-	68.2	-24.97	0-360	99	V

PK - Peak detector

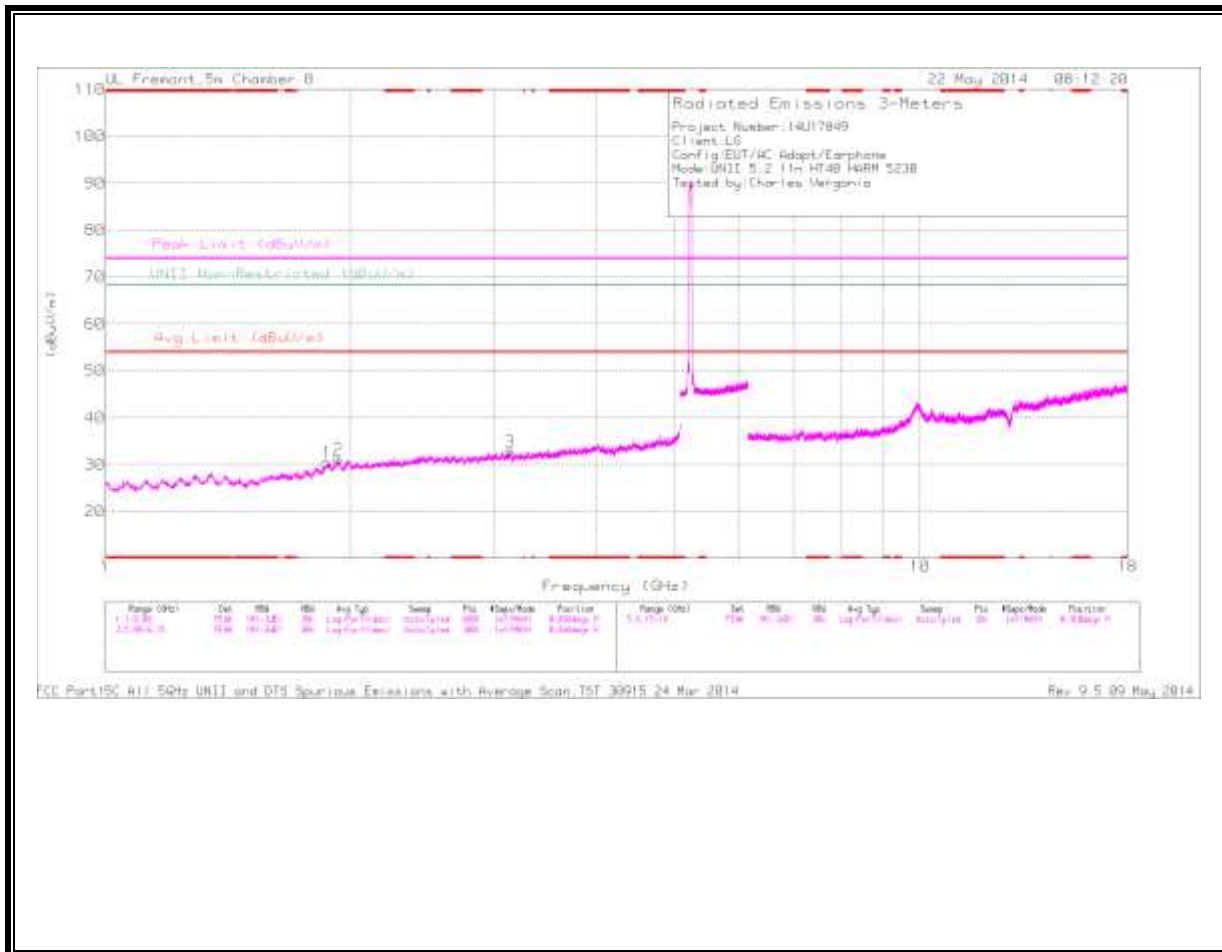
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.968	39.32	PK1	37	-24	0	52.32	-	-	-	-	68.2	-15.88	359	100	V
9.969	27.22	AD1	37	-24	.5	40.62	-	-	-	-	-	-	359	100	V

PK1 - KDB789033 Method: Peak

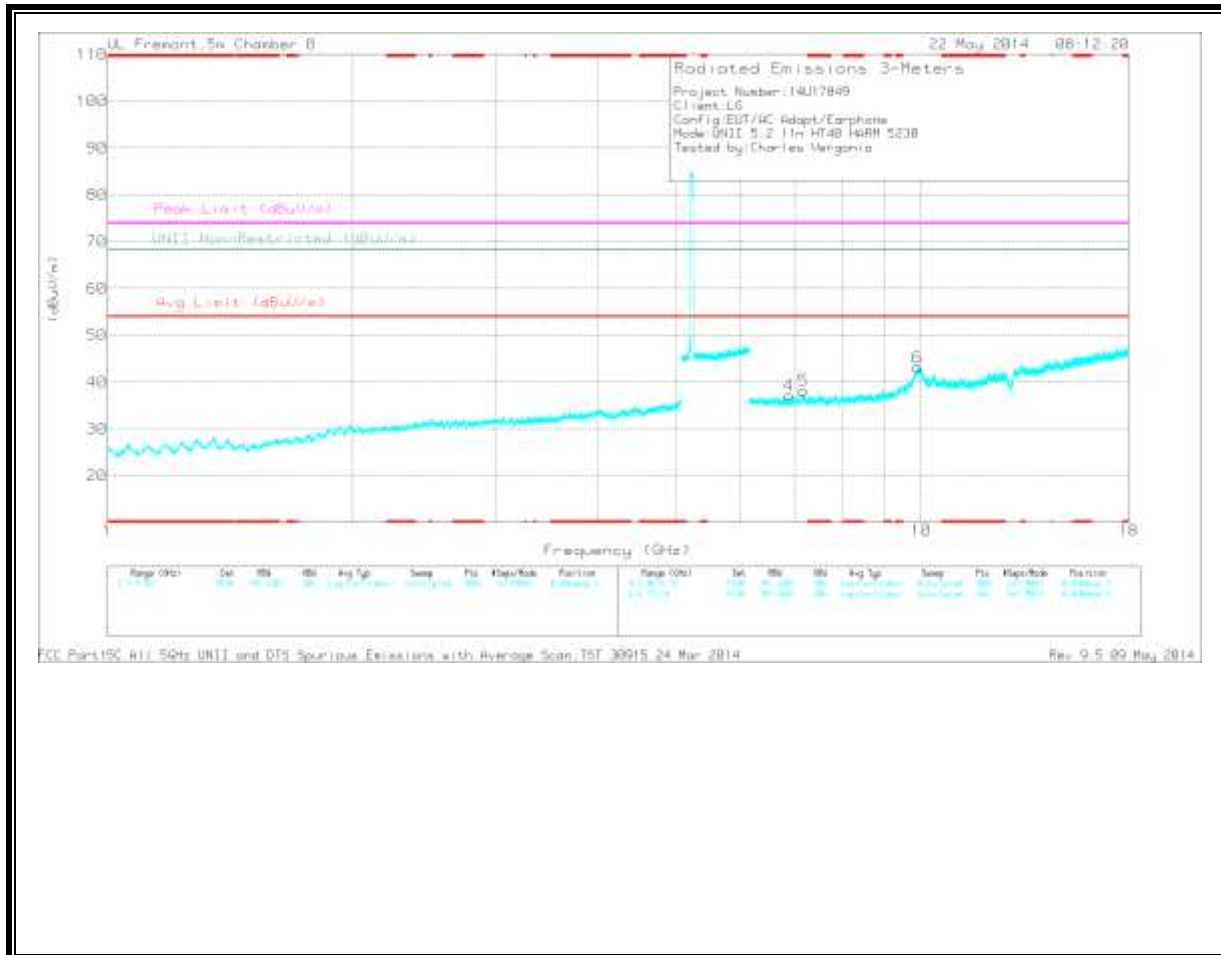
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

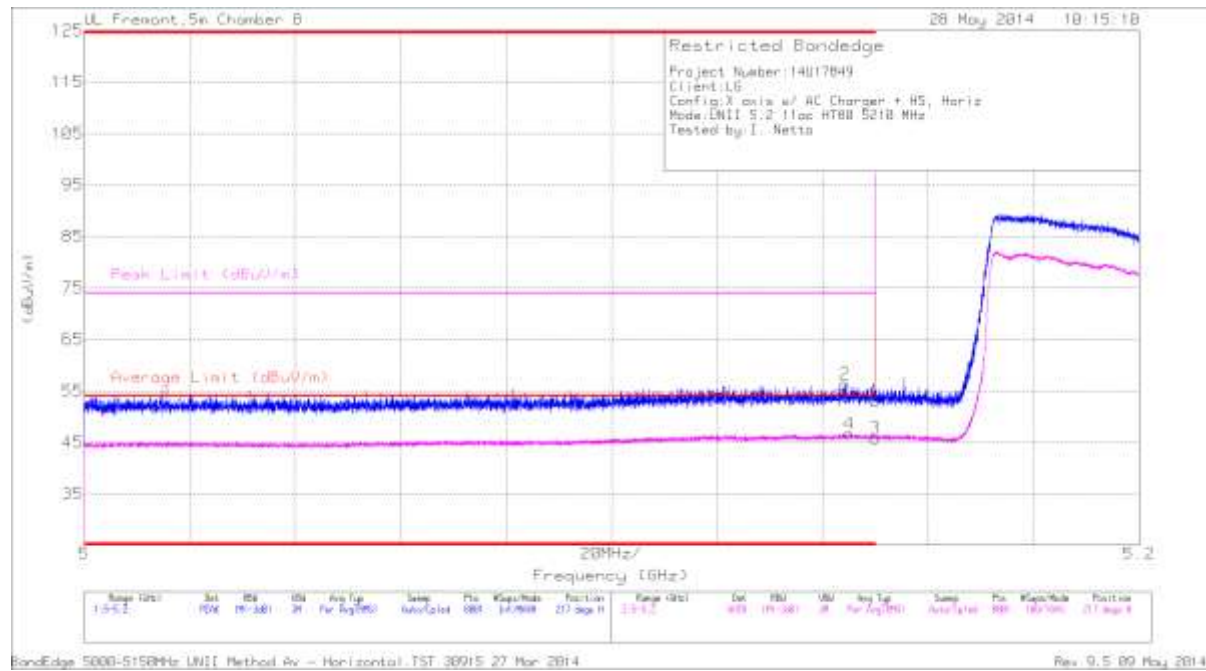
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.868	32.99	PK	30.8	-33.3	0	30.49	54	-23.51	-	-	68.2	-37.71	0-360	201	H
2	1.932	32.74	PK	31.2	-32.8	0	31.14	54	-22.86	-	-	68.2	-37.06	0-360	99	H
3	3.137	31.63	PK	32.8	-31.6	0	32.83	54	-21.17	-	-	68.2	-35.37	0-360	99	H
4	6.884	29.66	PK	35.6	-28.1	0	37.16	54	-16.84	-	-	68.2	-31.04	0-360	99	V
5	7.173	29.38	PK	35.6	-26.8	0	38.18	54	-15.82	-	-	68.2	-30.02	0-360	99	V
6	9.89	30.31	PK	37	-24.1	0	43.21	54	-10.79	-	-	68.2	-24.99	0-360	99	V

PK - Peak detector



**10.1.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.2 GHz BAND  
 RESTRICTED BANDEGE (LOW CHANNEL)**

**HORIZONTAL**



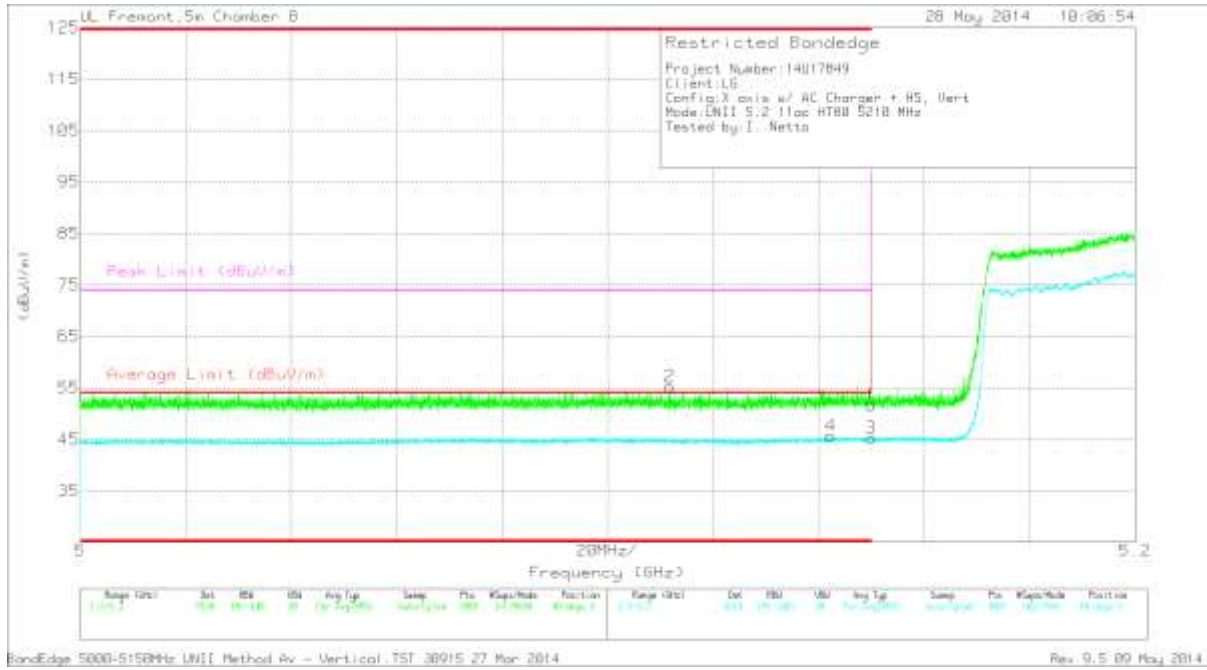
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.144	42.19	PK	34.3	-20.2	0	56.29	-	-	74	-17.71	217	300	H
4	* 5.145	31.03	RMS	34.3	-20.2	0.85	46.63	54	-7.37	-	-	217	300	H
1	* 5.15	39.08	PK	34.3	-20.3	0	53.08	-	-	74	-20.92	217	300	H
3	* 5.15	30.33	RMS	34.3	-20.3	0.85	45.83	54	-8.17	-	-	217	300	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.112	41.15	PK	34.3	-20.2	0	55.25	-	-	74	-18.75	48	175	V
4	* 5.142	30.02	RMS	34.3	-20.2	0.85	45.62	54	-8.38	-	-	48	175	V
1	* 5.15	37.67	PK	34.3	-20.3	0	51.67	-	-	74	-22.33	48	175	V
3	* 5.15	29.71	RMS	34.3	-20.3	0.85	45.21	54	-8.79	-	-	48	175	V

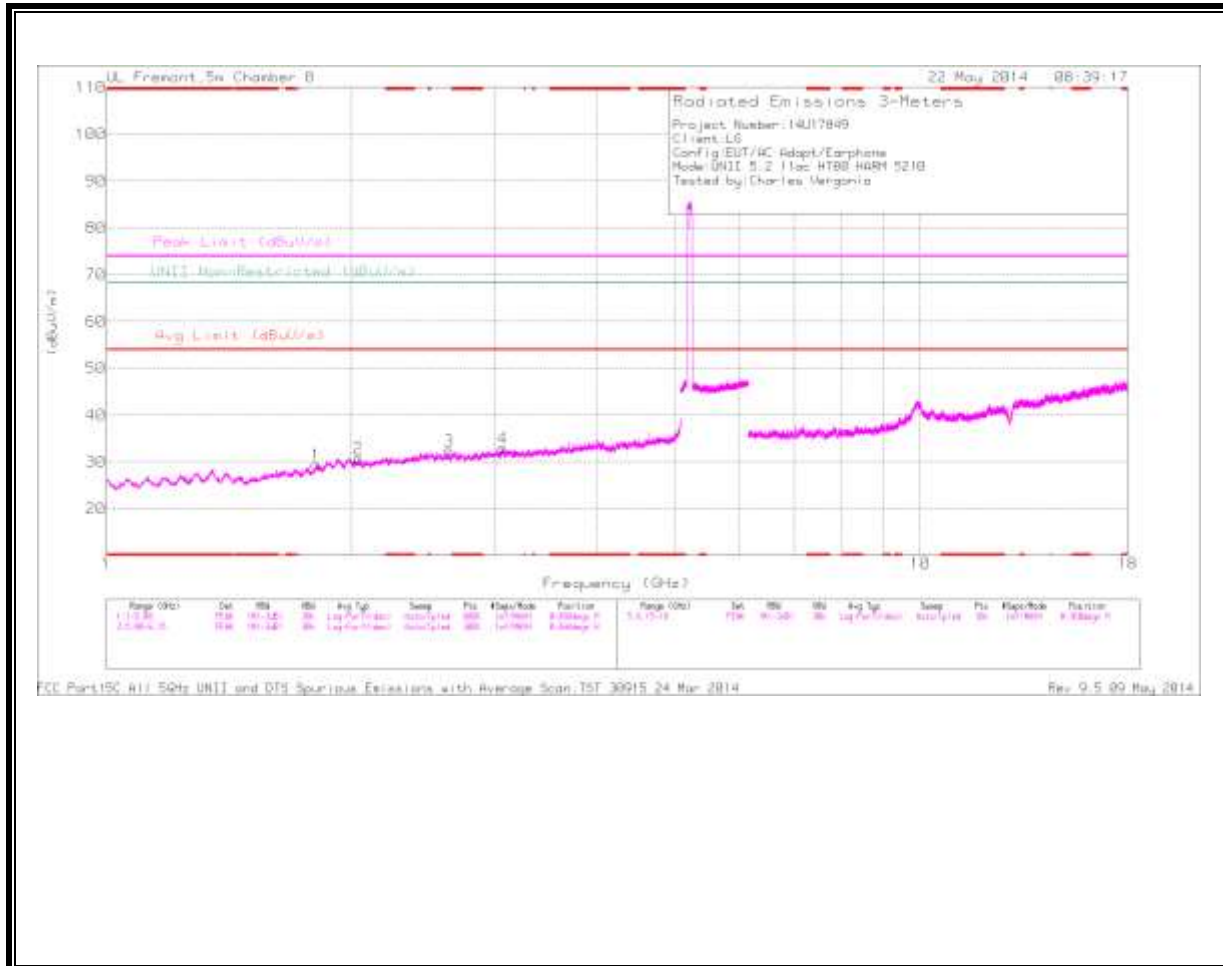
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

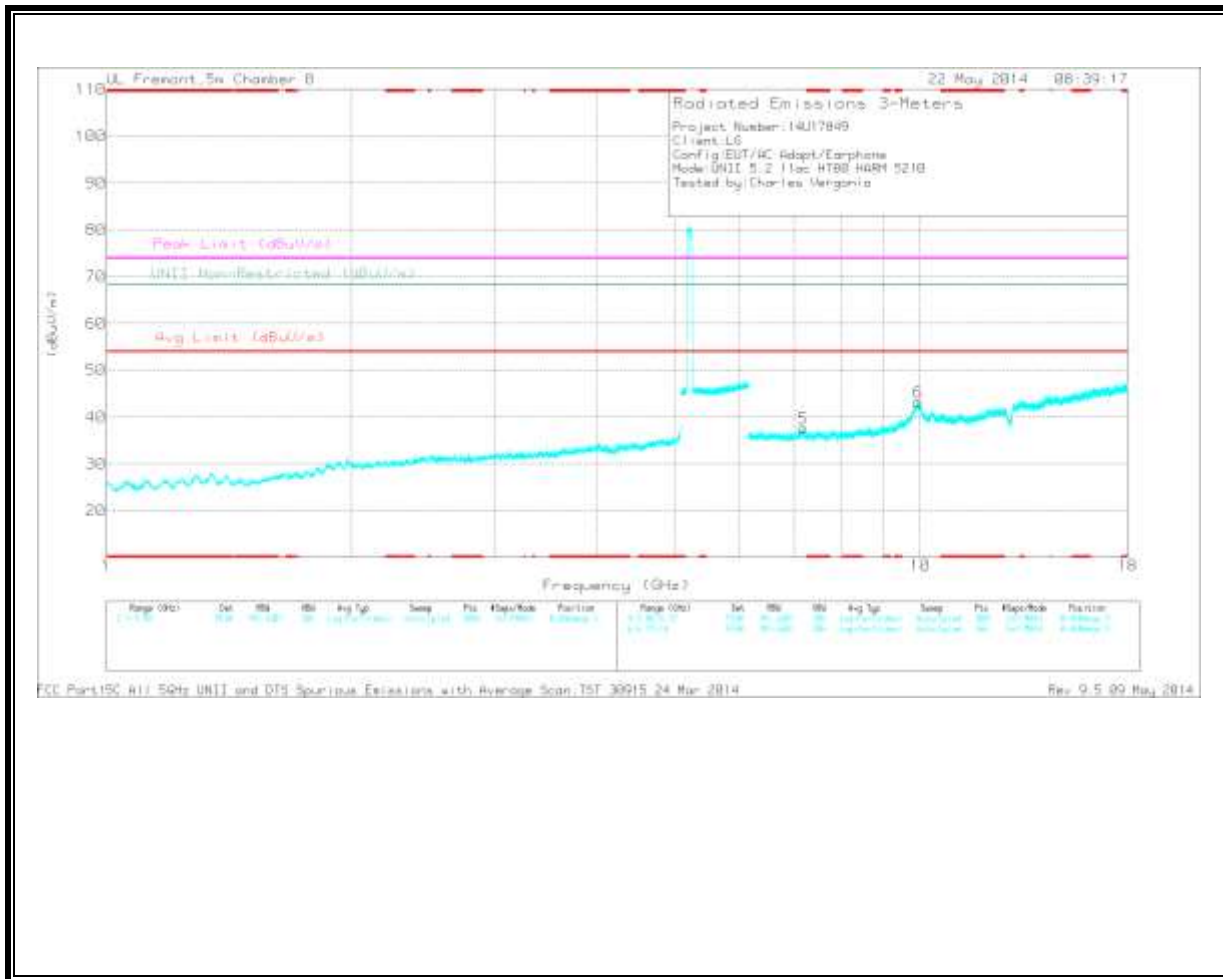
### HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.811	33.05	PK	30.3	-33.9	0	29.45	-	-	-	-	68.2	-38.75	0-360	202	H
2	2.041	33	PK	31.3	-33.6	0	30.7	-	-	-	-	68.2	-37.5	0-360	99	H
3	2.636	32.39	PK	32.4	-32.4	0	32.39	-	-	-	-	68.2	-35.81	0-360	202	H
4	3.07	32.21	PK	32.8	-32.1	0	32.91	-	-	-	-	68.2	-35.29	0-360	202	H
5	7.19	28.61	PK	35.5	-26.5	0	37.61	-	-	-	-	68.2	-30.59	0-360	99	V
6	9.937	30.05	PK	37	-23.9	0	43.15	-	-	-	-	68.2	-25.05	0-360	202	V

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.935	38.94	PK1	37	-23.9	0	52.04	-	-	-	-	68.2	-16.16	359	204	V
9.935	27.68	AD1	37	-23.9	.85	41.68	-	-	-	-	-	-	359	204	V

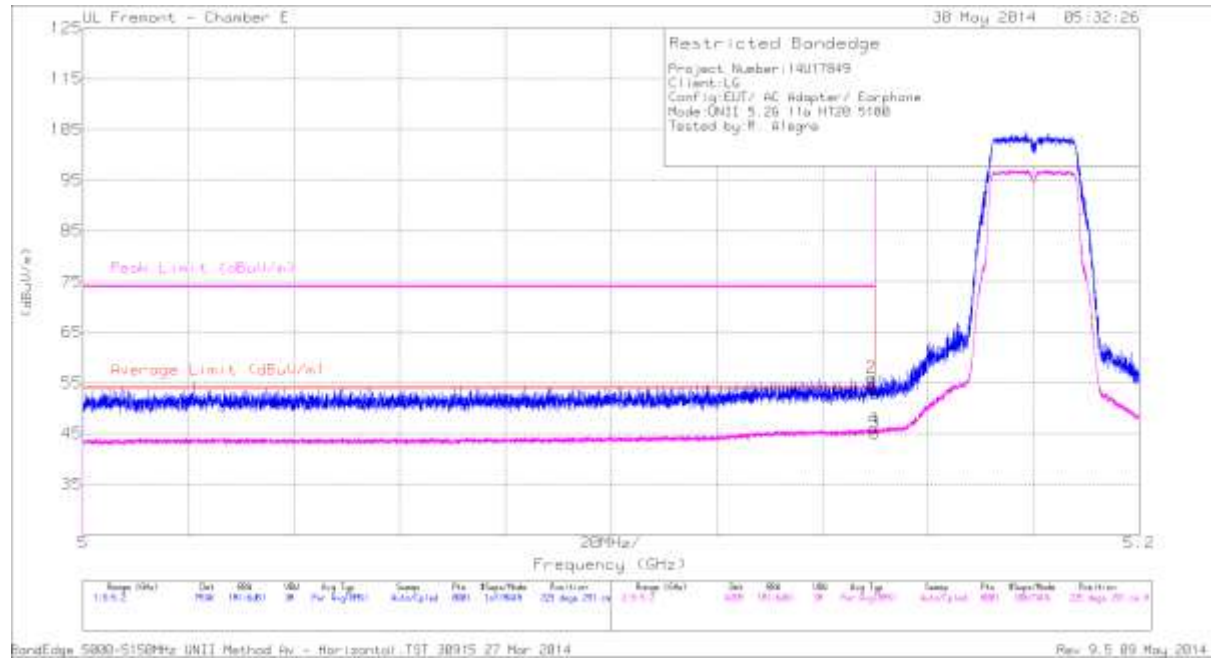
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH WPC BACK COVER AND CARGER**

*RESTRICTED BANDEGE (LOW CHANNEL)*

HORIZONTAL



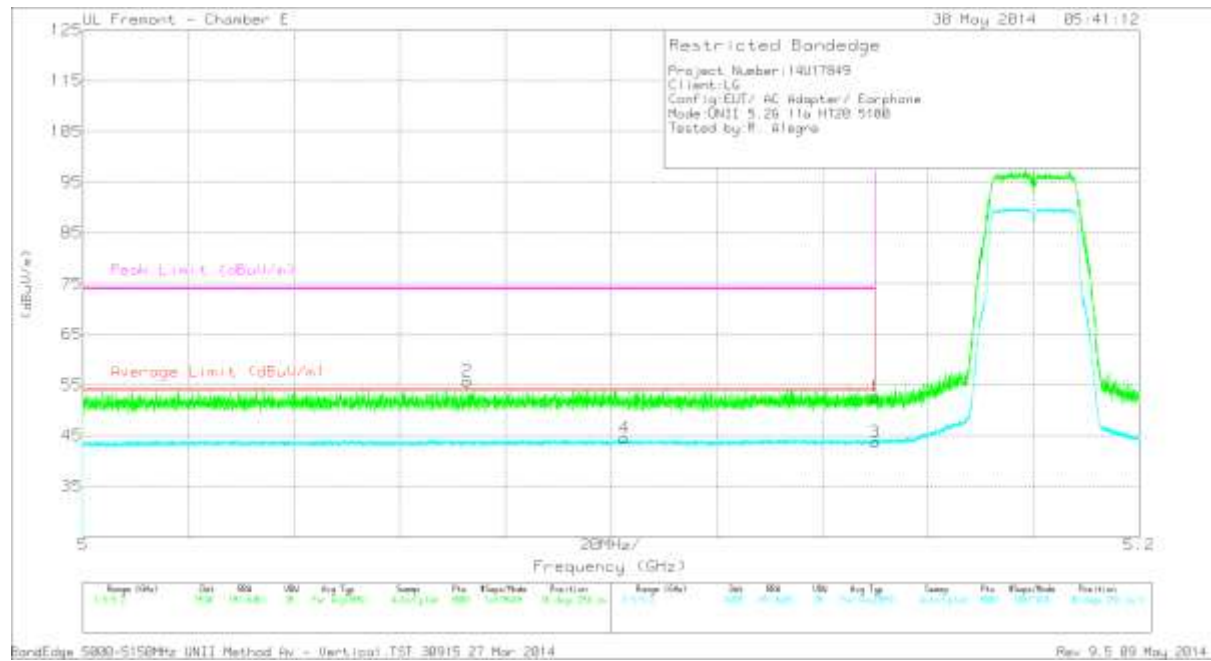
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	40.15	PK	34.2	-21.5	0	52.85	-	-	74	-21.15	225	291	H
2	* 5.149	43.28	PK	34.2	-21.5	0	55.98	-	-	74	-18.02	225	291	H
3	* 5.15	32.24	RMS	34.2	-21.5	.2	45.14	54	-8.86	-	-	225	291	H
4	* 5.15	33.05	RMS	34.2	-21.5	.2	45.95	54	-8.05	-	-	225	291	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.91	PK	34.2	-21.5	0	52.61	-	-	74	-21.39	36	256	V
2	* 5.073	43.31	PK	34.1	-21.7	0	55.71	-	-	74	-18.29	36	256	V
3	* 5.15	30.78	RMS	34.2	-21.5	.2	43.68	54	-10.32	-	-	36	256	V
4	* 5.103	31.63	RMS	34.2	-21.6	.2	44.43	54	-9.57	-	-	36	256	V

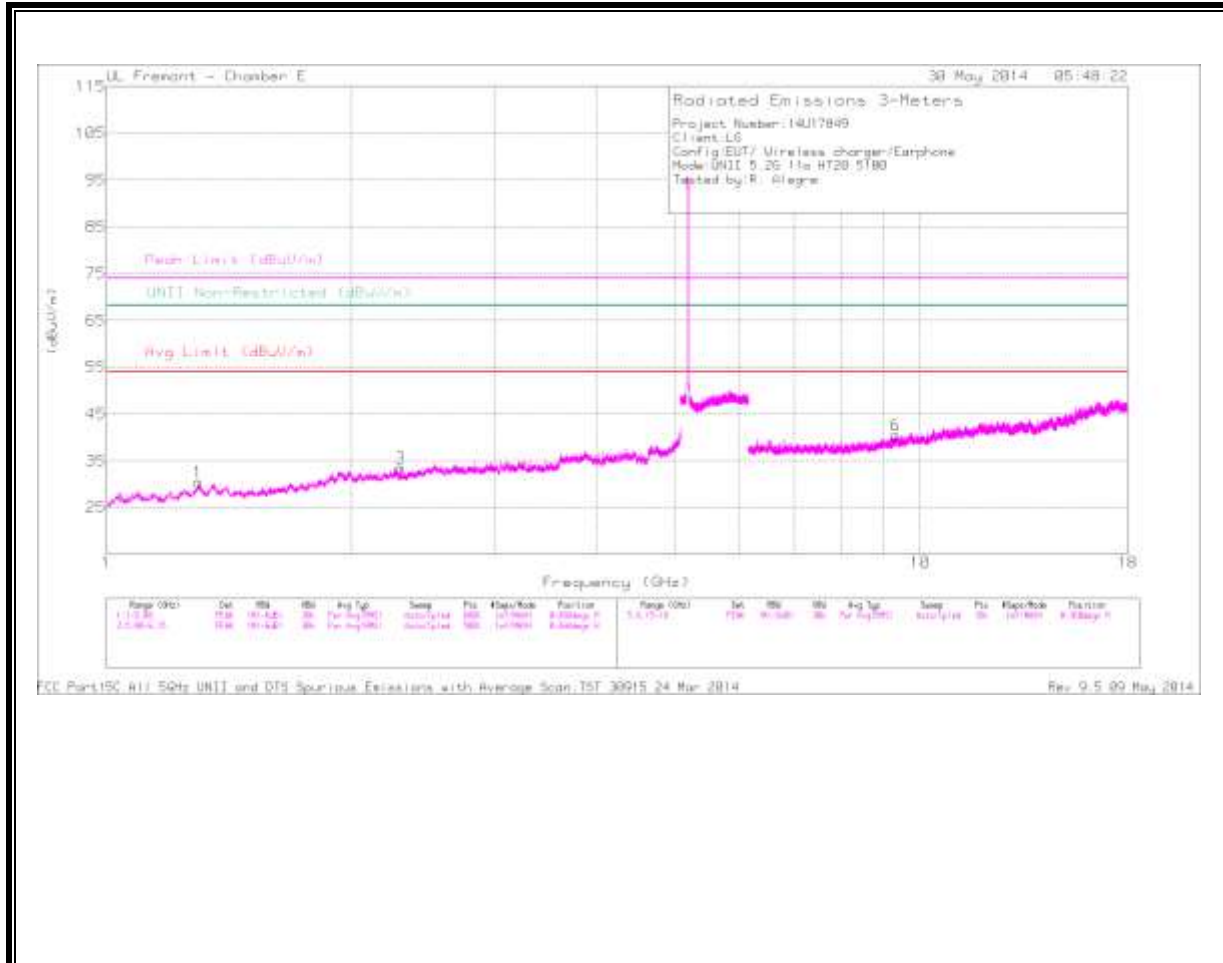
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS WITH WPC BACK COVER AND CHARGER

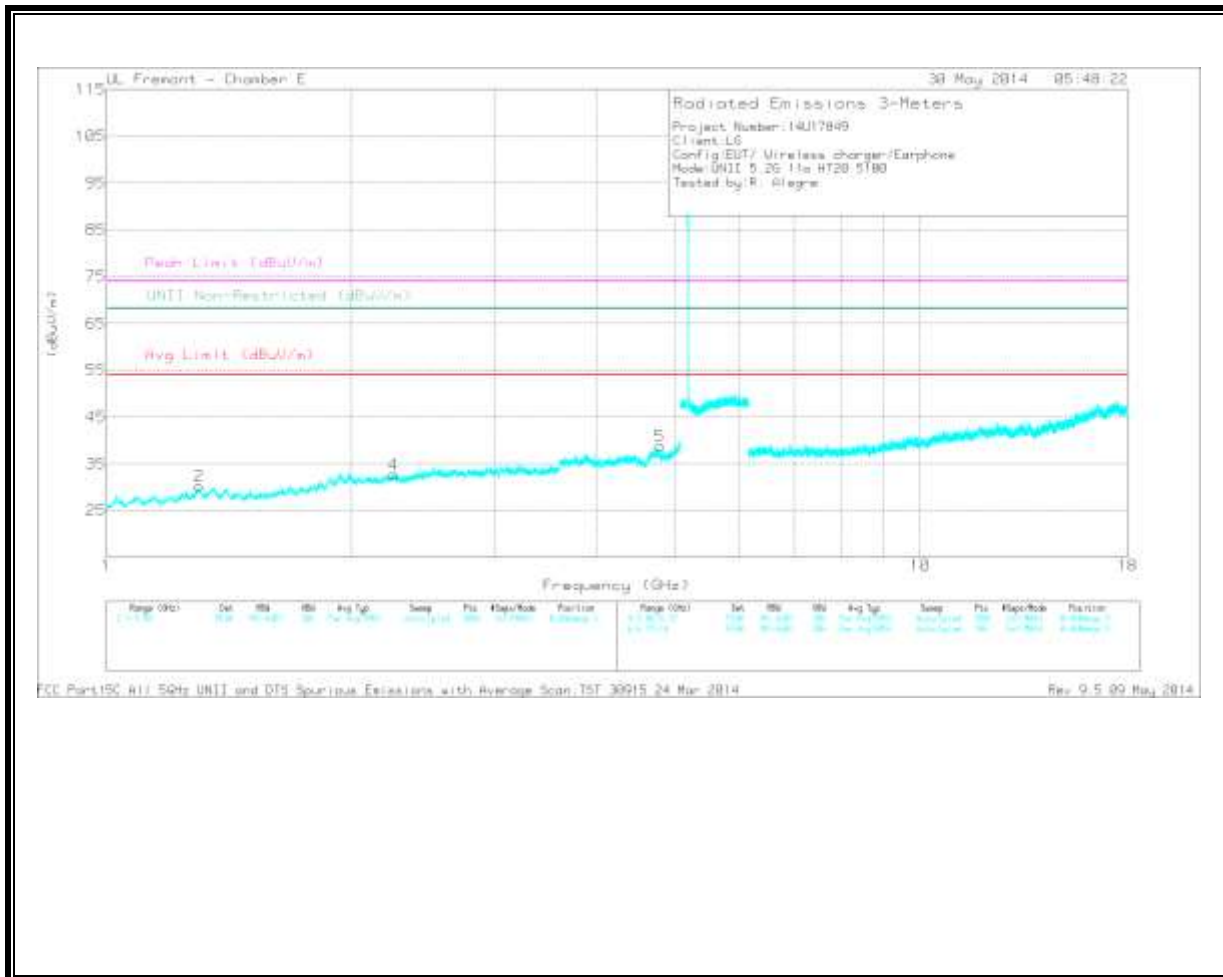
LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.295	35.75	PK	28.9	-34.2	0	30.45	-	-	74	-43.55	-	-	0-360	200	H
3	* 2.296	35.18	PK	31.5	-33.2	0	33.48	-	-	74	-40.52	-	-	0-360	200	H
2	* 1.301	35.31	PK	29	-34.1	0	30.21	-	-	74	-43.79	-	-	0-360	200	V
4	* 2.253	33.77	PK	31.4	-32.5	0	32.67	-	-	74	-41.33	-	-	0-360	200	V
5	* 4.785	34.96	PK	34.1	-30.2	0	38.86	-	-	74	-35.14	-	-	0-360	200	V
6	* 9.335	28.99	PK	36.8	-25.3	0	40.49	-	-	74	-33.51	-	-	0-360	199	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.297	43.24	PK1	31.5	-33.2	0	41.54	-	-	74	-32.46	-	-	0	199	H
* 1.294	43.65	PK1	28.9	-34.2	0	38.35	-	-	74	-35.65	-	-	0	199	H
* 4.784	40.65	PK1	34.1	-30.2	0	44.55	-	-	74	-29.45	-	-	0	199	V
* 2.255	42.24	PK1	31.4	-32.5	0	41.14	-	-	74	-32.86	-	-	0	199	V
* 1.301	43.46	PK1	29	-34.1	0	38.36	-	-	74	-35.64	-	-	0	199	V
* 9.334	36.55	PK1	36.8	-25.3	0	48.05	-	-	74	-25.95	-	-	0	199	H
* 9.336	25.98	AD1	36.8	-25.3	.2	37.68	54	-16.32	-	-	-	-	0	199	H

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

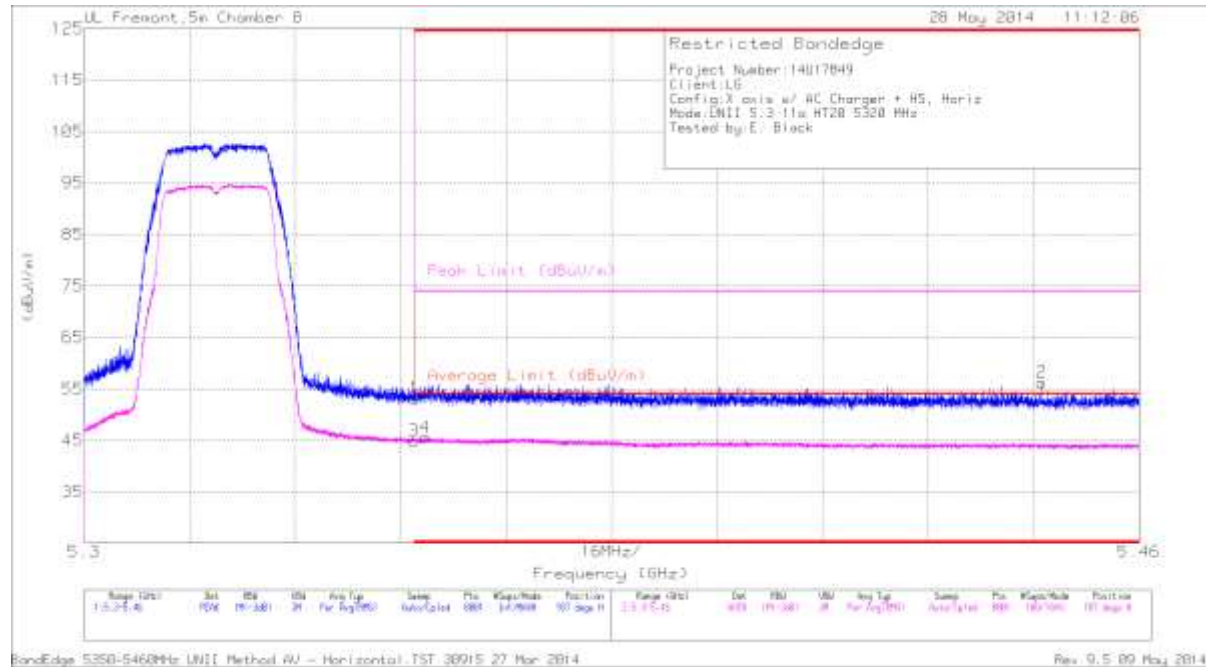
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

## 10.2. 5.3 GHz

### 10.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL



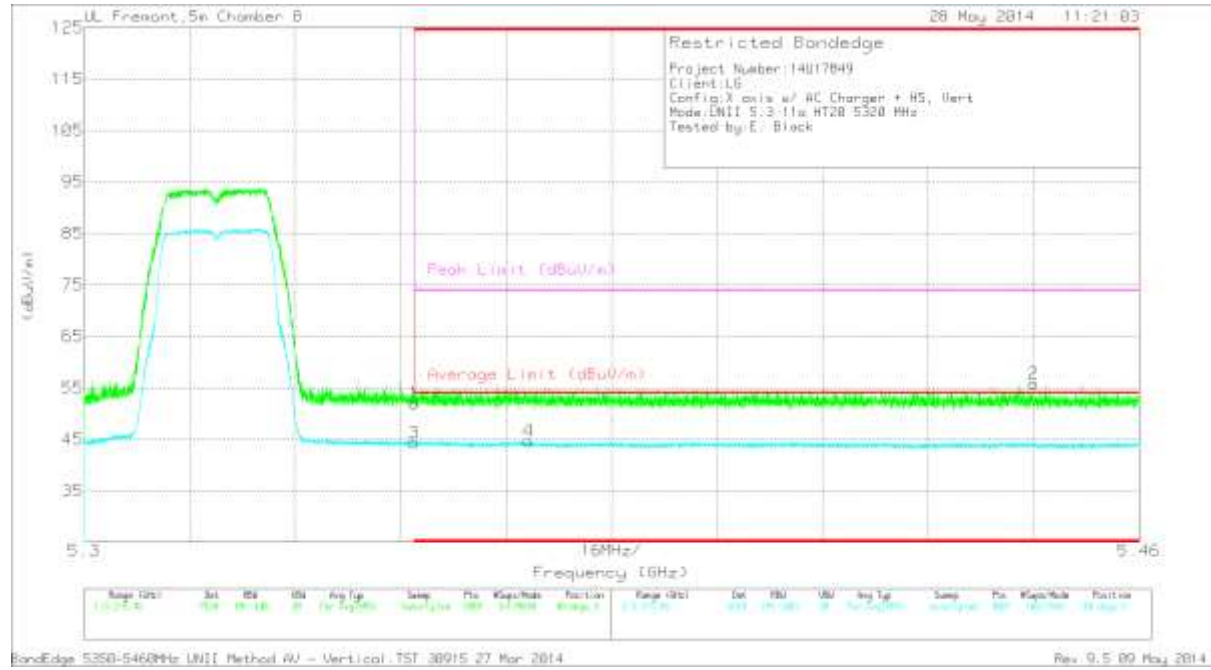
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.59	PK	34.5	-19.9	0	53.19	-	-	74	-20.81	187	147	H
3	* 5.35	30.08	RMS	34.5	-19.9	.2	44.88	54	-9.12	-	-	187	147	H
4	* 5.352	30.83	RMS	34.5	-20	.2	45.53	54	-8.47	-	-	187	147	H
2	* 5.445	41.75	PK	34.5	-20	0	56.25	-	-	74	-17.75	187	147	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.43	PK	34.5	-19.9	0	52.03	-	-	74	-21.97	40	201	V
3	* 5.35	29.53	RMS	34.5	-19.9	.2	44.33	54	-9.67	-	-	40	201	V
4	* 5.367	29.92	RMS	34.5	-19.9	.2	44.72	54	-9.28	-	-	40	201	V
2	* 5.444	41.33	PK	34.5	-20	0	55.83	-	-	74	-18.17	40	201	V

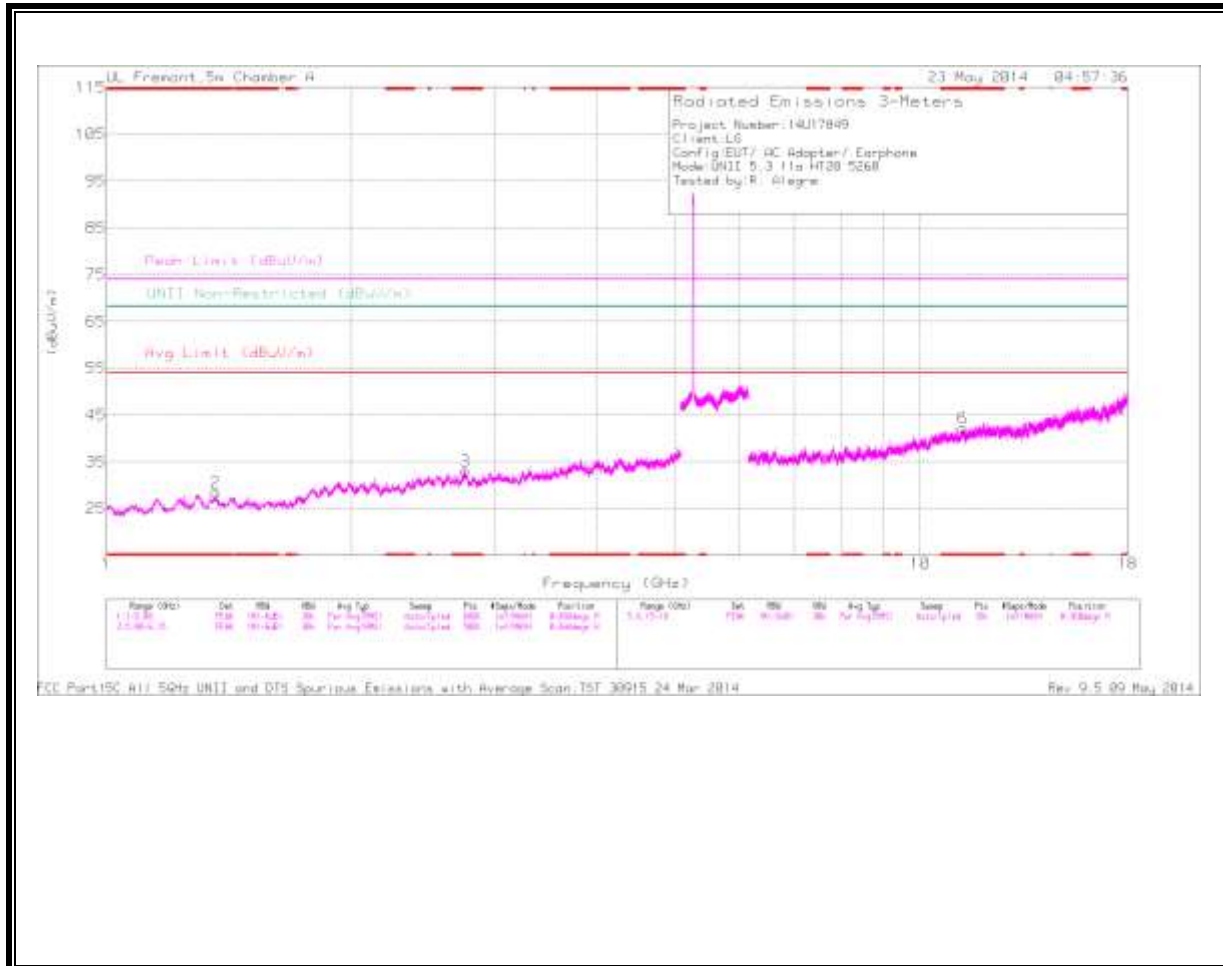
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

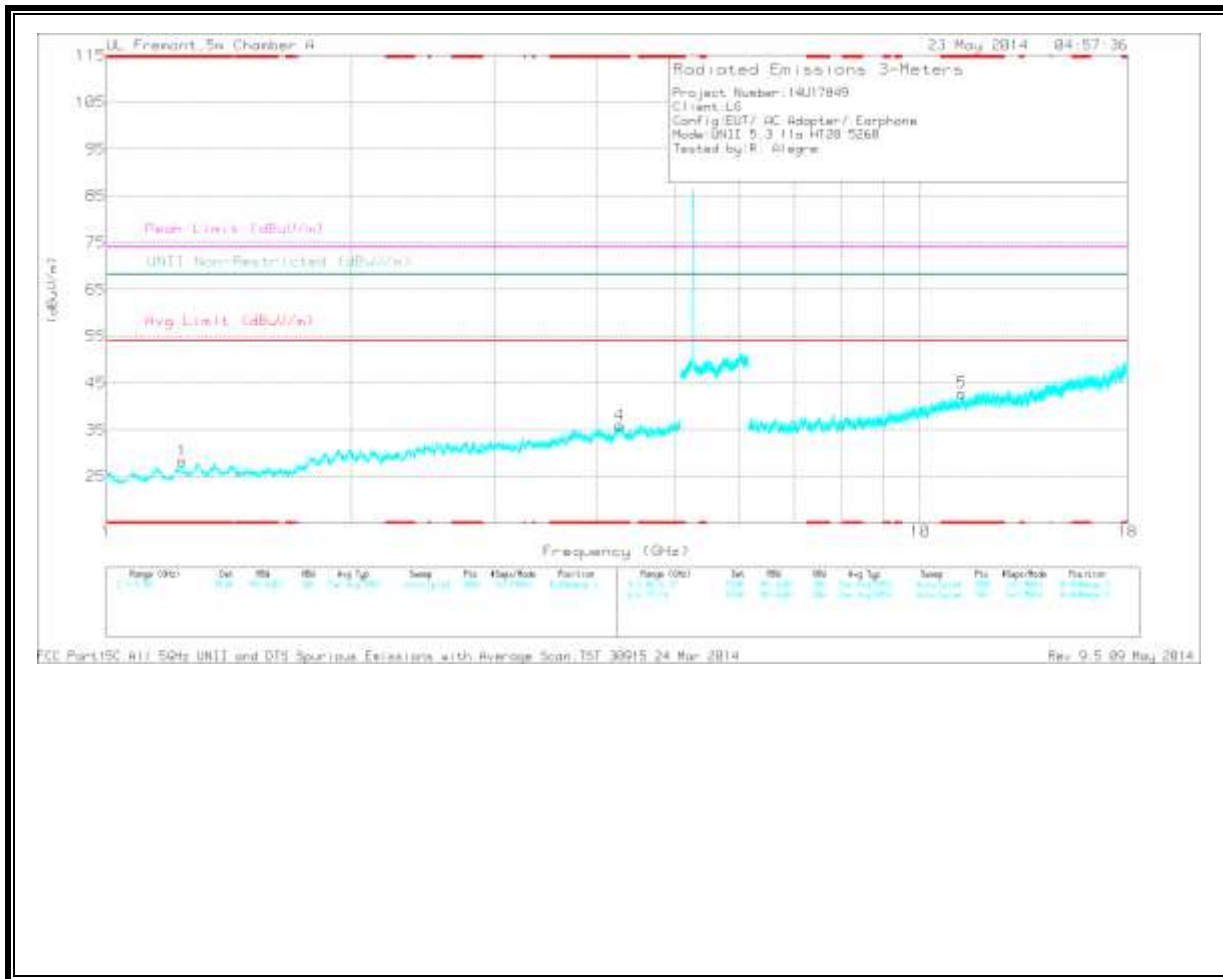
### HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.362	35.26	PK	30	-36.8	0	28.46	-	-	74	-45.54	-	-	0-360	100	H
3	* 2.761	32.58	PK	32.7	-32.2	0	33.08	-	-	74	-40.92	-	-	0-360	100	H
1	* 1.239	35.84	PK	29.7	-37.2	0	28.34	-	-	74	-45.66	-	-	0-360	200	V
4	* 4.276	30.76	PK	34	-28.7	0	36.06	-	-	74	-37.94	-	-	0-360	200	V
6	* 11.286	25.83	PK	38	-21.6	0	42.23	-	-	74	-31.77	-	-	0-360	100	H
5	* 11.26	26.71	PK	37.9	-21.7	0	42.91	-	-	74	-31.09	-	-	0-360	100	V

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

PK - Peak detector

Radiated Emissions

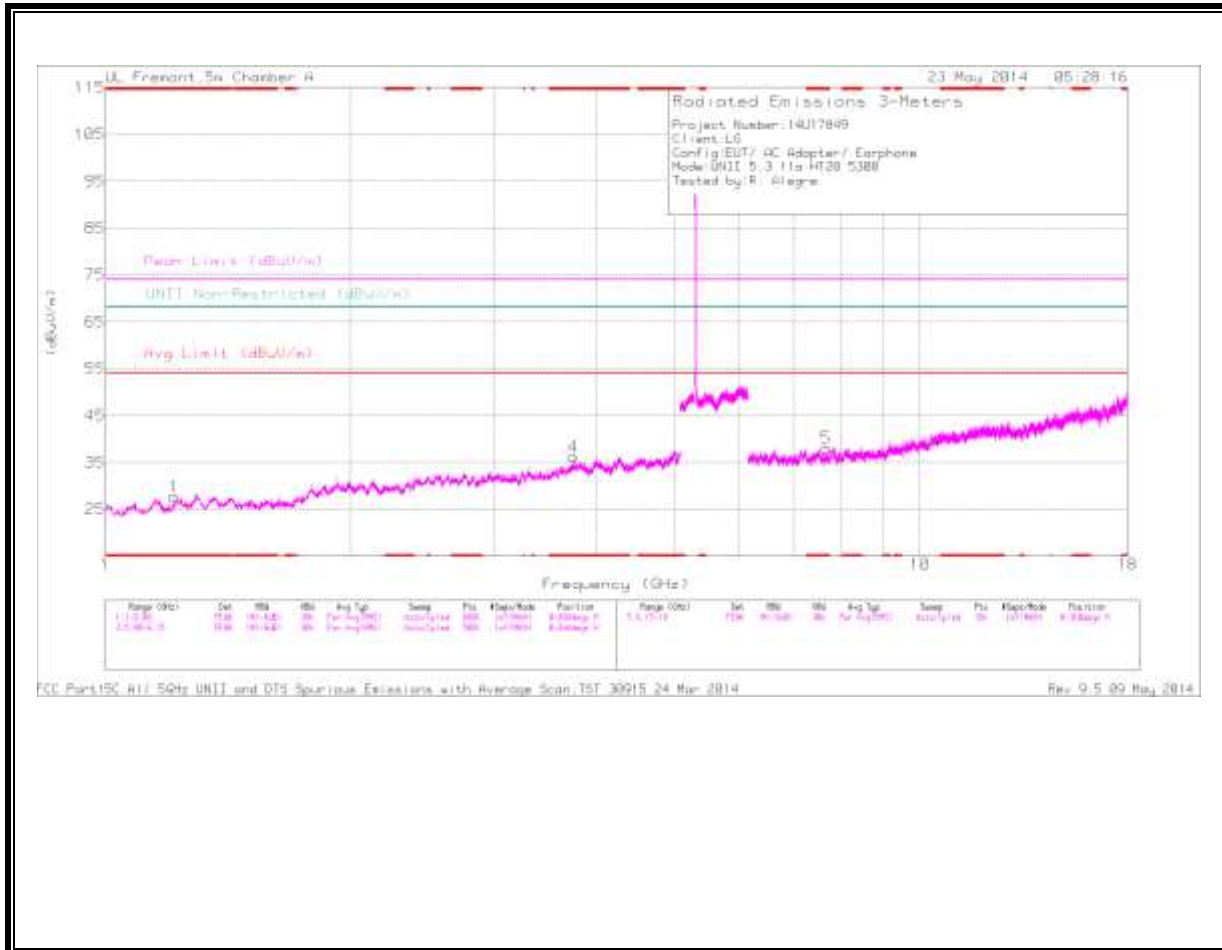
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.763	40.65	PK1	32.7	-32.3	0	41.05	-	-	74	-32.95	-	-	1	100	H
* 1.361	43.27	PK1	30	-36.8	0	36.47	-	-	74	-37.53	-	-	1	100	H
* 4.278	38.61	PK1	34	-28.7	0	43.91	-	-	74	-30.09	-	-	1	201	V
* 1.239	43.52	PK1	29.7	-37.2	0	36.02	-	-	74	-37.98	-	-	1	201	V
* 11.287	33.57	PK1	38	-21.7	0	49.87	-	-	74	-24.13	-	-	1	100	H
* 11.26	34.07	PK1	37.9	-21.7	0	50.27	-	-	74	-23.73	-	-	1	100	V
* 11.262	23.31	AD1	37.9	-21.8	.2	39.61	54	-14.39	-	-	-	-	1	100	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

