



**FCC 47 CFR PART 15 SUBPART E
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

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

MODEL NUMBER: LG-VS985, VS985, LGVS985, AS985, LG-AS985 & LGAS985

FCC ID: ZNFVS985

IC: 2703C-VS985

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Prepared for

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC.

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

MODEL: LG-VS985, VS985, LGVS985, AS985, LG-AS985 & LGAS985

SERIAL NUMBER: 1873283 (Radiated)

DATE TESTED: MAY 15-20, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	Pass

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

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

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.4-2009, RSS-GEN Issue 3, RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

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

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5180-5240	802.11a	12.03	15.96
5180-5240	802.11n HT20	10.89	12.27
5190-5230	802.11n HT40	10.56	11.38
5210	802.11ac HT80	10.77	11.94
5260-5320	802.11a	12.06	16.07
5260-5320	802.11n HT20	11.33	13.58
5270-5310	802.11n HT40	12.3	16.98
5290	802.11ac HT80	10.97	12.50
5500-5700	802.11a	11.84	15.28
5500-5700	802.11n HT20	10.53	11.30
5510-5670	802.11n HT40	10.63	11.56
5530	802.11ac HT80	10.92	12.36
5745-5825	802.11a	12.27	16.87
5745-5825	802.11n HT20	11.12	12.94
5755-5795	802.11n HT40	10.65	11.61
5775	802.11ac HT80	10.77	11.94

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of 0.44 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
802.11ac HT80mode: MCS0

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-04WT2	TA350000050	N/A
Earphone	LG	N/A	N/A	N/A
Smart Cover	LG	N/A	N/A	N/A

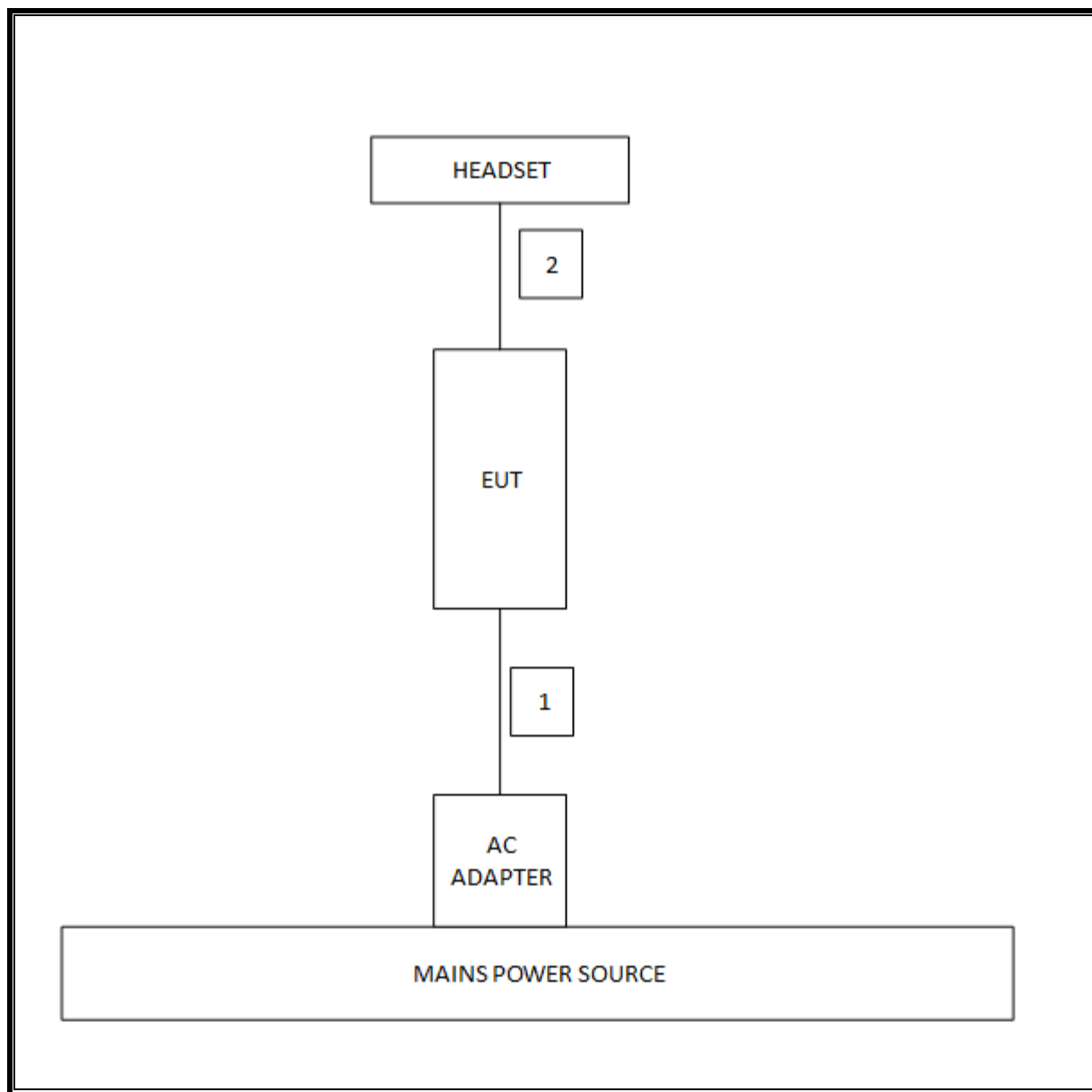
I/O CABLES

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

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)	Occupied Band width (26dB)	N/A	Conducted	Pass	see original
15.407 (a)(1)	TX Cond. Power 5.15-2.25	<17dBm or 4+10Log(OBW)		Pass	see original
15.407 (a)(2)	TX Cond. Power 5.25-5.35 & 5.47-5.725	<24dBm or 11+10Log(OBW)		Pass	see original
15.407 (a)(3)	TX Cond. Power 5.725-5.825	< 30dBm or 17+10Log(OBW)		Pass	see original
15.407 (a)(5)	PSD	<4dBm for 5.2 and <11dBm for 5.3,5.5		Pass	see original
15.407 (a)(6)	Peak Excursion Ratio	13dB		Pass	see original
15.207 (a)	AC Power Line conducted emissions	Section 10	Radiated	Pass	see original
15.407 (b) & 15.209	Radiated Spurious Emission	< 54dBuV/m		Pass	48.08dBmV/m
15.407 (h)(2)	Dynamic Frequency Selection	N/A	Radiated / Conducted	Pass	N/A

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

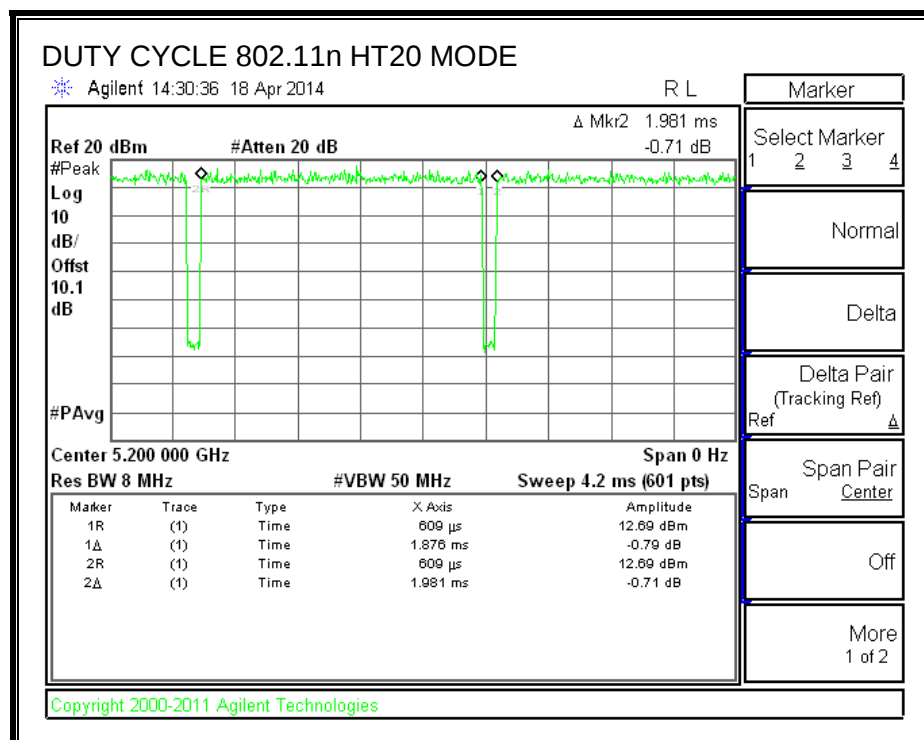
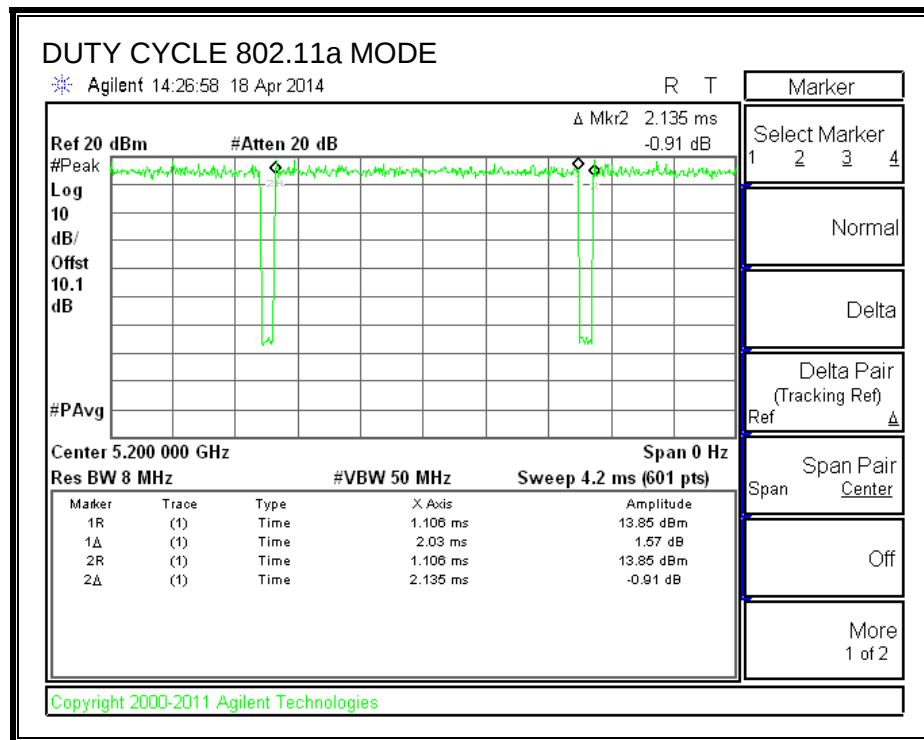
PROCEDURE

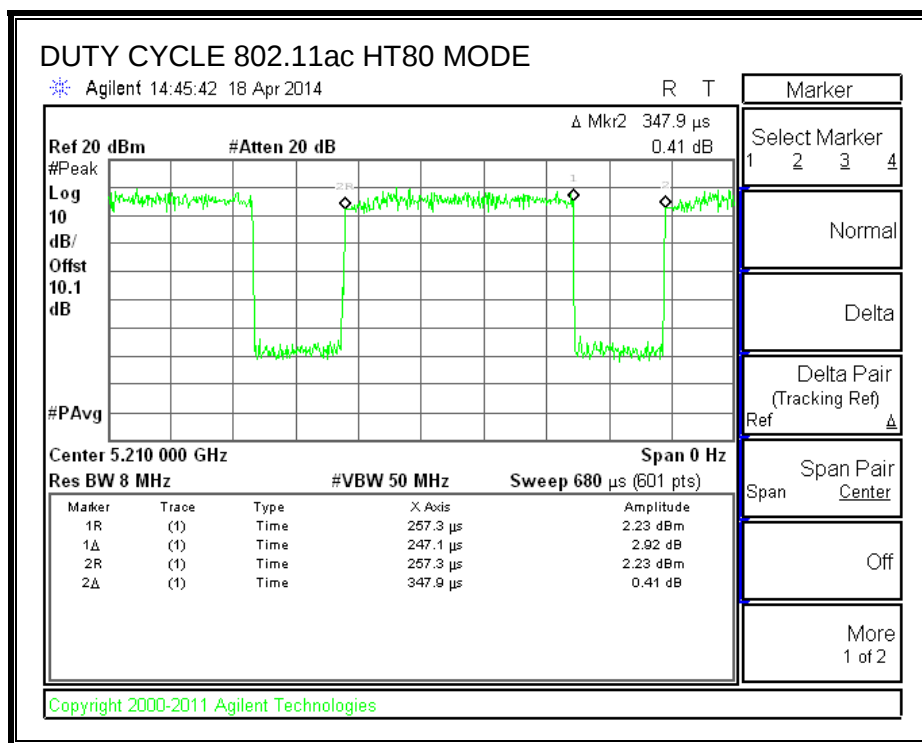
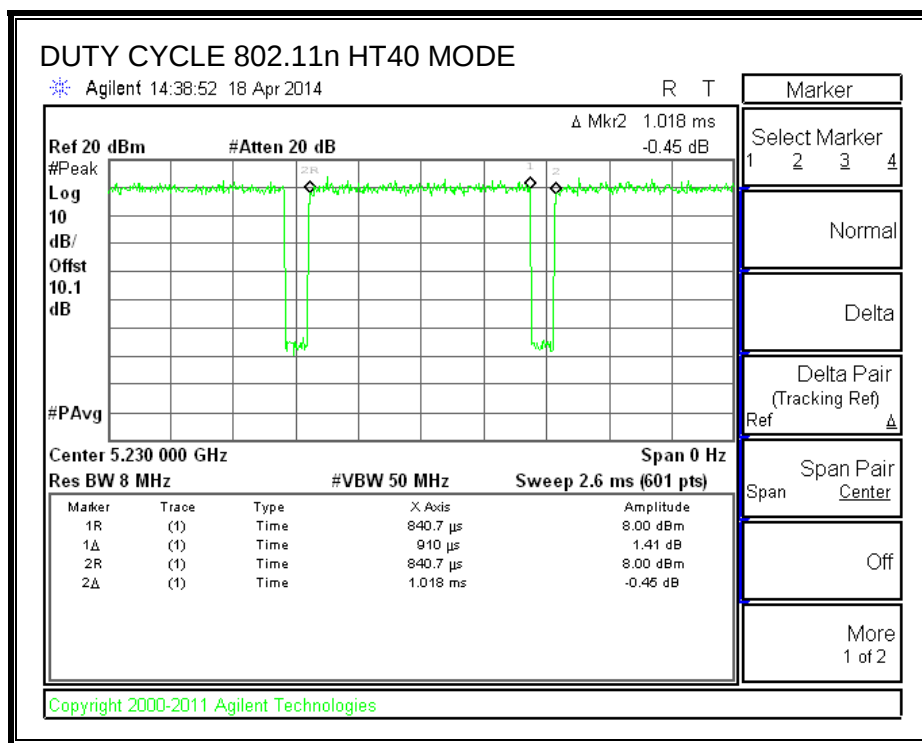
KDB 789033 Zero-Span Spectrum Analyzer Method.

8.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.03	2.14	0.951	95.1%	0.22	0.493
802.11ac HT80	0.25	0.35	0.710	71.0%	1.49	4.047
802.11n HT20	1.88	1.98	0.947	94.7%	0.24	0.533
802.11n HT40	0.91	1.02	0.894	89.4%	0.49	1.099

8.2. DUTY CYCLE PLOTS (From original)





9. MEASUREMENT METHOD

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

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

10. TRANSMITTER ABOVE 1 GHz

LIMITS

FCC §15.205 and §15.209

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

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

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

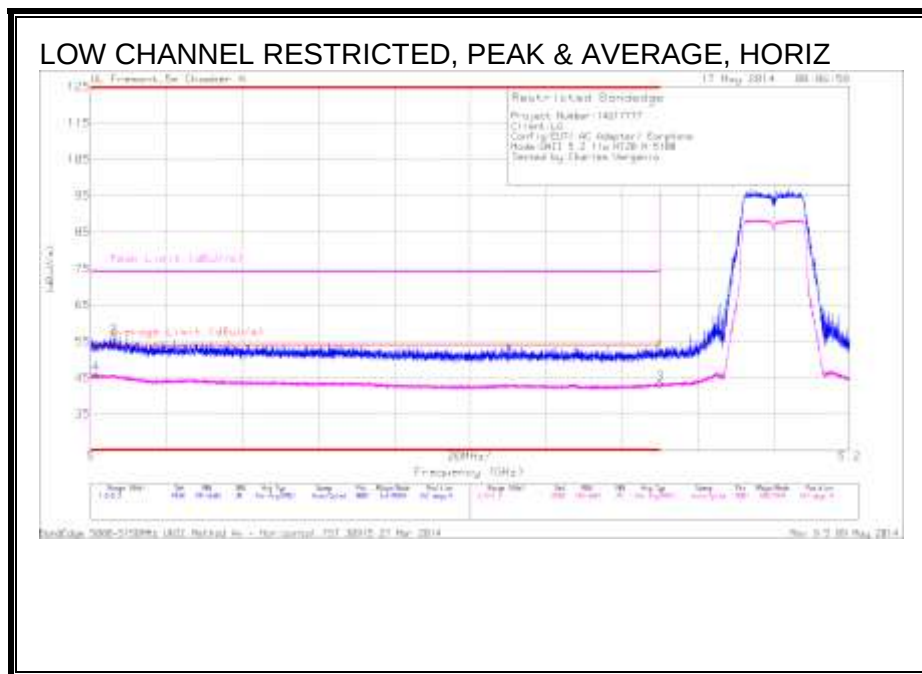
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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

10.1. 5.2 GHz

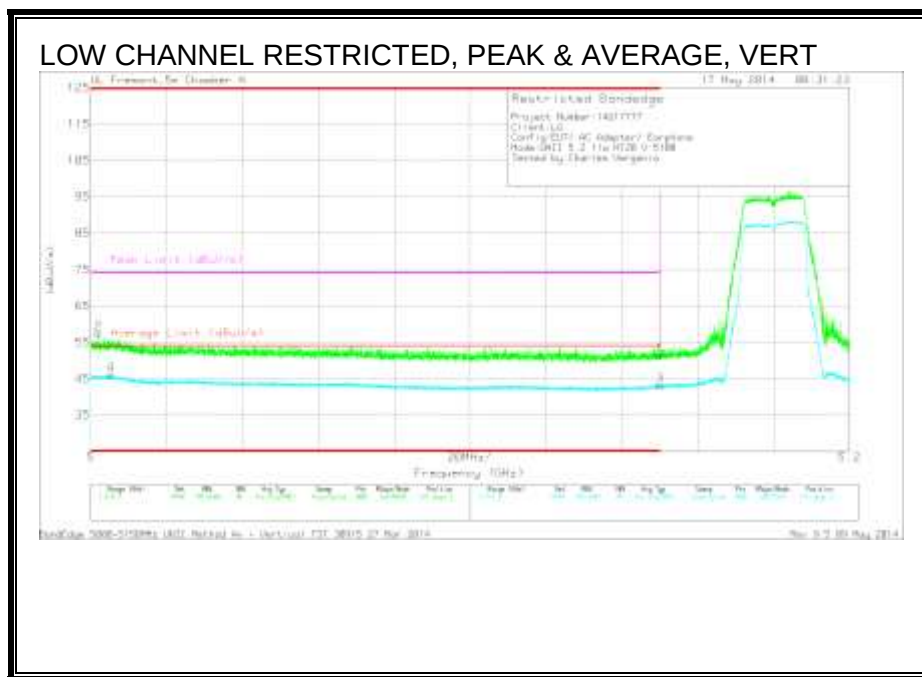
10.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)



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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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	* 5.15	37.97	PK	34	-20.5	0	51.47	-	-	74	-22.53	311	269	V
2	* 5.002	43.25	PK	33.9	-19.7	0	57.45	-	-	74	-16.55	311	269	V
3	* 5.15	29.55	RMS	34	-20.5	.2	43.25	54	-10.75	-	-	311	269	V
4	* 5.005	31.66	RMS	33.9	-19.6	.2	46.16	54	-7.84	-	-	311	269	V

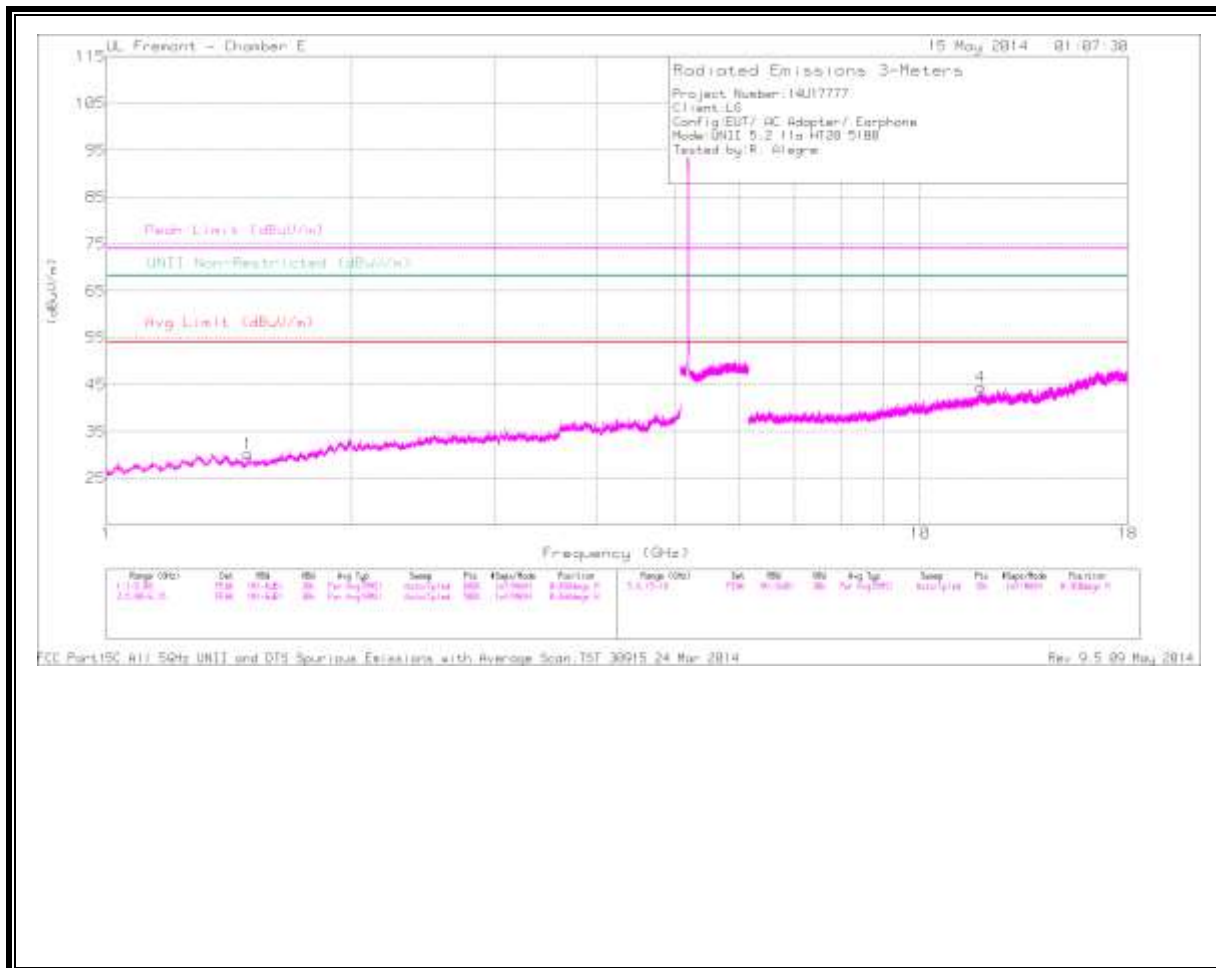
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

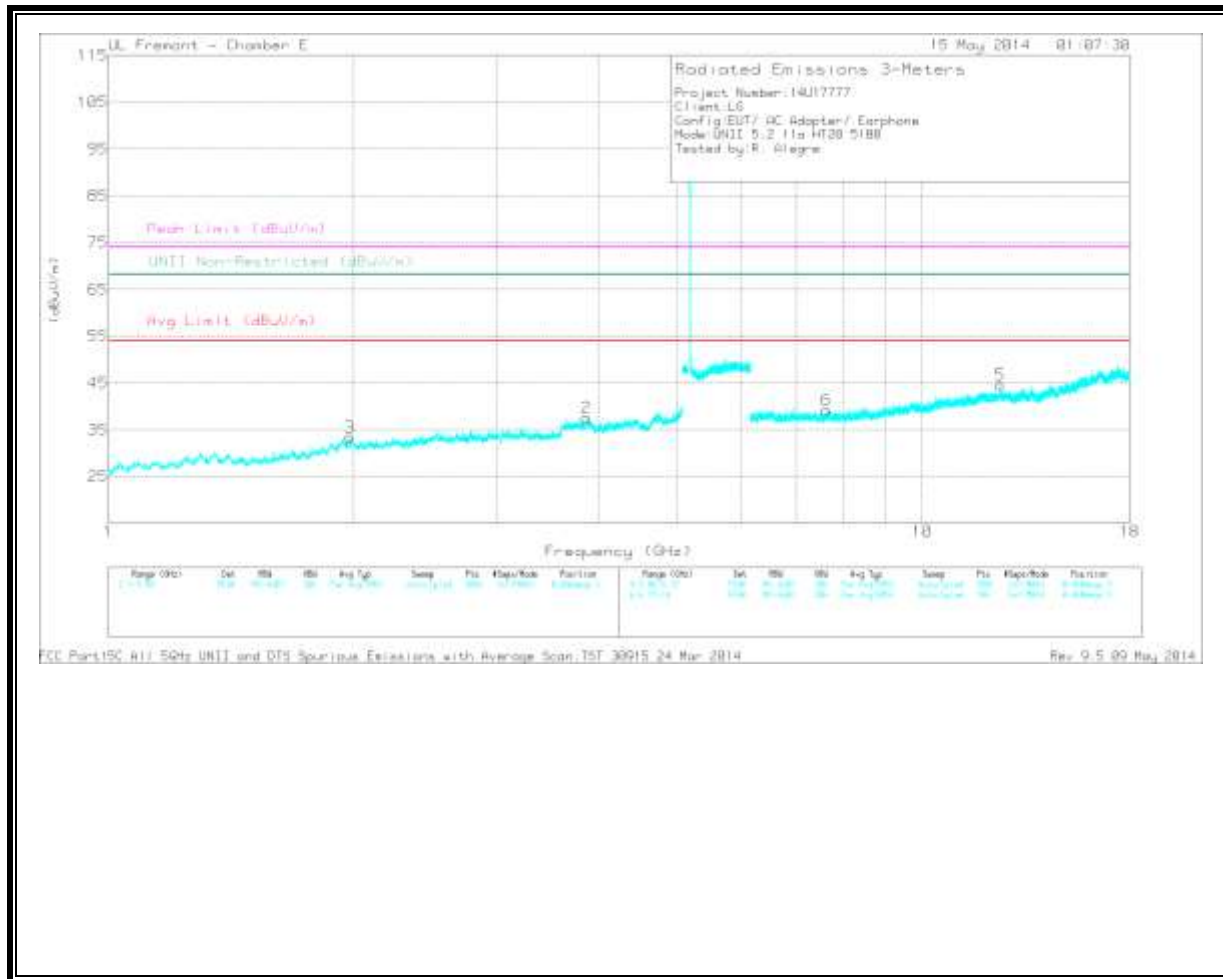
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.493	36.3	PK	28.4	-34.5	0	30.2	-	-	74	-43.8	-	-	0-360	200	H
2	* 3.87	34.79	PK	33.5	-30.6	0	37.69	-	-	74	-36.31	-	-	0-360	199	V
4	* 11.867	29.47	PK	38.5	-23.5	0	44.47	-	-	74	-29.53	-	-	0-360	101	H
5	* 12.474	29.14	PK	39	-23.5	0	44.64	-	-	74	-29.36	-	-	0-360	101	V
6	* 7.629	31.19	PK	35.8	-27.6	0	39.39	-	-	74	-34.61	-	-	0-360	200	V
3	1.98	34.74	PK	31.3	-32.6	0	33.44	-	-	-	-	68.2	-34.76	0-360	101	V

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

PK - Peak detector

Radiated Emissions

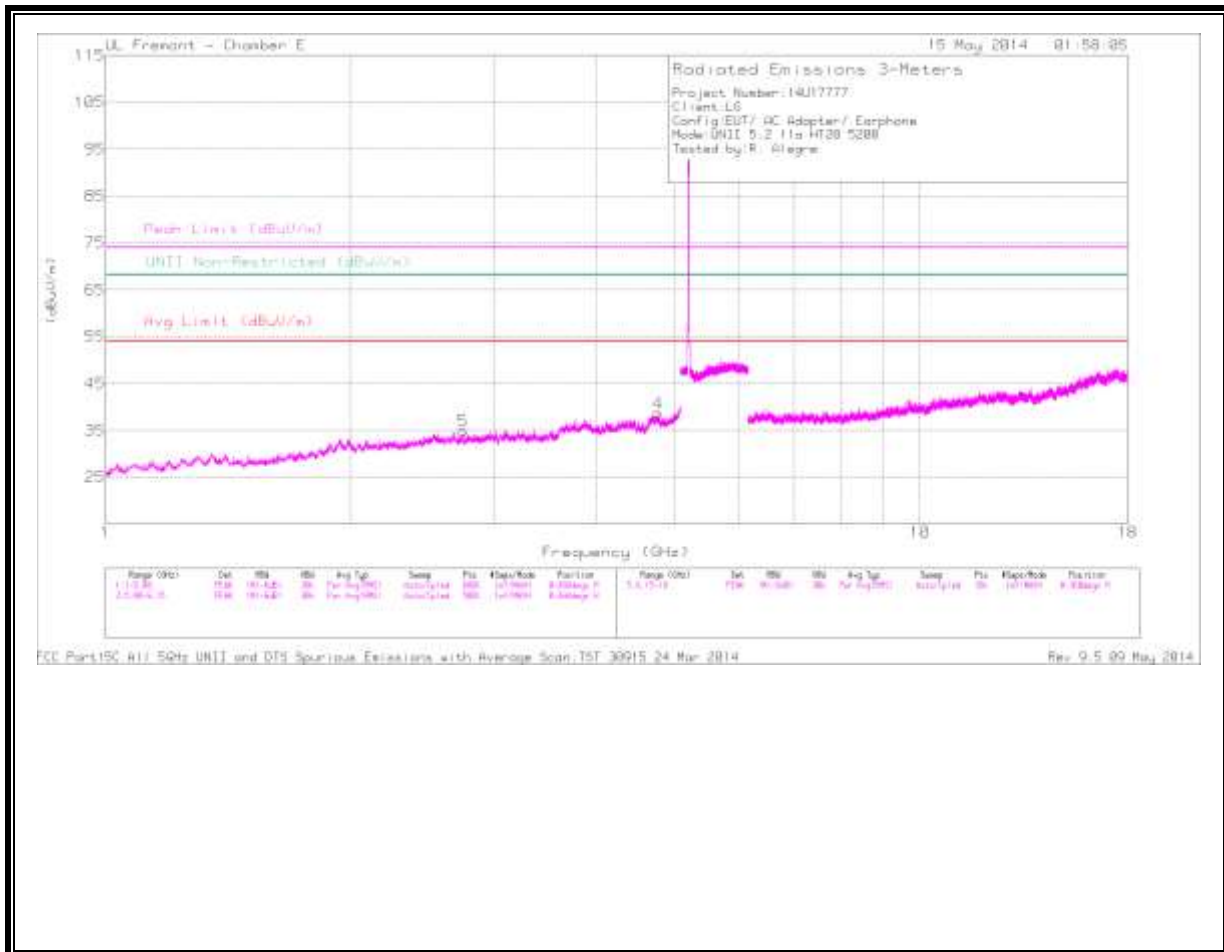
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.494	43.74	PK1	28.4	-34.5	0	37.64	-	-	74	-36.36	-	-	2	235	H
* 3.871	41.51	PK1	33.5	-30.6	0	44.41	-	-	74	-29.59	-	-	2	235	V
* 11.863	36.43	PK1	38.5	-23.4	0	51.53	-	-	74	-22.47	-	-	2	235	H
* 12.471	36.31	PK1	39	-23.5	0	51.81	-	-	74	-22.19	-	-	2	235	V
* 12.476	24.93	AD1	39	-23.5	-2	40.63	54	-13.37	-	-	-	-	2	235	V
* 7.629	40.19	PK1	35.8	-27.6	0	48.39	-	-	74	-25.61	-	-	2	235	V

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

PK1 - KDB789033 Method: Peak

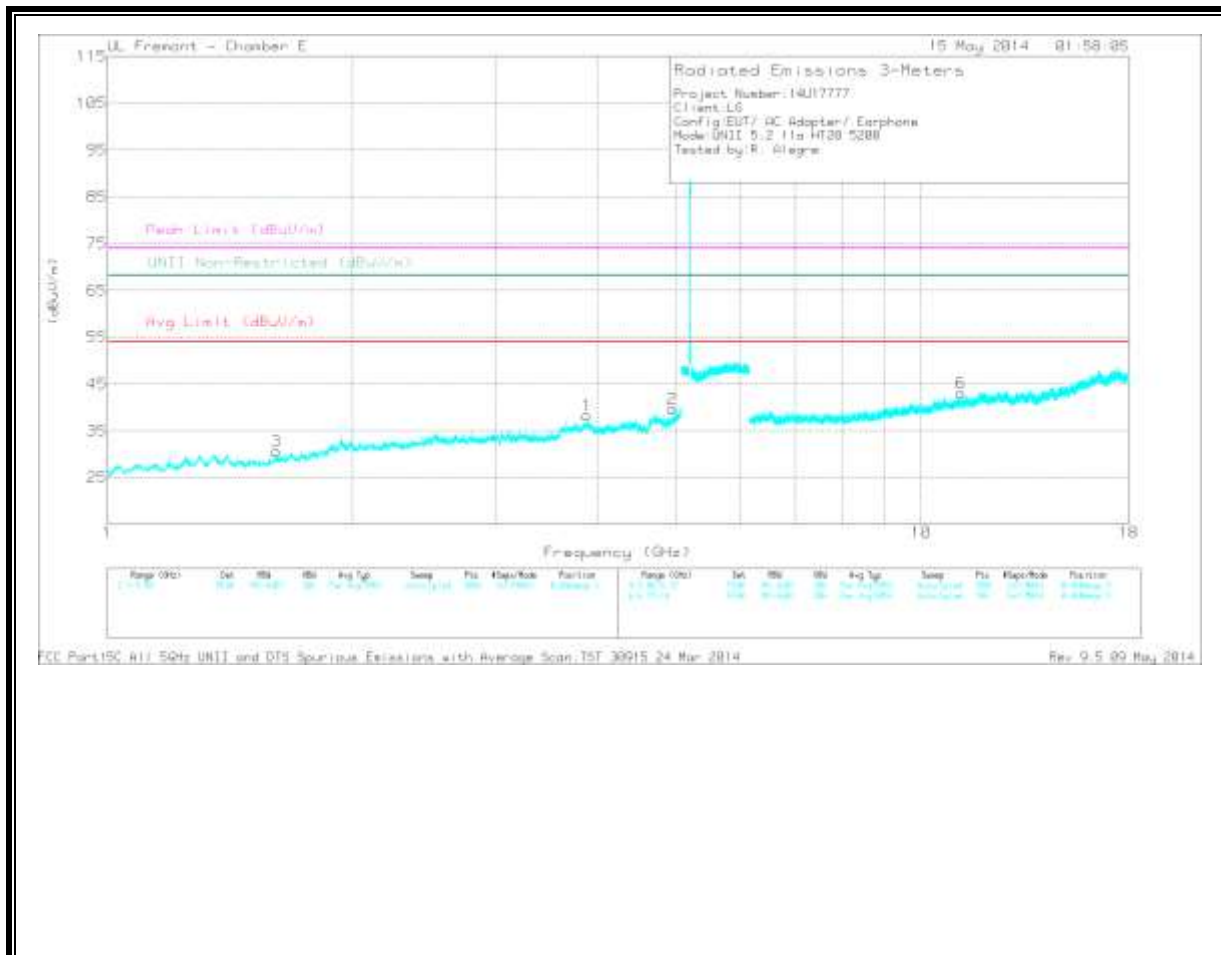
AD1 - KDB789033 Method: AD Primary Power Average

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.

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.77	35.1	PK	34.1	-30.5	0	38.7	-	-	74	-35.3	-	-	0-360	101	H
5	* 2.748	34.75	PK	32.4	-32.2	0	34.95	-	-	74	-39.05	-	-	0-360	101	H
1	* 3.88	35.32	PK	33.5	-30.5	0	38.32	-	-	74	-35.68	-	-	0-360	200	V
2	* 4.946	35.2	PK	34.1	-29.6	0	39.7	-	-	74	-34.3	-	-	0-360	101	V
3	* 1.613	35.59	PK	28.5	-33.5	0	30.59	-	-	74	-43.41	-	-	0-360	101	V
6	* 11.197	28.56	PK	37.9	-23.4	0	43.06	-	-	74	-30.94	-	-	0-360	200	V

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

PK - Peak detector

Radiated Emissions

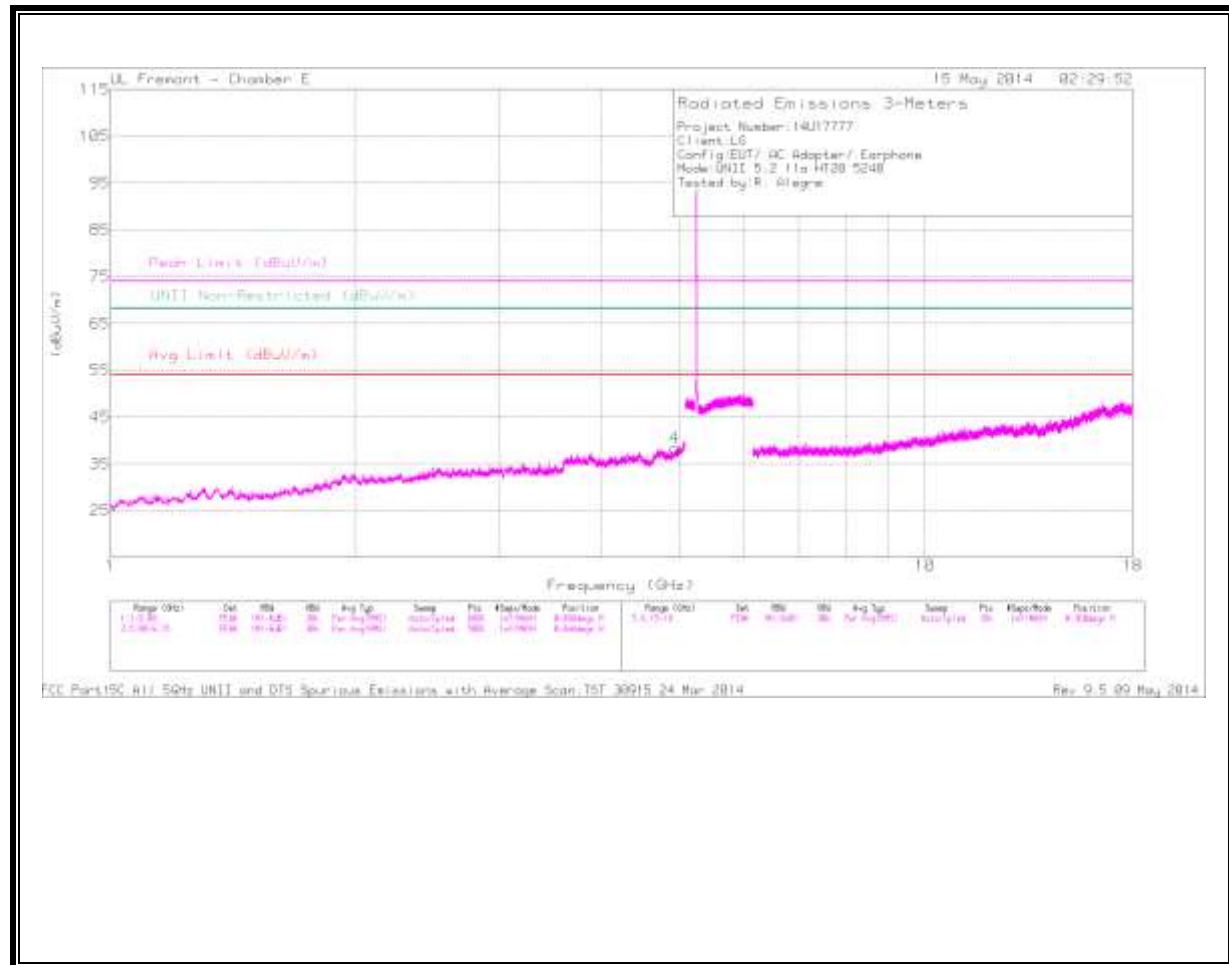
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.769	41.01	PK1	34.1	-30.5	0	44.61	-	-	74	-29.39	-	-	0	101	H
* 2.747	41.85	PK1	32.4	-32.2	0	42.05	-	-	74	-31.95	-	-	0	101	H
* 4.948	41.03	PK1	34.1	-29.7	0	45.43	-	-	74	-28.57	-	-	0	101	V
* 4.951	30.35	AD1	34.1	-29.7	.2	34.95	54	-19.05	-	-	-	-	0	101	V
* 1.618	42.54	PK1	28.5	-33.5	0	37.54	-	-	74	-36.46	-	-	0	101	V
* 11.196	36.18	PK1	37.9	-23.4	0	50.68	-	-	74	-23.32	-	-	0	101	V
* 11.198	24.94	AD1	37.9	-23.5	.2	39.54	54	-14.46	-	-	-	-	0	101	V

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

PK1 - KDB789033 Method: Peak

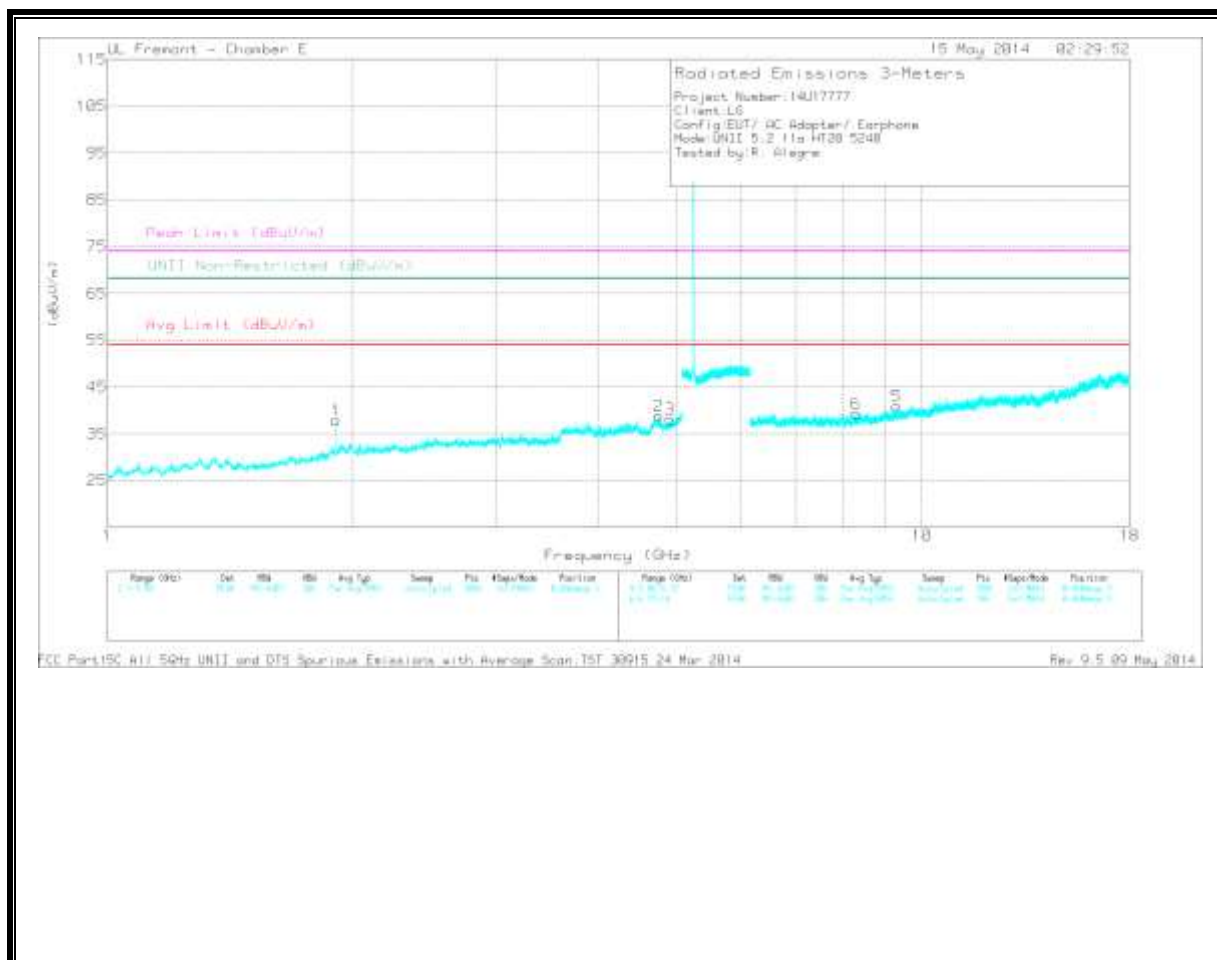
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL
HORIZONTAL



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

VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 4.927	34.1	PK	34.1	-29.8	0	38.4	-	-	74	-35.6	-	-	0-360	101	H
2	* 4.754	35.36	PK	34.1	-30.6	0	38.86	-	-	74	-35.14	-	-	0-360	101	V
3	* 4.903	33.89	PK	34	-29.7	0	38.19	-	-	74	-35.81	-	-	0-360	101	V
5	* 9.31	29.92	PK	36.7	-25.6	0	41.02	-	-	74	-32.98	-	-	0-360	200	V
6	* 8.295	30.46	PK	35.8	-26.9	0	39.36	-	-	74	-34.64	-	-	0-360	101	V
1	1.908	39.76	PK	31.1	-32.9	0	37.96	-	-	-	-	68.2	-30.24	0-360	200	V

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

PK - Peak detector

Radiated Emissions

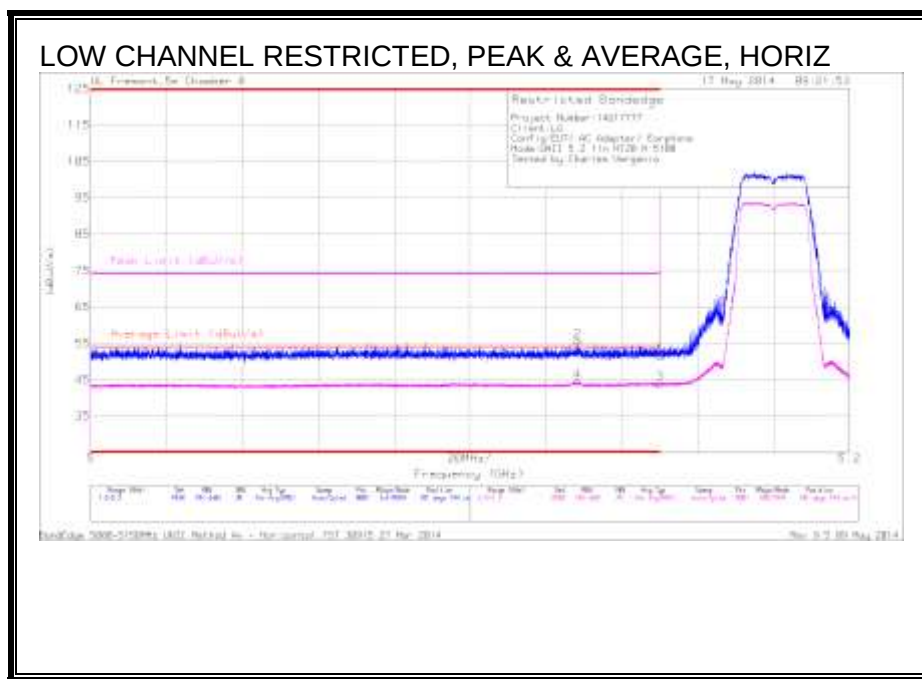
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.925	41.3	PK1	34.1	-29.8	0	45.6	-	-	74	-28.4	-	-	151	356	H
* 4.752	41.64	PK1	34.1	-30.6	0	45.14	-	-	74	-28.86	-	-	151	356	V
* 4.901	41.13	PK1	34	-29.7	0	45.43	-	-	74	-28.57	-	-	151	356	V
* 9.31	36.74	PK1	36.7	-25.6	0	47.84	-	-	74	-26.16	-	-	151	356	V
* 8.293	38.44	PK1	35.8	-26.9	0	47.34	-	-	74	-26.66	-	-	151	356	V
1.909	30.13	AD1	31.1	-32.9	.2	28.53	-	-	-	-	-	-	151	356	V
1.91	42.29	PK1	31.1	-32.9	0	40.49	-	-	-	-	68.2	-27.71	151	356	V

* - 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)

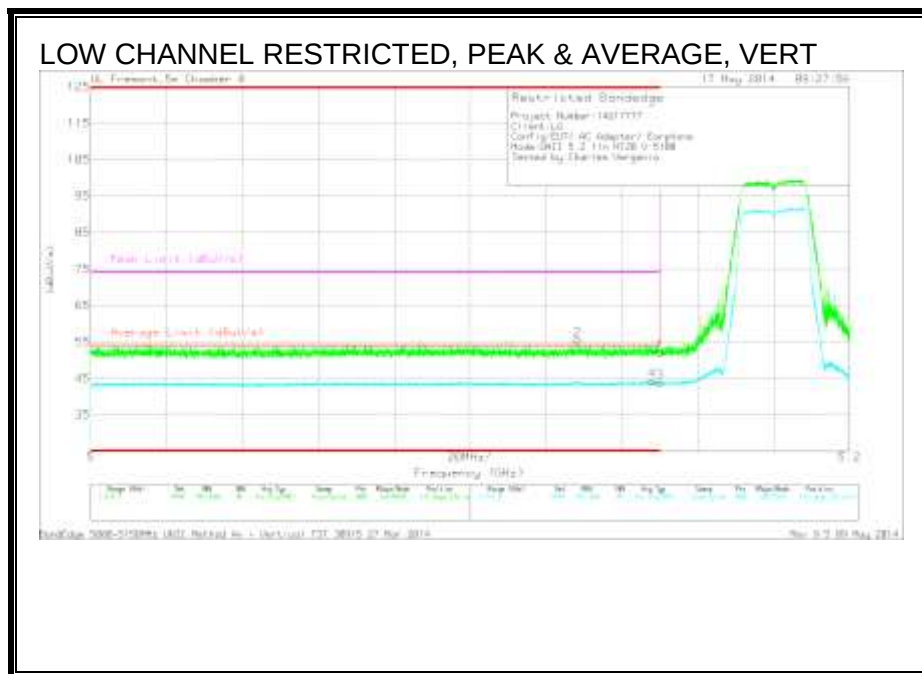


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.7	PK	34.3	-20.3	0	51.7	-	-	74	-22.3	101	194	H
2	* 5.128	41.57	PK	34.3	-20.2	0	55.67	-	-	74	-18.33	101	194	H
3	* 5.15	29.7	RMS	34.3	-20.3	.2	43.9	54	-10.1	-	-	101	194	H
4	* 5.128	30.23	RMS	34.3	-20.2	.2	44.53	54	-9.47	-	-	101	194	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.32	PK	34.3	-20.3	0	52.32	-	-	74	-21.68	137	232	V
2	* 5.128	41.52	PK	34.3	-20.2	0	55.62	-	-	74	-18.38	137	232	V
3	* 5.15	29.73	RMS	34.3	-20.3	.2	43.93	54	-10.07	-	-	137	232	V
4	* 5.148	30.3	RMS	34.3	-20.3	.2	44.5	54	-9.5	-	-	137	232	V

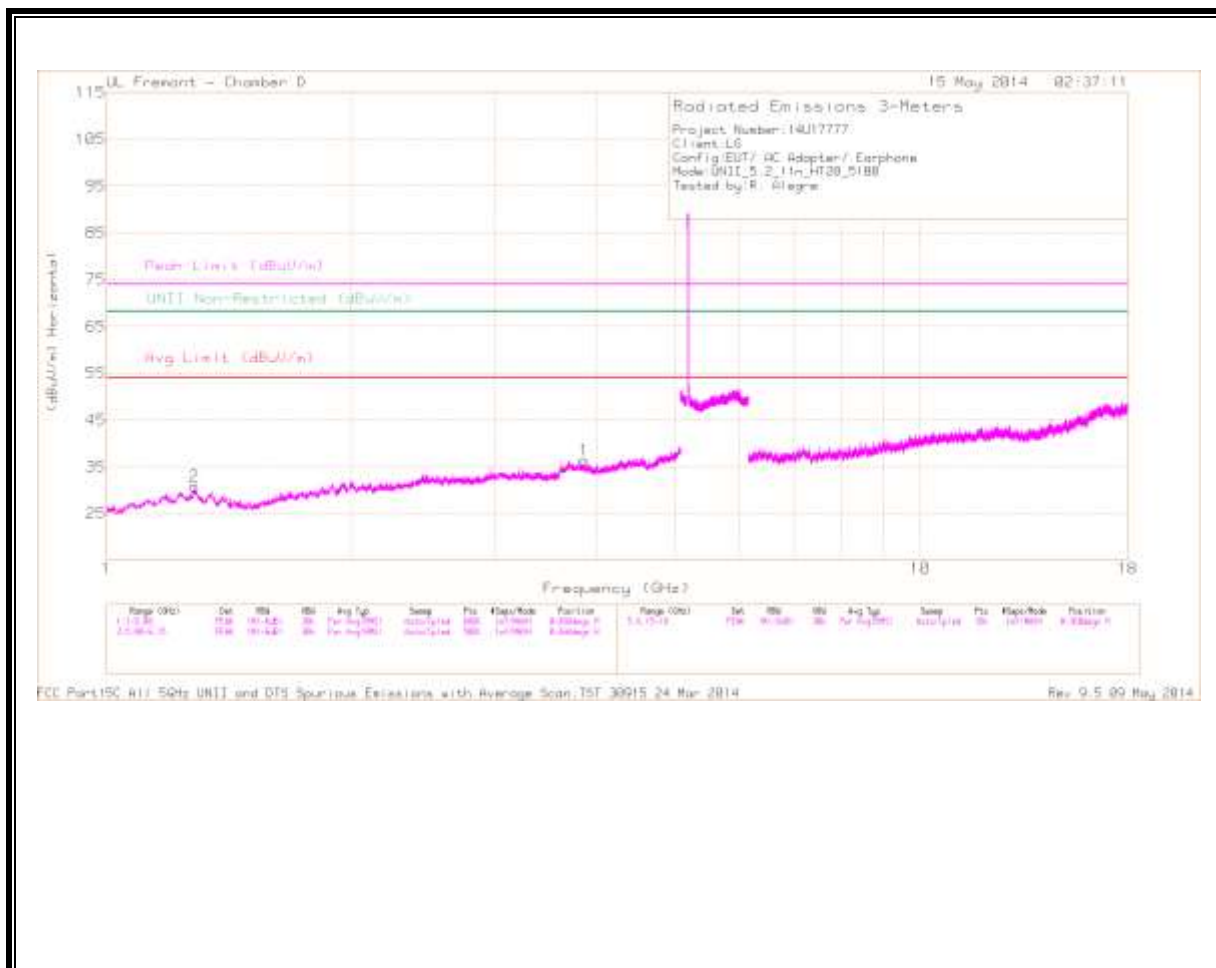
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

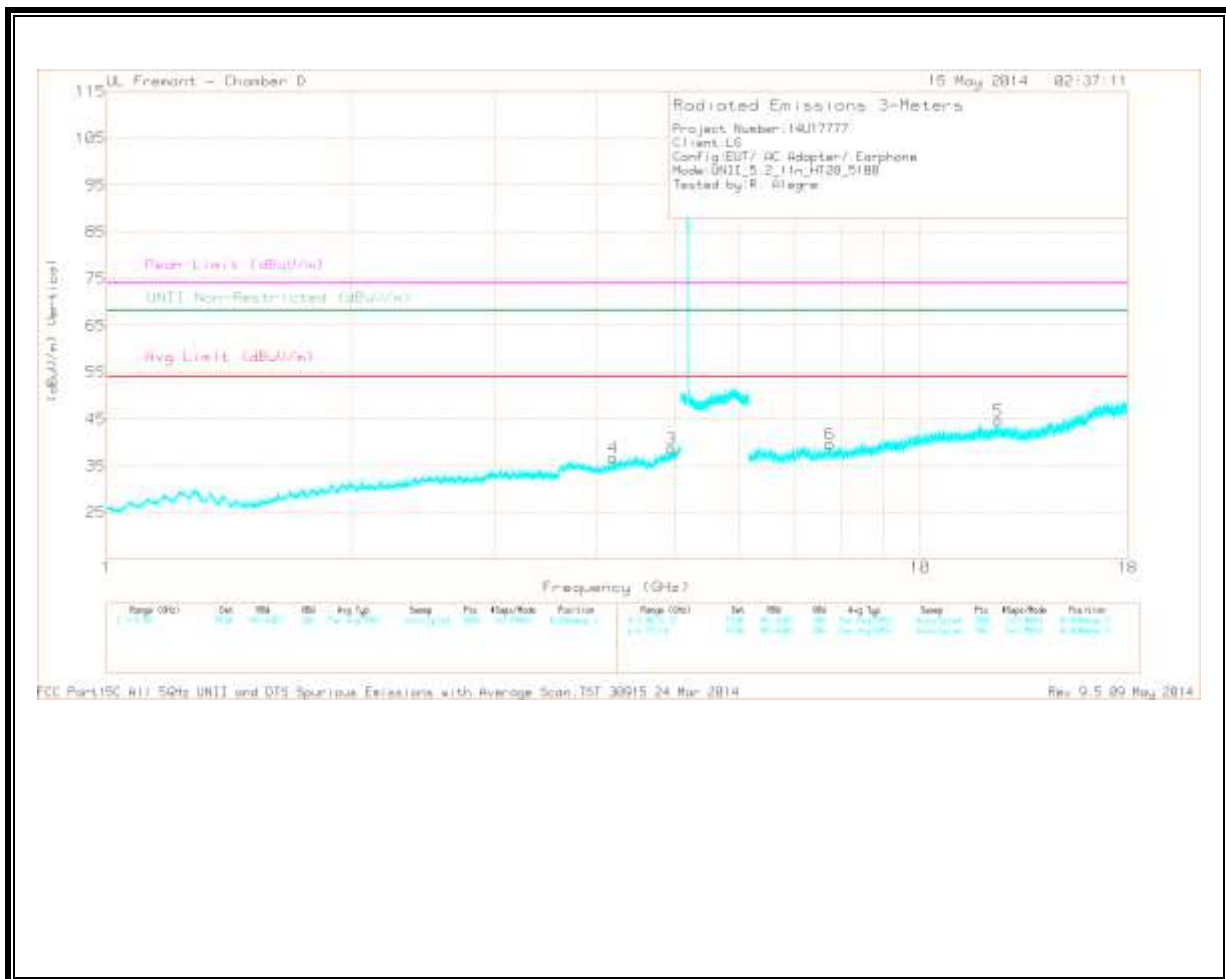
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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	* 3.861	32.29	PK	32.8	-28.6	0	36.49	-	-	74	-37.51	-	-	0-360	201	H
2	* 1.282	33.03	PK	29.3	-31.4	0	30.93	-	-	74	-43.07	-	-	0-360	201	H
3	* 4.949	31.34	PK	33.5	-26.2	0	38.64	-	-	74	-35.36	-	-	0-360	100	V
4	* 4.195	32.21	PK	32.9	-28.4	0	36.71	-	-	74	-37.29	-	-	0-360	100	V
5	* 12.472	27.3	PK	38.5	-21.1	0	44.7	-	-	74	-29.3	-	-	0-360	100	V
6	* 7.743	28.73	PK	35.1	-24.1	0	39.73	-	-	74	-34.27	-	-	0-360	100	V

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

PK - Peak detector

Radiated Emissions

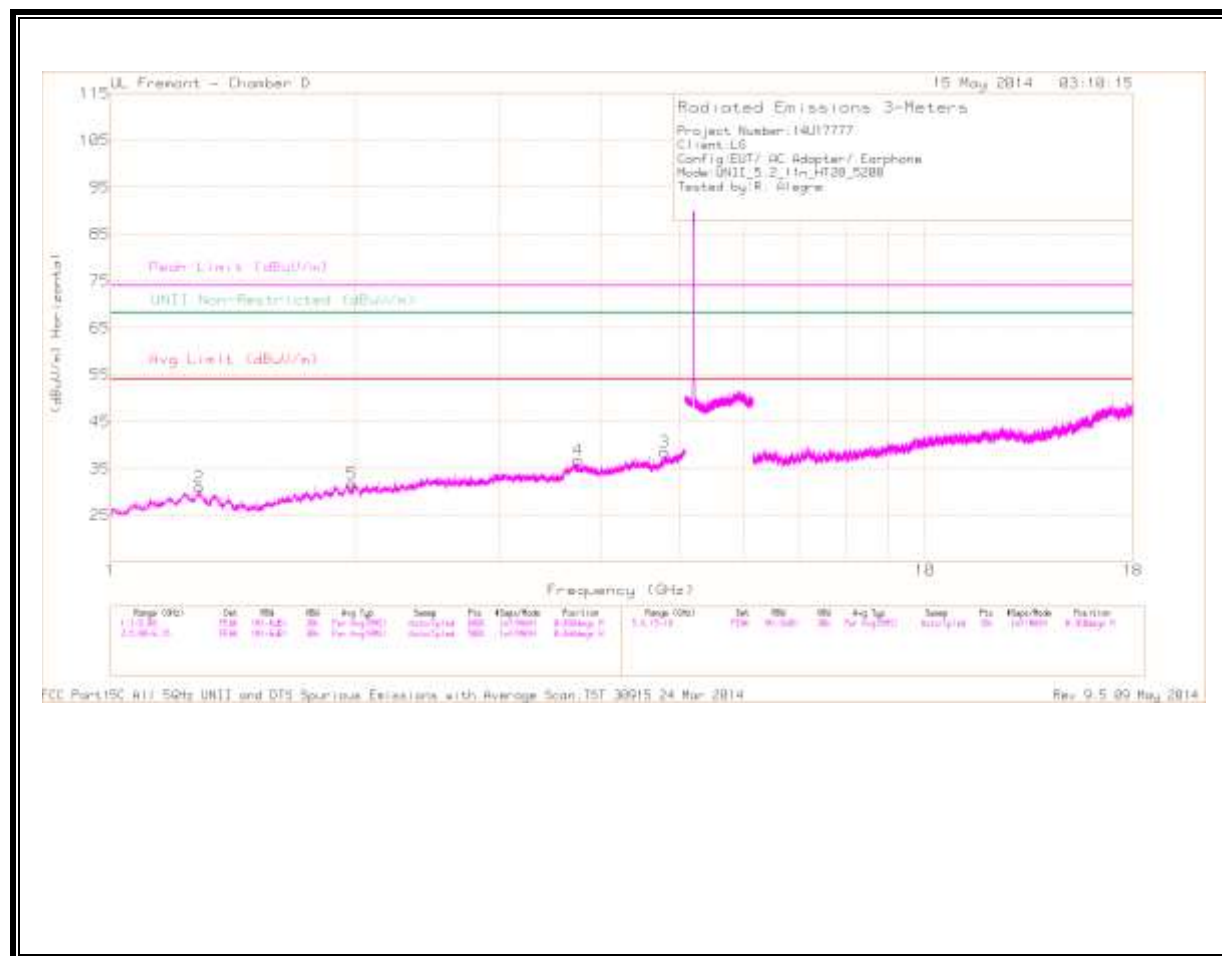
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.283	40.38	PK1	29.2	-31.3	0	38.28	-	-	74	-35.72	-	-	360	100	H
* 3.859	38.59	PK1	32.8	-28.7	0	42.69	-	-	74	-31.31	-	-	360	100	H
* 4.196	38.75	PK1	32.9	-28.5	0	43.15	-	-	74	-30.85	-	-	360	100	V
* 4.949	37.39	PK1	33.5	-26.2	0	44.69	-	-	74	-29.31	-	-	360	100	V
* 12.473	34.22	PK1	38.5	-21.1	0	51.62	-	-	74	-22.38	-	-	360	100	V
* 12.471	23.79	AD1	38.5	-21.2	.2	41.29	54	-12.71	-	-	-	-	360	100	V
* 7.745	36.35	PK1	35.1	-24.1	0	47.35	-	-	74	-26.65	-	-	360	100	V

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

PK1 - KDB789033 Method: Peak

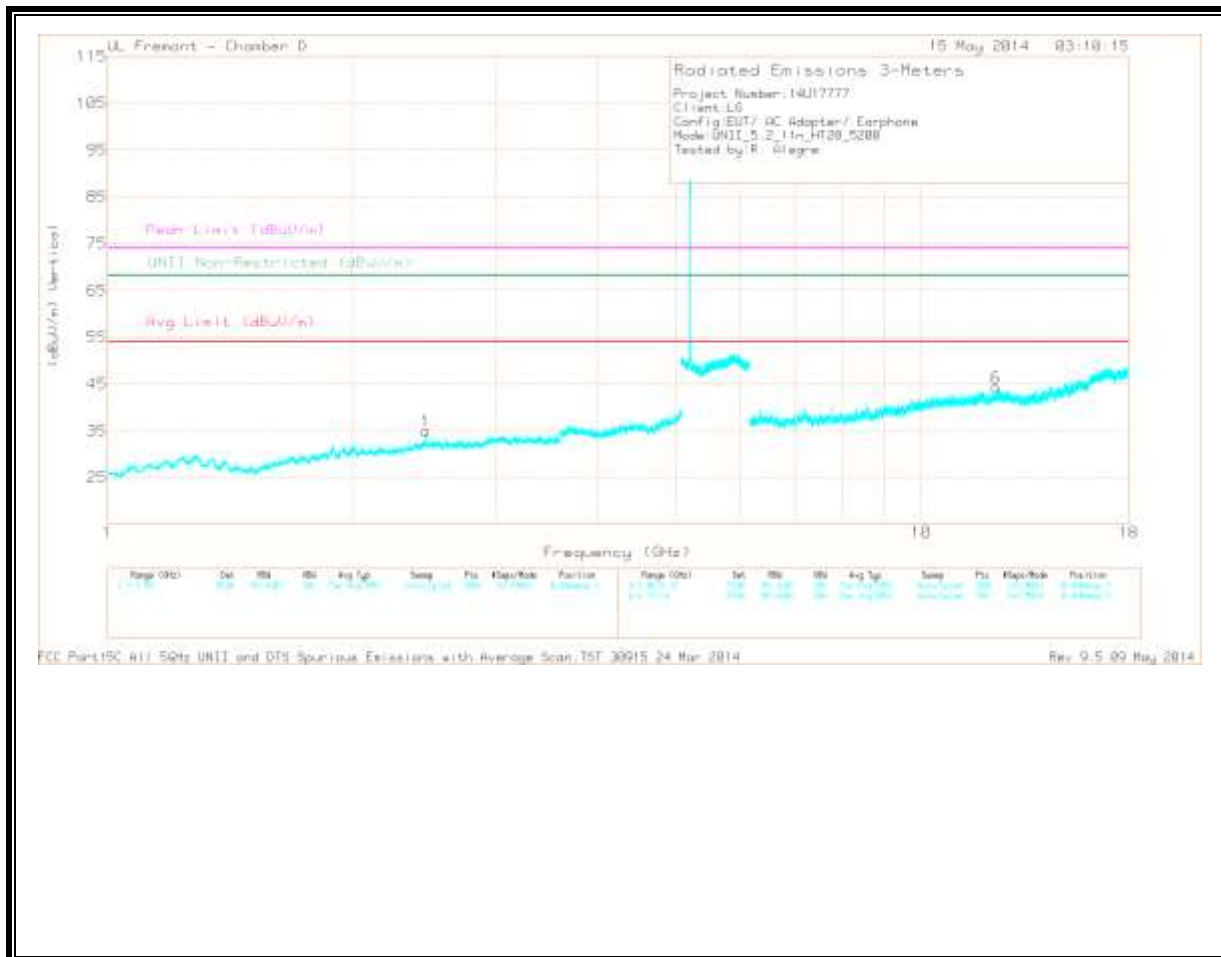
AD1 - KDB789033 Method: AD Primary Power Average

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.

