



**FCC 47 CFR PART 15 SUBPART E**

**C2PC CERTIFICATION TEST REPORT**

**FOR**

**GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n & NFC**

**MODEL NUMBER: LG-H443, H443, LGH443, LG-H445, LGH445, H445**

**FCC ID: ZNFH443**

**REPORT NUMBER: 15I19922-E5 REVISION A**

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*Prepared for*  
**LG ELECTRONICS MOBILECOMM U.S.A., INC**  
**1000 SYLVAN AVENUE**  
**ENGLEWOOD CLIFFS,**  
**NEW JERSEY, 07632, U.S.A**

*Prepared by*  
**UL VERIFICATION SERVICES INC.**  
**47173 BENICIA STREET**  
**FREMONT, CA 94538, U.S.A.**  
**TEL: (510) 771-1000**  
**FAX: (510) 661-0888**



**NVLAP LAB CODE 200065-0**

Revision History

Rev.	Date	Revisions	Revised By
--	02/20/15	Initial Issue	D. Coronia
A	3/18/15	Updated antenna information	P. Zhang

## TABLE OF CONTENTS

<b>1. ATTESTATION OF TEST RESULTS .....</b>	<b>5</b>
<b>2. TEST METHODOLOGY .....</b>	<b>6</b>
<b>3. FACILITIES AND ACCREDITATION .....</b>	<b>6</b>
<b>4. CALIBRATION AND UNCERTAINTY .....</b>	<b>6</b>
4.1. <i>MEASURING INSTRUMENT CALIBRATION .....</i>	<i>6</i>
4.2. <i>SAMPLE CALCULATION .....</i>	<i>6</i>
4.3. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>8</b>
5.1. <i>DESCRIPTION OF EUT .....</i>	<i>8</i>
5.2. <i>MAXIMUM OUTPUT POWER.....</i>	<i>8</i>
5.3. <i>DESCRIPTION OF AVAILABLE ANTENNAS .....</i>	<i>8</i>
5.4. <i>WORST-CASE CONFIGURATION AND MODE.....</i>	<i>9</i>
5.5. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>10</i>
<b>6. TEST AND MEASUREMENT EQUIPMENT .....</b>	<b>12</b>
<b>7. SUMMARY TABLE .....</b>	<b>13</b>
<b>8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS .....</b>	<b>14</b>
<b>9. MEASUREMENT METHOD.....</b>	<b>16</b>
<b>10. TRANSMITTER ABOVE 1 GHz.....</b>	<b>17</b>
10.1. <i>5.2 GHz.....</i>	<i>18</i>
10.1.1. <i>TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND .....</i>	<i>18</i>
10.1.2. <i>TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND.....</i>	<i>29</i>
10.1.3. <i>TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND.....</i>	<i>40</i>
10.2. <i>5.3 GHz.....</i>	<i>48</i>
10.2.1. <i>TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND .....</i>	<i>48</i>
10.2.2. <i>TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND.....</i>	<i>59</i>
10.2.3. <i>TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND.....</i>	<i>70</i>
10.3. <i>5.5-5.6 GHz.....</i>	<i>78</i>
10.3.1. <i>TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND .....</i>	<i>78</i>
10.3.2. <i>TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND.....</i>	<i>91</i>
10.3.3. <i>TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND.....</i>	<i>104</i>
10.4. <i>5.8 GHz.....</i>	<i>117</i>

10.4.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND ..... 117  
10.4.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND..... 130  
10.4.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND..... 143

**11. WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band)..... 153**

**12. SETUP PHOTOS..... 156**

# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** LG ELECTRONICS MOBILECOMM U.S.A., INC  
**EUT DESCRIPTION:** GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n & NFC  
**MODEL NUMBER:** LG-H443, H443, LGH443, LG-H445, LGH445, H445  
**SERIAL NUMBER:** 000787-3 (Radiated)  
**DATE TESTED:** FEBRUARY 6-9, 2015

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.

Approved & Released For  
UL Verification Services Inc. By:



DAN CORONIA  
CONSUMER TECHNOLOGY DIVISION  
WISE PROJECT LEAD  
UL VERIFICATION SERVICES INC

Tested By:



JAMES JACKSON  
CONSUMER TECHNOLOGY DIVISION  
WISE LAB TECHNICIAN  
UL VERIFICATION SERVICES INC

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, and ANSI C63.10-2009. DFS portion of FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, FCC KDB 789033, KDB 905462 D02 and D03, ANSI C63.10-2009

## 3. FACILITIES AND ACCREDITATION

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

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

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/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n & NFC.

### **5.2. MAXIMUM OUTPUT POWER**

The transmitter has a maximum conducted output power as follows:  
See original report for details.

### **5.3. DESCRIPTION OF AVAILABLE ANTENNAS**

The radio utilizes an FPCB antenna, with a maximum gain of -0.9 dBi.



## 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

## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	N/A	N/A	N/A
Earphone	LG	N/A	N/A	N/A

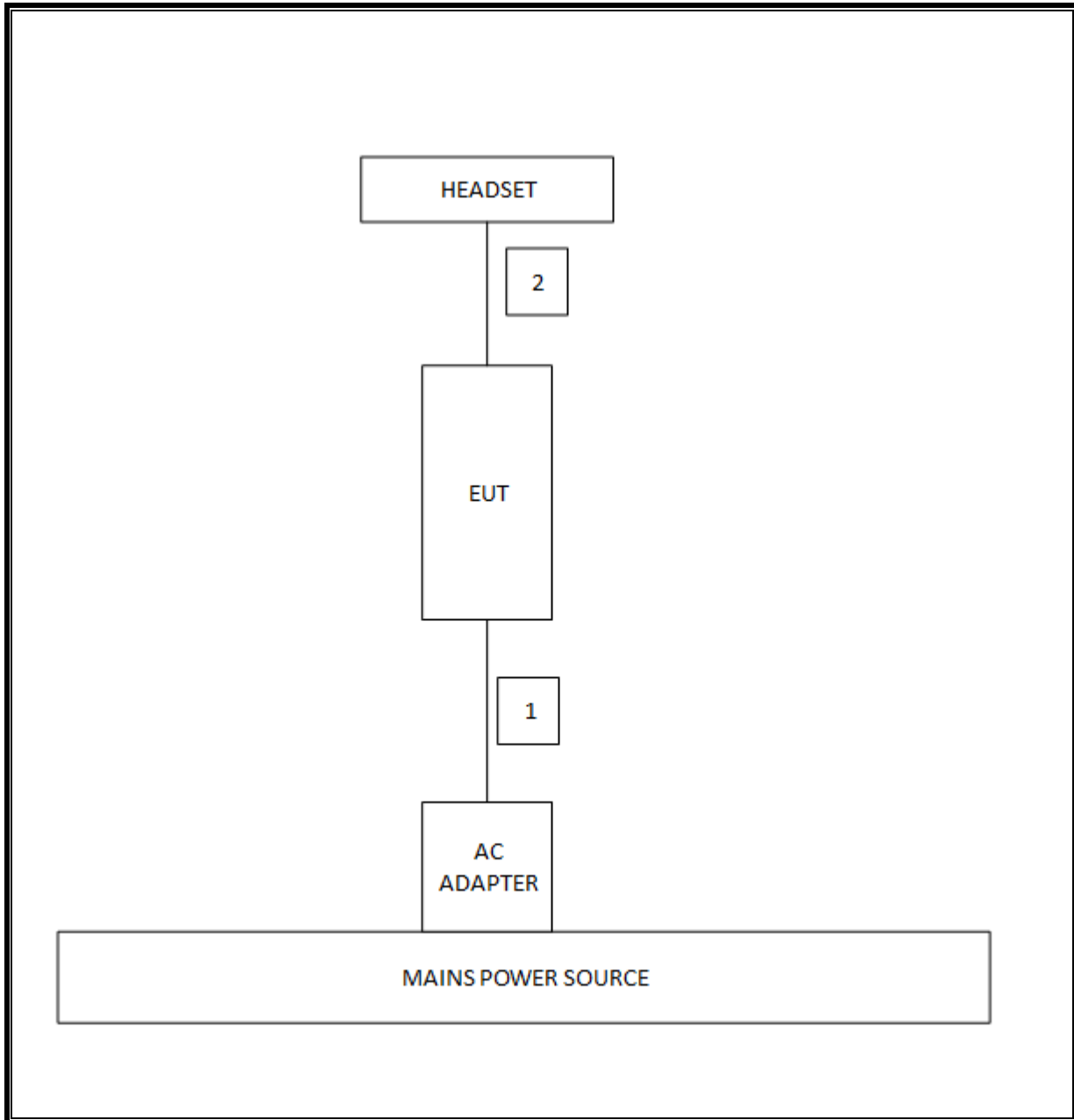
### I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	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	12/20/15
Spectrum Analyzer,9KHz-40GHz	HP	8564E	C00986	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/15
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn,18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/15
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/15
RF Preamplicifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/15
RF Preamplicifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
RF Preamplicifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/15
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR
RF Preamplicifier, 1GHz - 40GHz	Miteq	NSP4000-SP2	C00990	08/20/15
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

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Version 9.5, 07/22/14
Conducted Software	UL	UL EMC	Version 9.5, 05/17/14
CLT Software	UL	UL RF	Version 1.0, 02/02/15
Antenna Port Software	UL	UL RF	Version 2.1.1.1, 1/20/15

## 7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.407 (a)	Occupied Band width (26dB)	N/A	Conducted	Pass	See Original
15.407	6dB Band width (5.8Ghz)	500KHz		Pass	See Original
15.407 (a)(2)	TX Cond. Power 5.15-2.25, 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 (5.2,5.3,5.5GHz)	<11dBm		Pass	See Original
15.407 (a)(5)	PSD (5.8GHz)	30dBm per 500kHz			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	47.56dBuV/m
15.407 (h)(2)	Dynamic Frequency Selection	N/A	Radiated / Condcuted	Pass	See Original

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

### **LIMITS**

None; for reporting purposes only.

### **PROCEDURE**

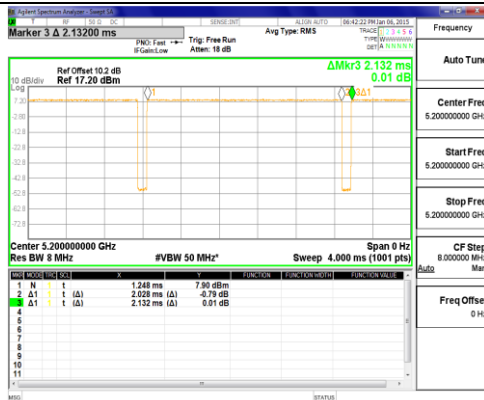
KDB 789033 Zero-Span Spectrum Analyzer Method.

### **RESULTS**

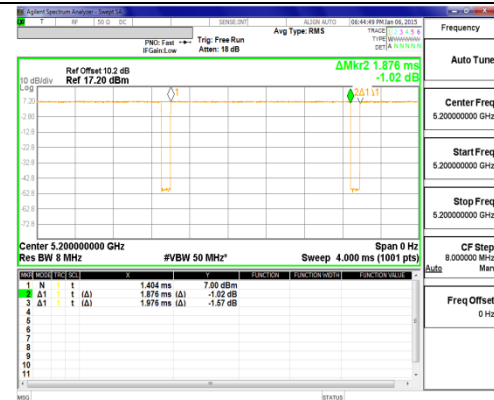
**ON TIME AND DUTY CYCLE RESULT AND PLOTS**

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.03	2.13	0.951	95.1%	0.22	0.493
802.11n HT20	1.88	2	0.949	94.9%	0.23	0.533
802.11n HT40	0.92	1	0.902	90.2%	0.45	1.092

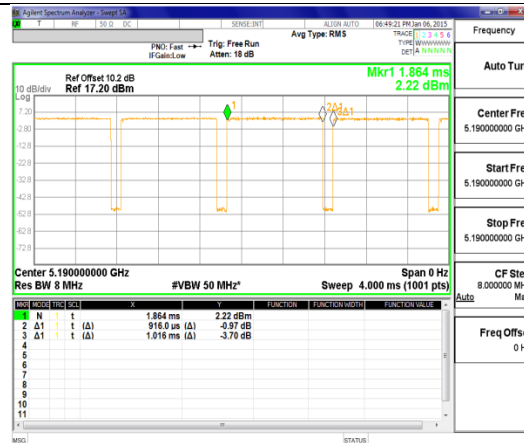
**DUTY CYCLE 802.11a MODE**



**DUTY CYCLE 802.11n HT20 MODE**



**DUTY CYCLE 802.11n HT40 MODE**



NOTE:

## 9. MEASUREMENT METHOD

789033 D02 General UNII Test Procedures New Rules v01

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.

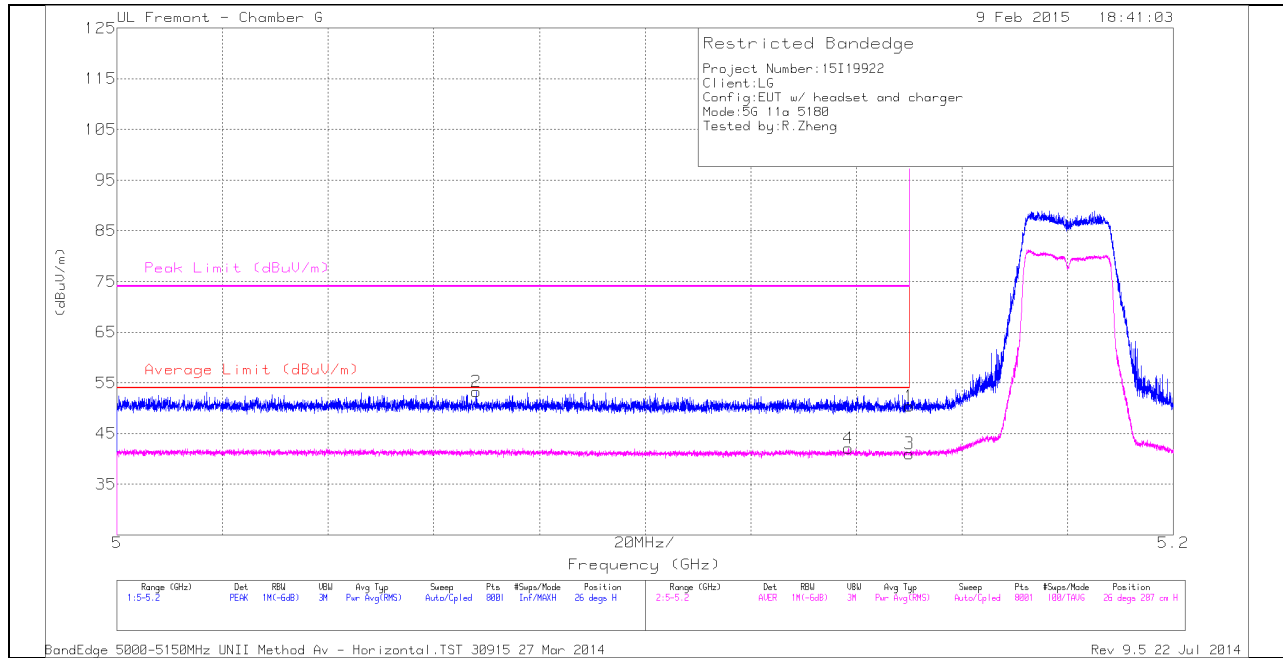
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

##### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

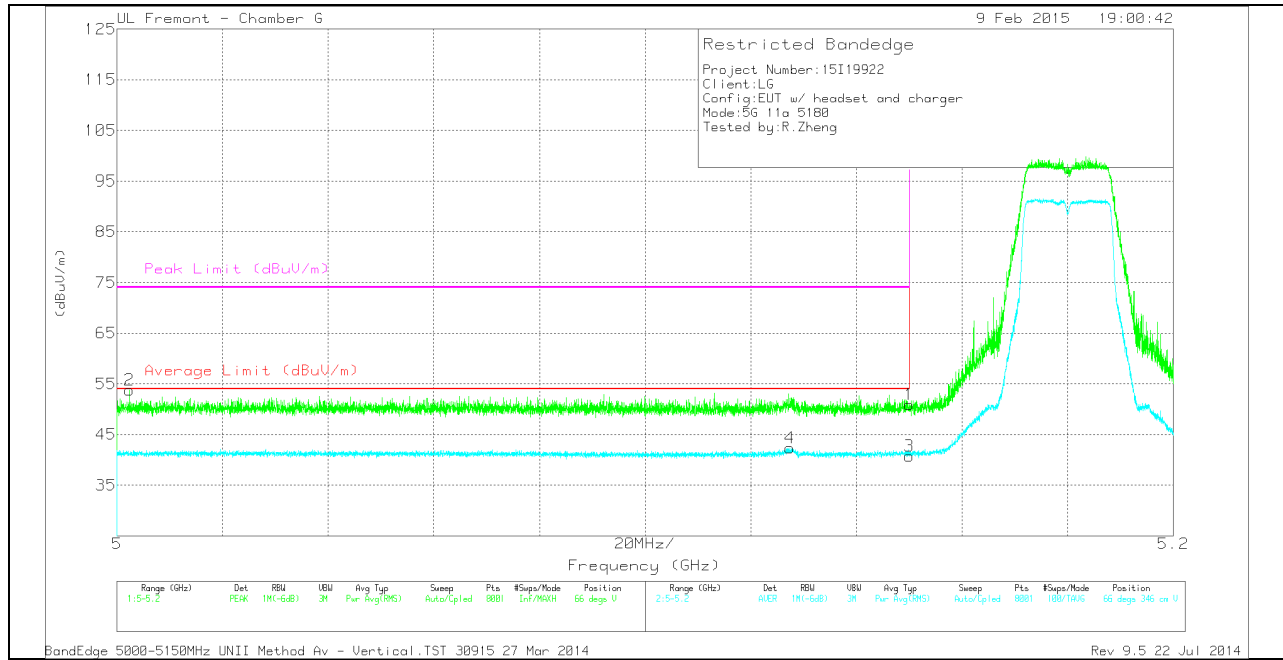
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.068	42.74	PK	34.2	-23.7	0	53.24	-	-	74	-20.76	26	287	H
4	* 5.138	31.15	RMS	34.3	-23.6	.22	42.07	54	-11.93	-	-	26	287	H
1	* 5.15	39.72	PK	34.3	-23.6	0	50.42	-	-	74	-23.58	26	287	H
3	* 5.15	30.12	RMS	34.3	-23.6	.22	41.04	54	-12.96	-	-	26	287	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

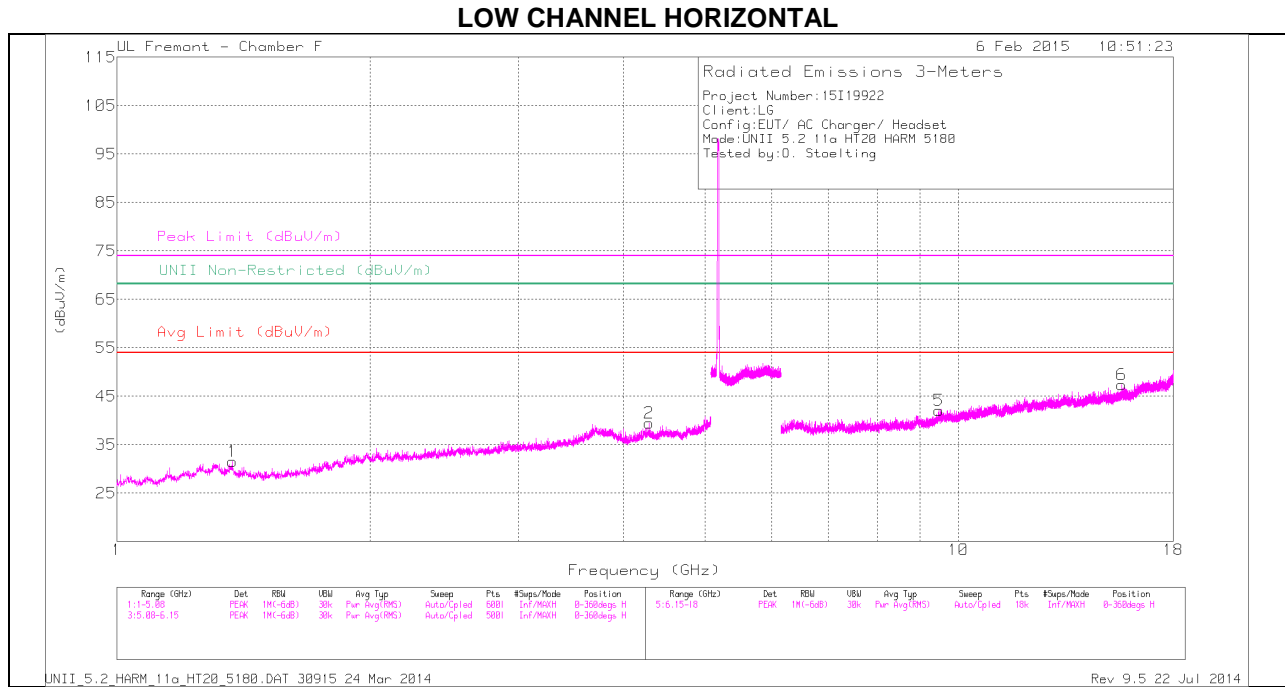
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.002	43.34	PK	34.1	-23.7	0	53.74	-	-	74	-20.26	66	346	V
4	* 5.127	31.42	RMS	34.3	-23.6	.22	42.34	54	-11.66	-	-	66	346	V
1	* 5.15	40.22	PK	34.3	-23.6	0	50.92	-	-	74	-23.08	66	346	V
3	* 5.15	29.81	RMS	34.3	-23.6	.22	40.73	54	-13.27	-	-	66	346	V

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

PK - Peak detector

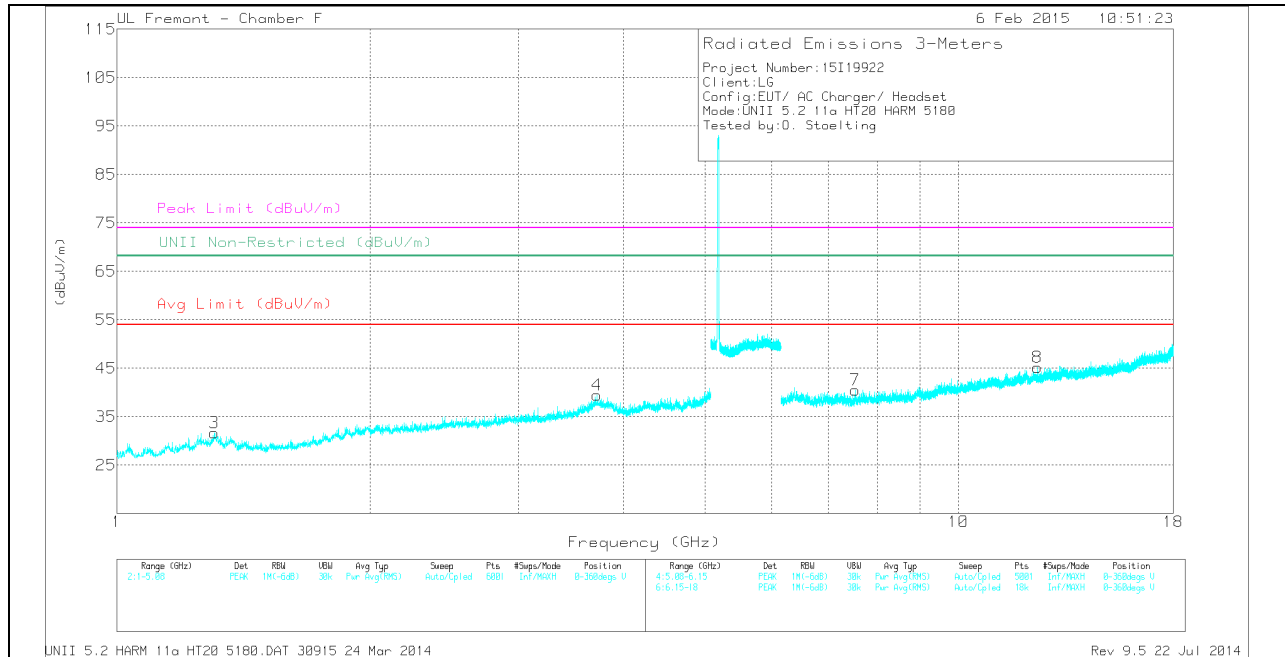
RMS - RMS detection

### HARMONICS AND SPURIOUS EMISSIONS



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 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**

TRACE MARKERS

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	* 1.371	33.64	PK	29.5	-31.6	0	31.54	-	-	74	-42.46	-	-	0-360	201	H
2	* 4.286	32.84	PK	33.7	-27.1	0	39.44	-	-	74	-34.56	-	-	0-360	201	H
3	* 1.306	33.14	PK	30	-31.5	0	31.64	-	-	74	-42.36	-	-	0-360	101	V
4	* 3.721	33.65	PK	34.8	-29	0	39.45	-	-	74	-34.55	-	-	0-360	101	V
5	* 9.471	26.83	PK	36.8	-21.6	0	42.03	-	-	74	-31.97	-	-	0-360	100	H
6	* 15.627	29.46	PK	40.3	-22.4	0	47.36	-	-	74	-26.64	-	-	0-360	201	H
7	* 7.535	30.04	PK	35.6	-25.1	0	40.54	-	-	74	-33.46	-	-	0-360	101	V
8	* 12.416	28.62	PK	38.9	-22.3	0	45.22	-	-	74	-28.78	-	-	0-360	201	V

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

PK - Peak detector

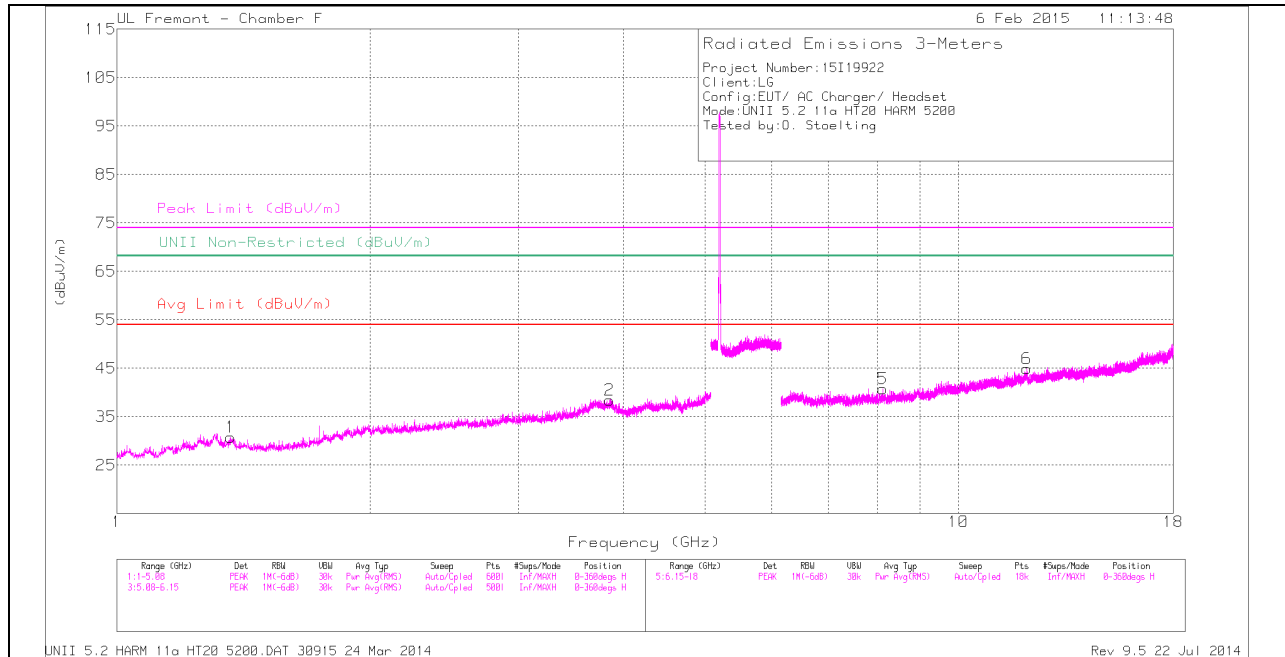
RADIATED EMISSIONS

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
* 15.628	35.27	PK1	40.3	-22.4	0	53.17	-	-	74	-20.83	-	-	232	140	H
* 15.628	23.88	AD1	40.3	-22.4	.22	42	54	-12	-	-	-	-	232	140	H

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

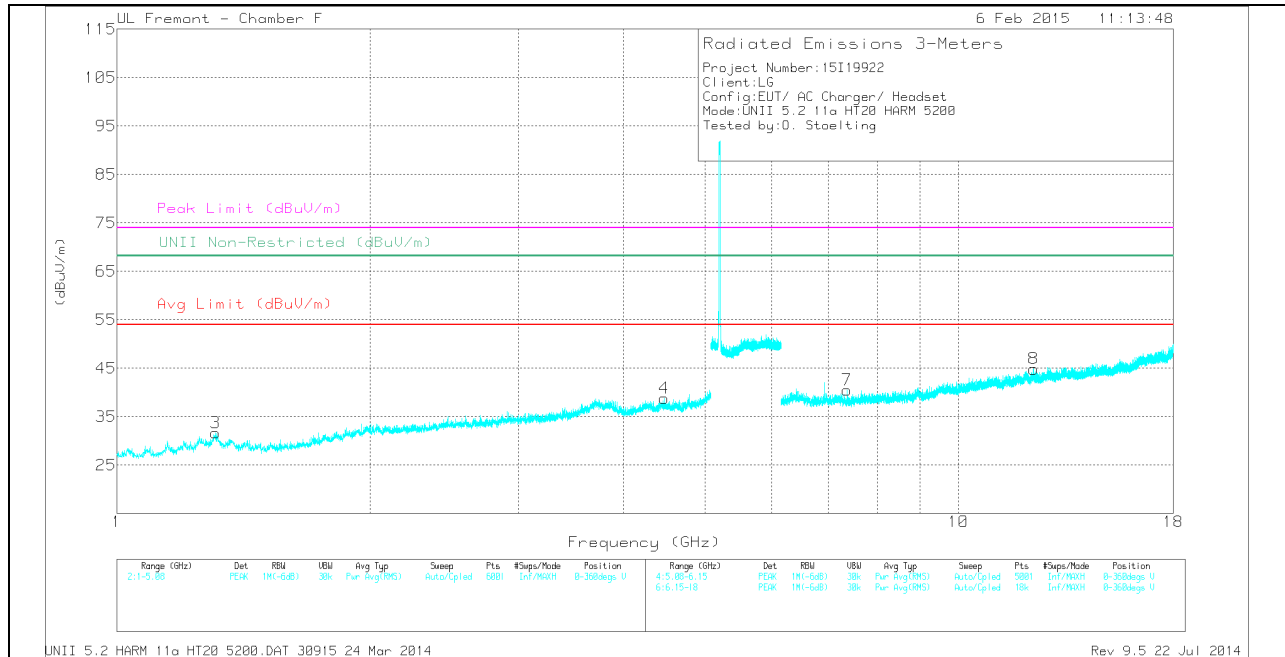
PK - Peak detector

**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.

**MID CHANNEL 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**

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/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	* 1.366	32.92	PK	29.5	-31.6	0	30.82	-	-	74	-43.18	-	-	0-360	100	H
2	* 3.85	33.2	PK	34.2	-29	0	38.4	-	-	74	-35.6	-	-	0-360	201	H
3	* 1.309	33.14	PK	30	-31.5	0	31.64	-	-	74	-42.36	-	-	0-360	201	V
4	4.469	31.83	PK	33.9	-26.9	0	38.83	-	-	-	-	68.2	-29.37	0-360	101	V
5	* 8.128	29.88	PK	35.7	-24.8	0	40.78	-	-	74	-33.22	-	-	0-360	201	H
6	* 12.052	27.47	PK	39	-21.6	0	44.87	-	-	74	-29.13	-	-	0-360	101	H
7	* 7.378	31.11	PK	35.6	-26.2	0	40.51	-	-	74	-33.49	-	-	0-360	101	V
8	* 12.283	27.66	PK	38.9	-21.7	0	44.86	-	-	74	-29.14	-	-	0-360	201	V

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

PK - Peak detector

RADIATED EMISSIONS

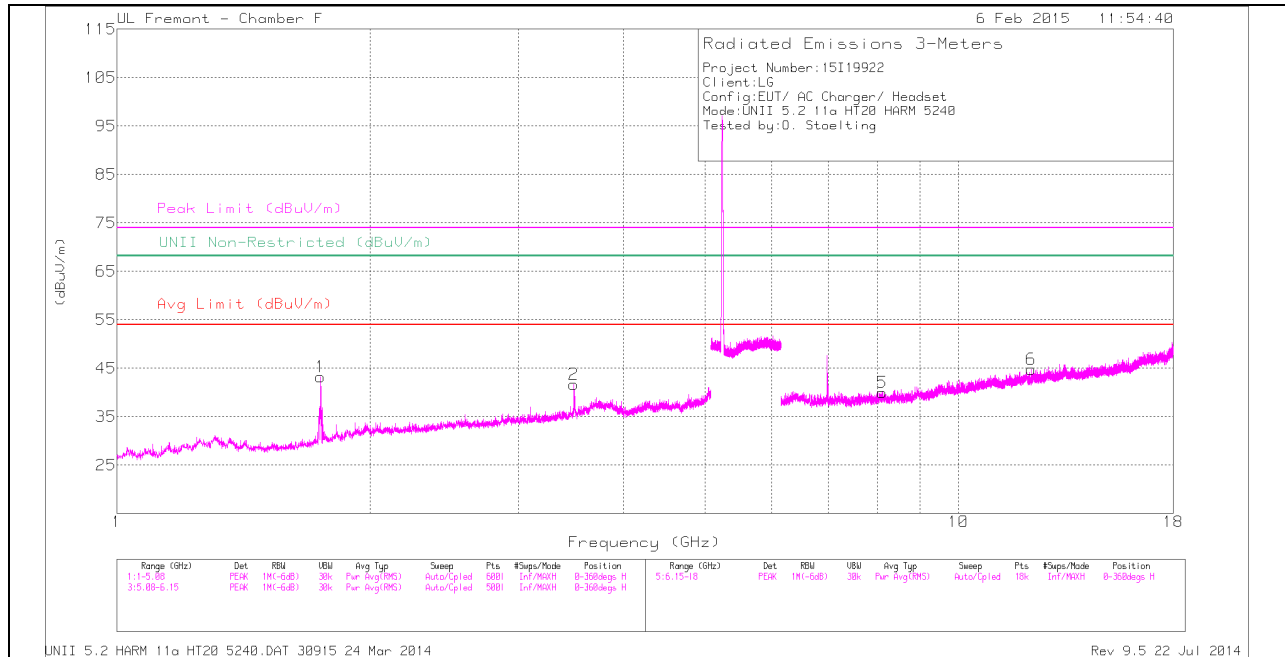
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.05	33.86	PK1	39	-21.6	0	51.26	-	-	74	-22.74	-	-	35	354	H
* 12.054	22.87	AD1	39	-21.7	.22	40.39	54	-13.61	-	-	-	-	35	354	H

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

PK1 - KDB789033 Method: Peak

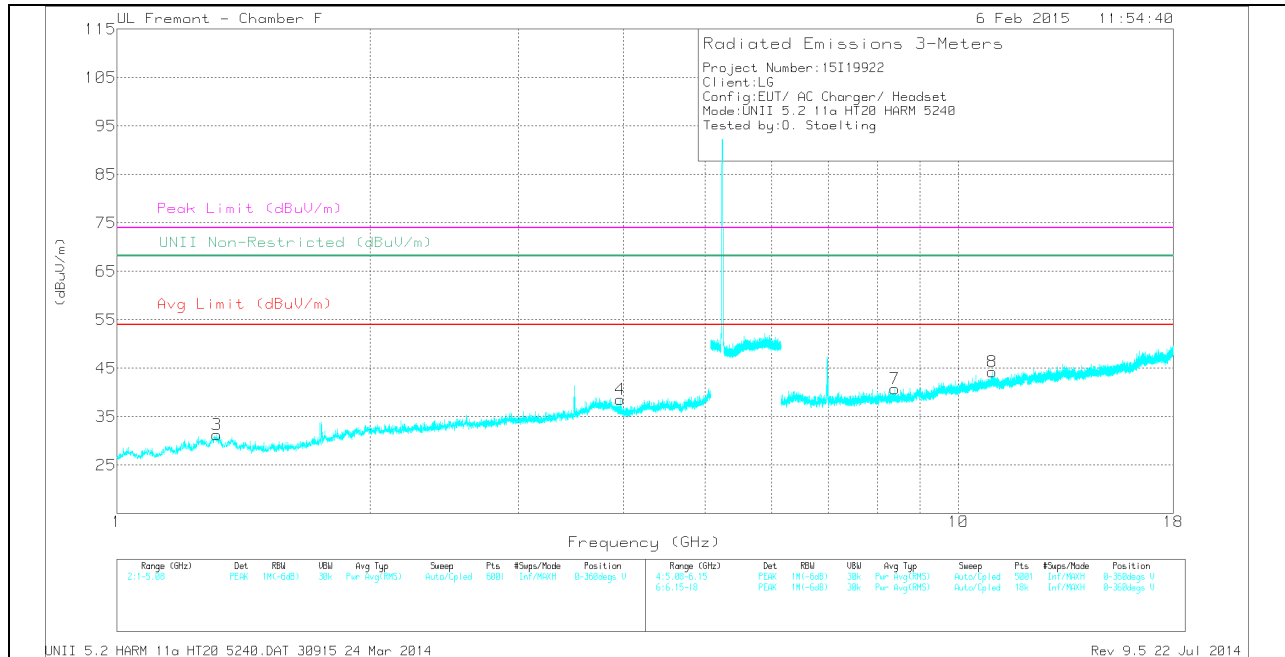
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**HIGH CHANNEL 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**

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.744	44.8	PK	29.7	-31.3	0	43.2	-	-	-	-	68.2	-25	0-360	201	H
2	3.492	36.67	PK	34.3	-29.3	0	41.67	-	-	-	-	68.2	-26.53	0-360	100	H
3	* 1.315	32.81	PK	29.9	-31.4	0	31.31	-	-	74	-42.69	-	-	0-360	101	V
4	* 3.965	33.59	PK	33.8	-28.8	0	38.59	-	-	74	-35.41	-	-	0-360	101	V
5	* 8.115	29.12	PK	35.7	-24.8	0	40.02	-	-	74	-33.98	-	-	0-360	201	H
6	* 12.208	28.45	PK	38.9	-22.6	0	44.75	-	-	74	-29.25	-	-	0-360	201	H
7	* 8.405	28.59	PK	35.8	-23.6	0	40.79	-	-	74	-33.21	-	-	0-360	201	V
8	* 10.975	28.04	PK	38.1	-21.9	0	44.24	-	-	74	-29.76	-	-	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/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.208	35.16	PK1	38.9	-22.6	0	51.46	-	-	74	-22.54	-	-	271	114	H
* 12.21	23.36	AD1	38.9	-22.6	.22	39.88	54	-14.12	-	-	-	-	271	114	H

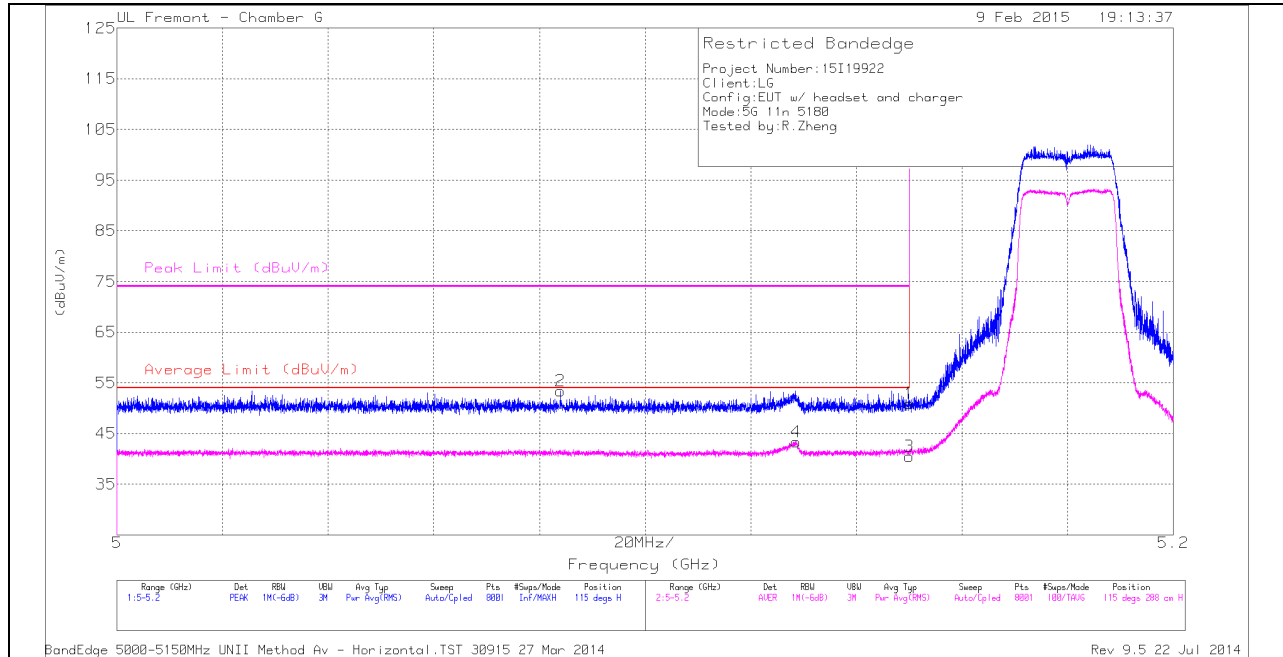
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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 PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

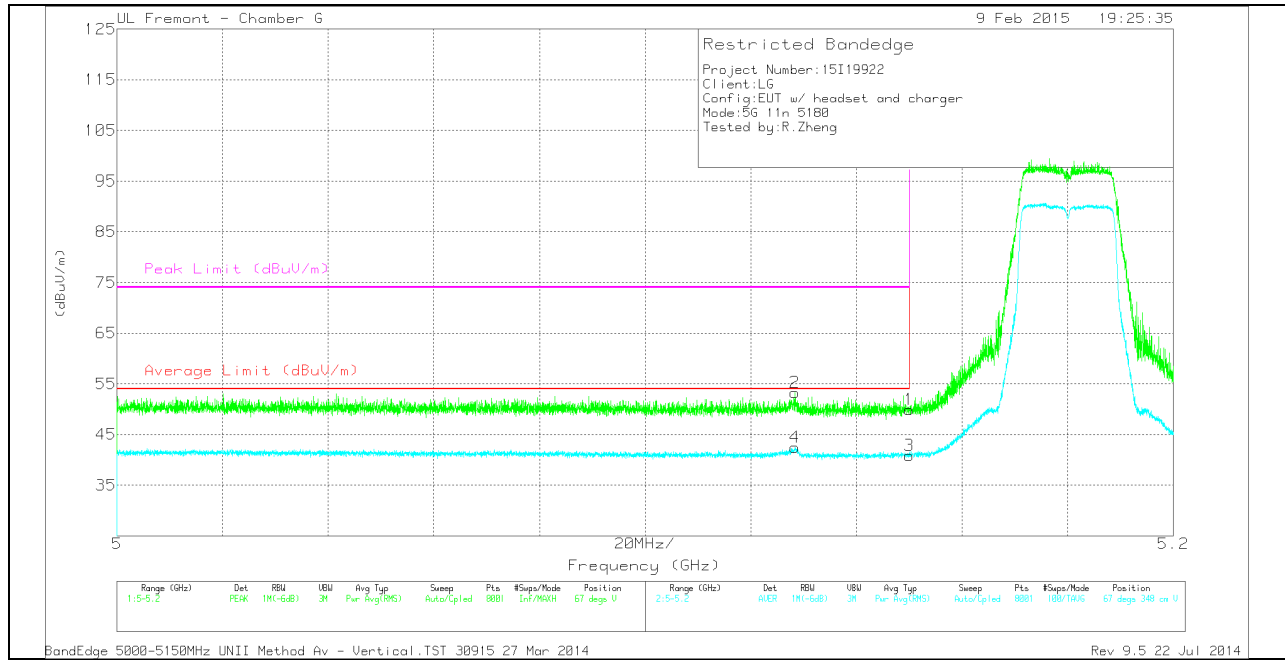
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.084	42.95	PK	34.2	-23.7	0	53.45	-	-	74	-20.55	115	288	H
4	* 5.129	32.59	RMS	34.3	-23.6	.23	43.52	54	-10.48	-	-	115	288	H
1	* 5.15	40.27	PK	34.3	-23.6	0	50.97	-	-	74	-23.03	115	288	H
3	* 5.15	29.78	RMS	34.3	-23.6	.23	40.71	54	-13.29	-	-	115	288	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