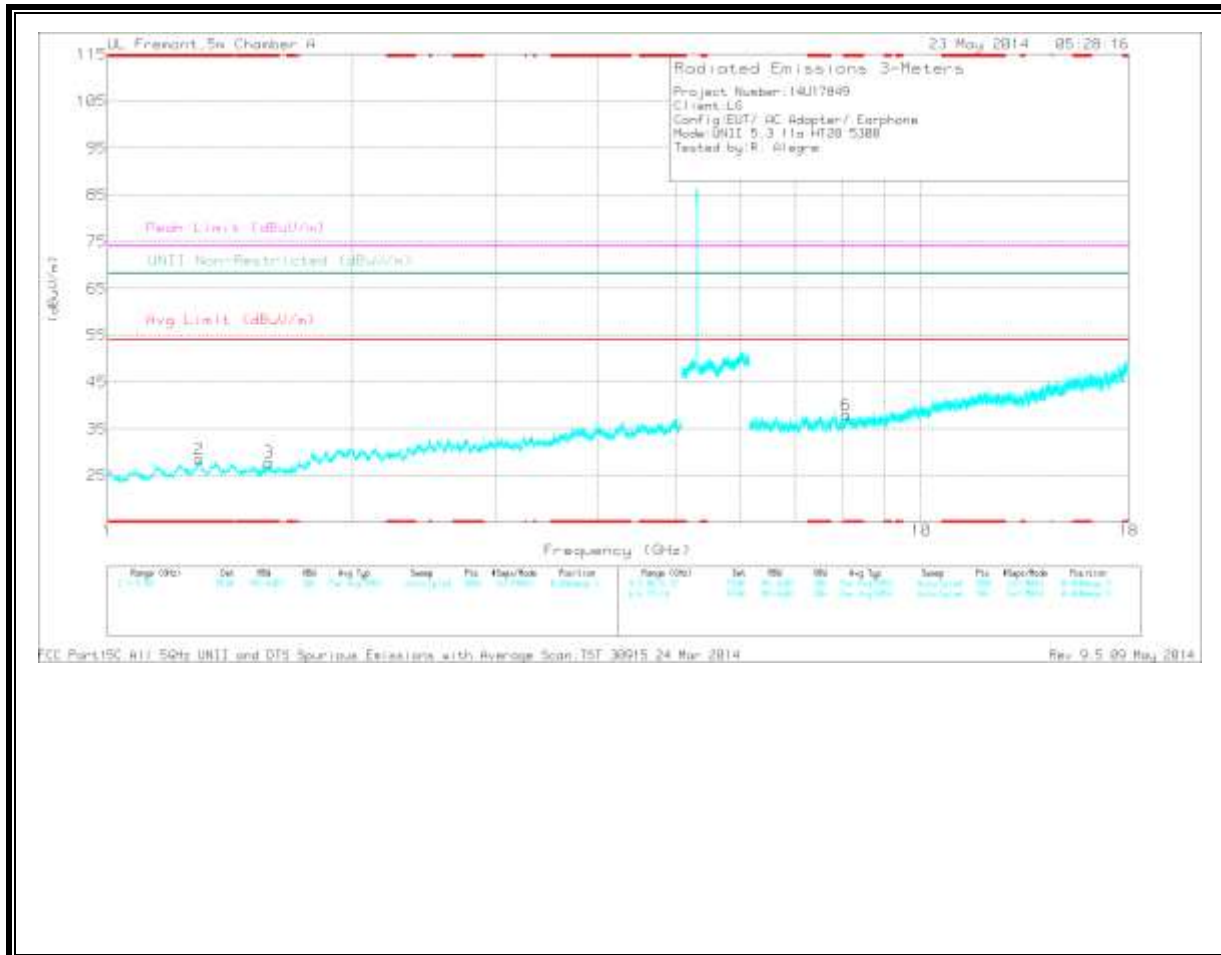
MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.214	35.33	PK	29.4	-36.9	0	27.83	-	-	74	-46.17	-	-	0-360	100	H
4	* 3.759	32.68	PK	33.5	-29.9	0	36.28	-	-	74	-37.72	-	-	0-360	100	H
2	* 1.296	35	PK	30.2	-36.7	0	28.5	-	-	74	-45.5	-	-	0-360	100	V
3	* 1.58	34.77	PK	28.8	-35.7	0	27.87	-	-	74	-46.13	-	-	0-360	201	V
5	* 7.666	29.52	PK	35.4	-26.7	0	38.22	-	-	74	-35.78	-	-	0-360	100	H
6	* 8.094	27.81	PK	35.5	-25.3	0	38.01	-	-	74	-35.99	-	-	0-360	100	V

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

PK - Peak detector

Radiated Emissions

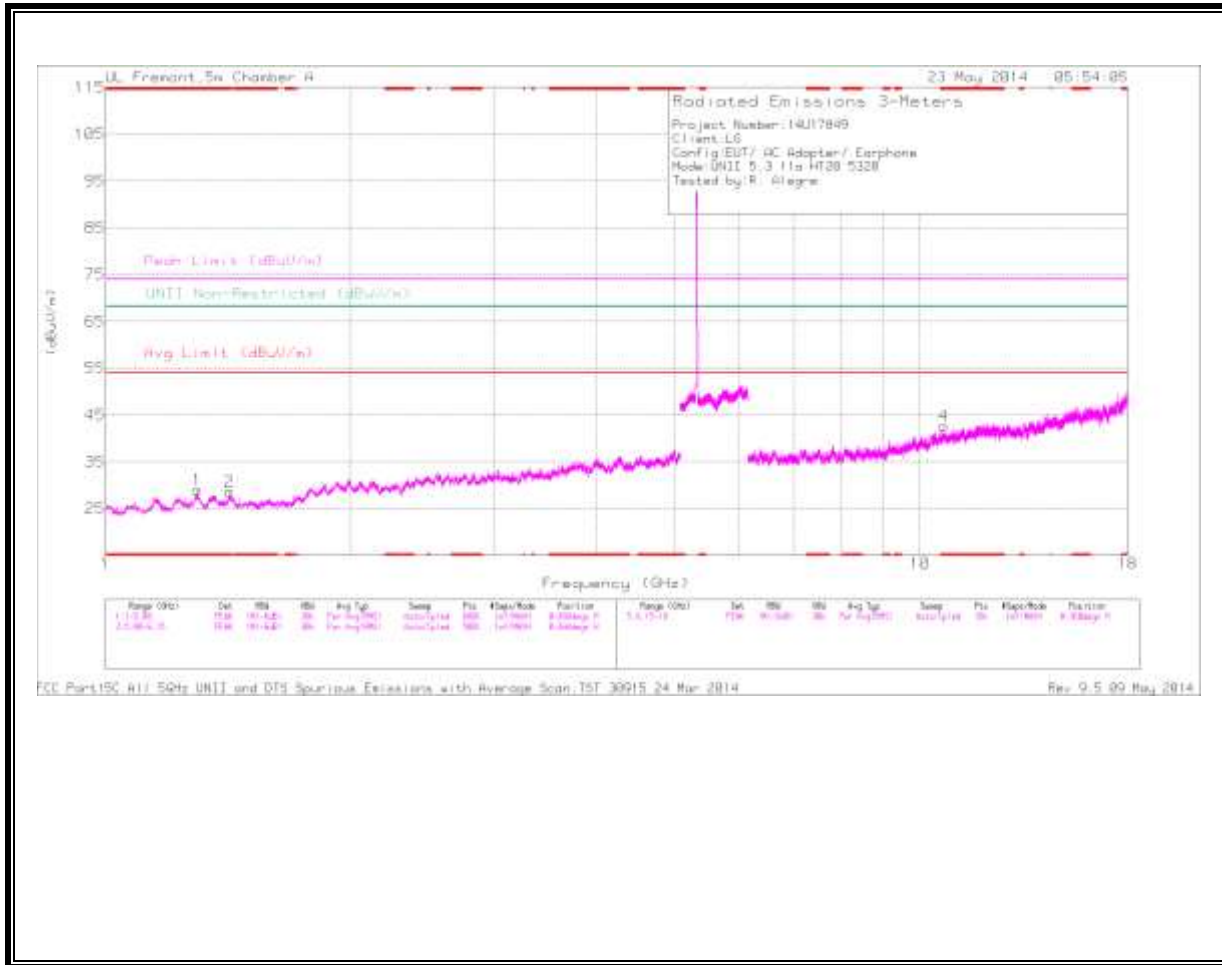
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.758	39.78	PK1	33.5	-30	0	43.28	-	-	74	-30.72	-	-	1	100	H
* 3.758	28.3	AD1	33.5	-29.9	.2	32.1	54	-21.9	-	-	-	-	1	100	H
* 1.213	42.38	PK1	29.4	-36.9	0	34.88	-	-	74	-39.12	-	-	1	100	H
* 1.58	42.85	PK1	28.8	-35.7	0	35.95	-	-	74	-38.05	-	-	1	202	V
* 1.297	43.42	PK1	30.2	-36.7	0	36.92	-	-	74	-37.08	-	-	1	100	V
* 7.666	37.02	PK1	35.4	-26.7	0	45.72	-	-	74	-28.28	-	-	1	100	H
* 8.095	35.78	PK1	35.5	-25.3	0	45.98	-	-	74	-28.02	-	-	1	100	V

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

PK1 - KDB789033 Method: Peak

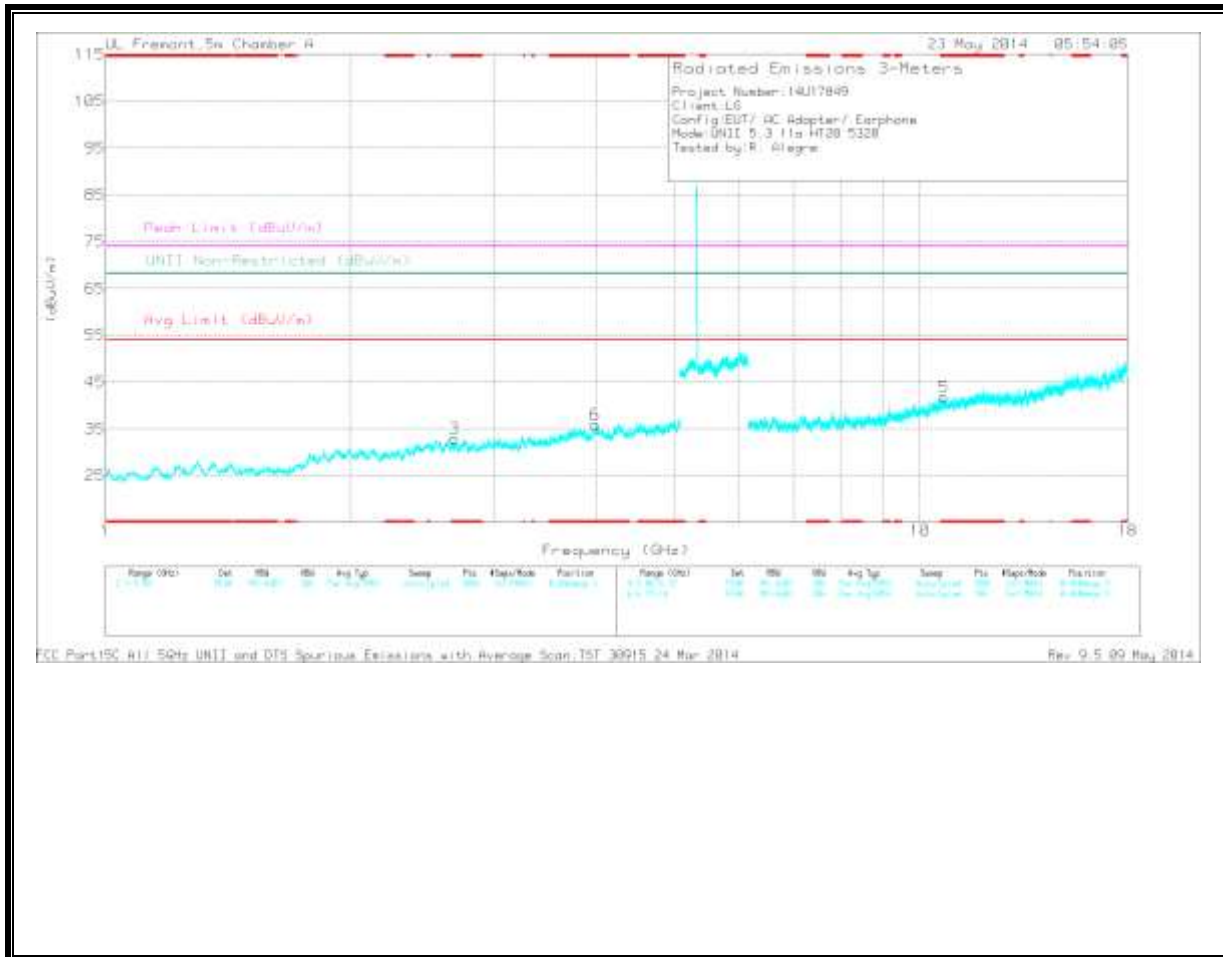
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.297	35.53	PK	30.2	-36.7	0	29.03	-	-	74	-44.97	-	-	0-360	100	H
2	* 1.421	35.59	PK	29.6	-36.5	0	28.69	-	-	74	-45.31	-	-	0-360	200	H
3	* 2.68	33.54	PK	32.8	-33.4	0	32.94	-	-	74	-41.06	-	-	0-360	201	V
6	* 3.991	32.17	PK	33.7	-29.9	0	35.97	-	-	74	-38.03	-	-	0-360	201	V
4	* 10.705	26.92	PK	37.9	-22.1	0	42.72	-	-	74	-31.28	-	-	0-360	100	H
5	* 10.701	25.85	PK	37.9	-21.9	0	41.85	-	-	74	-32.15	-	-	0-360	201	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.419	43.93	PK1	29.6	-36.5	0	37.03	-	-	74	-36.97	-	-	1	202	H
* 1.299	43.1	PK1	30.2	-36.7	0	36.6	-	-	74	-37.4	-	-	1	100	H
* 3.993	38.85	PK1	33.7	-29.8	0	42.75	-	-	74	-31.25	-	-	1	202	V
* 2.68	41.26	PK1	32.8	-33.4	0	40.66	-	-	74	-33.34	-	-	1	202	V
* 10.704	33.69	PK1	37.9	-22	0	49.59	-	-	74	-24.41	-	-	1	100	H
* 10.704	22.9	AD1	37.9	-22	.2	39	54	-15	-	-	-	-	1	100	H
* 10.702	34.15	PK1	37.9	-21.9	0	50.15	-	-	74	-23.85	-	-	1	201	V

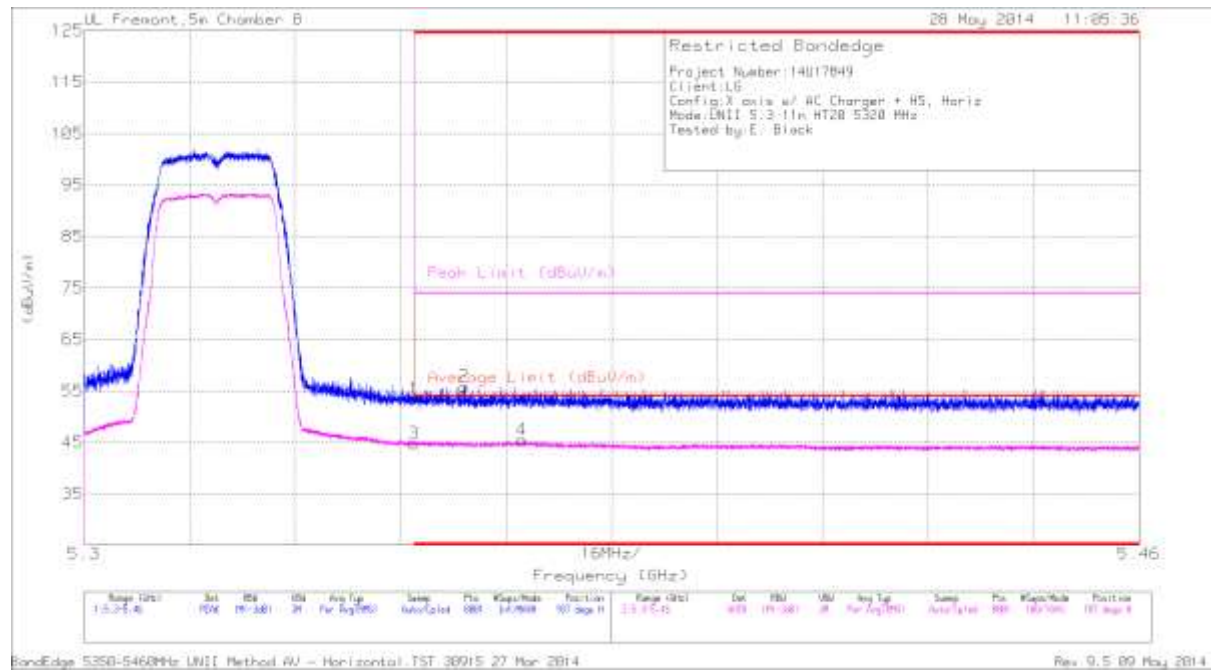
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

## 10.2.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

### HORIZONTAL



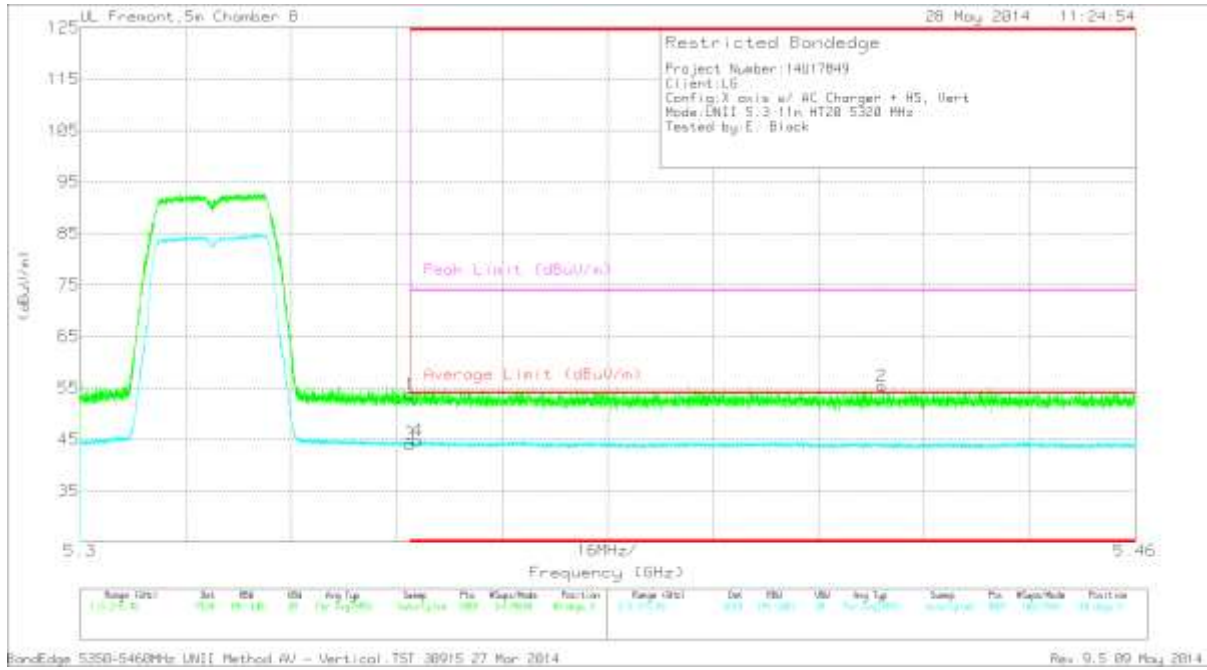
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.84	PK	34.5	-19.9	0	53.44	-	-	74	-20.56	187	147	H
3	* 5.35	29.94	RMS	34.5	-19.9	.24	44.74	54	-9.26	-	-	187	147	H
2	* 5.358	41.36	PK	34.5	-20	0	55.86	-	-	74	-18.14	187	147	H
4	* 5.366	30.66	RMS	34.5	-19.9	.24	45.46	54	-8.54	-	-	187	147	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.12	PK	34.5	-19.9	0	53.72	-	-	74	-20.28	40	201	V
3	* 5.35	29.24	RMS	34.5	-19.9	.24	44.04	54	-9.96	-	-	40	201	V
4	* 5.351	30.04	RMS	34.5	-20	.24	44.74	54	-9.26	-	-	40	201	V
2	* 5.422	40.92	PK	34.5	-20.1	0	55.32	-	-	74	-18.68	40	201	V

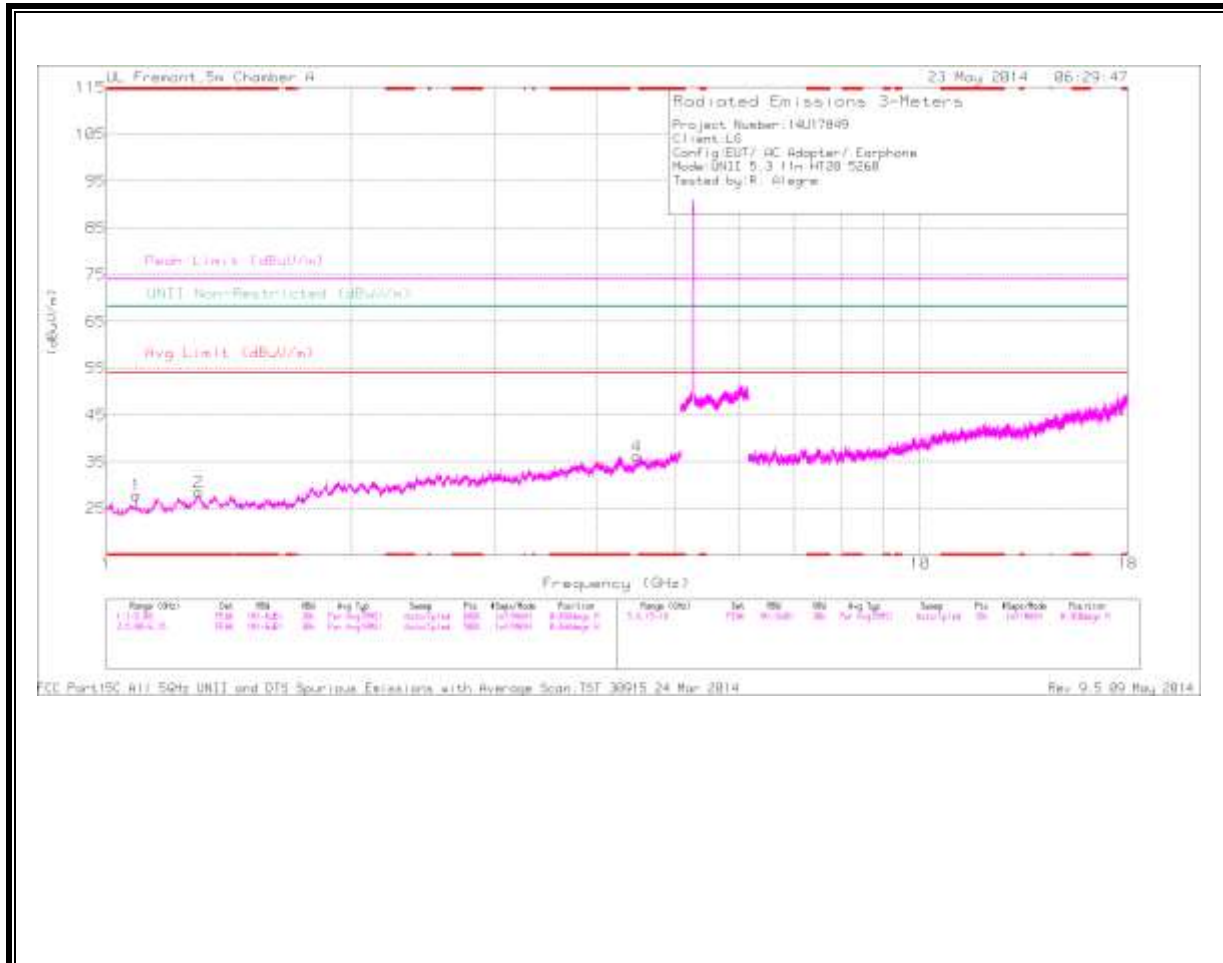
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

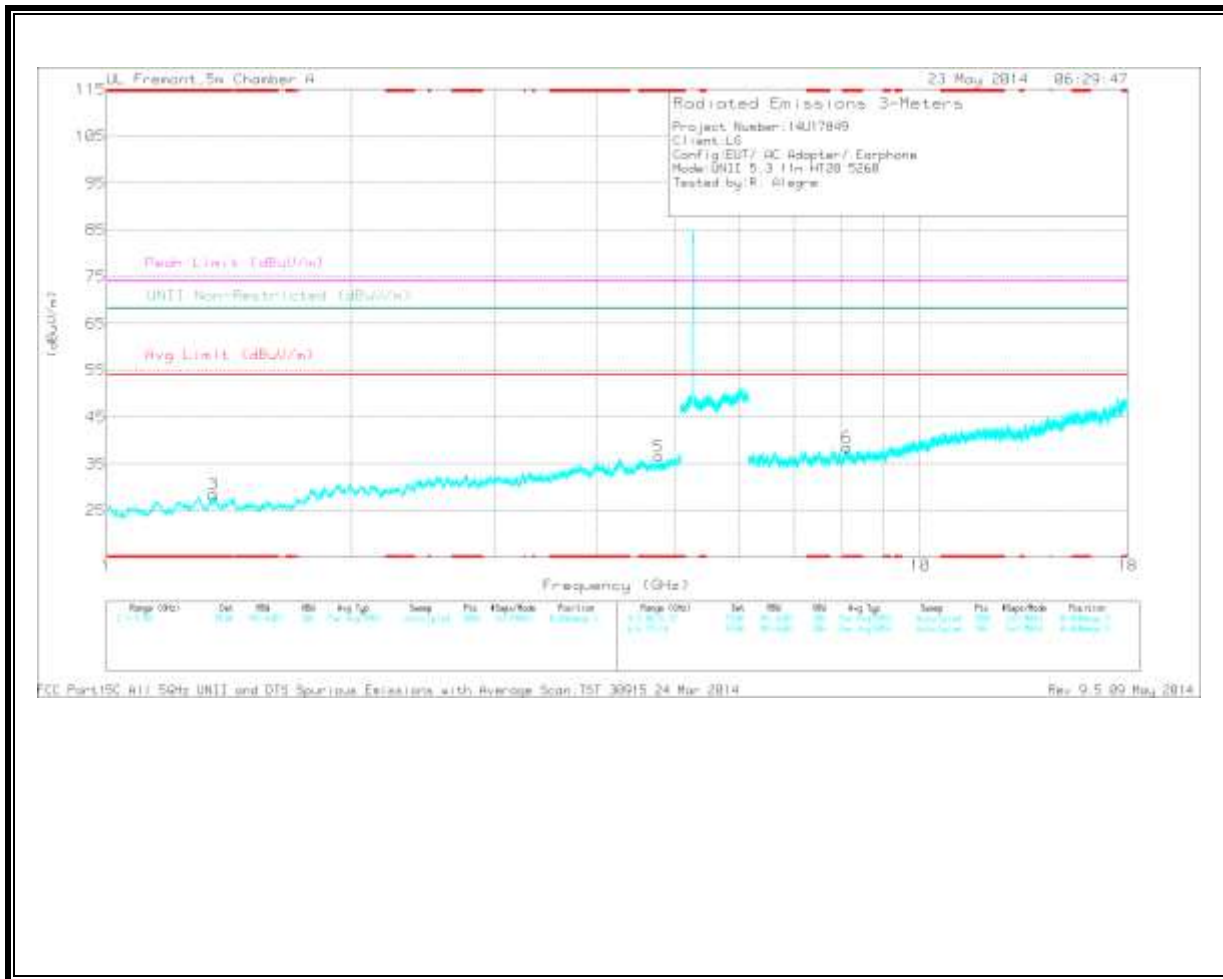
LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.088	37.02	PK	28.4	-37.5	0	27.92	-	-	74	-46.08	-	-	0-360	100	H
2	* 1.299	35	PK	30.2	-36.7	0	28.5	-	-	74	-45.5	-	-	0-360	200	H
3	* 1.354	35.3	PK	30	-36.8	0	28.5	-	-	74	-45.5	-	-	0-360	201	V
5	* 4.769	32.49	PK	34	-29.9	0	36.59	-	-	74	-37.41	-	-	0-360	100	V
6	* 8.127	28.51	PK	35.5	-25.4	0	38.61	-	-	74	-35.39	-	-	0-360	200	V
4	4.486	30.93	PK	33.9	-28.6	0	36.23	-	-	-	-	68.2	-31.97	0-360	200	H

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

PK - Peak detector

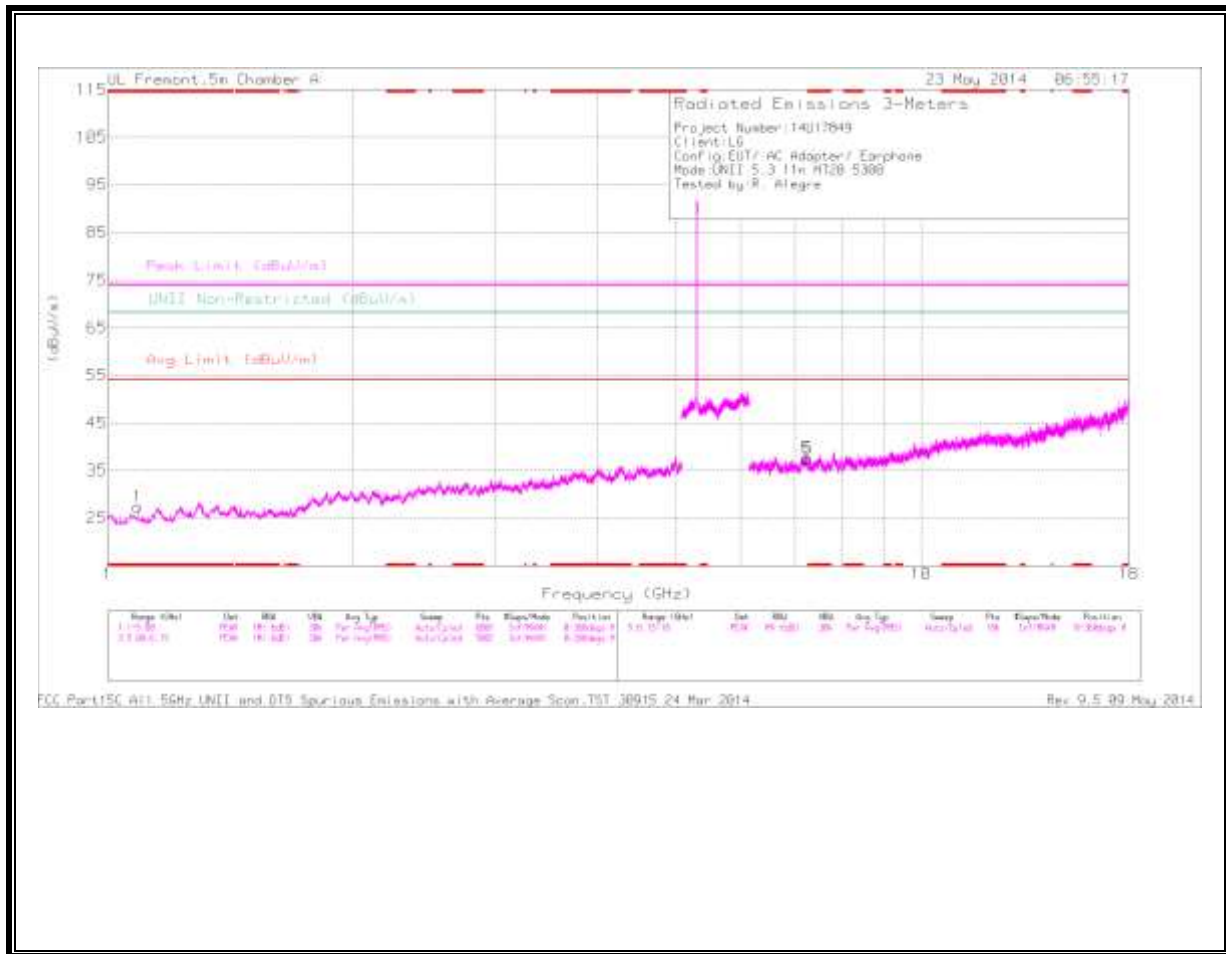
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.3	43.27	PK1	30.2	-36.8	0	36.67	-	-	74	-37.33	-	-	1	202	H
* 1.09	43.44	PK1	28.4	-37.4	0	34.44	-	-	74	-39.56	-	-	1	100	H
* 4.768	39.88	PK1	34	-29.9	0	43.98	-	-	74	-30.02	-	-	1	100	V
* 1.354	43.22	PK1	30	-36.8	0	36.42	-	-	74	-37.58	-	-	1	202	V
* 8.129	35.35	PK1	35.5	-25.5	0	45.35	-	-	74	-28.65	-	-	1	201	V
4.487	38.37	PK1	33.9	-28.7	0	43.57	-	-	-	-	68.2	-24.63	1	202	H

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

PK1 - KDB789033 Method: Peak

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.088	36.5	PK	28.4	-37.5	0	27.4	-	-	74	-46.6	-	-	0-360	100	H
2	* 1.284	35.2	PK	30.1	-37	0	28.3	-	-	74	-45.7	-	-	0-360	100	V
3	* 2.752	32.19	PK	32.7	-31.7	0	33.19	-	-	74	-40.81	-	-	0-360	100	V
4	* 3.863	33.36	PK	33.7	-30.8	0	36.26	-	-	74	-37.74	-	-	0-360	100	V
6	* 7.256	28.3	PK	35.2	-25.9	0	37.6	-	-	74	-36.4	-	-	0-360	100	H
5	7.244	27.76	PK	35.2	-25.2	0	37.76	-	-	-	-	68.2	-30.44	0-360	200	H

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

PK - Peak detector

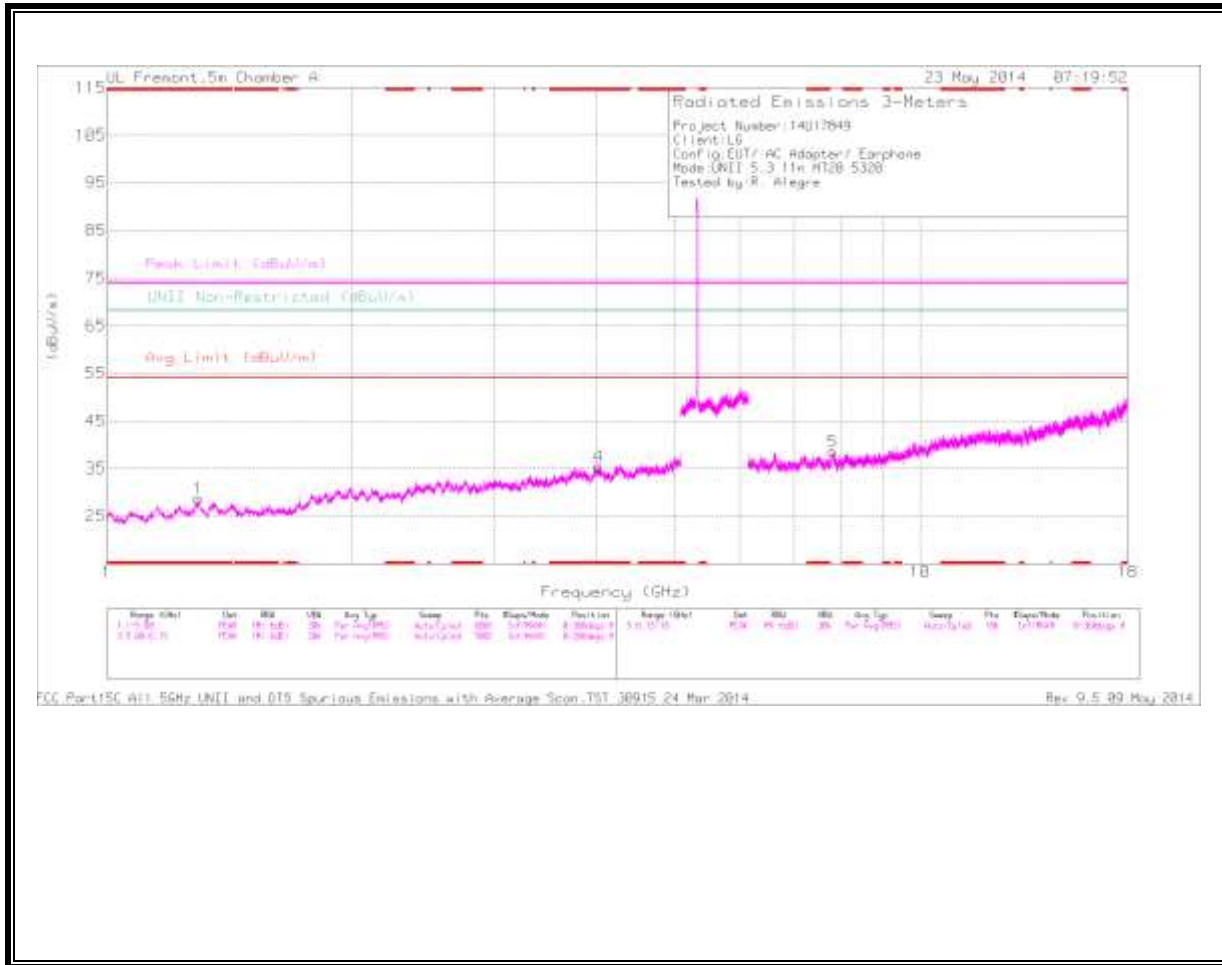
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.087	43.32	PK1	28.4	-37.6	0	34.12	-	-	74	-39.88	-	-	1	100	H
* 3.863	39.42	PK1	33.7	-30.8	0	42.32	-	-	74	-31.68	-	-	1	100	V
* 2.75	40.27	PK1	32.7	-31.8	0	41.17	-	-	74	-32.83	-	-	1	100	V
* 1.283	43.25	PK1	30.1	-37.1	0	36.25	-	-	74	-37.75	-	-	1	100	V
* 7.258	36.87	PK1	35.2	-26	0	46.07	-	-	74	-27.93	-	-	1	100	H
7.246	35.91	PK1	35.2	-25.3	0	45.81	-	-	-	-	68.2	-22.39	1	201	H

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

PK1 - KDB789033 Method: Peak

HIGH CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.296	35.25	PK	30.2	-36.7	0	28.75	-	-	74	-45.25	-	-	0-360	200	H
4	* 4.025	31.91	PK	33.7	-30.1	0	35.51	-	-	74	-38.49	-	-	0-360	100	H
2	* 1.573	34.73	PK	28.8	-35.7	0	27.83	-	-	74	-46.17	-	-	0-360	201	V
3	* 4.263	30.29	PK	34	-28.1	0	36.19	-	-	74	-37.81	-	-	0-360	100	V
6	* 8.414	28.53	PK	35.7	-25.8	0	38.43	-	-	74	-35.57	-	-	0-360	100	V
5	7.806	27.84	PK	35.5	-24.8	0	38.54	-	-	-	-	68.2	-29.66	0-360	100	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.296	43.34	PK1	30.2	-36.7	0	36.84	-	-	74	-37.16	-	-	1	201	H
* 4.024	39.39	PK1	33.7	-30	0	43.09	-	-	74	-30.91	-	-	1	100	H
* 1.575	42.69	PK1	28.8	-35.7	0	35.79	-	-	74	-38.21	-	-	1	201	V
* 4.265	38.29	PK1	34	-28.2	0	44.09	-	-	74	-29.91	-	-	1	100	V
* 8.413	35.09	PK1	35.7	-25.7	0	45.09	-	-	74	-28.91	-	-	1	100	V
7.804	36.01	PK1	35.5	-24.9	0	46.61	-	-	-	-	68.2	-21.59	1	100	H

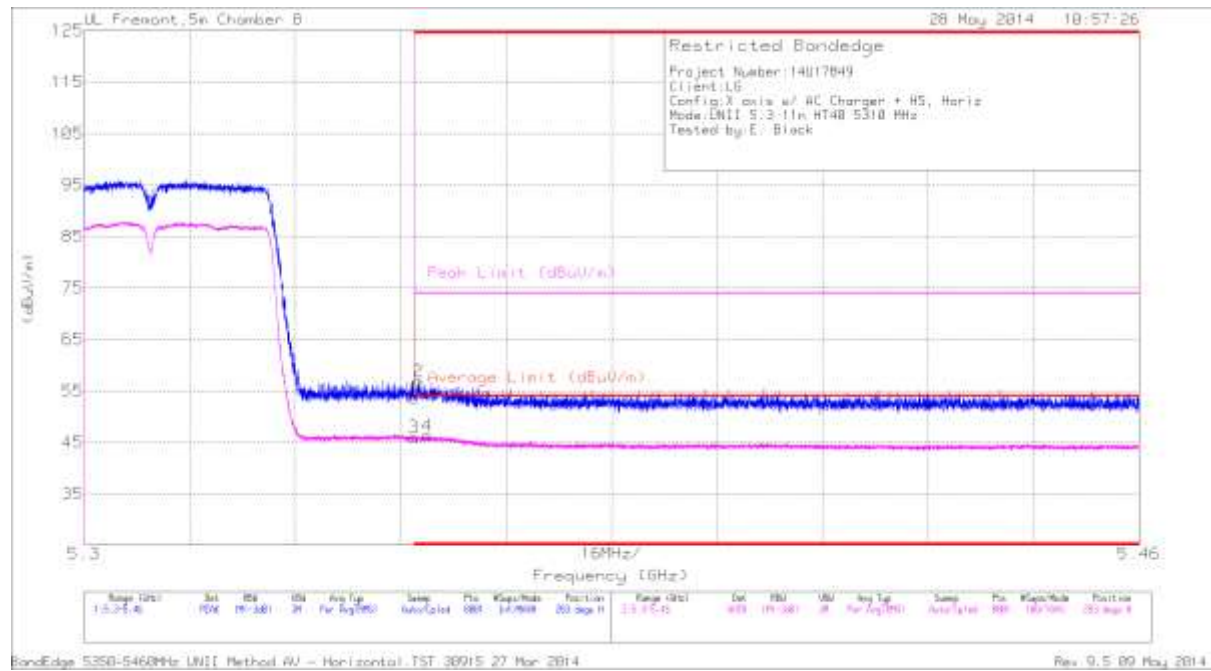
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak



### 10.2.4. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL



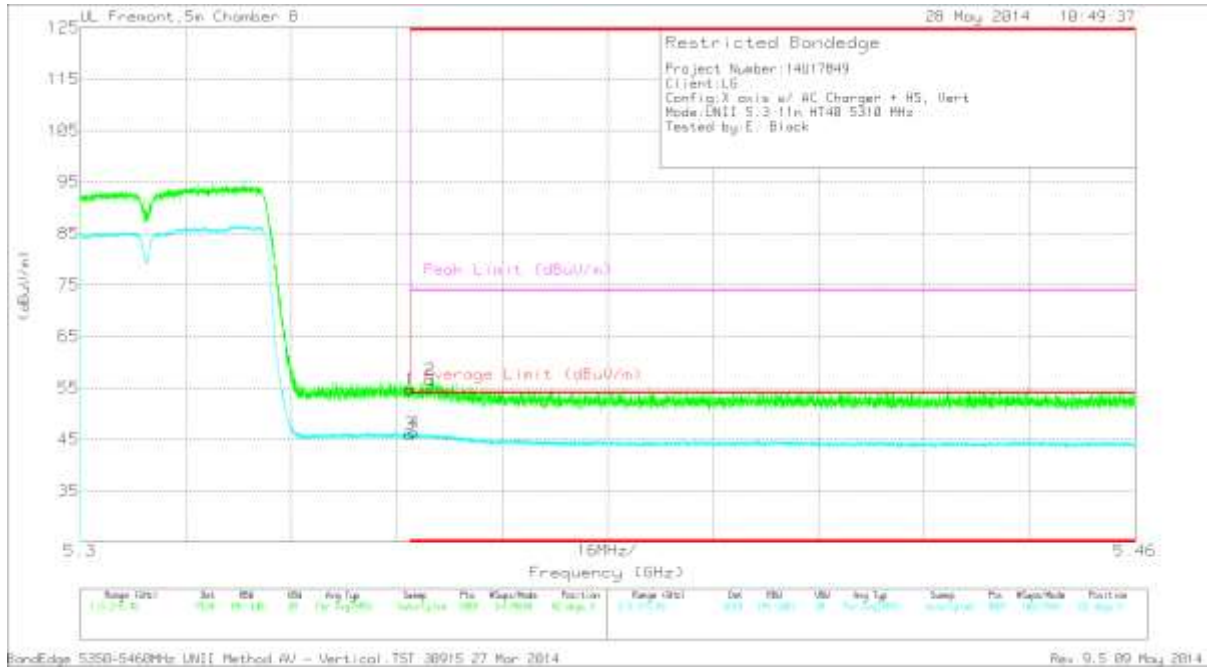
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.09	PK	34.5	-19.9	0	53.69	-	-	74	-20.31	283	127	H
3	* 5.35	30.86	RMS	34.5	-19.9	.5	45.96	54	-8.04	-	-	283	127	H
2	* 5.351	42.35	PK	34.5	-20	0	56.85	-	-	74	-17.15	283	127	H
4	* 5.352	31.28	RMS	34.5	-20	.5	46.28	54	-7.72	-	-	283	127	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.07	PK	34.5	-19.9	0	54.67	-	-	74	-19.33	82	251	V
3	* 5.35	30.86	RMS	34.5	-19.9	.5	45.96	54	-8.04	-	-	82	251	V
4	* 5.351	31.29	RMS	34.5	-20	.5	46.29	54	-7.71	-	-	82	251	V
2	* 5.353	42.06	PK	34.5	-20	0	56.56	-	-	74	-17.44	82	251	V

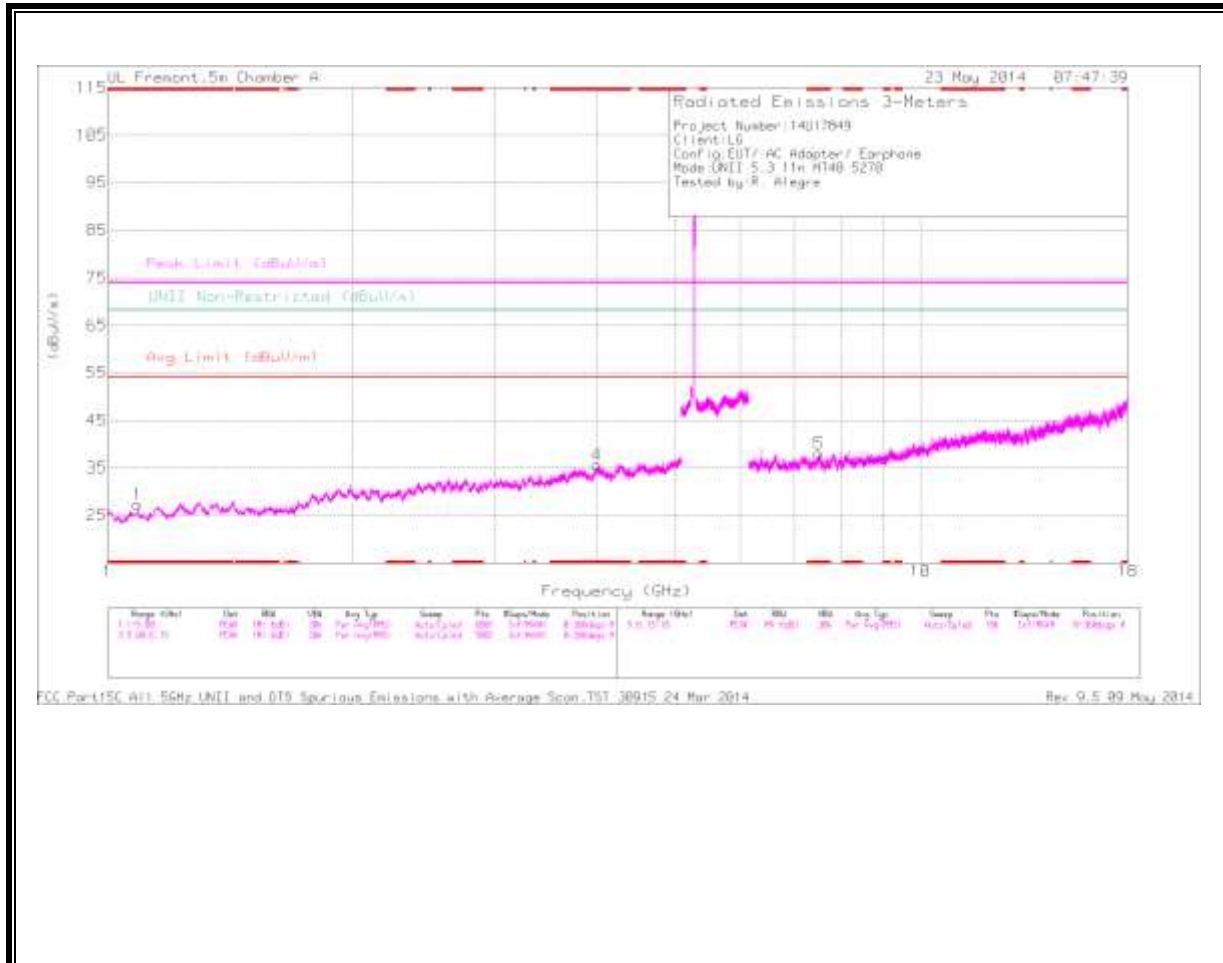
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

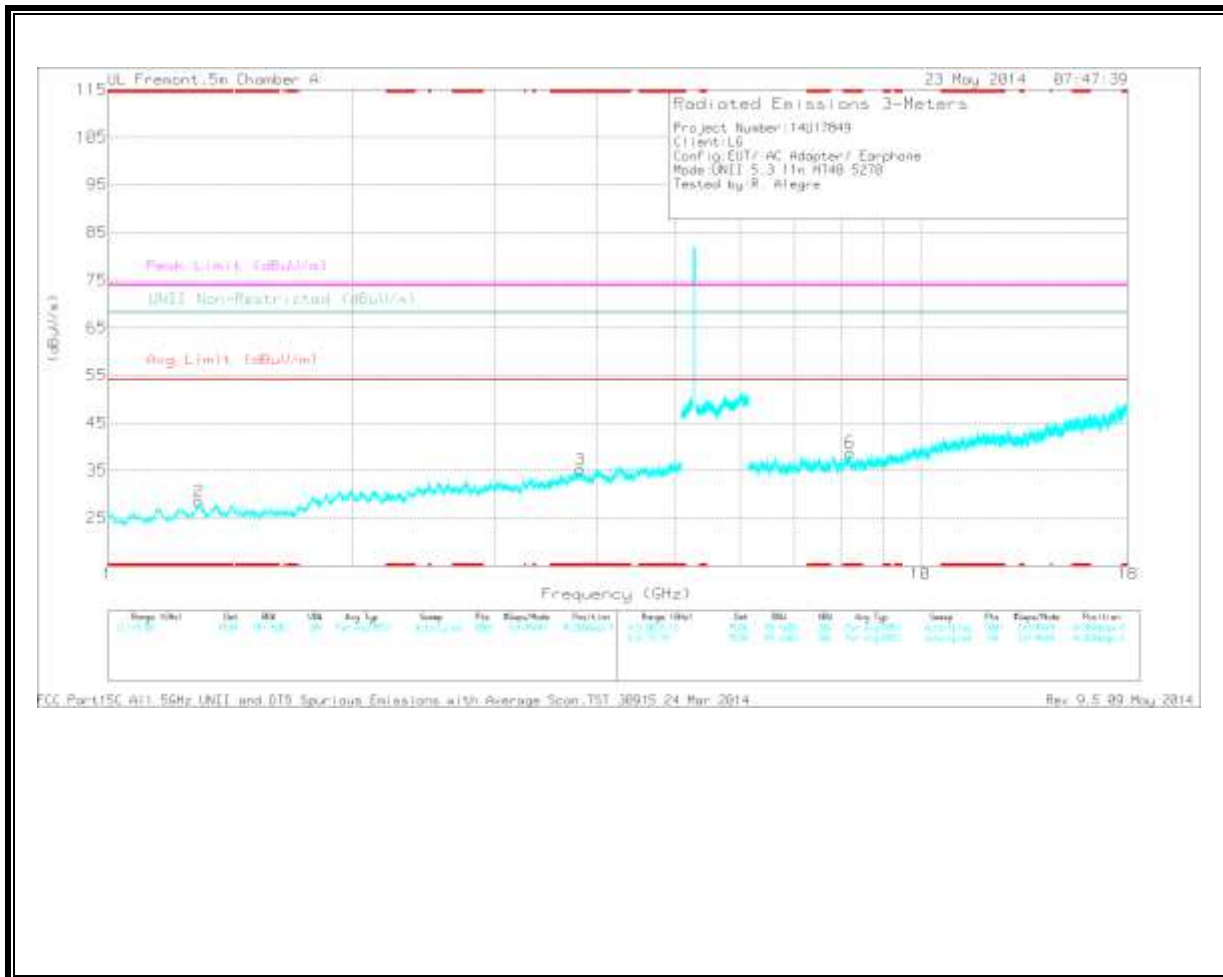
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.088	36.44	PK	28.4	-37.5	0	27.34	-	-	74	-46.66	-	-	0-360	100	H
4	* 3.997	31.56	PK	33.7	-29.6	0	35.66	-	-	74	-38.34	-	-	0-360	200	H
2	* 1.294	35.22	PK	30.2	-36.8	0	28.62	-	-	74	-45.38	-	-	0-360	100	V
3	* 3.819	32.71	PK	33.7	-31.2	0	35.21	-	-	74	-38.79	-	-	0-360	100	V
5	* 7.501	27.57	PK	35.3	-24.8	0	38.07	-	-	74	-35.93	-	-	0-360	200	H
6	* 8.193	29.25	PK	35.6	-26.1	0	38.75	-	-	74	-35.25	-	-	0-360	200	V