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.285	33.1	PK	29.2	-31.3	0	31	-	-	74	-43	-	-	0-360	201	H
3	* 4.79	31.96	PK	33.5	-26.9	0	38.56	-	-	74	-35.44	-	-	0-360	100	H
4	* 3.749	32.84	PK	32.7	-28.7	0	36.84	-	-	74	-37.16	-	-	0-360	201	H
6	* 12.379	27.17	PK	38.5	-21.4	0	44.27	-	-	74	-29.73	-	-	0-360	100	V
5	1.98	31.82	PK	30.6	-30.6	0	31.82	-	-	-	-	68.2	-36.38	0-360	201	H
1	2.461	32.81	PK	31.9	-29.8	0	34.91	-	-	-	-	68.2	-33.29	0-360	100	V

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

PK - Peak detector

Radiated Emissions

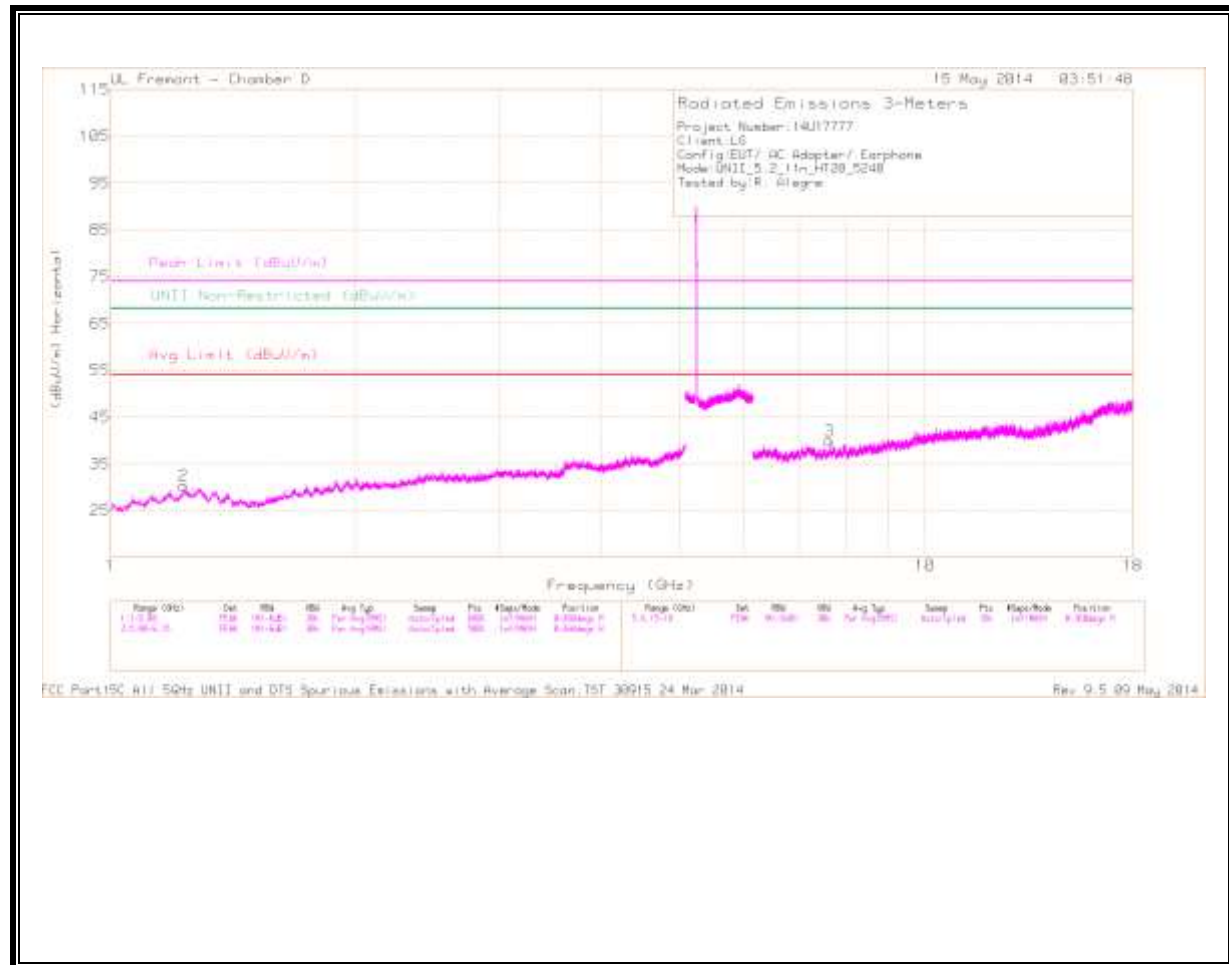
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.747	38.48	PK1	32.7	-28.7	0	42.48	-	-	74	-31.52	-	-	360	100	H
* 4.788	38.33	PK1	33.5	-26.9	0	44.93	-	-	74	-29.07	-	-	360	100	H
* 1.286	40.33	PK1	29.2	-31.2	0	38.33	-	-	74	-35.67	-	-	360	100	H
* 12.38	34.41	PK1	38.5	-21.4	0	51.51	-	-	74	-22.49	-	-	360	100	V
* 12.377	23.58	AD1	38.5	-21.6	-2	40.68	54	-13.32	-	-	-	-	360	100	V
2.458	38.79	PK1	31.9	-29.8	0	40.89	-	-	-	-	68.2	-27.31	360	100	V

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

PK1 - KDB789033 Method: Peak

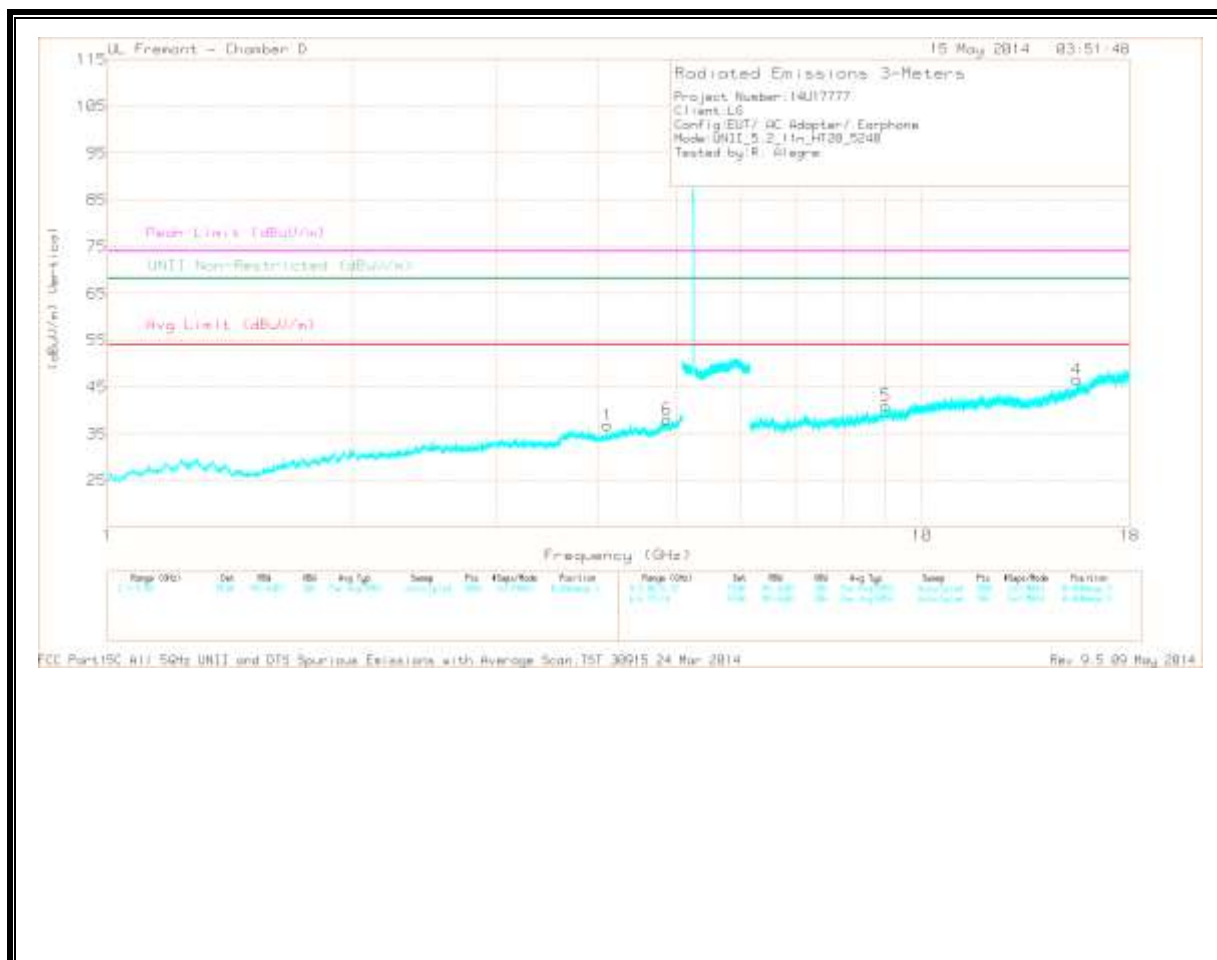
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL
HORIZONTAL



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

VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.229	32.9	PK	29.3	-31.8	0	30.4	-	-	74	-43.6	-	-	0-360	100	H
1	* 4.112	32.13	PK	32.9	-28.2	0	36.83	-	-	74	-37.17	-	-	0-360	100	V
6	* 4.86	32.21	PK	33.5	-27.5	0	38.21	-	-	74	-35.79	-	-	0-360	100	V
3	* 7.629	30.15	PK	35.1	-25.3	0	39.95	-	-	74	-34.05	-	-	0-360	100	H
4	* 15.492	27.53	PK	39.7	-20.5	0	46.73	-	-	74	-27.27	-	-	0-360	201	V
5	* 9.037	28.19	PK	35.8	-22.9	0	41.09	-	-	74	-32.91	-	-	0-360	201	V

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

PK - Peak detector

Radiated Emissions

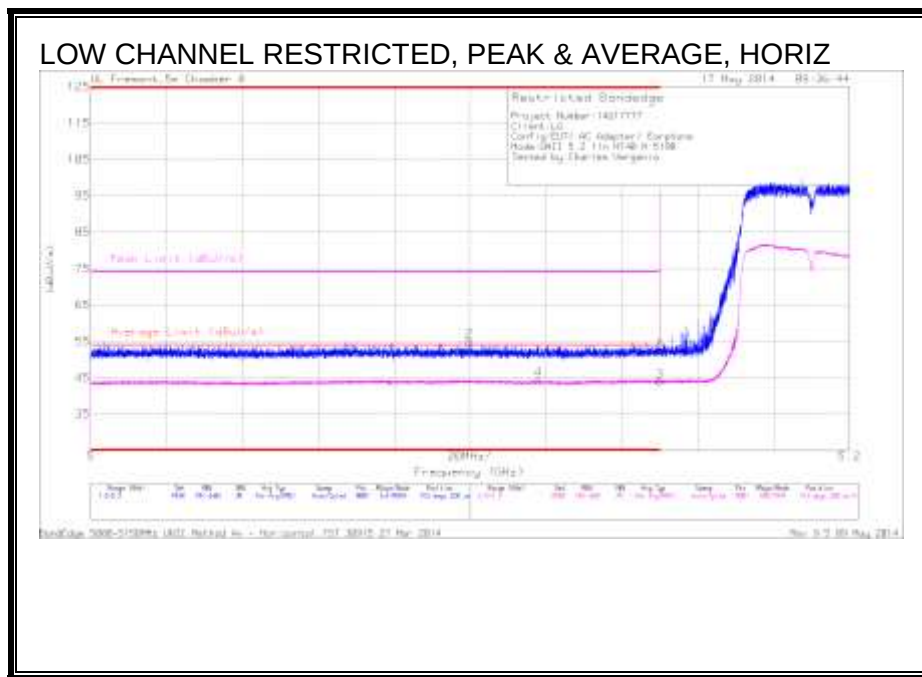
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/F tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.228	40.4	PK1	29.3	-31.8	0	37.9	-	-	74	-36.1	-	-	334	100	H
* 4.109	38.15	PK1	32.9	-28.3	0	42.75	-	-	74	-31.25	-	-	334	100	V
* 4.86	38.51	PK1	33.5	-27.5	0	44.51	-	-	74	-29.49	-	-	334	100	V
* 7.63	36.63	PK1	35.1	-25.3	0	46.43	-	-	74	-27.57	-	-	360	100	H
* 7.627	25.74	AD1	35.1	-25.4	.2	35.64	54	-18.36	-	-	-	-	360	100	H
* 15.492	34.57	PK1	39.7	-20.6	0	53.67	-	-	74	-20.33	-	-	360	100	V
* 15.491	23.59	AD1	39.7	-20.6	.2	42.89	54	-11.11	-	-	-	-	360	100	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

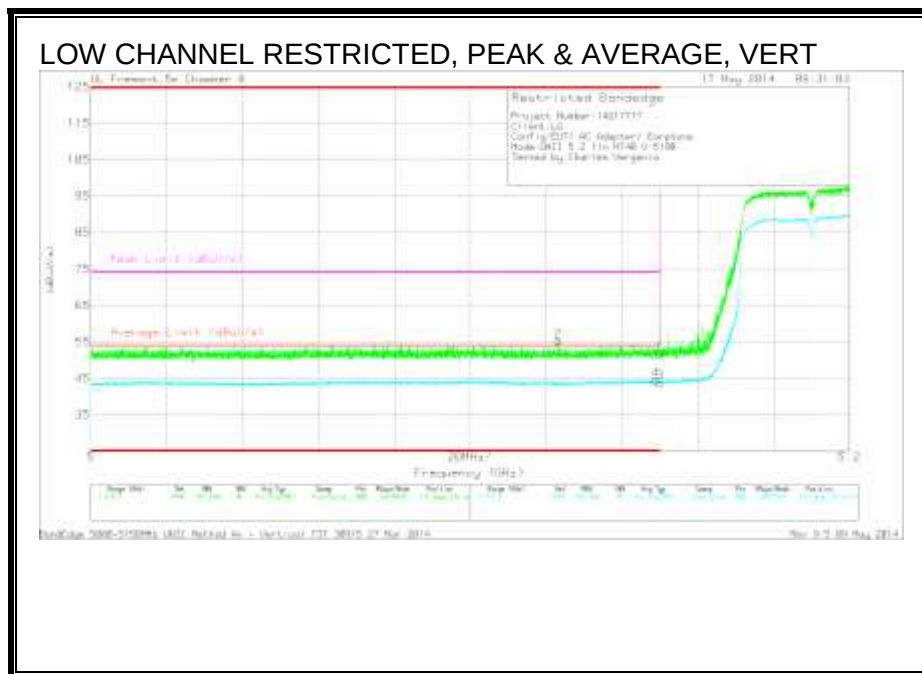


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.49	PK	34.3	-20.3	0	52.49	-	-	74	-21.51	153	320	H
2	* 5.1	40.9	PK	34.2	-20	0	55.1	-	-	74	-18.9	153	320	H
3	* 5.15	29.56	RMS	34.3	-20.3	.5	44.06	54	-9.94	-	-	153	320	H
4	* 5.118	30.01	RMS	34.3	-20.2	.5	44.61	54	-9.39	-	-	153	320	H

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

PK - Peak detector

RMS - RMS detection



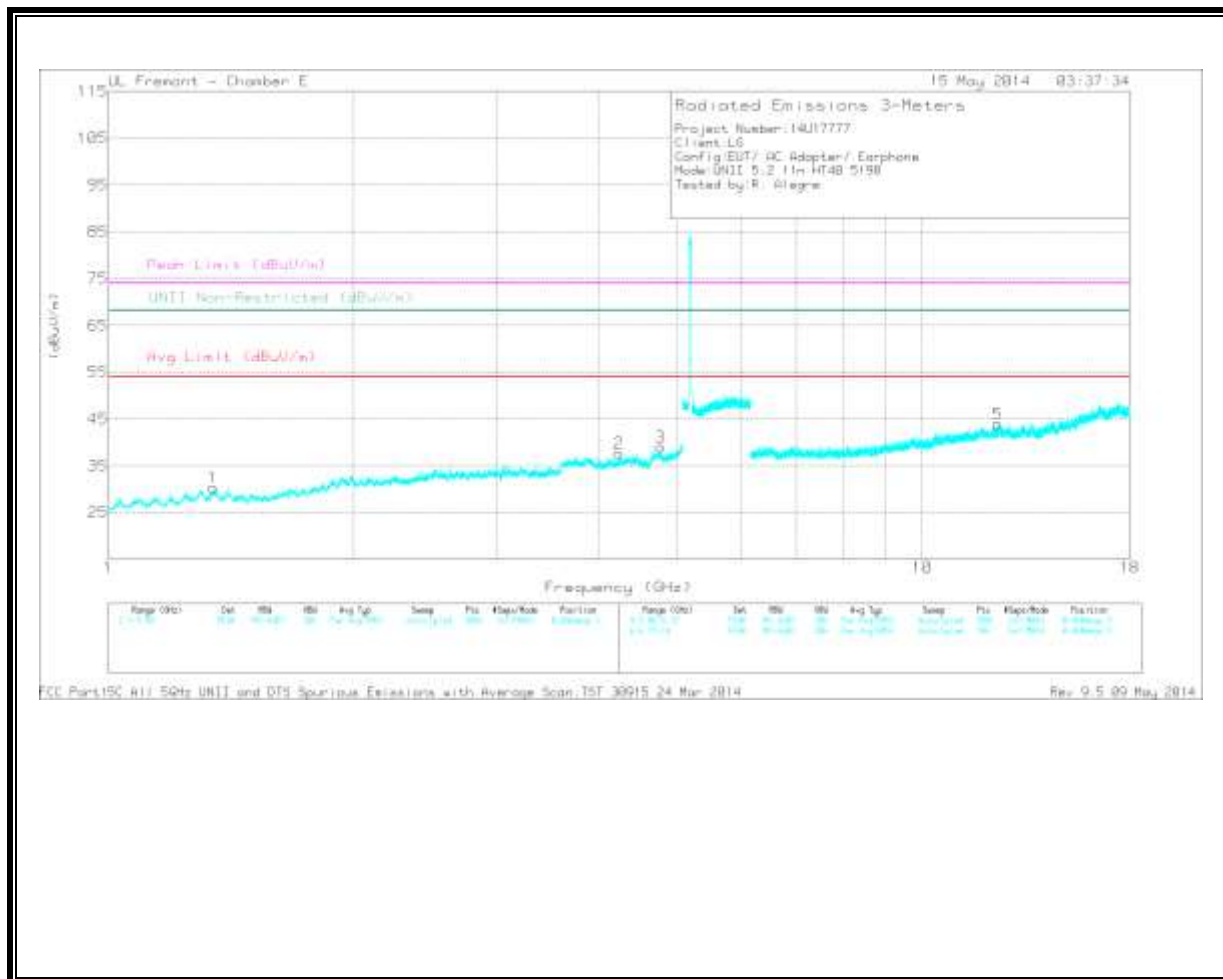
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.65	PK	34.3	-20.3	0	51.65	-	-	74	-22.35	137	232	V
2	* 5.123	41.13	PK	34.3	-20.2	0	55.23	-	-	74	-18.77	137	232	V
3	* 5.15	29.31	RMS	34.3	-20.3	.5	43.81	54	-10.19	-	-	137	232	V
4	* 5.149	30.08	RMS	34.3	-20.3	.5	44.58	54	-9.42	-	-	137	232	V

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

PK - Peak detector

RMS - RMS detection

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

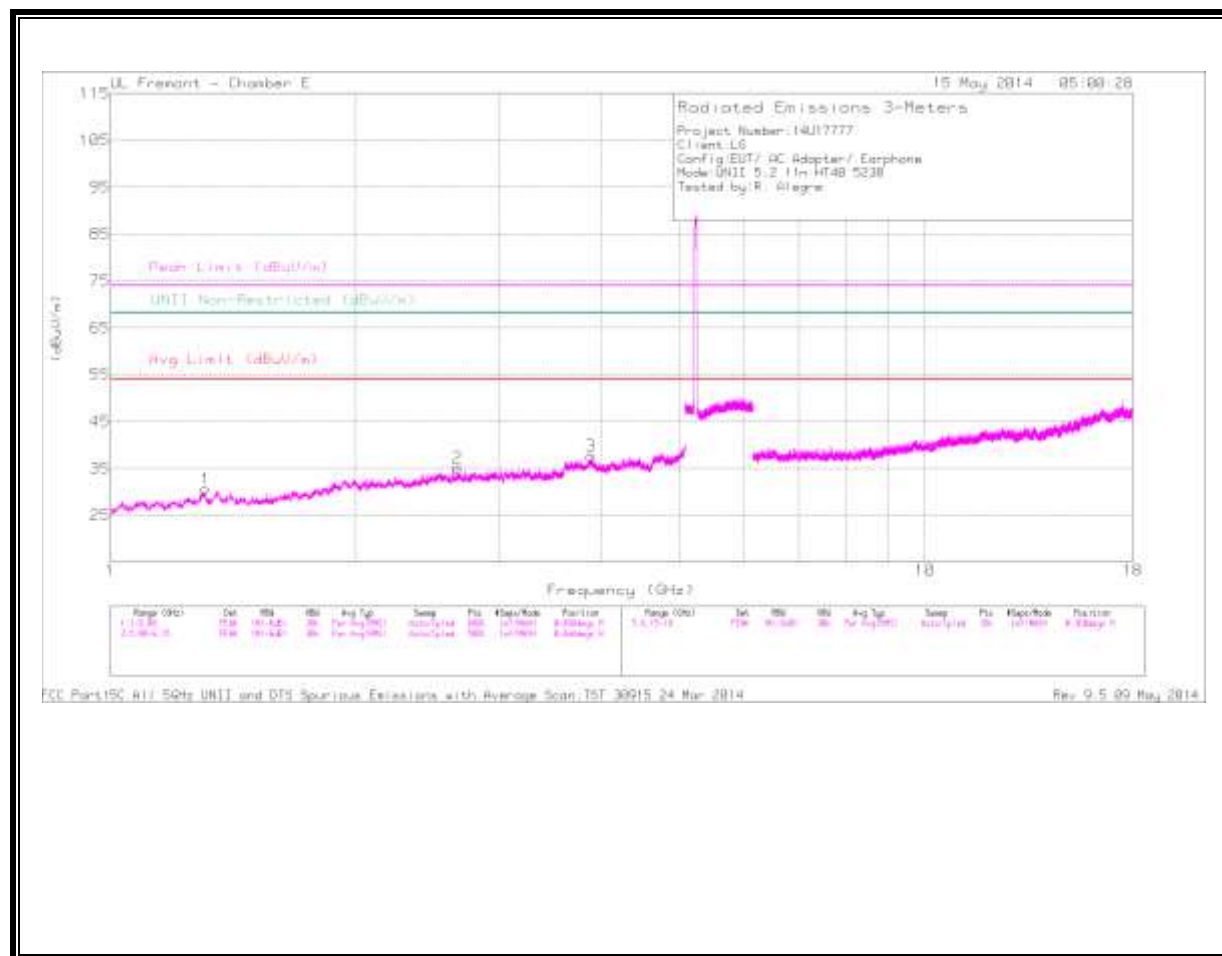
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.878	41.66	PK1	33.5	-30.5	0	44.66	-	-	74	-29.34	-	-	1	101	H
* 1.342	43.26	PK1	28.9	-33.9	0	38.26	-	-	74	-35.74	-	-	1	101	V
* 4.235	42.17	PK1	33.4	-31.3	0	44.27	-	-	74	-29.73	-	-	1	101	V
* 4.769	40.81	PK1	34.1	-30.5	0	44.41	-	-	74	-29.59	-	-	1	101	V
* 4.77	41.24	PK1	34.1	-30.5	0	44.84	-	-	74	-29.16	-	-	1	101	V
* 12.645	36.14	PK1	39	-24.1	0	51.04	-	-	74	-22.96	-	-	1	101	H
* 12.645	25.68	AD1	39	-24.1	.5	41.08	54	-12.92	-	-	-	-	1	101	H
* 12.398	37.82	PK1	38.9	-24.5	0	52.22	-	-	74	-21.78	-	-	1	101	V
* 12.399	25.7	AD1	38.9	-24.5	.5	40.6	54	-13.4	-	-	-	-	1	101	V

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

PK1 - KDB789033 Method: Peak

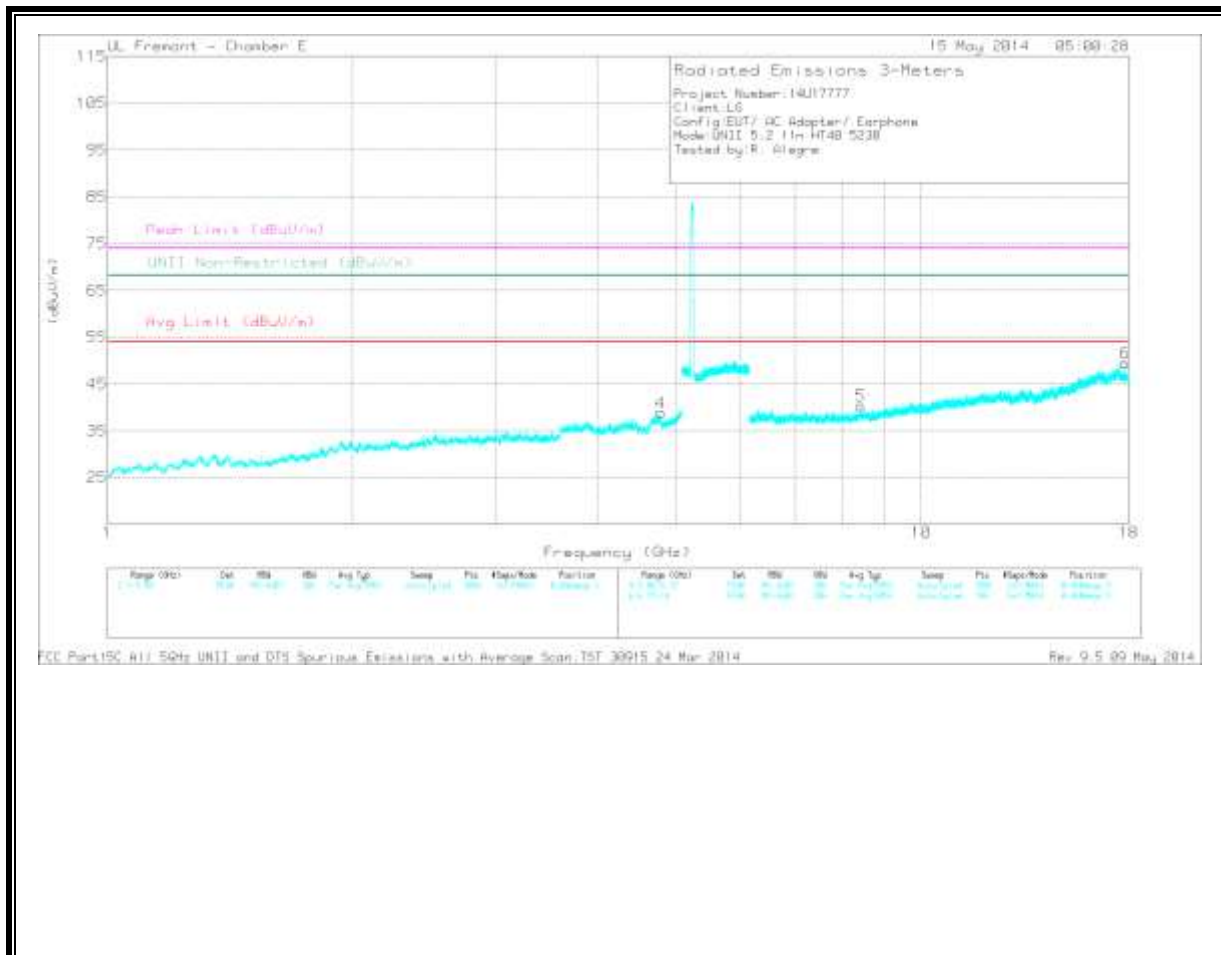
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL
HORIZONTAL



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

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.307	35.7	PK	29	-34.1	0	30.6	-	-	74	-43.4	-	-	0-360	199	H
2	* 2.668	35.07	PK	32.5	-32.4	0	35.17	-	-	74	-38.83	-	-	0-360	101	H
3	* 3.891	34.61	PK	33.5	-30.4	0	37.71	-	-	74	-36.29	-	-	0-360	101	H
4	* 4.784	34.89	PK	34.1	-30.2	0	38.79	-	-	74	-35.21	-	-	0-360	101	V
5	* 8.436	31.53	PK	35.9	-27.1	0	40.33	-	-	74	-33.67	-	-	0-360	200	V
6	* 17.82	28.55	PK	41	-20.1	0	49.45	-	-	74	-24.55	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

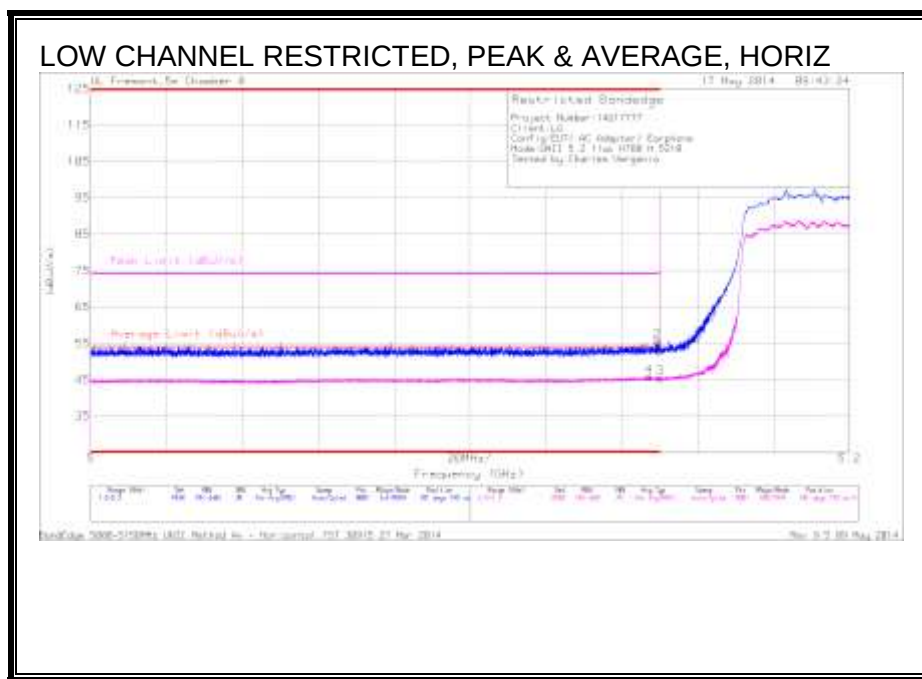
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.305	43.74	PK1	29	-34.1	0	38.64	-	-	74	-35.36	-	-	0	101	H
* 2.669	43.34	PK1	32.5	-32.4	0	43.44	-	-	74	-30.56	-	-	0	101	H
* 3.89	41.78	PK1	33.5	-30.4	0	44.88	-	-	74	-29.12	-	-	0	101	H
* 4.785	41.18	PK1	34.1	-30.2	0	45.08	-	-	74	-28.92	-	-	0	101	V
* 17.818	35.11	PK1	41	-20.1	0	56.01	-	-	74	-17.99	-	-	0	101	V
* 17.819	24.03	AD1	41	-20.1	.5	45.43	54	-8.57	-	-	-	-	0	101	V
* 8.435	38.45	PK1	35.9	-27.1	0	47.25	-	-	74	-26.75	-	-	0	101	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

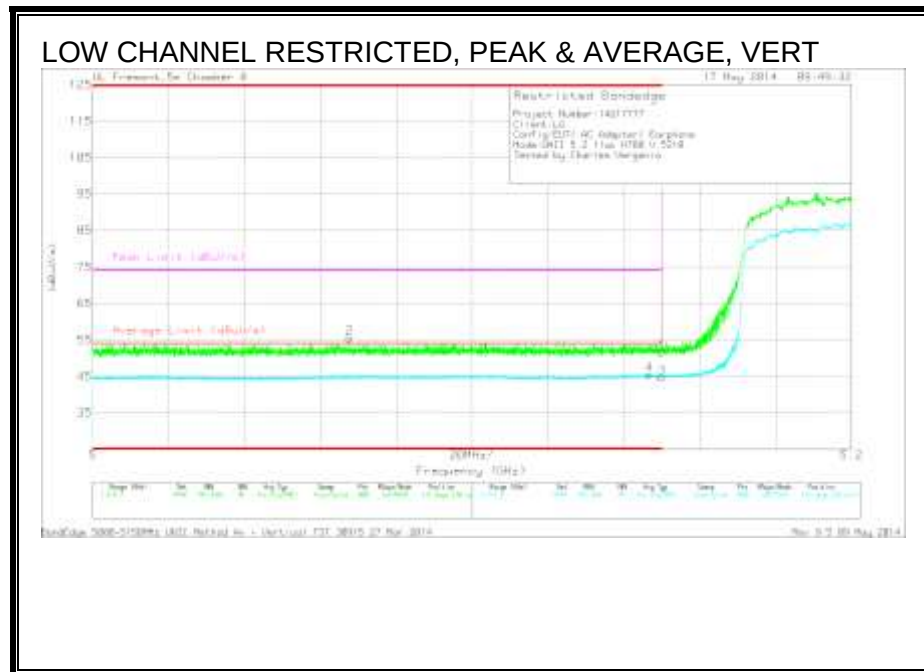


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.92	PK	34.3	-20.3	0	52.92	-	-	74	-21.08	101	195	H
2	* 5.149	41.48	PK	34.3	-20.3	0	55.48	-	-	74	-18.52	101	195	H
3	* 5.15	29.96	RMS	34.3	-20.3	1.5	45.46	54	-8.54	-	-	101	195	H
4	* 5.147	30.36	RMS	34.3	-20.3	1.5	45.86	54	-8.14	-	-	101	195	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.7	PK	34.3	-20.3	0	51.7	-	-	74	-22.3	137	230	V
2	* 5.068	41.45	PK	34.2	-20.2	0	55.45	-	-	74	-18.55	137	230	V
3	* 5.15	29.22	RMS	34.3	-20.3	1.5	44.72	54	-9.28	-	-	137	230	V
4	* 5.147	30.12	RMS	34.3	-20.3	1.5	45.62	54	-8.38	-	-	137	230	V

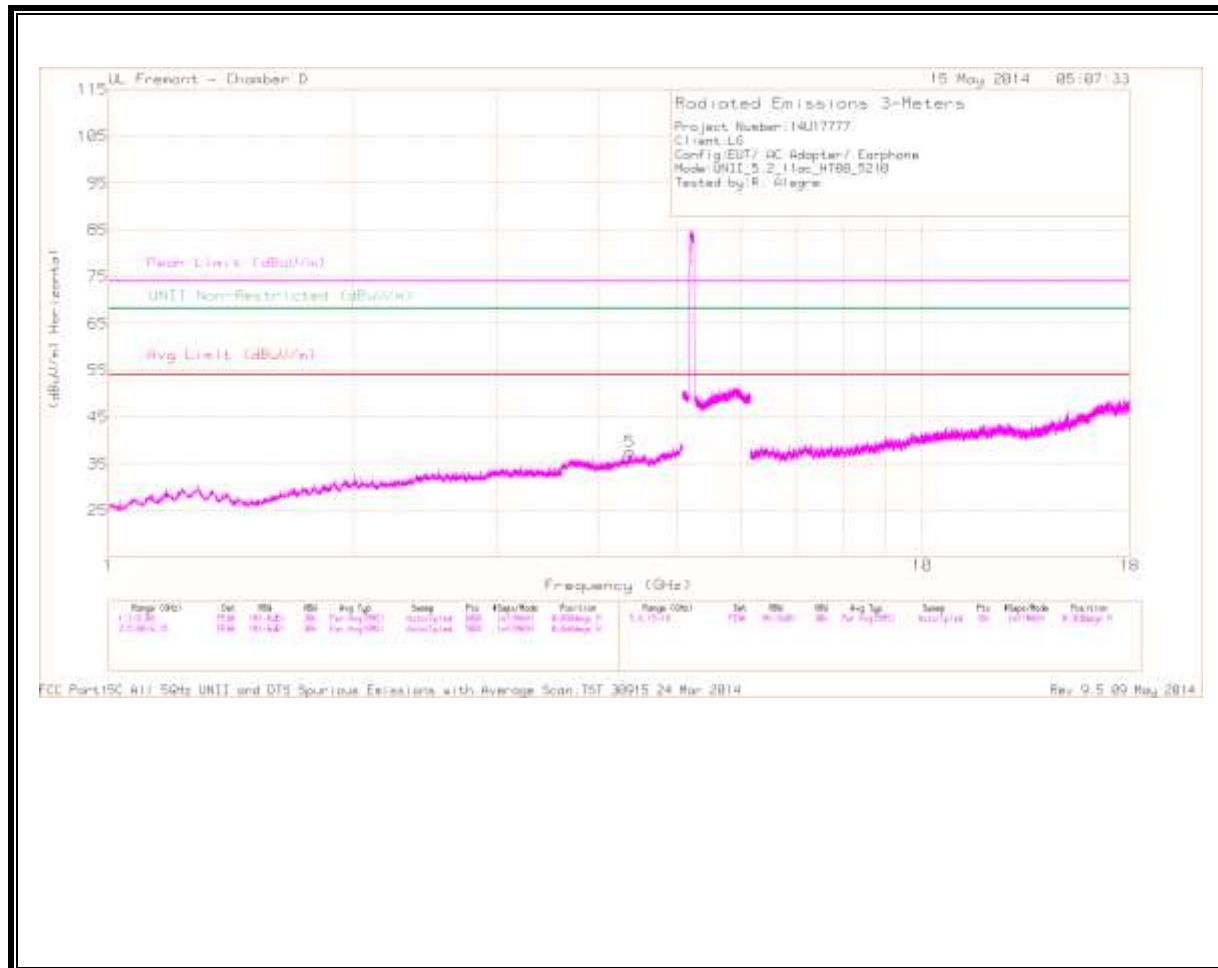
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

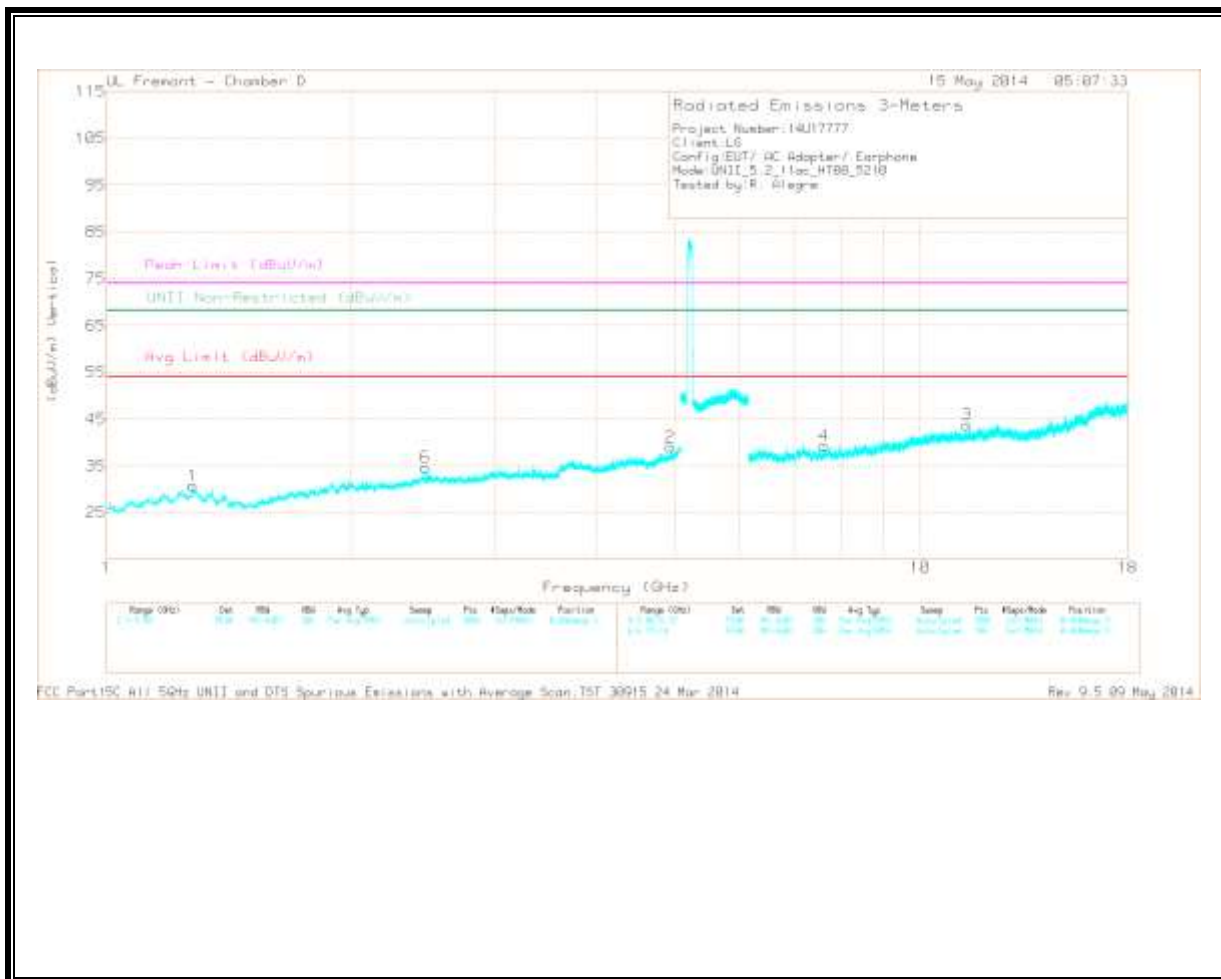
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (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
5	* 4.375	32.3	PK	33.2	-27.9	0	37.6	-	-	74	-36.4	-	-	0-360	201	H
1	* 1.275	32.95	PK	29.3	-31.5	0	30.75	-	-	74	-43.25	-	-	0-360	100	V
2	* 4.932	31.89	PK	33.5	-26.3	0	39.09	-	-	74	-34.91	-	-	0-360	100	V
3	* 11.406	27.82	PK	37.6	-21.6	0	43.82	-	-	74	-30.18	-	-	0-360	100	V
4	* 7.613	29.72	PK	35.2	-25.6	0	39.32	-	-	74	-34.68	-	-	0-360	201	V
6	2.466	32.53	PK	32	-29.8	0	34.73	-	-	-	-	68.2	-33.47	0-360	201	V

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

PK - Peak detector

Radiated Emissions

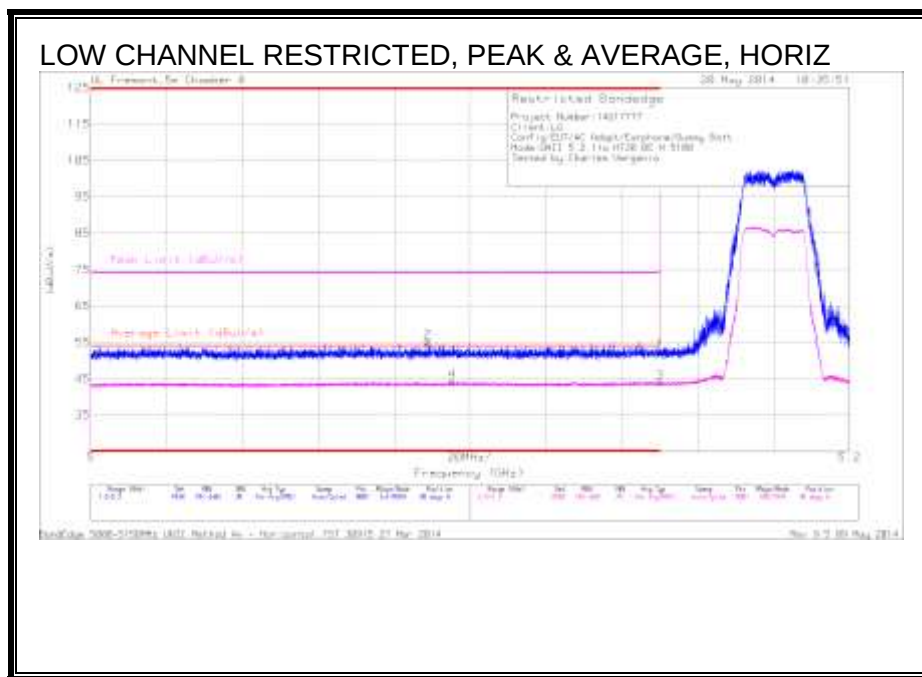
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.373	38.03	PK1	33.2	-28	0	43.23	-	-	74	-30.77	-	-	0	100	H
* 1.277	40.73	PK1	29.3	-31.5	0	38.53	-	-	74	-35.47	-	-	0	100	V
* 4.929	37.04	PK1	33.5	-26.3	0	44.24	-	-	74	-29.76	-	-	0	100	V
* 11.405	34.54	PK1	37.6	-21.6	0	50.54	-	-	74	-23.46	-	-	0	100	V
* 11.406	23.66	AD1	37.6	-21.6	1.5	41.16	54	-12.84	-	-	-	-	0	100	V
* 7.613	36.45	PK1	35.2	-25.6	0	46.05	-	-	74	-27.95	-	-	0	100	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH SMART COVER
RESTRICTED BANDEDGE (LOW CHANNEL)

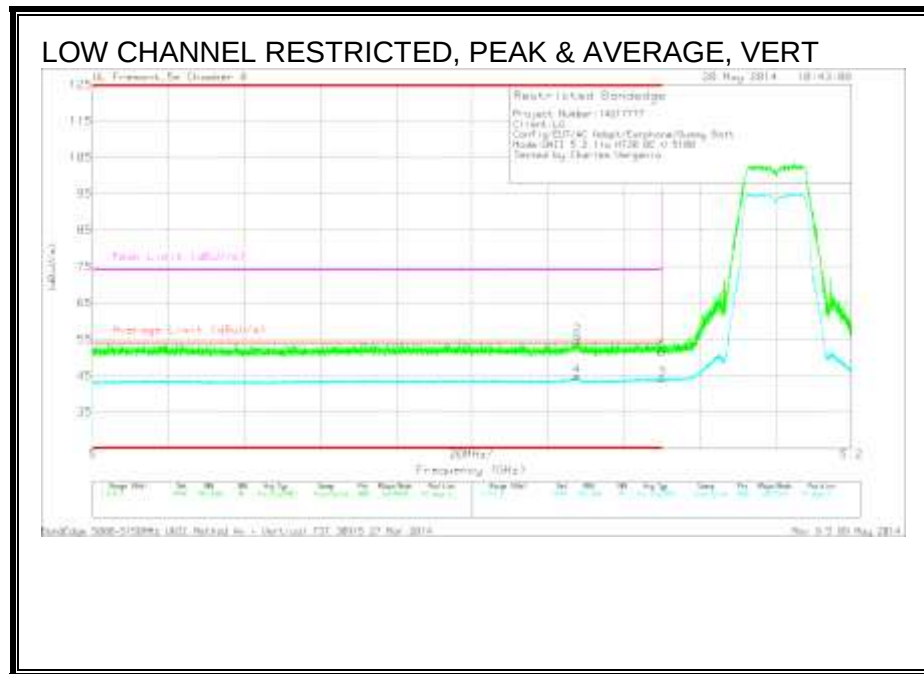


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.47	PK	34.3	-20.3	0	52.47	-	-	74	-21.53	98	288	H
2	* 5.089	41.2	PK	34.2	-20.1	0	55.3	-	-	74	-18.7	98	288	H
3	* 5.15	29.88	RMS	34.3	-20.3	.2	44.08	54	-9.92	-	-	98	288	H
4	* 5.095	30	RMS	34.2	-20.1	.2	44.3	54	-9.7	-	-	98	288	H

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

PK - Peak detector

RMS - RMS detection



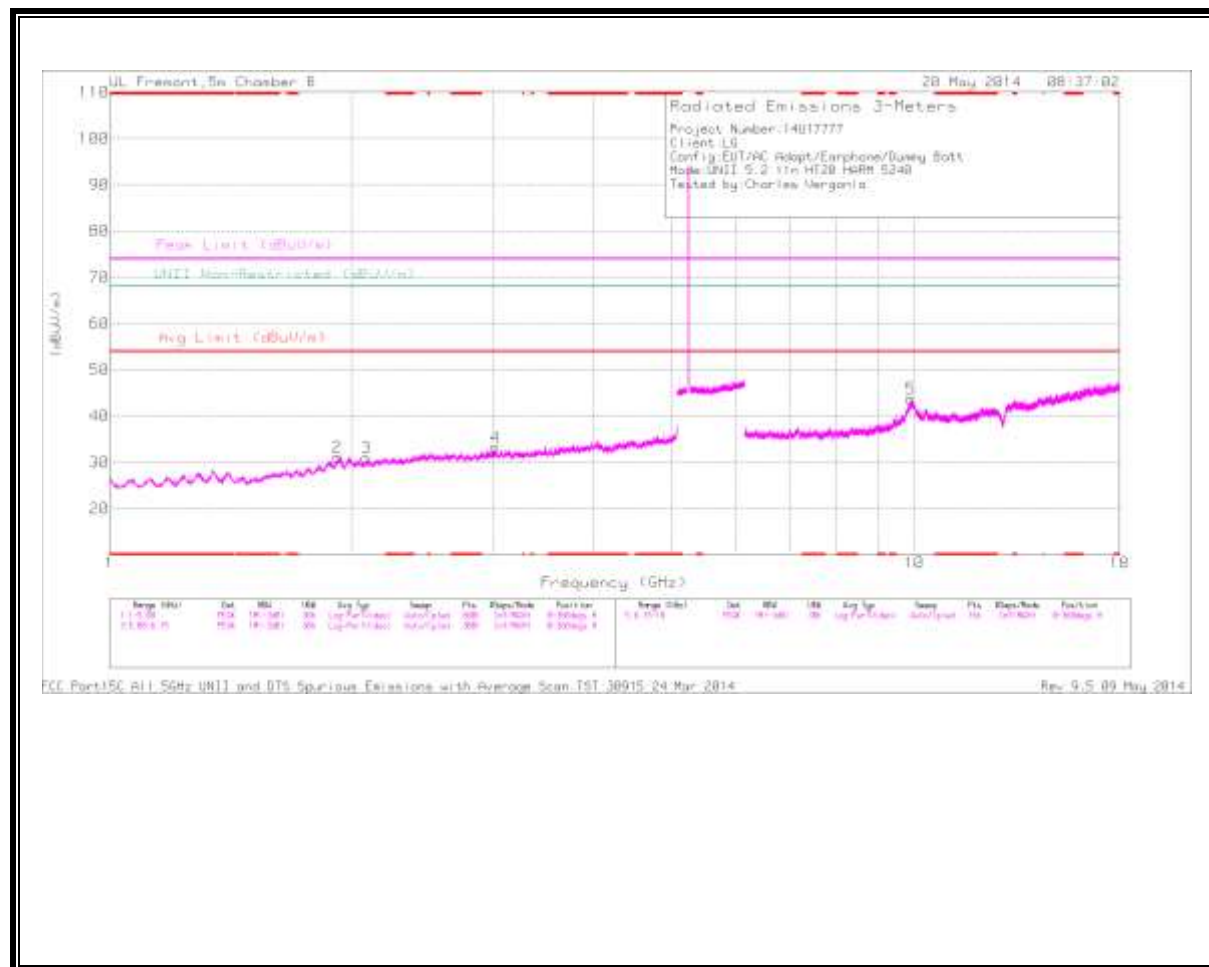
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.61	PK	34.3	-20.3	0	51.61	-	-	74	-22.39	97	320	V
2	* 5.128	41.72	PK	34.3	-20.2	0	55.82	-	-	74	-18.18	97	320	V
3	* 5.15	29.99	RMS	34.3	-20.3	.2	44.19	54	-9.81	-	-	97	320	V
4	* 5.128	30.49	RMS	34.3	-20.2	.2	44.79	54	-9.21	-	-	97	320	V

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

PK - Peak detector

RMS - RMS detection

HORIZONTAL



CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.87	32.56	PK	30.8	-33.2	0	30.16	-	-	-	-	68.2	-38.04	0-360	99	V
2	1.919	33.06	PK	31.1	-32.9	0	31.26	-	-	-	-	68.2	-36.94	0-360	202	H
3	2.083	33.57	PK	31.3	-33.8	0	31.07	-	-	-	-	68.2	-37.13	0-360	99	H
4	3.015	32.52	PK	32.8	-32	0	33.32	-	-	-	-	68.2	-34.88	0-360	202	H
5	9.897	30.88	PK	37	-24.1	0	43.78	-	-	-	-	68.2	-24.42	0-360	202	H
6	10.479	28.85	PK	37.4	-23.3	0	42.95	-	-	-	-	68.2	-25.25	0-360	202	V

