



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

CDMA WATCH + Bluetooth, DTS b/g

MODEL NUMBER: LG-VC200, LGVC200, VC200

FCC ID: ZNFVC200

REPORT NUMBER: 15I21066-E4

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Prepared for

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Date	Revisions	Revised By
---	7/27/15	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC.
EUT DESCRIPTION: CDMA WATCH + Bluetooth, DTS b/g
MODEL: LG-VC200, LGVC200, VC200
SERIAL NUMBER: 1ZRY9 (Conducted), 1ZRY8 (Radiated)
DATE TESTED: JUNE 24-30, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services 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, and KDB 558074 D01 v03r03, ANSI C63.10-2009 for FCC.

ANSI C63.10-2009 Deviation

Radiated spurious emission above 1GHz EUT height is 1.5m not 0.8m.

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 checked="" type="checkbox"/> Chamber C(IC: 2324B-3)	<input type="checkbox"/> Chamber F(IC: 2324B-6)
	<input 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:

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

4.3. MEASUREMENT UNCERTAINTY

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

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

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is CDMA WATCH + Bluetooth, DTS b/g

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	6.5	4.47
2412 - 2462	802.11g	5.2	3.31

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an LMA antenna, with a maximum gain of -2.12dBi.

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 X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

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

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	STA-U17WD	DS542312055	N/A

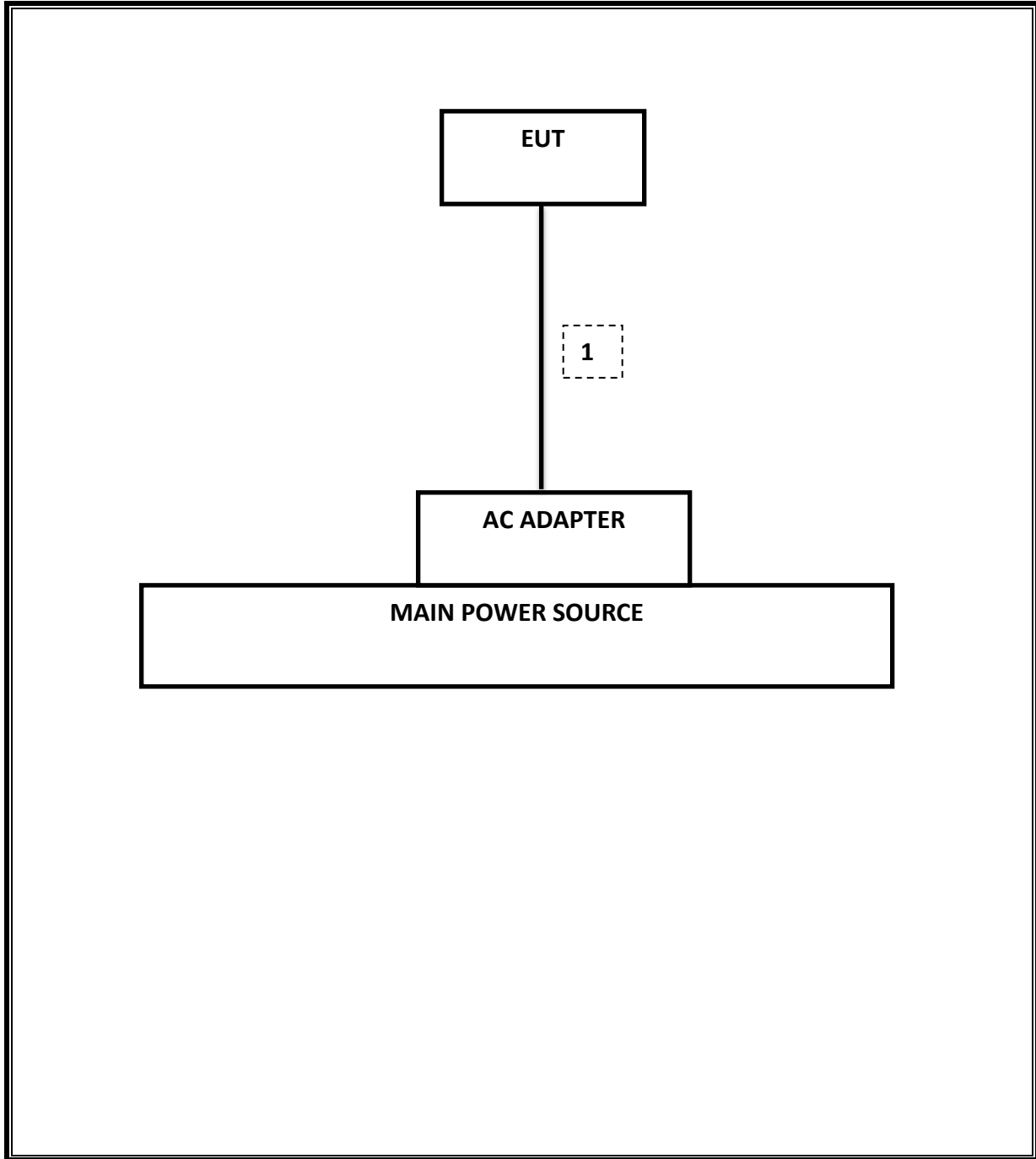
I/O CABLES

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
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/15
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/16
Antenna, Horn,18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15
Antenna, Horn, 26-40 GHz	ARA	MWH-2640/B	T446	05/12/15
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	F00351	06/27/15
AC Power Supply, 2,500VA 45-500Hz	Elgar-Ametek	CW2501M	F00013	CNR
RF Preamplifier, 1GHz - 40GHz	Miteq	NSP4000-SP2	C00990	08/20/15
Attenuator / Switch driver	HP	11713A	F00204	CNR
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	F00219	05/23/16
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, July 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 AVGPSD-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. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

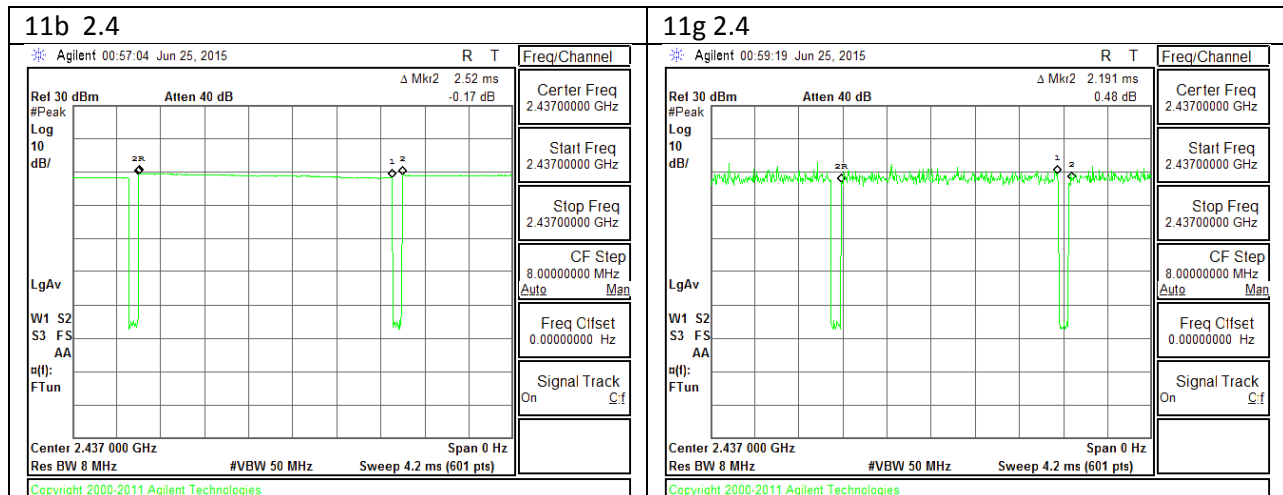
LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
802.11b	2.39	2.52	0.948	94.8%	0.23	0.418
802.11g	2.07	2.19	0.945	94.5%	0.24	0.483



8. SUMMARY TABLE

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	8.08 MHz
2.1051, 15.247 (d)	RSS-247 5.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-42.90dBm
15.247	RSS-247 5.4.4	TX conducted output power	<30dBm		Pass	6.5dBm
15.247	RSS-247 5.2.2	PSD	<8dBm		Pass	-15.97 dBm
15.207 (a)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10	Radiated	Pass	46.9dBuV
15.205, 15.209	RSS-GEN 8.9/7	Radiated Spurious Emission	< 54dBuV/m		Pass	43.16dBuV/m

9. ANTENNA PORT TEST RESULTS

9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

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

TEST PROCEDURE

Reference to KDB 558074 D01 DTS Meas Guidance v03r02: 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

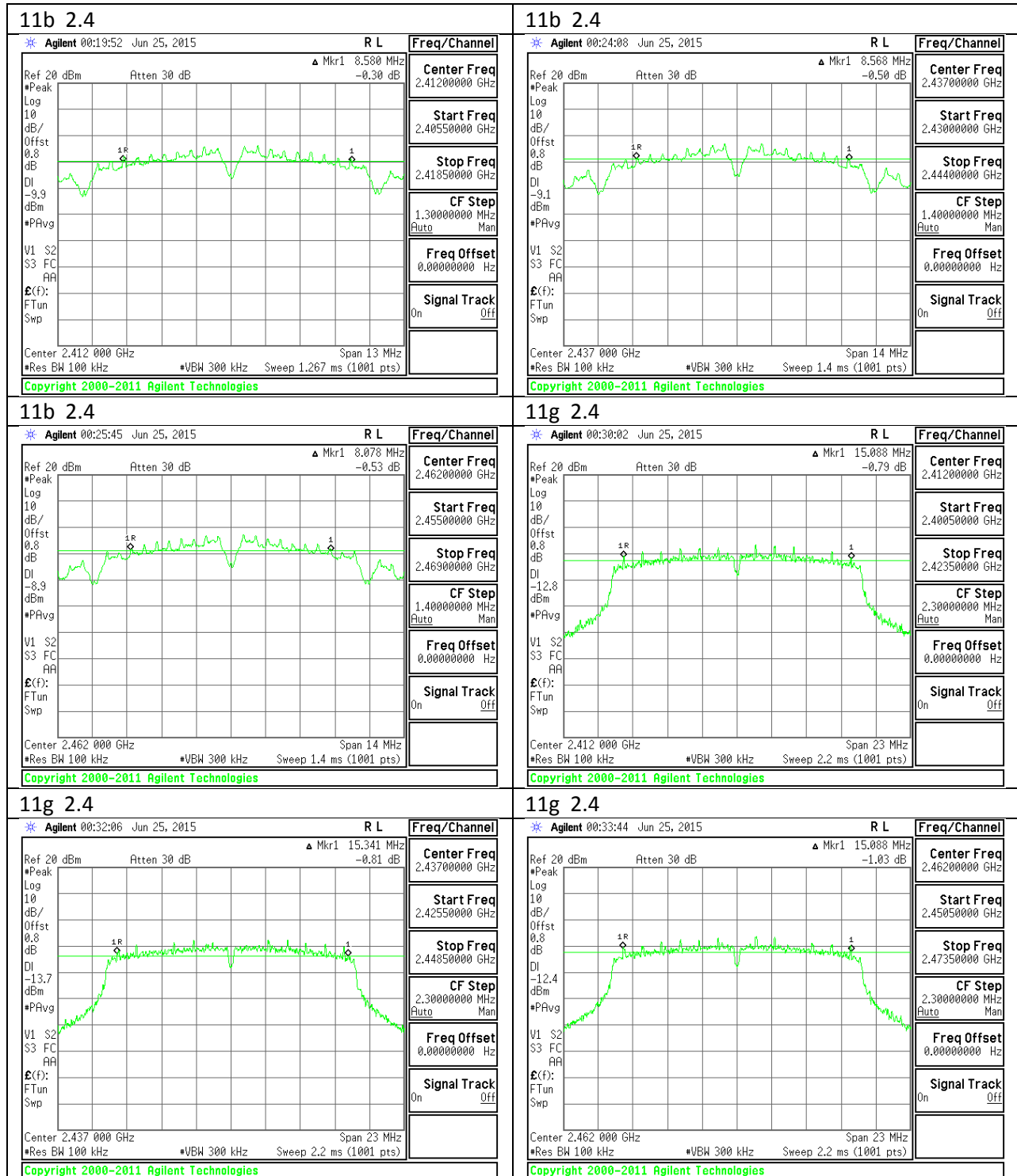
9.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	8.58	0.5
Mid	2437	8.57	0.5
High	2462	8.08	0.5
Worst		8.08	

9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.09	0.5
Mid	2437	15.34	0.5
High	2462	15.09	0.5
Worst		15.09	

9.1.3. 6 dB BANDWIDTH PLOTS



9.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

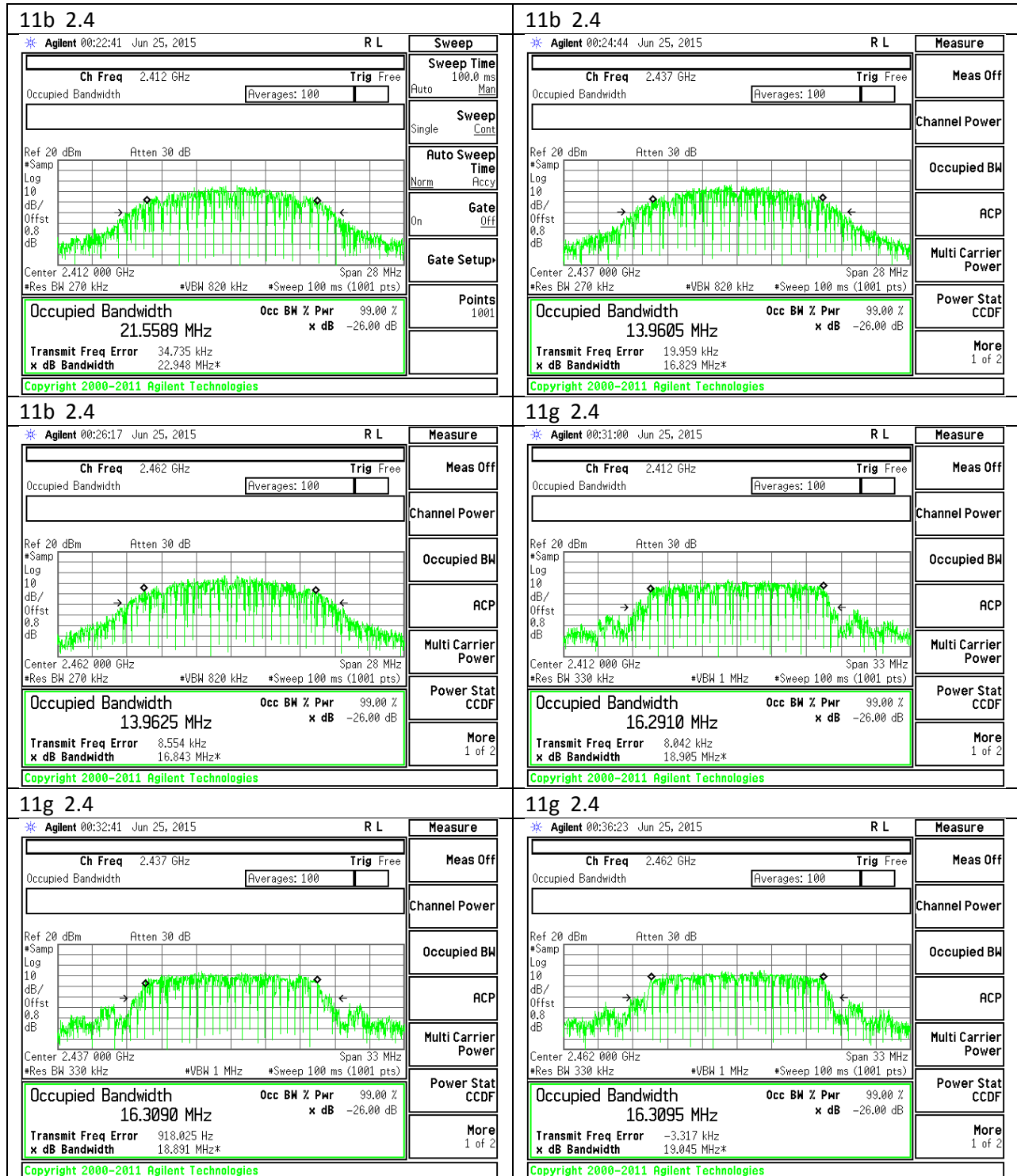
9.2.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	21.56
Mid	2437	13.96
High	2462	13.96
Worst		21.56

9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.29
Mid	2437	16.31
High	2462	16.31
Worst		16.31

9.2.3. 99% BANDWIDTH PLOTS



9.3. OUTPUT POWER

LIMITS

FCC §15.247

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

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

9.3.1. 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	-2.12	30.00	30	36	30.00
Mid	2437	-2.12	30.00	30	36	30.00
High	2462	-2.12	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	5.7	5.70	30.00	-24.30
Mid	2437	6.2	6.20	30.00	-23.80
High	2462	6.5	6.50	30.00	-23.50
Worst			6.50		

9.3.2. 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	-2.12	30.00	30	36	30.00
Mid	2437	-2.12	30.00	30	36	30.00
High	2462	-2.12	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low	2412	4.4	4.40	30.00	-25.60
Mid	2437	4.8	4.80	30.00	-25.20
High	2462	5.2	5.20	30.00	-24.80
Worst			5.20		

9.4. PSD

LIMITS

FCC §15.247

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

9.4.1. 802.11b MODE IN THE 2.4 GHz BAND

PSD Results

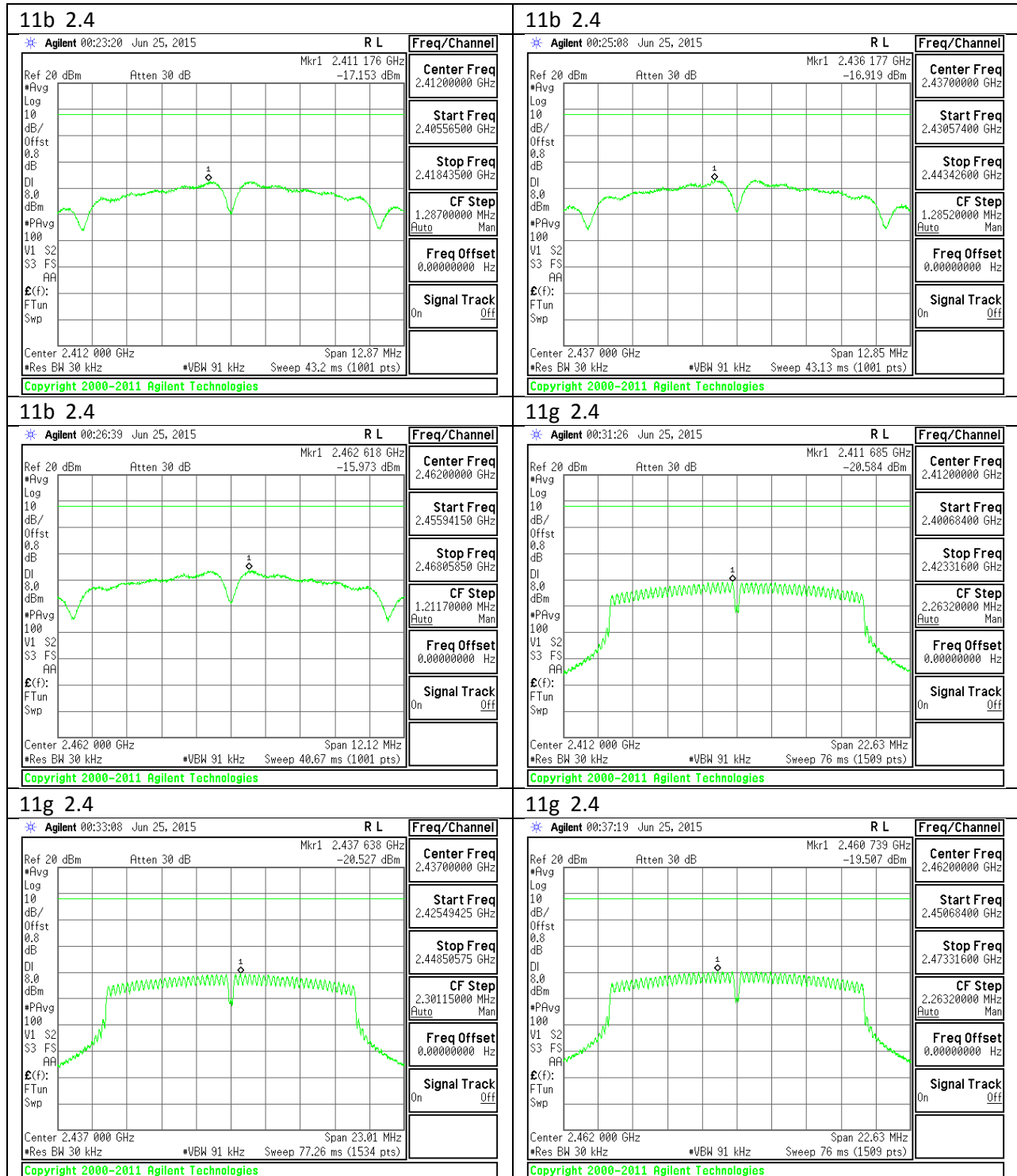
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-17.15	8.0	-25.2
Mid	2437	-16.92	8.0	-24.9
High	2462	-15.97	8.0	-24.0

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-20.58	8.0	-28.6
Mid	2437	-20.53	8.0	-28.5
High	2462	-19.51	8.0	-27.5

9.4.3. PSD Chain 0 PLOTS



9.5. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

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.