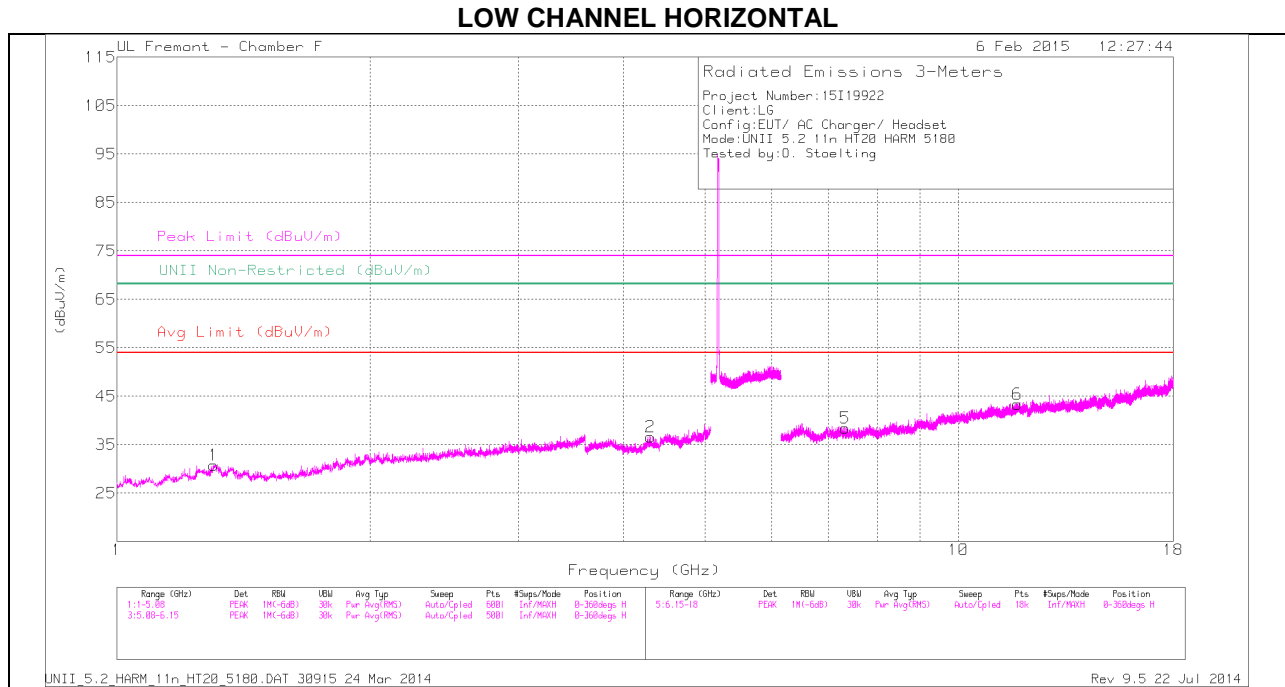
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.128	42.62	PK	34.3	-23.6	0	53.32	-	-	74	-20.68	67	348	V
4	* 5.128	31.5	RMS	34.3	-23.6	.23	42.43	54	-11.57	-	-	67	348	V
1	* 5.15	39.18	PK	34.3	-23.6	0	49.88	-	-	74	-24.12	67	348	V
3	* 5.15	29.87	RMS	34.3	-23.6	.23	40.8	54	-13.2	-	-	67	348	V

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

PK - Peak detector

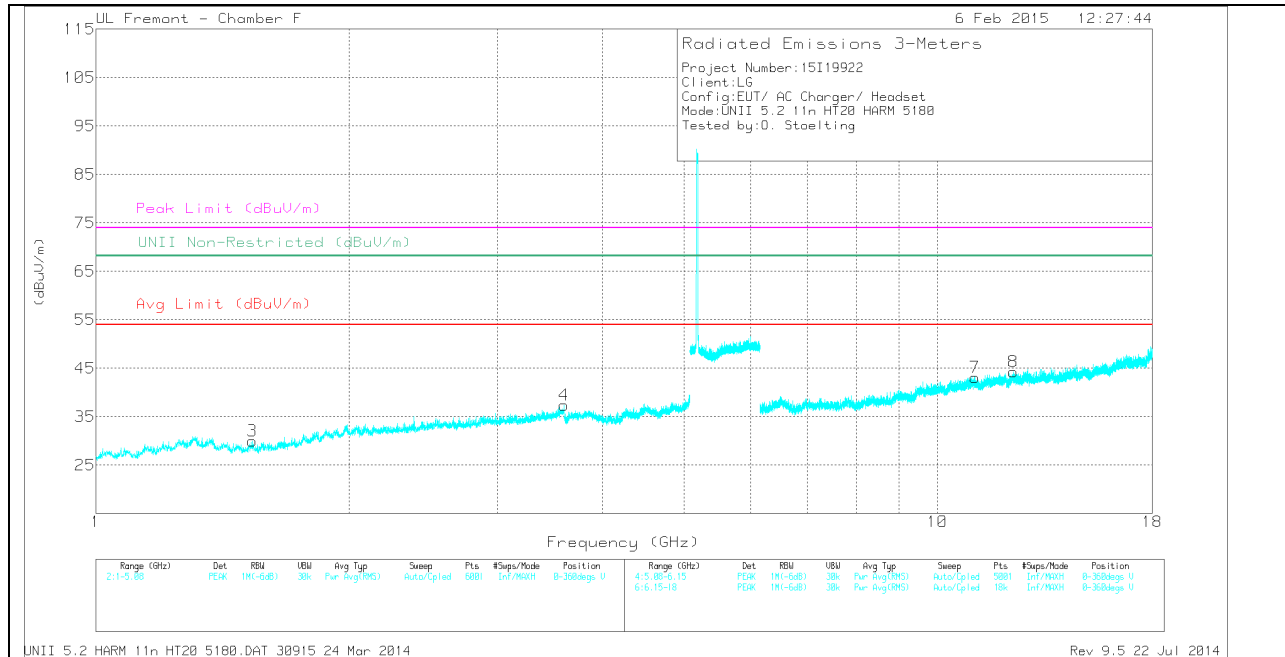
RMS - RMS detection

### HARMONICS AND SPURIOUS EMISSIONS



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 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**

TRACE MARKERS

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	* 1.302	32.39	PK	30	-31.6	0	30.79	-	-	74	-43.21	-	-	0-360	201	H
2	* 4.302	30.51	PK	33.7	-27.6	0	36.61	-	-	74	-37.39	-	-	0-360	100	H
3	* 1.534	33.04	PK	28.4	-31.4	0	30.04	-	-	74	-43.96	-	-	0-360	101	V
4	* 3.598	31.64	PK	34.9	-29.2	0	37.34	-	-	74	-36.66	-	-	0-360	101	V
5	* 7.333	28.65	PK	35.6	-25.8	0	38.45	-	-	74	-35.55	-	-	0-360	101	H
6	* 11.757	26.77	PK	38.7	-22.1	0	43.37	-	-	74	-30.63	-	-	0-360	101	H
7	* 11.087	27.14	PK	38.1	-22.1	0	43.14	-	-	74	-30.86	-	-	0-360	201	V
8	* 12.298	27.37	PK	38.9	-22	0	44.27	-	-	74	-29.73	-	-	0-360	101	V

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

PK - Peak detector

RADIATED EMISSIONS

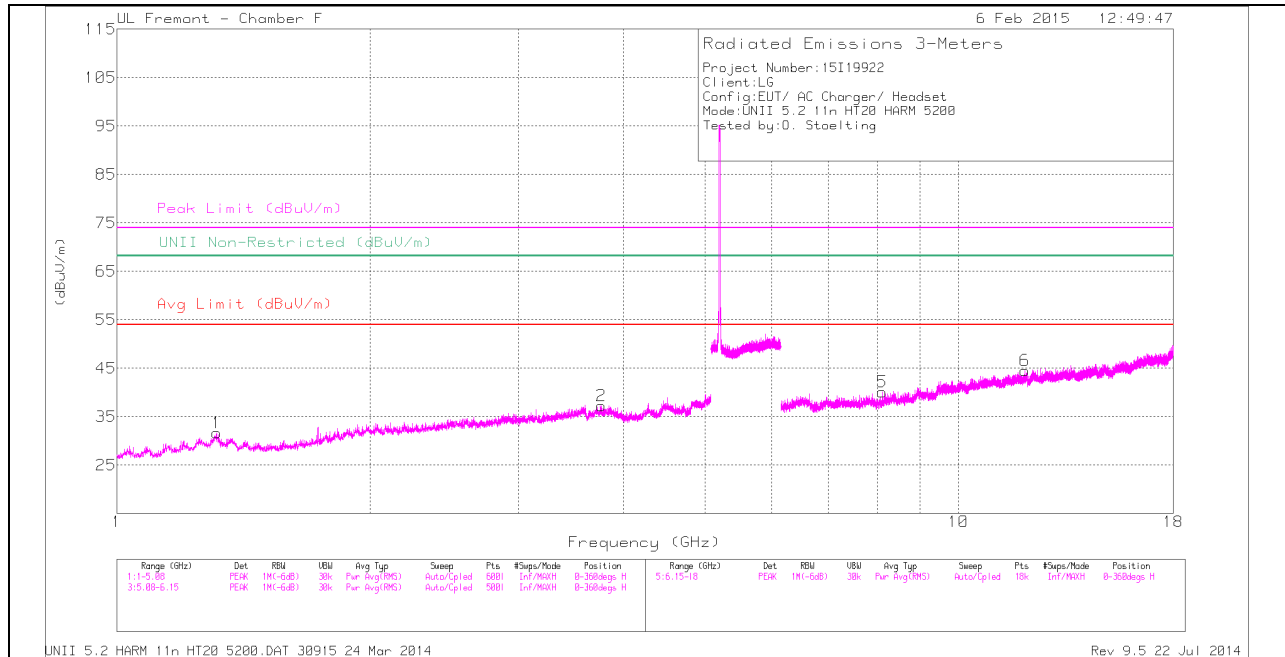
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.297	35.65	PK1	38.9	-21.9	0	52.65	-	-	74	-21.35	-	-	202	386	V
* 12.299	23.96	AD1	38.9	-22	.24	41.1	54	-12.9	-	-	-	-	202	386	V

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

PK1 - KDB789033 Method: Peak

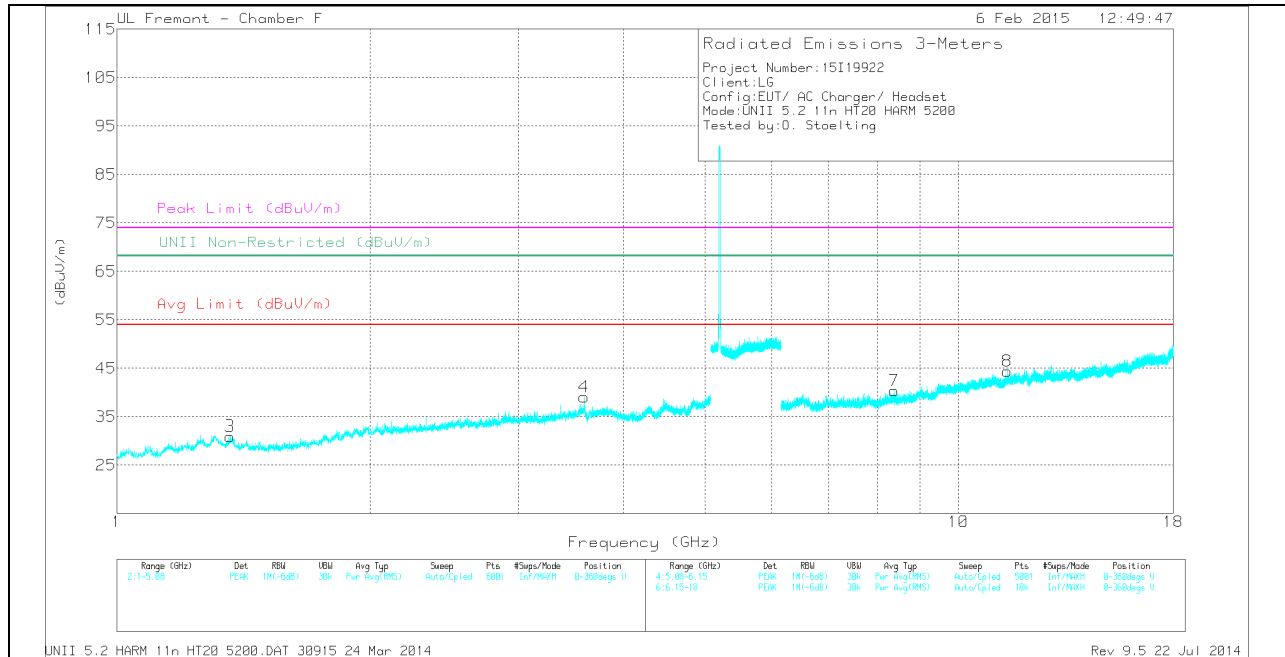
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**MID CHANNEL 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**

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/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	33.13	PK	29.9	-31.4	0	31.63	-	-	74	-42.37	-	-	0-360	100	H
2	* 3.762	32.07	PK	34.6	-29.4	0	37.27	-	-	74	-36.73	-	-	0-360	201	H
3	* 1.362	32.96	PK	29.5	-31.5	0	30.96	-	-	74	-43.04	-	-	0-360	101	V
4	* 3.59	33.22	PK	34.9	-29.1	0	39.02	-	-	74	-34.98	-	-	0-360	201	V
5	* 8.112	29.32	PK	35.7	-24.9	0	40.12	-	-	74	-33.88	-	-	0-360	201	H
6	* 11.987	27.49	PK	39	-21.9	0	44.59	-	-	74	-29.41	-	-	0-360	201	H
7	* 8.39	28.72	PK	35.8	-24.1	0	40.42	-	-	74	-33.58	-	-	0-360	201	V
8	* 11.432	27.84	PK	38.3	-21.7	0	44.44	-	-	74	-29.56	-	-	0-360	201	V

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

PK - Peak detector

RADIATED EMISSIONS

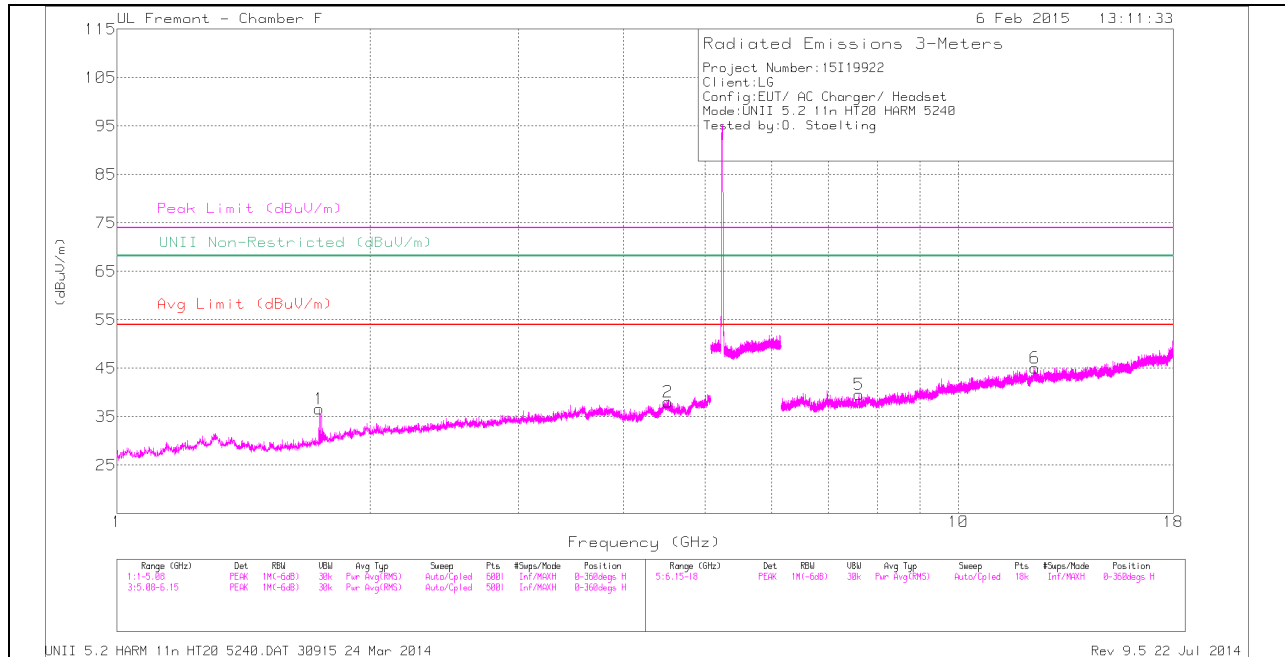
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.987	35.17	PK1	39	-21.9	0	52.27	-	-	74	-21.73	-	-	36	117	H
* 11.986	23.8	AD1	39	-21.9	.24	41.14	54	-12.86	-	-	-	-	36	117	H

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

PK1 - KDB789033 Method: Peak

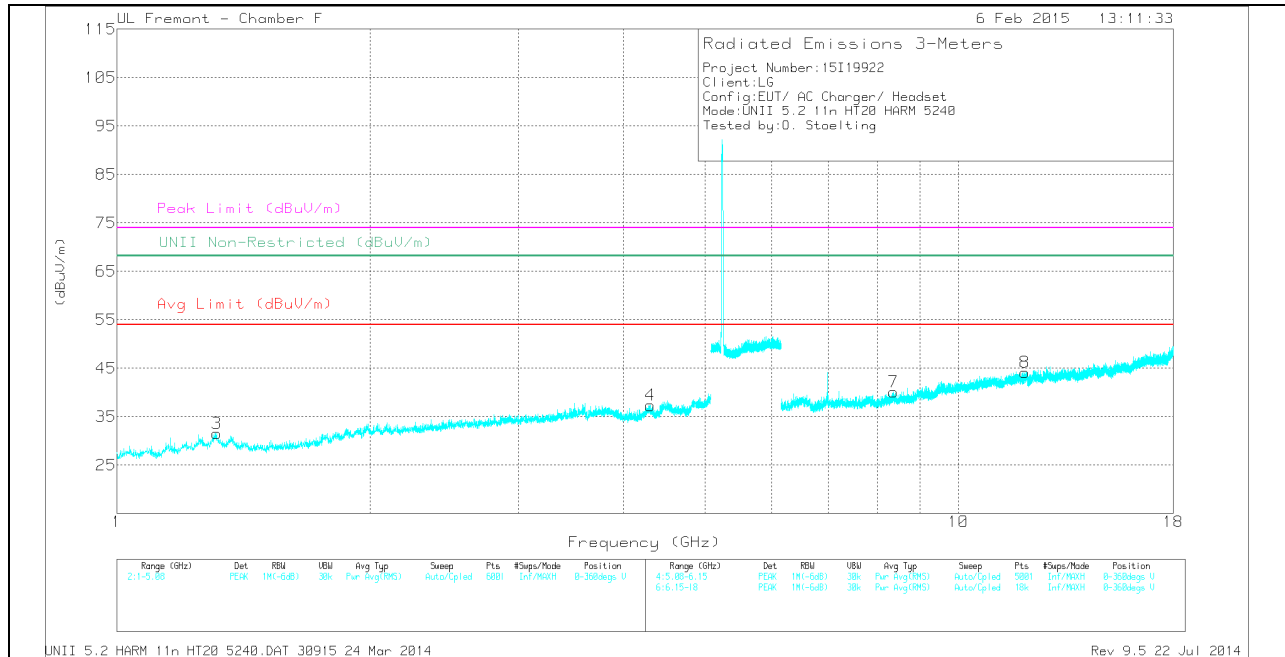
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**HIGH CHANNEL 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**

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.738	38.37	PK	29.6	-31.3	0	36.67	-	-	-	-	68.2	-31.53	0-360	101	H
2	* 4.513	31.76	PK	34	-27.7	0	38.06	-	-	74	-35.94	-	-	0-360	201	H
3	* 1.314	33.1	PK	29.9	-31.4	0	31.6	-	-	74	-42.4	-	-	0-360	201	V
4	* 4.308	31.43	PK	33.7	-27.8	0	37.33	-	-	74	-36.67	-	-	0-360	201	V
5	* 7.615	29.32	PK	35.6	-25.3	0	39.62	-	-	74	-34.38	-	-	0-360	101	H
6	* 12.337	28.48	PK	38.9	-22.3	0	45.08	-	-	74	-28.92	-	-	0-360	201	H
7	* 8.368	28.63	PK	35.8	-24.3	0	40.13	-	-	74	-33.87	-	-	0-360	101	V
8	* 12.001	27.17	PK	39	-22	0	44.17	-	-	74	-29.83	-	-	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/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.337	35.64	PK1	38.9	-22.3	0	52.24	-	-	74	-21.76	-	-	257	320	H
* 12.338	24.1	AD1	38.9	-22.3	.24	40.94	54	-13.06	-	-	-	-	257	320	H

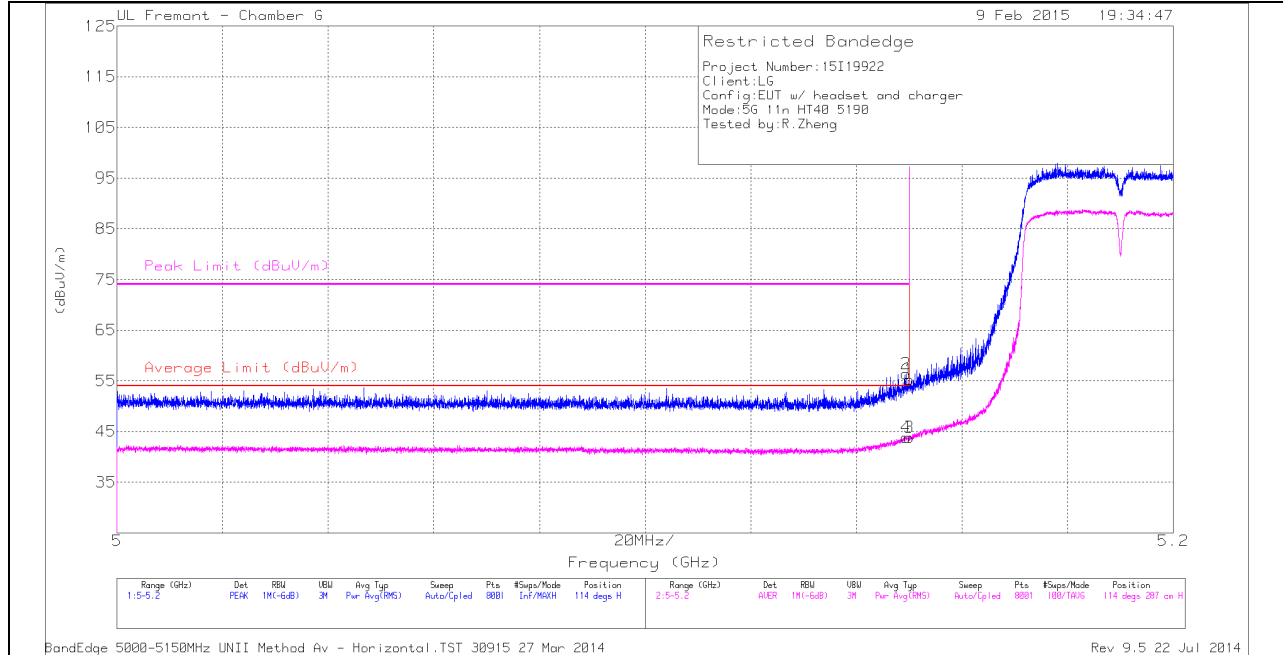
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 5.149	45.65	PK	34.3	-23.6	0	56.35	-	-	74	-17.65	114	287	H
4	* 5.149	32.72	RMS	34.3	-23.6	.45	43.87	54	-10.13	-	-	114	287	H
1	* 5.15	44.55	PK	34.3	-23.6	0	55.25	-	-	74	-18.75	114	287	H
3	* 5.15	32.72	RMS	34.3	-23.6	.45	43.87	54	-10.13	-	-	114	287	H

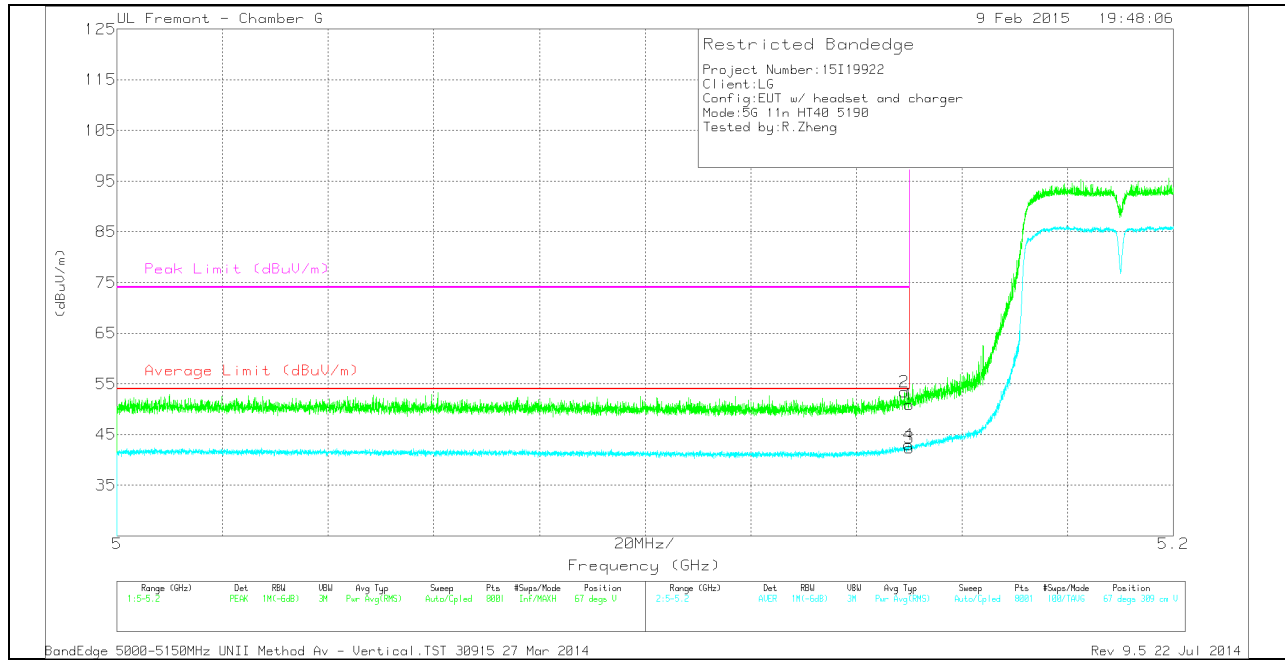
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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
2	* 5.149	42.75	PK	34.3	-23.6	0	53.45	-	-	74	-20.55	67	309	V
1	* 5.15	40.23	PK	34.3	-23.6	0	50.93	-	-	74	-23.07	67	309	V
3	* 5.15	31.19	RMS	34.3	-23.6	.45	42.34	54	-11.66	-	-	67	309	V
4	* 5.15	31.79	RMS	34.3	-23.6	.45	42.94	54	-11.06	-	-	67	309	V

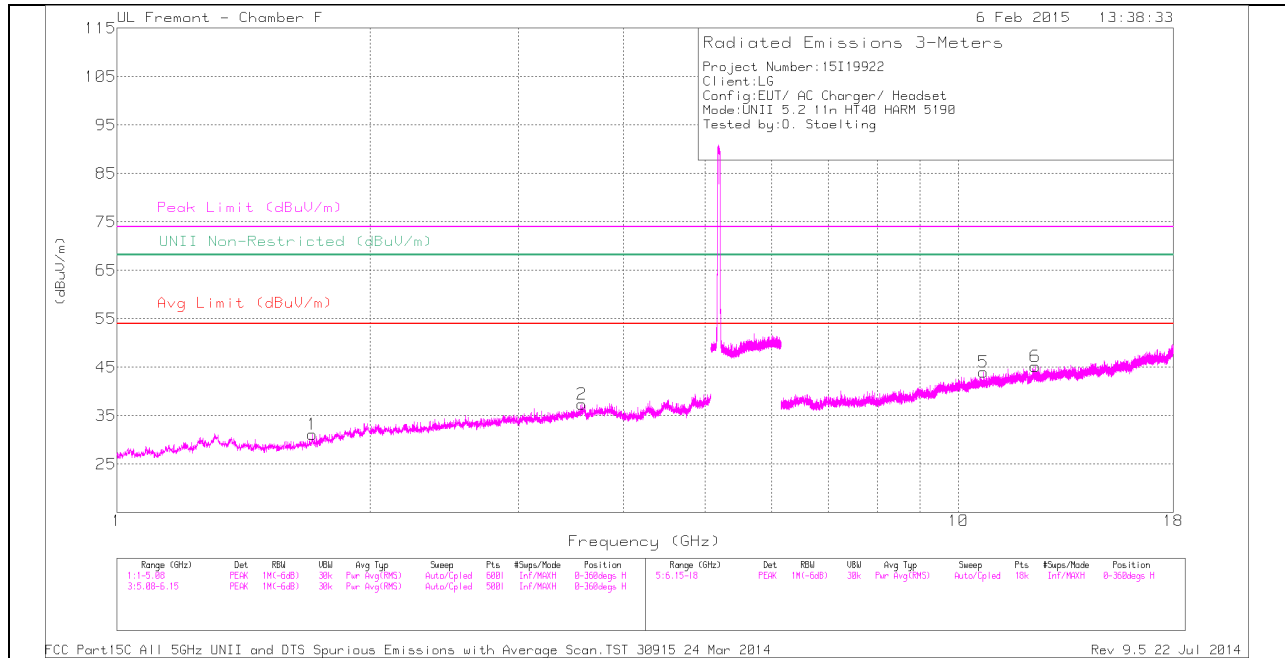
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

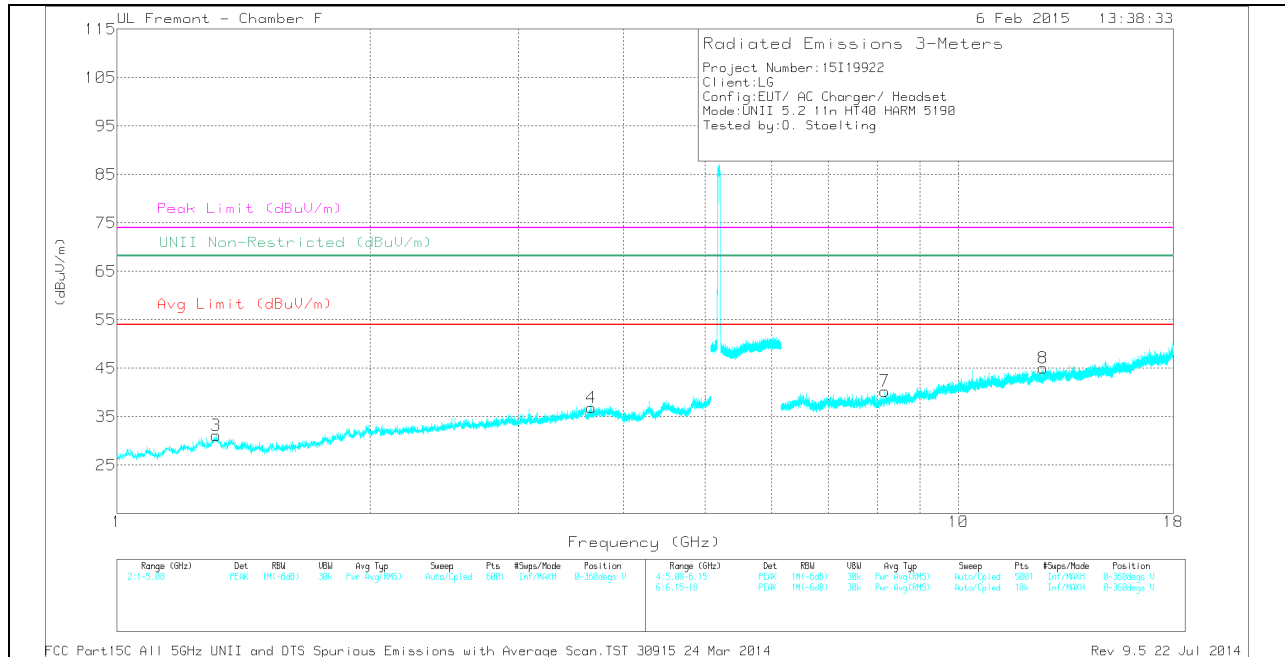
### HARMONICS AND SPURIOUS EMISSIONS

#### 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.

**LOW CHANNEL 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**

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.708	33.24	PK	29.3	-31.4	0	31.14	-	-	74	-42.86	-	-	0-360	100	H
2	* 3.57	31.54	PK	34.8	-28.9	0	37.44	-	-	74	-36.56	-	-	0-360	100	H
3	* 1.312	32.69	PK	30	-31.5	0	31.19	-	-	74	-42.81	-	-	0-360	101	V
4	* 3.659	30.83	PK	34.9	-28.8	0	36.93	-	-	74	-37.07	-	-	0-360	101	V
5	* 10.71	28.16	PK	38.1	-22.3	0	43.96	-	-	74	-30.04	-	-	0-360	100	H
6	* 12.338	28.57	PK	38.9	-22.3	0	45.17	-	-	74	-28.83	-	-	0-360	201	H
7	* 8.177	28.91	PK	35.8	-24.4	0	40.31	-	-	74	-33.69	-	-	0-360	101	V
8	* 12.612	28.77	PK	39.1	-22.8	0	45.07	-	-	74	-28.93	-	-	0-360	201	V

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

PK - Peak detector

RADIATED EMISSIONS

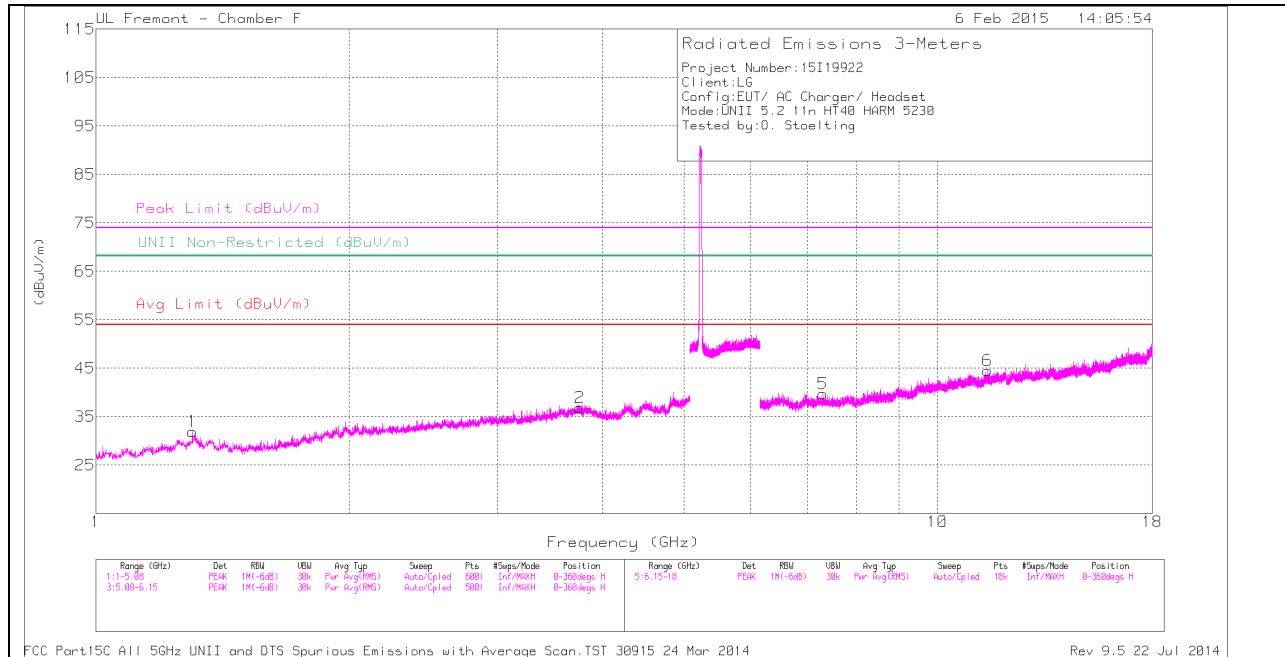
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.61	35.9	PK1	39.1	-22.8	0	52.2	-	-	74	-21.8	-	-	310	258	V
* 12.611	24.17	AD1	39.1	-22.8	.51	40.98	54	-13.02	-	-	-	-	310	258	V

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

PK1 - KDB789033 Method: Peak

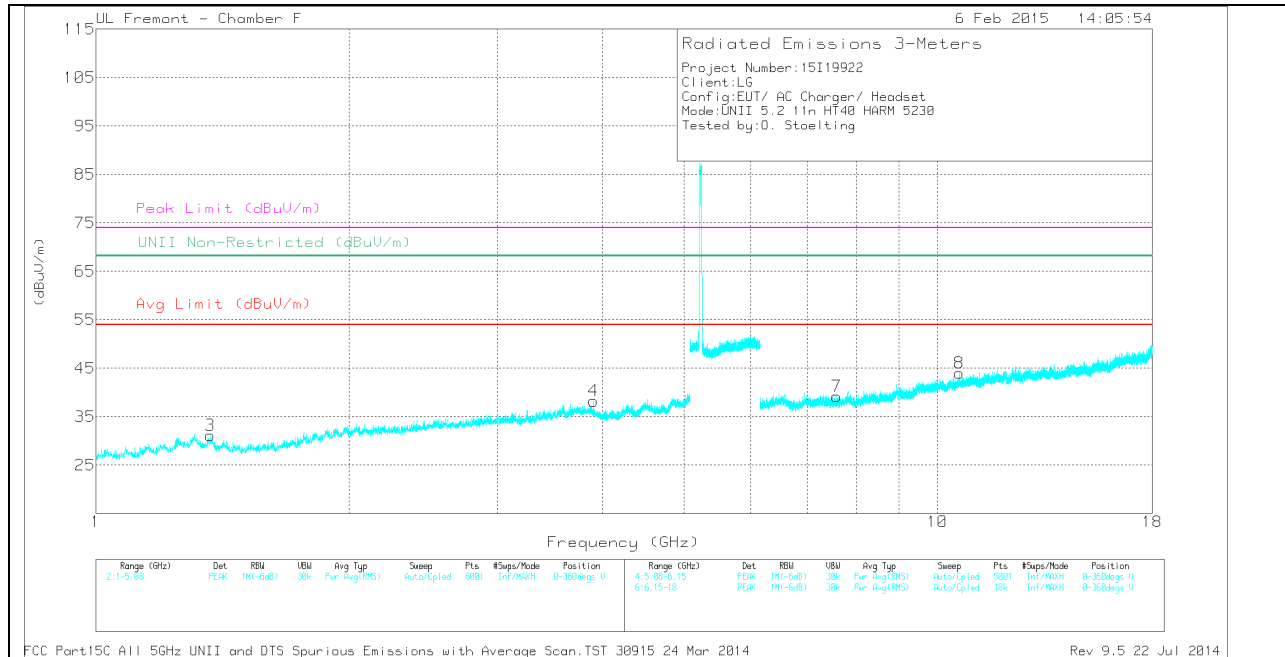
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**MID CHANNEL 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**

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/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	* 1.302	33.53	PK	30	-31.6	0	31.93	-	-	74	-42.07	-	-	0-360	100	H
2	* 3.76	31.66	PK	34.6	-29.4	0	36.86	-	-	74	-37.14	-	-	0-360	100	H
3	* 1.367	33.23	PK	29.5	-31.6	0	31.13	-	-	74	-42.87	-	-	0-360	101	V
4	* 3.905	33.54	PK	34	-29.3	0	38.24	-	-	74	-35.76	-	-	0-360	101	V
5	* 7.311	29.65	PK	35.6	-25.5	0	39.75	-	-	74	-34.25	-	-	0-360	100	H
6	* 11.476	28.12	PK	38.4	-22	0	44.52	-	-	74	-29.48	-	-	0-360	201	H
7	* 7.595	28.71	PK	35.6	-25.1	0	39.21	-	-	74	-34.79	-	-	0-360	201	V
8	* 10.621	27.5	PK	37.9	-21.4	0	44	-	-	74	-30	-	-	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/Filr/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
* 11.477	35.78	PK1	38.4	-22	0	52.18	-	-	74	-21.82	-	-	86	132	H
* 11.478	24.04	AD1	38.4	-22	.51	40.95	54	-13.05	-	-	-	-	86	132	H

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

PK1 - KDB789033 Method: Peak

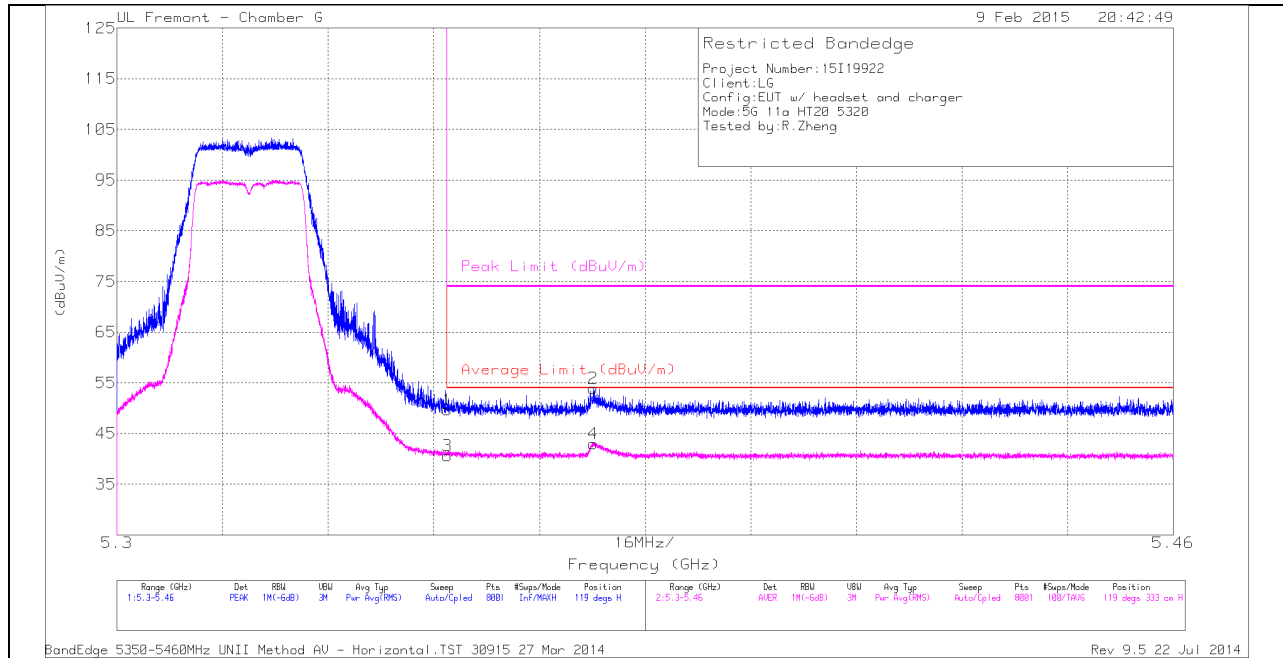
AD1 - KDB789033 Method: AD Primary Power Average