PK - Peak detector

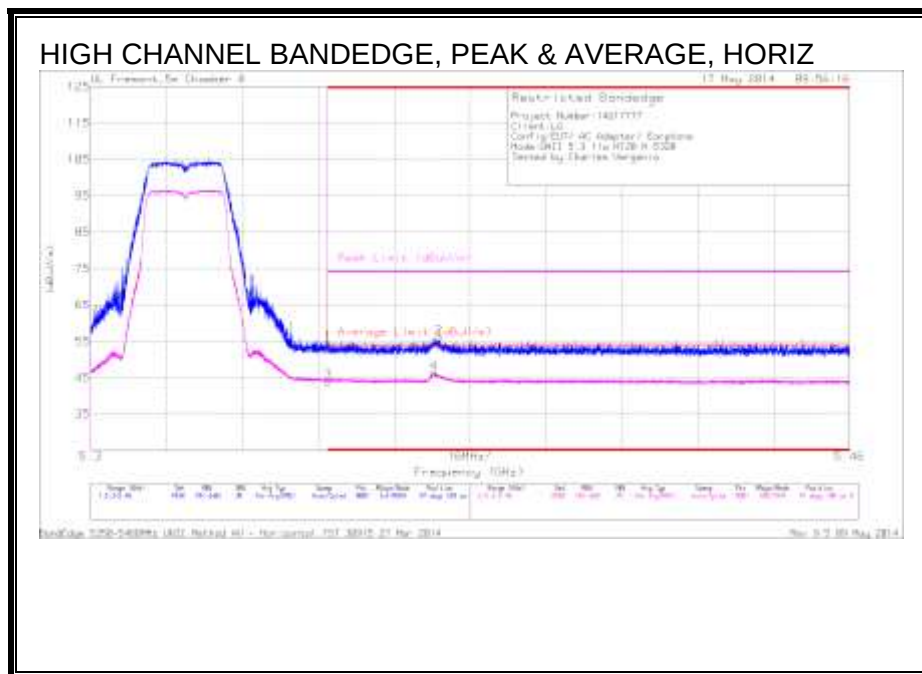
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.896	27.9	MAV1	37	-24.1	.2	41	-	-	-	-	-	-	242	201	H
9.897	40.22	PK2	37	-24.1	0	53.12	-	-	-	-	68.2	-15.08	242	201	H
10.48	38.78	PK2	37.4	-23.3	0	52.88	-	-	-	-	68.2	-15.32	242	289	V
10.48	28.15	MAV1	37.4	-23.3	.2	42.45	-	-	-	-	-	-	242	289	V

PK2 - KDB558074 Method: Maximum Peak

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)

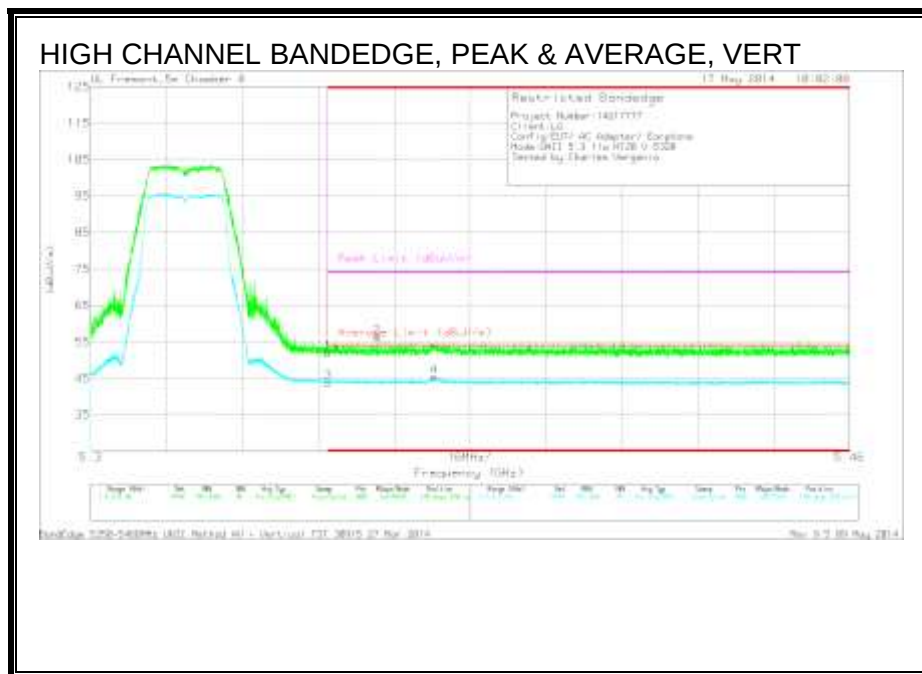


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.89	PK	34.5	-19.9	0	54.49	-	-	74	-19.51	97	188	H
2	* 5.374	41.53	PK	34.5	-19.9	0	56.13	-	-	74	-17.87	97	188	H
3	* 5.35	29.12	RMS	34.5	-19.9	.2	43.92	54	-10.08	-	-	97	188	H
4	* 5.372	31.47	RMS	34.5	-19.9	.2	46.27	54	-7.73	-	-	97	188	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/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	37.32	PK	34.5	-19.9	0	51.92	-	-	74	-22.08	140	250	V
2	* 5.36	41.63	PK	34.5	-19.9	0	56.23	-	-	74	-17.77	140	250	V
3	* 5.35	29.03	RMS	34.5	-19.9	.2	43.83	54	-10.17	-	-	140	250	V
4	* 5.372	30.62	RMS	34.5	-19.9	.2	45.42	54	-8.58	-	-	140	250	V

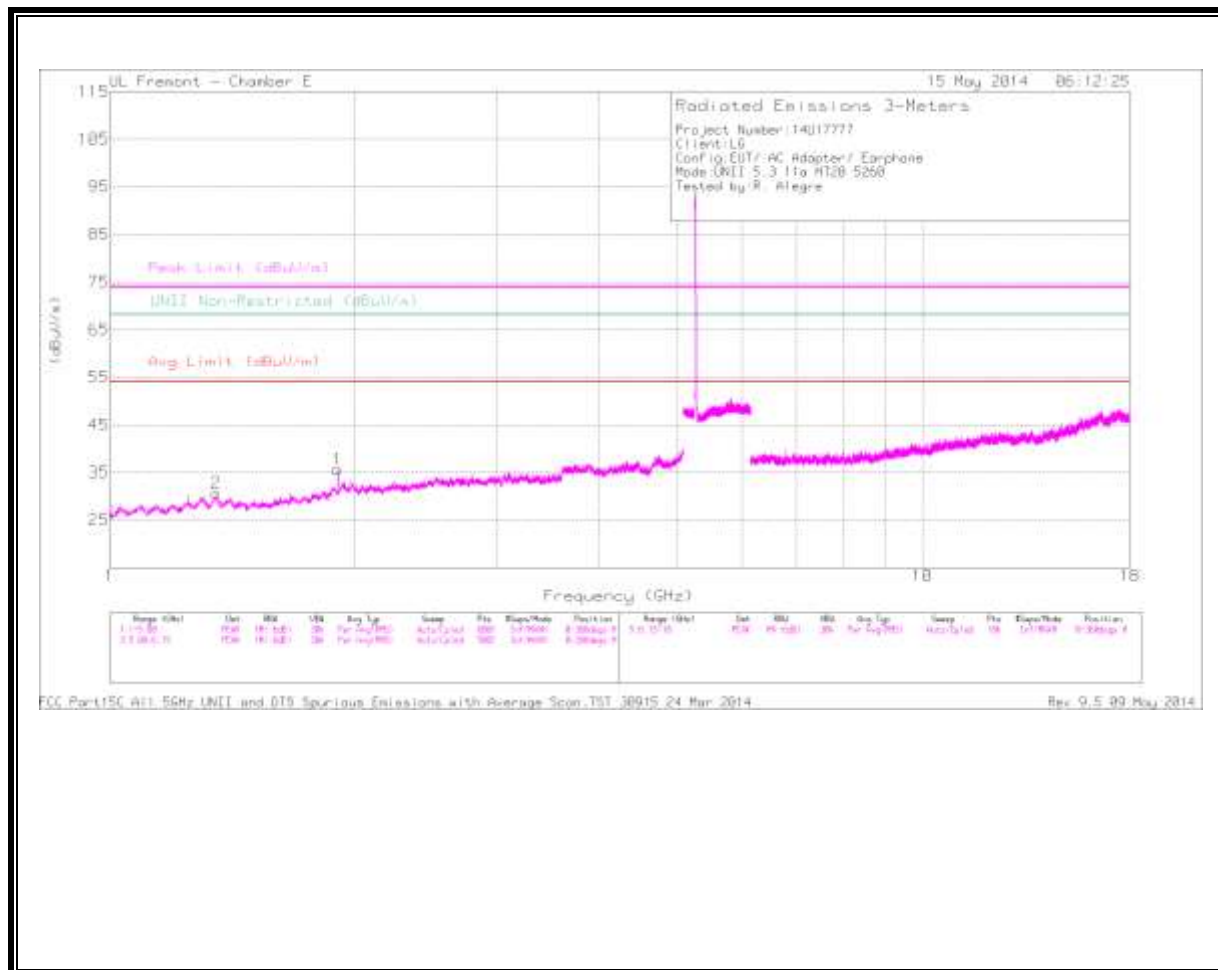
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

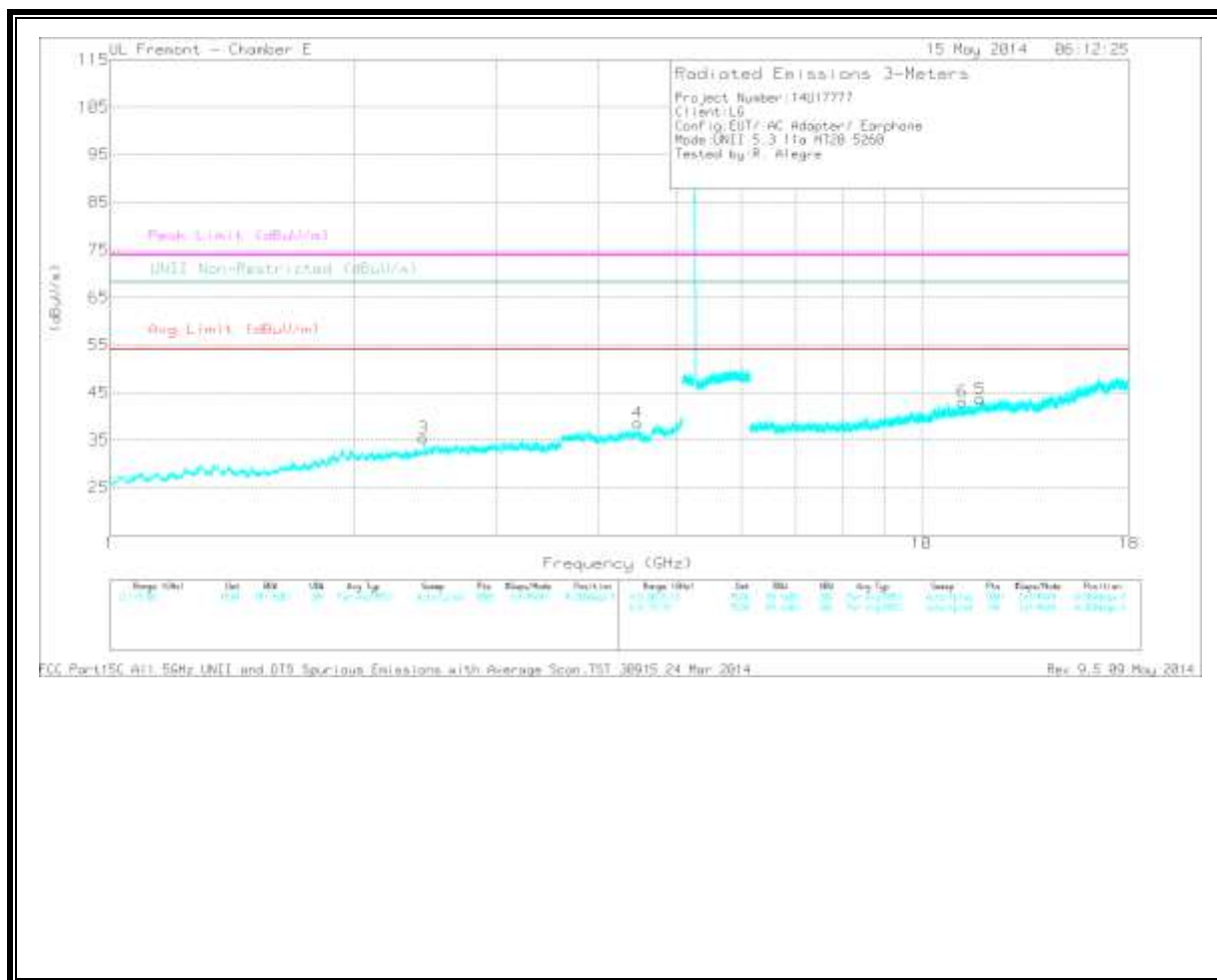
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL
HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.352	35.69	PK	28.9	-33.9	0	30.69	-	-	74	-43.31	-	-	0-360	199	H
5	* 11.817	28.46	PK	38.5	-23.3	0	43.66	-	-	74	-30.34	-	-	0-360	101	V
6	* 11.236	29.21	PK	37.9	-24	0	43.11	-	-	74	-30.89	-	-	0-360	101	V
1	1.908	37.49	PK	31.1	-32.9	0	35.69	-	-	-	-	68.2	-32.51	0-360	199	H
3	2.435	36.48	PK	32.1	-33.1	0	35.48	-	-	-	-	68.2	-32.72	0-360	101	V
4	4.473	34.94	PK	33.9	-30.2	0	38.64	-	-	-	-	68.2	-29.56	0-360	200	V

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

PK - Peak detector

Radiated Emissions

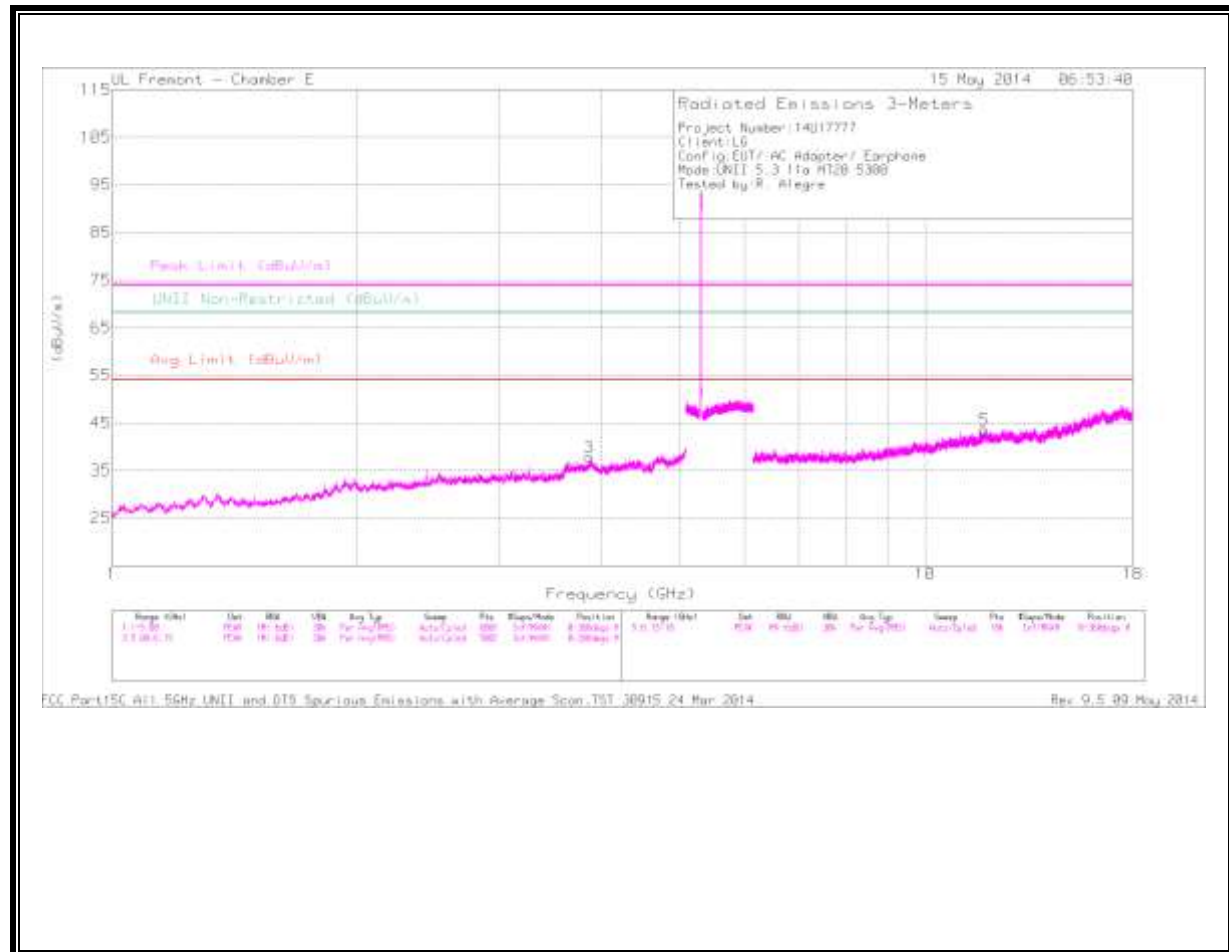
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.35	43.75	PK1	28.9	-33.9	0	38.75	-	-	74	-35.25	-	-	0	101	H
* 11.817	36.74	PK1	38.5	-23.3	0	51.94	-	-	74	-22.06	-	-	0	101	V
* 11.815	25.29	AD1	38.5	-23.3	.2	40.69	54	-13.31	-	-	-	-	0	101	V
* 11.237	37.03	PK1	37.9	-24	0	50.93	-	-	74	-23.07	-	-	0	101	V
* 11.235	25.13	AD1	37.9	-24	.2	39.23	54	-14.77	-	-	-	-	0	101	V
1.908	42.22	PK1	31.1	-32.9	0	40.42	-	-	-	-	68.2	-27.78	134	289	H
1.909	30.08	AD1	31.1	-32.9	.2	28.48	-	-	-	-	-	-	134	289	H
2.436	42.59	PK1	32.1	-33.1	0	41.59	-	-	-	-	68.2	-26.61	0	101	V
4.473	41.7	PK1	33.9	-30.2	0	45.4	-	-	-	-	68.2	-22.8	0	101	V

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

PK1 - KDB789033 Method: Peak

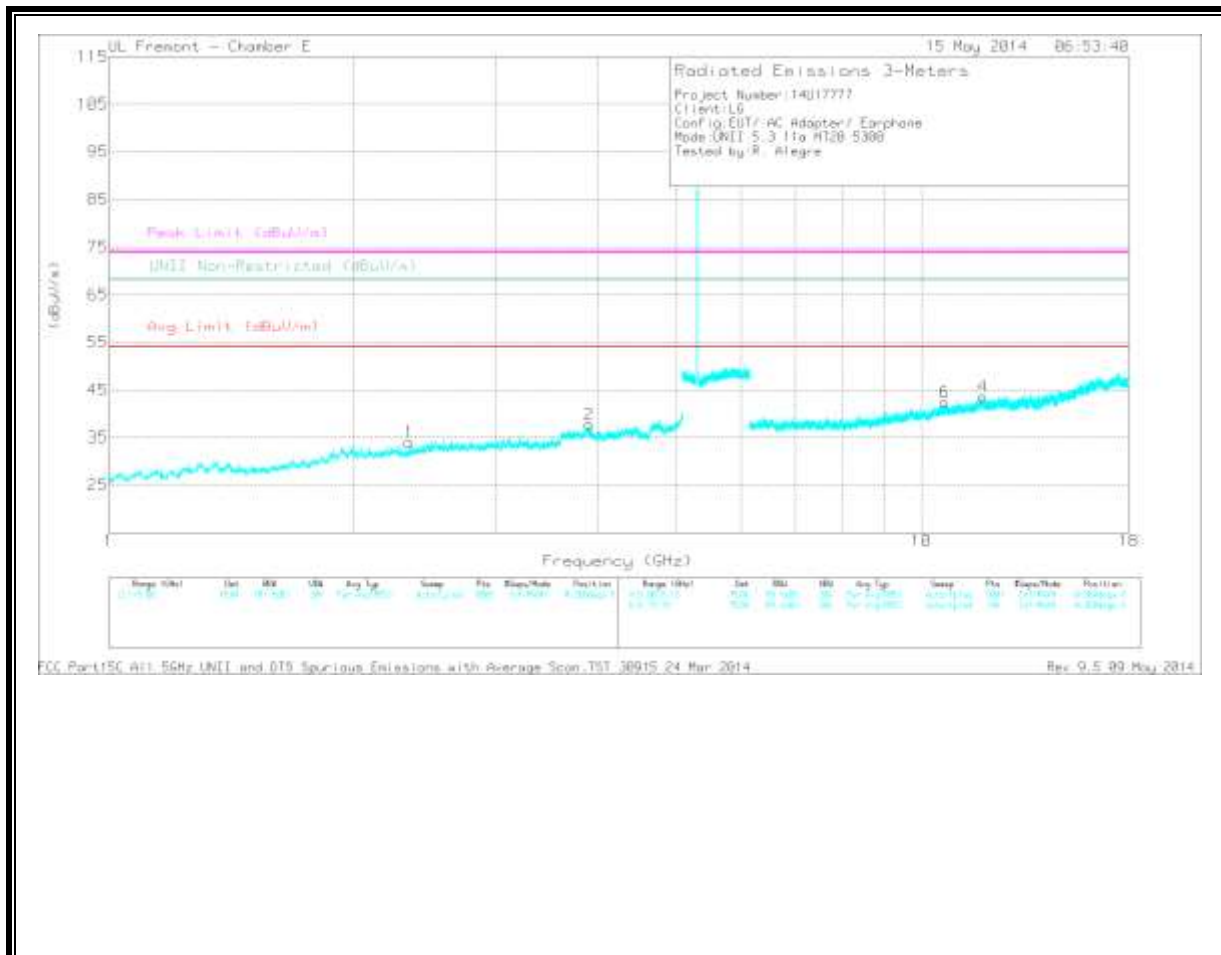
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL
HORIZONTAL



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

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 3.864	35.11	PK	33.5	-30.8	0	37.81	-	-	74	-36.19	-	-	0-360	101	H
1	* 2.343	35.74	PK	31.7	-33.4	0	34.04	-	-	74	-39.96	-	-	0-360	200	V
2	* 3.905	34.77	PK	33.5	-30.5	0	37.77	-	-	74	-36.23	-	-	0-360	200	V
5	* 11.831	28.38	PK	38.5	-23.3	0	43.58	-	-	74	-30.42	-	-	0-360	101	H
4	* 11.908	29.41	PK	38.6	-24.4	0	43.61	-	-	74	-30.39	-	-	0-360	200	V
6	* 10.688	28.4	PK	37.8	-23.8	0	42.4	-	-	74	-31.6	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

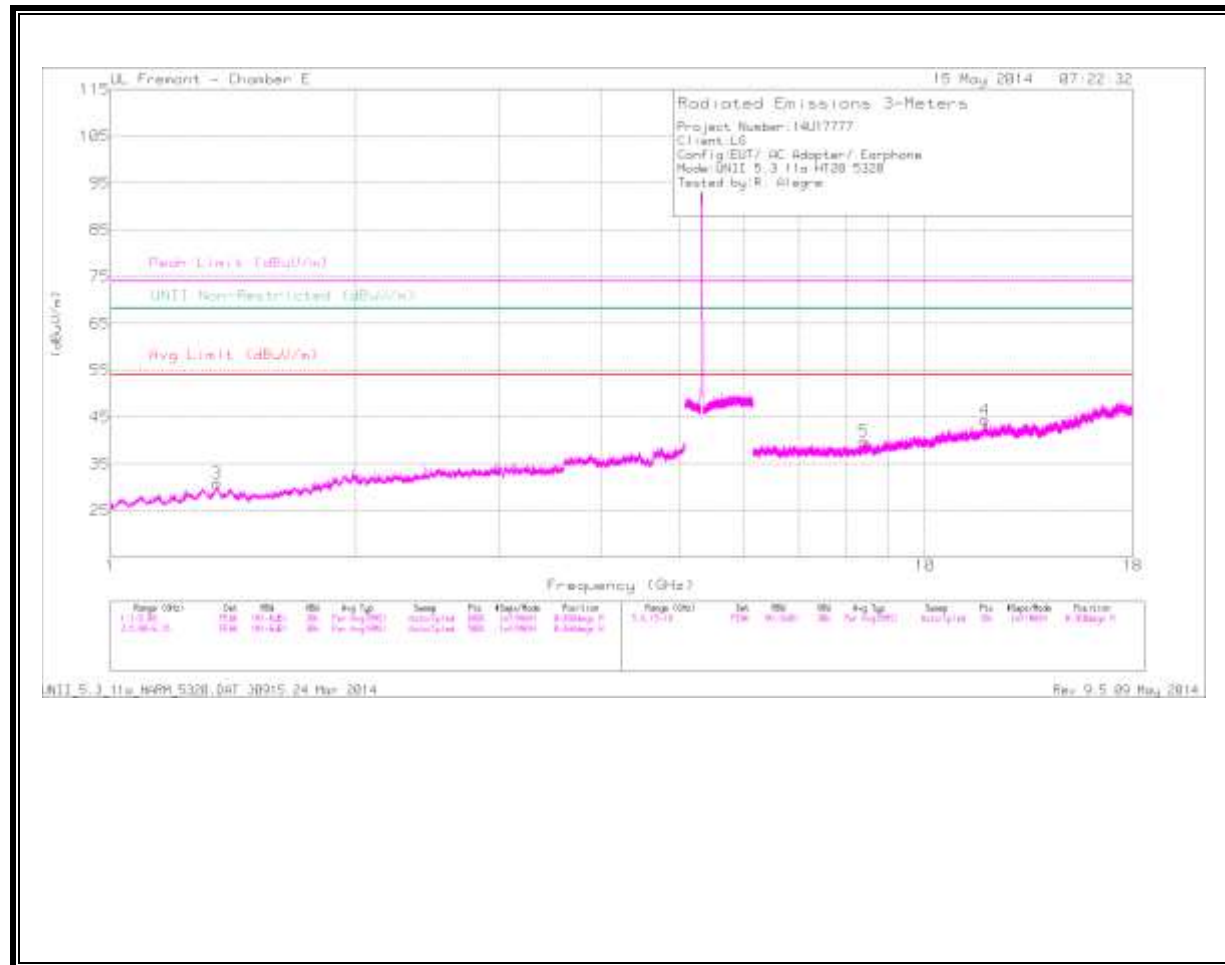
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.865	41.58	PK1	33.5	-30.7	0	44.38	-	-	74	-29.62	-	-	3	102	H
* 3.904	41.39	PK1	33.5	-30.5	0	44.39	-	-	74	-29.61	-	-	3	200	V
* 2.344	42.75	PK1	31.7	-33.4	0	41.05	-	-	74	-32.95	-	-	3	200	V
* 11.83	35.82	PK1	38.5	-23.2	0	51.12	-	-	74	-22.88	-	-	3	102	H
* 11.909	37.09	PK1	38.6	-24.4	0	51.29	-	-	74	-22.71	-	-	3	200	V
* 11.908	25.68	AD1	38.6	-24.4	.2	40.08	54	-13.92	-	-	-	-	3	200	V
* 10.688	36.41	PK1	37.8	-23.8	0	50.41	-	-	74	-23.59	-	-	3	102	V

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

PK1 - KDB789033 Method: Peak

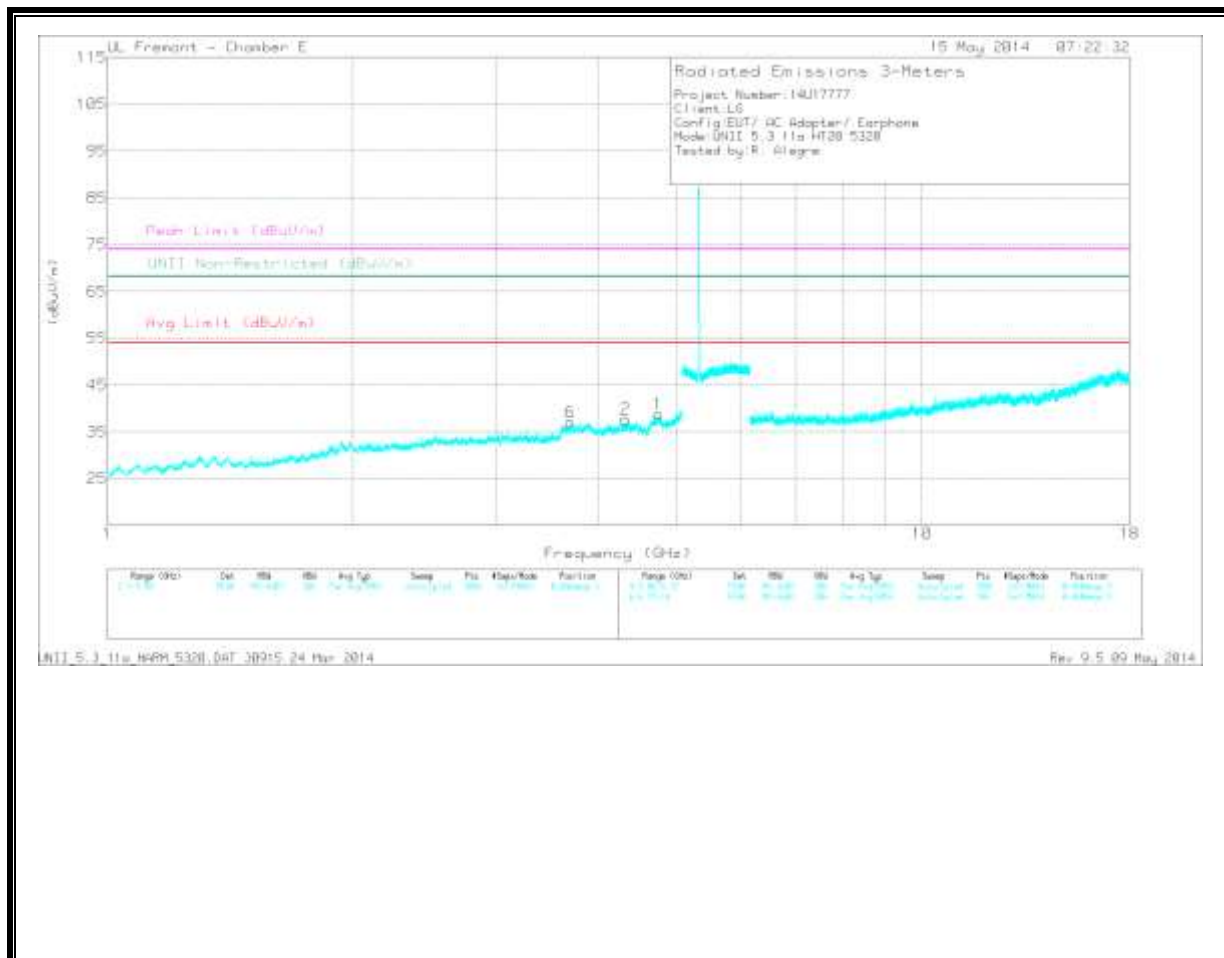
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL
HORIZONTAL



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

VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 1.352	35.88	PK	28.9	-33.9	0	30.88	-	-	74	-43.12	-	-	0-360	102	H
1	* 4.747	35.28	PK	34.1	-30.6	0	38.78	-	-	74	-35.22	-	-	0-360	200	V
2	* 4.329	34.72	PK	33.6	-30.6	0	37.72	-	-	74	-36.28	-	-	0-360	200	V
6	* 3.698	35.27	PK	33.3	-31.5	0	37.07	-	-	74	-36.93	-	-	0-360	101	V
4	* 11.842	29.19	PK	38.5	-23.3	0	44.39	-	-	74	-29.61	-	-	0-360	200	H
5	* 8.419	30.92	PK	35.9	-27	0	39.82	-	-	74	-34.18	-	-	0-360	101	H

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

PK - Peak detector

Radiated Emissions

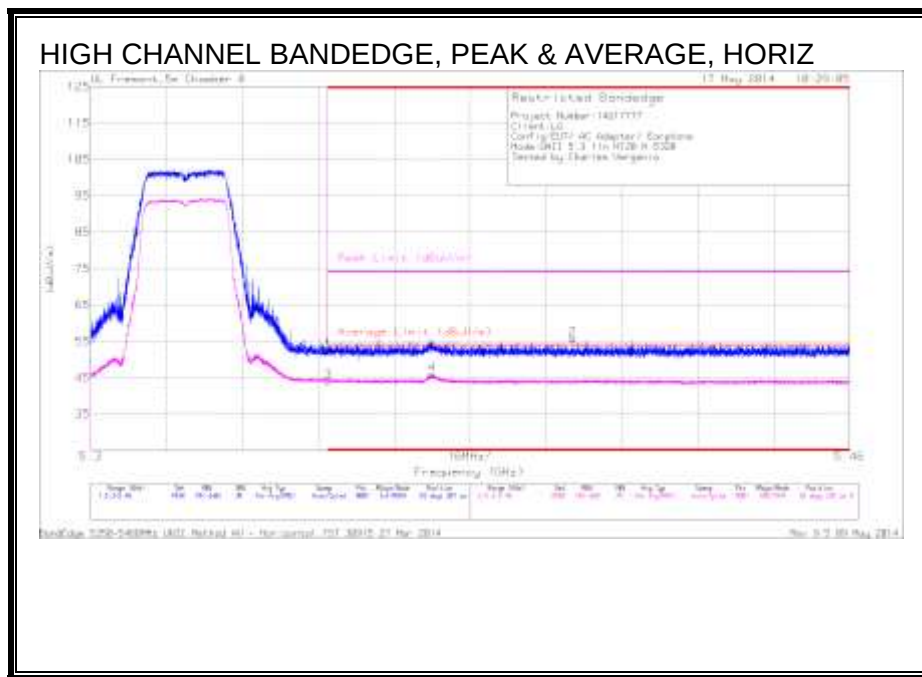
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.35	43.68	PK1	28.9	-33.9	0	38.68	-	-	74	-35.32	-	-	0	103	H
* 3.698	41.96	PK1	33.3	-31.5	0	43.76	-	-	74	-30.24	-	-	0	102	V
* 4.331	42.03	PK1	33.6	-30.7	0	44.93	-	-	74	-29.07	-	-	0	200	V
* 4.743	41.74	PK1	34.1	-30.6	0	45.24	-	-	74	-28.76	-	-	0	200	V
* 11.842	37.15	PK1	38.5	-23.3	0	52.35	-	-	74	-21.65	-	-	0	200	H
* 11.843	25.24	AD1	38.5	-23.3	.2	40.64	54	-13.36	-	-	-	-	0	200	H
* 8.421	38.1	PK1	35.9	-27	0	47	-	-	74	-27	-	-	0	102	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 HT20 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

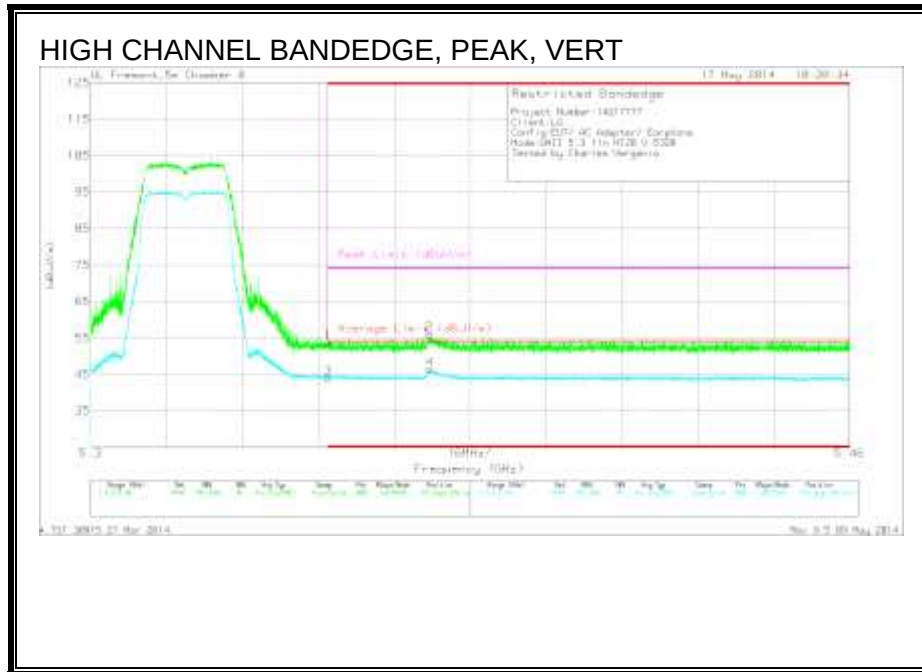


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.86	PK	34.5	-19.9	0	52.46	-	-	74	-21.54	93	207	H
2	* 5.402	41.31	PK	34.5	-20.1	0	55.71	-	-	74	-18.29	93	207	H
3	* 5.35	29.24	RMS	34.5	-19.9	.2	44.04	54	-9.96	-	-	93	207	H
4	* 5.372	31.06	RMS	34.5	-19.9	.2	45.86	54	-8.14	-	-	93	207	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fil 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	39.19	PK	34.5	-19.9	0	53.79	-	-	74	-20.21	157	246	V
2	* 5.371	41.34	PK	34.5	-19.9	0	55.94	-	-	74	-18.06	157	246	V
3	* 5.35	29.3	RMS	34.5	-19.9	.2	44.1	54	-9.9	-	-	157	246	V
4	* 5.372	31.65	RMS	34.5	-19.9	.2	46.45	54	-7.55	-	-	157	246	V

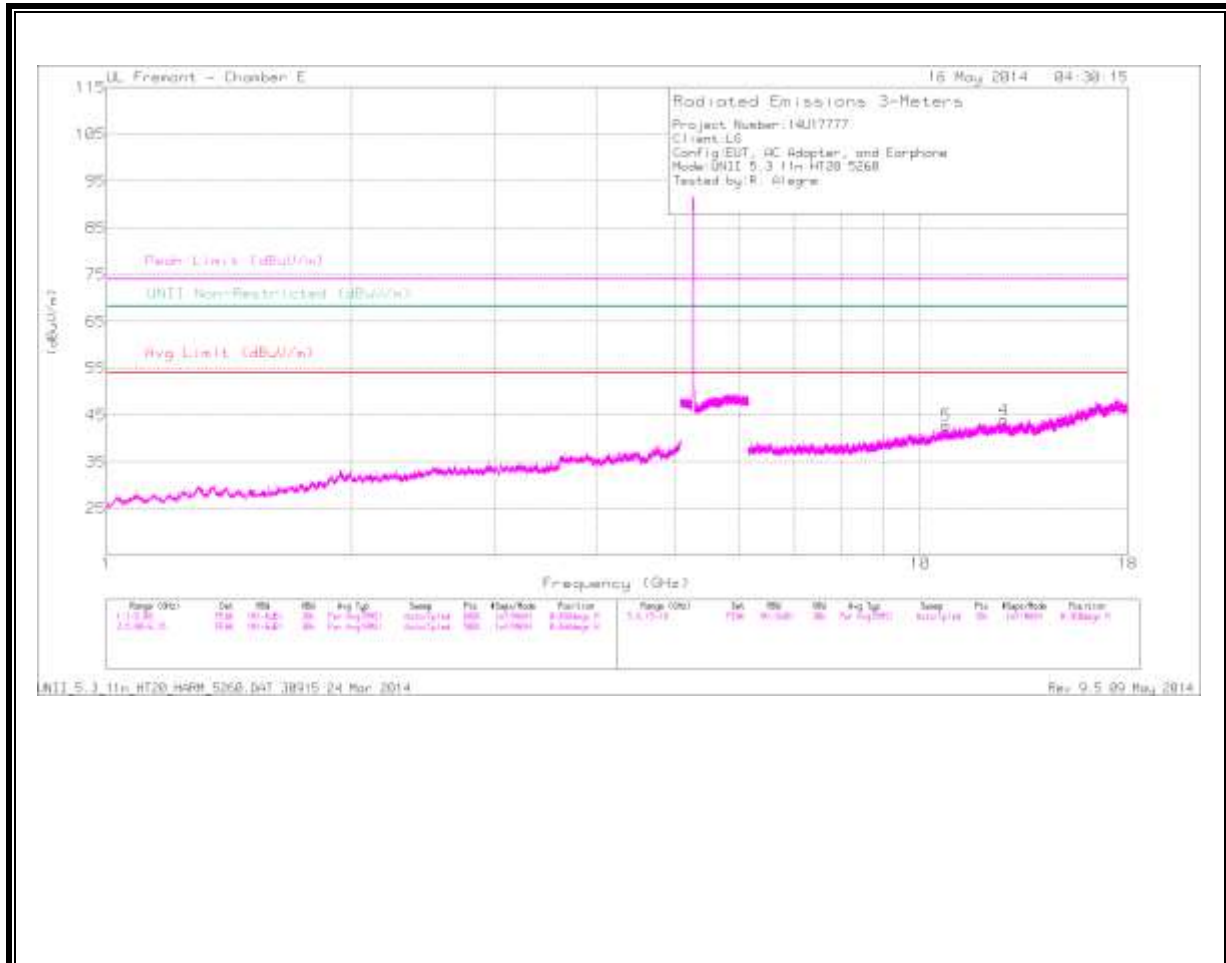
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

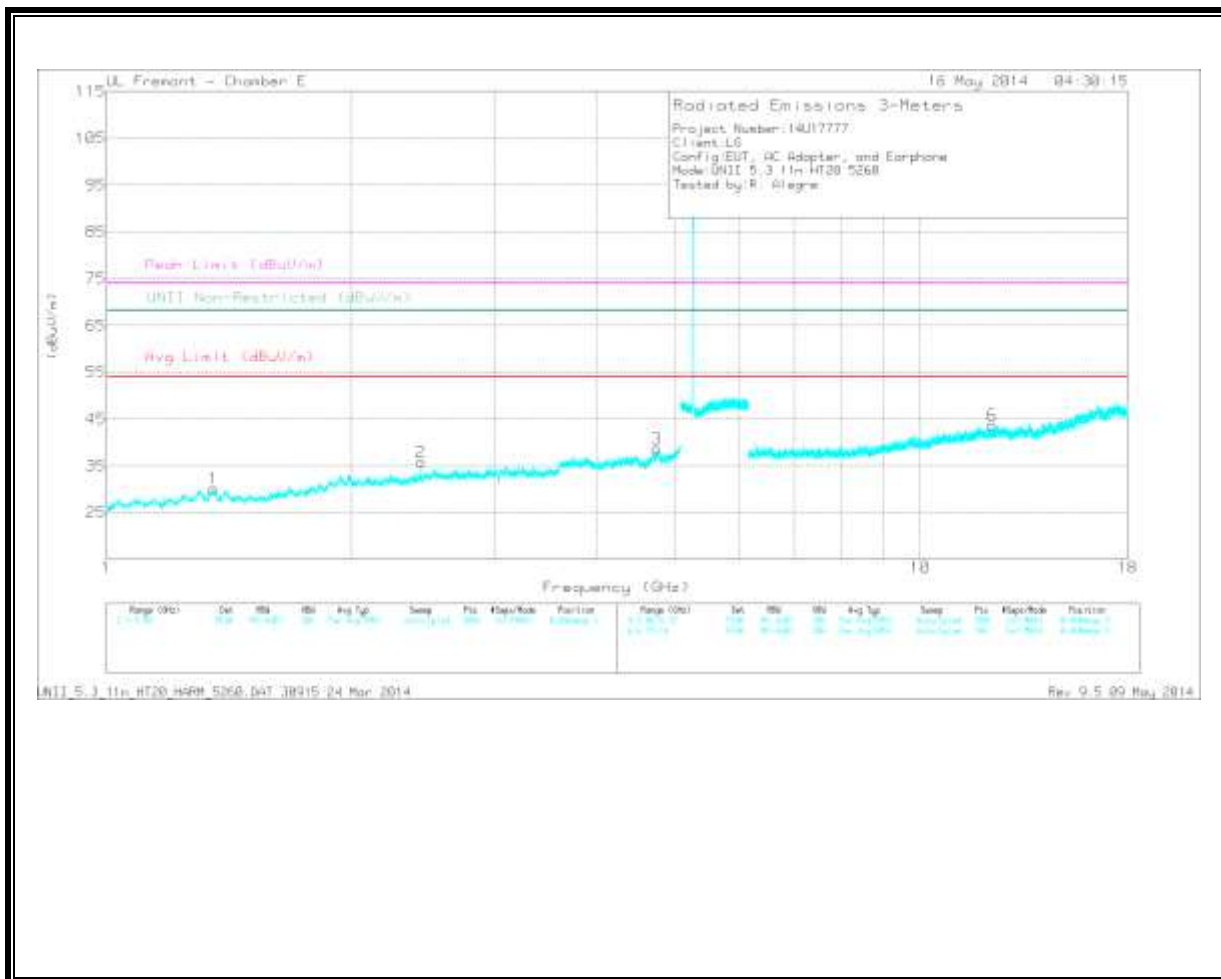
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.354	35.18	PK	28.9	-34	0	30.08	-	-	74	-43.92	-	-	0-360	101	V
3	* 4.745	35.15	PK	34.1	-30.6	0	38.65	-	-	74	-35.35	-	-	0-360	101	V
4	* 12.668	29.37	PK	39.1	-24.5	0	43.97	-	-	74	-30.03	-	-	0-360	101	H
5	* 10.754	28.49	PK	37.9	-23.6	0	42.79	-	-	74	-31.21	-	-	0-360	101	H
6	* 12.271	29.69	PK	38.9	-24.8	0	43.79	-	-	74	-30.21	-	-	0-360	200	V
2	2.435	36.86	PK	32.1	-33.1	0	35.86	-	-	-	-	68.2	-32.34	0-360	101	V

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

PK - Peak detector

Radiated Emissions

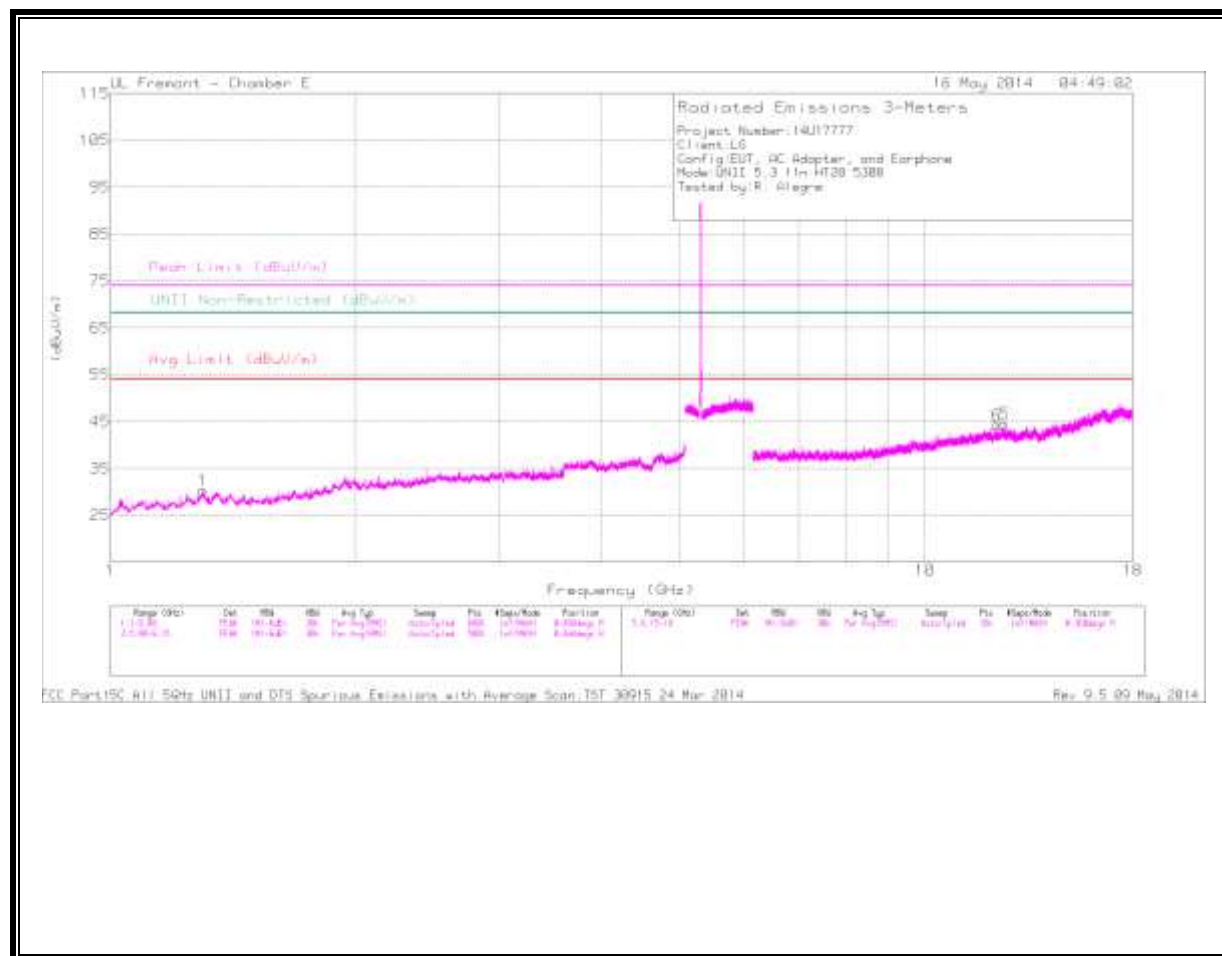
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.298	43.9	PK1	29	-34.2	0	38.7	-	-	74	-35.3	-	-	360	102	H
* 4.746	41.84	PK1	34.1	-30.6	0	45.34	-	-	74	-28.66	-	-	360	102	V
* 1.355	43.82	PK1	28.9	-34	0	38.72	-	-	74	-35.28	-	-	360	102	V
* 12.669	37.91	PK1	39.1	-24.5	0	52.51	-	-	74	-21.49	-	-	360	102	H
* 12.668	25.77	AD1	39.1	-24.5	.2	40.57	54	-13.43	-	-	-	-	360	102	H
* 10.755	36	PK1	37.9	-23.7	0	50.2	-	-	74	-23.8	-	-	360	102	H
* 12.271	36.6	PK1	38.9	-24.8	0	50.7	-	-	74	-23.3	-	-	360	200	V
2.435	43.47	PK1	32.1	-33.1	0	42.47	-	-	-	-	68.2	-25.73	360	102	V
2.436	31.31	AD1	32.1	-33.1	.2	30.51	-	-	-	-	-	-	360	102	V

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

PK1 - KDB789033 Method: Peak

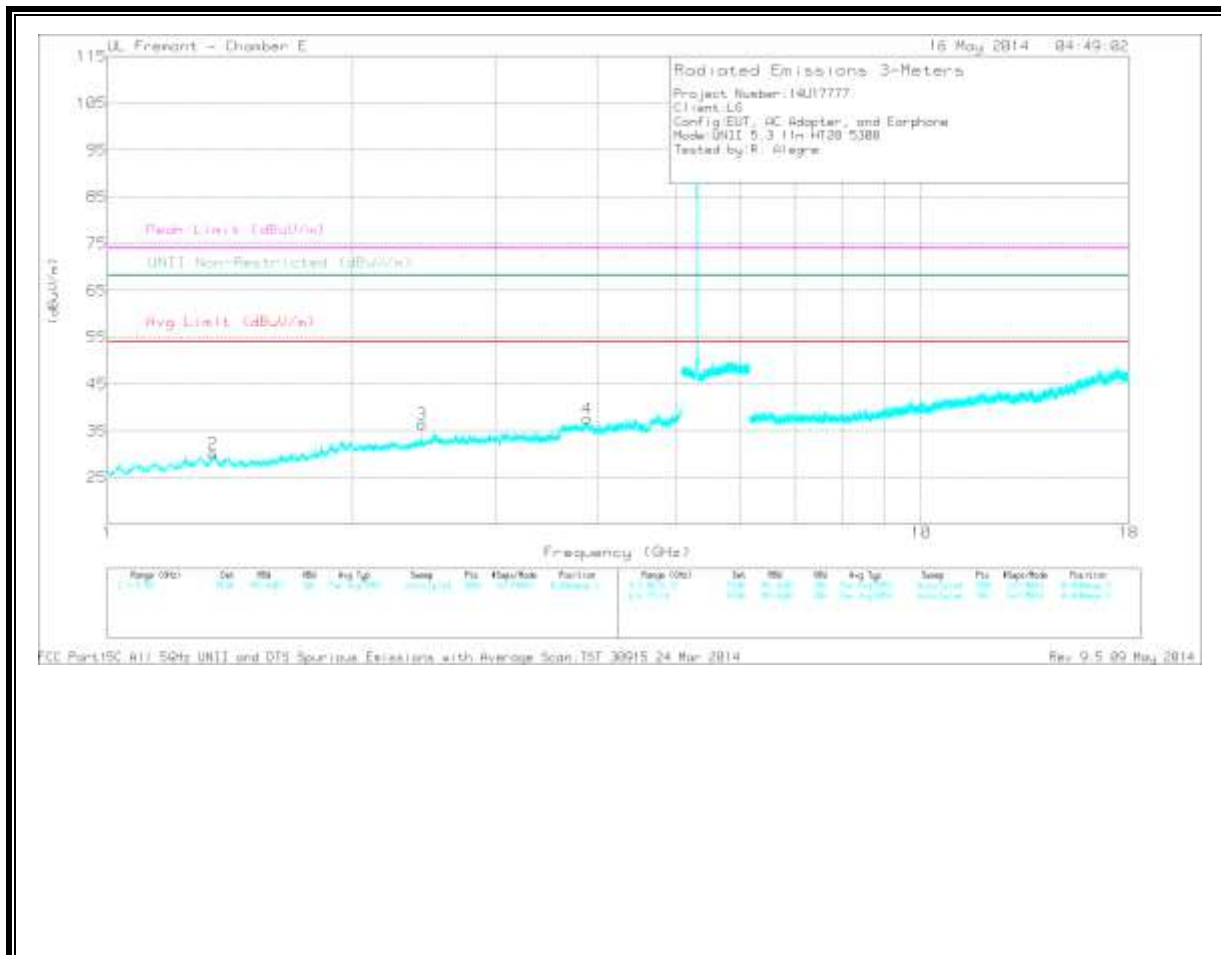
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL
HORIZONTAL



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

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.299	35.42	PK	29	-34.1	0	30.32	-	-	74	-43.68	-	-	0-360	101	H
2	* 1.347	35.09	PK	28.9	-33.9	0	30.09	-	-	74	-43.91	-	-	0-360	200	V
4	* 3.89	34.52	PK	33.5	-30.4	0	37.62	-	-	74	-36.38	-	-	0-360	101	V
5	* 12.529	29.48	PK	39	-24	0	44.48	-	-	74	-29.52	-	-	0-360	200	H
6	* 12.251	30	PK	38.9	-24.6	0	44.3	-	-	74	-29.7	-	-	0-360	101	H
3	2.435	37.52	PK	32.1	-33.1	0	36.52	-	-	-	-	68.2	-31.68	0-360	101	V

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

PK - Peak detector

Radiated Emissions

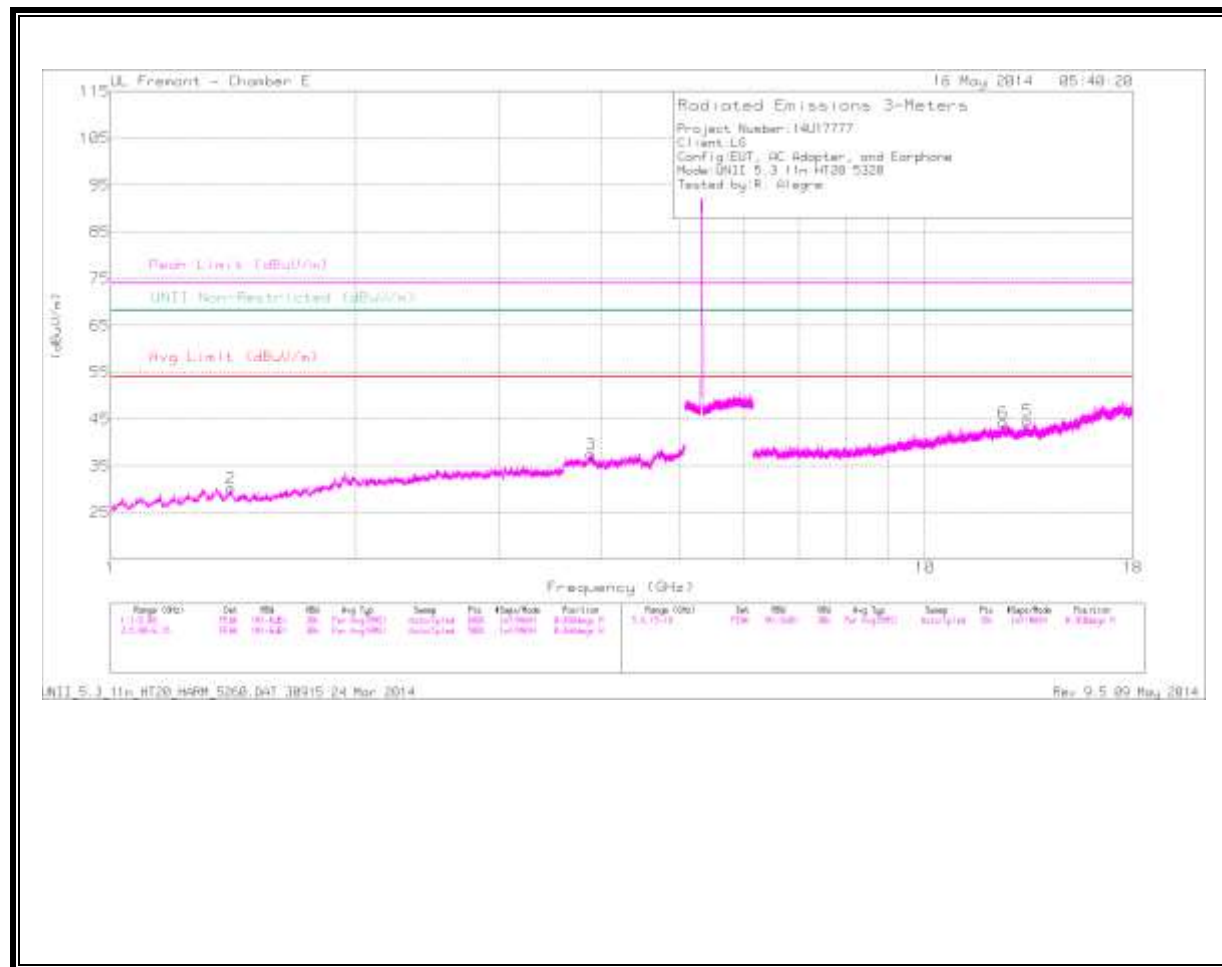
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.298	43.9	PK1	29	-34.2	0	38.7	-	-	74	-35.3	-	-	360	102	H
* 3.892	41.88	PK1	33.5	-30.4	0	44.98	-	-	74	-29.02	-	-	360	101	V
* 3.892	29.86	AD1	33.5	-30.4	0	32.96	54	-21.04	-	-	-	-	360	200	V
* 1.346	43.47	PK1	28.9	-33.9	0	38.47	-	-	74	-35.53	-	-	360	200	V
* 12.53	36.41	PK1	39	-24	0	51.41	-	-	74	-22.59	-	-	360	200	H
* 12.529	25.56	AD1	39	-24	.2	40.76	54	-13.24	-	-	-	-	360	200	H
* 12.249	36.91	PK1	38.9	-24.7	0	51.11	-	-	74	-22.89	-	-	360	102	H
2.435	31.19	AD1	32.1	-33.1	.2	30.39	-	-	-	-	-	-	360	101	V
2.436	43.07	PK1	32.1	-33.1	0	42.07	-	-	-	-	68.2	-26.13	360	101	V