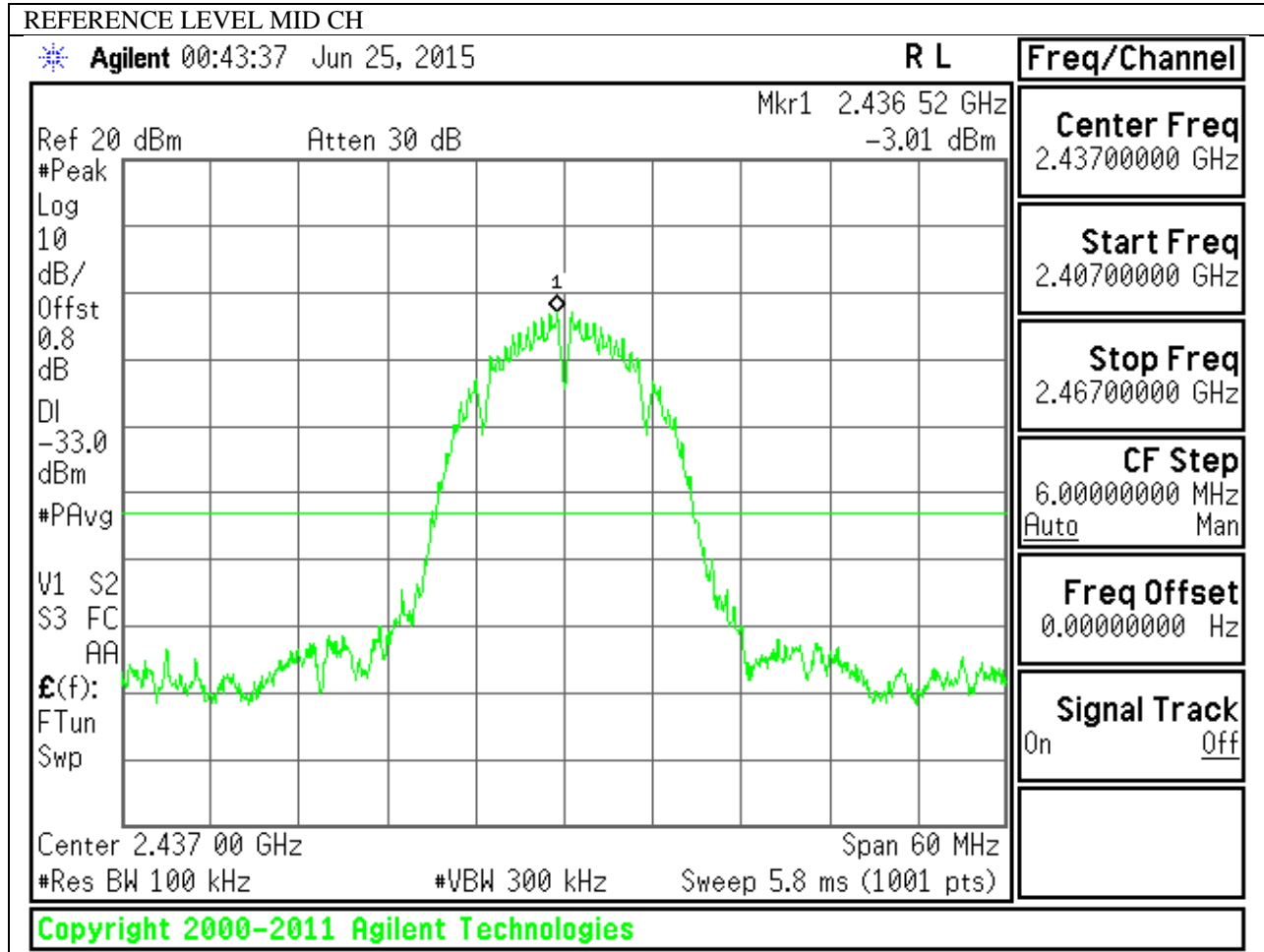
TEST PROCEDURE

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.

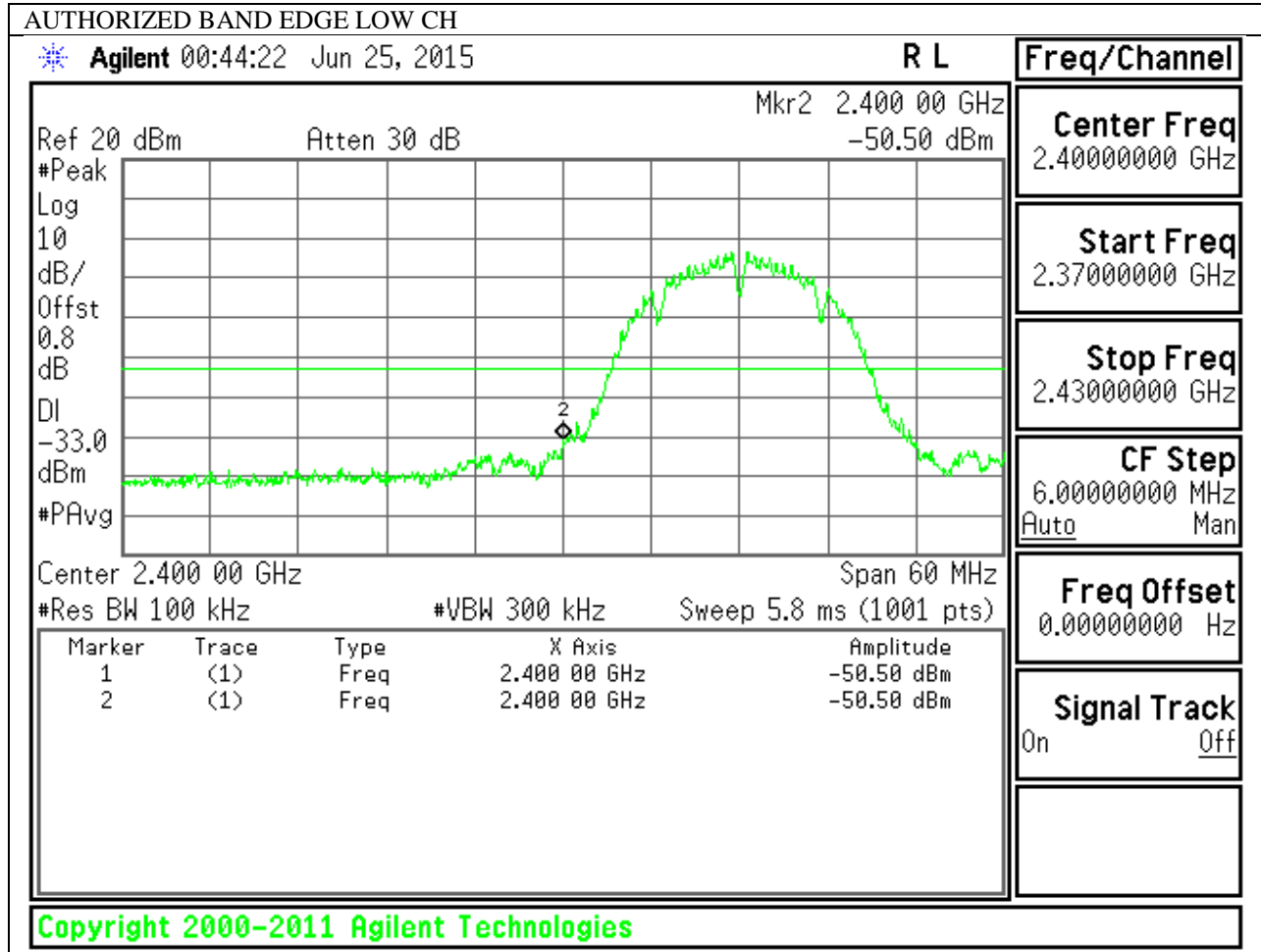
RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

