



**FCC CFR47 PART 15 SUBPART C  
C2PC CERTIFICATION TEST REPORT  
FOR**

**CDMA/LTE Phone + Bluetooth &  
WLAN 2.4GHz and NFC**

**MODEL NUMBER: LG-LS740, LGLS740, LS740**

**FCC ID: ZNFLS740**

**REPORT NUMBER: 14U16944-4**

**ISSUE DATE: JANUARY 23, 2014**

*Prepared for*  
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1000 SYLVAN AVENUE,  
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**NVLAP LAB CODE 200065-0**

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** LG ELECTRONICS MOBILECOMM U.S.A., INC.  
1000 SYLVAN AVENUE  
ENGLEWOOD CLIFFS, NEW JERSEY 07632 U.S.A.

**EUT DESCRIPTION:** CDMA/LTE Phone + Bluetooth & WLAN 2.4GHz and NFC

**MODEL:** LG-LS740, LGLS740, LS740

**SERIAL NUMBER:** 1801185

**DATE TESTED:** JANUARY 21-24, 2014

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.

Approved & Released  
For UL Verification Services Inc. By:

Tested By:



PHILIP KIM  
WiSE PROGRAM MANAGER  
UL Verification Services Inc.

CHARLES VERGONIO  
WiSE LAB TECHNICIAN  
UL Verification Services Inc.

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2009.

## 3. FACILITIES AND ACCREDITATION

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

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

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

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

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

### 4.3. MEASUREMENT UNCERTAINTY

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

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

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

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a CDMA/LTE Phone Bluetooth and WLAN (2.4 GHz) + 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	15.55	35.89
2412 - 2462	802.11g	14.55	28.51
2412 - 2462	802.11n HT20	13.66	23.23

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -0.07 dBi.

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## 5.4. WORST-CASE CONFIGURATION AND MODE

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

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

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

802.11b mode: 1 Mbps  
802.11g mode: 6 Mbps  
802.11n HT20mode: MCS0

## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-01WD	DB83Y00000030	N/A

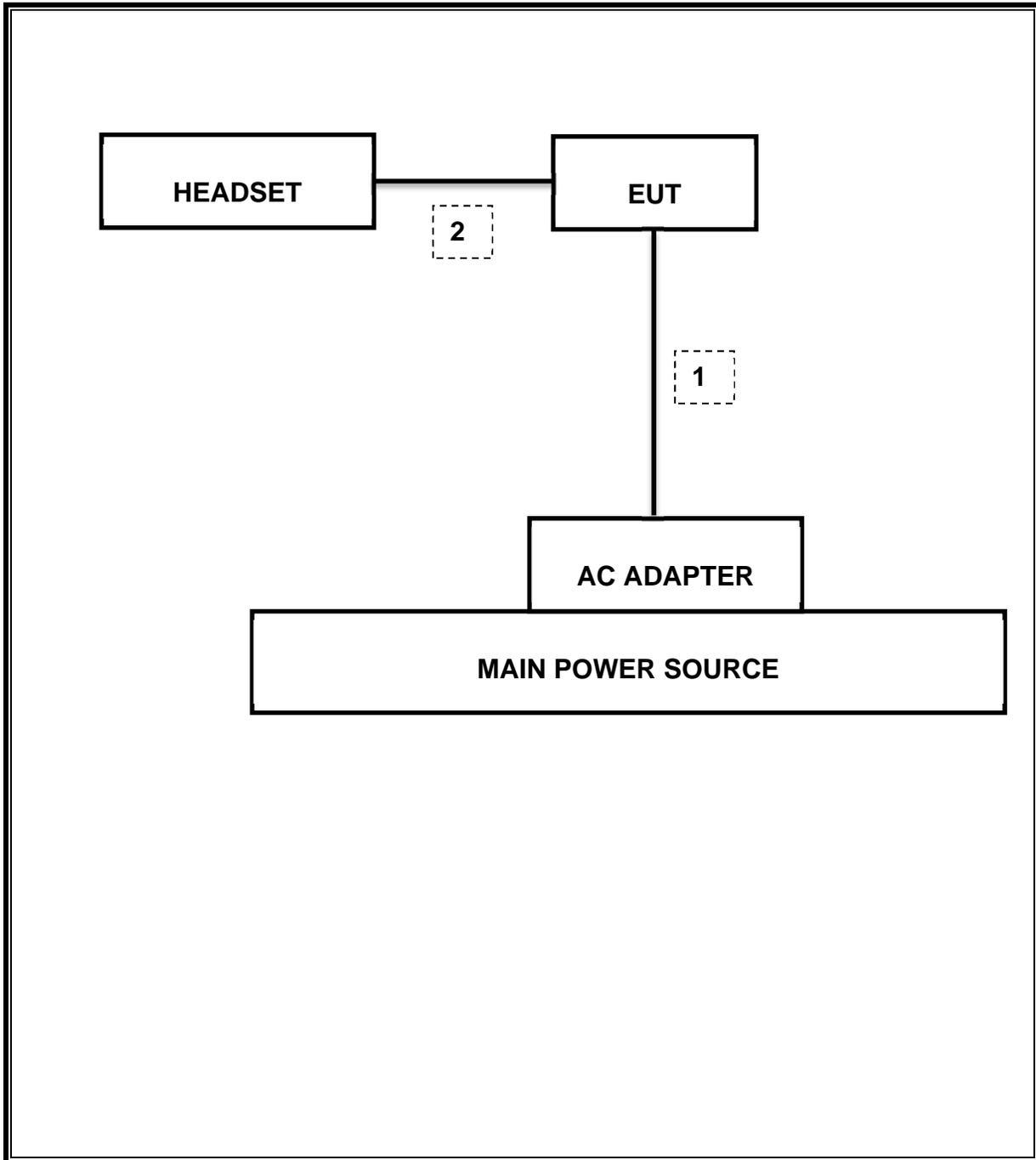
### I/O CABLES

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 Date	Cal Due
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	C01016	08/14/13	08/14/14
Antenna, Horn, 18 GHz	ETS	3117	C01006	12/11/13	12/11/14
Antenna, Horn, 25.5 GHz	ARA	MWH-1826/B	C00980	11/14/13	11/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/16/14	01/16/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	10/22/13	10/22/14
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	10/21/13	10/21/14
PXA SIGNAL ANALYZER	Agilent / HP	N9030A	N/A		05/09/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/13	08/08/14
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/14	01/14/15
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR	CNR
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/2013	12/13/2014
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/2013	12/13/2014

## 7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r01:Measurement Procedure PK2 is used for power and PKPSD is used for power spectral density.

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

## 8. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-210 A8.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	See original
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	See original
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	See original
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	See original
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	See original
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	44.01dBuV/m

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## 9. ANTENNA PORT TEST RESULTS

### 9.1. AVERAGE POWER

#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.2 dB (including 10 dB pad and 0.2 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

#### RESULTS

### 9.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	16.06
Mid	2437	16.46
High	2462	16.47
Worst		16.470

### 9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	9.96
Mid	2437	10.40
High	2462	10.46
Worst		10.460

### 9.1.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	Avg Power (dBm)
Low	2412	9.08
Mid	2437	9.55
High	2462	10.46
Worst		10.460

## 10. RADIATED TEST RESULTS

### 10.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

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.

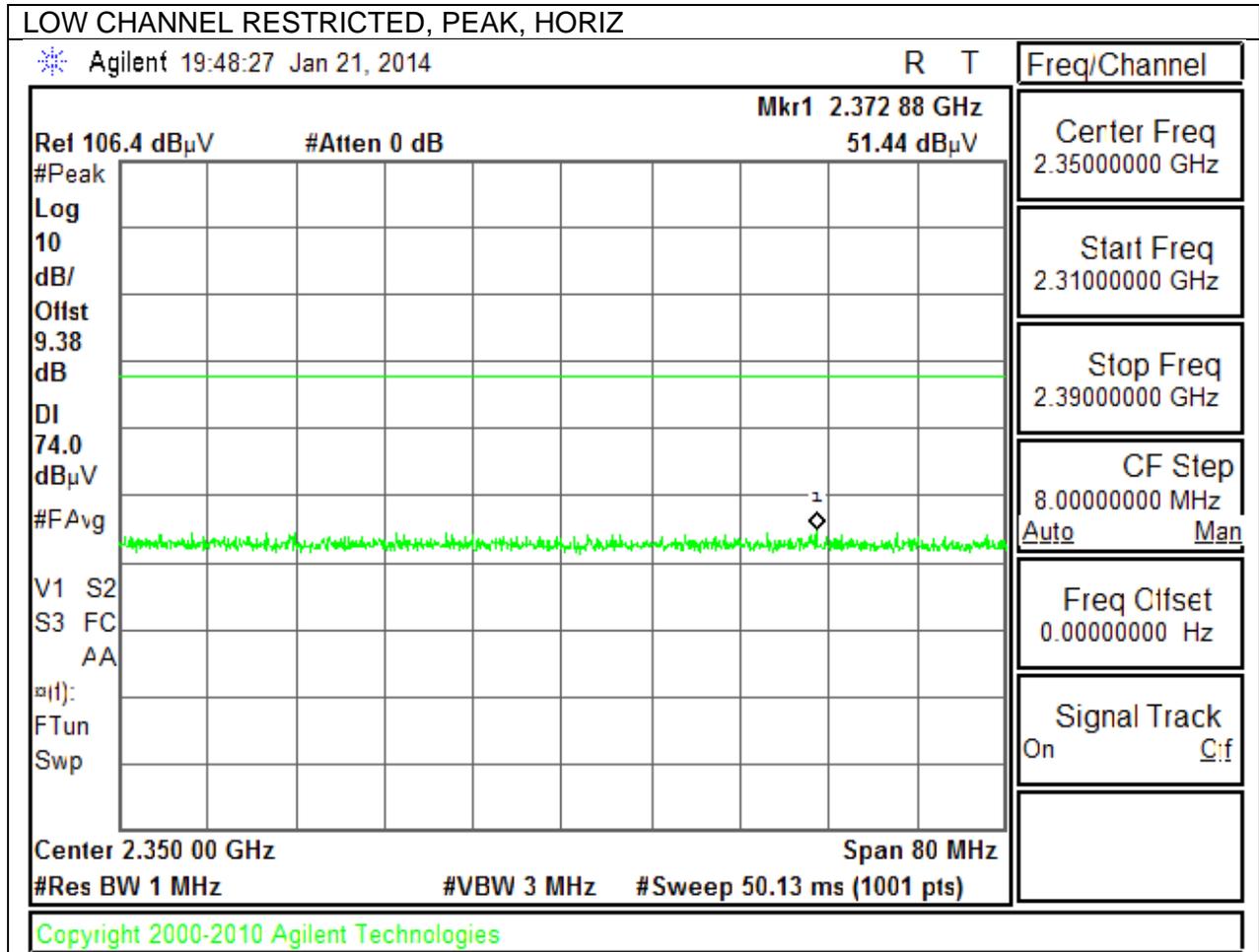
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor=  $10\log(1/x)$  For this sample B mode = 0dB (duty cycle >98%); G mode = 0.22dB; N mode = 0.27dB.

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.