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

PK - Peak detector

Radiated Emissions

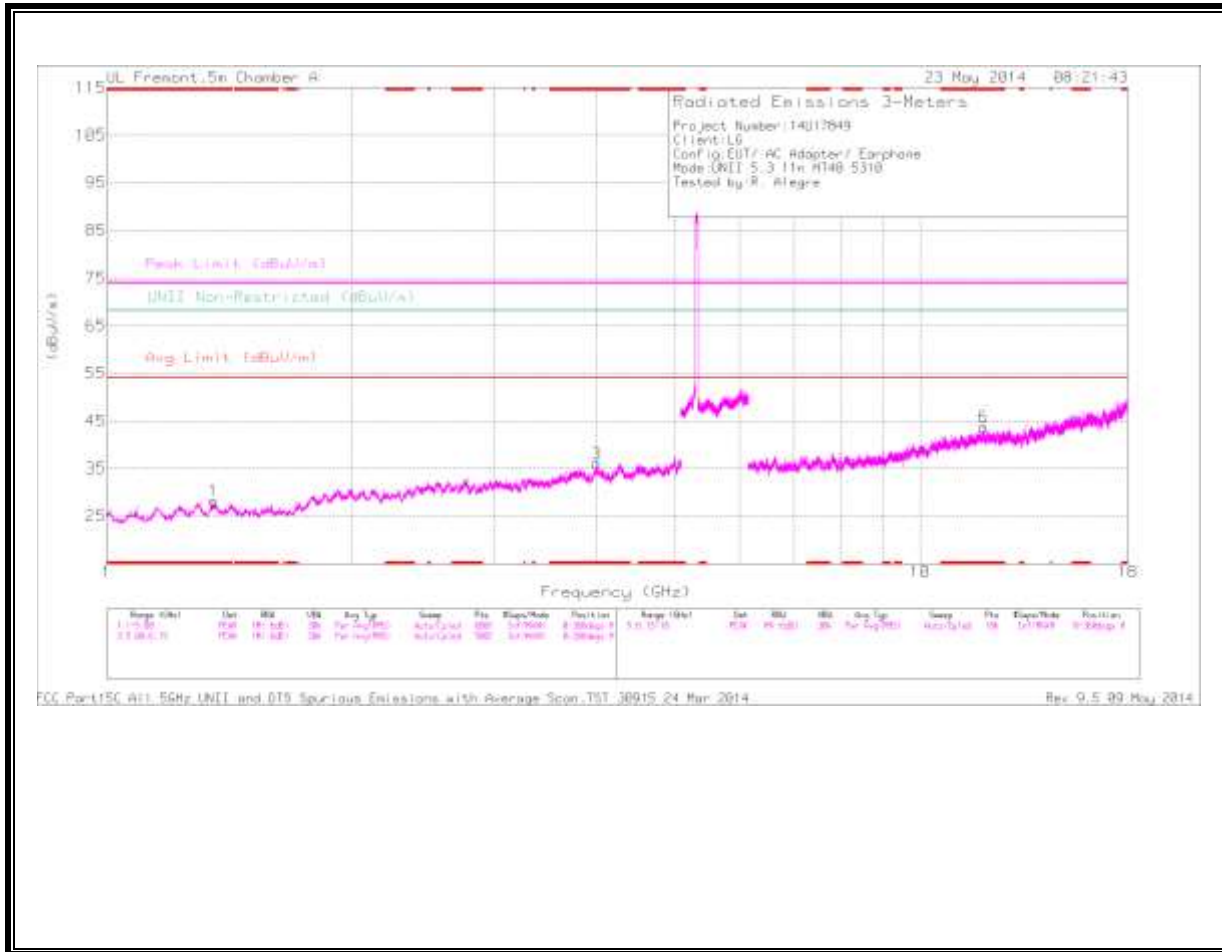
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.999	39.67	PK1	33.7	-29.7	0	43.67	-	-	74	-30.33	-	-	1	200	H
* 1.088	35.53	PK1	28.4	-37.5	0	26.43	-	-	74	-47.57	-	-	1	100	H
* 3.819	40.38	PK1	33.7	-31.2	0	42.88	-	-	74	-31.12	-	-	1	100	V
* 1.293	43.1	PK1	30.2	-36.8	0	36.5	-	-	74	-37.5	-	-	1	100	V
* 7.5	35.89	PK1	35.3	-24.9	0	46.29	-	-	74	-27.71	-	-	1	201	H
* 8.193	35.83	PK1	35.6	-26.1	0	45.33	-	-	74	-28.67	-	-	1	201	V
* 8.192	24.97	AD1	35.6	-26	.5	35.07	54	-18.93	-	-	-	-	1	201	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.354	35.04	PK	30	-36.8	0	28.24	-	-	74	-45.76	-	-	0-360	200	H
3	* 4.007	32.11	PK	33.7	-29.8	0	36.01	-	-	74	-37.99	-	-	0-360	100	H
2	* 1.294	35.08	PK	30.2	-36.8	0	28.48	-	-	74	-45.52	-	-	0-360	200	V
4	* 3.829	32.52	PK	33.7	-31.2	0	35.02	-	-	74	-38.98	-	-	0-360	100	V
6	* 11.964	26.72	PK	38.9	-21.8	0	43.82	-	-	74	-30.18	-	-	0-360	100	H
5	* 12.031	26.92	PK	38.9	-21.9	0	43.92	-	-	74	-30.08	-	-	0-360	201	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.008	38.75	PK1	33.7	-29.8	0	42.65	-	-	74	-31.35	-	-	1	100	H
* 1.355	42.87	PK1	30	-36.8	0	36.07	-	-	74	-37.93	-	-	1	200	H
* 3.831	40.24	PK1	33.7	-31.2	0	42.74	-	-	74	-31.26	-	-	1	100	V
* 1.295	43.44	PK1	30.2	-36.7	0	36.94	-	-	74	-37.06	-	-	1	201	V
* 11.963	33.88	PK1	38.9	-21.9	0	50.88	-	-	74	-23.12	-	-	1	100	H
* 12.032	34.1	PK1	38.9	-22	0	51	-	-	74	-23	-	-	1	202	V
* 12.033	23.47	AD1	38.9	-22.1	.5	40.77	54	-13.23	-	-	-	-	1	202	V

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

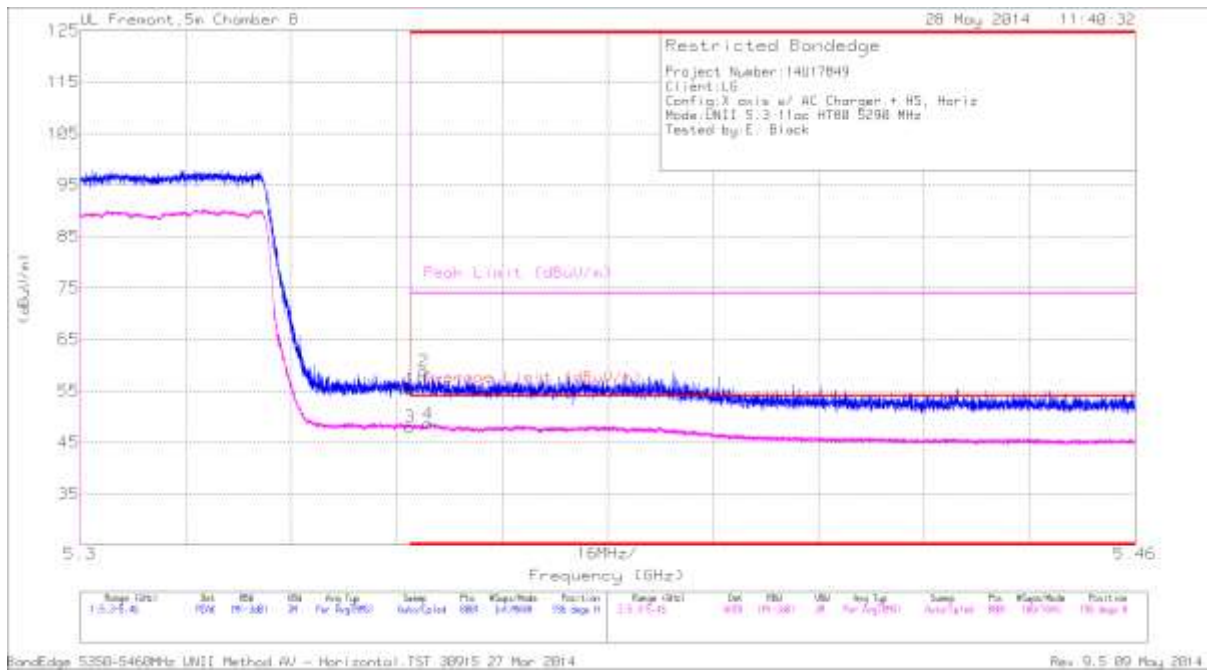
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average



**10.2.6. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL**



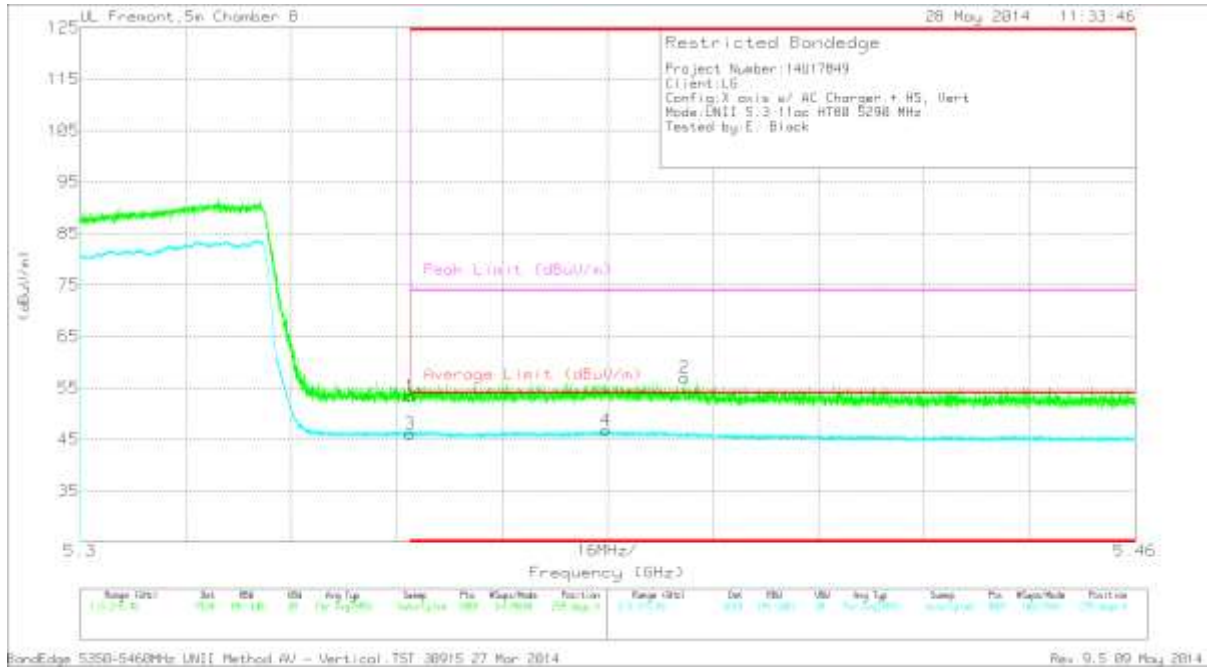
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.73	PK	34.5	-19.9	0	55.33	-	-	74	-18.67	196	267	H
3	* 5.35	31.89	RMS	34.5	-19.9	0.85	47.99	54	-6.01	-	-	196	267	H
2	* 5.352	44.27	PK	34.5	-20	0	58.77	-	-	74	-15.23	196	267	H
4	* 5.353	32.62	RMS	34.5	-20	0.85	48.62	54	-5.38	-	-	196	267	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.8	PK	34.5	-19.9	0	53.4	-	-	74	-20.6	299	271	V
3	* 5.35	30.03	RMS	34.5	-19.9	0.85	46.13	54	-7.87	-	-	299	271	V
4	* 5.38	30.78	RMS	34.5	-20	0.85	46.78	54	-7.22	-	-	299	271	V
2	* 5.392	42.58	PK	34.5	-20.1	0	56.98	-	-	74	-17.02	299	271	V

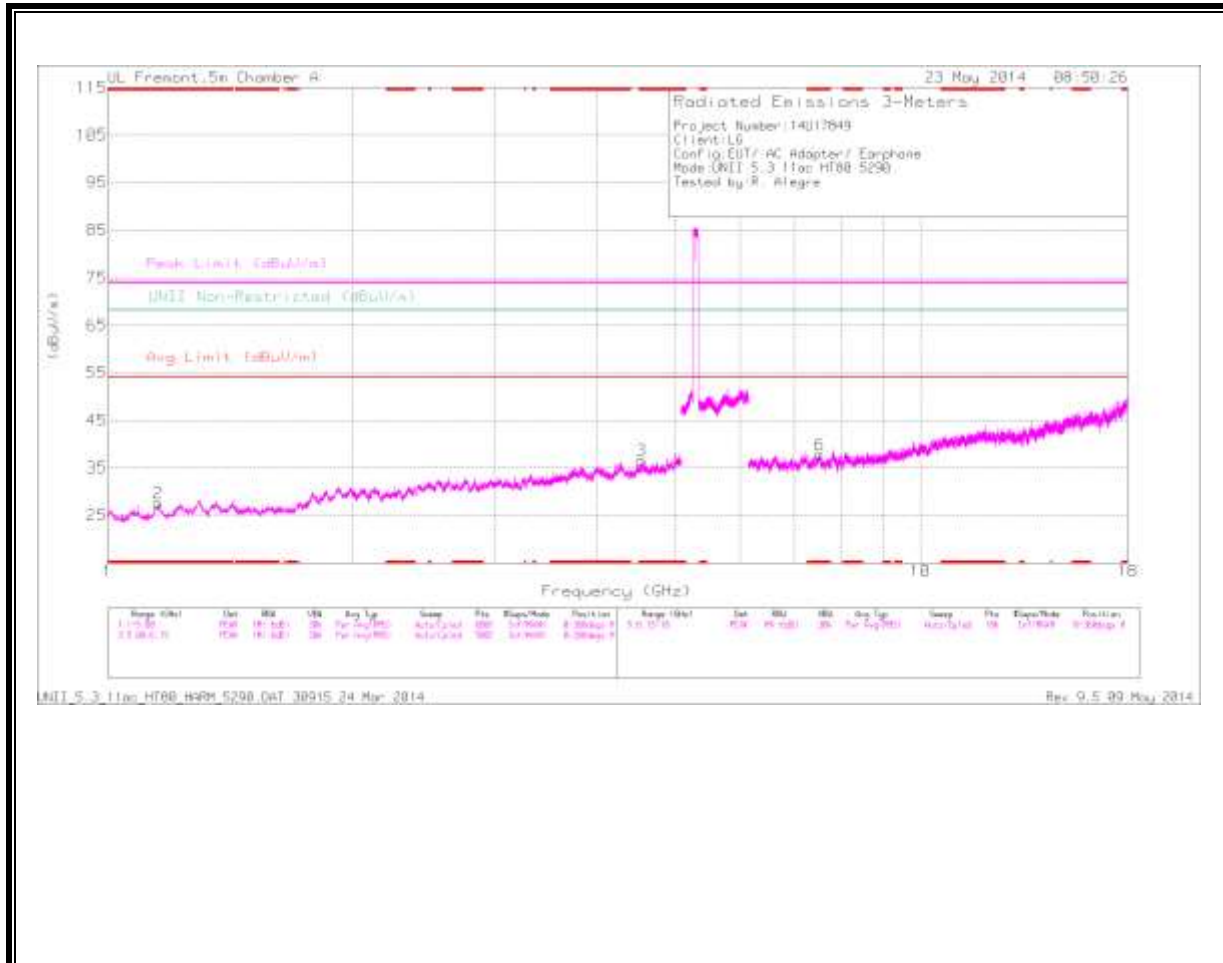
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

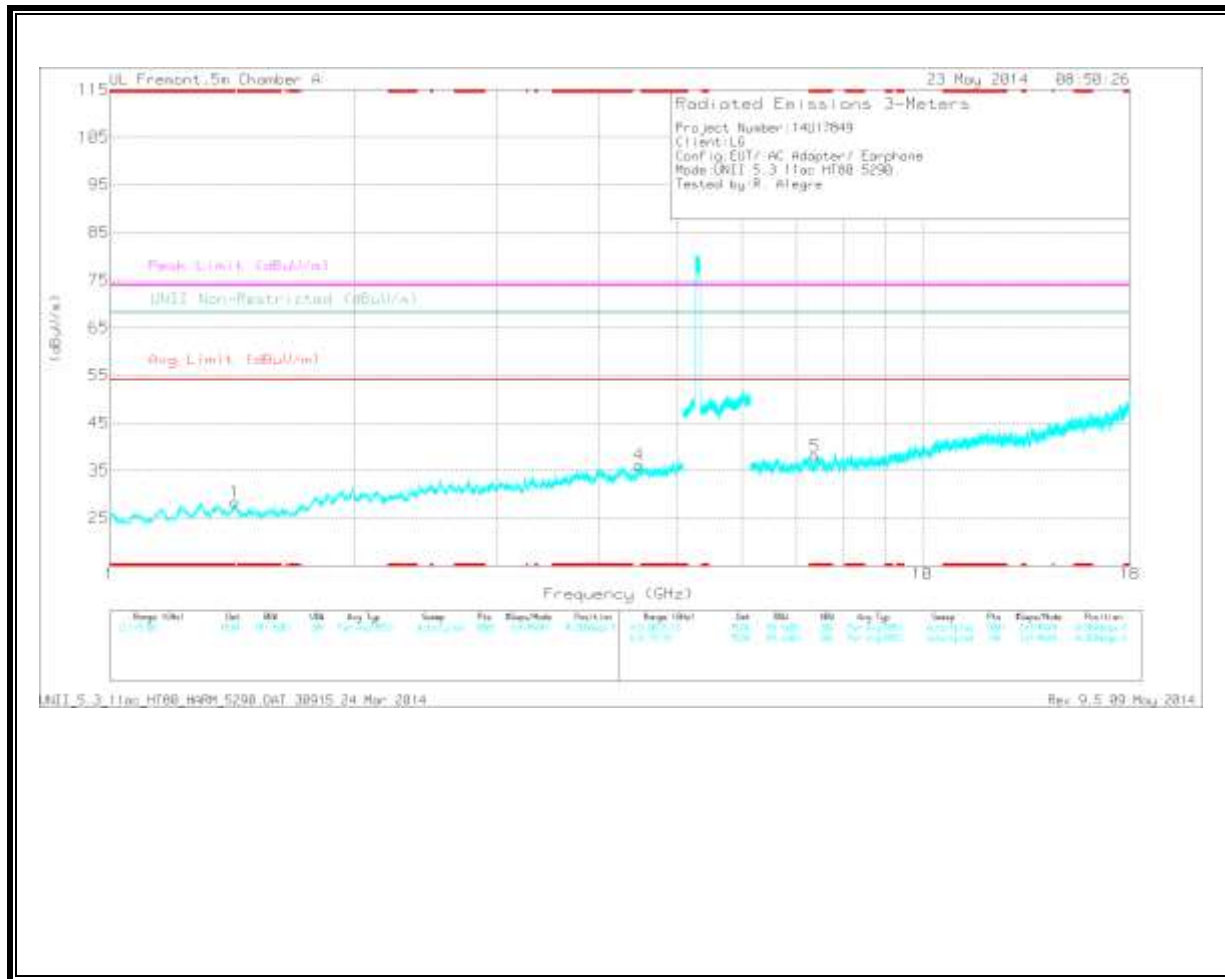
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.154	35.27	PK	28.9	-36.6	0	27.57	-	-	74	-46.43	-	-	0-360	200	H
3	* 4.543	32.56	PK	33.9	-29.9	0	36.56	-	-	74	-37.44	-	-	0-360	200	H
1	* 1.426	35.2	PK	29.5	-36.3	0	28.4	-	-	74	-45.6	-	-	0-360	201	V
6	* 7.525	27.67	PK	35.3	-25.2	0	37.77	-	-	74	-36.23	-	-	0-360	100	H
5	* 7.376	29.13	PK	35.3	-26.4	0	38.03	-	-	74	-35.97	-	-	0-360	200	V
4	4.48	31.31	PK	33.9	-29	0	36.21	-	-	-	-	68.2	-31.99	0-360	100	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.543	39.97	PK1	33.9	-29.9	0	43.97	-	-	74	-30.03	-	-	1	202	H
* 1.156	44.31	PK1	28.9	-36.7	0	36.51	-	-	74	-37.49	-	-	1	202	H
* 1.426	43.53	PK1	29.5	-36.3	0	36.73	-	-	74	-37.27	-	-	1	202	V
* 7.525	35.57	PK1	35.3	-25.2	0	45.67	-	-	74	-28.33	-	-	1	100	H
* 7.378	36.18	PK1	35.3	-26.5	0	44.98	-	-	74	-29.02	-	-	1	201	V
4.478	38.47	PK1	33.9	-29.1	0	43.27	-	-	-	-	68.2	-24.93	1	100	V

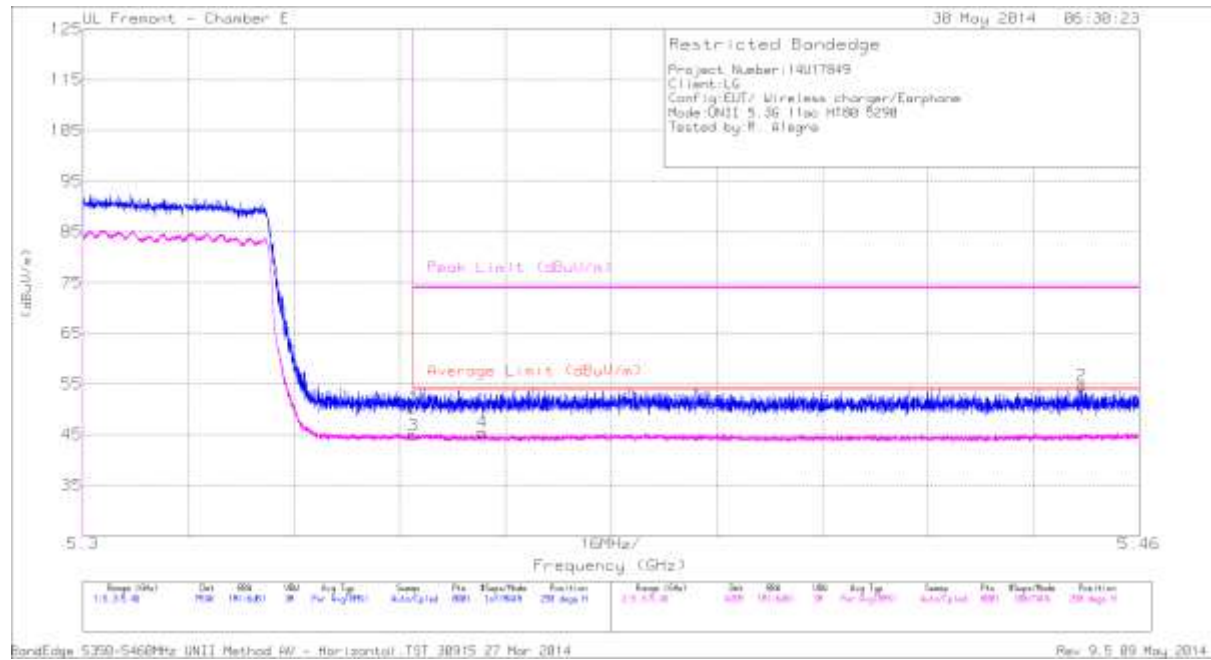
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

**WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH WPC CHARGER AND BACK COVER**

*RESTRICTED BANDEGE (HIGH CHANNEL)*

HORIZONTAL



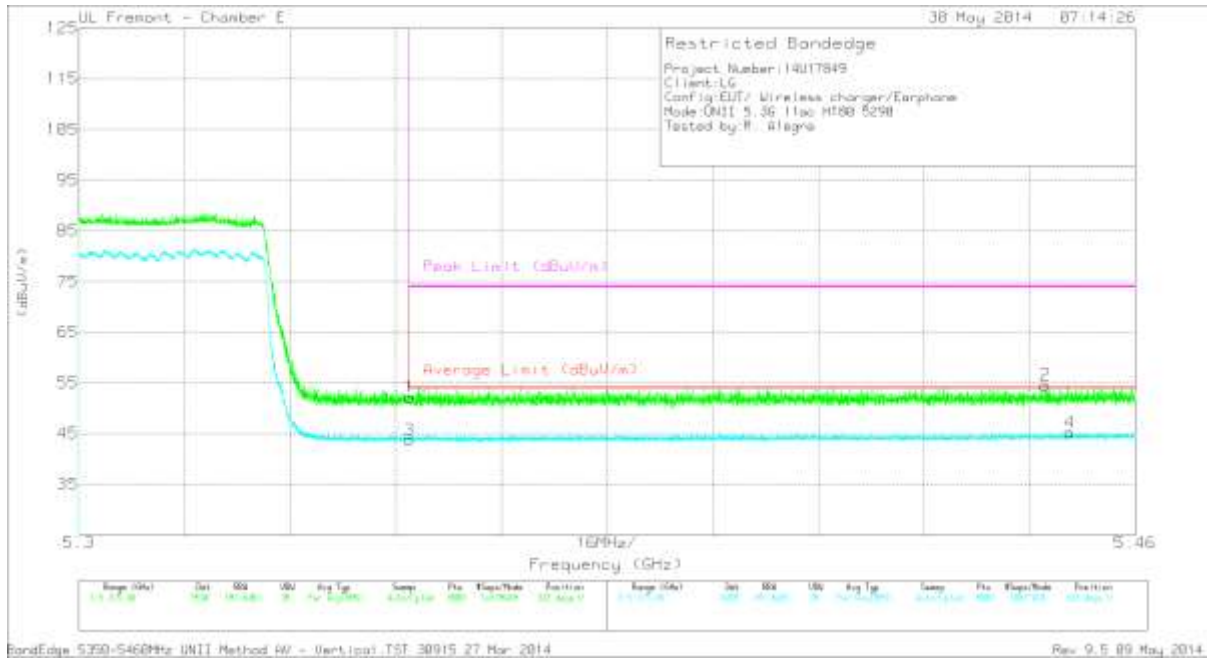
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.2	PK	34.5	-21.4	0	50.3	-	-	74	-23.7	298	179	H
2	* 5.451	40.94	PK	34.6	-20.9	0	54.64	-	-	74	-19.36	298	179	H
3	* 5.35	30.25	RMS	34.5	-21.4	0.85	44.85	54	-9.15	-	-	298	179	H
4	* 5.361	30.84	RMS	34.5	-21.4	0.85	45.44	54	-8.56	-	-	298	179	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.1	PK	34.5	-21.4	0	52.2	-	-	74	-21.8	332	348	V
2	* 5.446	40.87	PK	34.6	-20.9	0	54.57	-	-	74	-19.43	332	348	V
3	* 5.35	29.14	RMS	34.5	-21.4	0.85	43.74	54	-10.26	-	-	332	348	V
4	* 5.45	30.05	RMS	34.6	-20.9	0.85	45.25	54	-8.75	-	-	332	348	V

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

PK - Peak detector

RMS - RMS detection

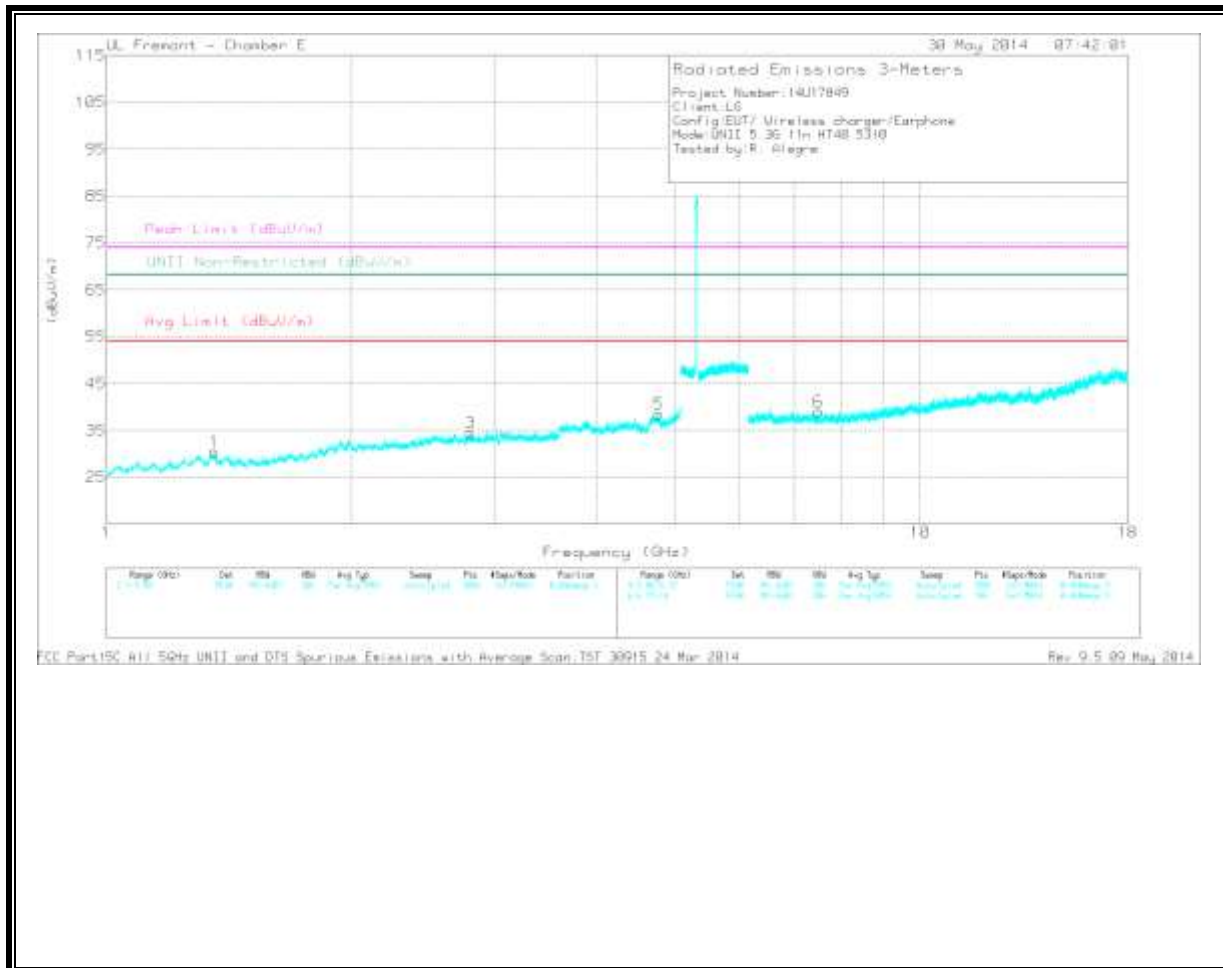
**HARMONICS AND SPURIOUS EMISSIONS WITH WPC CHARGER AND BACK COVER**

HORIZONTAL





VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.415	35.88	PK	28.8	-34.4	0	30.28	-	-	74	-43.72	-	-	0-360	200	H
4	* 2.803	34.19	PK	32.4	-32.1	0	34.49	-	-	74	-39.51	-	-	0-360	101	H
1	* 1.358	35.58	PK	28.9	-34	0	30.48	-	-	74	-43.52	-	-	0-360	101	V
3	* 2.802	34.23	PK	32.4	-32.1	0	34.53	-	-	74	-39.47	-	-	0-360	101	V
5	* 4.772	34.82	PK	34.1	-30.4	0	38.52	-	-	74	-35.48	-	-	0-360	101	V
6	* 7.5	31.88	PK	35.7	-28.5	0	39.08	-	-	74	-34.92	-	-	0-360	200	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.804	42.08	PK1	32.4	-32.1	0	42.38	-	-	74	-31.62	-	-	1	102	H
* 1.414	43.09	PK1	28.8	-34.4	0	37.49	-	-	74	-36.51	-	-	1	200	H
* 4.773	41.16	PK1	34.1	-30.4	0	44.86	-	-	74	-29.14	-	-	1	102	V
* 2.8	42.15	PK1	32.4	-32.1	0	42.45	-	-	74	-31.55	-	-	1	102	V
* 1.356	43.6	PK1	28.9	-34	0	38.5	-	-	74	-35.5	-	-	1	102	V
* 7.5	39.94	PK1	35.7	-28.5	0	47.14	-	-	74	-26.86	-	-	1	200	V
* 7.5	28.75	AD1	35.7	-28.5	0.85	36.45	54	-17.55	-	-	-	-	1	200	V

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

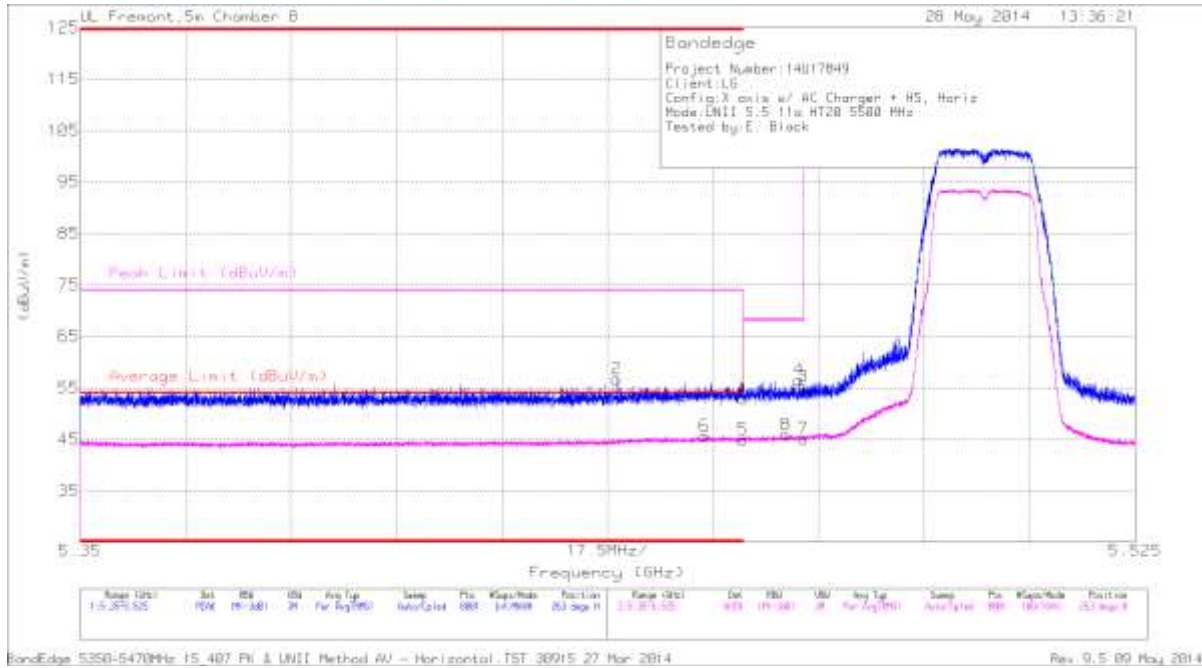
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

### 10.3. 5.5-5.6 GHz

#### 10.3.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND RESTRICTED BANDEGE (LOW CHANNEL)

HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.439	42.26	PK	34.5	-20	0	56.76	-	-	74	-17.24	263	225	H
6	* 5.454	30.99	RMS	34.5	-20.1	.2	45.59	54	-8.41	-	-	263	225	H
1	* 5.46	38.51	PK	34.5	-20.1	0	52.91	-	-	74	-21.09	263	225	H
5	* 5.46	30.37	RMS	34.5	-20.1	.2	44.97	54	-9.03	-	-	263	225	H
8	5.467	31.3	RMS	34.5	-20.1	.2	45.9	-	-	-	-	263	225	H
4	5.469	42.1	PK	34.5	-20	0	56.6	-	-	68.2	-11.6	263	225	H
3	5.47	40.77	PK	34.5	-20	0	55.27	-	-	68.2	-12.93	263	225	H
7	5.47	30.39	RMS	34.5	-20	.2	45.09	-	-	-	-	263	225	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.402	41.74	PK	34.5	-20.1	0	56.14	-	-	74	-17.86	316	272	V
6	* 5.453	30.45	RMS	34.5	-20.1	.2	45.05	54	-8.95	-	-	316	272	V
1	* 5.46	38.51	PK	34.5	-20.1	0	52.91	-	-	74	-21.09	316	272	V
5	* 5.46	29.91	RMS	34.5	-20.1	.2	44.51	54	-9.49	-	-	316	272	V
4	5.461	40.96	PK	34.5	-20.1	0	55.36	-	-	68.2	-12.84	316	272	V
3	5.47	38.79	PK	34.5	-20	0	53.29	-	-	68.2	-14.91	316	272	V
7	5.47	29.95	RMS	34.5	-20	.2	44.65	-	-	-	-	316	272	V
8	5.47	30.47	RMS	34.5	-20	.2	45.17	-	-	-	-	316	272	V

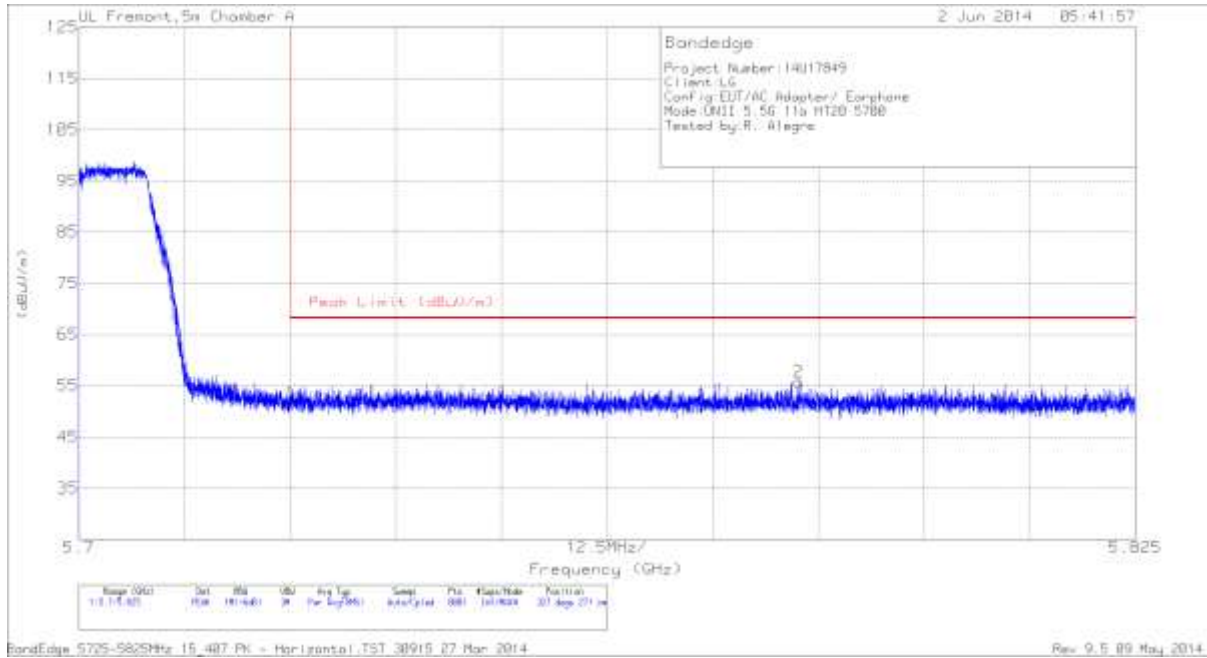
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEGE (HIGH CHANNEL)**

**HORIZONTAL**



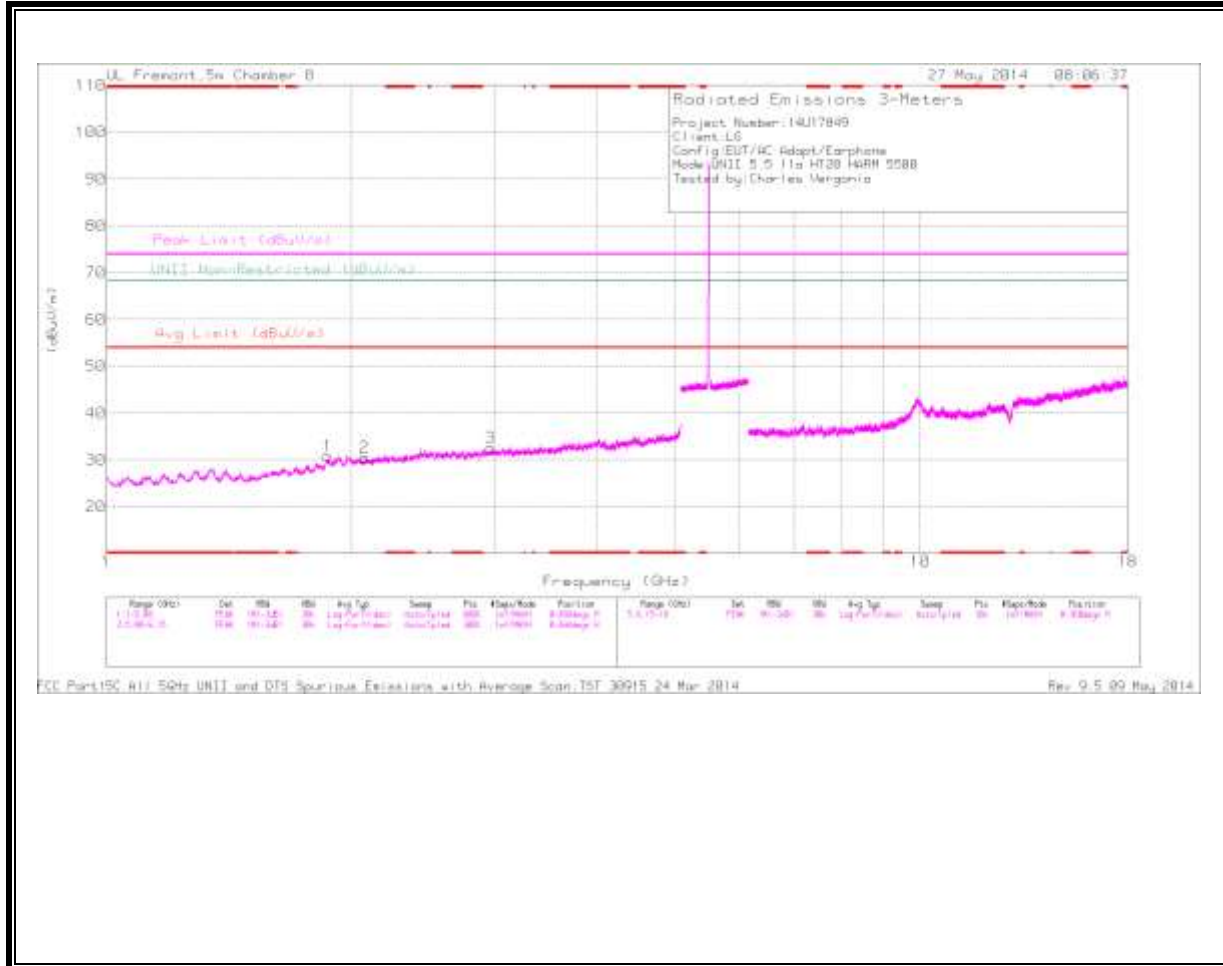
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.64	PK	34.6	-19.6	51.64	68.2	-16.56	327	271	H
2	5.785	40.42	PK	34.7	-19.3	55.82	68.2	-12.38	327	271	H

PK - Peak detector



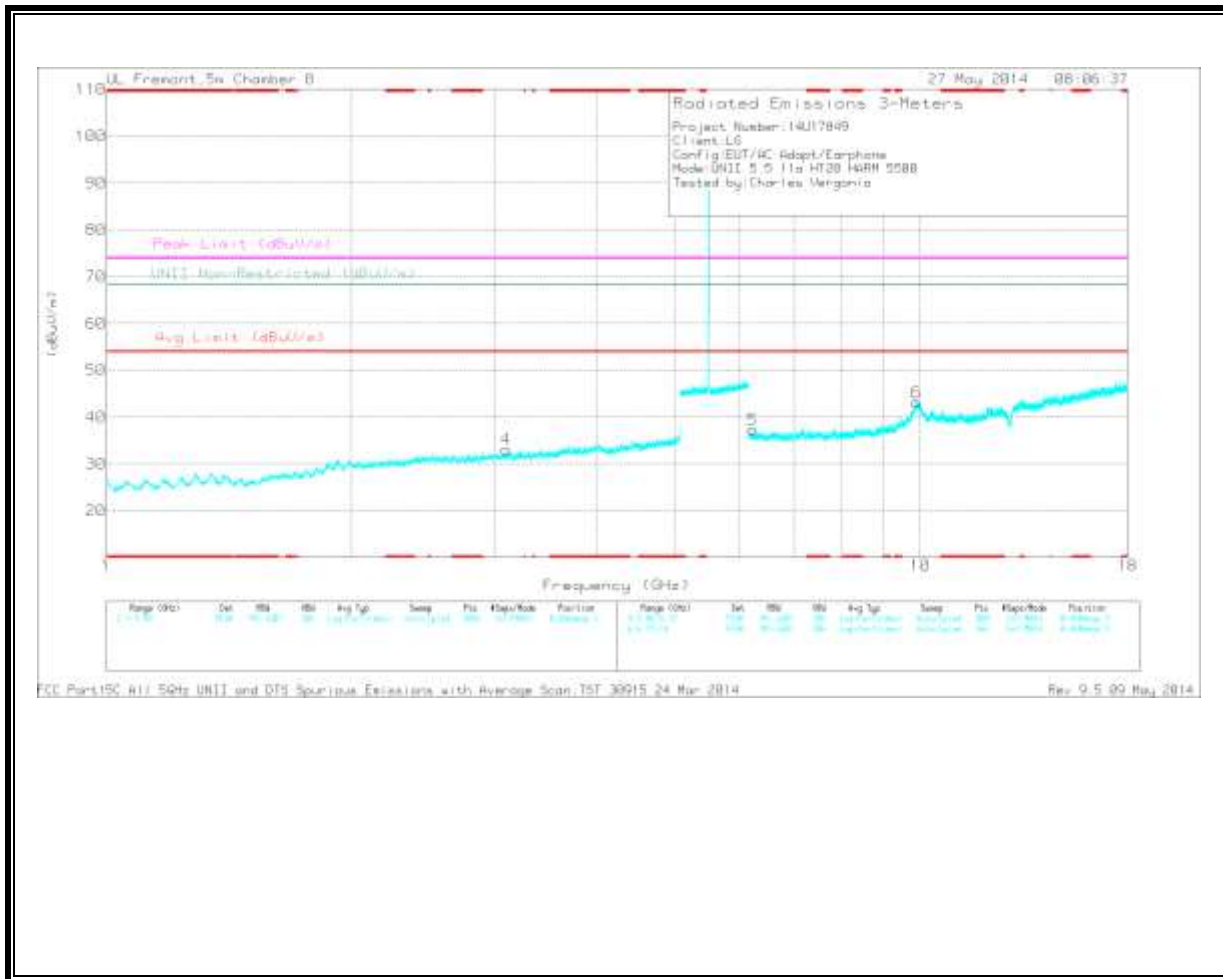
### HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

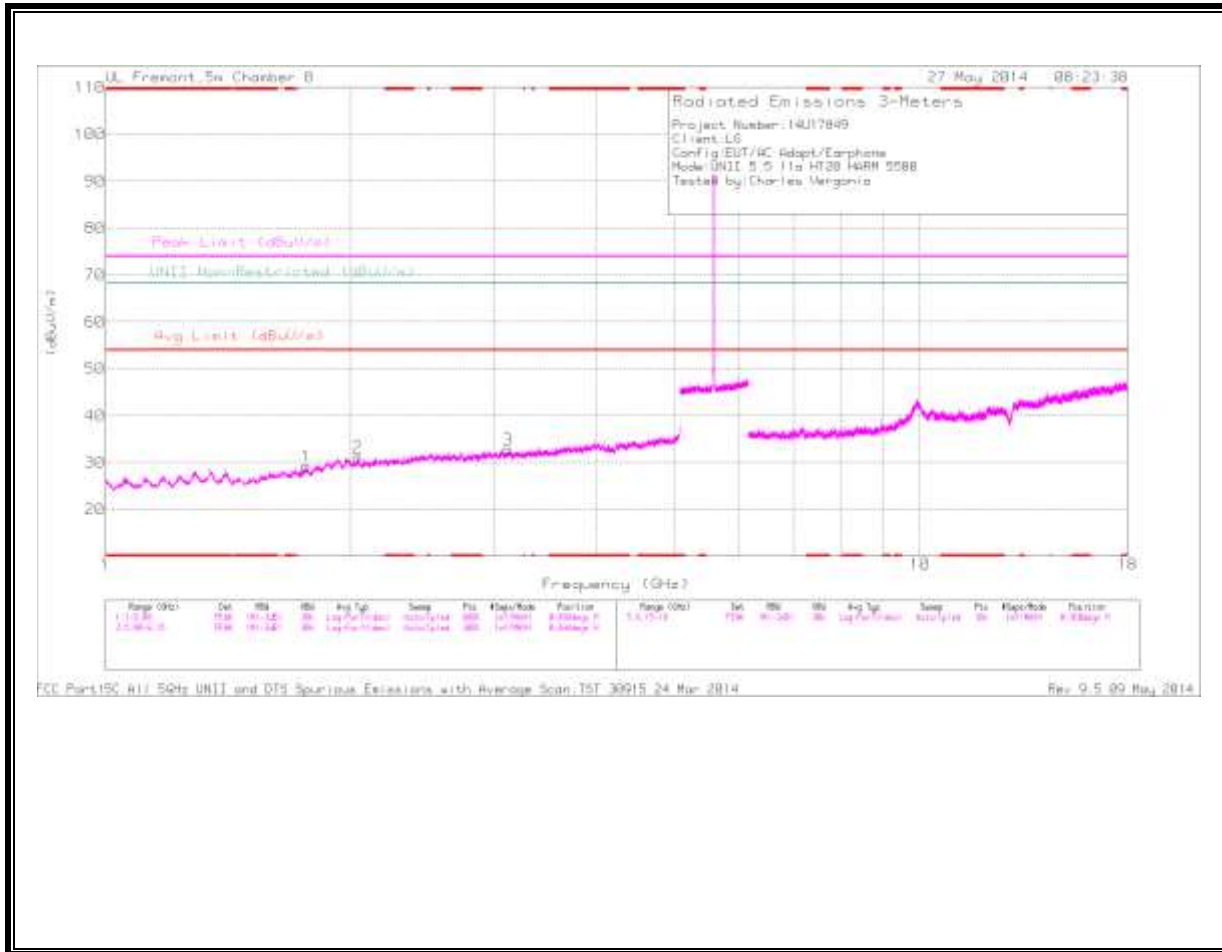


LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.869	33.18	PK	30.8	-33.2	30.78	54	-23.22	-	-	68.2	-37.42	0-360	99	H
2	2.078	33.13	PK	31.3	-33.8	30.63	54	-23.37	-	-	68.2	-37.57	0-360	202	H
3	2.965	31.79	PK	32.7	-31.9	32.59	54	-21.41	-	-	68.2	-35.61	0-360	99	H
4	3.099	32.29	PK	32.9	-32	33.19	54	-20.81	-	-	68.2	-35.01	0-360	99	V
5	6.231	30.39	PK	35.4	-28.5	37.29	54	-16.71	-	-	68.2	-30.91	0-360	99	V
6	9.887	30.25	PK	37	-24.1	43.15	54	-10.85	-	-	68.2	-25.05	0-360	99	V