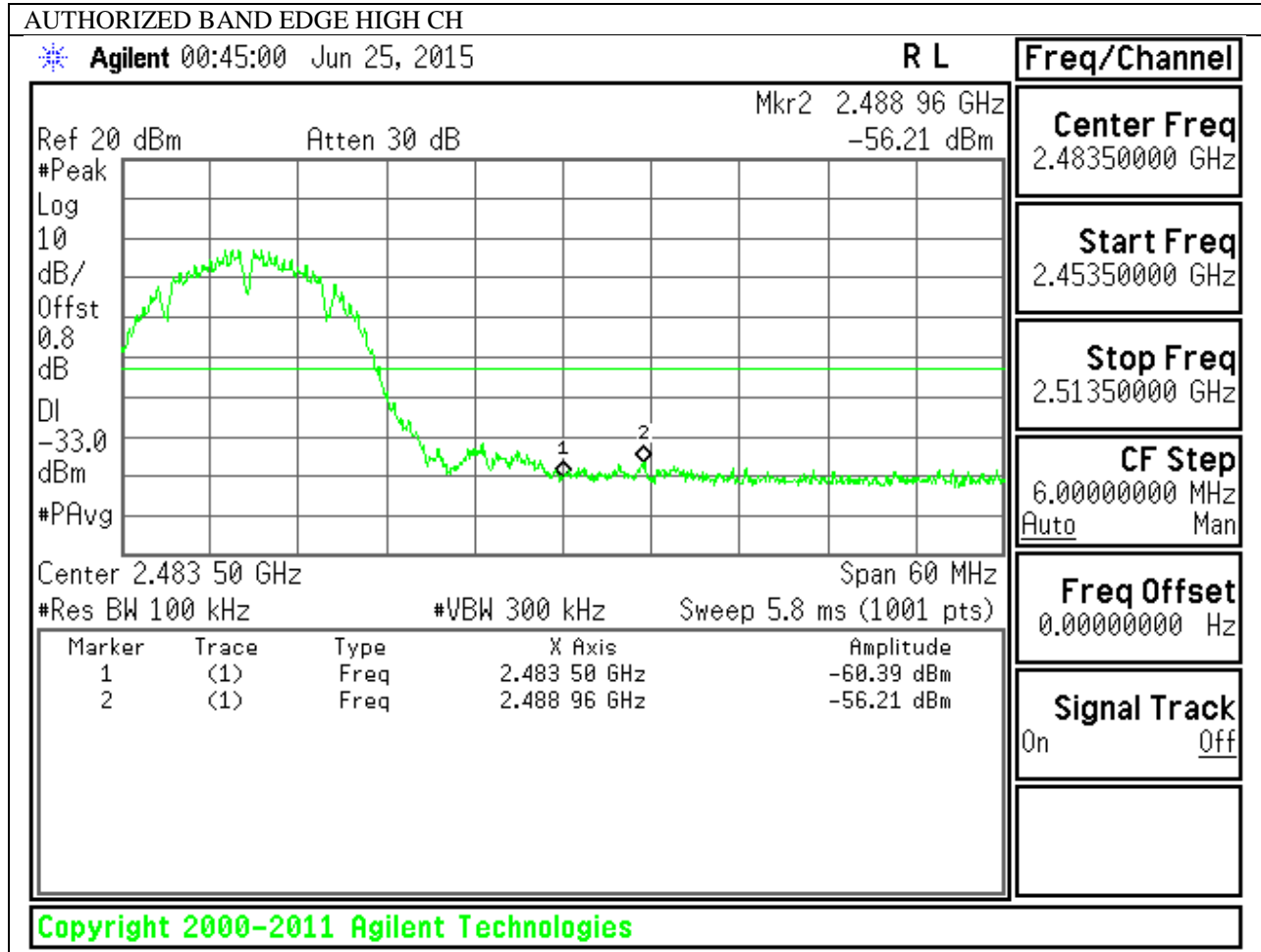
IN-BAND REFERENCE LEVEL



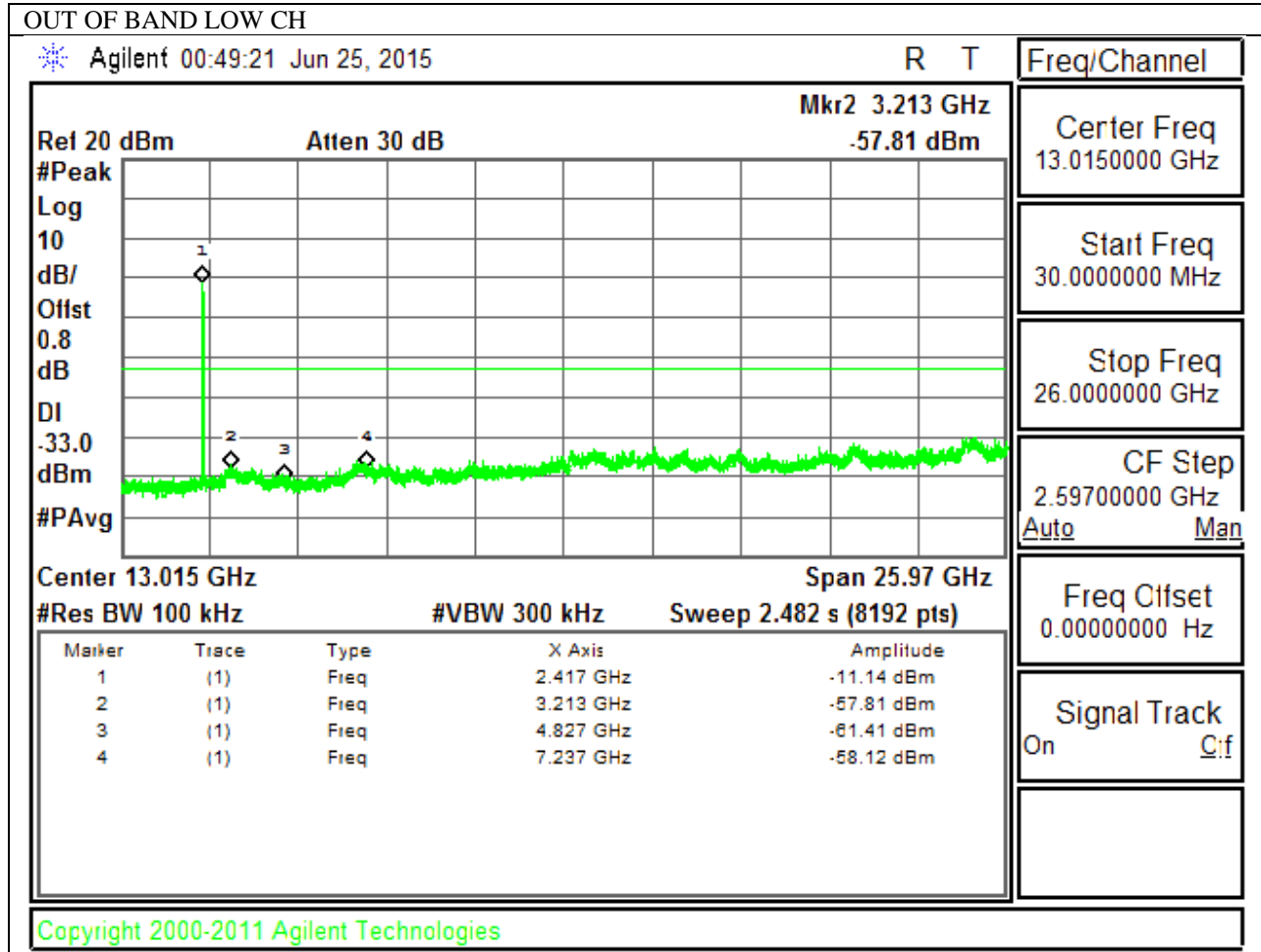
LOW CHANNEL BANDEDGE

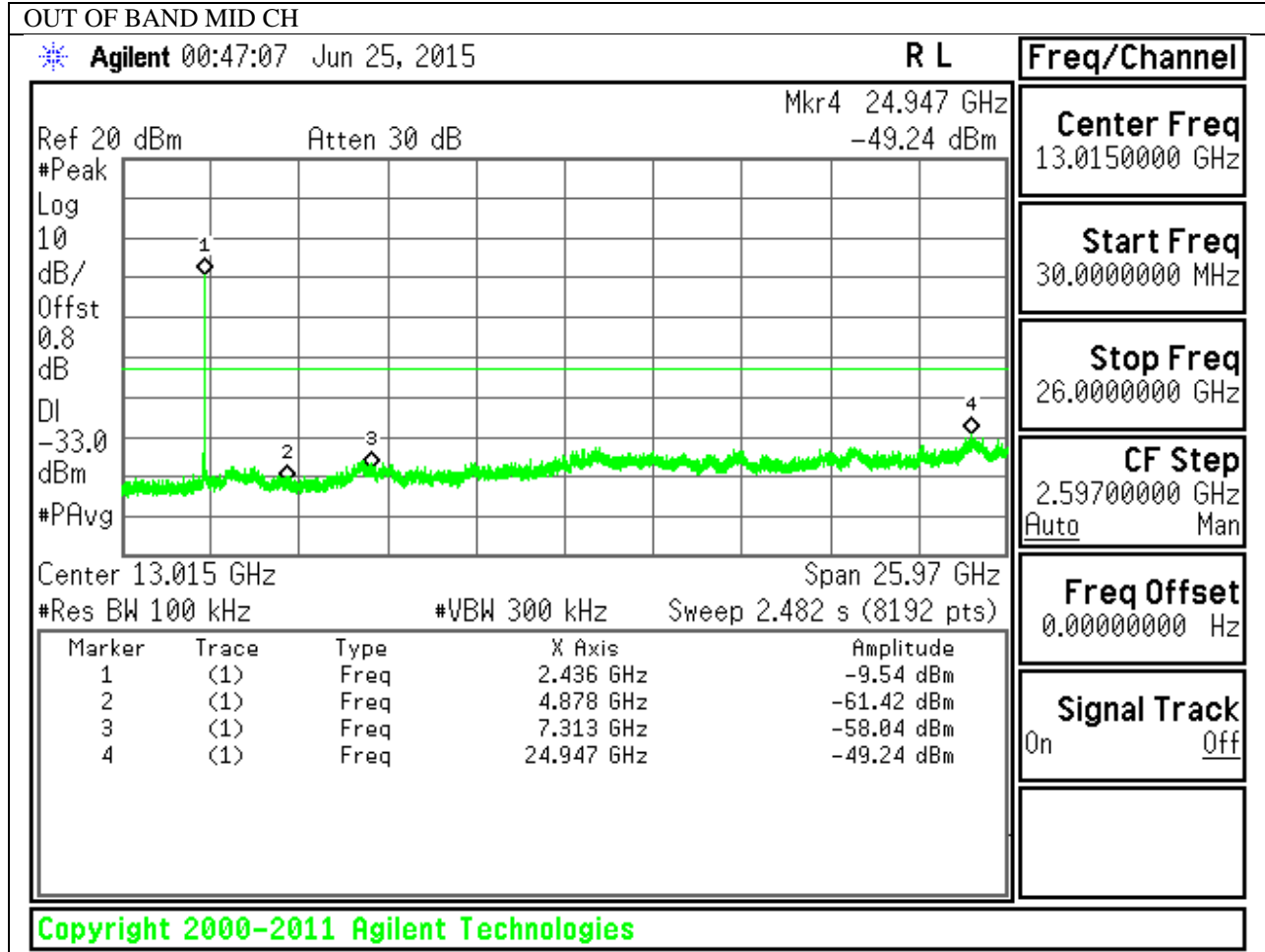


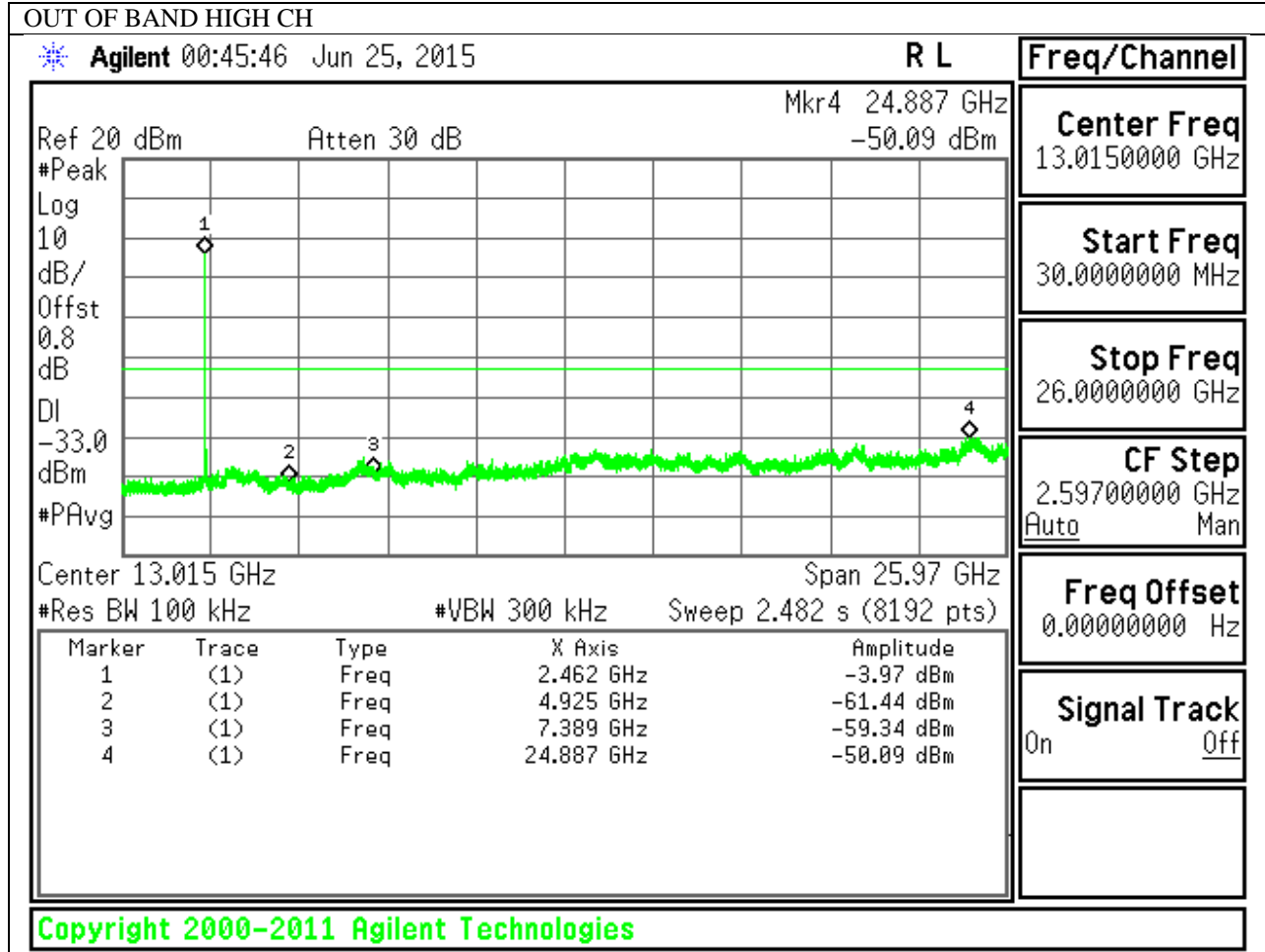
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

