



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-247 ISSUE 1**

C2PC TEST REPORT

FOR

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

MODEL NUMBER: LG-H790, LGH790, H790

**FCC ID: ZNFH790
IC: 2703C-H790**

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: CDMA/GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n/ac & NFC
MODEL: LG-H790 C2PC
SERIAL NUMBER: Conducted (21SE0), Radiated (21SDP)
DATE TESTED: August 17 – 31, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-247 Issue 1	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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

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

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2009 for FCC and ANSI C63.10-2013 for IC, RSS-GEN Issue 4, and RSS-247 Issue 1.

Deviation from ANSI C63.10-2009:

Radiated spurious emission above 1GHz was performed with the EUT elevated at 1.5m instead of 0.8m. 1.5m is the required height in ANSI C63.10:2013 as referenced by RSS GEN issue 4.

3. FACILITIES AND ACCREDITATION

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

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

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

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

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

This EUT is a CDMA/GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n/ac & 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)
2412 - 2462	802.11b	20.56	113.76
2412 - 2462	802.11g	18.01	63.24
2412 - 2462	802.11n HT20	17.61	57.68

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIF (Planar Inverted F) antenna, with a maximum gain of -0.05 dBi and -3.30 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission below 1GHz 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 Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

SISO and MIMO modes:

Radiated band edge and harmonics spurious emission preliminary investigation showed that MIMO was worst case mode, therefore only MIMO was tested for these modes.

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

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n/ac HT20mode: MCS0

All conducted testing was performed in n-mode only for HT20, which covers ac-mode testing.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-N04WS	SA560000030	N/A
Earphone	LG	-	-	N/A

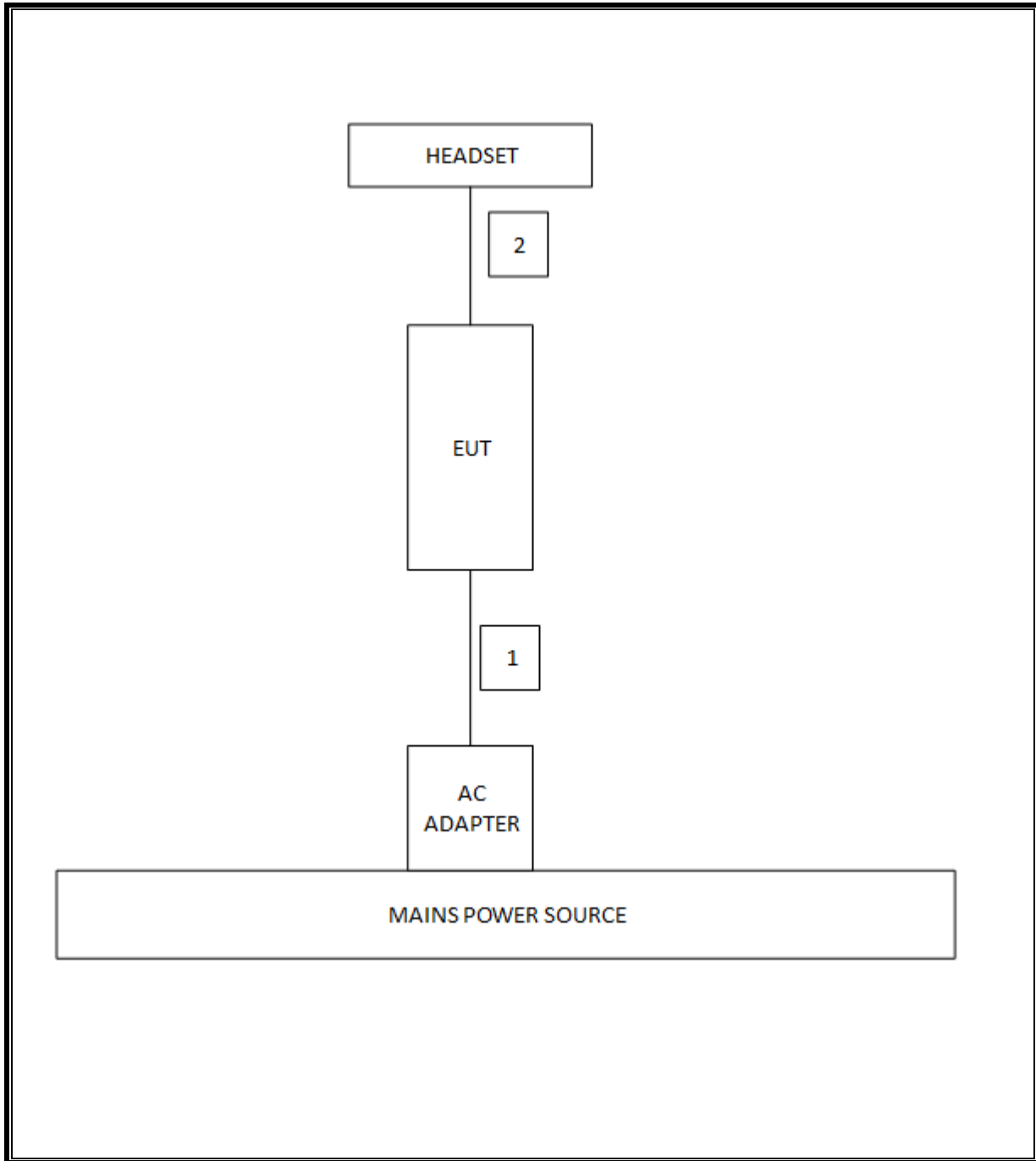
I/O CABLES

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	1m	N/A

TEST SETUP

The EUT is a stand-alone unit during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/15
Spectrum Analyzer,9KHz-40GHz	HP	8564E	C00986	04/01/16
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/16
Antenna, Horn,18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/16
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/16
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/16
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/16
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	T404	06/29/16
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR
RF Preamplifier, 1GHz - 40GHz	Miteq	NSP4000-SP2	C00990	08/20/16
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/16
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/16
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/16
Radiated Software	UL	UL EMC	Ver 9.5, Jul 22, 2014	
Conducted Software	UL	UL EMC	Ver 9.5, May 17 2012	
CLT Software	UL	UL RF	Ver 1.0, Feb 2 2015	
Antenna Port Software	UL	UL RF	Ver 2.1.1.1, Jan 20 2015	

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r03: Measurement Procedure AVGPM-G is used for power and AVGPS-3 is used for power spectral density.

Unwanted emissions within Restricted Bands are measured using traditional radiated procedures.

Band edge emissions within Restricted Bands are measured using RMS with duty cycle factor offset method.

8. SUMMARY TABLE

C2PC reason: Please see LG-H790 change note for details.

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-247 5.2.1	Occupied Band width (6dB)	>500KHz	Conducted	Pass	8.06 MHz
2.1051, 15.247 (d)	RSS-247 5.5	Band Edge / Conducted Spurious Emission	-30dBc		Pass	-28.69 dBm
15.247	RSS-247 5.4.4	TX conducted output power	<30dBm		Pass	20.56 dBm
15.247	RSS-247 5.2.2	PSD	<8dBm		Pass	-0.63 dBm
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10	Radiated	Pass	See original report
15.205, 15.209	RSS-GEN 8.9/7	Radiated Spurious Emission	< 54dBuV/m		Pass	47.89 dBuV/m

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

PROCEDURE

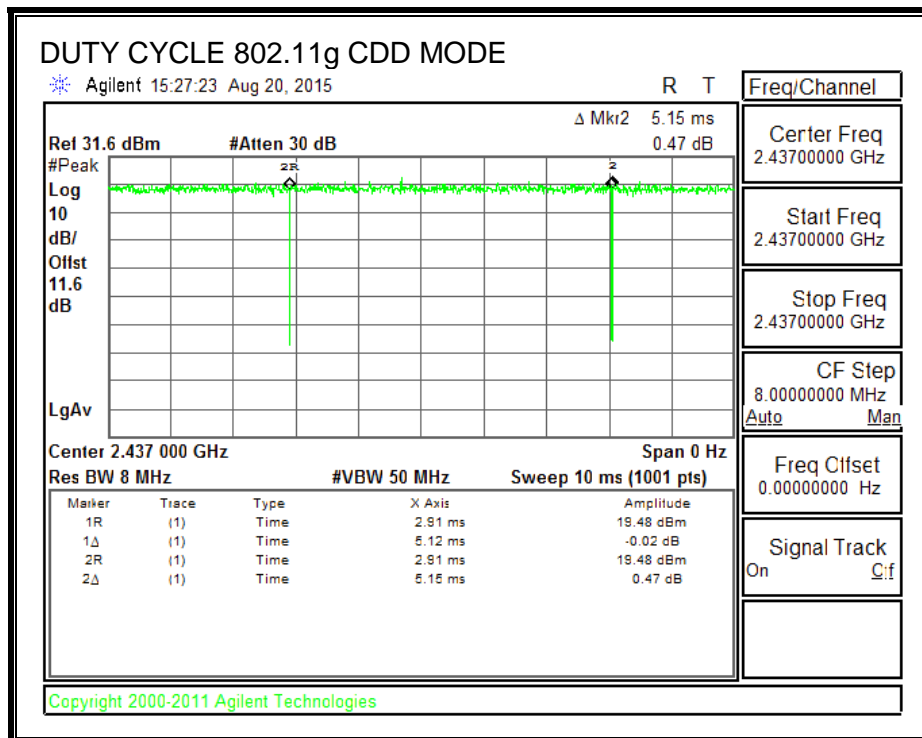
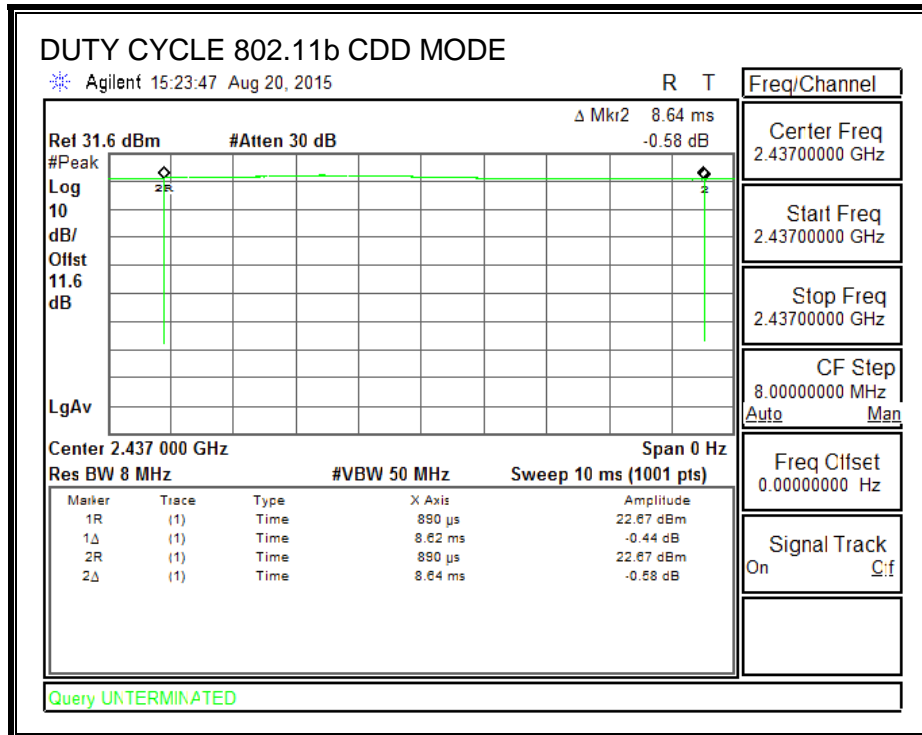
KDB 558074 Zero-Span Spectrum Analyzer Method.

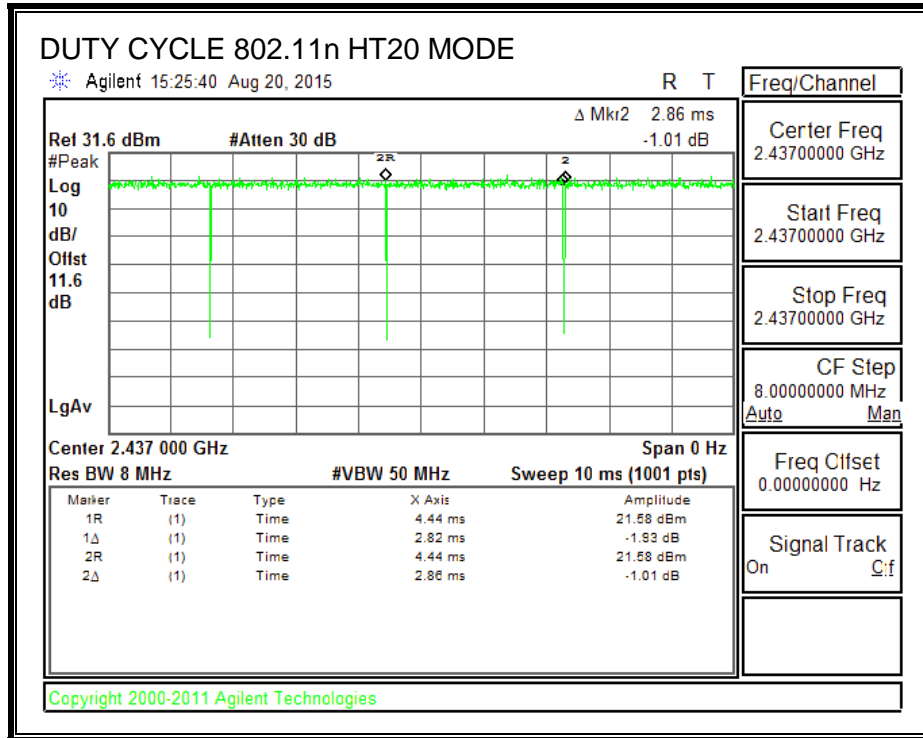
9.1.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.11b CDD	8.620	8.640	0.998	99.77%	0.00	0.010
802.11g CDD	5.120	5.150	0.994	99.42%	0.00	0.010
802.11n HT20 CDD	2.820	2.860	0.986	98.60%	0.00	0.010

9.1.1. DUTY CYCLE PLOTS

2.4 GHz BAND





9.2. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-247 5.2.1

The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

Reference to KDB 558074 D01 DTS Meas Guidance v03r03: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth CHAIN 0(MHz)	6 dB Bandwidth CHAIN 1(MHz)	Minimum Limit (MHz)
Low	2412	8.060	8.073	0.5
Mid	2437	8.073	8.593	0.5
High	2462	8.073	8.073	0.5
Worst		8.060	8.073	

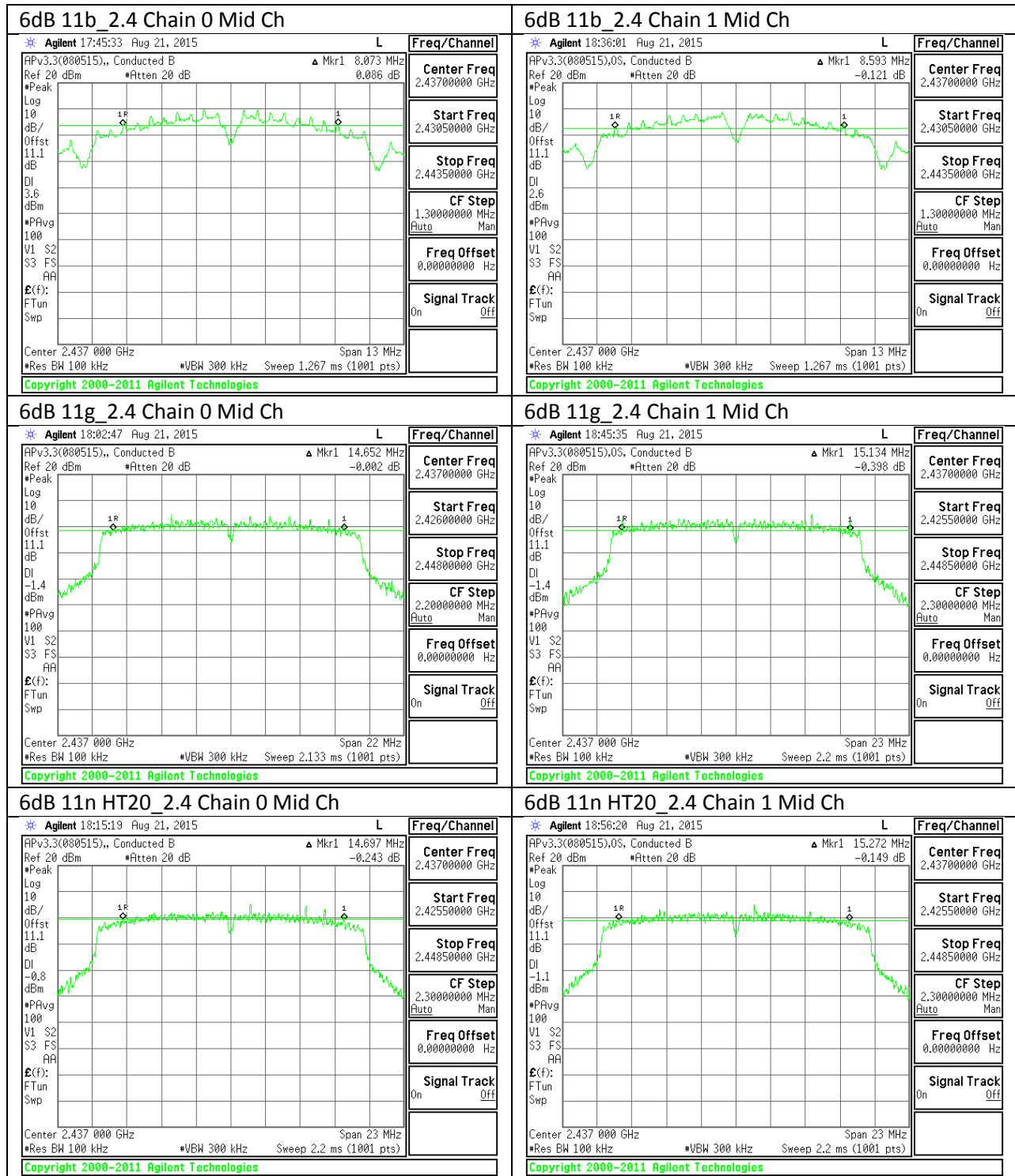
9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth CHAIN 0(MHz)	6 dB Bandwidth CHAIN 1(MHz)	Minimum Limit (MHz)
Low	2412	14.835	15.042	0.5
Mid	2437	14.652	15.134	0.5
High	2462	14.697	15.111	0.5
Worst		14.652	15.042	

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth CHAIN 0(MHz)	6 dB Bandwidth CHAIN 1(MHz)	Minimum Limit (MHz)
Low	2412	15.336	15.720	0.5
Mid	2437	14.697	15.272	0.5
High	2462	15.042	14.950	0.5
Worst		14.697	14.950	

9.2.4. 6 dB BANDWIDTH MID CH PLOTS



9.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

9.3.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth CHAIN 0(MHz)	99% Bandwidth CHAIN 1(MHz)
Low	2412	13.2536	13.1381
Mid	2437	12.9181	13.1532
High	2462	12.9625	13.0685

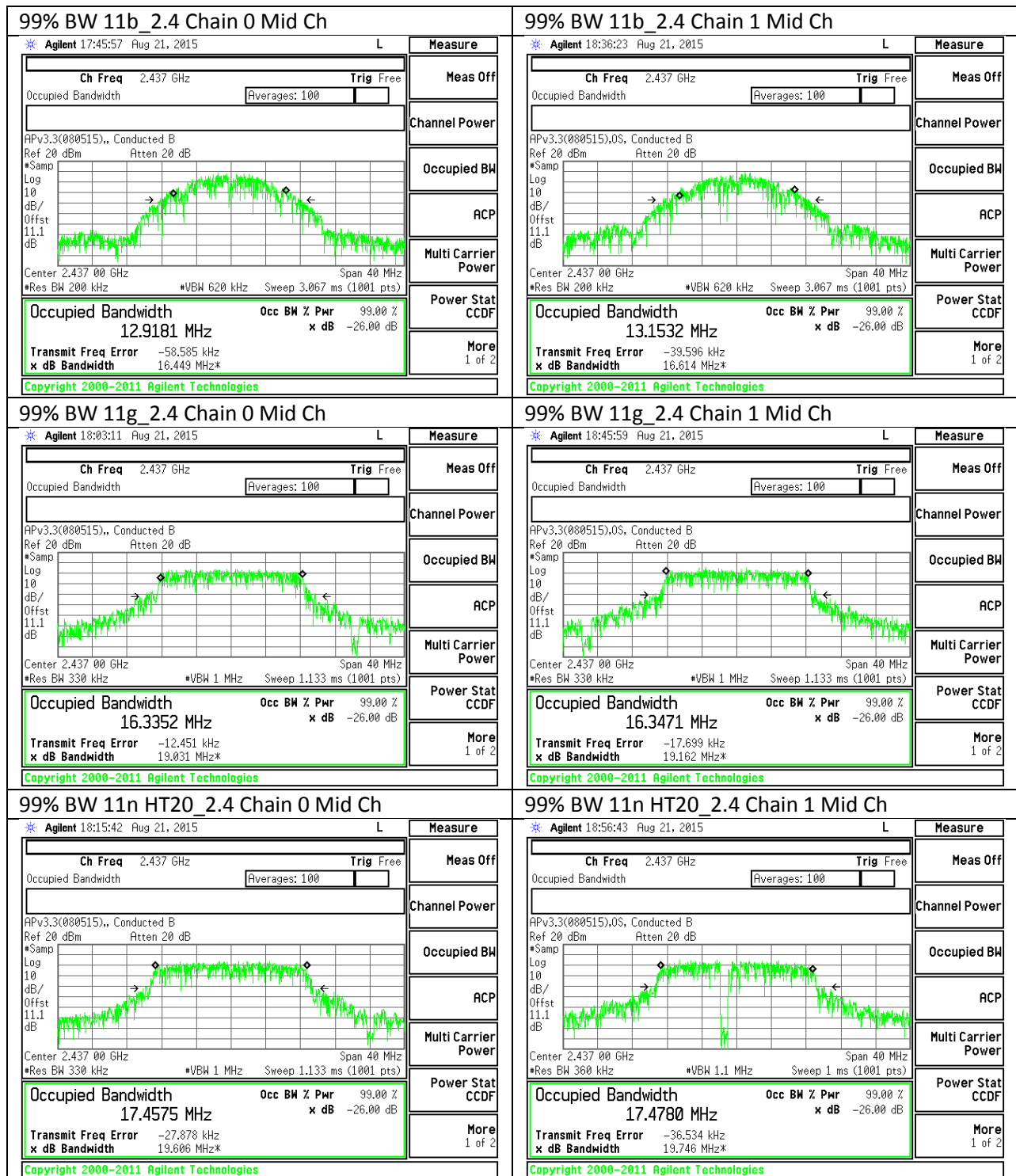
9.3.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth CHAIN 0(MHz)	99% Bandwidth CHAIN 1(MHz)
Low	2412	16.3439	16.3091
Mid	2437	16.3352	16.3471
High	2462	16.3310	16.3160