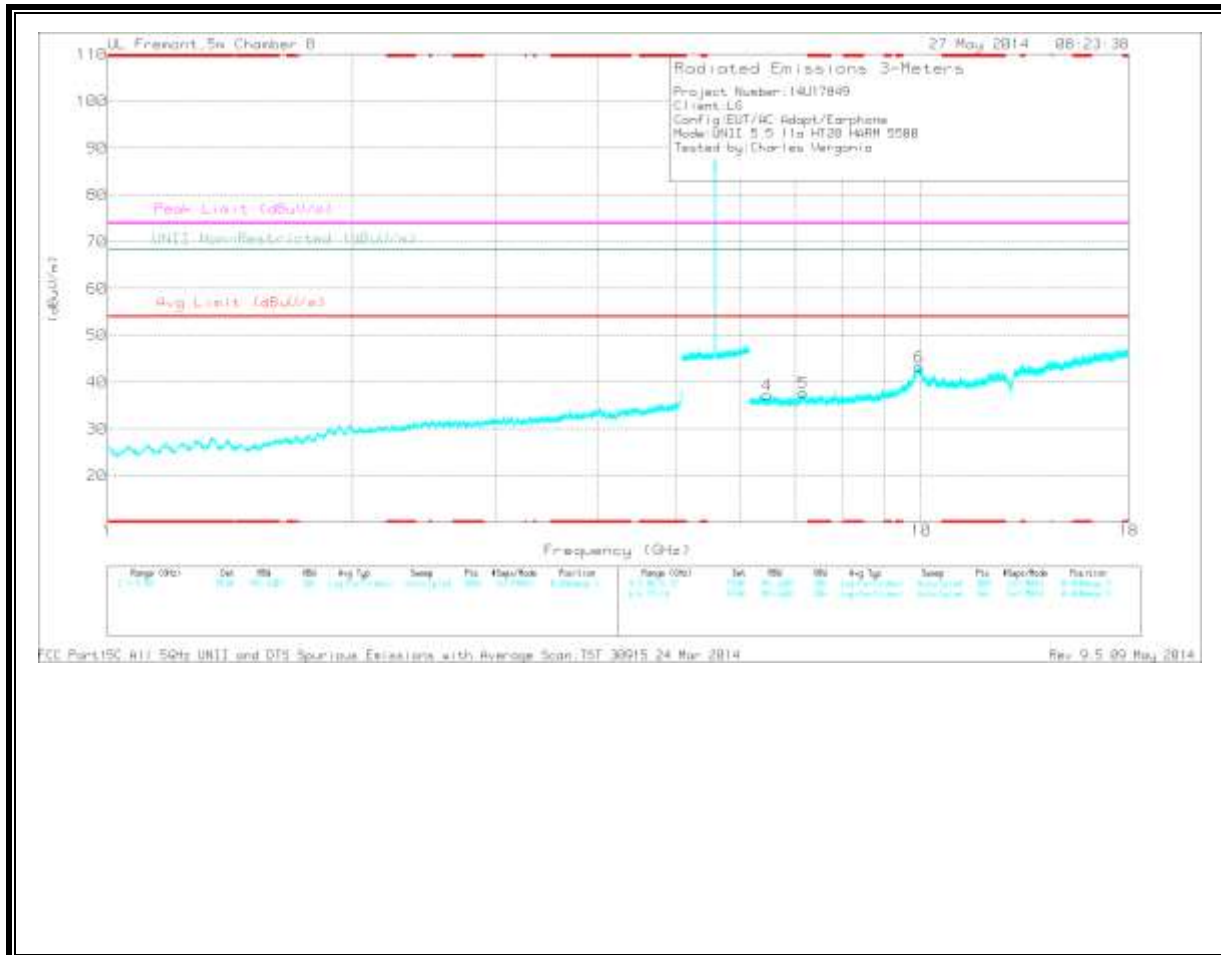
PK - Peak detector

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



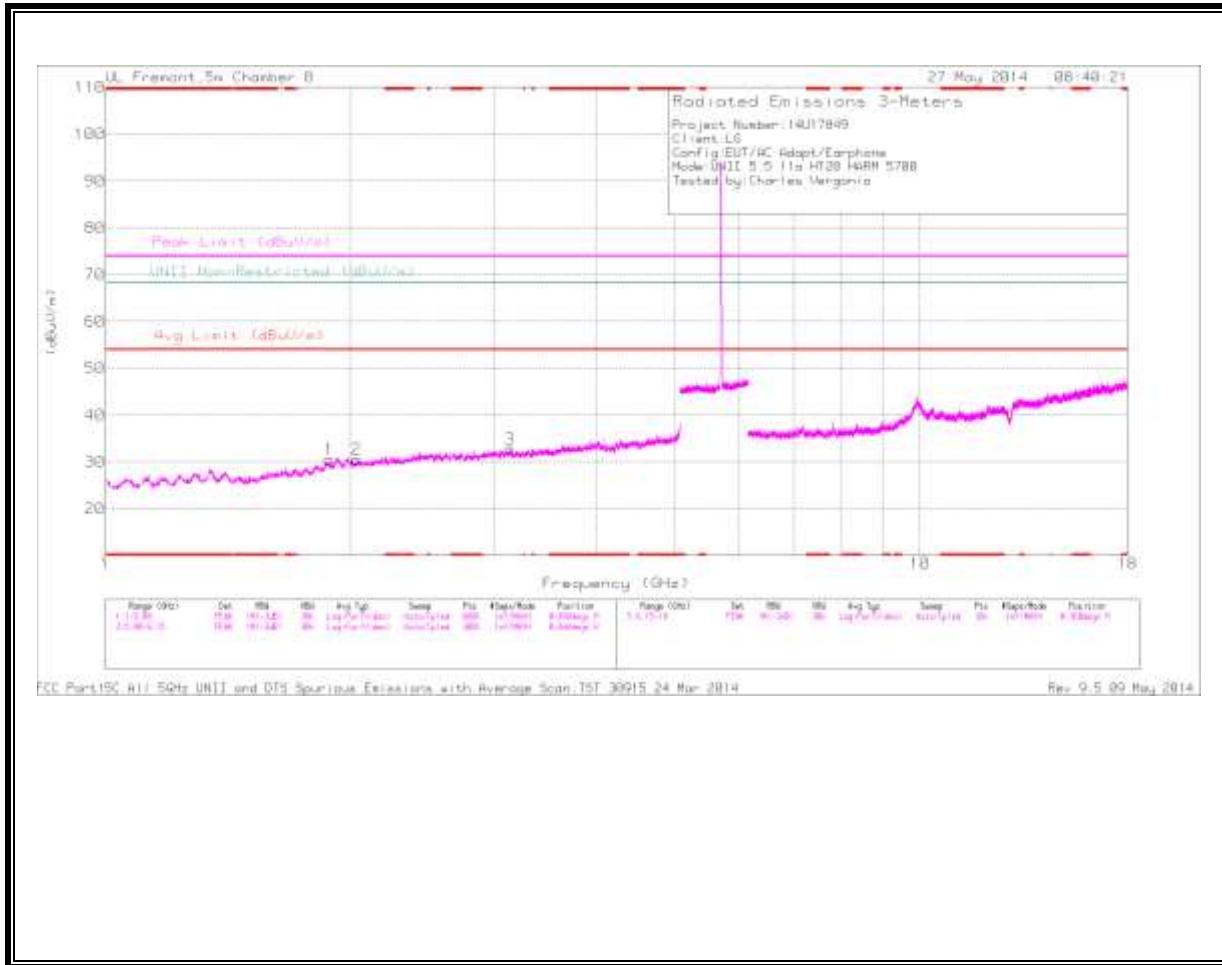
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.763	33.51	PK	29.8	-34	29.31	-	-	-	-	68.2	-38.89	0-360	99	H
2	2.04	33.35	PK	31.3	-33.6	31.05	-	-	-	-	68.2	-37.15	0-360	99	H
3	3.123	31.83	PK	32.8	-31.8	32.83	-	-	-	-	68.2	-35.37	0-360	99	H
4	6.471	30.79	PK	35.6	-29.2	37.19	-	-	-	-	68.2	-31.01	0-360	202	V
5	7.161	29.24	PK	35.6	-27.1	37.74	-	-	-	-	68.2	-30.46	0-360	99	V
6	9.936	30.11	PK	37	-23.9	43.21	-	-	-	-	68.2	-24.99	0-360	202	V

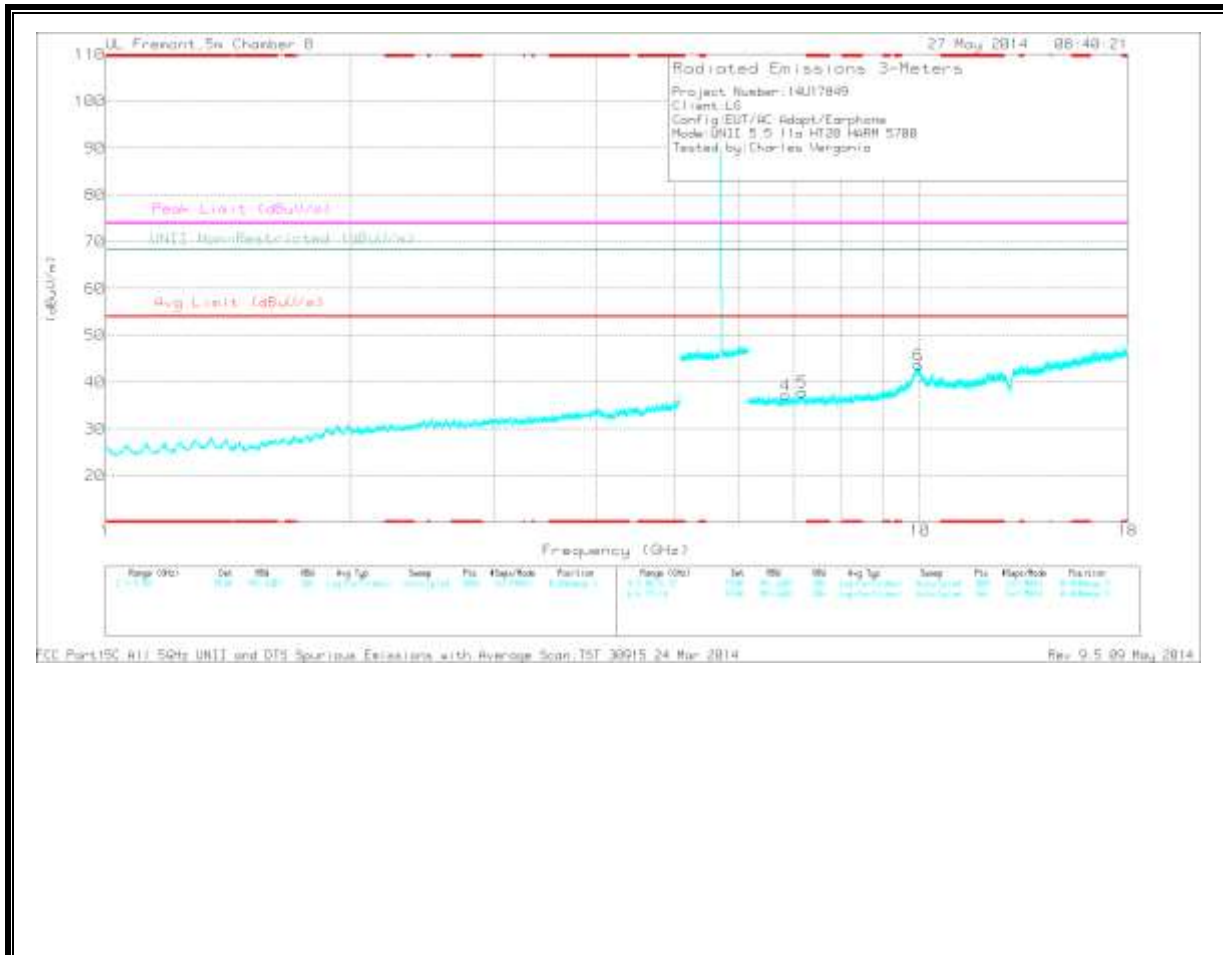
PK - Peak detector

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

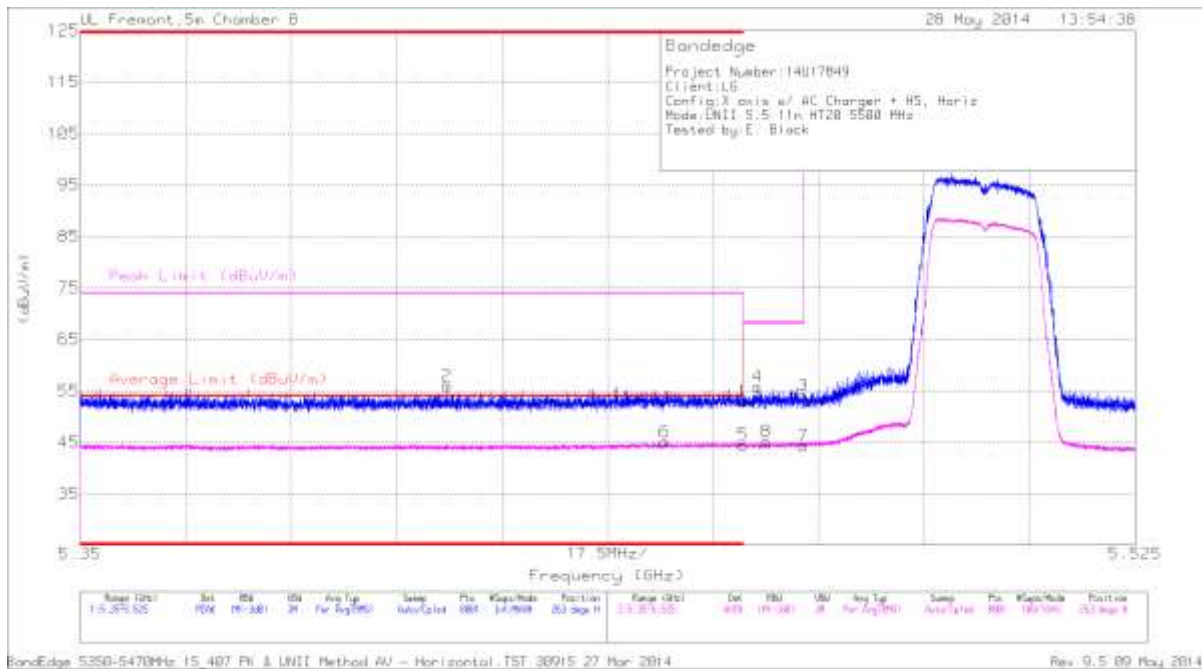
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.881	32.78	PK	30.9	-33.1	30.58	-	-	-	-	68.2	-37.62	0-360	202	H
2	2.035	32.91	PK	31.3	-33.6	30.61	-	-	-	-	68.2	-37.59	0-360	202	H
3	3.137	31.63	PK	32.8	-31.6	32.83	-	-	-	-	68.2	-35.37	0-360	99	H
4	6.842	30.04	PK	35.6	-28.5	37.14	-	-	-	-	68.2	-31.06	0-360	202	V
5	7.175	28.89	PK	35.6	-26.7	37.79	-	-	-	-	68.2	-30.41	0-360	202	V
6	9.968	30.74	PK	37	-24	43.74	-	-	-	-	68.2	-24.46	0-360	202	V

PK - Peak detector

### 10.3.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.411	41.59	PK	34.5	-20.1	0	55.99	-	-	74	-18.01	263	272	H
6	* 5.447	30.45	RMS	34.5	-20.1	.2	45.05	54	-8.95	-	-	263	272	H
1	* 5.46	38.51	PK	34.5	-20.1	0	52.91	-	-	74	-21.09	263	272	H
5	* 5.46	29.93	RMS	34.5	-20.1	.2	44.53	54	-9.47	-	-	263	272	H
4	5.462	41.36	PK	34.5	-20.1	0	55.76	-	-	68.2	-12.44	263	272	H
8	5.464	30.55	RMS	34.5	-20.1	.2	45.15	-	-	-	-	263	272	H
3	5.47	39.59	PK	34.5	-20	0	54.09	-	-	68.2	-14.11	263	272	H
7	5.47	29.63	RMS	34.5	-20	.2	44.33	-	-	-	-	263	272	H

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

PK - Peak detector

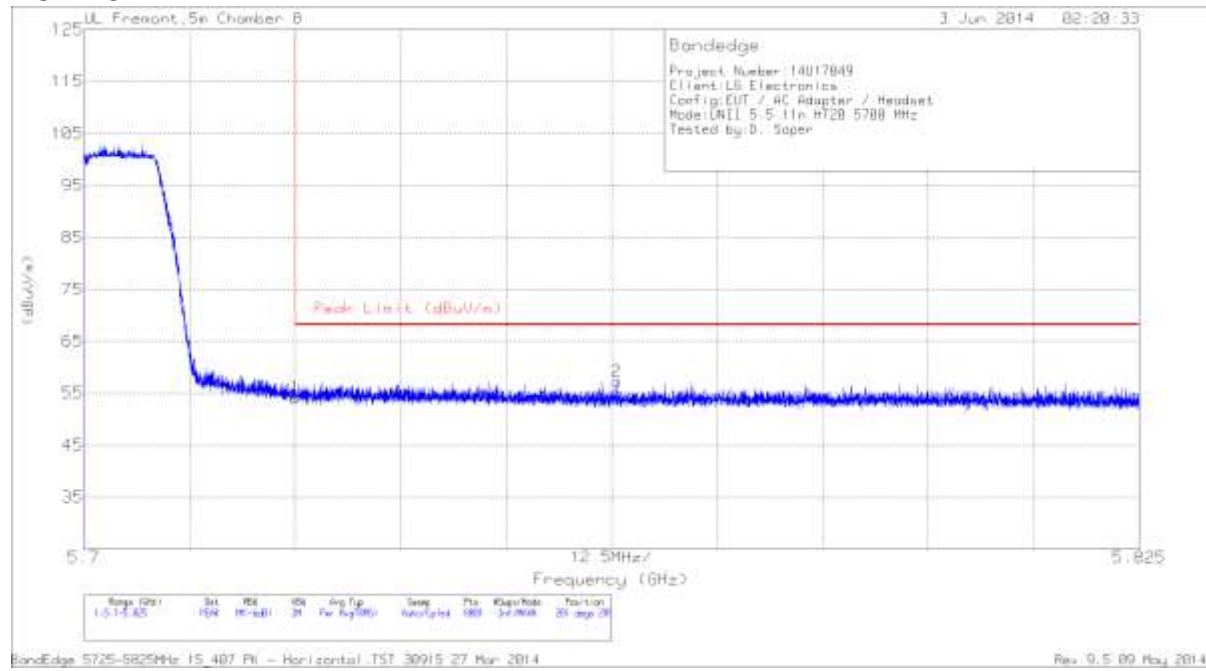
RMS - RMS detection





### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL

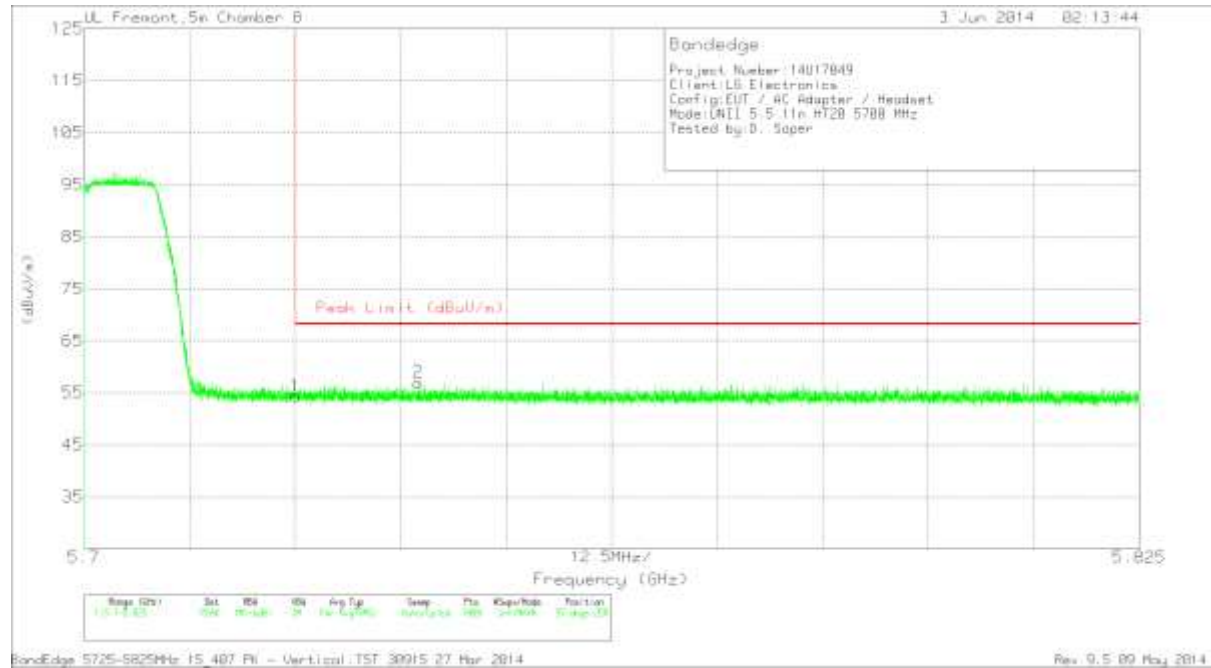


#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.49	PK	34.6	-19.9	54.19	68.2	-14.01	281	285	H
2	5.763	42.55	PK	34.6	-19.9	57.25	68.2	-10.95	281	285	H

PK - Peak detector

VERTICAL



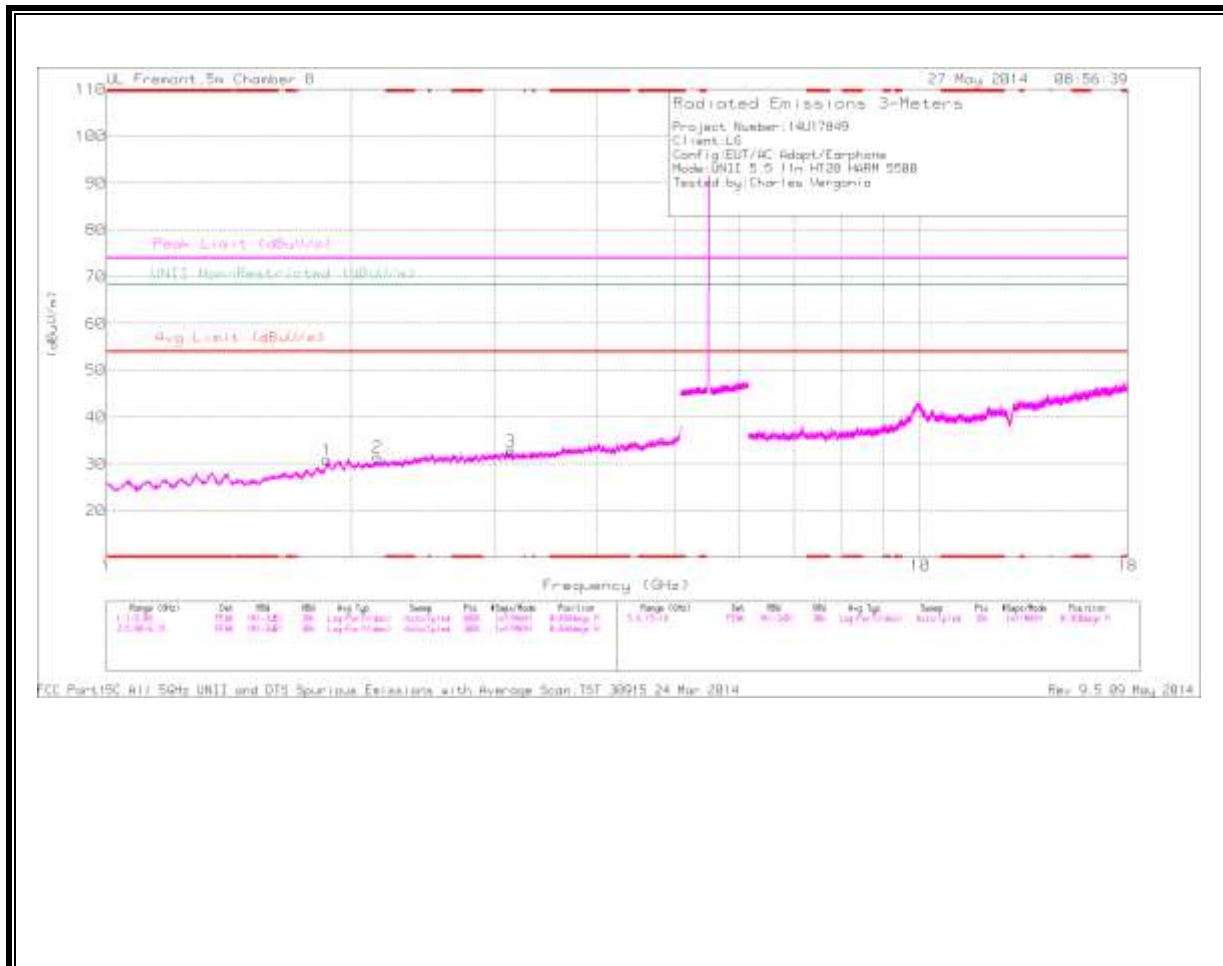
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.7	PK	34.6	-19.9	54.4	68.2	-13.8	97	258	V
2	5.74	42.19	PK	34.6	-19.8	56.99	68.2	-11.21	97	258	V

PK - Peak detector

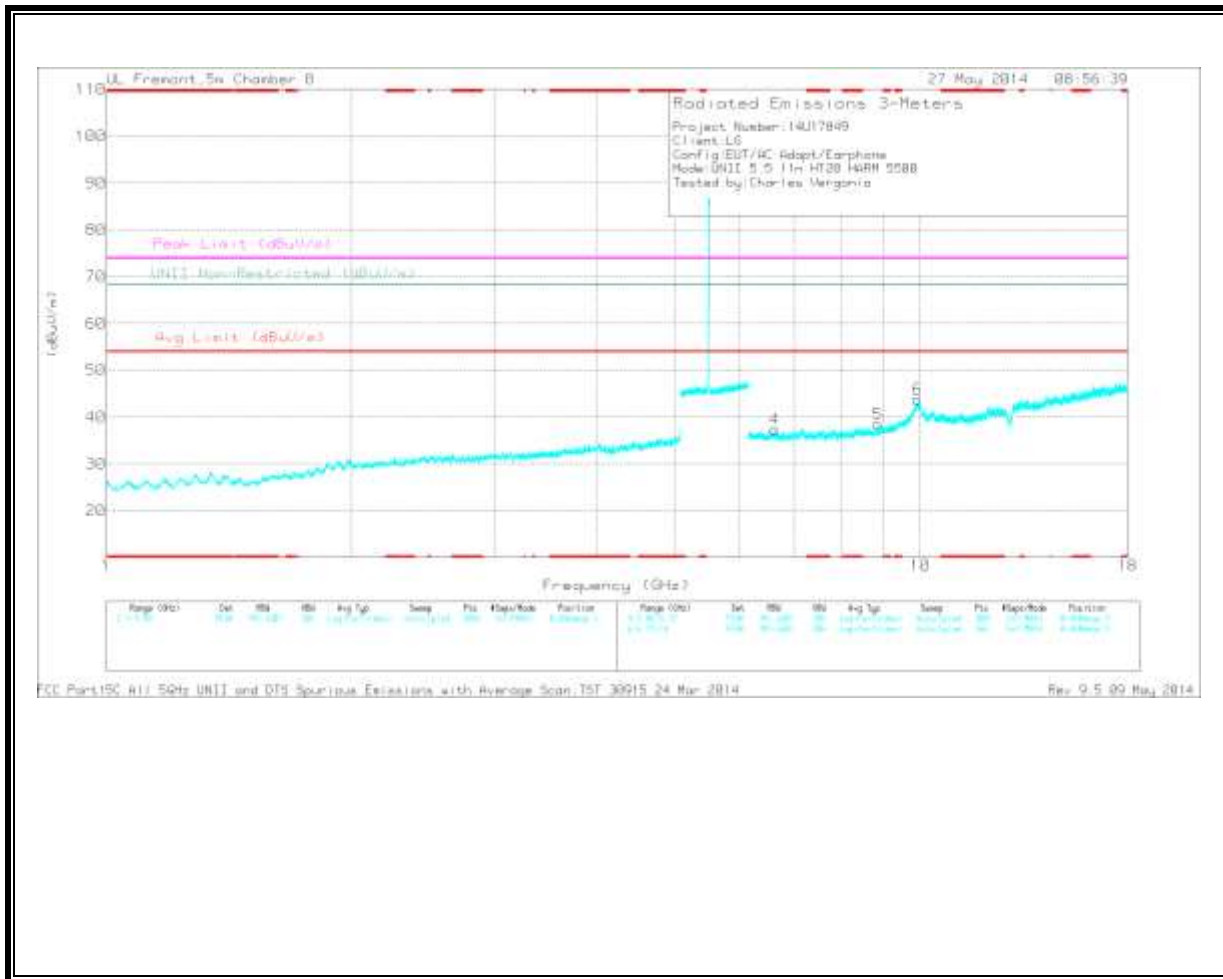
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



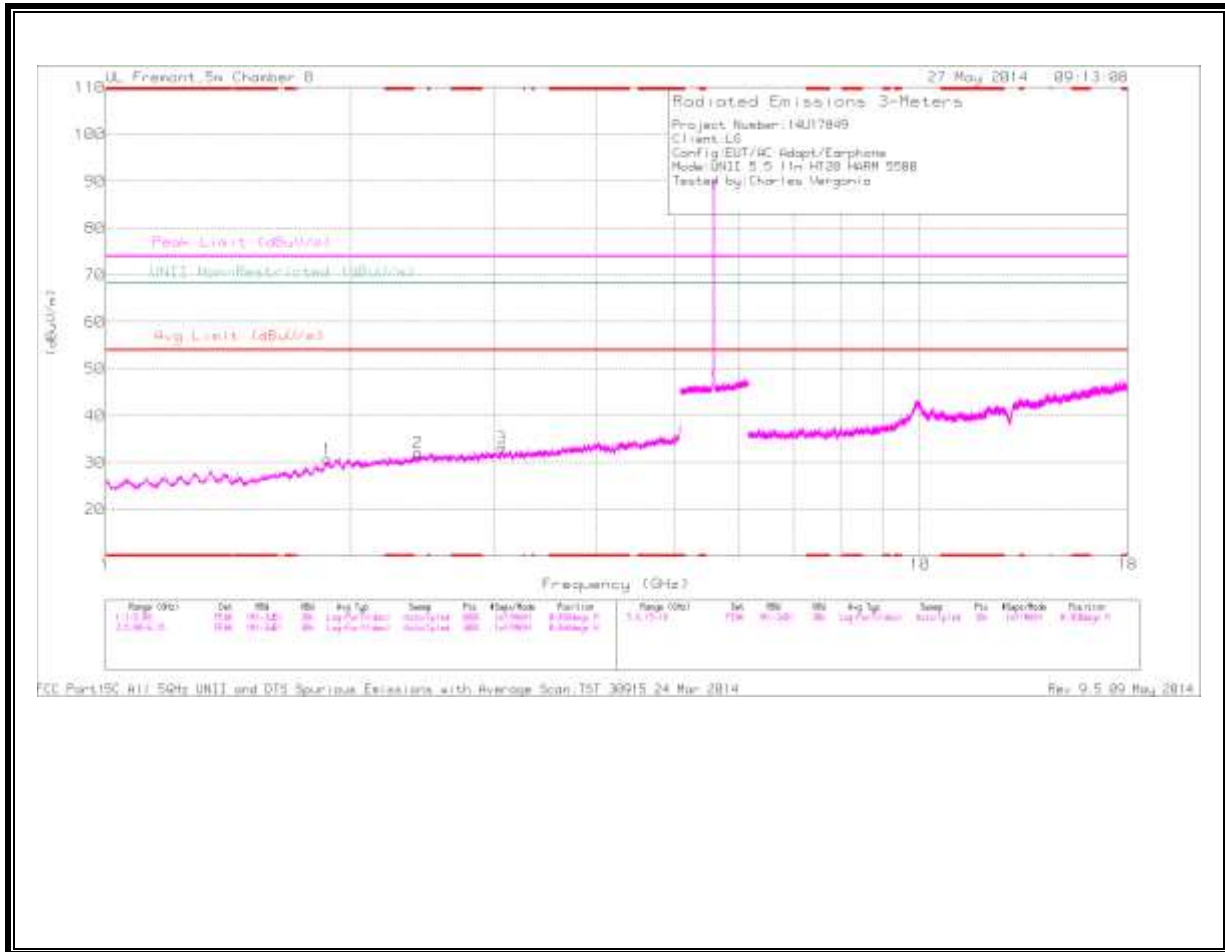
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/CbI/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.868	33.32	PK	30.8	-33.3	30.82	-	-	-	-	68.2	-37.38	0-360	99	H
2	2.151	32.83	PK	31.3	-32.7	31.43	-	-	-	-	68.2	-36.77	0-360	99	H
3	3.141	31.56	PK	32.8	-31.6	32.76	-	-	-	-	68.2	-35.44	0-360	99	H
4	6.628	29.89	PK	35.7	-28.2	37.39	-	-	-	-	68.2	-30.81	0-360	99	V
5	8.881	27.84	PK	36.1	-25.5	38.44	-	-	-	-	68.2	-29.76	0-360	202	V
6	9.924	30.69	PK	37	-23.9	43.79	-	-	-	-	68.2	-24.41	0-360	99	V

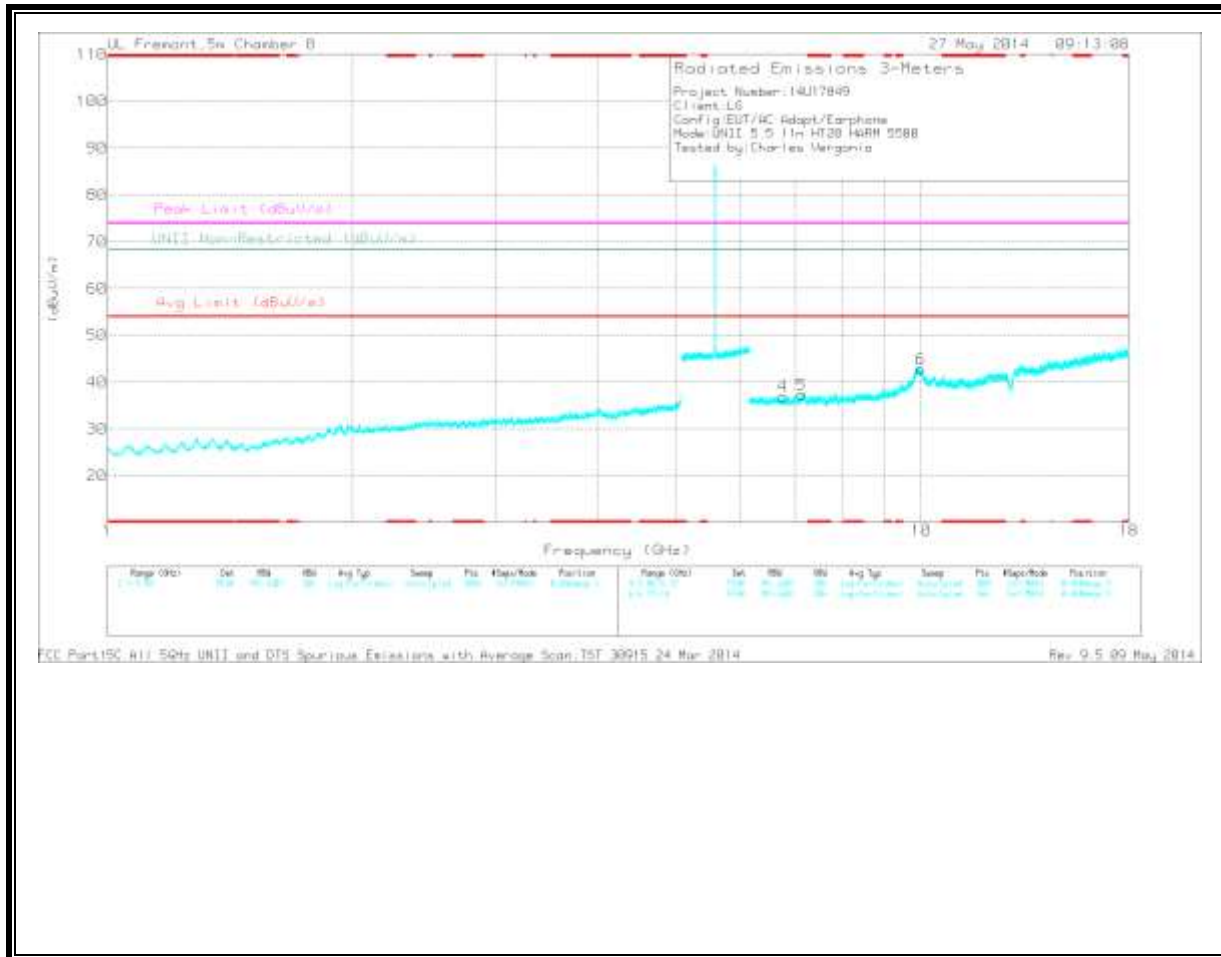
PK - Peak detector

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

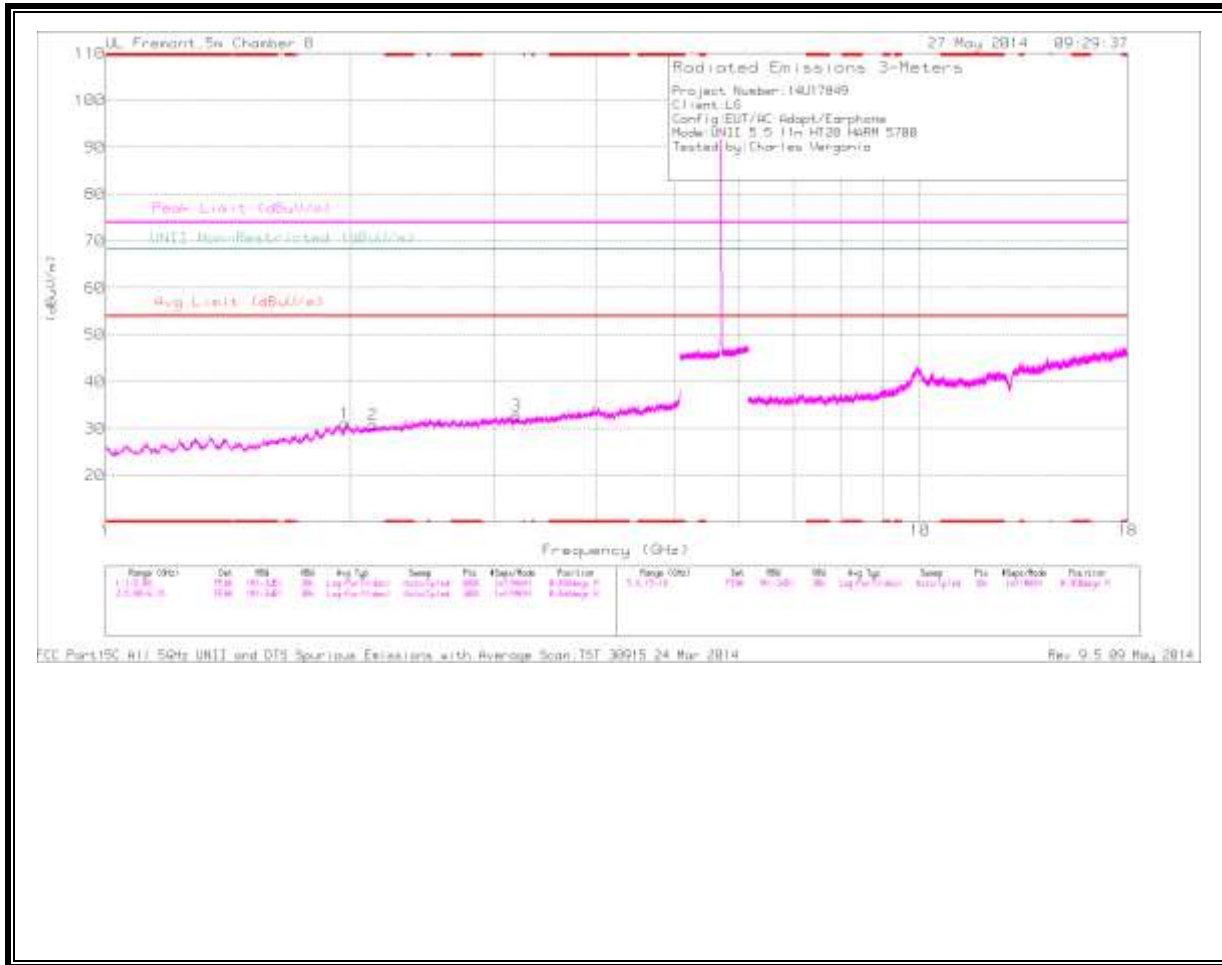


MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.872	33.15	PK	30.8	-33.2	30.75	-	-	-	-	68.2	-37.45	0-360	99	H
2	2.418	32.33	PK	32.2	-32.4	32.13	-	-	-	-	68.2	-36.07	0-360	99	H
3	3.065	32.54	PK	32.8	-32.2	33.14	-	-	-	-	68.2	-35.06	0-360	99	H
4	6.77	29.3	PK	35.7	-28	37	-	-	-	-	68.2	-31.2	0-360	99	V
5	7.131	29.62	PK	35.6	-27.9	37.32	-	-	-	-	68.2	-30.88	0-360	99	V
6	9.989	29.54	PK	37	-23.8	42.74	-	-	-	-	68.2	-25.46	0-360	99	V

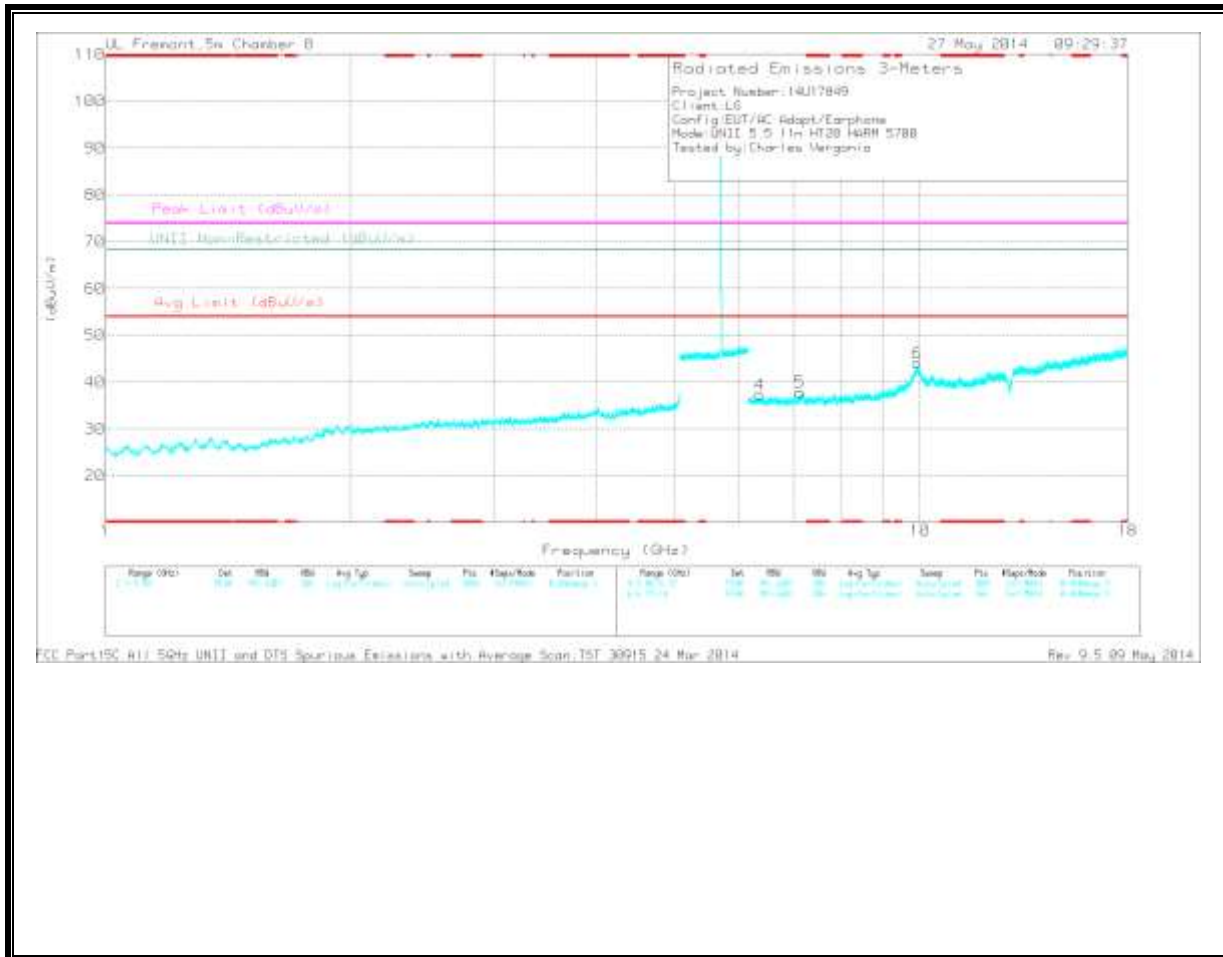
PK - Peak detector

HIGH CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

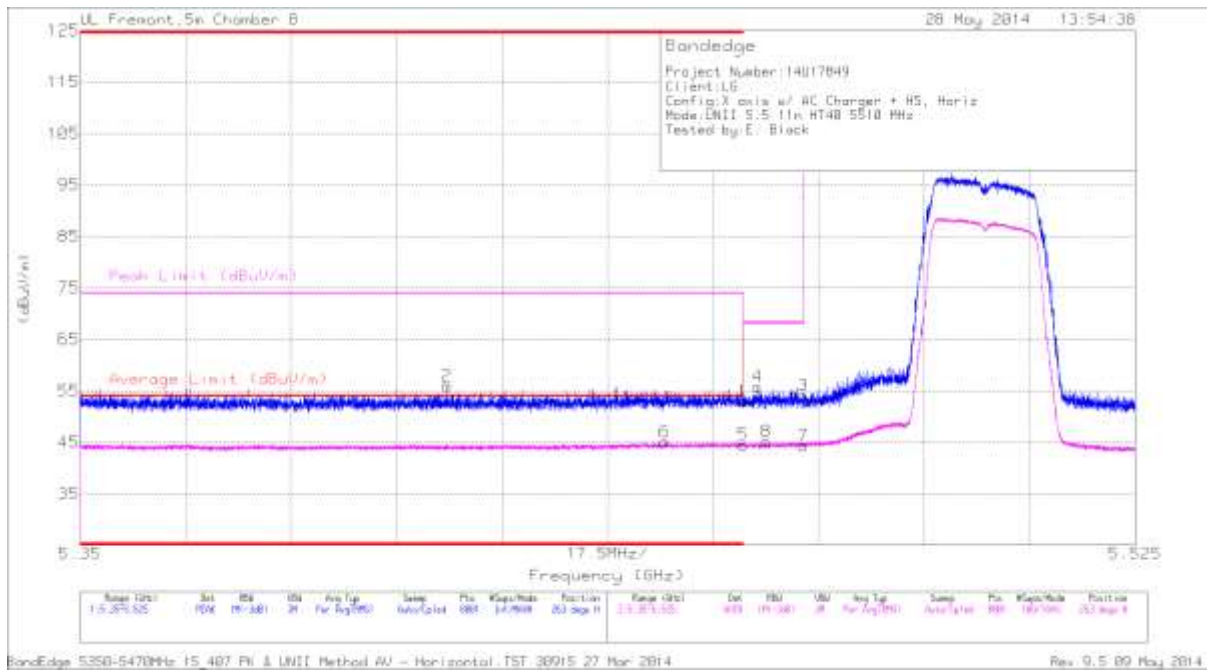
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.969	32.58	PK	31.3	-32.8	31.08	-	-	-	-	68.2	-37.12	0-360	202	H
2	2.132	32.69	PK	31.3	-33.1	30.89	-	-	-	-	68.2	-37.31	0-360	202	H
3	3.198	31.65	PK	32.8	-31.7	32.75	-	-	-	-	68.2	-35.45	0-360	202	H
4	6.357	29.69	PK	35.6	-28	37.29	-	-	-	-	68.2	-30.91	0-360	99	V
5	7.128	30.19	PK	35.6	-27.9	37.89	-	-	-	-	68.2	-30.31	0-360	202	V
6	9.925	30.99	PK	37	-23.9	44.09	-	-	-	-	68.2	-24.11	0-360	202	V

PK - Peak detector

### 10.3.6. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL



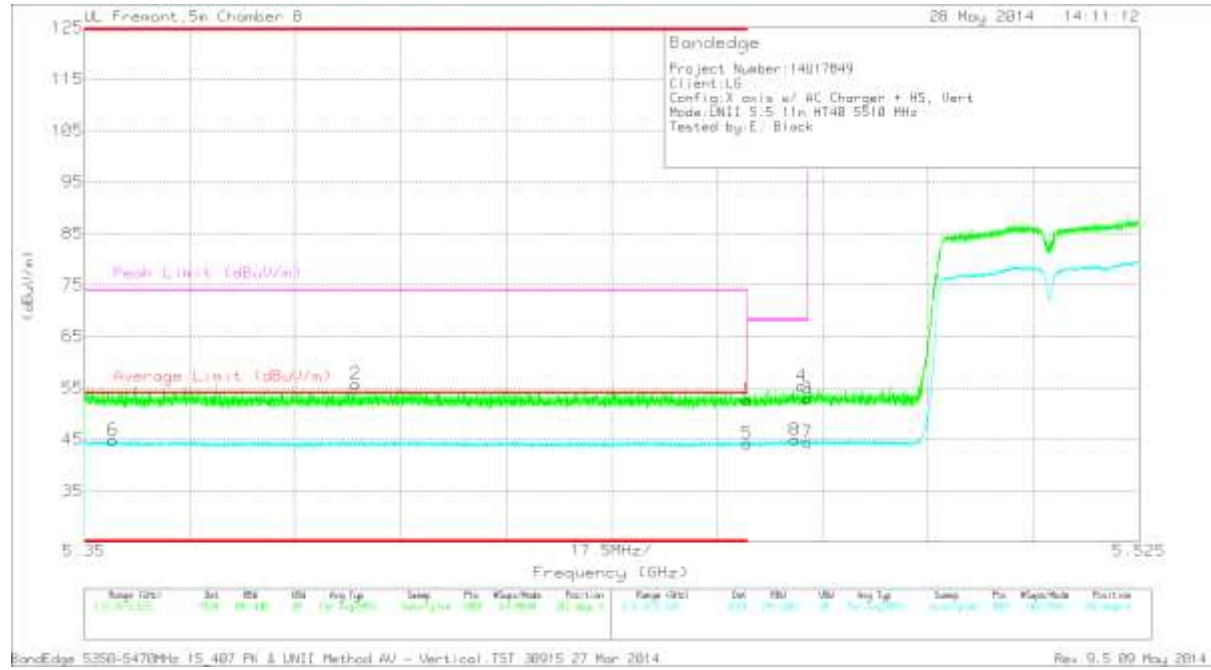
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.411	41.59	PK	34.5	-20.1	0	55.99	-	-	74	-18.01	263	272	H
6	* 5.447	30.45	RMS	34.5	-20.1	.5	45.05	54	-8.95	-	-	263	272	H
1	* 5.46	38.51	PK	34.5	-20.1	0	52.91	-	-	74	-21.09	263	272	H
5	* 5.46	29.93	RMS	34.5	-20.1	.5	44.53	54	-9.47	-	-	263	272	H
4	5.462	41.36	PK	34.5	-20.1	0	55.76	-	-	68.2	-12.44	263	272	H
8	5.464	30.55	RMS	34.5	-20.1	.5	45.15	-	-	-	-	263	272	H
3	5.47	39.59	PK	34.5	-20	0	54.09	-	-	68.2	-14.11	263	272	H
7	5.47	29.63	RMS	34.5	-20	.5	44.33	-	-	-	-	263	272	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 5.355	29.88	RMS	34.5	-20	.5	44.88	54	-9.12	-	-	342	136	V
2	* 5.395	41.33	PK	34.5	-20.1	0	55.73	-	-	74	-18.27	342	136	V
1	* 5.46	38.35	PK	34.5	-20.1	0	52.75	-	-	74	-21.25	342	136	V
5	* 5.46	29.37	RMS	34.5	-20.1	.5	44.27	54	-9.73	-	-	342	136	V
8	5.468	29.95	RMS	34.5	-20	.5	44.95	-	-	-	-	342	136	V
4	5.469	40.87	PK	34.5	-20	0	55.37	-	-	68.2	-12.83	342	136	V
3	5.47	38.46	PK	34.5	-20	0	52.96	-	-	68.2	-15.24	342	136	V
7	5.47	29.47	RMS	34.5	-20	.5	44.47	-	-	-	-	342	136	V

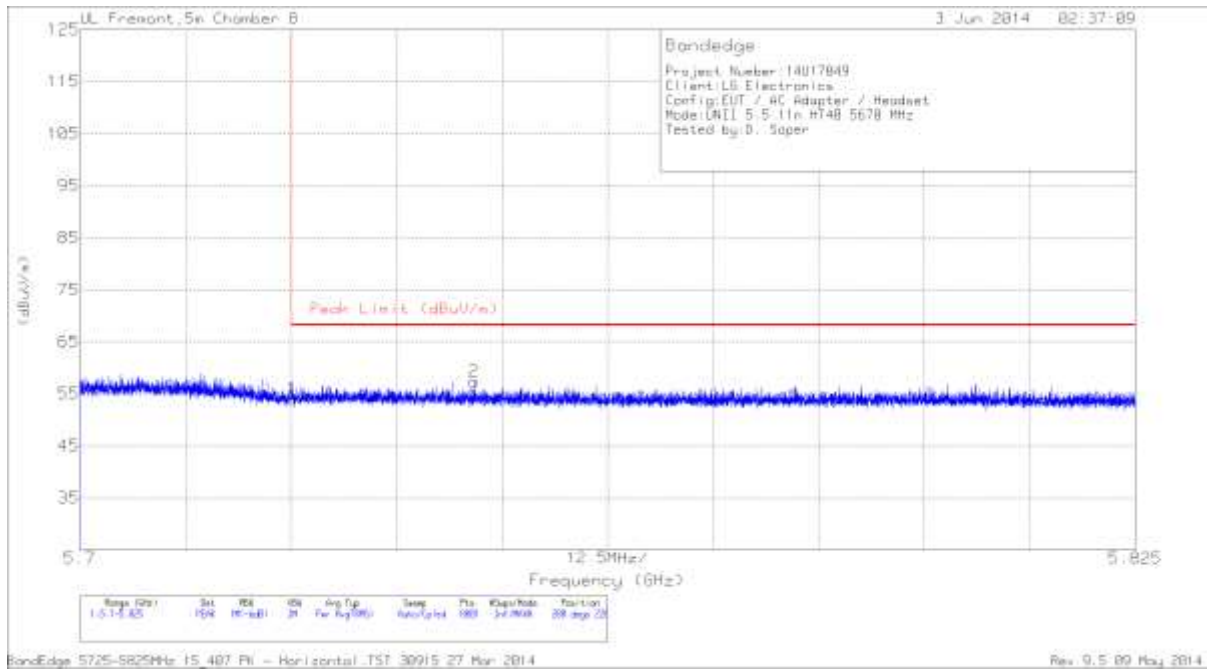
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL

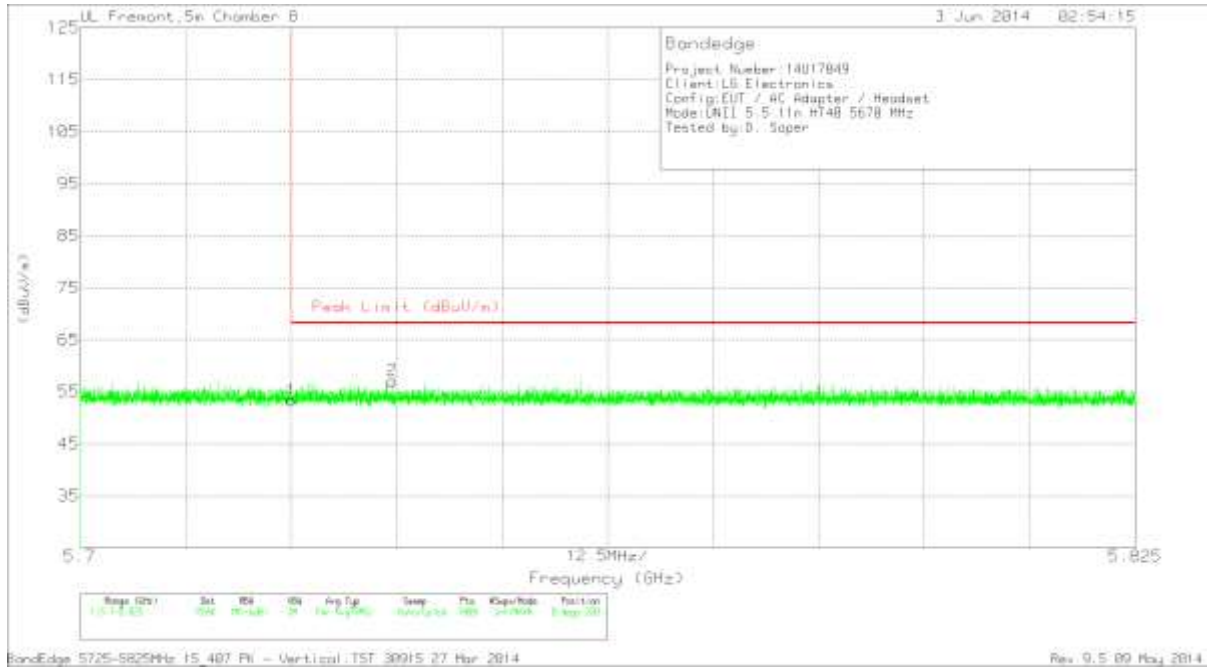


#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.32	PK	34.6	-19.9	54.02	68.2	-14.18	280	220	H
2	5.747	42.6	PK	34.6	-19.8	57.4	68.2	-10.8	280	220	H