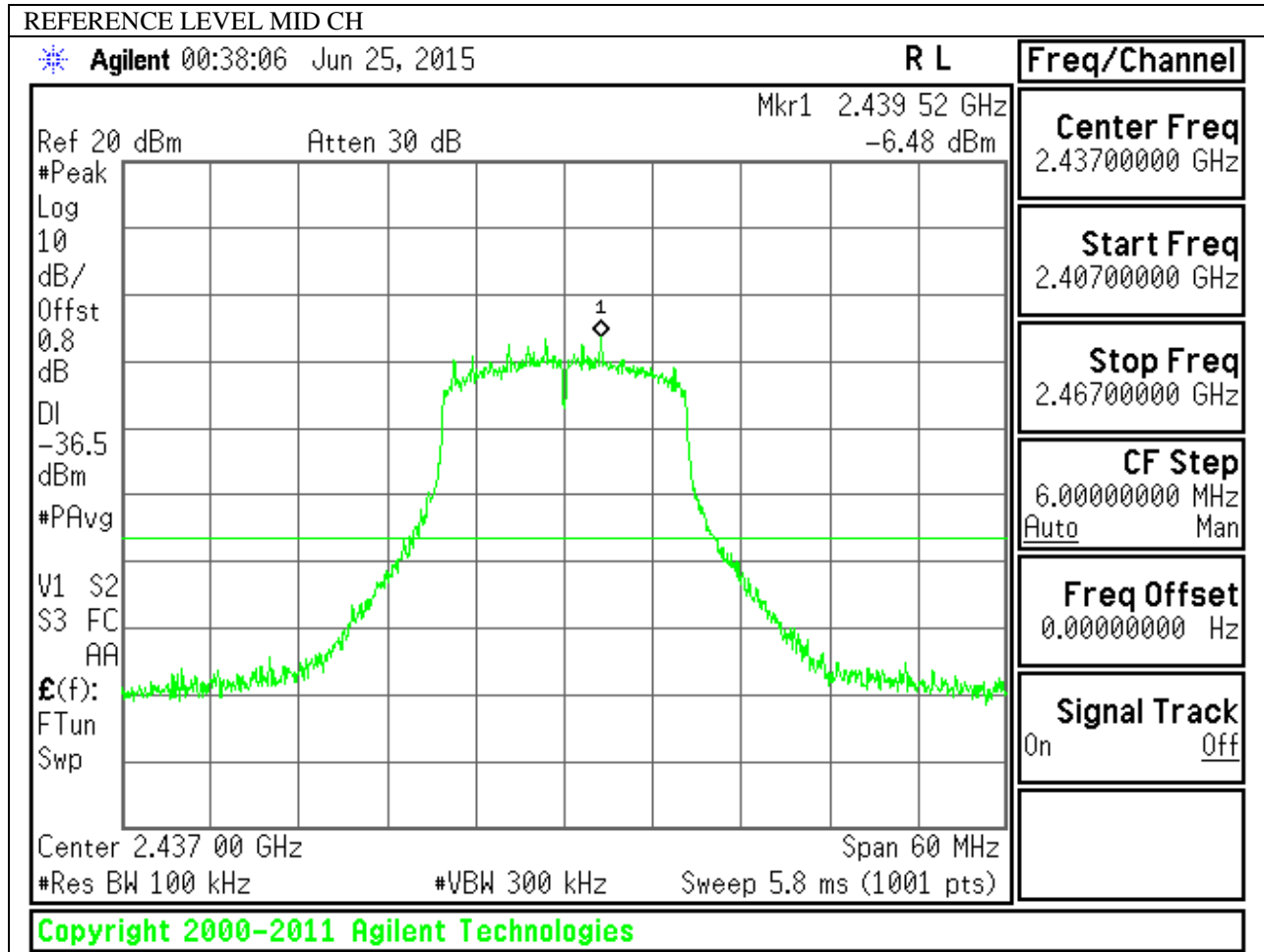




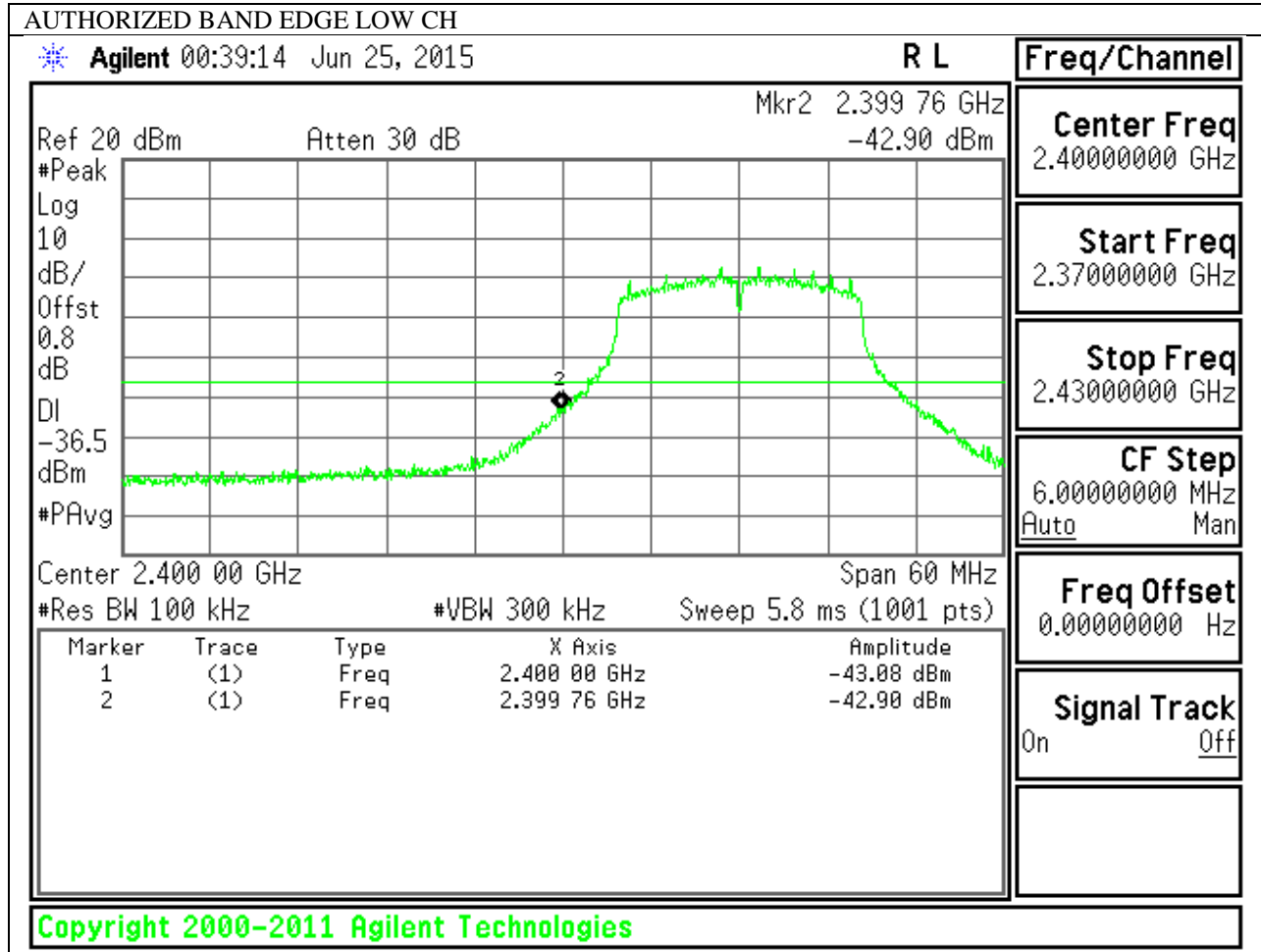


9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

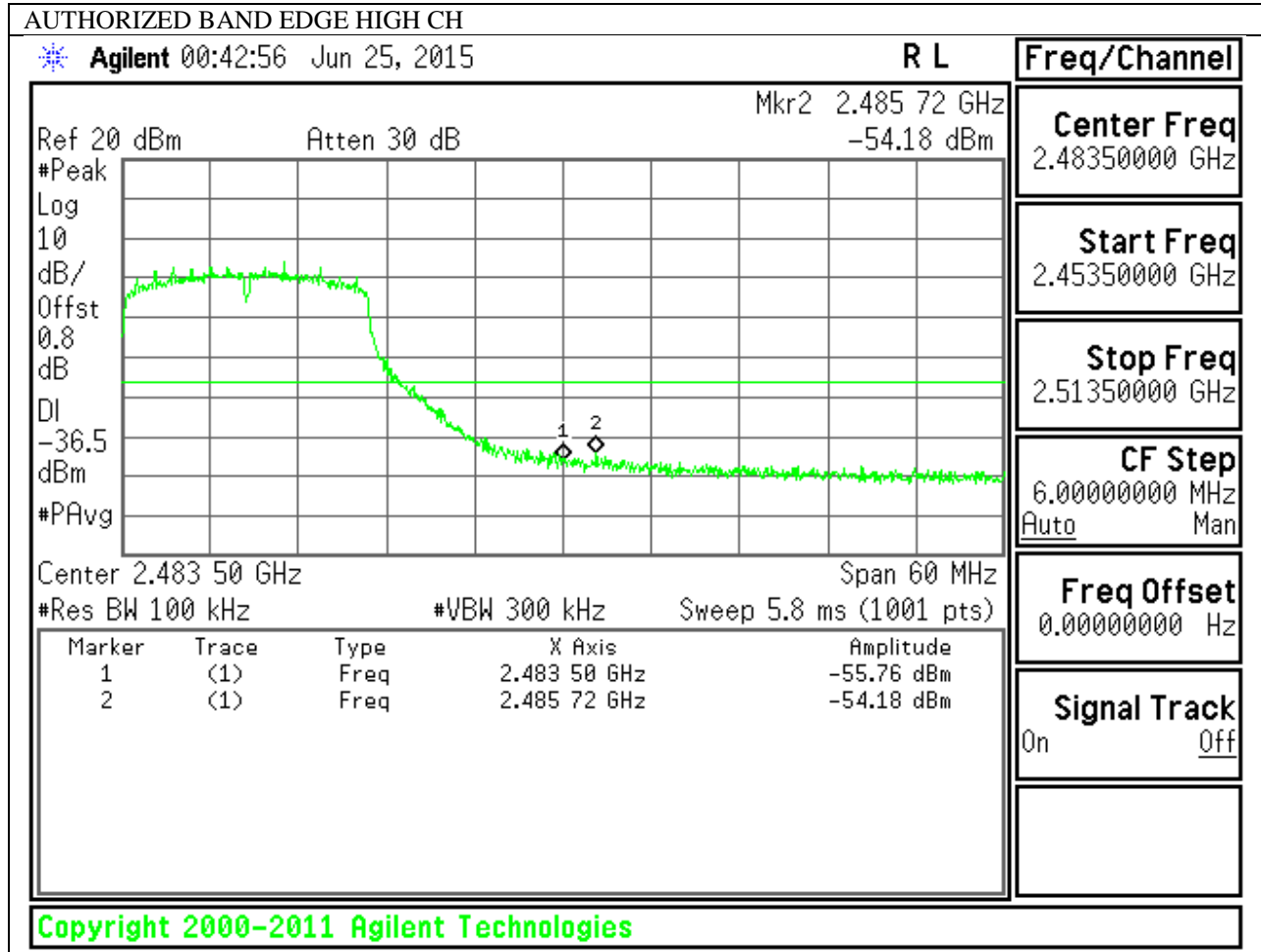
IN-BAND REFERENCE LEVEL



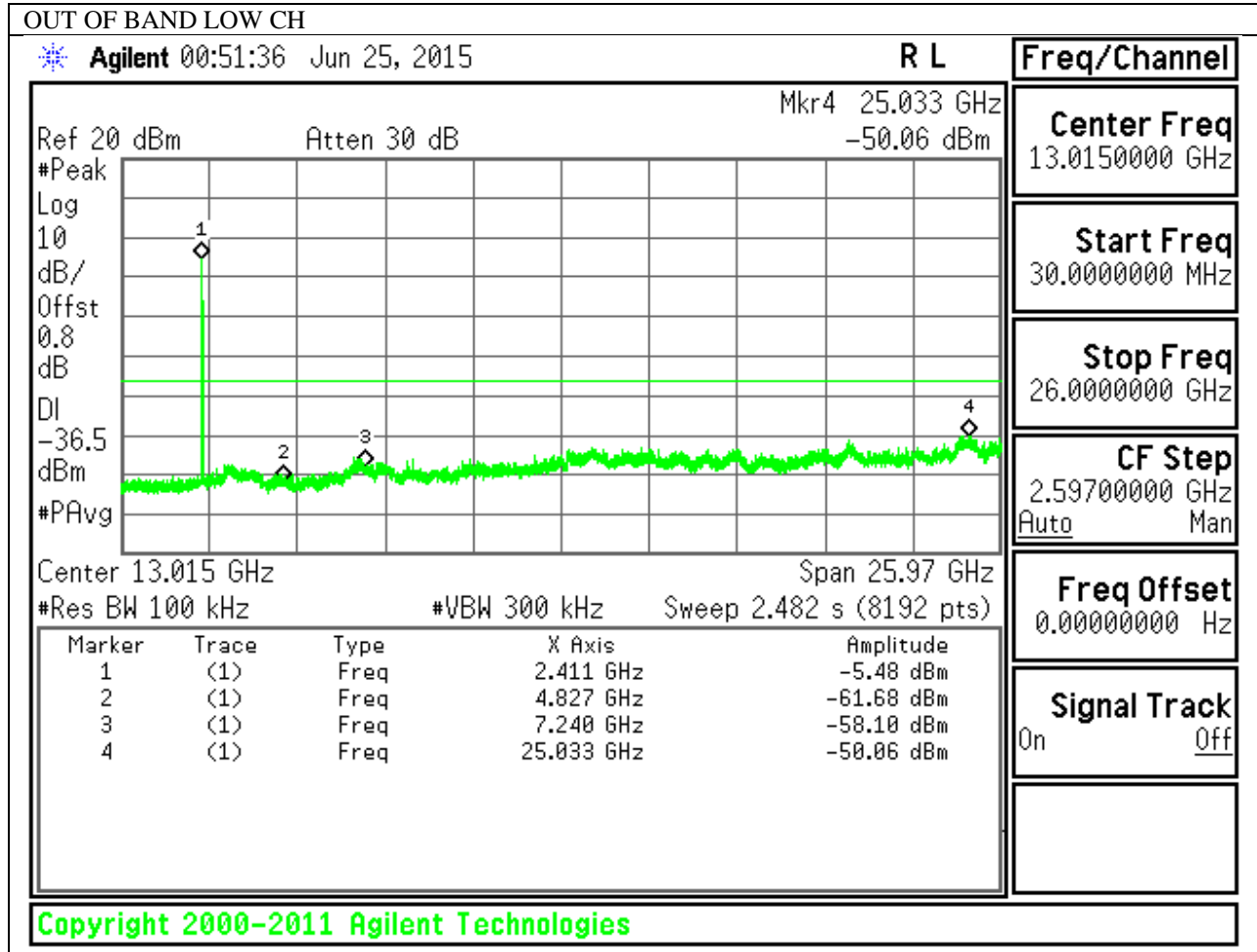
LOW CHANNEL BANDEDGE

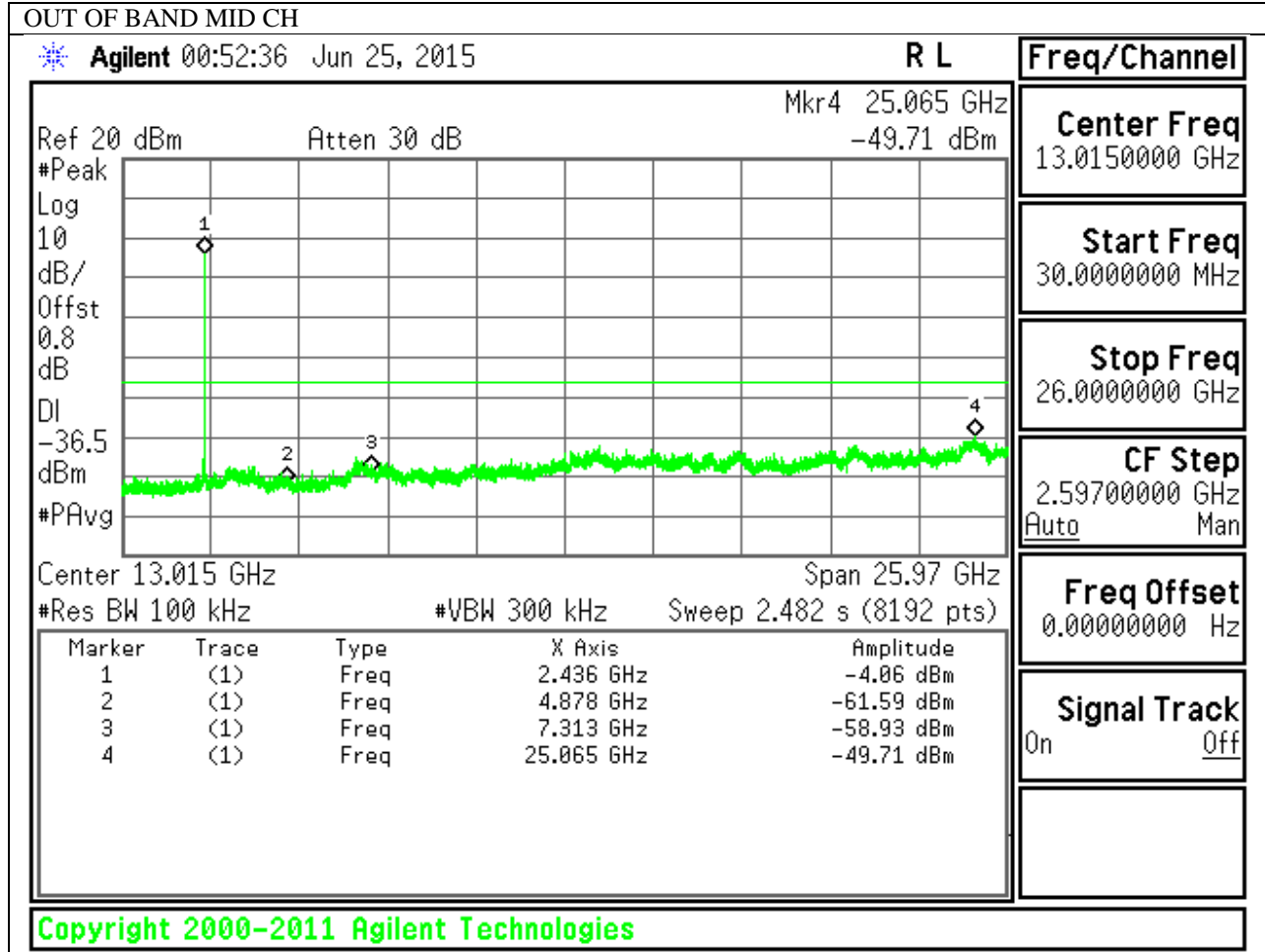


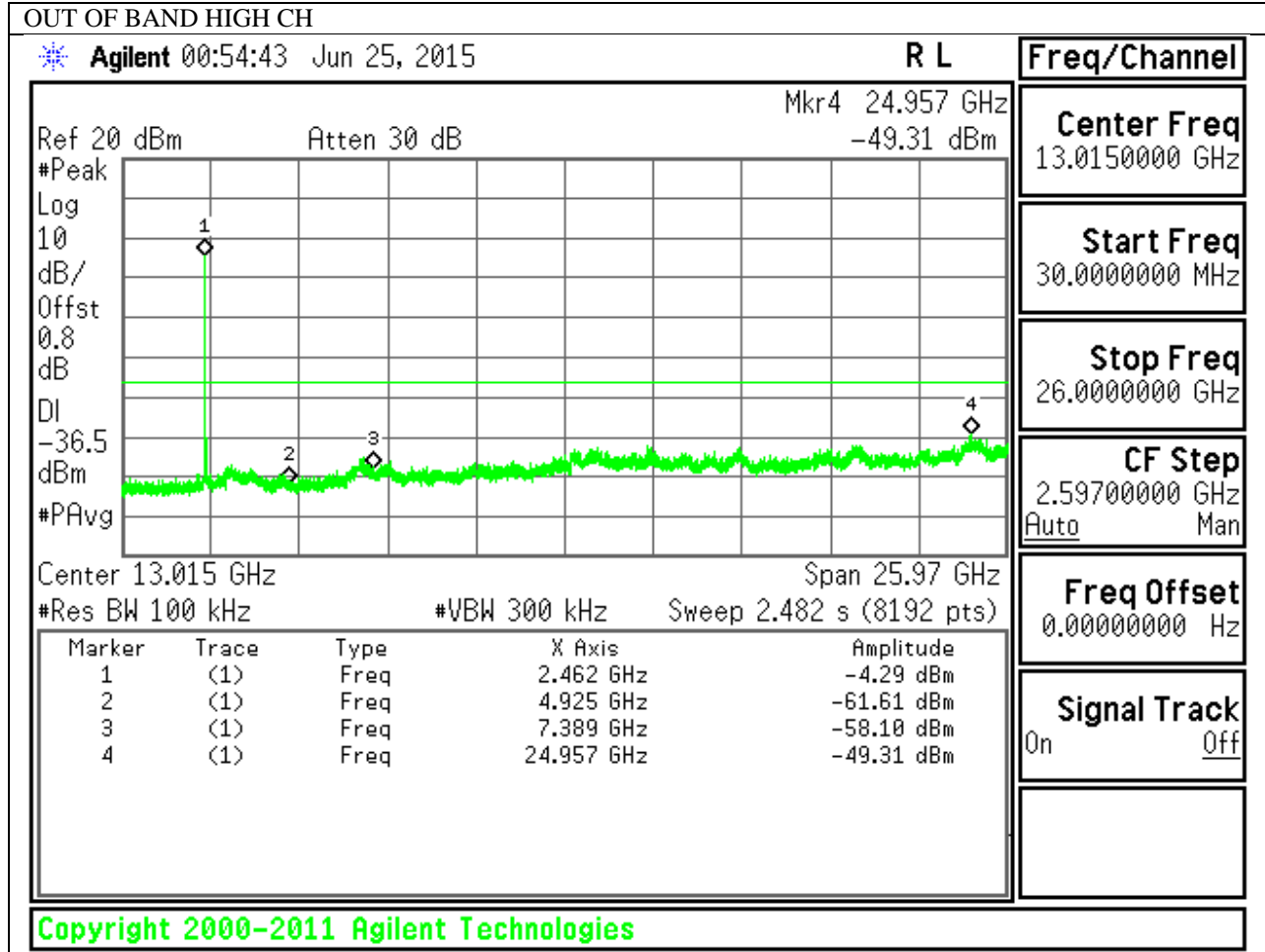
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS







10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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

TEST PROCEDURE

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

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

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 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 = 0.31dB; N mode = 0.33dB.

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

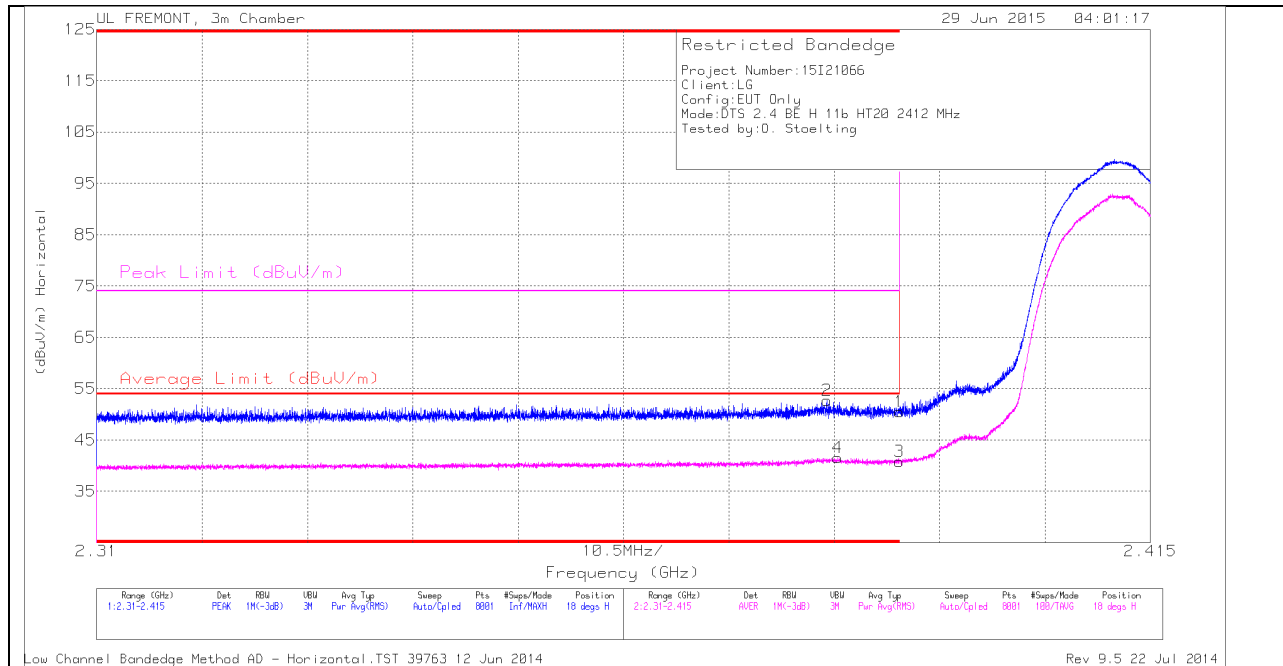
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

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)

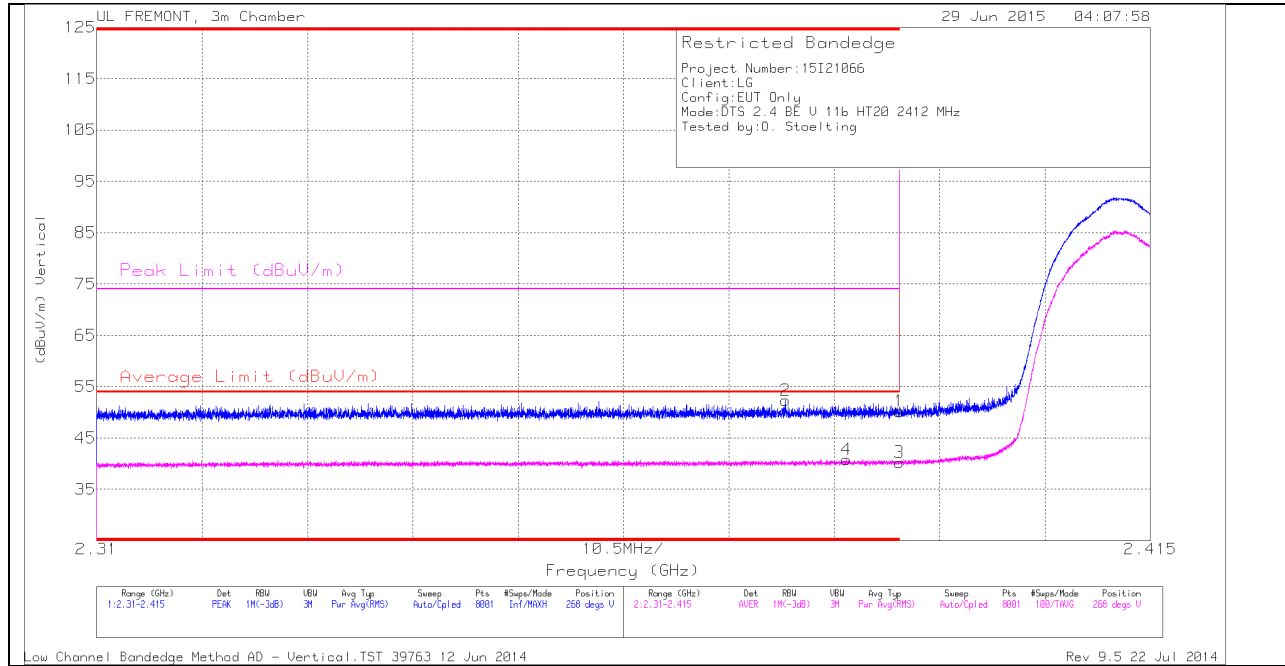
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.9	PK	32	-22.4	0	50.5	-	-	74	-23.5	18	116	H
2	* 2.383	43.13	PK	32	-22.4	0	52.73	-	-	74	-21.27	18	116	H
3	* 2.39	30.87	RMS	32	-22.4	.34	40.81	54	-13.19	-	-	18	116	H
4	* 2.384	31.59	RMS	32	-22.4	.34	41.53	54	-12.47	-	-	18	116	H

VERTICAL PEAK AND AVERAGE PLOT

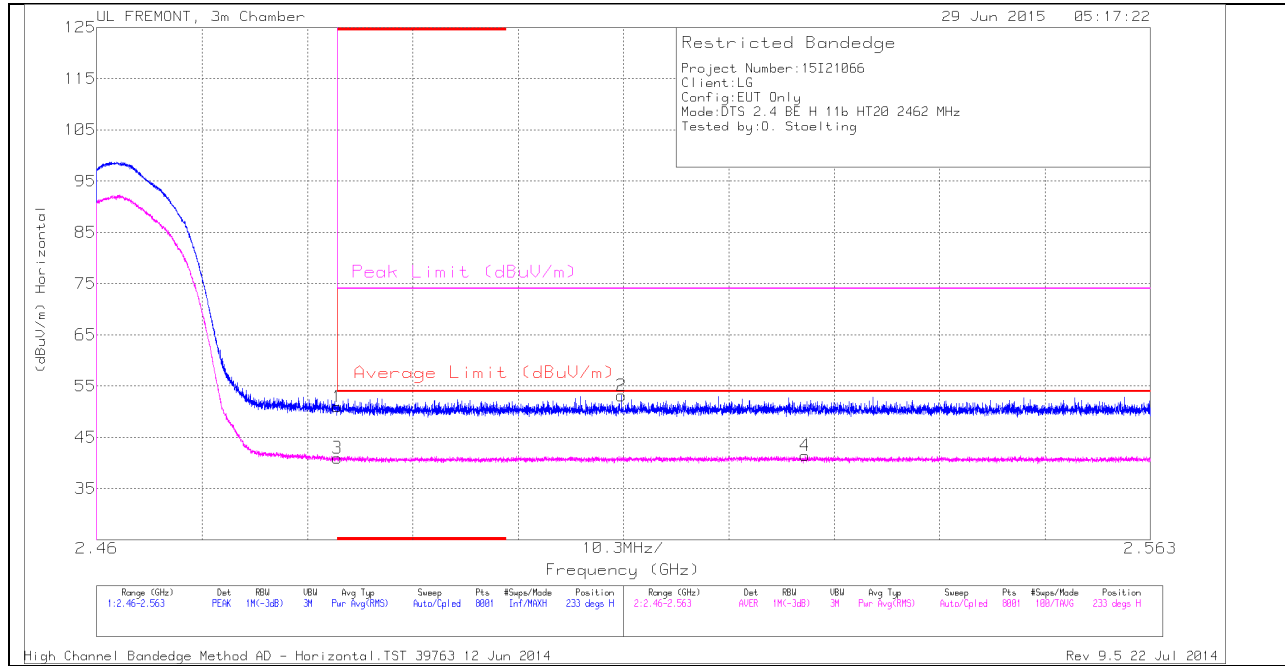


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.379	42.84	PK	31.9	-22.4	0	52.34	-	-	74	-21.66	268	398	V
4	* 2.385	30.85	RMS	32	-22.4	.34	40.79	54	-13.21	-	-	268	398	V
1	* 2.39	40.6	PK	32	-22.4	0	50.2	-	-	74	-23.8	268	398	V
3	* 2.39	30.29	RMS	32	-22.4	.34	40.23	54	-13.77	-	-	268	398	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