9.3.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth CHAIN 0(MHz)	99% Bandwidth CHAIN 1(MHz)
Low	2412	17.4972	17.4753
Mid	2437	17.4575	17.4780
High	2462	17.4712	17.4199

9.3.4. 99% BANDWIDTH MID CH PLOTS



9.4. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-247 5.4.4

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-0.05	-3.30	-1.38

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
-0.05	-3.30	1.49

RESULTS

9.4.1. 802.11b MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	-1.38	30.00	30	36	30.00
Mid	2437	-1.38	30.00	30	36	30.00
High	2462	-1.38	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	17.60	17.50	20.56	30.00	-9.44
Mid	2437	17.00	17.20	20.11	30.00	-9.89
High	2462	17.00	17.30	20.16	30.00	-9.84
Worst				20.56		

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	-1.38	30.00	30	36	30.00
Mid	2437	-1.38	30.00	30	36	30.00
High	2462	-1.38	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low	2412	14.20	14.30	17.26	30.00	-12.74
Mid	2437	15.00	15.00	18.01	30.00	-11.99
High	2462	13.80	14.20	17.01	30.00	-12.99
Worst				18.01		

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
Low	2412	-1.38	30.00	30	36	30.00
Mid	2437	-1.38	30.00	30	36	30.00
High	2462	-1.38	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low	2412	13.90	14.00	16.96	30.00	-13.04
Mid	2437	14.60	14.60	17.61	30.00	-12.39
High	2462	13.50	13.80	16.66	30.00	-13.34
Worst				17.61		

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

9.5. PSD

LIMITS

FCC §15.247

IC RSS-247 5.2.2

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-3.559	-3.720	-0.63	8.0	-8.6
Mid	2437	-3.959	-3.824	-0.88	8.0	-8.9
High	2462	-4.263	-3.535	-0.87	8.0	-8.9
Worst				-0.63		

9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-9.313	-9.385	-6.34	8.0	-14.3
Mid	2437	-8.934	-8.534	-5.72	8.0	-13.7
High	2462	-9.855	-9.533	-6.68	8.0	-14.7
Worst				-5.72		

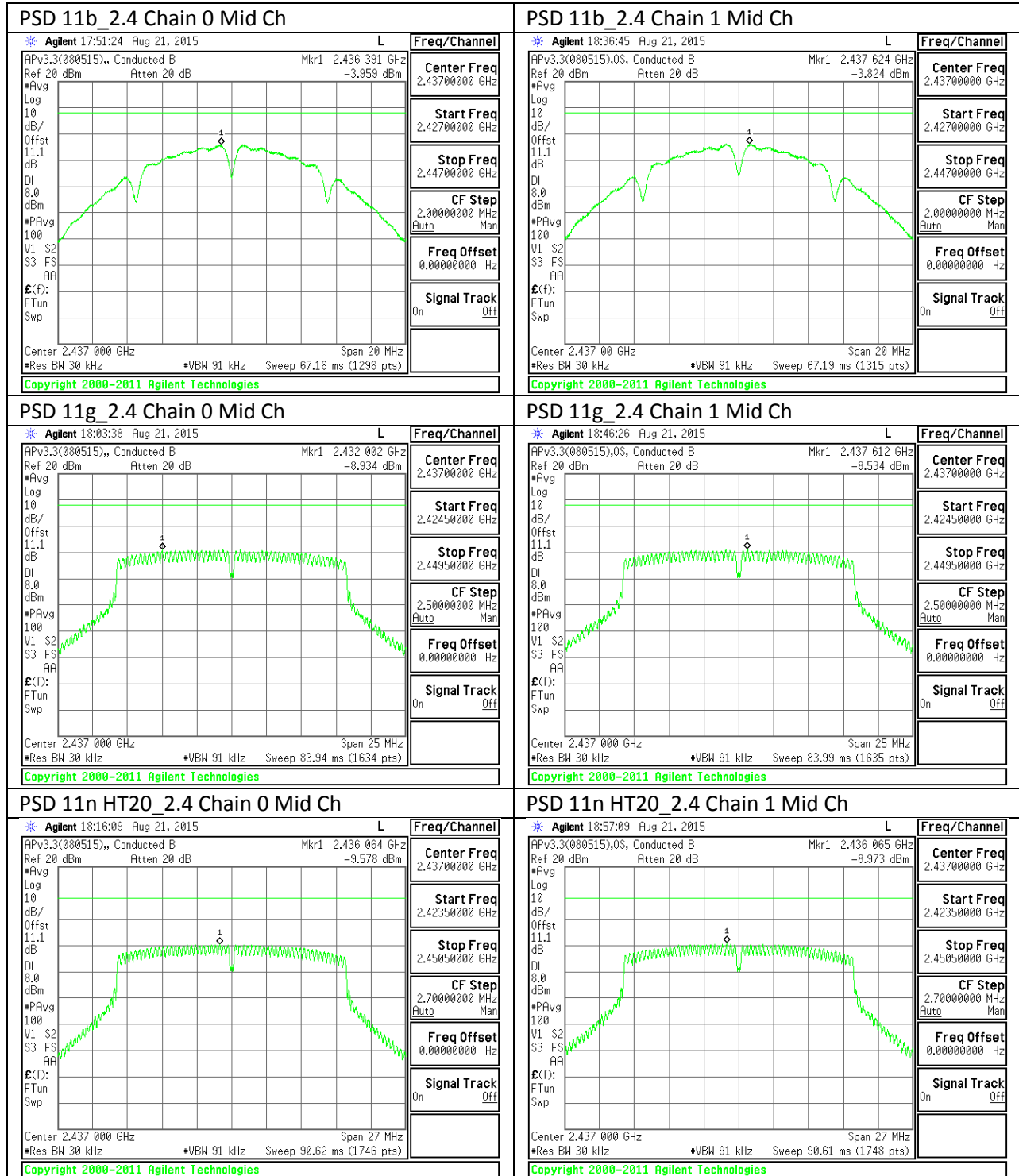
9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Total Corr'd PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-9.892	-9.762	-6.82	8.0	-14.8
Mid	2437	-9.578	-8.973	-6.25	8.0	-14.3
High	2462	-10.531	-10.030	-7.26	8.0	-15.3
Worst				-6.25		

9.5.4. PSD MID CH PLOTS



9.6. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-247 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

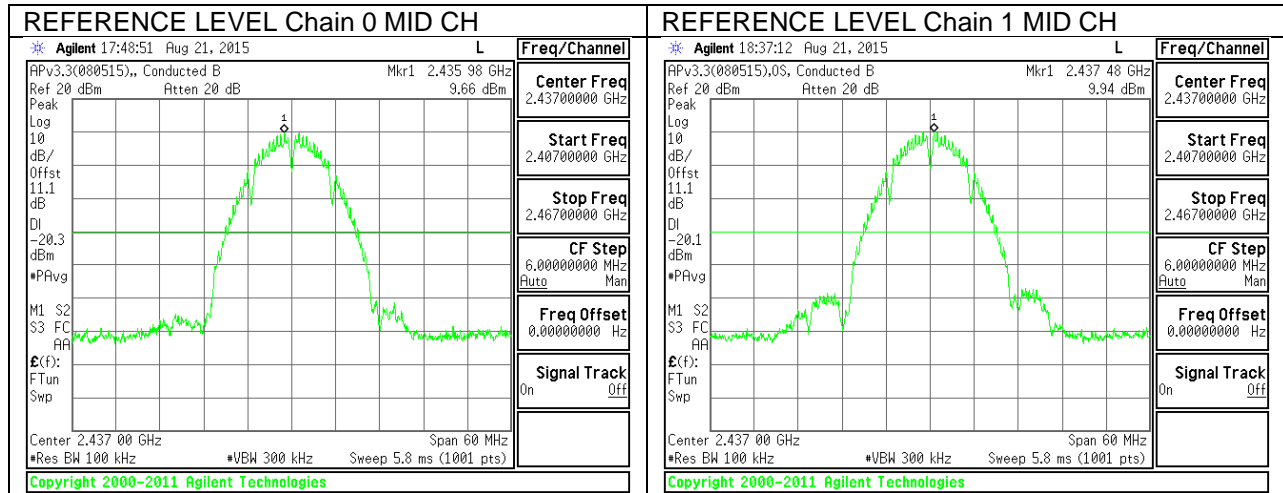
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

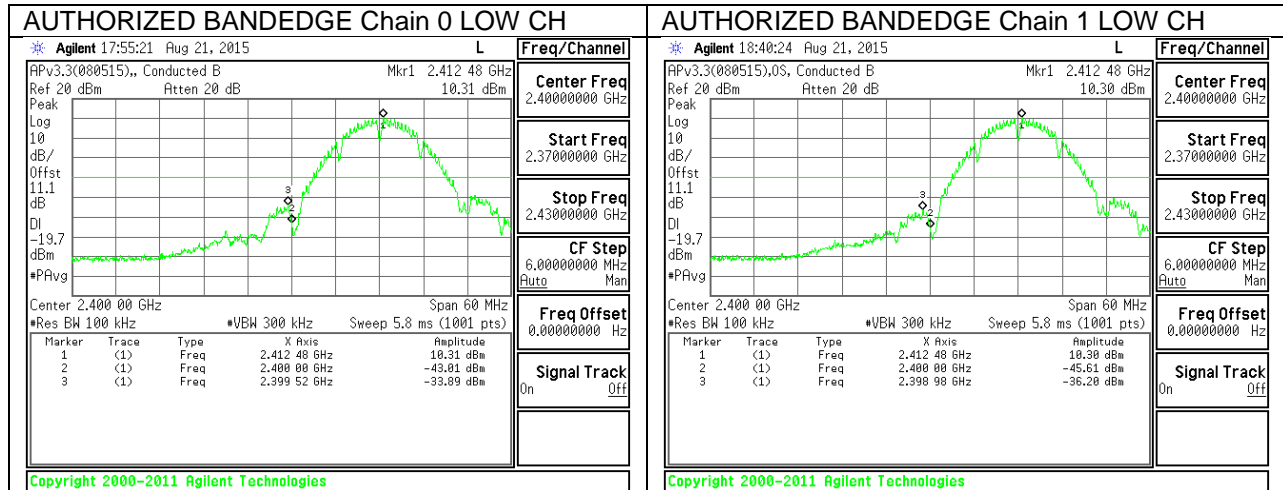
RESULTS

9.6.1. 802.11b MODE IN THE 2.4 GHz BAND

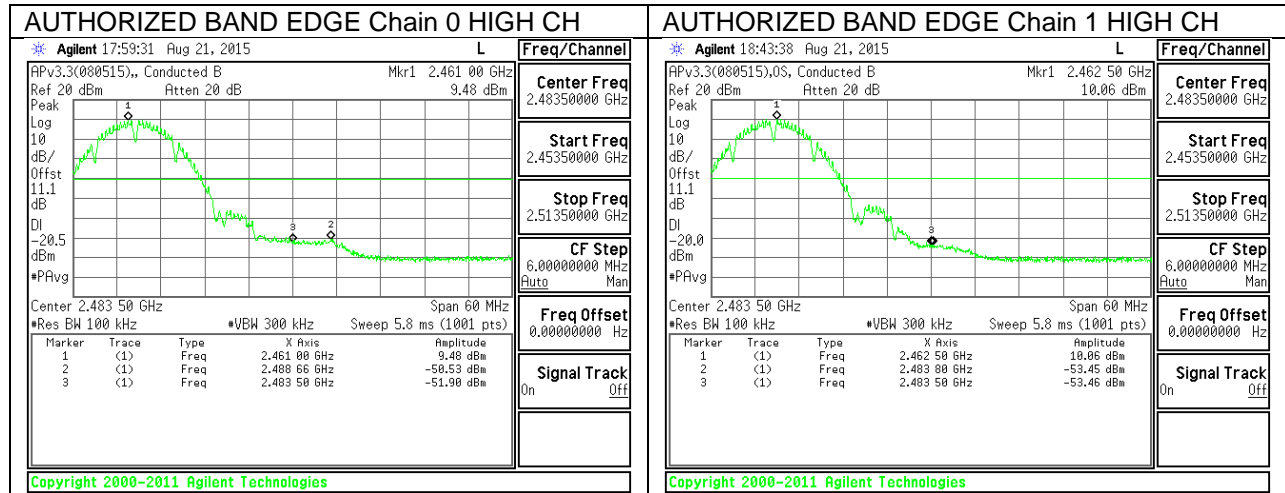
IN-BAND REFERENCE LEVEL



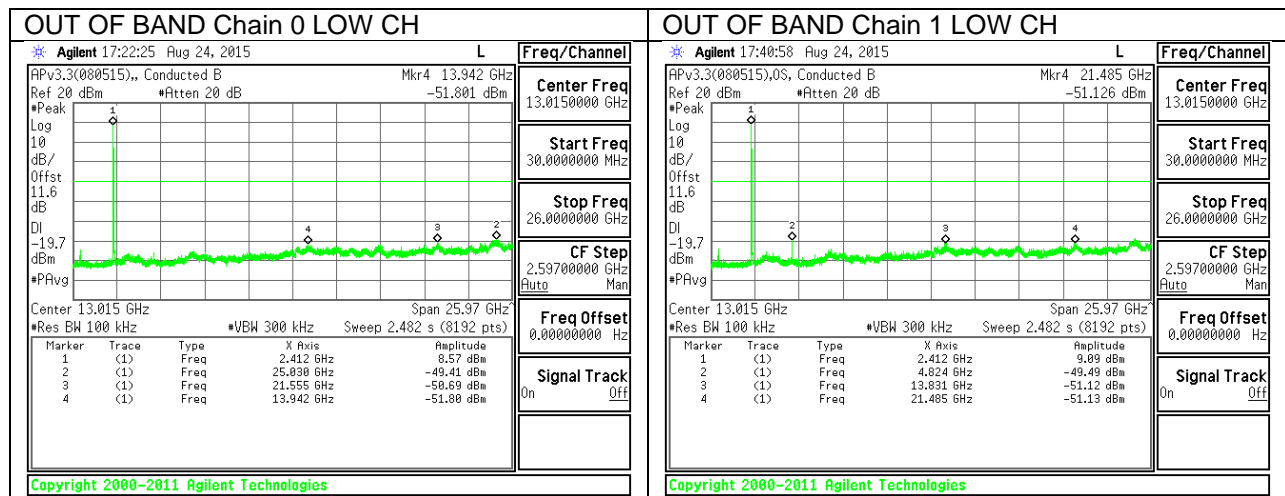
LOW CHANNEL BAND EDGE

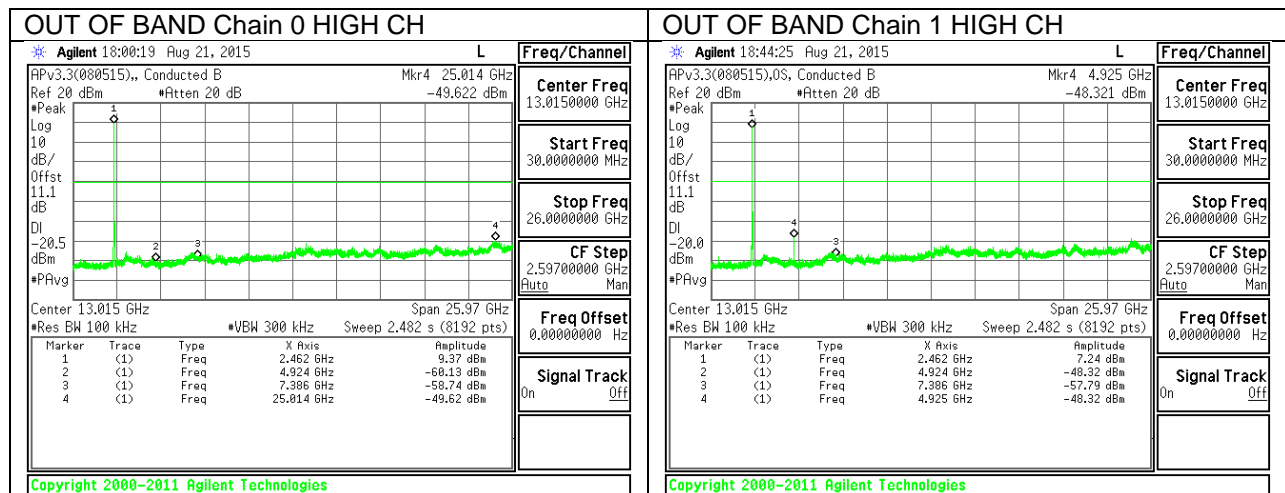
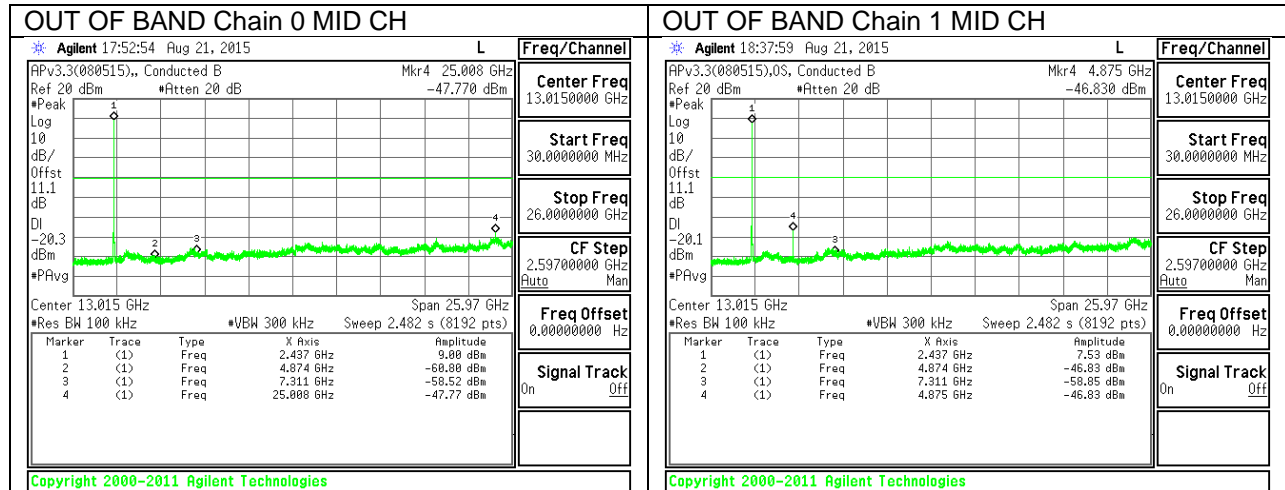