PK - Peak detector

VERTICAL



Trace Markers

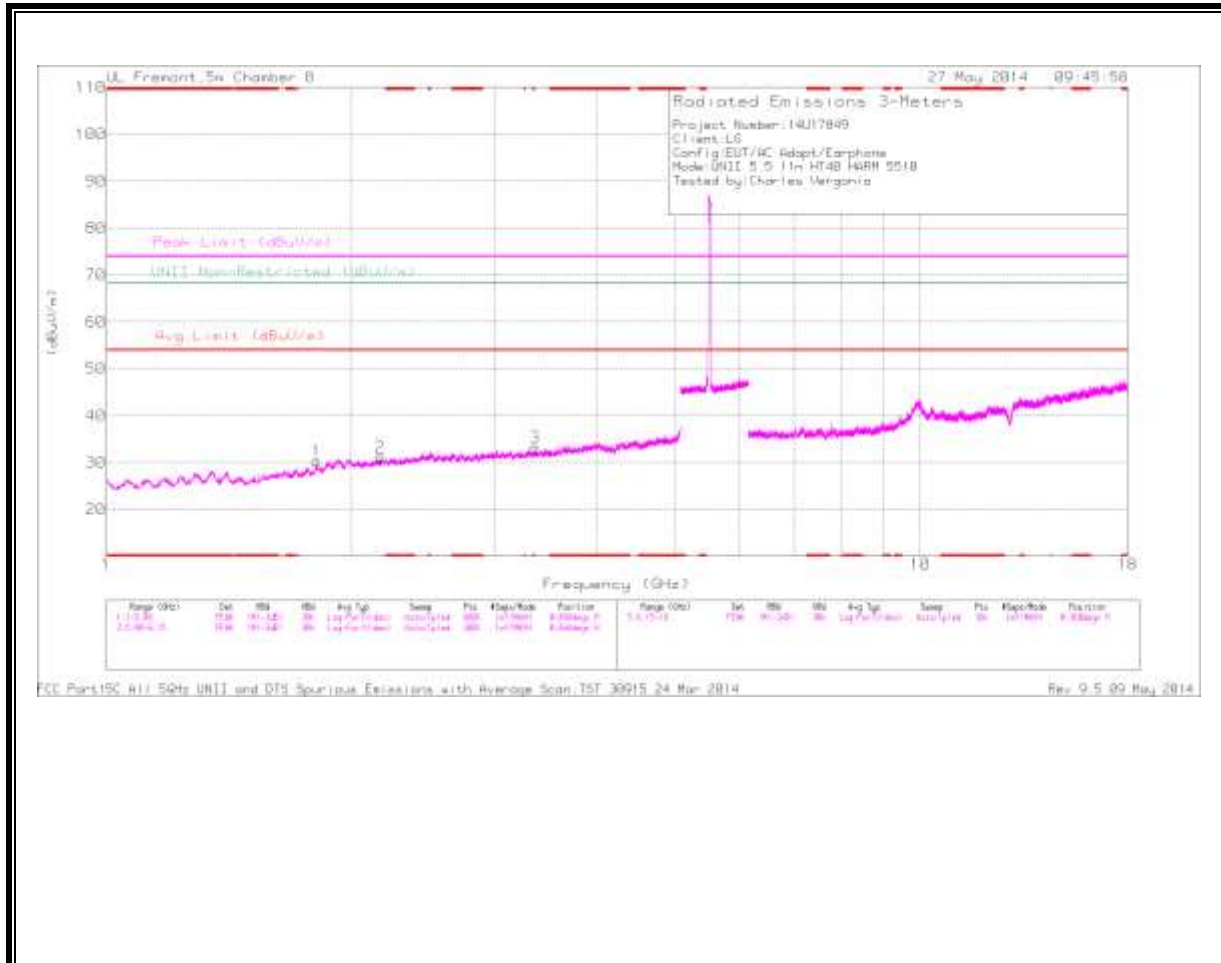
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.63	PK	34.6	-19.9	53.33	68.2	-14.87	0	250	V
2	5.737	42.33	PK	34.6	-19.8	57.13	68.2	-11.07	0	250	V

PK - Peak detector



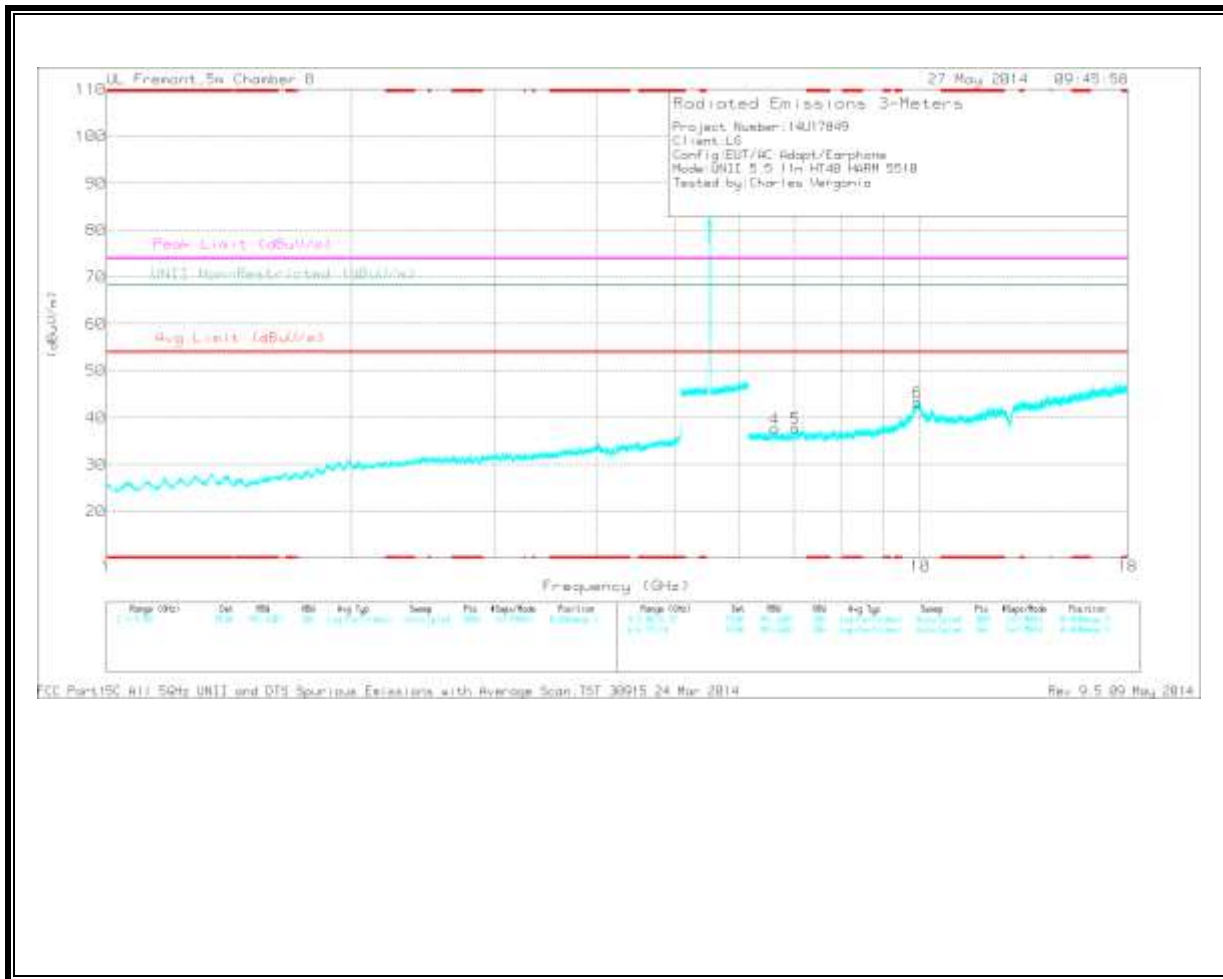
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



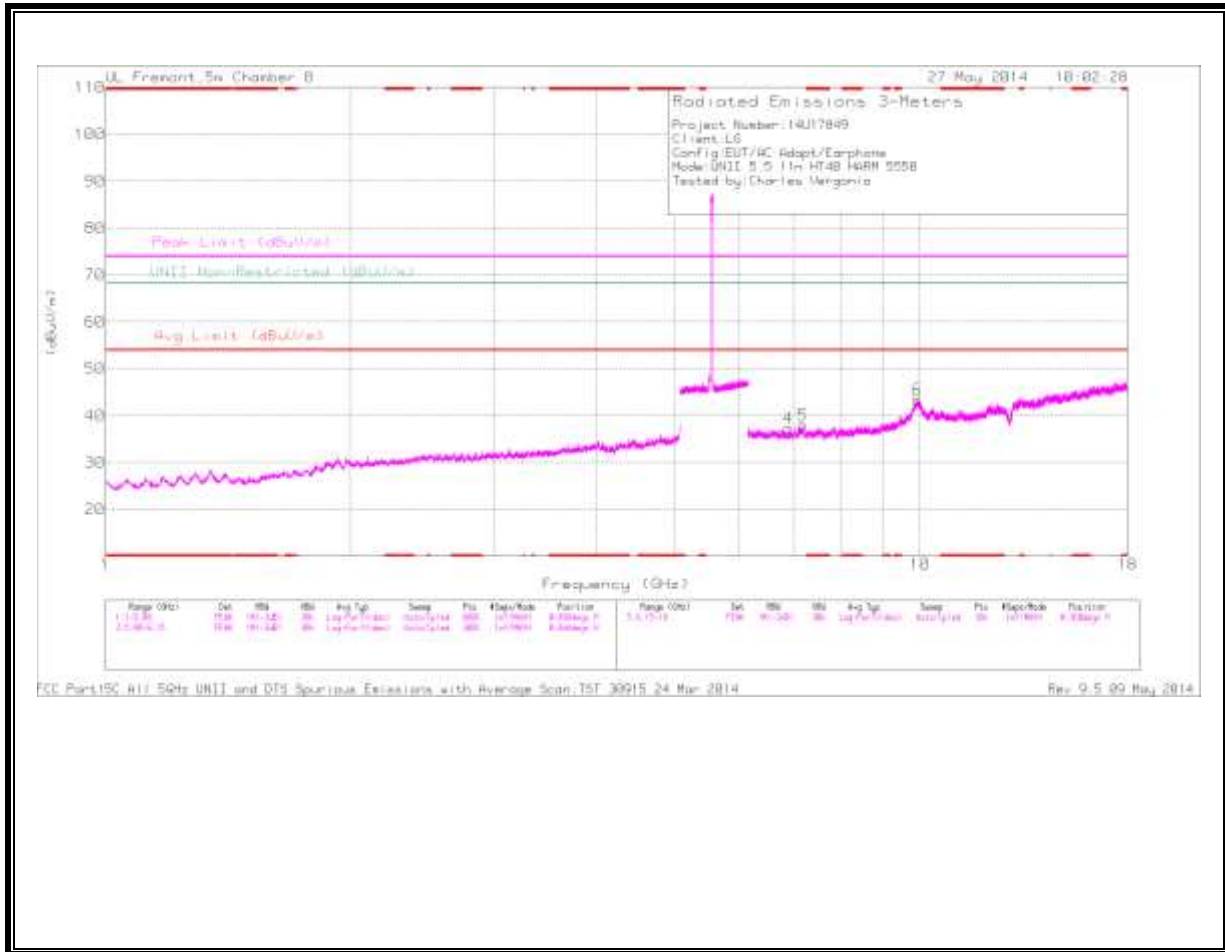
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.813	33.87	PK	30.3	-33.9	30.27	54	-23.73	-	-	68.2	-37.93	0-360	99	H
2	2.17	32.32	PK	31.3	-32.5	31.12	54	-22.88	-	-	68.2	-37.08	0-360	99	H
3	3.368	31.86	PK	32.8	-31.5	33.16	54	-20.84	-	-	68.2	-35.04	0-360	202	H
4	6.623	29.85	PK	35.7	-28	37.55	54	-16.45	-	-	68.2	-30.65	0-360	202	V
5	7.024	29.61	PK	35.6	-27.5	37.71	54	-16.29	-	-	68.2	-30.49	0-360	202	V
6	9.926	30.25	PK	37	-23.9	43.35	54	-10.65	-	-	68.2	-24.85	0-360	99	V

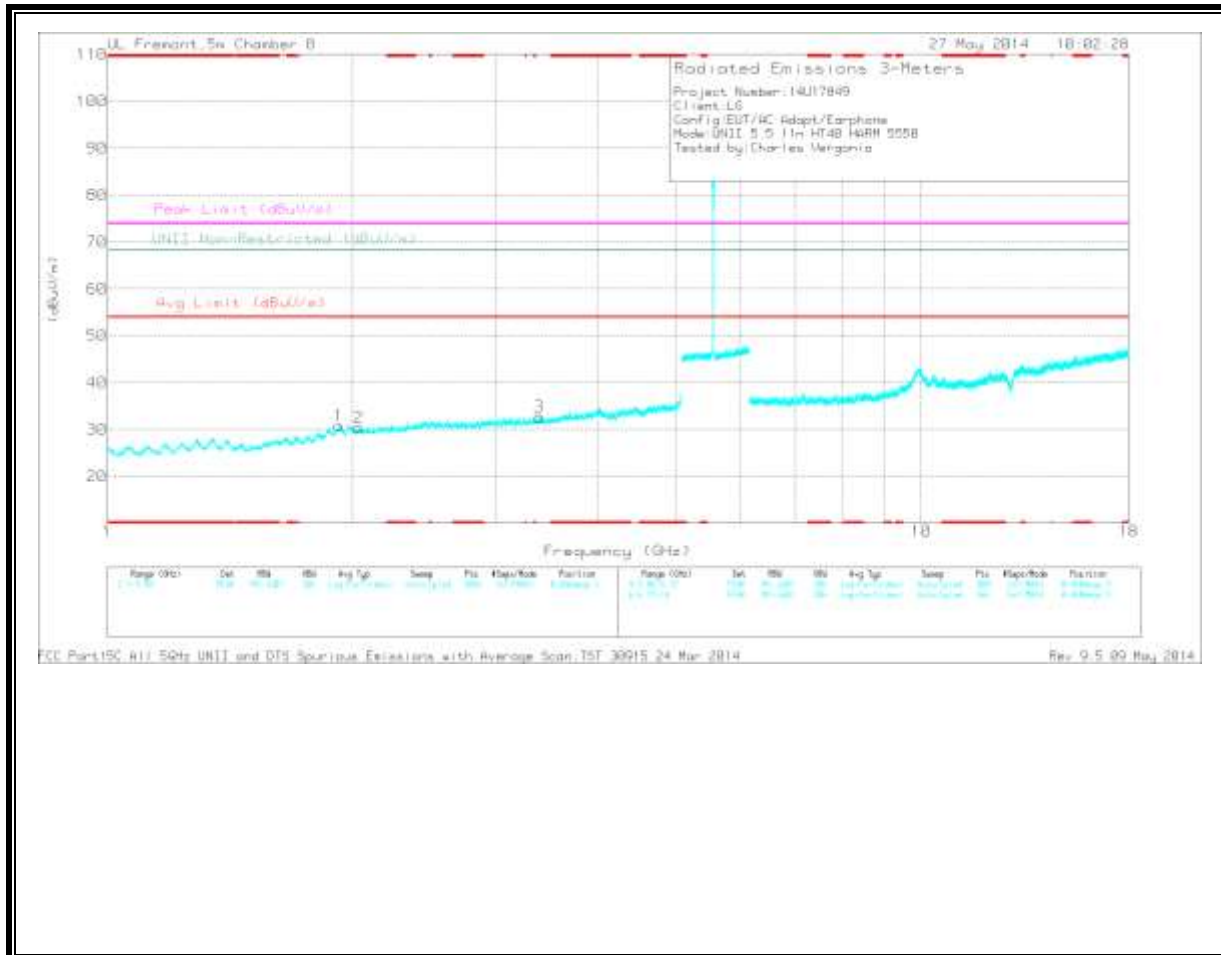
PK - Peak detector

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



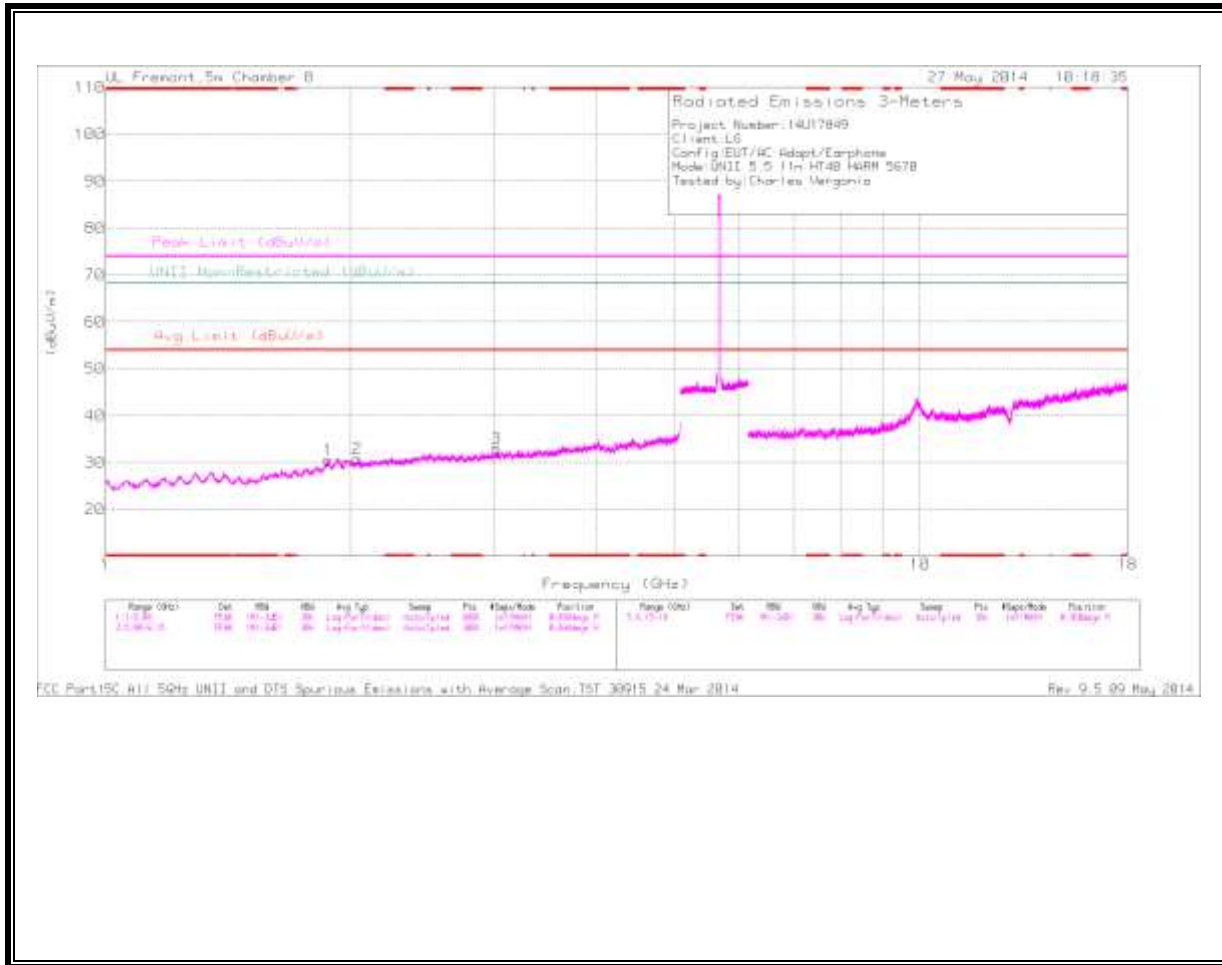
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.925	32.65	PK	31.1	-32.9	30.85	54	-23.15	-	-	68.2	-37.35	0-360	99	V
2	2.038	32.73	PK	31.3	-33.6	30.43	54	-23.57	-	-	68.2	-37.77	0-360	202	V
3	3.396	31.32	PK	32.8	-31.4	32.72	54	-21.28	-	-	68.2	-35.48	0-360	202	V
4	6.889	29.69	PK	35.6	-28	37.29	54	-16.71	-	-	68.2	-30.91	0-360	202	H
5	7.184	28.84	PK	35.6	-26.5	37.94	54	-16.06	-	-	68.2	-30.26	0-360	99	H
6	9.927	30.32	PK	37	-23.9	43.42	54	-10.58	-	-	68.2	-24.78	0-360	99	H

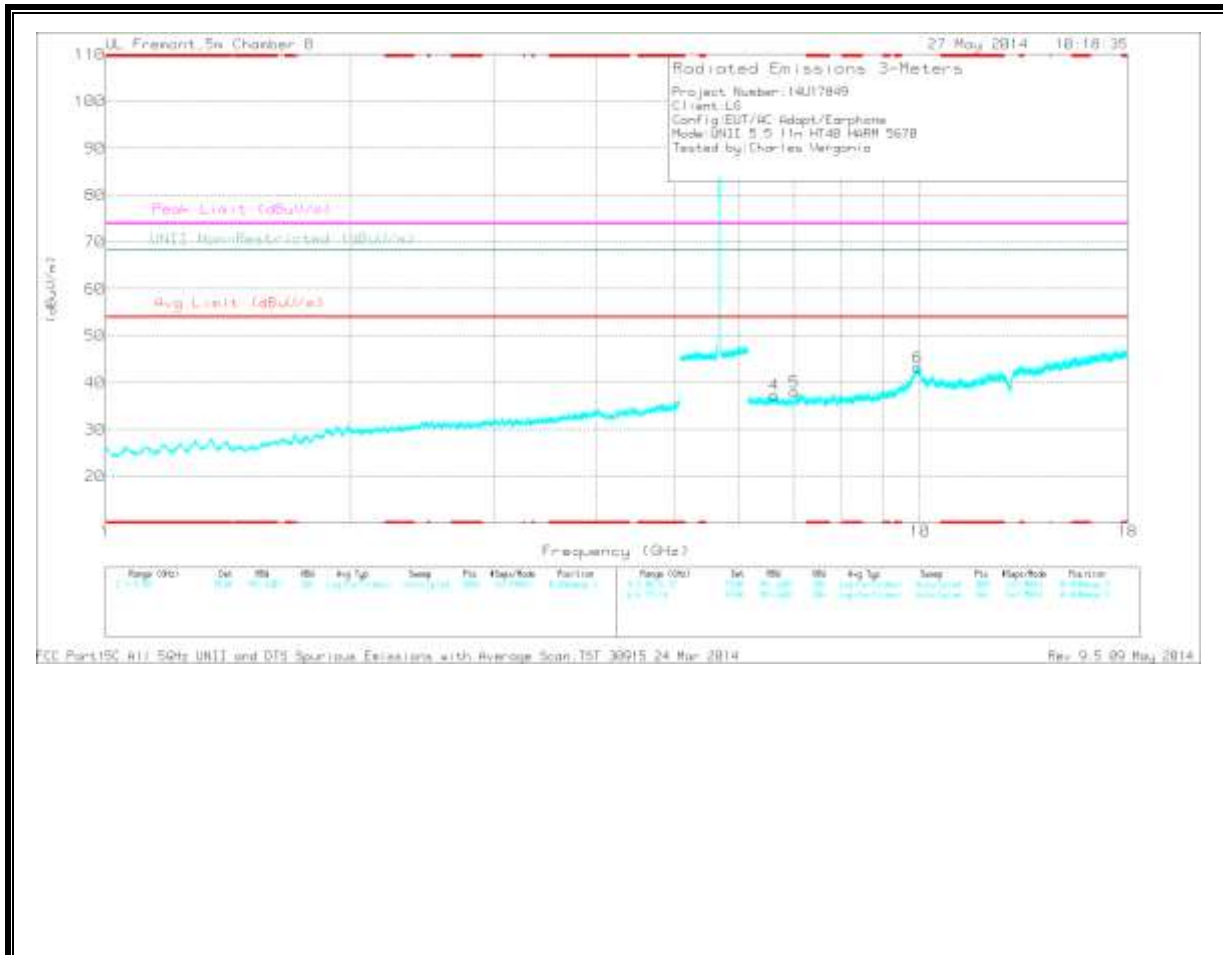
PK - Peak detector

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



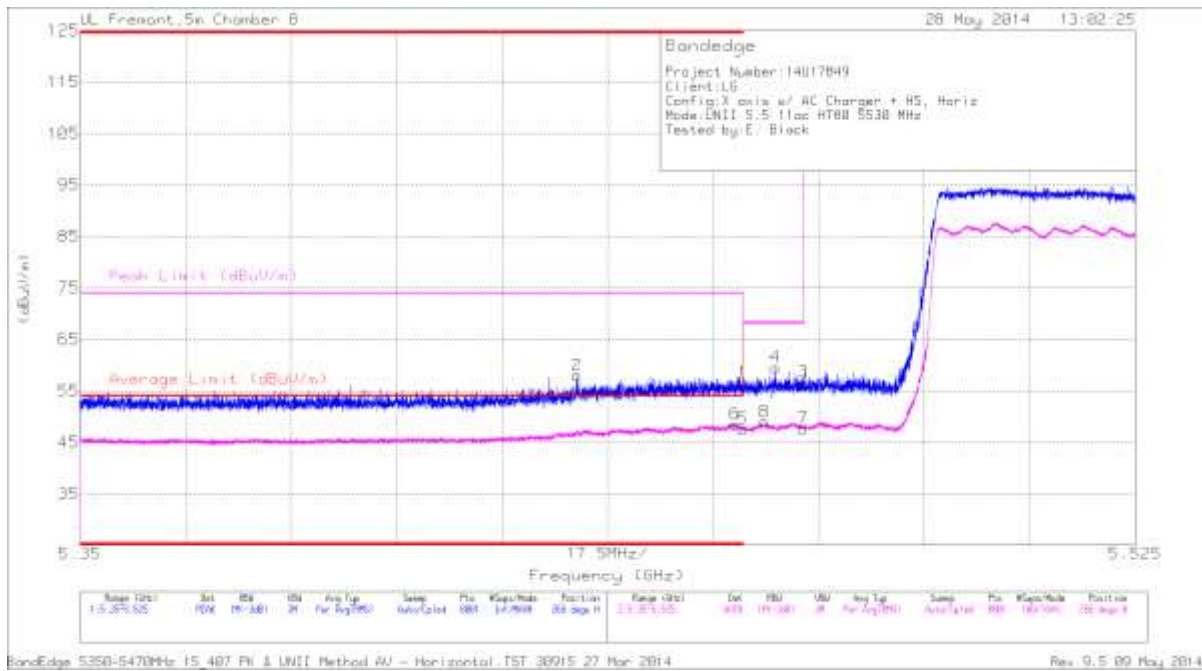
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.875	32.82	PK	30.8	-33.1	30.52	54	-23.48	-	-	68.2	-37.68	0-360	201	H
2	2.037	33.1	PK	31.3	-33.6	30.8	54	-23.2	-	-	68.2	-37.4	0-360	99	H
3	3.02	32.21	PK	32.8	-32	33.01	54	-20.99	-	-	68.2	-35.19	0-360	99	H
4	6.625	29.72	PK	35.7	-28.1	37.32	54	-16.68	-	-	68.2	-30.88	0-360	99	V
5	7.013	29.61	PK	35.6	-27.2	38.01	54	-15.99	-	-	68.2	-30.19	0-360	99	V
6	9.939	30.28	PK	37	-24	43.28	54	-10.72	-	-	68.2	-24.92	0-360	99	V

PK - Peak detector

### 10.3.8. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL



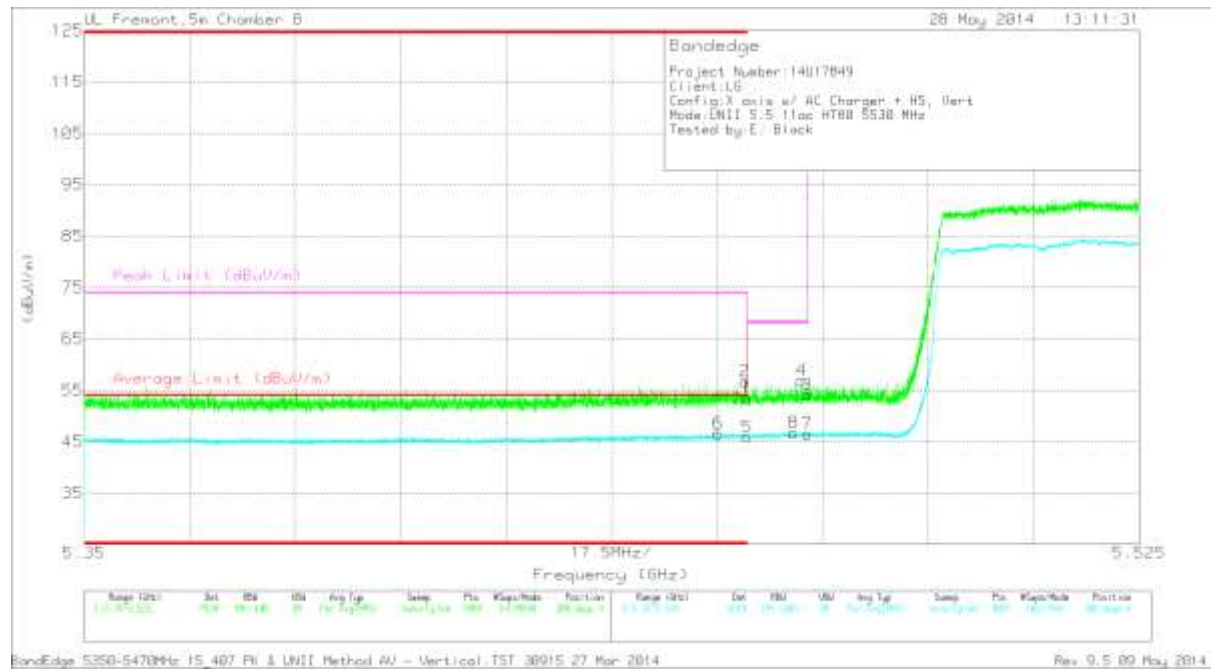
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.432	43.62	PK	34.5	-20.1	0	58.02	-	-	74	-15.98	266	221	H
6	* 5.459	32.65	RMS	34.5	-20.1	0.85	48.55	54	-5.45	-	-	266	221	H
1	* 5.46	42.24	PK	34.5	-20.1	0	56.64	-	-	74	-17.36	266	221	H
5	* 5.46	31.68	RMS	34.5	-20.1	0.85	47.58	54	-6.42	-	-	266	221	H
8	5.464	33.07	RMS	34.5	-20.1	0.85	48.97	-	-	-	-	266	221	H
4	5.465	45.15	PK	34.5	-20.1	0	59.55	-	-	68.2	-8.65	266	221	H
3	5.47	42.24	PK	34.5	-20	0	56.74	-	-	68.2	-11.46	266	221	H
7	5.47	31.74	RMS	34.5	-20	0.85	47.74	-	-	-	-	266	221	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 5.455	30.67	RMS	34.5	-20.1	0.85	46.57	54	-7.43	-	-	300	264	V
1	* 5.46	39.23	PK	34.5	-20.1	0	53.63	-	-	74	-20.37	300	264	V
2	* 5.46	42.36	PK	34.5	-20.1	0	56.76	-	-	74	-17.24	300	264	V
5	* 5.46	30.04	RMS	34.5	-20.1	0.85	45.94	54	-8.06	-	-	300	264	V
8	5.468	30.89	RMS	34.5	-20.1	0.85	46.79	-	-	-	-	300	264	V
4	5.469	42.38	PK	34.5	-20	0	56.88	-	-	68.2	-11.32	300	264	V
3	5.47	39.59	PK	34.5	-20	0	54.09	-	-	68.2	-14.11	300	264	V
7	5.47	30.53	RMS	34.5	-20	0.85	46.53	-	-	-	-	300	264	V

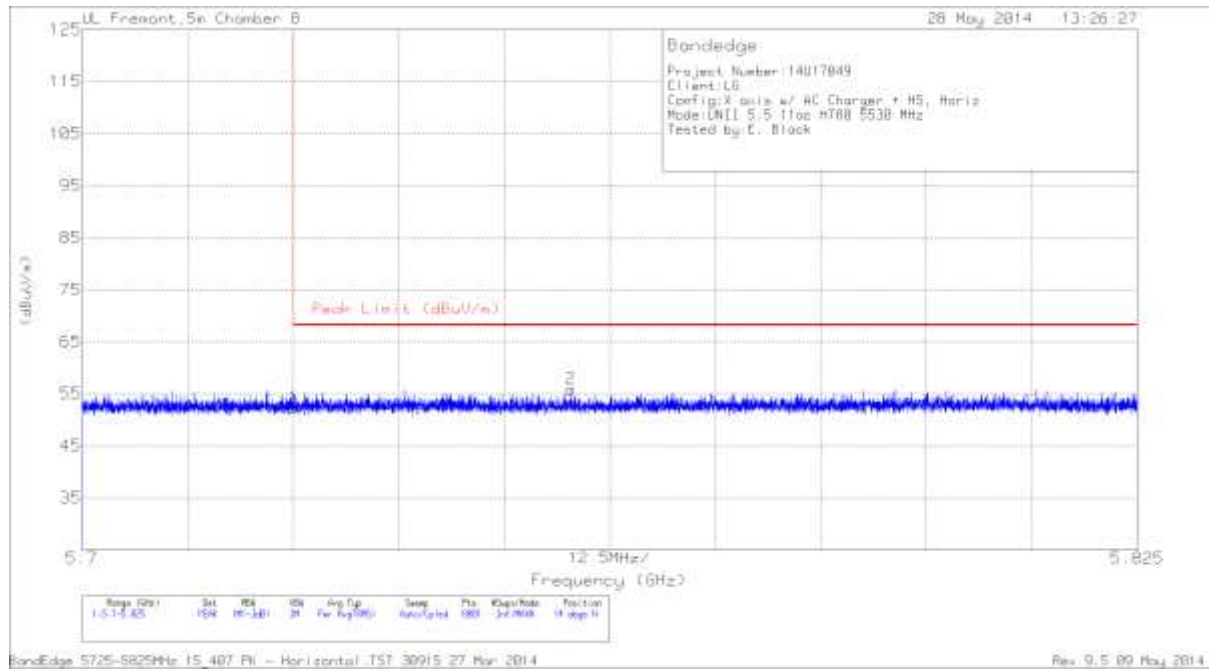
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

### AUTHORIZED BANDEDGE (HIGH CHANNEL)

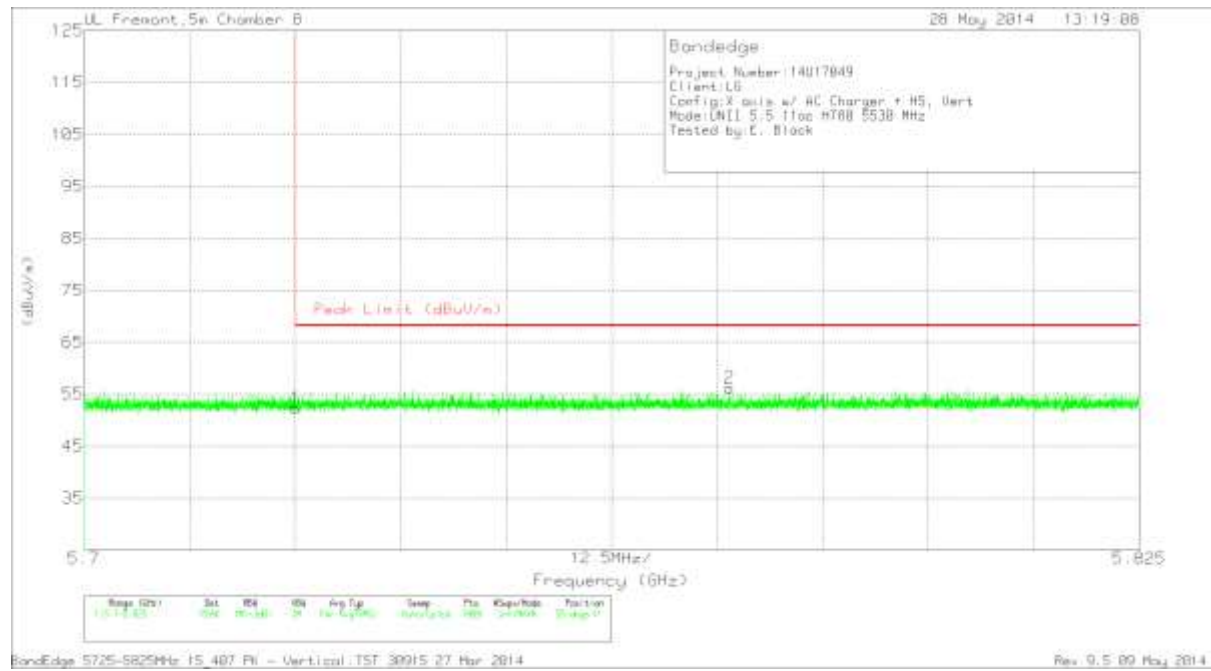
#### HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filter/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.56	PK	34.6	-19.9	52.26	68.2	-15.94	14	168	H
2	5.758	41.21	PK	34.6	-19.9	55.91	68.2	-12.29	14	168	H

PK - Peak detector

VERTICAL

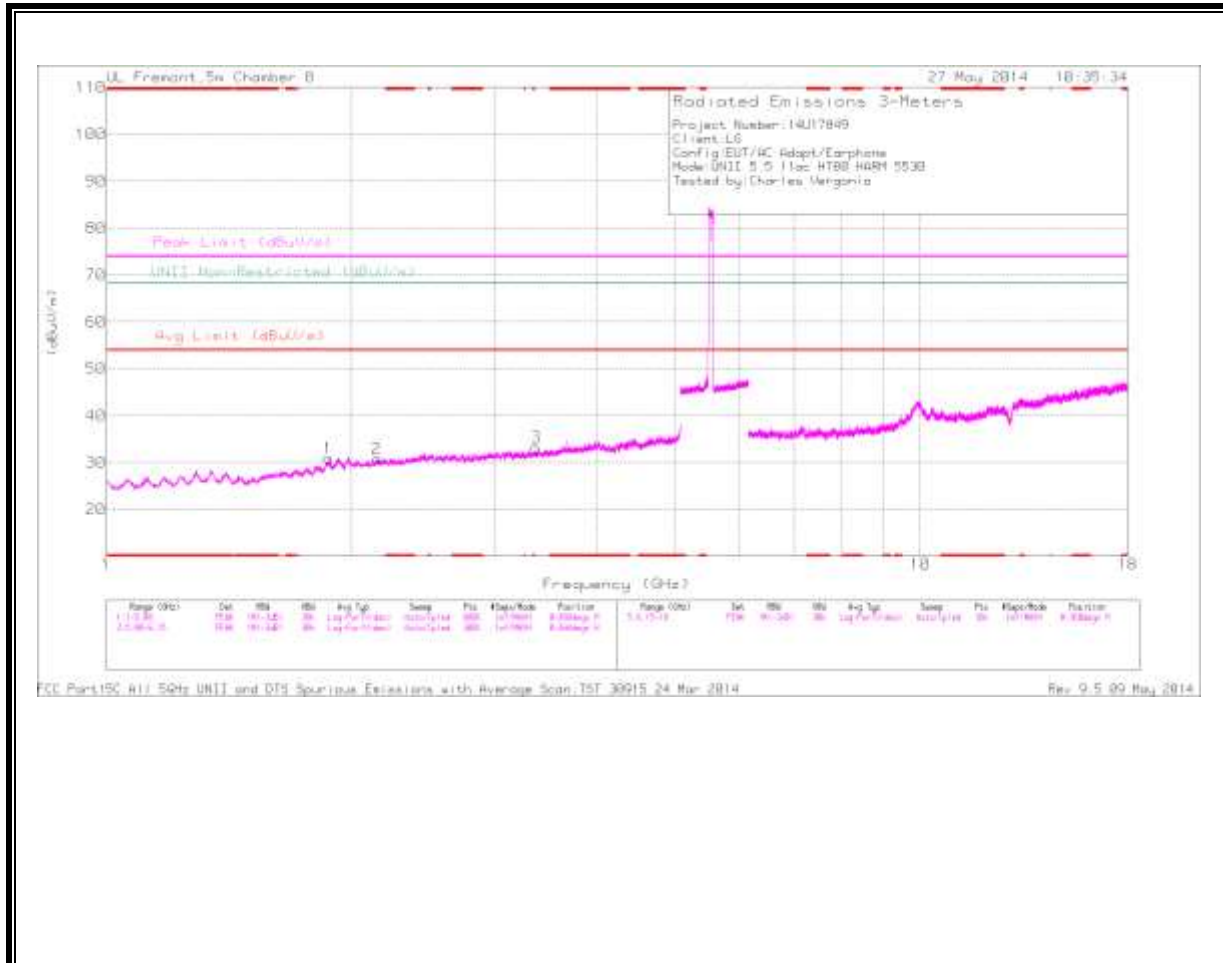


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.63	PK	34.6	-19.9	0	52.33	68.2	-15.87	55	273	V
2	5.776	41.32	PK	34.7	-19.8	0	56.22	68.2	-11.98	55	273	V

PK - Peak detector

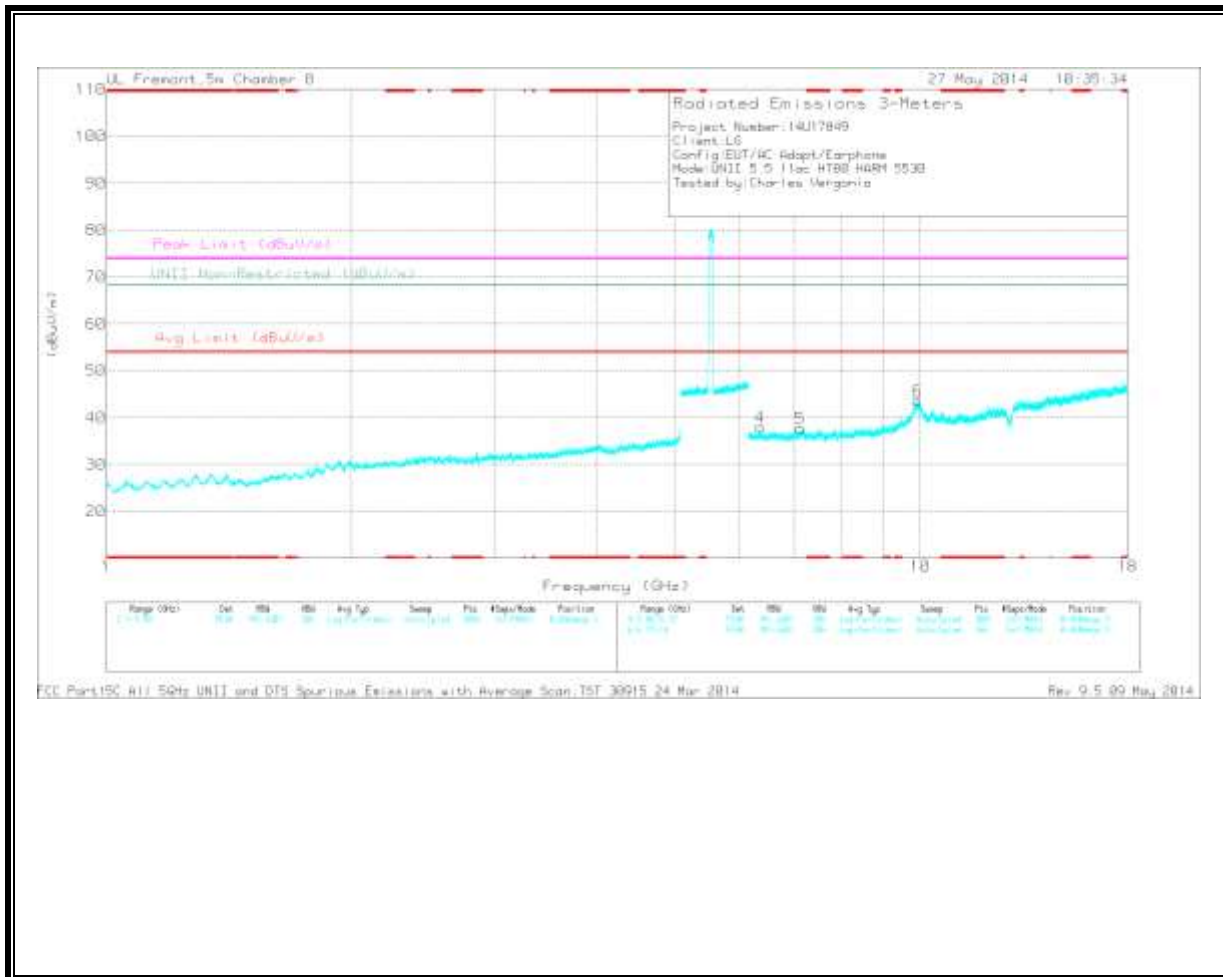
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

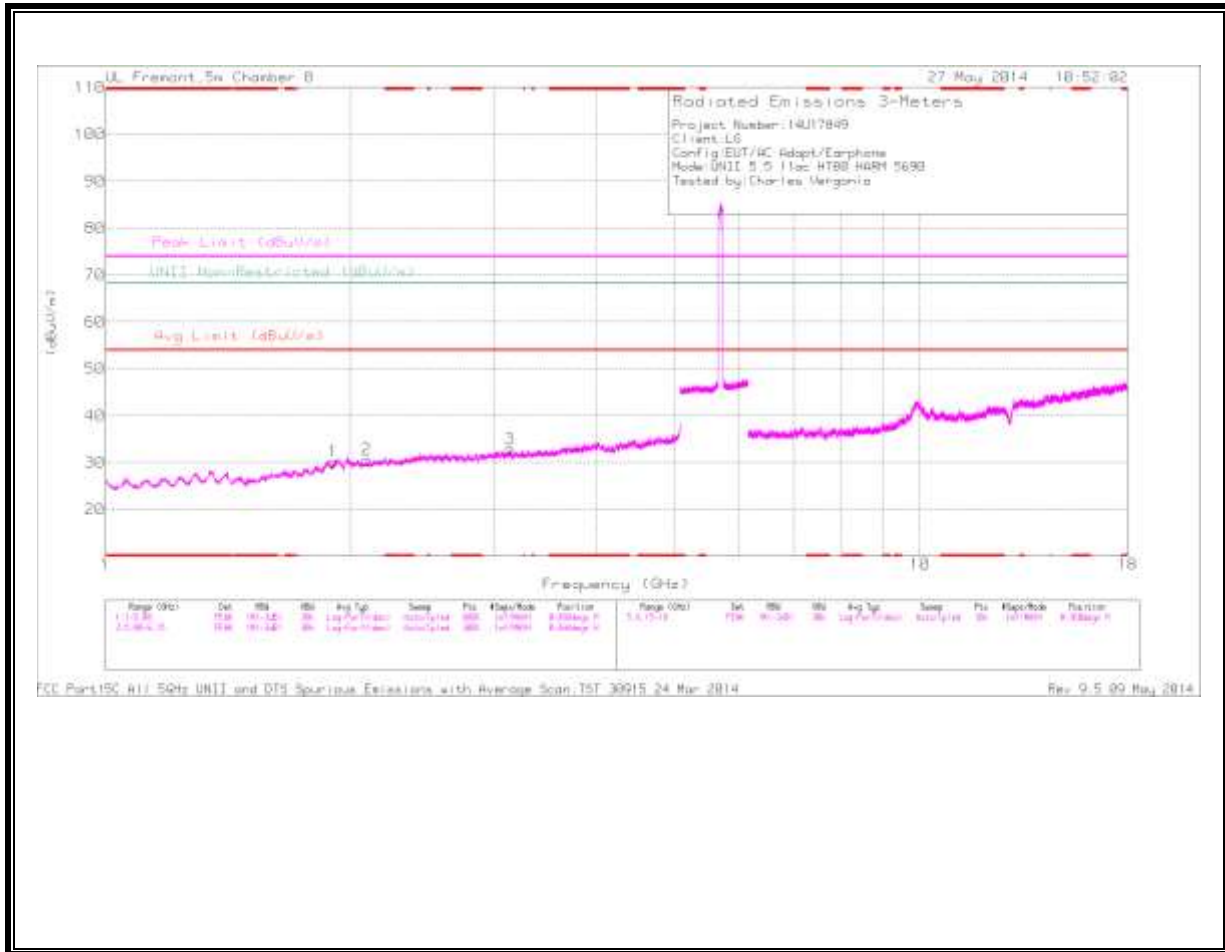
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.873	33.39	PK	30.8	-33.2	30.99	54	-23.01	-	-	68.2	-37.21	0-360	99	H
2	2.149	32.37	PK	31.3	-32.8	30.87	54	-23.13	-	-	68.2	-37.33	0-360	99	H
3	3.373	31.94	PK	32.8	-31.5	33.24	54	-20.76	-	-	68.2	-34.96	0-360	202	H
4	6.36	30.22	PK	35.6	-27.9	37.92	54	-16.08	-	-	68.2	-30.28	0-360	99	V
5	7.125	30.01	PK	35.6	-27.9	37.71	54	-16.29	-	-	68.2	-30.49	0-360	202	V
6	9.922	30.52	PK	37	-24	43.52	54	-10.48	-	-	68.2	-24.68	0-360	99	V

PK - Peak detector

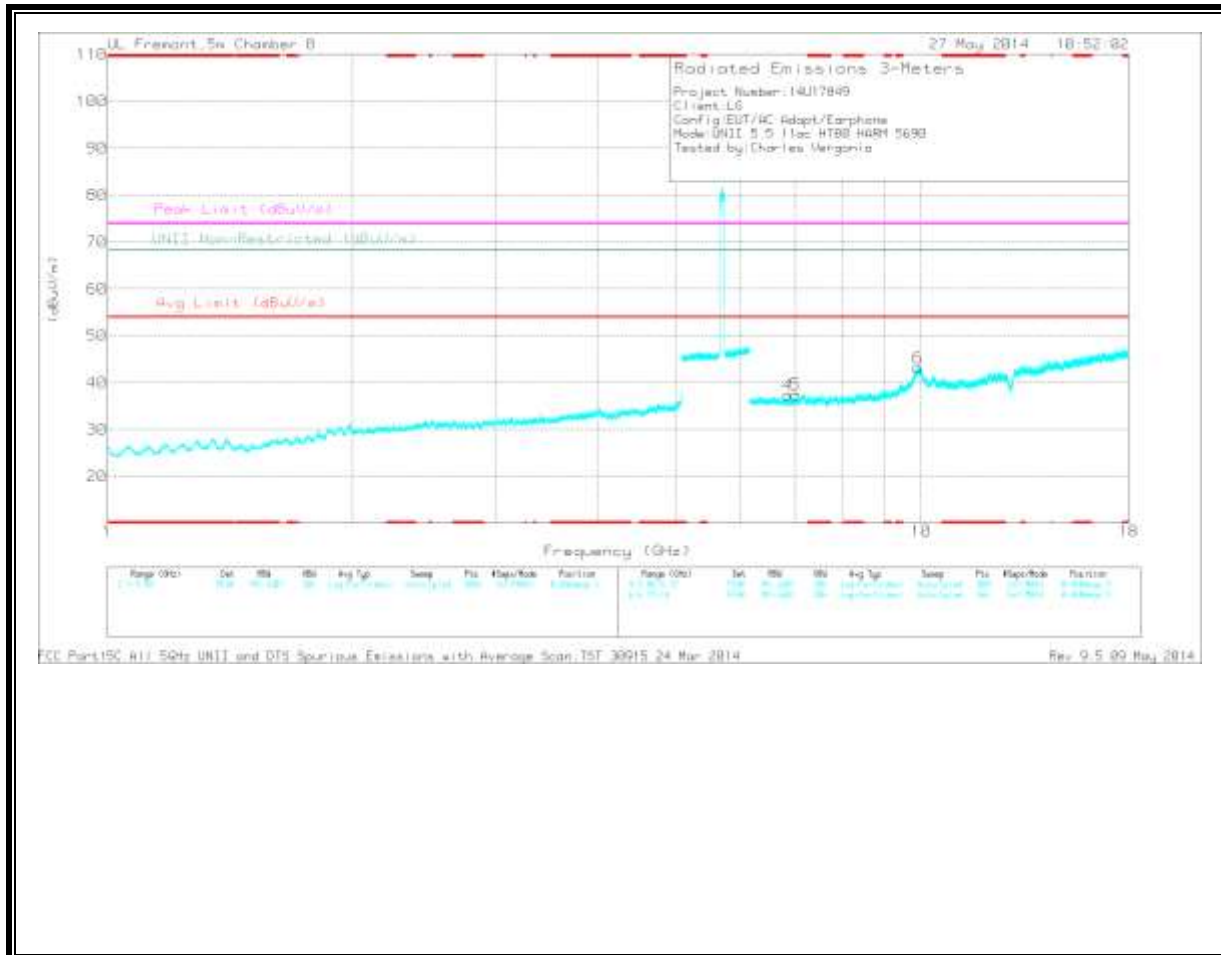


MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

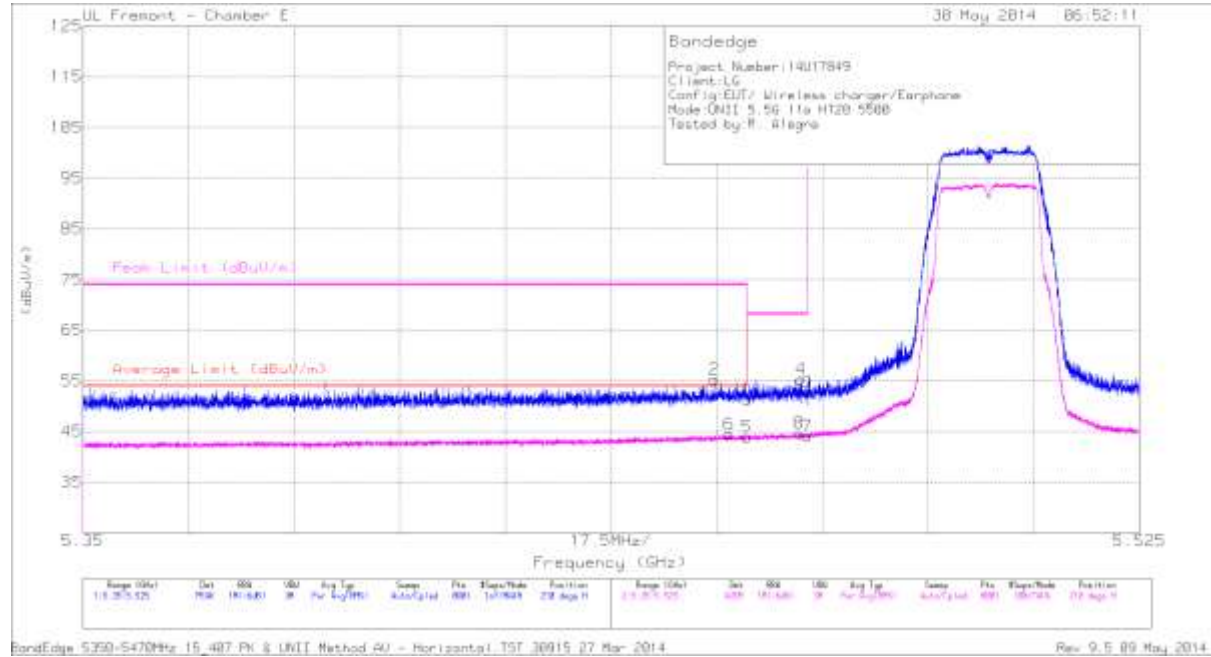
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.902	32.15	PK	31.1	-33	30.25	54	-23.75	-	-	68.2	-37.95	0-360	99	H
2	2.093	33.04	PK	31.3	-33.7	30.64	54	-23.36	-	-	68.2	-37.56	0-360	99	H
3	3.137	31.72	PK	32.8	-31.6	32.92	54	-21.08	-	-	68.2	-35.28	0-360	99	H
4	6.856	30.13	PK	35.6	-28.4	37.33	54	-16.67	-	-	68.2	-30.87	0-360	99	V
5	7.011	28.95	PK	35.6	-27.1	37.45	54	-16.55	-	-	68.2	-30.75	0-360	99	V
6	9.909	30.31	PK	37	-24.1	43.21	54	-10.79	-	-	68.2	-24.99	0-360	99	V