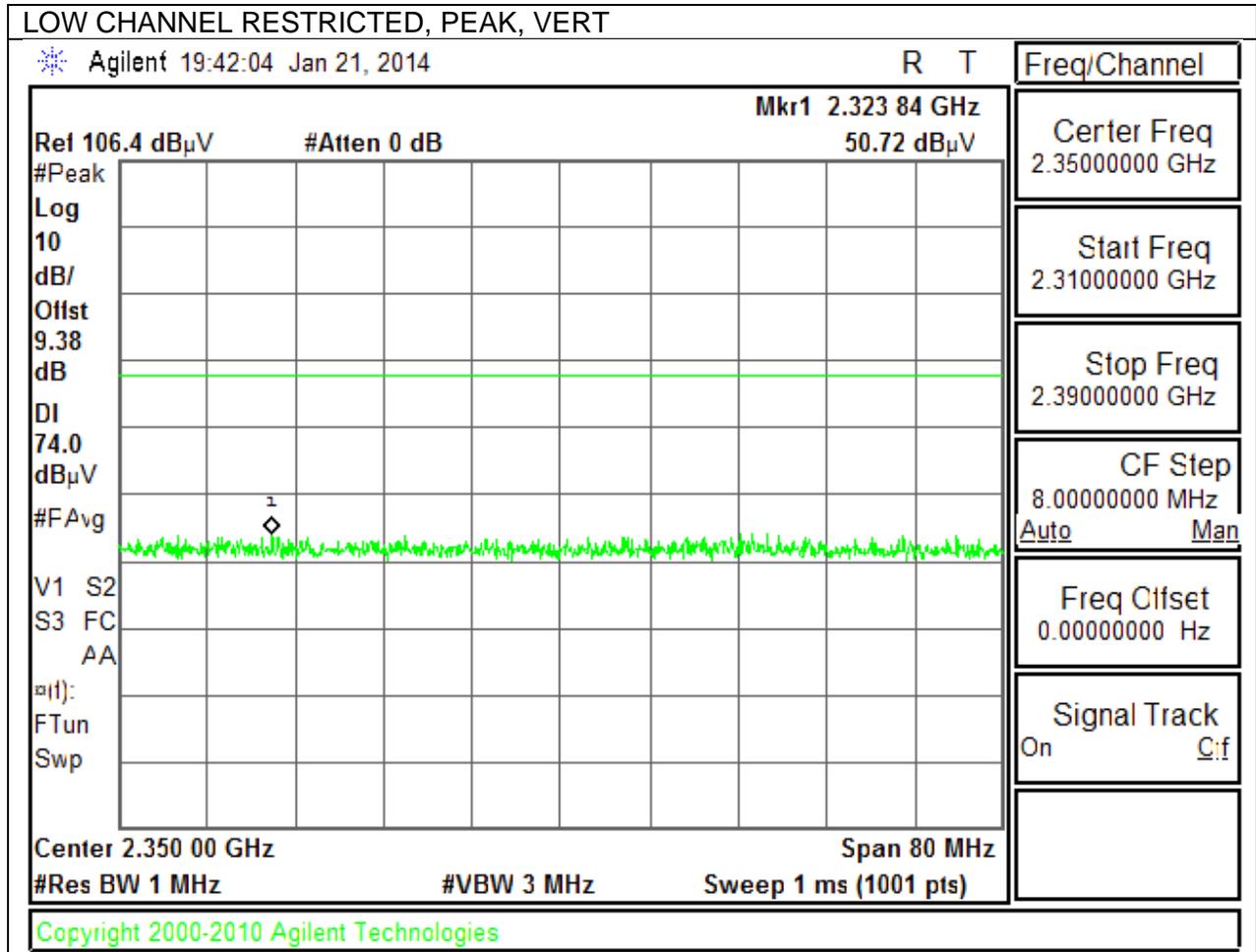
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