HIGH CHANNEL BAND EDGE



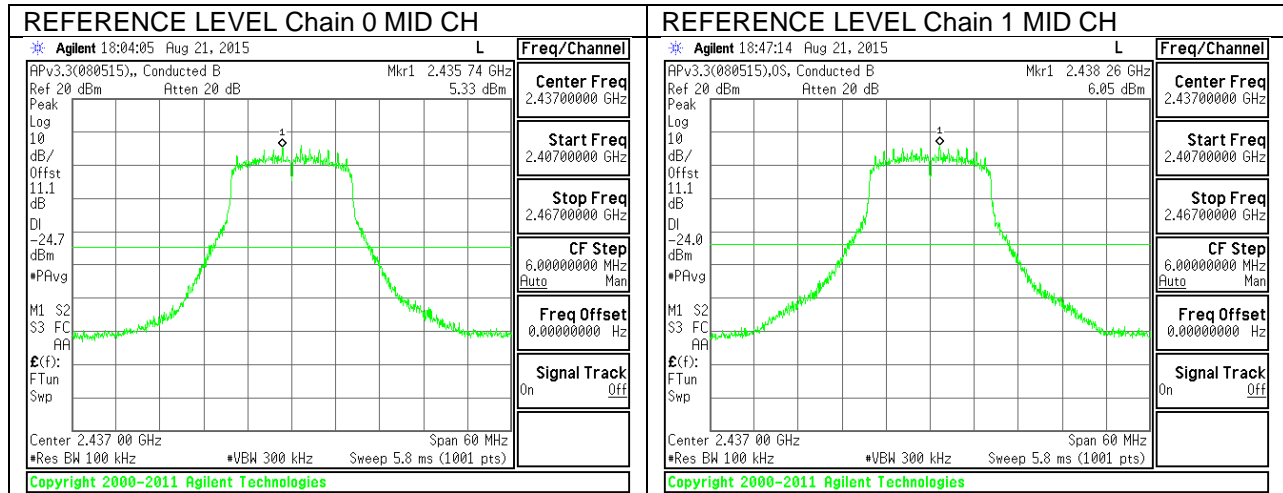
OUT-OF-BAND EMISSIONS



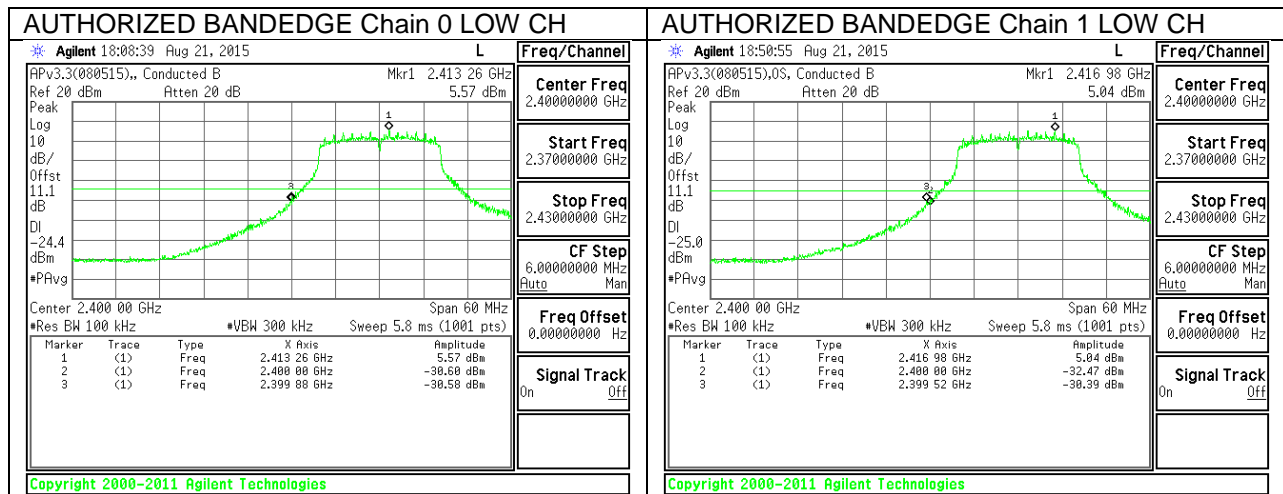


9.6.2. 802.11g MODE IN THE 2.4 GHz BAND

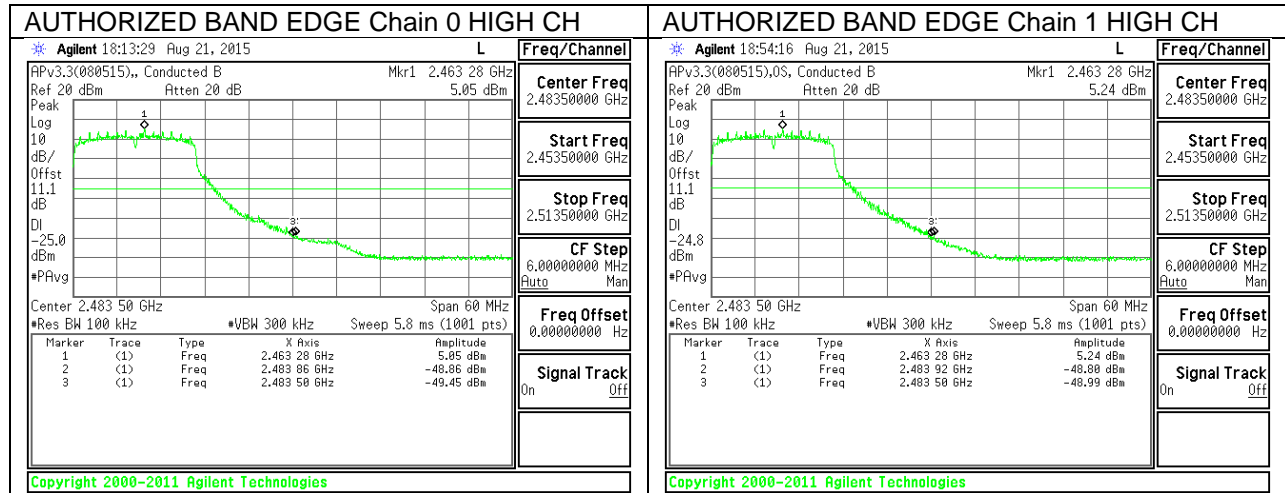
IN-BAND REFERENCE LEVEL



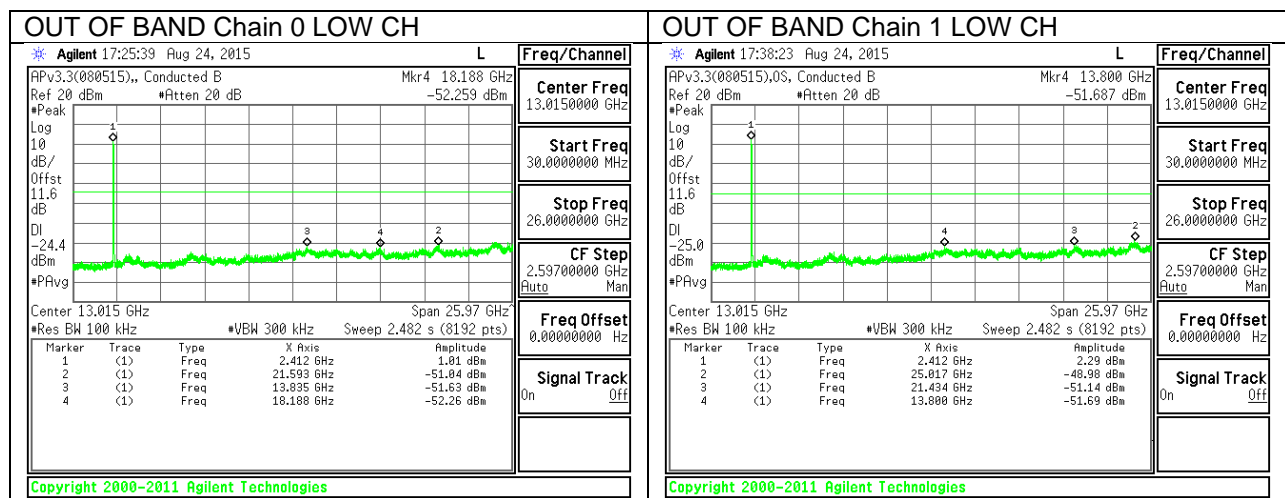
LOW CHANNEL BAND EDGE

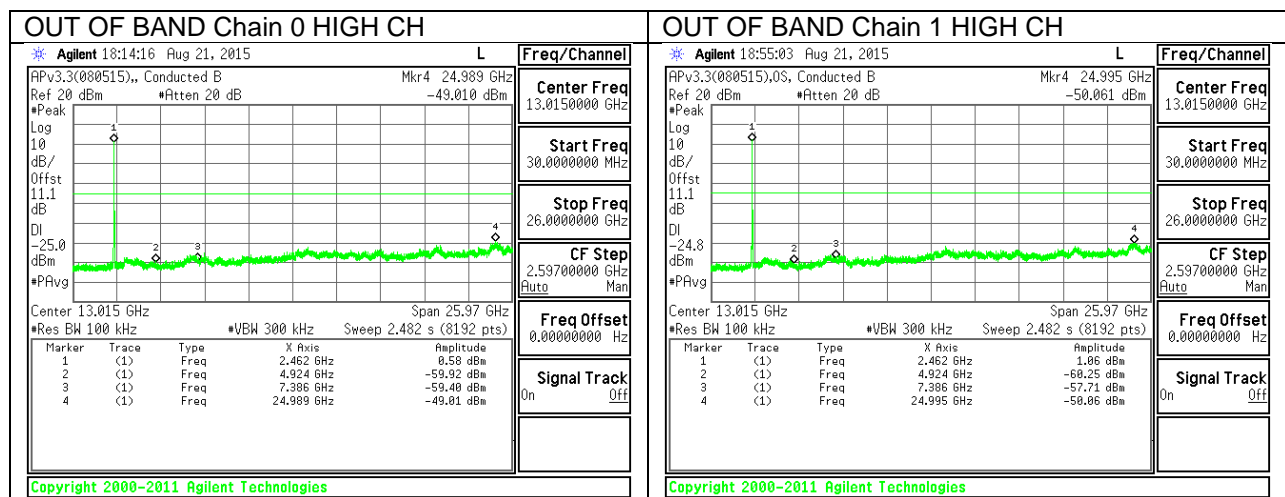
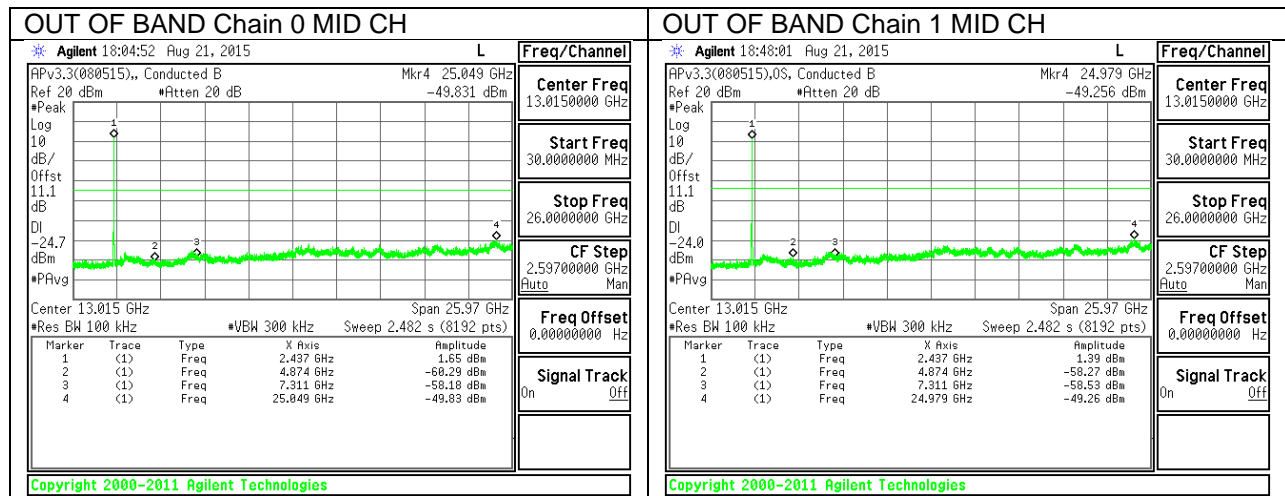


HIGH CHANNEL BAND EDGE



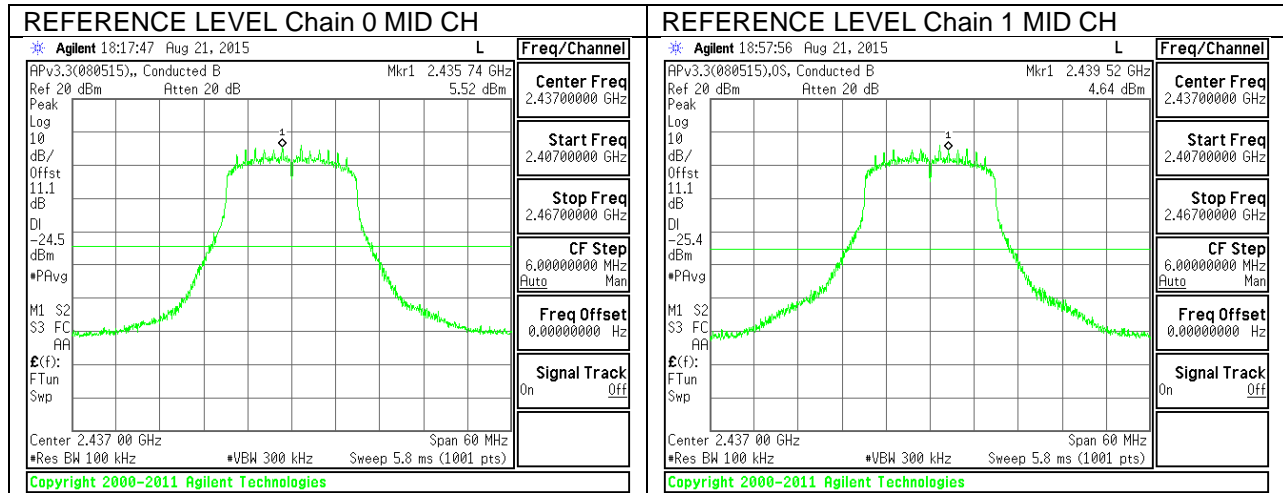
OUT-OF-BAND EMISSIONS



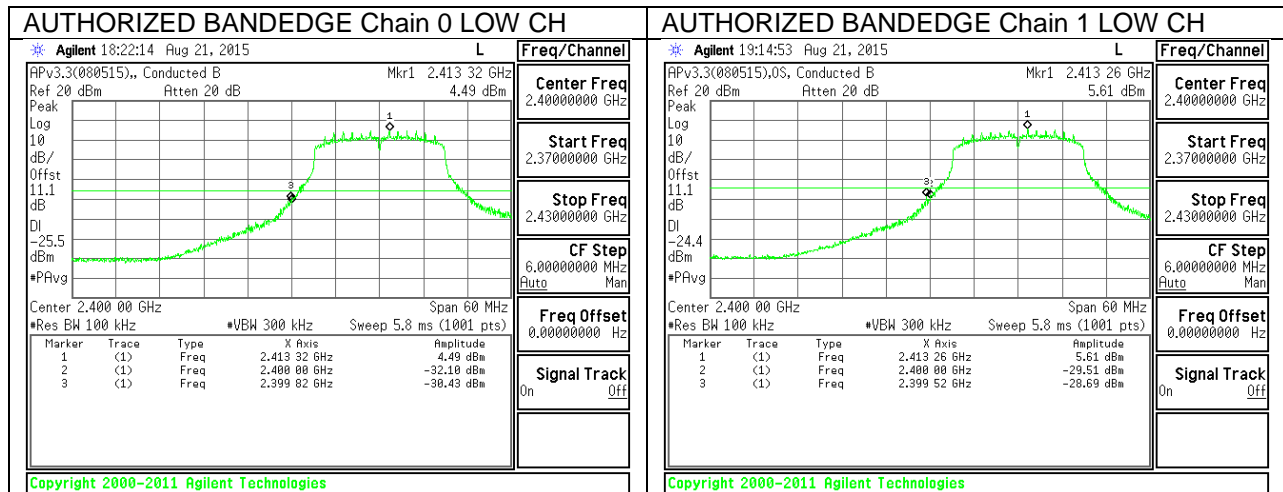


9.6.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

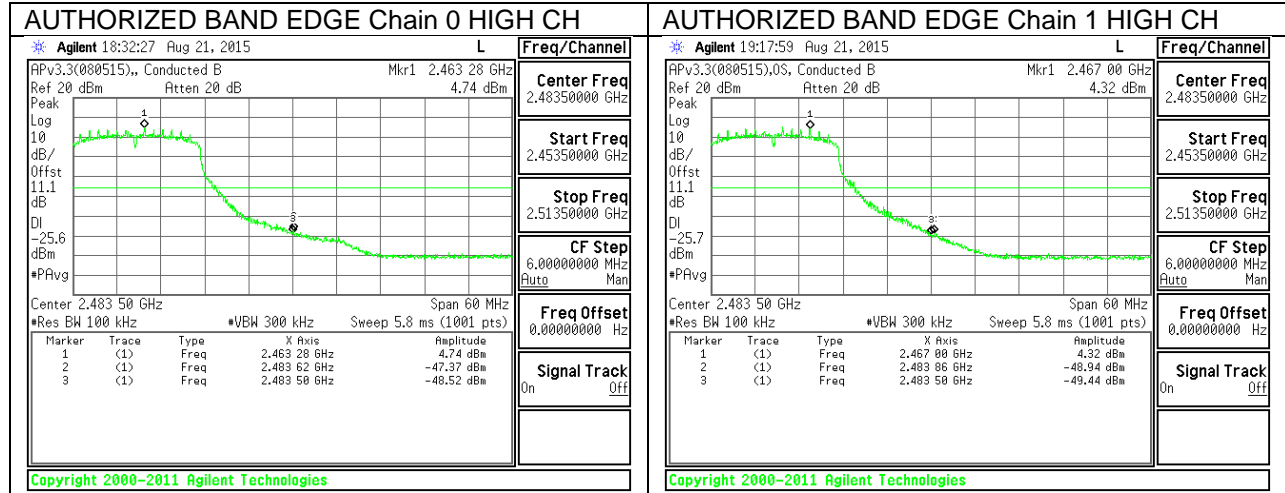
IN-BAND REFERENCE LEVEL



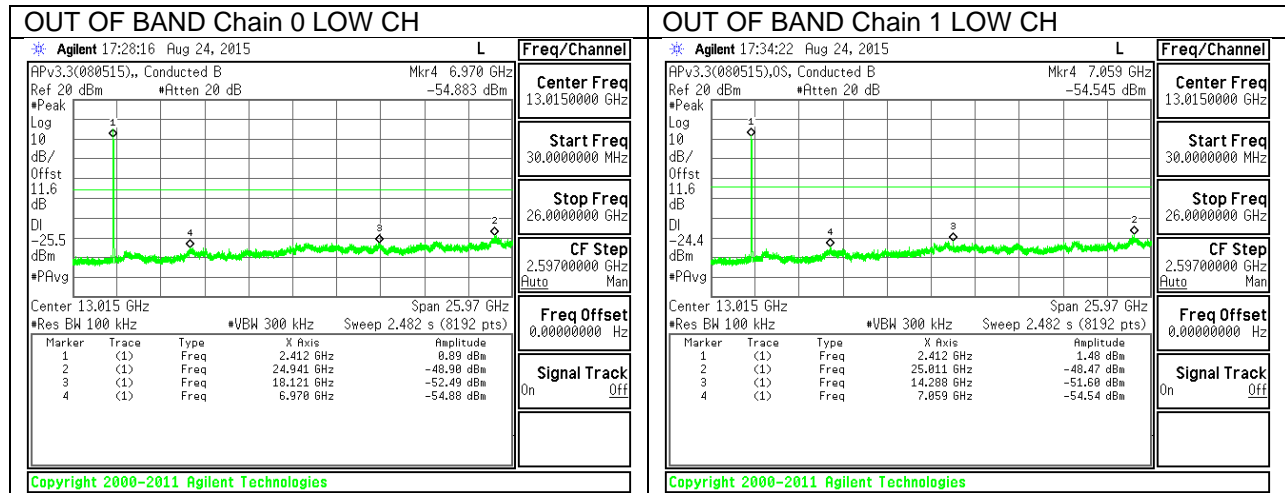
LOW CHANNEL BAND EDGE

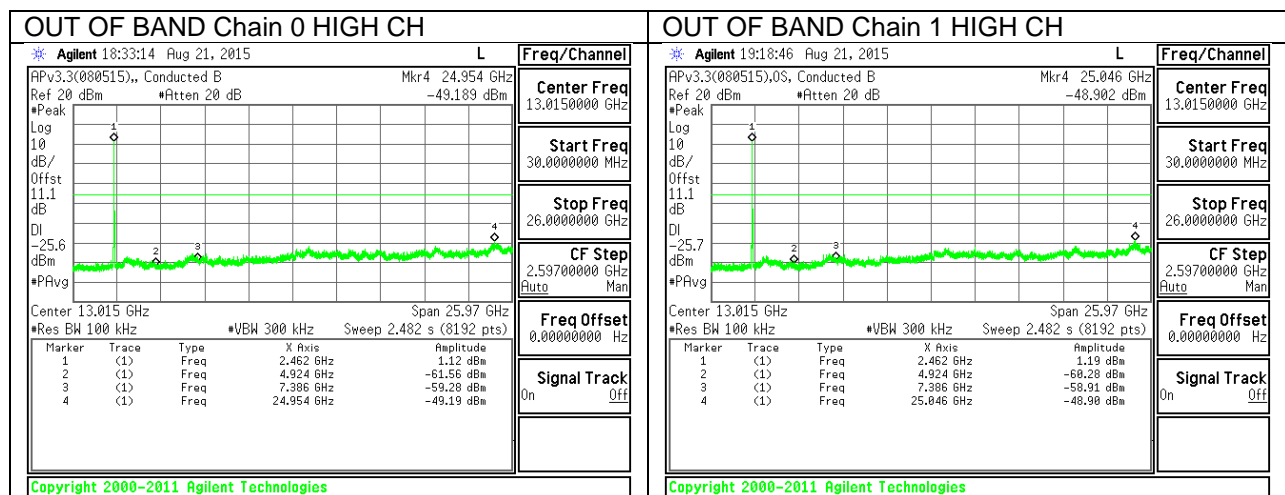
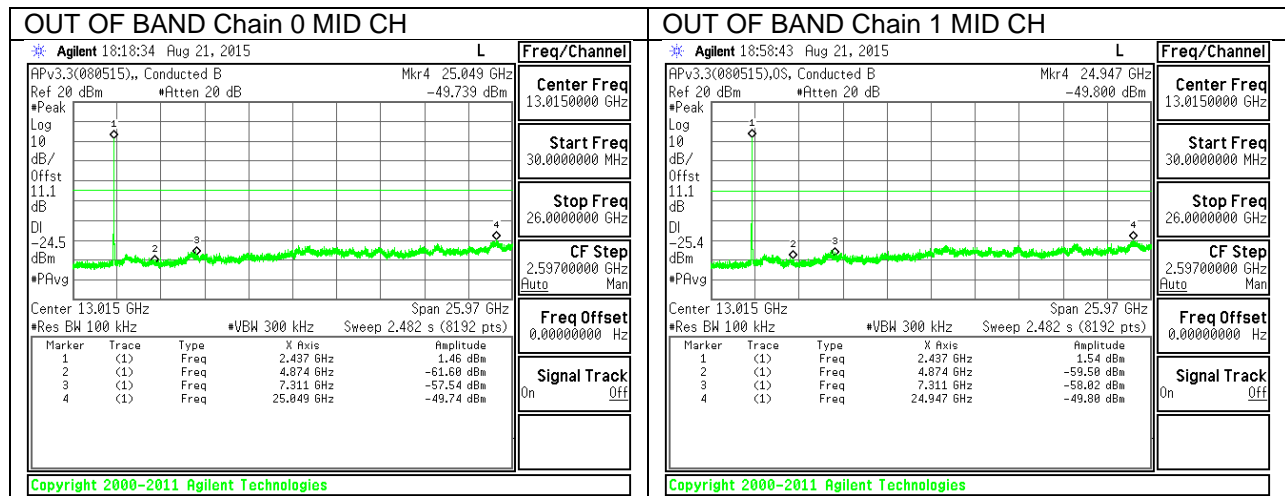


HIGH CHANNEL BAND EDGE



OUT-OF-BAND EMISSIONS





10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN Clause 8.9 (Transmitter)

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. The antenna to EUT distance is 3 meters.

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

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor= $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0 dB; HT20 mode = 0dB.

The spectrum from 30 MHz to 26 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.