PK - Peak detector

**WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH WPC COVER AND CHARGER**

**RESTRICTED BANDEGE (LOW CHANNEL)**

HORIZONTAL



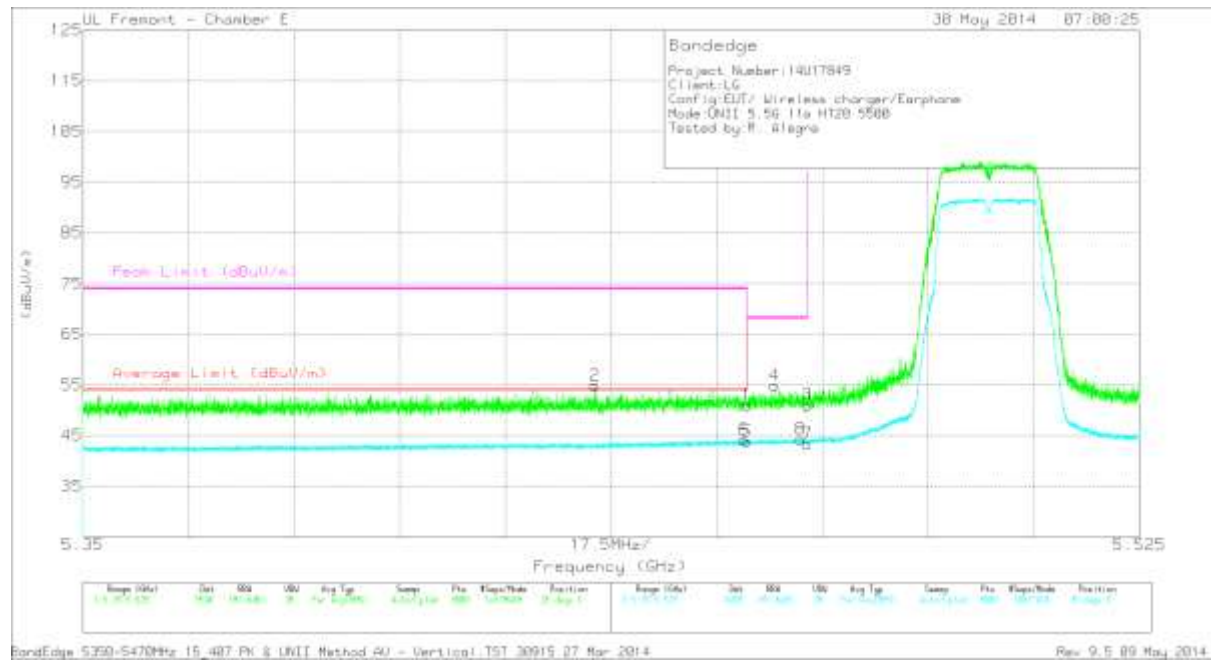
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.57	PK	34.6	-20.8	0	51.37	-	-	74	-22.63	210	346	H
2	* 5.455	41.42	PK	34.6	-20.8	0	55.22	-	-	74	-18.78	210	346	H
5	* 5.46	29.96	RMS	34.6	-20.8	.2	43.96	54	-10.04	-	-	210	346	H
6	* 5.457	30.42	RMS	34.6	-20.8	.2	44.42	54	-9.58	-	-	210	346	H
4	5.469	41.63	PK	34.6	-20.8	0	55.43	-	-	68.2	-12.77	210	346	H
8	5.469	30.74	RMS	34.6	-20.8	.2	44.74	-	-	-	-	210	346	H
3	5.47	38.99	PK	34.6	-20.8	0	52.79	-	-	68.2	-15.41	210	346	H
7	5.47	30.11	RMS	34.6	-20.8	.2	44.11	-	-	-	-	210	346	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.22	PK	34.6	-20.8	0	51.02	-	-	74	-22.98	35	309	V
2	* 5.435	41.25	PK	34.6	-21	0	54.85	-	-	74	-19.15	35	309	V
5	* 5.46	29.86	RMS	34.6	-20.8	.2	43.86	54	-10.14	-	-	35	309	V
6	* 5.46	30.22	RMS	34.6	-20.8	.2	44.22	54	-9.78	-	-	35	309	V
4	5.465	41.1	PK	34.6	-20.8	0	54.9	-	-	68.2	-13.3	35	309	V
8	5.469	30.31	RMS	34.6	-20.8	.2	44.31	-	-	-	-	35	309	V
3	5.47	37.3	PK	34.6	-20.8	0	51.1	-	-	68.2	-17.1	35	309	V
7	5.47	29.34	RMS	34.6	-20.8	.2	43.34	-	-	-	-	35	309	V

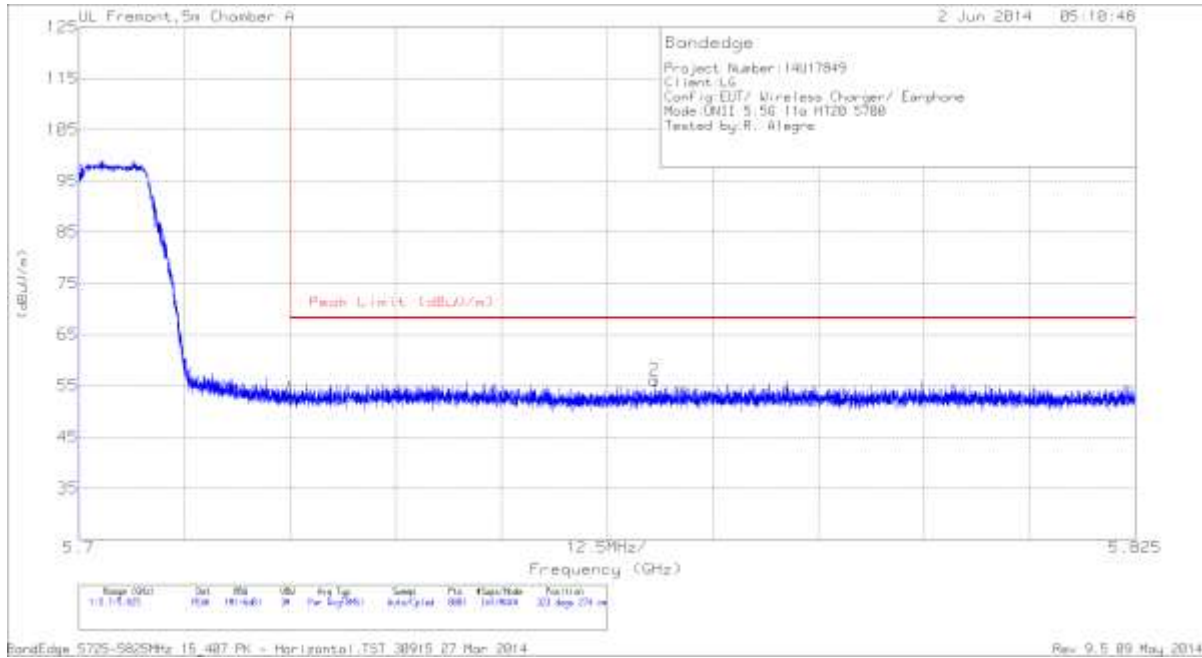
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL) WITH WPC**

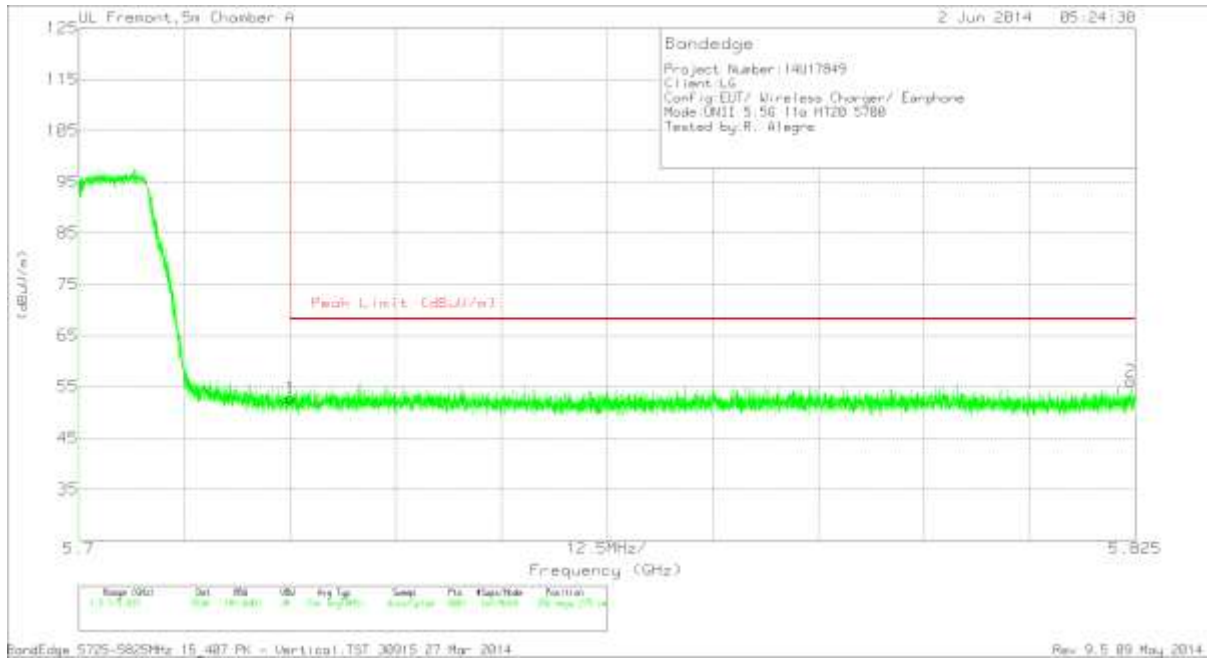
**HORIZONTAL**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.65	PK	34.6	-19.6	52.65	68.2	-15.55	323	274	H
2	5.768	41.14	PK	34.7	-19.7	56.14	68.2	-12.06	323	274	H

PK - Peak detector

VERTICAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.76	PK	34.6	-19.6	52.76	68.2	-15.44	356	275	V
2	5.824	40.7	PK	34.8	-19.4	56.1	68.2	-12.1	356	275	V

PK - Peak detector

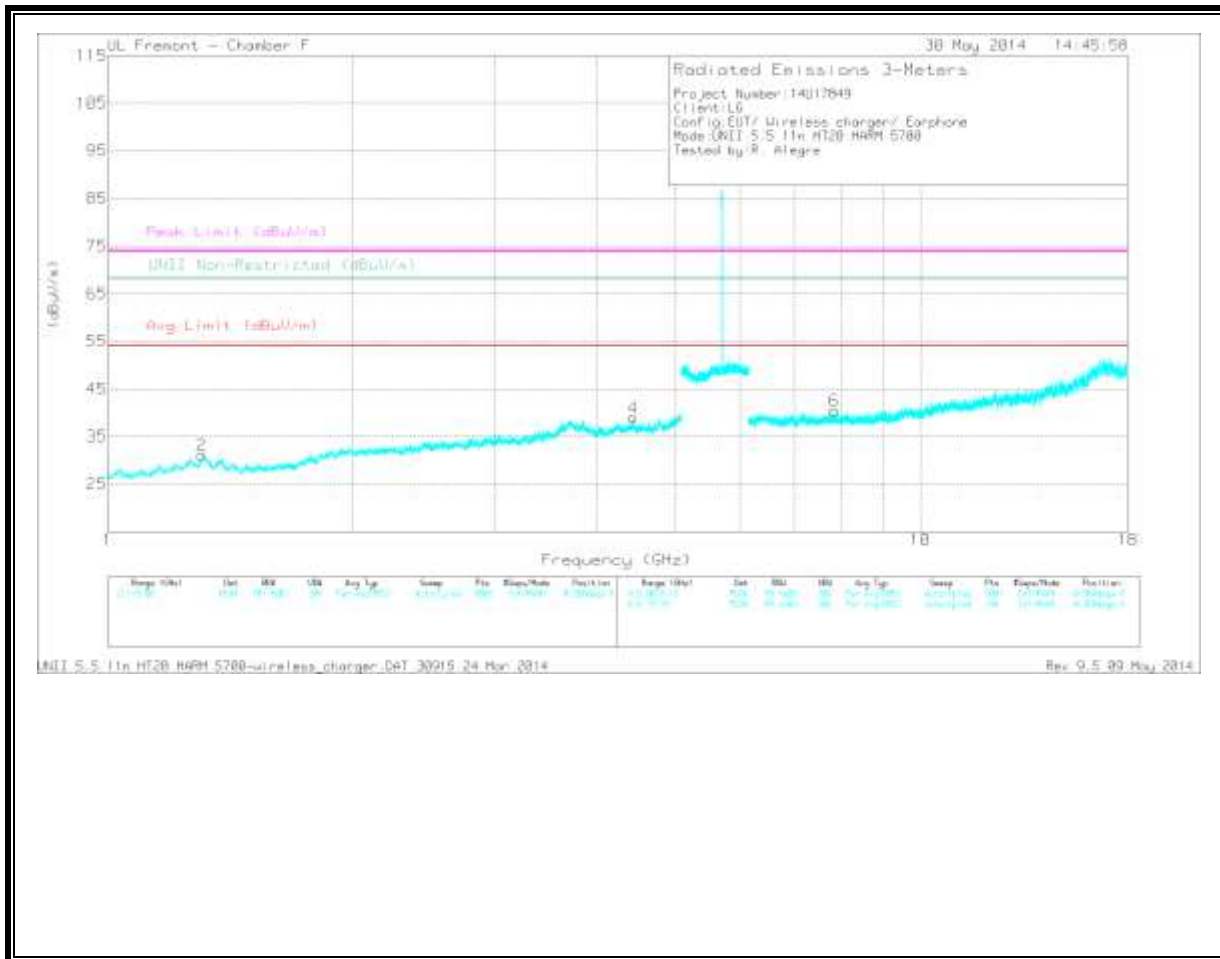
**HARMONICS AND SPURIOUS EMISSIONS WITH WPC CHARGER AND BACK COVER**

HORIZONTAL





VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.311	32.97	PK	30	-31.4	0	31.57	-	-	74	-42.43	-	-	0-360	101	H
3	* 2.223	33.32	PK	31.8	-31	0	34.12	-	-	74	-39.88	-	-	0-360	200	H
5	* 4.788	32.77	PK	34.1	-27.6	0	39.27	-	-	74	-34.73	-	-	0-360	101	H
2	* 1.307	32.61	PK	30	-31.5	0	31.11	-	-	74	-42.89	-	-	0-360	101	V
4	4.436	32.35	PK	33.9	-27.3	0	38.95	-	-	-	-	68.2	-29.25	0-360	101	V
6	7.841	29.16	PK	35.7	-24.4	0	40.46	-	-	-	-	68.2	-27.74	0-360	101	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.789	39.14	PK1	34.1	-27.6	0	45.64	-	-	74	-28.36	-	-	360	102	H
* 2.224	40.47	PK1	31.8	-31	0	41.27	-	-	74	-32.73	-	-	360	201	H
* 1.31	41.19	PK1	30	-31.4	0	39.79	-	-	74	-34.21	-	-	360	102	H
4.435	38.04	PK1	33.9	-27.2	0	44.74	-	-	-	-	68.2	-23.46	360	102	V
* 1.306	40.61	PK1	30	-31.5	0	39.11	-	-	74	-34.89	-	-	360	102	V
7.841	36.71	PK1	35.7	-24.4	0	48.01	-	-	-	-	68.2	-20.19	360	102	V
7.842	25.26	AD1	35.7	-24.3	0.2	36.68	-	-	-	-	-	-	360	102	V

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

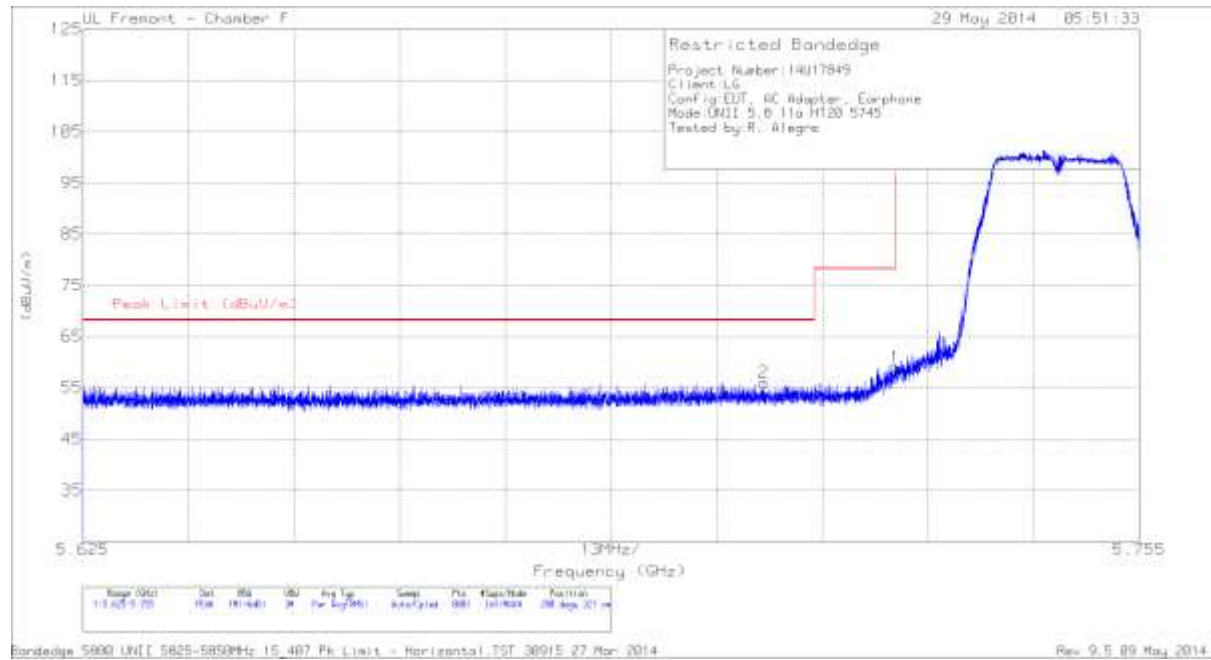
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

## 10.1. 5.8 GHz

### 10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

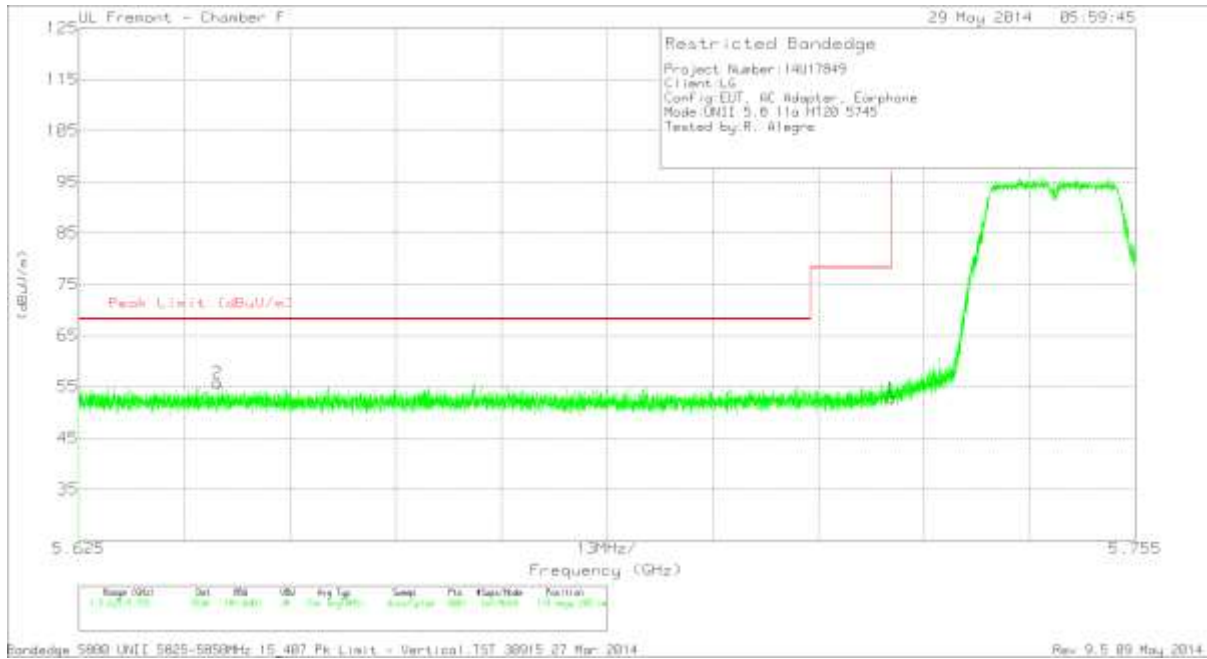
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	43.22	PK	34.8	-19.1	0	58.92	78.2	-19.28	280	321	H
2	5.709	40.22	PK	34.8	-19	0	56.02	68.2	-12.18	280	321	H

PK - Peak detector

VERTICAL

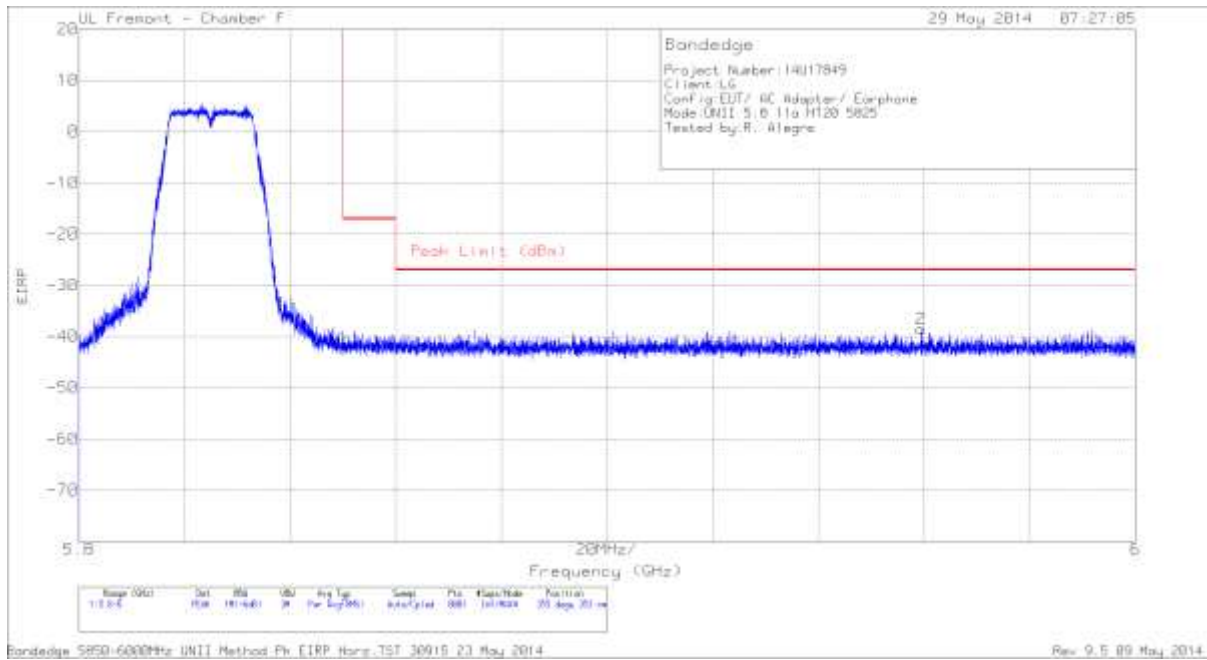


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37	PK	34.8	-19.1	0	52.7	78.2	-25.5	118	285	V
2	5.642	40.42	PK	34.7	-19.3	0	55.82	68.2	-12.38	118	285	V

PK - Peak detector

### RESTRICTED BANDEGE (HIGH CHANNEL)

HORIZONTAL



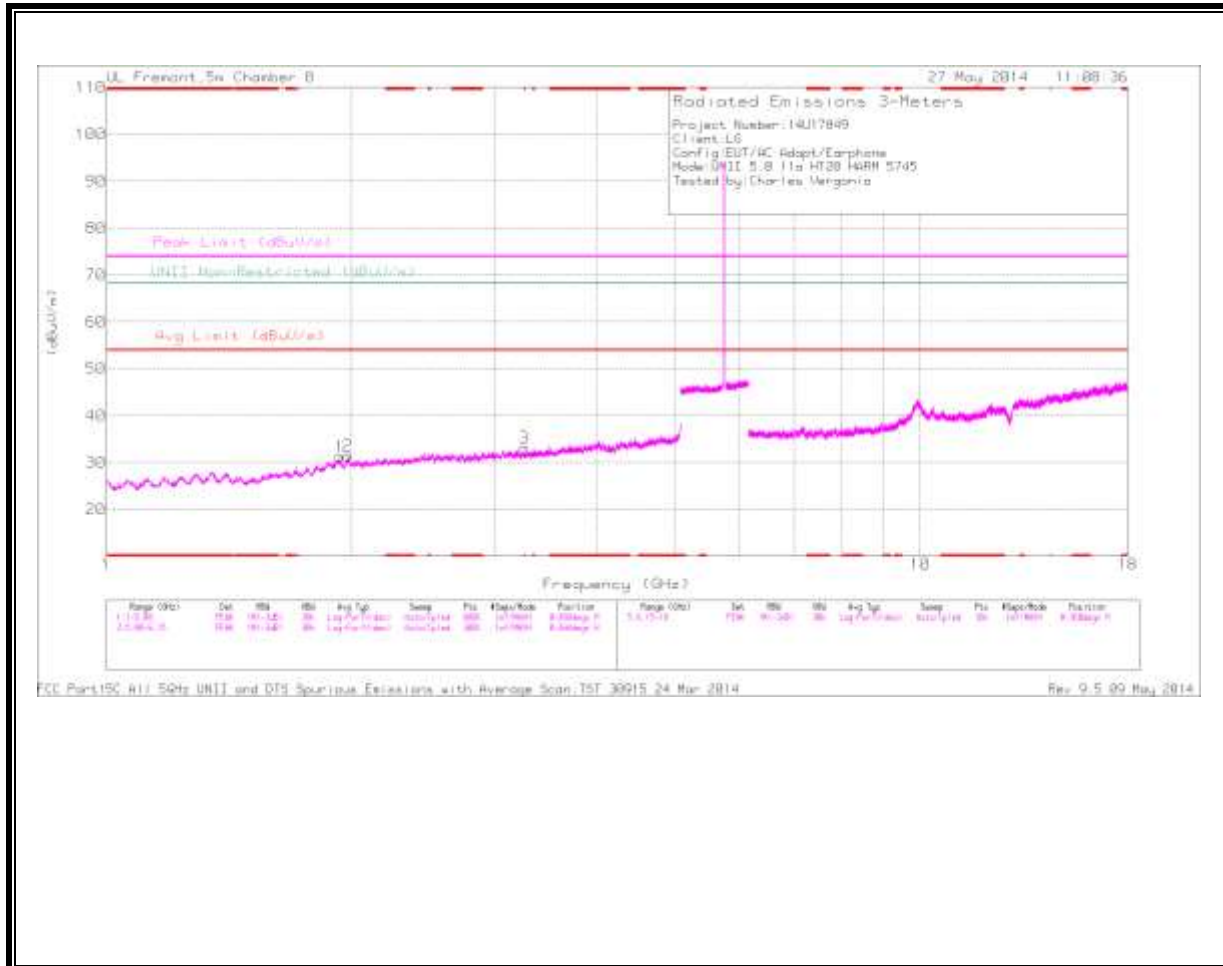
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70	PK	35	-19	11.8	0	-42.2	-17	-25.2	355	353	H
2	5.959	-66.74	PK	35.2	-18.8	11.8	0	-38.54	-27	-11.54	355	353	H

PK - Peak detector



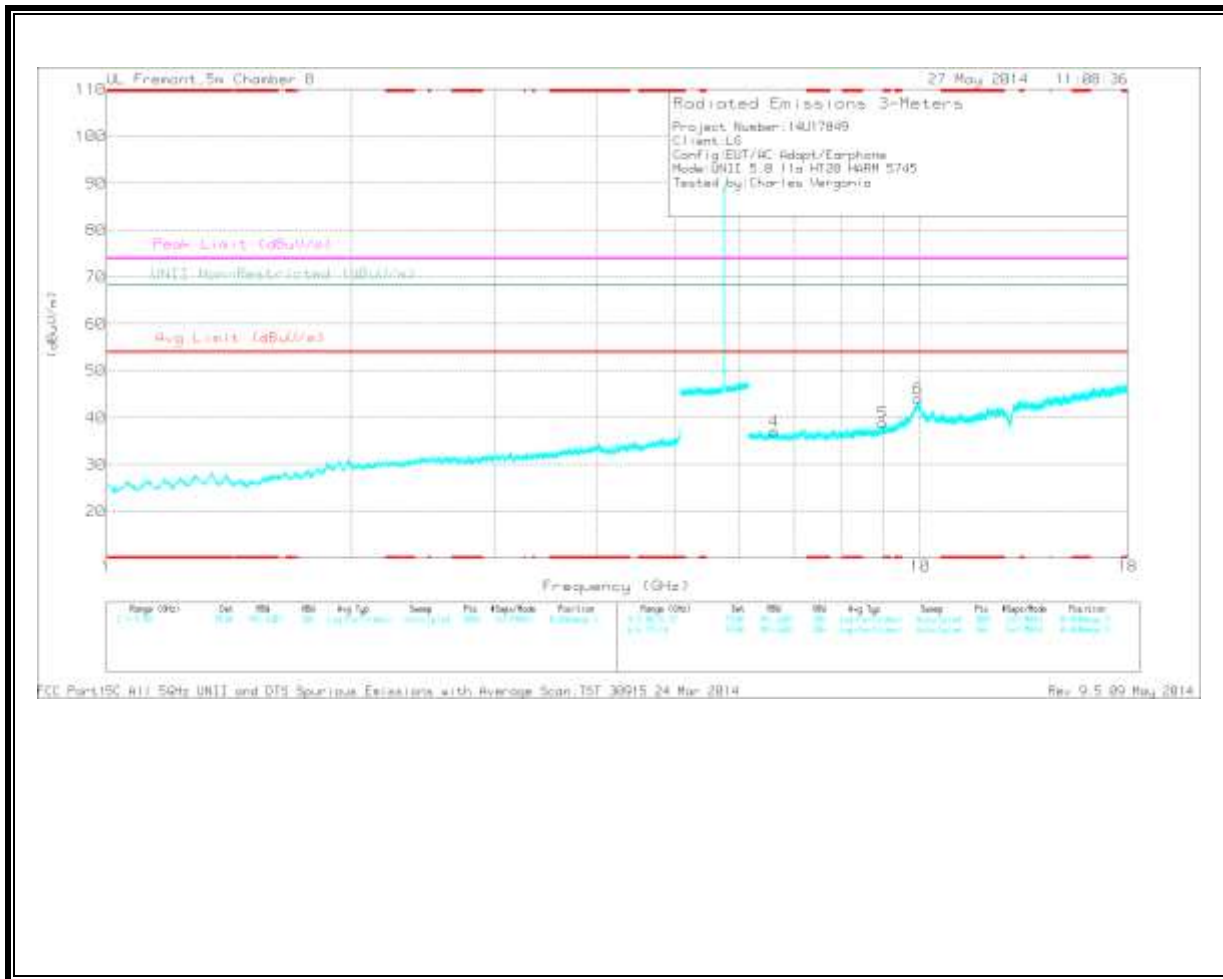
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



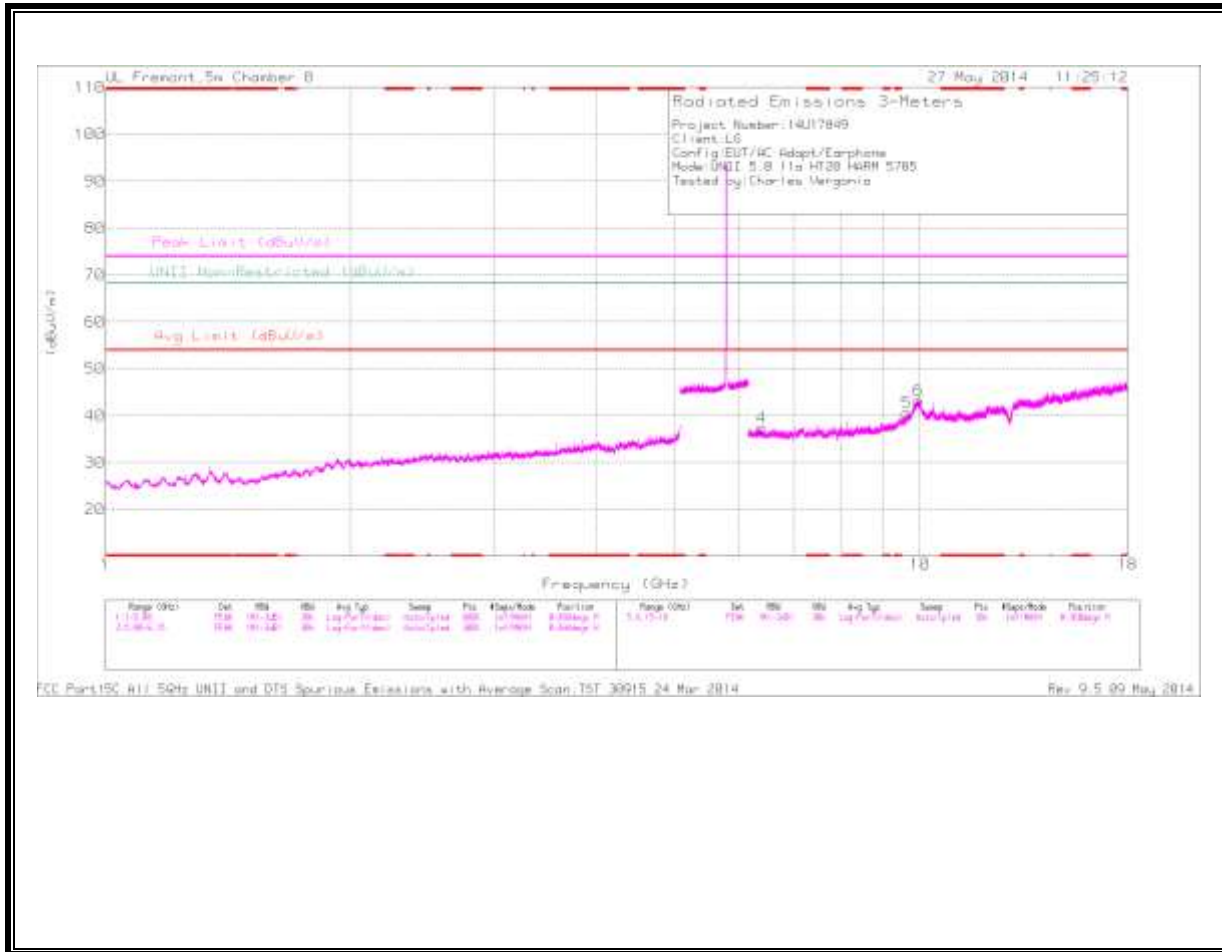
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.265	32.27	PK	32.8	-31.9	33.17	-	-	74	-40.83	-	-	0-360	99	H
1	1.934	32.78	PK	31.2	-32.8	31.18	-	-	-	-	68.2	-37.02	0-360	99	H
2	1.977	33	PK	31.3	-32.8	31.5	-	-	-	-	68.2	-36.7	0-360	202	H
4	6.617	29.14	PK	35.7	-27.8	37.04	-	-	-	-	68.2	-31.16	0-360	202	V
5	8.996	27.64	PK	36.2	-24.9	38.94	-	-	-	-	68.2	-29.26	0-360	99	V
6	9.937	31.08	PK	37	-24	44.08	-	-	-	-	68.2	-24.12	0-360	99	V

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

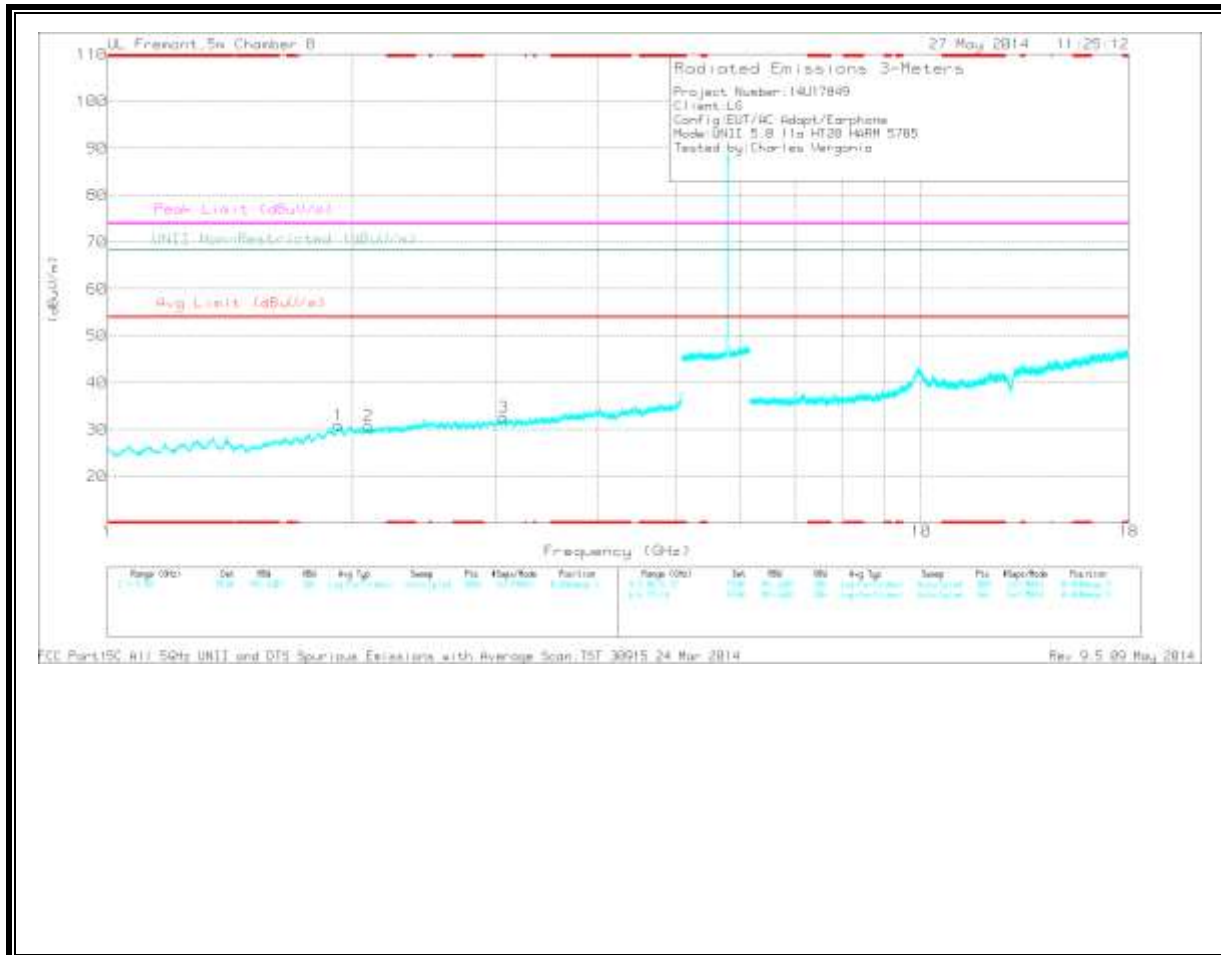
PK - Peak detector

MID CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



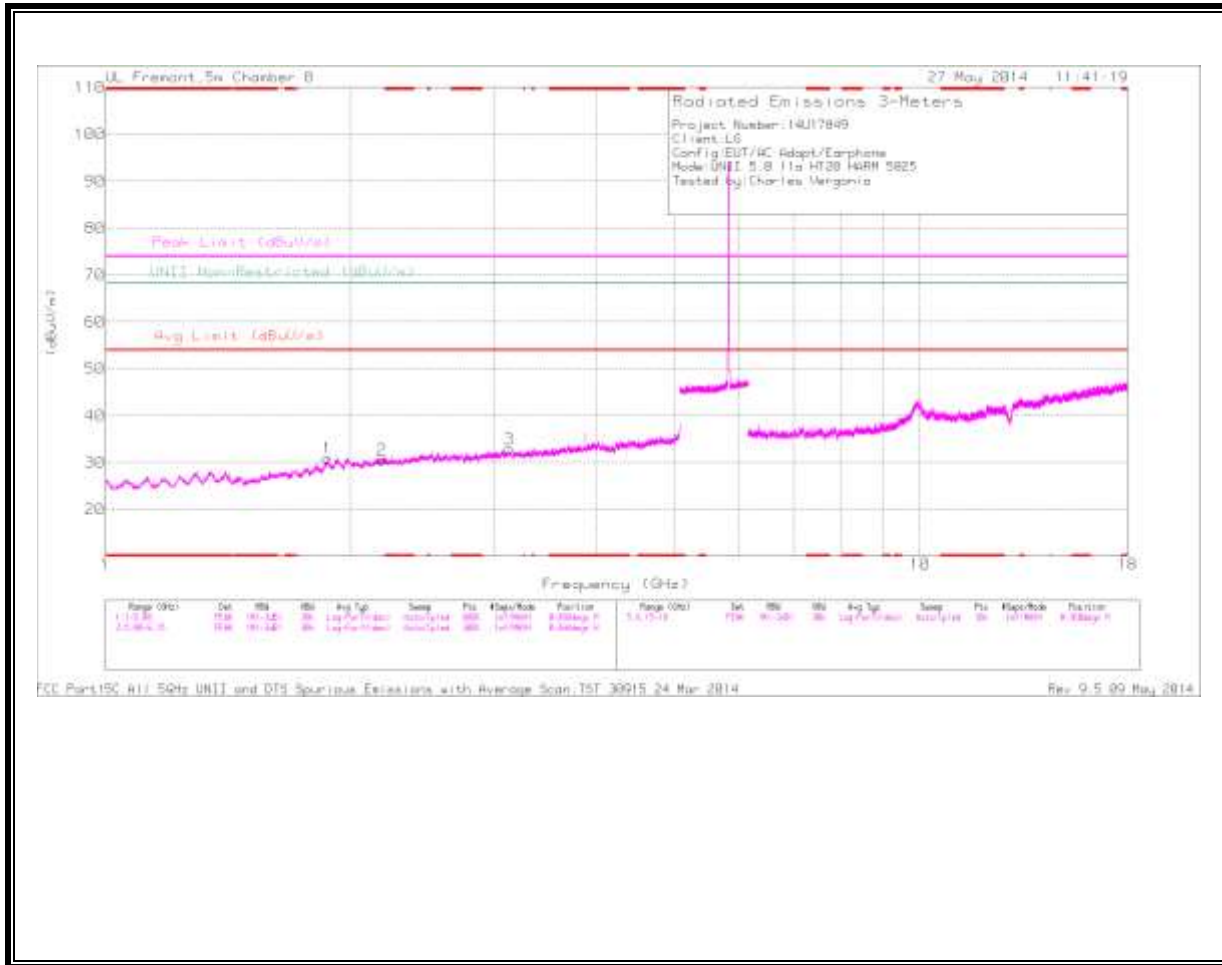
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.922	32.8	PK	31.1	-32.9	31	-	-	-	-	68.2	-37.2	0-360	202	V
2	2.093	33.17	PK	31.3	-33.7	30.77	-	-	-	-	68.2	-37.43	0-360	99	V
3	3.069	32.08	PK	32.8	-32.2	32.68	-	-	-	-	68.2	-35.52	0-360	202	V
4	6.39	29.88	PK	35.6	-28	37.48	-	-	-	-	68.2	-30.72	0-360	99	H
5	9.641	28.18	PK	36.8	-24.3	40.68	-	-	-	-	68.2	-27.52	0-360	201	H
6	9.954	30.45	PK	37	-24.2	43.25	-	-	-	-	68.2	-24.95	0-360	201	H

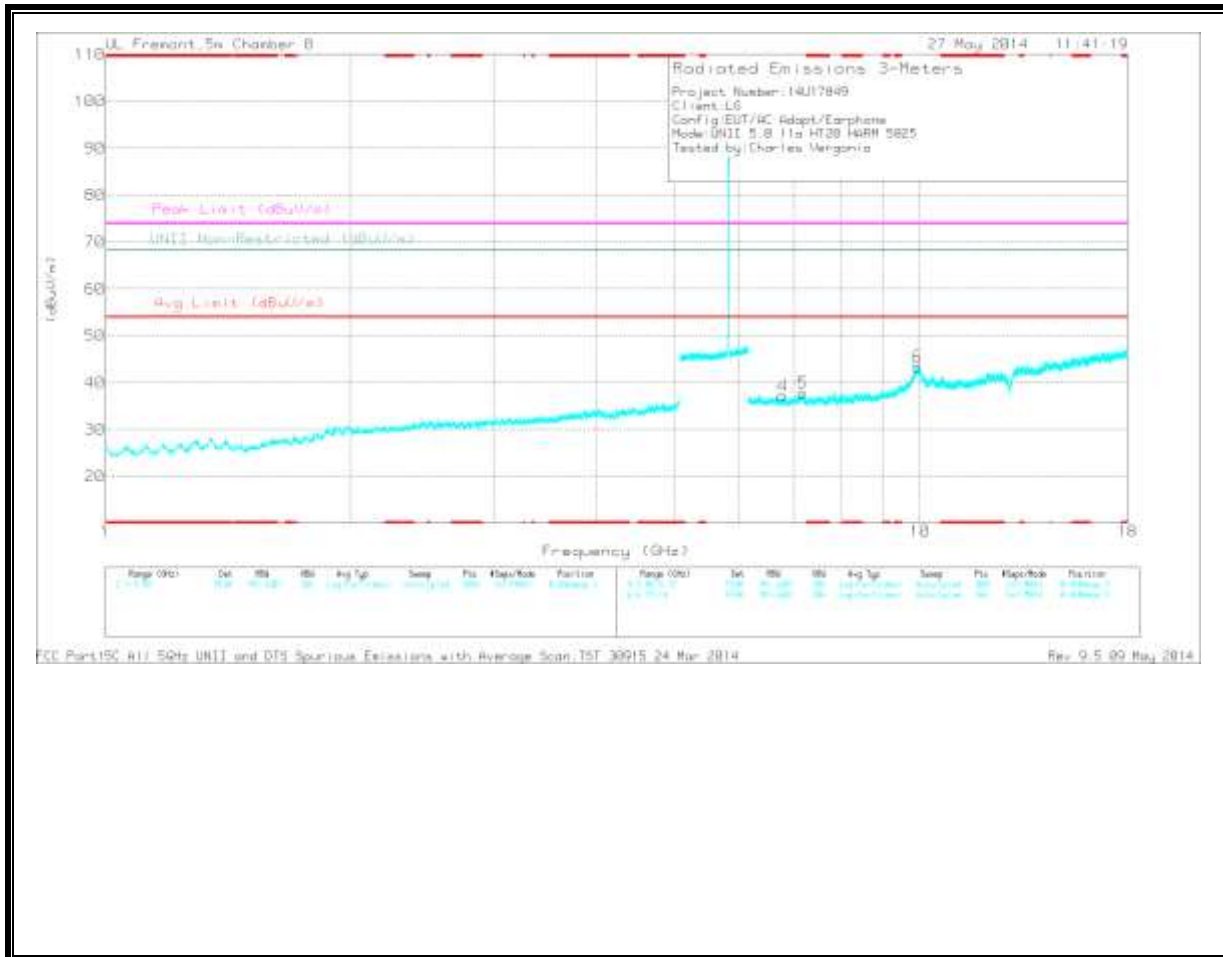
PK - Peak detector

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

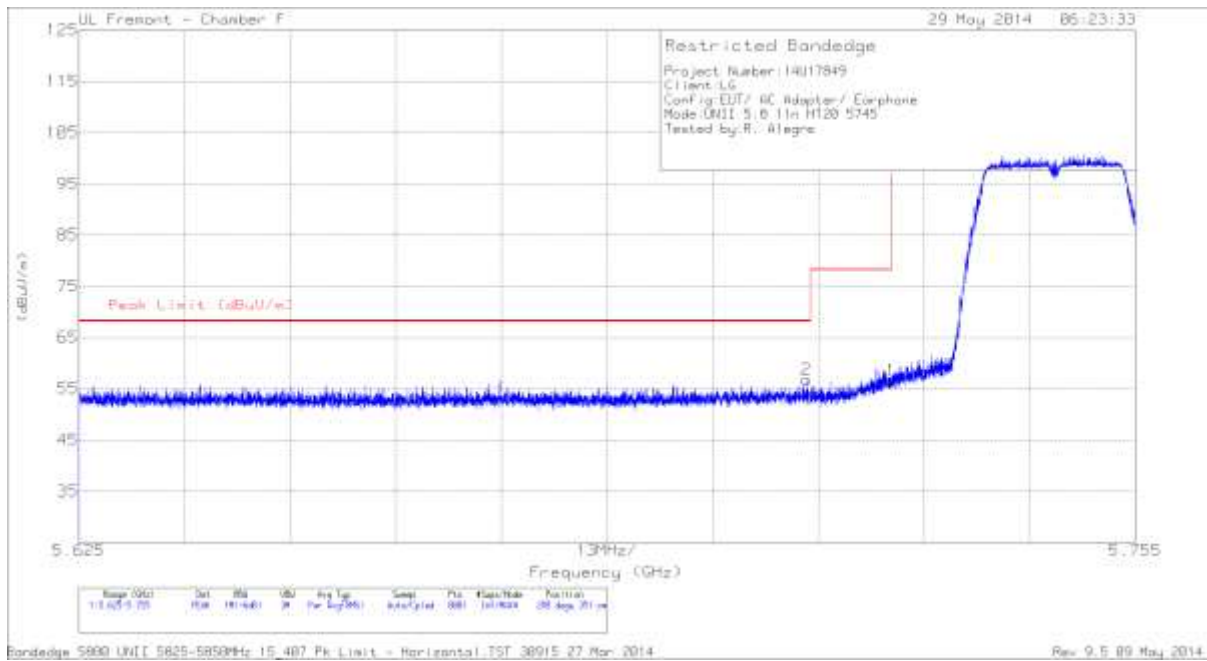
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.872	33.36	PK	30.8	-33.2	30.96	-	-	-	-	68.2	-37.24	0-360	99	H
2	2.187	31.67	PK	31.3	-32.4	30.57	-	-	-	-	68.2	-37.63	0-360	202	H
3	3.13	31.75	PK	32.8	-31.7	32.85	-	-	-	-	68.2	-35.35	0-360	202	H
4	6.782	29.58	PK	35.7	-28.1	37.18	-	-	-	-	68.2	-31.02	0-360	202	V
5	7.183	28.68	PK	35.6	-26.5	37.78	-	-	-	-	68.2	-30.42	0-360	99	V
6	9.934	30.28	PK	37	-23.9	43.38	-	-	-	-	68.2	-24.82	0-360	202	V

PK - Peak detector

## 10.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL

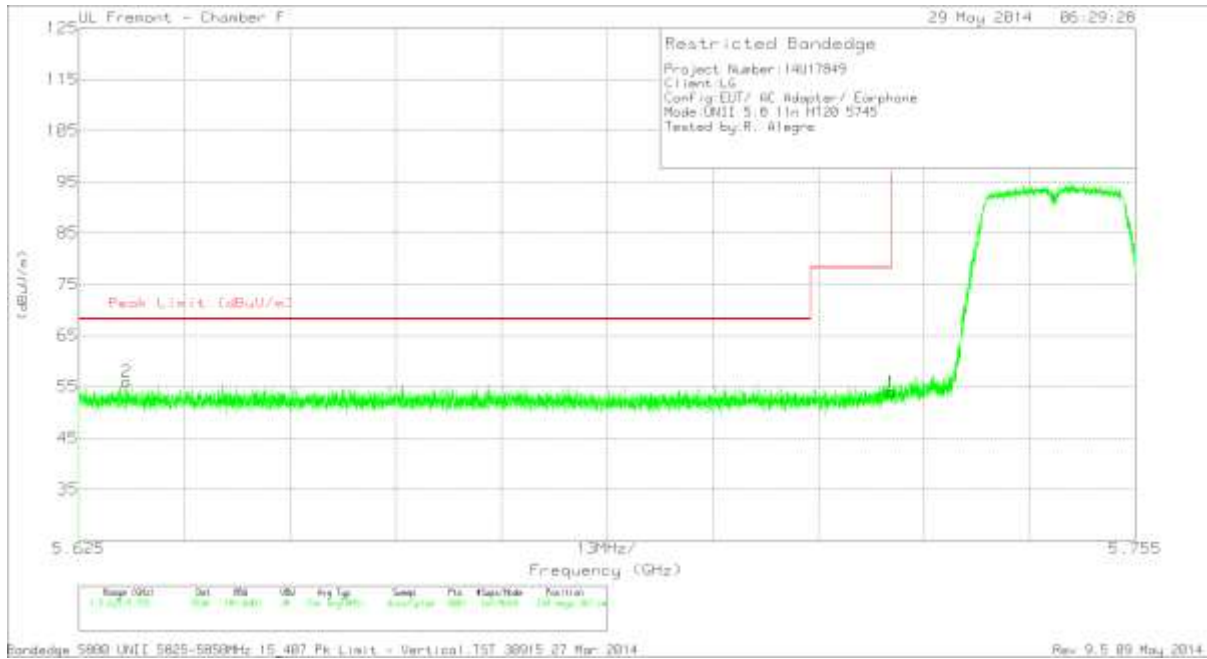


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.98	PK	34.8	-19.1	56.68	78.2	-21.52	289	351	H
2	5.715	41.08	PK	34.8	-19.1	56.78	68.2	-11.42	289	351	H