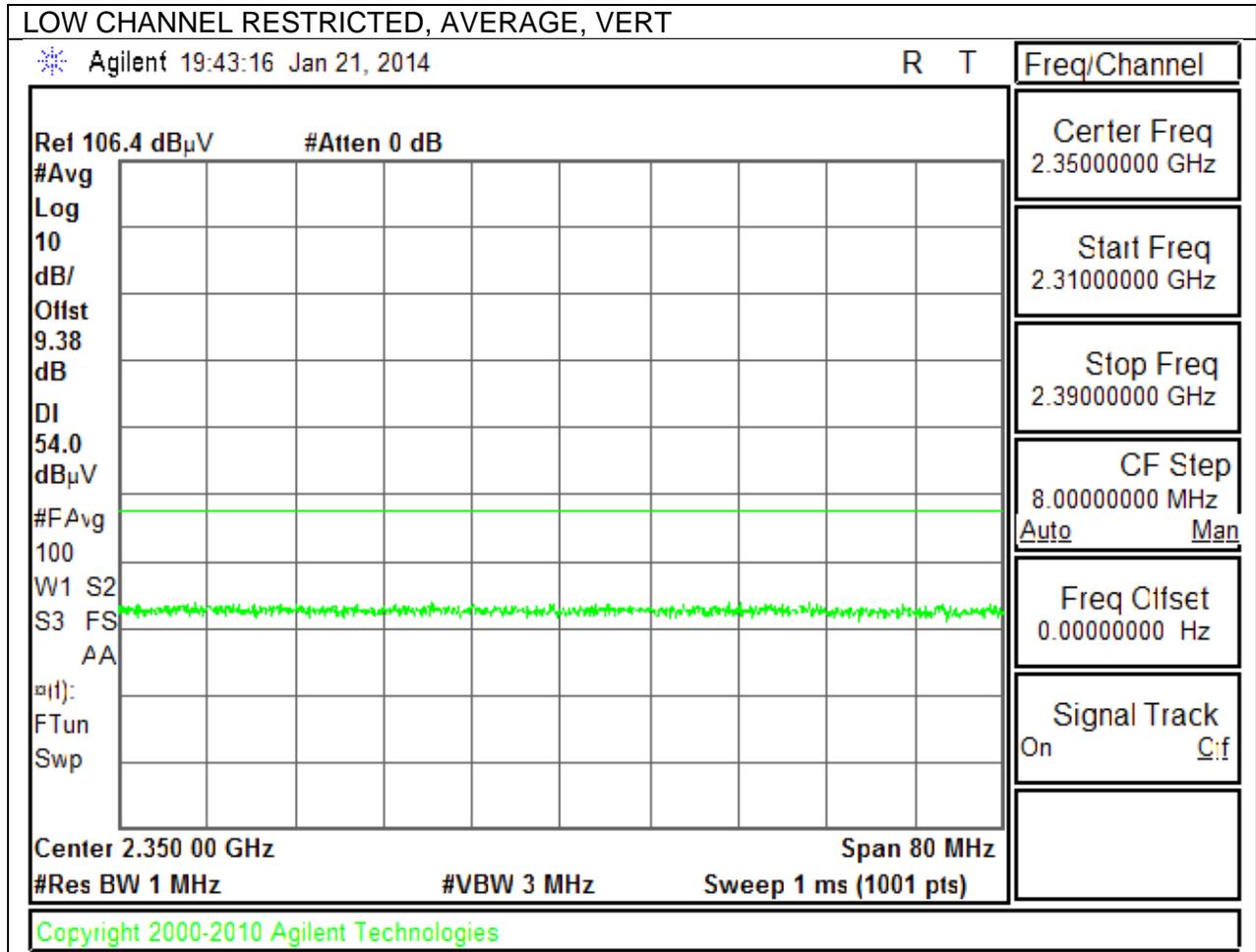
## 10.2. TRANSMITTER ABOVE 1 GHz

### 10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

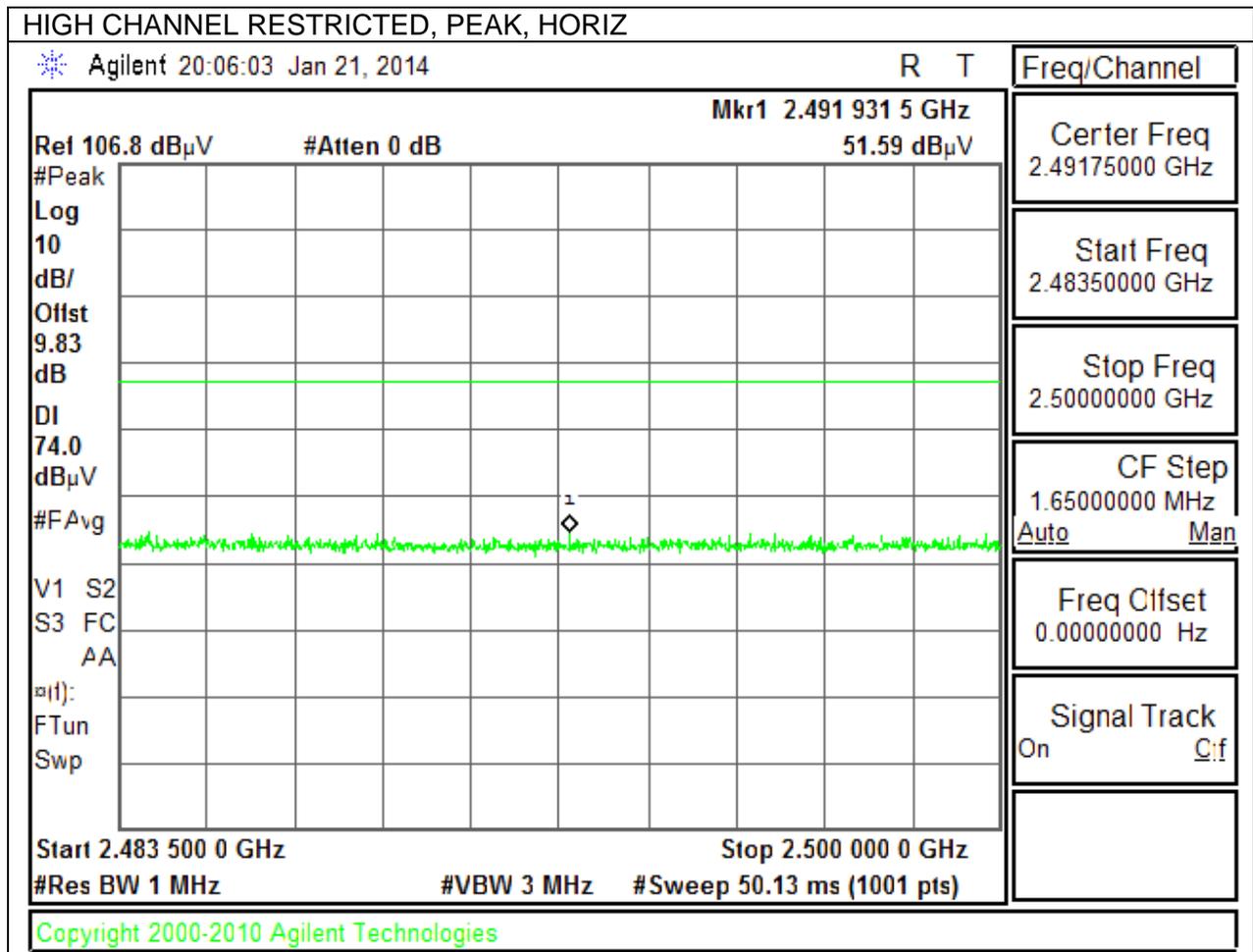




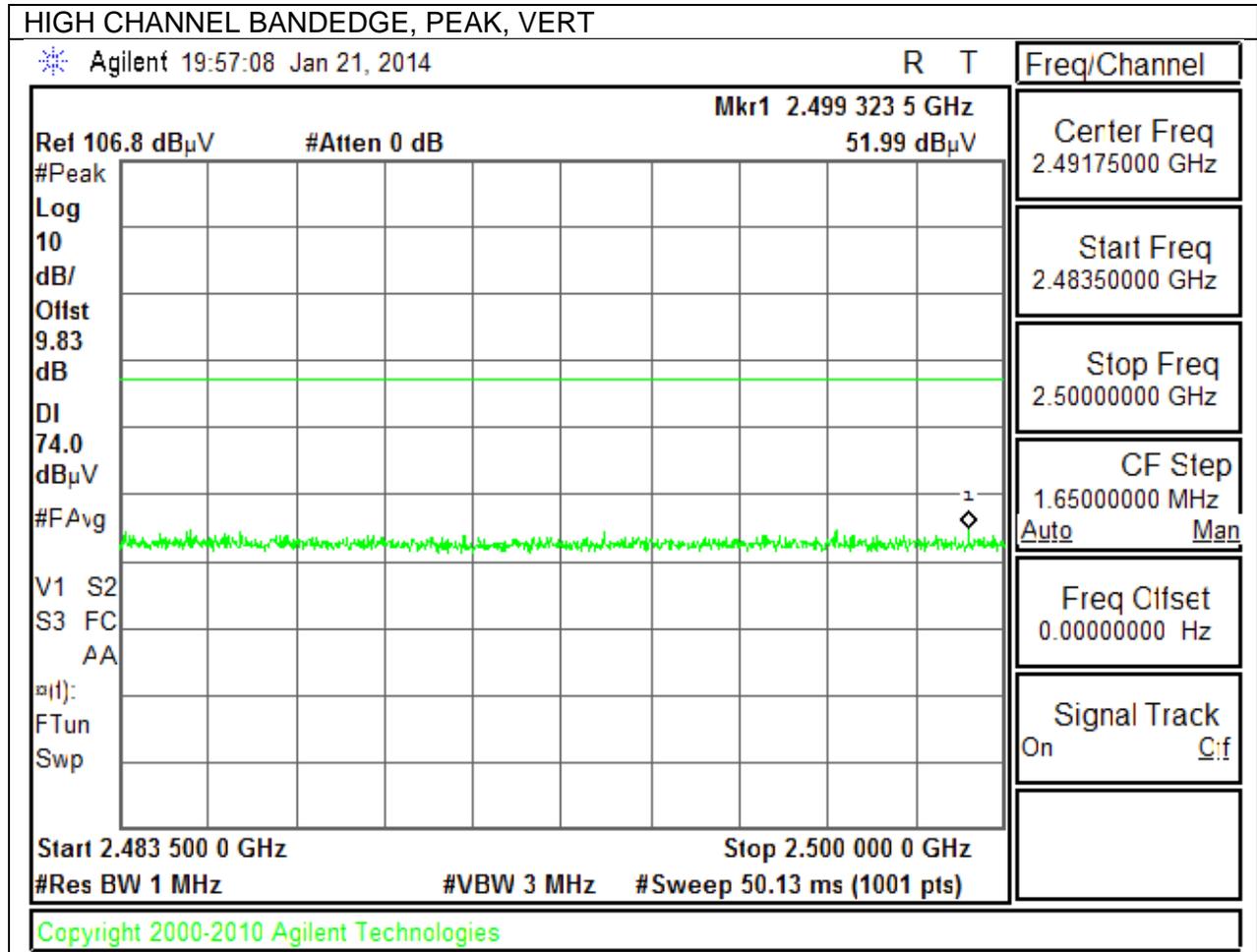




**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

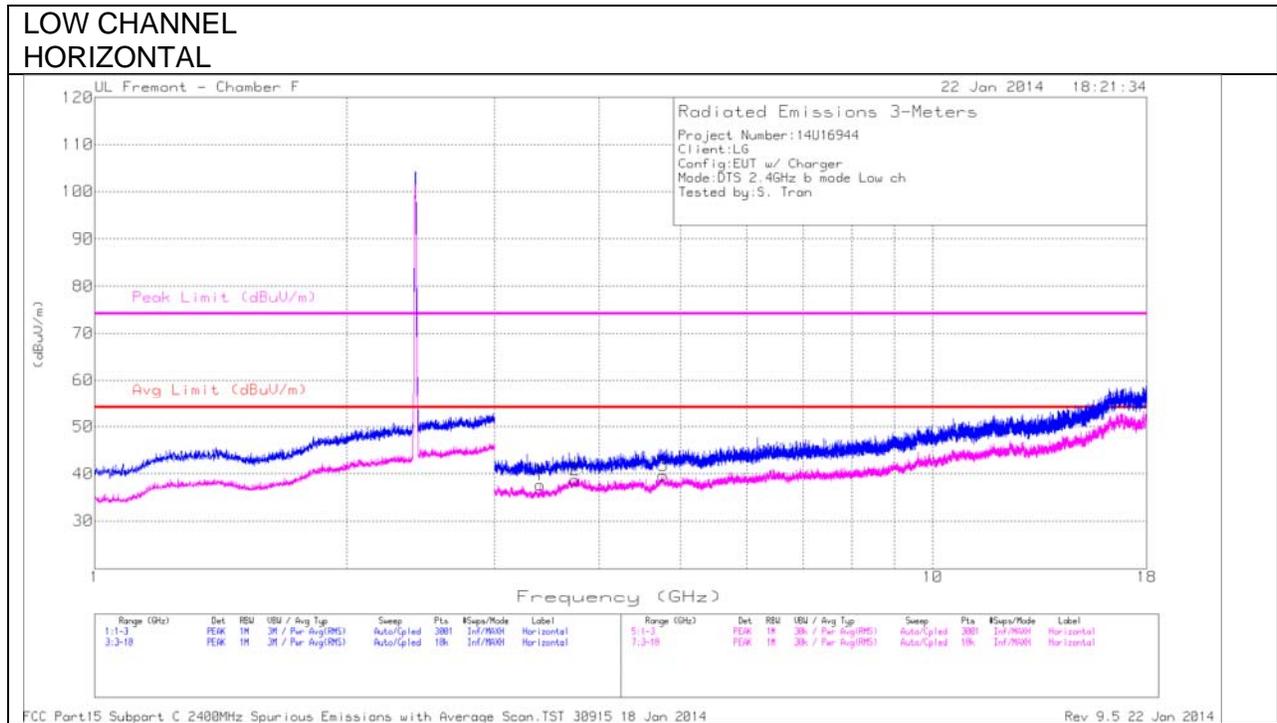






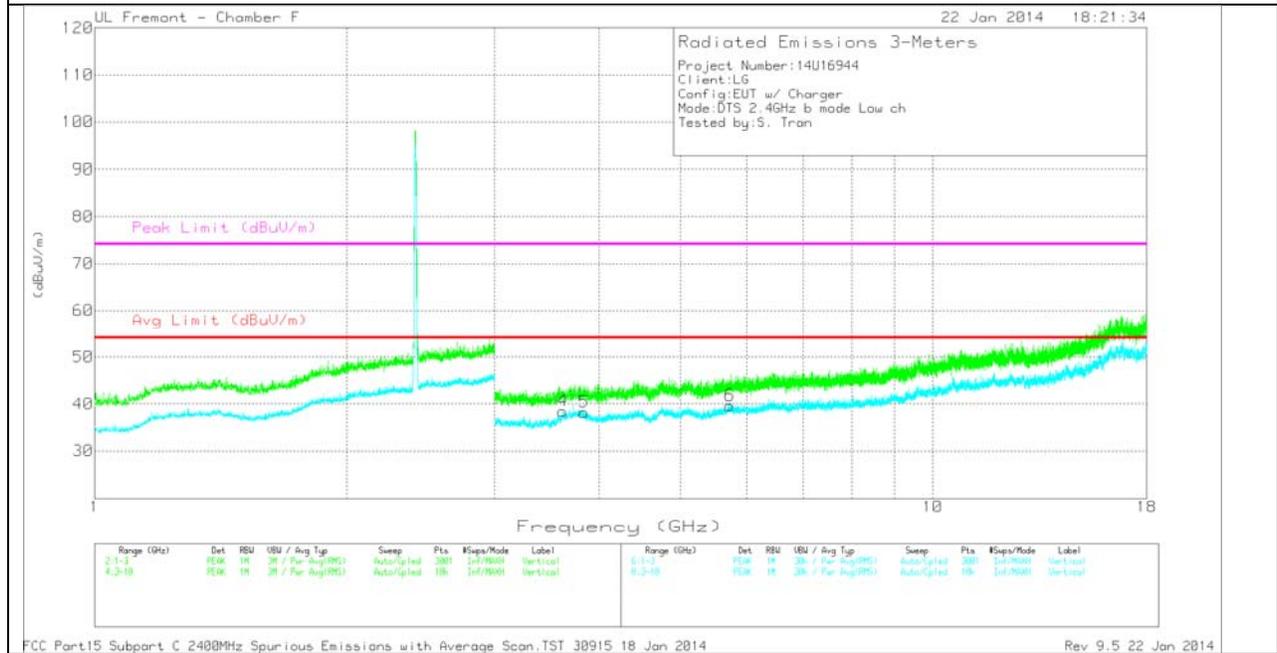


### HARMONICS AND SPURIOUS EMISSIONS



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



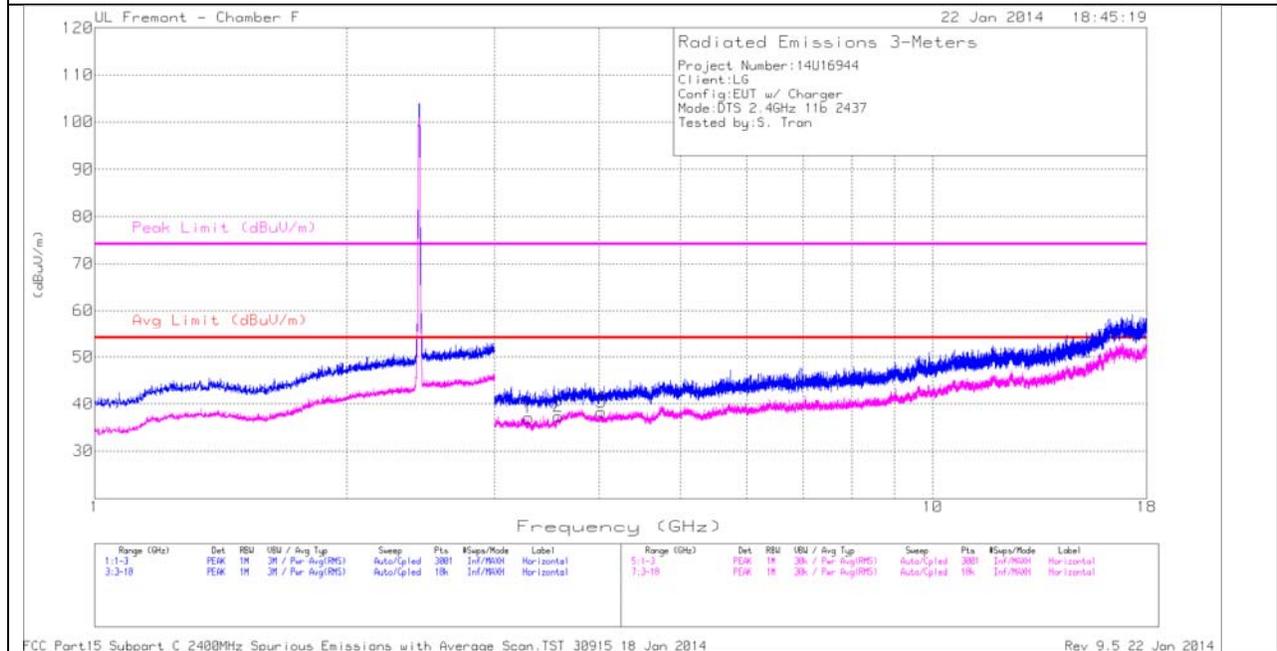
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cb/F ltr/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	3.4	34.03	Avg	33	-29.4	37.63	53.97	-16.34	74	-36.37	0-360	200	H
2	3.744	34.7	Avg	33.5	-29.5	38.7	53.97	-15.27	74	-35.3	0-360	200	H
3	4.768	33.84	Avg	34.1	-28.3	39.64	53.97	-14.33	74	-34.36	0-360	200	H
4	3.618	34.18	Avg	33.7	-29.4	38.48	53.97	-15.49	74	-35.52	0-360	201	V
5	3.835	33.64	Avg	33.5	-28.9	38.24	53.97	-15.73	74	-35.76	0-360	101	V
6	5.727	31.97	Avg	34.9	-27.2	39.67	53.97	-14.3	74	-34.33	0-360	201	V

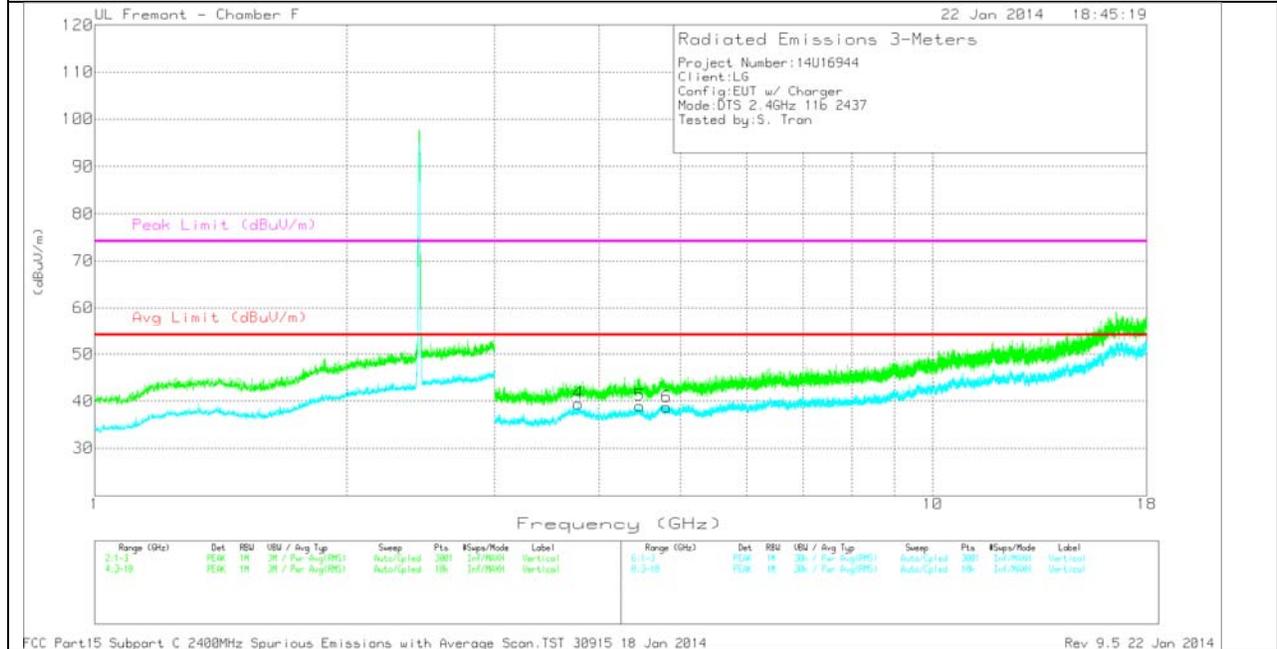
Avg - Video bandwidth < Resolution bandwidth