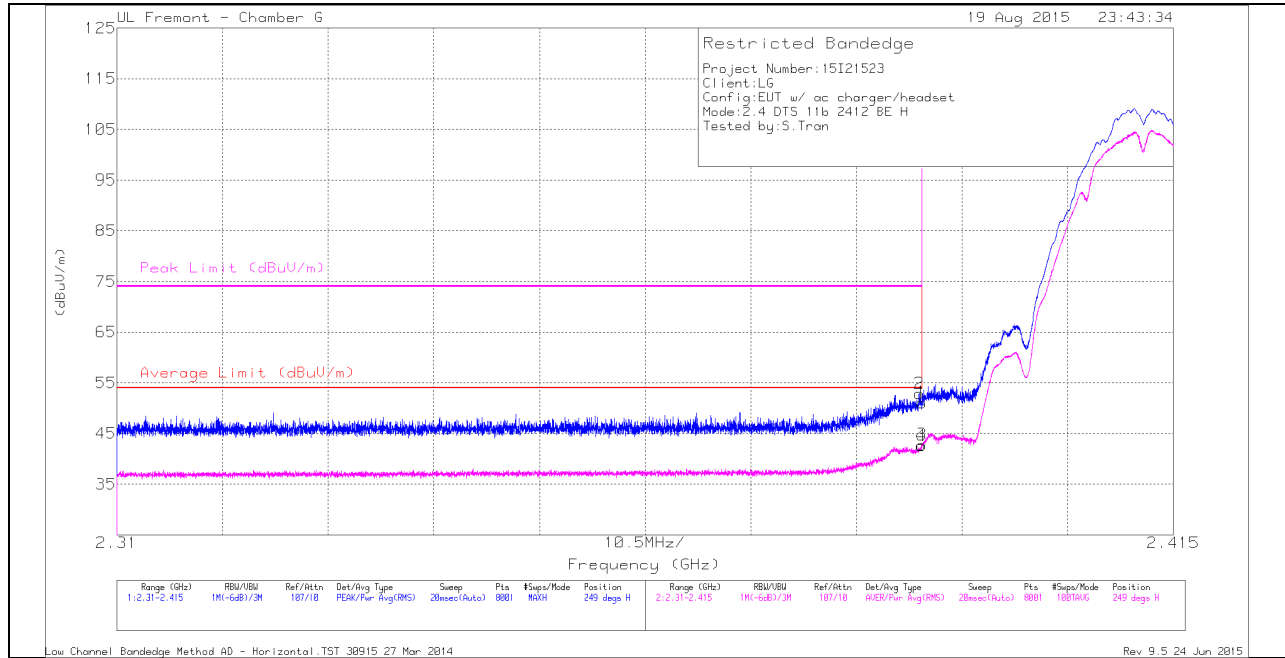
* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

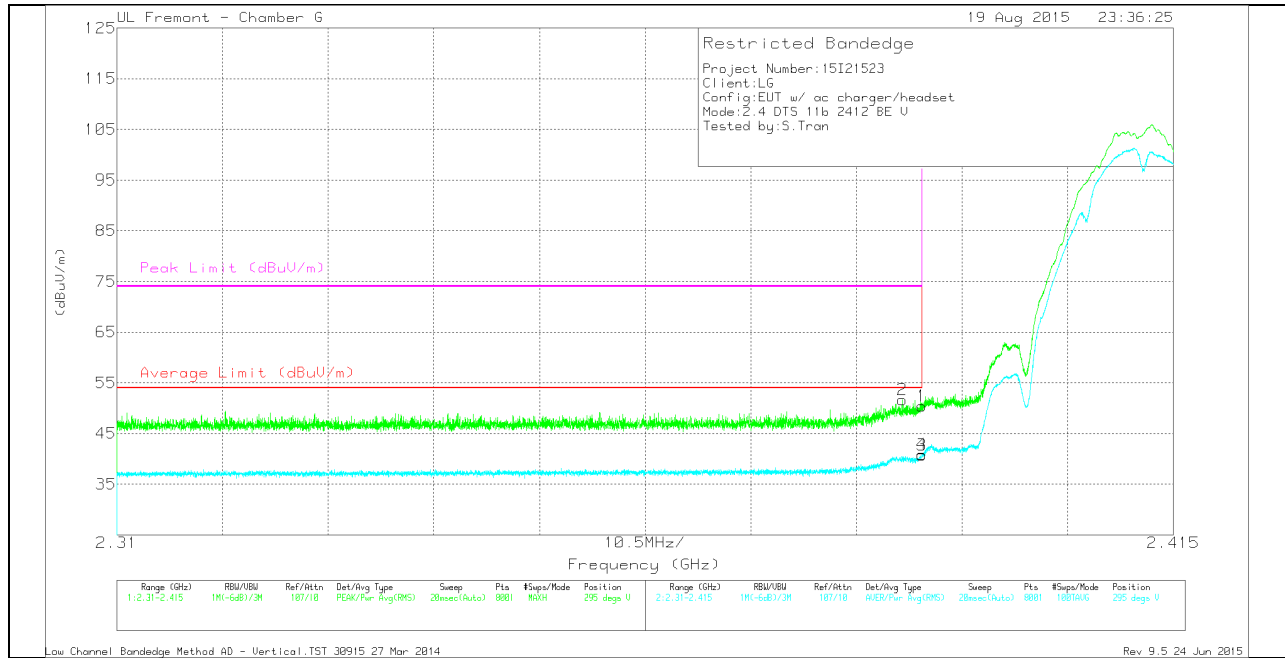
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.7	Pk	31.9	-24.5	51.1	-	-	74	-22.9	249	117	H
2	* 2.39	45.45	Pk	31.9	-24.5	52.85	-	-	74	-21.15	249	117	H
3	* 2.39	35.38	RMS	31.9	-24.5	42.78	54	-11.22	-	-	249	117	H
4	* 2.39	35.24	RMS	31.9	-24.5	42.64	54	-11.36	-	-	249	117	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.04	Pk	31.9	-24.5	50.44	-	-	74	-23.56	295	205	V
2	* 2.388	44.38	Pk	31.8	-24.5	51.68	-	-	74	-22.32	295	205	V
3	* 2.39	33.3	RMS	31.9	-24.5	40.7	54	-13.3	-	-	295	205	V
4	* 2.39	33.42	RMS	31.9	-24.5	40.82	54	-13.18	-	-	295	205	V

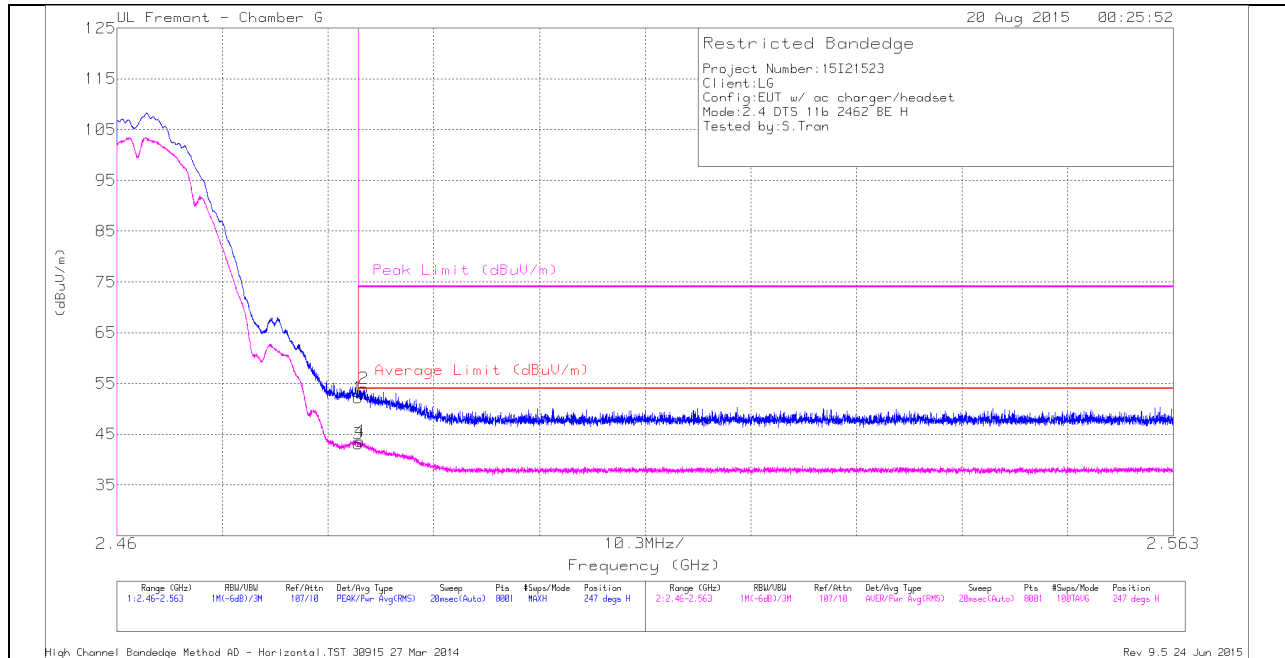
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

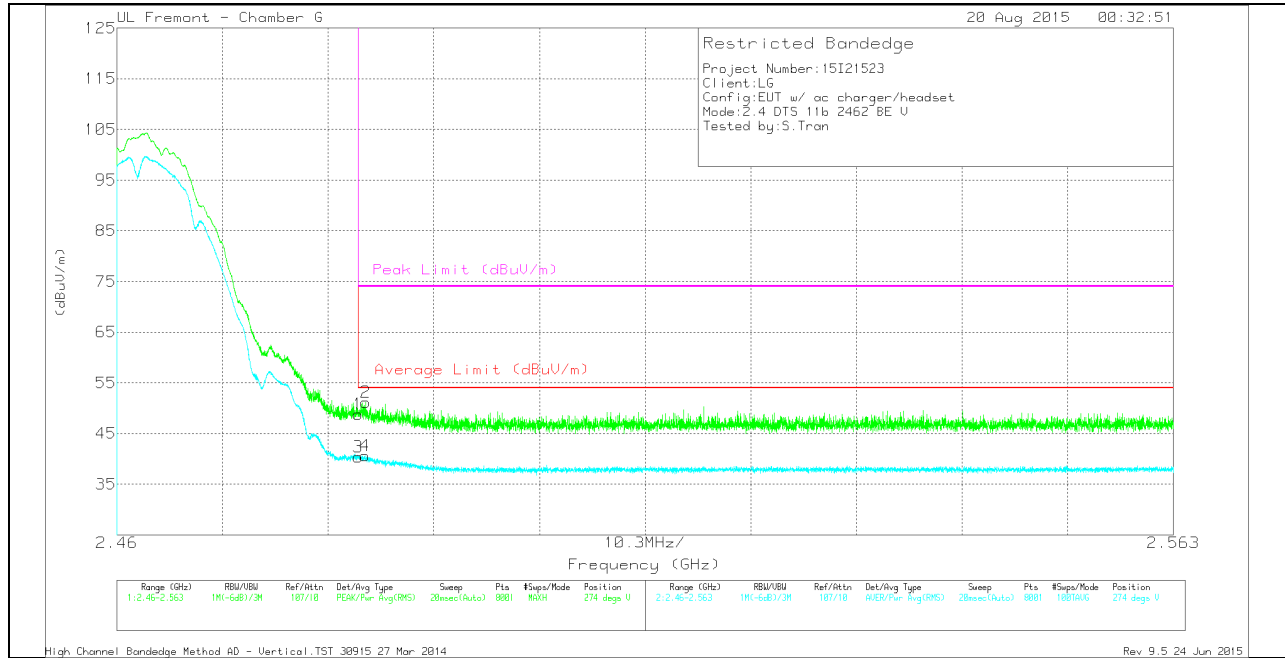
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.35	Pk	32.3	-24.5	52.15	-	-	74	-21.85	247	128	H
2	* 2.484	46.16	Pk	32.3	-24.5	53.96	-	-	74	-20.04	247	128	H
3	* 2.484	35.28	RMS	32.3	-24.5	43.08	54	-10.92	-	-	247	128	H
4	* 2.484	35.74	RMS	32.3	-24.5	43.54	54	-10.46	-	-	247	128	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.98	Pk	32.3	-24.5	48.78	-	-	74	-25.22	274	124	V
2	* 2.484	43.39	Pk	32.3	-24.5	51.19	-	-	74	-22.81	274	124	V
3	* 2.484	32.53	RMS	32.3	-24.5	40.33	54	-13.67	-	-	274	124	V
4	* 2.484	32.85	RMS	32.3	-24.5	40.65	54	-13.35	-	-	274	124	V

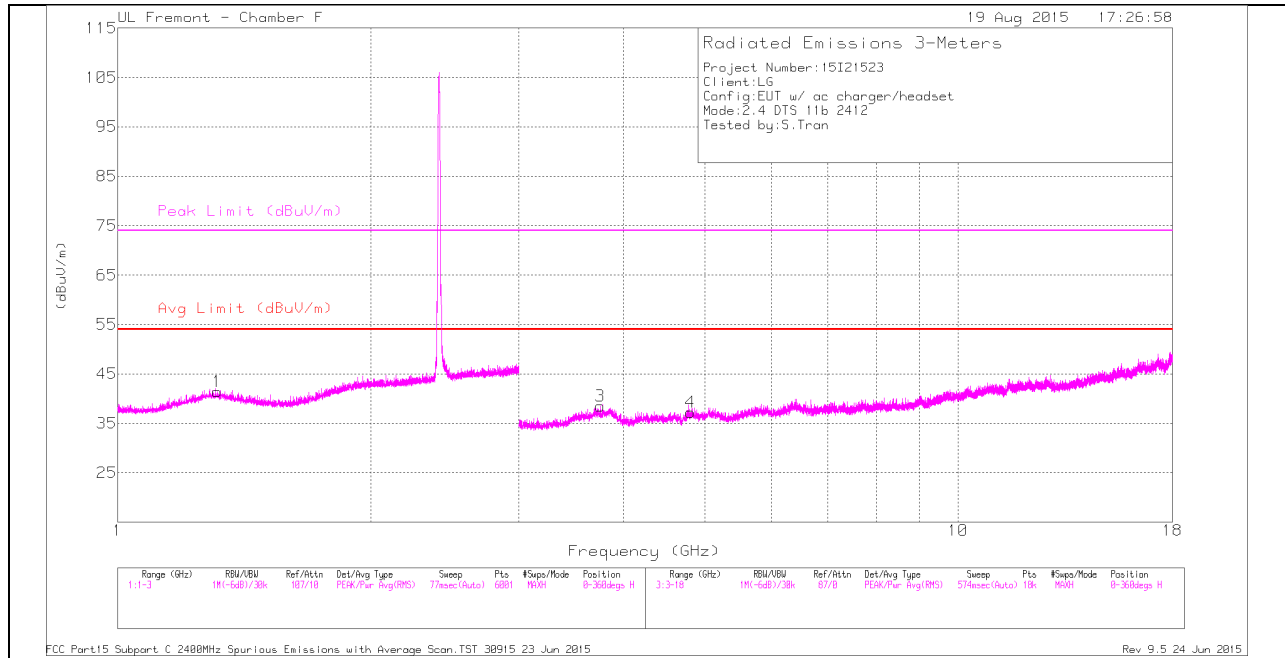
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

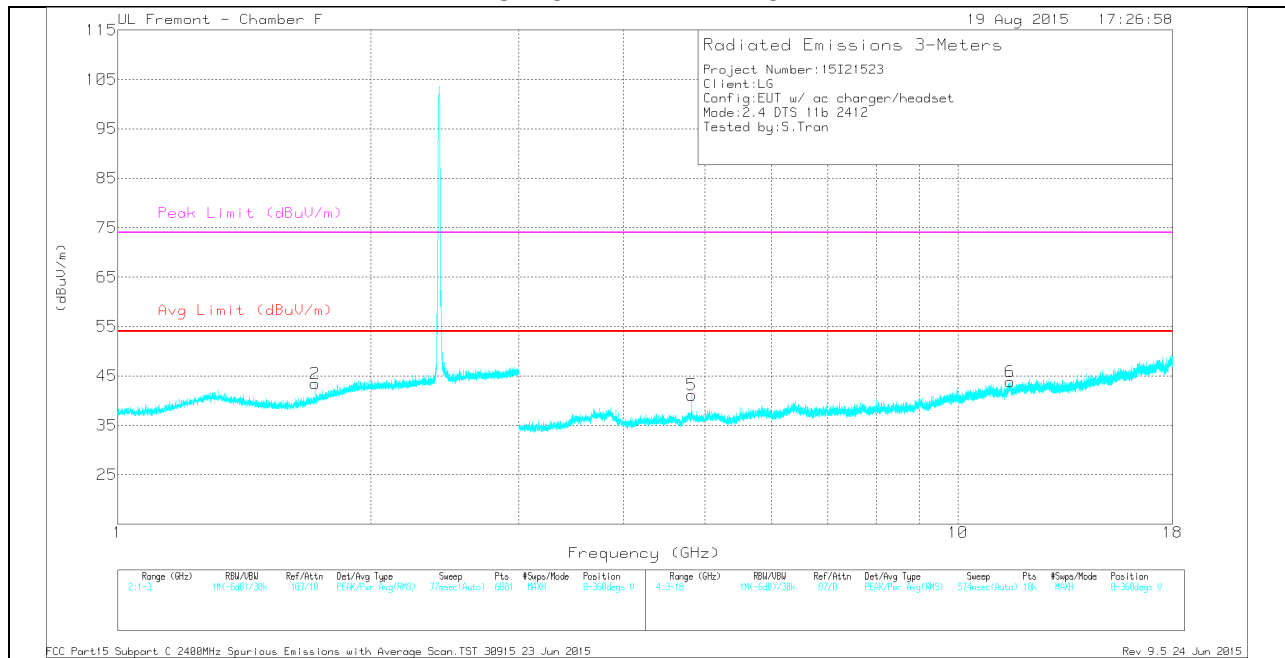
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.313	33.77	Pk	29.9	-22.2	41.47	-	-	74	-32.53	0-360	201	H
2	1.717	36.15	Pk	29.1	-21.8	43.45	-	-	74	-30.55	0-360	200	V
3	* 3.755	33.24	Pk	34.4	-29.2	38.44	-	-	74	-35.56	0-360	201	H
4	* 4.807	30.76	Pk	34.1	-27.6	37.26	-	-	74	-36.74	0-360	101	H
5	* 4.824	34.3	Pk	34.1	-27.3	41.1	-	-	74	-32.9	0-360	101	V
6	* 11.53	26.58	Pk	38.6	-21.3	43.88	-	-	74	-30.12	0-360	101	V

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

Pk - Peak detector

Radiated Emissions

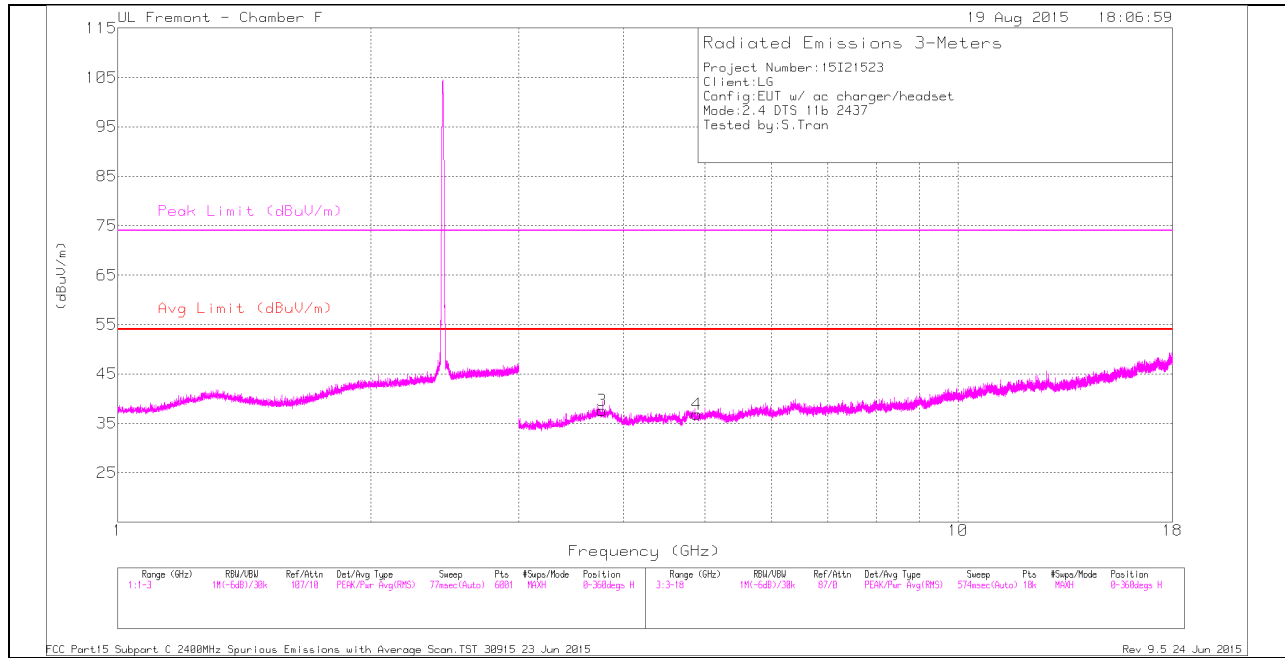
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.314	41.67	PK2	29.9	-22.2	49.37	-	-	74	-24.63	0	202	H
* 1.313	30.36	MAV1	29.9	-22.2	38.06	54	-15.94	-	-	0	202	H
1.718	41.89	PK2	29.1	-21.8	49.19	-	-	74	-24.81	0	202	V
1.717	30.25	MAV1	29.1	-21.8	37.55	-	-	-	-	0	202	V
* 3.754	38.27	PK2	34.4	-29.2	43.47	-	-	74	-30.53	0	202	H
* 3.755	27.62	MAV1	34.4	-29.2	32.82	54	-21.18	-	-	0	202	H
* 4.806	38.37	PK2	34.1	-27.7	44.77	-	-	74	-29.23	0	102	H
* 4.807	26.8	MAV1	34.1	-27.6	33.3	54	-20.7	-	-	0	102	H
* 4.824	37.67	PK2	34.1	-27.3	44.47	-	-	74	-29.53	0	102	V
* 4.824	26.94	MAV1	34.1	-27.3	33.74	54	-20.26	-	-	0	102	V
* 11.529	33.84	PK2	38.6	-21.3	51.14	-	-	74	-22.86	0	102	V
* 11.529	22.77	MAV1	38.6	-21.3	40.07	54	-13.93	-	-	0	102	V