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

PK1 - KDB789033 Method: Peak

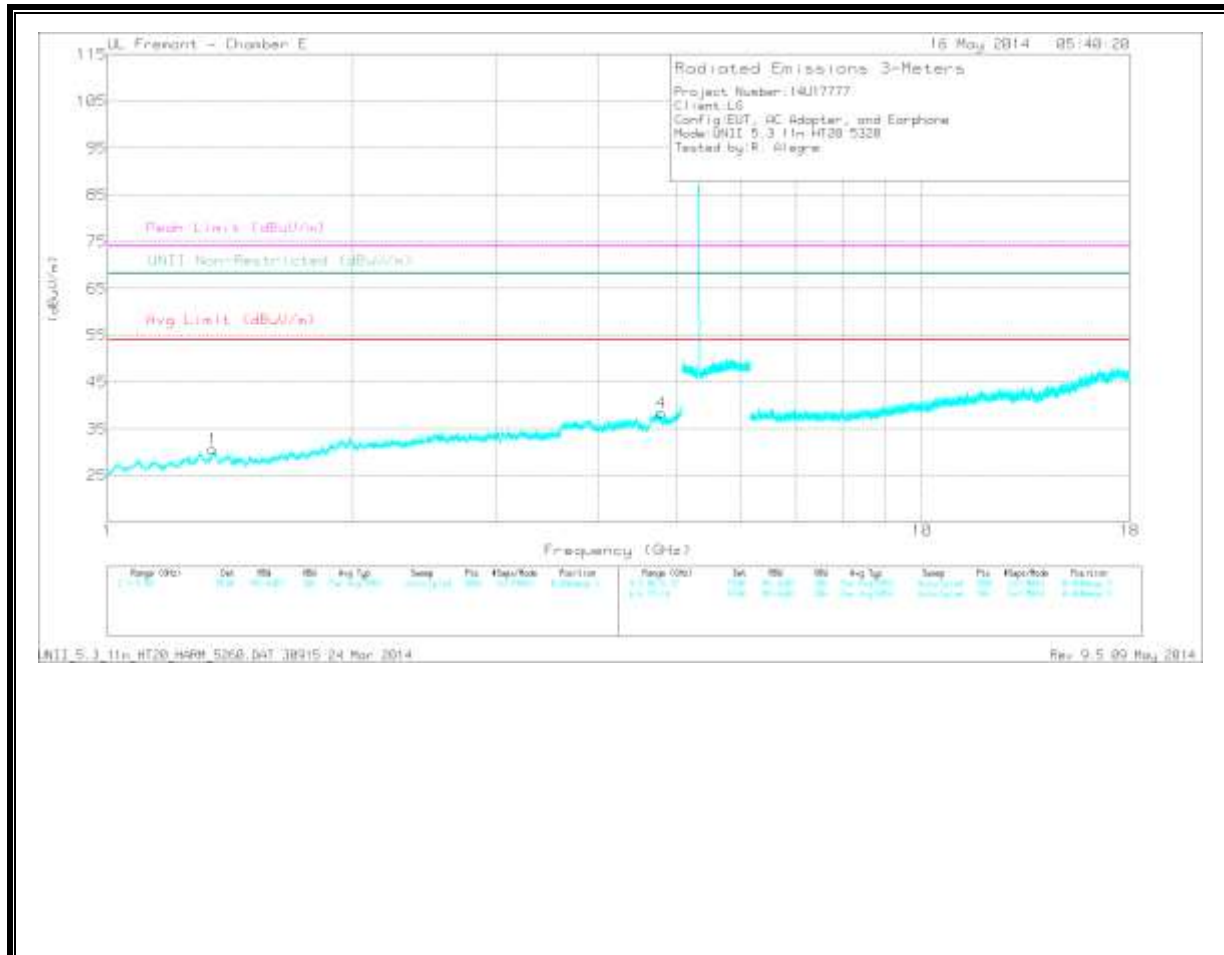
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL
HORIZONTAL



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

VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.405	35.75	PK	28.8	-34.3	0	30.25	-	-	74	-43.75	-	-	0-360	199	H
3	* 3.891	34.42	PK	33.5	-30.4	0	37.52	-	-	74	-36.48	-	-	0-360	199	H
1	* 1.345	35.6	PK	28.9	-33.9	0	30.6	-	-	74	-43.4	-	-	0-360	101	V
4	* 4.788	34.49	PK	34.1	-30.2	0	38.39	-	-	74	-35.61	-	-	0-360	200	V
5	* 13.366	30.04	PK	39.2	-24.6	0	44.64	-	-	74	-29.36	-	-	0-360	101	H
6	* 12.487	28.88	PK	39	-23.6	0	44.28	-	-	74	-29.72	-	-	0-360	101	H

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

PK - Peak detector

Radiated Emissions

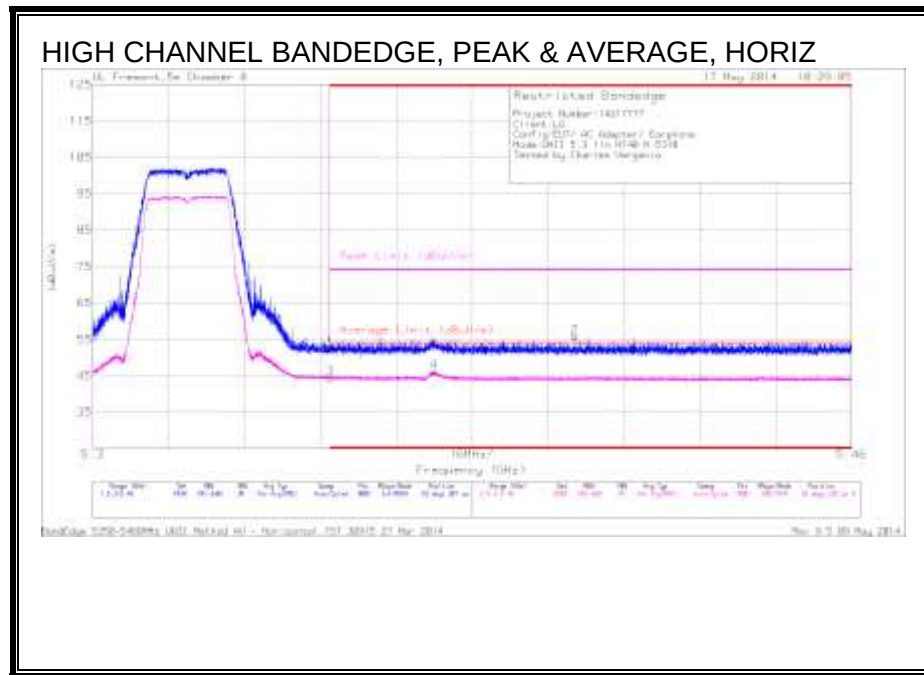
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.893	41.56	PK1	33.5	-30.4	0	44.66	-	-	74	-29.34	-	-	360	199	H
* 1.406	43.8	PK1	28.8	-34.3	0	38.3	-	-	74	-35.7	-	-	360	199	H
* 4.787	40.7	PK1	34.1	-30.2	0	44.6	-	-	74	-29.4	-	-	360	200	V
* 1.347	43.61	PK1	28.9	-33.9	0	38.61	-	-	74	-35.39	-	-	360	102	V
* 13.364	37.53	PK1	39.2	-24.6	0	52.13	-	-	74	-21.87	-	-	360	101	H
* 13.366	26.36	AD1	39.2	-24.6	.2	41.16	54	-12.84	-	-	-	-	360	101	H
* 12.489	36.54	PK1	39	-23.6	0	51.94	-	-	74	-22.06	-	-	360	101	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. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

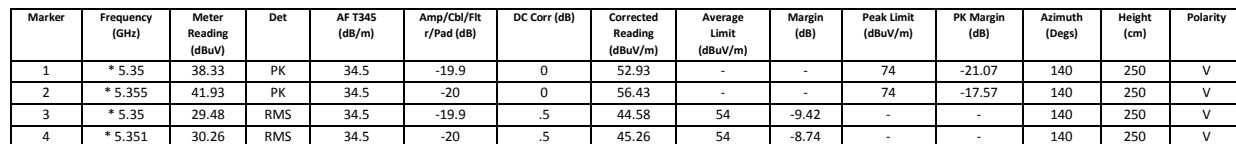


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.86	PK	34.5	-19.9	0	52.46	-	-	74	-21.54	93	207	H
2	* 5.402	41.31	PK	34.5	-20.1	0	55.71	-	-	74	-18.29	93	207	H
3	* 5.35	29.24	RMS	34.5	-19.9	.5	44.34	54	-9.66	-	-	93	207	H
4	* 5.372	31.06	RMS	34.5	-19.9	.5	46.16	54	-7.84	-	-	93	207	H

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

PK - Peak detector

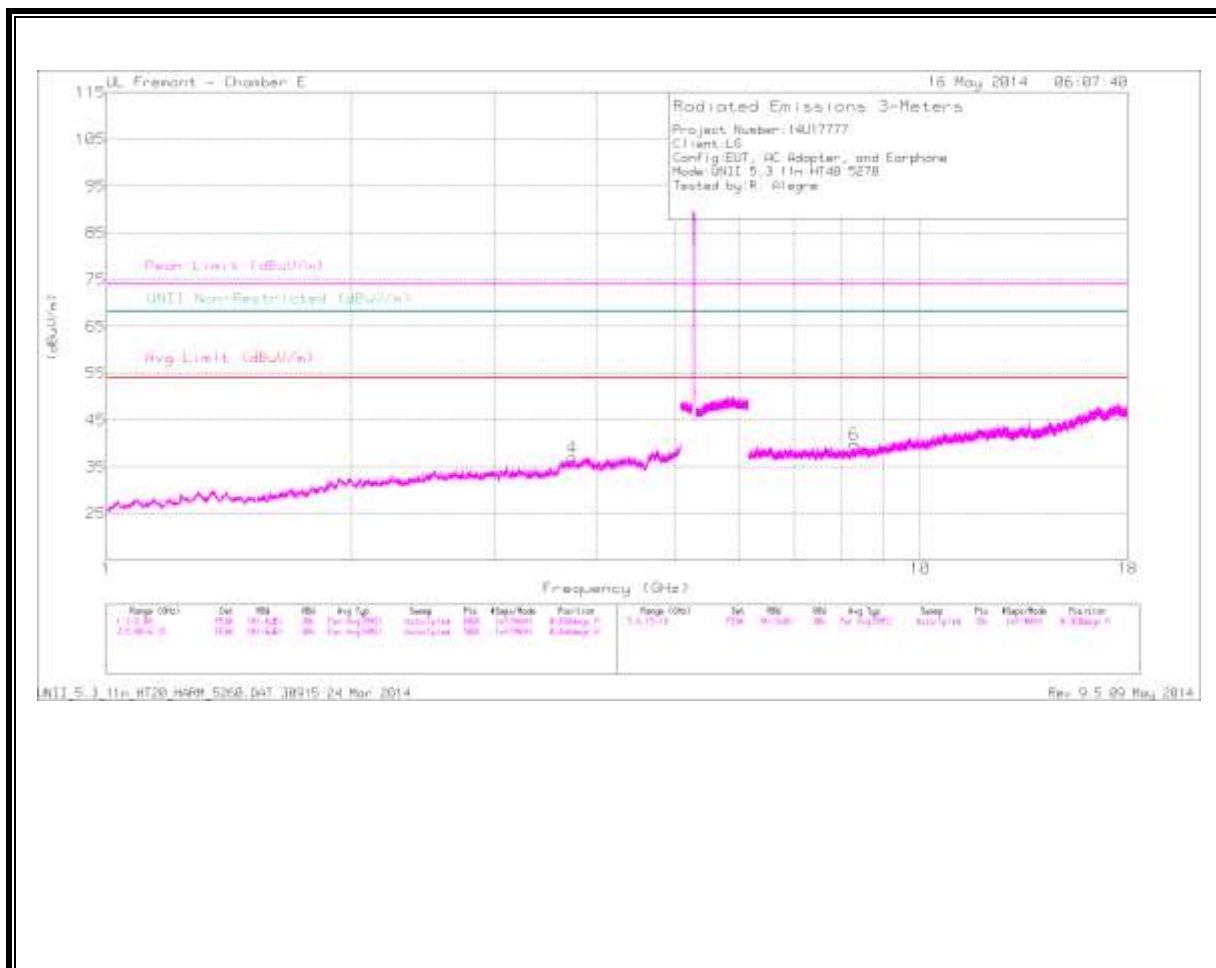
RMS - RMS detection



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 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.738	35.45	PK	33.4	-31.9	0	36.95	-	-	74	-37.05	-	-	0-360	199	H
1	* 1.355	36.39	PK	28.9	-34	0	31.29	-	-	74	-42.71	-	-	0-360	200	V
3	* 3.351	35	PK	32.7	-31.7	0	36	-	-	74	-38	-	-	0-360	101	V
6	* 8.3	30.9	PK	35.8	-26.9	0	39.8	-	-	74	-34.2	-	-	0-360	101	H
5	* 9.066	30.53	PK	36.4	-26.2	0	40.73	-	-	74	-33.27	-	-	0-360	200	V
2	2.437	36.84	PK	32.1	-33.1	0	35.84	-	-	-	-	68.2	-32.36	0-360	200	V

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

PK - Peak detector

Radiated Emissions

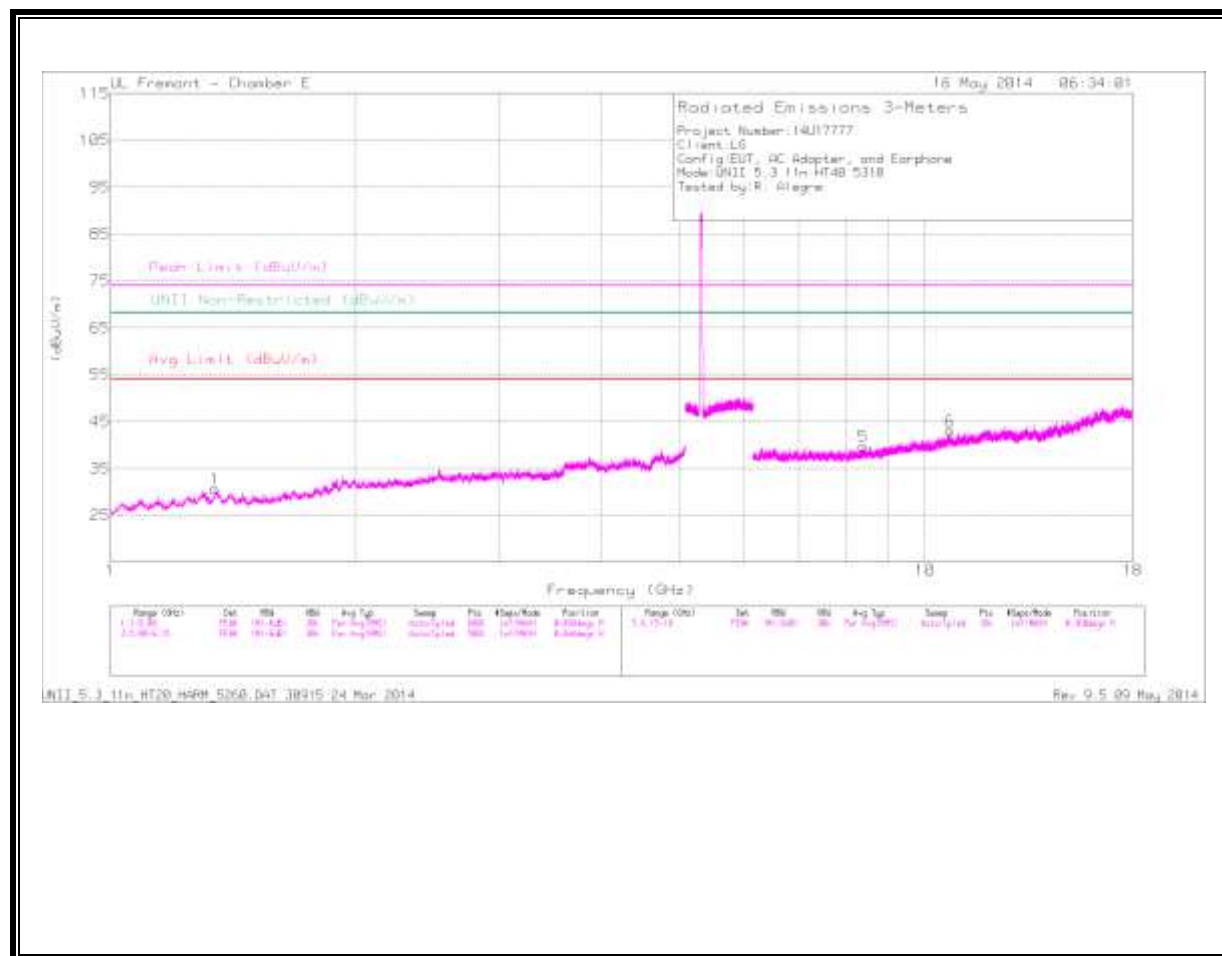
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.738	42.44	PK1	33.4	-31.9	0	43.94	-	-	74	-30.06	-	-	360	200	H
* 3.351	41.91	PK1	32.7	-31.7	0	42.91	-	-	74	-31.09	-	-	360	102	V
* 3.35	30.53	AD1	32.7	-31.7	.2	31.73	54	-22.27	-	-	-	-	360	102	V
* 1.357	43.59	PK1	28.9	-34	0	38.49	-	-	74	-35.51	-	-	360	200	V
* 8.302	38.27	PK1	35.8	-26.9	0	47.17	-	-	74	-26.83	-	-	360	102	H
* 9.064	38.03	PK1	36.4	-26.2	0	48.23	-	-	74	-25.77	-	-	360	200	V
2.436	43.23	PK1	32.1	-33.1	0	42.23	-	-	-	-	68.2	-25.97	360	200	V
2.436	31.02	AD1	32.1	-33.1	.2	30.22	-	-	-	-	-	-	360	200	V

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

PK1 - KDB789033 Method: Peak

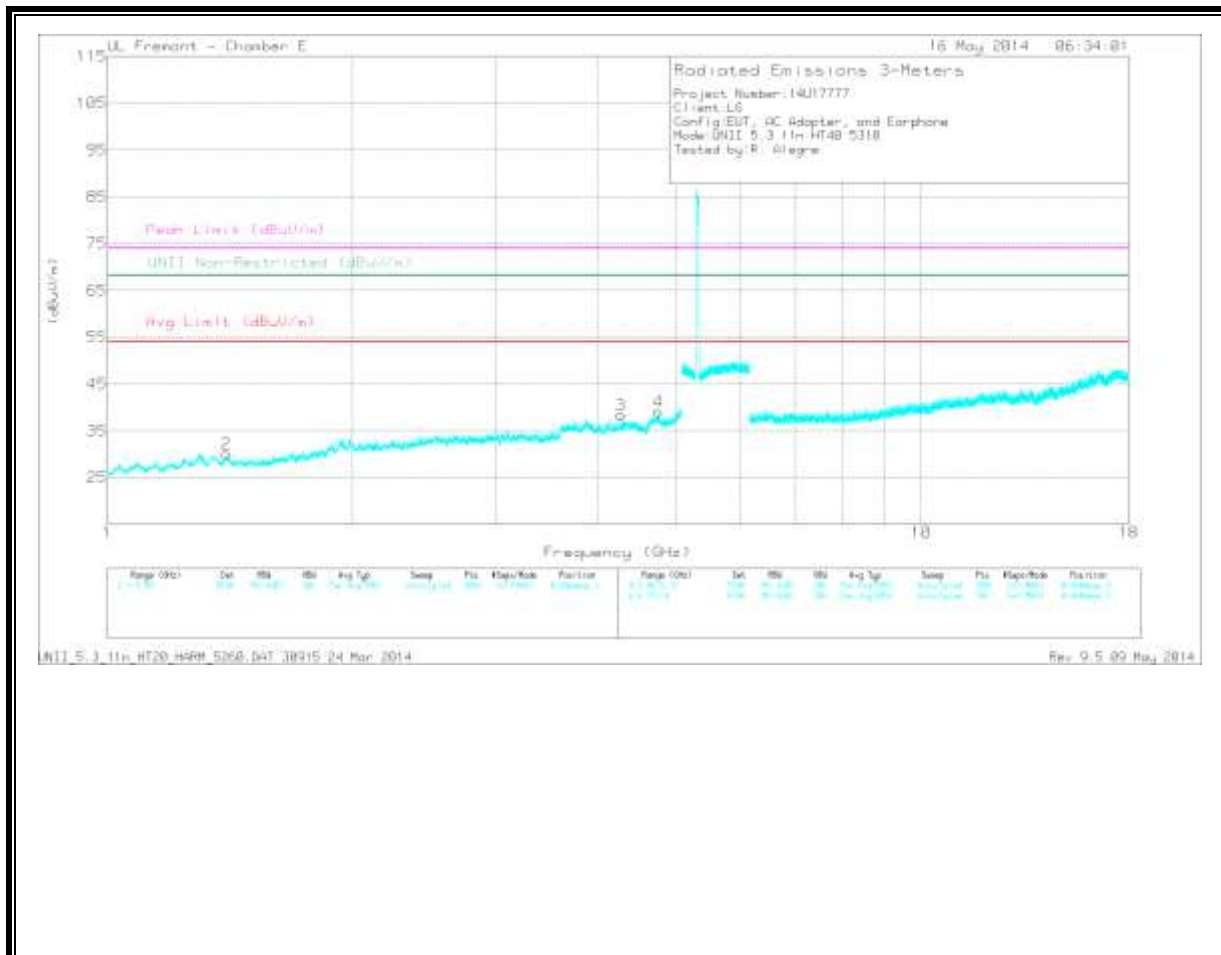
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL
HORIZONTAL



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

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.344	35.59	PK	28.9	-33.9	0	30.59	-	-	74	-43.41	-	-	0-360	101	H
2	* 1.401	35.57	PK	28.9	-34.3	0	30.17	-	-	74	-43.83	-	-	0-360	200	V
3	* 4.276	35.28	PK	33.5	-30.4	0	38.38	-	-	74	-35.62	-	-	0-360	101	V
4	* 4.752	35.64	PK	34.1	-30.6	0	39.14	-	-	74	-34.86	-	-	0-360	200	V
5	* 8.405	30.72	PK	35.9	-26.9	0	39.72	-	-	74	-34.28	-	-	0-360	101	H
6	* 10.746	28.79	PK	37.9	-23.7	0	42.99	-	-	74	-31.01	-	-	0-360	101	H

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

PK - Peak detector

Radiated Emissions

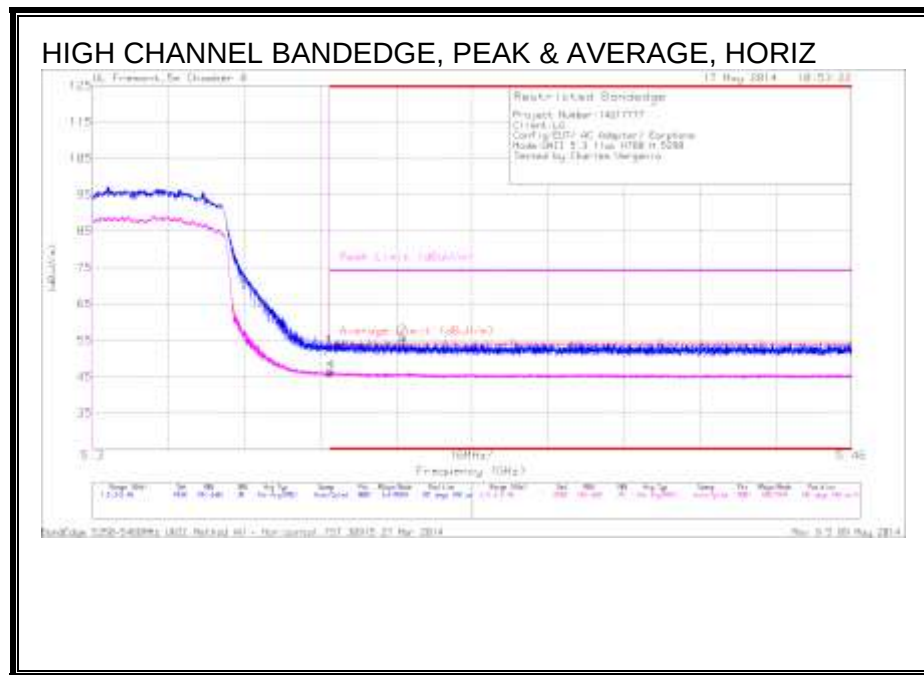
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.344	43.65	PK1	28.9	-33.9	0	38.65	-	-	74	-35.35	-	-	360	102	H
* 4.753	41.44	PK1	34.1	-30.6	0	44.94	-	-	74	-29.06	-	-	360	200	V
* 4.275	41.9	PK1	33.5	-30.4	0	45	-	-	74	-29	-	-	360	102	V
* 1.402	43.79	PK1	28.9	-34.3	0	38.39	-	-	74	-35.61	-	-	360	200	V
* 10.747	36.28	PK1	37.9	-23.7	0	50.48	-	-	74	-23.52	-	-	360	101	H
* 10.747	25.29	AD1	37.9	-23.7	.2	39.69	54	-14.31	-	-	-	-	360	101	H
* 8.407	38.75	PK1	35.9	-26.9	0	47.75	-	-	74	-26.25	-	-	360	101	H

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

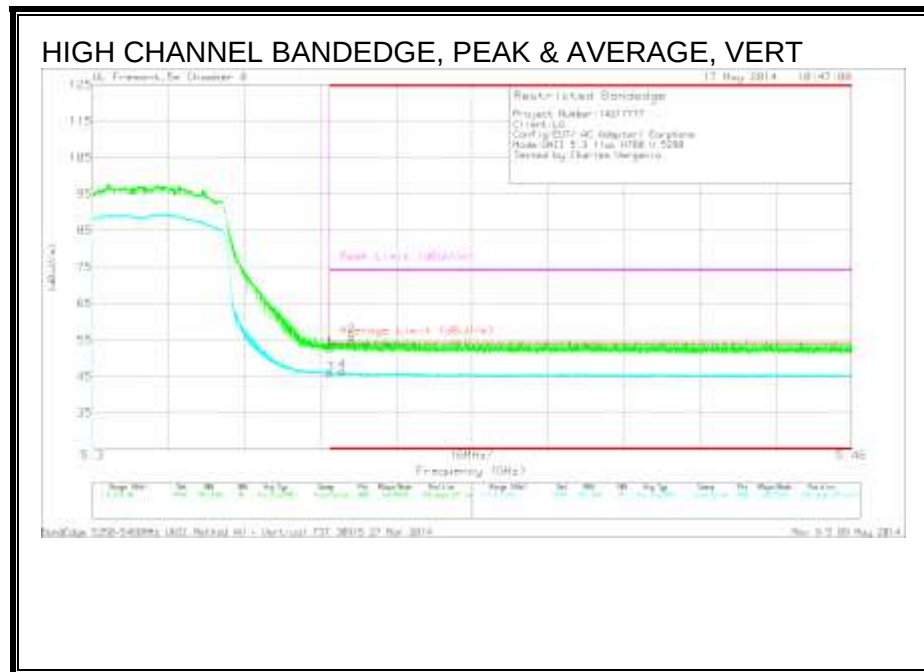


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.43	PK	34.5	-19.9	0	53.03	-	-	74	-20.97	101	188	H
2	* 5.366	41.31	PK	34.5	-19.9	0	55.91	-	-	74	-18.09	101	188	H
3	* 5.35	29.75	RMS	34.5	-19.9	1.5	45.85	54	-8.15	-	-	101	188	H
4	* 5.35	30.27	RMS	34.5	-19.9	1.5	46.37	54	-7.63	-	-	101	188	H

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

PK - Peak detector

RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.97	PK	34.5	-19.9	0	52.57	-	-	74	-21.43	156	247	V
2	* 5.355	41.35	PK	34.5	-20	0	55.85	-	-	74	-18.15	156	247	V
3	* 5.35	29.71	RMS	34.5	-19.9	1.5	45.81	54	-8.19	-	-	156	247	V
4	* 5.353	30.31	RMS	34.5	-20	1.5	46.31	54	-7.69	-	-	156	247	V

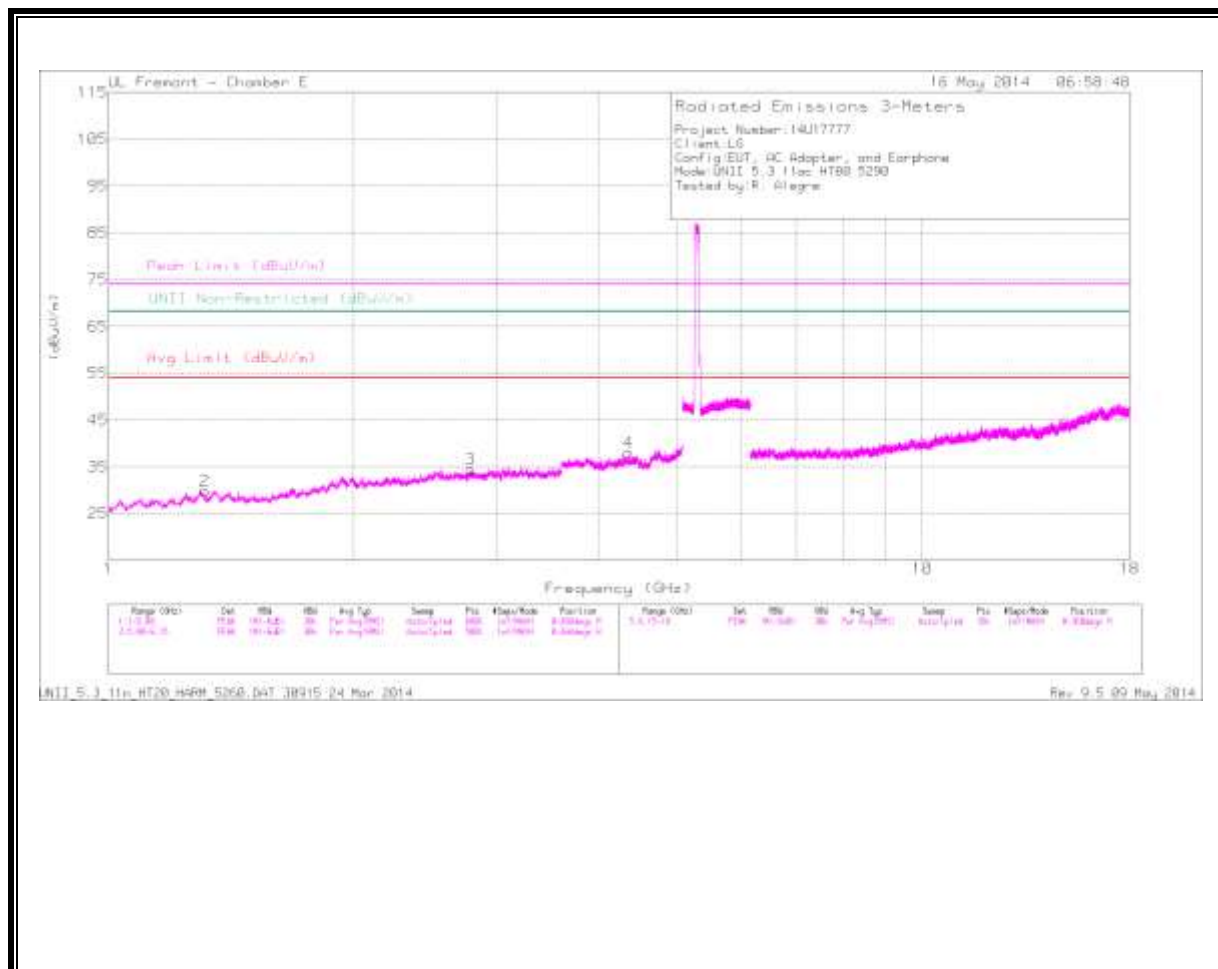
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

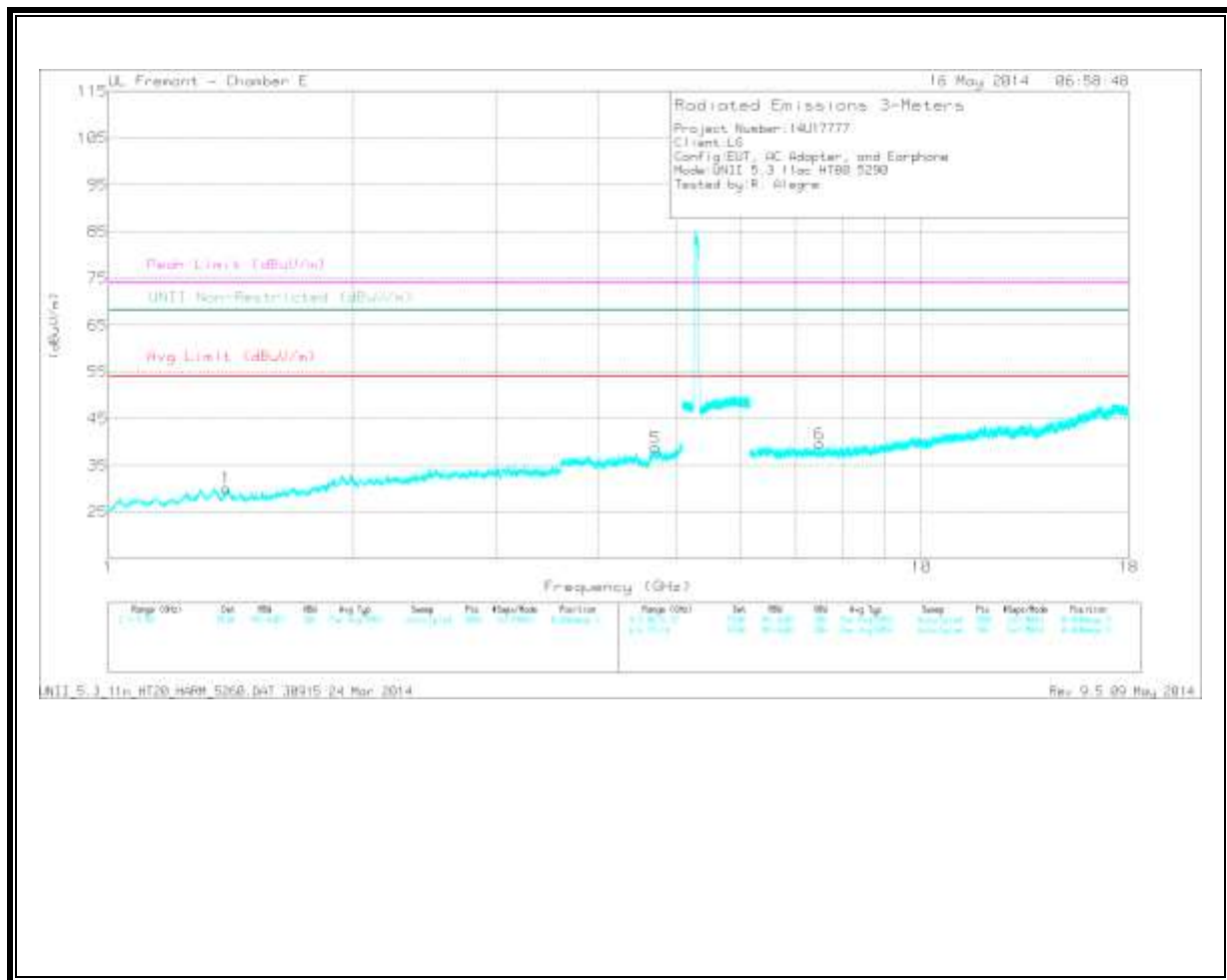
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.315	34.96	PK	29	-34.1	0	29.86	-	-	74	-44.14	-	-	0-360	102	H
3	* 2.784	34.16	PK	32.4	-32	0	34.56	-	-	74	-39.44	-	-	0-360	102	H
4	* 4.358	35.44	PK	33.7	-31.1	0	38.04	-	-	74	-35.96	-	-	0-360	102	H
1	* 1.396	35.48	PK	28.9	-34.2	0	30.18	-	-	74	-43.82	-	-	0-360	200	V
5	* 4.709	34.85	PK	34.2	-30.2	0	38.85	-	-	74	-35.15	-	-	0-360	101	V
6	* 7.496	32.46	PK	35.7	-28.5	0	39.66	-	-	74	-34.34	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

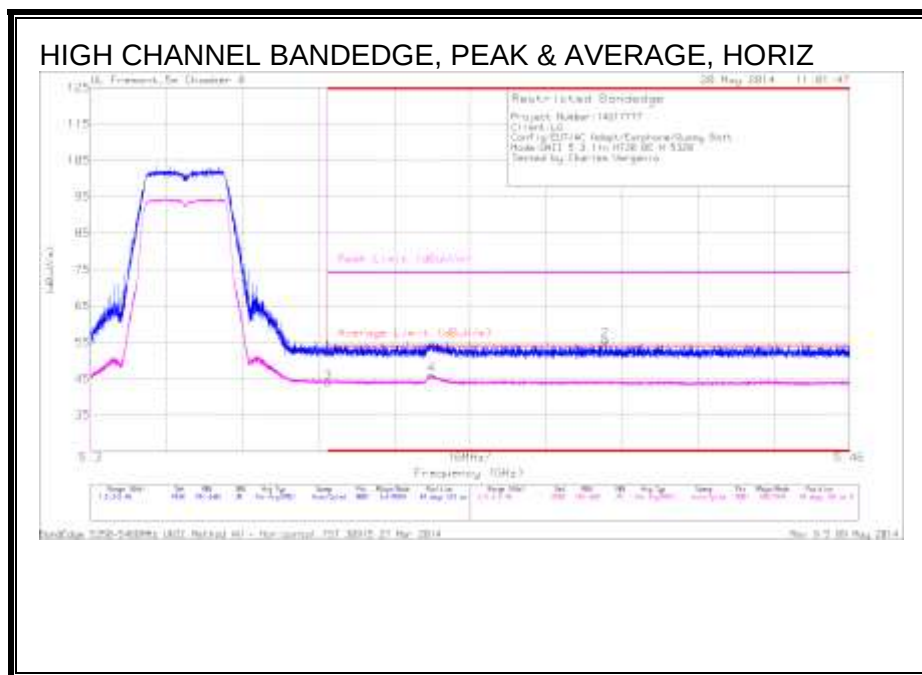
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.36	42.33	PK1	33.7	-31.1	0	44.93	-	-	74	-29.07	-	-	360	103	H
* 2.785	42.34	PK1	32.4	-32	0	42.74	-	-	74	-31.26	-	-	360	103	H
* 1.315	42.28	PK1	29	-34.1	0	37.18	-	-	74	-36.82	-	-	360	103	H
* 4.707	41.42	PK1	34.2	-30.1	0	45.52	-	-	74	-28.48	-	-	360	101	V
* 1.397	43.5	PK1	28.9	-34.2	0	38.2	-	-	74	-35.8	-	-	360	200	V
* 7.494	39.67	PK1	35.7	-28.5	0	46.87	-	-	74	-27.13	-	-	360	101	V
* 7.498	28.79	AD1	35.7	-28.5	1.5	37.49	54	-16.51	-	-	-	-	360	101	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH SMART COVER

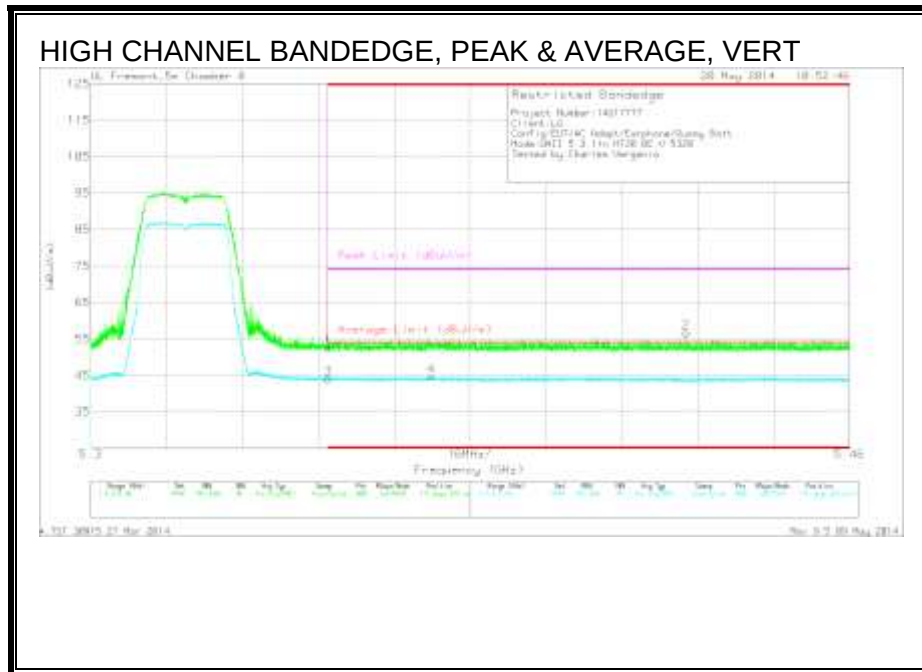


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.6	PK	34.5	-19.9	0	52.2	-	-	74	-21.8	44	183	H
2	* 5.408	41.24	PK	34.5	-20.1	0	55.64	-	-	74	-18.36	44	183	H
3	* 5.35	29.27	RMS	34.5	-19.9	.2	44.07	54	-9.93	-	-	44	183	H
4	* 5.372	31.17	RMS	34.5	-19.9	.2	45.97	54	-8.03	-	-	44	183	H

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

PK - Peak detector

RMS - RMS detection



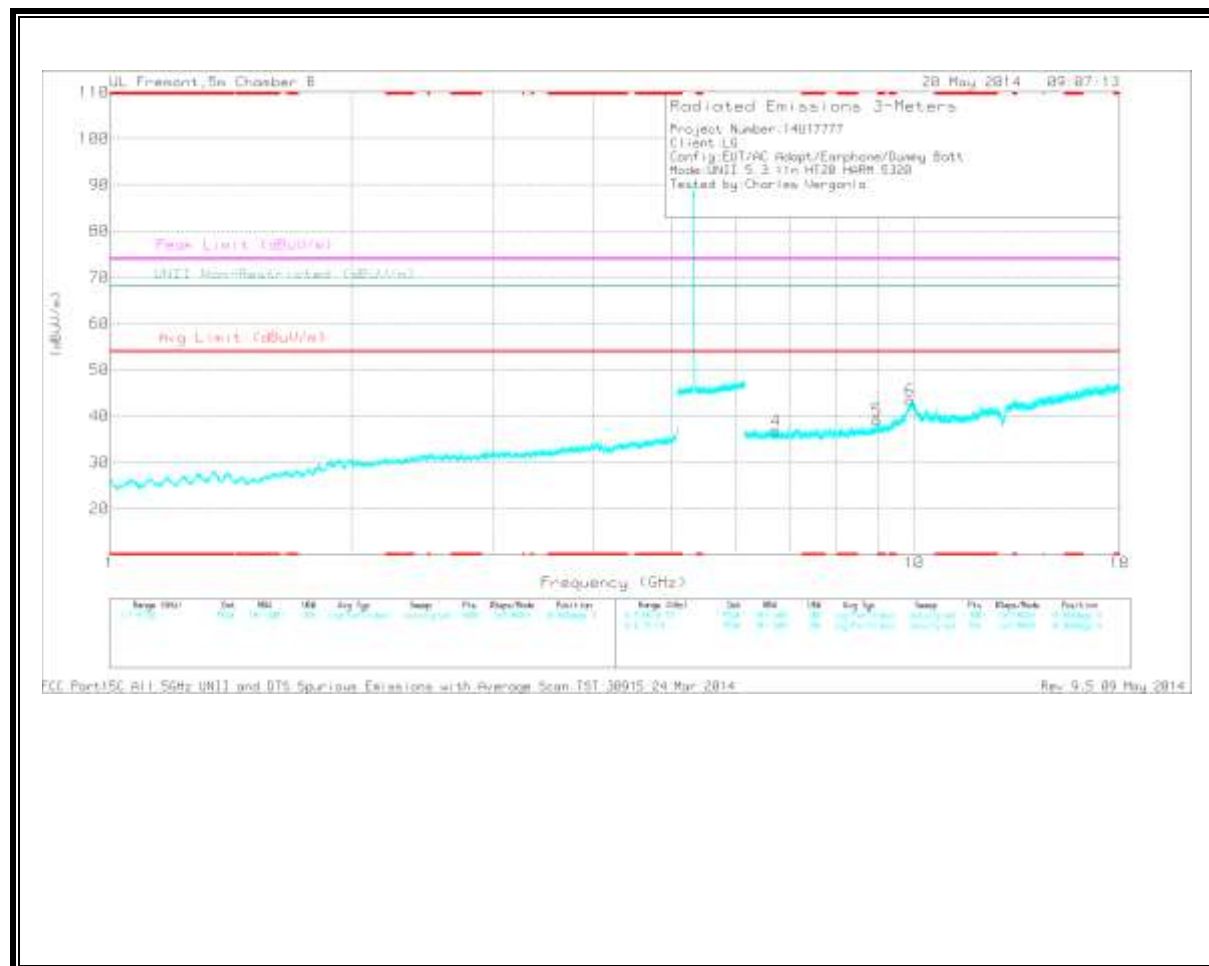
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	38.07	PK	34.5	-19.9	0	52.67	-	-	74	-21.33	171	265	V
2	* 5.426	42.18	PK	34.5	-20.1	0	56.58	-	-	74	-17.42	171	265	V
3	* 5.35	29.35	RMS	34.5	-19.9	.2	44.15	54	-9.85	-	-	171	265	V
4	* 5.372	29.87	RMS	34.5	-19.9	.2	44.67	54	-9.33	-	-	171	265	V

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

PK - Peak detector

RMS - RMS detection

VERTICAL



CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	1.823	33.02	PK	30.4	-33.8	0	29.62	-	-	-	-	68.2	-38.58	0-360	202	H
2	1.982	32.82	PK	31.3	-32.9	0	31.22	-	-	-	-	68.2	-36.98	0-360	99	H
3	2.464	32.32	PK	32.3	-32.3	0	32.32	-	-	-	-	68.2	-35.88	0-360	202	H
4	6.731	29.7	PK	35.7	-28.5	0	36.9	-	-	-	-	68.2	-31.3	0-360	99	V
5	8.982	27.65	PK	36.2	-24.7	0	39.15	-	-	-	-	68.2	-29.05	0-360	202	V
6	9.873	30.41	PK	37	-24	0	43.41	-	-	-	-	68.2	-24.79	0-360	202	V

PK - Peak detector

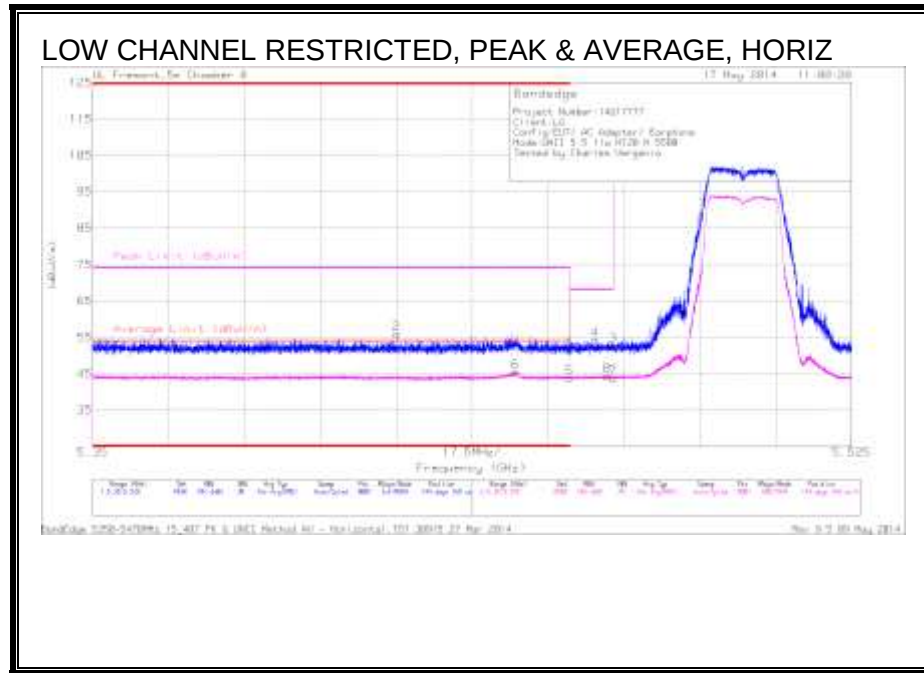
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
9.871	39.26	PK2	37	-24	0	52.26	-	-	-	-	68.2	-15.94	360	204	V
9.874	27.36	MAv1	37	-24.1	.2	40.46	-	-	-	-	-	-	360	204	V

PK2 - KDB558074 Method: Maximum Peak

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)

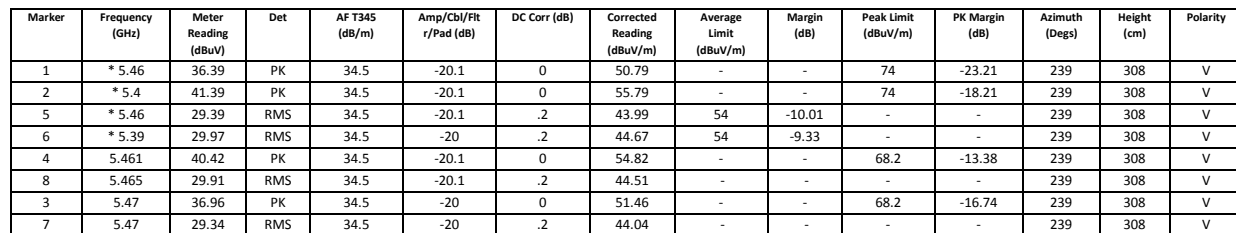


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.19	PK	34.5	-20.1	0	51.59	-	-	74	-22.41	144	169	H
2	* 5.42	41.62	PK	34.5	-20.1	0	56.02	-	-	74	-17.98	144	169	H
5	* 5.46	29.23	RMS	34.5	-20.1	.2	43.83	54	-10.17	-	-	144	169	H
6	* 5.447	30.92	RMS	34.5	-20.1	.2	45.52	54	-8.48	-	-	144	169	H
4	5.466	39.95	PK	34.5	-20.1	0	54.35	-	-	68.2	-13.85	144	169	H
8	5.469	29.8	RMS	34.5	-20	.2	44.5	-	-	-	-	144	169	H
3	5.47	38.43	PK	34.5	-20	0	52.93	-	-	68.2	-15.27	144	169	H
7	5.47	29.15	RMS	34.5	-20	.2	43.85	-	-	-	-	144	169	H

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

PK - Peak detector

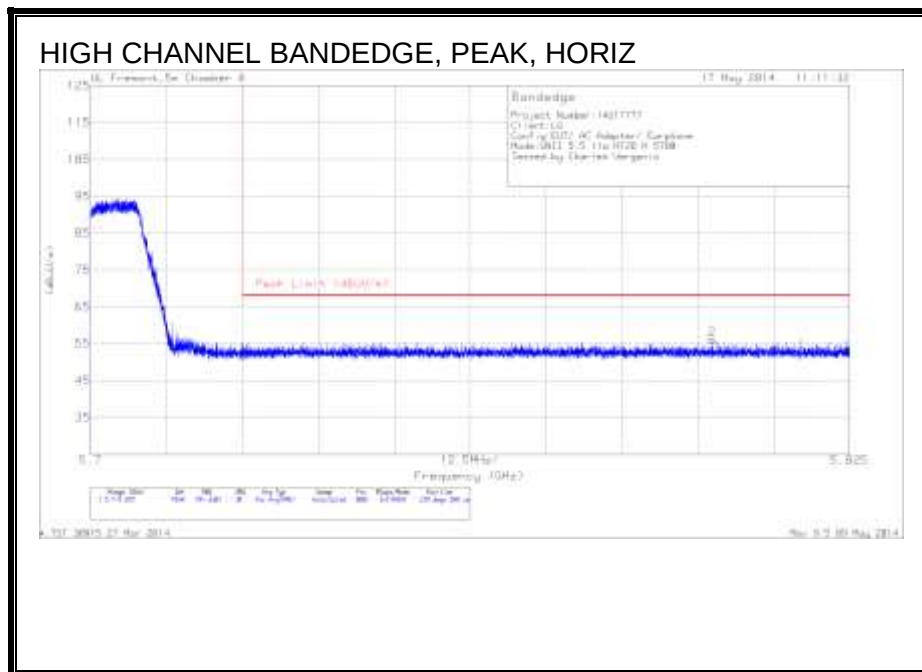
RMS - RMS detection



PK - Peak detector

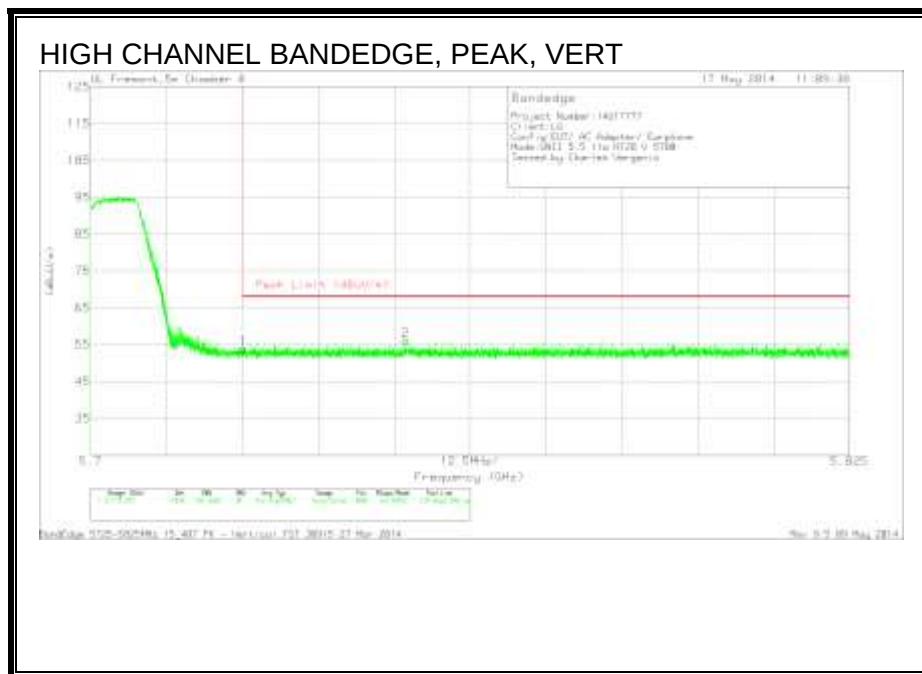
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	36.99	PK	34.6	-19.9	51.69	68.2	-16.51	239	308	H
2	5.802	41.17	PK	34.7	-19.7	56.17	68.2	-12.03	239	308	H

PK - Peak detector

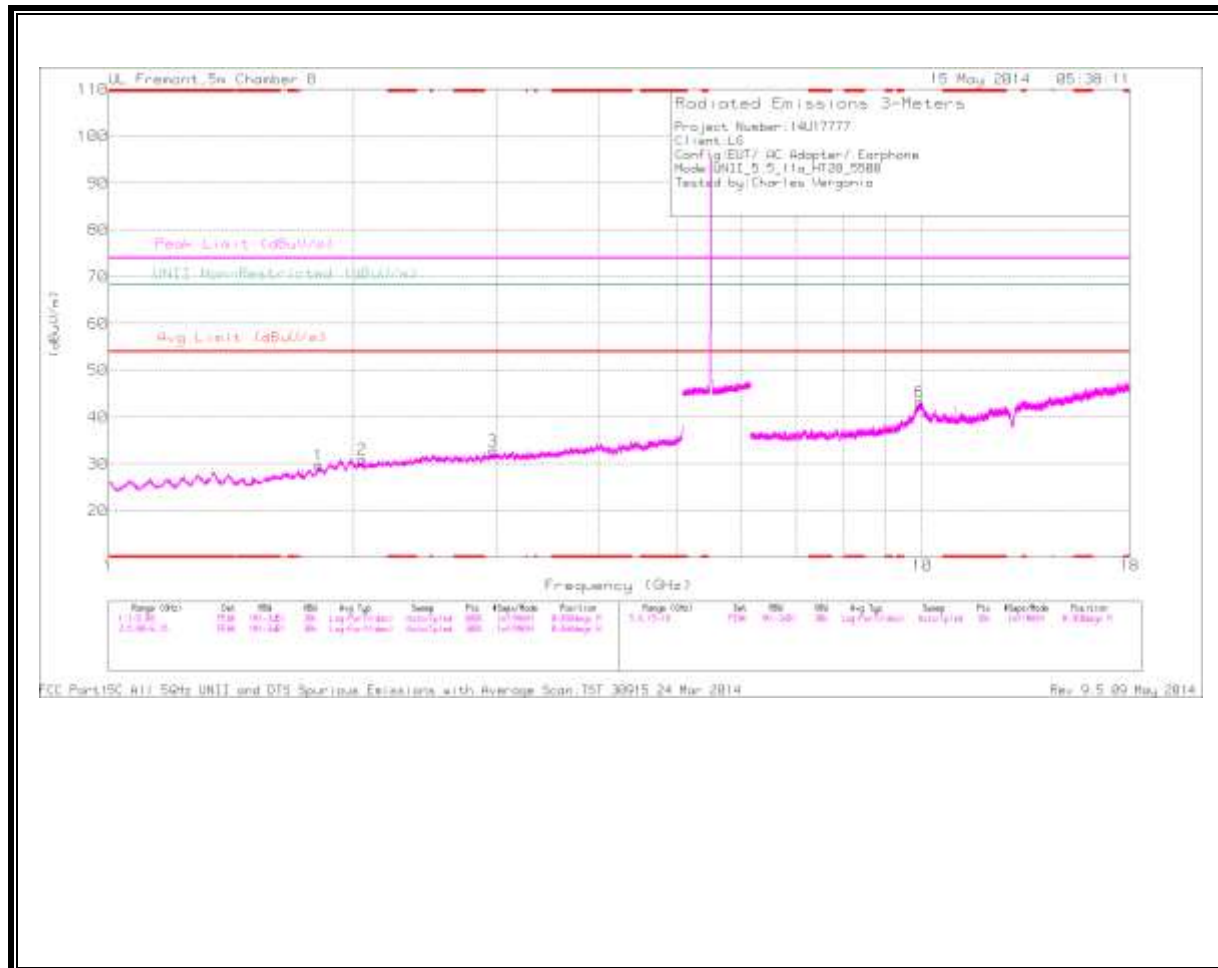


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.41	PK	34.6	-19.9	54.11	68.2	-14.09	239	308	V
2	5.752	41.43	PK	34.6	-19.8	56.23	68.2	-11.97	239	308	V

PK - Peak detector

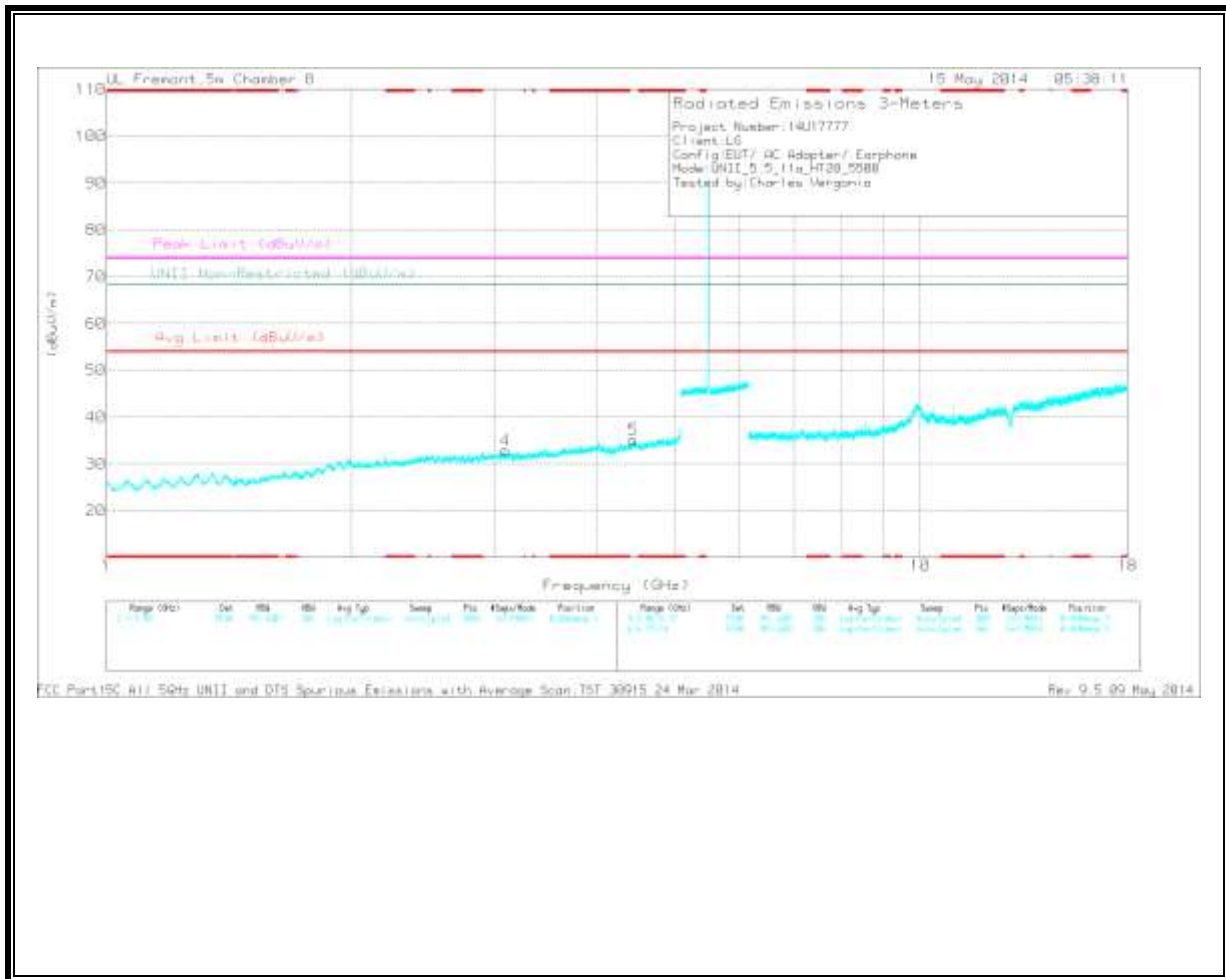
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL
HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.811	33.27	PK	30.3	-33.9	0	29.67	-	-	-	-	68.2	-38.53	0-360	99	H
2	2.052	33.41	PK	31.3	-33.8	0	30.91	-	-	-	-	68.2	-37.29	0-360	202	H
3	2.967	31.92	PK	32.7	-31.9	0	32.72	-	-	-	-	68.2	-35.48	0-360	99	H
4	3.096	32.01	PK	32.9	-32	0	32.91	-	-	-	-	68.2	-35.29	0-360	99	V
5	4.443	30.88	PK	33.9	-29.6	0	35.18	-	-	-	-	68.2	-33.02	0-360	99	V
6	9.928	30.14	PK	37	-23.9	0	43.24	-	-	-	-	68.2	-24.96	0-360	99	H