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



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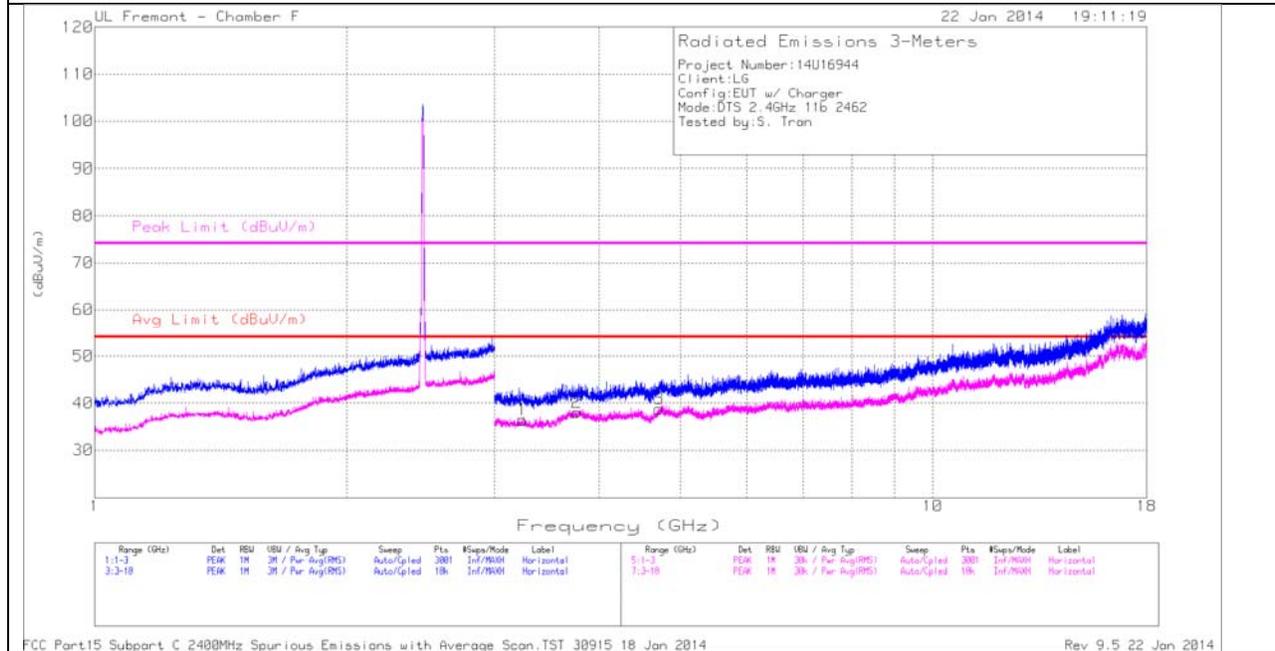
MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.294	33.35	Avg	33.1	-29.4	37.05	53.97	-16.92	74	-36.95	0-360	200	H
2	* 3.576	32.28	Avg	33.6	-28.5	37.38	53.97	-16.59	74	-36.62	0-360	200	H
3	* 4.022	34.03	Avg	33.5	-29.2	38.33	53.97	-15.64	74	-35.67	0-360	101	H
4	* 3.776	35.16	Avg	33.6	-29.3	39.46	53.97	-14.51	74	-34.54	0-360	101	V
5	4.472	33.62	Avg	33.9	-28.5	39.02	53.97	-14.95	74	-34.98	0-360	101	V
6	* 4.816	31.95	Avg	34.1	-27.3	38.75	53.97	-15.22	74	-35.25	0-360	101	V

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

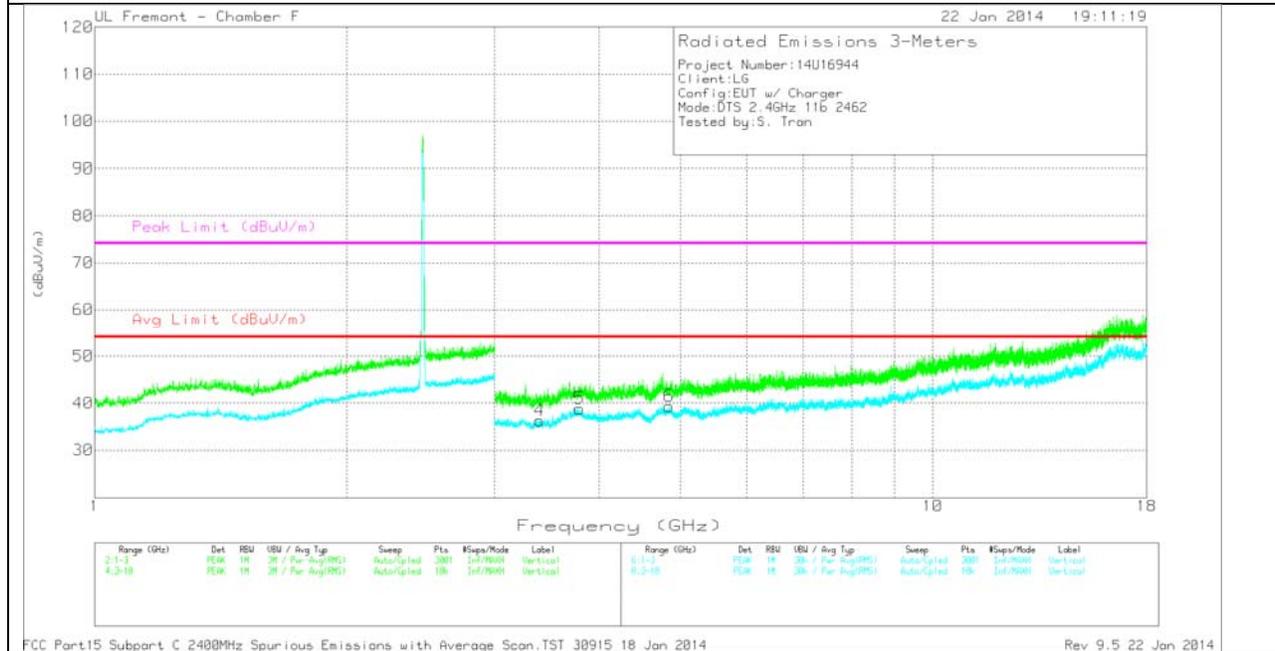
Avg - Video bandwidth < Resolution bandwidth

**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.

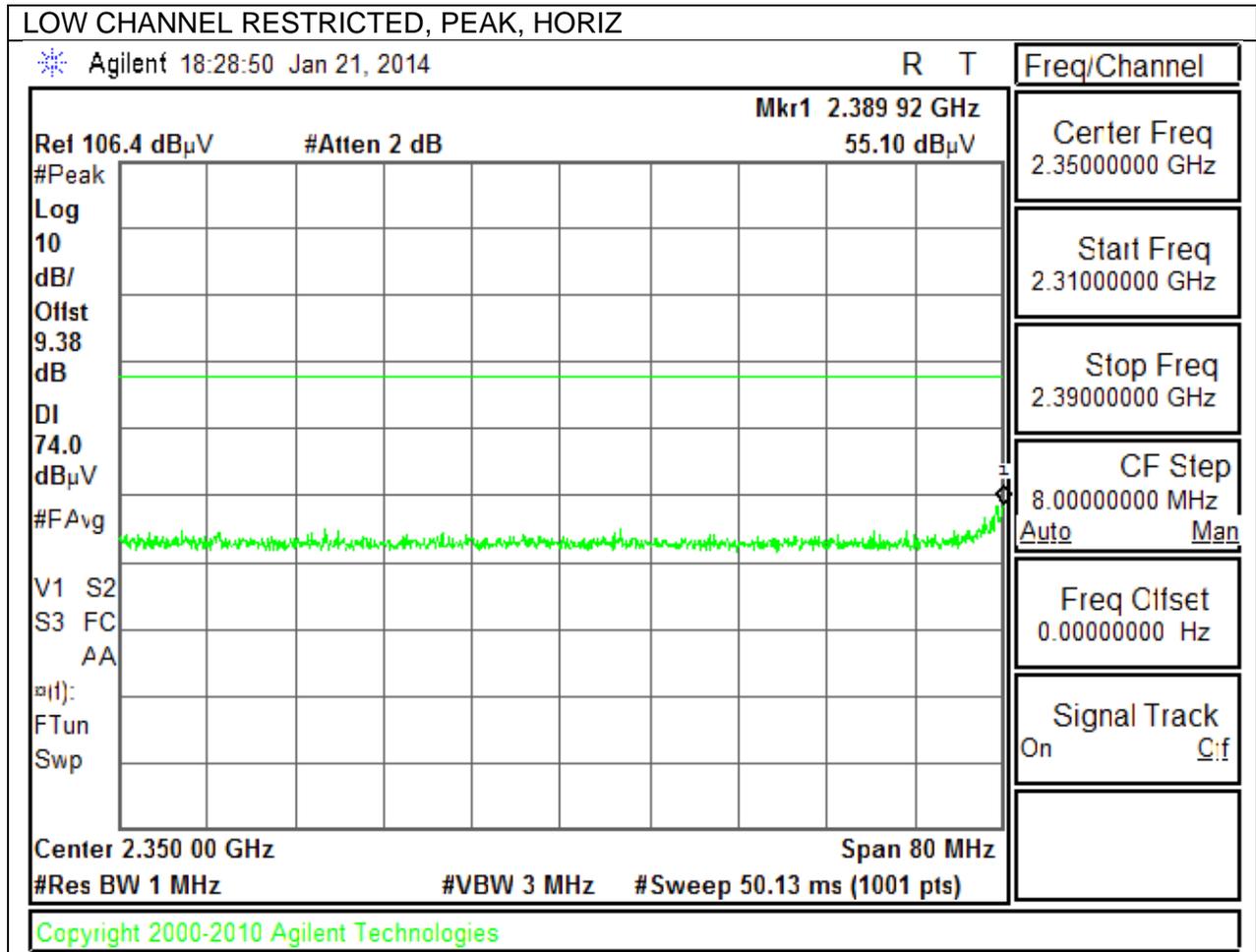
HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.24	31.98	Avg	33.2	-28.8	36.38	53.97	-17.59	74	-37.62	0-360	200	H
2	* 3.76	33.86	Avg	33.6	-29.4	38.06	53.97	-15.91	74	-35.94	0-360	101	H
3	* 4.714	33.11	Avg	34.1	-28.4	38.81	53.97	-15.16	74	-35.19	0-360	101	H
4	3.394	32.89	Avg	33	-29.6	36.29	53.97	-17.68	74	-37.71	0-360	201	V
5	* 3.788	34.32	Avg	33.6	-29.1	38.82	53.97	-15.15	74	-35.18	0-360	101	V
6	* 4.849	32.72	Avg	34	-27.4	39.32	53.97	-14.65	74	-34.68	0-360	101	V

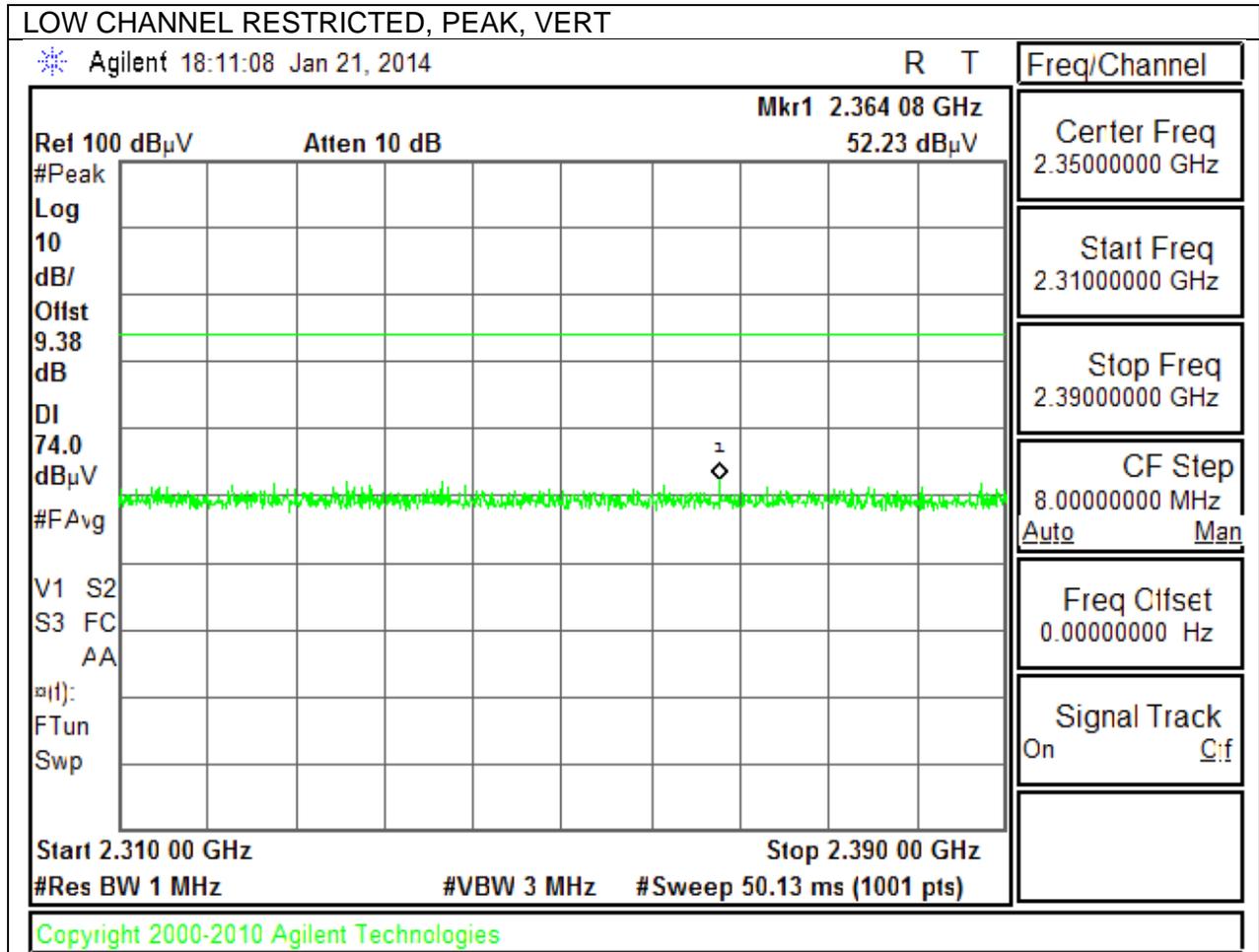
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Avg - Video bandwidth < Resolution bandwidth