PK - Peak detector



VERTICAL

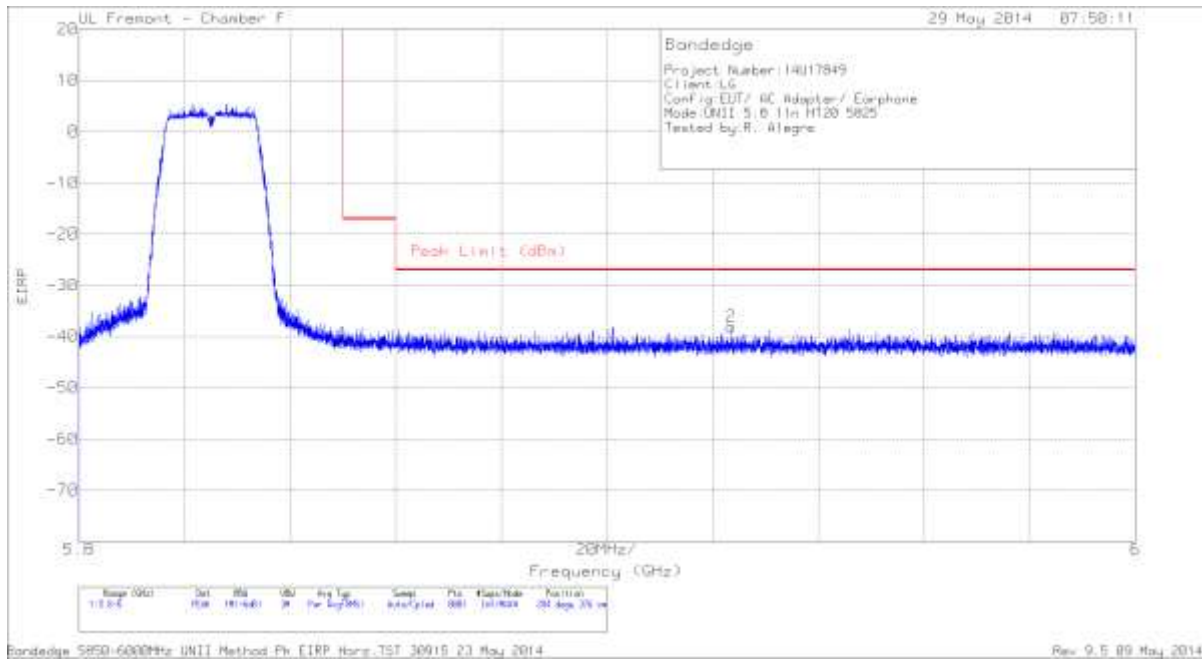


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT120 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.22	PK	34.8	-19.1	53.92	78.2	-24.28	244	361	V
2	5.631	40.65	PK	34.7	-19.3	56.05	68.2	-12.15	244	361	V

PK - Peak detector

### RESTRICTED BANDEGE (HIGH CHANNEL)

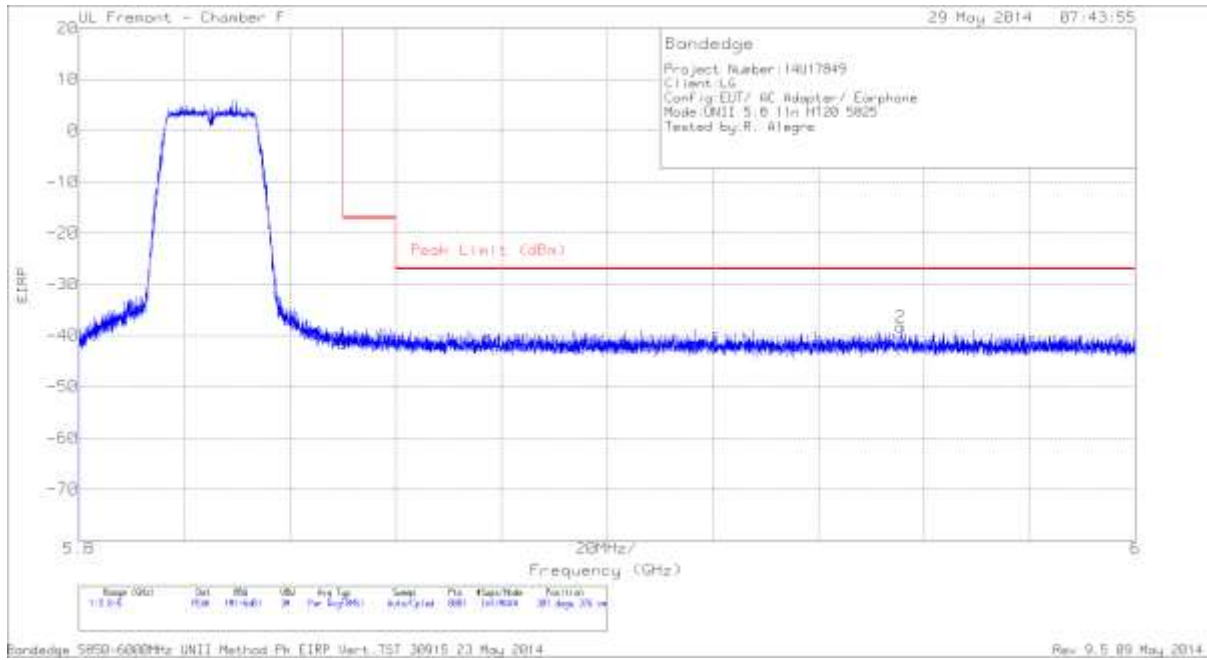
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.09	PK	35	-19	11.8	0	-41.29	-17	-24.29	284	376	H
2	5.923	-66.01	PK	35.2	-19	11.8	0	-38.01	-27	-11.01	284	376	H

PK - Peak detector

VERTICAL

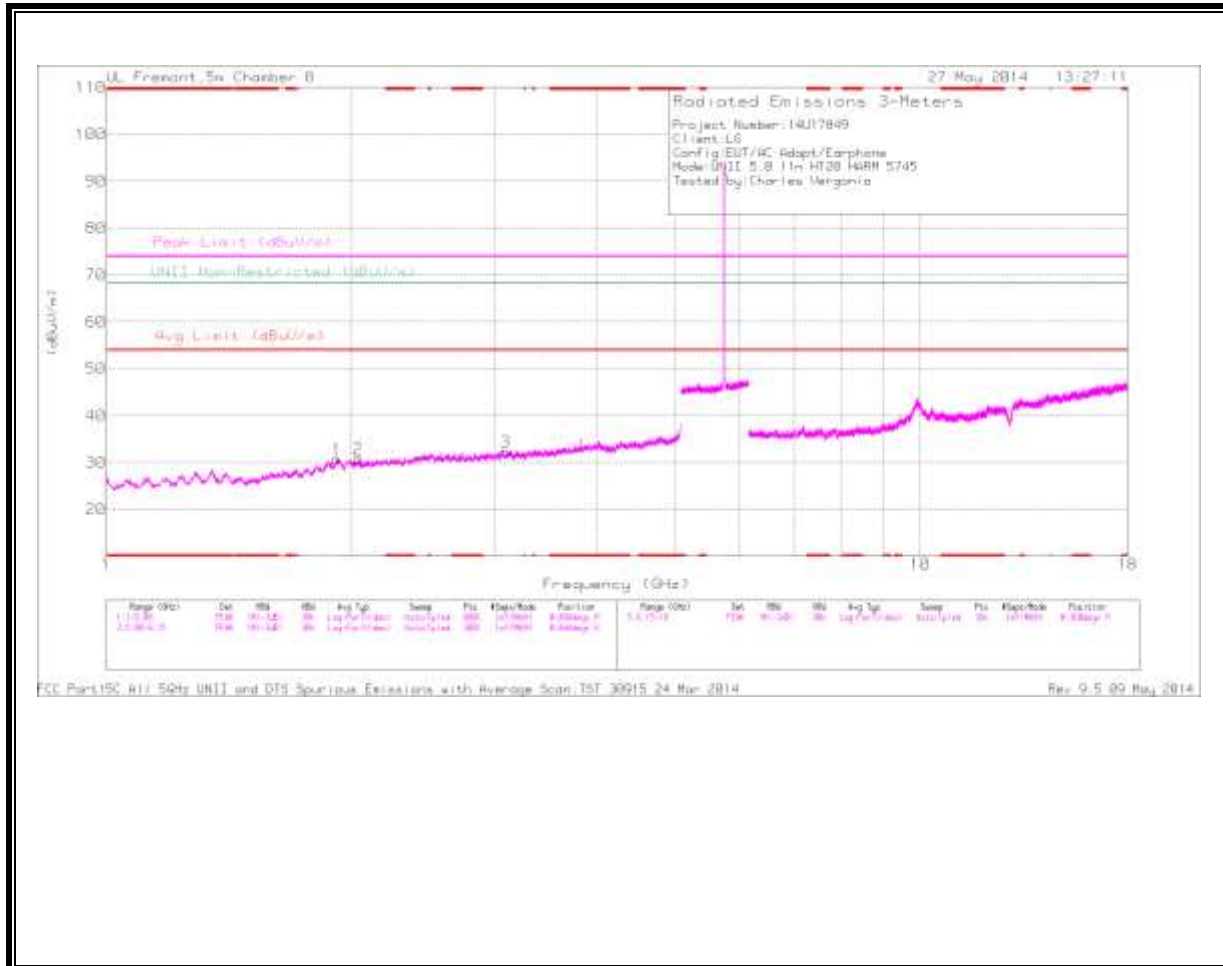


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.35	PK	35	-19	11.8	0	-41.55	-17	-24.55	301	376	V
2	5.956	-66.62	PK	35.2	-18.7	11.8	0	-38.32	-27	-11.32	301	376	V

PK - Peak detector

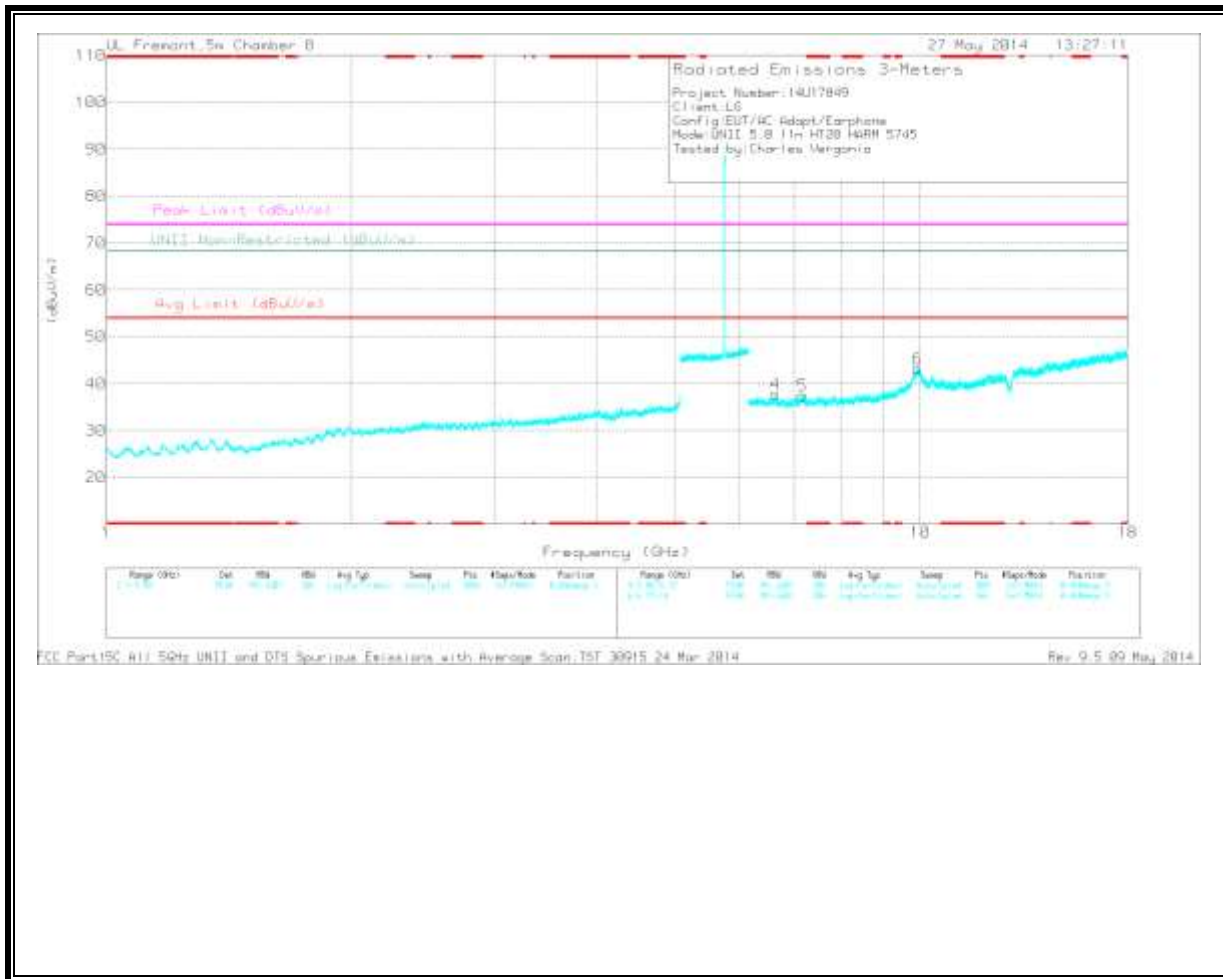
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



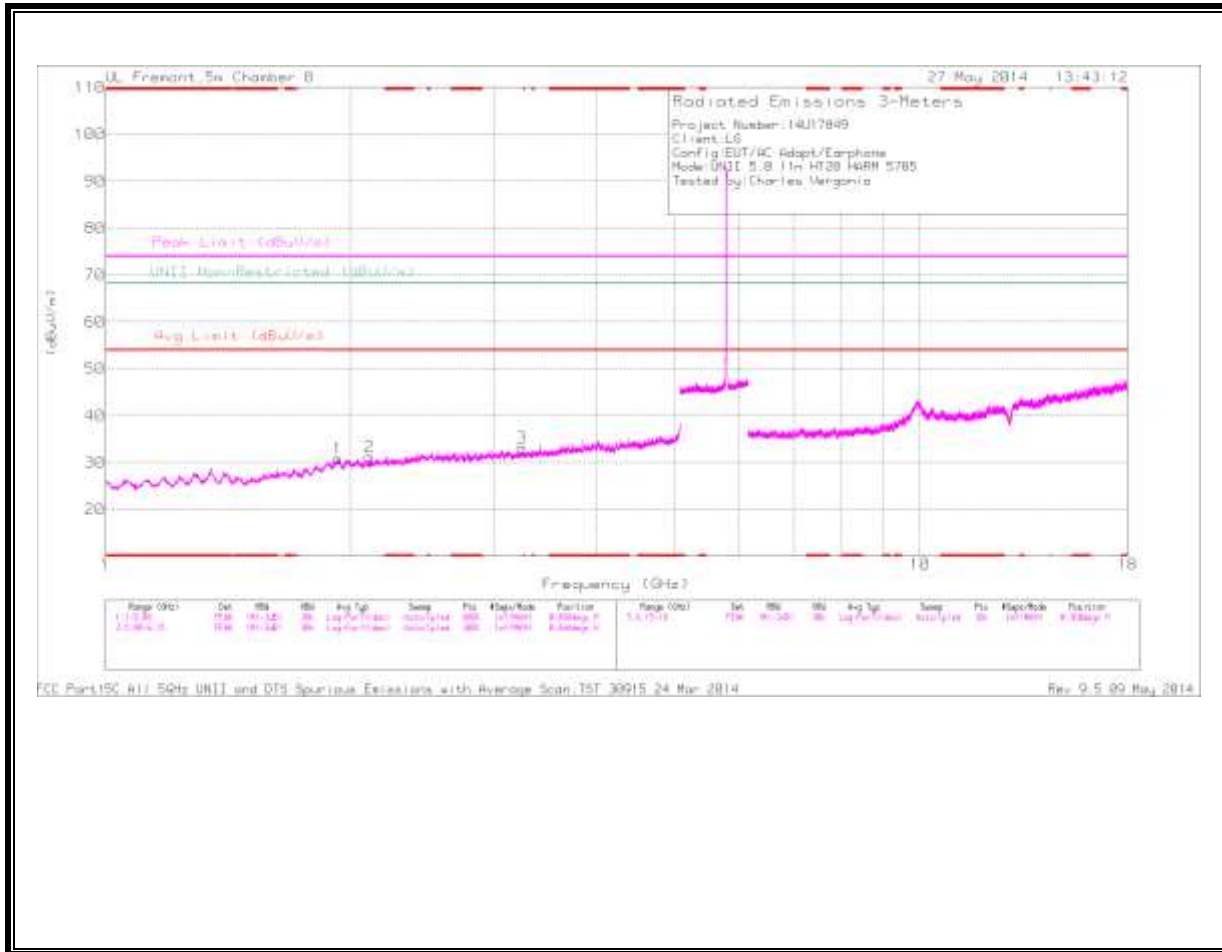
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.917	32.48	PK	31.1	-32.9	30.68	-	-	-	-	68.2	-37.52	0-360	99	H
2	2.041	32.99	PK	31.3	-33.6	30.69	-	-	-	-	68.2	-37.51	0-360	201	H
3	3.096	31.34	PK	32.9	-32	32.24	-	-	-	-	68.2	-35.96	0-360	99	H
4	6.635	30.36	PK	35.7	-28.4	37.66	-	-	-	-	68.2	-30.54	0-360	202	V
5	7.176	28.56	PK	35.6	-26.7	37.46	-	-	-	-	68.2	-30.74	0-360	99	V
6	9.925	30.06	PK	37	-23.9	43.16	-	-	-	-	68.2	-25.04	0-360	202	V

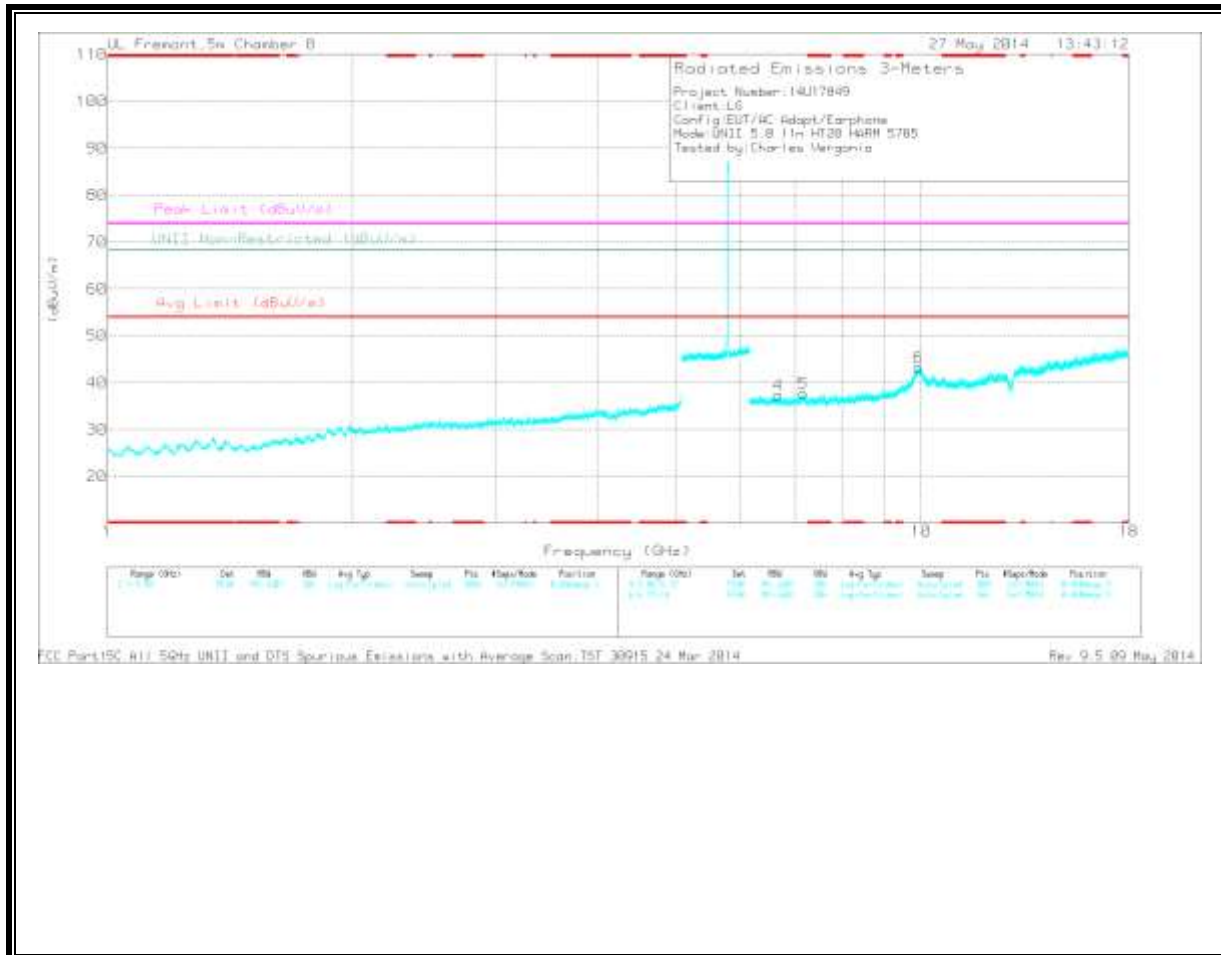
PK - Peak detector

MID CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

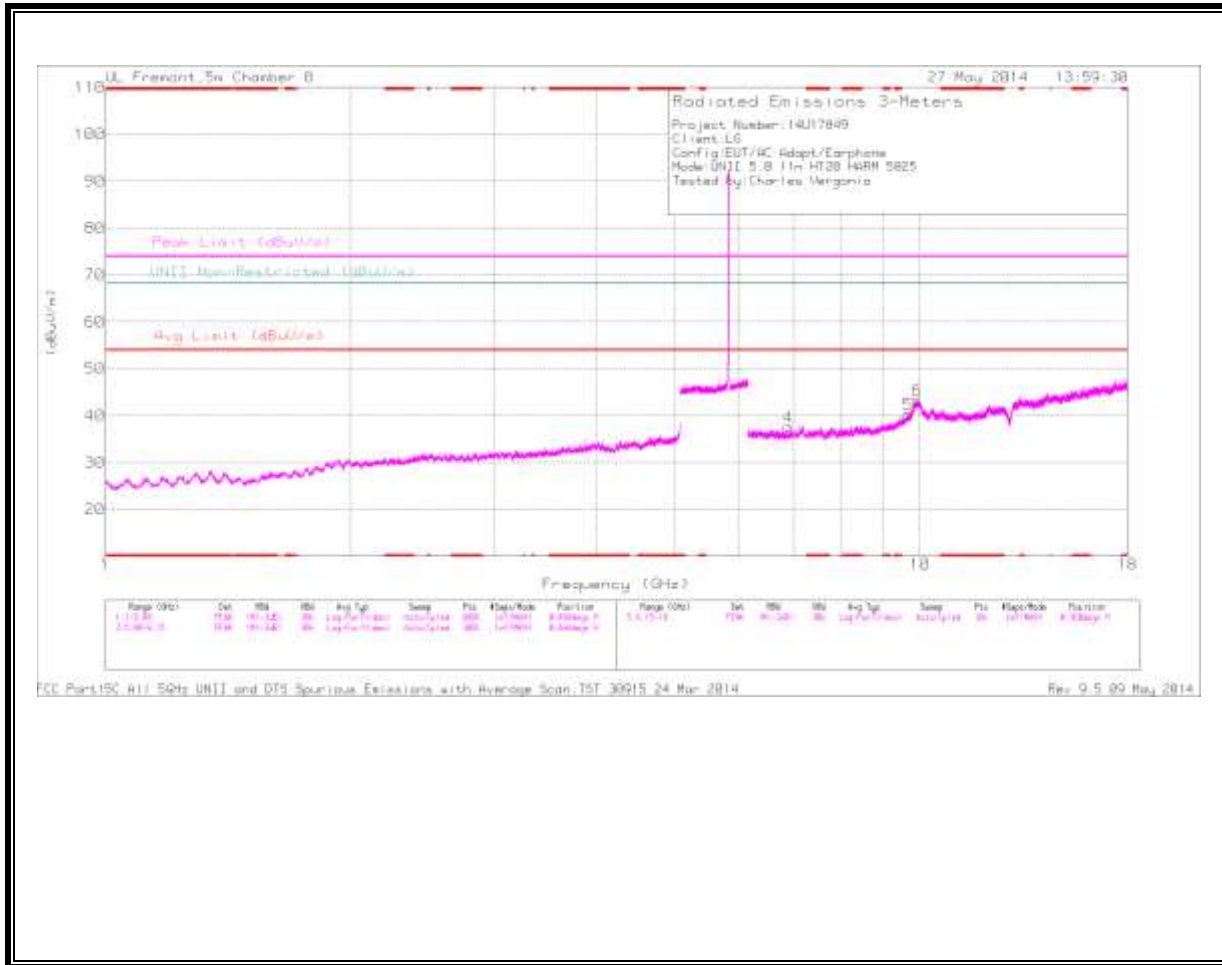


MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.928	32.57	PK	31.1	-32.8	30.87	-	-	-	-	68.2	-37.33	0-360	202	H
2	2.11	33.35	PK	31.3	-33.4	31.25	-	-	-	-	68.2	-36.95	0-360	202	H
3	3.247	32.38	PK	32.8	-32	33.18	-	-	-	-	68.2	-35.02	0-360	202	H
4	6.675	30.31	PK	35.7	-28.7	37.31	-	-	-	-	68.2	-30.89	0-360	99	V
5	7.161	29.23	PK	35.6	-27.1	37.73	-	-	-	-	68.2	-30.47	0-360	99	V
6	9.928	30.17	PK	37	-23.9	43.27	-	-	-	-	68.2	-24.93	0-360	99	V

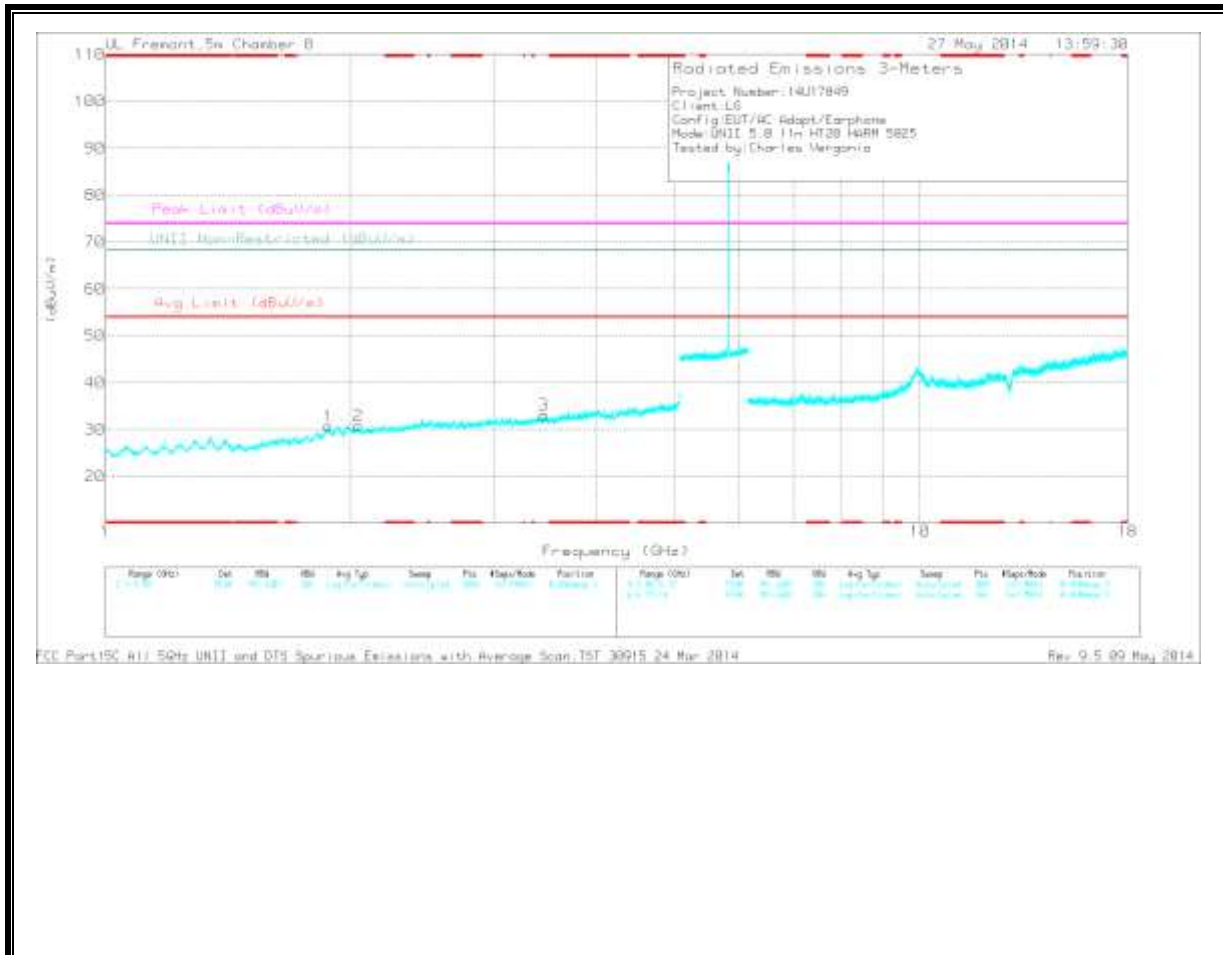
PK - Peak detector

HIGH CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

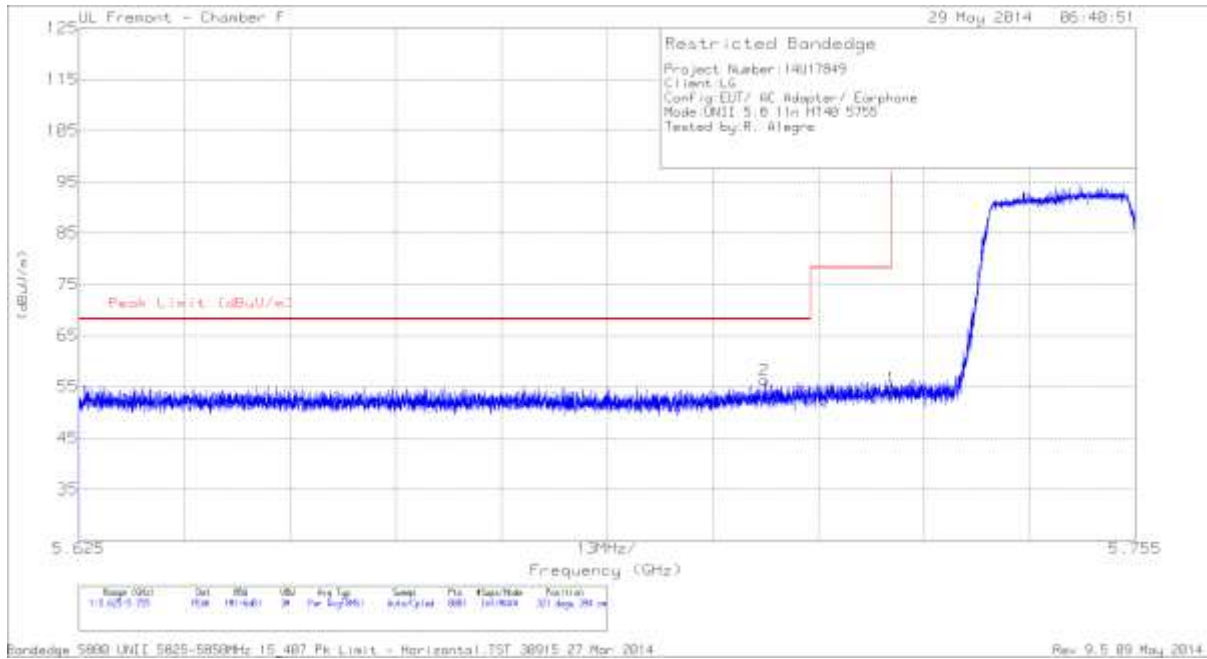
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.876	32.97	PK	30.8	-33.1	30.67	-	-	-	-	68.2	-37.53	0-360	99	V
2	2.043	33.18	PK	31.3	-33.6	30.88	-	-	-	-	68.2	-37.32	0-360	202	V
3	3.455	31.49	PK	32.8	-31.1	33.19	-	-	-	-	68.2	-35.01	0-360	202	V
4	6.894	30.06	PK	35.6	-28.1	37.56	-	-	-	-	68.2	-30.64	0-360	202	H
5	9.68	27.37	PK	36.9	-24	40.27	-	-	-	-	68.2	-27.93	0-360	99	H
6	9.919	30.37	PK	37	-24.1	43.27	-	-	-	-	68.2	-24.93	0-360	202	H

PK - Peak detector

### 10.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

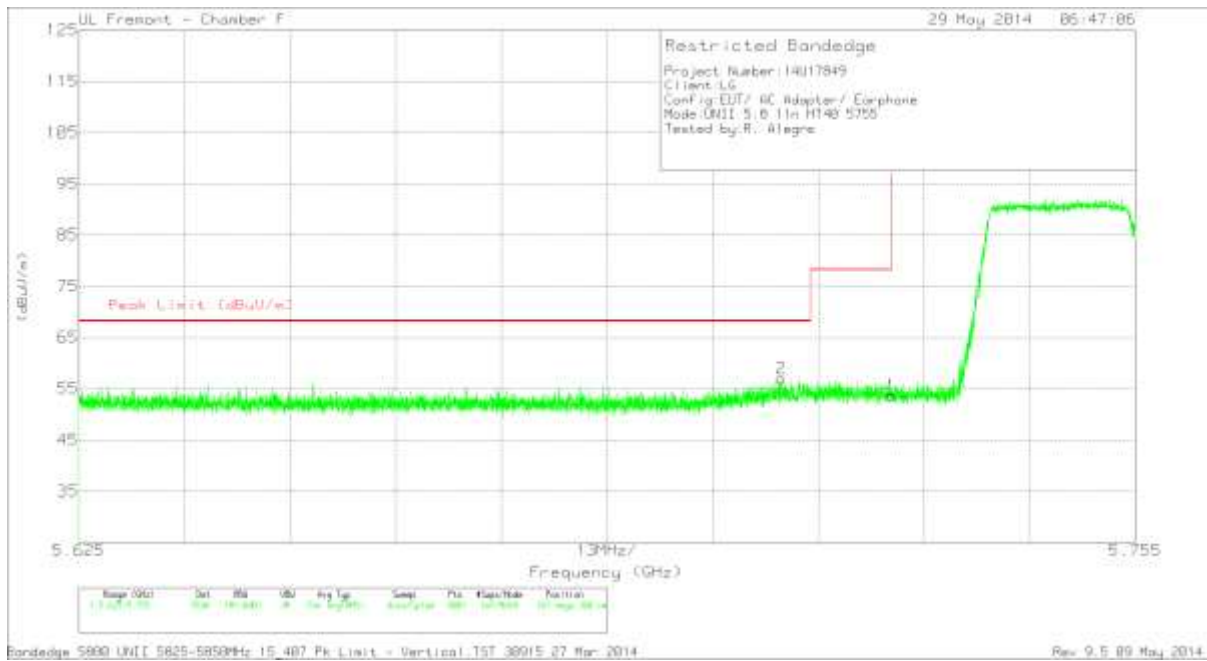
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39	PK	34.8	-19.1	0	54.7	78.2	-23.5	321	394	H
2	5.709	40.47	PK	34.8	-19	0	56.27	68.2	-11.93	321	394	H

PK - Peak detector

VERTICAL

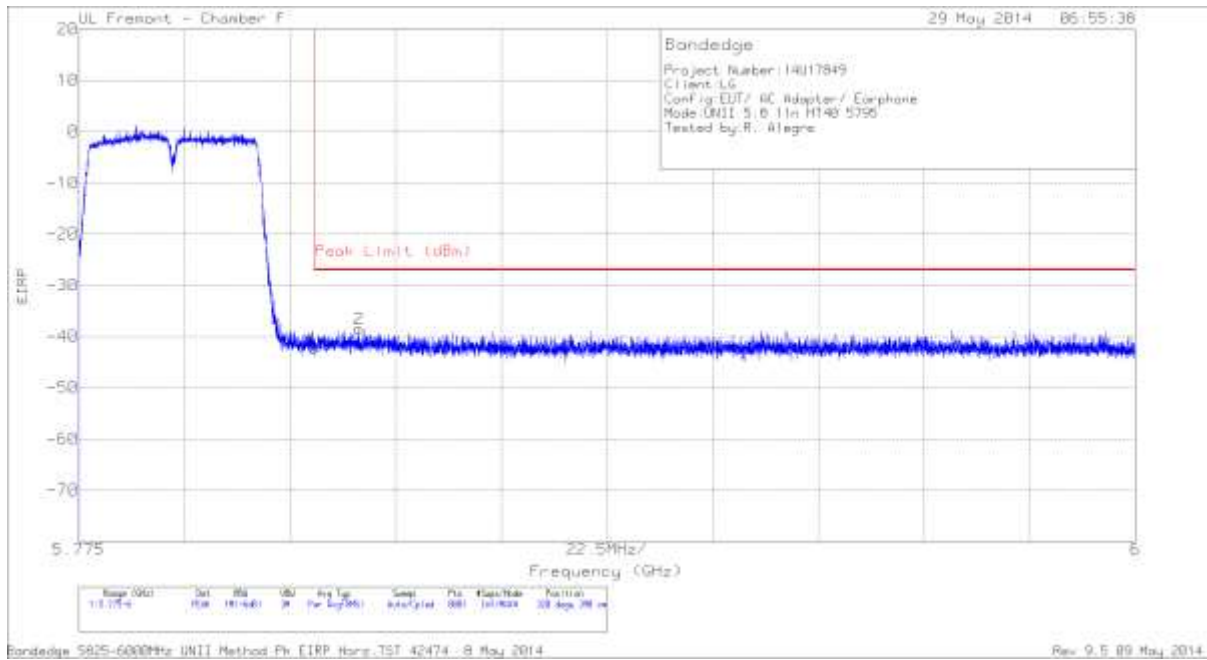


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.98	PK	34.8	-19.1	0	53.68	78.2	-24.52	267	360	V
2	5.711	41.25	PK	34.8	-19.1	0	56.95	68.2	-11.25	267	360	V

PK - Peak detector

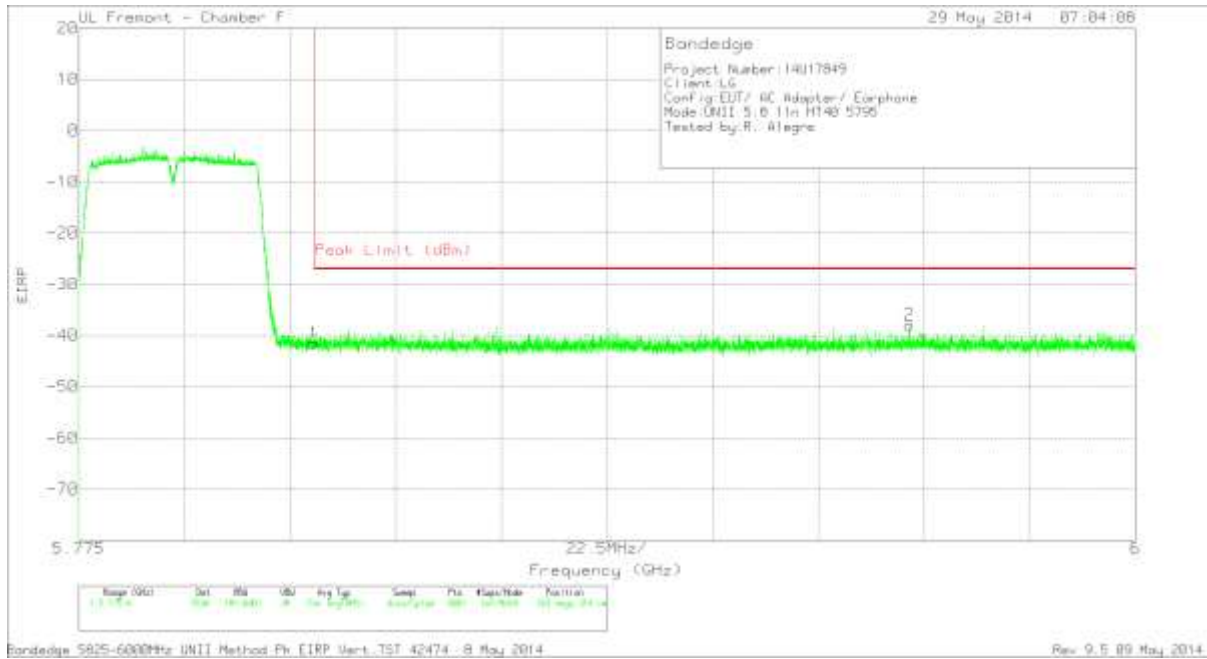
### RESTRICTED BANDEGE (HIGH CHANNEL)

HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.825	-70.3	PK	35	-18.7	11.8	0	-42.2	-27	-15.2	320	390	H
2	5.835	-66.57	PK	35	-18.8	11.8	0	-38.57	-27	-11.57	320	390	H

VERTICAL



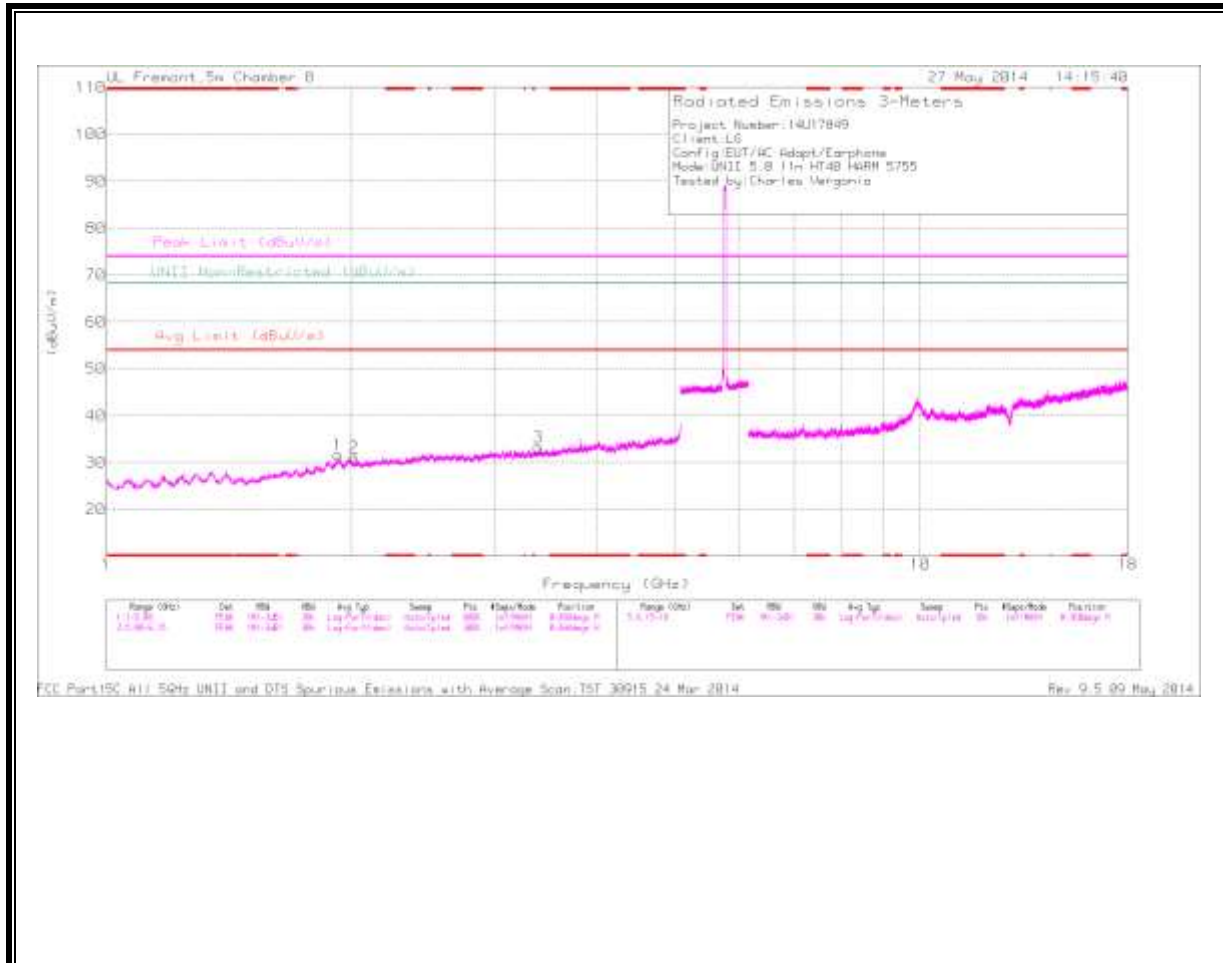
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.825	-69.6	PK	35	-18.7	11.8	0	-41.5	-27	-14.5	263	314	V
2	5.952	-66.22	PK	35.2	-18.7	11.8	0	-37.92	-27	-10.92	263	314	V

PK - Peak detector



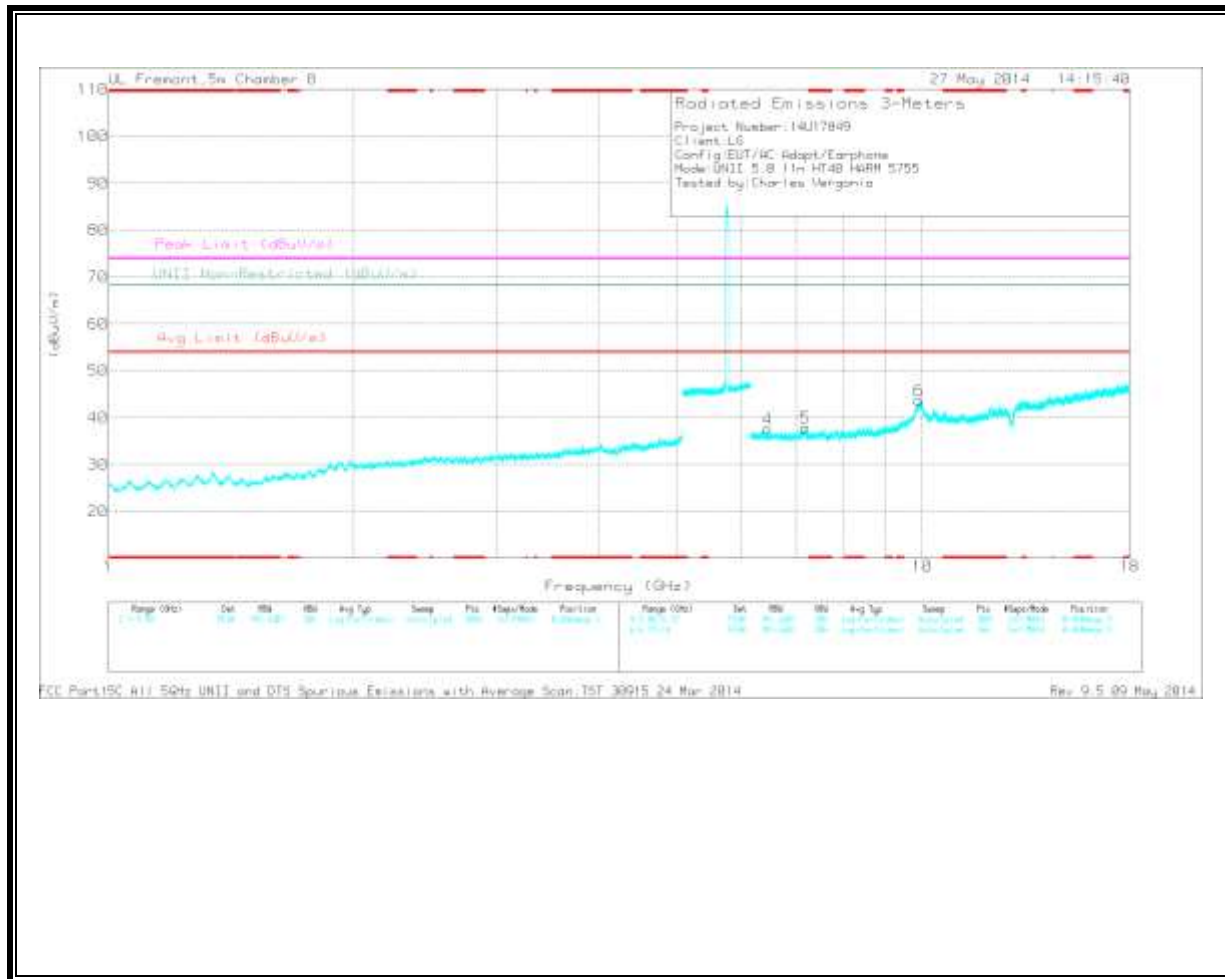
**HARMONICS AND SPURIOUS EMISSIONS**

LOW CHANNEL  
 HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



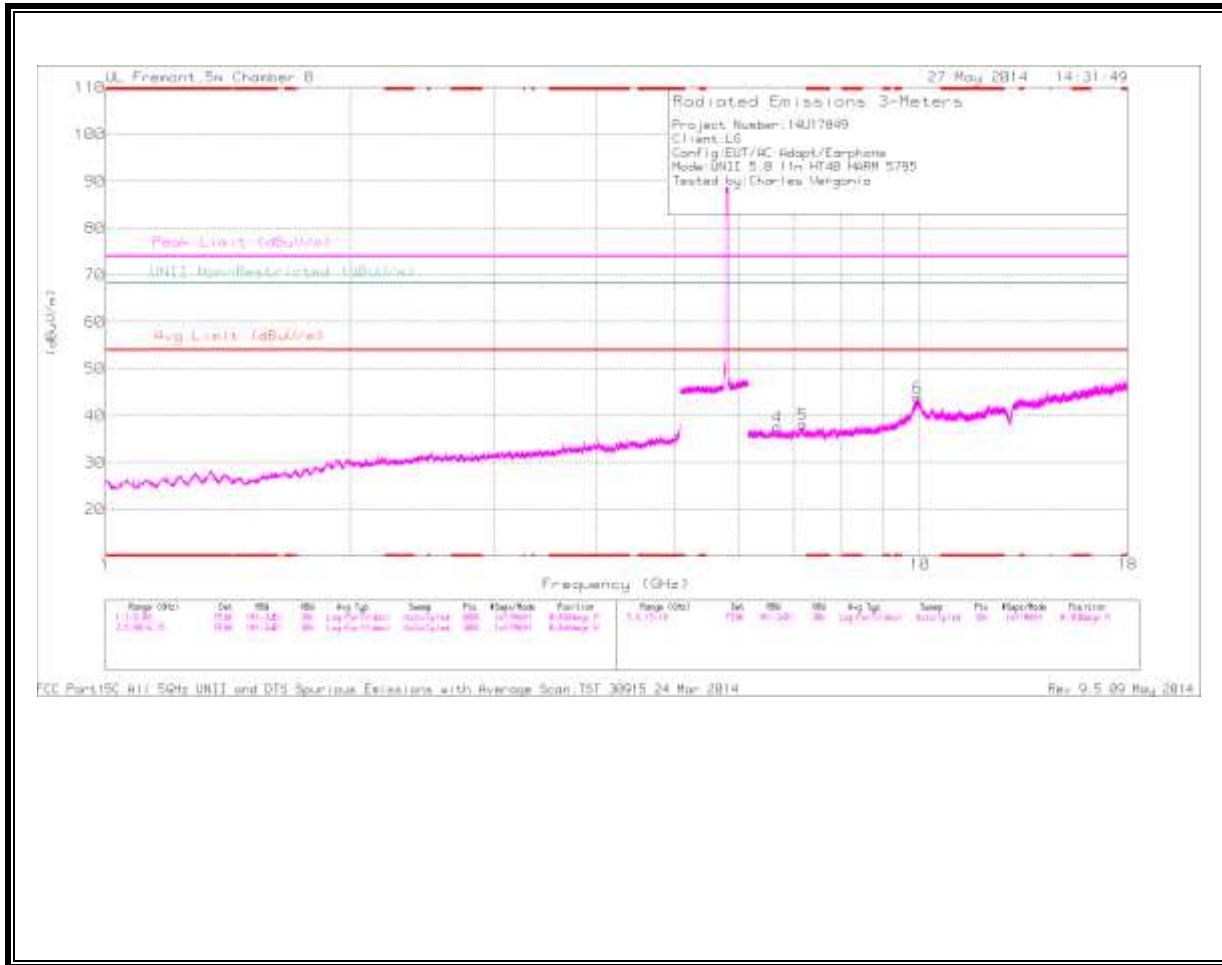
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/CbI/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.923	33.45	PK	31.1	-32.9	31.65	-	-	-	-	68.2	-36.55	0-360	202	H
2	2.017	33.11	PK	31.3	-33.3	31.11	-	-	-	-	68.2	-37.09	0-360	99	H
3	3.393	31.84	PK	32.8	-31.4	33.24	-	-	-	-	68.2	-34.96	0-360	99	H
4	6.454	31.34	PK	35.6	-29.3	37.64	-	-	-	-	68.2	-30.56	0-360	99	V
5	7.185	28.74	PK	35.6	-26.5	37.84	-	-	-	-	68.2	-30.36	0-360	99	V
6	9.905	30.77	PK	37	-24.1	43.67	-	-	-	-	68.2	-24.53	0-360	202	V