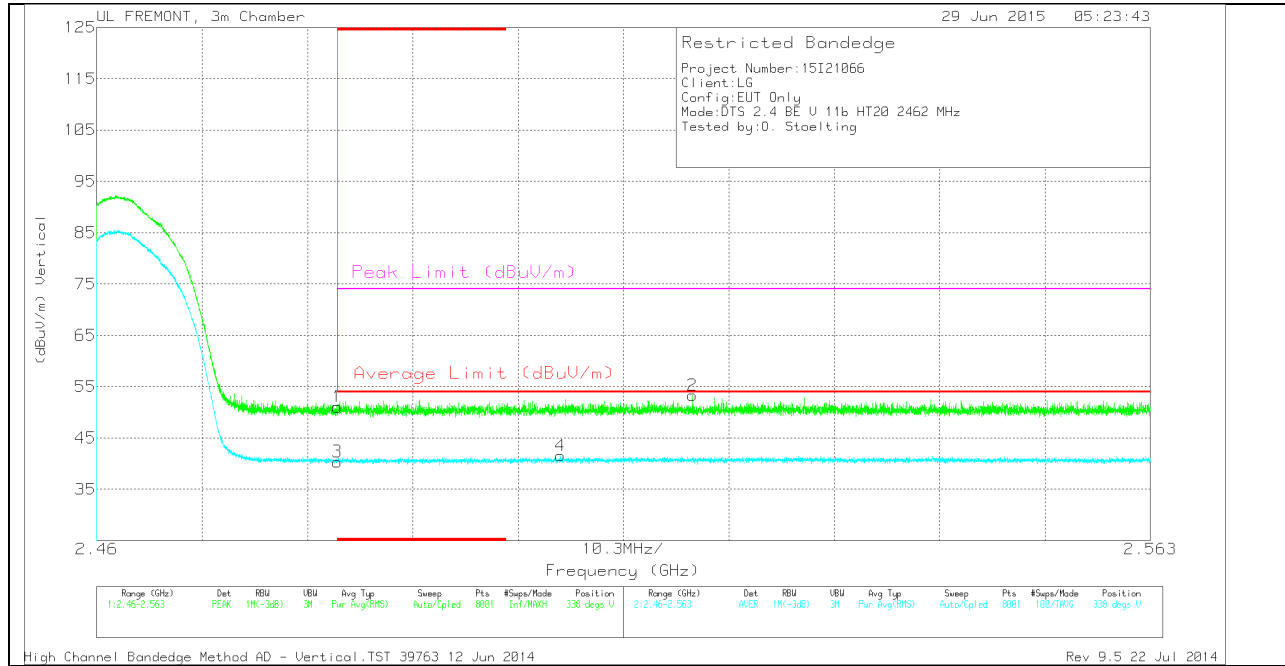
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.79	PK	32.3	-22.1	0	50.99	-	-	74	-23.01	233	357	H
3	* 2.484	30.42	RMS	32.3	-22.1	.34	40.96	54	-13.04	-	-	233	357	H
2	2.511	42.95	PK	32.3	-22.1	0	53.15	-	-	74	-20.85	233	357	H
4	2.529	30.71	RMS	32.4	-22	.34	41.45	54	-12.55	-	-	233	357	H

VERTICAL PEAK AND AVERAGE PLOT

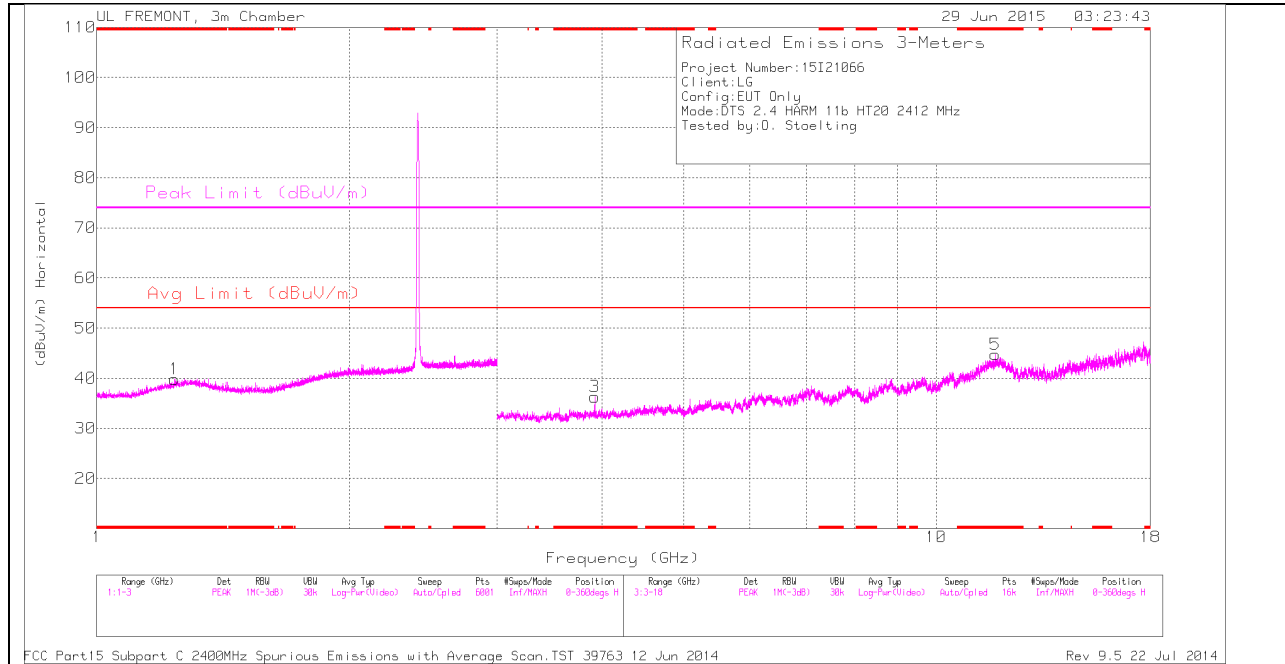


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	* 2.484	40.87	PK	32.3	-22.1	0	51.07	-	-	74	-22.93	338	353	V
3	* 2.484	29.82	RMS	32.3	-22.1	.34	40.36	54	-13.64	-	-	338	353	V
4	2.505	31	RMS	32.3	-22.1	.34	41.54	54	-12.46	-	-	338	353	V
2	2.518	43.13	PK	32.3	-22.1	0	53.33	-	-	74	-20.67	338	353	V

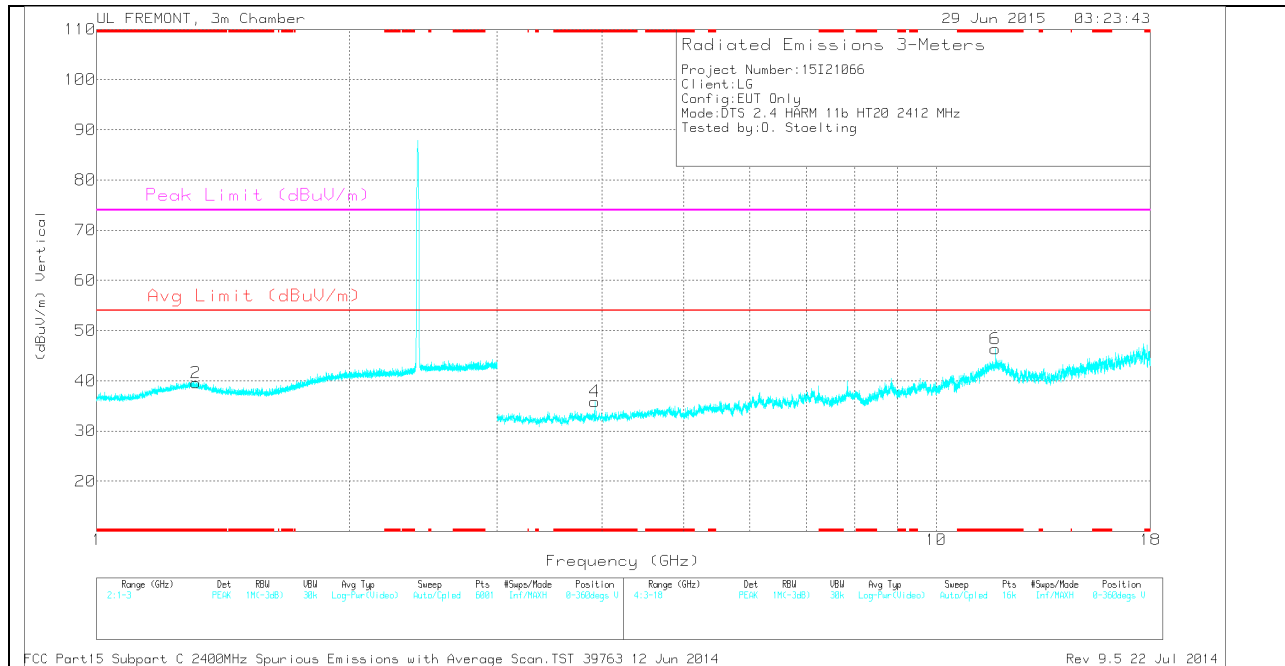
HARMONICS AND SPURIOUS EMISSIONS

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

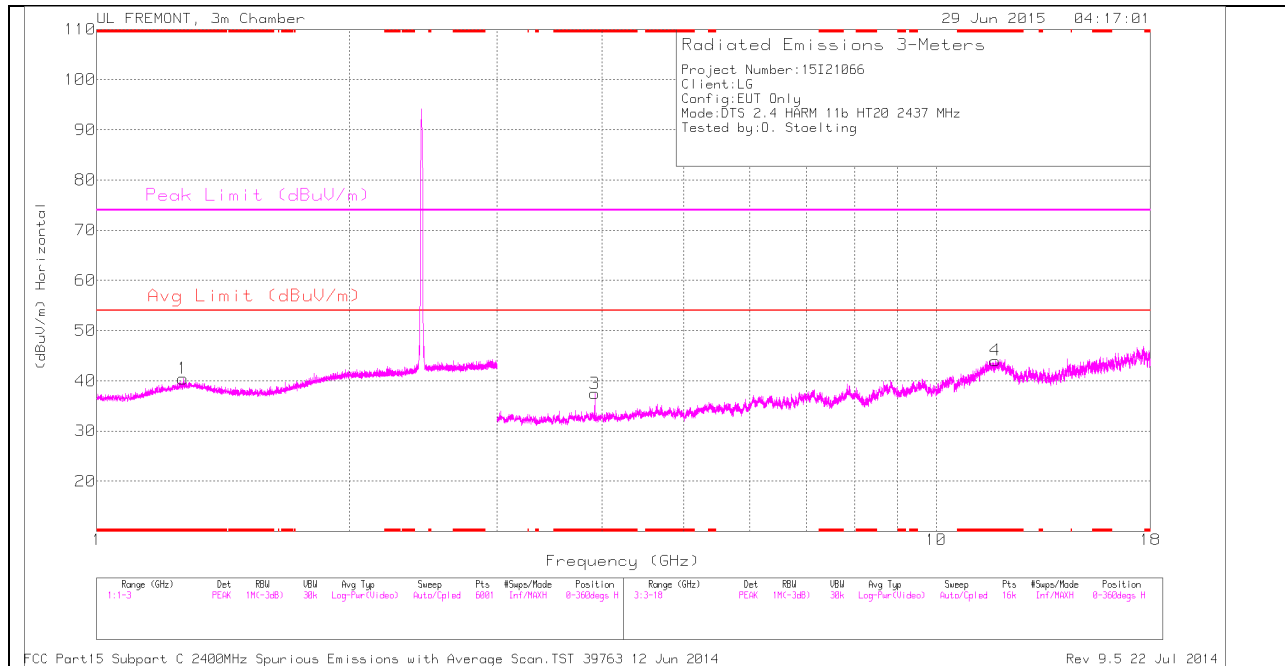
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.238	33.61	PK	29.3	-23.1	0	39.81	-	-	74	-34.19	0-360	100	H
2	* 1.312	33.09	PK	29.7	-23.2	0	39.59	-	-	74	-34.41	0-360	100	V
3	* 3.92	33.6	PK	33.2	-30.5	0	36.3	-	-	74	-37.7	0-360	200	H
5	* 11.76	28.05	PK	38.9	-22.2	0	44.75	-	-	74	-29.25	0-360	100	H
4	* 3.92	33.18	PK	33.2	-30.5	0	35.88	-	-	74	-38.12	0-360	200	V
6	* 11.76	29.7	PK	38.9	-22.2	0	46.4	-	-	74	-27.6	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

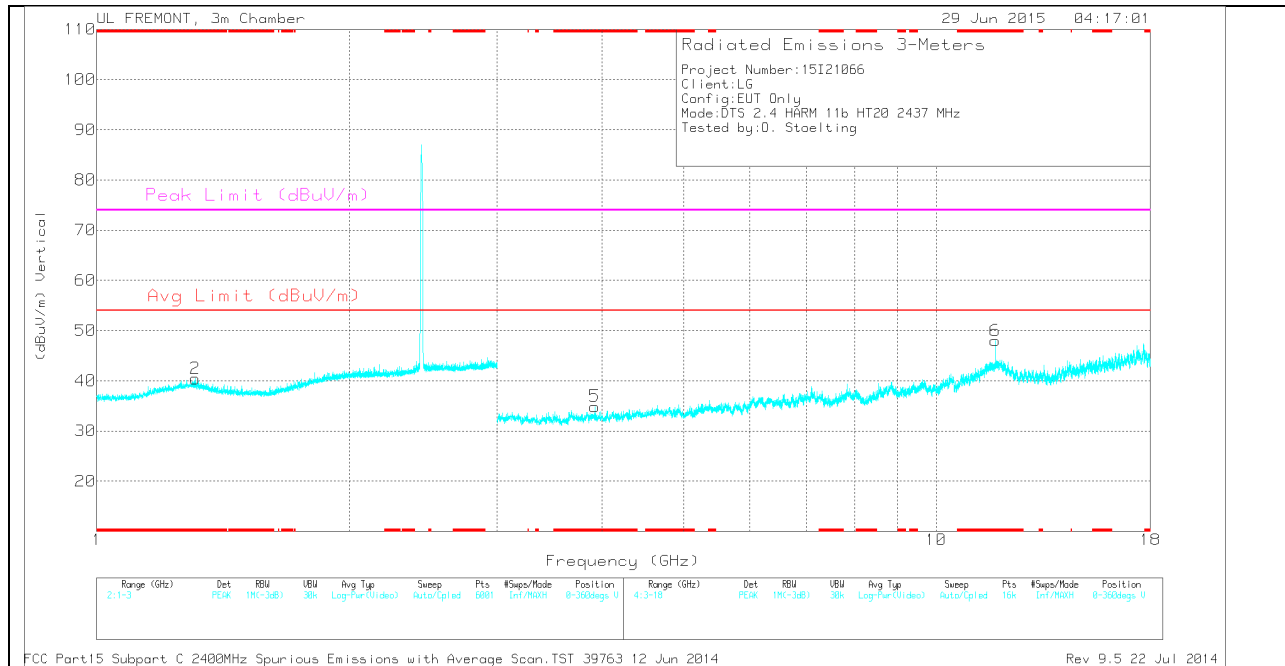
Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.236	42.03	PK2	29.3	-23.2	0	48.13	-	-	74	-25.87	360	100	H
* 1.24	30.94	MAV1	29.3	-23.1	.34	37.48	54	-16.52	-	-	360	100	H
* 1.313	42.5	PK2	29.7	-23.2	0	49	-	-	74	-25	360	100	V
* 1.311	30.9	MAV1	29.7	-23.2	.34	37.74	54	-16.26	-	-	360	100	V
* 3.918	40.3	PK2	33.2	-30.5	0	43	-	-	74	-31	217	400	H
* 3.918	28.26	MAV1	33.2	-30.5	.34	31.3	54	-22.7	-	-	217	400	H
* 11.761	37.21	PK2	38.9	-22.2	0	53.91	-	-	74	-20.09	200	139	H
* 11.759	24.74	MAV1	38.9	-22.2	.34	41.78	54	-12.22	-	-	200	139	H
* 3.919	40.24	PK2	33.2	-30.5	0	42.94	-	-	74	-31.06	58	202	V
* 3.918	28.17	MAV1	33.2	-30.5	.34	31.21	54	-22.79	-	-	58	202	V
* 11.76	36.46	PK2	38.9	-22.2	0	53.16	-	-	74	-20.84	81	390	V
* 11.758	24.81	MAV1	38.9	-22.2	.34	41.85	54	-12.15	-	-	81	390	V

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

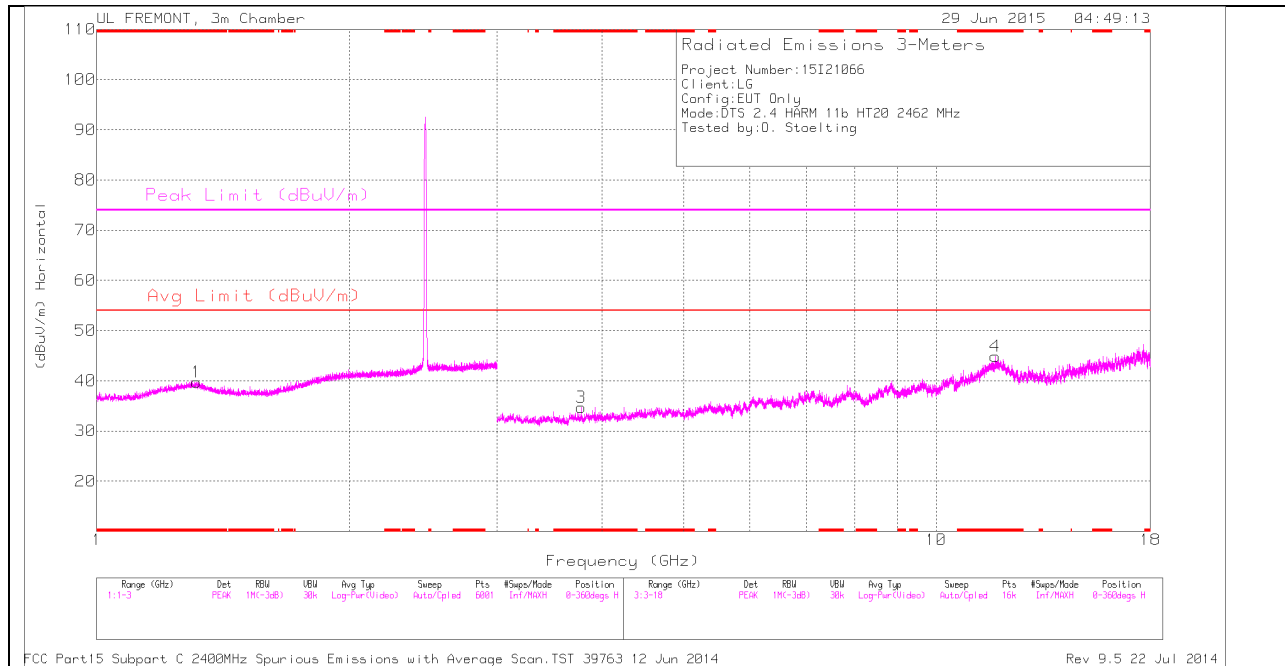
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.267	34.03	PK	29.6	-23.2	0	40.43	-	-	74	-33.57	0-360	200	H
2	* 1.31	33.74	PK	29.8	-23.1	0	40.44	-	-	74	-33.56	0-360	100	V
4	* 11.76	27.36	PK	38.9	-22.2	0	44.06	-	-	74	-29.94	0-360	100	H
6	* 11.76	31.27	PK	38.9	-22.2	0	47.97	-	-	74	-26.03	0-360	100	V
3	* 3.92	34.79	PK	33.2	-30.5	0	37.49	-	-	74	-36.51	0-360	100	H
5	* 3.92	32.19	PK	33.2	-30.5	0	34.89	-	-	74	-39.11	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