## 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 PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	38.75	PK	34.6	-23.7	0	49.65	-	-	74	-24.35	119	333	H
3	* 5.35	29.74	RMS	34.6	-23.7	.22	40.86	54	-13.14	-	-	119	333	H
2	* 5.372	42.97	PK	34.6	-23.7	0	53.87	-	-	74	-20.13	119	333	H
4	* 5.372	32.1	RMS	34.6	-23.7	.22	43.22	54	-10.78	-	-	119	333	H

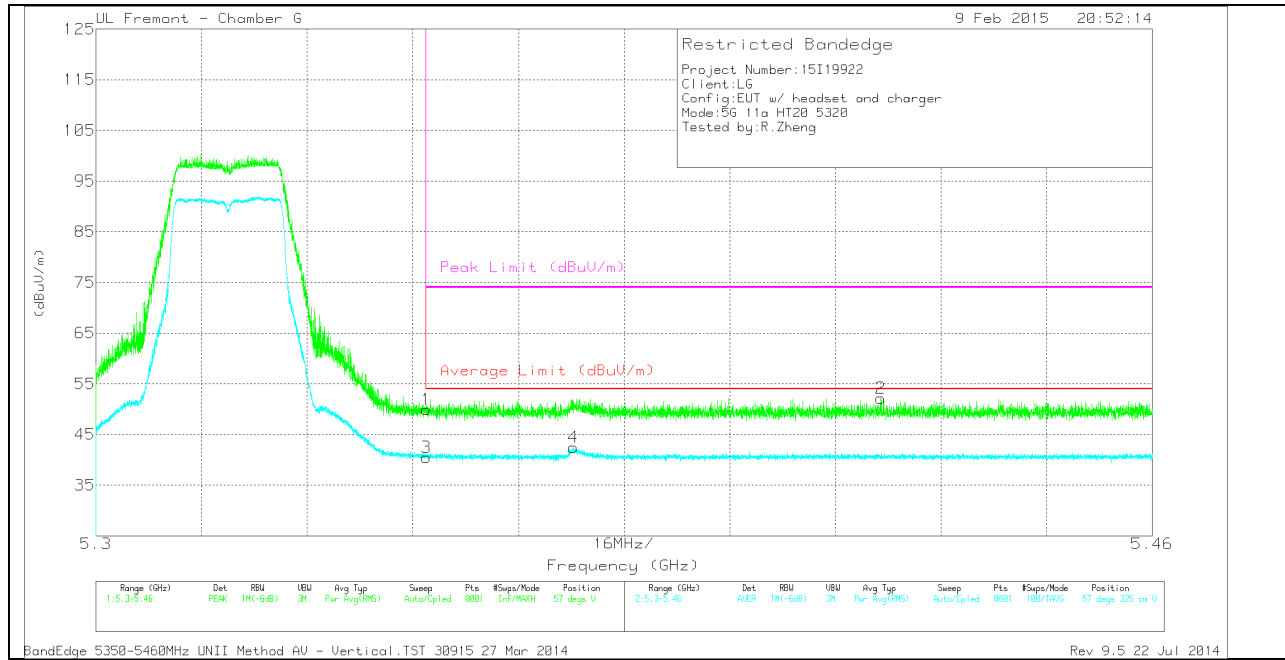
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 5.35	39.05	PK	34.6	-23.7	0	49.95	-	-	74	-24.05	57	325	V
3	* 5.35	29.31	RMS	34.6	-23.7	.22	40.43	54	-13.57	-	-	57	325	V
4	* 5.372	31.31	RMS	34.6	-23.7	.22	42.43	54	-11.57	-	-	57	325	V
2	* 5.419	41.15	PK	34.6	-23.6	0	52.15	-	-	74	-21.85	57	325	V

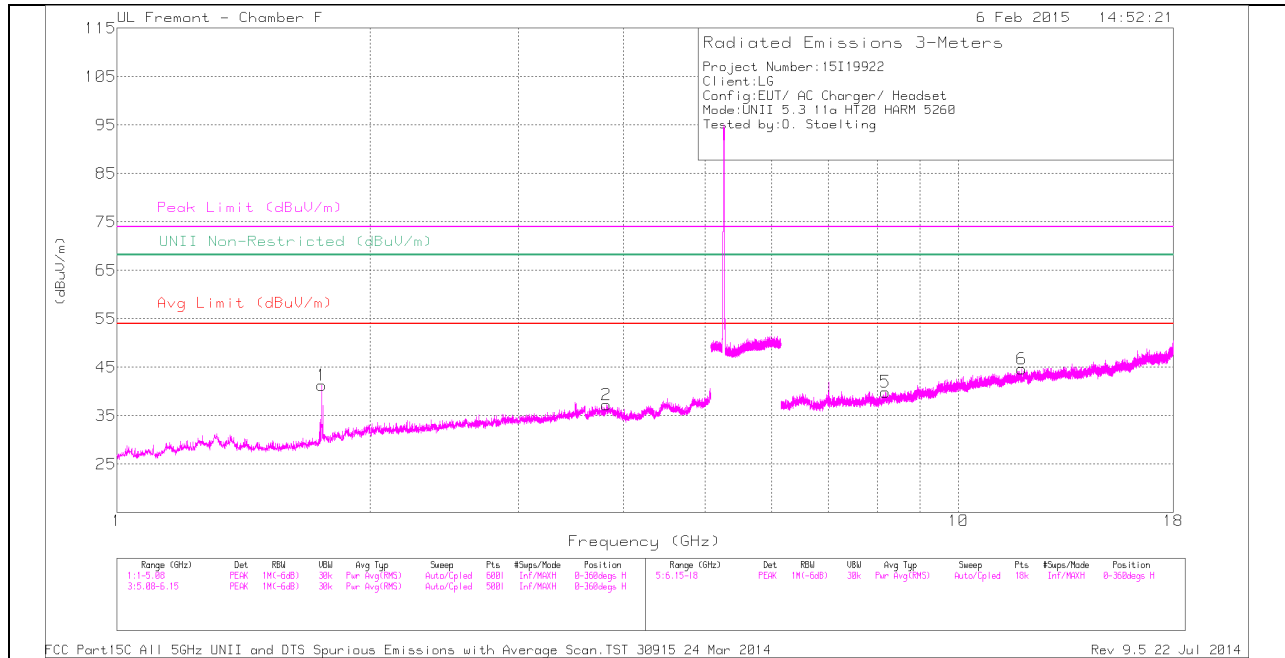
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

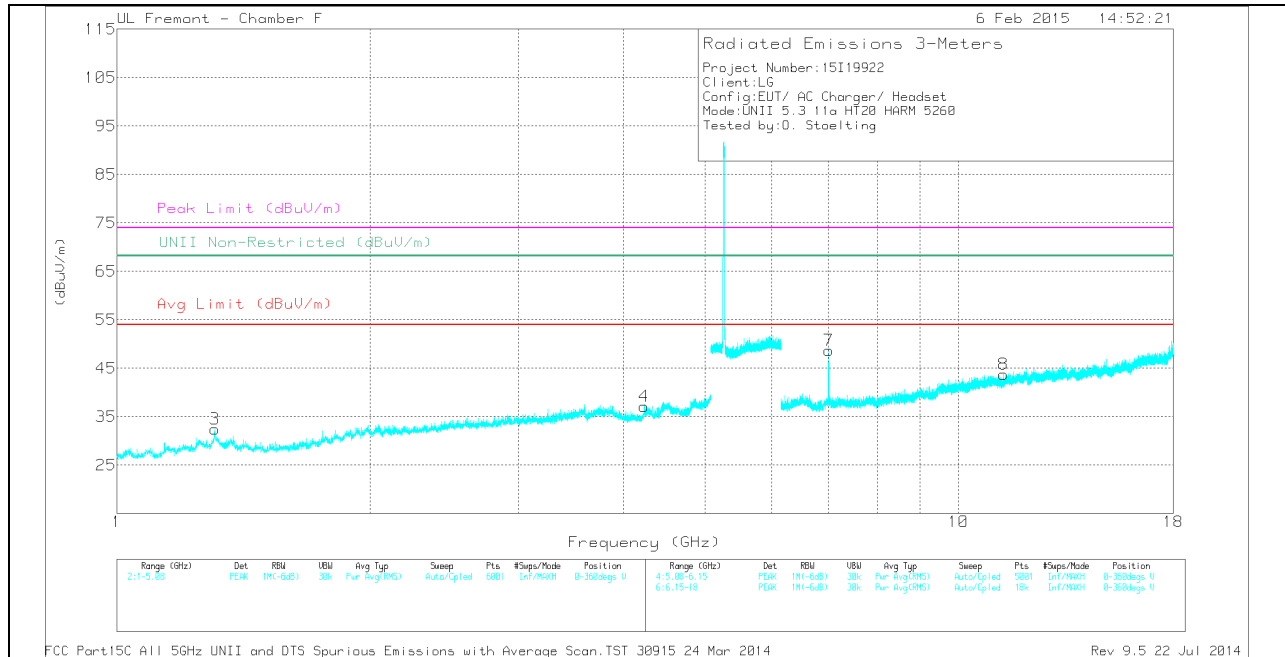
### HARMONICS AND SPURIOUS EMISSIONS

#### 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.

**LOW CHANNEL 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**

Trace Markers

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	1.751	42.64	PK	29.8	-31.2	0	41.24	-	-	-	-	68.2	-26.96	0-360	100	H
2	* 3.815	31.93	PK	34.3	-29	0	37.23	-	-	74	-36.77	-	-	0-360	201	H
3	* 1.307	34.01	PK	30	-31.5	0	32.51	-	-	74	-41.49	-	-	0-360	201	V
4	* 4.234	30.64	PK	33.6	-27.1	0	37.14	-	-	74	-36.86	-	-	0-360	201	V
5	* 8.187	28.52	PK	35.8	-24.4	0	39.92	-	-	74	-34.08	-	-	0-360	100	H
6	* 11.896	28.42	PK	38.9	-22.6	0	44.72	-	-	74	-29.28	-	-	0-360	100	H
7	7.012	38.89	PK	35.5	-25.7	0	48.69	-	-	-	-	68.2	-19.51	0-360	201	V
8	* 11.318	27.81	PK	38.2	-22.3	0	43.71	-	-	74	-30.29	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

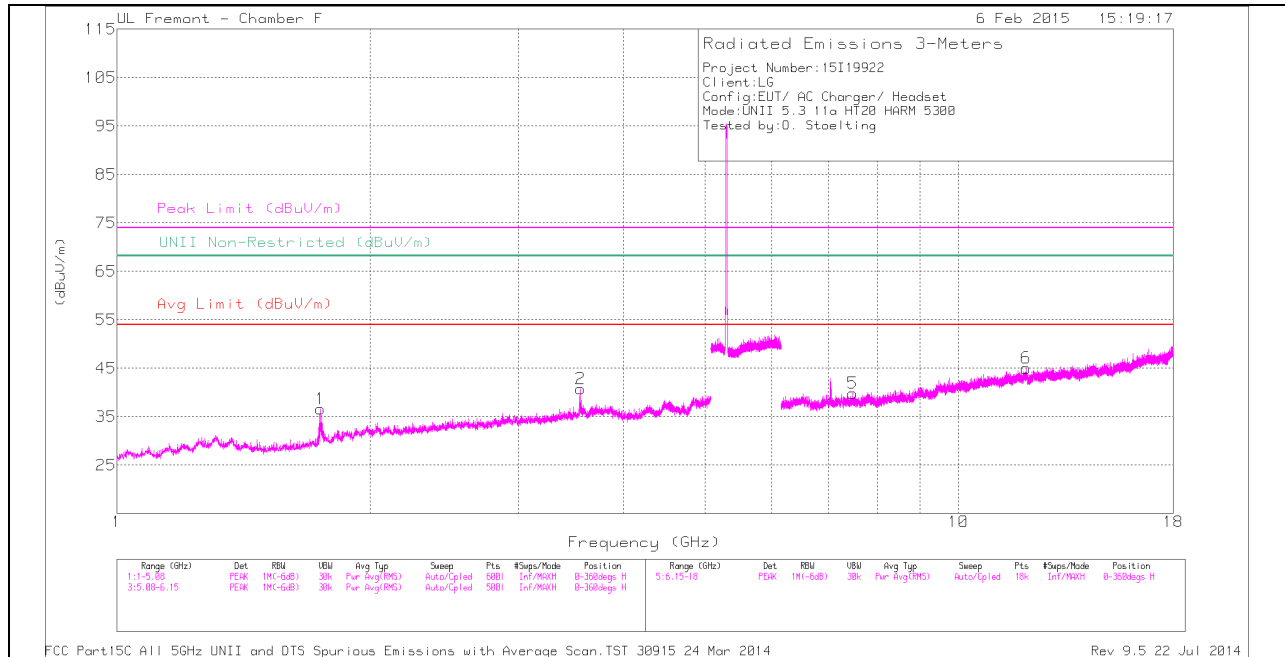
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.896	35.16	PK1	38.9	-22.6	0	51.46	-	-	74	-22.54	-	-	273	228	H
* 11.894	23.92	AD1	38.9	-22.6	.22	40.44	54	-13.56	-	-	-	-	273	228	H
7.013	55.37	PK1	35.5	-25.7	0	65.17	-	-	-	-	68.2	-3.03	227	235	V
7.013	27.06	AD1	35.5	-25.7	.22	37.08	-	-	-	-	-	-	227	235	V

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

PK1 - KDB789033 Method: Peak

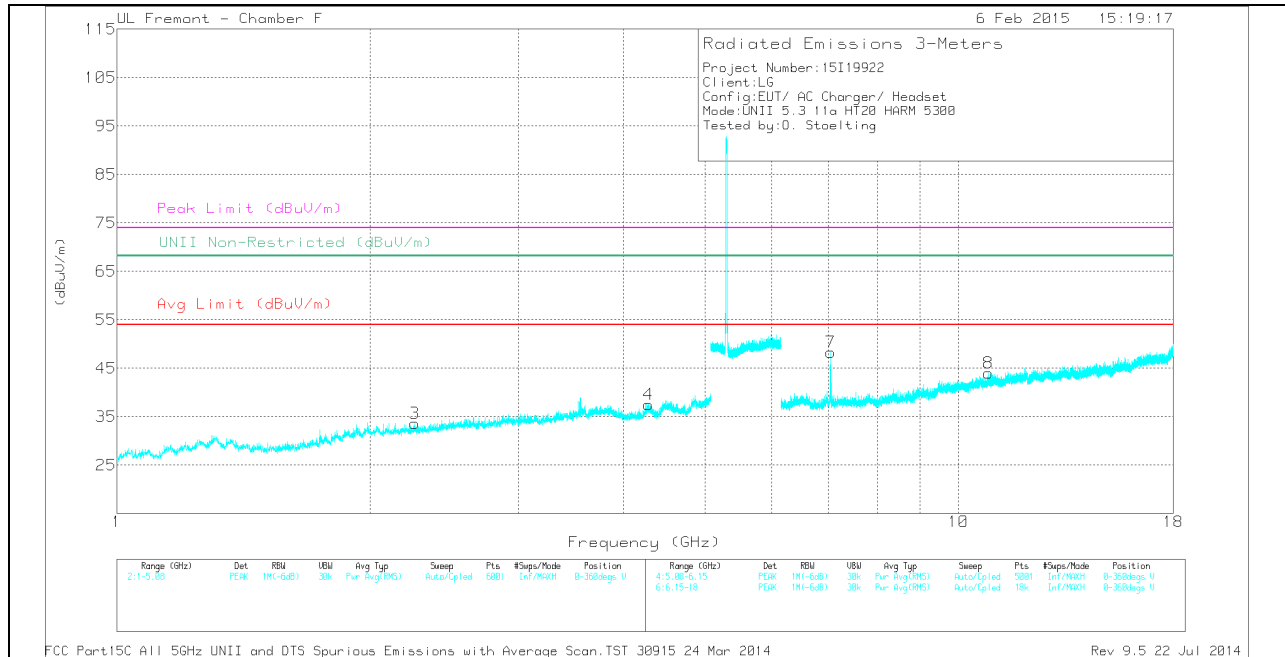
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**MID CHANNEL 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**

Trace Markers

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	1.747	38.19	PK	29.7	-31.3	0	36.59	-	-	-	-	68.2	-31.61	0-360	101	H
2	* 3.554	35.05	PK	34.7	-29	0	40.75	-	-	74	-33.25	-	-	0-360	201	H
3	* 2.257	32.27	PK	31.8	-30.5	0	33.57	-	-	74	-40.43	-	-	0-360	201	V
4	* 4.282	30.78	PK	33.7	-27	0	37.48	-	-	74	-36.52	-	-	0-360	101	V
5	* 7.488	29.6	PK	35.6	-25.4	0	39.8	-	-	74	-34.2	-	-	0-360	201	H
6	* 12.029	27.79	PK	39	-21.8	0	44.99	-	-	74	-29.01	-	-	0-360	201	H
7	7.051	38.94	PK	35.5	-26.2	0	48.24	-	-	-	-	68.2	-19.96	0-360	101	V
8	* 10.861	27.95	PK	38.1	-22	0	44.05	-	-	74	-29.95	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

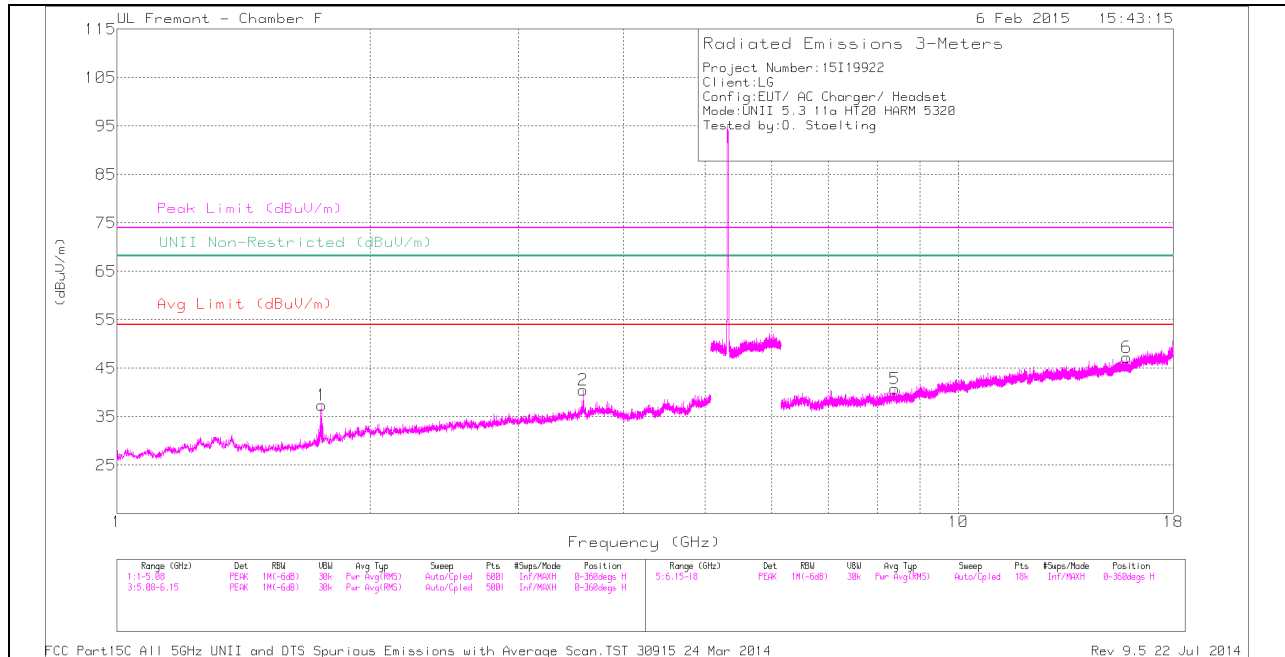
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.052	54.75	PK1	35.5	-26.2	0	64.05	-	-	-	-	68.2	-4.15	242	313	V
7.049	27.33	AD1	35.5	-26.2	.22	36.85	-	-	-	-	-	-	242	313	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

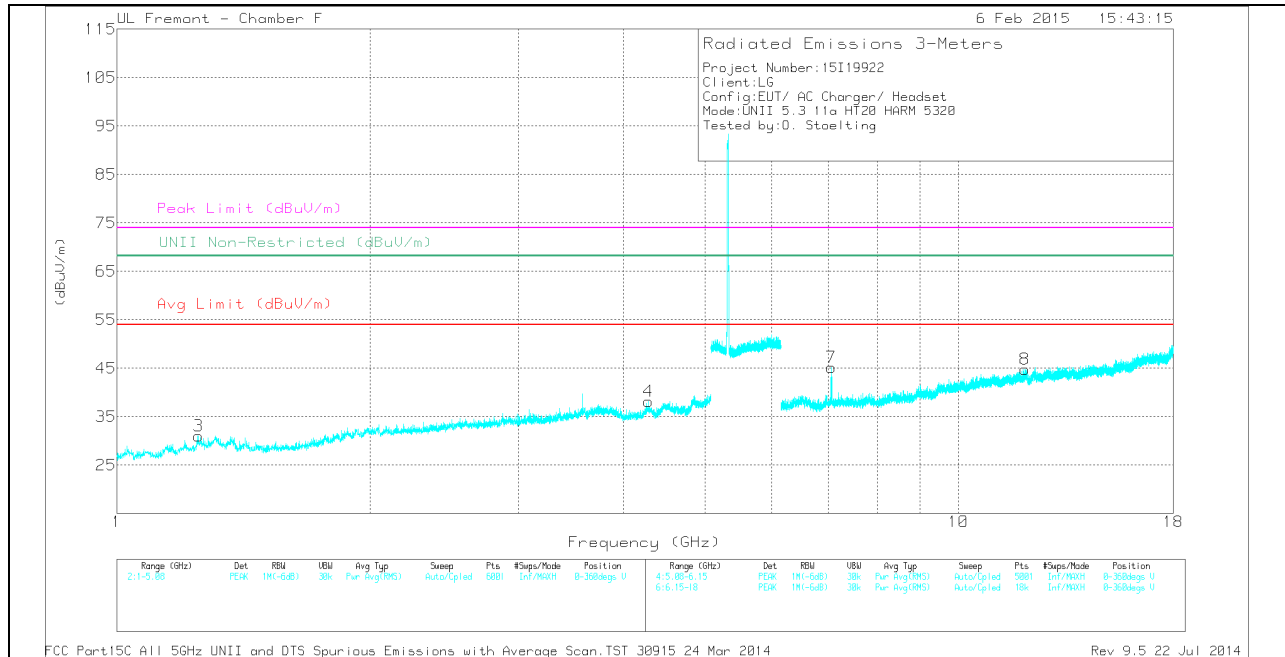
**HIGH CHANNEL HORIZONTAL**



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



**HIGH CHANNEL 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**

Trace Markers

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	1.751	38.88	PK	29.7	-31.2	0	37.38	-	-	-	-	68.2	-30.82	0-360	101	H
2	* 3.579	34.72	PK	34.8	-29	0	40.52	-	-	74	-33.48	-	-	0-360	101	H
3	* 1.25	33.49	PK	29.5	-32	0	30.99	-	-	74	-43.01	-	-	0-360	101	V
4	* 4.28	31.45	PK	33.7	-27	0	38.15	-	-	74	-35.85	-	-	0-360	101	V
5	* 8.404	28.55	PK	35.8	-23.6	0	40.75	-	-	74	-33.25	-	-	0-360	100	H
6	* 15.854	29.3	PK	40.4	-22.4	0	47.3	-	-	74	-26.7	-	-	0-360	100	H
7	7.061	35.98	PK	35.5	-26.3	0	45.18	-	-	-	-	68.2	-23.02	0-360	101	V
8	* 11.994	27.73	PK	39	-21.9	0	44.83	-	-	74	-29.17	-	-	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
* 15.855	36.44	PK1	40.4	-22.4	0	54.44	-	-	74	-19.56	-	-	276	324	H
* 15.855	24.88	AD1	40.4	-22.4	.22	43.1	54	-10.9	-	-	-	-	276	324	H
7.062	51	PK1	35.5	-26.3	0	60.2	-	-	-	-	68.2	-8	225	149	V
7.06	26.64	AD1	35.5	-26.3	.22	36.06	-	-	-	-	-	-	225	149	V

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

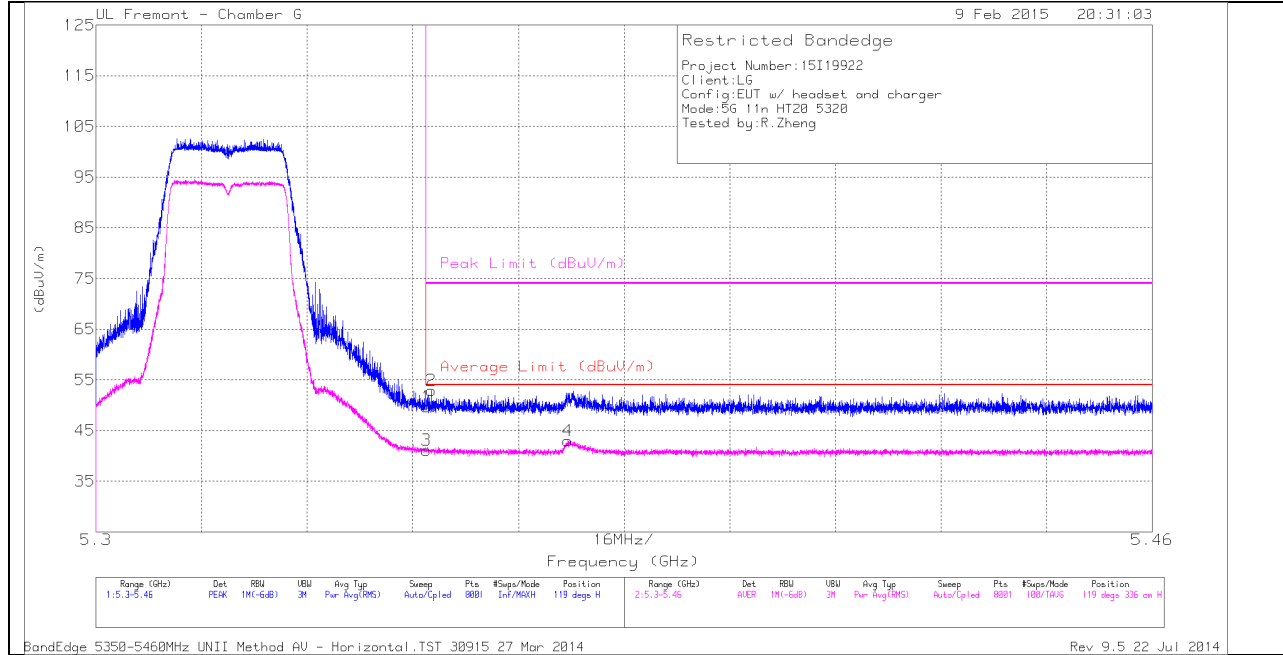
PK1 - KDB789033 Method: Peak

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 PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

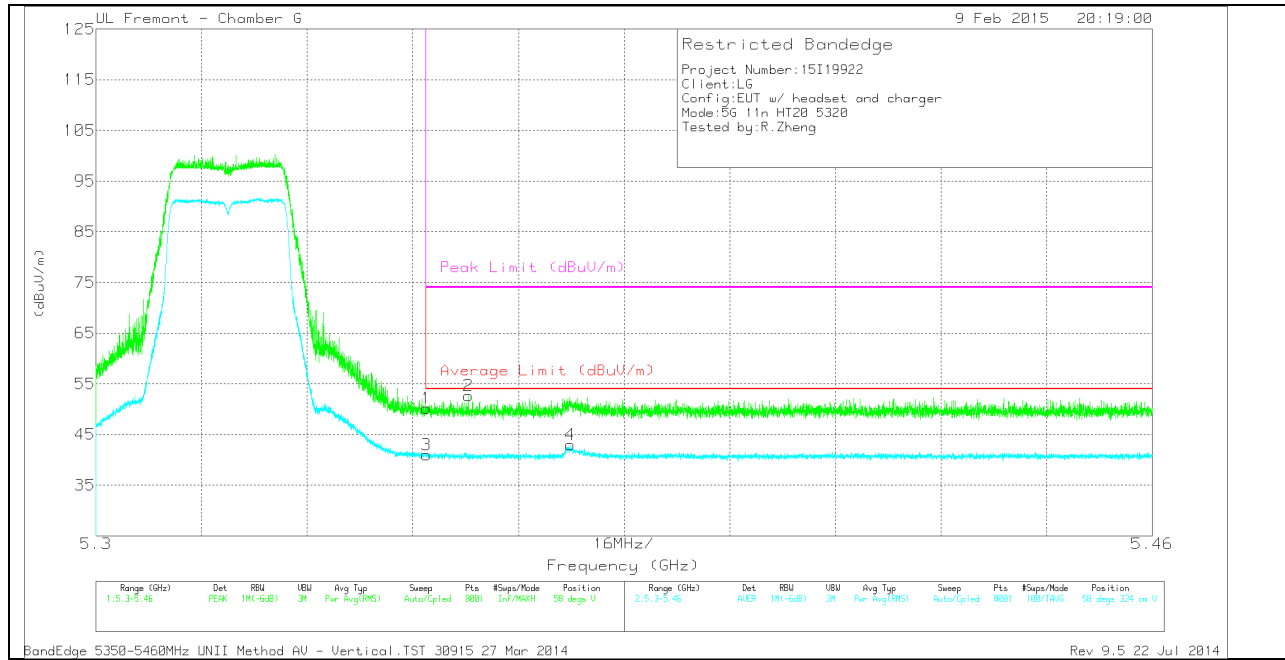
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.81	PK	34.6	-23.7	0	49.71	-	-	74	-24.29	119	336	H
3	* 5.35	30.23	RMS	34.6	-23.7	.23	41.36	54	-12.64	-	-	119	336	H
2	* 5.351	42.02	PK	34.6	-23.7	0	52.92	-	-	74	-21.08	119	336	H
4	* 5.372	32.03	RMS	34.6	-23.7	.23	43.16	54	-10.84	-	-	119	336	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	39.32	PK	34.6	-23.7	0	50.22	-	-	74	-23.78	58	324	V
3	* 5.35	29.59	RMS	34.6	-23.7	.23	40.72	54	-13.28	-	-	58	324	V
2	* 5.356	41.72	PK	34.6	-23.7	0	52.62	-	-	74	-21.38	58	324	V
4	* 5.372	31.66	RMS	34.6	-23.7	.23	42.79	54	-11.21	-	-	58	324	V

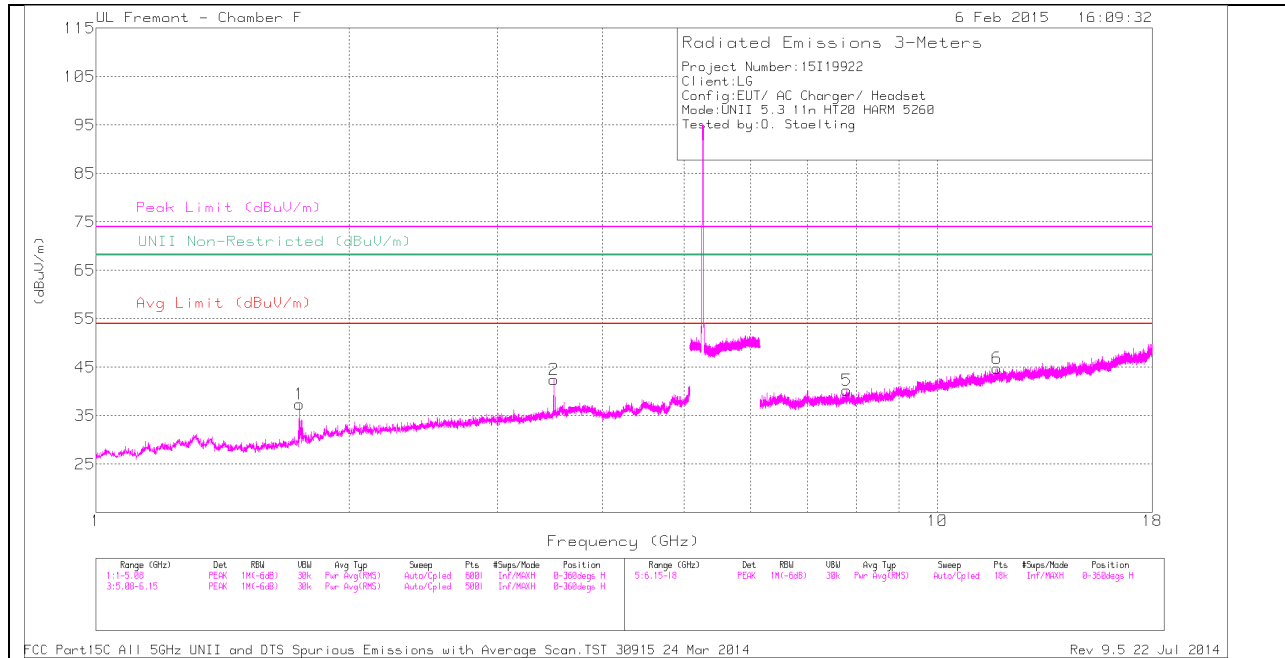
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

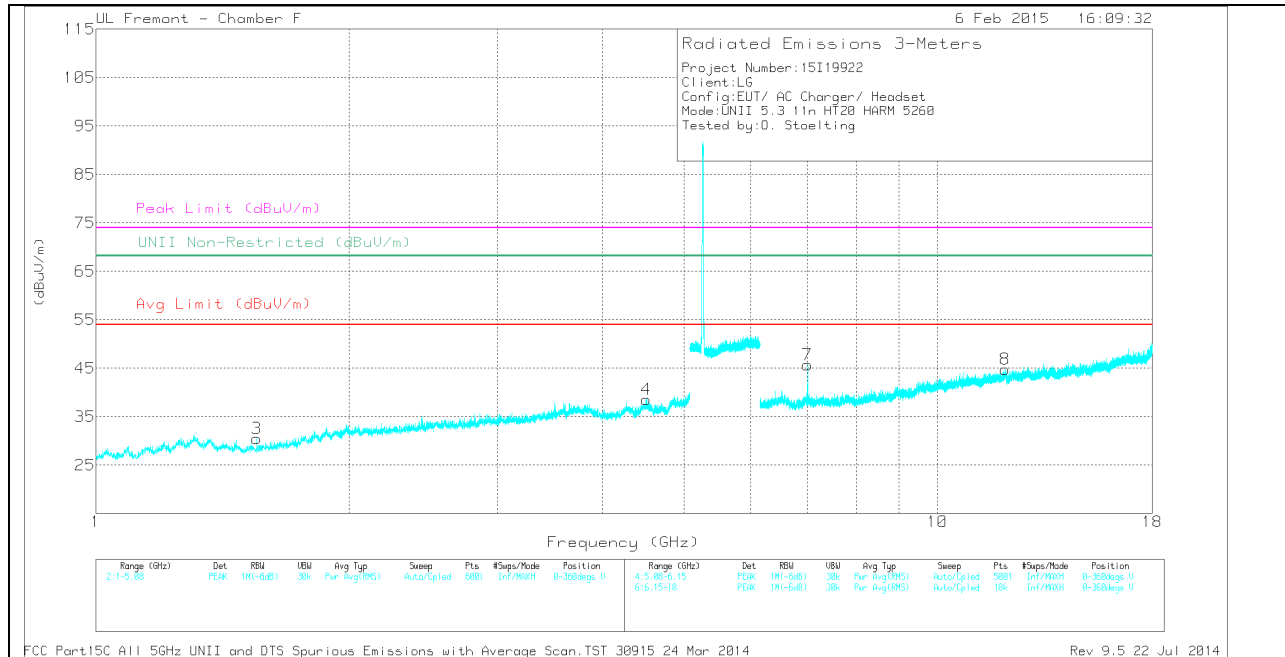
### HARMONICS AND SPURIOUS EMISSIONS

#### 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.

**LOW CHANNEL 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**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.751	42.64	PK	29.8	-31.2	0	41.24	-	-	-	-	68.2	-26.96	0-360	100	H
2	* 3.815	31.93	PK	34.3	-29	0	37.23	-	-	74	-36.77	-	-	0-360	201	H
3	* 1.307	34.01	PK	30	-31.5	0	32.51	-	-	74	-41.49	-	-	0-360	201	V
4	* 4.234	30.64	PK	33.6	-27.1	0	37.14	-	-	74	-36.86	-	-	0-360	201	V
5	* 8.187	28.52	PK	35.8	-24.4	0	39.92	-	-	74	-34.08	-	-	0-360	100	H
6	* 11.896	28.42	PK	38.9	-22.6	0	44.72	-	-	74	-29.28	-	-	0-360	100	H
7	7.012	38.89	PK	35.5	-25.7	0	48.69	-	-	-	-	68.2	-19.51	0-360	201	V
8	* 11.318	27.81	PK	38.2	-22.3	0	43.71	-	-	74	-30.29	-	-	0-360	101	V

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

PK - Peak detector

*RADIATED EMISSIONS*

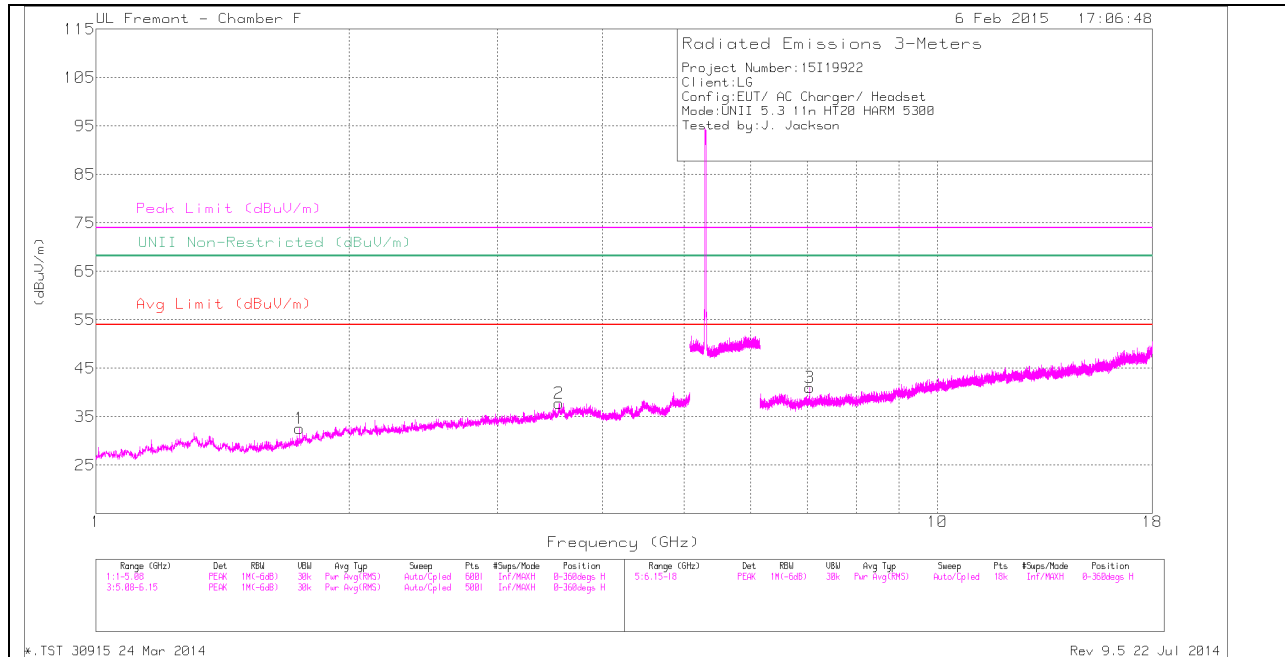
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.896	35.16	PK1	38.9	-22.6	0	51.46	-	-	74	-22.54	-	-	273	228	H
* 11.894	23.92	AD1	38.9	-22.6	.22	40.44	54	-13.56	-	-	-	-	273	228	H
7.013	55.37	PK1	35.5	-25.7	0	65.17	-	-	-	-	68.2	-3.03	227	235	V
7.013	27.06	AD1	35.5	-25.7	.22	37.08	-	-	-	-	-	-	227	235	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

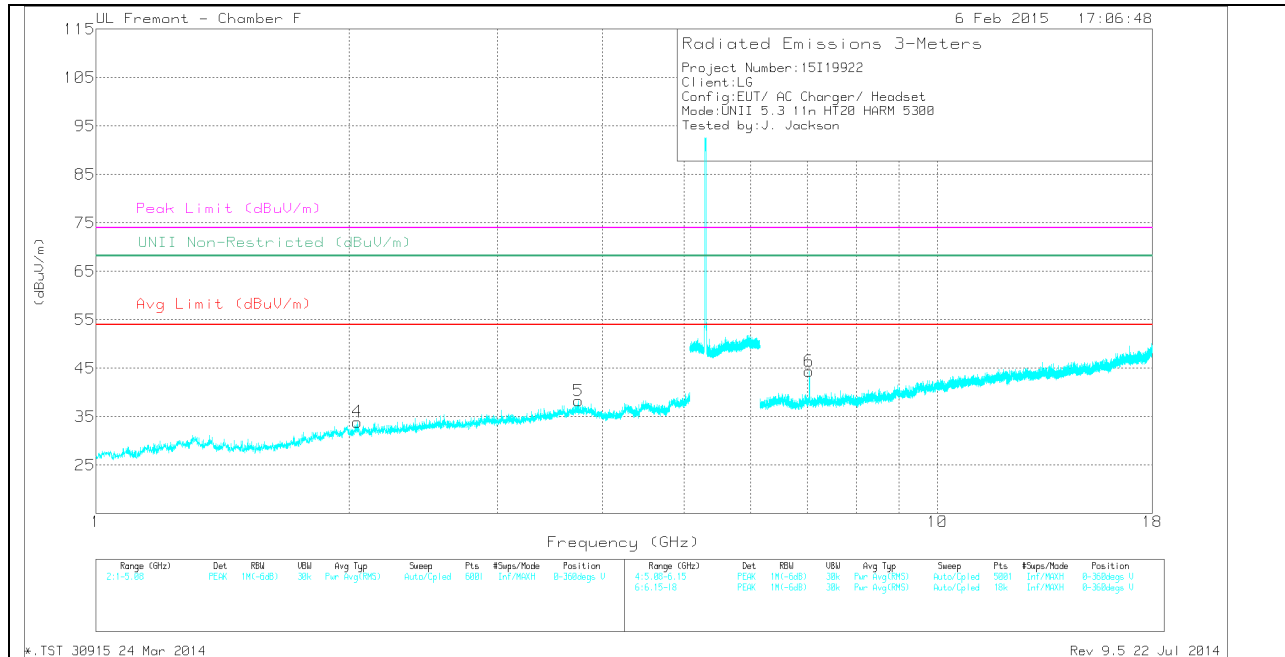
**MID CHANNEL HORIZONTAL**



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



**MID CHANNEL 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**

Trace Markers

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	1.745	34.15	PK	29.7	-31.3	0	32.55	-	-	-	-	68.2	-35.65	0-360	201	H
2	* 3.55	32.15	PK	34.6	-29	0	37.75	-	-	74	-36.25	-	-	0-360	201	H
4	2.043	32.85	PK	31.8	-30.7	0	33.95	-	-	-	-	68.2	-34.25	0-360	201	V
5	* 3.745	33.11	PK	34.6	-29.4	0	38.31	-	-	74	-35.69	-	-	0-360	201	V
3	7.053	31.76	PK	35.5	-26.2	0	41.06	-	-	-	-	68.2	-27.14	0-360	201	H
6	7.041	34.95	PK	35.5	-26	0	44.45	-	-	-	-	68.2	-23.75	0-360	201	V