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

PK2 - KDB558074 Method: Maximum Peak

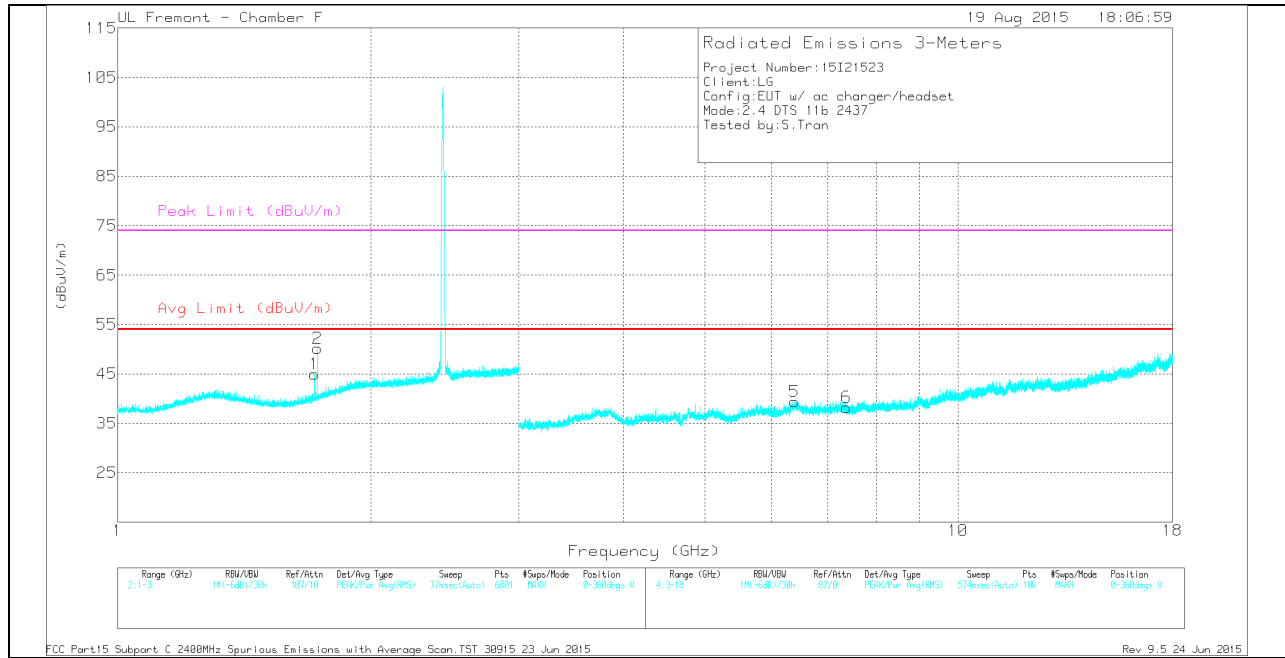
MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.716	37.63	Pk	29.1	-21.8	44.93	-	-	74	-29.07	0-360	200	V
2	1.729	42.58	Pk	29.3	-21.7	50.18	-	-	74	-23.82	0-360	200	V
3	* 3.774	32.31	Pk	34.3	-29	37.61	-	-	74	-36.39	0-360	101	H
4	* 4.887	30.73	Pk	34.1	-28	36.83	-	-	74	-37.17	0-360	101	H
5	6.394	30.82	Pk	35.8	-27.2	39.42	-	-	74	-34.58	0-360	200	V
6	* 7.369	28.67	Pk	35.7	-26.1	38.27	-	-	74	-35.73	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

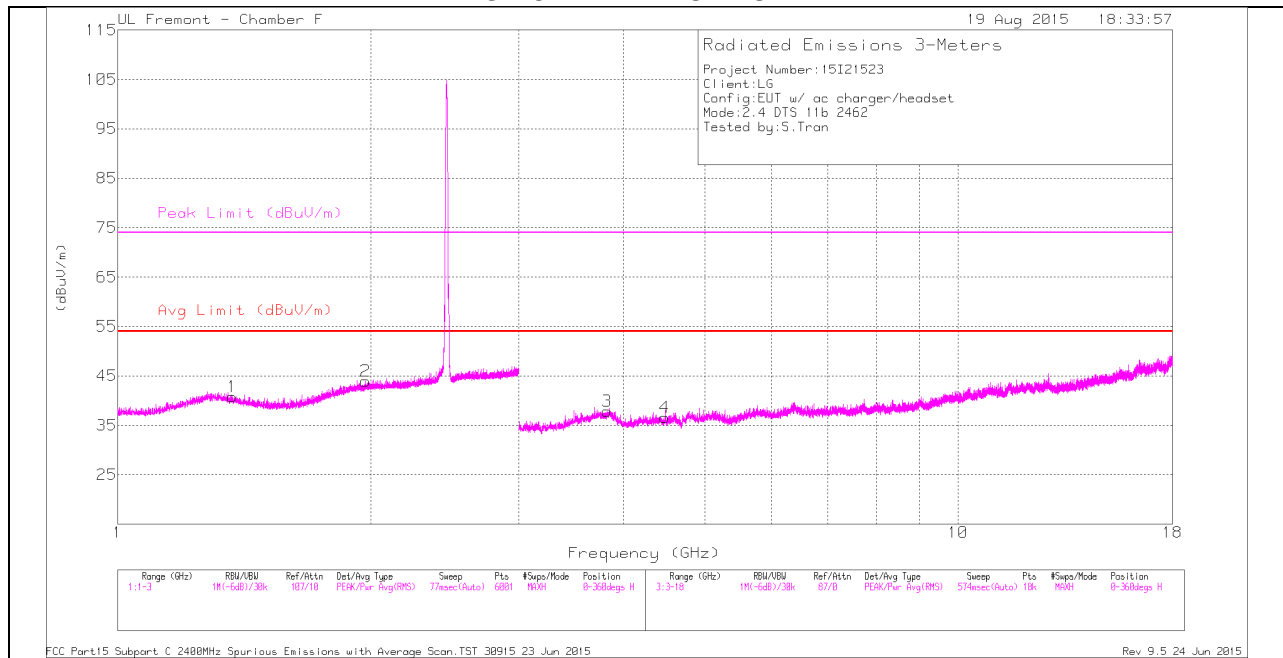
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.716	45.39	PK2	29.1	-21.8	52.69	-	-	74	-21.31	0	201	V
1.715	30.27	MAV1	29.1	-21.8	37.57	-	-	-	-	0	201	V
1.727	41.94	PK2	29.2	-21.7	49.44	-	-	74	-24.56	0	201	V
1.729	30.27	MAV1	29.3	-21.7	37.87	-	-	-	-	0	201	V
* 3.774	38.97	PK2	34.3	-29	44.27	-	-	74	-29.73	0	102	H
* 3.775	27.61	MAV1	34.3	-29	32.91	54	-21.09	-	-	0	102	H
* 4.887	38.15	PK2	34.1	-28	44.25	-	-	74	-29.75	0	102	H
* 4.885	26.75	MAV1	34.1	-28	32.85	54	-21.15	-	-	0	102	H
6.394	37.87	PK2	35.8	-27.2	46.47	-	-	74	-27.53	0	201	V
6.395	26.56	MAV1	35.8	-27.2	35.16	-	-	-	-	0	201	V
* 7.37	36.47	PK2	35.7	-26.1	46.07	-	-	74	-27.93	0	201	V
* 7.369	25.49	MAV1	35.7	-26.1	35.09	54	-18.91	-	-	0	201	V

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

PK2 - KDB558074 Method: Maximum Peak

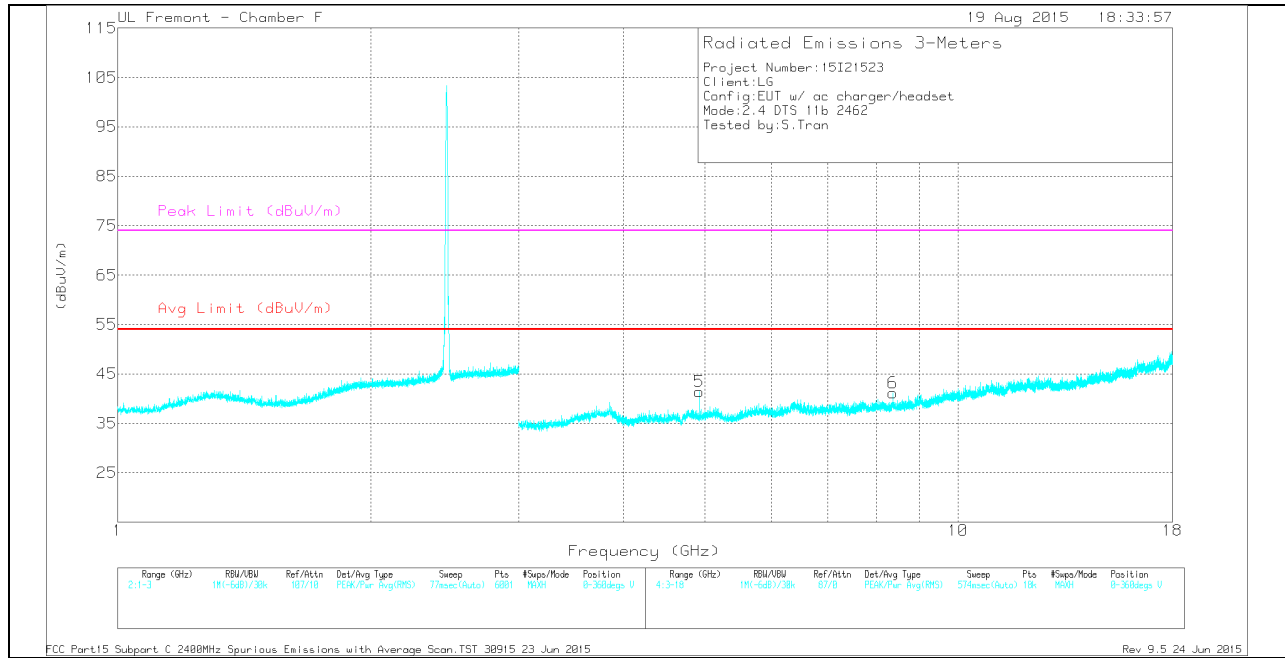
MAV1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.37	33.46	Pk	29.4	-22.1	40.76	-	-	74	-33.24	0-360	101	H
2	1.972	33.93	Pk	31.5	-21.5	43.93	-	-	74	-30.07	0-360	101	H
3	* 3.821	32.21	Pk	34.1	-28.5	37.81	-	-	74	-36.19	0-360	201	H
4	4.481	31.17	Pk	33.9	-28.5	36.57	-	-	74	-37.43	0-360	101	H
5	* 4.924	35.87	Pk	34.1	-28.6	41.37	-	-	74	-32.63	0-360	101	V
6	* 8.365	29.64	Pk	35.8	-24.3	41.14	-	-	74	-32.86	0-360	101	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.372	41.5	PK2	29.4	-22.1	48.8	-	-	74	-25.2	0	100	H
* 1.37	30.21	MAV1	29.4	-22.1	37.51	54	-16.49	-	-	0	100	H
1.974	41.99	PK2	31.5	-21.5	51.99	-	-	74	-22.01	0	100	H
1.972	30.09	MAV1	31.5	-21.5	40.09	-	-	-	-	0	100	H
* 3.823	38.85	PK2	34.1	-28.5	44.45	-	-	74	-29.55	0	202	H
* 3.821	27.63	MAV1	34.1	-28.5	33.23	54	-20.77	-	-	0	202	H
4.482	38	PK2	33.9	-28.5	43.4	-	-	74	-30.6	0	101	H
4.482	27.26	MAV1	33.9	-28.5	32.66	-	-	-	-	0	101	H
* 4.924	38.57	PK2	34.1	-28.6	44.07	-	-	74	-29.93	0	101	V
* 4.924	27.78	MAV1	34.1	-28.6	33.28	54	-20.72	-	-	0	101	V
* 8.363	35.49	PK2	35.8	-24.3	46.99	-	-	74	-27.01	0	101	V
* 8.365	24.85	MAV1	35.8	-24.3	36.35	54	-17.65	-	-	0	101	V

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

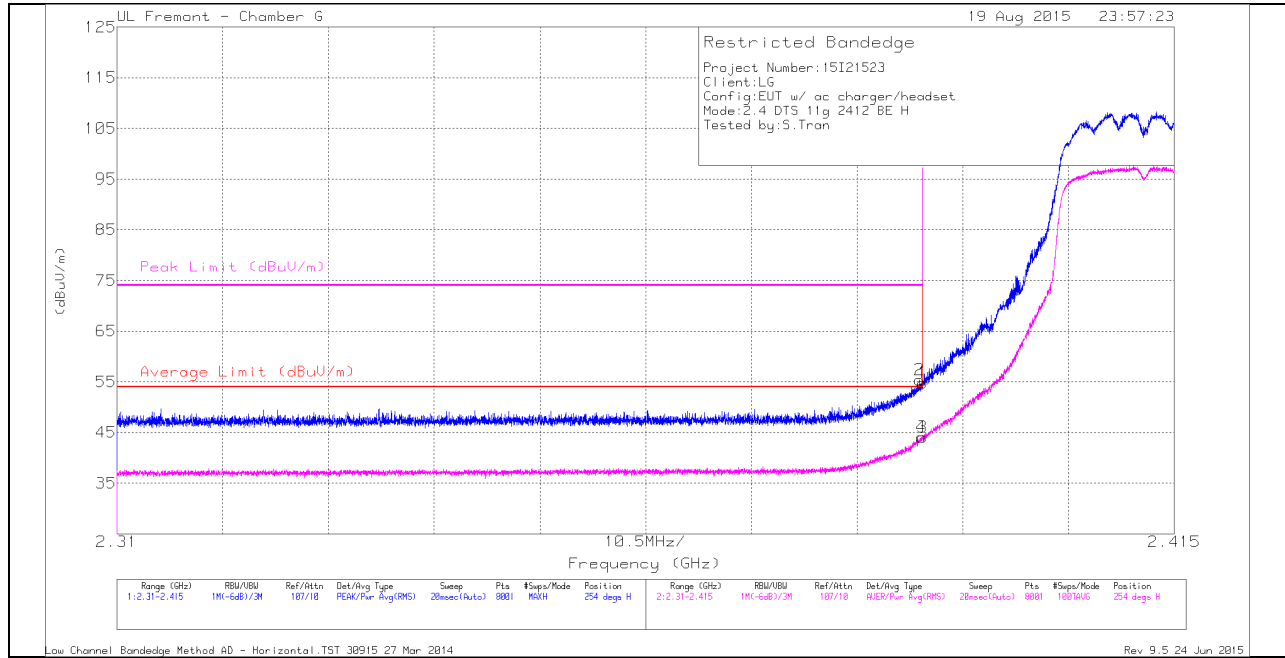
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

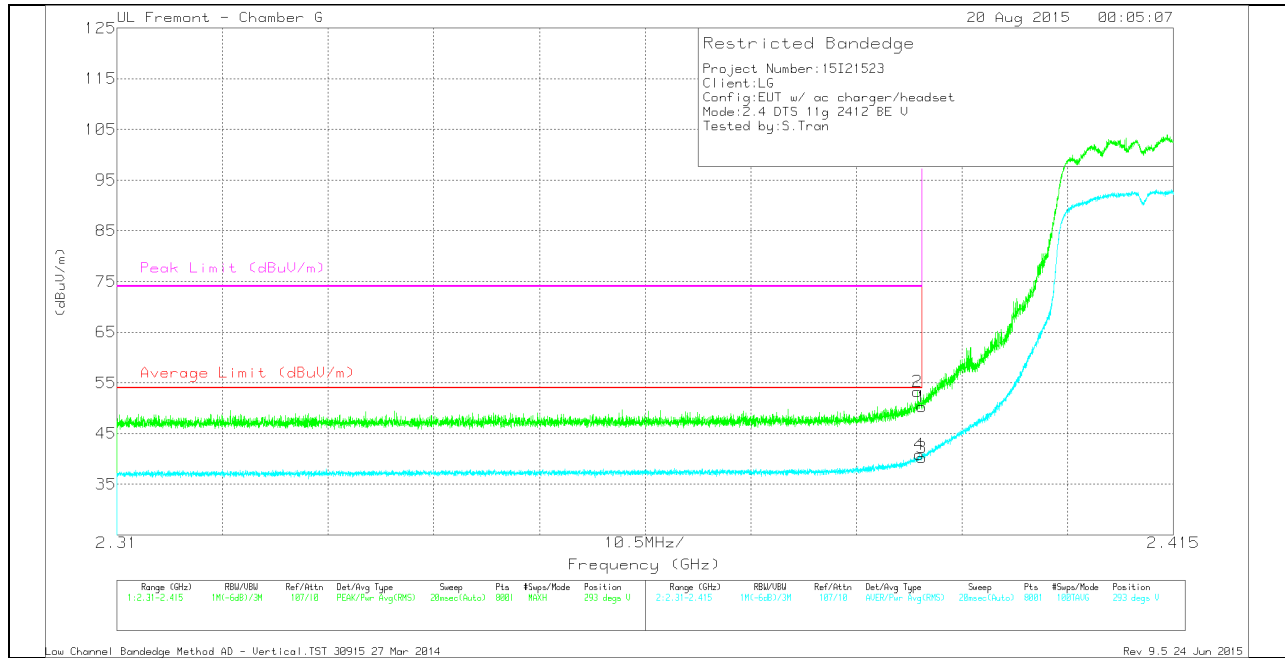
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	47.39	Pk	31.9	-24.5	54.79	-	-	74	-19.21	254	122	H
2	* 2.39	47.96	Pk	31.9	-24.5	55.36	-	-	74	-18.64	254	122	H
3	* 2.39	36.7	RMS	31.9	-24.5	44.1	54	-9.9	-	-	254	122	H
4	* 2.39	36.71	RMS	31.9	-24.5	44.11	54	-9.89	-	-	254	122	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.94	Pk	31.9	-24.5	50.34	-	-	74	-23.66	293	125	V
2	* 2.39	45.84	Pk	31.9	-24.5	53.24	-	-	74	-20.76	293	125	V
3	* 2.39	32.84	RMS	31.9	-24.5	40.24	54	-13.76	-	-	293	125	V
4	* 2.39	33.43	RMS	31.9	-24.5	40.83	54	-13.17	-	-	293	125	V

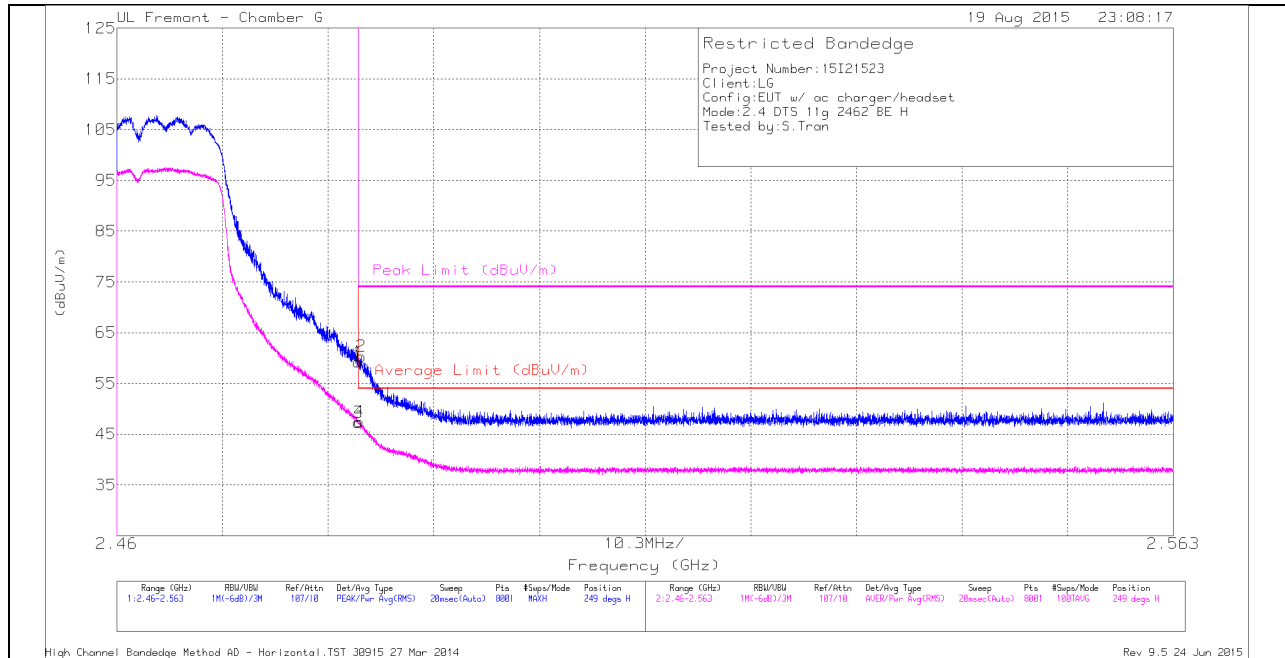
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