PK - Peak detector

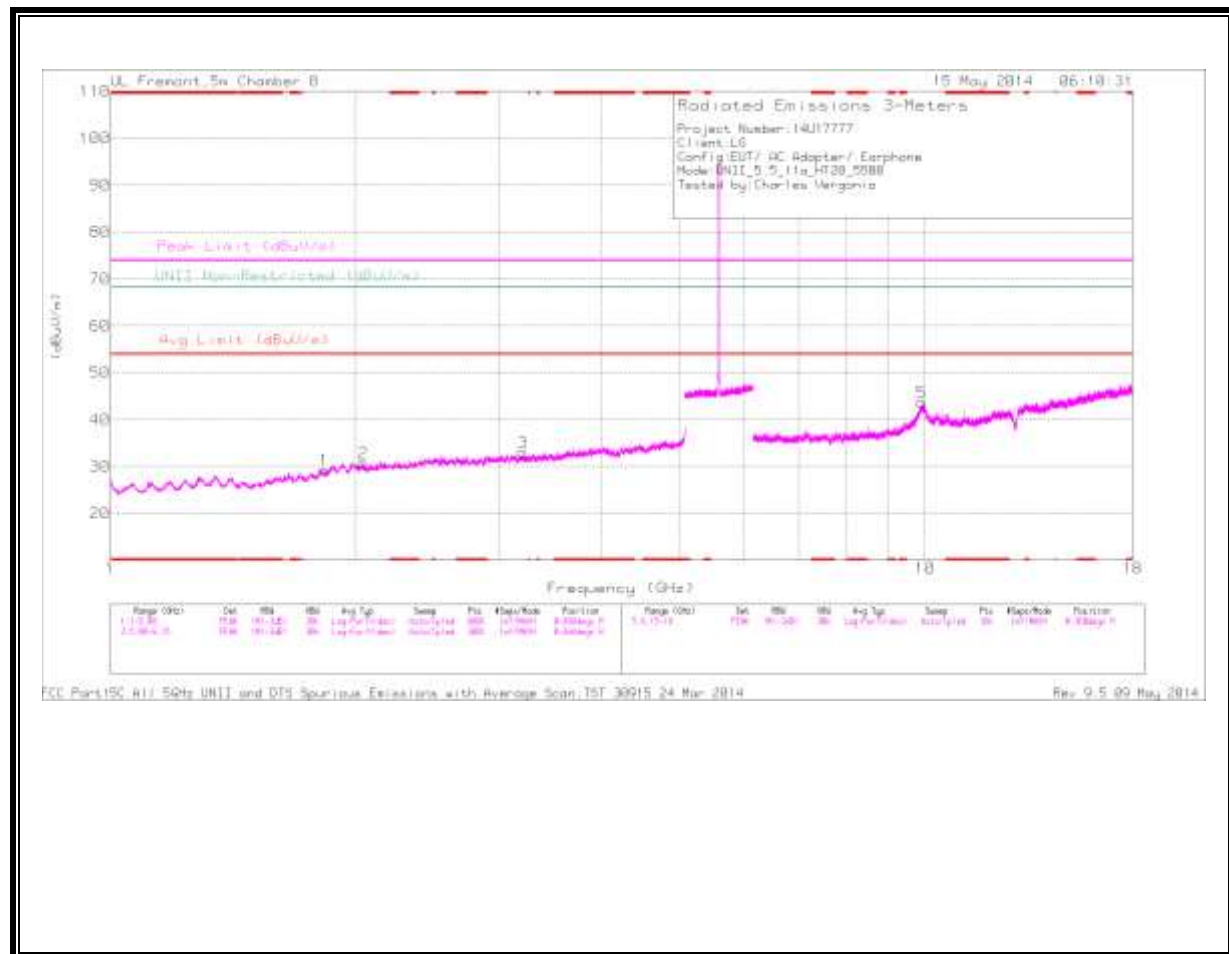
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.926	27.59	AD1	37	-23.9	.2	40.89	-	-	-	-	-	-	360	100	H
9.928	39.12	PK1	37	-23.9	0	52.22	-	-	-	-	68.2	-15.98	360	100	H

PK1 - KDB789033 Method: Peak

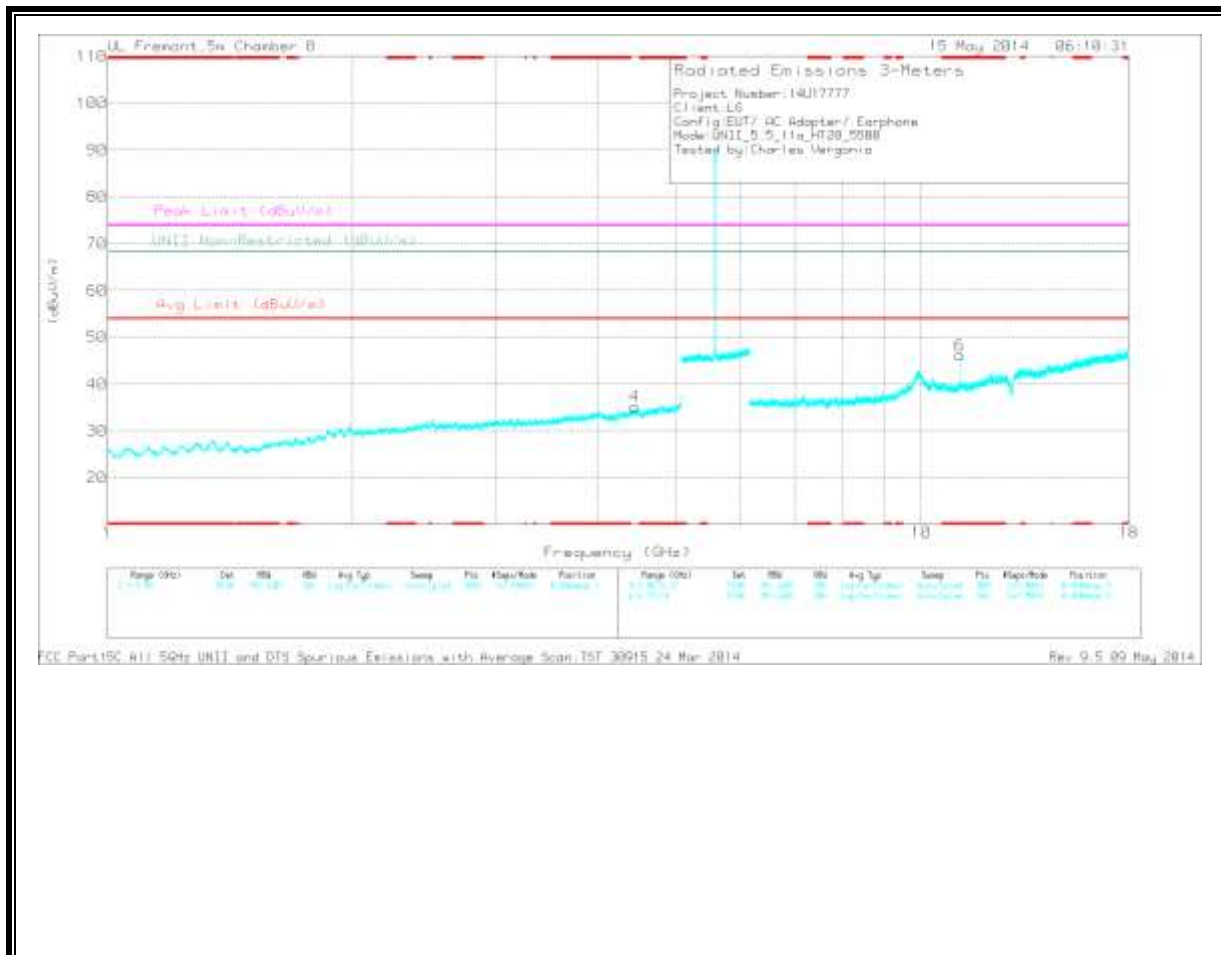
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL
HORIZONTAL



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

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.16	30.4	PK	37.9	-22.2	0	46.1	-	-	74	-27.9	-	-	0-360	202	V
1	1.828	32.61	PK	30.4	-33.7	0	29.31	-	-	-	-	68.2	-38.89	0-360	201	H
2	2.044	33.03	PK	31.3	-33.6	0	30.73	-	-	-	-	68.2	-37.47	0-360	99	H
3	3.208	31.95	PK	32.8	-31.7	0	33.05	-	-	-	-	68.2	-35.15	0-360	201	H
4	4.447	31	PK	33.9	-29.6	0	35.3	-	-	-	-	68.2	-32.9	0-360	99	V
5	9.914	30.87	PK	37	-24.2	0	43.67	-	-	-	-	68.2	-24.53	0-360	201	H

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

PK - Peak detector

Radiated Emissions

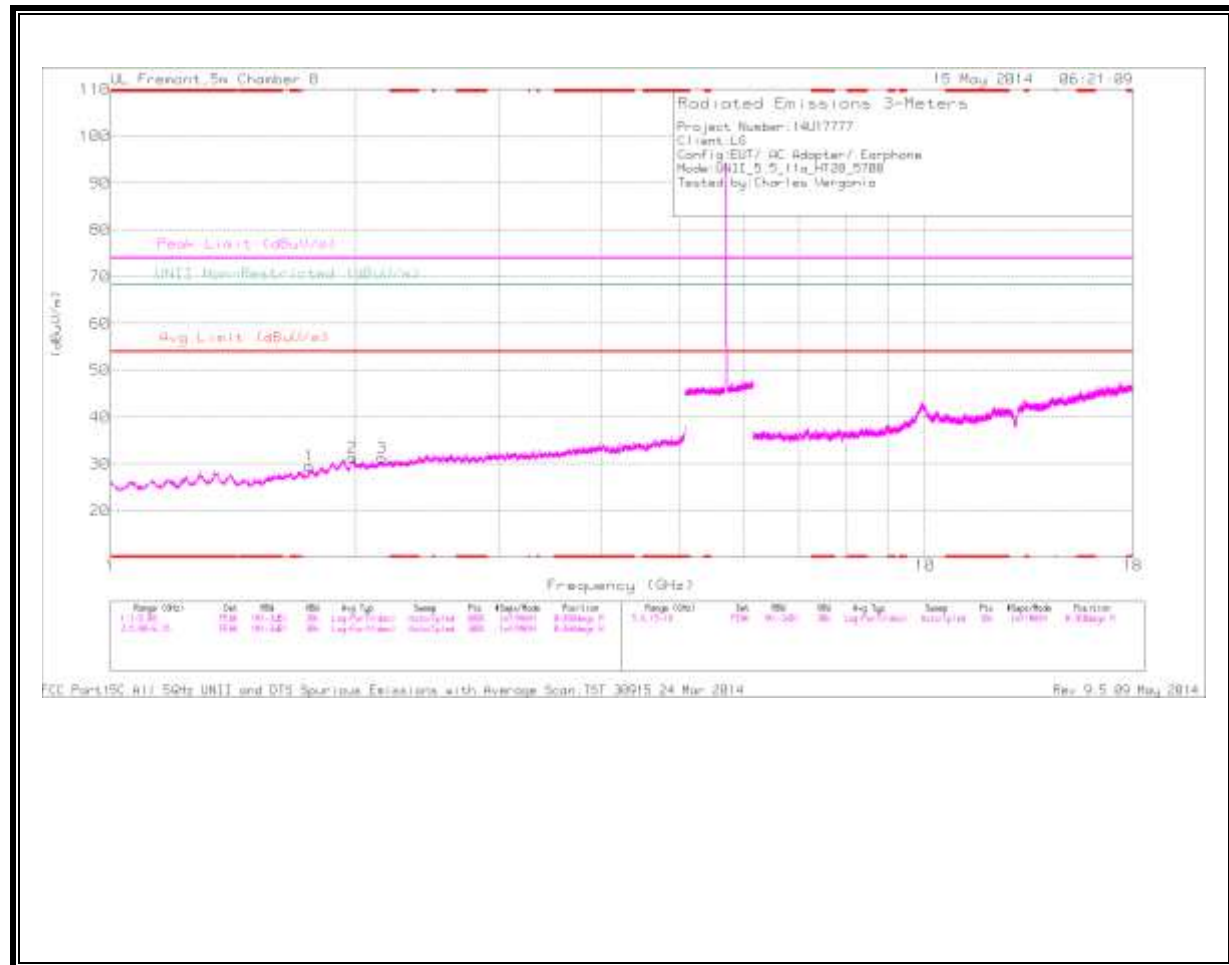
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.16	37.19	PK1	37.9	-22.2	0	52.89	-	-	74	-21.11	-	-	24	221	V
* 11.16	28.35	AD1	37.9	-22.2	.2	44.25	54	-9.75	-	-	-	-	24	221	V
9.912	38.82	PK1	37	-24.1	0	51.72	-	-	-	-	68.2	-16.48	359	202	H
9.912	27.99	AD1	37	-24.2	.2	40.99	-	-	-	-	-	-	359	202	H

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

PK1 - KDB789033 Method: Peak

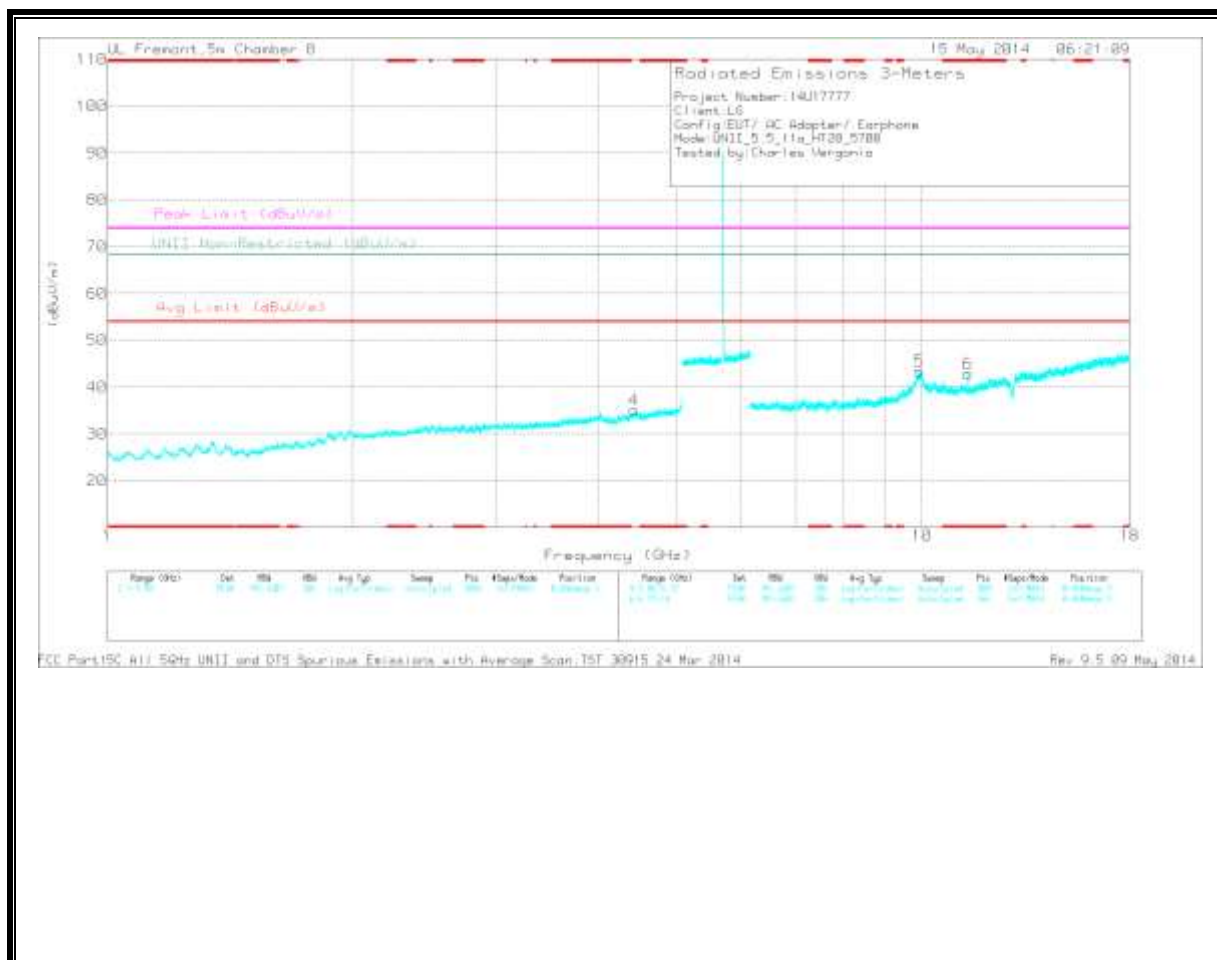
AD1 - KDB789033 Method: AD Primary Power Average

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.

VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.399	27.32	PK	38	-22.4	0	42.92	-	-	74	-31.08	-	-	0-360	99	V
1	1.754	33.79	PK	29.7	-33.9	0	29.59	-	-	-	-	68.2	-38.61	0-360	99	H
2	1.983	33.01	PK	31.3	-32.9	0	31.41	-	-	-	-	68.2	-36.79	0-360	99	H
3	2.153	32.75	PK	31.3	-32.7	0	31.35	-	-	-	-	68.2	-36.85	0-360	99	H
4	4.431	30.91	PK	33.9	-29.7	0	35.11	-	-	-	-	68.2	-33.09	0-360	99	V
5	9.925	30.31	PK	37	-23.9	0	43.41	-	-	-	-	68.2	-24.79	0-360	202	V

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

PK - Peak detector

Radiated Emissions

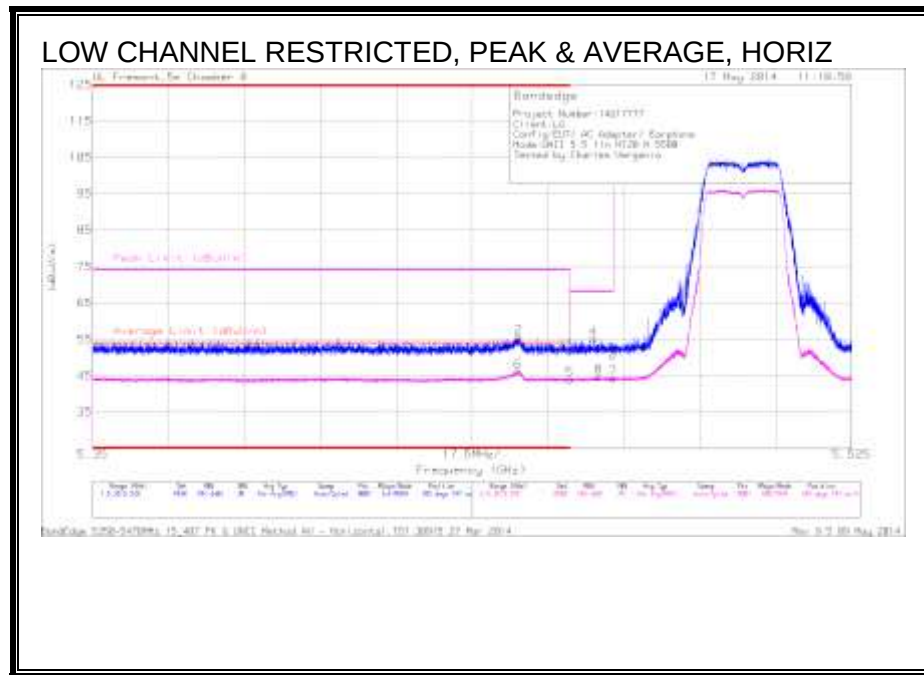
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.4	36.24	PK1	38	-22.4	0	51.84	-	-	74	-22.16	-	-	44	233	V
* 11.4	27.13	AD1	38	-22.4	.2	42.93	54	-11.07	-	-	-	-	44	233	V
9.923	38.9	PK1	37	-24	0	51.9	-	-	-	-	68.2	-16.3	1	204	V
9.923	27.67	AD1	37	-24	.2	40.87	-	-	-	-	-	-	1	204	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 HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEGE (LOW CHANNEL)

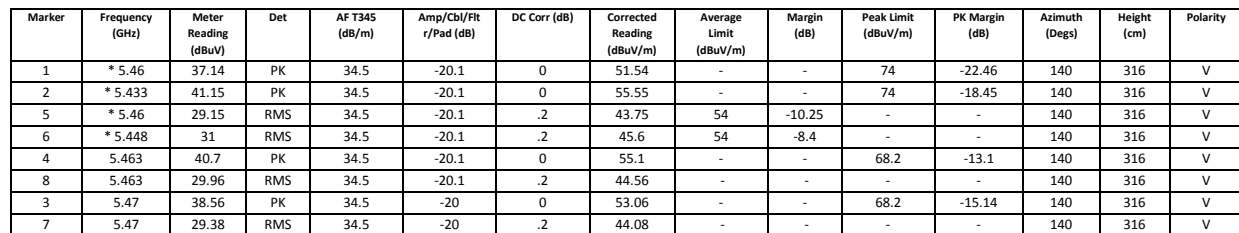


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.41	PK	34.5	-20.1	0	51.81	-	-	74	-22.19	105	197	H
2	* 5.448	41.22	PK	34.5	-20.1	0	55.62	-	-	74	-18.38	105	197	H
5	* 5.46	29.39	RMS	34.5	-20.1	.2	43.99	54	-10.01	-	-	105	197	H
6	* 5.448	31.59	RMS	34.5	-20.1	.2	46.19	54	-7.81	-	-	105	197	H
4	5.466	40.78	PK	34.5	-20.1	0	55.18	-	-	68.2	-13.02	105	197	H
8	5.467	30.05	RMS	34.5	-20.1	.2	44.65	-	-	-	-	105	197	H
3	5.47	36.21	PK	34.5	-20	0	50.71	-	-	68.2	-17.49	105	197	H
7	5.47	29.6	RMS	34.5	-20	.2	44.3	-	-	-	-	105	197	H

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

PK - Peak detector

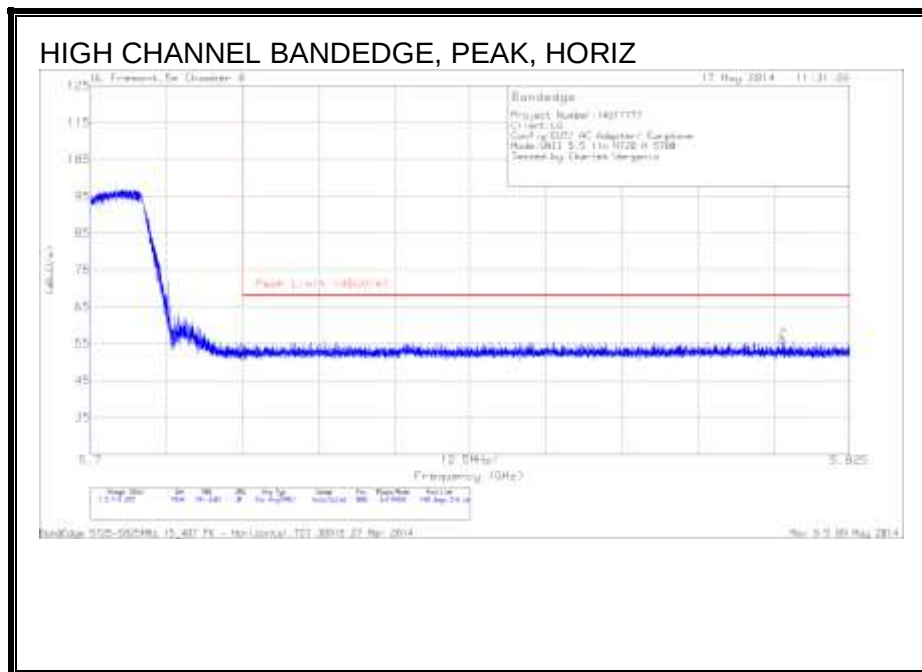
RMS - RMS detection



PK - Peak detector

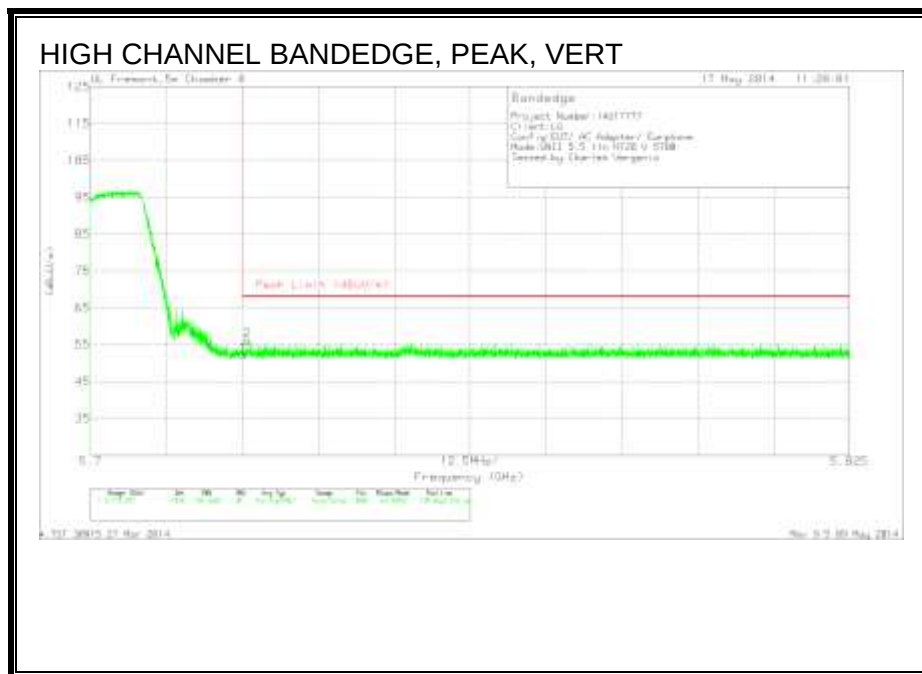
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	36.94	PK	34.6	-19.9	51.64	68.2	-16.56	140	316	H
2	5.814	41.12	PK	34.7	-19.8	56.02	68.2	-12.18	140	316	H

PK - Peak detector

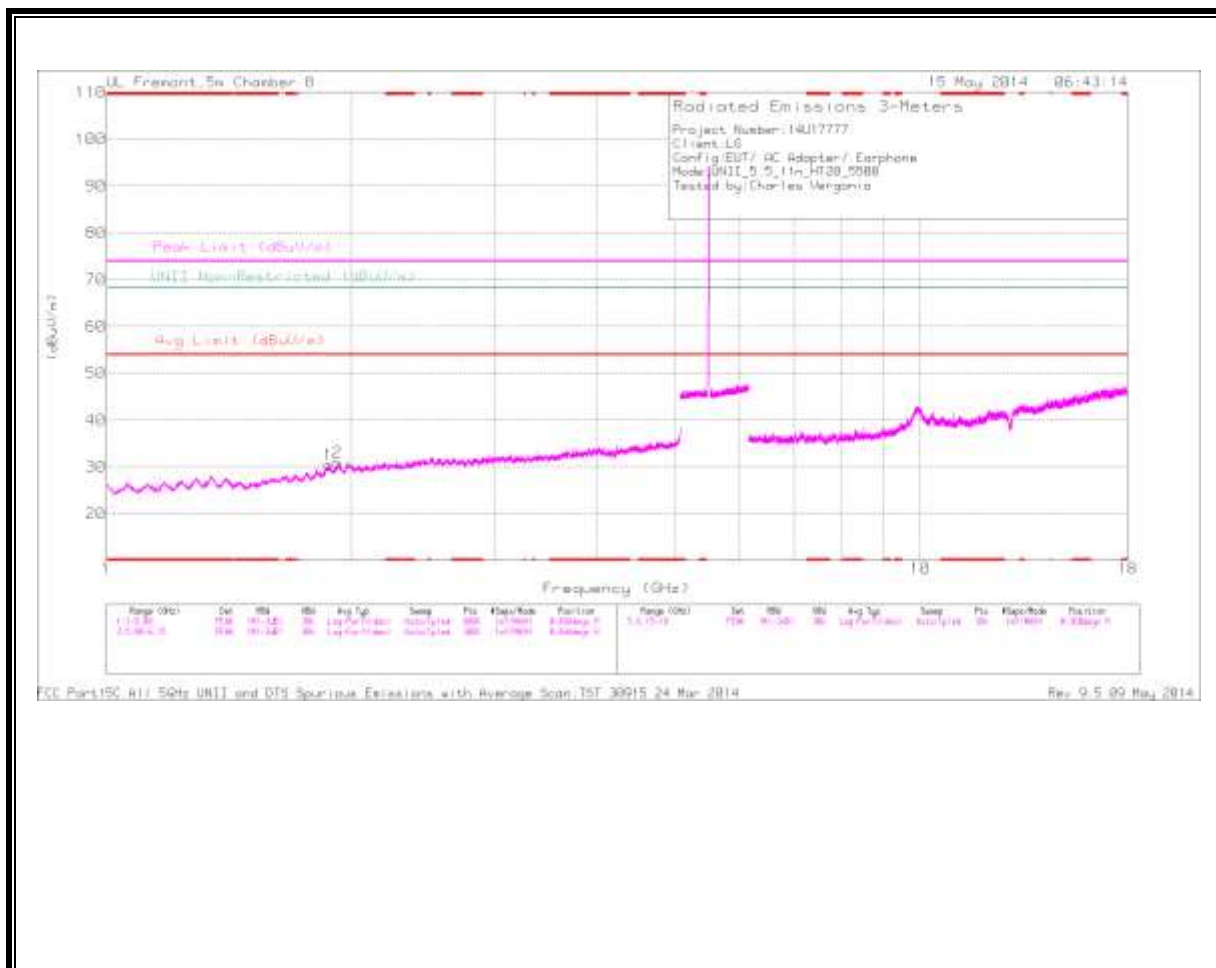


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.6	PK	34.6	-19.9	52.3	68.2	-15.9	140	316	V
2	5.726	41.45	PK	34.6	-19.9	56.15	68.2	-12.05	140	316	V

PK - Peak detector

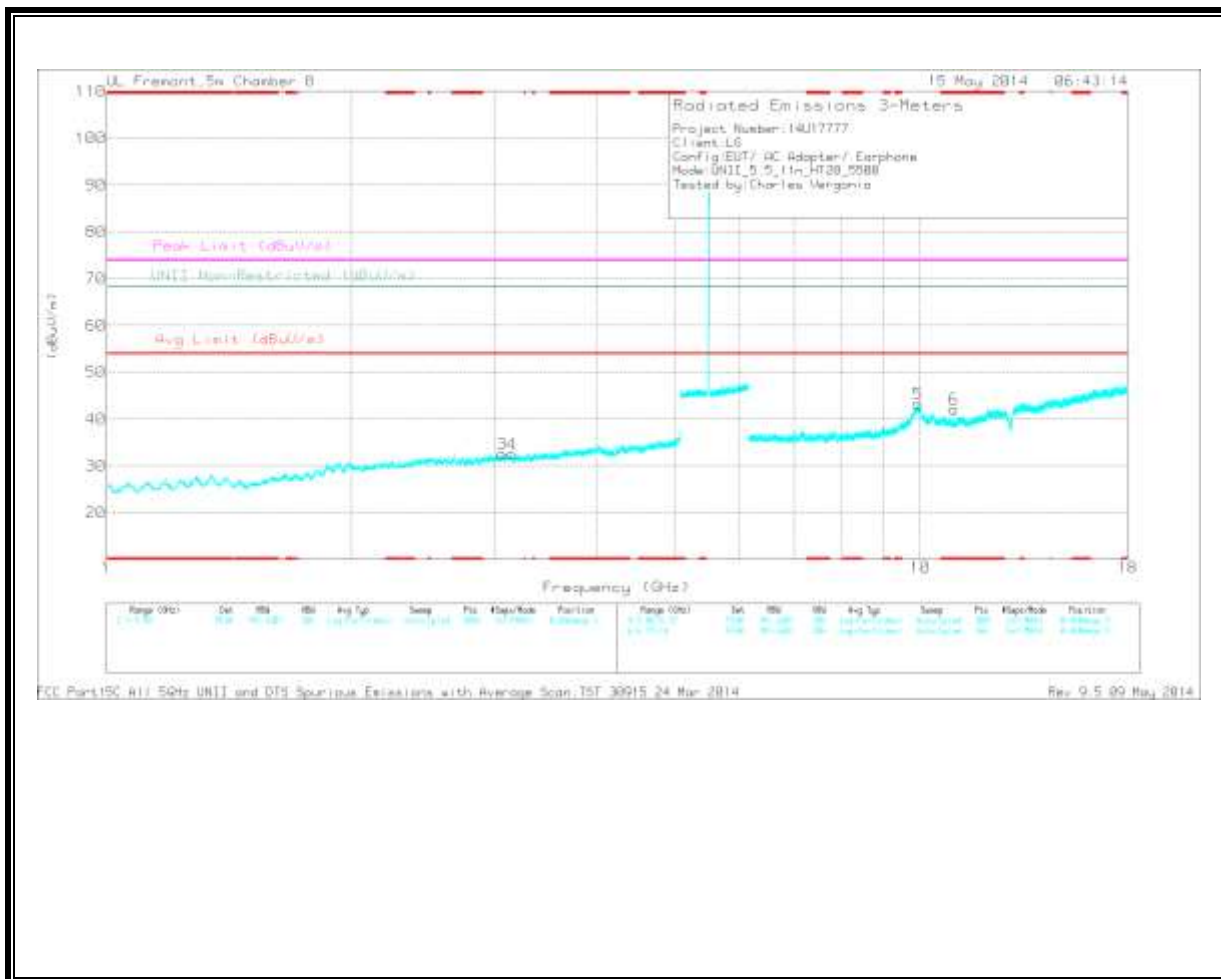
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/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
6	* 10.999	26.73	PK	37.8	-22.4	0	42.13	-	-	74	-31.87	-	-	0-360	99	V
1	1.872	32.79	PK	30.8	-33.2	0	30.39	-	-	-	-	68.2	-37.81	0-360	99	H
2	1.921	32.75	PK	31.1	-32.9	0	30.95	-	-	-	-	68.2	-37.25	0-360	202	H
3	3.06	31.88	PK	32.8	-32.2	0	32.48	-	-	-	-	68.2	-35.72	0-360	99	V
4	3.145	31.32	PK	32.8	-31.6	0	32.52	-	-	-	-	68.2	-35.68	0-360	99	V
5	9.94	30.29	PK	37	-24	0	43.29	-	-	-	-	68.2	-24.91	0-360	202	V

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

PK - Peak detector

Radiated Emissions

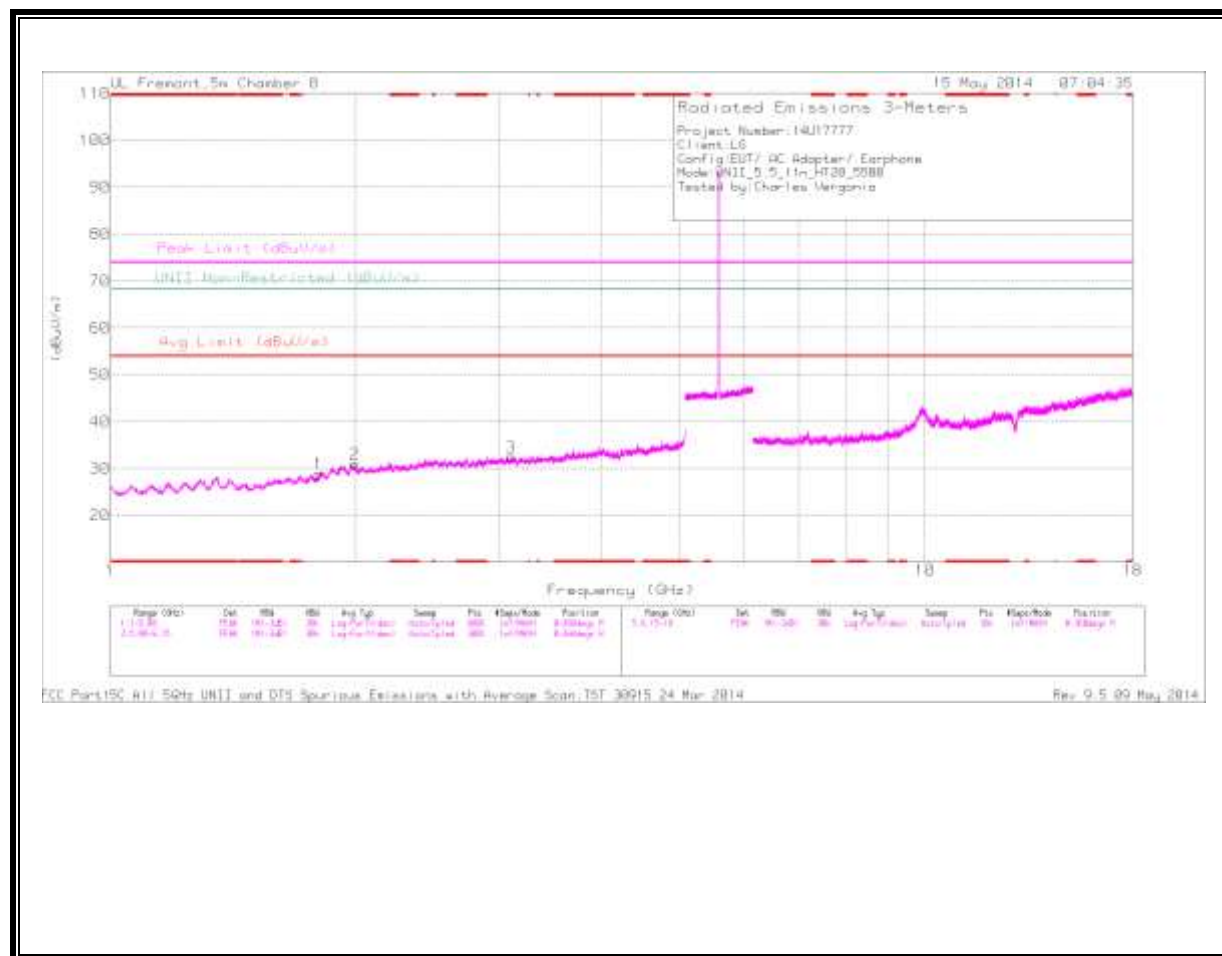
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11	34.84	PK1	37.8	-22.4	0	50.24	-	-	74	-23.76	-	-	1	100	V
* 11	25.11	AD1	37.8	-22.4	.2	40.71	54	-13.29	-	-	-	-	1	100	V
9.939	27.86	AD1	37	-24	.2	41.06	-	-	-	-	-	-	1	204	V
9.942	39.03	PK1	37	-24.1	0	51.93	-	-	-	-	68.2	-16.27	1	204	V

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

PK1 - KDB789033 Method: Peak

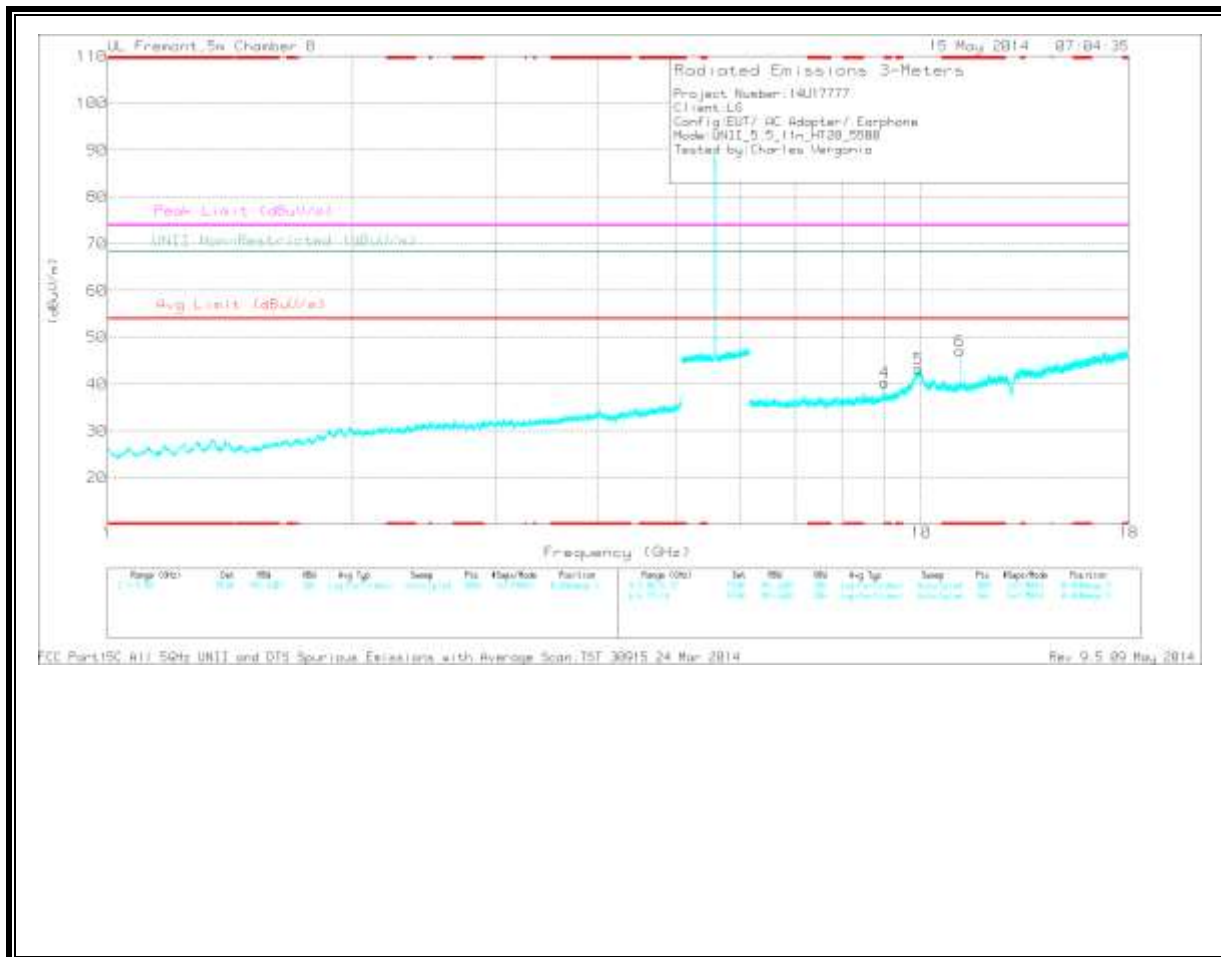
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL
HORIZONTAL



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

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/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	* 9.009	29.06	PK	36.2	-25	0	40.26	-	-	74	-33.74	-	-	0-360	202	V
6	* 11.16	31.36	PK	37.9	-22.2	0	47.06	-	-	74	-26.94	-	-	0-360	202	V
1	1.801	32.72	PK	30.2	-34	0	28.92	-	-	-	-	68.2	-39.28	0-360	99	H
2	1.994	32.75	PK	31.3	-33.1	0	30.95	-	-	-	-	68.2	-37.25	0-360	99	H
3	3.103	31.4	PK	32.9	-31.9	0	32.4	-	-	-	-	68.2	-35.8	0-360	99	H
5	9.918	30.37	PK	37	-24.1	0	43.27	-	-	-	-	68.2	-24.93	0-360	202	V

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

PK - Peak detector

Radiated Emissions

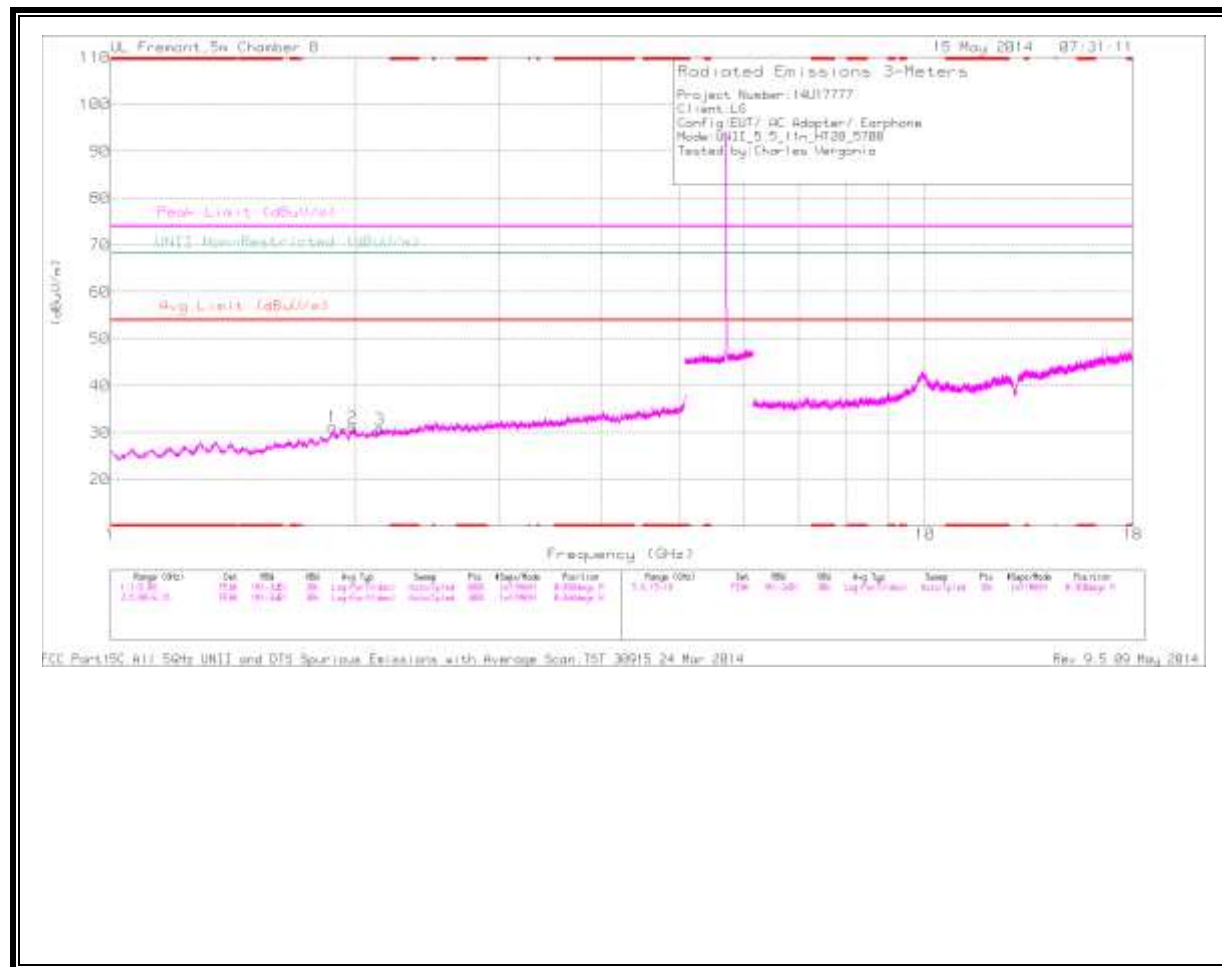
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 9.01	35.83	PK1	36.2	-25	0	47.03	-	-	74	-26.97	-	-	1	204	V
* 9.01	24.66	AD1	36.2	-25	.2	36.06	54	-17.94	-	-	-	-	1	204	V
* 11.16	38.79	PK1	37.9	-22.2	0	54.49	-	-	74	-19.51	-	-	45	310	V
* 11.16	32.18	AD1	37.9	-22.2	.2	48.08	54	-5.92	-	-	-	-	45	310	V
9.916	27.6	AD1	37	-24.1	.2	40.7	-	-	-	-	-	-	1	204	V
9.916	27.6	AD1	37	-24.1	.2	40.7	-	-	-	-	-	-	1	204	V
9.918	39.3	PK1	37	-24.1	0	52.2	-	-	-	-	68.2	-16	1	204	V
9.919	39.72	PK1	37	-24.1	0	52.62	-	-	-	-	68.2	-15.58	1	204	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 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.4	27.1	PK	38	-22.4	0	42.7	-	-	74	-31.3	-	-	0-360	99	V
1	1.872	33.56	PK	30.8	-33.2	0	31.16	-	-	-	-	68.2	-37.04	0-360	201	H
2	1.981	32.63	PK	31.3	-32.9	0	31.03	-	-	-	-	68.2	-37.17	0-360	201	H
3	2.143	32.3	PK	31.3	-32.9	0	30.7	-	-	-	-	68.2	-37.5	0-360	99	H
4	3.064	32.28	PK	32.8	-32.2	0	32.88	-	-	-	-	68.2	-35.32	0-360	99	V
5	9.929	30.05	PK	37	-23.9	0	43.15	-	-	-	-	68.2	-25.05	0-360	202	V

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

PK - Peak detector

Radiated Emissions

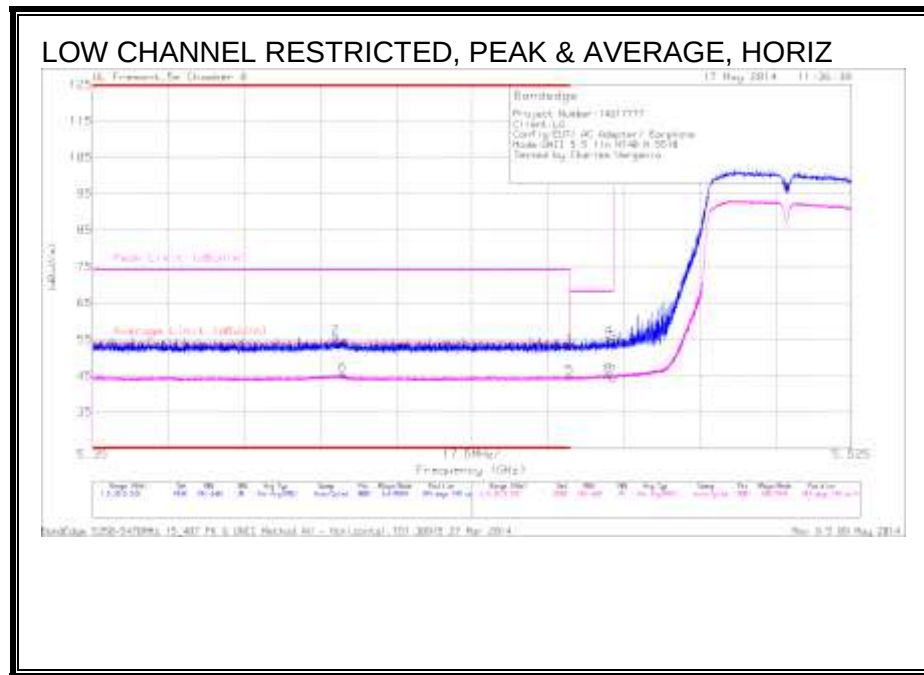
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.4	36.74	PK1	38	-22.4	0	52.34	-	-	74	-21.66	-	-	50	243	V
* 11.4	28.38	AD1	38	-22.4	.2	44.18	54	-9.82	-	-	-	-	50	243	V
9.927	39.61	PK1	37	-23.9	0	52.71	-	-	-	-	68.2	-15.49	1	205	V
9.928	27.99	AD1	37	-23.9	.2	41.29	-	-	-	-	-	-	1	205	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

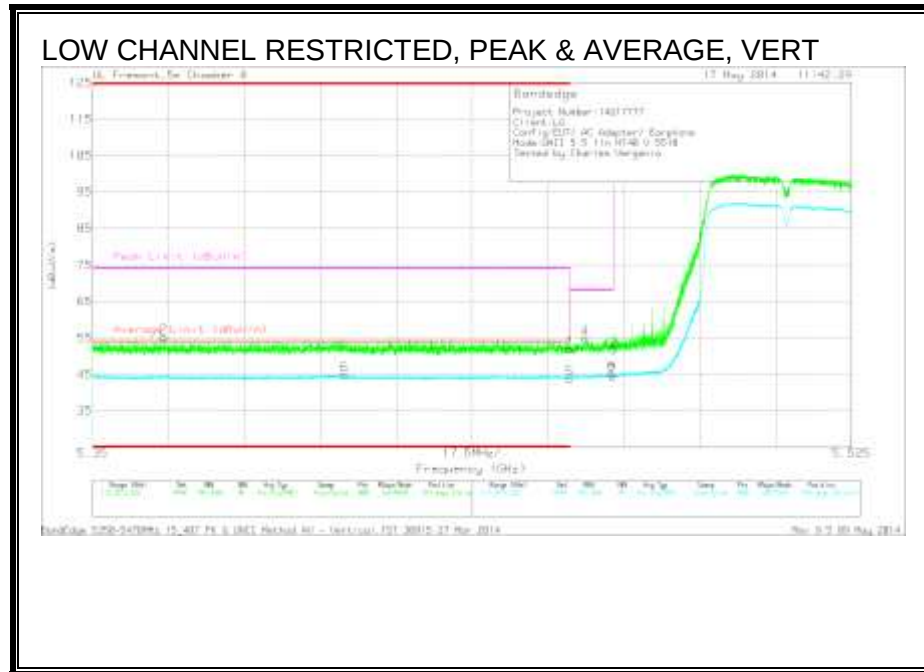


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.89	PK	34.5	-20.1	0	53.29	-	-	74	-20.71	104	199	H
2	* 5.406	41.24	PK	34.5	-20.1	0	55.64	-	-	74	-18.36	104	199	H
5	* 5.46	29.76	RMS	34.5	-20.1	.5	44.66	54	-9.34	-	-	104	199	H
6	* 5.408	30.42	RMS	34.5	-20.1	.5	45.32	54	-8.68	-	-	104	199	H
4	5.469	40.98	PK	34.5	-20	0	55.48	-	-	68.2	-12.72	104	199	H
8	5.469	30.18	RMS	34.5	-20	.5	45.18	-	-	-	-	104	199	H
3	5.47	39.25	PK	34.5	-20	0	53.75	-	-	68.2	-14.45	104	199	H
7	5.47	29.5	RMS	34.5	-20	.5	44.5	-	-	-	-	104	199	H

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

PK - Peak detector

RMS - RMS detection



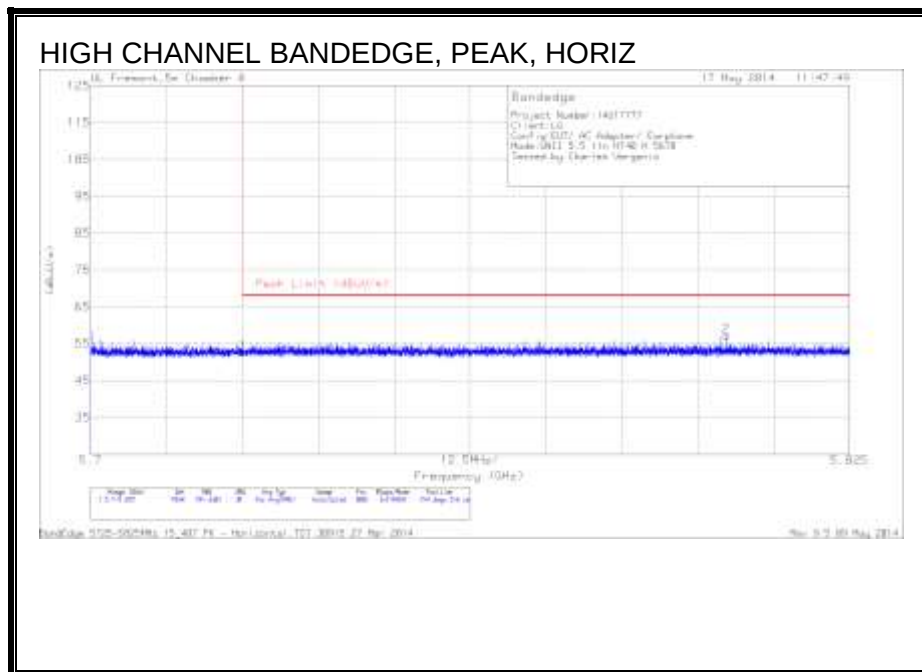
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.67	PK	34.5	-20.1	0	52.07	-	-	74	-21.93	154	316	V
2	* 5.366	40.72	PK	34.5	-19.9	0	55.32	-	-	74	-18.68	154	316	V
5	* 5.46	28.88	RMS	34.5	-20.1	.5	43.78	54	-10.22	-	-	154	316	V
6	* 5.408	30.05	RMS	34.5	-20.1	.5	44.95	54	-9.05	-	-	154	316	V
4	5.464	40.59	PK	34.5	-20.1	0	54.99	-	-	68.2	-13.21	154	316	V
3	5.47	37.32	PK	34.5	-20	0	51.82	-	-	68.2	-16.38	154	316	V
7	5.47	29.52	RMS	34.5	-20	.5	44.52	-	-	-	-	154	316	V
8	5.47	30.2	RMS	34.5	-20	.5	45.2	-	-	-	-	154	316	V

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

PK - Peak detector

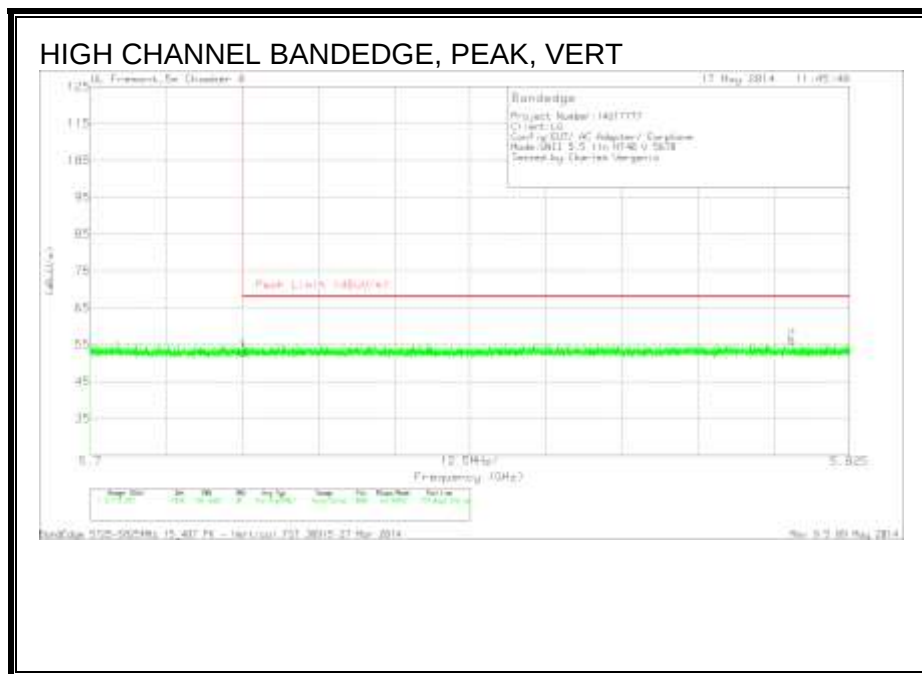
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.95	PK	34.6	-19.9	52.65	68.2	-15.55	154	316	H
2	5.805	42.11	PK	34.7	-19.7	57.11	68.2	-11.09	154	316	H