**10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND  
 RESTRICTED BANDEDGE (LOW CHANNEL)**

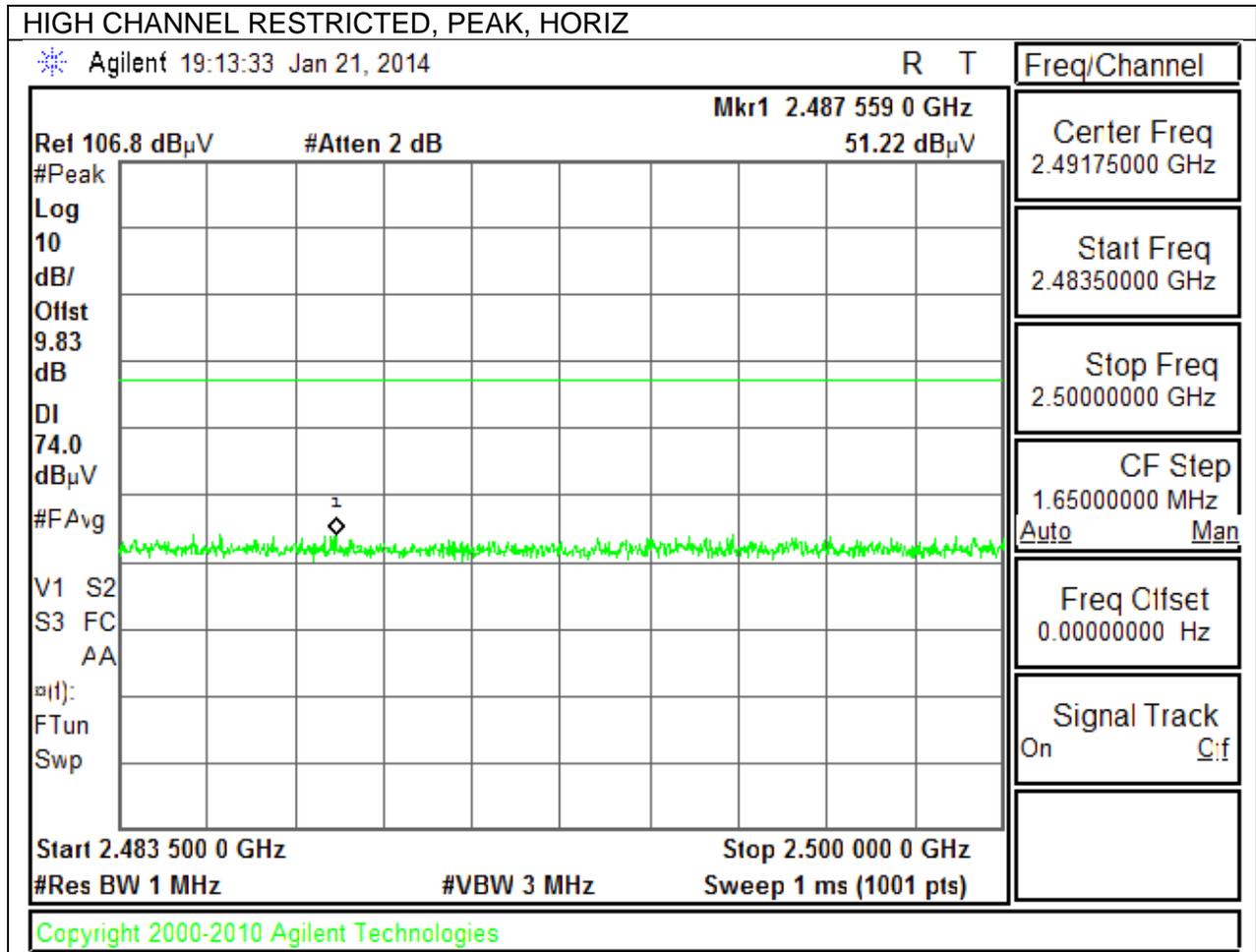


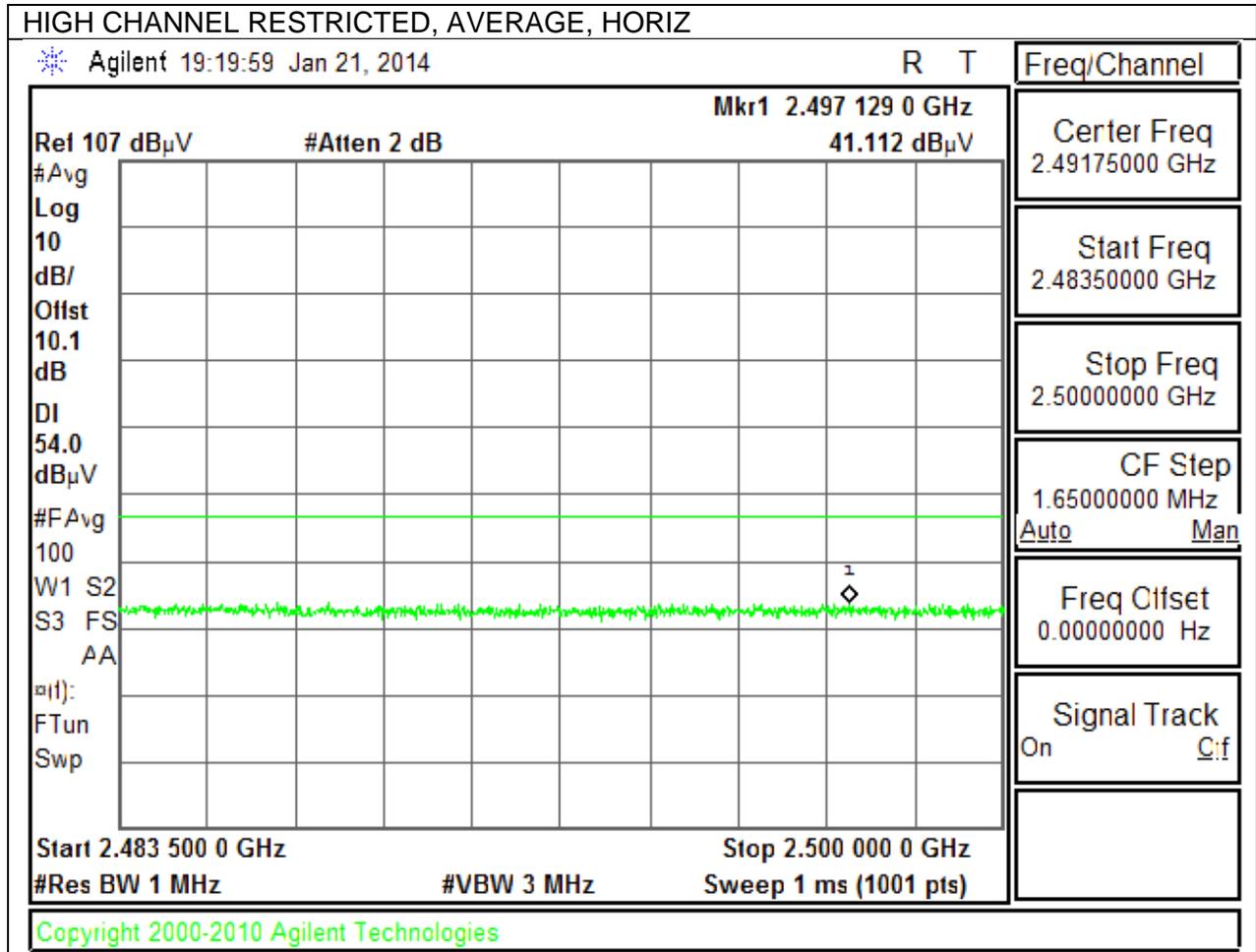


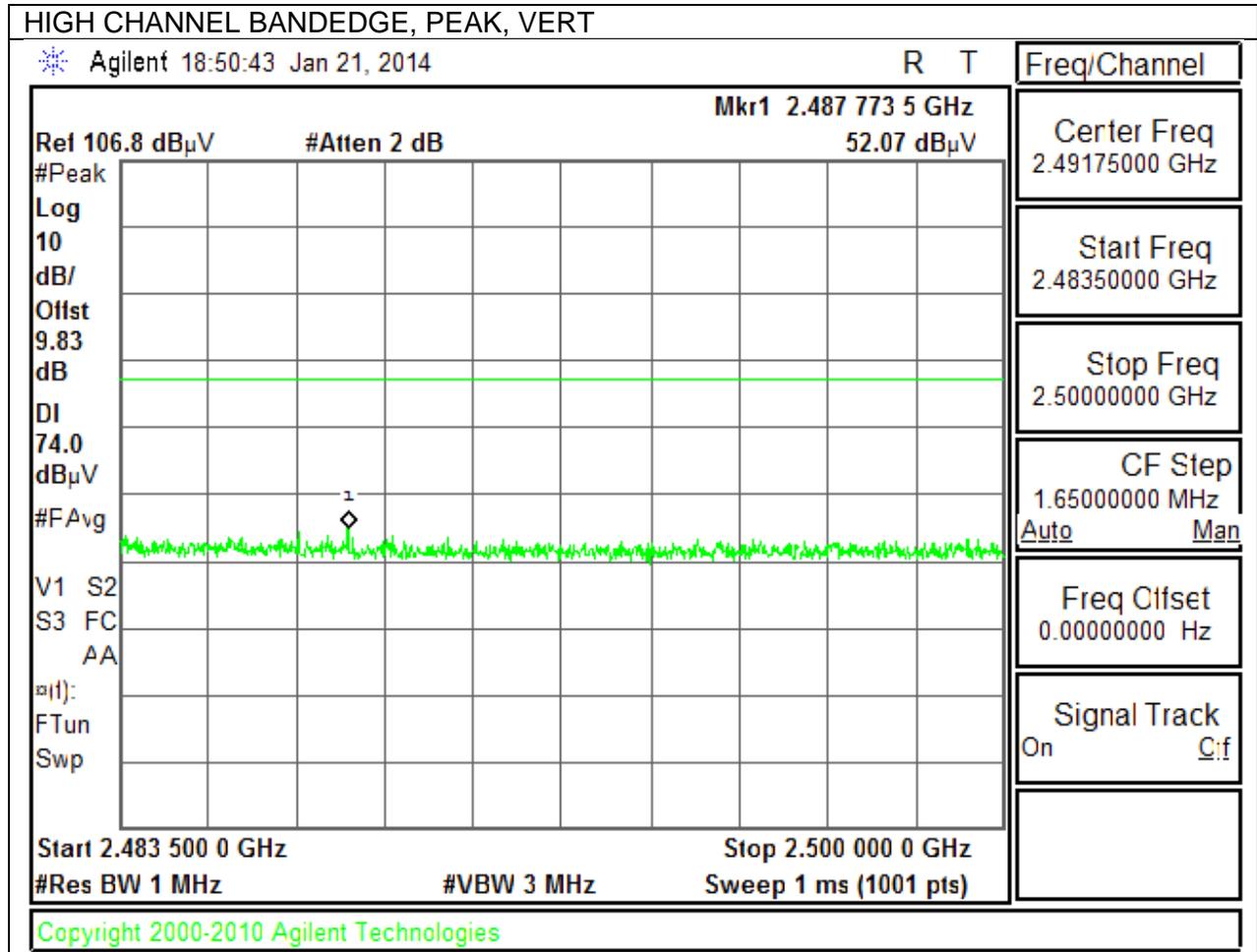


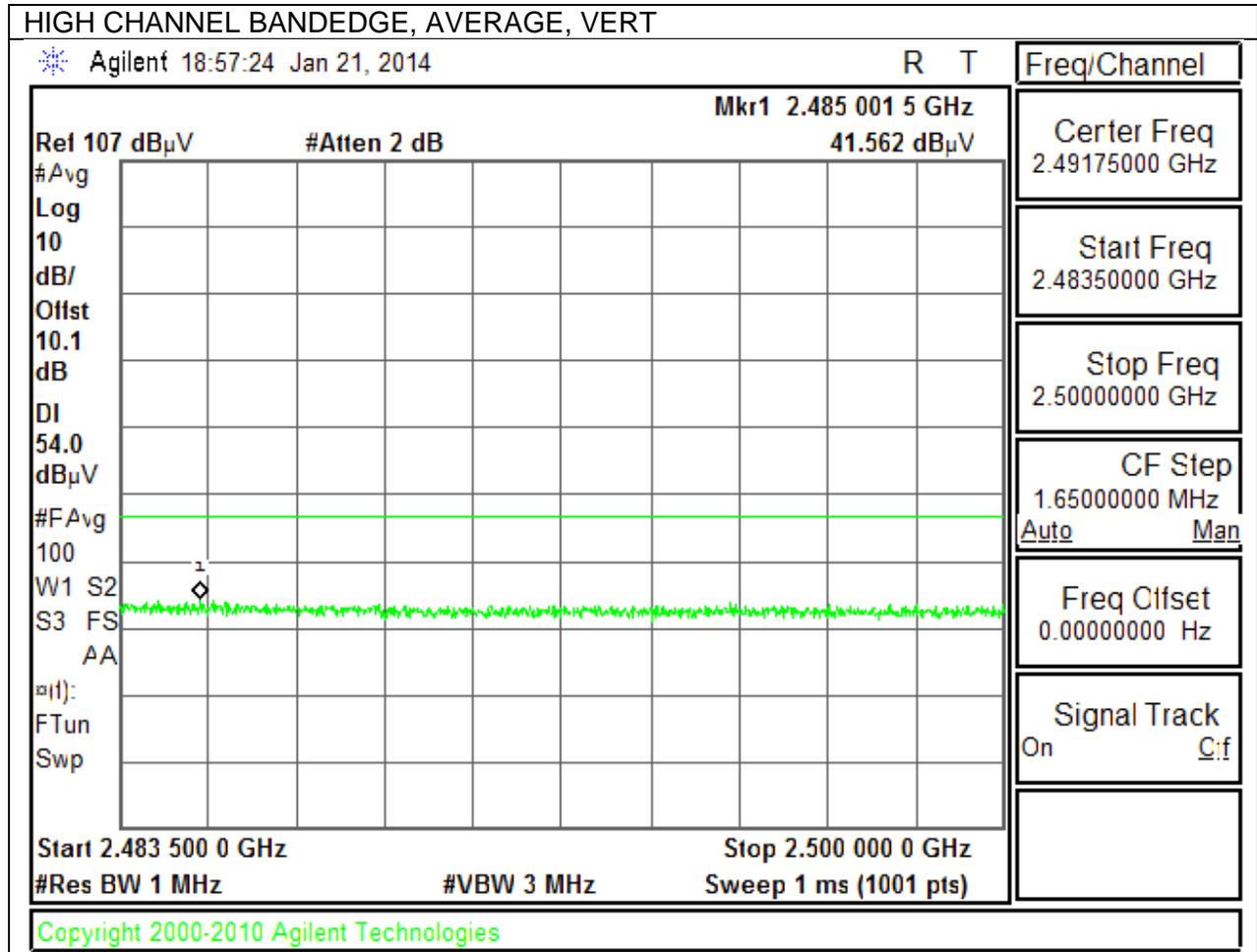


**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

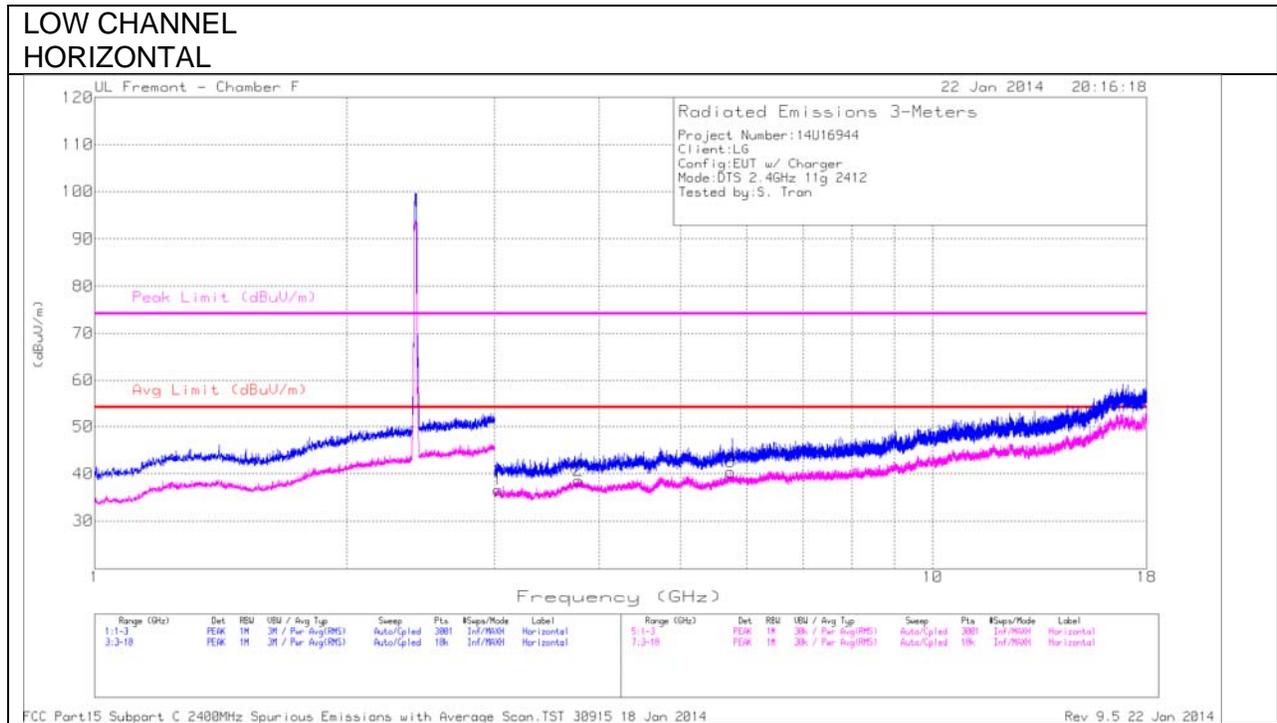






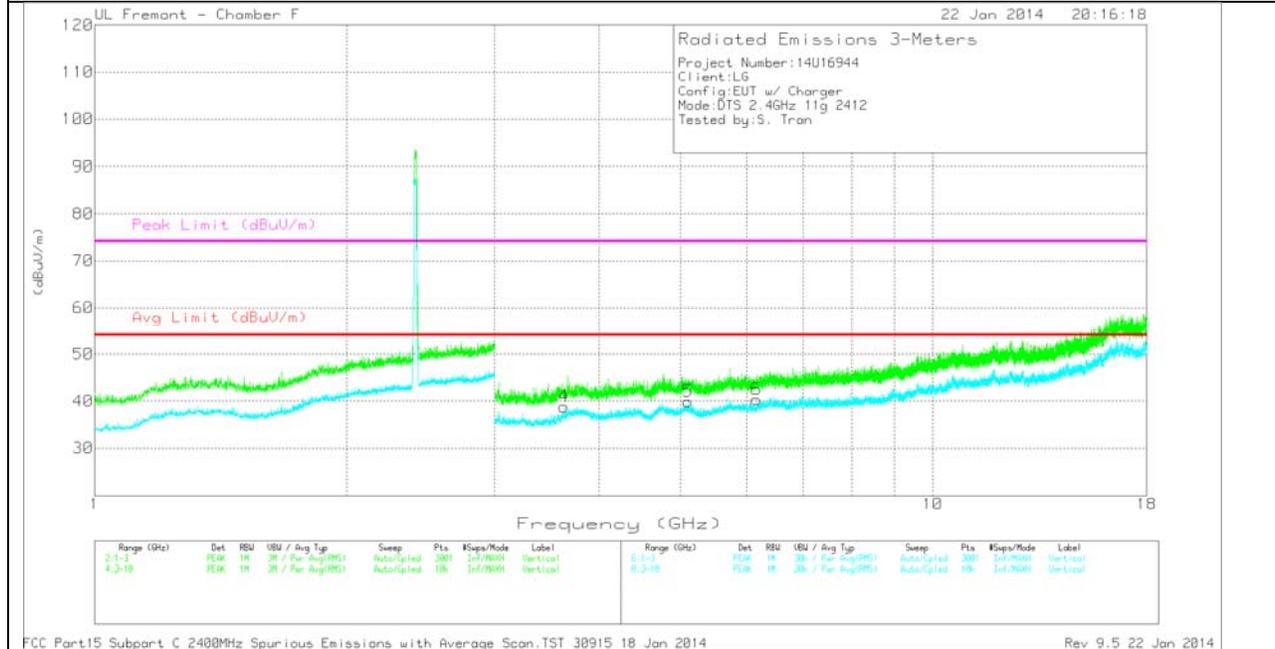


### HARMONICS AND SPURIOUS EMISSIONS



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.