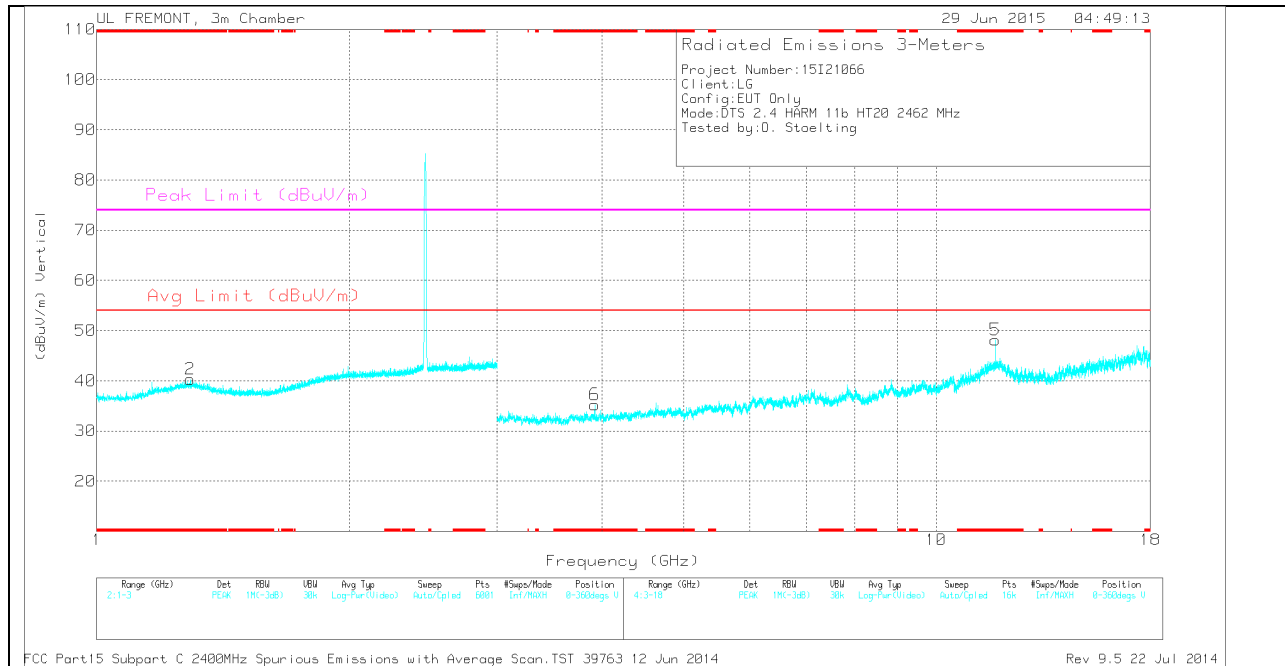
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.267	42.66	PK2	29.6	-23.2	0	49.06	-	-	74	-24.94	360	200	H
* 1.267	30.97	MAV1	29.6	-23.2	.34	37.71	54	-16.29	-	-	360	200	H
* 1.309	42.72	PK2	29.8	-23.1	0	49.42	-	-	74	-24.58	360	100	V
* 1.311	31.01	MAV1	29.7	-23.1	.34	37.95	54	-16.05	-	-	360	100	V
* 3.918	40.16	PK2	33.2	-30.5	0	42.86	-	-	74	-31.14	153	146	H
* 3.919	28.15	MAV1	33.2	-30.5	.34	31.19	54	-22.81	-	-	153	146	H
* 11.759	37.08	PK2	38.9	-22.2	0	53.78	-	-	74	-20.22	32	142	H
* 11.759	24.67	MAV1	38.9	-22.2	.34	41.71	54	-12.29	-	-	32	142	H
* 3.919	40.26	PK2	33.2	-30.5	0	42.96	-	-	74	-31.04	271	390	V
* 3.918	28.23	MAV1	33.2	-30.5	.34	31.27	54	-22.73	-	-	271	390	V
* 11.758	36.4	PK2	38.9	-22.2	0	53.1	-	-	74	-20.9	72	155	V
* 11.759	24.7	MAV1	38.9	-22.2	.34	41.74	54	-12.26	-	-	72	155	V

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	AFT119 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.315	33.25	PK	29.7	-23.2	0	39.75	-	-	74	-34.25	0-360	200	H
2	* 1.292	33.6	PK	29.8	-23.1	0	40.3	-	-	74	-33.7	0-360	100	V
3	* 3.778	31.8	PK	33.1	-30.2	0	34.7	-	-	74	-39.3	0-360	100	H
4	* 11.76	28.18	PK	38.9	-22.2	0	44.88	-	-	74	-29.12	0-360	200	H
5	* 11.76	31.46	PK	38.9	-22.2	0	48.16	-	-	74	-25.84	0-360	100	V
6	* 3.92	32.54	PK	33.2	-30.5	0	35.24	-	-	74	-38.76	0-360	100	V

PK - Peak detector

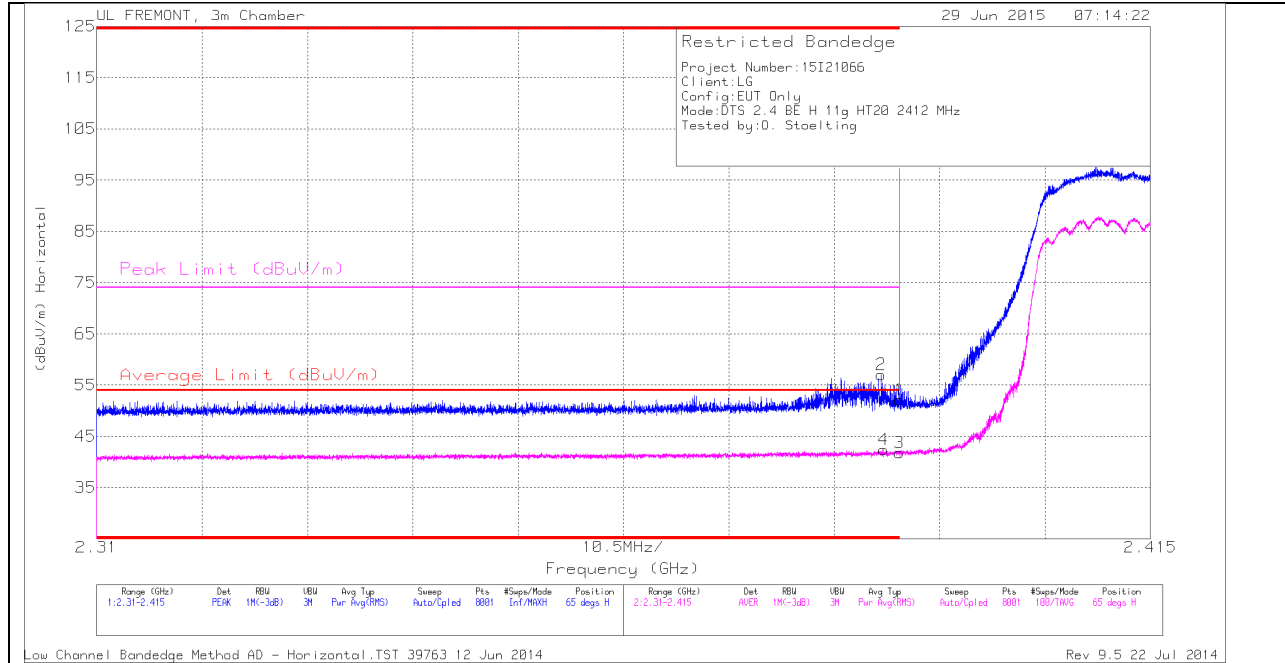
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (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)	Azimuth (Degs)	Height (cm)	Polarity
* 1.314	42.97	PK2	29.7	-23.2	0	49.47	-	-	74	-24.53	49	200	H
* 1.314	31.11	MAV1	29.7	-23.2	.34	37.95	54	-16.05	-	-	49	200	H
* 1.291	42.72	PK2	29.8	-23.1	0	49.42	-	-	74	-24.58	49	100	V
* 1.293	30.9	MAV1	29.8	-23.1	.34	37.94	54	-16.06	-	-	49	100	V
* 11.76	37.02	PK2	38.9	-22.2	0	53.72	-	-	74	-20.28	270	382	H
* 11.759	24.89	MAV1	38.9	-22.2	.34	41.93	54	-12.07	-	-	270	382	H
* 3.778	40.27	PK2	33.1	-30.2	0	43.17	-	-	74	-30.83	49	100	H
* 3.779	28.62	MAV1	33.1	-30.2	.34	31.86	54	-22.14	-	-	49	100	H
* 11.76	36.28	PK2	38.9	-22.2	0	52.98	-	-	74	-21.02	49	330	V
* 11.76	24.66	MAV1	38.9	-22.2	.34	41.7	54	-12.3	-	-	49	330	V
* 3.919	40	PK2	33.2	-30.5	0	42.7	-	-	74	-31.3	49	100	V
* 3.919	28.61	MAV1	33.2	-30.5	.34	31.65	54	-22.35	-	-	49	100	V

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

RESTRICTED BANDEGE (LOW CHANNEL)

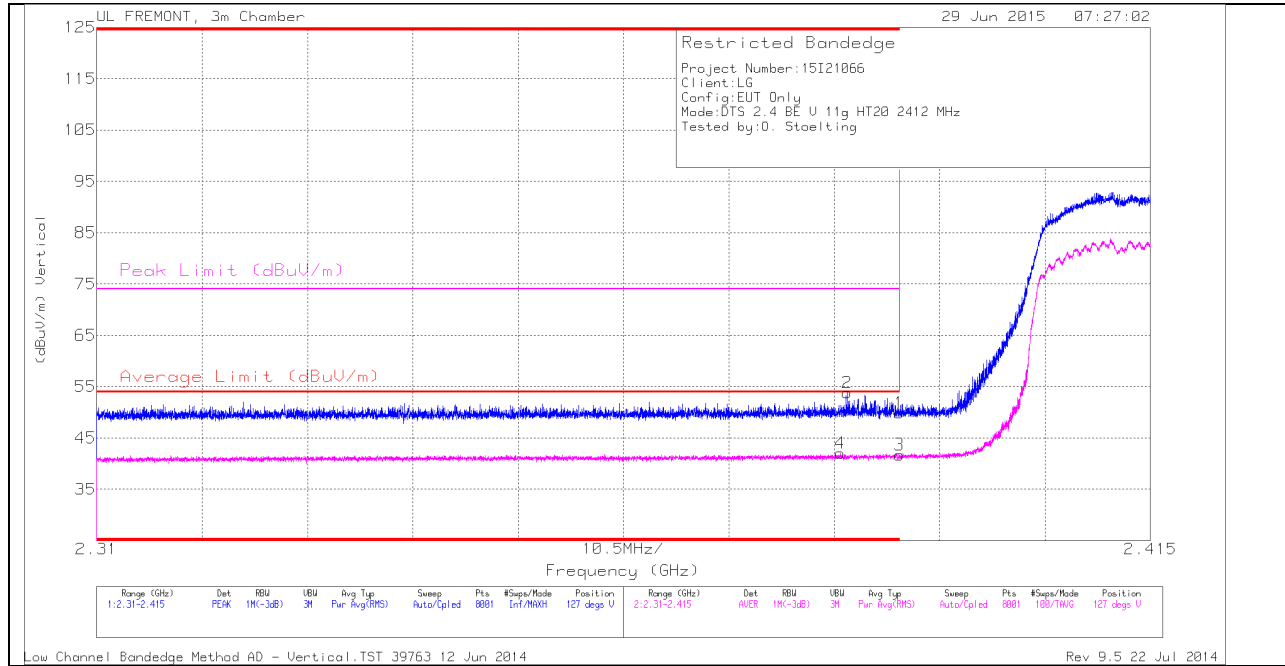
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	42.49	PK	32	-22.4	0	52.09	-	-	74	-21.91	65	109	H
2	* 2.388	47.43	PK	32	-22.4	0	57.03	-	-	74	-16.97	65	109	H
3	* 2.39	30.73	RMS	32	-22.4	1.47	41.8	54	-12.2	-	-	65	109	H
4	* 2.388	31.36	RMS	32	-22.4	1.47	42.43	54	-11.57	-	-	65	109	H

VERTICAL PEAK AND AVERAGE PLOT

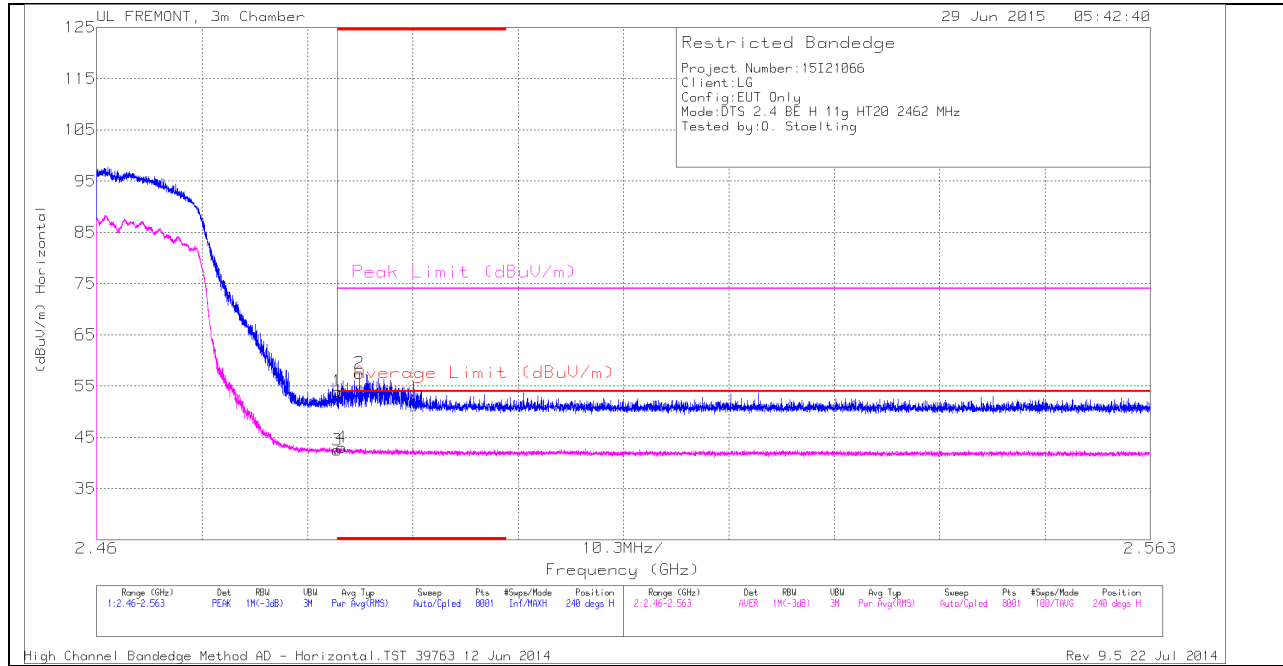


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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
4	* 2.384	30.96	RMS	32	-22.4	1.47	42.03	54	-11.97	-	-	127	109	V
2	* 2.385	44.18	PK	32	-22.4	0	53.78	-	-	74	-20.22	127	109	V
1	* 2.39	40.26	PK	32	-22.4	0	49.86	-	-	74	-24.14	127	109	V
3	* 2.39	30.63	RMS	32	-22.4	1.47	41.7	54	-12.3	-	-	127	109	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

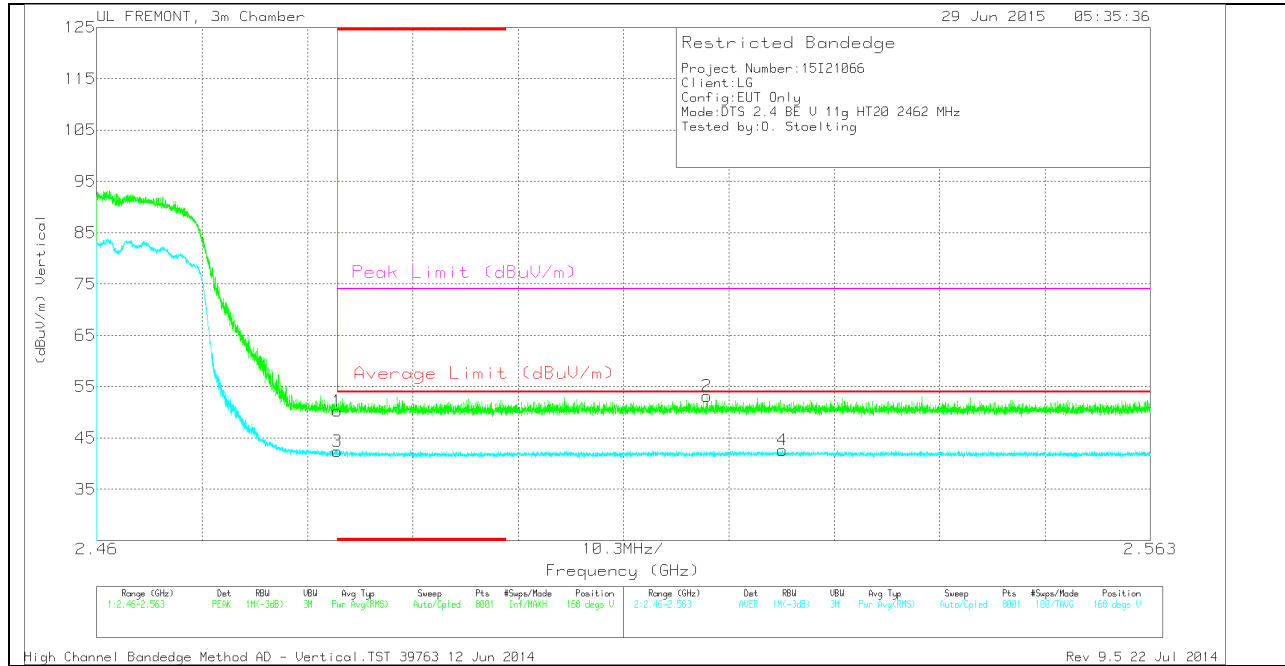
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.8	PK	32.3	-22.1	0	54	-	-	74	-20	240	132	H
3	* 2.484	30.88	RMS	32.3	-22.1	1.47	42.55	54	-11.45	-	-	240	132	H
4	* 2.484	31.34	RMS	32.3	-22.1	1.47	43.01	54	-10.99	-	-	240	132	H
2	* 2.486	47.33	PK	32.3	-22.1	0	57.53	-	-	74	-16.47	240	132	H