PK - Peak detector

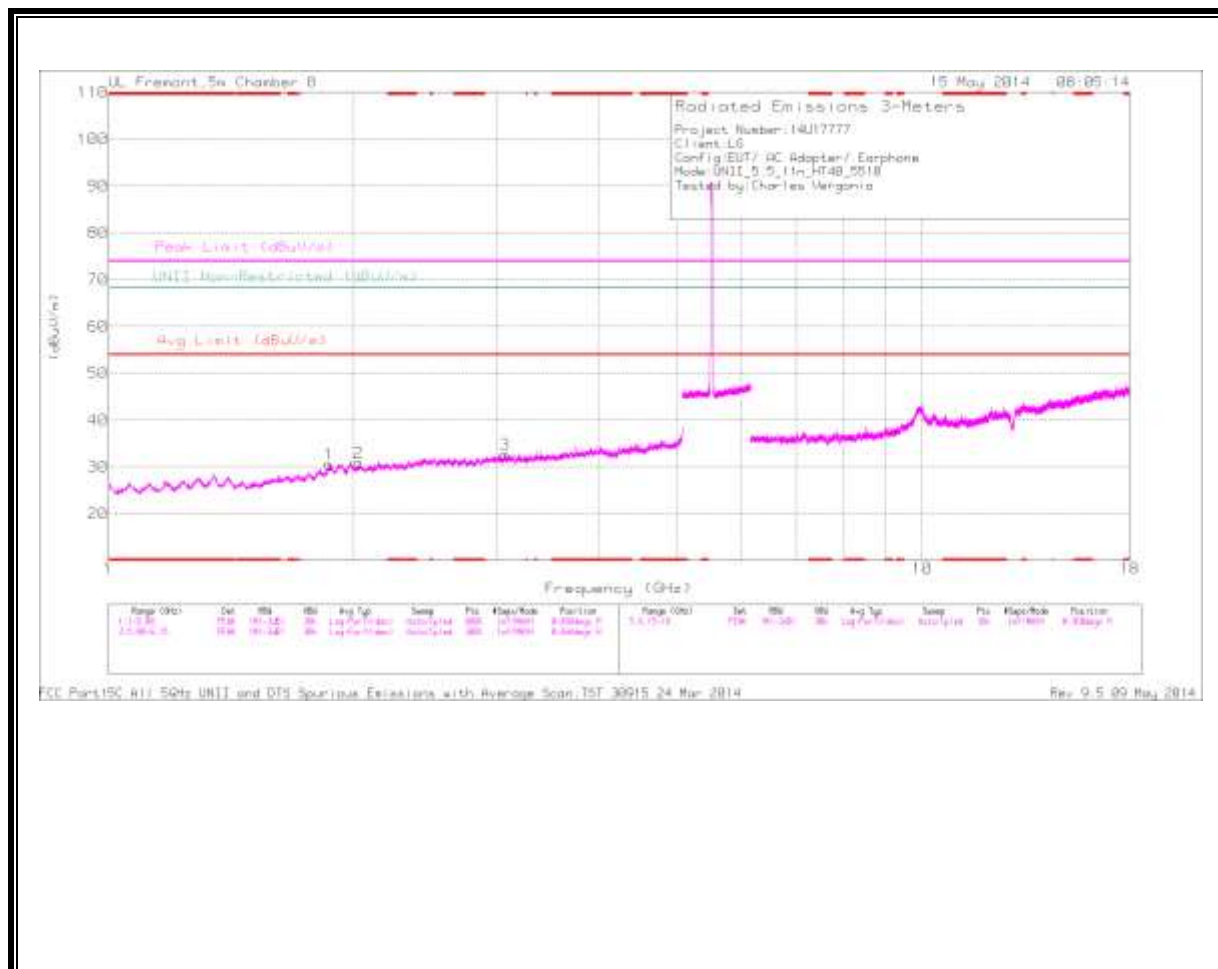


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	38.32	PK	34.6	-19.9	53.02	68.2	-15.18	154	316	V
2	5.815	41.19	PK	34.7	-19.9	55.99	68.2	-12.21	154	316	V

PK - Peak detector

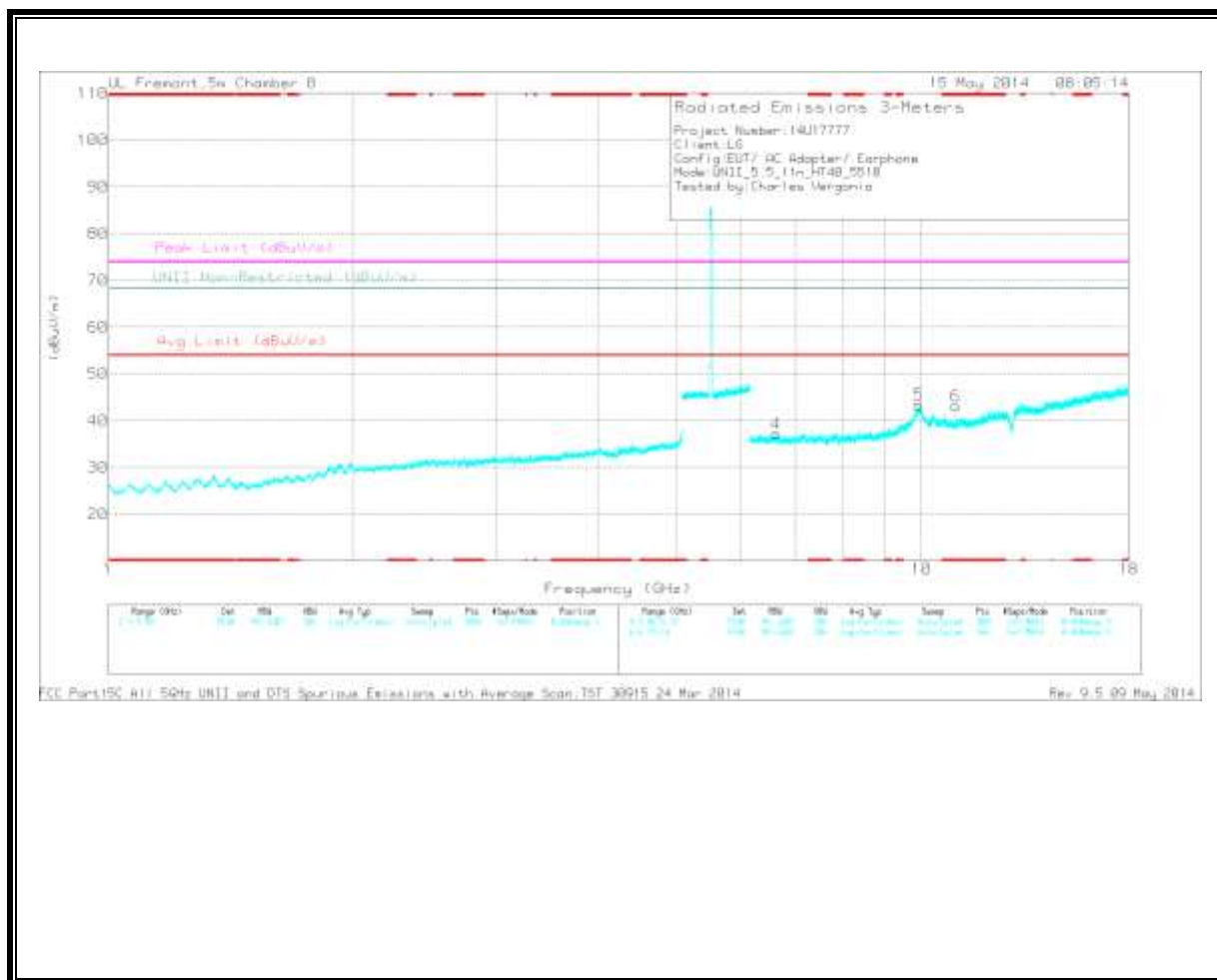
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/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
6	* 11.02	28.09	PK	37.8	-22.7	0	43.19	-	-	74	-30.81	-	-	0-360	99	V
1	1.865	33.08	PK	30.8	-33.3	0	30.58	-	-	-	-	68.2	-37.62	0-360	99	H
2	2.03	32.99	PK	31.3	-33.5	0	30.79	-	-	-	-	68.2	-37.41	0-360	99	H
3	3.071	31.99	PK	32.8	-32.1	0	32.69	-	-	-	-	68.2	-35.51	0-360	201	H
4	6.622	29.41	PK	35.7	-27.9	0	37.21	-	-	-	-	68.2	-30.99	0-360	99	V
5	9.933	30.27	PK	37	-23.9	0	43.37	-	-	-	-	68.2	-24.83	0-360	202	V

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

PK - Peak detector

Radiated Emissions

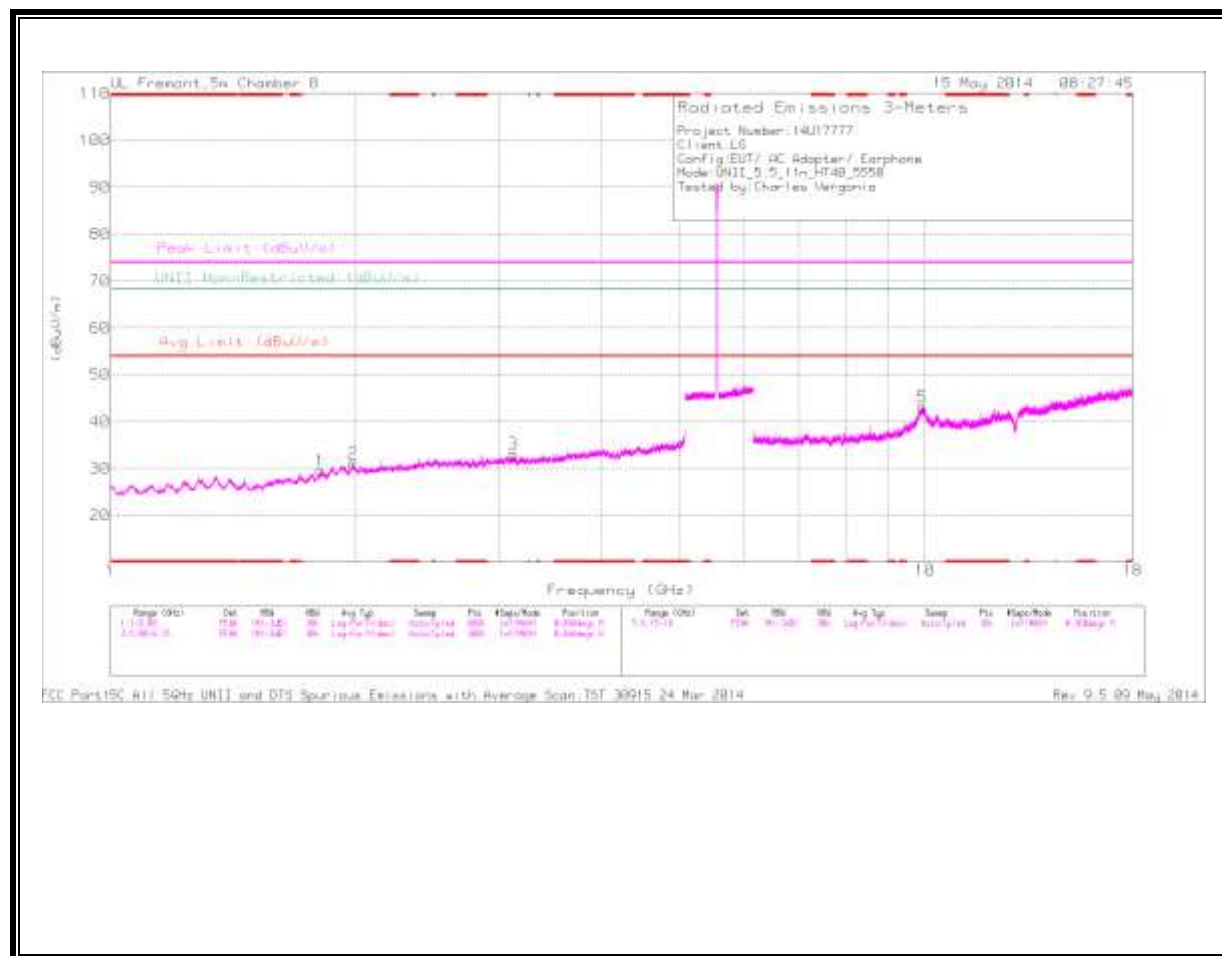
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.02	36.64	PK1	37.8	-22.7	0	51.74	-	-	74	-22.26	-	-	30	214	V
* 11.02	27.45	AD1	37.8	-22.7	.5	43.05	54	-10.95	-	-	-	-	30	214	V
9.932	39.64	PK1	37	-23.9	0	52.74	-	-	-	-	68.2	-15.46	1	204	V
9.932	27.6	AD1	37	-23.9	.5	41.2	-	-	-	-	-	-	1	204	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 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.1	29.25	PK	37.8	-22.9	0	44.15	-	-	74	-29.85	-	-	0-360	202	V
1	1.811	33.1	PK	30.3	-33.9	0	29.5	-	-	-	-	68.2	-38.7	0-360	99	H
2	1.985	32.66	PK	31.3	-32.9	0	31.06	-	-	-	-	68.2	-37.14	0-360	202	H
3	3.125	32.14	PK	32.8	-31.8	0	33.14	-	-	-	-	68.2	-35.06	0-360	99	H
4	3.289	31.77	PK	32.8	-31.7	0	32.87	-	-	-	-	68.2	-35.33	0-360	99	V
5	9.932	30.02	PK	37	-23.9	0	43.12	-	-	-	-	68.2	-25.08	0-360	202	H

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

PK - Peak detector

Radiated Emissions

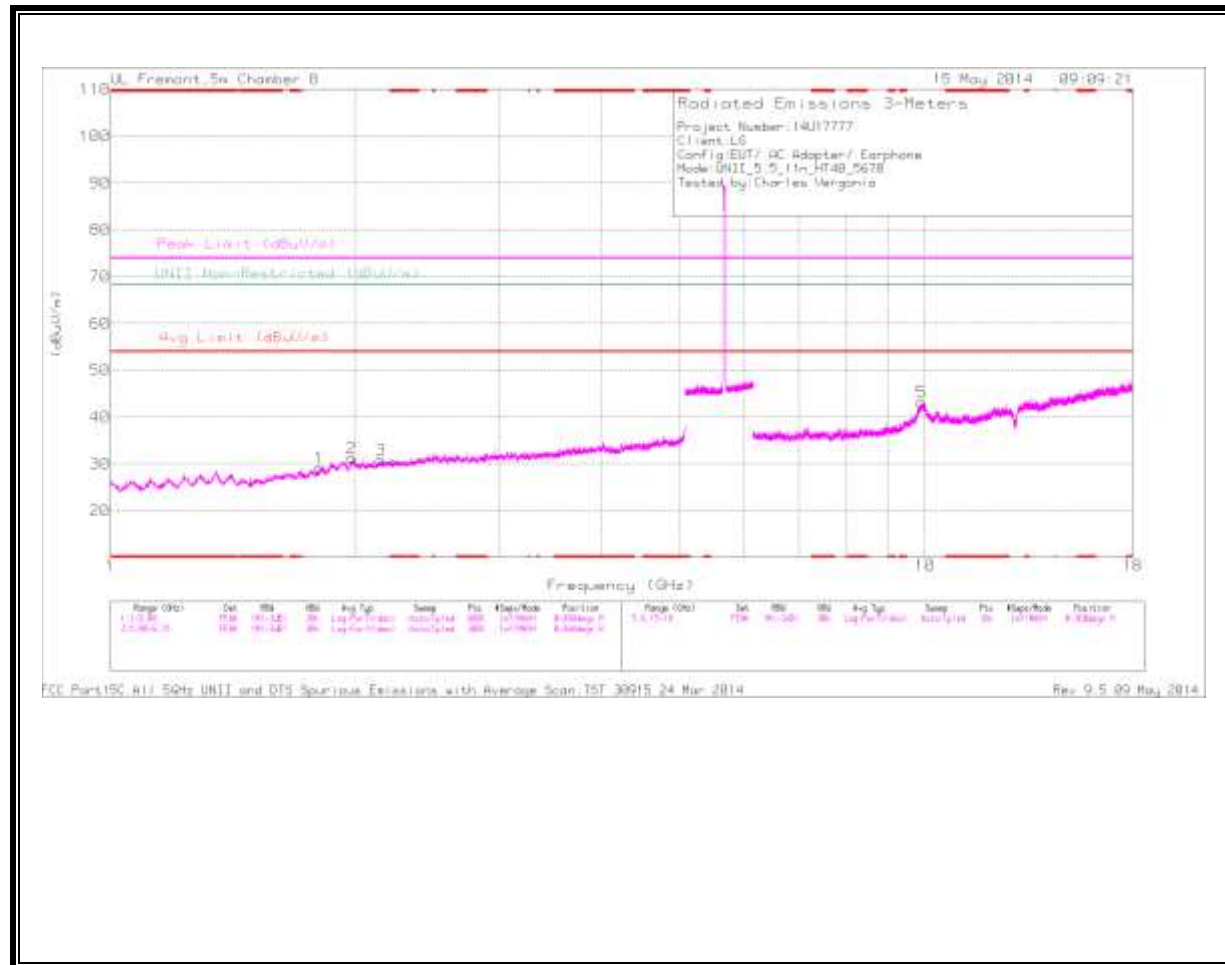
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.1	37.81	PK1	37.8	-22.9	0	52.71	-	-	74	-21.29	-	-	25	214	V
* 11.1	30.37	AD1	37.8	-22.9	.5	45.77	54	-8.23	-	-	-	-	25	214	V
9.93	27.99	AD1	37	-23.9	.5	41.59	-	-	-	-	-	-	1	204	H
9.931	39.54	PK1	37	-23.9	0	52.64	-	-	-	-	68.2	-15.56	1	204	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 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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
6	* 11.339	28.14	PK	38	-22.5	0	43.64	-	-	74	-30.36	-	-	0-360	99	V
1	1.803	32.97	PK	30.2	-34	0	29.17	-	-	-	-	68.2	-39.03	0-360	202	H
2	1.98	32.67	PK	31.3	-32.8	0	31.17	-	-	-	-	68.2	-37.03	0-360	202	H
3	2.144	32.42	PK	31.3	-32.9	0	30.82	-	-	-	-	68.2	-37.38	0-360	202	H
4	3.016	32.13	PK	32.8	-32	0	32.93	-	-	-	-	68.2	-35.27	0-360	99	V
5	9.907	30.24	PK	37	-24.1	0	43.14	-	-	-	-	68.2	-25.06	0-360	99	H

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

PK - Peak detector

Radiated Emissions

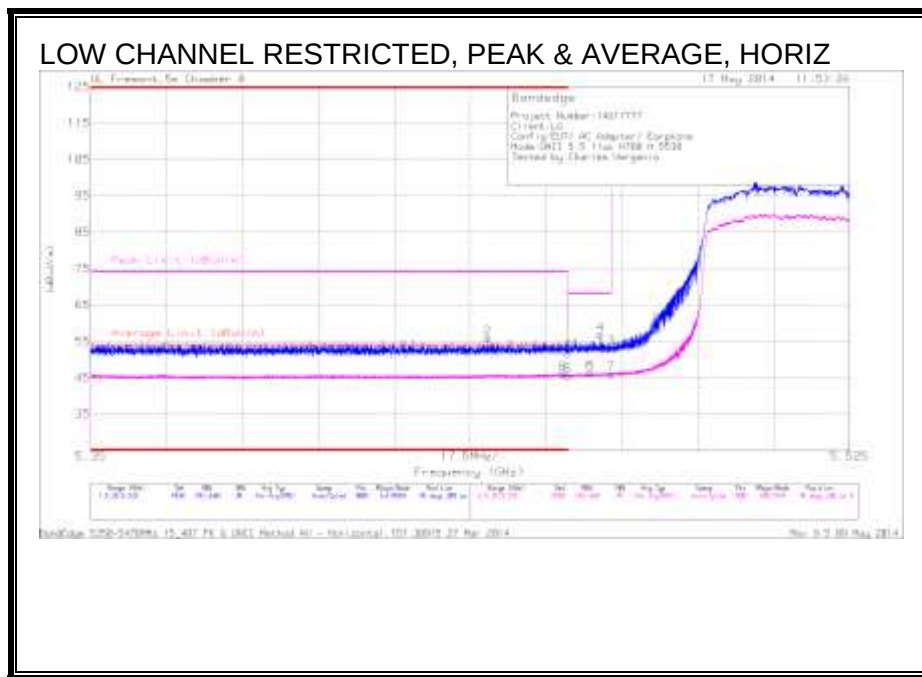
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.34	37.03	PK1	38	-22.5	0	52.53	-	-	74	-21.47	-	-	244	100	V
* 11.34	27.67	AD1	38	-22.5	.5	43.67	54	-10.33	-	-	-	-	244	100	V
9.905	28	AD1	37	-24.1	.5	41.4	-	-	-	-	-	-	1	100	H
9.906	39.63	PK1	37	-24.1	0	52.53	-	-	-	-	68.2	-15.67	1	100	H

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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

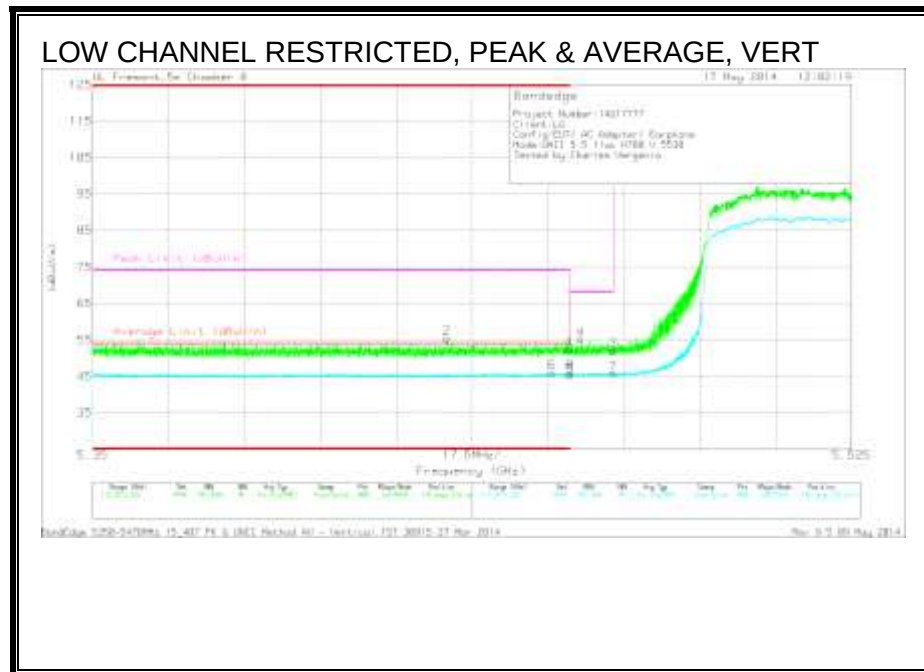


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.33	PK	34.5	-20.1	0	51.73	-	-	74	-22.27	95	200	H
2	* 5.442	41.41	PK	34.5	-20	0	55.91	-	-	74	-18.09	95	200	H
5	* 5.46	29.58	RMS	34.5	-20.1	1.5	45.48	54	-8.52	-	-	95	200	H
6	* 5.459	30.33	RMS	34.5	-20.1	1.5	46.23	54	-7.77	-	-	95	200	H
8	5.465	30.55	RMS	34.5	-20.1	1.5	46.45	-	-	-	-	95	200	H
4	5.467	42.46	PK	34.5	-20.1	0	56.86	-	-	68.2	-11.34	95	200	H
3	5.47	38.62	PK	34.5	-20	0	53.12	-	-	68.2	-15.08	95	200	H
7	5.47	30.07	RMS	34.5	-20	1.5	46.07	-	-	-	-	95	200	H

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

PK - Peak detector

RMS - RMS detection

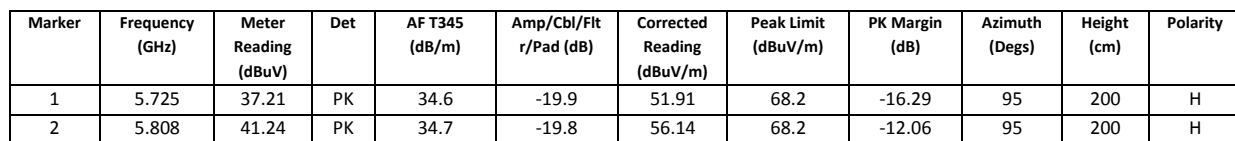


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	37.96	PK	34.5	-20.1	0	52.36	-	-	74	-21.64	136	216	V
2	* 5.432	41.1	PK	34.5	-20.1	0	55.5	-	-	74	-18.5	136	216	V
5	* 5.46	29.42	RMS	34.5	-20.1	1.5	45.32	54	-8.68	-	-	136	216	V
6	* 5.456	30.11	RMS	34.5	-20.1	1.5	46.01	54	-7.99	-	-	136	216	V
8	5.46	30.2	RMS	34.5	-20.1	1.5	46.1	-	-	-	-	136	216	V
4	5.463	40.78	PK	34.5	-20.1	0	55.18	-	-	68.2	-13.02	136	216	V
3	5.47	37.49	PK	34.5	-20	0	51.99	-	-	68.2	-16.21	136	216	V
7	5.47	29.77	RMS	34.5	-20	1.5	45.77	-	-	-	-	136	216	V

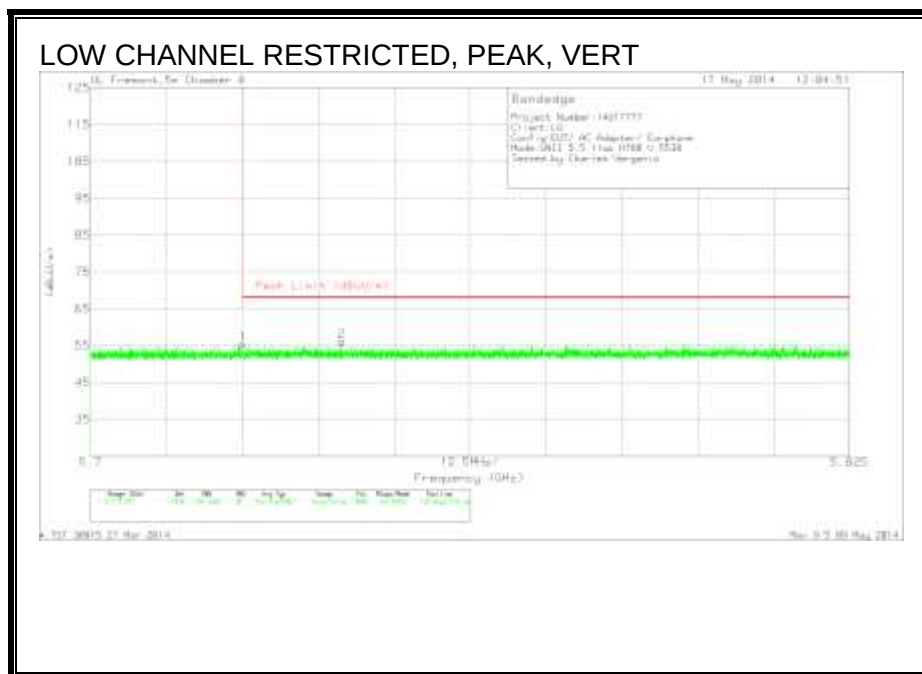
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection



PK - Peak detector

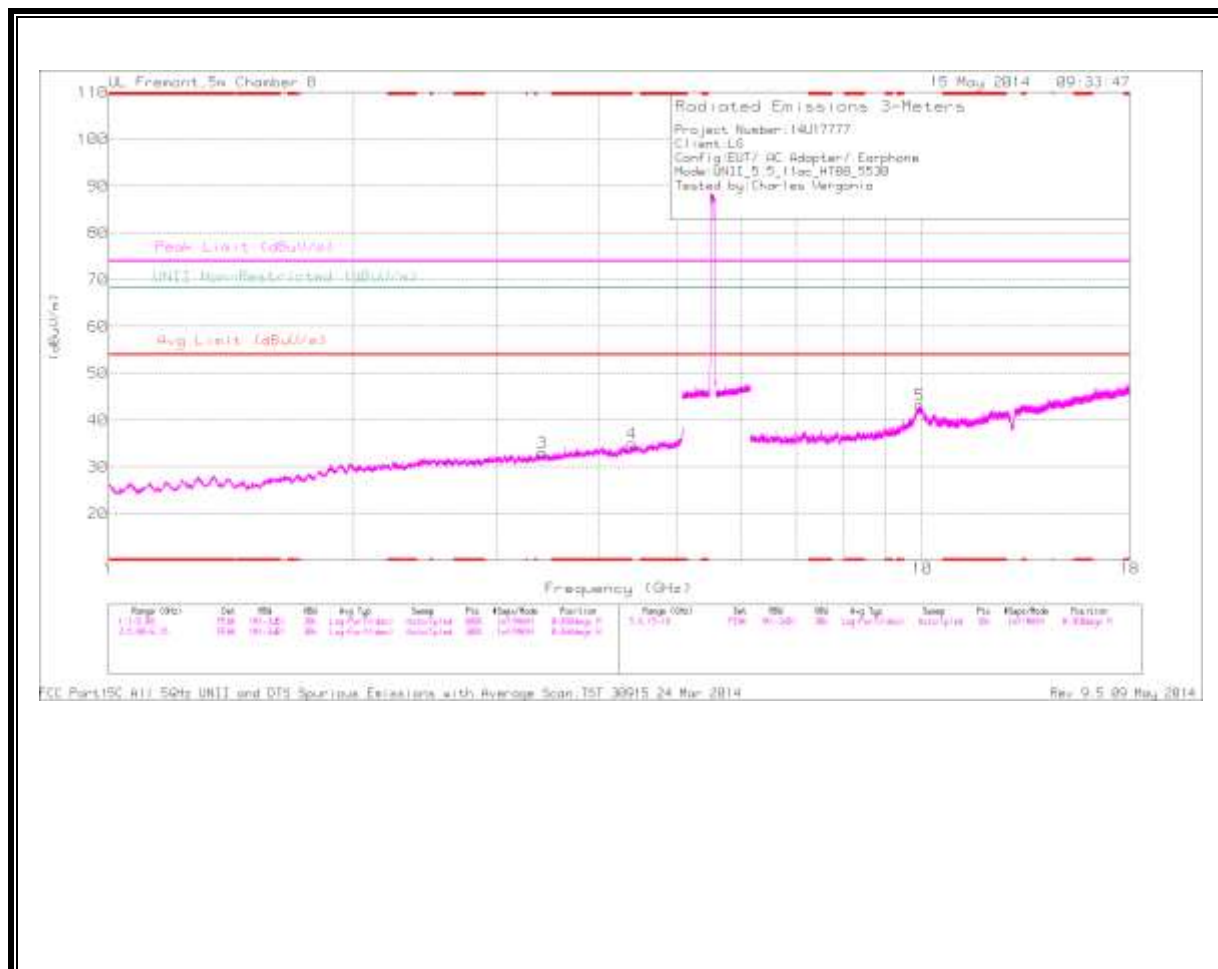


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.71	PK	34.6	-19.9	55.41	68.2	-12.79	136	216	V
2	5.741	41.39	PK	34.6	-19.8	56.19	68.2	-12.01	136	216	V

PK - Peak detector

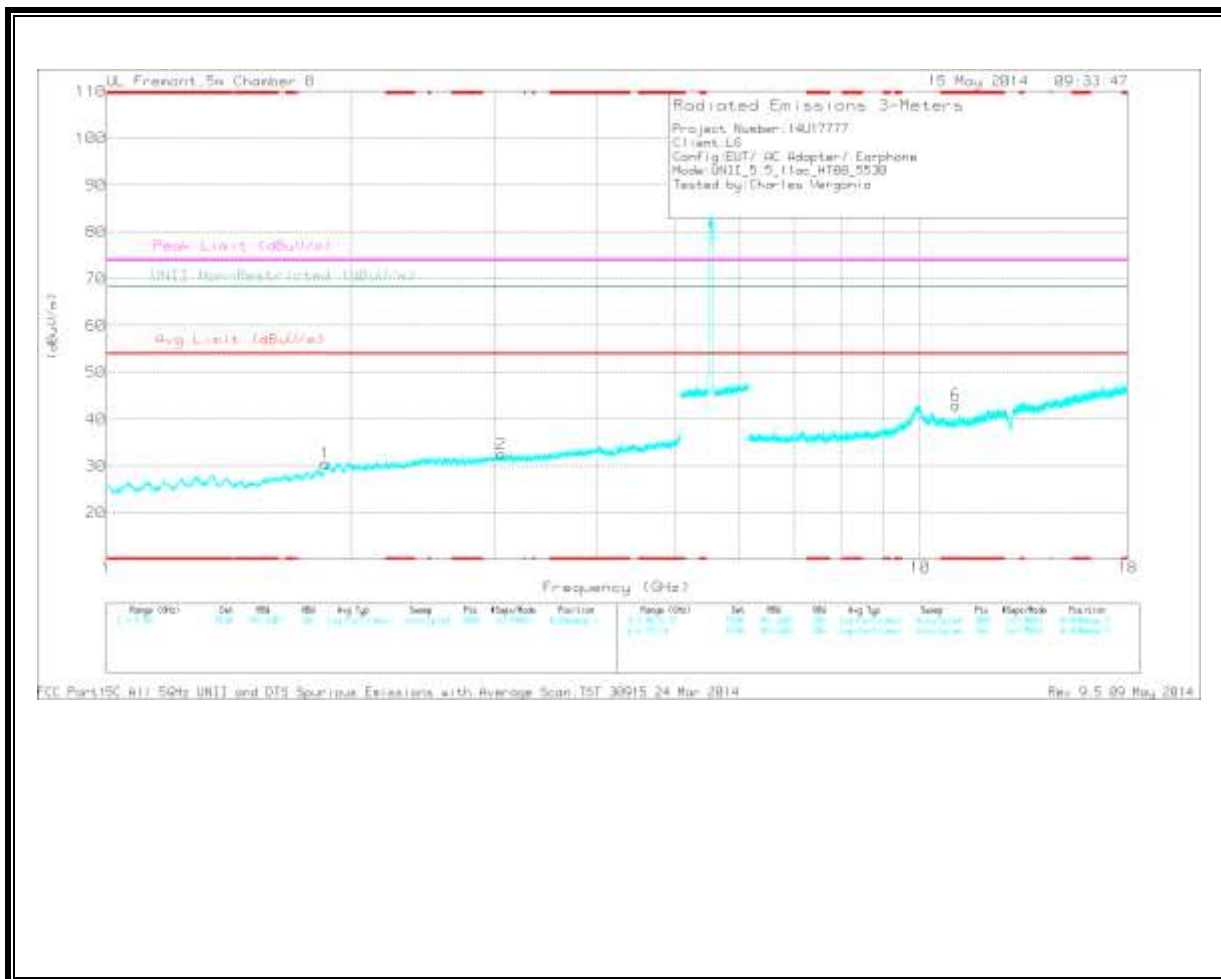
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/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
6	* 11.06	27.83	PK	37.8	-22.6	0	43.03	-	-	74	-30.97	-	-	0-360	99	V
1	1.857	33.27	PK	30.7	-33.4	0	30.57	-	-	-	-	68.2	-37.63	0-360	202	V
2	3.058	31.87	PK	32.8	-32.2	0	32.47	-	-	-	-	68.2	-35.73	0-360	99	V
3	3.413	31.61	PK	32.8	-31.4	0	33.01	-	-	-	-	68.2	-35.19	0-360	202	H
4	4.401	31.55	PK	33.8	-30.4	0	34.95	-	-	-	-	68.2	-33.25	0-360	99	H
5	9.931	30.08	PK	37	-23.9	0	43.18	-	-	-	-	68.2	-25.02	0-360	99	H

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

PK - Peak detector

Radiated Emissions

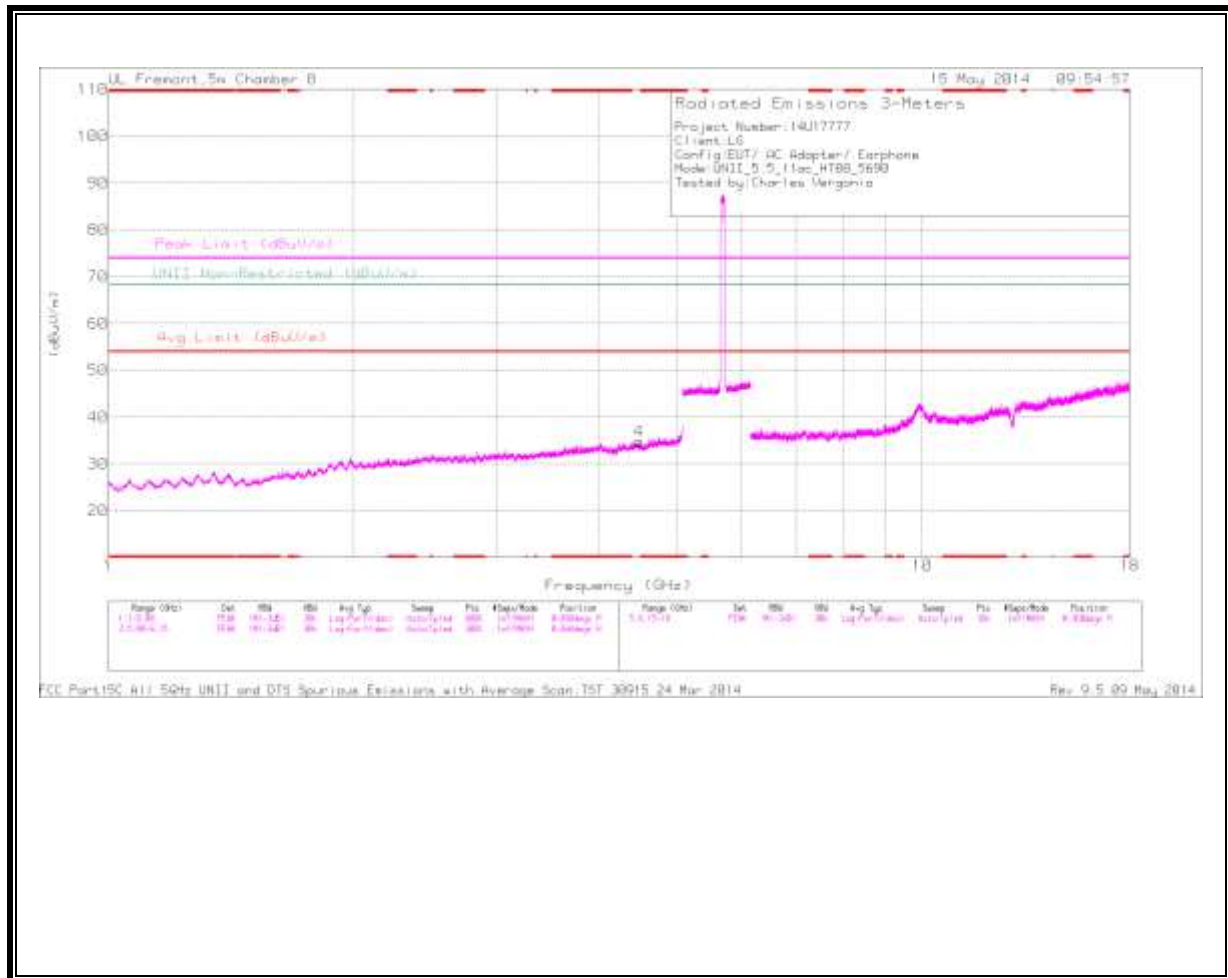
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.06	37.13	PK1	37.8	-22.6	0	52.33	-	-	74	-21.67	-	-	23	214	V
* 11.06	28.79	AD1	37.8	-22.6	1.5	45.49	54	-8.51	-	-	-	-	23	214	V
9.93	27.79	AD1	37	-23.9	1.5	42.39	-	-	-	-	-	-	359	100	H
9.933	38.89	PK1	37	-23.9	0	51.99	-	-	-	-	68.2	-16.21	359	100	H

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

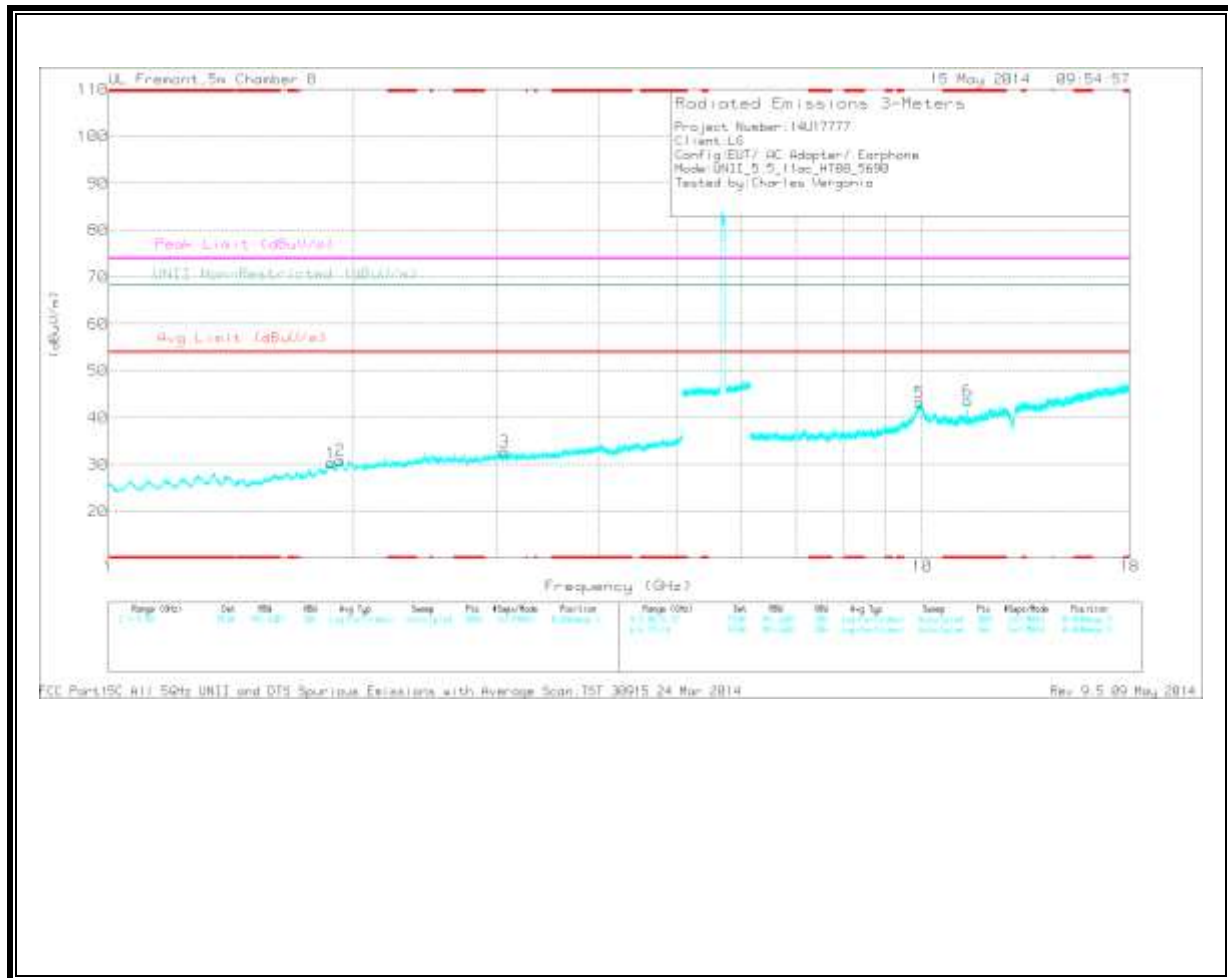
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL
HORIZONTAL



VERTICAL



HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.38	27.93	PK	38	-22.4	0	43.53	-	-	74	-30.47	-	-	0-360	99	V
1	1.875	32.61	PK	30.8	-33.1	0	30.31	-	-	-	-	68.2	-37.89	0-360	99	V
2	1.925	32.7	PK	31.1	-32.9	0	30.9	-	-	-	-	68.2	-37.3	0-360	99	V
3	3.066	32.16	PK	32.8	-32.2	0	32.76	-	-	-	-	68.2	-35.44	0-360	99	V
4	4.489	30.73	PK	34	-29.9	0	34.83	-	-	-	-	68.2	-33.37	0-360	99	H
5	9.923	30.25	PK	37	-24	0	43.25	-	-	-	-	68.2	-24.95	0-360	99	V

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

PK - Peak detector

Radiated Emissions

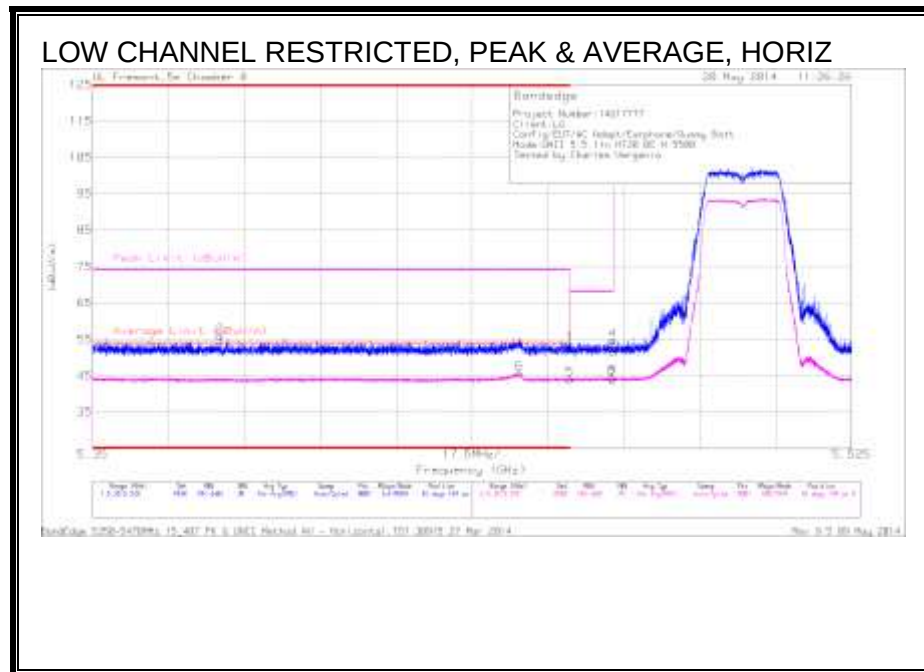
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.38	37.82	PK1	38	-22.5	0	53.32	-	-	74	-20.68	-	-	56	270	V
* 11.38	30.74	AD1	38	-22.4	1.5	47.84	54	-6.16	-	-	-	-	56	270	V
9.921	27.84	AD1	37	-24	1.5	42.34	-	-	-	-	-	-	1	100	V
9.922	39.22	PK1	37	-24	0	52.22	-	-	-	-	68.2	-15.98	1	100	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH SMART COVER
RESTRICTED BANDEDGE WITH WPC CHARGER AND COVER (LOW CHANNEL)

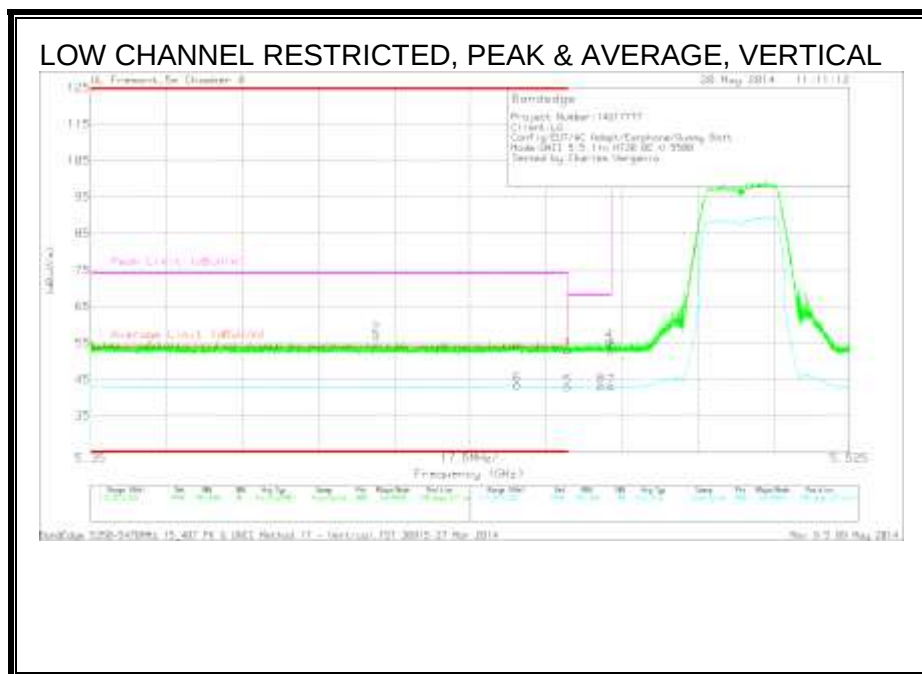


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.52	PK	34.5	-20.1	0	53.92	-	-	74	-20.08	42	194	H
2	* 5.379	41.42	PK	34.5	-20	0	55.92	-	-	74	-18.08	42	194	H
5	* 5.46	29.43	RMS	34.5	-20.1	.2	44.03	54	-9.97	-	-	42	194	H
6	* 5.448	31.13	RMS	34.5	-20.1	.2	45.73	54	-8.27	-	-	42	194	H
3	5.47	37.15	PK	34.5	-20	0	51.65	-	-	68.2	-16.55	42	194	H
4	5.47	40.18	PK	34.5	-20	0	54.68	-	-	68.2	-13.52	42	194	H
7	5.47	29.23	RMS	34.5	-20	.2	43.93	-	-	-	-	42	194	H
8	5.47	29.94	RMS	34.5	-20	.2	44.64	-	-	-	-	42	194	H

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

PK - Peak detector

RMS - RMS detection



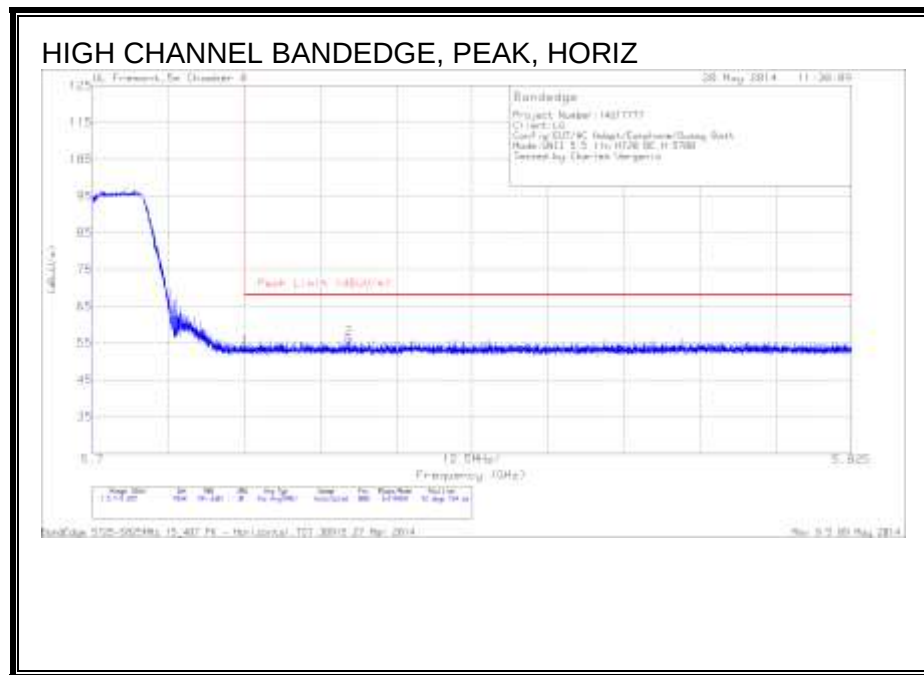
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.59	PK	34.5	-20.1	0	52.99	-	-	74	-21.01	190	217	V
2	* 5.416	42.82	PK	34.5	-20.1	0	57.22	-	-	74	-16.78	190	217	V
5	* 5.46	28.35	RMS	34.5	-20.1	.2	42.95	54	-11.05	-	-	190	217	V
6	* 5.448	28.92	RMS	34.5	-20.1	.2	43.52	54	-10.48	-	-	190	217	V
8	5.468	28.55	RMS	34.5	-20.1	.2	43.15	-	-	-	-	190	217	V
3	5.47	38.44	PK	34.5	-20	0	52.94	-	-	68.2	-15.26	190	217	V
4	5.47	40.89	PK	34.5	-20	0	55.39	-	-	68.2	-12.81	190	217	V
7	5.47	28.34	RMS	34.5	-20	.2	43.04	-	-	-	-	190	217	V

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

PK - Peak detector

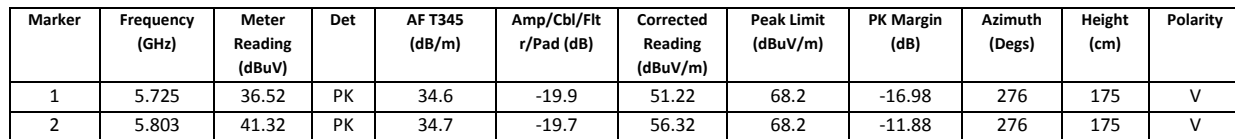
RMS - RMS detection

(HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (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	39.14	PK	34.6	-19.9	53.84	68.2	-14.36	42	194	H
2	5.742	41.47	PK	34.6	-19.8	56.27	68.2	-11.93	42	194	H

PK - Peak detector



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UL Front-End, 5m Chamber: B

28 May 2014 09:31:59

Radiated Emissions 3-Meters

Project Number: 14017777

Client: LG

Config: EU724C Adopt/Earphone/Battery Bott

Mode: UNII S.S 17m H20 HARM 55dB

Tested by: Charles Vergara

Peak Limit (dBuV/m)

UNII Floor/Battery Locked (dBuV/m)

Avg Limit (dBuV/m)

1 2

Frequency (GHz)

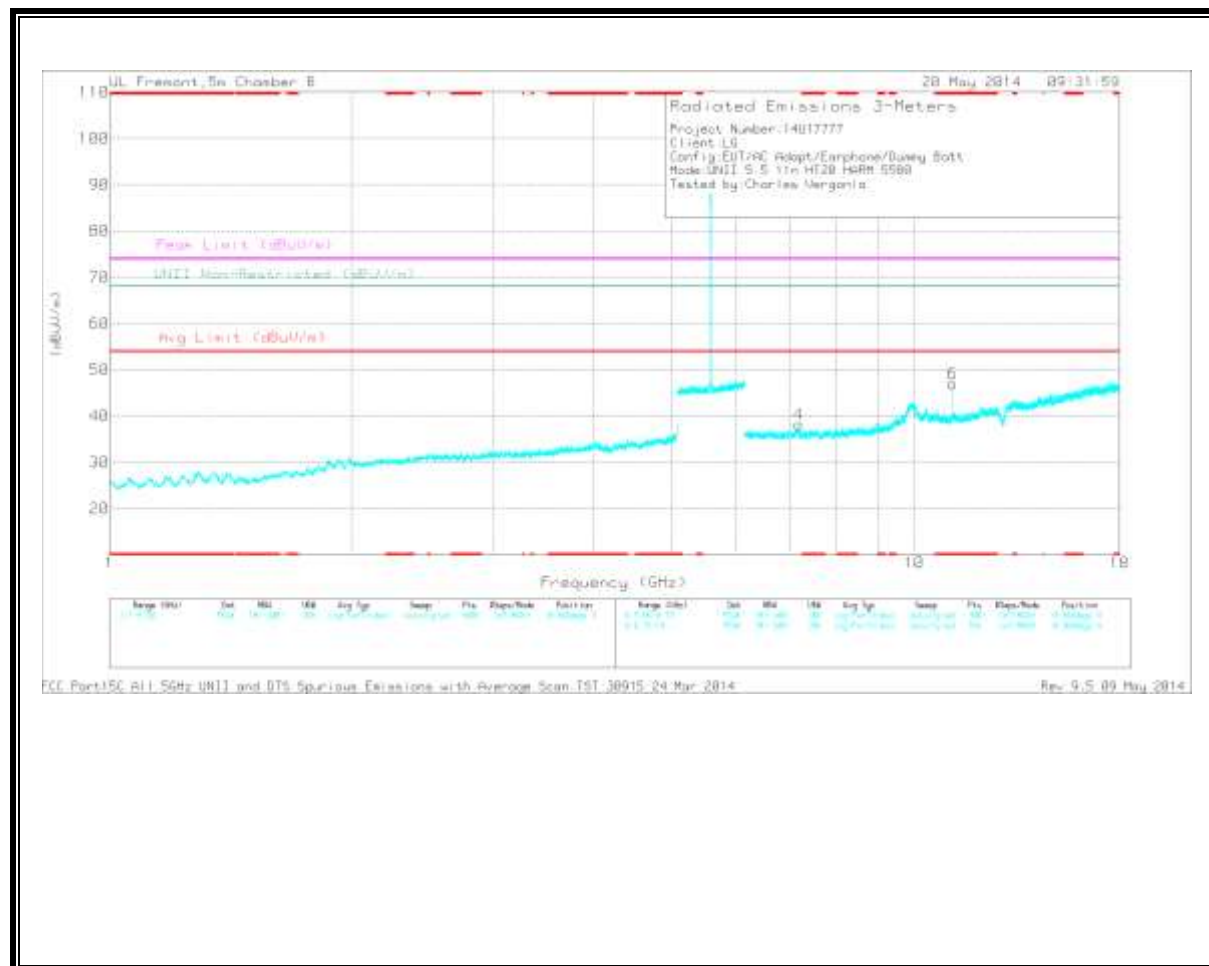
Range (GHz)	Set	RF	RB	Log Type	Swing	Flt	Flags/Mode	Footnote
1.1-1.35	75.0	100	100	Log Power	Auto/Signal	000	Set 75dB	0-100dB
1.35-1.75	75.0	100	100	Log Power	Auto/Signal	000	Set 75dB	0-100dB

Range (GHz)	Set	RF	RB	Log Type	Swing	Flt	Flags/Mode	Footnote
1.35-1.75	75.0	100	100	Log Power	Auto/Signal	000	Set 75dB	0-100dB

FCC Part 15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST.38915-24 Mar. 2014

Rev. 9.5.09 May 2014

VERTICAL



CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.16	31.3	PK	37.9	-22.2	0	47	-	-	74	-27	-	-	0-360	202	V
1	1.825	33.37	PK	30.4	-33.8	0	29.97	-	-	-	-	68.2	-38.23	0-360	202	H
2	2.036	32.9	PK	31.3	-33.6	0	30.6	-	-	-	-	68.2	-37.6	0-360	202	H
3	3.138	31.81	PK	32.8	-31.6	0	33.01	-	-	-	-	68.2	-35.19	0-360	202	H
4	7.184	29.13	PK	35.6	-26.5	0	38.23	-	-	-	-	68.2	-29.97	0-360	99	V
5	9.907	31.02	PK	37	-24.1	0	43.92	-	-	-	-	68.2	-24.28	0-360	202	H