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

PK - Peak detector

Radiated Emissions

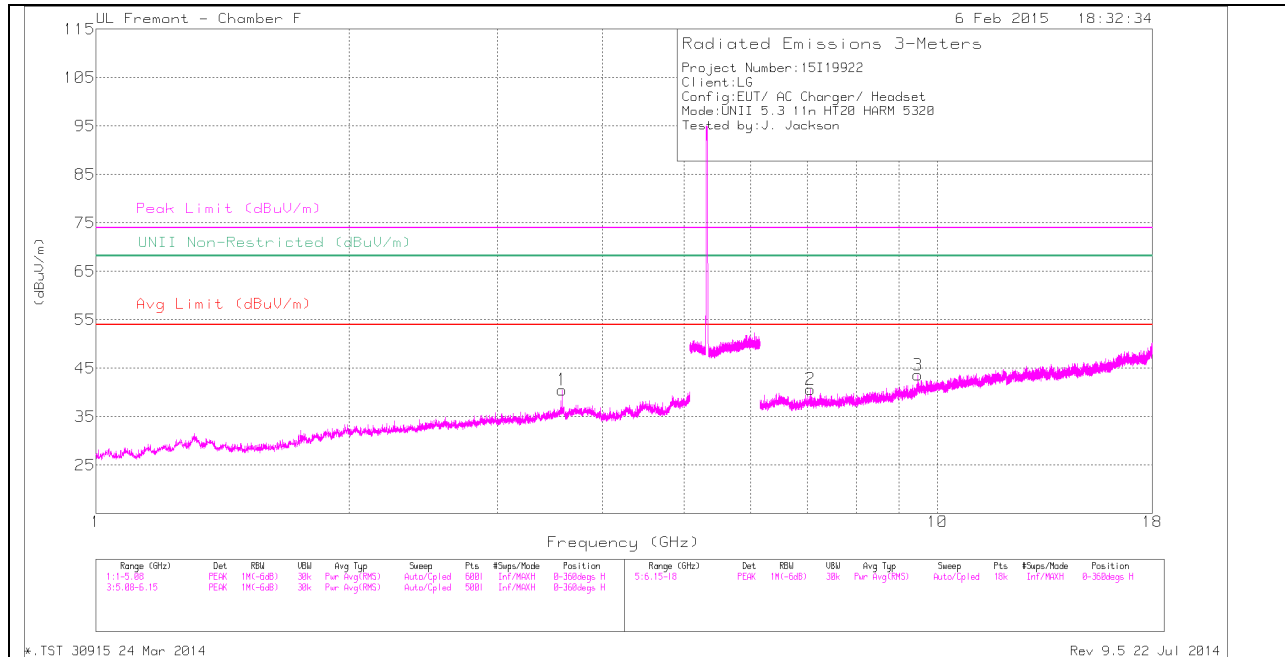
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.55	33.8	PK1	34.6	-29	0	39.4	-	-	74	-34.6	-	-	55	202	H
* 3.549	27.43	AD1	34.6	-29	.24	33.27	54	-20.73	-	-	-	-	55	202	H
* 3.745	40.03	PK1	34.6	-29.4	0	45.23	-	-	74	-28.77	-	-	225	202	V
* 3.746	28.58	AD1	34.6	-29.4	.24	34.02	54	-19.98	-	-	-	-	225	202	V

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

PK1 - KDB789033 Method: Peak

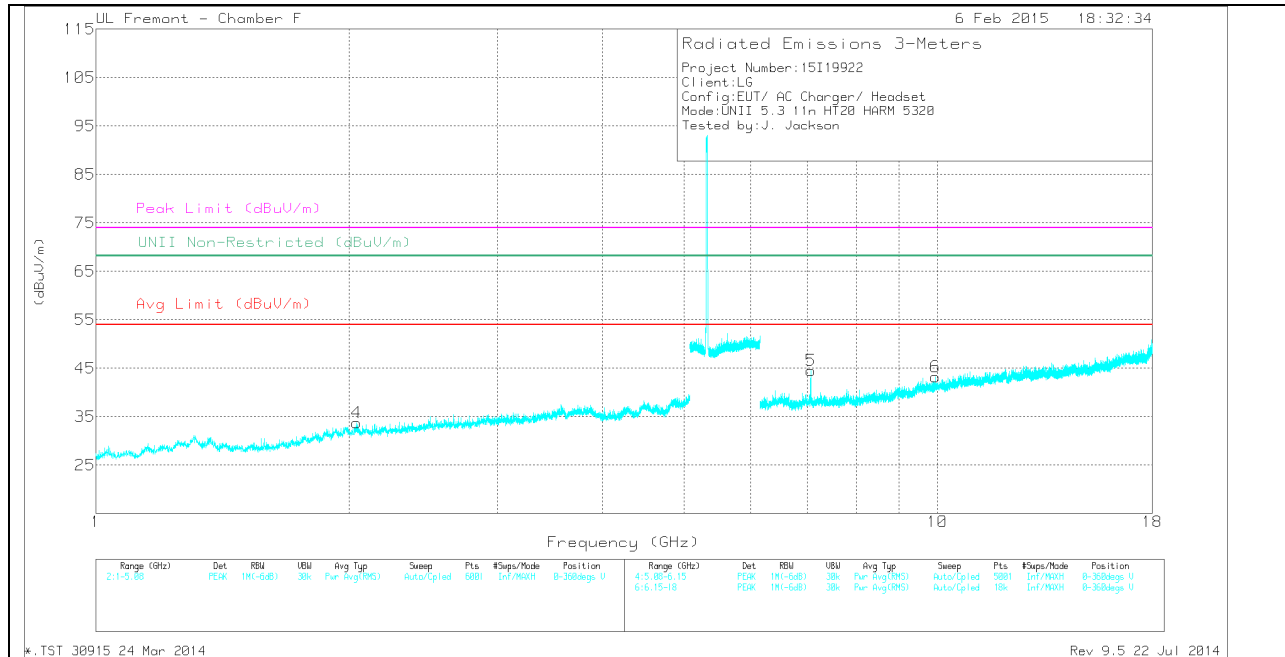
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**HIGH CHANNEL 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**

Trace Markers

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	* 3.581	34.87	PK	34.8	-29.1	0	40.57	-	-	74	-33.43	-	-	0-360	100	H
4	2.04	32.68	PK	31.8	-30.7	0	33.78	-	-	-	-	68.2	-34.42	0-360	201	V
2	7.061	31.5	PK	35.5	-26.3	0	40.7	-	-	-	-	68.2	-27.5	0-360	101	H
3	* 9.478	28.11	PK	36.8	-21.3	0	43.61	-	-	74	-30.39	-	-	0-360	201	H
5	7.072	35.22	PK	35.5	-26.2	0	44.52	-	-	-	-	68.2	-23.68	0-360	101	V
6	9.935	28.28	PK	37.2	-22.3	0	43.18	-	-	-	-	68.2	-25.02	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
* 3.579	47.42	PK1	34.8	-29	0	53.22	-	-	74	-20.78	-	-	360	100	H
* 3.581	28.2	AD1	34.8	-29.1	.24	34.14	54	-19.86	-	-	-	-	360	100	H
* 9.478	34.76	PK1	36.8	-21.3	0	50.26	-	-	74	-23.74	-	-	360	202	H
* 9.48	23.91	AD1	36.8	-21.3	.24	39.65	54	-14.35	-	-	-	-	360	202	H

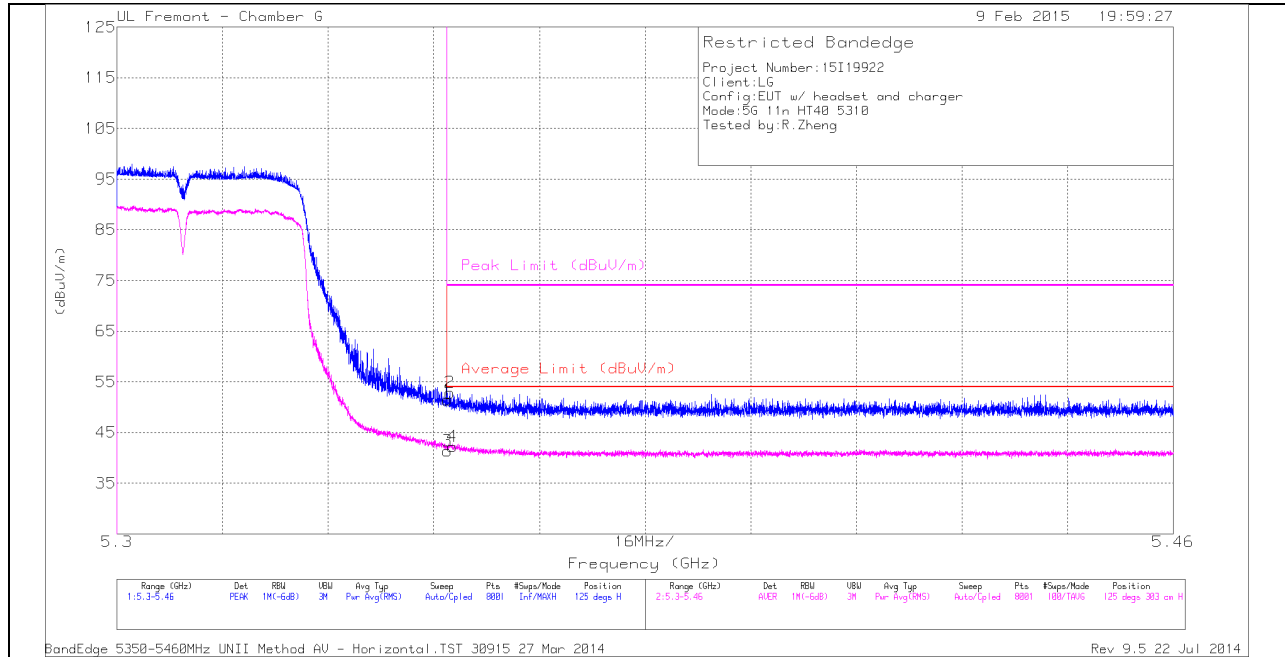
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

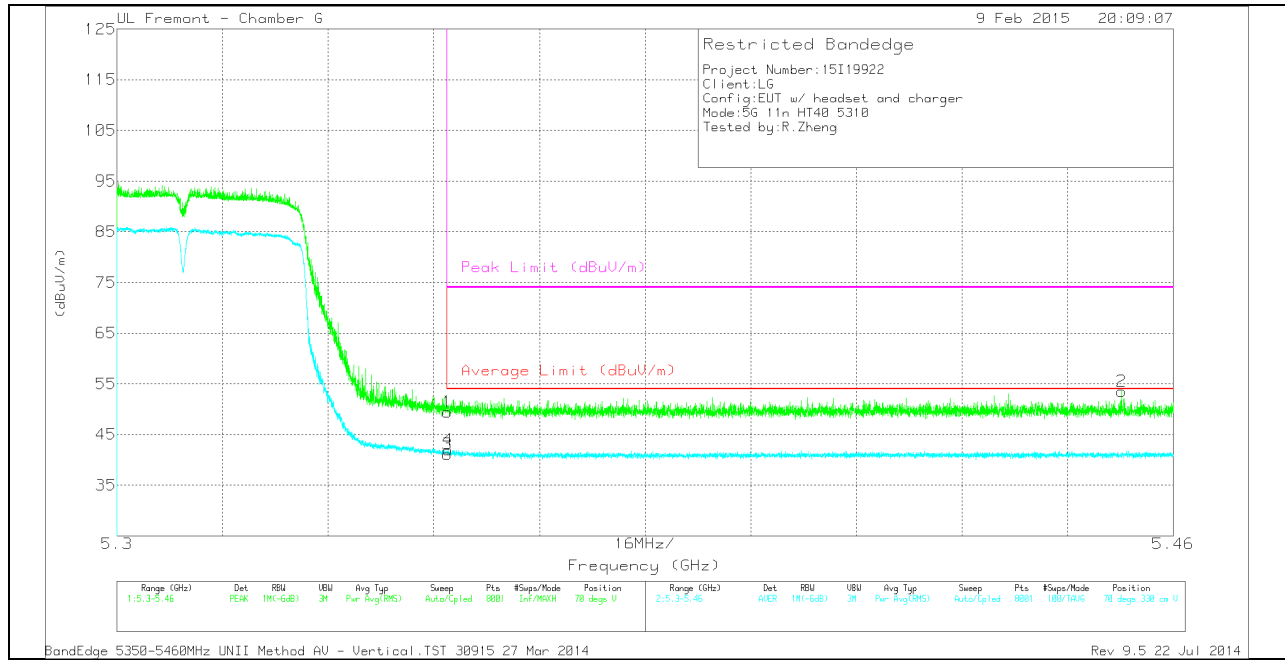
#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	40.47	PK	34.6	-23.7	0	51.37	-	-	74	-22.63	125	303	H
2	* 5.35	41.94	PK	34.6	-23.7	0	52.84	-	-	74	-21.16	125	303	H
3	* 5.35	30.41	RMS	34.6	-23.7	.45	41.76	54	-12.24	-	-	125	303	H
4	* 5.351	31.37	RMS	34.6	-23.7	.45	42.72	54	-11.28	-	-	125	303	H

**VERTICAL PEAK AND AVERAGE PLOT**

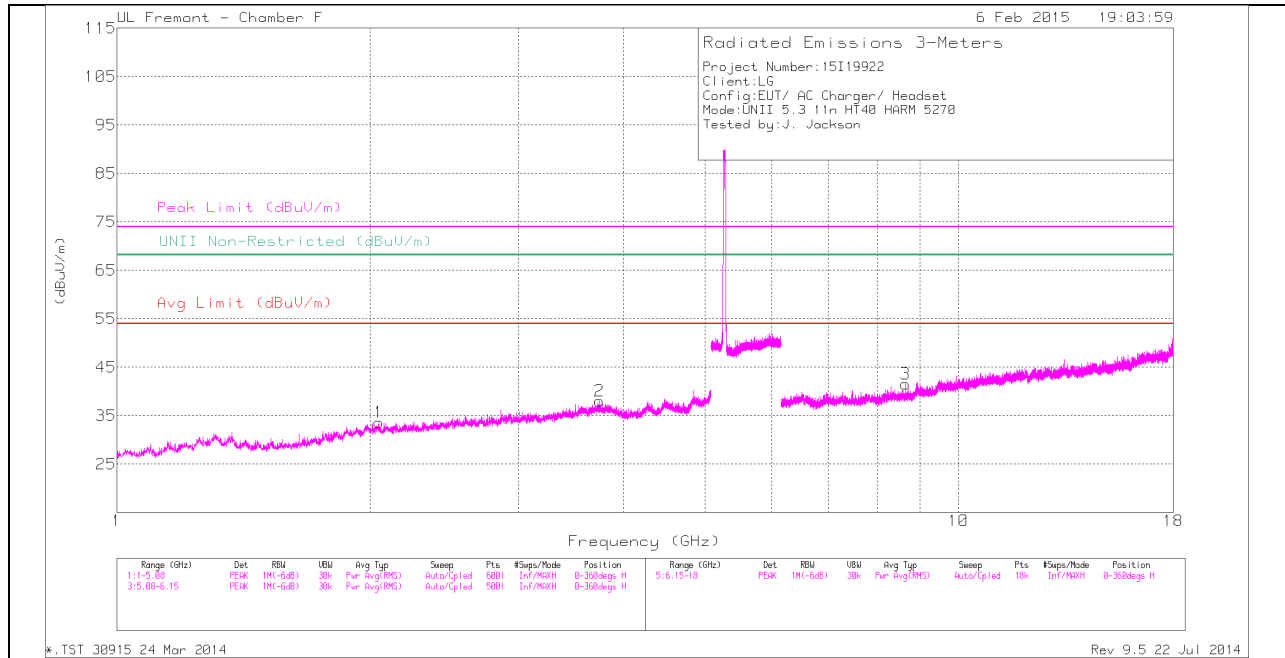


**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 5.35	38.51	PK	34.6	-23.7	0	49.41	-	-	74	-24.59	70	330	V
3	* 5.35	29.8	RMS	34.6	-23.7	.45	41.15	54	-12.85	-	-	70	330	V
4	* 5.35	30.6	RMS	34.6	-23.7	.45	41.95	54	-12.05	-	-	70	330	V
2	* 5.452	42.37	PK	34.7	-23.6	0	53.47	-	-	74	-20.53	70	330	V

### HARMONICS AND SPURIOUS EMISSIONS

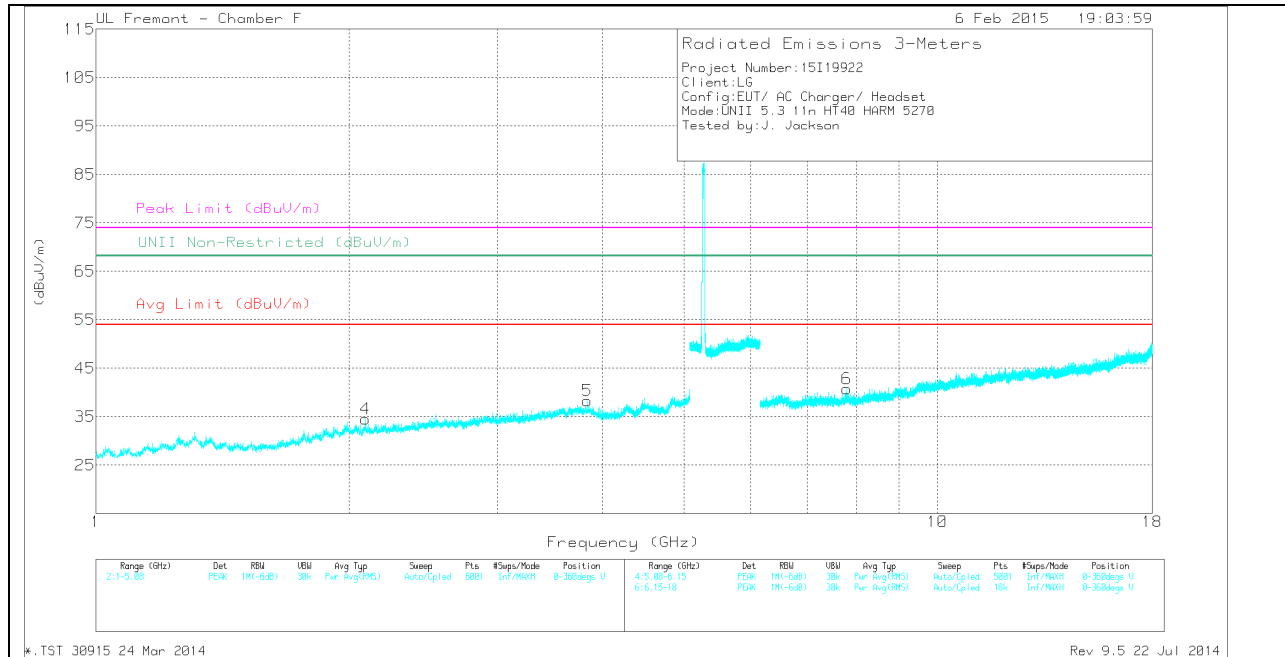
#### LOW CHANNEL HORIZONTAL



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



**LOW CHANNEL 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**

*TRACE MARKERS*

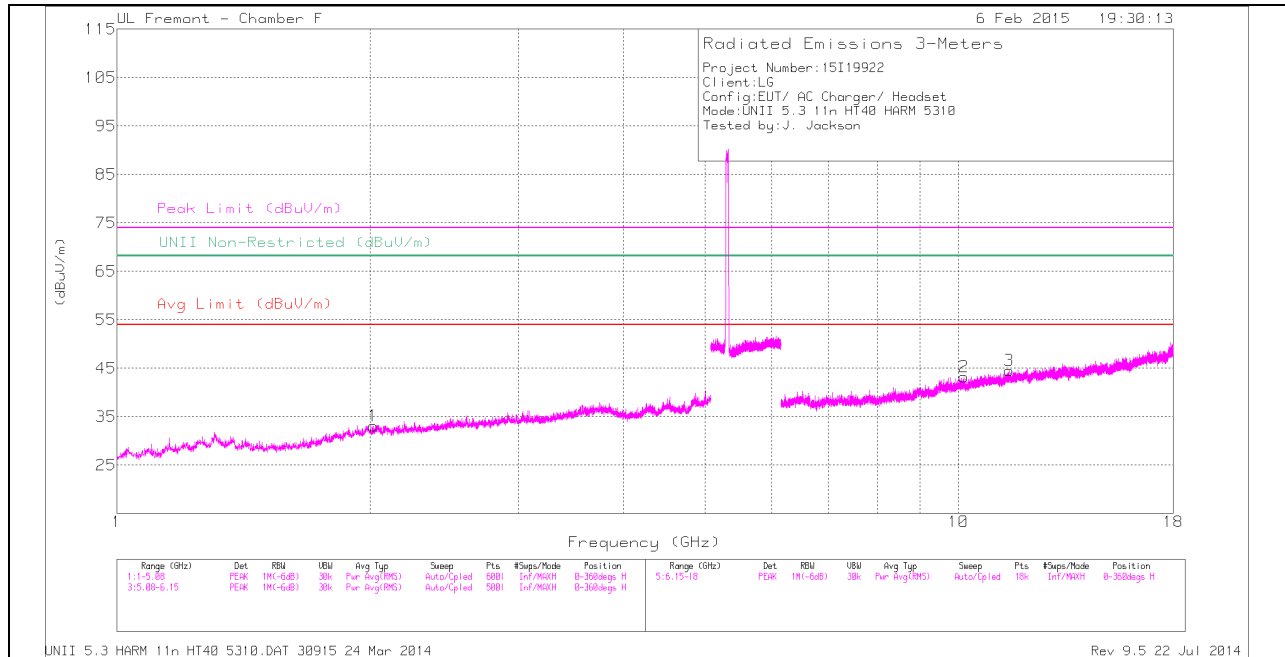
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.049	32.51	PK	31.8	-30.7	0	33.61	-	-	-	-	68.2	-34.59	0-360	100	H
2	* 3.747	32.83	PK	34.6	-29.4	0	38.03	-	-	74	-35.97	-	-	0-360	100	H
4	2.089	33.73	PK	31.8	-31	0	34.53	-	-	-	-	68.2	-33.67	0-360	201	V
5	* 3.837	32.99	PK	34.2	-28.9	0	38.29	-	-	74	-35.71	-	-	0-360	201	V
3	8.648	29.39	PK	35.9	-23.8	0	41.49	-	-	-	-	68.2	-26.71	0-360	201	H
6	7.808	29.89	PK	35.7	-24.8	0	40.79	-	-	-	-	68.2	-27.41	0-360	101	V

PK - Peak detector

*RADIATED EMISSIONS*

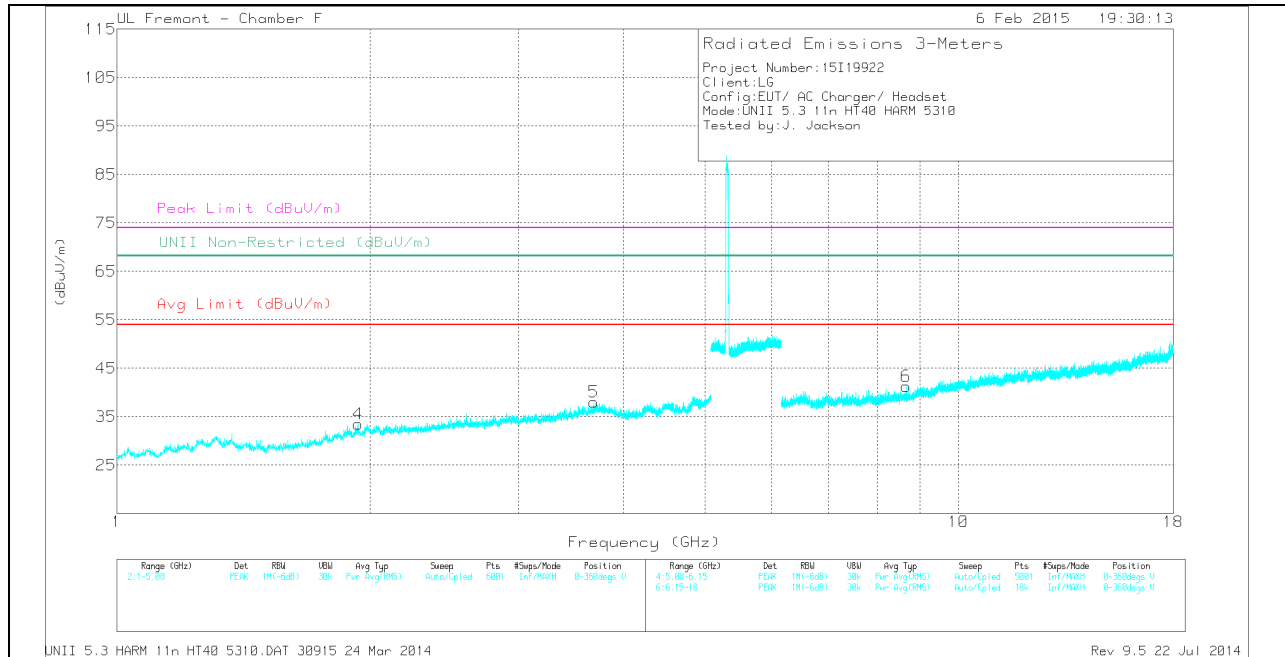
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.748	39.79	PK1	34.6	-29.4	0	44.99	-	-	74	-29.01	-	-	360	100	H
* 3.746	29.04	AD1	34.6	-29.4	.51	34.75	54	-19.25	-	-	-	-	360	100	H
* 3.838	39.28	PK1	34.2	-28.9	0	44.58	-	-	74	-29.42	-	-	360	202	V
* 3.838	28.45	AD1	34.2	-28.9	.51	34.26	54	-19.74	-	-	-	-	360	202	V

**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.

**HIGH CHANNEL 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**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.017	32.06	PK	31.7	-30.6	0	33.16	-	-	-	-	68.2	-35.04	0-360	201	H
4	1.934	33.2	PK	31.5	-31.2	0	33.5	-	-	-	-	68.2	-34.7	0-360	101	V
5	* 3.689	31.84	PK	34.9	-28.7	0	38.04	-	-	74	-35.96	-	-	0-360	201	V
2	10.153	27.8	PK	37.1	-21.7	0	43.2	-	-	-	-	68.2	-25	0-360	100	H
3	* 11.493	28.1	PK	38.4	-22	0	44.5	-	-	74	-29.5	-	-	0-360	100	H
6	8.659	29.28	PK	35.9	-23.9	0	41.28	-	-	-	-	68.2	-26.92	0-360	101	V

PK - Peak detector

*RADIATED EMISSIONS*

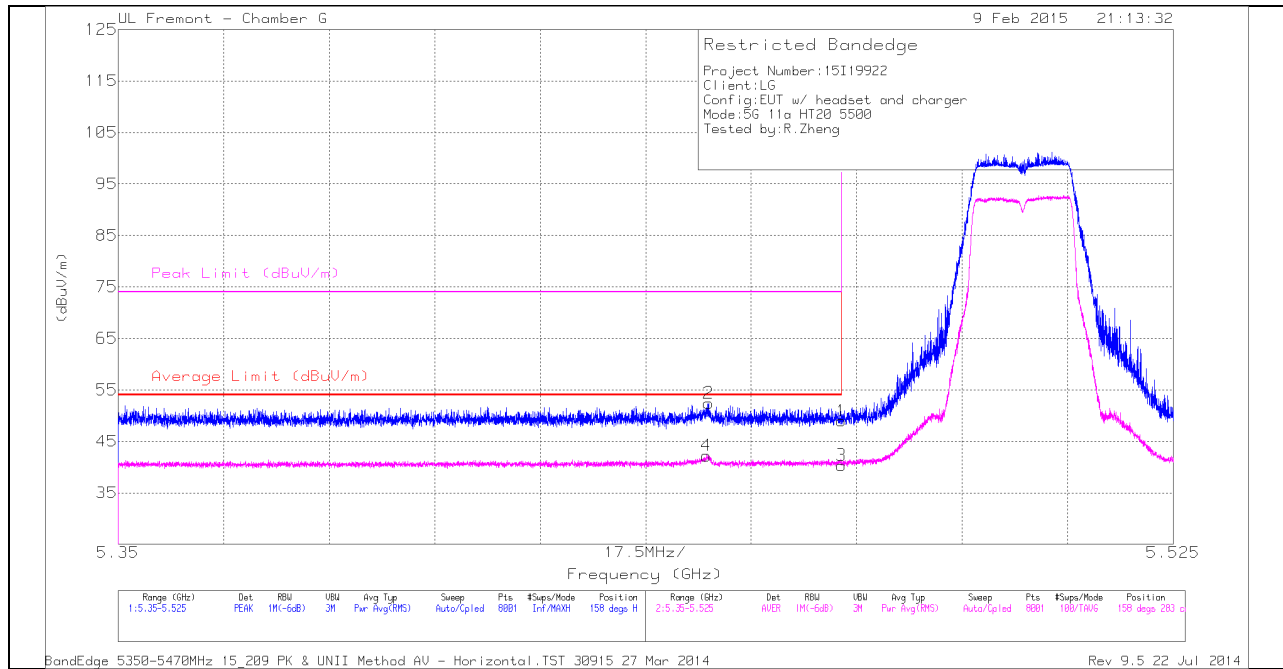
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.691	39.6	PK1	34.9	-28.7	0	45.8	-	-	74	-28.2	-	-	360	202	V
* 3.692	28.06	AD1	34.9	-28.7	.51	34.77	54	-19.23	-	-	-	-	360	202	V
* 11.493	35.38	PK1	38.4	-22	0	51.78	-	-	74	-22.22	-	-	360	101	H
* 11.491	24.48	AD1	38.4	-22.1	.51	41.29	54	-12.71	-	-	-	-	360	101	H

### 10.3. 5.5-5.6 GHz

#### 10.3.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.5 GHz BAND

#### RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

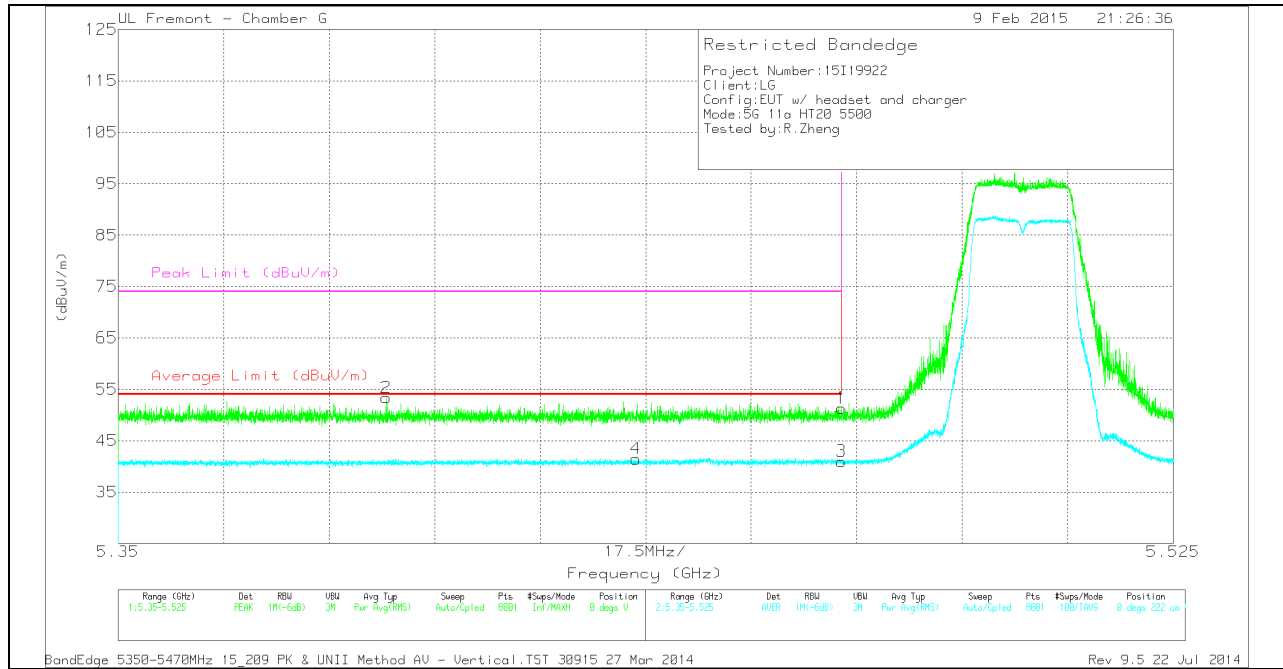
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.448	41.32	PK	34.7	-23.6	0	52.42	-	-	74	-21.58	158	283	H
4	* 5.448	31.11	RMS	34.7	-23.6	.22	42.43	54	-11.57	-	-	158	283	H
1	5.47	37.88	PK	34.7	-23.6	0	48.98	-	-	74	-25.02	158	283	H
3	5.47	29.23	RMS	34.7	-23.6	.22	40.55	54	-13.45	-	-	158	283	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 5.394	42.38	PK	34.6	-23.6	0	53.38	-	-	74	-20.62	0	222	V
4	* 5.436	30.48	RMS	34.6	-23.6	.22	41.7	54	-12.3	-	-	0	222	V
1	5.47	40.24	PK	34.7	-23.6	0	51.34	-	-	74	-22.66	0	222	V
3	5.47	29.87	RMS	34.7	-23.6	.22	41.19	54	-12.81	-	-	0	222	V

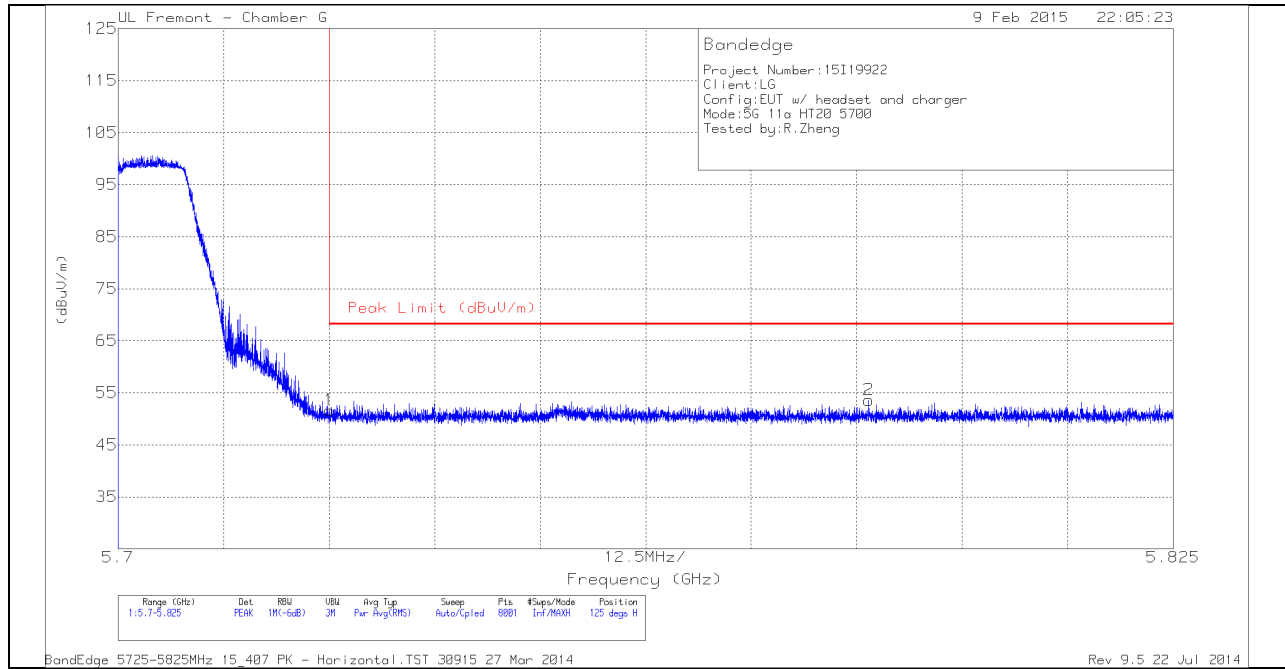
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK PLOT



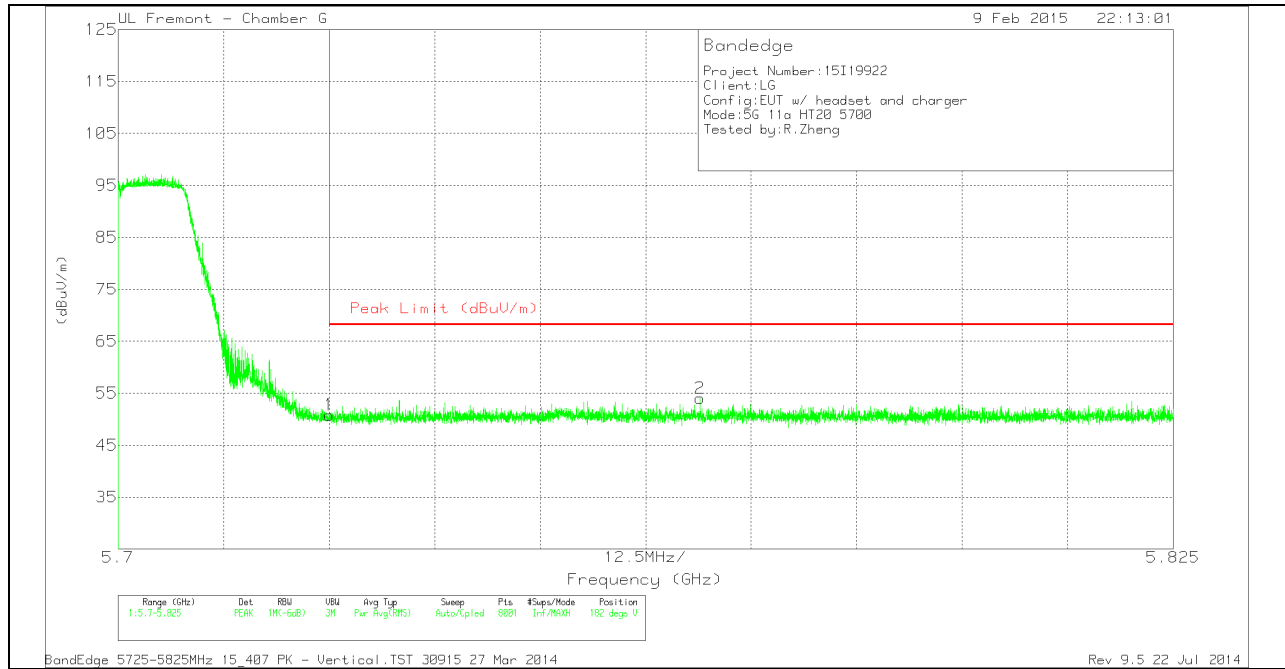
#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	40.38	PK	34.8	-23.5	0	51.68	68.2	-16.52	125	354	H
2	5.789	42.22	PK	34.9	-23.5	0	53.62	68.2	-14.58	125	354	H

PK - Peak detector



**VERTICAL PEAK PLOT**



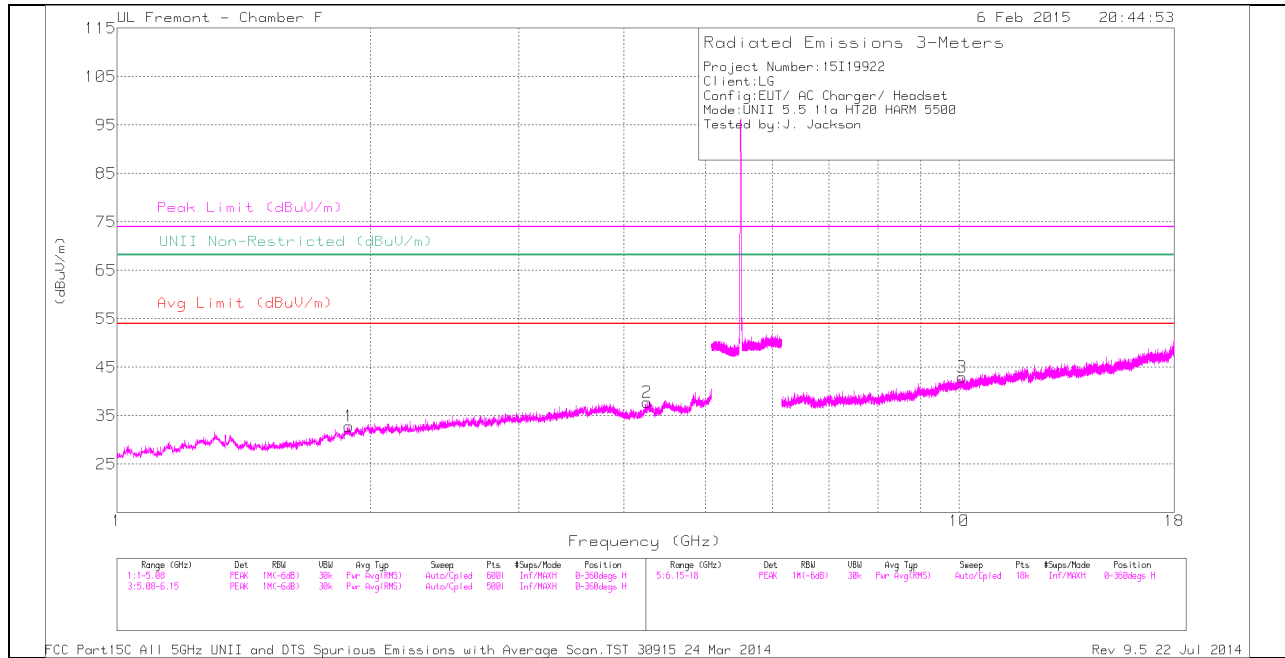
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/F Itr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.52	PK	34.8	-23.5	0	50.82	68.2	-17.38	182	396	V
2	5.769	42.74	PK	34.8	-23.5	0	54.04	68.2	-14.16	182	396	V