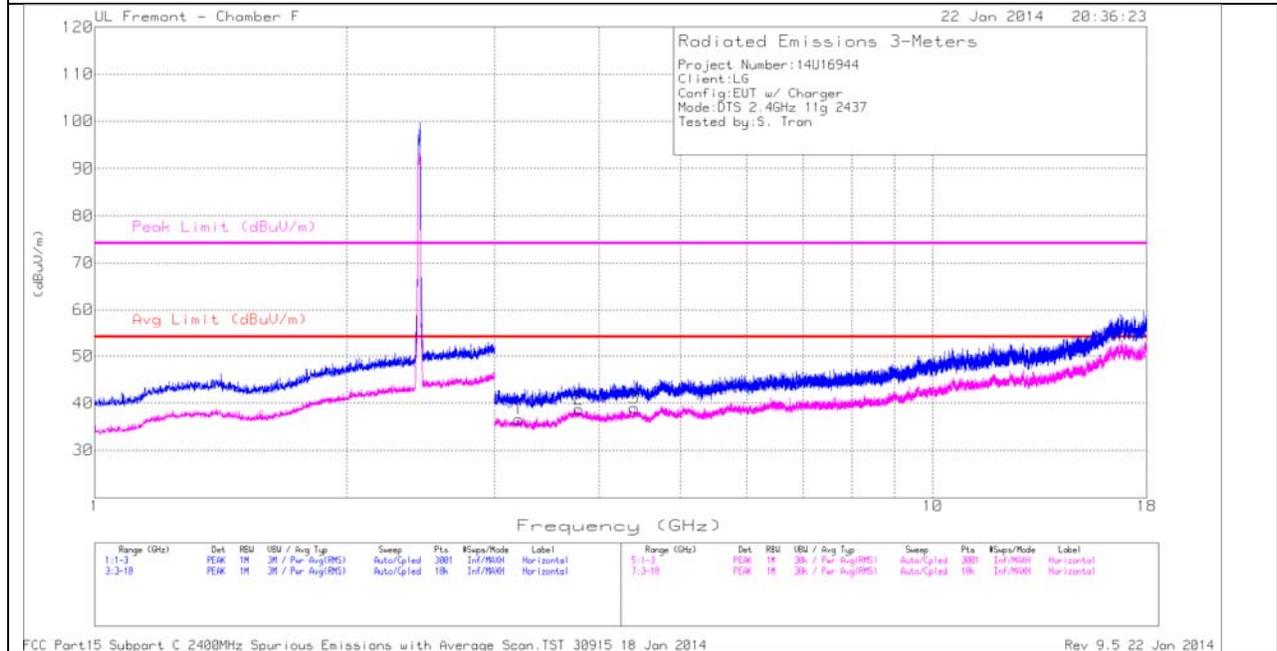
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.031	32.22	Avg	33.2	-28.8	36.62	53.97	-17.35	74	-37.38	0-360	101	H
2	* 3.779	34.16	Avg	33.6	-29.2	38.56	53.97	-15.41	74	-35.44	0-360	199	H
3	5.739	32.78	Avg	34.9	-27.3	40.38	53.97	-13.59	74	-33.62	0-360	101	H
4	* 3.632	34.62	Avg	33.7	-29.5	38.82	53.97	-15.15	74	-35.18	0-360	101	V
5	* 5.106	32.81	Avg	34.2	-27.1	39.91	53.97	-14.06	74	-34.09	0-360	201	V
6	6.161	32.96	Avg	35.4	-28	40.36	53.97	-13.61	74	-33.64	0-360	101	V