VERTICAL PEAK AND AVERAGE PLOT

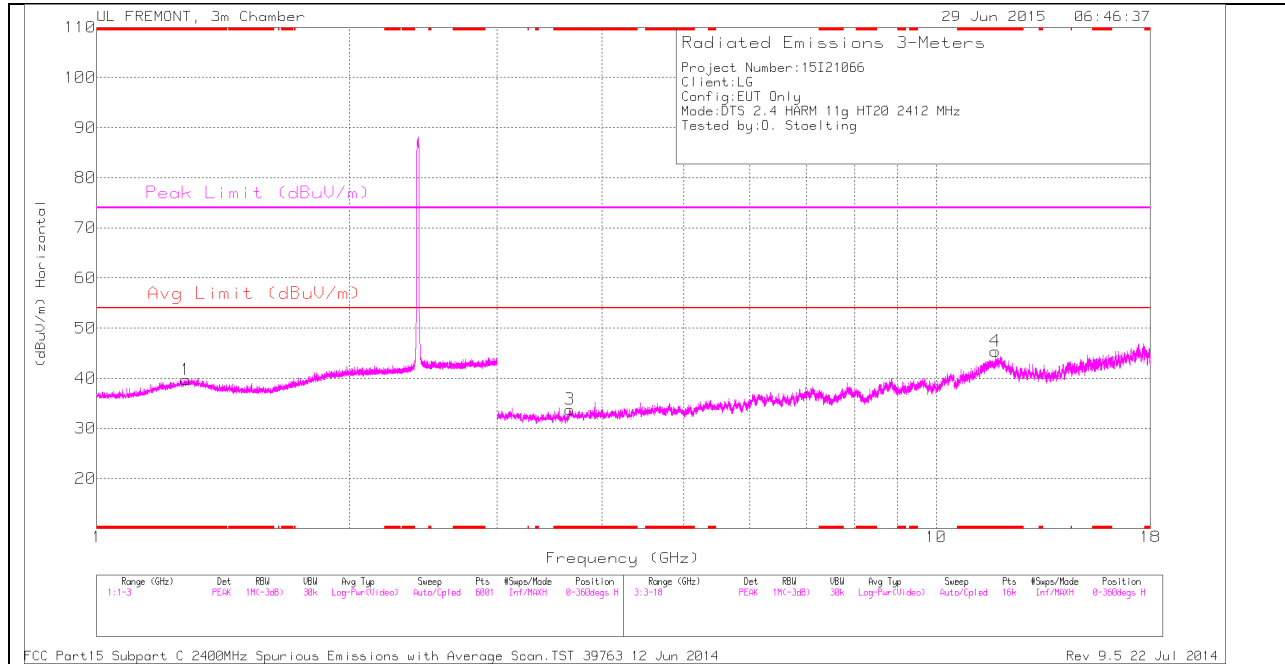


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (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	* 2.484	40.05	PK	32.3	-22.1	0	50.25	-	-	74	-23.75	168	393	V
3	* 2.484	30.71	RMS	32.3	-22.1	1.47	42.38	54	-11.62	-	-	168	393	V
2	2.52	42.95	PK	32.3	-22.1	0	53.15	-	-	74	-20.85	168	393	V
4	2.527	30.74	RMS	32.4	-22	1.47	42.61	54	-11.39	-	-	168	393	V

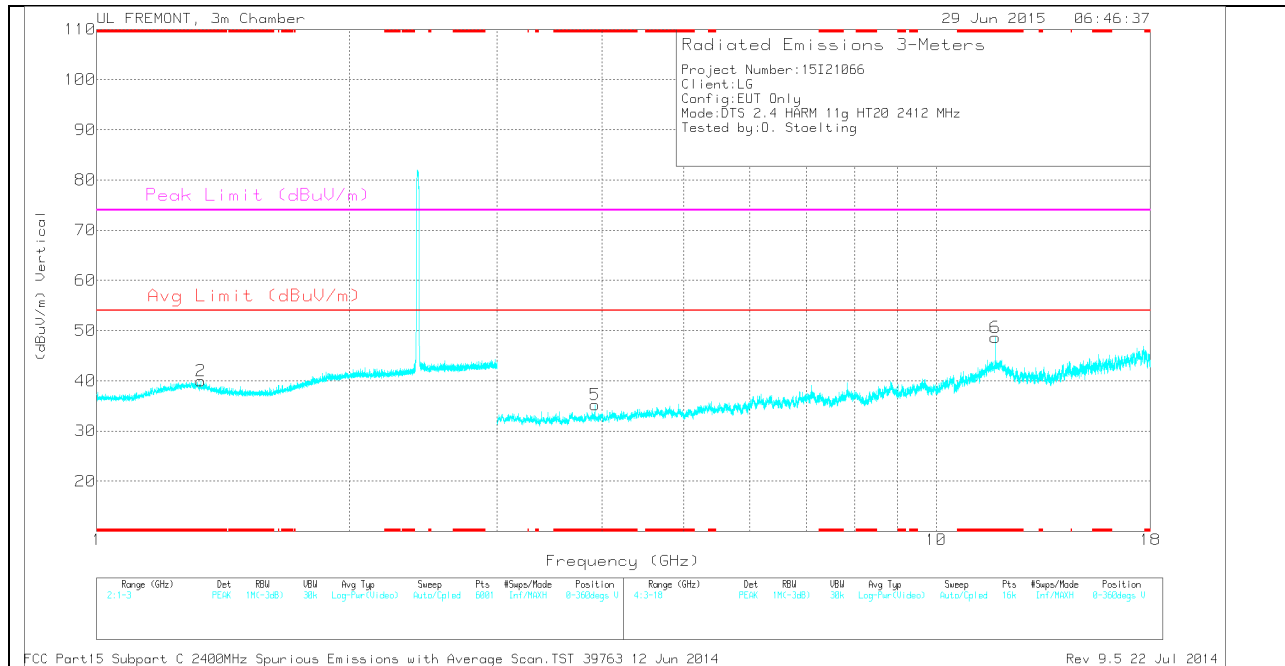
HARMONICS AND SPURIOUS EMISSIONS

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

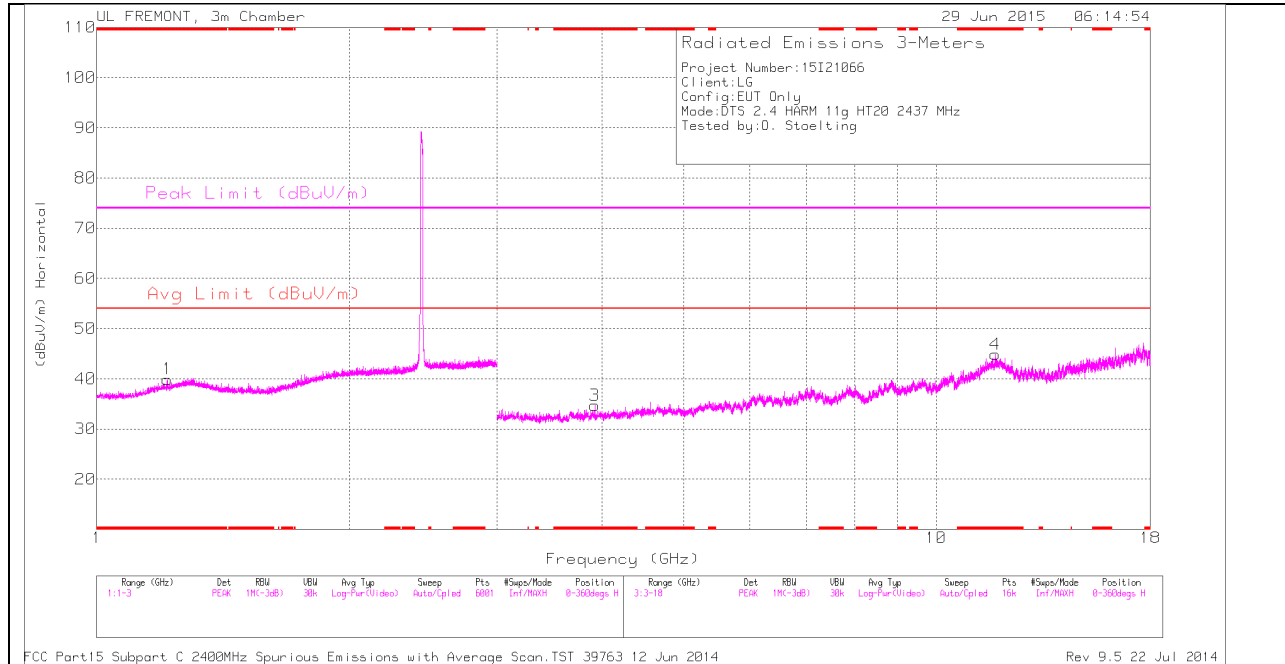
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.277	33.11	PK	29.7	-23.1	0	39.71	-	-	74	-34.29	0-360	200	H
2	* 1.33	33.66	PK	29.5	-23.2	0	39.96	-	-	74	-34.04	0-360	100	V
3	* 3.663	30.97	PK	32.9	-30.1	0	33.77	-	-	74	-40.23	0-360	200	H
4	* 11.76	28.72	PK	38.9	-22.2	0	45.42	-	-	74	-28.58	0-360	100	H
5	* 3.921	32.5	PK	33.2	-30.5	0	35.2	-	-	74	-38.8	0-360	100	V
6	* 11.76	31.95	PK	38.9	-22.2	0	48.65	-	-	74	-25.35	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

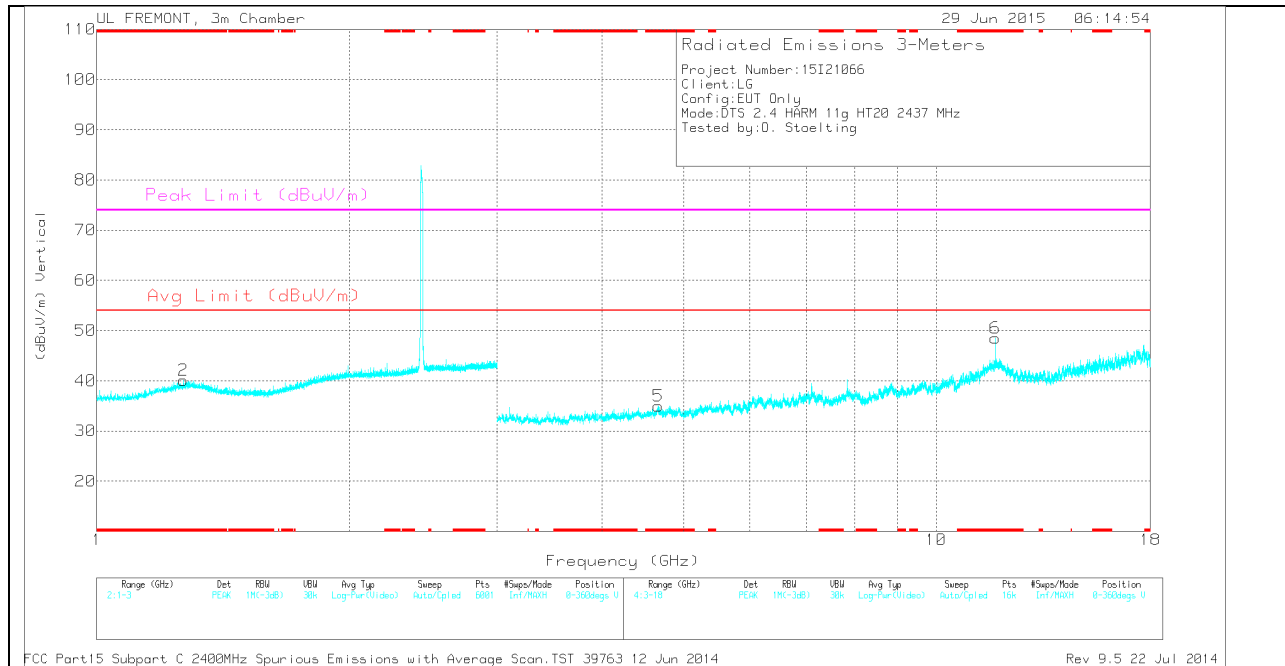
Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.275	42.18	PK2	29.7	-23.1	0	48.78	-	-	74	-25.22	278	200	H
* 1.276	30.92	MAV1	29.7	-23.1	1.47	38.99	54	-15.01	-	-	278	200	H
* 1.331	42.73	PK2	29.5	-23.2	0	49.03	-	-	74	-24.97	278	100	V
* 1.33	31.03	MAV1	29.5	-23.2	1.47	38.8	54	-15.2	-	-	278	100	V
* 11.759	37.01	PK2	38.9	-22.2	0	53.71	-	-	74	-20.29	162	396	H
* 11.759	24.92	MAV1	38.9	-22.2	1.47	43.09	54	-10.91	-	-	162	396	H
* 3.664	40.72	PK2	32.9	-30	0	43.62	-	-	74	-30.38	278	200	H
* 3.662	28.74	MAV1	32.9	-30.1	1.47	33.01	54	-20.99	-	-	278	200	H
* 11.761	36.46	PK2	38.9	-22.2	0	53.16	-	-	74	-20.84	278	166	V
* 11.758	24.66	MAV1	38.9	-22.2	1.47	42.83	54	-11.17	-	-	278	166	V
* 3.92	40.6	PK2	33.2	-30.5	0	43.3	-	-	74	-30.7	278	100	V
* 3.92	28.6	MAV1	33.2	-30.5	1.47	32.77	54	-21.23	-	-	278	100	V

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

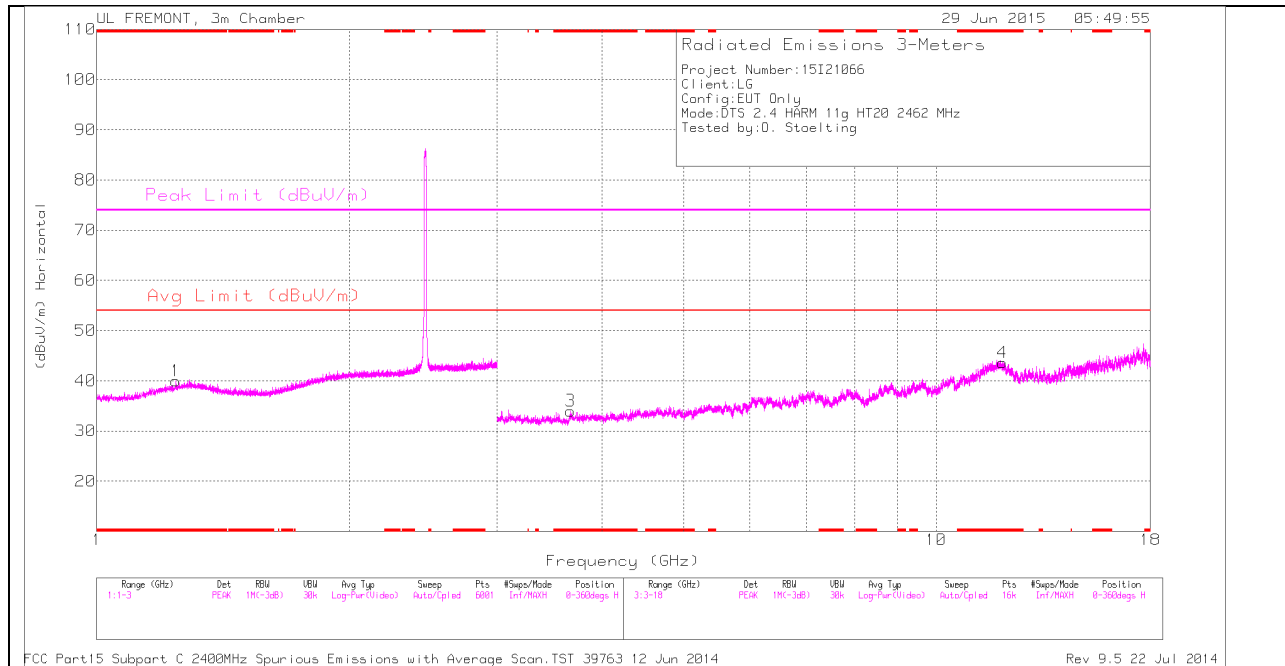
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.213	34.02	PK	29.1	-23.2	0	39.92	-	-	74	-34.08	0-360	200	H
2	* 1.268	33.73	PK	29.6	-23.2	0	40.13	-	-	74	-33.87	0-360	200	V
3	* 3.92	31.99	PK	33.2	-30.5	0	34.69	-	-	74	-39.31	0-360	100	H
4	* 11.76	28.14	PK	38.9	-22.2	0	44.84	-	-	74	-29.16	0-360	100	H
5	* 4.666	31.17	PK	34	-30.2	0	34.97	-	-	74	-39.03	0-360	200	V
6	* 11.76	31.8	PK	38.9	-22.2	0	48.5	-	-	74	-25.5	0-360	100	V

PK - Peak detector

RADIATED EMISSIONS

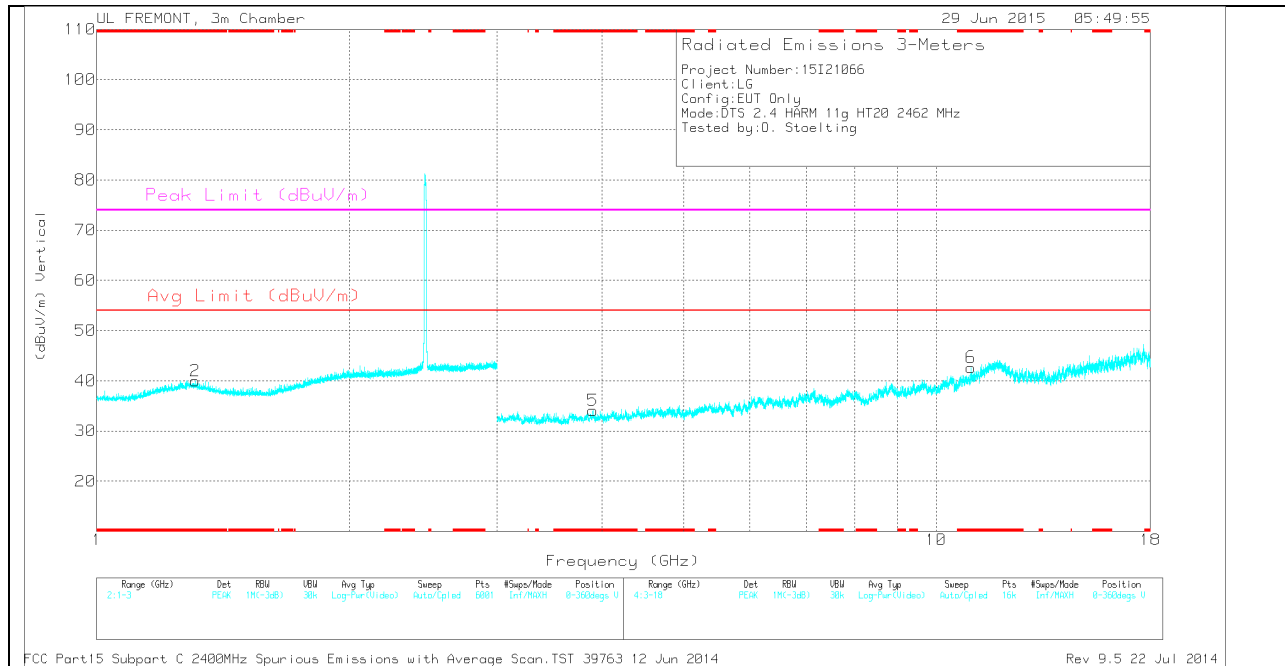
Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.214	42.41	PK2	29.1	-23.2	0	48.31	-	-	74	-25.69	213	200	H
* 1.211	31.04	MAV1	29	-23.2	1.47	38.31	54	-15.69	-	-	213	200	H
* 1.27	42.83	PK2	29.6	-23.2	0	49.23	-	-	74	-24.77	213	200	V
* 1.267	31.18	MAV1	29.6	-23.2	1.47	39.05	54	-14.95	-	-	213	200	V
* 11.761	36.95	PK2	38.9	-22.2	0	53.65	-	-	74	-20.35	99	397	H
* 11.758	24.99	MAV1	38.9	-22.2	1.47	43.16	54	-10.84	-	-	99	397	H
* 3.918	39.78	PK2	33.2	-30.5	0	42.48	-	-	74	-31.52	213	100	H
* 3.918	28.68	MAV1	33.2	-30.5	1.47	32.85	54	-21.15	-	-	213	100	H
* 11.76	37.46	PK2	38.9	-22.2	0	54.16	-	-	74	-19.84	213	168	V
* 11.759	24.71	MAV1	38.9	-22.2	1.47	42.88	54	-11.12	-	-	213	168	V
* 4.664	39.87	PK2	34	-30.1	0	43.77	-	-	74	-30.23	213	200	V
* 4.664	28.53	MAV1	34	-30.1	1.47	33.9	54	-20.1	-	-	213	200	V