PK - Peak detector

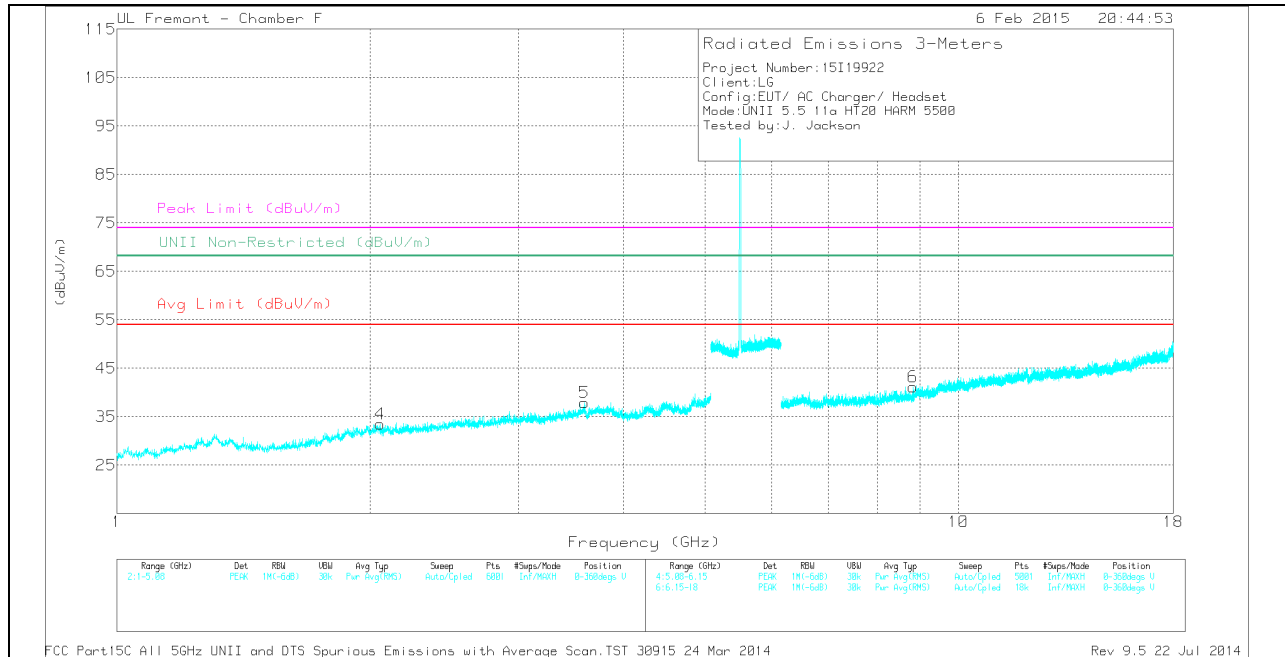
### HARMONICS AND SPURIOUS EMISSIONS

#### 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.

**LOW CHANNEL 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**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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	1.885	32.76	PK	31.2	-31.1	32.86	-	-	-	-	68.2	-35.34	0-360	101	H
2	* 4.261	30.83	PK	33.7	-26.7	37.83	-	-	74	-36.17	-	-	0-360	101	H
4	2.053	32.35	PK	31.8	-30.7	33.45	-	-	-	-	68.2	-34.75	0-360	201	V
5	* 3.591	32.1	PK	34.9	-29.1	37.9	-	-	74	-36.1	-	-	0-360	201	V
3	10.074	27	PK	37.2	-21.2	43	-	-	-	-	68.2	-25.2	0-360	101	H
6	8.827	29.15	PK	36	-24	41.15	-	-	-	-	68.2	-27.05	0-360	201	V

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

PK - Peak detector

*RADIATED EMISSIONS*

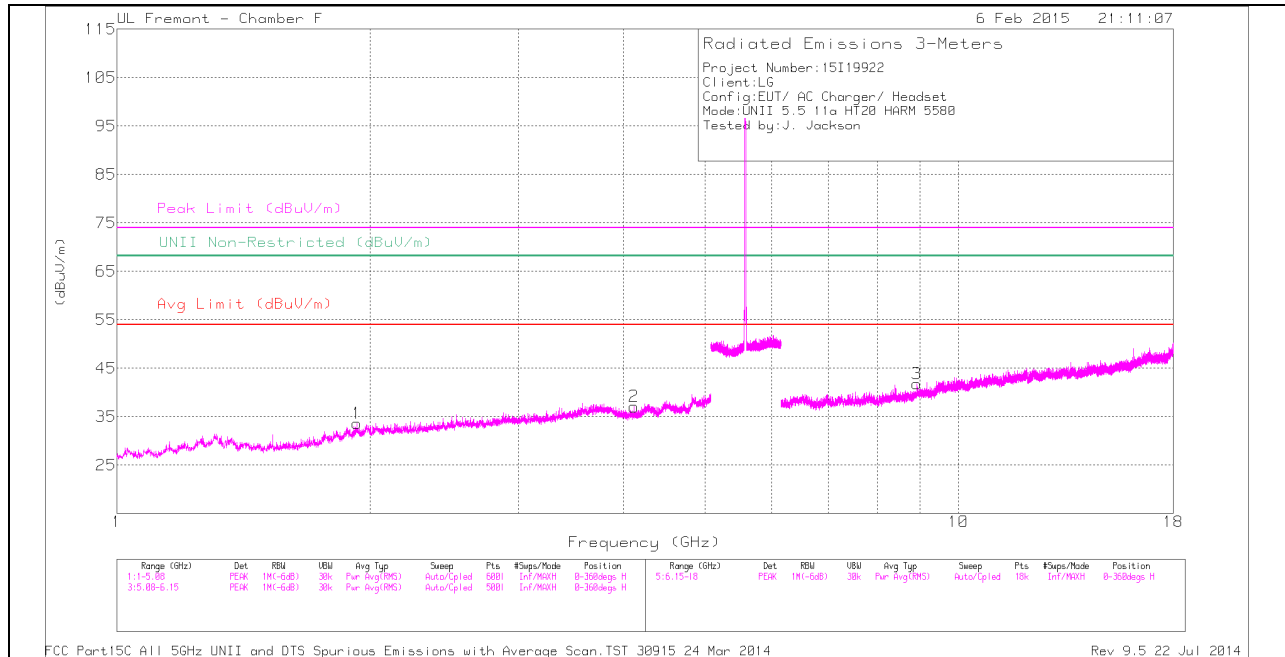
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/Ftr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.261	38.21	PK1	33.7	-26.7	45.21	-	-	74	-28.79	-	-	360	100	H
* 4.262	27.34	AD1	33.7	-26.7	34.34	54	-19.66	-	-	-	-	360	100	H
* 3.592	39.48	PK1	34.9	-29.1	45.28	-	-	74	-28.72	-	-	360	202	V
* 3.591	28.2	AD1	34.9	-29.1	34	54	-20	-	-	-	-	360	202	V

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

PK1 - KDB789033 Method: Peak

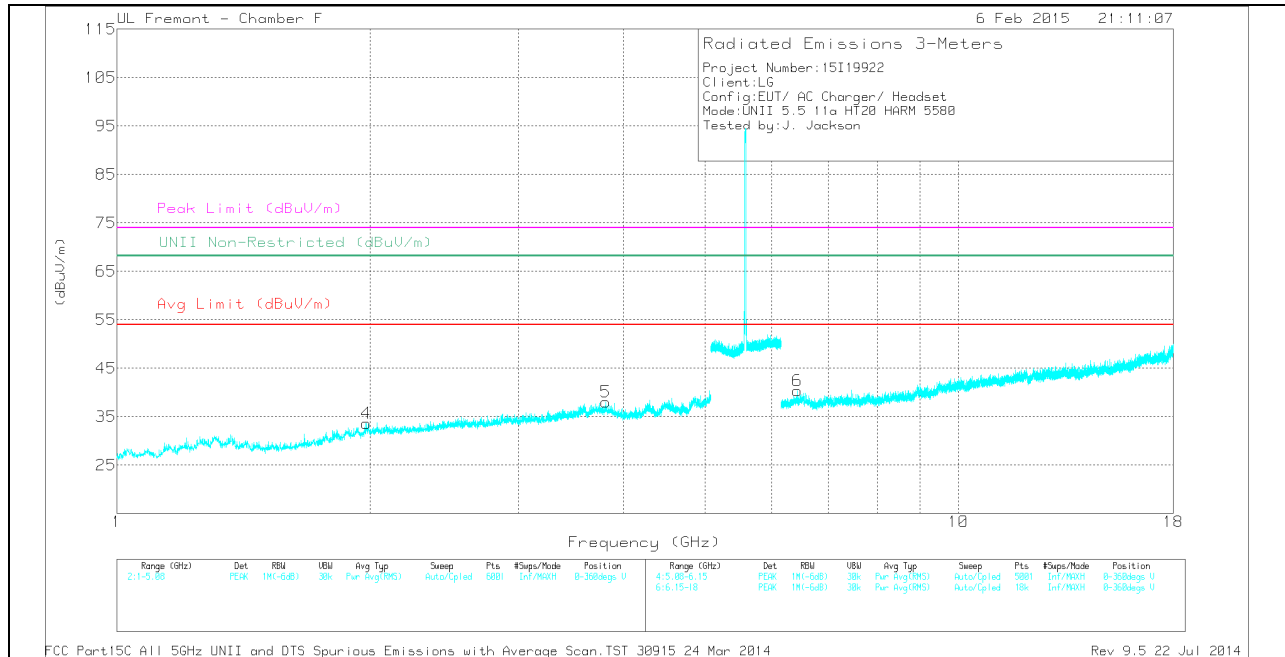
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**MID CHANNEL 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**

*TRACE MARKERS*

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	1.928	33.44	PK	31.5	-31.3	0	33.64	-	-	-	-	68.2	-34.56	0-360	201	H
2	* 4.118	31.77	PK	33.7	-28.4	0	37.07	-	-	74	-36.93	-	-	0-360	201	H
4	1.979	32.87	PK	31.6	-30.8	0	33.67	-	-	-	-	68.2	-34.53	0-360	201	V
5	* 3.806	32.8	PK	34.4	-29.2	0	38	-	-	74	-36	-	-	0-360	201	V
3	8.921	28.55	PK	36.1	-22.8	0	41.85	-	-	-	-	68.2	-26.35	0-360	100	H
6	6.432	31.64	PK	35.6	-26.9	0	40.34	-	-	-	-	68.2	-27.86	0-360	201	V

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

PK - Peak detector

*RADIATED EMISSIONS*

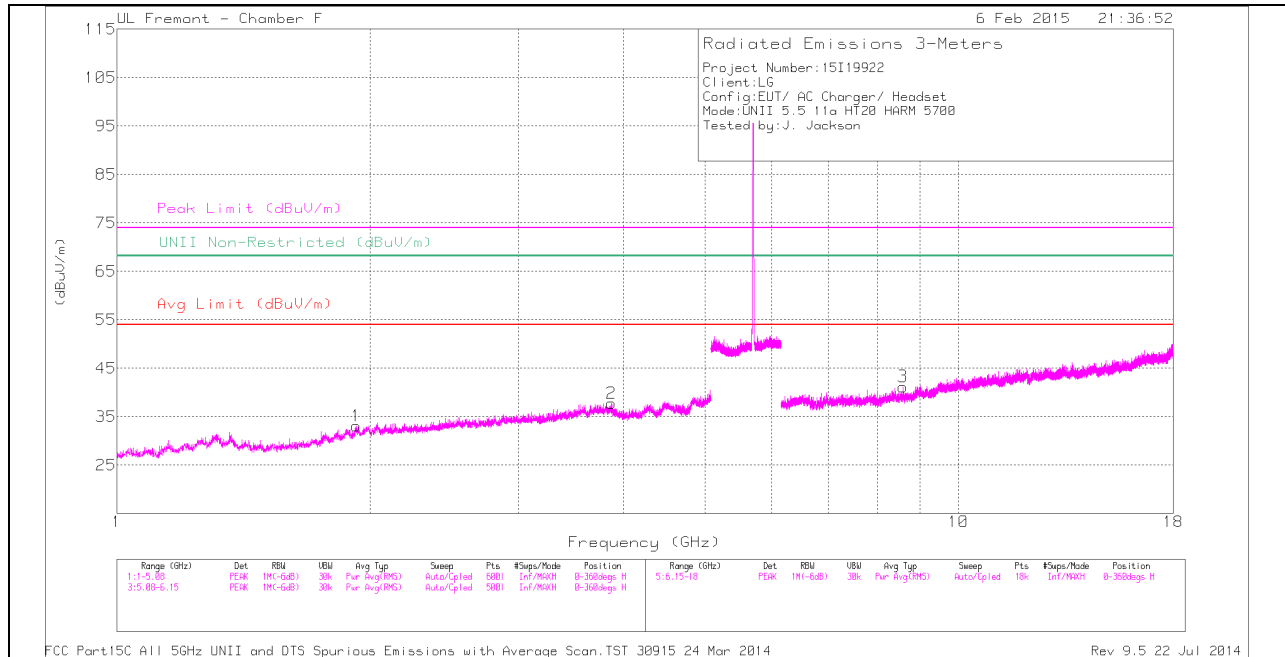
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.118	38.71	PK1	33.7	-28.4	0	44.01	-	-	74	-29.99	-	-	360	202	H
* 4.118	28.01	AD1	33.7	-28.4	.22	33.53	54	-20.47	-	-	-	-	360	202	H
* 3.807	39.73	PK1	34.4	-29.2	0	44.93	-	-	74	-29.07	-	-	360	202	V
* 3.805	28.55	AD1	34.4	-29.2	.22	33.97	54	-20.03	-	-	-	-	360	202	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

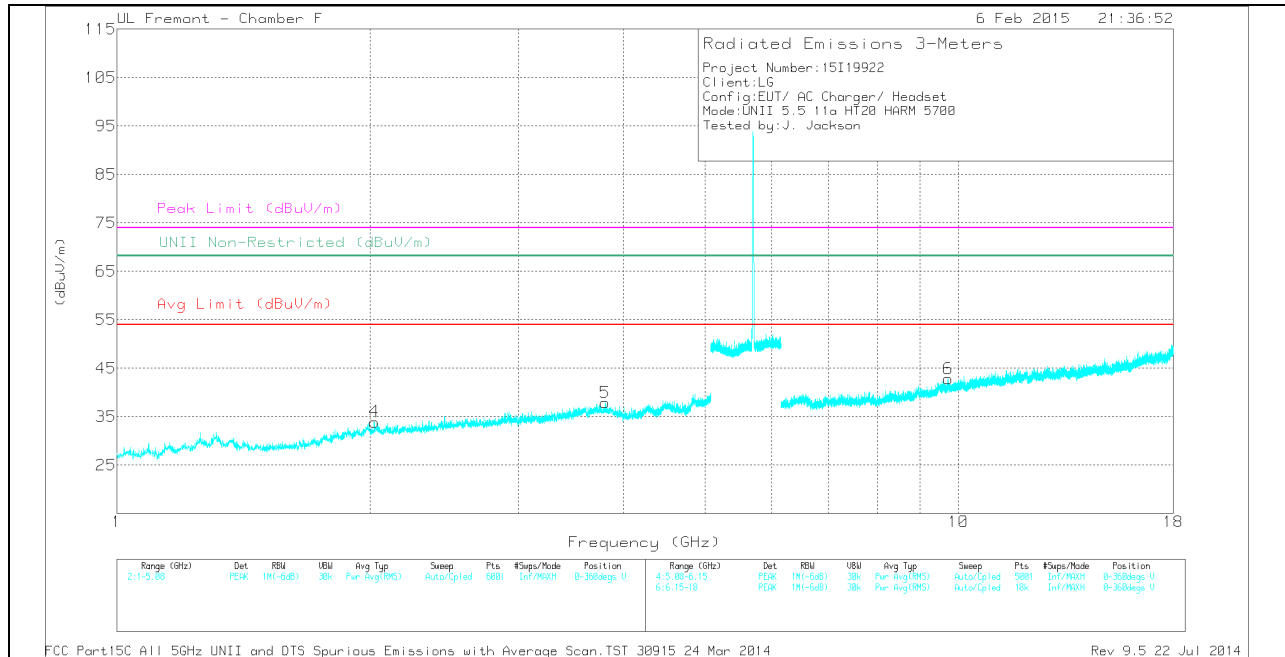
**HIGH CHANNEL HORIZONTAL**



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



**HIGH CHANNEL 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**

*TRACE MARKERS*

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	1.926	32.93	PK	31.5	-31.3	0	33.13	-	-	-	-	68.2	-35.07	0-360	201	H
2	* 3.869	32.54	PK	34.1	-28.9	0	37.74	-	-	74	-36.26	-	-	0-360	201	H
4	2.022	32.85	PK	31.7	-30.6	0	33.95	-	-	-	-	68.2	-34.25	0-360	101	V
5	* 3.802	32.76	PK	34.4	-29.2	0	37.96	-	-	74	-36.04	-	-	0-360	101	V
3	8.585	29.42	PK	35.8	-24	0	41.22	-	-	-	-	68.2	-26.98	0-360	100	H
6	9.728	27.84	PK	37.1	-22.1	0	42.84	-	-	-	-	68.2	-25.36	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
* 3.869	39.26	PK1	34.1	-28.9	0	44.46	-	-	74	-29.54	-	-	360	202	H
* 3.869	28.44	AD1	34.1	-28.9	.22	33.86	54	-20.14	-	-	-	-	360	202	H
* 3.801	39.8	PK1	34.4	-29.2	0	45	-	-	74	-29	-	-	360	101	V
* 3.8	28.72	AD1	34.4	-29.2	.22	34.14	54	-19.86	-	-	-	-	360	101	V

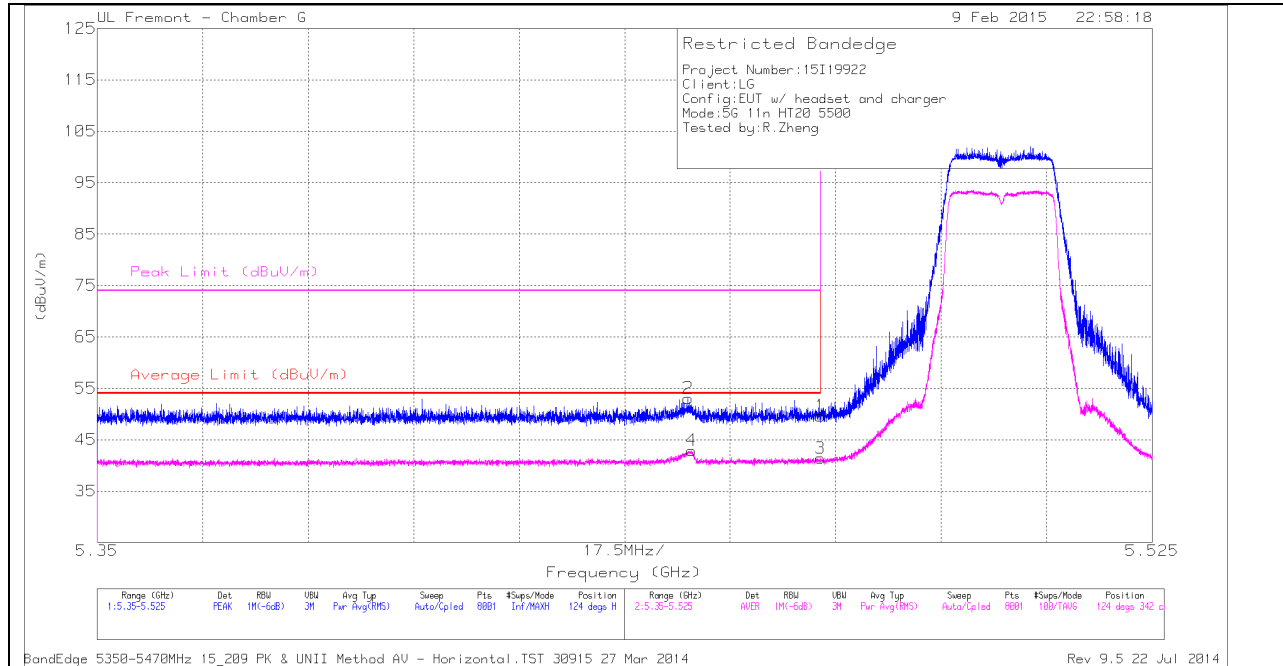
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

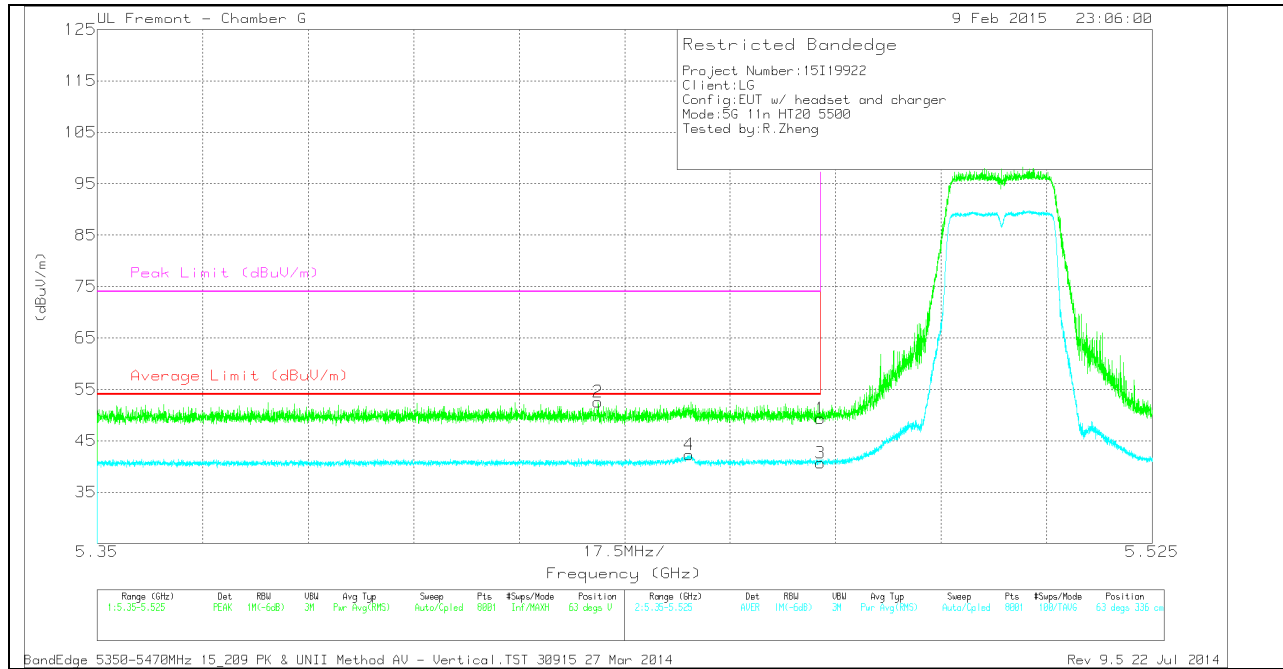
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.448	41.94	PK	34.7	-23.6	0	53.04	-	-	74	-20.96	124	342	H
4	* 5.449	31.59	RMS	34.7	-23.6	.23	42.92	54	-11.08	-	-	124	342	H
1	5.47	38.56	PK	34.7	-23.6	0	49.66	-	-	74	-24.34	124	342	H
3	5.47	30.09	RMS	34.7	-23.6	.23	41.42	54	-12.58	-	-	124	342	H

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

PK - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 5.433	41.54	PK	34.6	-23.6	0	52.54	-	-	74	-21.46	63	336	V
4	* 5.448	30.95	RMS	34.7	-23.6	.23	42.28	54	-11.72	-	-	63	336	V
1	5.47	38.26	PK	34.7	-23.6	0	49.36	-	-	74	-24.64	63	336	V
3	5.47	29.35	RMS	34.7	-23.6	.23	40.68	54	-13.32	-	-	63	336	V

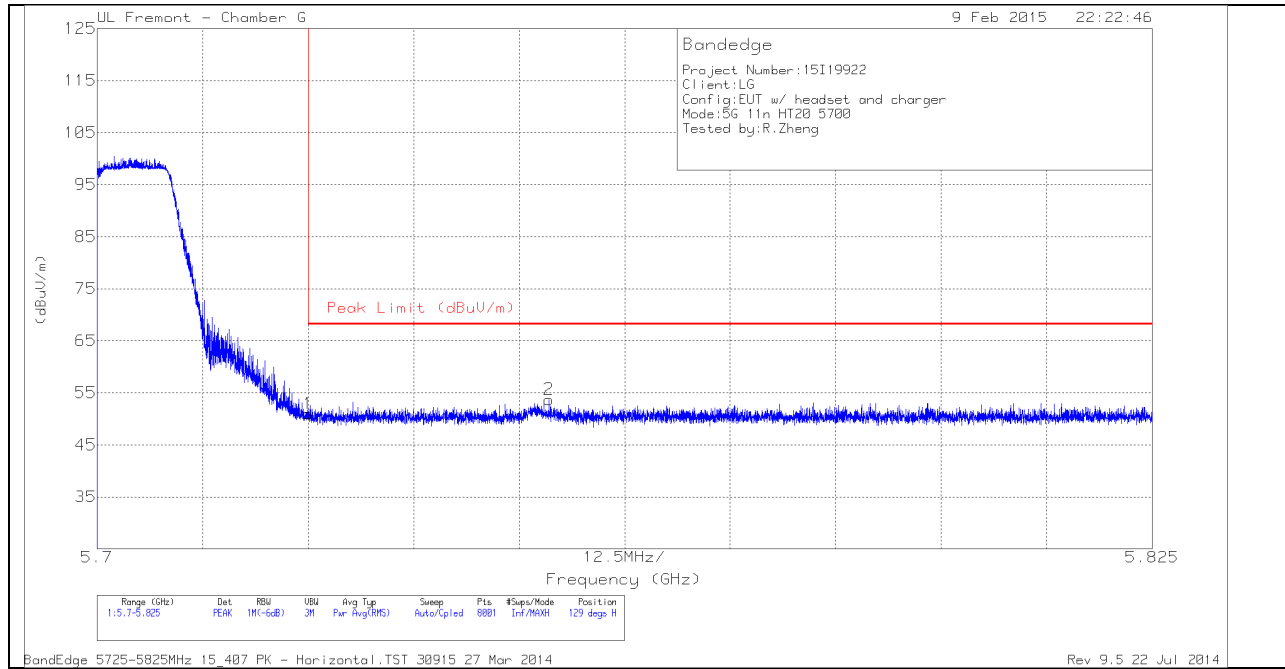
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK PLOT

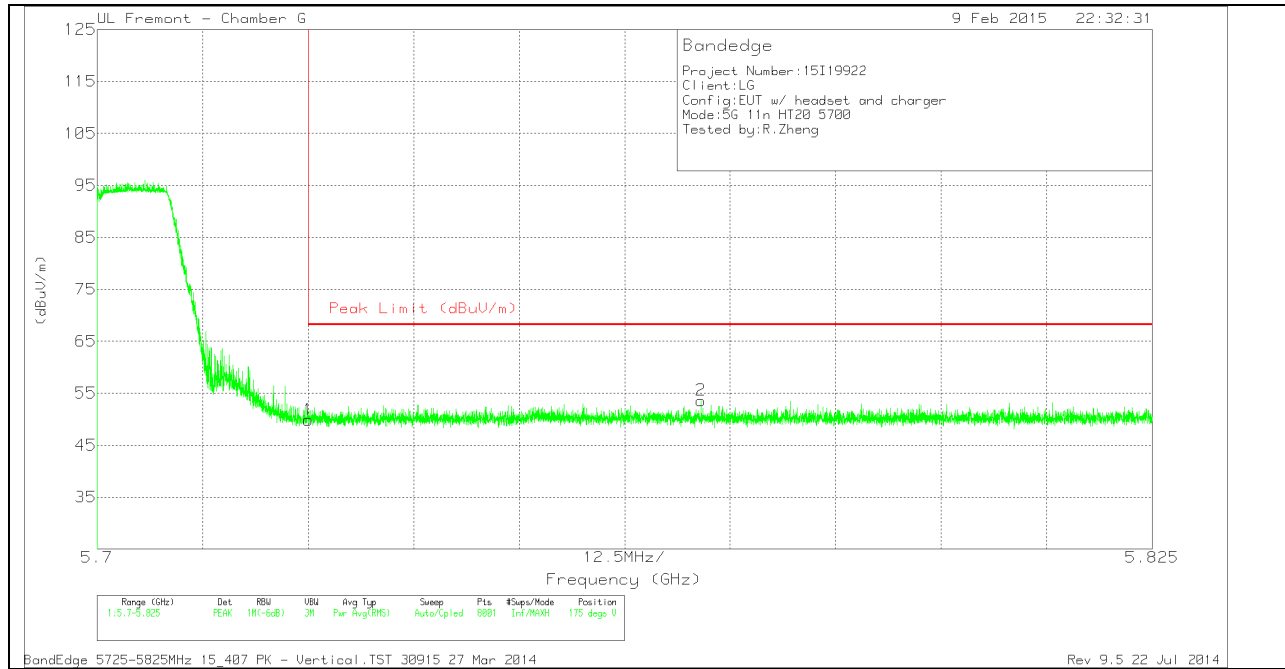


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	39.69	PK	34.8	-23.5	50.99	68.2	-17.21	129	320	H
2	5.754	42.41	PK	34.8	-23.5	53.71	68.2	-14.49	129	320	H

PK - Peak detector

**VERTICAL PEAK PLOT**

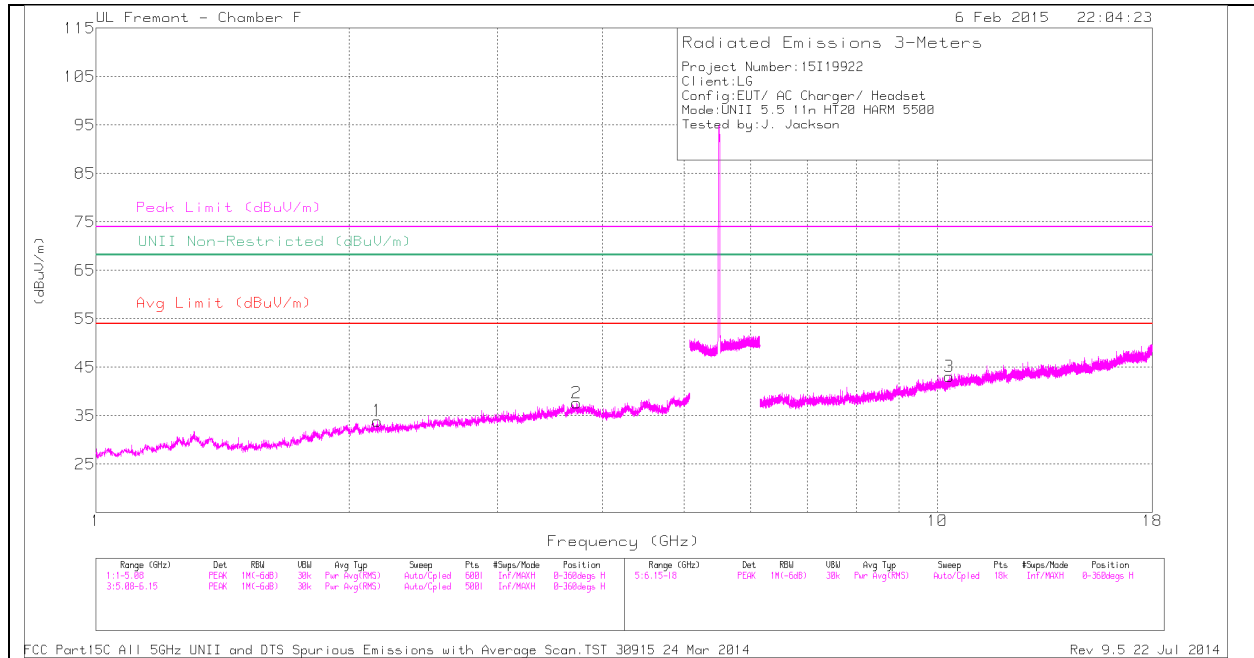


**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	38.58	PK	34.8	-23.5	49.88	68.2	-18.32	175	327	V
2	5.772	42.31	PK	34.8	-23.5	53.61	68.2	-14.59	175	327	V

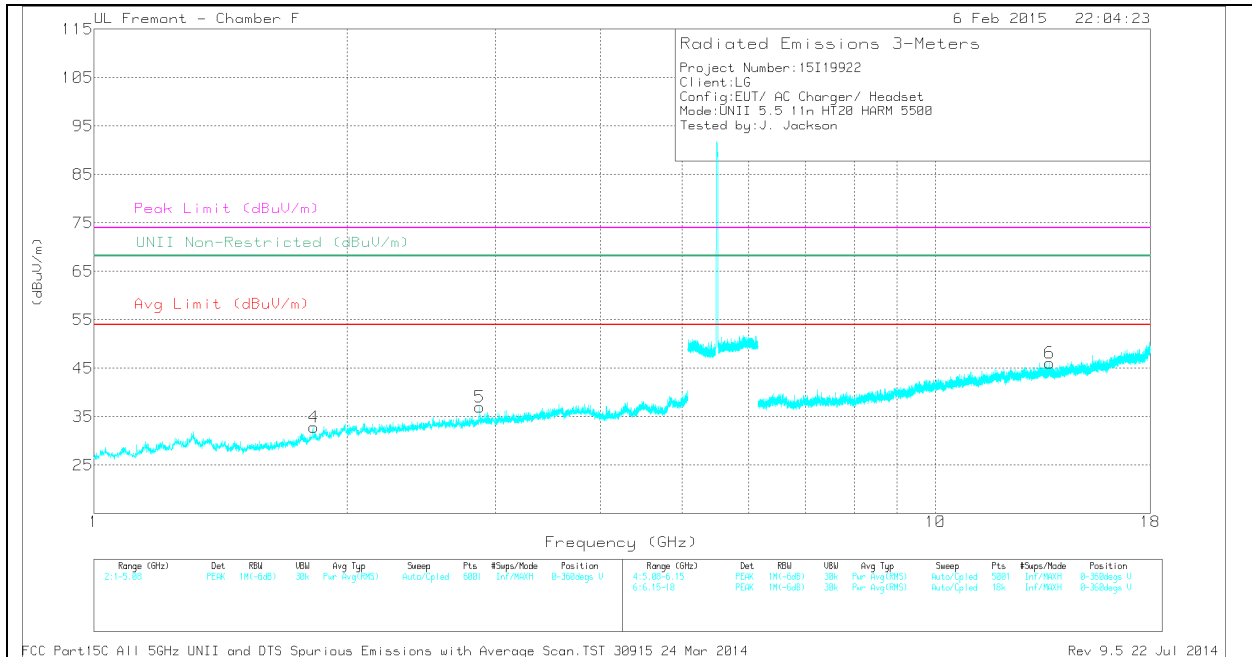
### HARMONICS AND SPURIOUS EMISSIONS

#### 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.

**LOW CHANNEL 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**

*TRACE MARKERS*

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	2.159	33.05	PK	31.8	-30.9	0	33.95	-	-	-	-	68.2	-34.25	0-360	201	H
2	* 3.724	32.08	PK	34.7	-29.1	0	37.68	-	-	74	-36.32	-	-	0-360	101	H
4	1.824	33.41	PK	30.5	-31.1	0	32.81	-	-	-	-	68.2	-35.39	0-360	101	V
5	* 2.875	33.42	PK	33.1	-29.5	0	37.02	-	-	74	-36.98	-	-	0-360	101	V
3	10.33	27.79	PK	37.2	-21.9	0	43.09	-	-	-	-	68.2	-25.11	0-360	201	H
6	13.67	29.67	PK	38.7	-22.3	0	46.07	-	-	-	-	68.2	-22.13	0-360	201	V

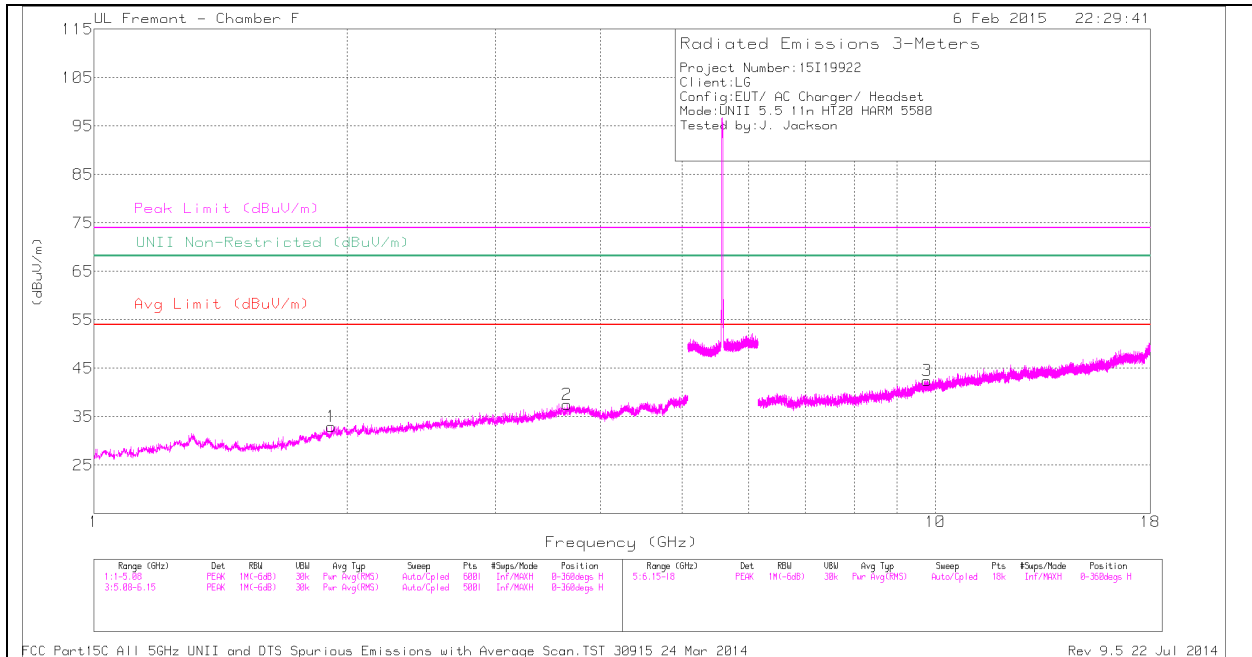
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK - Peak detector

*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
* 3.724	39.13	PK1	34.7	-29.1	0	44.73	-	-	74	-29.27	-	-	360	100	H
* 3.724	28.5	AD1	34.7	-29.1	.24	34.34	54	-19.66	-	-	-	-	360	100	H
* 2.875	39.72	PK1	33.1	-29.5	0	43.32	-	-	74	-30.68	-	-	360	100	V
* 2.872	28.45	AD1	33.1	-29.6	.24	32.19	54	-21.81	-	-	-	-	360	100	V

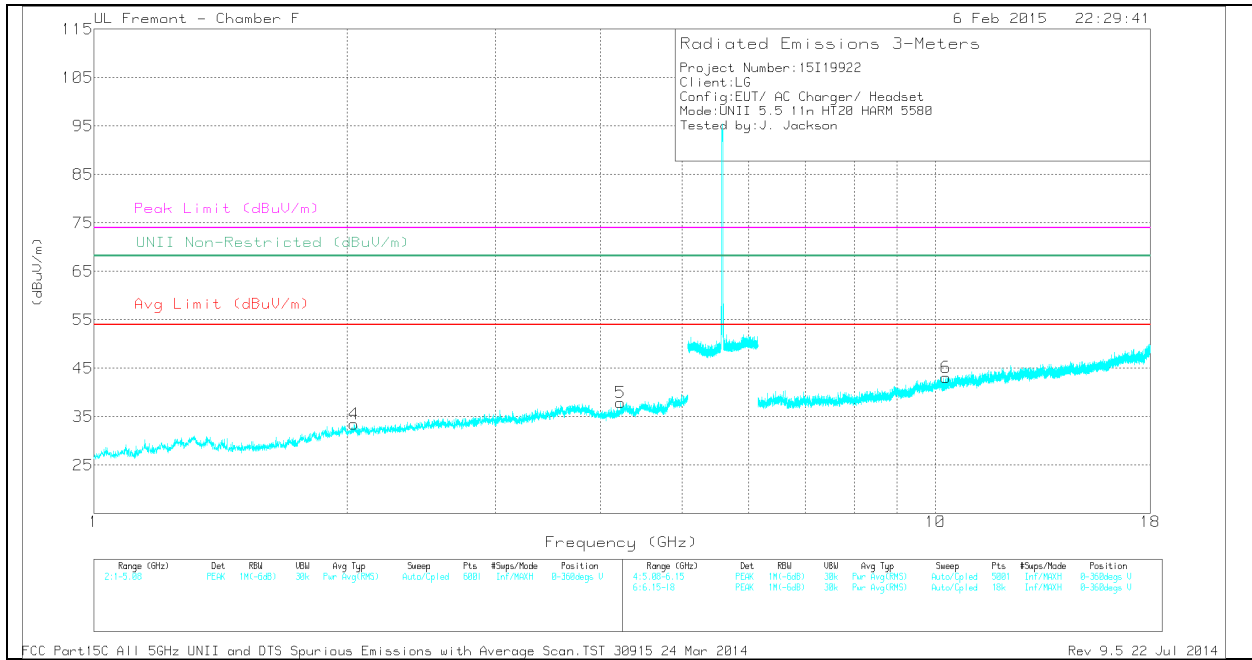
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK1 - KDB789033 Method: Peak  
 AD1 - KDB789033 Method: AD Primary Power Average

**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.

**MID CHANNEL 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**

*TRACE MARKERS*

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	1.915	32.77	PK	31.5	-31.3	0	32.97	-	-	-	-	68.2	-35.23	0-360	201	H
2	* 3.648	31.73	PK	34.9	-29.1	0	37.53	-	-	74	-36.47	-	-	0-360	100	H
4	2.038	32.47	PK	31.7	-30.7	0	33.47	-	-	-	-	68.2	-34.73	0-360	101	V
5	* 4.221	31.79	PK	33.6	-27.5	0	37.89	-	-	74	-36.11	-	-	0-360	201	V
3	9.781	27.5	PK	37.1	-22.2	0	42.4	-	-	-	-	68.2	-25.8	0-360	100	H
6	10.297	28.15	PK	37.2	-22.2	0	43.15	-	-	-	-	68.2	-25.05	0-360	201	V

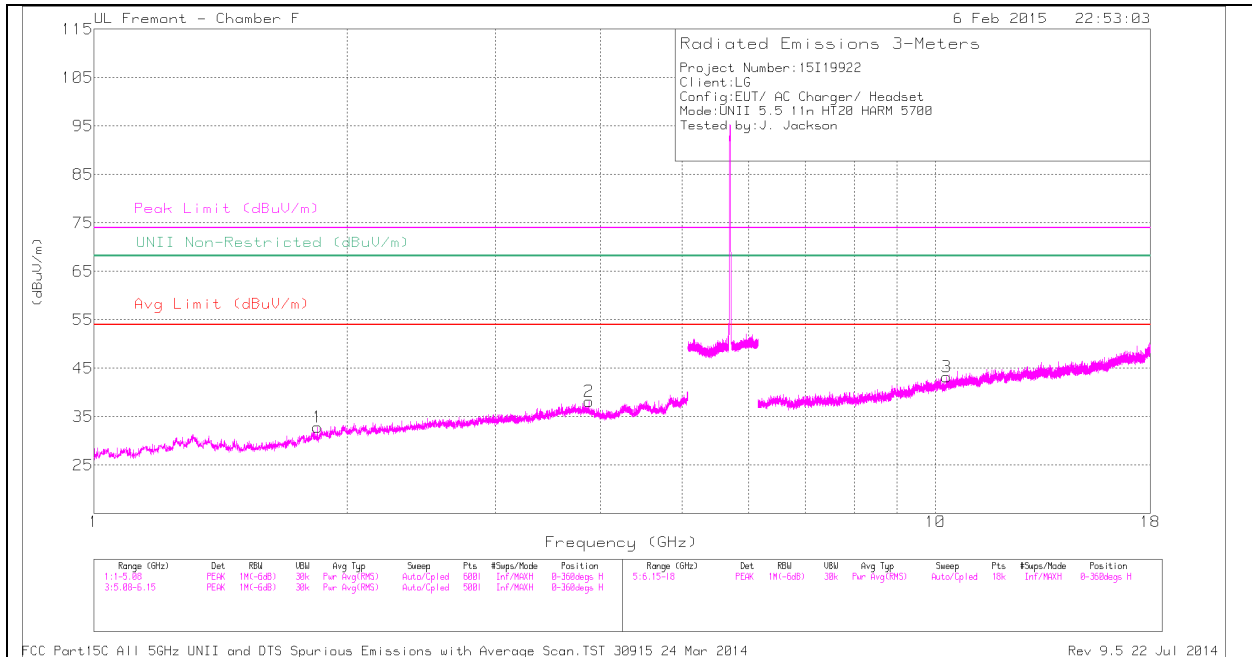
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK - Peak detector