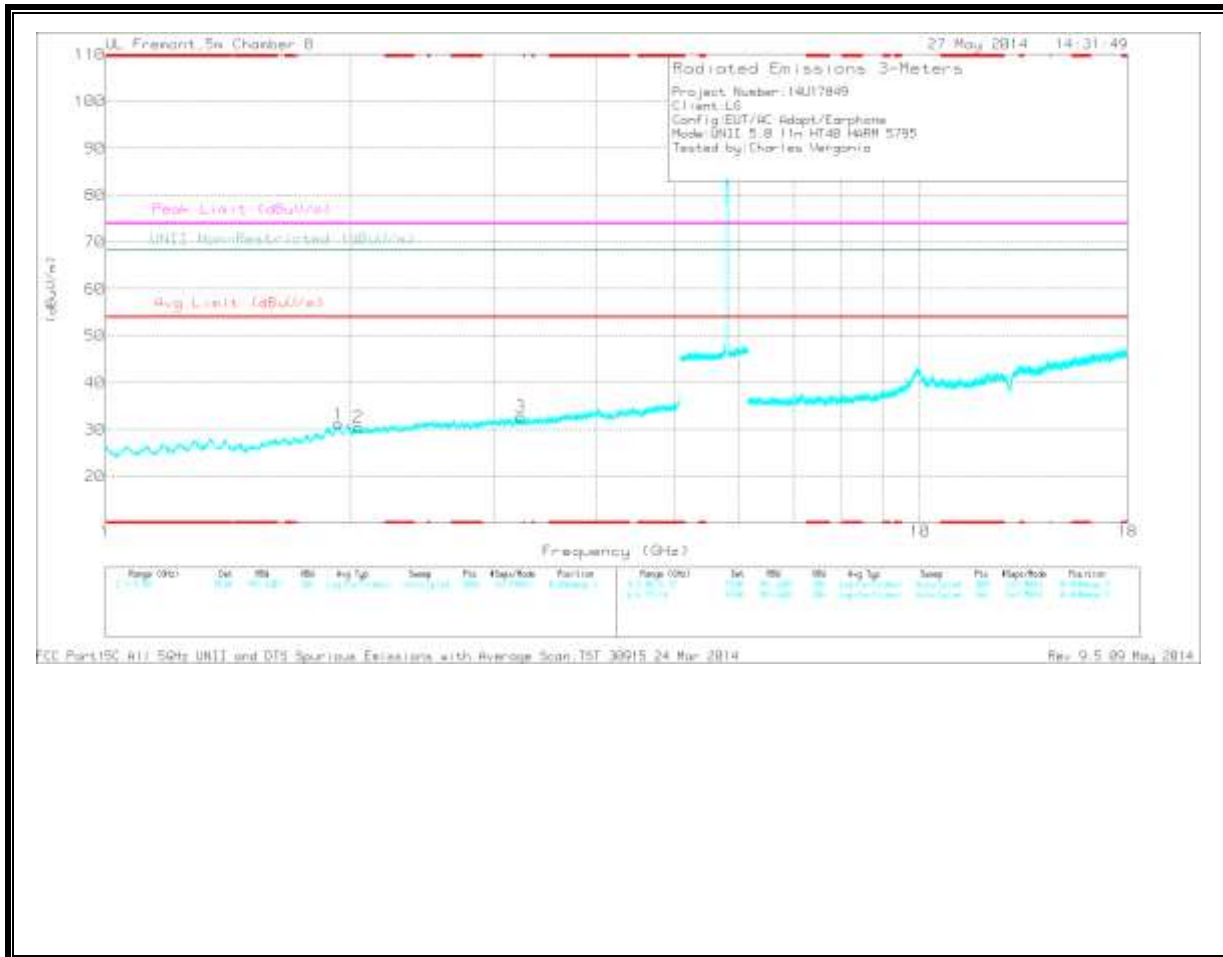
PK - Peak detector

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

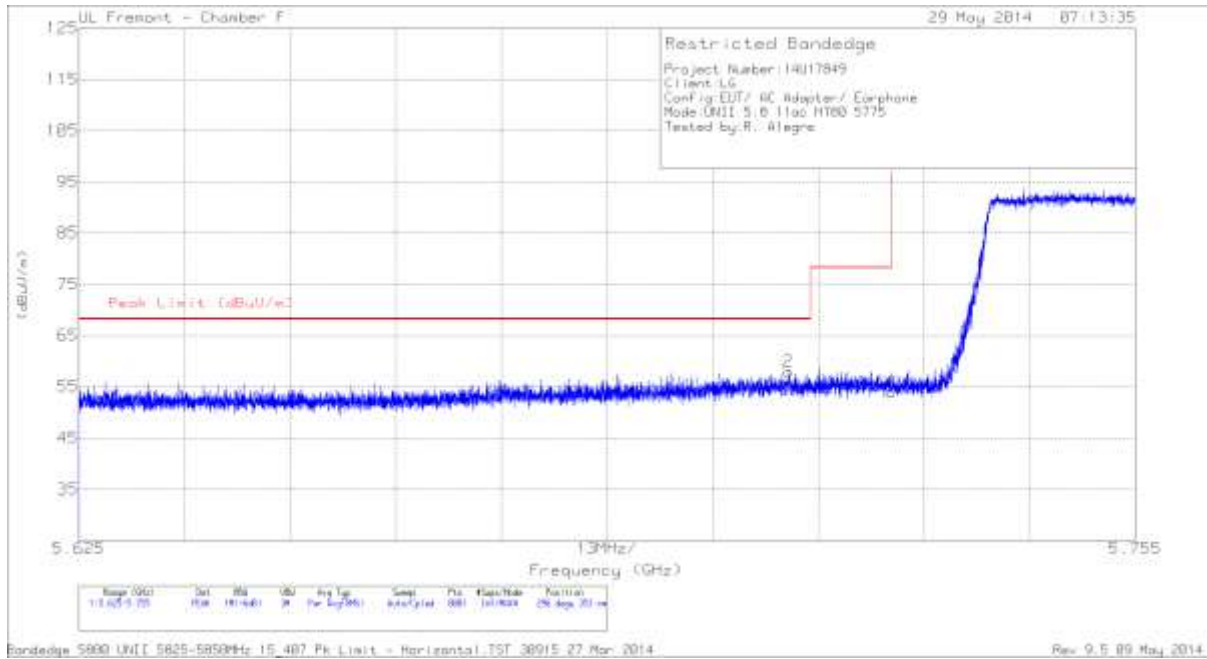
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb1/Ftr /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)	Azimuth (Degs)	Height (cm)	Polarity
1	1.932	32.8	PK	31.2	-32.8	31.2	-	-	-	-	68.2	-37	0-360	99	V
2	2.046	33	PK	31.3	-33.7	30.6	-	-	-	-	68.2	-37.6	0-360	99	V
3	3.234	31.94	PK	32.8	-31.9	32.84	-	-	-	-	68.2	-35.36	0-360	202	V
4	6.681	30.61	PK	35.7	-28.7	37.61	-	-	-	-	68.2	-30.59	0-360	202	H
5	7.186	29.16	PK	35.5	-26.5	38.16	-	-	-	-	68.2	-30.04	0-360	202	H
6	9.937	30.8	PK	37	-24	43.8	-	-	-	-	68.2	-24.4	0-360	99	H

PK - Peak detector

**10.1.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND  
 RESTRICTED BANDEDGE (LOW CHANNEL)**

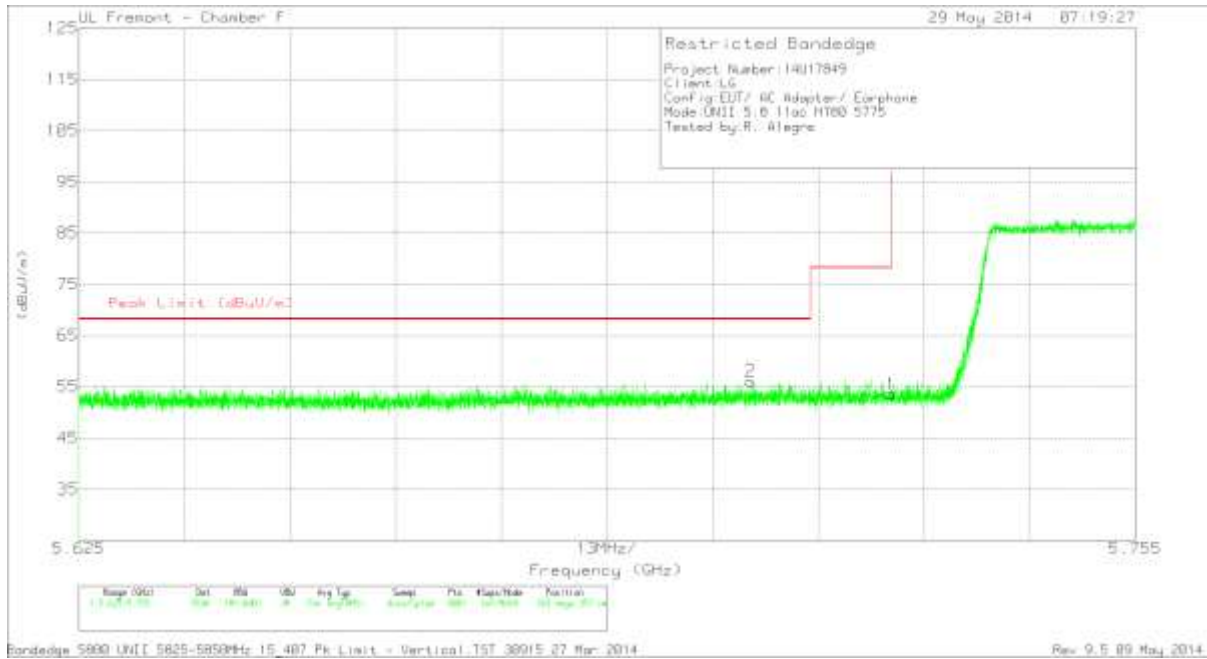
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.23	PK	34.8	-19.1	0	53.93	78.2	-24.27	296	353	H
2	5.712	42.32	PK	34.8	-19.1	0	58.02	68.2	-10.18	296	353	H

PK - Peak detector

VERTICAL



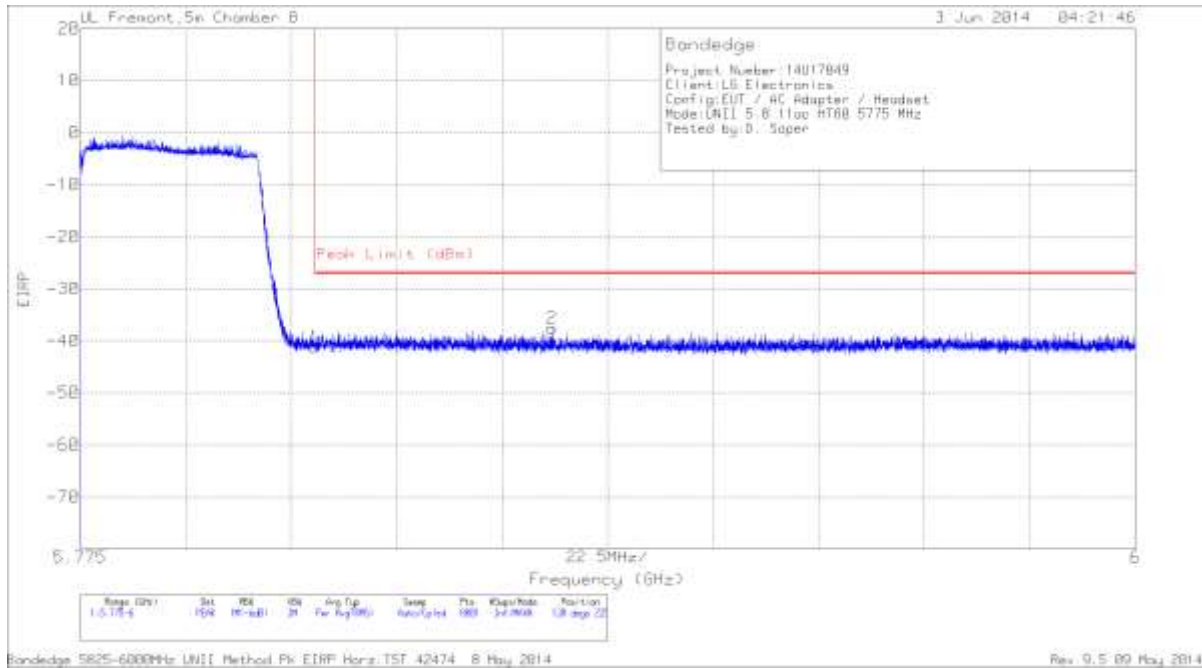
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.84	PK	34.8	-19.1	0	53.54	78.2	-24.66	263	357	V
2	5.708	40.27	PK	34.8	-19	0	56.07	68.2	-12.13	263	357	V

PK - Peak detector



### UNRESTRICTED BANDEGE (HIGH CHANNEL)

#### HORIZONTAL

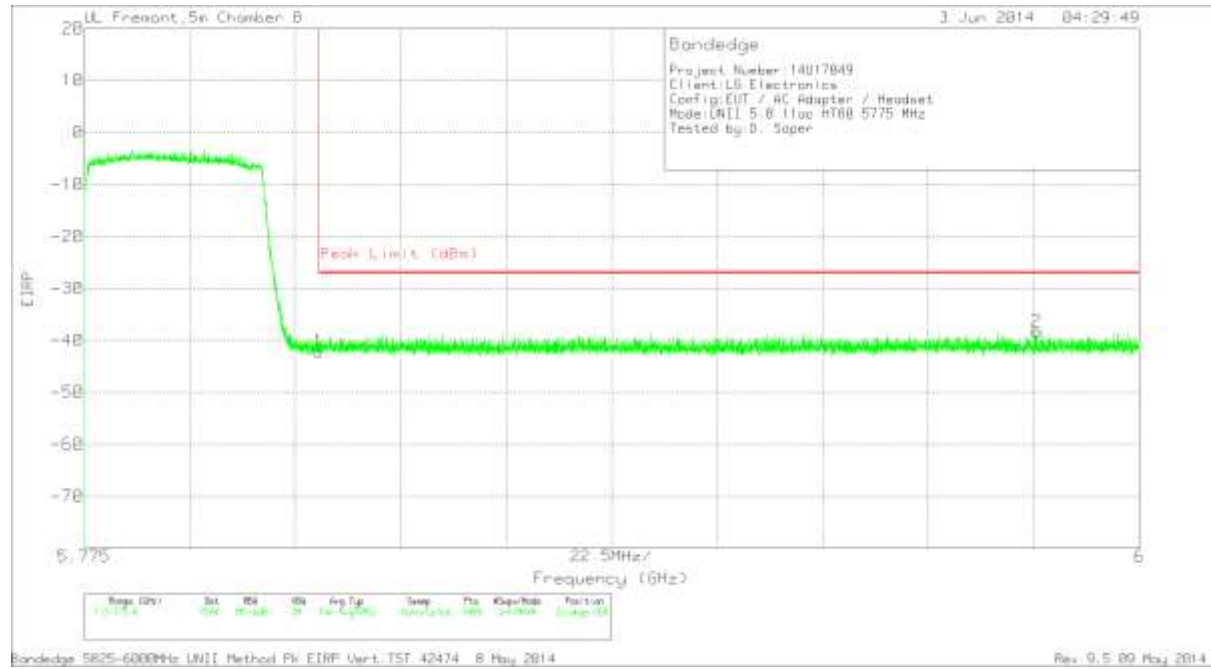


#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.825	-67.92	PK	34.8	-19.9	11.8	-41.22	-27	-14.22	130	225	H
2	5.876	-64.75	PK	34.9	-19.5	11.8	-37.55	-27	-10.55	130	225	H

PK - Peak detector

VERTICAL



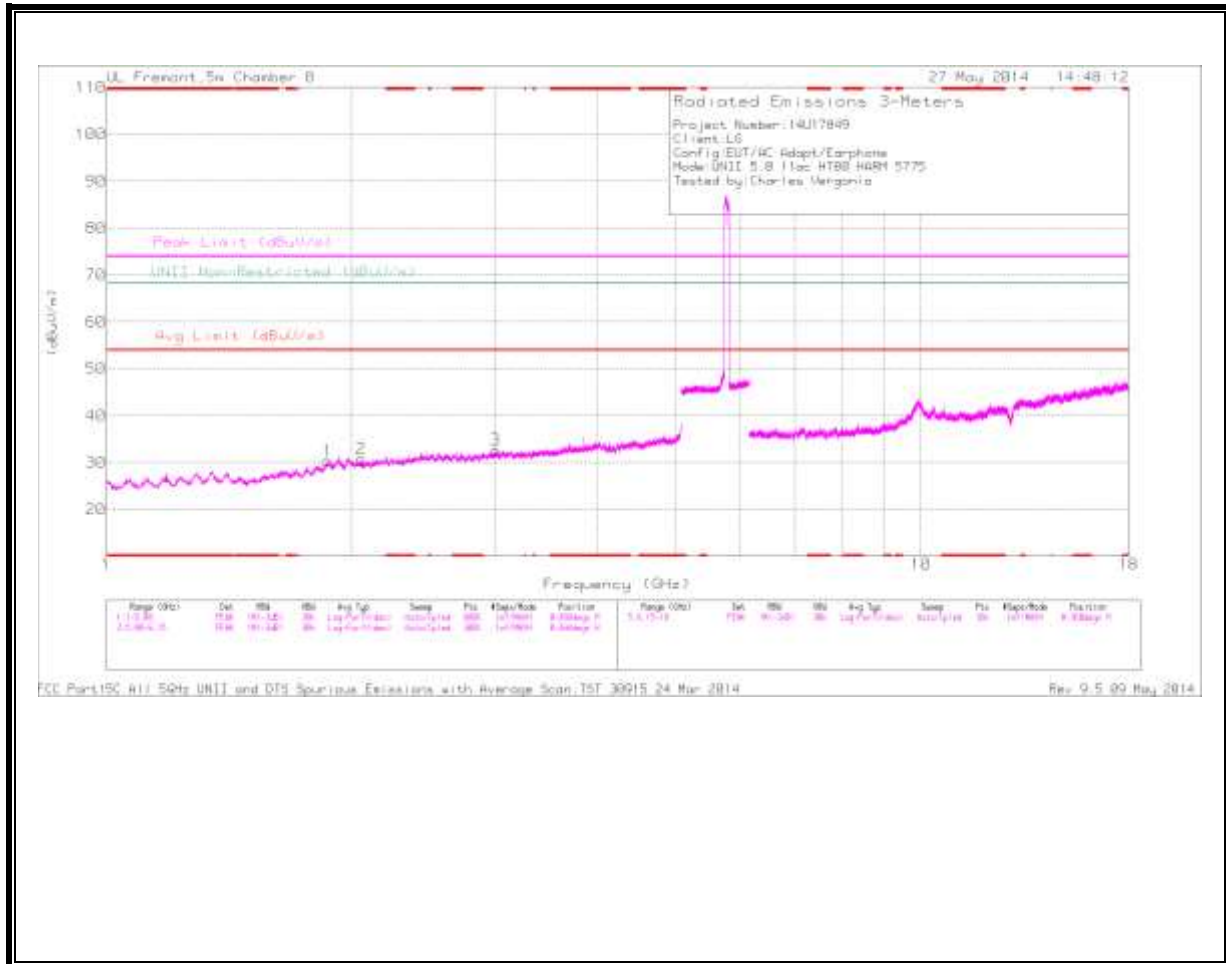
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.825	-68.82	PK	34.8	-19.9	11.8	-42.12	-27	-15.12	23	268	V
2	5.978	-65.86	PK	35.2	-19.4	11.8	-38.26	-27	-11.26	23	268	V

PK - Peak detector

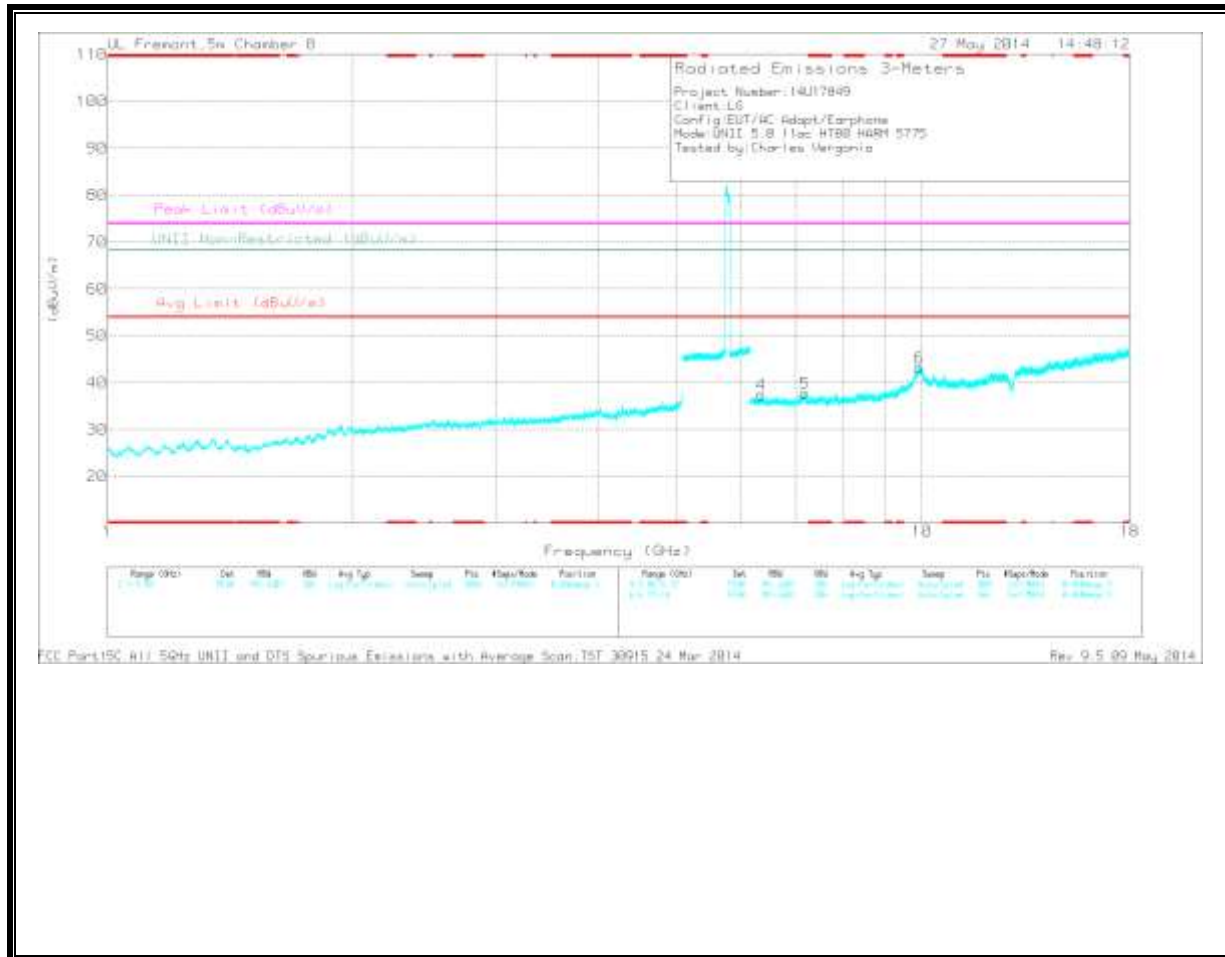
**HARMONICS AND SPURIOUS EMISSIONS**

HIGH CHANNEL  
HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

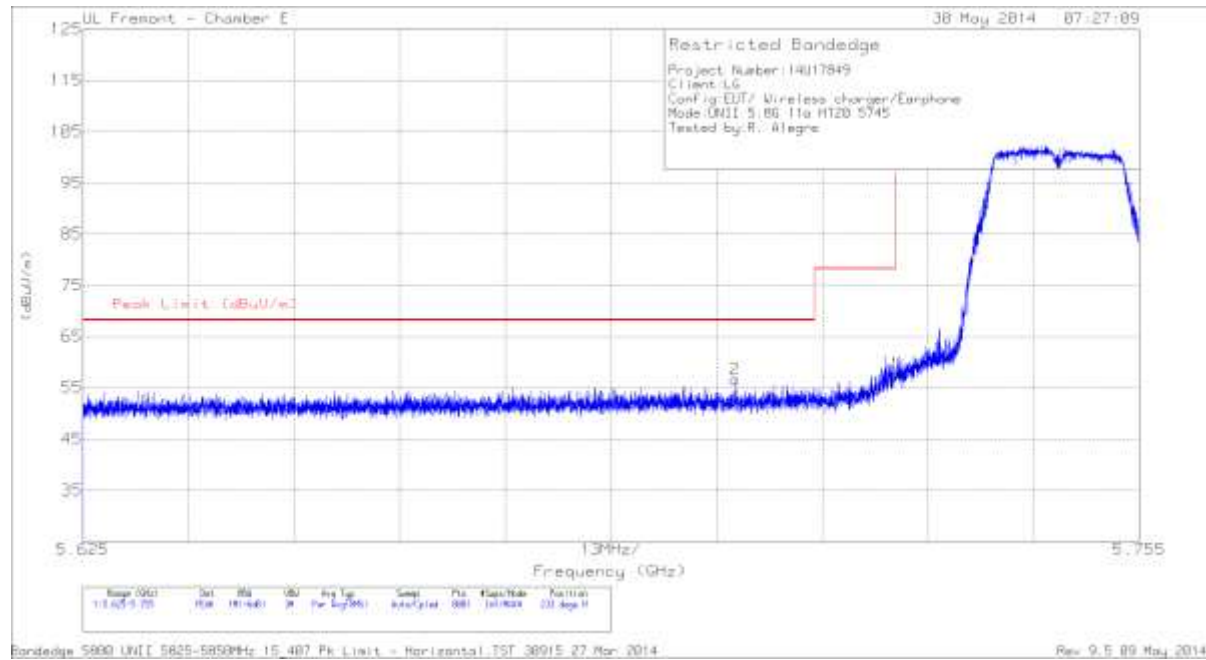
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.868	32.84	PK	30.8	-33.3	30.34	-	-	-	-	68.2	-37.86	0-360	99	H
2	2.054	33.27	PK	31.3	-33.8	30.77	-	-	-	-	68.2	-37.43	0-360	99	H
3	3.005	31.91	PK	32.8	-32	32.71	-	-	-	-	68.2	-35.49	0-360	99	H
4	6.346	29.51	PK	35.5	-27.6	37.41	-	-	-	-	68.2	-30.79	0-360	99	V
5	7.179	28.66	PK	35.6	-26.6	37.66	-	-	-	-	68.2	-30.54	0-360	99	V
6	9.931	30.02	PK	37	-23.9	43.12	-	-	-	-	68.2	-25.08	0-360	202	V

PK - Peak detector

**WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH WPC CHARGER AND COVER**

**UNRESTRICTED BANDEDGE (LOW CHANNEL)**

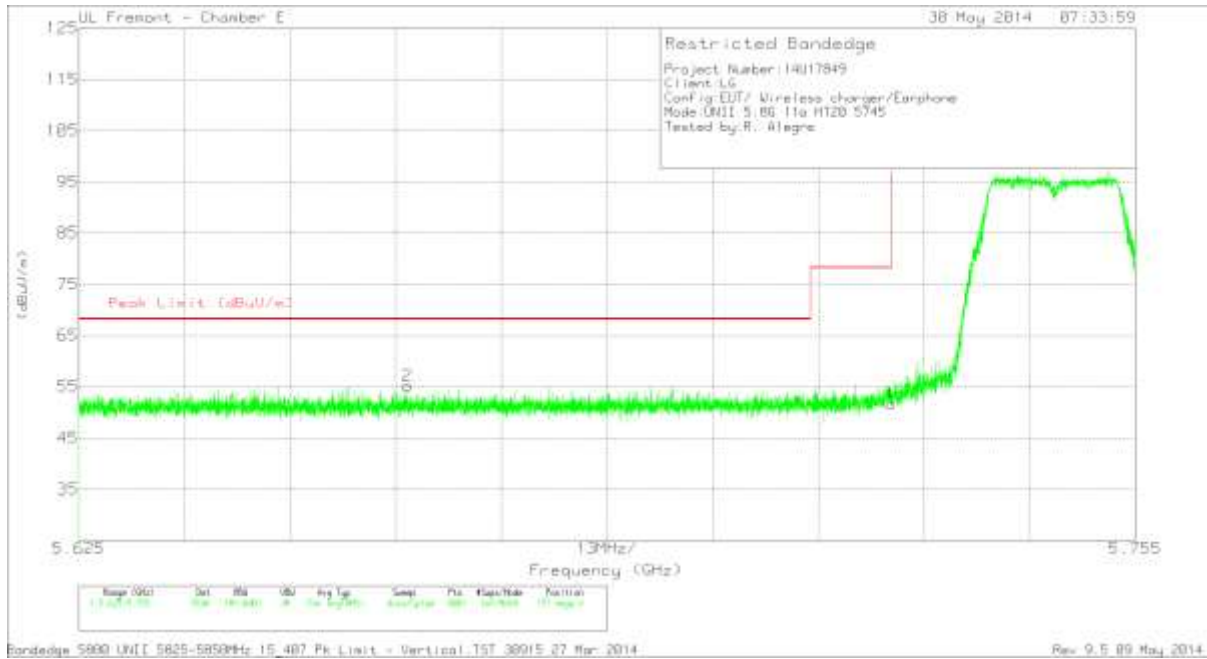
HORIZONTAL



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.705	42.79	PK	34.8	-21	0	56.59	68.2	-11.61	233	316	H
1	5.725	43.78	PK	34.8	-20.8	0	57.78	78.2	-20.42	233	316	H

PK - Peak detector

VERTICAL

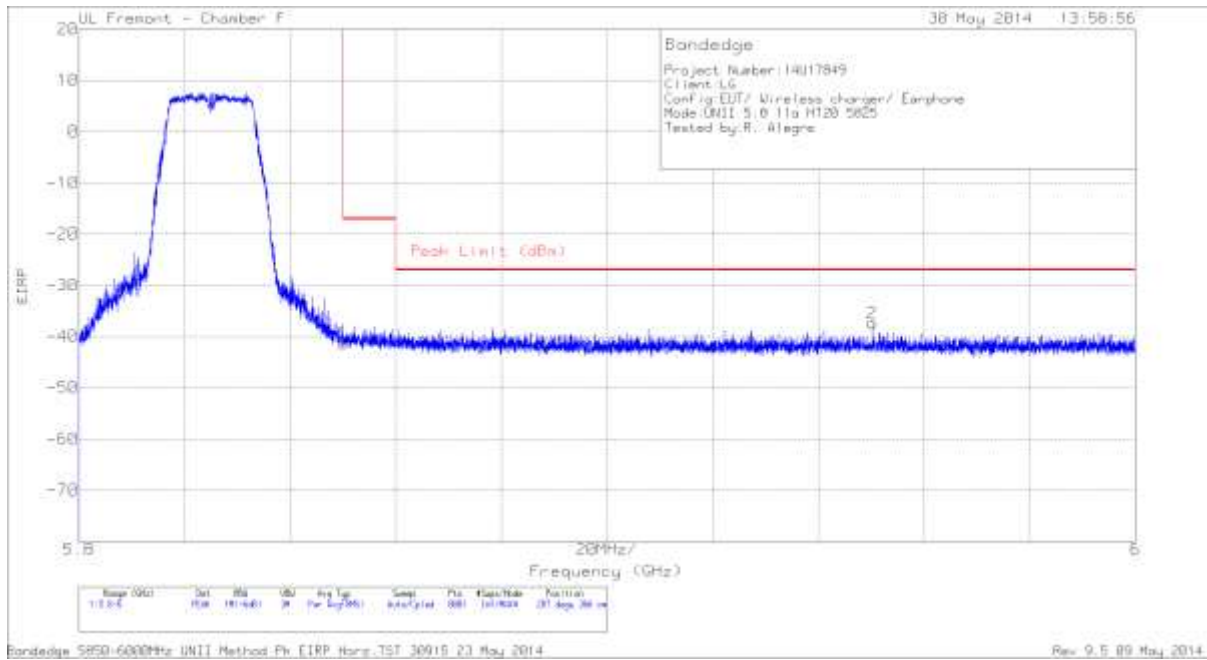


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.665	41.38	PK	34.7	-20.9	0	55.18	68.2	-13.02	151	389	V
1	5.725	37.64	PK	34.8	-20.8	0	51.64	78.2	-26.56	151	389	V

PK - Peak detector

**RESTRICTED BANDEGE (HIGH CHANNEL)**

HORIZONTAL

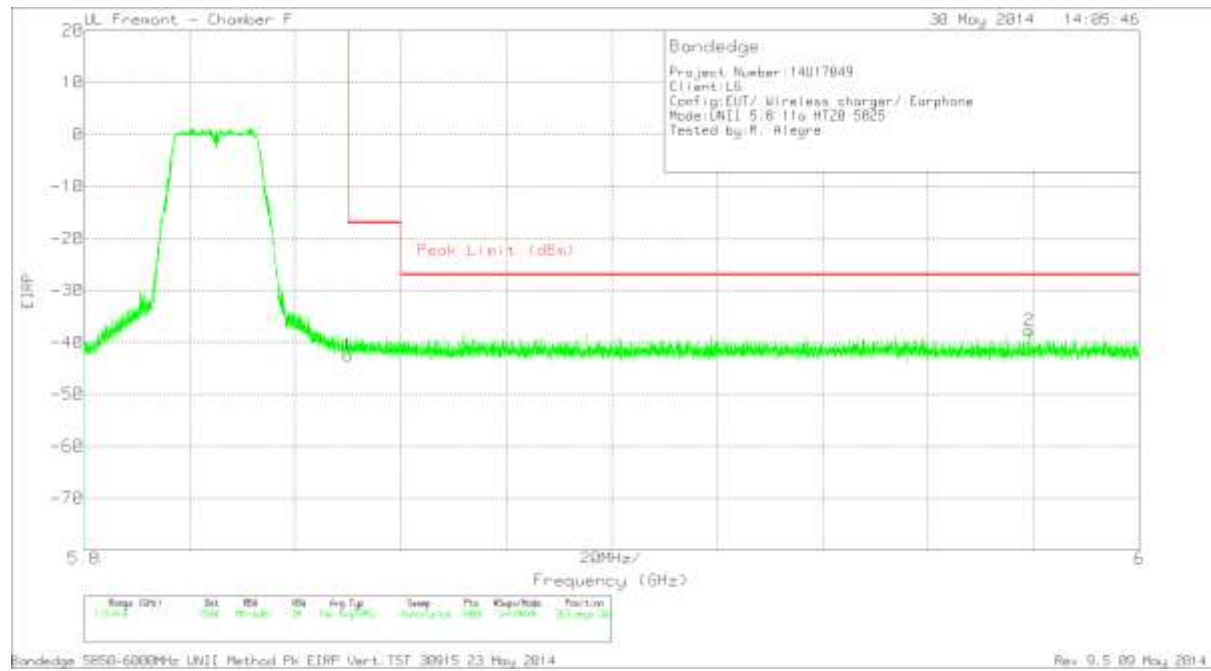


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.12	PK	35	-19	11.8	0	-41.32	-17	-24.32	287	366	H
2	5.95	-65.71	PK	35.2	-18.7	11.8	0	-37.41	-27	-10.41	287	366	H

PK - Peak detector



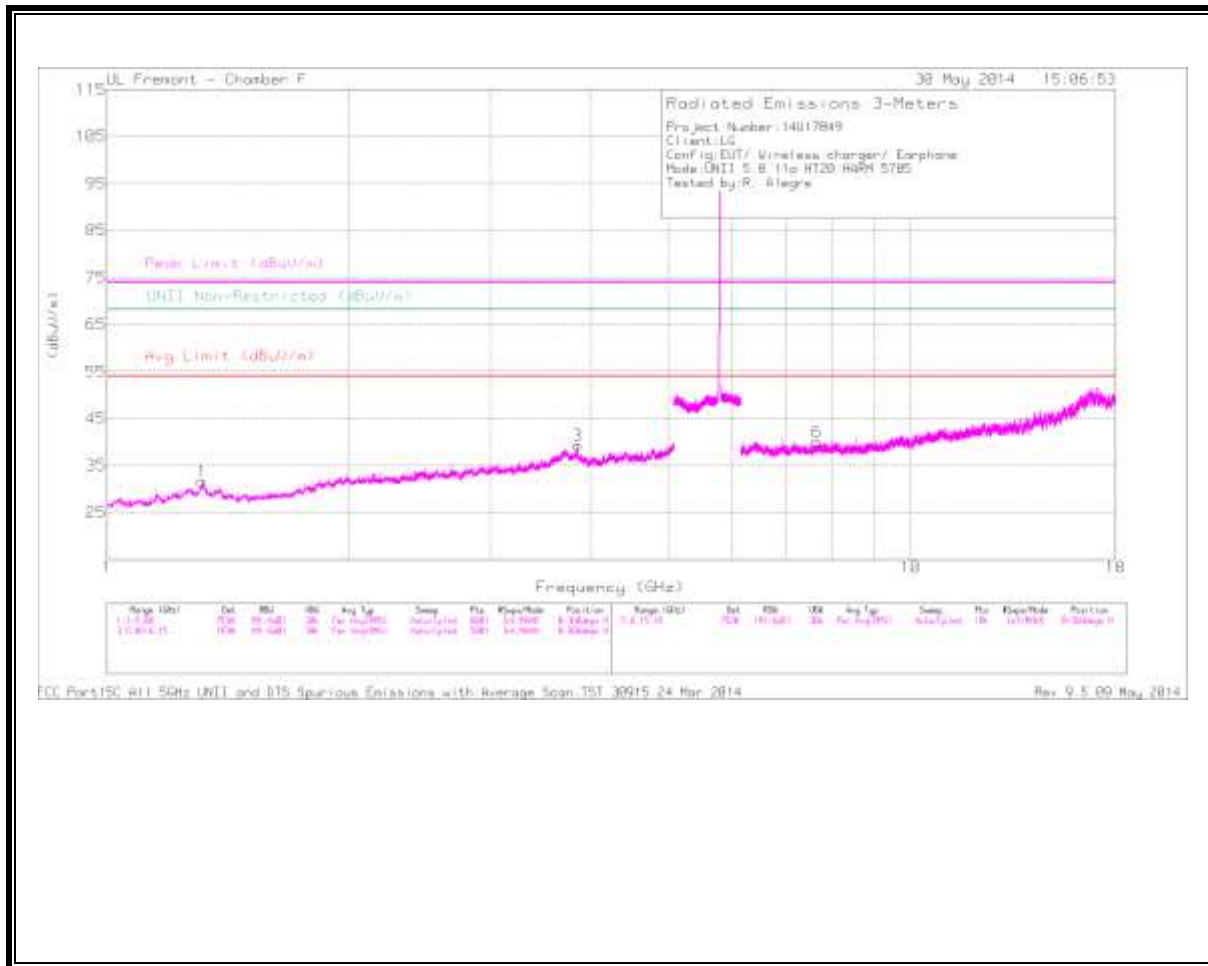
VERTICAL



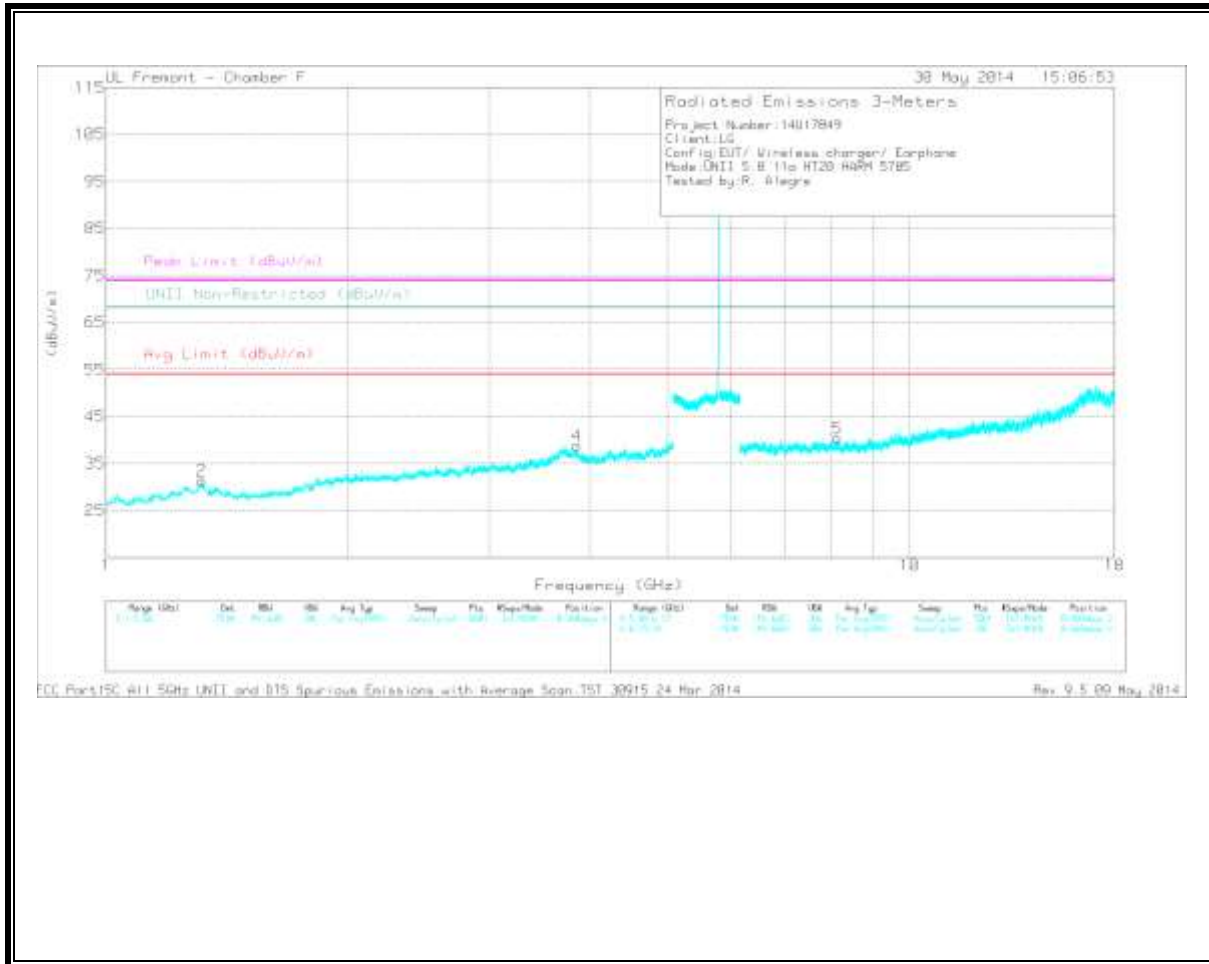
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T120 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70.29	PK	35	-19	11.8	0	-42.49	-17	-25.49	263	366	V
2	5.979	-66.06	PK	35.3	-18.7	11.8	0	-37.66	-27	-10.66	263	366	V

PK - Peak detector

HORIZONTAL



VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.314	33.18	PK	29.9	-31.4	0	31.68	-	-	74	-42.32	-	-	0-360	200	H
3	* 3.857	34.51	PK	34.2	-29.4	0	39.31	-	-	74	-34.69	-	-	0-360	200	H
2	* 1.317	32.84	PK	29.9	-31.4	0	31.34	-	-	74	-42.66	-	-	0-360	101	V
4	* 3.857	34.02	PK	34.2	-29.4	0	38.82	-	-	74	-35.18	-	-	0-360	201	V
6	* 7.651	30.21	PK	35.6	-25.7	0	40.11	-	-	74	-33.89	-	-	0-360	101	H
5	* 8.144	29.63	PK	35.7	-25	0	40.33	-	-	74	-33.67	-	-	0-360	201	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.856	39.96	PK1	34.2	-29.4	0	44.76	-	-	74	-29.24	-	-	360	201	H
* 1.315	41.23	PK1	29.9	-31.4	0	39.73	-	-	74	-34.27	-	-	360	201	H
* 3.856	39.02	PK1	34.2	-29.4	0	43.82	-	-	74	-30.18	-	-	360	202	V
* 1.316	41.3	PK1	29.9	-31.4	0	39.8	-	-	74	-34.2	-	-	360	102	V
* 7.653	37.23	PK1	35.6	-25.7	0	47.13	-	-	74	-26.87	-	-	360	102	H
* 8.143	36.97	PK1	35.7	-25	0	47.67	-	-	74	-26.33	-	-	360	202	V
* 8.143	26.04	AD1	35.7	-25	0	36.74	54	-17.26	-	-	-	-	360	202	V

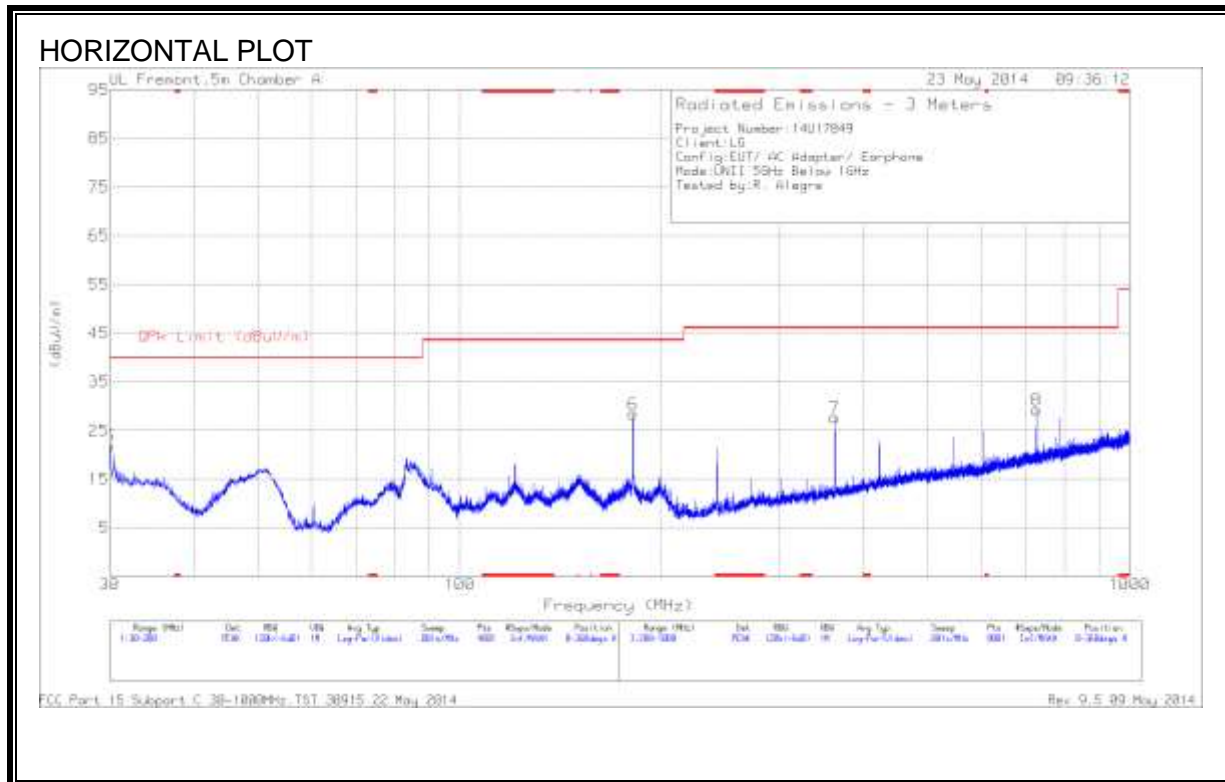
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

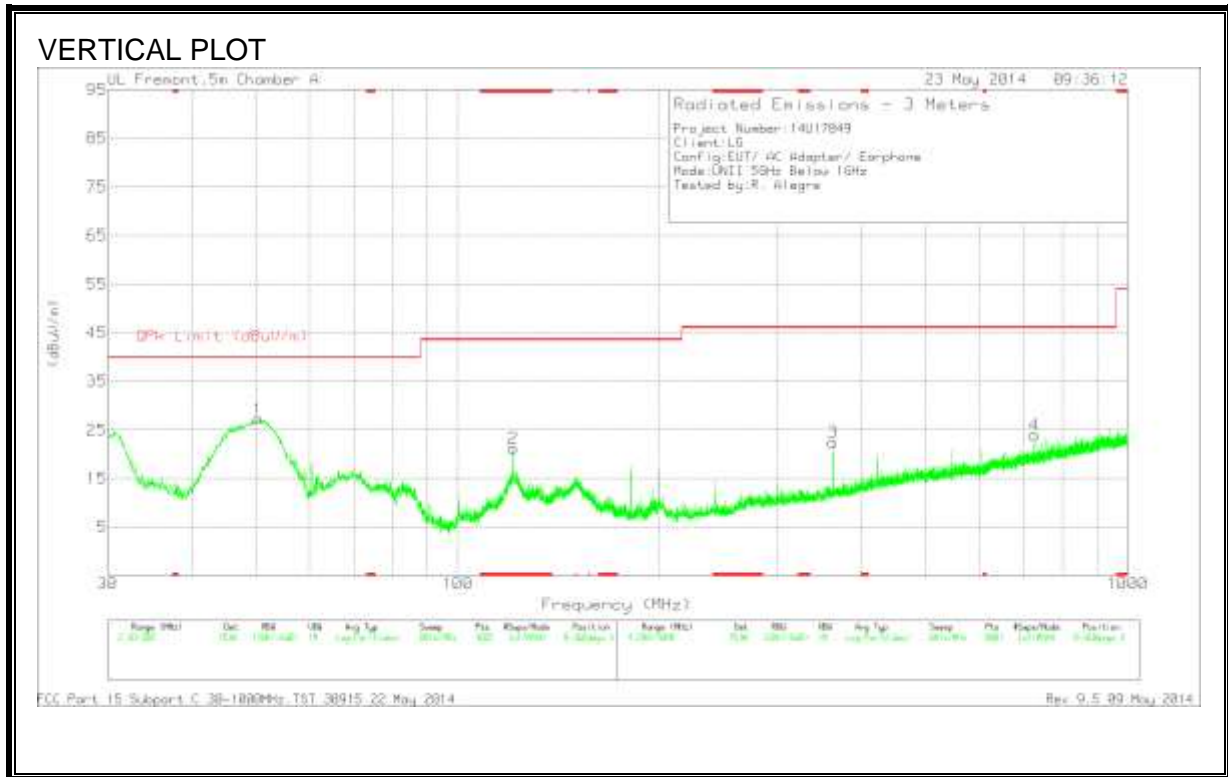
AD1 - KDB789033 Method: AD Primary Power Average

## 11. WORST-CASE BELOW 1 GHz (in the 5.2 GHz Band)

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



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



Worst Case Data

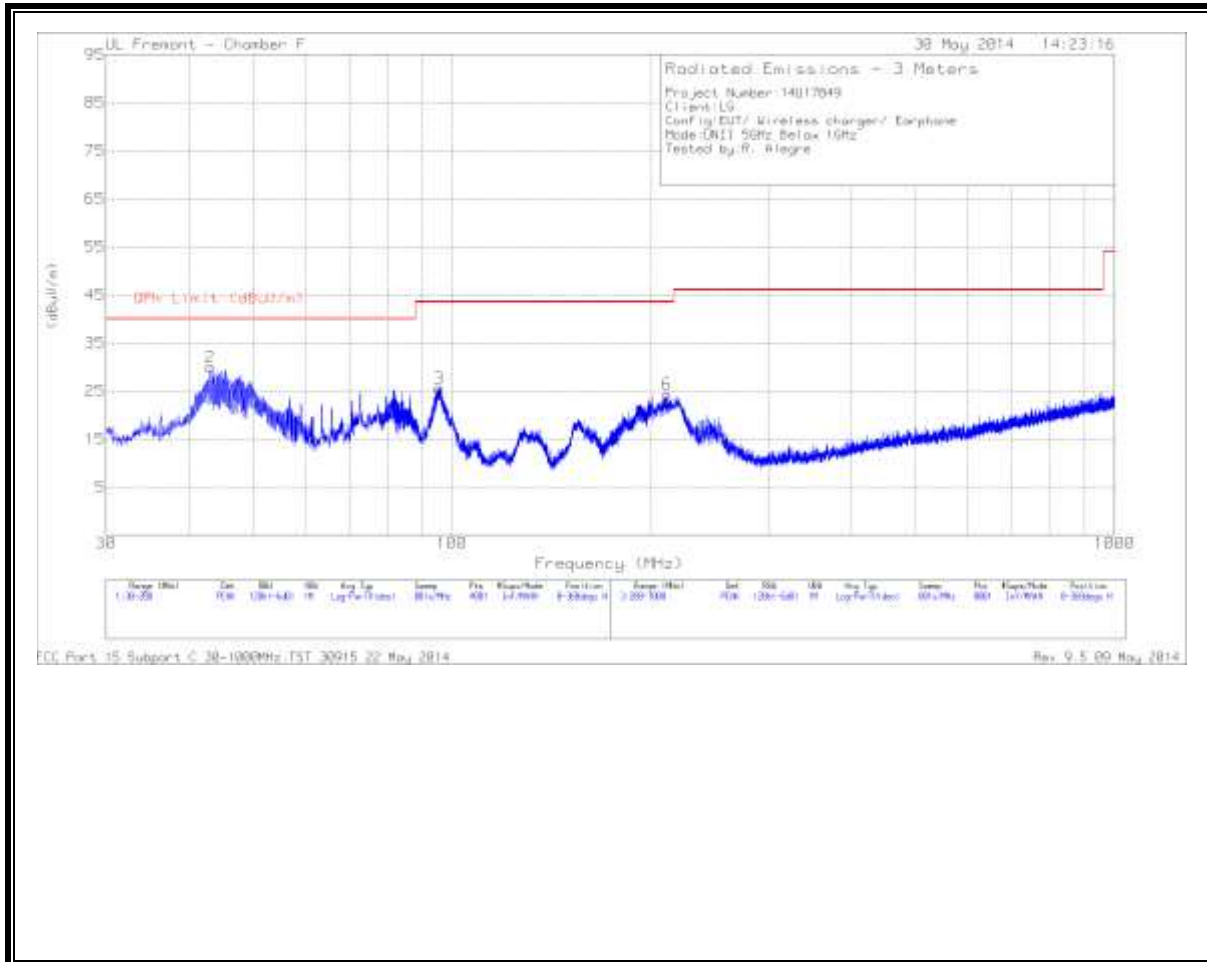
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 120.95	37.78	PK	13.9	-30.4	21.28	43.52	-22.24	0-360	101	V
5	30.0425	31.61	PK	21.5	-31.3	21.81	40	-18.19	0-360	100	H
1	50.315	50.05	PK	7.9	-30.7	27.25	40	-12.75	0-360	101	V
6	181.385	47.12	PK	11.3	-30	28.42	43.52	-15.1	0-360	200	H
7	362.8	42.04	PK	14.8	-29.2	27.64	46.02	-18.38	0-360	101	H
3	362.8	36.94	PK	14.8	-29.2	22.54	46.02	-23.48	0-360	100	V
8	725.6	36.76	PK	20.5	-28	29.26	46.02	-16.76	0-360	101	H
4	725.6	31.48	PK	20.5	-28	23.98	46.02	-22.04	0-360	100	V

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

PK - Peak detector

**WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH WPC BACK COVER AND CHARGER**

HORIZONTAL





VERTICAL



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	43.1325	50.17	PK	11.6	-31.8	29.97	40	-10.03	0-360	401	H
3	95.535	48.46	PK	9	-31.8	25.66	43.52	-17.86	0-360	301	H
1	45.3425	59.76	PK	10.2	-31.5	38.46	40	-1.54	0-360	100	V
4	79.5125	53.3	PK	7.7	-31.5	29.5	40	-10.5	0-360	100	V
6	210.9	44.84	PK	10.4	-30.9	24.34	43.52	-19.18	0-360	100	H
5	211	41.36	PK	10.4	-30.9	20.86	43.52	-22.66	0-360	201	V

PK - Peak detector