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 T119 (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)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.242	33.88	PK	29.3	-23.2	0	39.98	-	-	74	-34.02	0-360	100	H
2	* 1.31	33.29	PK	29.8	-23.1	0	39.99	-	-	74	-34.01	0-360	200	V
6	* 10.997	27.55	PK	37.9	-22.8	0	42.65	-	-	74	-31.35	0-360	100	V
4	* 11.987	27.42	PK	39.1	-22.9	0	43.62	-	-	74	-30.38	0-360	100	H
3	* 3.666	31.09	PK	32.9	-30	0	33.99	-	-	74	-40.01	0-360	100	H
5	* 3.9	31.37	PK	33.2	-30.5	0	34.07	-	-	74	-39.93	0-360	200	V

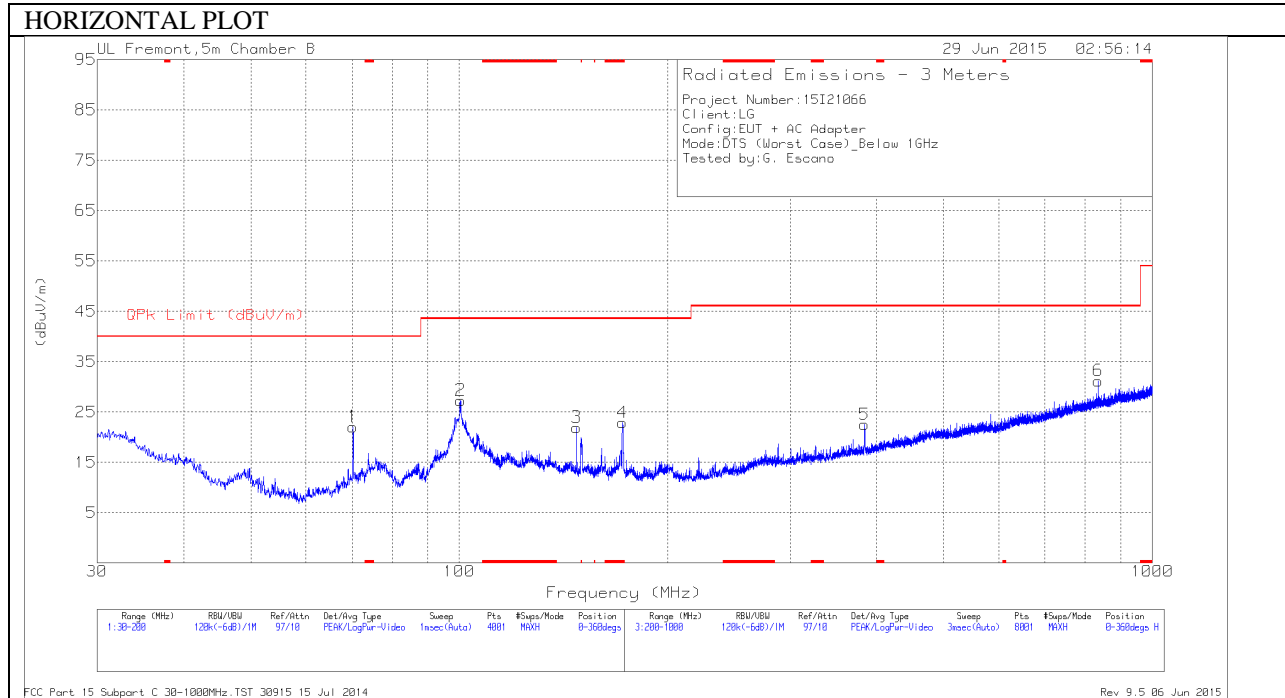
PK - Peak detector

RADIATED EMISSIONS

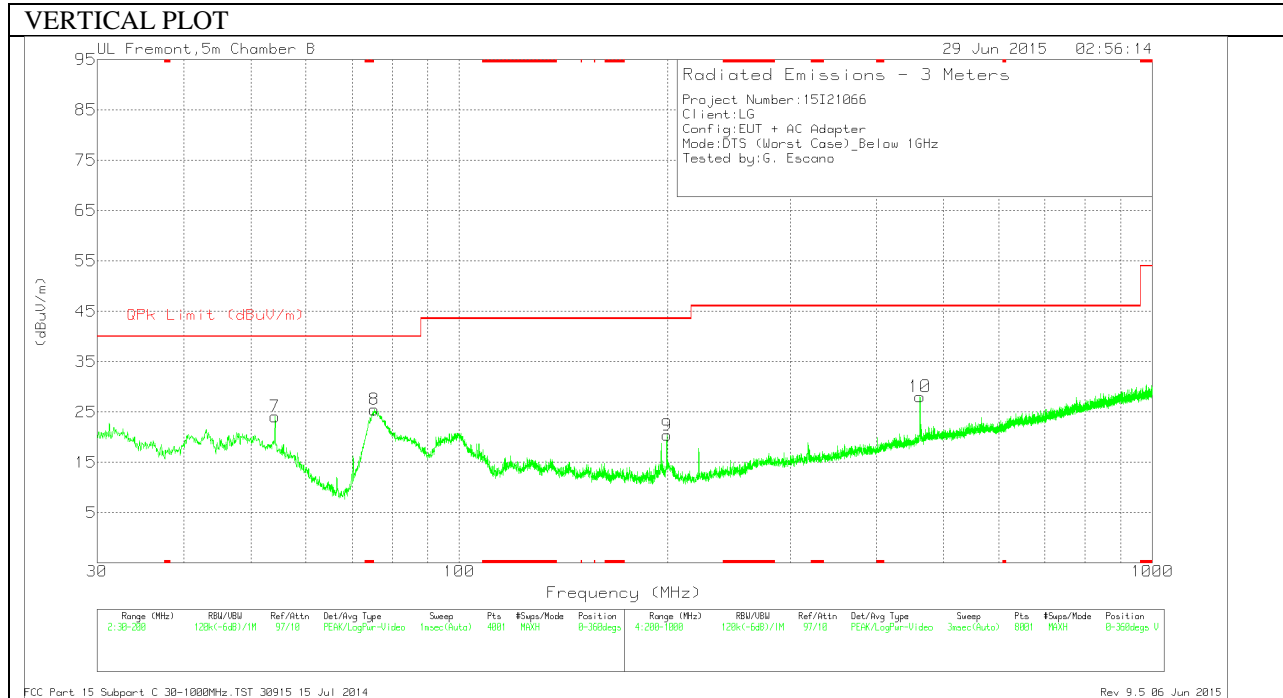
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.241	42.54	PK2	29.3	-23.1	0	48.74	-	-	74	-25.26	51	100	H
* 1.243	31.06	MAV1	29.3	-23.2	1.47	38.63	54	-15.37	-	-	51	100	H
* 1.309	42.15	PK2	29.8	-23.1	0	48.85	-	-	74	-25.15	51	200	V
* 1.31	30.86	MAV1	29.8	-23.1	1.47	39.03	54	-14.97	-	-	51	200	V
* 11.987	36.7	PK2	39.1	-22.9	0	52.9	-	-	74	-21.1	51	105	H
* 11.988	24.71	MAV1	39.1	-22.9	1.47	42.38	54	-11.62	-	-	51	105	H
* 3.665	40.12	PK2	32.9	-30	0	43.02	-	-	74	-30.98	51	100	H
* 3.666	28.83	MAV1	32.9	-30	1.47	33.2	54	-20.8	-	-	51	100	H
* 10.996	36.64	PK2	37.9	-22.8	0	51.74	-	-	74	-22.26	94	109	V
* 10.996	24.6	MAV1	37.9	-22.8	1.47	41.17	54	-12.83	-	-	94	109	V
* 3.9	40.63	PK2	33.2	-30.5	0	43.33	-	-	74	-30.67	51	200	V
* 3.899	29.08	MAV1	33.2	-30.4	1.47	33.35	54	-20.65	-	-	51	200	V

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	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 172.035	38.47	Pk	11.5	-27.1	22.87	43.52	-20.65	0-360	399	H
7	54.225	45.21	Pk	7.4	-28.5	24.11	40	-15.89	0-360	101	V
1	70.2475	42.26	Pk	8.1	-28.3	22.06	40	-17.94	0-360	100	H
8	75.39	45.88	Pk	7.9	-28.3	25.48	40	-14.52	0-360	101	V
2	100.4225	44.91	Pk	10.4	-28	27.31	43.52	-16.21	0-360	199	H
3	147.6825	36.75	Pk	12.6	-27.4	21.95	43.52	-21.57	0-360	199	H
9	199.2775	34.68	Pk	12.6	-26.9	20.38	43.52	-23.14	0-360	101	V
5	384.4	33.11	Pk	15.2	-25.8	22.51	46.02	-23.51	0-360	299	H
10	462.1	36.64	Pk	17.1	-25.7	28.04	46.02	-17.98	0-360	101	V
6	834.9	32.51	Pk	21.9	-23.2	31.21	46.02	-14.81	0-360	299	H

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

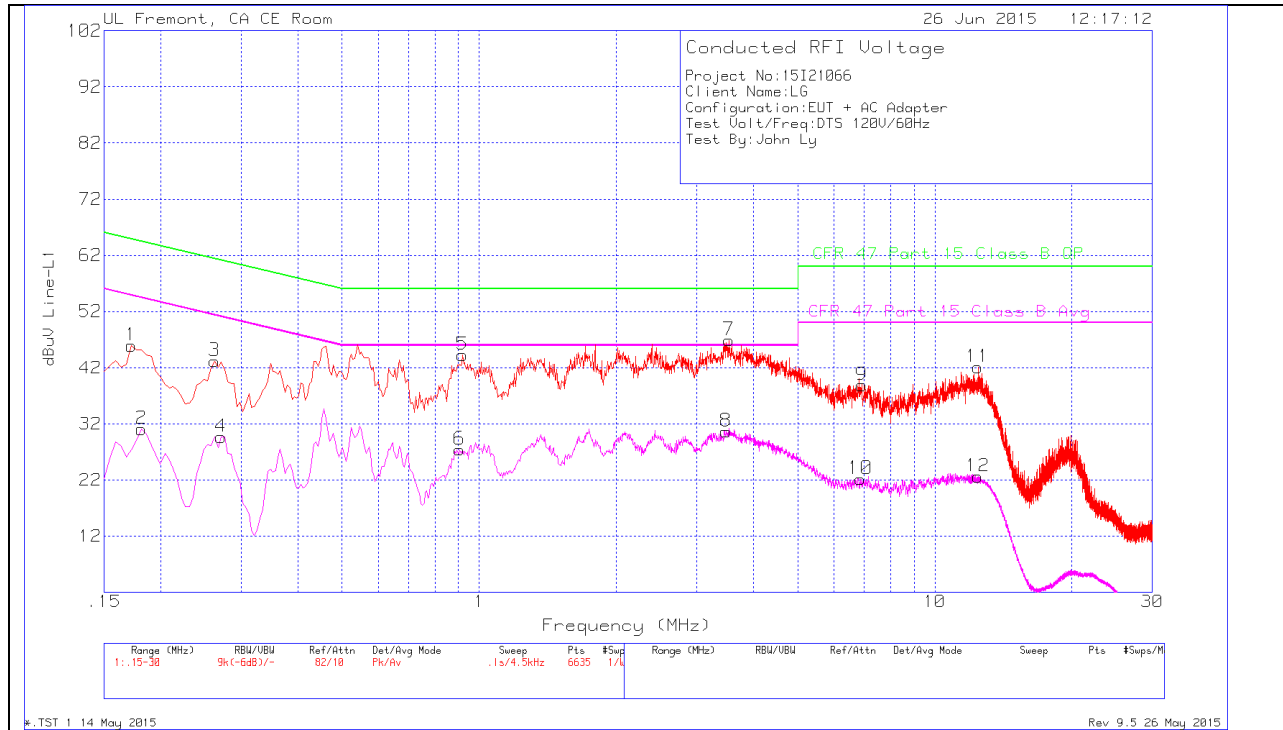
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



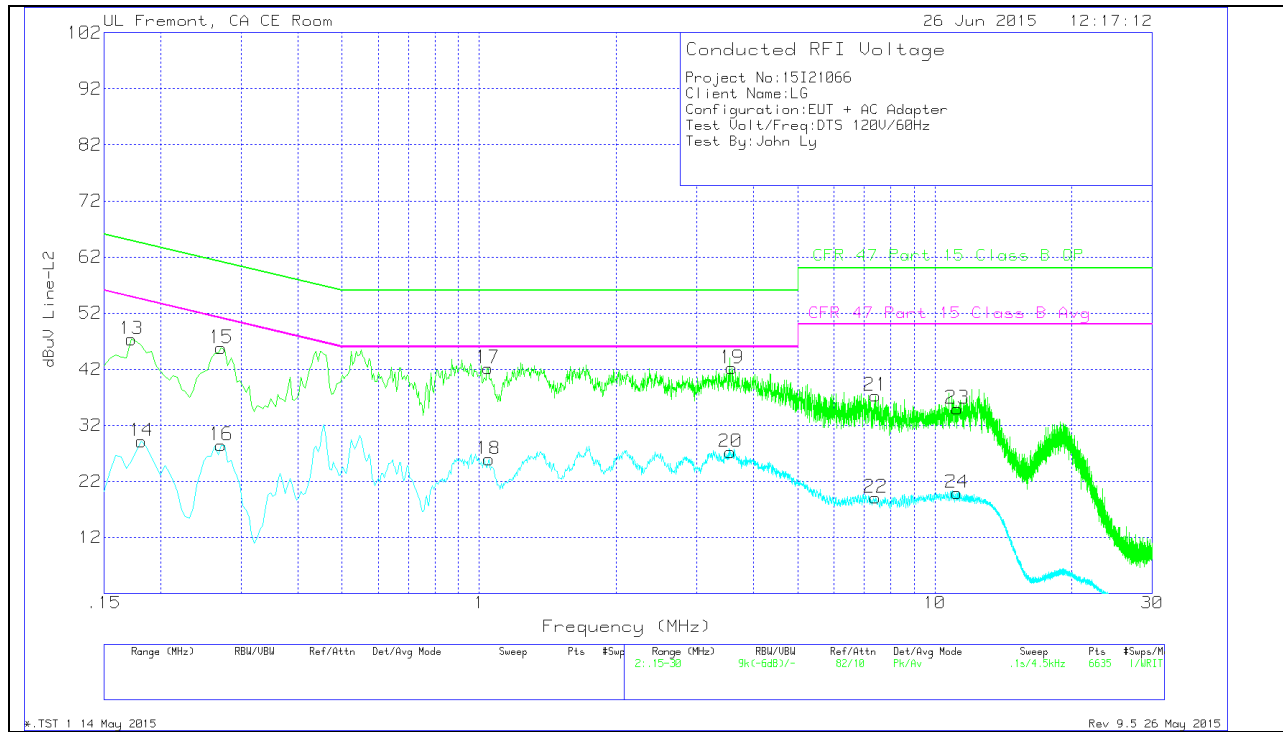
LINE 1 RESULTS

Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1	LC Cables 1&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
1	.1725	44.86	Pk	1.1	0	45.96	64.84	-18.88		
2	.1815	30.01	Av	1.1	0	31.11	-	-	54.42	-23.31
3	.2625	42.48	Pk	.7	0	43.18	61.35	-18.17		
4	.2715	29.05	Av	.6	0	29.65	-	-	51.07	-21.42
5	.9195	43.89	Pk	.3	.1	44.29	56	-11.71		
6	.906	27.13	Av	.3	0	27.43	-	-	46	-18.57
7	3.5295	46.6	Pk	.2	.1	46.9	56	-9.1		
8	3.4845	30.34	Av	.2	.1	30.64	-	-	46	-15.36
9	6.909	38.58	Pk	.2	.1	38.88	60	-21.12		
10	6.8685	21.88	Av	.2	.1	22.18	-	-	50	-27.82
11	12.435	41.7	Pk	.2	.2	42.1	60	-17.9		
12	12.435	22.23	Av	.2	.2	22.63	-	-	50	-27.37

PK - Peak detector
 Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2	LC Cables 2&3	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin (dB)	CFR 47 Part 15 Class B Avg	Margin (dB)
13	.1725	46.13	Pk	1.2	0	47.33	64.84	-17.51		
14	.1815	27.96	Av	1.2	0	29.16	-	-	54.42	-25.26
15	.2715	45.07	Pk	.7	0	45.77	61.07	-15.3		
16	.2715	27.74	Av	.7	0	28.44	-	-	51.07	-22.63
17	1.0455	41.85	Pk	.3	0	42.15	56	-13.85		
18	1.05	25.63	Av	.3	0	25.93	-	-	46	-20.07
19	3.588	41.88	Pk	.2	.1	42.18	56	-13.82		
20	3.561	26.93	Av	.2	.1	27.23	-	-	46	-18.77
21	7.413	36.99	Pk	.2	.1	37.29	60	-22.71		
22	7.41525	18.8	Av	.2	.1	19.1	-	-	50	-30.9
23	11.2065	34.57	Pk	.2	.2	34.97	60	-25.03		
24	11.1885	19.57	Av	.2	.2	19.97	-	-	50	-30.03

Pk - Peak detector
 Av - Average detection