*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
* 3.647	40.39	PK1	34.9	-29.1	0	46.19	-	-	74	-27.81	-	-	360	100	H
* 3.648	28.59	AD1	34.9	-29.1	.24	34.63	54	-19.37	-	-	-	-	360	100	H
* 4.222	39.13	PK1	33.6	-27.5	0	45.23	-	-	74	-28.77	-	-	360	202	V
* 4.221	27.54	AD1	33.6	-27.5	.24	33.88	54	-20.12	-	-	-	-	360	202	V

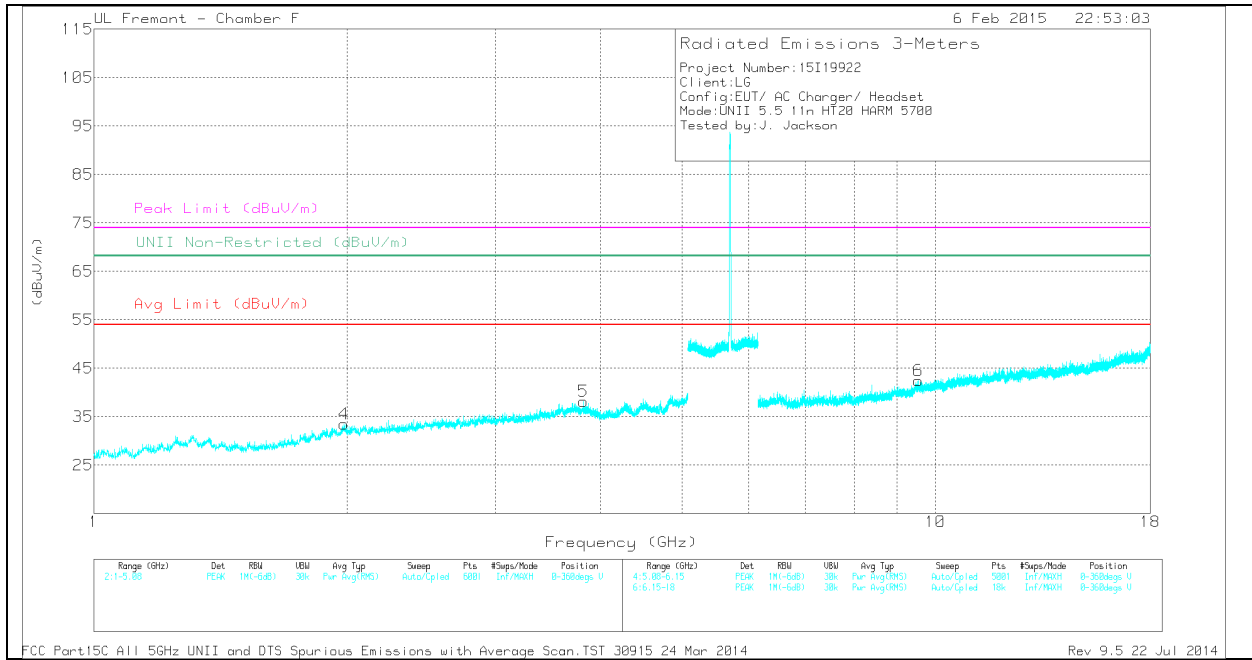
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK1 - KDB789033 Method: Peak  
 AD1 - KDB789033 Method: AD Primary Power Average

**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.

**HIGH CHANNEL 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**

*TRACE MARKERS*

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	1.843	33.25	PK	30.7	-31.1	0	32.85	-	-	-	-	68.2	-35.35	0-360	201	H
2	* 3.872	32.96	PK	34.1	-28.9	0	38.16	-	-	74	-35.84	-	-	0-360	201	H
4	1.982	32.69	PK	31.6	-30.8	0	33.49	-	-	-	-	68.2	-34.71	0-360	201	V
5	* 3.815	32.89	PK	34.3	-29	0	38.19	-	-	74	-35.81	-	-	0-360	201	V
3	10.302	28.12	PK	37.2	-22.1	0	43.22	-	-	-	-	68.2	-24.98	0-360	100	H
6	9.542	27.07	PK	36.9	-21.5	0	42.47	-	-	-	-	68.2	-25.73	0-360	101	V

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

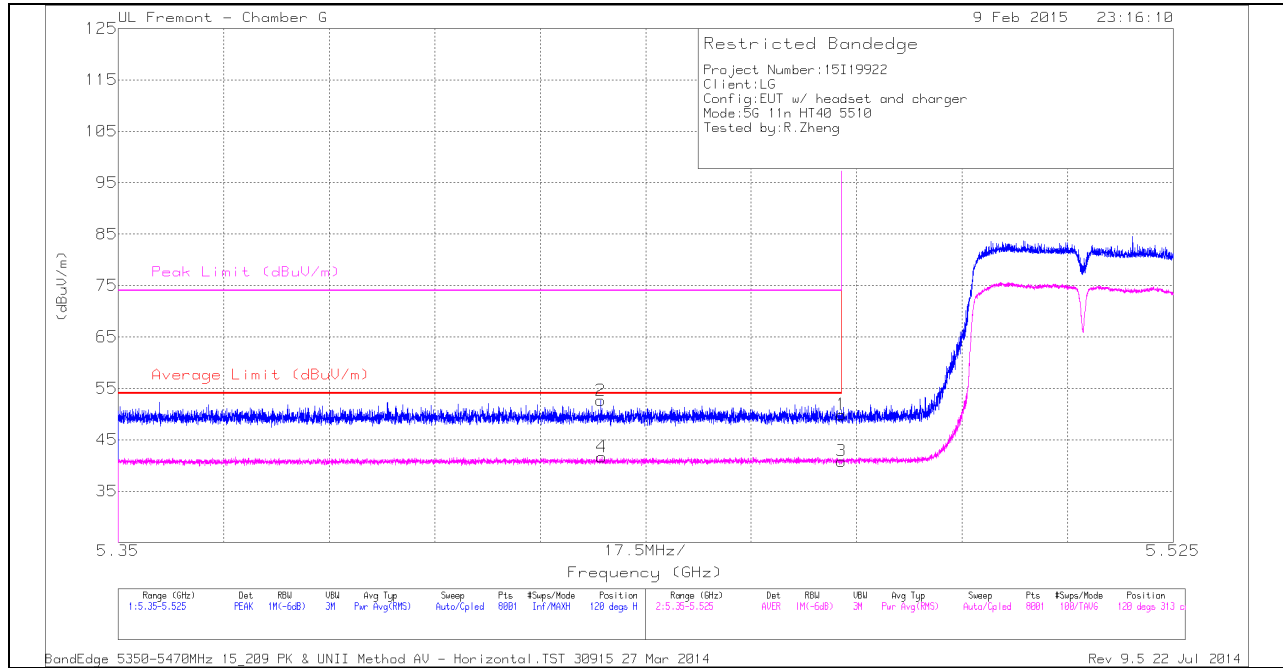
*RADIATED EMISSIONS*

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
* 3.871	39.13	PK1	34.1	-28.9	0	44.33	-	-	74	-29.67	-	-	360	202	H
* 3.871	28.48	AD1	34.1	-28.9	.24	33.92	54	-20.08	-	-	-	-	360	202	H
* 3.816	39.16	PK1	34.3	-29	0	44.46	-	-	74	-29.54	-	-	360	202	V
* 3.814	28.53	AD1	34.3	-29.1	.24	33.97	54	-20.03	-	-	-	-	360	202	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK1 - KDB789033 Method: Peak  
 AD1 - KDB789033 Method: AD Primary Power Average

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

**HORIZONTAL PEAK AND AVERAGE PLOT**



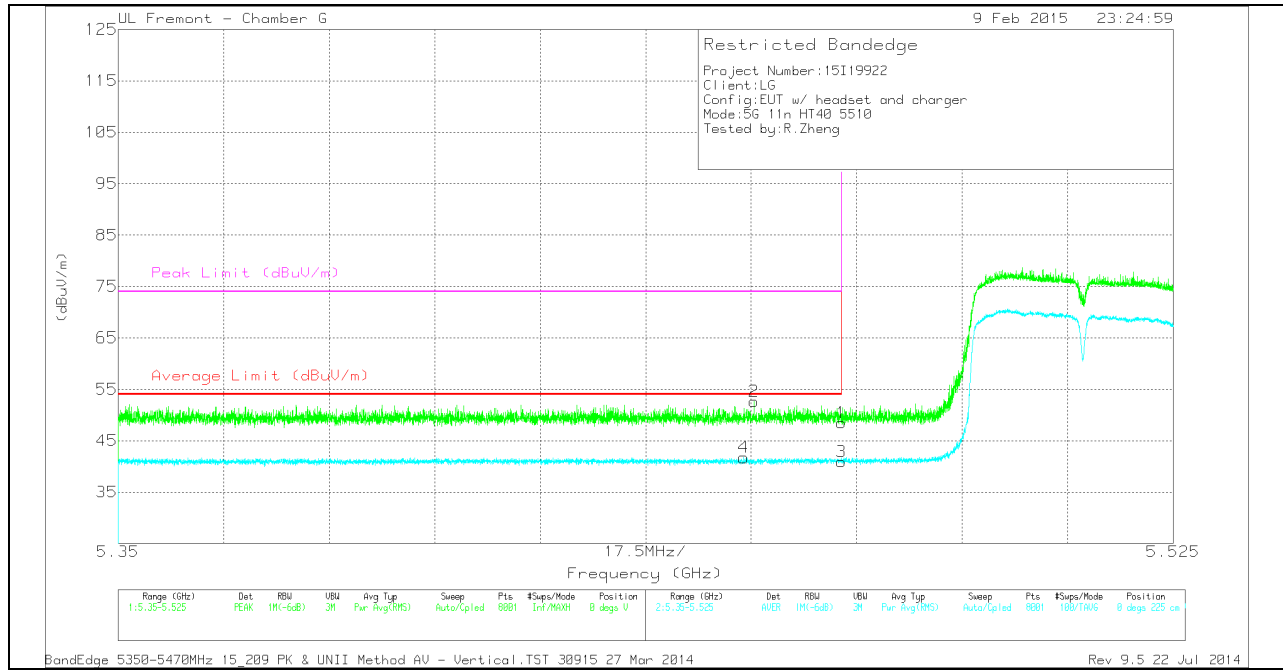
**HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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
2	* 5.43	41.62	PK	34.6	-23.6	0	52.62	-	-	74	-21.38	120	313	H
4	* 5.43	30.23	RMS	34.6	-23.6	.45	41.68	54	-12.32	-	-	120	313	H
1	5.47	38.79	PK	34.7	-23.6	0	49.89	-	-	74	-24.11	120	313	H
3	5.47	29.31	RMS	34.7	-23.6	.45	40.86	54	-13.14	-	-	120	313	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK - Peak detector  
 RMS - RMS detection



**VERTICAL PEAK AND AVERAGE PLOT**



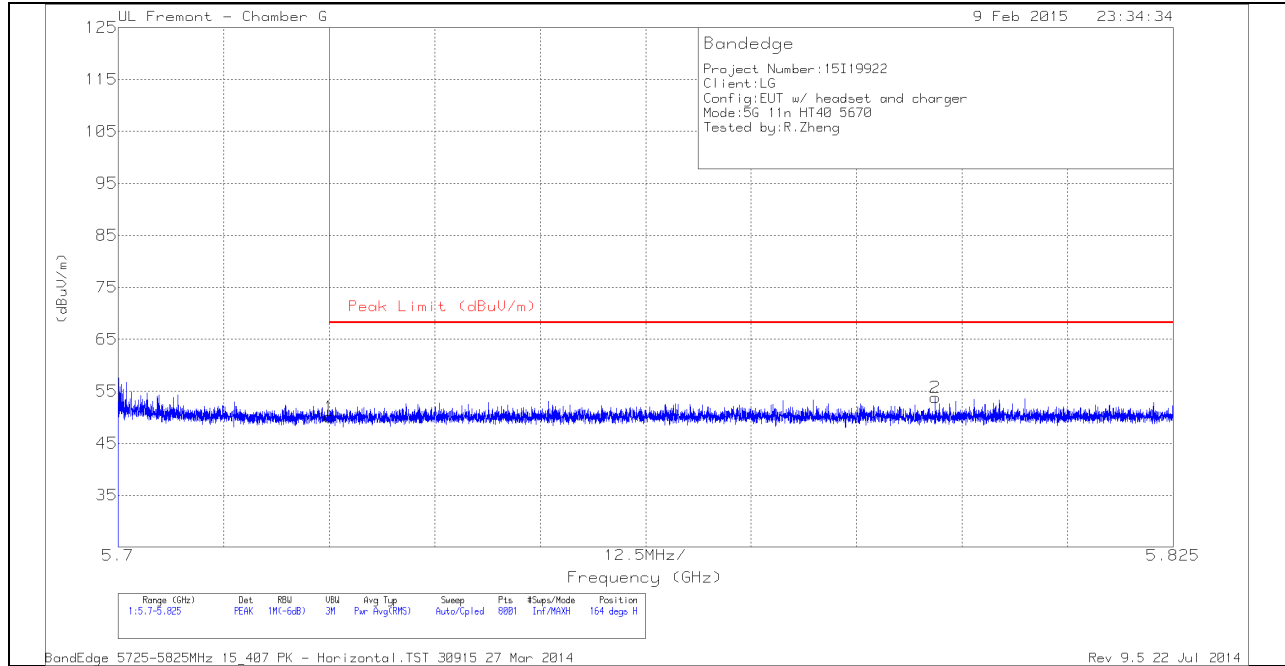
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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
2	* 5.455	41.54	PK	34.7	-23.6	0	52.64	-	-	74	-21.36	0	225	V
4	* 5.454	30.18	RMS	34.7	-23.6	.45	41.73	54	-12.27	-	-	0	225	V
1	5.47	37.38	PK	34.7	-23.6	0	48.48	-	-	74	-25.52	0	225	V
3	5.47	29.35	RMS	34.7	-23.6	.45	40.9	54	-13.1	-	-	0	225	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK - Peak detector  
 RMS - RMS detection

### AUTHORIZED BANDEGE (HIGH CHANNEL)

#### HORIZONTAL PEAK PLOT

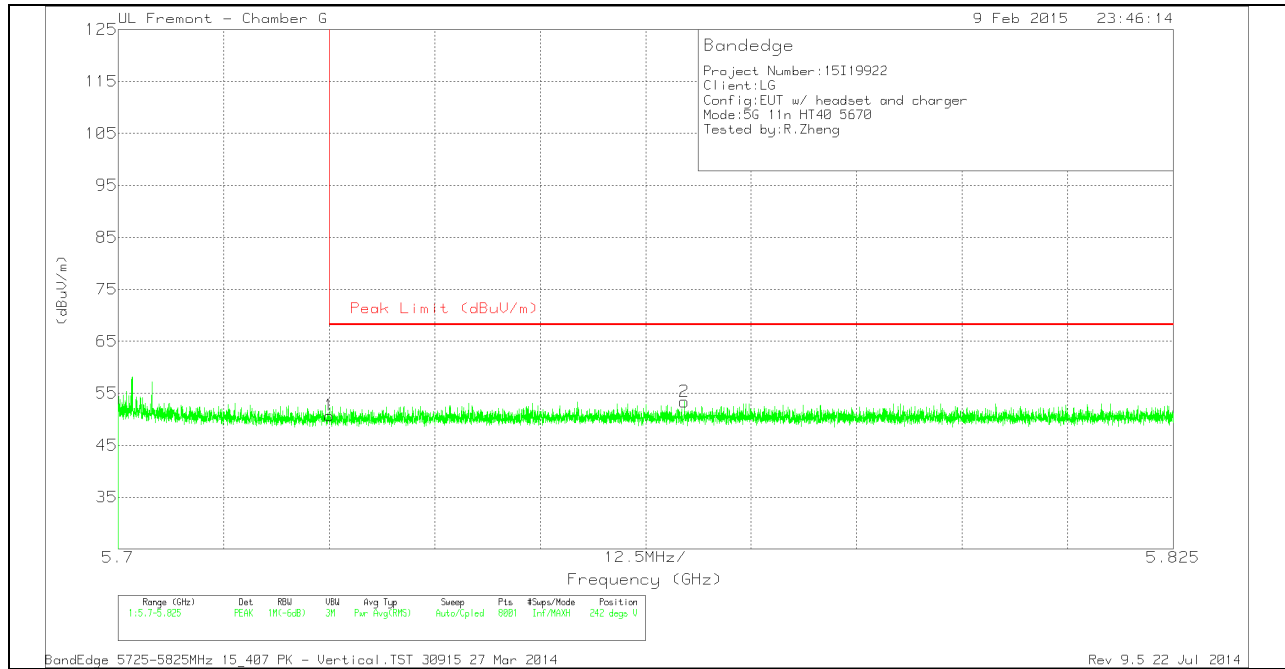


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	38.73	PK	34.8	-23.5	50.03	68.2	-18.17	164	322	H
2	5.797	42.46	PK	34.9	-23.6	53.76	68.2	-14.44	164	322	H

PK - Peak detector

**VERTICAL PEAK PLOT**



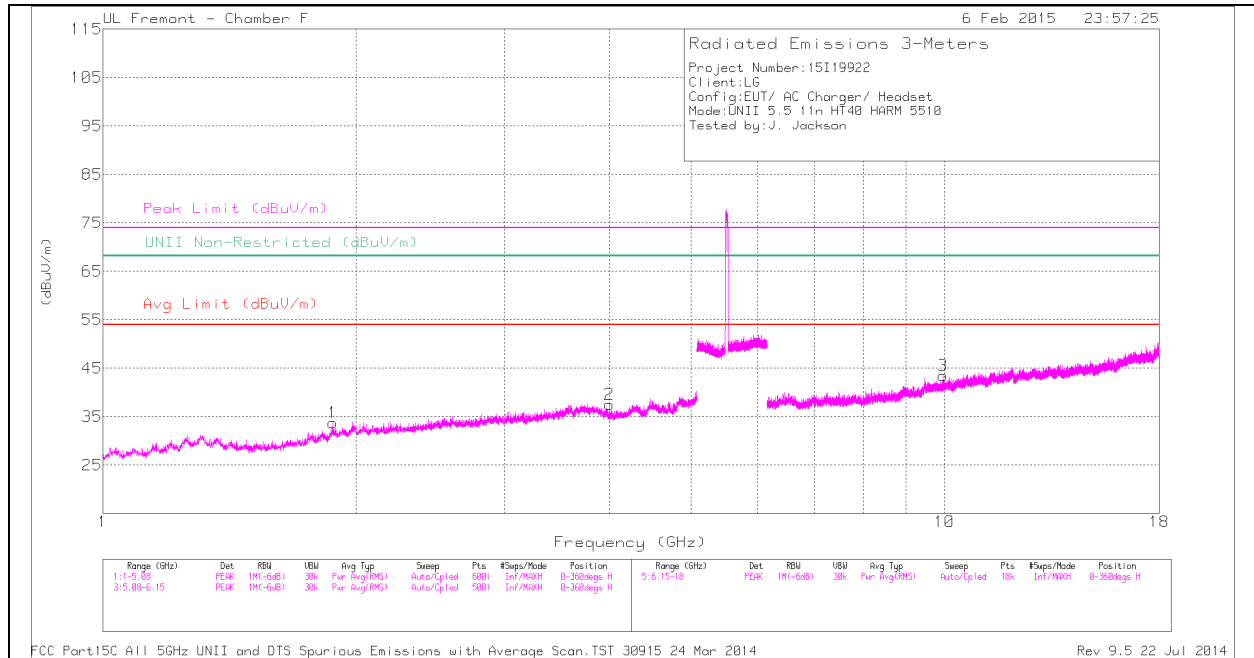
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.41	PK	34.8	-23.5	50.71	68.2	-17.49	242	213	V
2	5.767	42.09	PK	34.8	-23.5	53.39	68.2	-14.81	242	213	V

PK - Peak detector

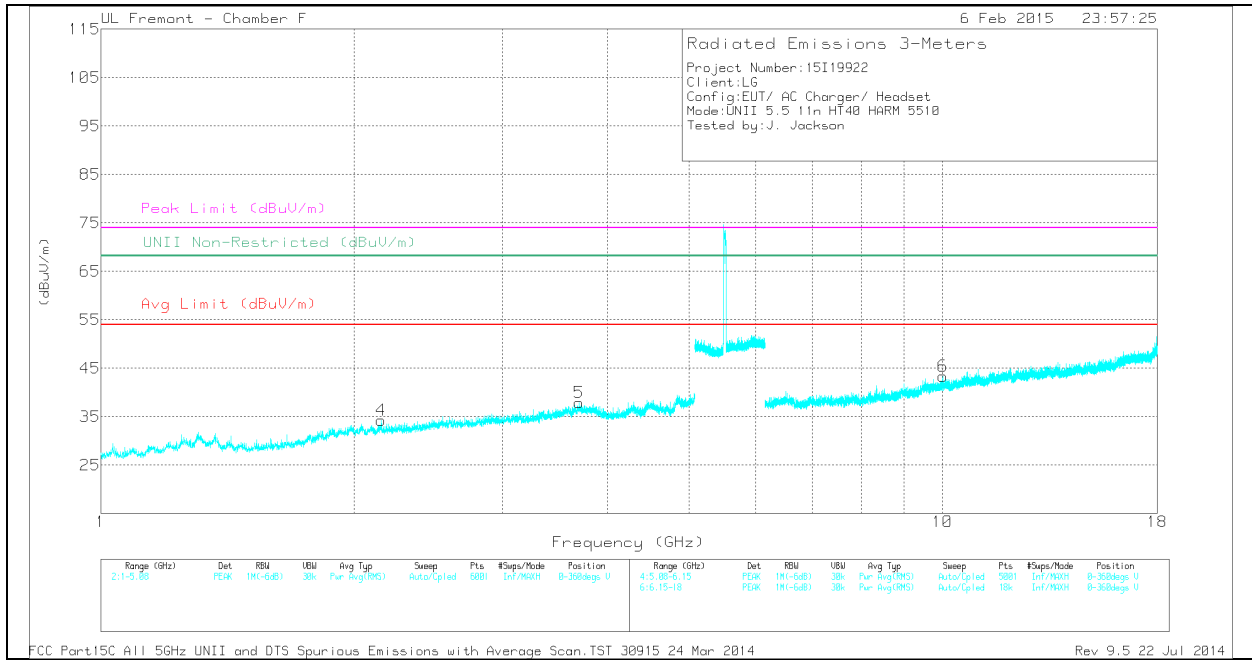
### HARMONICS AND SPURIOUS EMISSIONS

#### 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.

**LOW CHANNEL 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**

*TRACE MARKERS*

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	1.875	33.88	PK	31.1	-31.2	0	33.78	-	-	-	-	68.2	-34.42	0-360	100	H
2	* 4	32.36	PK	33.7	-28.5	0	37.56	-	-	74	-36.44	-	-	0-360	201	H
4	2.153	33.33	PK	31.8	-30.9	0	34.23	-	-	-	-	68.2	-33.97	0-360	201	V
5	* 3.702	31.81	PK	34.8	-28.7	0	37.91	-	-	74	-36.09	-	-	0-360	201	V
3	9.957	28.18	PK	37.2	-21.9	0	43.48	-	-	-	-	68.2	-24.72	0-360	201	H
6	10.019	27.7	PK	37.2	-21.5	0	43.4	-	-	-	-	68.2	-24.8	0-360	101	V

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

PK - Peak detector

*RADIATED EMISSIONS*

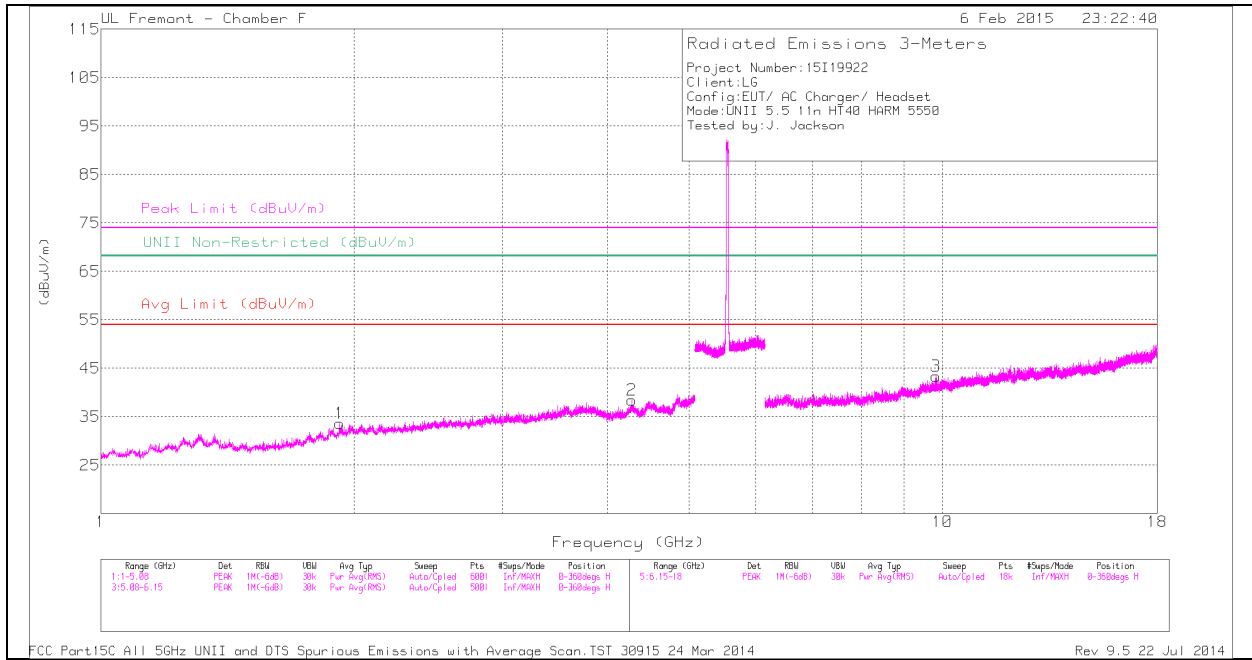
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.003	39.27	PK1	33.7	-28.5	0	44.47	-	-	74	-29.53	-	-	360	202	H
* 4.002	27.84	AD1	33.7	-28.5	.51	33.55	54	-20.45	-	-	-	-	360	202	H
* 3.705	39.23	PK1	34.8	-28.8	0	45.23	-	-	74	-28.77	-	-	360	202	V
* 3.704	28.38	AD1	34.8	-28.8	.51	34.89	54	-19.11	-	-	-	-	360	202	V

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

PK1 - KDB789033 Method: Peak

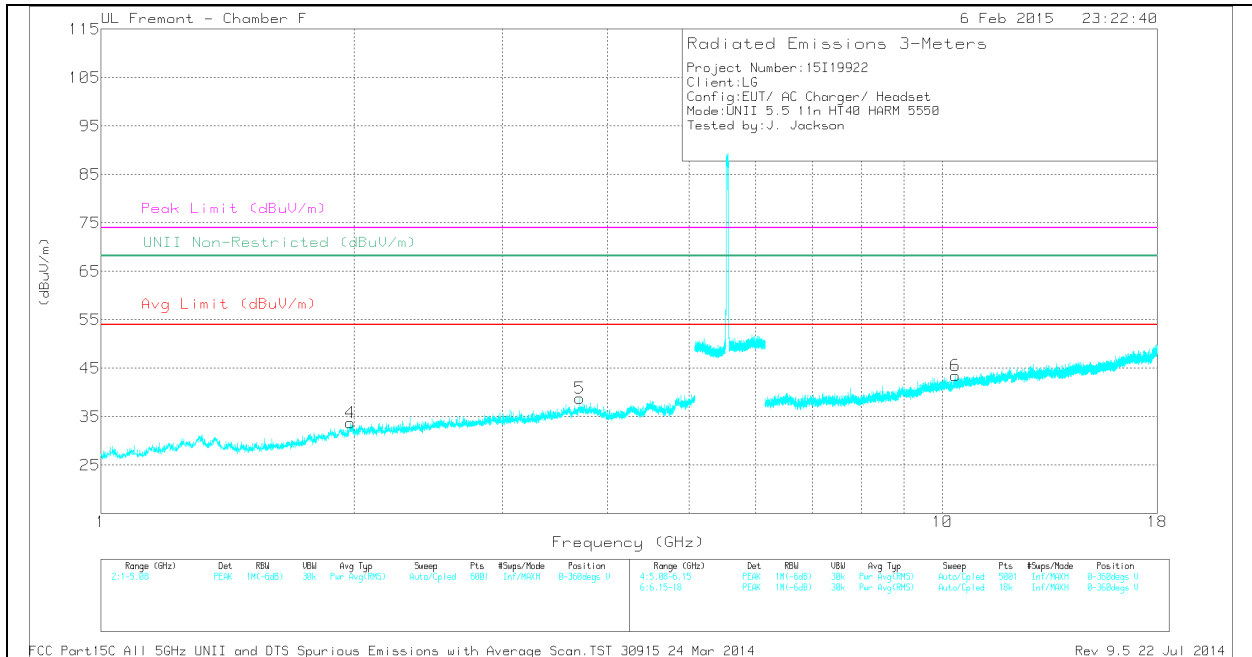
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**MID CHANNEL 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**

*TRACE MARKERS*

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.922	33.39	PK	31.5	-31.3	0	33.59	-	-	-	-	68.2	-34.61	0-360	100	H
2	* 4.277	31.59	PK	33.7	-26.9	0	38.39	-	-	74	-35.61	-	-	0-360	100	H
4	1.979	32.98	PK	31.6	-30.8	0	33.78	-	-	-	-	68.2	-34.42	0-360	201	V
5	* 3.704	32.81	PK	34.8	-28.8	0	38.81	-	-	74	-35.19	-	-	0-360	201	V
3	9.832	28.53	PK	37.1	-22.3	0	43.33	-	-	-	-	68.2	-24.87	0-360	201	H
6	10.364	27.65	PK	37.3	-21.5	0	43.45	-	-	-	-	68.2	-24.75	0-360	101	V

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

PK - Peak detector

*RADIATED EMISSIONS*

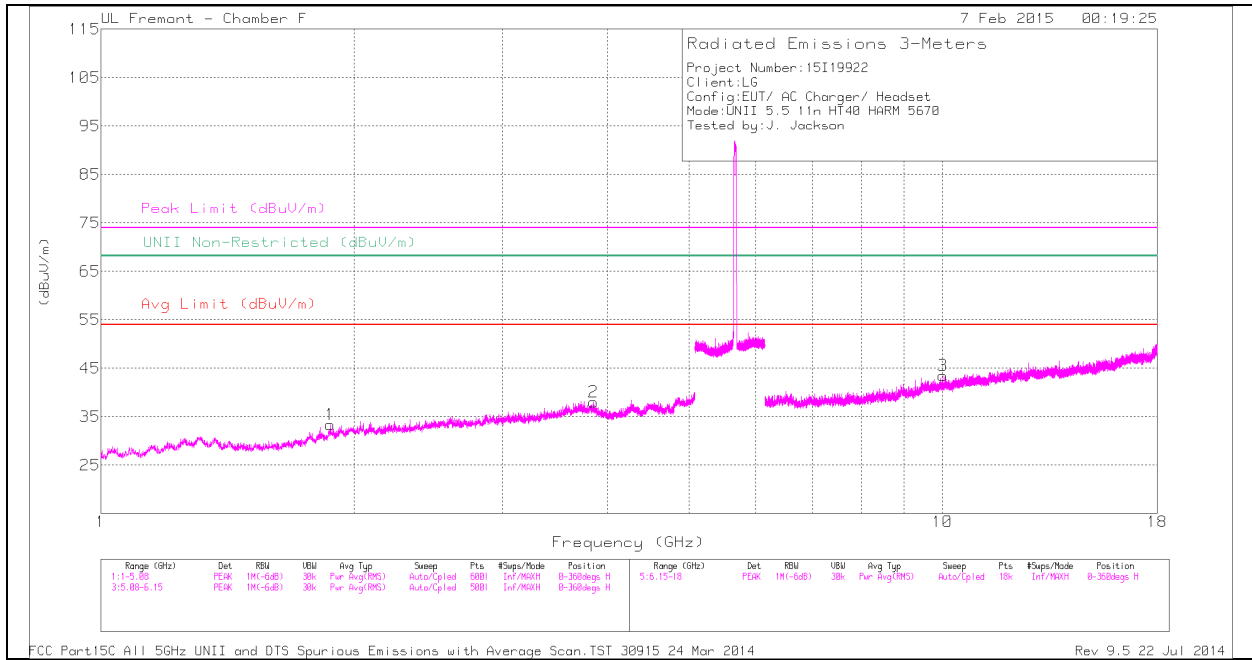
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.273	38.31	PK1	33.7	-26.8	0	45.21	-	-	74	-28.79	-	-	360	101	H
* 4.276	27.48	AD1	33.7	-26.9	.51	34.79	54	-19.21	-	-	-	-	360	101	H
* 3.708	39.21	PK1	34.8	-28.8	0	45.21	-	-	74	-28.79	-	-	360	202	V
* 3.707	28.34	AD1	34.8	-28.8	.51	34.85	54	-19.15	-	-	-	-	360	202	V

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

PK1 - KDB789033 Method: Peak

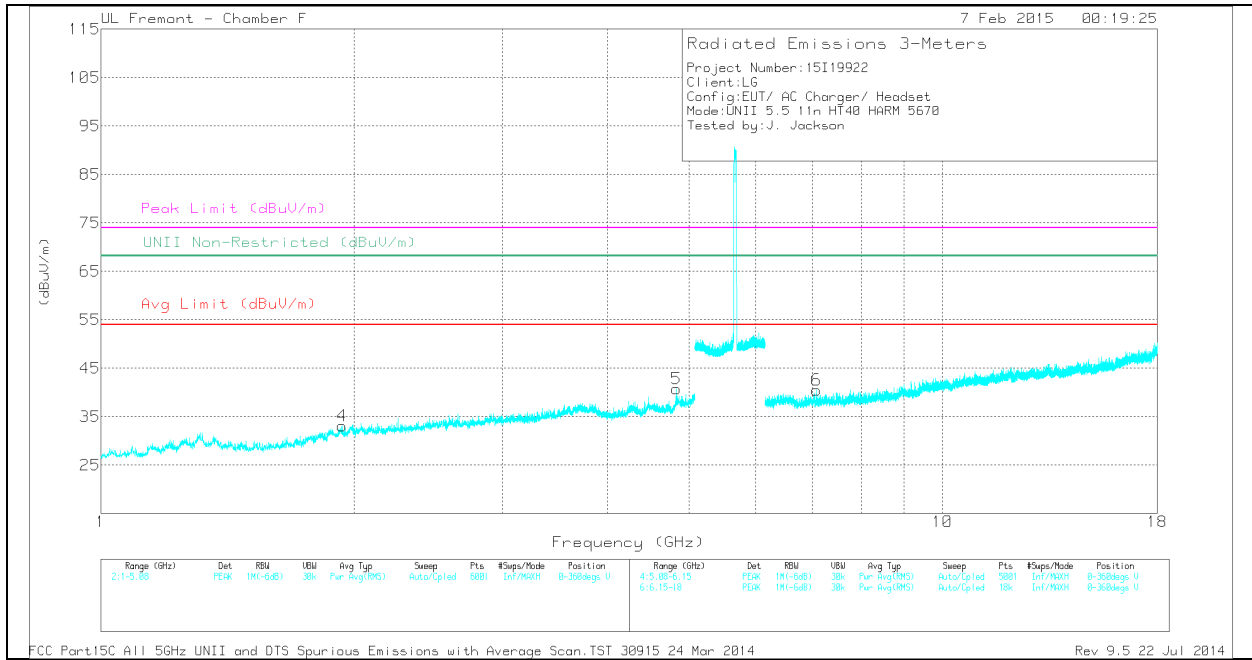
AD1 - KDB789033 Method: AD Primary Power Average

**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.

**HIGH CHANNEL 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**

*TRACE MARKERS*

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	1.874	33.46	PK	31.1	-31.2	0	33.36	-	-	-	-	68.2	-34.84	0-360	201	H
2	* 3.849	32.83	PK	34.2	-29	0	38.03	-	-	74	-35.97	-	-	0-360	101	H
4	1.936	32.81	PK	31.5	-31.2	0	33.11	-	-	-	-	68.2	-35.09	0-360	101	V
5	* 4.83	34.62	PK	34.1	-28	0	40.72	-	-	74	-33.28	-	-	0-360	101	V
3	10.013	27.87	PK	37.2	-21.6	0	43.47	-	-	-	-	68.2	-24.73	0-360	100	H
6	7.091	31.16	PK	35.5	-26.2	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
* 3.85	39.2	PK1	34.2	-29	0	44.4	-	-	74	-29.6	-	-	360	100	H
* 3.847	28.39	AD1	34.2	-29	.51	34.1	54	-19.9	-	-	-	-	360	100	H
* 4.832	40.5	PK1	34.1	-28	0	46.6	-	-	74	-27.4	-	-	360	100	V
* 4.833	29.63	AD1	34.1	-28	.51	36.24	54	-17.76	-	-	-	-	360	100	V

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

PK1 - KDB789033 Method: Peak

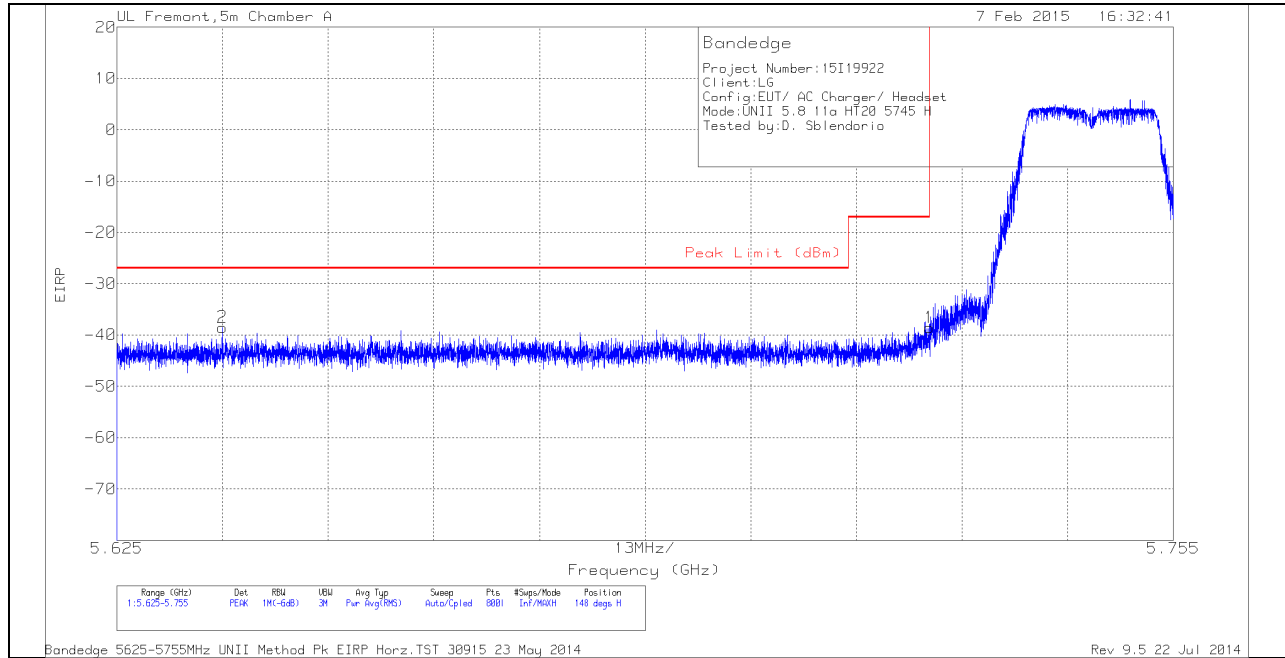
AD1 - KDB789033 Method: AD Primary Power Average

### 10.4. 5.8 GHz

#### 10.4.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND

#### AUTHORIZED BANDEGE (LOW CHANNEL)

#### HORIZONTAL PEAK PLOT

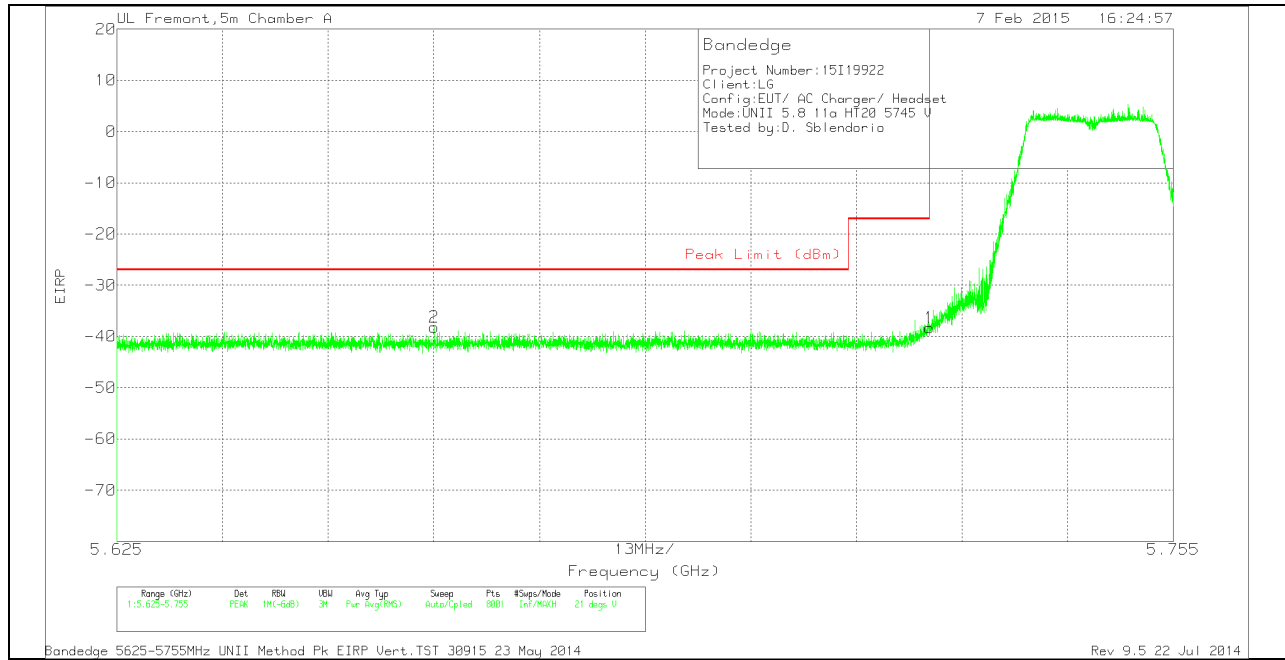


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.638	-65.89	PK	34.4	-18.8	11.8	-38.49	-27	-11.49	148	232	H
1	5.725	-65.99	PK	34.6	-19	11.8	-38.59	-17	-21.59	148	232	H