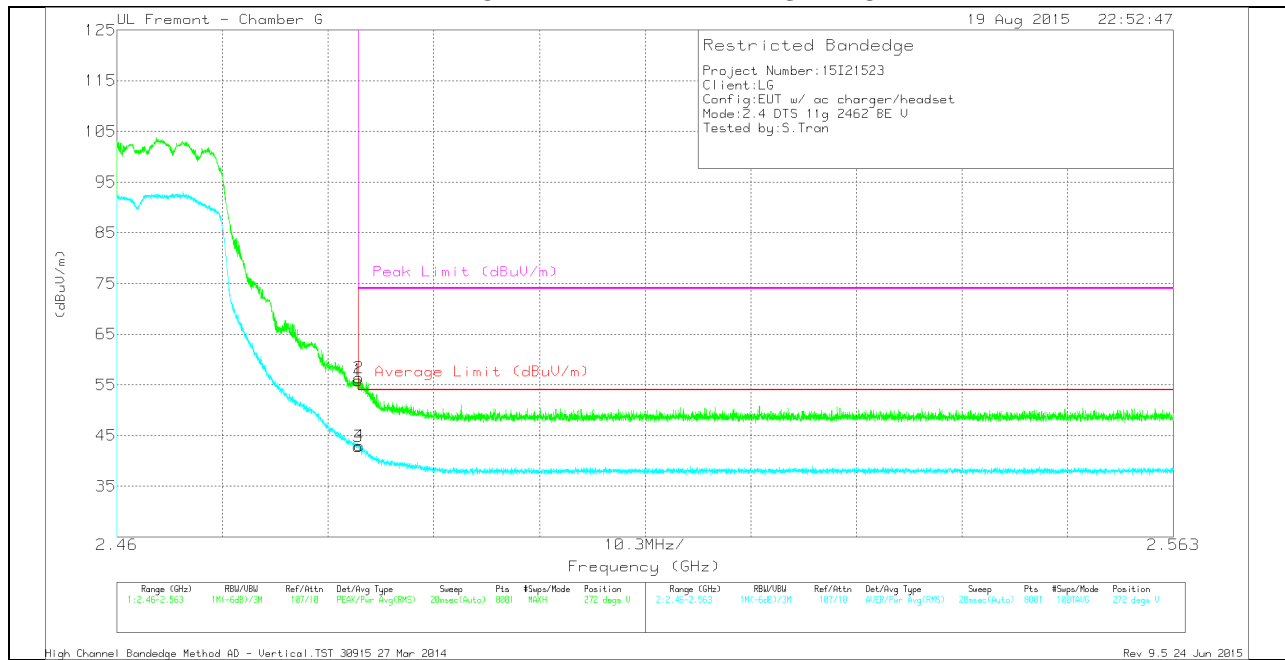
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.39	Pk	32.3	-24.5	59.19	-	-	74	-14.81	249	180	H
2	* 2.484	52.54	Pk	32.3	-24.5	60.34	-	-	74	-13.66	249	180	H
3	* 2.484	39.53	RMS	32.3	-24.5	47.33	54	-6.67	-	-	249	180	H
4	* 2.484	39.65	RMS	32.3	-24.5	47.45	54	-6.55	-	-	249	180	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



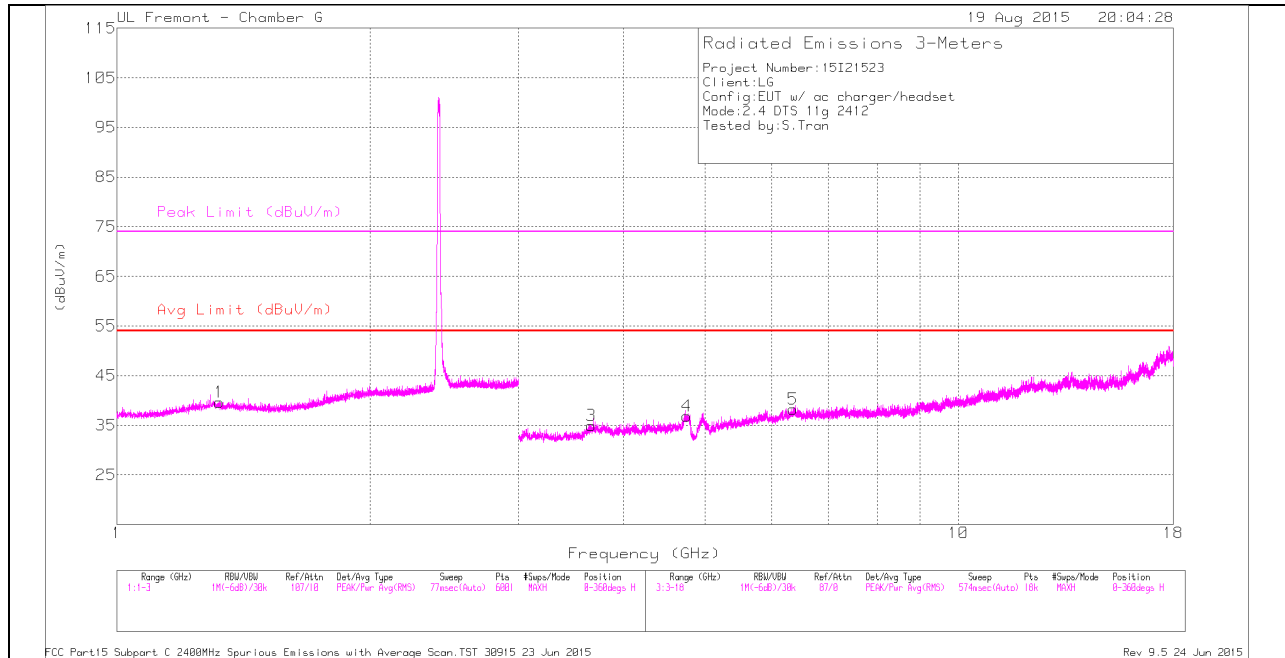
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.14	Pk	32.3	-24.5	55.94	-	-	74	-18.06	272	125	V
2	* 2.484	48.58	Pk	32.3	-24.5	56.38	-	-	74	-17.62	272	125	V
3	* 2.484	35.04	RMS	32.3	-24.5	42.84	54	-11.16	-	-	272	125	V
4	* 2.484	35.18	RMS	32.3	-24.5	42.98	54	-11.02	-	-	272	125	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

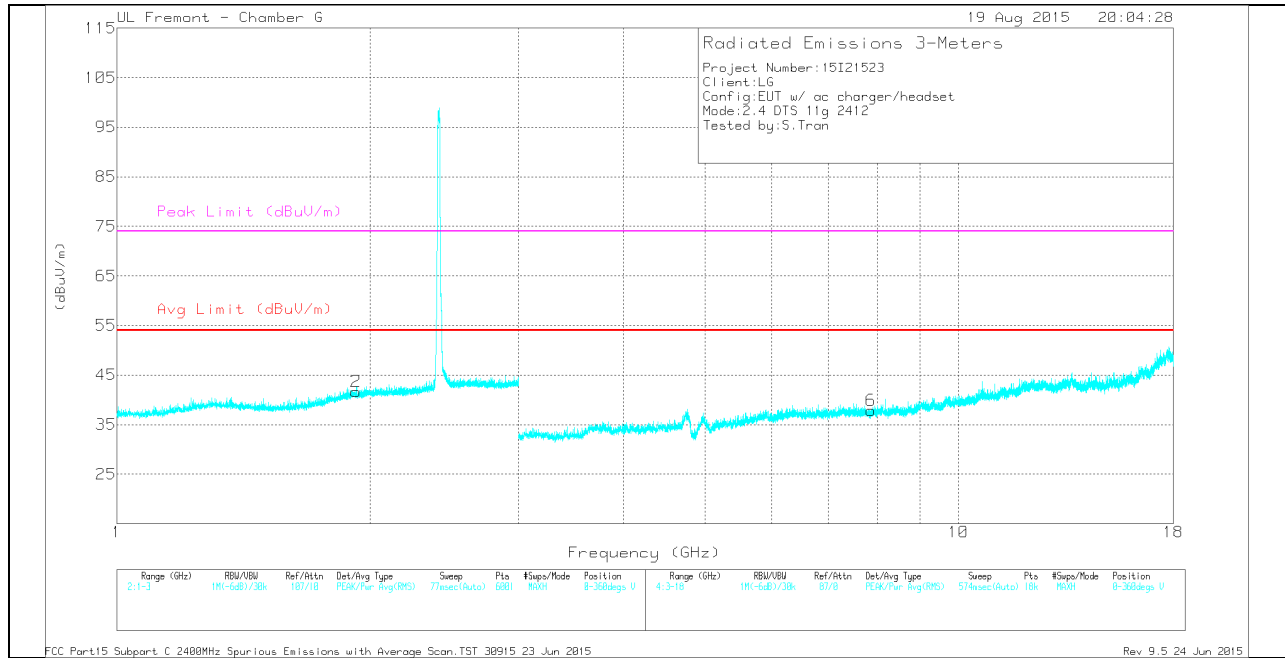
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.323	36	Pk	29.2	-25.6	39.6	-	-	74	-34.4	0-360	101	H
3	* 3.662	33.68	Pk	33.1	-31.8	34.98	-	-	74	-39.02	0-360	100	H
4	* 4.752	35.47	Pk	33.9	-32.5	36.87	-	-	74	-37.13	0-360	201	H
2	1.923	35.74	Pk	31	-25.1	41.64	-	-	74	-32.36	0-360	200	V
5	6.357	34.12	Pk	35.8	-31.7	38.22	-	-	74	-35.78	0-360	100	H
6	7.873	32.1	Pk	35.7	-29.9	37.9	-	-	74	-36.1	0-360	101	V

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

Pk - Peak detector

Radiated Emissions

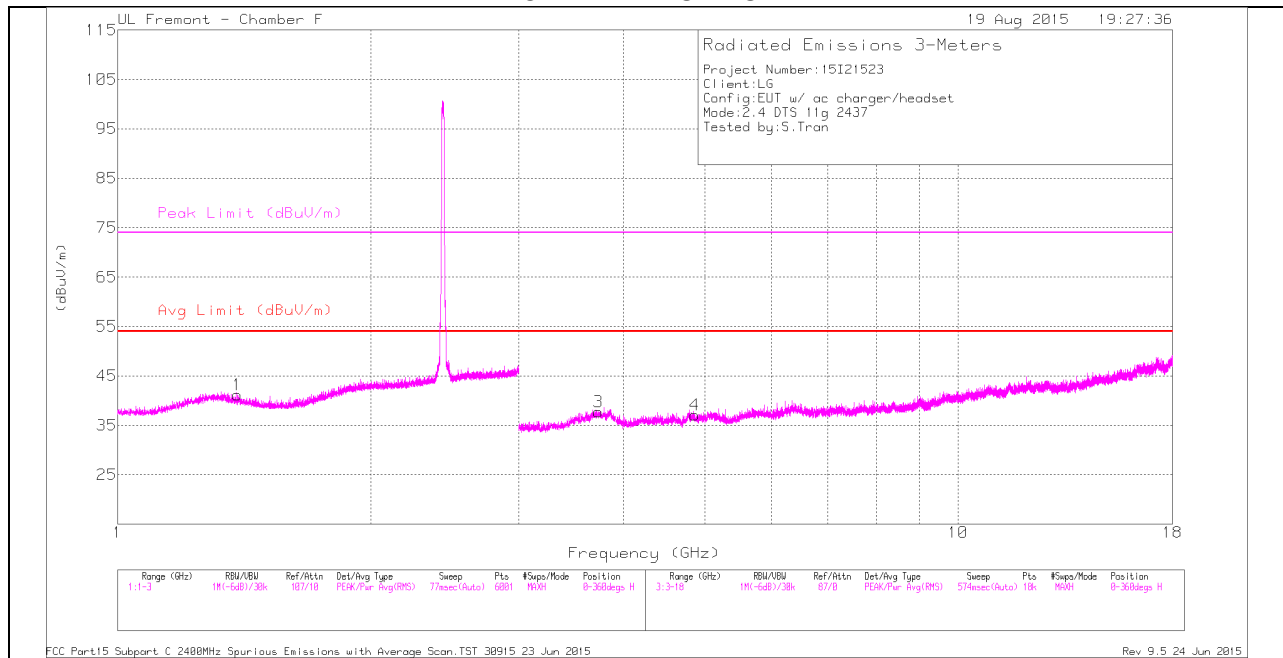
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.323	44	PK2	29.2	-25.6	47.6	-	-	74	-26.4	94	101	H
* 1.325	32.64	MAV1	29.2	-25.6	36.24	54	-17.76	-	-	94	101	H
* 3.66	42.1	PK2	33.1	-31.8	43.4	-	-	74	-30.6	94	101	H
* 3.66	30.68	MAV1	33.1	-31.8	31.98	54	-22.02	-	-	94	101	H
* 4.753	44.15	PK2	33.9	-32.5	45.55	-	-	74	-28.45	94	202	H
* 4.751	32.94	MAV1	33.9	-32.5	34.34	54	-19.66	-	-	94	202	H
1.922	43.78	PK2	31	-25.1	49.68	-	-	74	-24.32	94	201	V
1.923	32.31	MAV1	31	-25.1	38.21	-	-	-	-	94	201	V
6.356	42.1	PK2	35.8	-31.8	46.1	-	-	74	-27.9	94	100	H
6.356	31.11	MAV1	35.8	-31.7	35.21	-	-	-	-	94	100	H
7.872	40.31	PK2	35.7	-29.9	46.11	-	-	74	-27.89	94	100	V
7.874	29.2	MAV1	35.7	-29.9	35	-	-	-	-	94	100	V

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

PK2 - KDB558074 Method: Maximum Peak

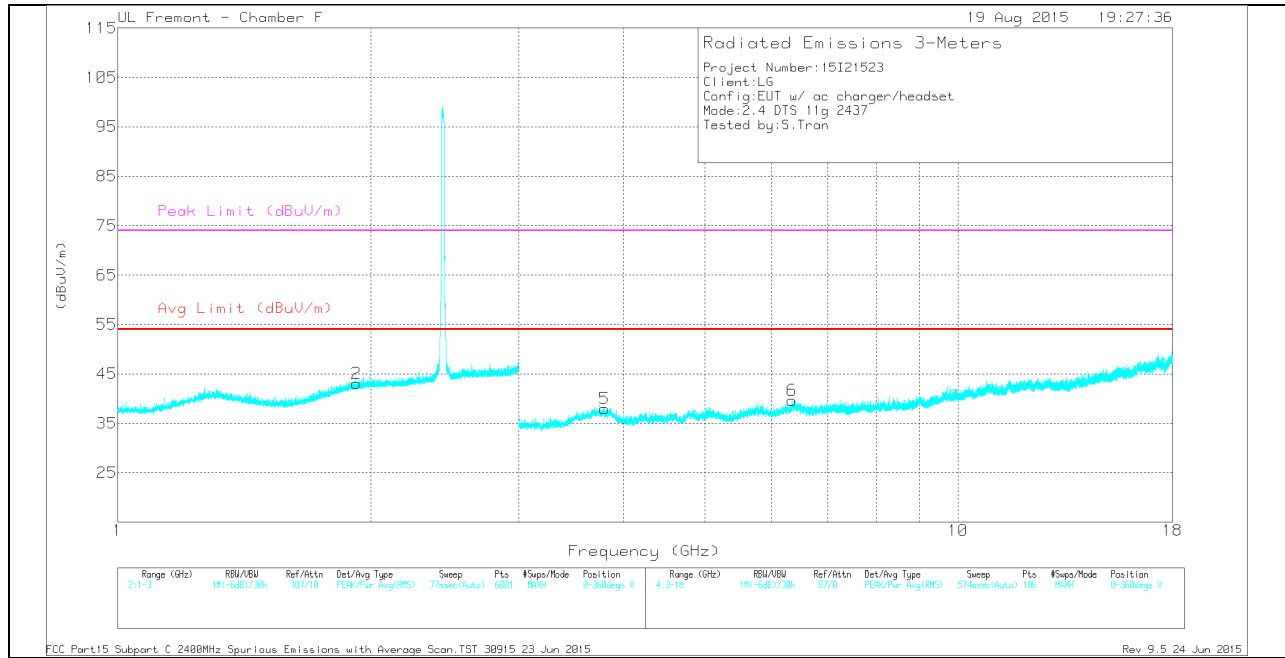
MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.387	34.11	Pk	29.2	-22.1	41.21	-	-	74	-32.79	0-360	201	H
2	1.925	33.25	Pk	31.3	-21.5	43.05	-	-	74	-30.95	0-360	200	V
3	* 3.735	32.57	Pk	34.5	-29.3	37.77	-	-	74	-36.23	0-360	201	H
4	* 4.866	30.71	Pk	34.1	-27.7	37.11	-	-	74	-36.89	0-360	201	H
5	* 3.797	32.73	Pk	34.2	-28.9	38.03	-	-	74	-35.97	0-360	200	V
6	6.348	30.68	Pk	35.8	-26.9	39.58	-	-	74	-34.42	0-360	101	V

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

Pk - Peak detector

Radiated Emissions

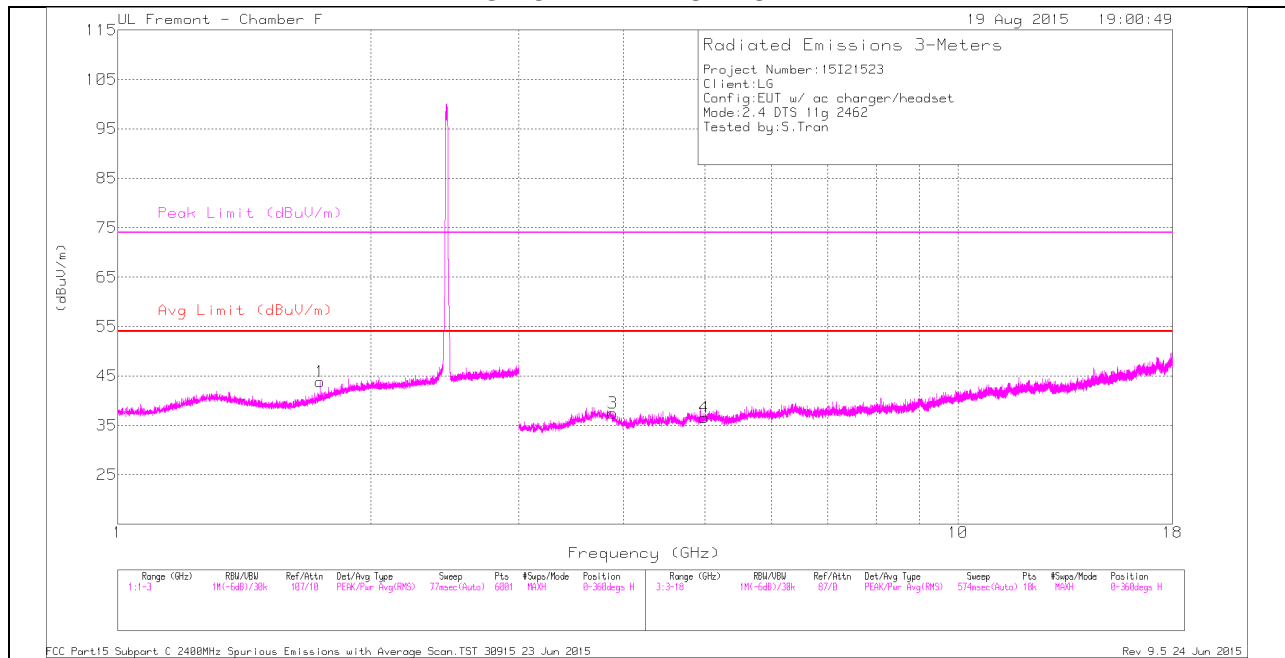
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.387	43.43	PK2	29.2	-22.1	50.53	-	-	74	-23.47	1	202	H
* 1.387	30.35	MAV1	29.2	-22.1	37.45	54	-16.55	-	-	1	202	H
* 1.388	41.69	PK2	29.2	-22.1	48.79	-	-	74	-25.21	0	202	H
* 1.386	30.38	MAV1	29.2	-22.1	37.48	54	-16.52	-	-	0	202	H
1.925	41.71	PK2	31.3	-21.5	51.51	-	-	74	-22.49	0	202	V
1.926	30.23	MAV1	31.3	-21.5	40.03	-	-	-	-	0	202	V
* 3.737	39.22	PK2	34.5	-29.3	44.42	-	-	74	-29.58	0	202	H
* 3.735	27.9	MAV1	34.5	-29.3	33.1	54	-20.9	-	-	0	202	H
* 4.865	36.9	PK2	34.1	-27.7	43.3	-	-	74	-30.7	0	202	H
* 4.864	26	MAV1	34.1	-27.7	32.4	54	-21.6	-	-	0	202	H
* 3.796	39.04	PK2	34.2	-28.9	44.34	-	-	74	-29.66	0	202	V
* 3.797	27.72	MAV1	34.2	-28.9	33.02	54	-20.98	-	-	0	202	V
6.347	37.42	PK2	35.8	-26.9	46.32	-	-	74	-27.68	0	102	V
6.346	26.24	MAV1	35.8	-26.9	35.14	-	-	-	-	0	102	V

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

PK2 - KDB558074 Method: Maximum Peak

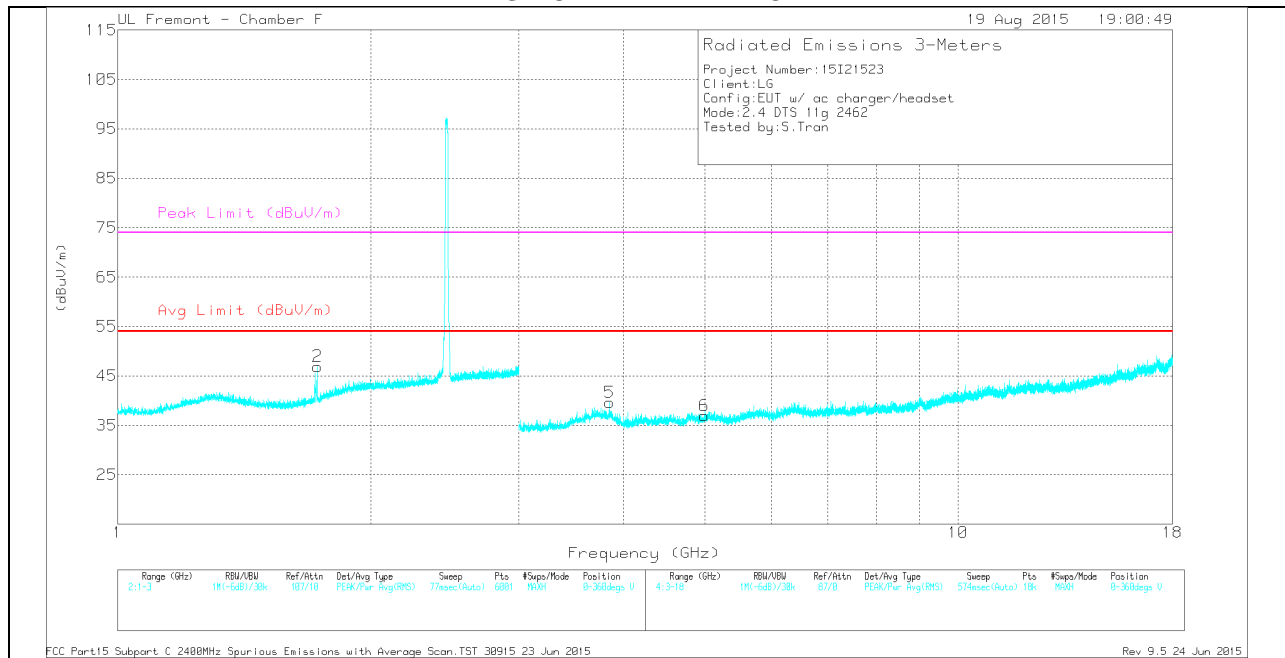
MAV1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.741	36.15	Pk	29.4	-21.7	43.85	-	-	74	-30.15	0-360	201	H
2	1.729	39.33	Pk	29.3	-21.7	46.93	-	-	74	-27.07	0-360	200	V
3	* 3.885	32.22	Pk	33.9	-28.7	37.42	-	-	74	-36.58	0-360	100	H
4	* 4.992	31.54	Pk	34.1	-29	36.64	-	-	74	-37.36	0-360	100	H
5	* 3.847	33.89	Pk	34	-28.2	39.69	-	-	74	-34.31	0-360	200	V
6	* 4.987	31.72	Pk	34.1	-28.9	36.92	-	-	74	-37.08	0-360	101	V