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

PK - Peak detector

Radiated Emissions

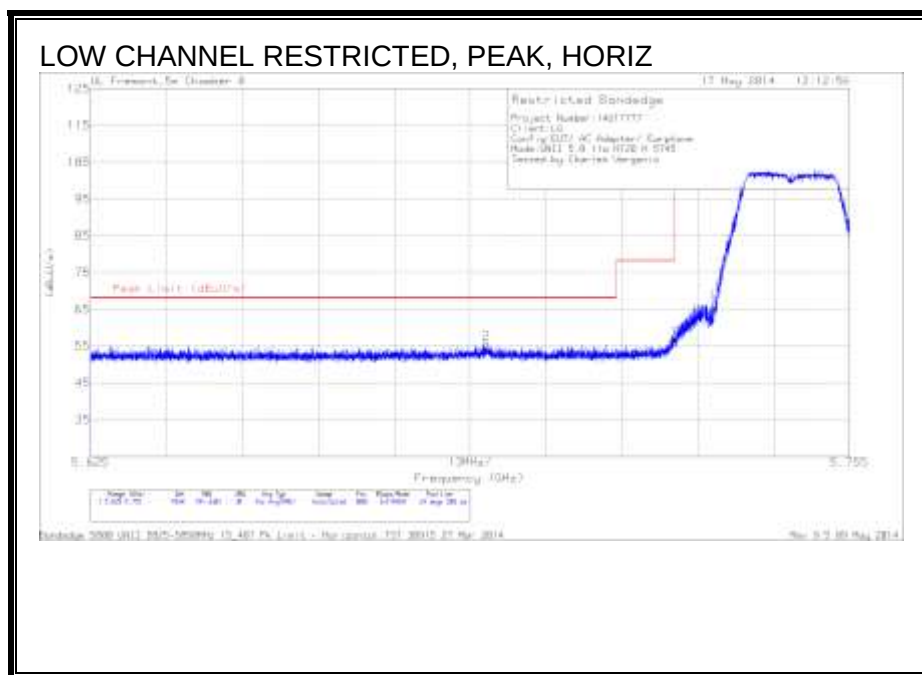
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.16	37.11	PK2	37.9	-22.2	0	52.81	-	-	74	-21.19	-	-	151	214	V
* 11.16	29.11	MAv1	37.9	-22.2	.2	45.01	54	-8.99	-	-	-	-	151	214	V
9.905	39.12	PK2	37	-24.1	0	52.02	-	-	-	-	68.2	-16.18	359	204	H
9.906	27.96	MAv1	37	-24.1	.2	41.06	-	-	-	-	-	-	359	204	H

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

PK2 - KDB558074 Method: Maximum Peak

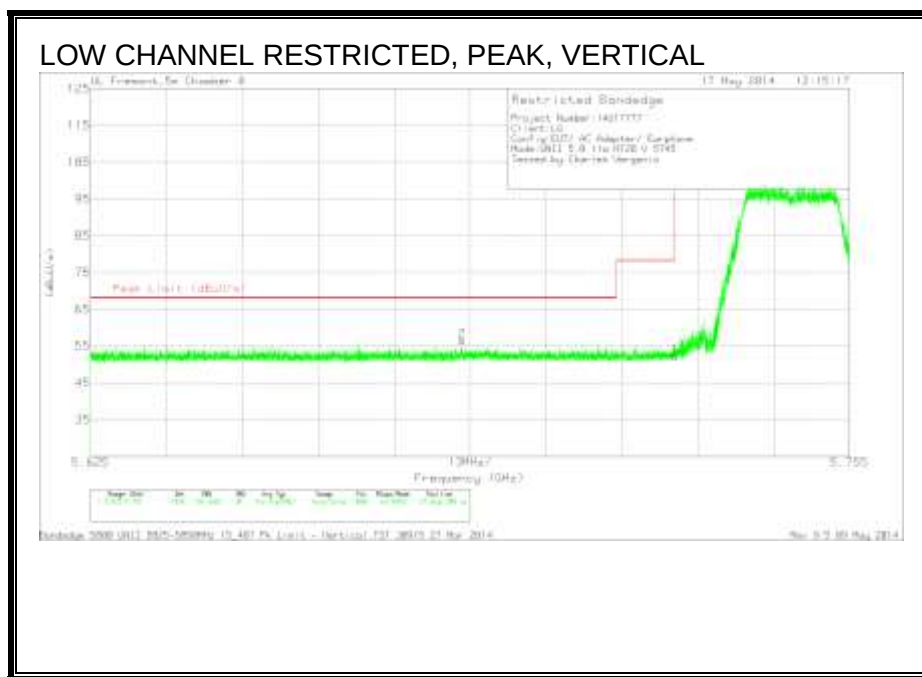
10.4. 5.8 GHz

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



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AFT345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBUV/m)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.693	41.27	PK	34.5	-20	55.77	68.2	-12.43	24	200	H
1	5.725	42.29	PK	34.6	-19.9	56.99	78.2	-21.21	24	200	H

PK - Peak detector



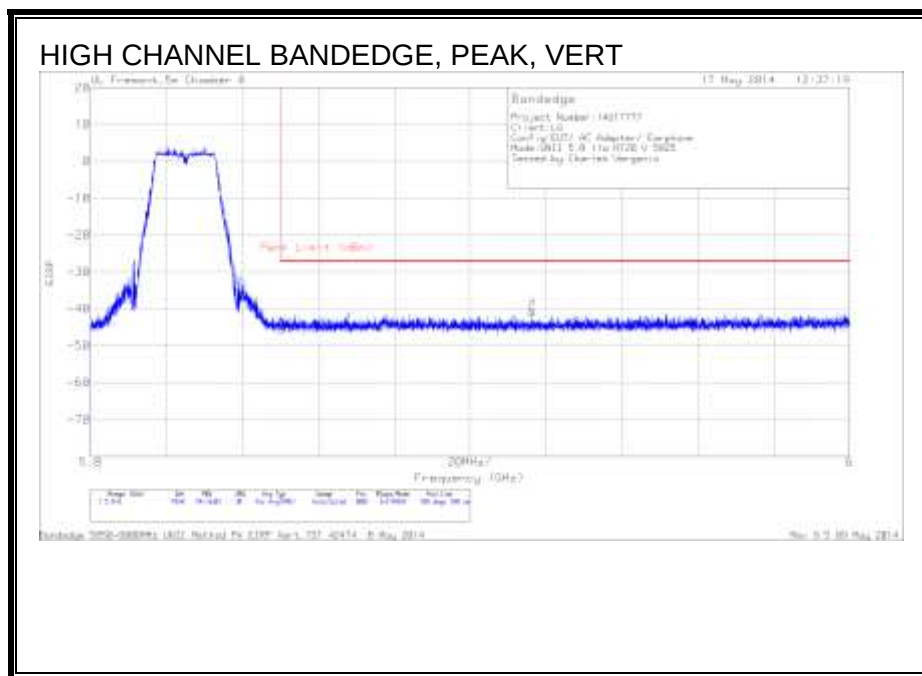
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.689	41.97	PK	34.5	-20	56.47	68.2	-11.73	24	200	V
1	5.725	37.56	PK	34.6	-19.9	52.26	78.2	-25.94	24	200	V

PK - Peak detector

[illegible]

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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	-71.05	PK	34.8	-19.8	11.8	-44.25	-27	-17.25	24	100	H
2	5.885	-67.59	PK	34.9	-19.5	11.8	-40.39	-27	-13.39	24	100	H

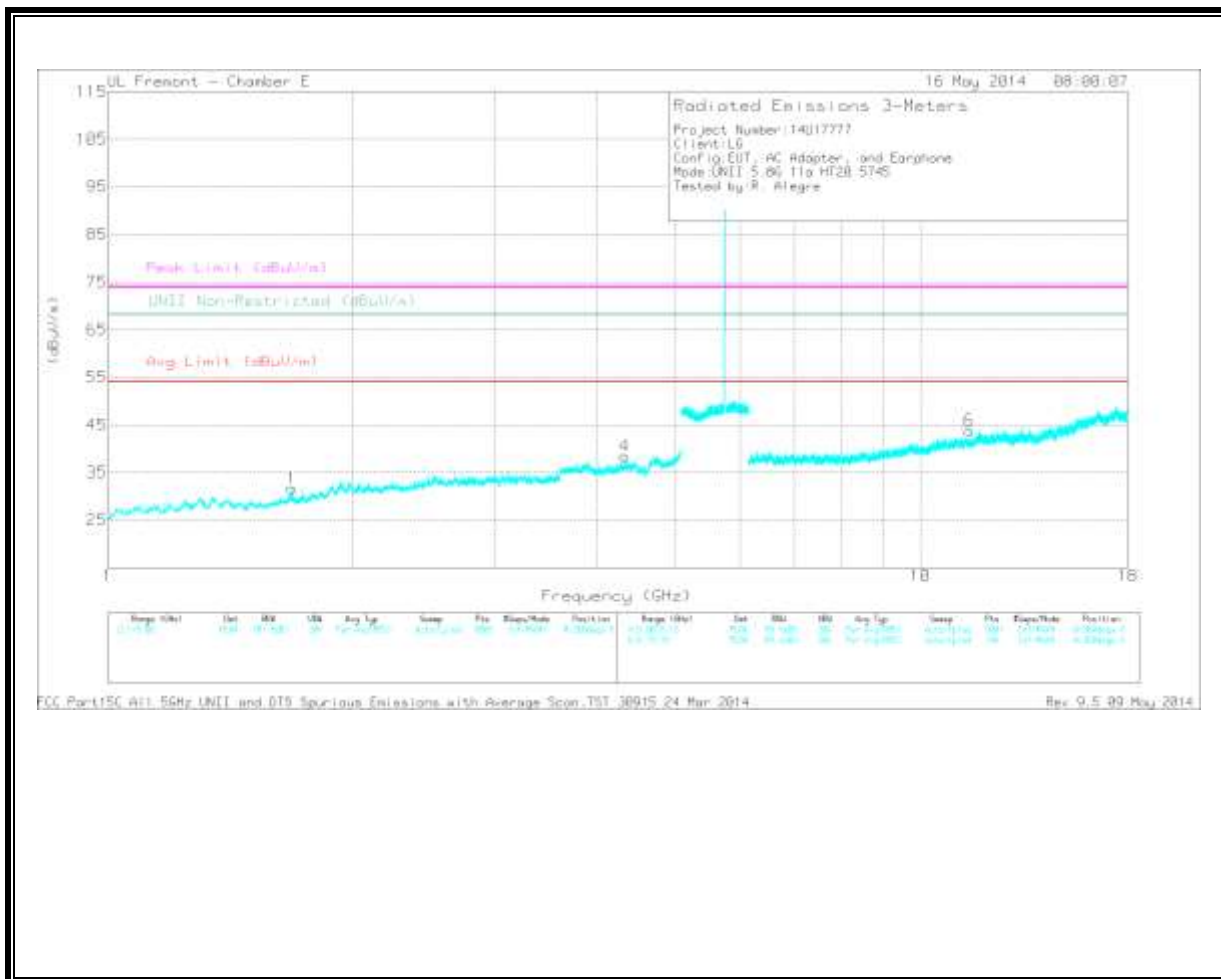
Page 156 of 216



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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	-72.35	PK	34.8	-19.8	11.8	-45.55	-27	-18.55	106	100	V
2	5.916	-68.12	PK	35	-19.5	11.8	-40.82	-27	-13.82	106	100	V

PK - Peak detector

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.345	35.37	PK	28.9	-33.9	0	30.37	-	-	74	-43.63	-	-	0-360	200	H
3	* 2.255	34.43	PK	31.4	-32.5	0	33.33	-	-	74	-40.67	-	-	0-360	200	H
5	* 4.698	35.23	PK	34.2	-29.9	0	39.53	-	-	74	-34.47	-	-	0-360	200	H
1	* 1.686	36.07	PK	29	-33.4	0	31.67	-	-	74	-42.33	-	-	0-360	200	V
4	* 4.325	35.3	PK	33.6	-30.4	0	38.5	-	-	74	-35.5	-	-	0-360	200	V
6	* 11.489	30.23	PK	38.2	-24.6	0	43.83	-	-	74	-30.17	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

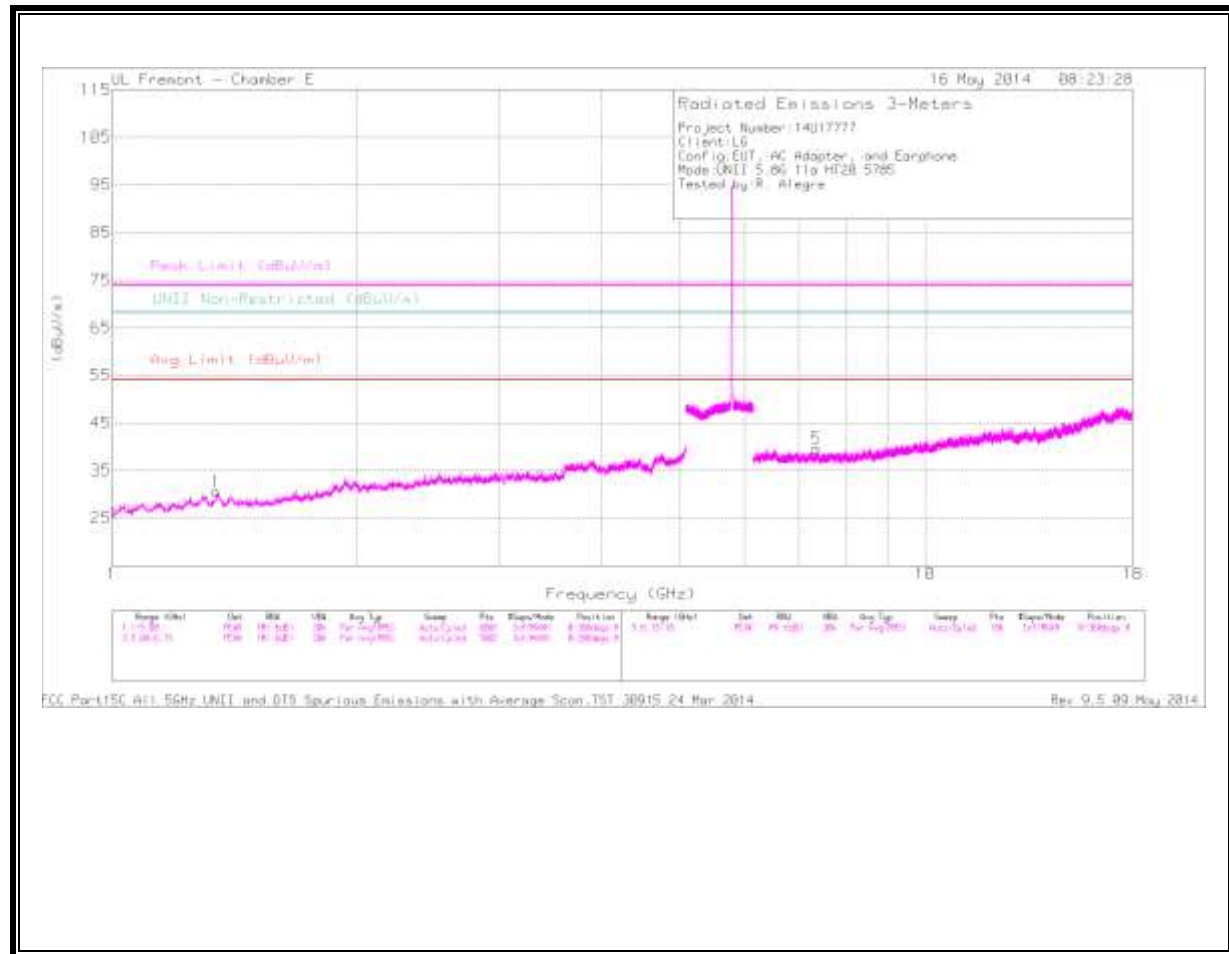
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.699	41.27	PK1	34.2	-29.9	0	45.57	-	-	74	-28.43	-	-	360	200	H
* 2.256	42.16	PK1	31.4	-32.5	0	41.06	-	-	74	-32.94	-	-	360	200	H
* 1.346	43.07	PK1	28.9	-33.9	0	38.07	-	-	74	-35.93	-	-	360	200	H
* 4.325	41.53	PK1	33.6	-30.4	0	44.73	-	-	74	-29.27	-	-	360	200	V
* 1.686	43.44	PK1	29	-33.4	0	39.04	-	-	74	-34.96	-	-	360	200	V
* 11.49	37.21	PK1	38.2	-24.6	0	50.81	-	-	74	-23.19	-	-	360	101	V
* 11.49	26.28	AD1	38.2	-24.6	.2	40.08	54	-13.92	-	-	-	-	360	101	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 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.345	35.5	PK	28.9	-33.9	0	30.5	-	-	74	-43.5	-	-	0-360	101	H
2	* 1.35	35.89	PK	28.9	-33.9	0	30.89	-	-	74	-43.11	-	-	0-360	101	V
3	* 1.539	36.28	PK	28.4	-34.5	0	30.18	-	-	74	-43.82	-	-	0-360	101	V
4	* 3.675	35.73	PK	33.3	-31.1	0	37.93	-	-	74	-36.07	-	-	0-360	101	V
5	* 7.352	31.32	PK	35.7	-27.4	0	39.62	-	-	74	-34.38	-	-	0-360	101	H
6	* 11.57	30.25	PK	38.2	-24.6	0	43.85	-	-	74	-30.15	-	-	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 T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.346	43.57	PK1	28.9	-33.9	0	38.57	-	-	74	-35.43	-	-	360	101	H
* 3.675	41.53	PK1	33.3	-31.2	0	43.63	-	-	74	-30.37	-	-	360	101	V
* 1.538	43.82	PK1	28.4	-34.5	0	37.72	-	-	74	-36.28	-	-	360	101	V
* 1.351	43.77	PK1	28.9	-33.9	0	38.77	-	-	74	-35.23	-	-	360	101	V
* 7.352	38.77	PK1	35.7	-27.4	0	47.07	-	-	74	-26.93	-	-	360	101	H
* 11.57	38.24	PK1	38.2	-24.6	0	51.84	-	-	74	-22.16	-	-	360	101	V
* 11.57	26.62	AD1	38.2	-24.6	.2	40.42	54	-13.58	-	-	-	-	360	101	V

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

UL Front - Chamber E

16 May 2014 08:45:58

Radiated Emissions 3-Meters

Project Number: 14017777

Client: LG

Config: EUT, AC Adapter, and Earphone

Mode: UNII S 06 11a HF20 5825

Tested by: R. Alegre

Peak Limit: 75 dBμV/m

UNII Non-Restricted: 65 dBμV/m

Avg Limit: 55 dBμV/m

Frequency (GHz)

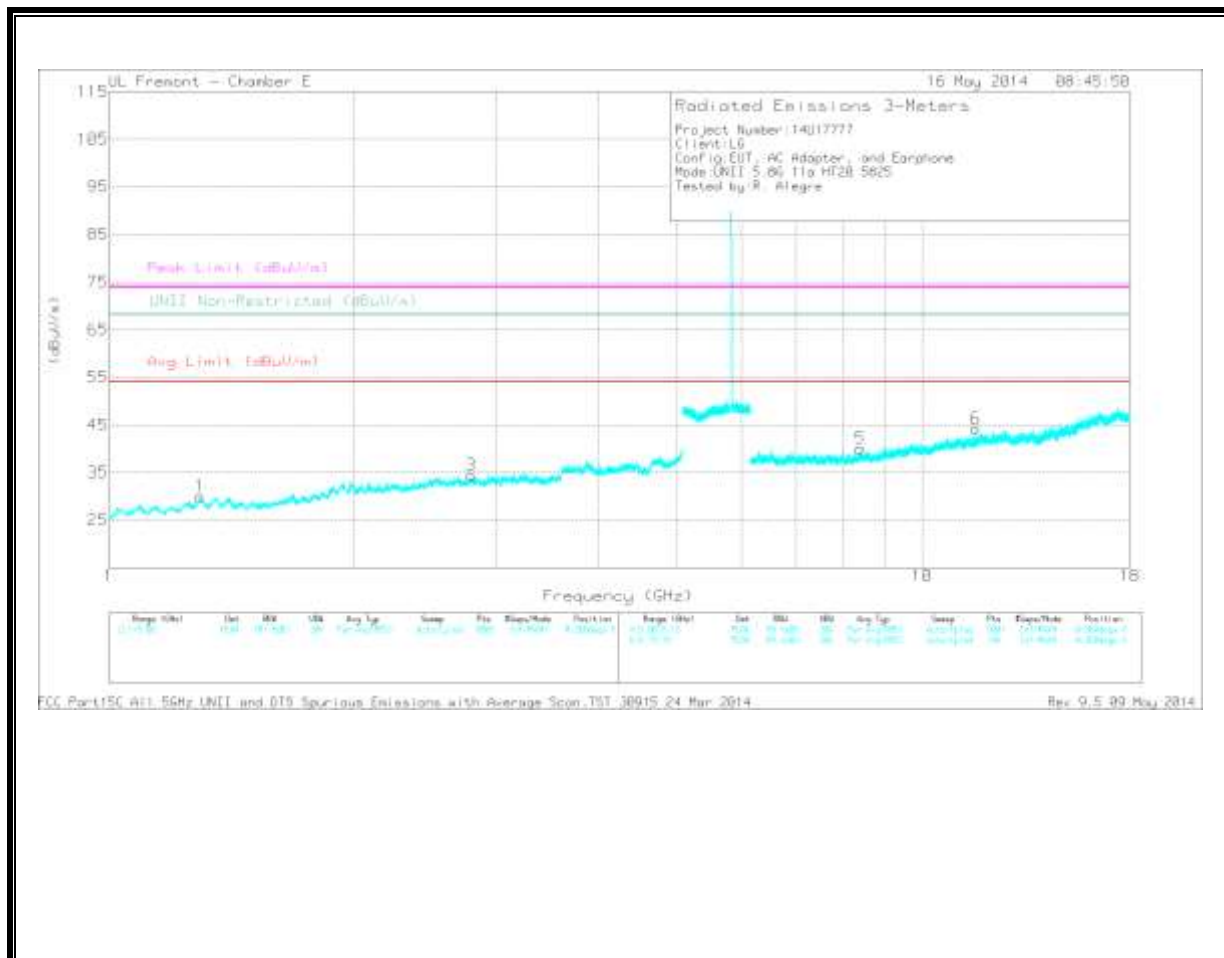
Range (dB)	Det	Ref	UN	Buy Up	Swamp	Pre	Range/Mode	Post Det	Range (dB)	Det	Ref	UN	Buy Up	Swamp	Pre	Range/Mode	Post Det
1.15 50	Peak	10.0 dB	30	Pre Avg Mode	Auto Gain	0.0	0.0	0.0	5.0 10.0	Peak	10.0 dB	30	Pre Avg Mode	Auto Gain	0.0	0.0	0.0
0.0 0.0	Peak	10.0 dB	30	Pre Avg Mode	Auto Gain	0.0	0.0	0.0	5.0 10.0	Peak	10.0 dB	30	Pre Avg Mode	Auto Gain	0.0	0.0	0.0

FCC Part 15C A11.5GHz UNII and DTG Spurious Emissions with Average Scan.TST.38915.24 Mar.2014

Rev. 0.5.30 May 2014

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VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.272	34.91	PK	31.4	-32.6	0	33.71	-	-	74	-40.29	-	-	0-360	101	H
4	* 4.711	34.72	PK	34.2	-30.3	0	38.62	-	-	74	-35.38	-	-	0-360	101	H
1	* 1.295	35.35	PK	28.9	-34.2	0	30.05	-	-	74	-43.95	-	-	0-360	200	V
3	* 2.791	34.11	PK	32.4	-32	0	34.51	-	-	74	-39.49	-	-	0-360	200	V
5	* 8.401	31.05	PK	35.9	-26.9	0	40.05	-	-	74	-33.95	-	-	0-360	200	V
6	* 11.649	30.21	PK	38.3	-24.3	0	44.21	-	-	74	-29.79	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

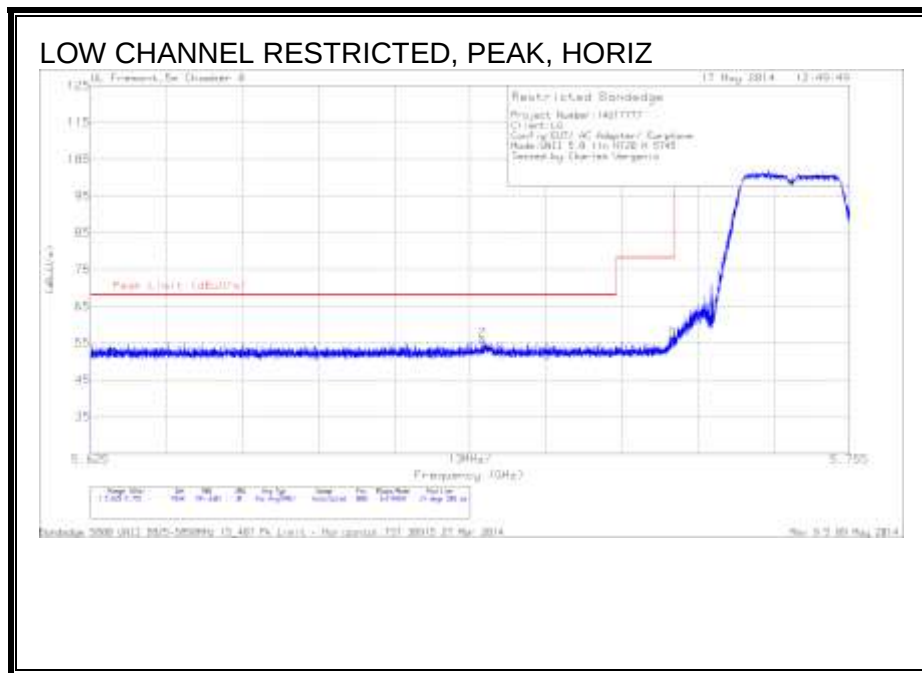
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.711	40.78	PK1	34.2	-30.3	0	44.68	-	-	74	-29.32	-	-	360	102	H
* 2.272	42.79	PK1	31.4	-32.6	0	41.59	-	-	74	-32.41	-	-	360	102	H
* 2.791	41.96	PK1	32.4	-32	0	42.36	-	-	74	-31.64	-	-	360	200	V
* 1.295	44.04	PK1	28.9	-34.2	0	38.74	-	-	74	-35.26	-	-	360	200	V
* 11.648	36.56	PK1	38.3	-24.3	0	50.56	-	-	74	-23.44	-	-	360	101	V
* 11.65	26.33	AD1	38.3	-24.3	.2	40.53	54	-13.47	-	-	-	-	360	101	V
* 8.4	38.56	PK1	35.9	-26.9	0	47.56	-	-	74	-26.44	-	-	360	200	V

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

PK1 - KDB789033 Method: Peak

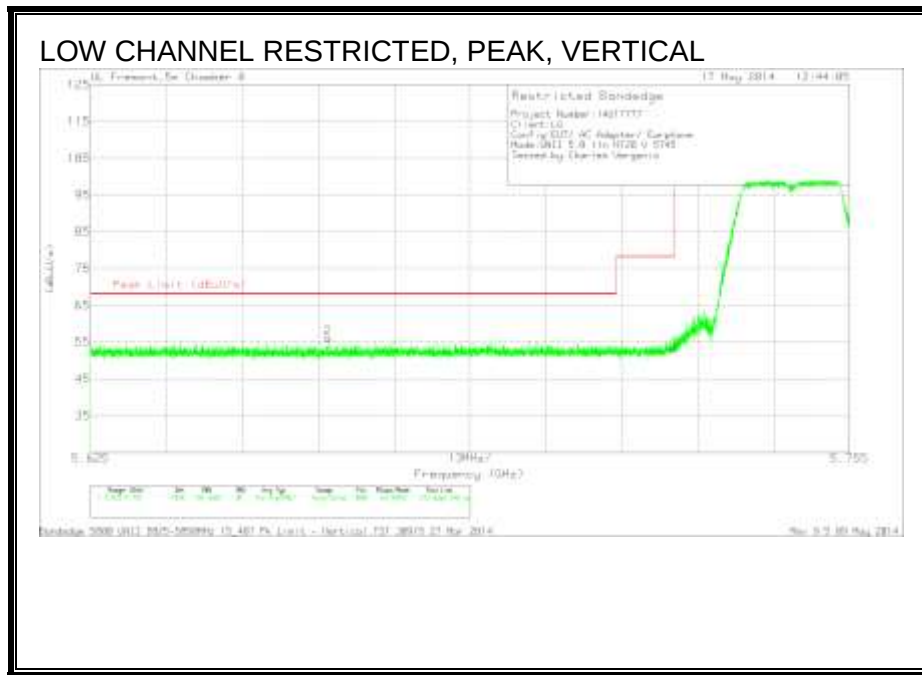
AD1 - KDB789033 Method: AD Primary Power Average

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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.692	41.45	PK	34.5	-20	55.95	68.2	-12.25	31	200	H
1	5.725	41.29	PK	34.6	-19.9	55.99	78.2	-22.21	31	200	H

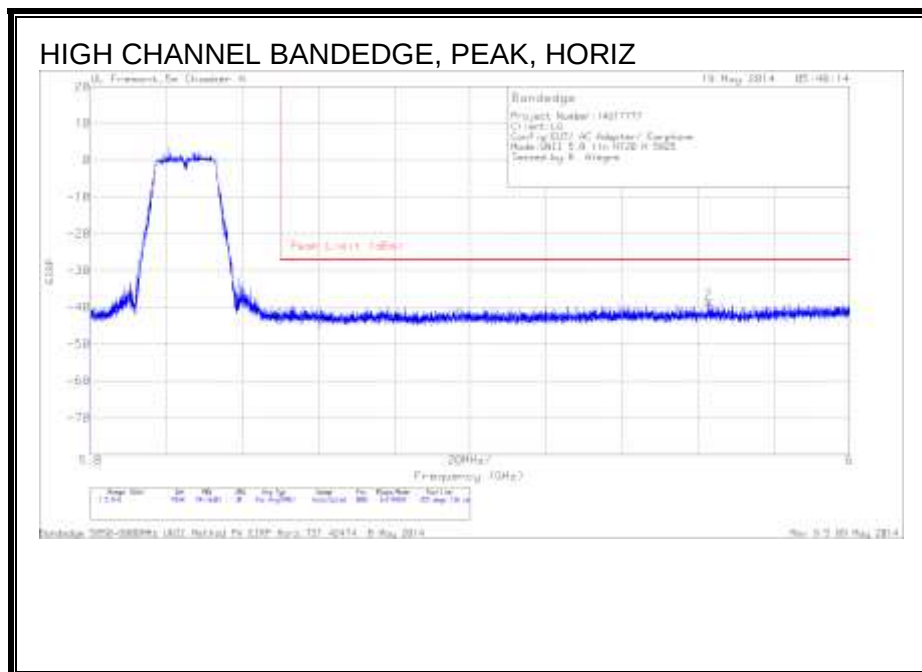
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.666	41.68	PK	34.5	-20.1	56.08	68.2	-12.12	243	198	V
1	5.725	38.5	PK	34.6	-19.9	53.2	78.2	-25	243	198	V

PK - Peak detector

RESTRICTED BANDEDGE (HIGH CHANNEL)

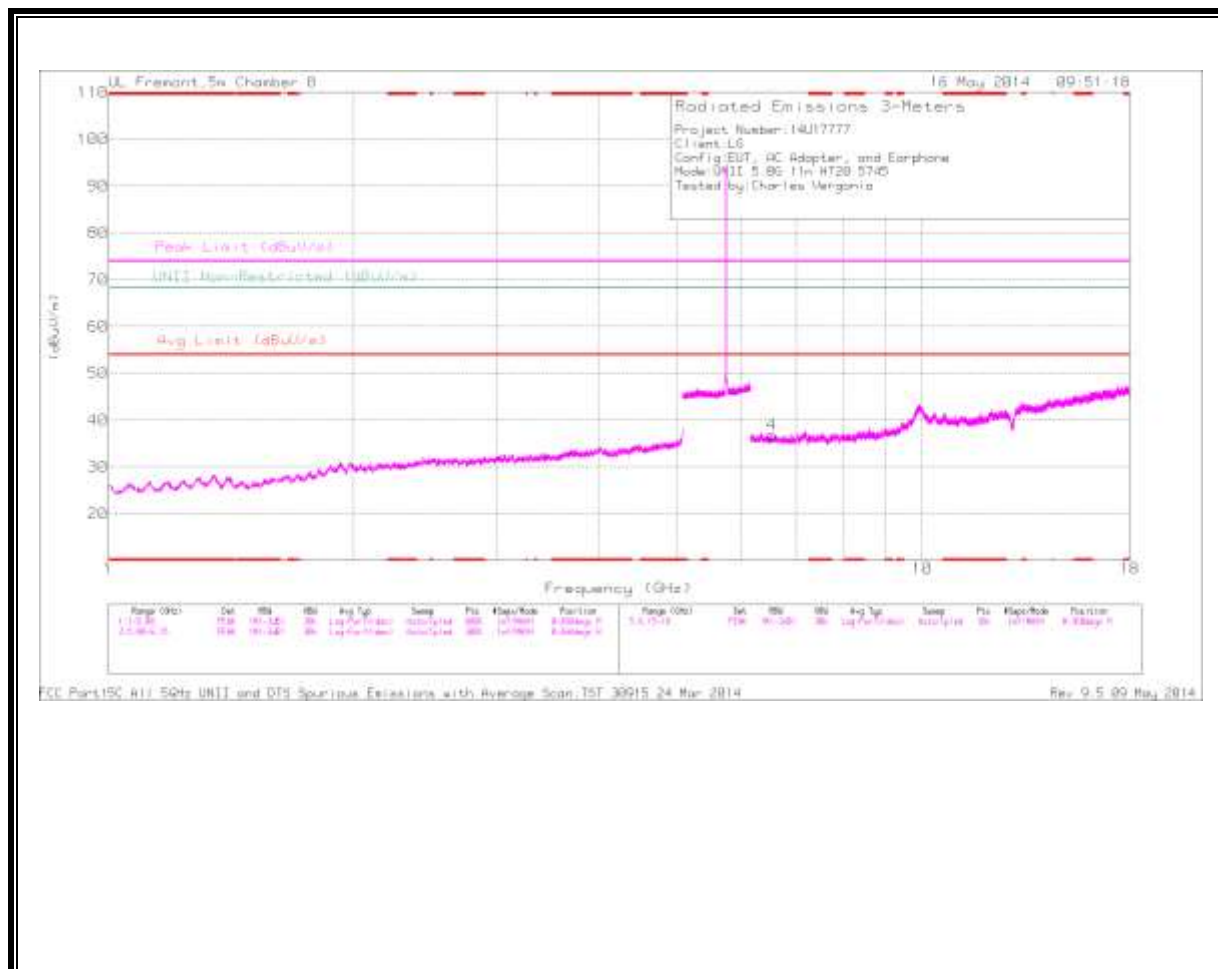


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70.84	PK	34.9	-19.2	11.8	0	-43.34	-27	-16.34	355	136	H
2	5.963	-66.31	PK	35.2	-19.3	11.8	0	-38.61	-27	-11.61	355	136	H

PK - Peak detector

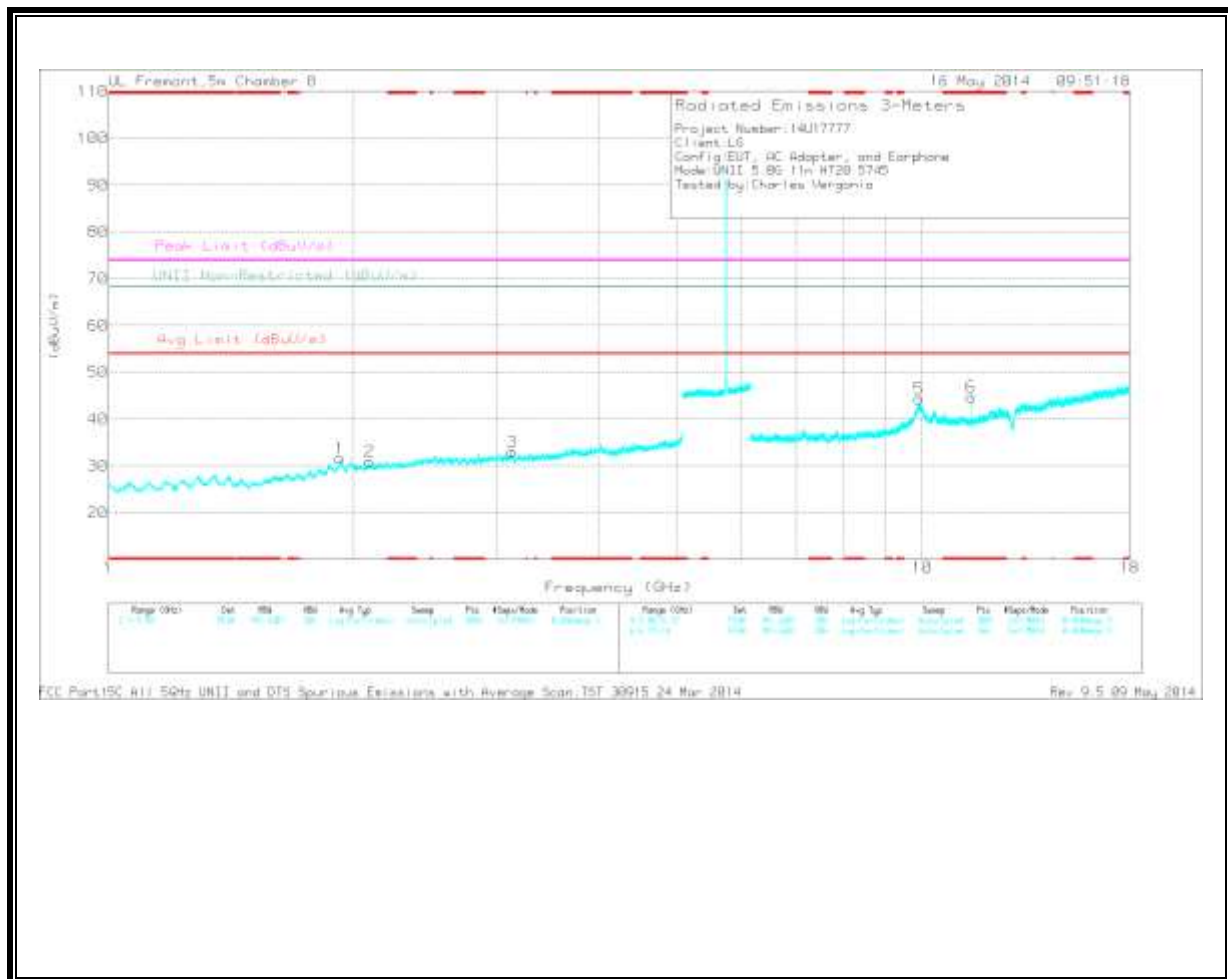
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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

VERTICAL



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

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/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
6	* 11.49	28.99	PK	38	-22.3	0	44.69	-	-	74	-29.31	-	-	0-360	202	V
1	1.924	33.44	PK	31.1	-32.9	0	31.64	-	-	-	-	68.2	-36.56	0-360	202	V
2	2.094	33.41	PK	31.2	-33.6	0	31.01	-	-	-	-	68.2	-37.19	0-360	99	V
3	3.134	31.98	PK	32.8	-31.7	0	33.08	-	-	-	-	68.2	-35.12	0-360	99	V
4	6.535	28.93	PK	35.7	-27.7	0	36.93	-	-	-	-	68.2	-31.27	0-360	99	H
5	9.906	31.38	PK	37	-24.1	0	44.28	-	-	-	-	68.2	-23.92	0-360	202	V

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

PK - Peak detector

Radiated Emissions

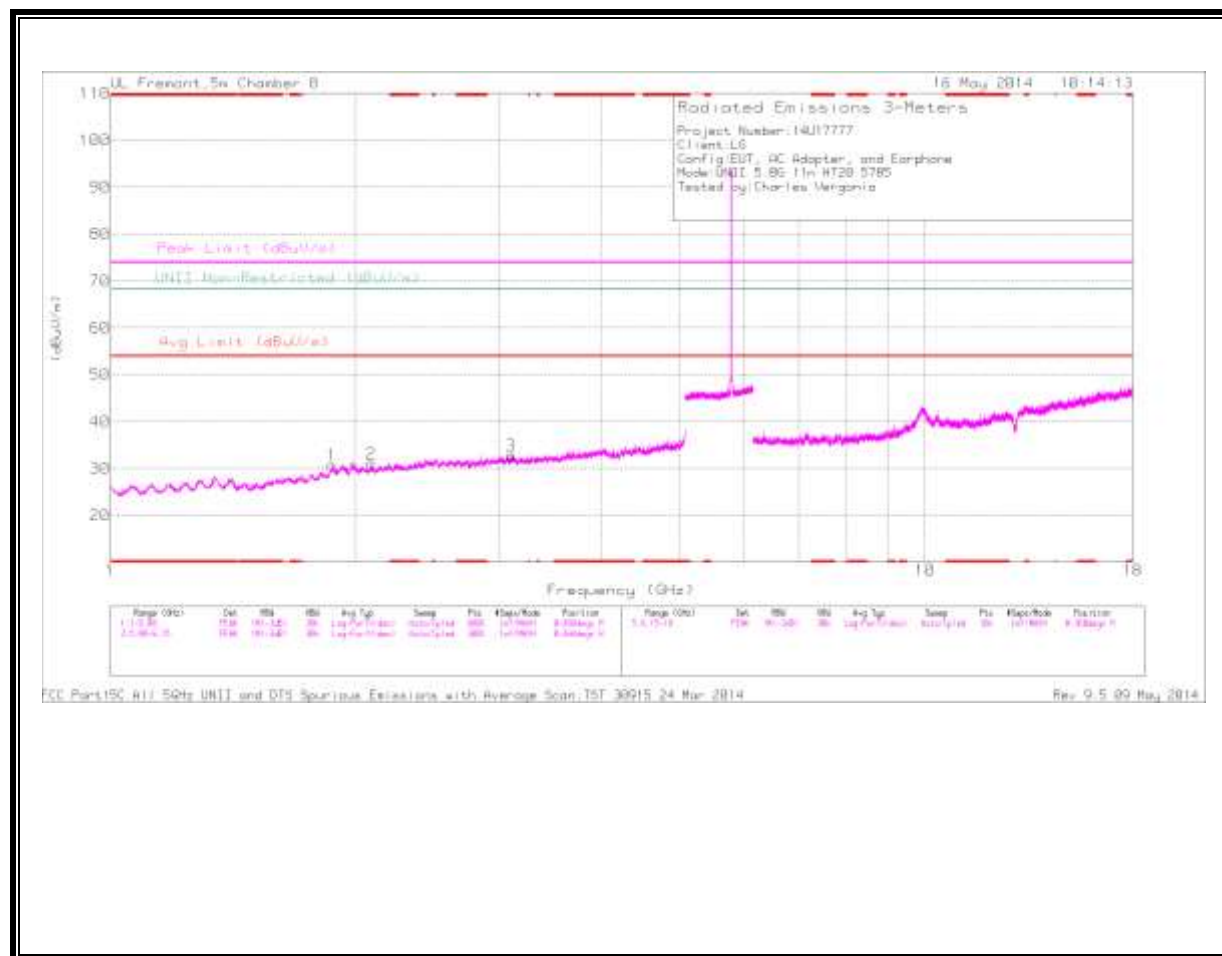
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.49	36.58	PK1	38	-22.3	0	52.28	-	-	74	-21.72	-	-	321	222	V
* 11.49	27.92	AD1	38	-22.3	.2	43.82	54	-10.18	-	-	-	-	321	222	V
9.905	27.75	AD1	37	-24.1	.2	40.85	-	-	-	-	-	-	359	204	V
9.908	39.48	PK1	37	-24.1	0	52.38	-	-	-	-	68.2	-15.82	359	204	V

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

PK1 - KDB789033 Method: Peak

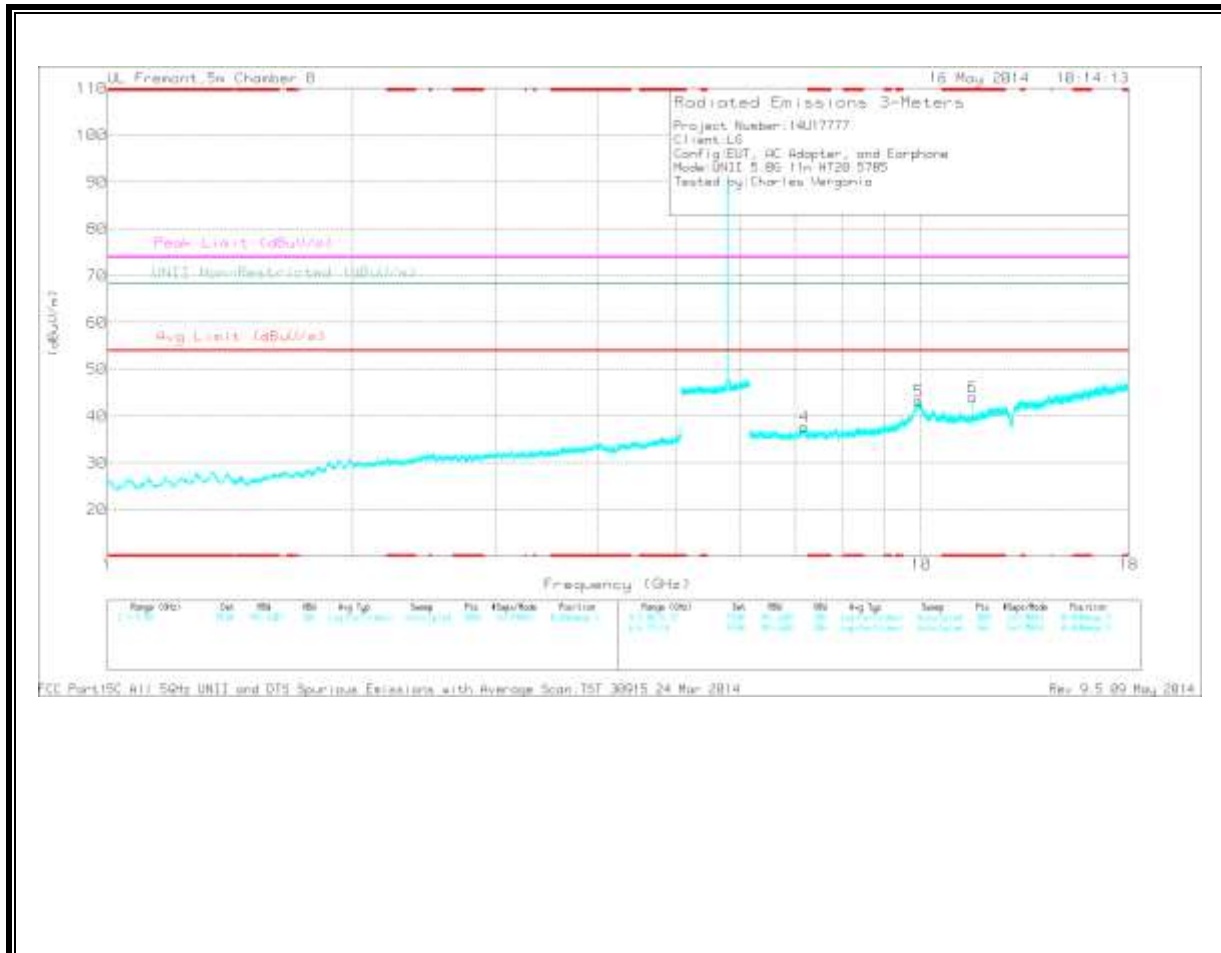
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL
HORIZONTAL



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

VERTICAL



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

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.57	27.89	PK	38.1	-21.9	0	44.09	-	-	74	-29.91	-	-	0-360	202	V
1	1.869	33.14	PK	30.8	-33.2	0	30.74	-	-	-	-	68.2	-37.46	0-360	99	H
2	2.092	33.44	PK	31.3	-33.7	0	31.04	-	-	-	-	68.2	-37.16	0-360	99	H
3	3.105	31.83	PK	32.9	-31.9	0	32.83	-	-	-	-	68.2	-35.37	0-360	201	H
4	7.179	28.68	PK	35.6	-26.6	0	37.68	-	-	-	-	68.2	-30.52	0-360	202	V
5	9.923	30.16	PK	37	-24	0	43.16	-	-	-	-	68.2	-25.04	0-360	202	V

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

PK - Peak detector

Radiated Emissions

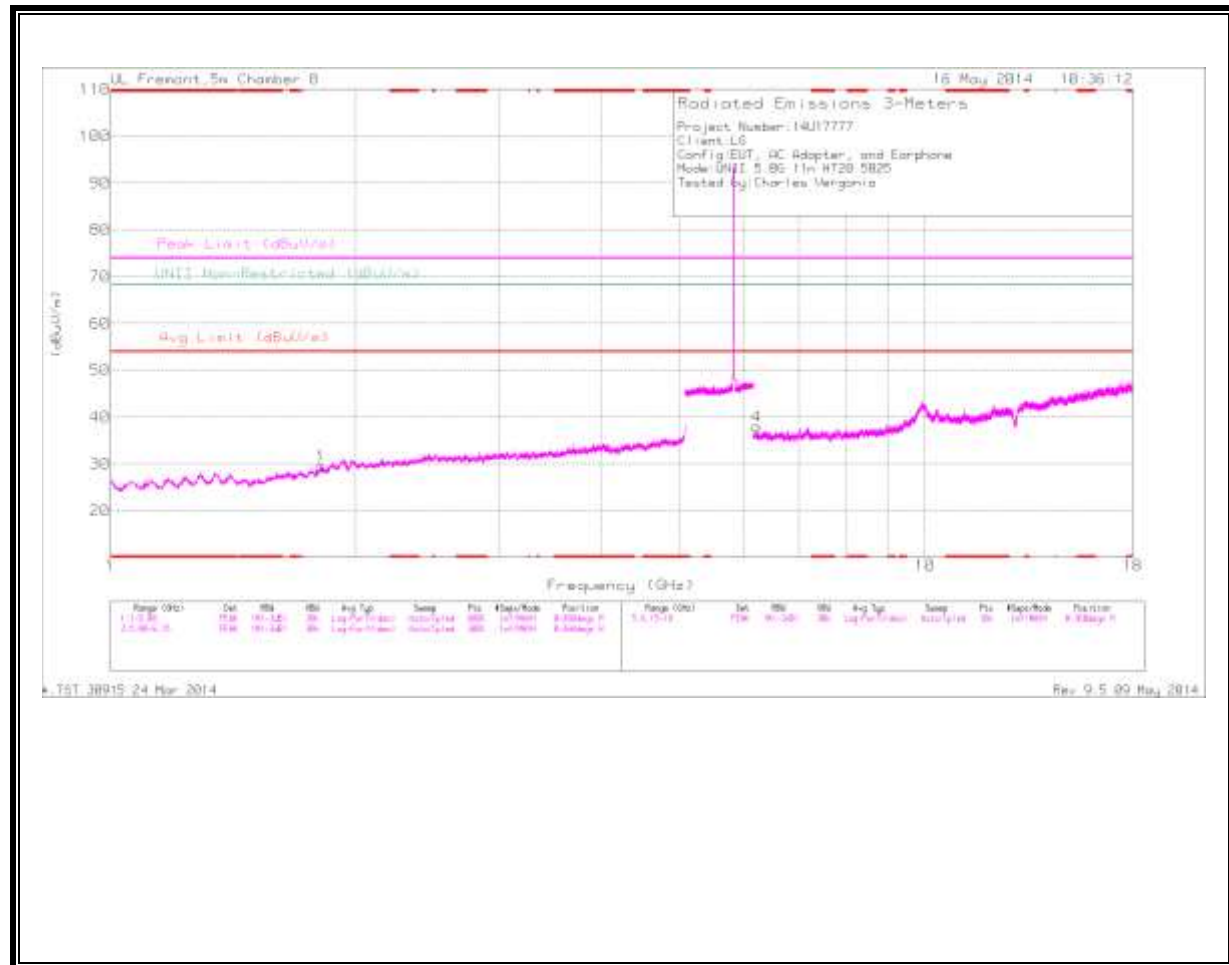
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.57	36.71	PK1	38.1	-21.9	0	52.91	-	-	74	-21.09	-	-	334	211	V
* 11.57	27.65	AD1	38.1	-21.9	.2	44.05	54	-9.95	-	-	-	-	334	211	V
9.922	27.75	AD1	37	-24	.2	40.95	-	-	-	-	-	-	359	204	V
9.924	38.95	PK1	37	-23.9	0	52.05	-	-	-	-	68.2	-16.15	359	204	V

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

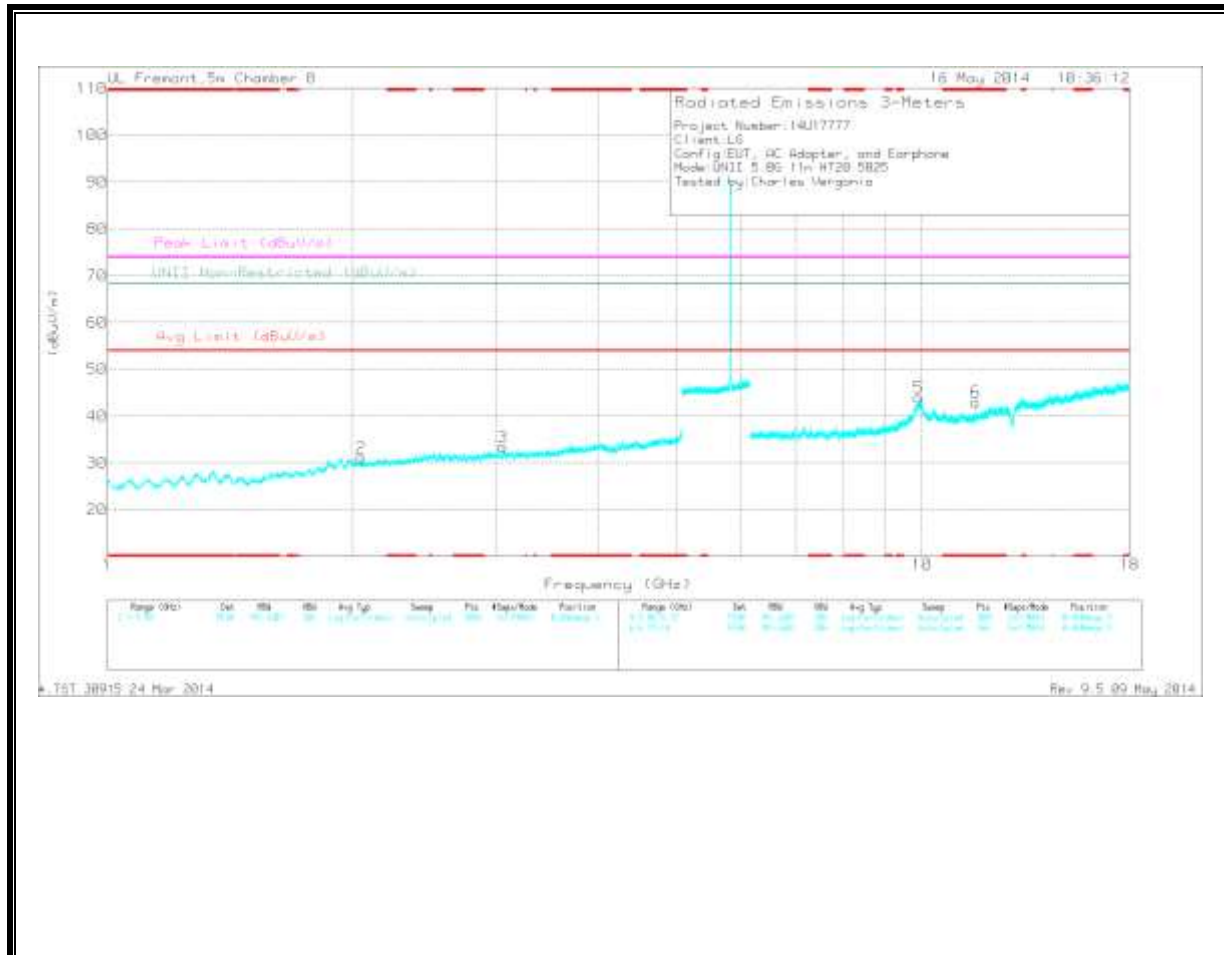
PK1 - KDB789033 Method: Peak

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 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.65	27.45	PK	38.1	-22.5	0	43.05	-	-	74	-30.95	-	-	0-360	202	V
1	1.812	33.15	PK	30.3	-33.9	0	29.55	-	-	-	-	68.2	-38.65	0-360	99	H
2	2.047	33.48	PK	31.3	-33.7	0	31.08	-	-	-	-	68.2	-37.12	0-360	99	V
3	3.059	32.87	PK	32.8	-32.2	0	33.47	-	-	-	-	68.2	-34.73	0-360	99	V
4	6.216	30.9	PK	35.4	-28.3	0	38	-	-	-	-	68.2	-30.2	0-360	201	H
5	9.908	31.01	PK	37	-24.1	0	43.91	-	-	-	-	68.2	-24.29	0-360	202	V

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

PK - Peak detector

Radiated Emissions

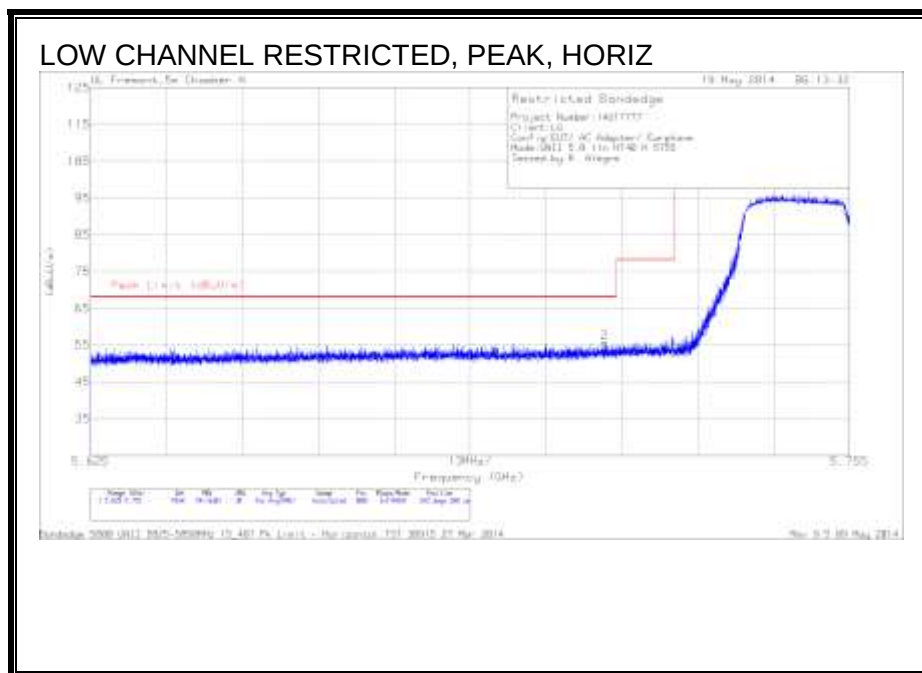
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.65	35.78	PK1	38.1	-22.5	0	51.38	-	-	74	-22.62	-	-	192	120	V
* 11.65	25.2	AD1	38.1	-22.5	.2	41	54	-13	-	-	-	-	192	120	V
9.907	27.9	AD1	37	-24.1	.2	41	-	-	-	-	-	-	359	204	V
9.909	39.26	PK1	37	-24.1	0	52.16	-	-	-	-	68.2	-16.04	359	204	V

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

PK1 - KDB789033 Method: Peak

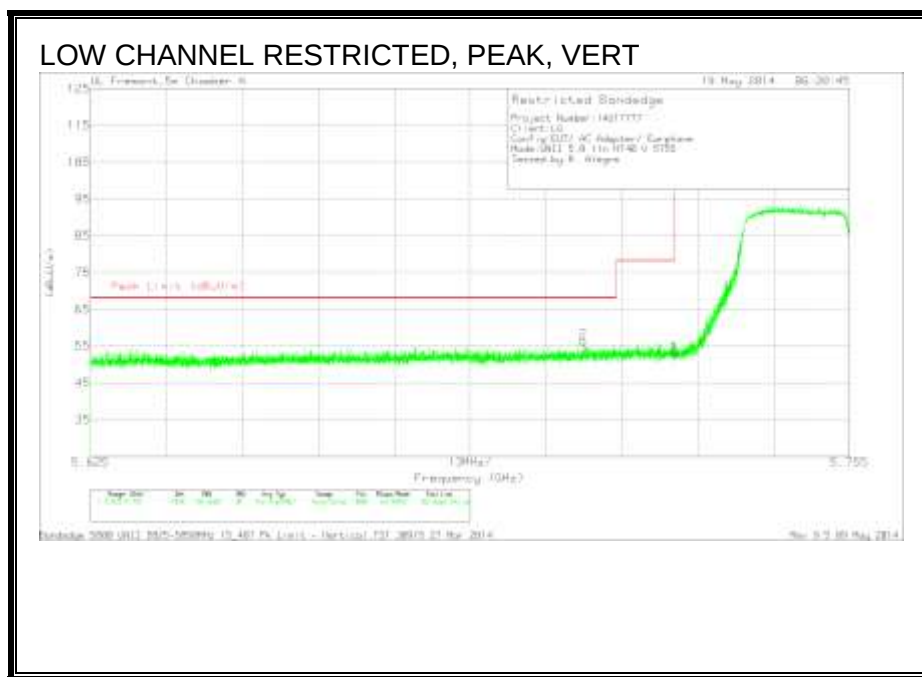
AD1 - KDB789033 Method: AD Primary Power Average