PK - Peak detector

**VERTICAL PEAK PLOT**



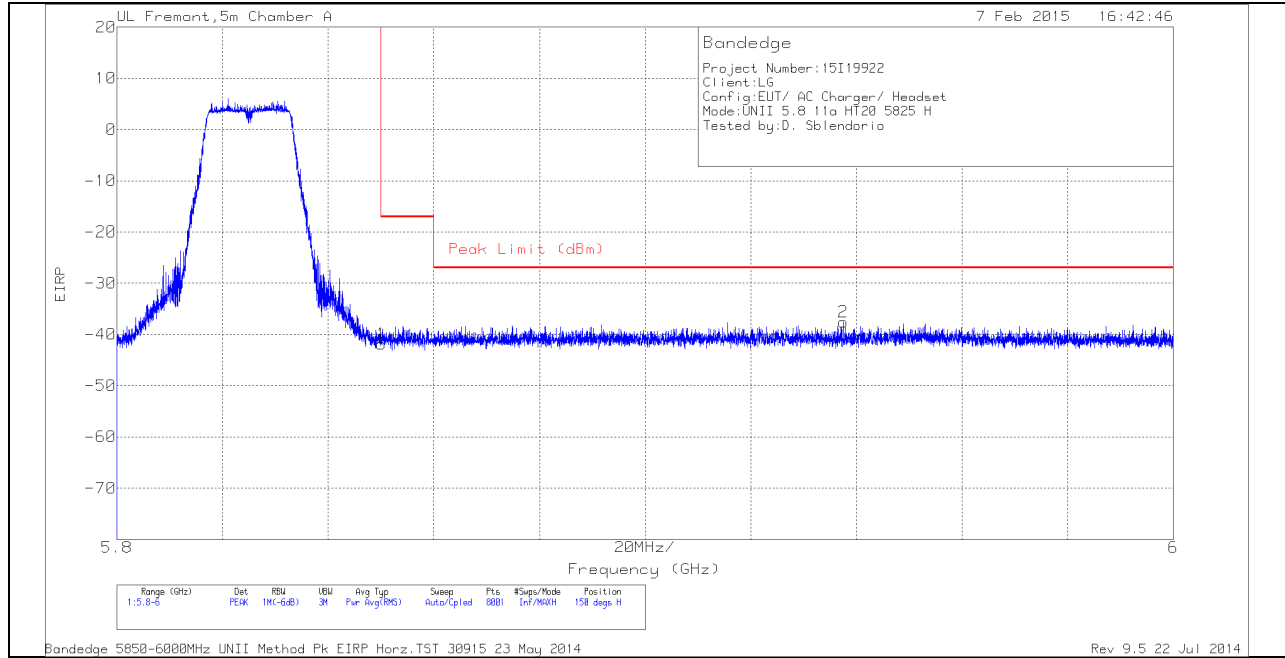
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.664	-65.75	PK	34.5	-18.7	11.8	-38.15	-27	-11.15	21	314	V
1	5.725	-65.67	PK	34.6	-19	11.8	-38.27	-17	-21.27	21	314	V

PK - Peak detector

### AUTHORIZED BANDEGE (HIGH CHANNEL)

#### HORIZONTAL PEAK PLOT

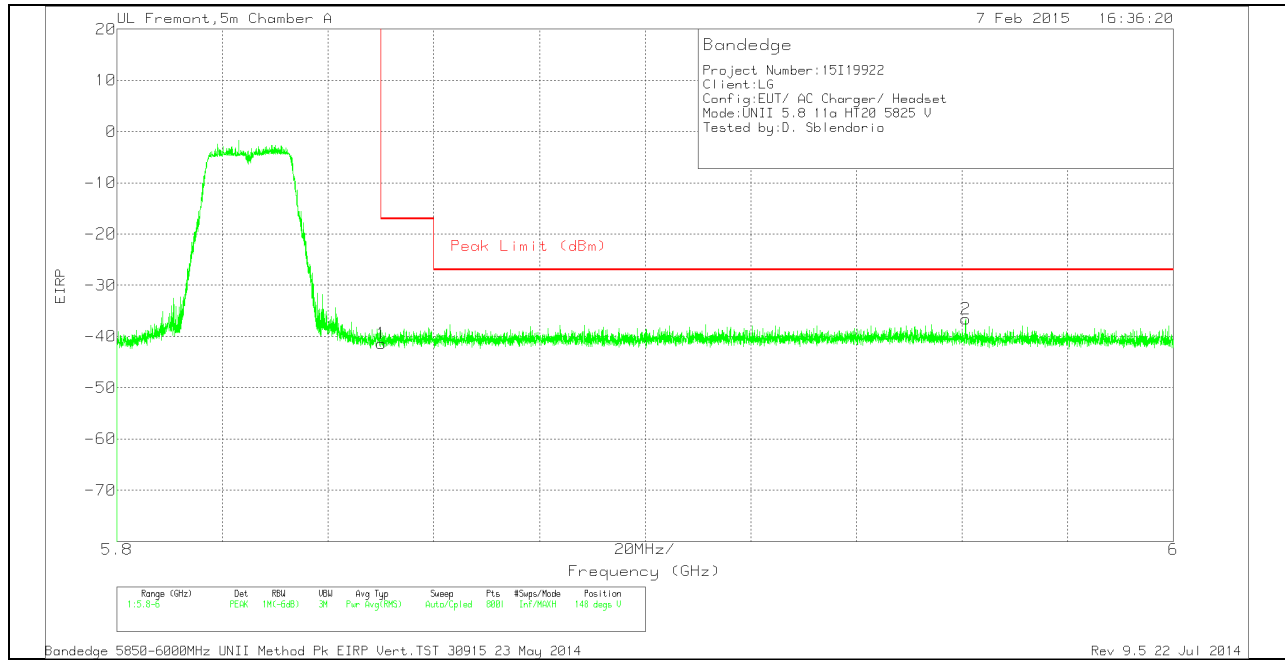


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.87	PK	34.9	-18.7	11.8	-41.87	-17	-24.87	150	271	H
2	5.938	-66.42	PK	35.1	-18.1	11.8	-37.62	-27	-10.62	150	271	H

PK - Peak detector

**VERTICAL PEAK PLOT**



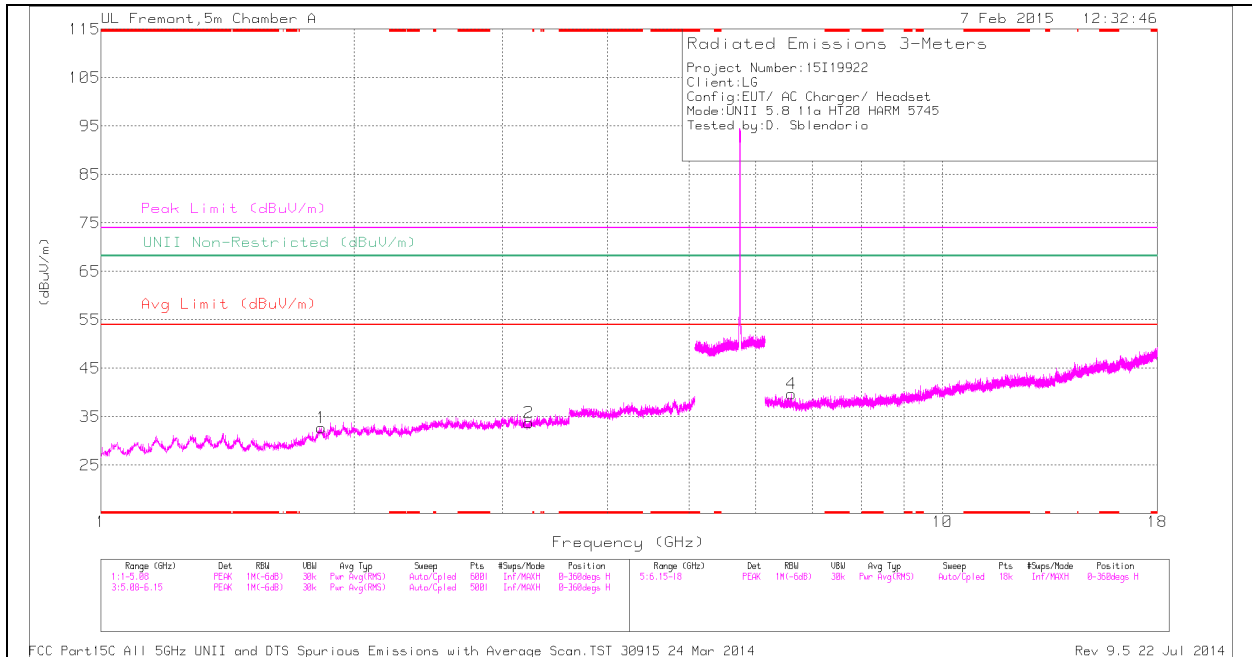
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.4	PK	34.9	-18.7	11.8	-41.4	-17	-24.4	148	232	V
2	5.961	-65.15	PK	35.2	-18.4	11.8	-36.55	-27	-9.55	148	232	V

PK - Peak detector

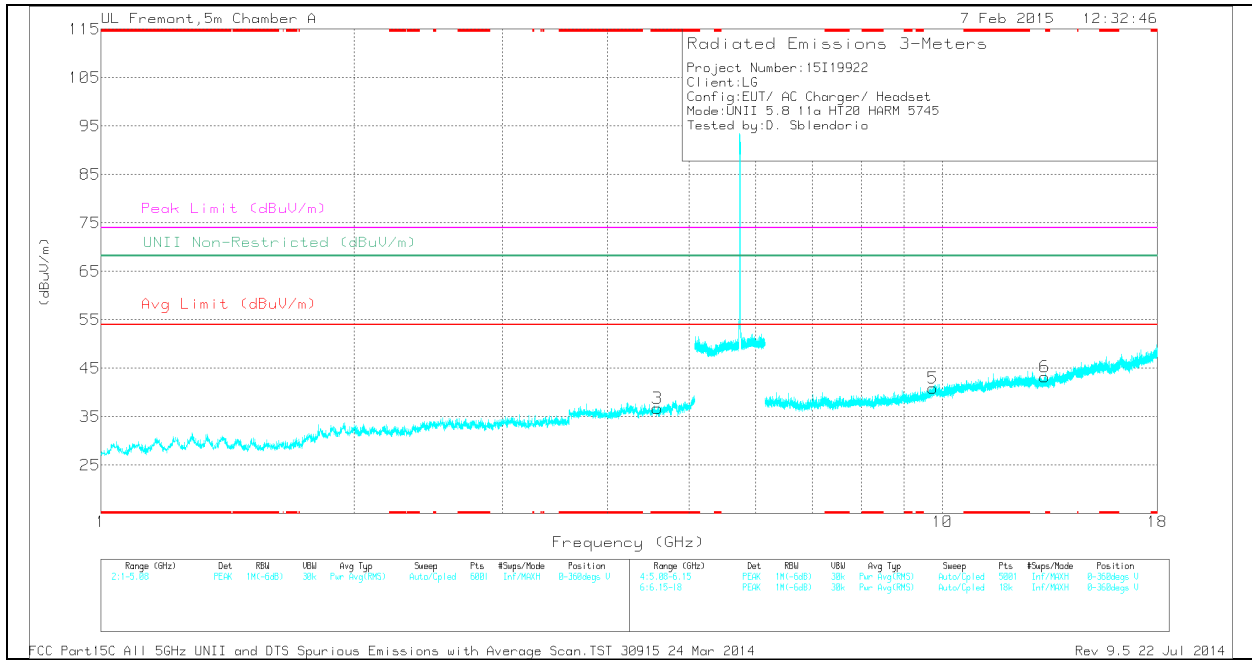


**LOW CHANNEL HORIZONTAL**



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

**LOW CHANNEL 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**

*TRACE MARKERS*

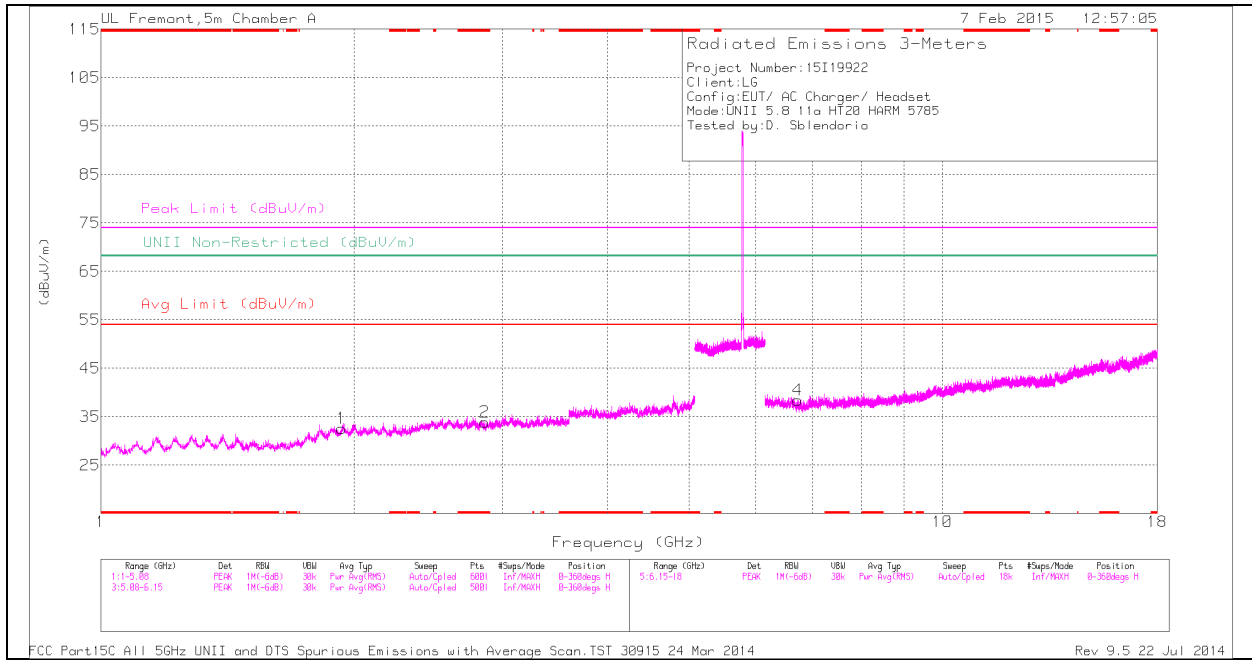
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.583	32	PK	34	-29.3	0	36.7	-	-	74	-37.3	-	-	0-360	100	V
1	1.827	34.06	PK	30.9	-32.2	0	32.76	-	-	-	-	68.2	-35.44	0-360	201	H
2	3.222	32.28	PK	32.7	-31.2	0	33.78	-	-	-	-	68.2	-34.42	0-360	201	H
4	6.613	29.89	PK	35.5	-25.7	0	39.69	-	-	-	-	68.2	-28.51	0-360	201	H
5	9.748	27.05	PK	36.9	-23	0	40.95	-	-	-	-	68.2	-27.25	0-360	201	V
6	13.22	26.35	PK	39.1	-22.2	0	43.25	-	-	-	-	68.2	-24.95	0-360	100	V

PK - Peak detector

*RADIATED EMISSIONS*

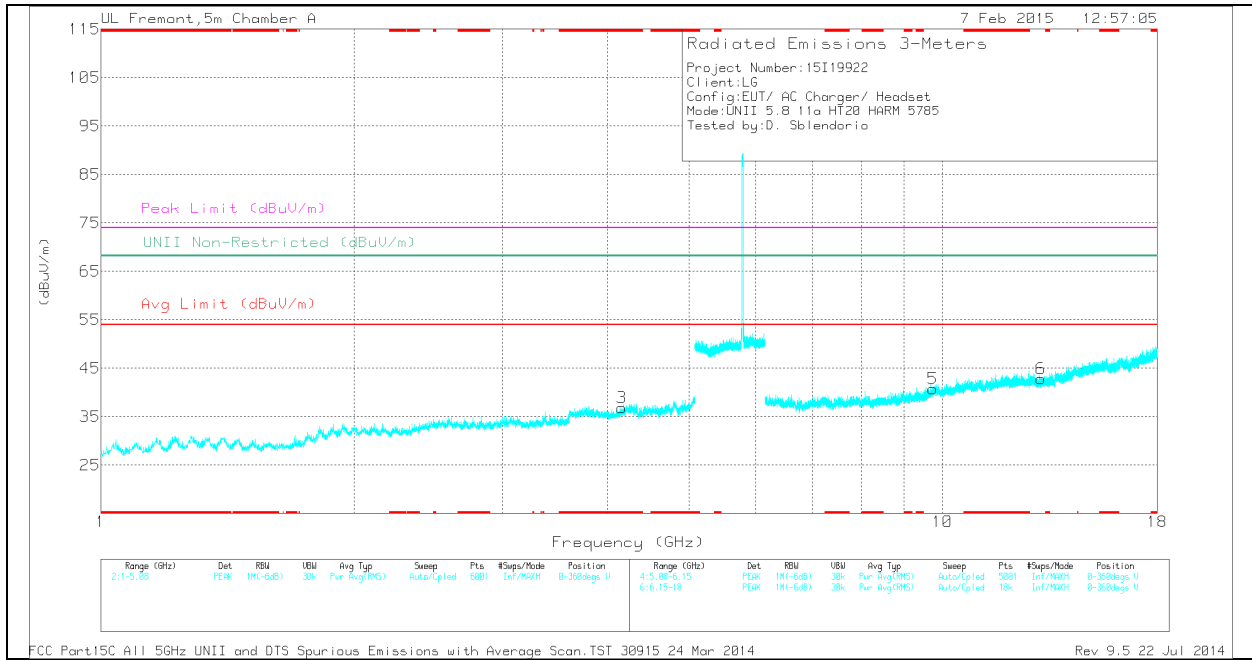
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.581	40.59	PK1	34	-29.3	0	45.29	-	-	74	-28.71	-	-	359	100	V
* 4.584	29.59	AD1	34	-29.3	.22	34.51	54	-19.49	-	-	-	-	359	100	V

**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.

**MID CHANNEL 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**

*TRACE MARKERS*

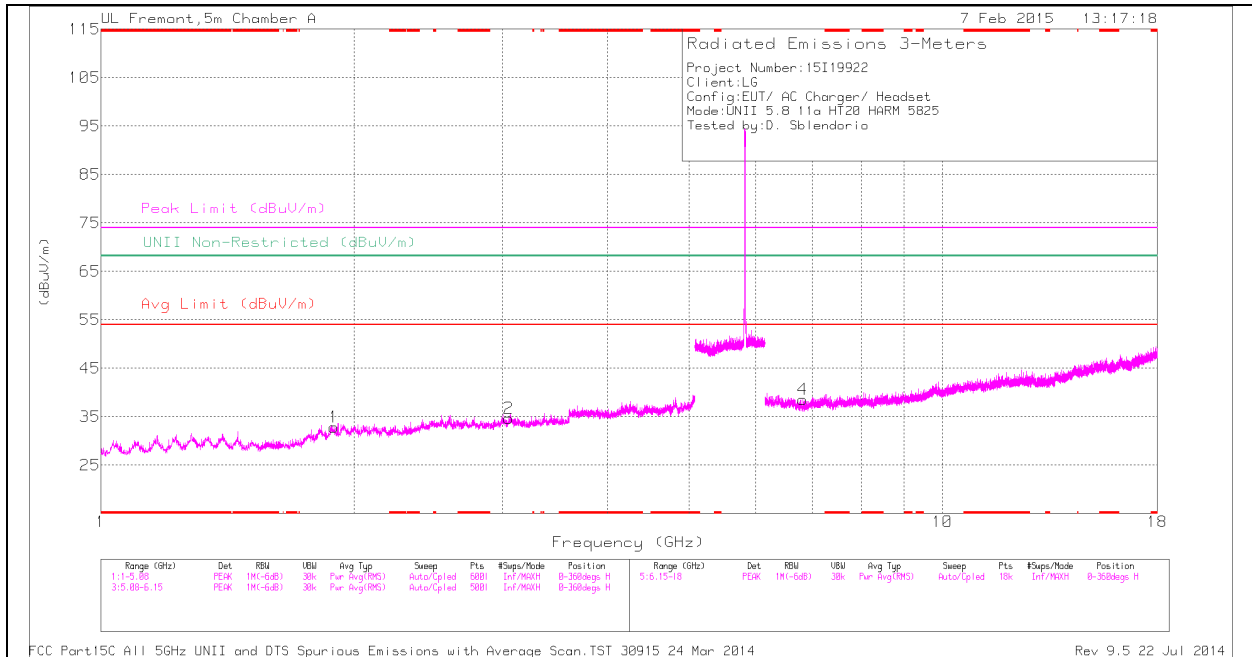
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.86	33.01	PK	32.6	-31.7	0	33.91	-	-	74	-40.09	-	-	0-360	100	H
3	* 4.162	32.56	PK	33.9	-29.6	0	36.86	-	-	74	-37.14	-	-	0-360	100	V
1	1.932	33.29	PK	31.8	-32.5	0	32.59	-	-	-	-	68.2	-35.61	0-360	100	H
4	6.73	30.25	PK	35.4	-27.2	0	38.45	-	-	-	-	68.2	-29.75	0-360	201	H
5	9.734	26.95	PK	36.9	-23.1	0	40.75	-	-	-	-	68.2	-27.45	0-360	201	V
6	13.094	25.54	PK	38.9	-21.6	0	42.84	-	-	-	-	68.2	-25.36	0-360	201	V

PK - Peak detector

*RADIATED EMISSIONS*

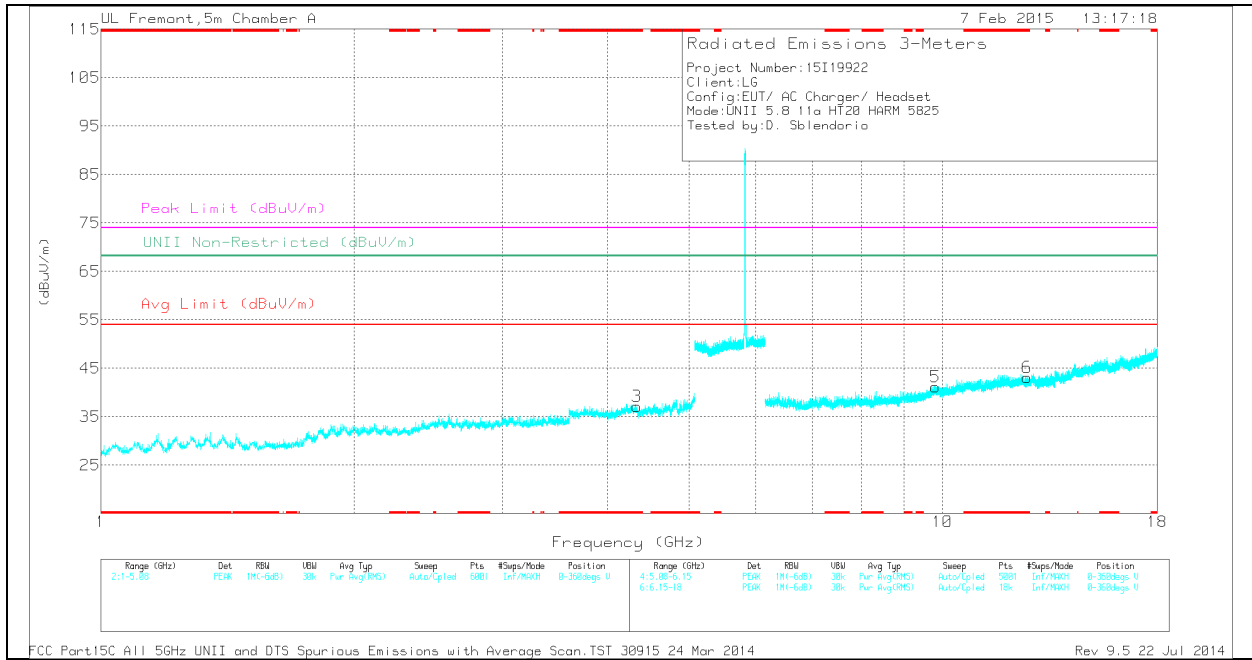
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.858	40.91	PK1	32.6	-31.7	0	41.81	-	-	74	-32.19	-	-	359	100	H
* 2.859	29.68	AD1	32.6	-31.7	.22	30.8	54	-23.2	-	-	-	-	359	100	H

**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.

**HIGH CHANNEL 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**

*TRACE MARKERS*

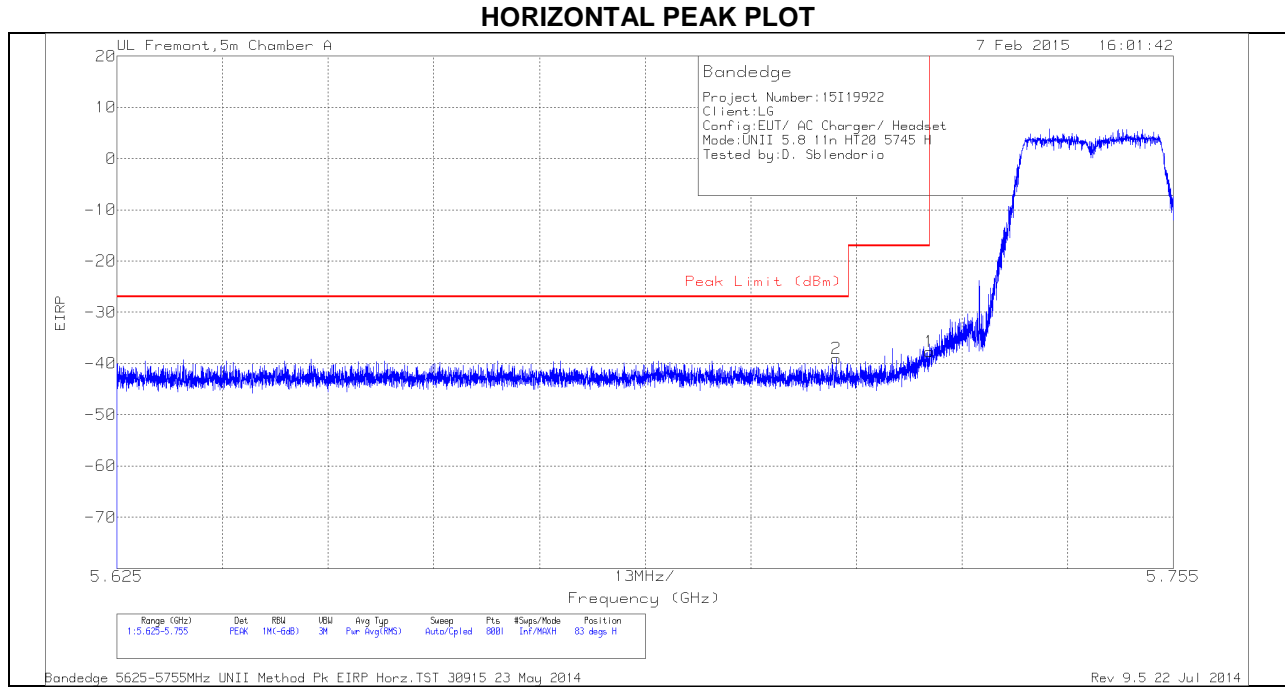
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.331	32.3	PK	34	-29.2	0	37.1	-	-	74	-36.9	-	-	0-360	100	V
6	* 12.615	25.79	PK	39	-21.7	0	43.09	-	-	74	-30.91	-	-	0-360	100	V
1	1.892	33.49	PK	31.6	-32.3	0	32.79	-	-	-	-	68.2	-35.41	0-360	201	H
2	3.051	31.82	PK	32.8	-30	0	34.62	-	-	-	-	68.2	-33.58	0-360	100	H
4	6.829	30.02	PK	35.3	-26.8	0	38.52	-	-	-	-	68.2	-29.68	0-360	201	H
5	9.807	26.76	PK	36.9	-22.5	0	41.16	-	-	-	-	68.2	-27.04	0-360	201	V

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
* 4.333	39.88	PK1	34	-29.2	0	44.68	-	-	74	-29.32	-	-	359	100	V
* 4.333	29.27	AD1	34	-29.2	.22	34.29	54	-19.71	-	-	-	-	359	100	V

**10.4.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND**  
**AUTHORIZED BANDEGE (LOW CHANNEL)**

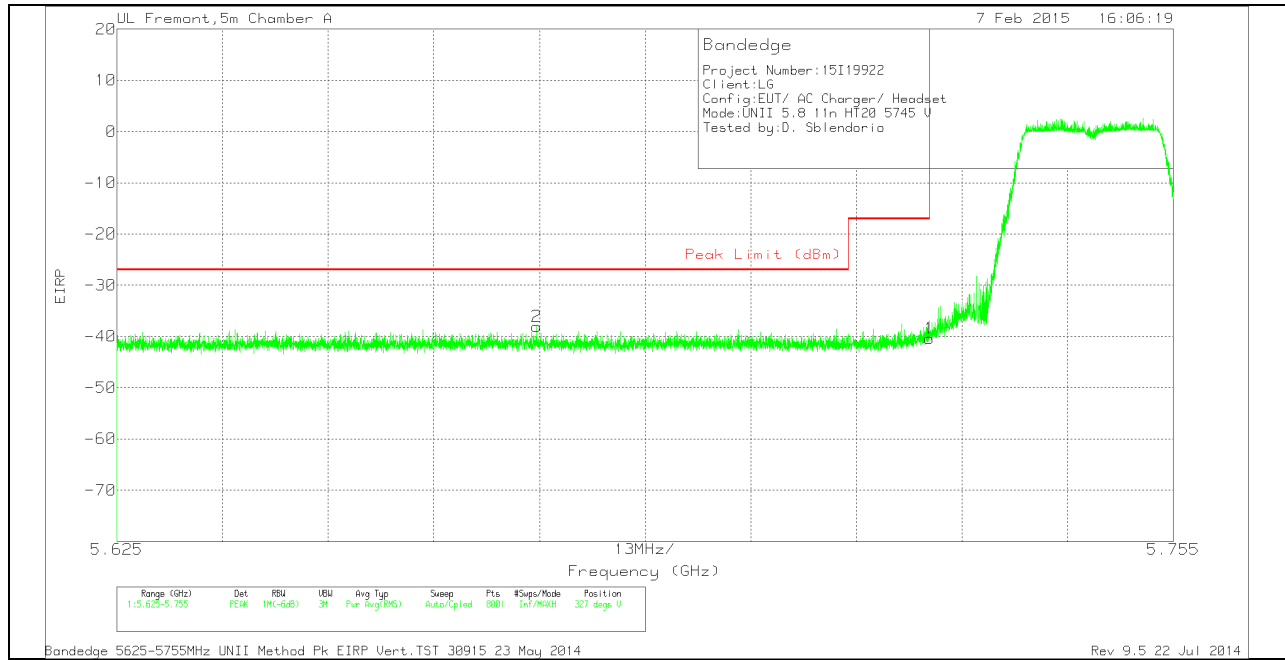


**HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-66.49	PK	34.5	-18.9	11.8	-39.09	-27	-12.09	83	272	H
1	5.725	-65.09	PK	34.6	-19	11.8	-37.69	-17	-20.69	83	272	H

PK - Peak detector

**VERTICAL PEAK PLOT**



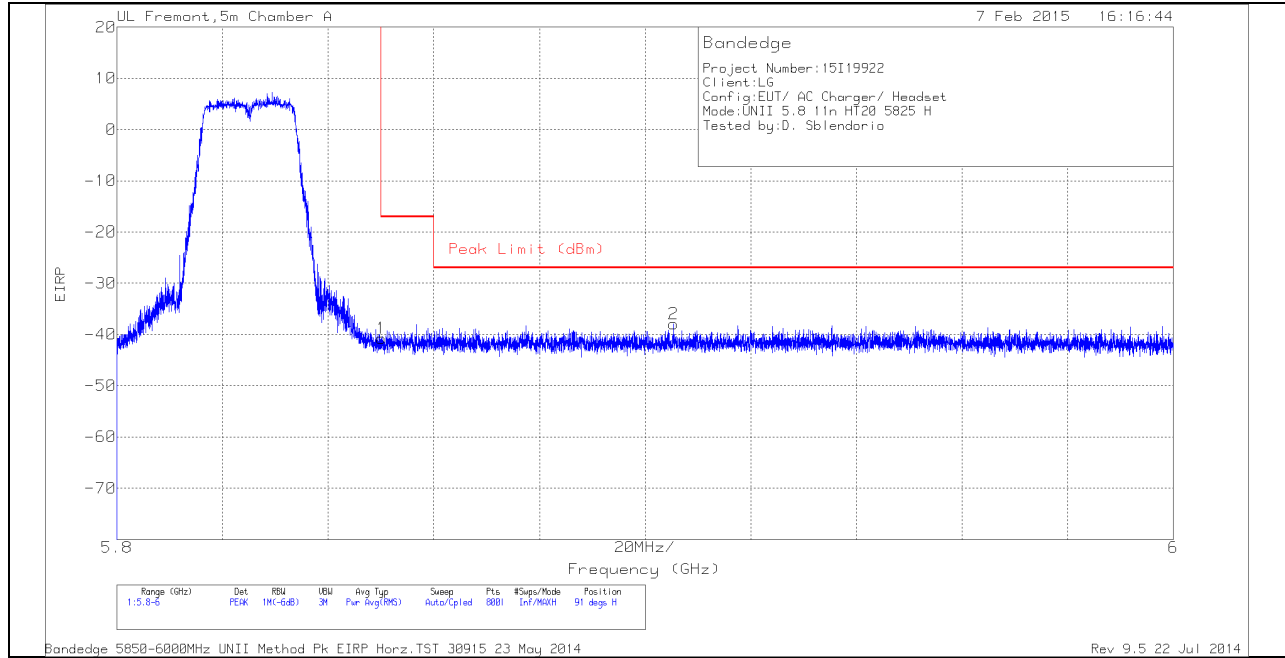
**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.677	-65.53	PK	34.5	-18.8	11.8	-38.03	-27	-11.03	327	293	V
1	5.725	-67.76	PK	34.6	-19	11.8	-40.36	-17	-23.36	327	293	V

PK - Peak detector

### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK PLOT

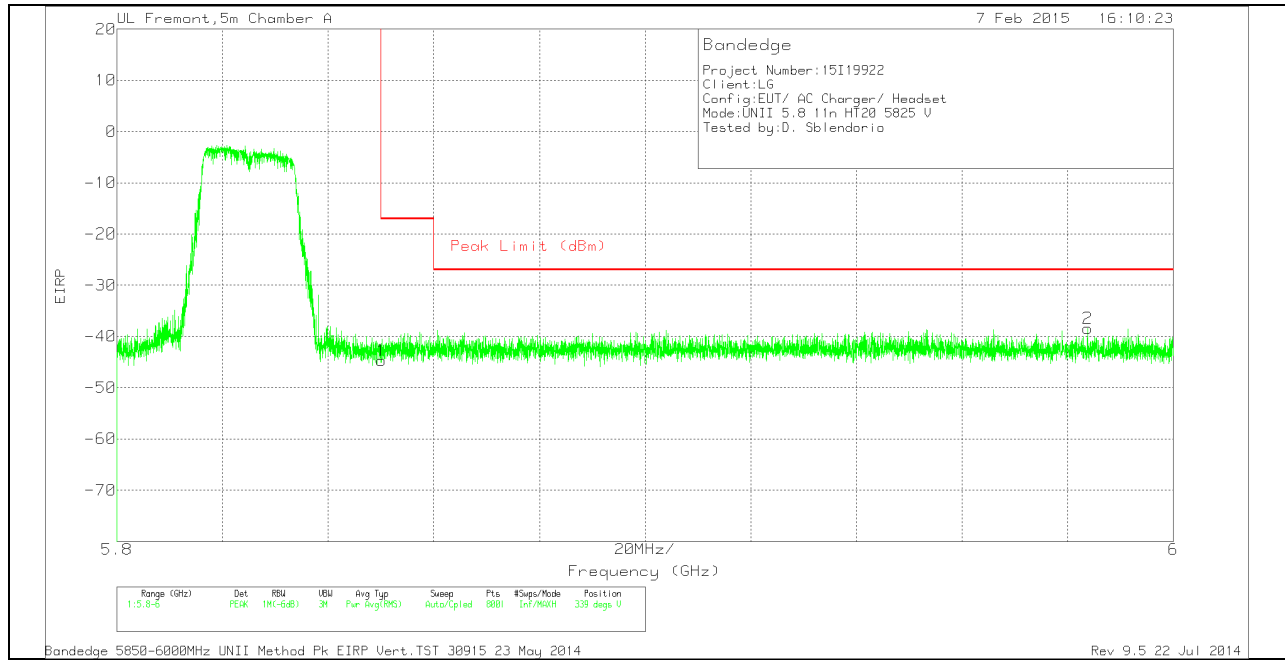


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.71	PK	34.9	-18.7	11.8	-40.71	-17	-23.71	91	268	H
2	5.905	-66.3	PK	35	-18.4	11.8	-37.9	-27	-10.9	91	268	H

PK - Peak detector

**VERTICAL PEAK PLOT**

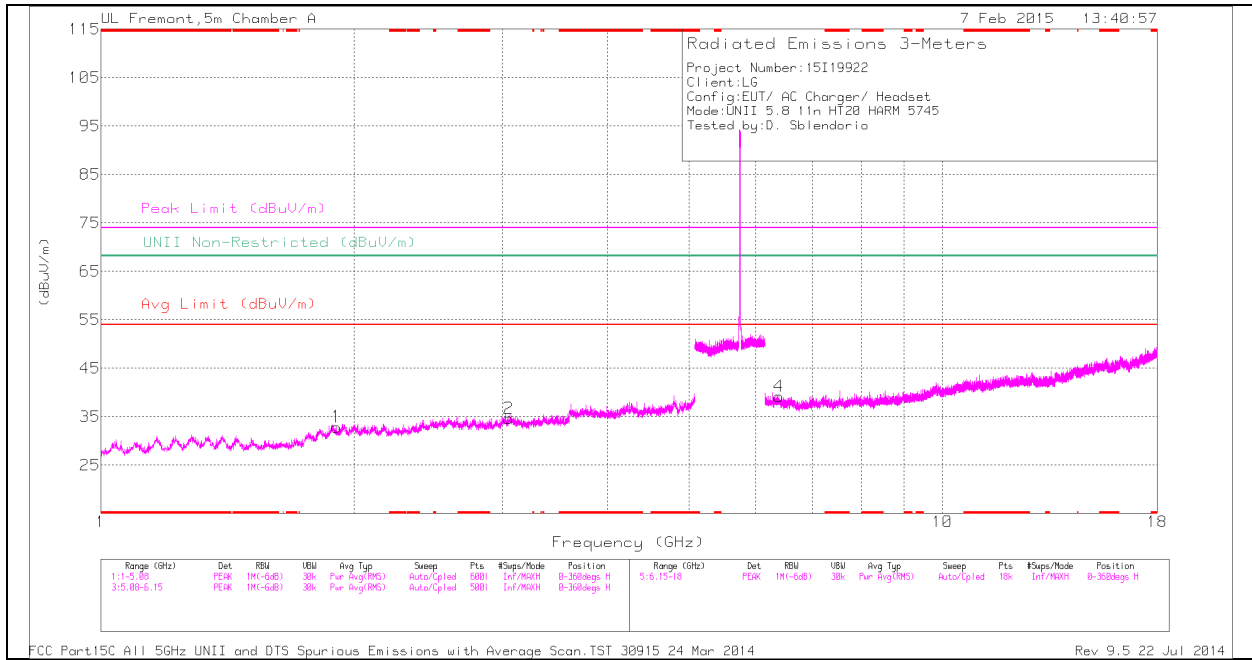


**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-72.68	PK	34.9	-18.7	11.8	-44.68	-17	-27.68	339	293	V
2	5.984	-67.08	PK	35.3	-18.5	11.8	-38.48	-27	-11.48	339	293	V

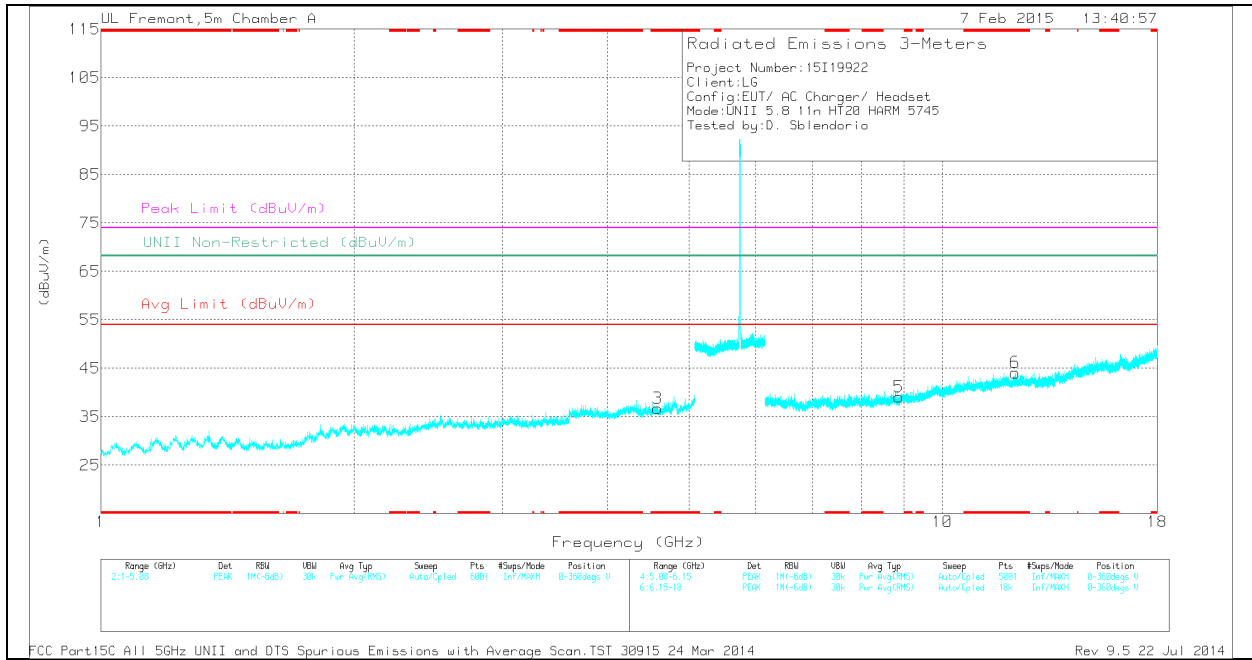
PK - Peak detector

**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.

**LOW CHANNEL 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**

*TRACE MARKERS*

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
3	* 4.587	32.03	PK	34	-29.3	0	36.73	-	-	74	-37.27	-	-	0-360	201	V
6	* 12.209	26.78	PK	38.8	-21.5	0	44.08	-	-	74	-29.92	-	-	0-360	201	V
1	1.906	33.51	PK	31.7	-32.3	0	32.91	-	-	-	-	68.2	-35.29	0-360	100	H
2	3.052	31.9	PK	32.8	-30	0	34.7	-	-	-	-	68.2	-33.5	0-360	201	H
4	6.392	30.29	PK	35.5	-26.6	0	39.19	-	-	-	-	68.2	-29.01	0-360	201	H
5	8.869	28.16	PK	35.8	-24.9	0	39.06	-	-	-	-	68.2	-29.14	0-360	201	V