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.741	41.36	PK2	29.4	-21.7	49.06	-	-	74	-24.94	0	202	H
1.74	30.16	MAv1	29.4	-21.7	37.86	-	-	-	-	0	202	H
1.729	41.9	PK2	29.3	-21.7	49.5	-	-	74	-24.5	0	202	V
1.73	30.11	MAv1	29.3	-21.7	37.71	-	-	-	-	0	202	V
* 3.883	38.61	PK2	33.9	-28.6	43.91	-	-	74	-30.09	0	100	H
* 3.885	27.47	MAv1	33.9	-28.7	32.67	54	-21.33	-	-	0	100	H
* 4.992	38.68	PK2	34.1	-29	43.78	-	-	74	-30.22	0	100	H
* 4.994	27.67	MAv1	34.1	-29	32.77	54	-21.23	-	-	0	100	H
* 3.848	38.68	PK2	34	-28.3	44.38	-	-	74	-29.62	0	201	V
* 3.846	27.66	MAv1	34	-28.3	33.36	54	-20.64	-	-	0	201	V
* 4.986	38.59	PK2	34.1	-29	43.69	-	-	74	-30.31	0	102	V
* 4.989	27.63	MAv1	34.1	-28.9	32.83	54	-21.17	-	-	0	102	V

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

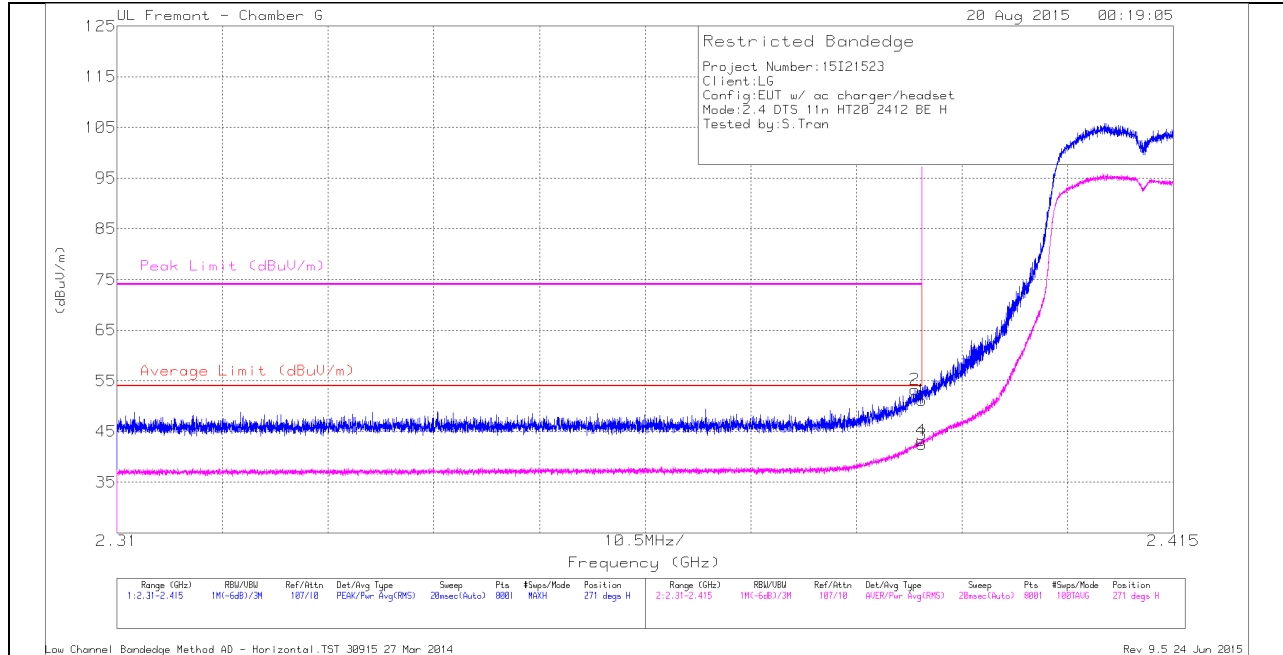
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

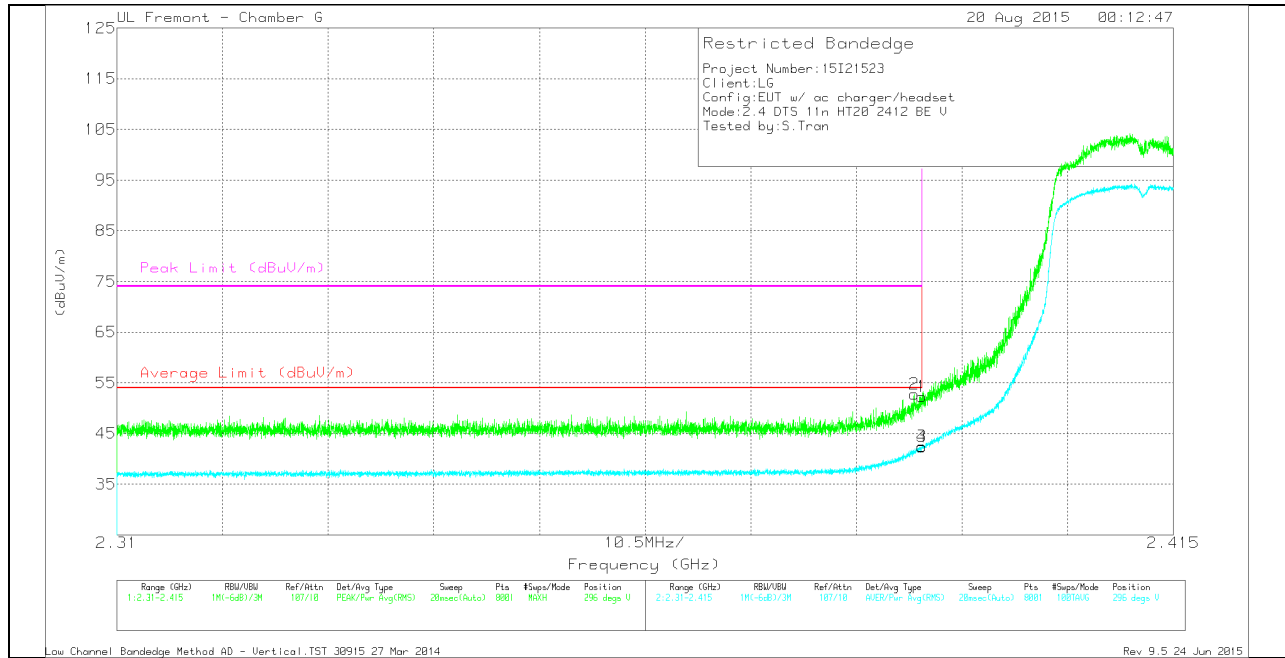
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.77	Pk	31.9	-24.5	51.17	-	-	74	-22.83	271	158	H
2	* 2.389	45.82	Pk	31.9	-24.5	53.22	-	-	74	-20.78	271	158	H
3	* 2.39	35.04	RMS	31.9	-24.5	42.44	54	-11.56	-	-	271	158	H
4	* 2.39	35.8	RMS	31.9	-24.5	43.2	54	-10.8	-	-	271	158	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.85	Pk	31.9	-24.5	52.25	-	-	74	-21.75	296	154	V
2	* 2.389	45.42	Pk	31.9	-24.5	52.82	-	-	74	-21.18	296	154	V
3	* 2.39	35.11	RMS	31.9	-24.5	42.51	54	-11.49	-	-	296	154	V
4	* 2.39	34.92	RMS	31.9	-24.5	42.32	54	-11.68	-	-	296	154	V

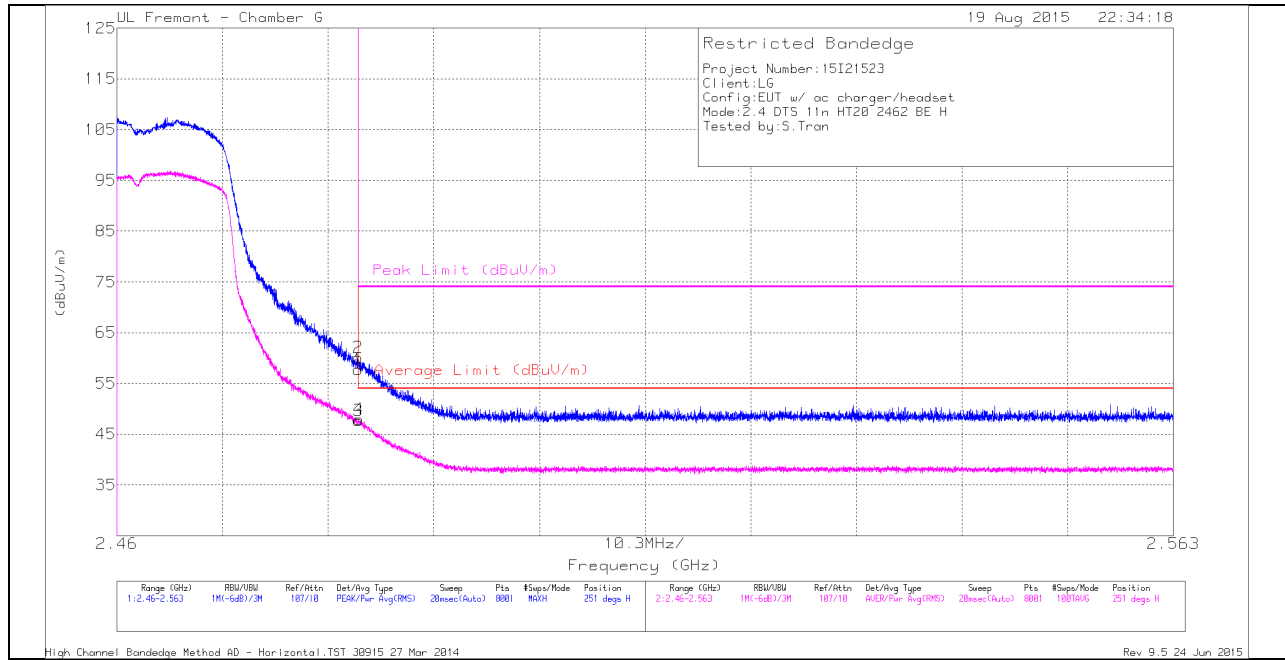
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

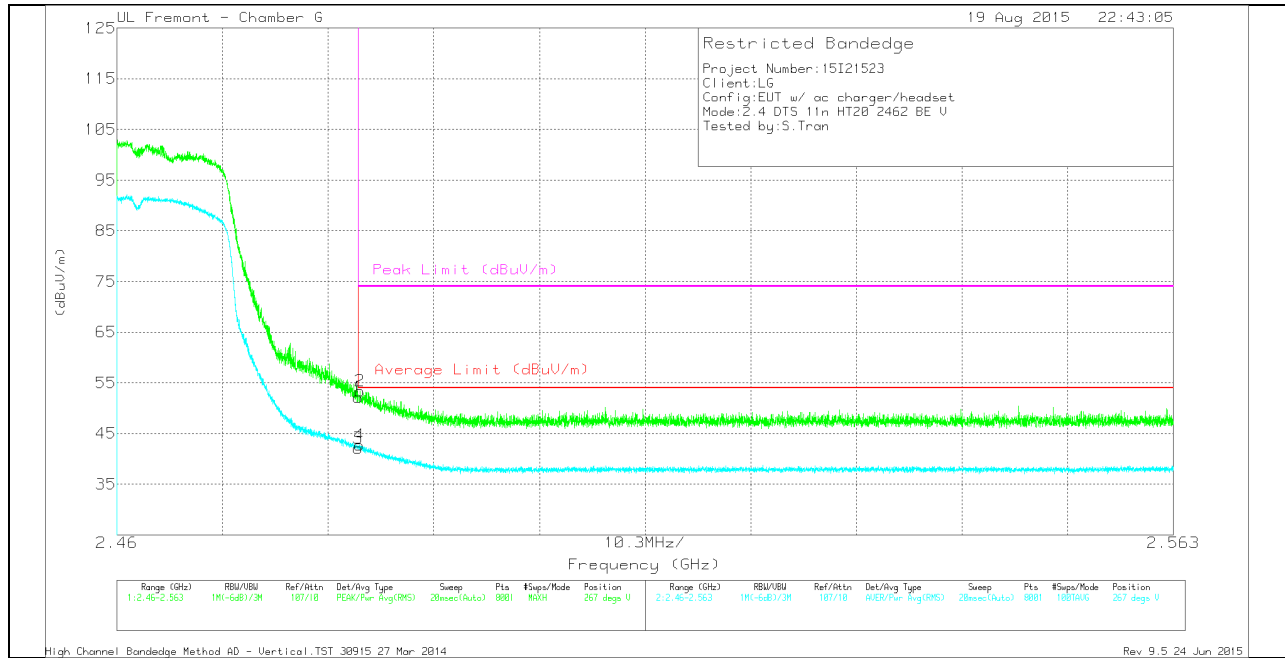
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.89	Pk	32.3	-24.5	57.69	-	-	74	-16.31	251	118	H
2	* 2.484	52.26	Pk	32.3	-24.5	60.06	-	-	74	-13.94	251	118	H
3	* 2.484	39.91	RMS	32.3	-24.5	47.71	54	-6.29	-	-	251	118	H
4	* 2.484	40.09	RMS	32.3	-24.5	47.89	54	-6.11	-	-	251	118	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.41	Pk	32.3	-24.5	52.21	-	-	74	-21.79	267	108	V
2	* 2.484	45.55	Pk	32.3	-24.5	53.35	-	-	74	-20.65	267	108	V
3	* 2.484	34.29	RMS	32.3	-24.5	42.09	54	-11.91	-	-	267	108	V
4	* 2.484	34.92	RMS	32.3	-24.5	42.72	54	-11.28	-	-	267	108	V

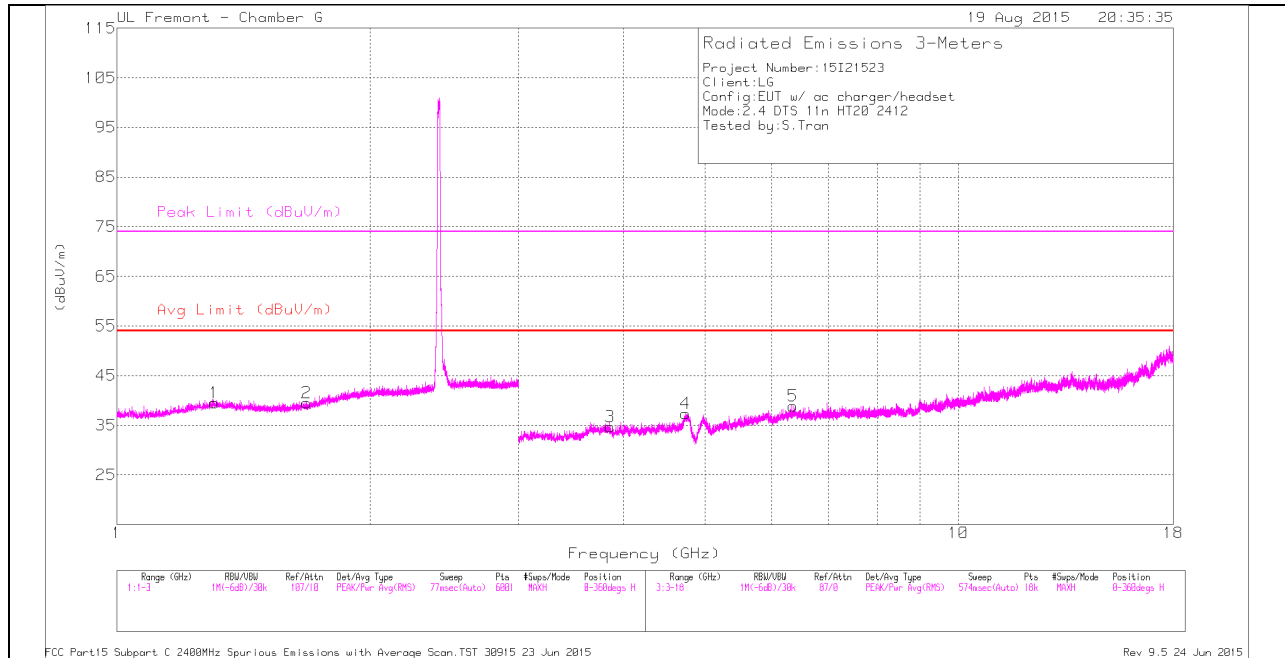
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

Pk - Peak detector

RMS - RMS detection

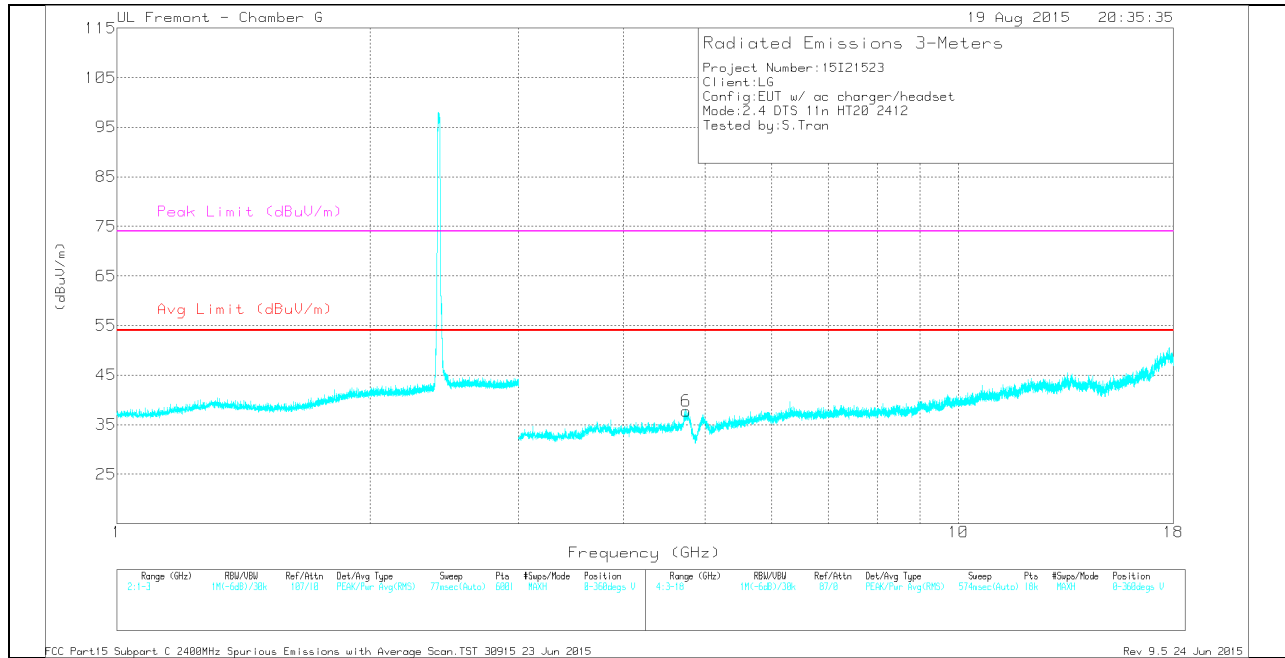
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.305	35.81	Pk	29.3	-25.6	39.51	-	-	74	-34.49	0-360	201	H
2	* 1.681	35.73	Pk	28.8	-25	39.53	-	-	74	-34.47	0-360	100	H
3	* 3.858	34.73	Pk	33.1	-33.1	34.73	-	-	74	-39.27	0-360	201	H
4	* 4.738	35.89	Pk	33.9	-32.4	37.39	-	-	74	-36.61	0-360	101	H
6	* 4.751	36.36	Pk	33.9	-32.5	37.76	-	-	74	-36.24	0-360	200	V
5	6.362	34.62	Pk	35.8	-31.6	38.82	-	-	74	-35.18	0-360	201	H