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

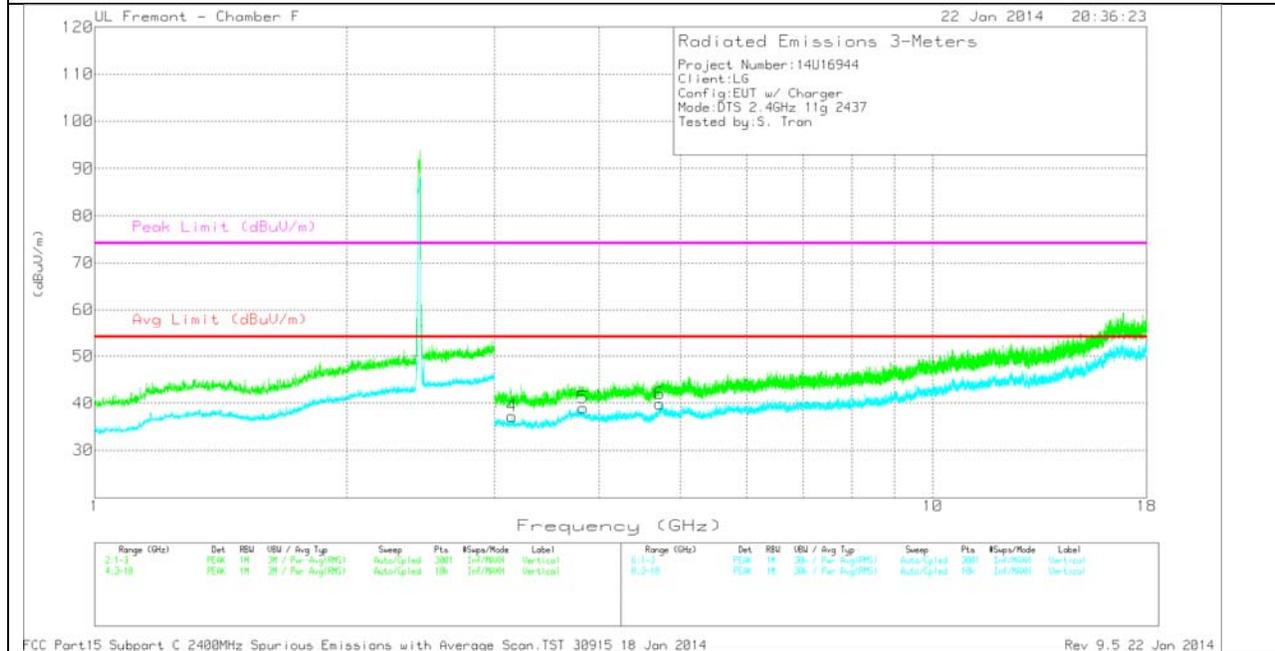
Avg - Video bandwidth < Resolution bandwidth

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

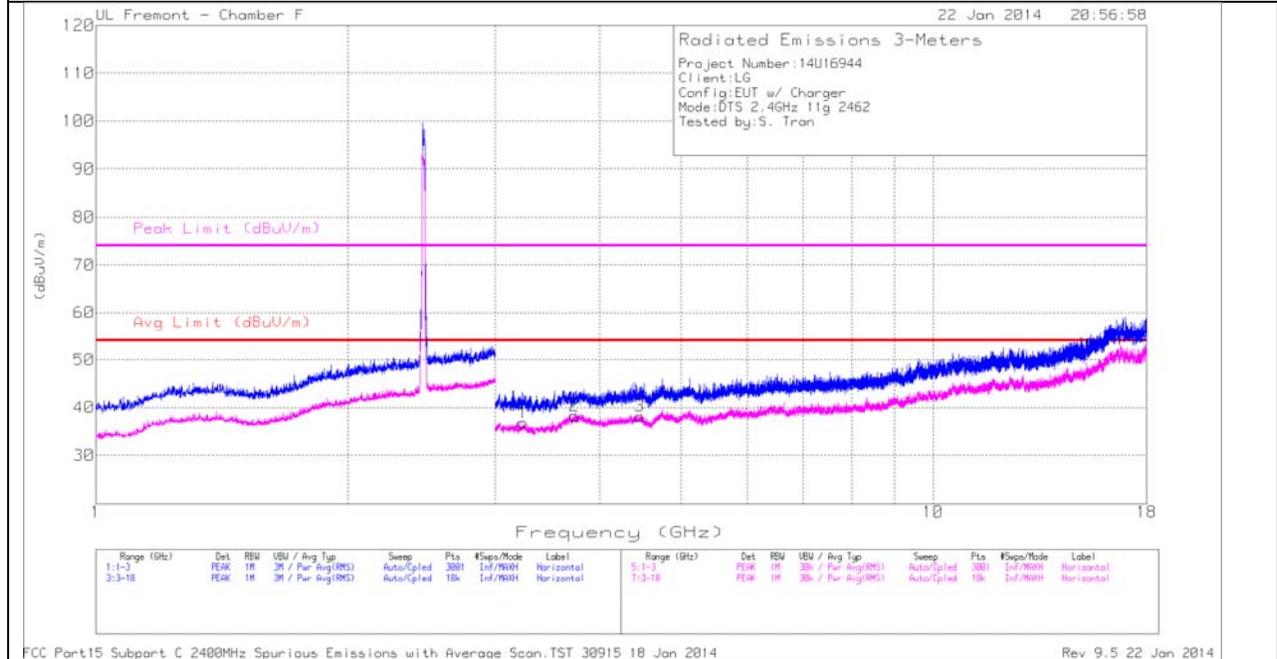
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.208	32.73	Avg	33.2	-29.3	36.63	53.97	-17.34	74	-37.37	0-360	199	H
2	* 3.784	34.24	Avg	33.6	-29.1	38.74	53.97	-15.23	74	-35.26	0-360	101	H
3	4.406	34.48	Avg	33.7	-29.2	38.98	53.97	-14.99	74	-35.02	0-360	101	H
4	3.147	33.81	Avg	33.3	-29.9	37.21	53.97	-16.76	74	-36.79	0-360	201	V
5	* 3.827	34.18	Avg	33.6	-28.8	38.98	53.97	-14.99	74	-35.02	0-360	101	V
6	* 4.722	34.07	Avg	34.1	-28.3	39.87	53.97	-14.1	74	-34.13	0-360	101	V

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

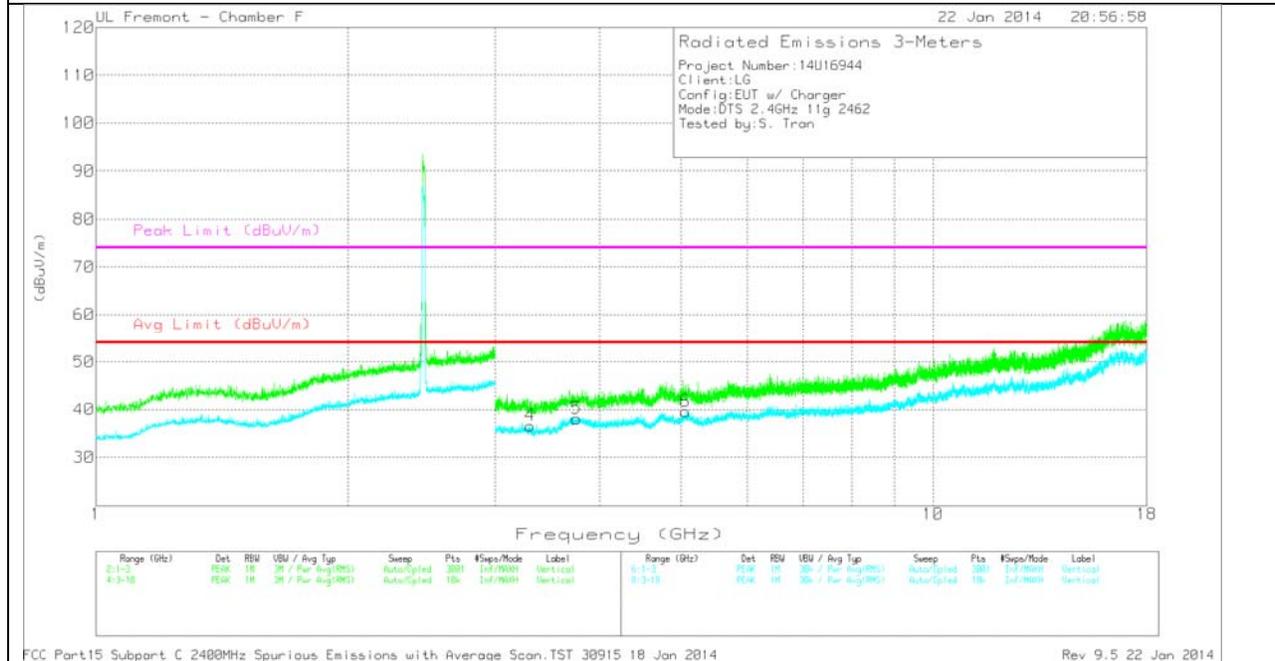
Avg - Video bandwidth < Resolution bandwidth