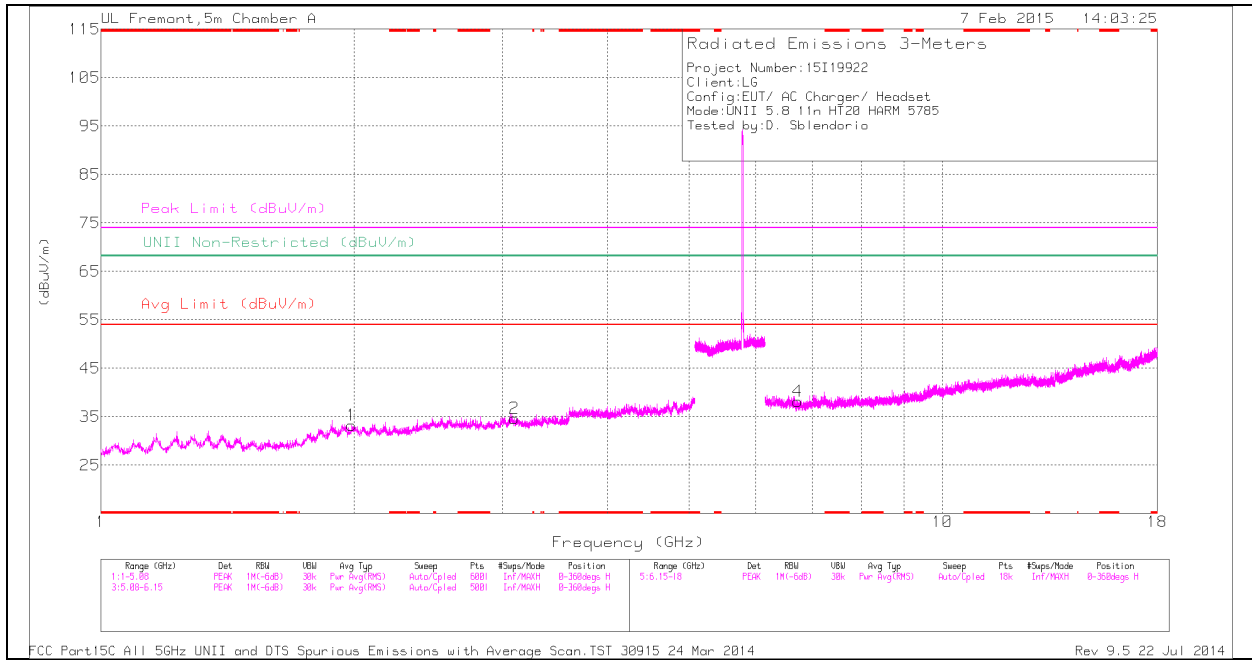
PK - Peak detector

*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
* 4.587	40.32	PK1	34	-29.3	0	45.02	-	-	74	-28.98	-	-	359	202	V
* 4.587	29.43	AD1	34	-29.3	.24	34.37	54	-19.63	-	-	-	-	359	202	V

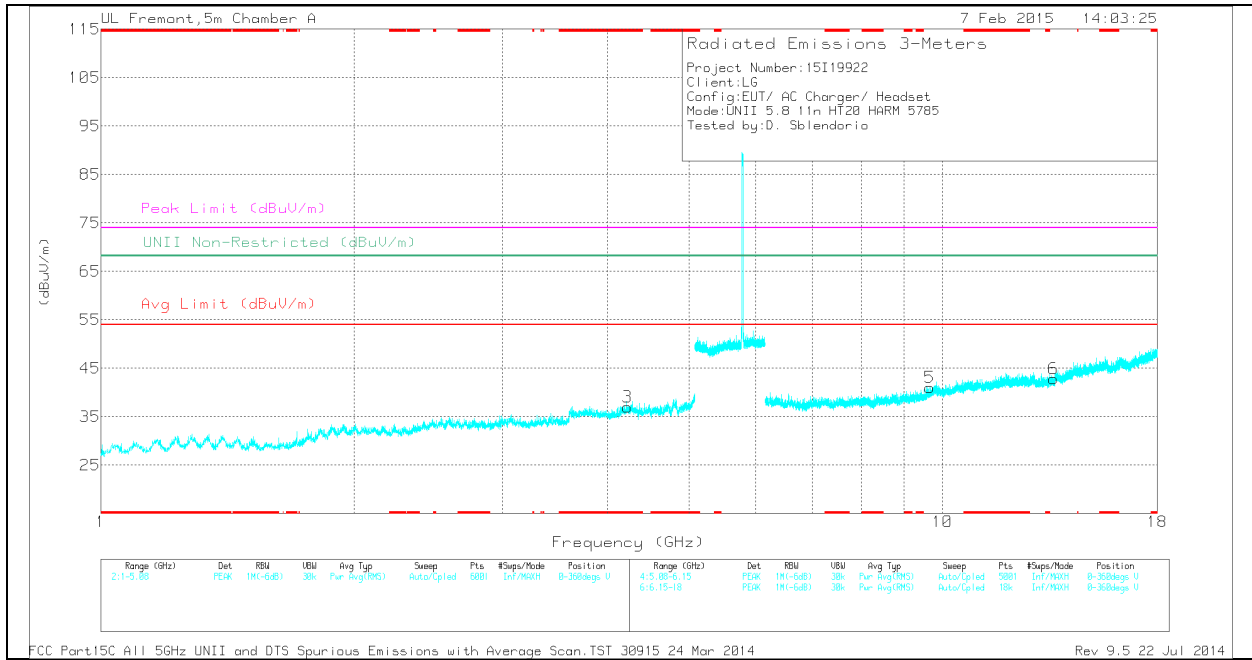


**MID CHANNEL HORIZONTAL**



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

**MID CHANNEL 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**

*TRACE MARKERS*

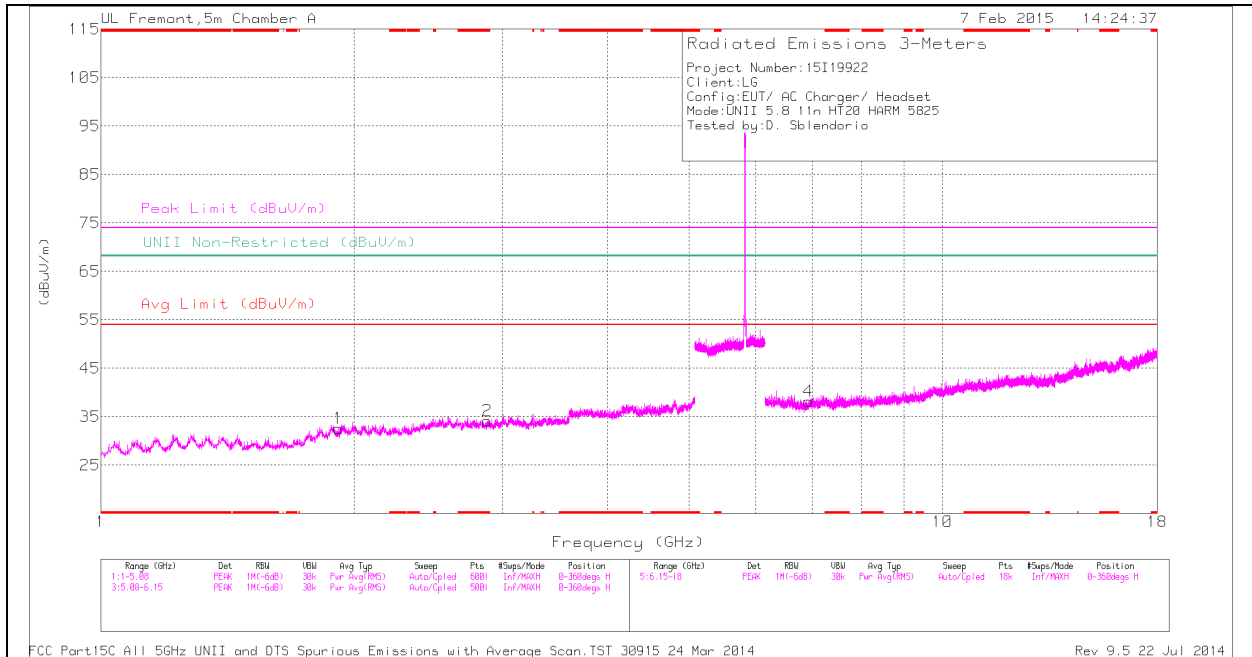
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.227	31.64	PK	33.9	-28.5	0	37.04	-	-	74	-36.96	-	-	0-360	100	V
1	1.985	34.06	PK	32	-32.8	0	33.26	-	-	-	-	68.2	-34.94	0-360	201	H
2	3.101	32.2	PK	32.8	-30.3	0	34.7	-	-	-	-	68.2	-33.5	0-360	100	H
4	6.734	29.98	PK	35.4	-27.2	0	38.18	-	-	-	-	68.2	-30.02	0-360	201	H
5	9.662	28	PK	36.8	-23.8	0	41	-	-	-	-	68.2	-27.2	0-360	201	V
6	13.555	25.89	PK	38.9	-21.9	0	42.89	-	-	-	-	68.2	-25.31	0-360	100	V

PK - Peak detector

*RADIATED EMISSIONS*

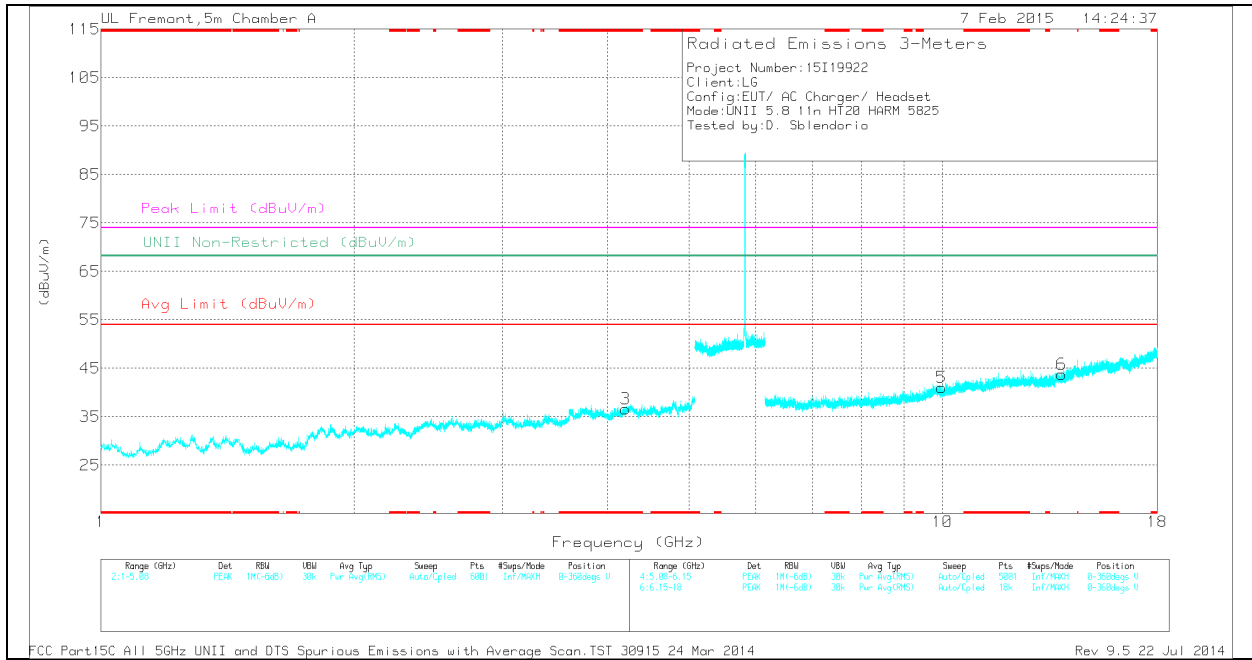
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.228	39.68	PK1	33.9	-28.5	0	45.08	-	-	74	-28.92	-	-	359	100	V
* 4.228	28.42	AD1	33.9	-28.5	.24	34.06	54	-19.94	-	-	-	-	359	100	V

**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.

**HIGH CHANNEL 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**

*TRACE MARKERS*

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	* 2.876	33.3	PK	32.6	-31.7	0	34.2	-	-	74	-39.8	-	-	0-360	201	H
3	* 4.203	31.16	PK	33.9	-28.4	0	36.66	-	-	74	-37.34	-	-	0-360	100	V
1	1.915	33.12	PK	31.7	-32.2	0	32.62	-	-	-	-	68.2	-35.58	0-360	201	H
4	6.931	29.3	PK	35.3	-26.4	0	38.2	-	-	-	-	68.2	-30	0-360	201	H
5	9.969	26.73	PK	37.1	-22.8	0	41.03	-	-	-	-	68.2	-27.17	0-360	201	V
6	13.863	26.5	PK	38.9	-21.7	0	43.7	-	-	-	-	68.2	-24.5	0-360	201	V

PK - Peak detector

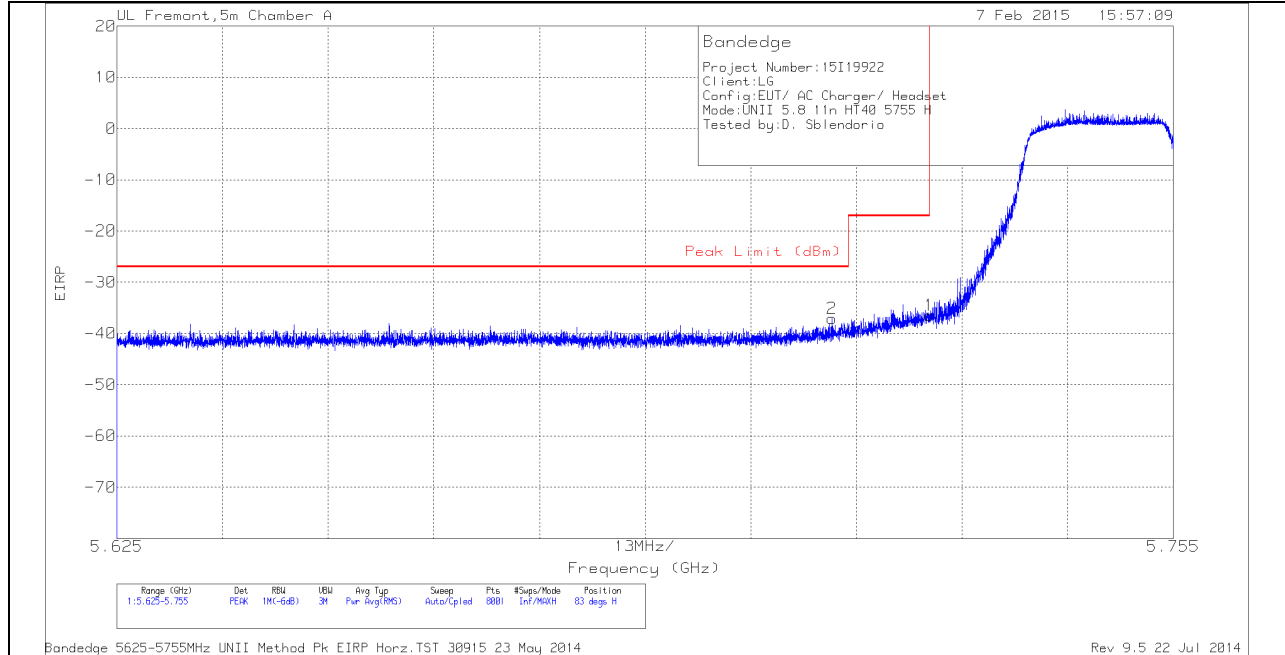
*RADIATED EMISSIONS*

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
* 2.878	40.63	PK1	32.6	-31.7	0	41.53	-	-	74	-32.47	-	-	359	202	H
* 2.875	29.46	AD1	32.6	-31.7	-24	30.6	54	-23.4	-	-	-	-	359	202	H

**10.4.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND**

**AUTHORIZED BANDEGE (LOW CHANNEL)**

**HORIZONTAL PEAK PLOT**

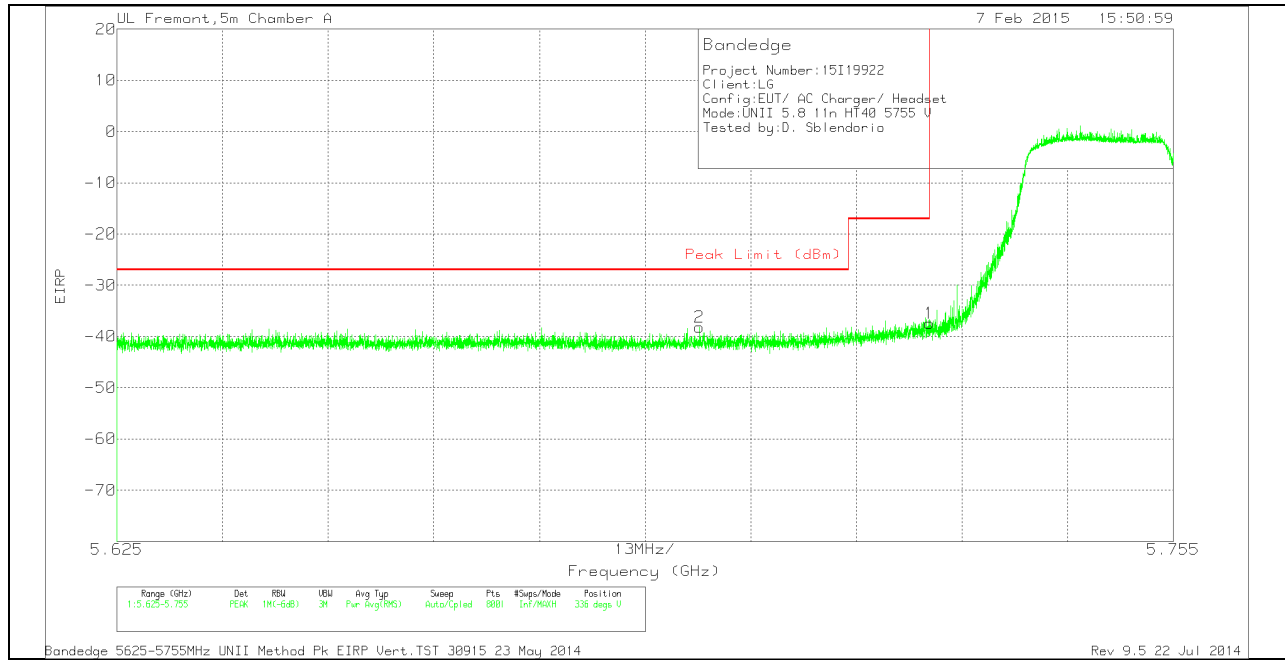


**HORIZONTAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-64.53	PK	34.5	-18.9	11.8	-37.13	-27	-10.13	83	272	H
1	5.725	-63.83	PK	34.6	-19	11.8	-36.43	-17	-19.43	83	272	H

PK - Peak detector

**VERTICAL PEAK PLOT**



**VERTICAL DATA**

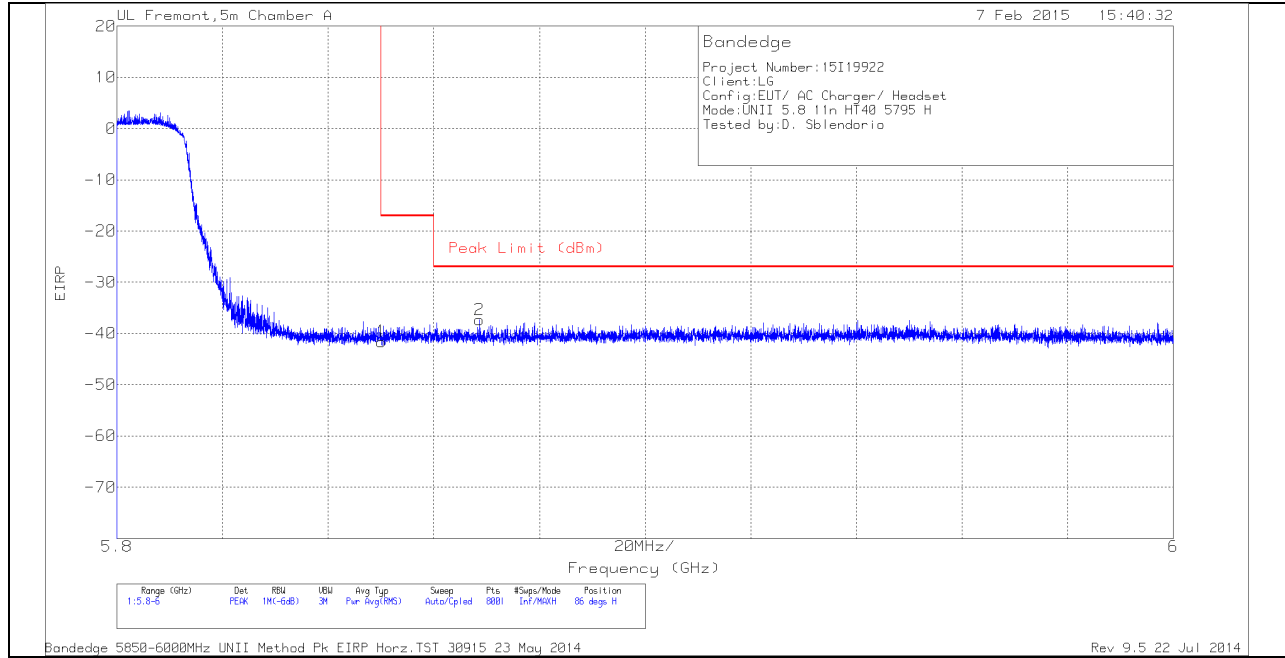
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cb/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.697	-65.8	PK	34.5	-18.7	11.8	-38.2	-27	-11.2	336	293	V
1	5.725	-64.88	PK	34.6	-19	11.8	-37.48	-17	-20.48	336	293	V

PK - Peak detector



### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK PLOT

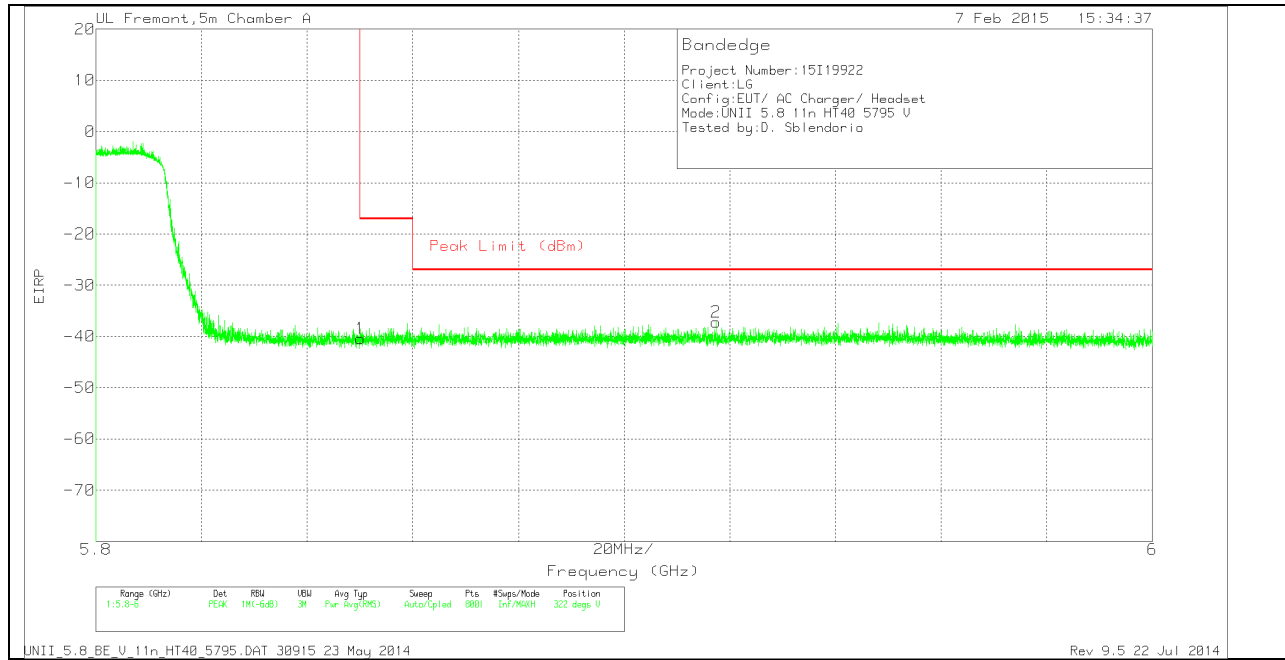


#### HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (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	-69.56	PK	34.9	-18.7	11.8	0	-41.56	-17	-24.56	86	295	H
2	5.869	-65.42	PK	34.9	-18.6	11.8	0	-37.32	-27	-10.32	86	295	H

PK - Peak detector

**VERTICAL PEAK PLOT**

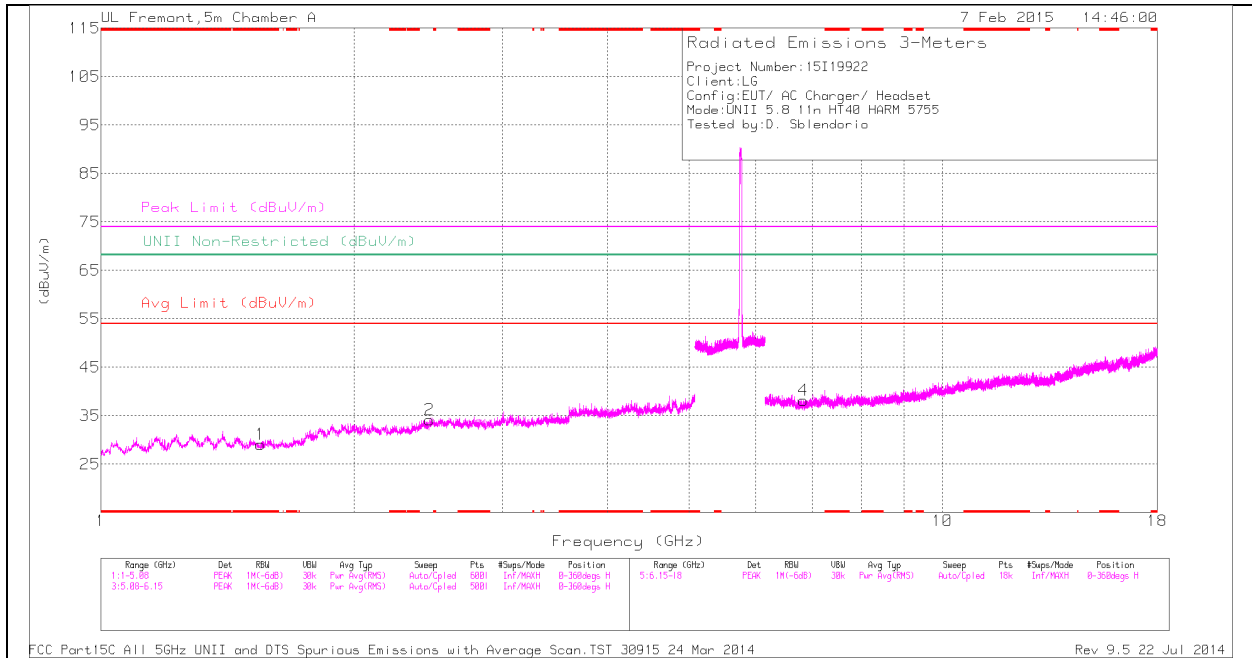


**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (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	-68.37	PK	34.9	-18.7	11.8	0	-40.37	-17	-23.37	322	289	V
2	5.917	-65.71	PK	35.1	-18.4	11.8	0	-37.21	-27	-10.21	322	289	V

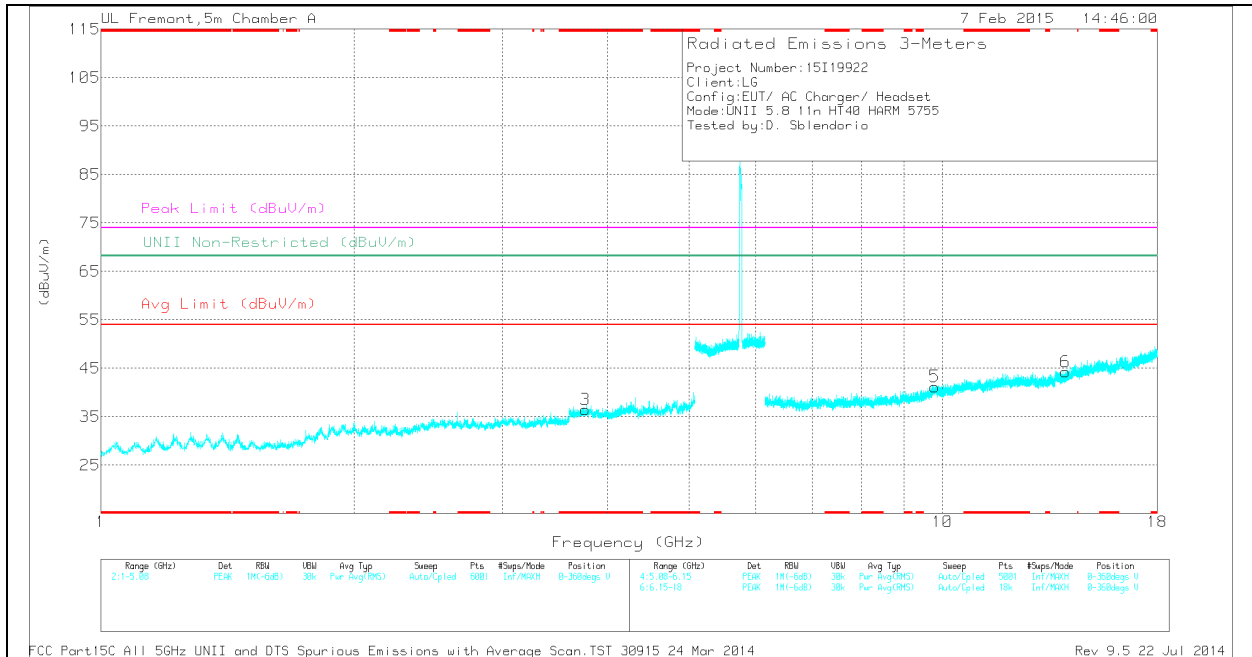
### HARMONICS AND SPURIOUS EMISSIONS

#### 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.

**LOW CHANNEL 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**

**Trace Markers**

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	* 1.547	33.43	PK	28.7	-33.1	0	29.03	-	-	74	-44.97	-	-	0-360	100	H
3	* 3.764	32.6	PK	33.5	-29.6	0	36.5	-	-	74	-37.5	-	-	0-360	201	V
2	2.457	33.09	PK	32.6	-31.6	0	34.09	-	-	-	-	68.2	-34.11	0-360	100	H
4	6.839	29.82	PK	35.3	-26.9	0	38.22	-	-	-	-	68.2	-29.98	0-360	100	H
5	9.786	26.92	PK	36.9	-22.6	0	41.22	-	-	-	-	68.2	-26.98	0-360	100	V
6	14.011	27.01	PK	39.1	-21.8	0	44.31	-	-	-	-	68.2	-23.89	0-360	100	V

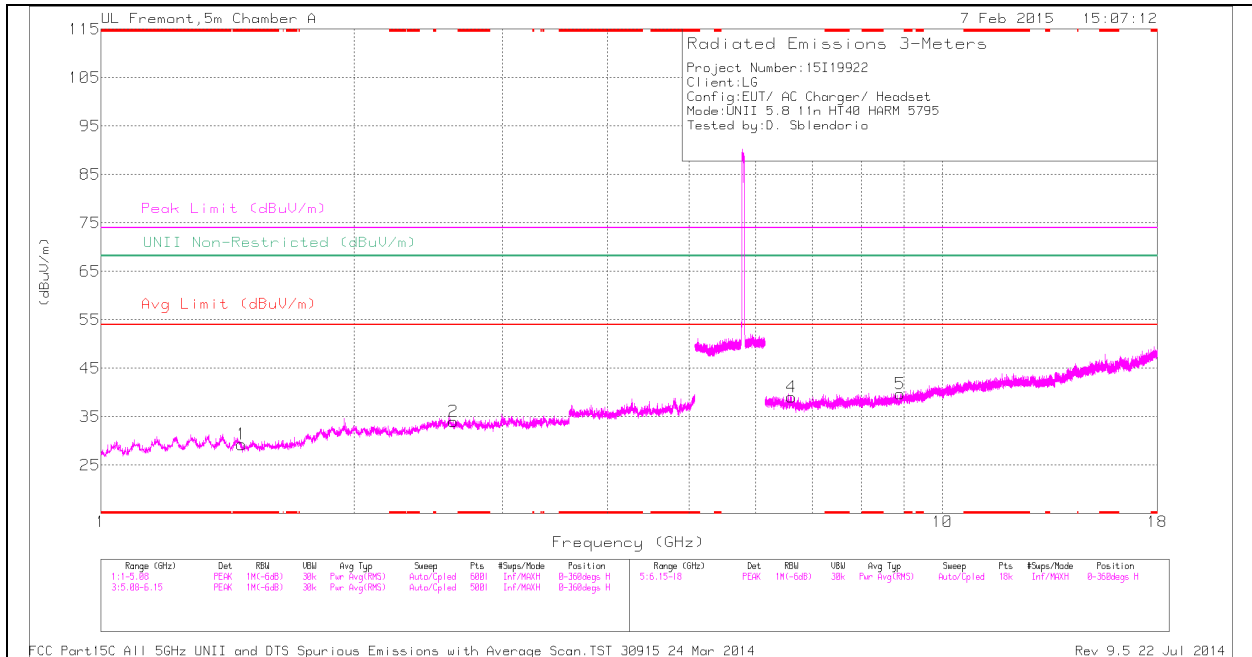
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK - Peak detector

**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
* 1.545	41.28	PK1	28.7	-33.1	0	36.88	-	-	74	-37.12	-	-	359	100	H
* 1.547	30.27	AD1	28.7	-33.1	.51	26.38	54	-27.62	-	-	-	-	359	100	H

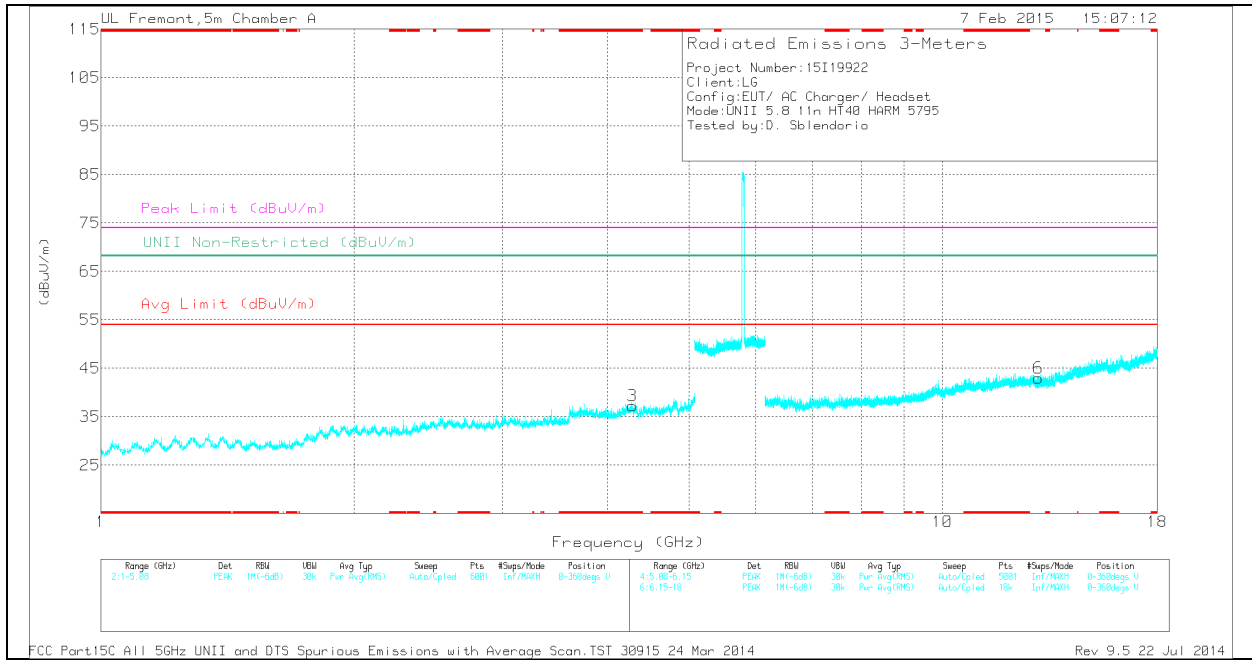
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK1 - KDB789033 Method: Peak  
 AD1 - KDB789033 Method: AD Primary Power Average

**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.

**HIGH CHANNEL 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**

Trace Markers

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	* 1.471	33.48	PK	29	-33.2	0	29.28	-	-	74	-44.72	-	-	0-360	201	H
3	* 4.28	31.68	PK	34	-28.4	0	37.28	-	-	74	-36.72	-	-	0-360	201	V
2	2.623	32.82	PK	32.9	-31.7	0	34.02	-	-	-	-	68.2	-34.18	0-360	100	H
4	6.619	29.57	PK	35.5	-26	0	39.07	-	-	-	-	68.2	-29.13	0-360	201	H
5	8.914	28.4	PK	35.8	-24.5	0	39.7	-	-	-	-	68.2	-28.5	0-360	100	H
6	13.009	26.01	PK	38.9	-21.9	0	43.01	-	-	-	-	68.2	-25.19	0-360	100	V

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

Radiated Emissions

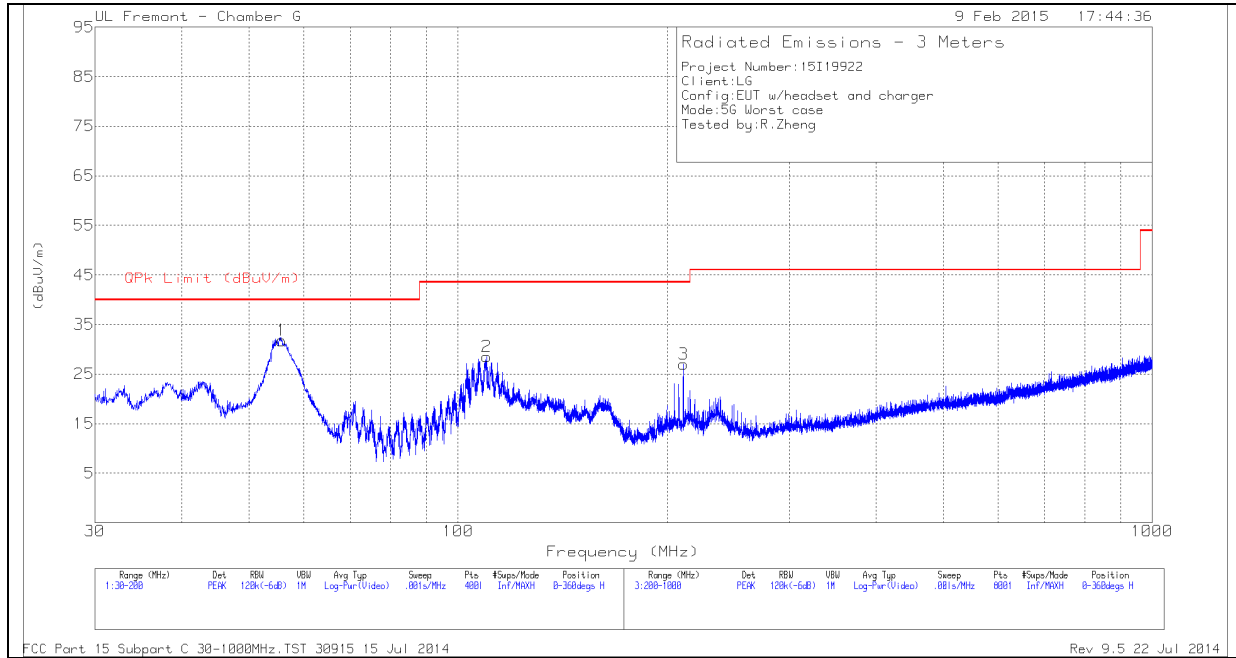
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.469	41.62	PK1	29.1	-33.2	0	37.52	-	-	74	-36.48	-	-	360	202	H
* 1.469	30.25	AD1	29.1	-33.2	.51	26.66	54	-27.34	-	-	-	-	360	202	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
 PK1 - KDB789033 Method: Peak  
 AD1 - KDB789033 Method: AD Primary Power Average

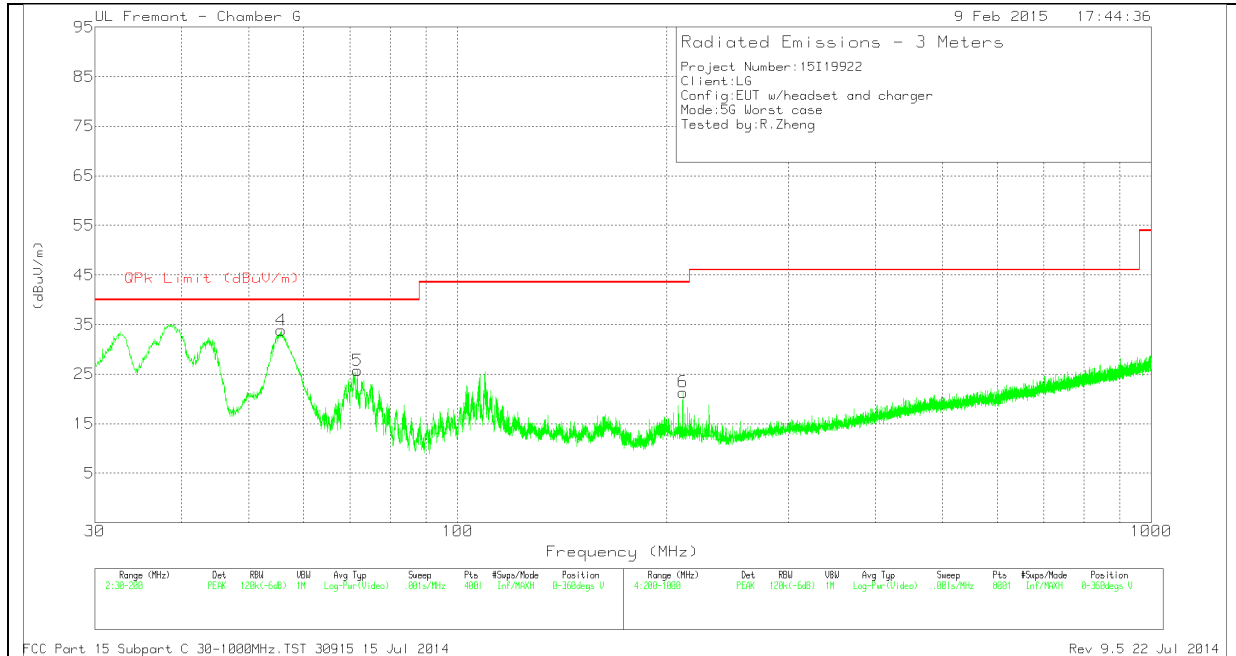


## 11. WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band)

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



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



**Below 1G Data**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 109.985	43.2	PK	12.6	-30.5	0	25.3	43.52	-18.22	0-360	200	H
3	45.7675	53.32	PK	10.1	-31	0	32.42	40	-7.58	0-360	101	V
1	66.38	44.49	PK	8	-30.9	0	21.59	40	-18.41	0-360	300	H
4	88.6075	41.31	PK	7.5	-30.6	0	18.21	43.52	-25.31	0-360	101	V
5	230.4	39.61	PK	11.1	-29.8	0	20.91	46.02	-25.11	0-360	101	H
7	314.3	29.11	PK	13.8	-29.3	0	13.61	46.02	-32.41	0-360	200	V
8	654.1	29.65	PK	19.6	-28.3	0	20.95	46.02	-25.07	0-360	300	V
6	900	32.99	PK	22.3	-27.4	0	27.89	46.02	-18.13	0-360	101	H