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



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	40.73	PK	34.5	-19.6	0	55.63	68.2	-12.57	343	208	H
1	5.725	38.07	PK	34.6	-19.6	0	53.07	78.2	-25.13	343	208	H

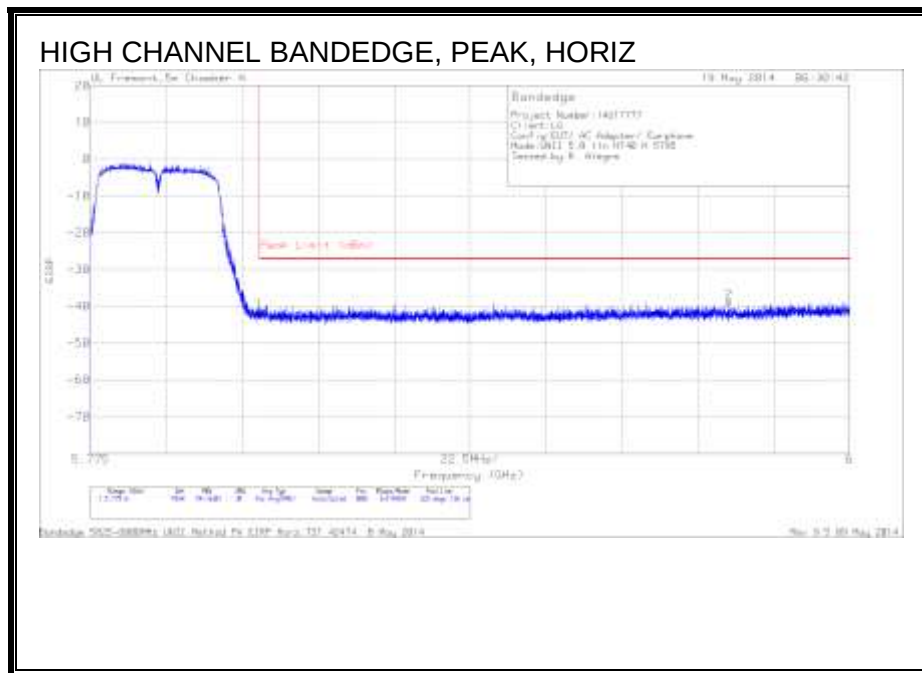
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (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
2	5.709	41.7	PK	34.5	-19.8	0	56.4	68.2	-11.8	102	243	V
1	5.725	37.84	PK	34.6	-19.6	0	52.84	78.2	-25.36	102	243	V

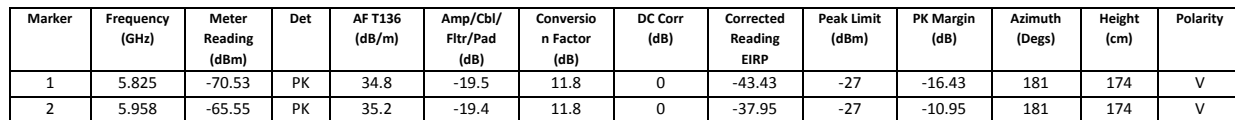
PK - Peak detector

RESTRICTED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.825	-68.32	PK	34.8	-19.5	11.8	0	-41.22	-27	-14.22	326	136	H
2	5.964	-66.3	PK	35.2	-19.4	11.8	0	-38.7	-27	-11.7	326	136	H

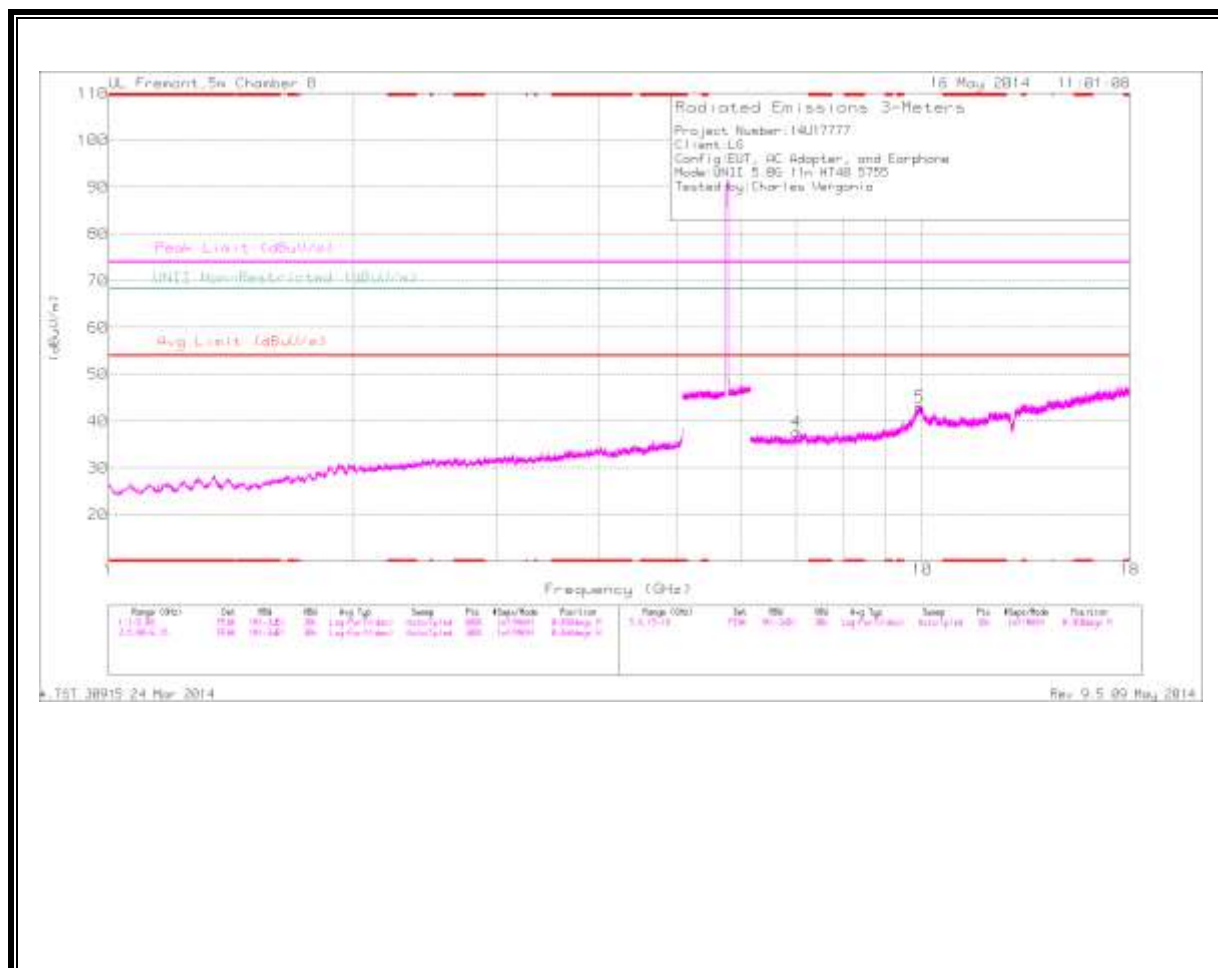
PK - Peak detector



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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 DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.51	27.83	PK	38.1	-22.1	0	43.83	-	-	74	-30.17	-	-	0-360	202	V
1	1.926	33.26	PK	31.1	-32.9	0	31.46	-	-	-	-	68.2	-36.74	0-360	99	V
2	2.038	32.99	PK	31.3	-33.6	0	30.69	-	-	-	-	68.2	-37.51	0-360	99	V
3	3.065	32.57	PK	32.8	-32.2	0	33.17	-	-	-	-	68.2	-35.03	0-360	202	V
4	7.015	29.26	PK	35.6	-27.2	0	37.66	-	-	-	-	68.2	-30.54	0-360	201	H
5	9.921	30.03	PK	37	-24	0	43.03	-	-	-	-	68.2	-25.17	0-360	99	H

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

PK - Peak detector

Radiated Emissions

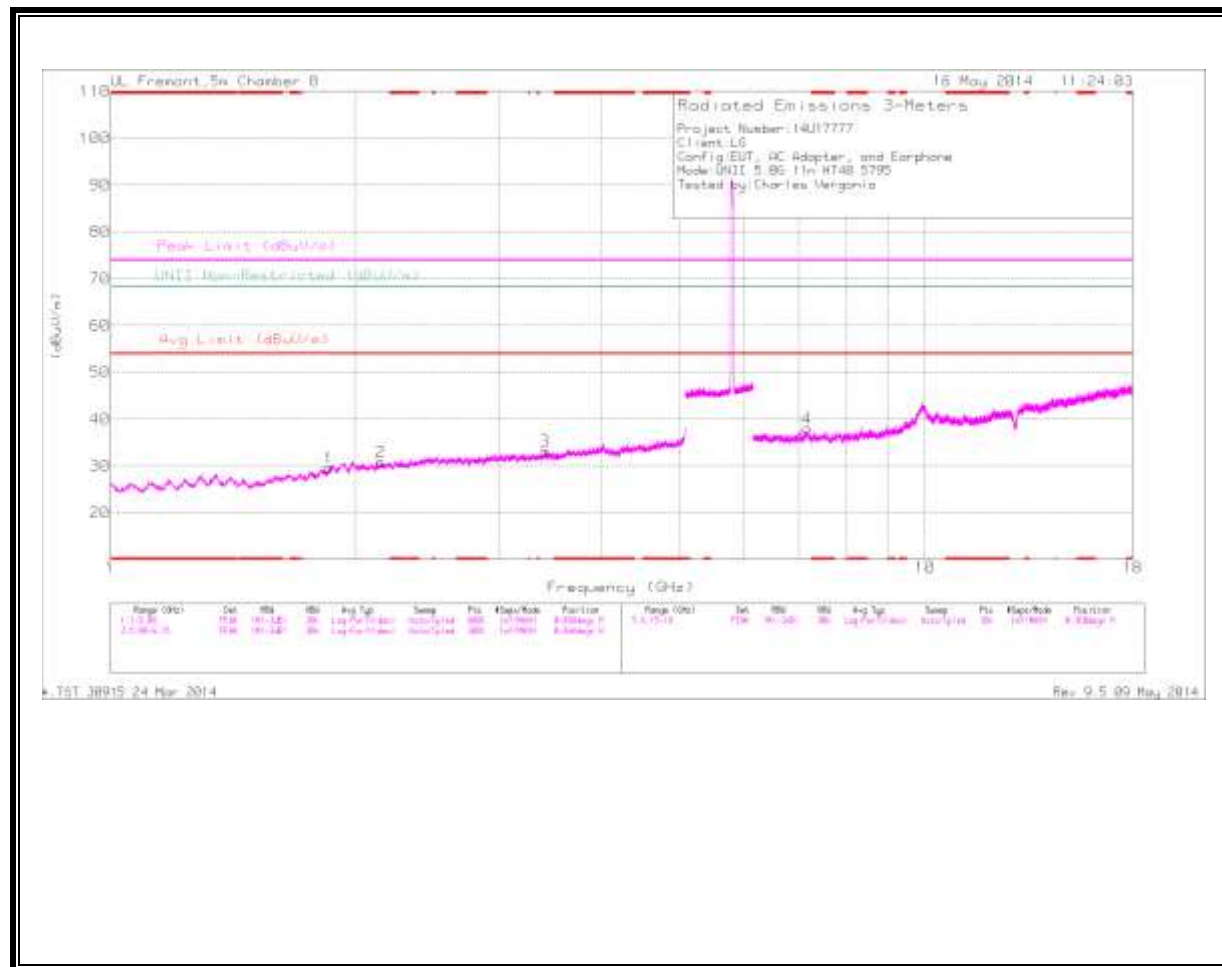
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.51	36.24	PK1	38.1	-22.1	0	52.24	-	-	74	-21.76	-	-	321	204	V
* 11.51	28.74	AD1	38.1	-22.1	.5	45.24	54	-8.76	-	-	-	-	321	204	V
9.92	39.01	PK1	37	-24	0	52.01	-	-	-	-	68.2	-16.19	359	100	H
9.92	27.72	AD1	37	-24	.5	41.22	-	-	-	-	-	-	359	100	H

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

PK1 - KDB789033 Method: Peak

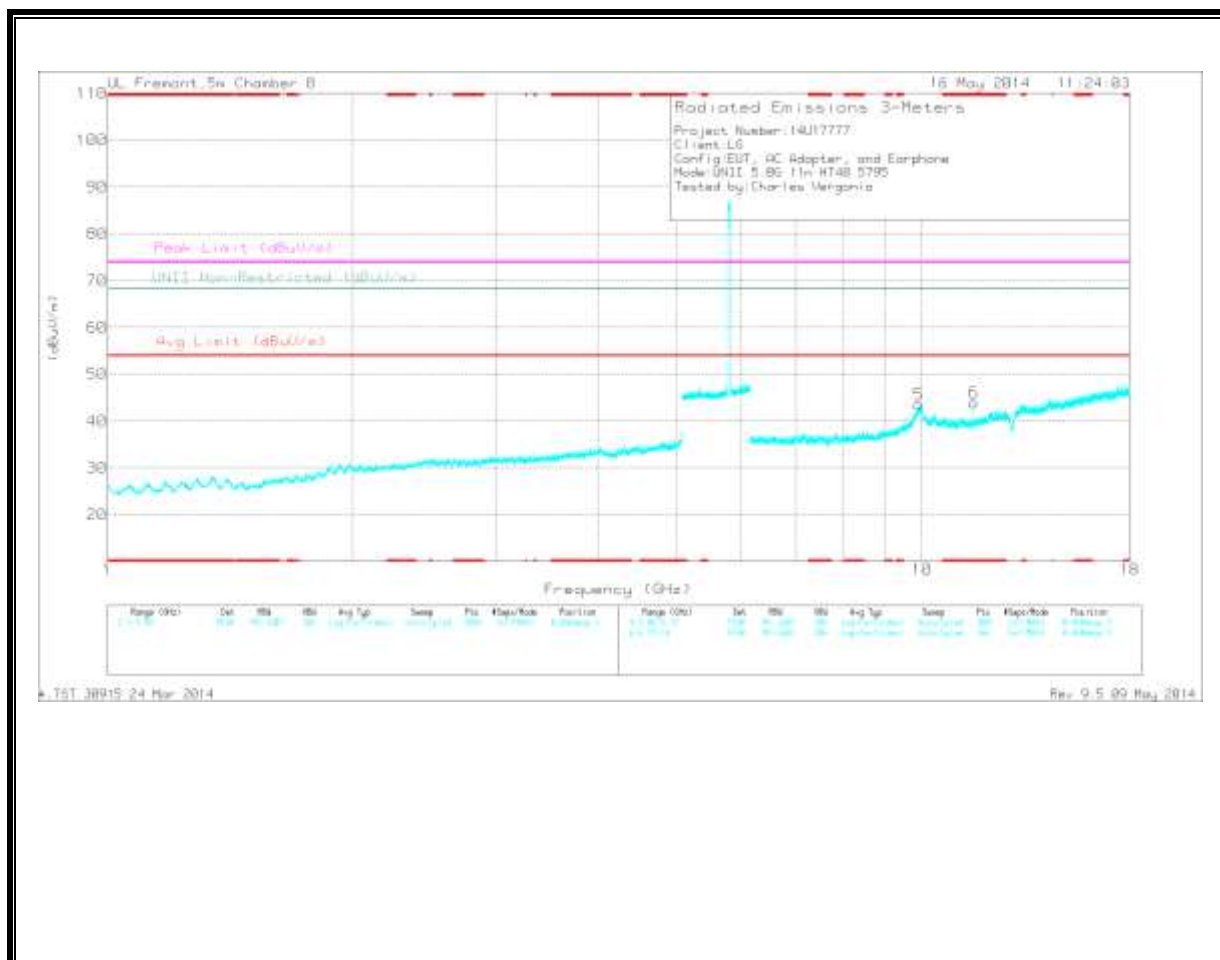
AD1 - KDB789033 Method: AD Primary Power Average

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.

VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.59	28.01	PK	38.1	-22.1	0	44.01	-	-	74	-29.99	-	-	0-360	202	V
1	1.853	32.46	PK	30.6	-33.5	0	29.56	-	-	-	-	68.2	-38.64	0-360	99	H
2	2.15	32.28	PK	31.3	-32.7	0	30.88	-	-	-	-	68.2	-37.32	0-360	202	H
3	3.419	31.54	PK	32.8	-31.2	0	33.14	-	-	-	-	68.2	-35.06	0-360	99	H
4	7.169	29.23	PK	35.6	-26.9	0	37.93	-	-	-	-	68.2	-30.27	0-360	99	H
5	9.916	30.7	PK	37	-24.1	0	43.6	-	-	-	-	68.2	-24.6	0-360	99	V

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

PK - Peak detector

Radiated Emissions

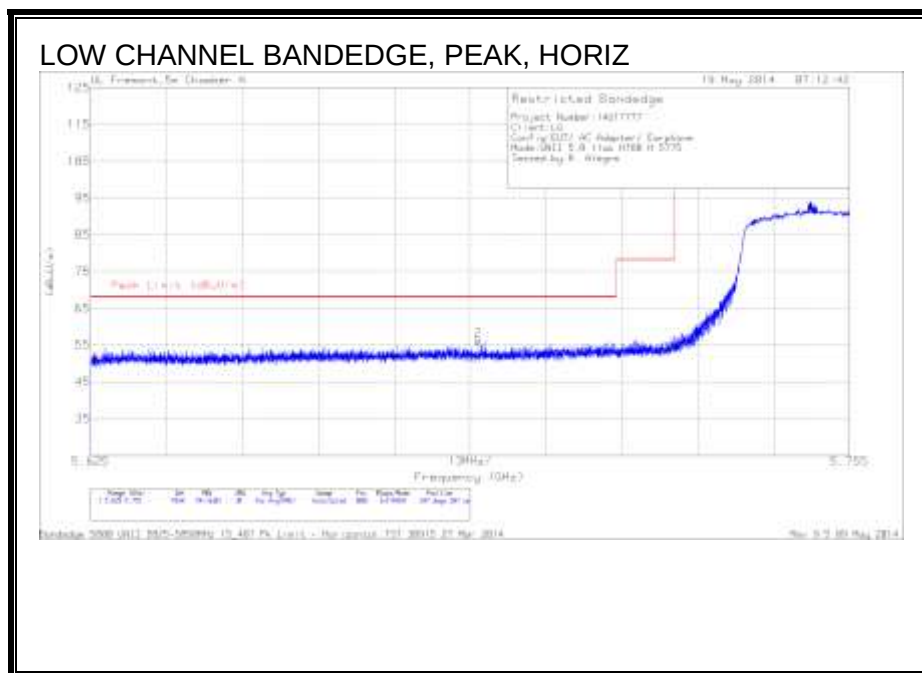
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.59	35.7	PK1	38.1	-22.1	0	51.7	-	-	74	-22.3	-	-	316	205	V
* 11.59	25.85	AD1	38.1	-22.1	.5	42.35	54	-11.65	-	-	-	-	316	205	V
9.915	39.25	PK1	37	-24.1	0	52.15	-	-	-	-	68.2	-16.05	359	100	V
9.915	27.75	AD1	37	-24.2	.5	41.05	-	-	-	-	-	-	359	100	V

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

PK1 - KDB789033 Method: Peak

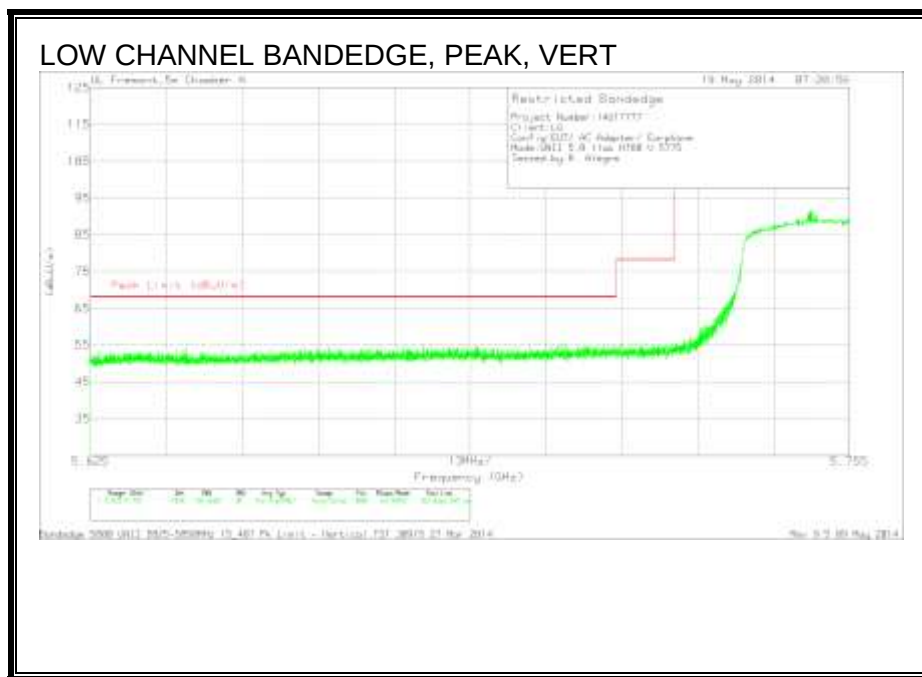
AD1 - KDB789033 Method: AD Primary Power Average

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



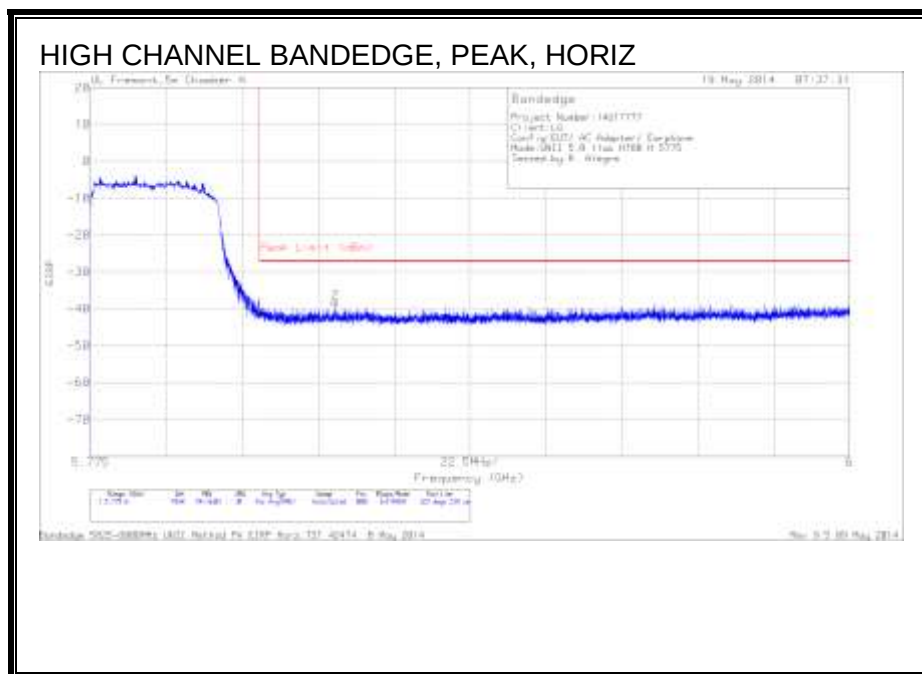
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.691	41.51	PK	34.5	-19.8	0	56.21	68.2	-11.99	347	207	H
1	5.725	39.35	PK	34.6	-19.6	0	54.35	78.2	-23.85	347	207	H

PK - Peak detector



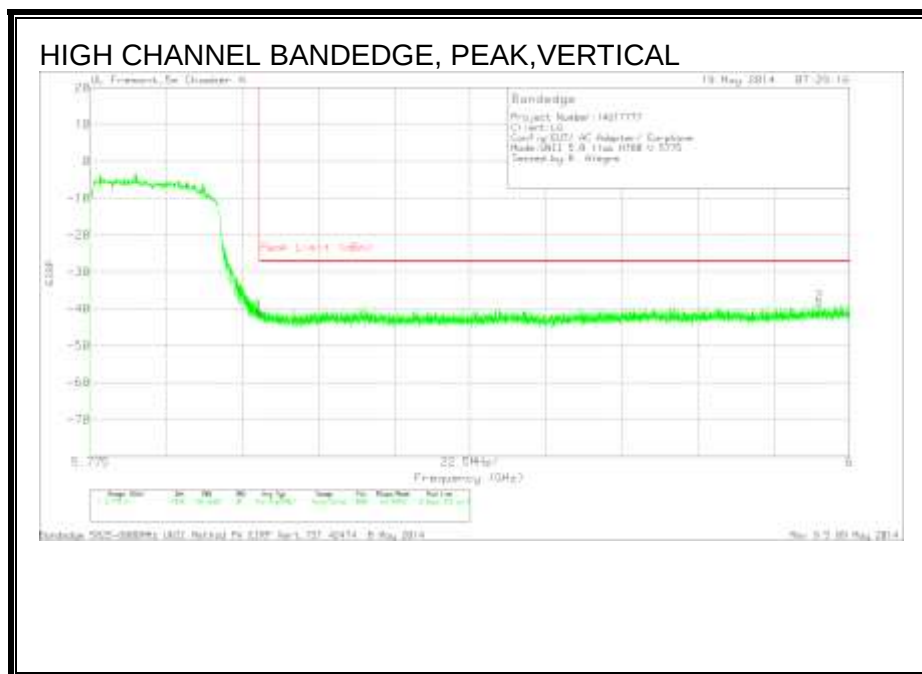
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.706	40.91	PK	34.5	-19.8	0	55.61	68.2	-12.59	103	265	V
1	5.725	38.62	PK	34.6	-19.6	0	53.62	78.2	-24.58	103	265	V

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.825	-68.17	PK	34.8	-19.5	11.8	0	-41.07	-27	-14.07	322	239	H
2	5.848	-65.58	PK	34.9	-19.3	11.8	0	-38.18	-27	-11.18	322	239	H

PK - Peak detector

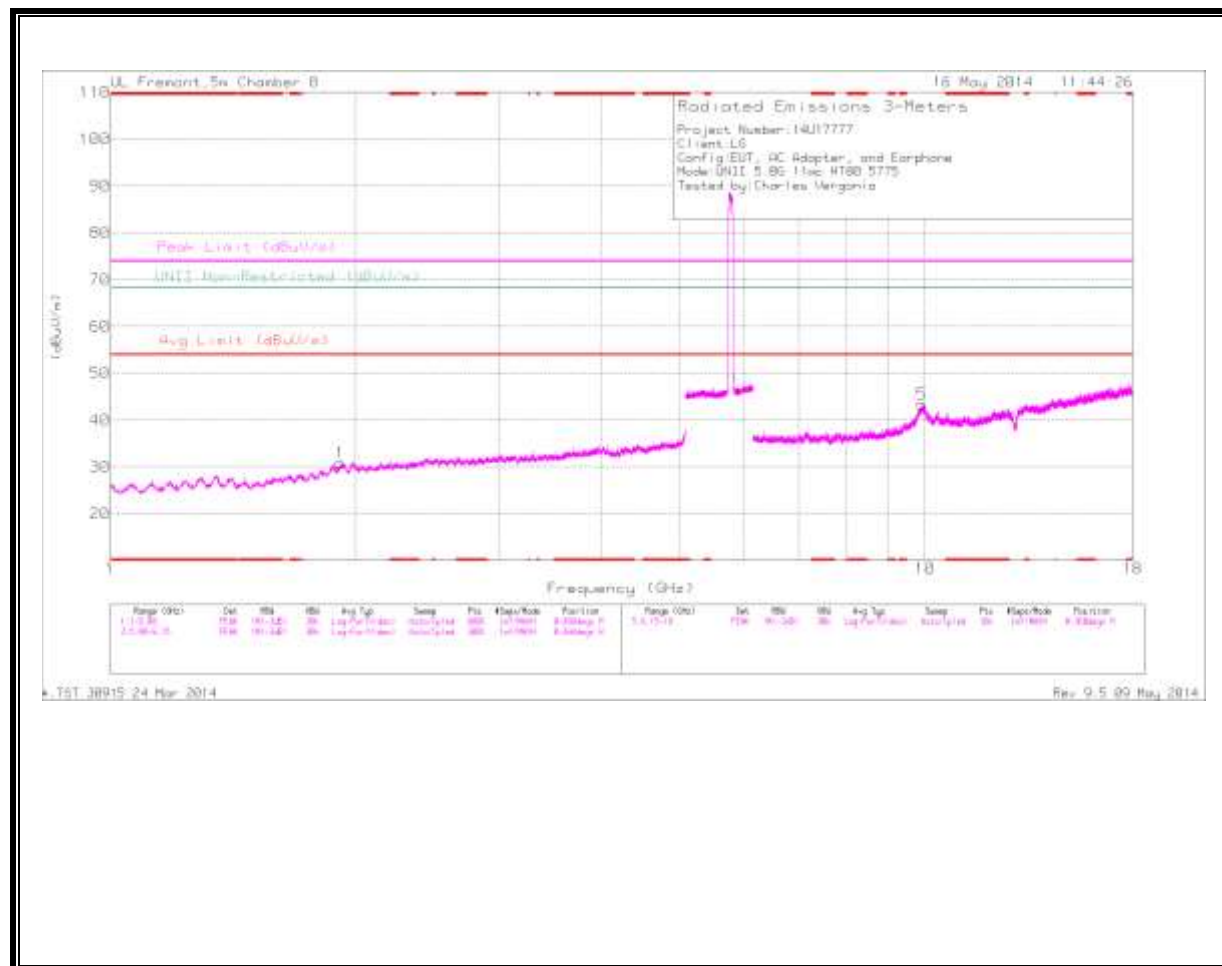


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT136 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.825	-67.95	PK	34.8	-19.5	11.8	0	-40.85	-27	-13.85	0	318	V
2	5.991	-66.17	PK	35.3	-19.2	11.8	0	-38.27	-27	-11.27	0	318	V

PK - Peak detector

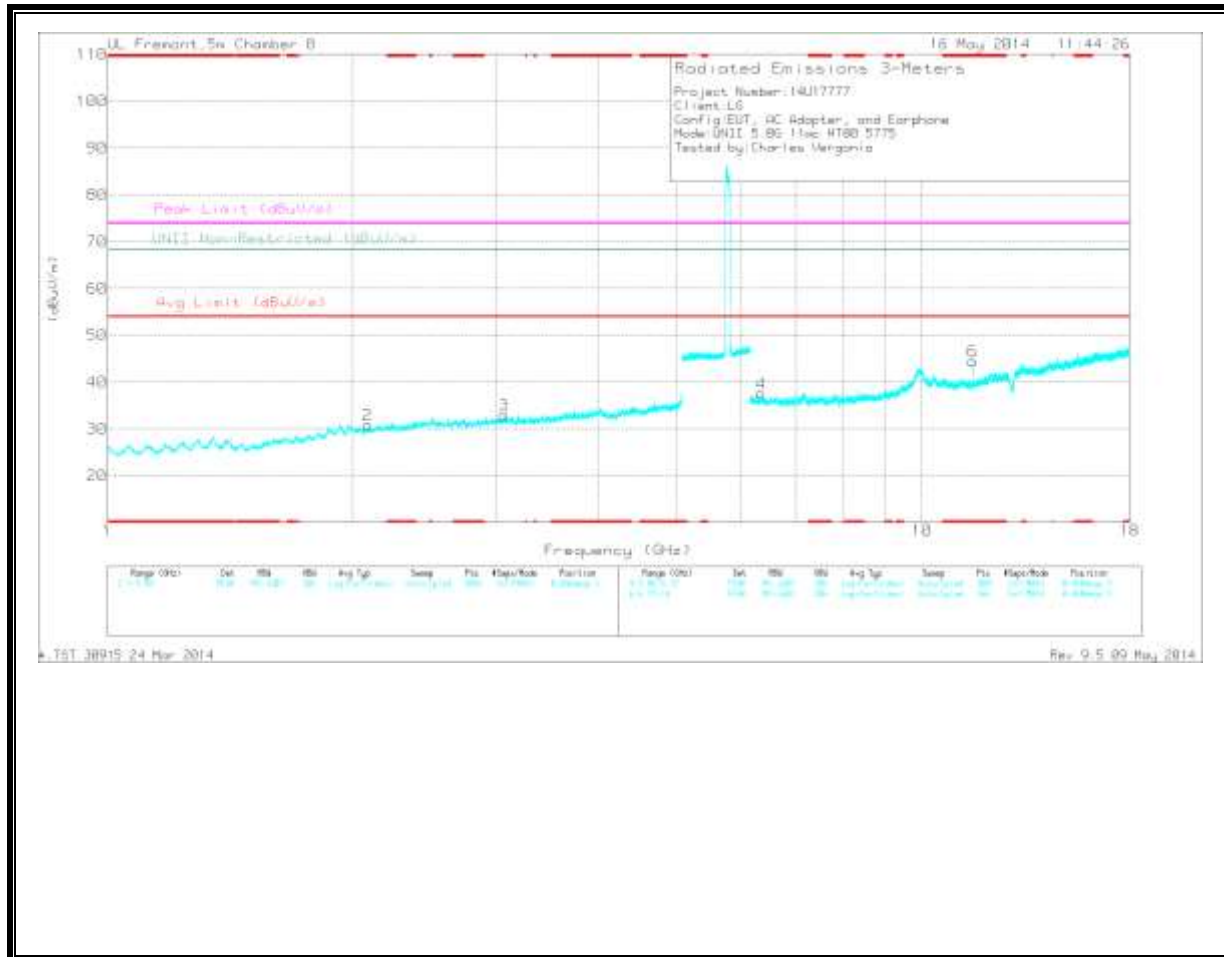
HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL
HORIZONTAL



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

VERTICAL



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

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	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
6	* 11.55	28.32	PK	38.1	-21.9	0	44.52	-	-	74	-29.48	-	-	0-360	202	V
1	1.915	32.6	PK	31.1	-32.8	0	30.9	-	-	-	-	68.2	-37.3	0-360	99	H
2	2.087	33.19	PK	31.3	-33.7	0	30.79	-	-	-	-	68.2	-37.41	0-360	202	V
3	3.066	32.27	PK	32.8	-32.2	0	32.87	-	-	-	-	68.2	-35.33	0-360	202	V
4	6.35	29.78	PK	35.6	-27.8	0	37.58	-	-	-	-	68.2	-30.62	0-360	202	V
5	9.916	30.51	PK	37	-24.1	0	43.41	-	-	-	-	68.2	-24.79	0-360	99	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.55	35.74	PK1	38.1	-21.9	0	51.94	-	-	74	-22.06	-	-	205	100	V
* 11.55	25.29	AD1	38.1	-21.9	1.5	42.99	54	-11.01	-	-	-	-	205	100	V
9.914	28.06	AD1	37	-24.2	1.5	42.36	-	-	-	-	-	-	359	100	H
9.916	39.38	PK1	37	-24.1	0	52.28	-	-	-	-	68.2	-15.92	359	100	H

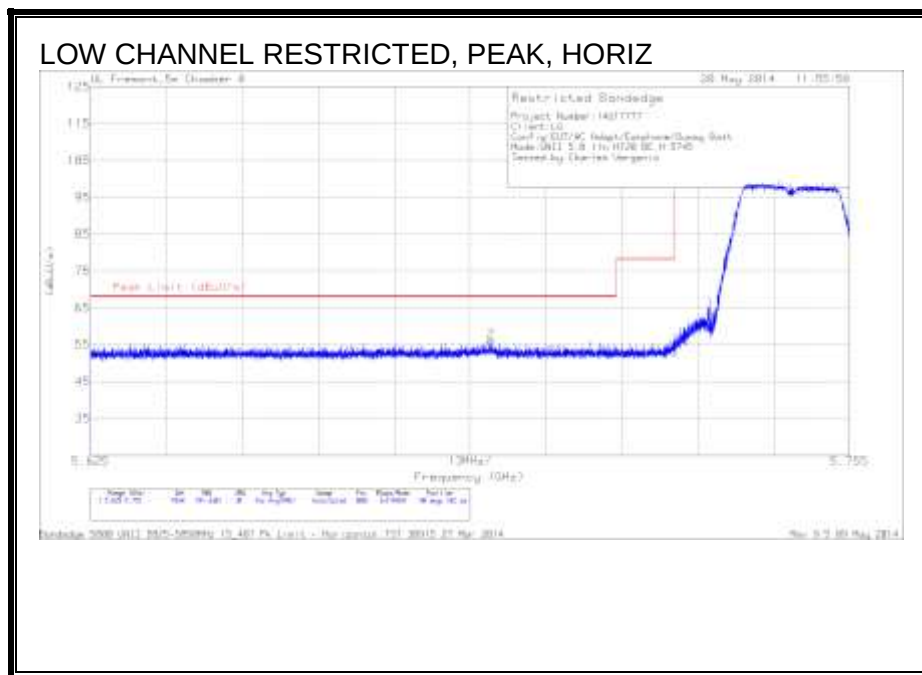
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

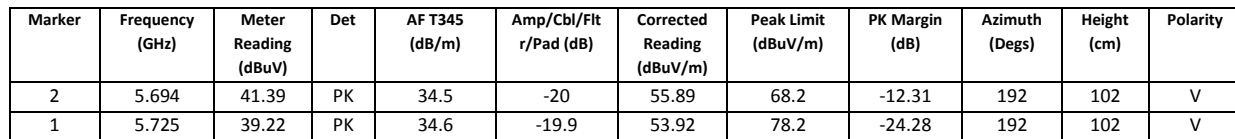
WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH DUMMY BATTERY AND COVER

RESTRICTED BANDEDGE WITH WPC CHARGER AND COVER (LOW CHANNEL)



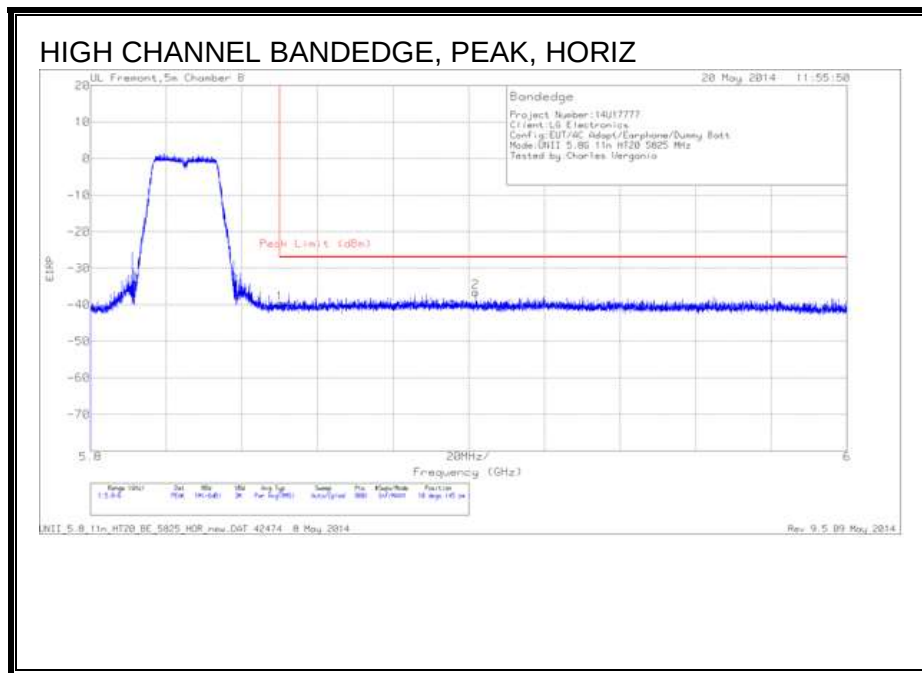
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.694	41.54	PK	34.5	-20	56.04	68.2	-12.16	90	102	H
1	5.725	38.41	PK	34.6	-19.9	53.11	78.2	-25.09	90	102	H

PK - Peak detector



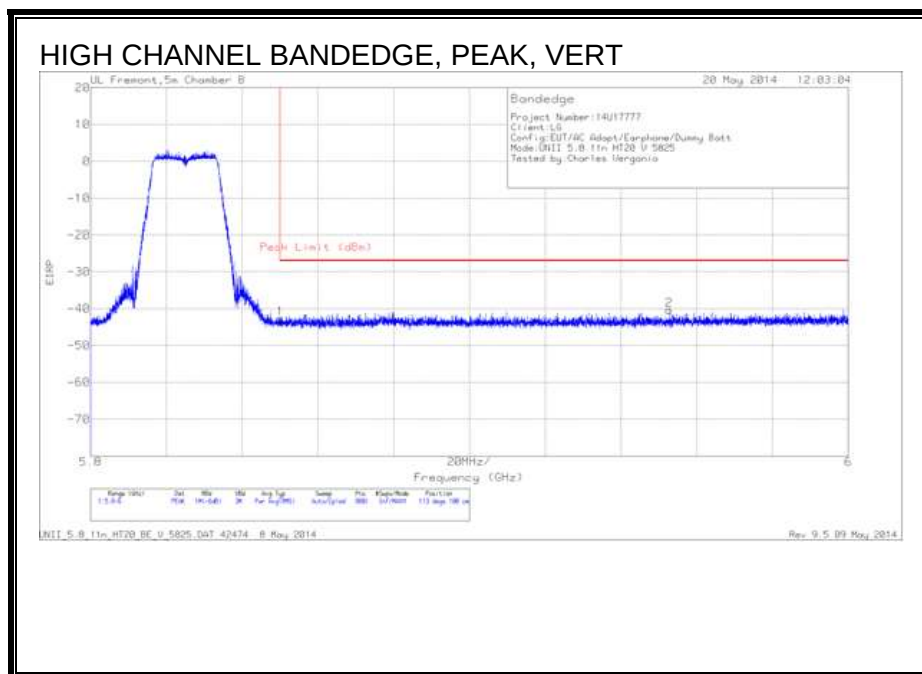
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RESTRICTED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T712 (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	-68.45	PK	34.4	-17.4	11.8	-39.65	-27	-12.65	10	145	H
2	5.902	-65.72	PK	34.4	-17	11.8	-36.52	-27	-9.52	10	145	H

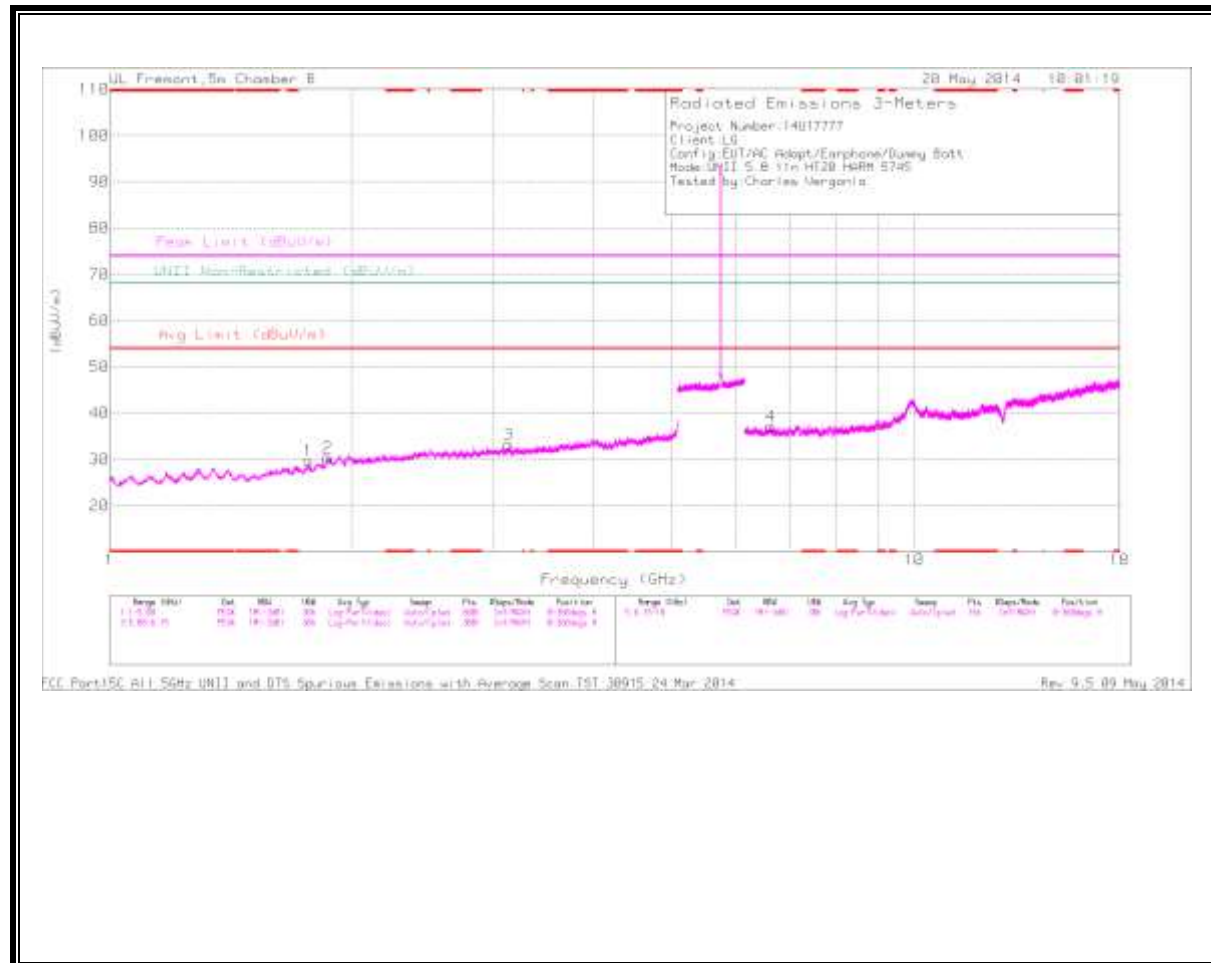
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (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	-69.55	PK	34.8	-19.8	11.8	-42.75	-27	-15.75	113	100	V
2	5.953	-67.94	PK	35.1	-19.3	11.8	-40.34	-27	-13.34	113	100	V

PK - Peak detector

HORIZONTAL



UL Present, 5m Chamber, B

20 May 2014 10:05:10

Radiated Emissions 3-Meters

Project Number: 14017777

Client: LG

Config: EUTRA Adapt/Earphone/Dummy Bots

Model: UNII S-B 17m HT20 HARM 5745

Tested by: Charles Vergon's

Peak Limit (dBuV/m)

UNII Non-Harmonized (dBuV/m)

Avg Limit (dBuV/m)

dBuV/m

Frequency (GHz)

Range (GHz)	Set	H02	100	Avg Type	Sweep	P1a	Slope/Mode	Power Unit
0.1-10	F02	100	100	Avg Per Product	10000000	100	100/NOISE	dBm

Range (GHz)	Set	H02	100	Avg Type	Sweep	P1a	Slope/Mode	Power Unit
0.1-10	F02	100	100	Avg Per Product	10000000	100	100/NOISE	dBm

FCC Part 15C All 50Hz UNII and BTS Spurious Emissions with Averaged Scan TST-30915-24 Mar 2014

Rev: 9.5.09 May 2014

CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 11.49	29.5	PK	38	-22.3	0	45.2	-	-	74	-28.8	-	-	0-360	202	V
1	1.766	33.99	PK	29.8	-34	0	29.79	-	-	-	-	68.2	-38.41	0-360	202	H
2	1.868	32.97	PK	30.8	-33.3	0	30.47	-	-	-	-	68.2	-37.73	0-360	202	H
3	3.133	32.16	PK	32.8	-31.7	0	33.26	-	-	-	-	68.2	-34.94	0-360	99	H
4	6.637	29.94	PK	35.7	-28.4	0	37.24	-	-	-	-	68.2	-30.96	0-360	202	H
5	9.893	30.44	PK	37	-24	0	43.44	-	-	-	-	68.2	-24.76	0-360	202	V

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

PK - Peak detector

Radiated Emissions

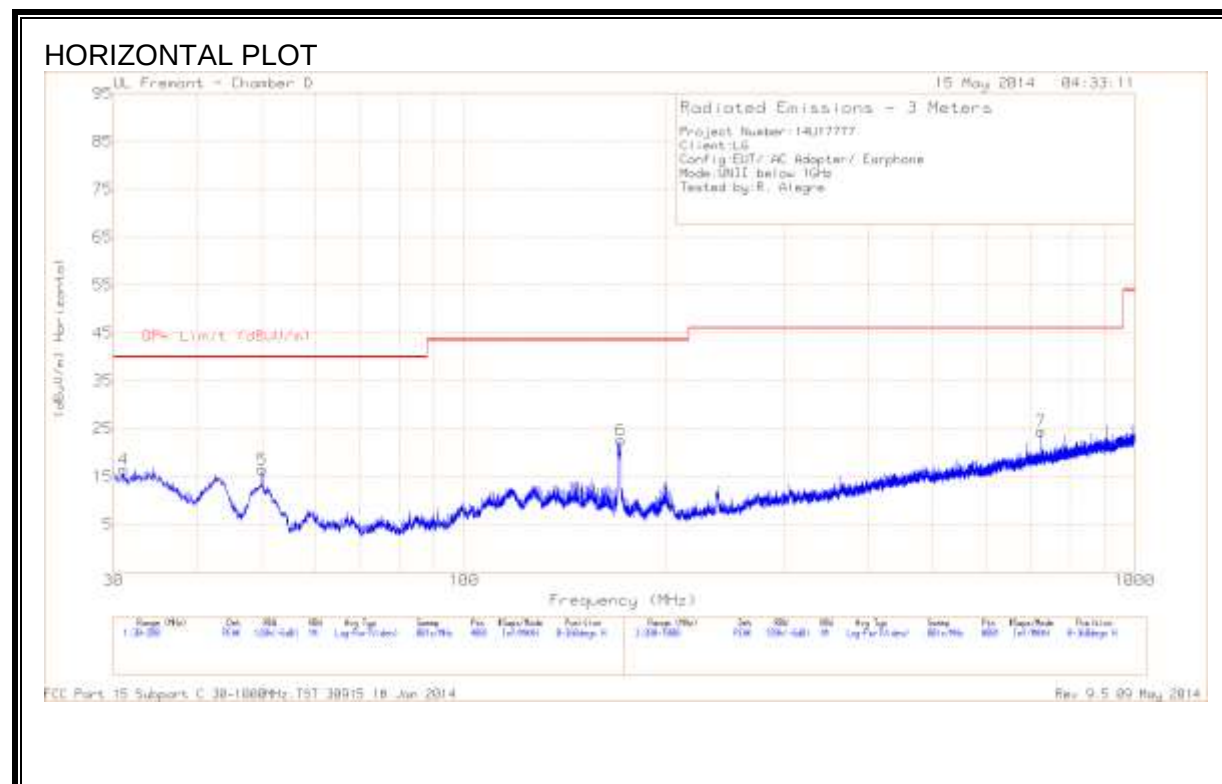
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 11.49	36.73	PK2	38	-22.3	0	52.43	-	-	74	-21.57	-	-	259	193	V
* 11.49	27.64	MAV1	38	-22.3	.2	43.54	54	-10.46	-	-	-	-	259	193	V

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

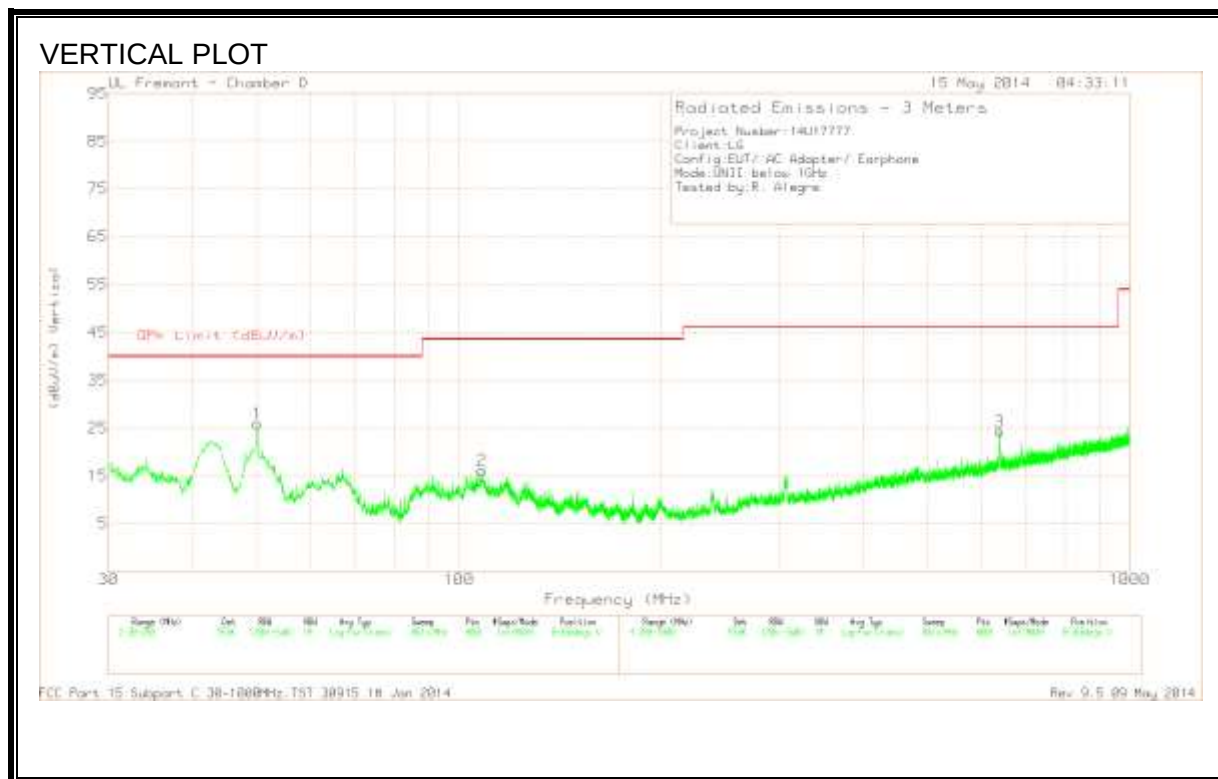
PK2 - KDB558074 Method: Maximum Peak

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

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



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



Worst Case Data

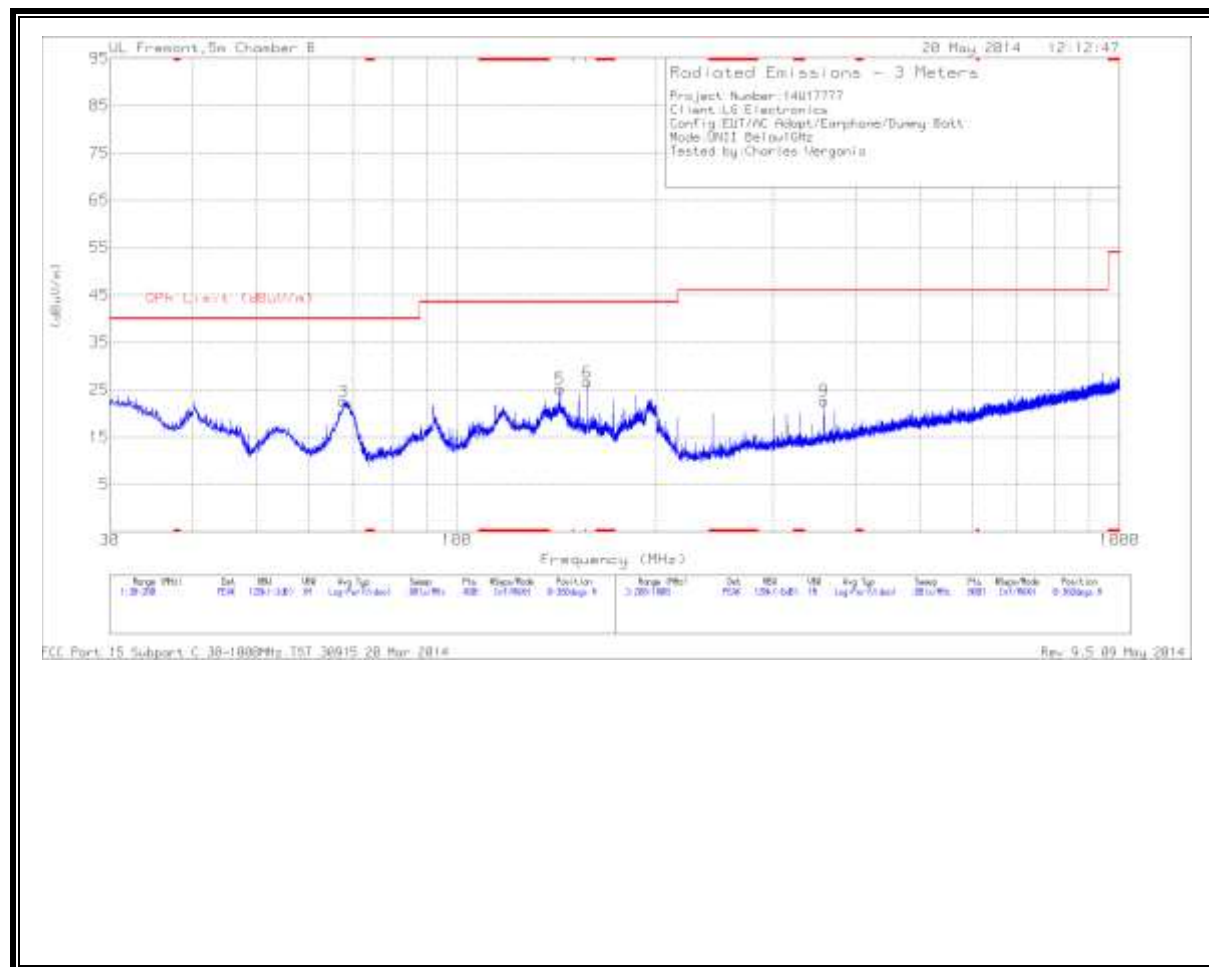
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 171.0575	41.77	PK	11.7	-30.8	22.67	43.52	-20.85	0-360	100	H
2	* 108.2425	34.81	PK	12.3	-30.9	16.21	43.52	-27.31	0-360	100	V
4	31.0625	27.35	PK	20.7	-31.6	16.45	40	-23.55	0-360	200	H
1	49.975	49.44	PK	7.9	-31.3	26.04	40	-13.96	0-360	100	V
5	49.9963	39.81	PK	7.9	-31.3	16.41	40	-23.59	0-360	400	H
3	640	33.88	PK	19.8	-29.4	24.28	46.02	-21.74	0-360	102	V
7	725.6	33.19	PK	20.5	-29.2	24.49	46.02	-21.53	0-360	200	H

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

PK - Peak detector

WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH SMART COVER

HORIZONTAL



UL Present, 5m Chamber B 20 May 2014 12:12:47

Radiated Emissions - 3 Meters
 Project Number: 14017777
 Client: LG Electronics
 Config: EUT/AC Adapt/Earphone/Dummy Bolt
 Mode: ON11 Below 1GHz
 Tested by: Charles Vergonia

Y-axis: Emissions (uV/m)
 X-axis: Frequency (MHz)

Limit: 40 uV/m (DPR) (14017777) (180MHz)

Graph shows Emissions (uV/m) vs Frequency (MHz). The limit is 40 uV/m. The graph shows a green line representing the emission level, which is mostly below the 40 uV/m limit line. The graph is titled 'Radiated Emissions - 3 Meters' and includes project details like Project Number 14017777, Client LG Electronics, and Config EUT/AC Adapt/Earphone/Dummy Bolt.

Range (MHz)	Set	RB	MR	Avg Sp	Sweep	PL	Repeatable	Position	Range (MHz)	Set	RB	MR	Avg Sp	Sweep	PL	Repeatable	Position
30-180	100	120	140	15	Log Freq	100	100	0.000000	180-1000	100	120	140	15	Log Freq	100	100	0.000000

FCC Part 15 Subpart C, 30-1000MHz TST 30915 20 Mar 2014 Rev. 9.5.09 May 2014

CHANNEL DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	* 243.4	40.23	PK	11.7	-26.4	25.53	46.02	-20.49	0-360	200	V
1	40.1575	41.68	PK	13.8	-28.7	26.78	40	-13.22	0-360	101	V
2	52.7375	45.82	PK	7.4	-28.6	24.62	40	-15.38	0-360	101	V
3	67.5275	43	PK	8	-28.4	22.6	40	-17.4	0-360	300	H
4	92.305	45.86	PK	8.2	-28.1	25.96	43.52	-17.56	0-360	101	V
5	143.22	40.07	PK	12.7	-27.5	25.27	43.52	-18.25	0-360	200	H
6	157.5	41.8	PK	12.2	-27.4	26.6	43.52	-16.92	0-360	200	H
7	214.8	39.5	PK	10.6	-26.8	23.3	43.52	-20.22	0-360	200	V
9	357.9	33.93	PK	14.6	-25.8	22.73	46.02	-23.29	0-360	200	H

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

PK - Peak detector