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

Pk - Peak detector

Radiated Emissions

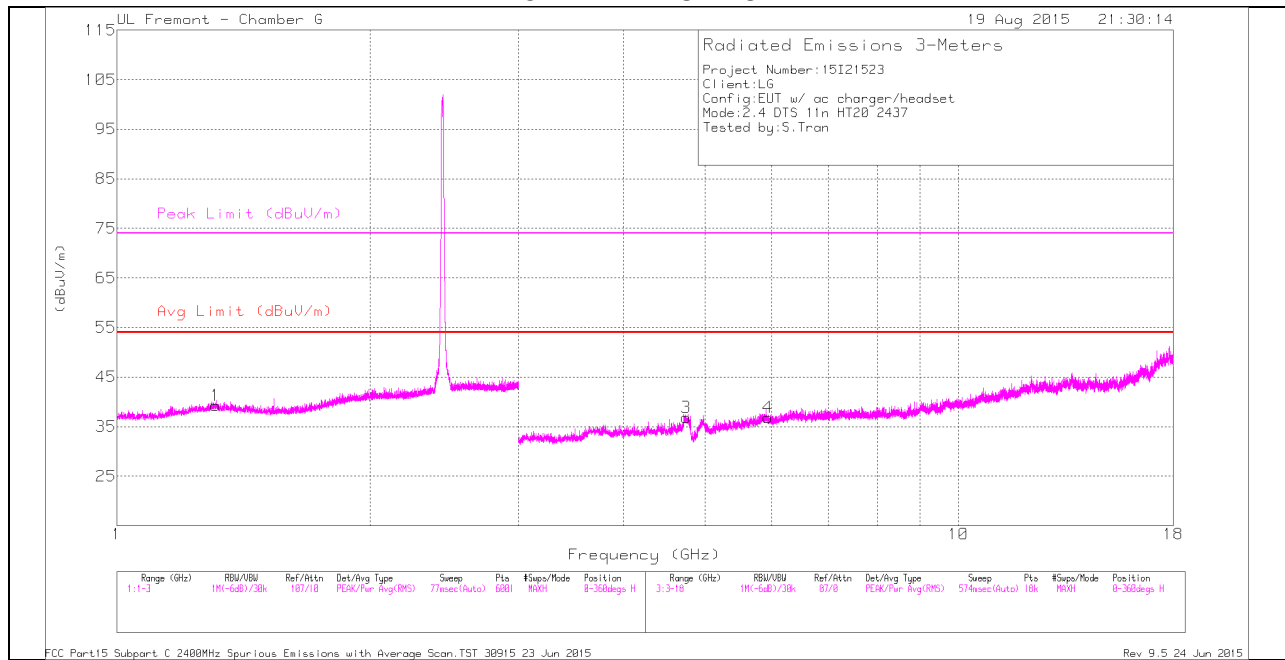
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.305	44.73	PK2	29.3	-25.6	48.43	-	-	74	-25.57	1	202	H
* 1.305	32.83	MAV1	29.3	-25.6	36.53	54	-17.47	-	-	1	202	H
* 1.68	43.47	PK2	28.8	-25	47.27	-	-	74	-26.73	1	100	H
* 1.682	31.97	MAV1	28.8	-25	35.77	54	-18.23	-	-	1	100	H
* 3.859	42.8	PK2	33.1	-33.1	42.8	-	-	74	-31.2	1	202	H
* 3.858	31.61	MAV1	33.1	-33.1	31.61	54	-22.39	-	-	1	202	H
* 3.857	42.62	PK2	33.1	-33.1	42.62	-	-	74	-31.38	1	202	H
* 3.857	31.79	MAV1	33.1	-33.1	31.79	54	-22.21	-	-	1	202	H
* 3.858	43.46	PK2	33.1	-33.1	43.46	-	-	74	-30.54	1	202	H
* 3.858	31.92	MAV1	33.1	-33.1	31.92	54	-22.08	-	-	1	202	H
* 3.857	43.03	PK2	33.1	-33.1	43.03	-	-	74	-30.97	1	202	H
* 3.858	31.92	MAV1	33.1	-33.1	31.92	54	-22.08	-	-	1	202	H
* 4.74	44.11	PK2	33.9	-32.3	45.71	-	-	74	-28.29	1	102	H
* 4.74	32.75	MAV1	33.9	-32.3	34.35	54	-19.65	-	-	1	102	H
* 4.75	44.12	PK2	33.9	-32.5	45.52	-	-	74	-28.48	1	202	V
* 4.749	32.76	MAV1	33.9	-32.5	34.16	54	-19.84	-	-	1	202	V
6.361	42.02	PK2	35.8	-31.7	46.12	-	-	74	-27.88	1	202	H
6.361	31	MAV1	35.8	-31.7	35.1	-	-	-	-	1	202	H

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

PK2 - KDB558074 Method: Maximum Peak

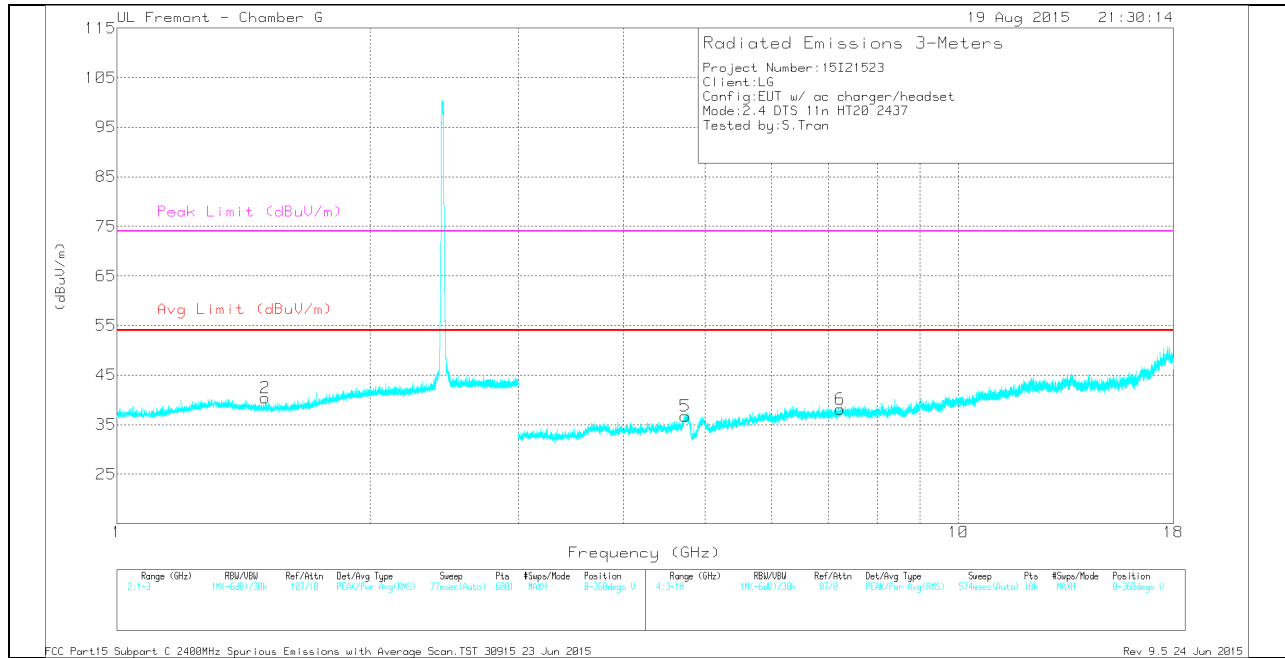
MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.309	35.6	Pk	29.3	-25.6	39.3	-	-	74	-34.7	0-360	201	H
2	* 1.501	37.33	Pk	28.3	-25.2	40.43	-	-	74	-33.57	0-360	200	V
3	* 4.744	35.38	Pk	33.9	-32.4	36.88	-	-	74	-37.12	0-360	101	H
5	* 4.735	35.26	Pk	33.9	-32.4	36.76	-	-	74	-37.24	0-360	200	V
4	5.941	33.42	Pk	35.2	-31.8	36.82	-	-	74	-37.18	0-360	101	H
6	7.232	32.92	Pk	35.6	-30.4	38.12	-	-	74	-35.88	0-360	200	V

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

Pk - Peak detector

Radiated Emissions

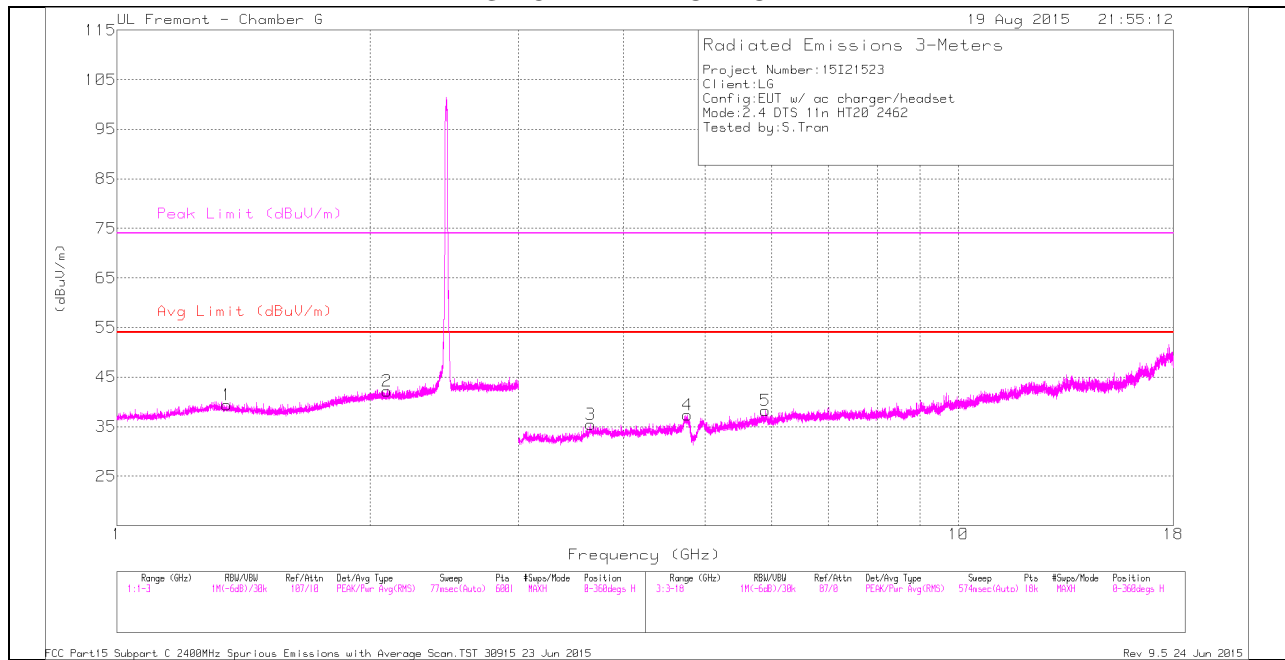
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.308	44.62	PK2	29.3	-25.6	48.32	-	-	74	-25.68	0	202	H
* 1.307	32.85	MAV1	29.3	-25.6	36.55	54	-17.45	-	-	0	202	H
* 1.5	44.53	PK2	28.3	-25.2	47.63	-	-	74	-26.37	0	202	V
* 1.5	32.41	MAV1	28.3	-25.2	35.51	54	-18.49	-	-	0	202	V
* 4.745	43.67	PK2	33.9	-32.4	45.17	-	-	74	-28.83	0	102	H
* 4.742	32.57	MAV1	33.9	-32.4	34.07	54	-19.93	-	-	0	102	H
* 4.733	44.6	PK2	33.9	-32.4	46.1	-	-	74	-27.9	0	201	V
* 4.734	32.71	MAV1	33.9	-32.4	34.21	54	-19.79	-	-	0	201	V
5.94	30.54	MAV1	35.2	-31.8	33.94	-	-	-	-	0	102	H
5.942	41.83	PK2	35.2	-31.8	45.23	-	-	74	-28.77	0	102	H
7.231	40.93	PK2	35.6	-30.4	46.13	-	-	74	-27.87	0	201	V
7.232	29.98	MAV1	35.6	-30.4	35.18	-	-	-	-	0	201	V

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

PK2 - KDB558074 Method: Maximum Peak

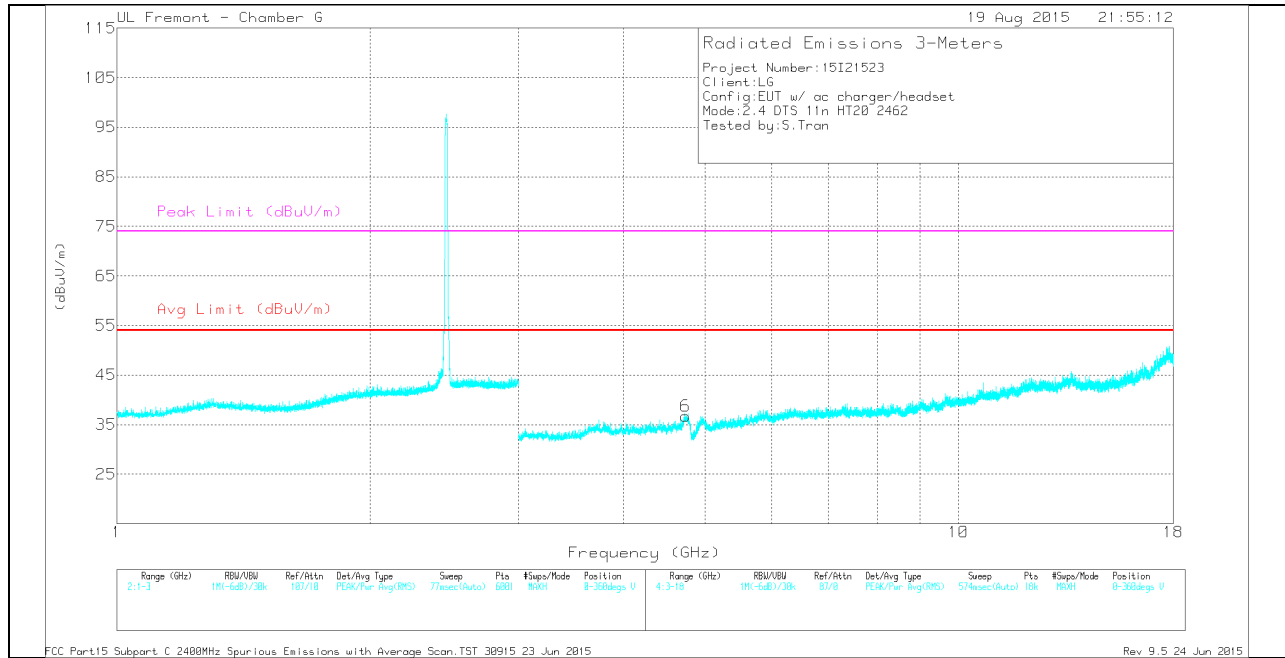
MAV1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.35	35.81	Pk	29.1	-25.5	39.41	-	-	74	-34.59	0-360	201	H
3	* 3.655	34.26	Pk	33.1	-31.9	35.46	-	-	74	-38.54	0-360	201	H
4	* 4.764	35.9	Pk	34	-32.5	37.4	-	-	74	-36.6	0-360	201	H
6	* 4.742	35.24	Pk	33.9	-32.4	36.74	-	-	74	-37.26	0-360	200	V
2	2.093	35.72	Pk	31.2	-24.7	42.22	-	-	74	-31.78	0-360	101	H
5	5.892	35.68	Pk	35.1	-32.5	38.28	-	-	74	-35.72	0-360	201	H

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.35	44.58	PK2	29.1	-25.5	48.18	-	-	74	-25.82	0	202	H
* 1.349	32.62	MAV1	29.1	-25.5	36.22	54	-17.78	-	-	0	202	H
* 3.654	42.35	PK2	33.1	-31.9	43.55	-	-	74	-30.45	0	202	H
* 3.655	30.8	MAV1	33.1	-31.9	32	54	-22	-	-	0	202	H
* 4.764	43.97	PK2	34	-32.5	45.47	-	-	74	-28.53	0	202	H
* 4.765	32.77	MAV1	34	-32.5	34.27	54	-19.73	-	-	0	202	H
* 4.742	45.09	PK2	33.9	-32.4	46.59	-	-	74	-27.41	0	202	V
* 4.741	32.8	MAV1	33.9	-32.4	34.3	54	-19.7	-	-	0	202	V
2.093	31.95	MAV1	31.2	-24.7	38.45	-	-	-	-	0	102	H
2.095	44.21	PK2	31.2	-24.7	50.71	-	-	74	-23.29	0	102	H
5.891	43	PK2	35.1	-32.5	45.6	-	-	74	-28.4	0	202	H
5.893	31.77	MAV1	35.1	-32.5	34.37	-	-	-	-	0	202	H

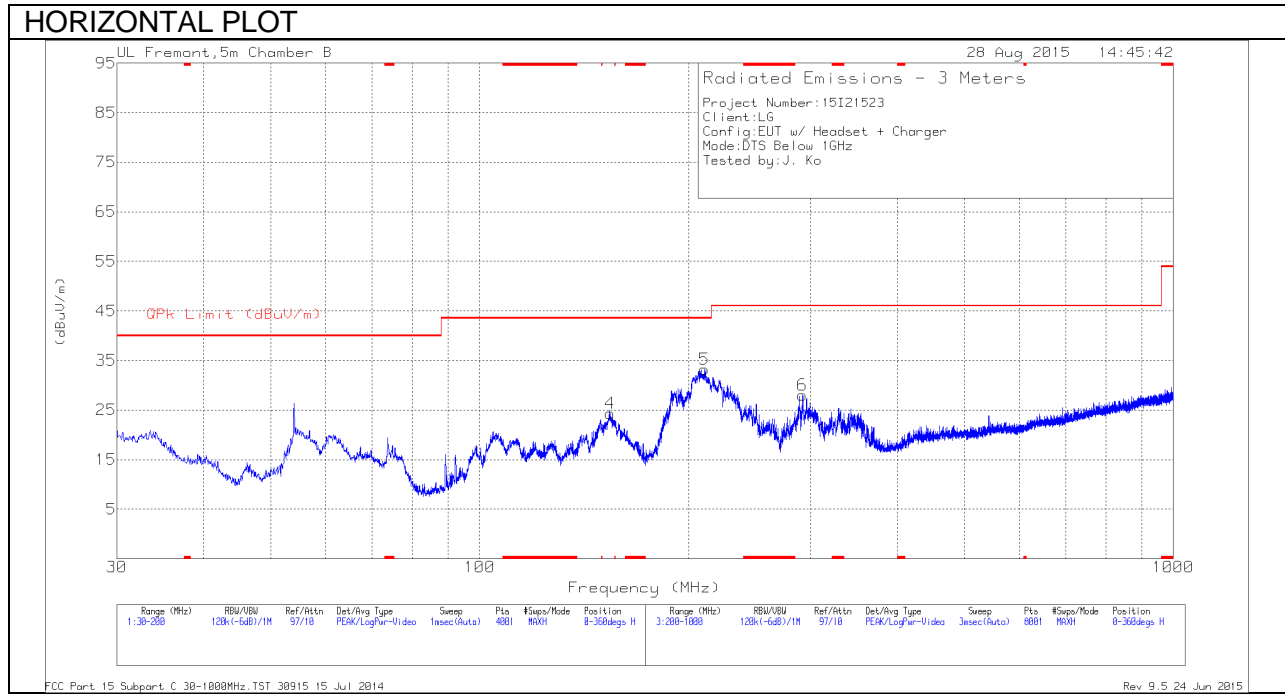
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

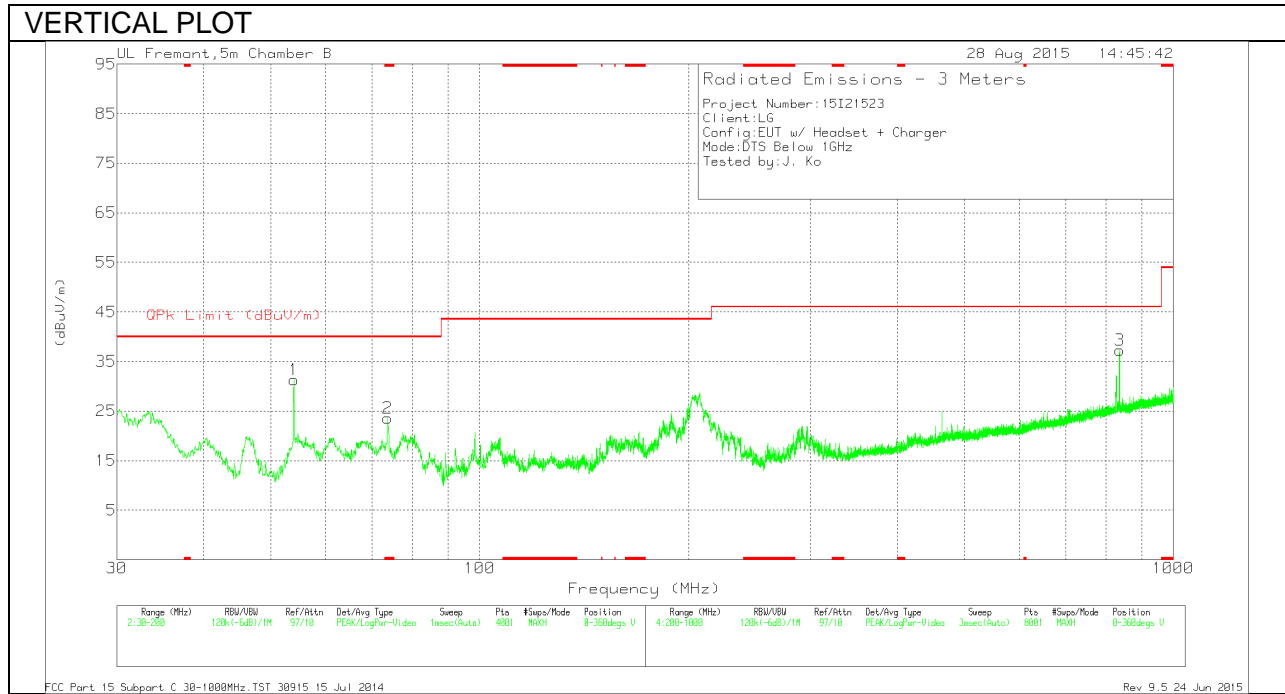
MAV1 - KDB558074 Option 1 Maximum RMS Average

10.3. WORST-CASE BELOW 1 GHz

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



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



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AFT243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 73.7325	43.84	Pk	8	-28.3	23.54	40	-16.46	0-360	101	V
1	54.0125	52.45	Pk	7.4	-28.5	31.35	40	-8.65	0-360	101	V
4	154.3125	39.46	Pk	12.4	-27.5	24.36	43.52	-19.16	0-360	199	H
5	211	49.67	Pk	10.5	-27	33.17	43.52	-10.35	0-360	101	H
6	292.2	40.9	Pk	13.3	-26.2	28	46.02	-18.02	0-360	101	H
3	837	39.63	Pk	21.9	-24.3	37.23	46.02	-8.79	0-360	199	V

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

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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

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

RESULTS

Refer to original report 15I21235-E4.