**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.

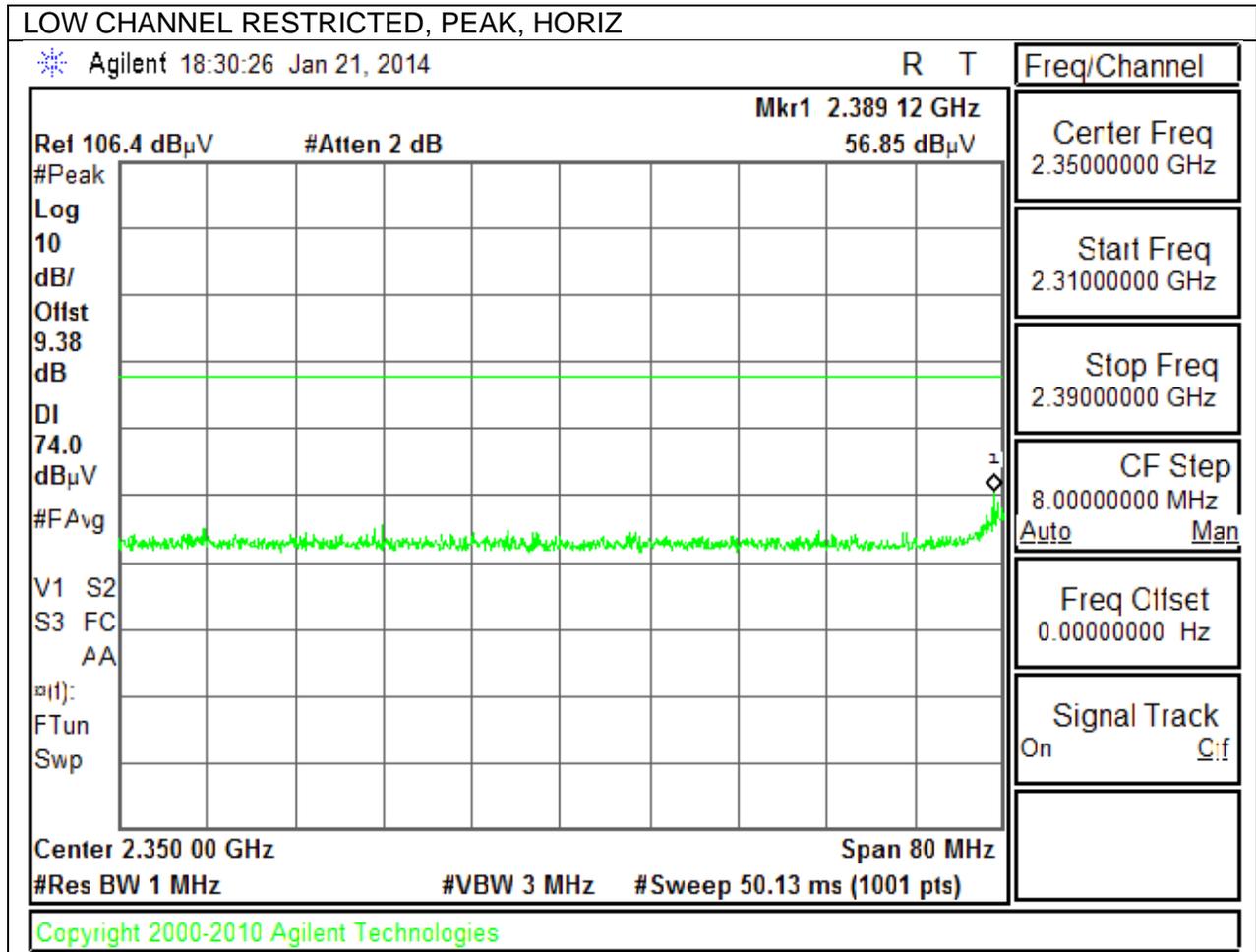
HIGH CHANNEL DATA

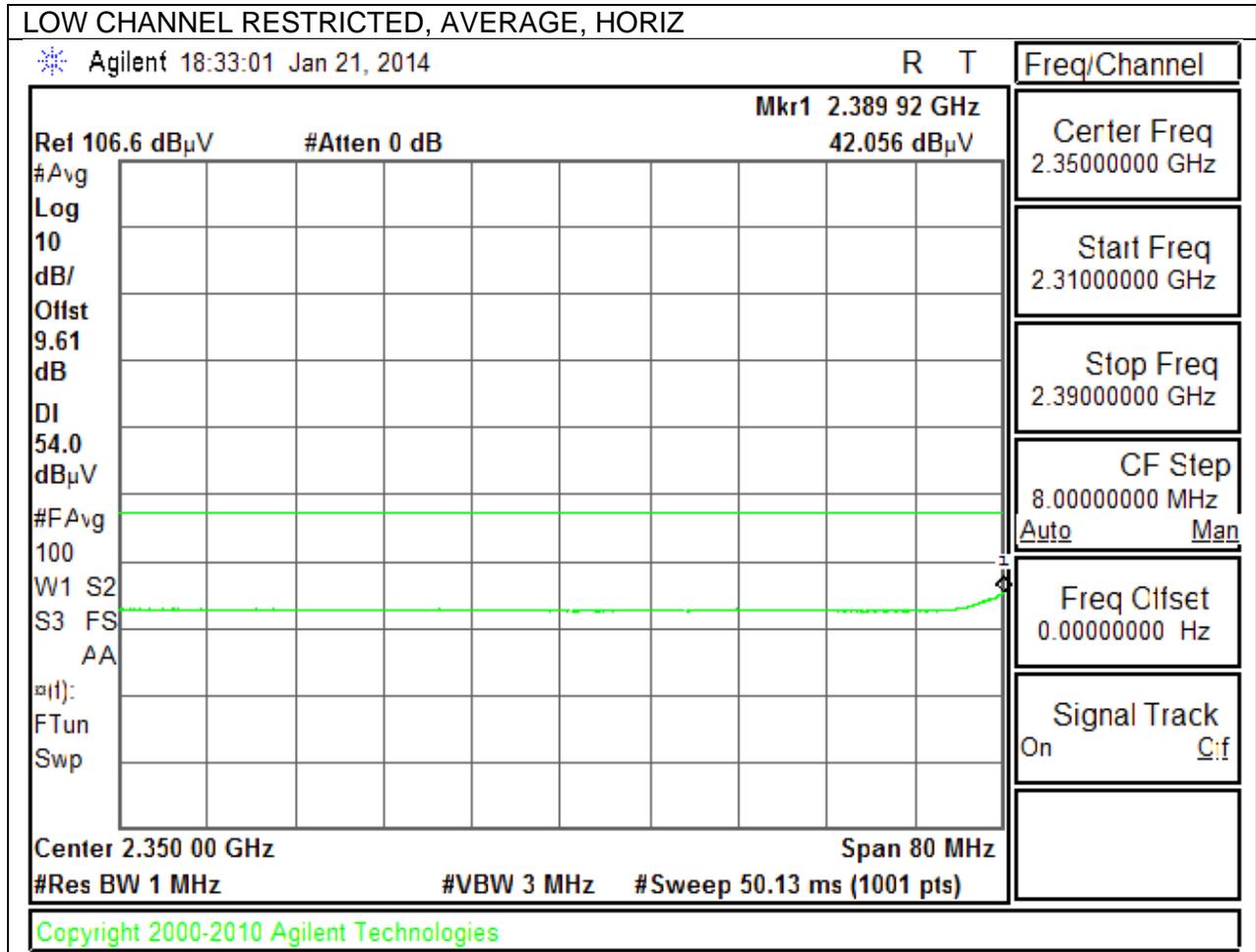
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.24	32.43	Avg	33.2	-28.8	36.83	53.97	-17.14	74	-37.17	0-360	200	H
2	* 3.733	34.13	Avg	33.5	-29.4	38.23	53.97	-15.74	74	-35.77	0-360	200	H
3	4.463	32.68	Avg	33.8	-28.3	38.18	53.97	-15.79	74	-35.82	0-360	101	H
4	3.302	32.9	Avg	33.1	-29.4	36.6	53.97	-17.37	74	-37.4	0-360	201	V
5	* 3.752	34.02	Avg	33.5	-29.4	38.12	53.97	-15.85	74	-35.88	0-360	201	V
6	* 5.062	33.24	Avg	34.1	-27.7	39.64	53.97	-14.33	74	-34.36	0-360	101	V

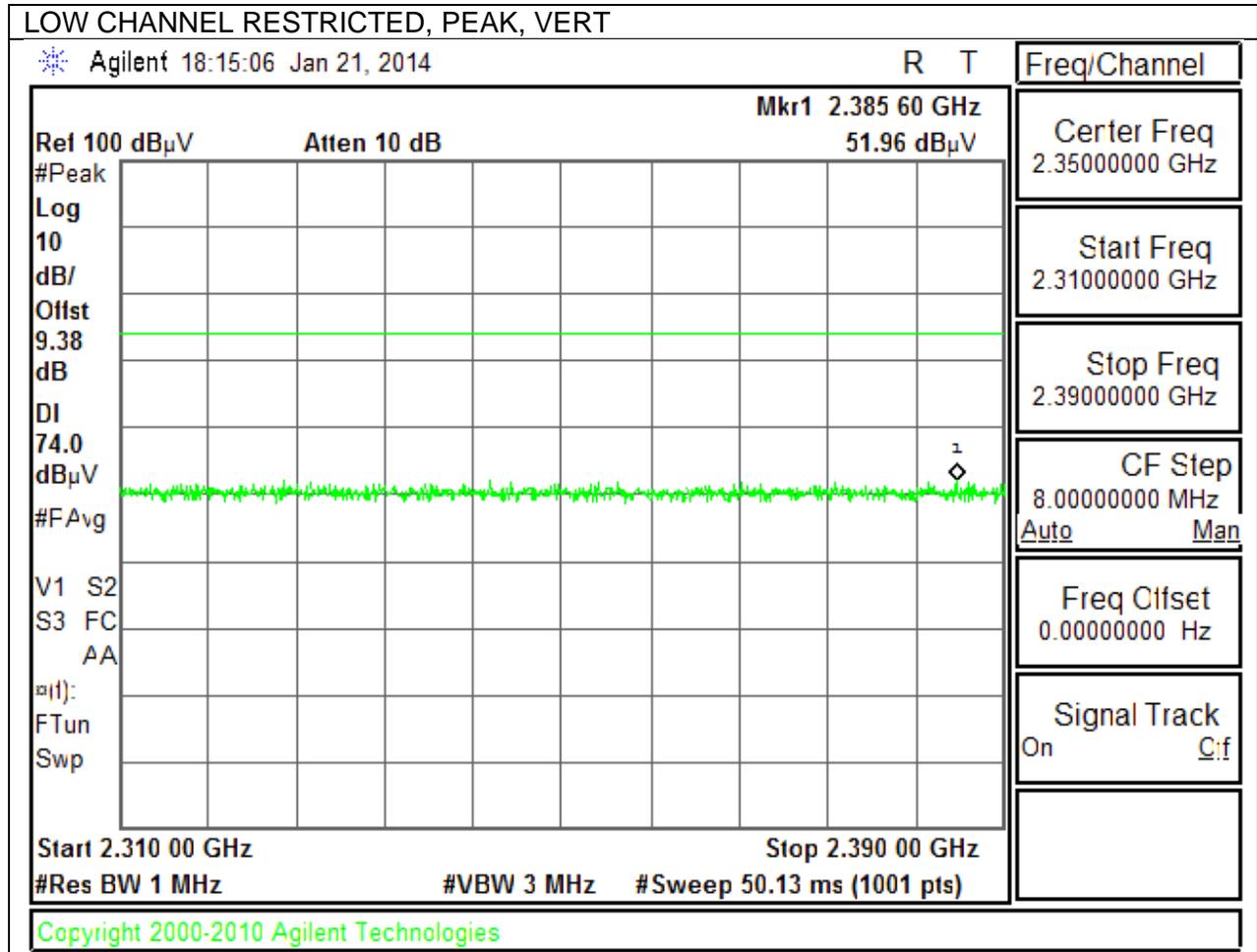
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Avg - Video bandwidth < Resolution bandwidth

**10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND  
 RESTRICTED BANDEDGE (LOW CHANNEL)**

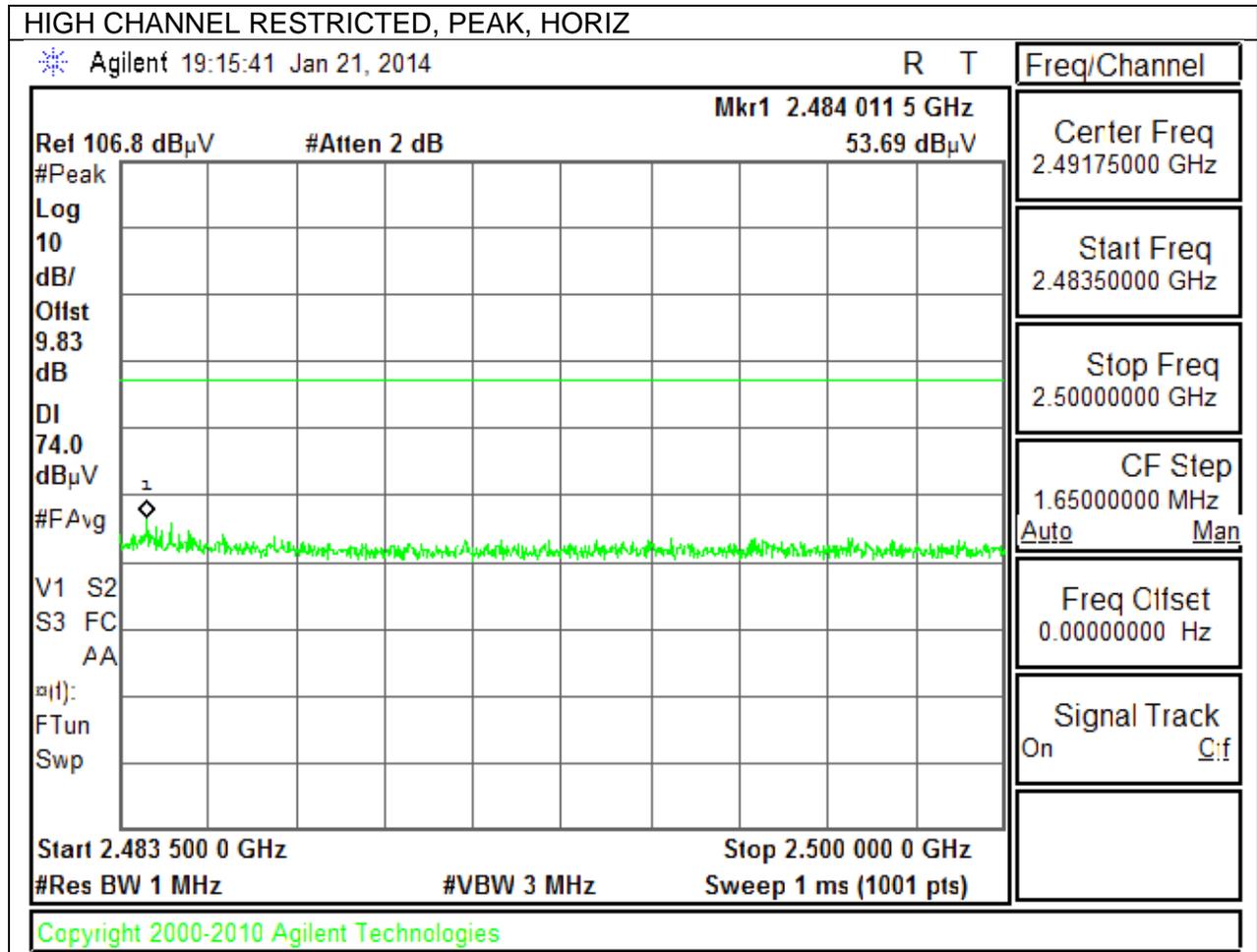


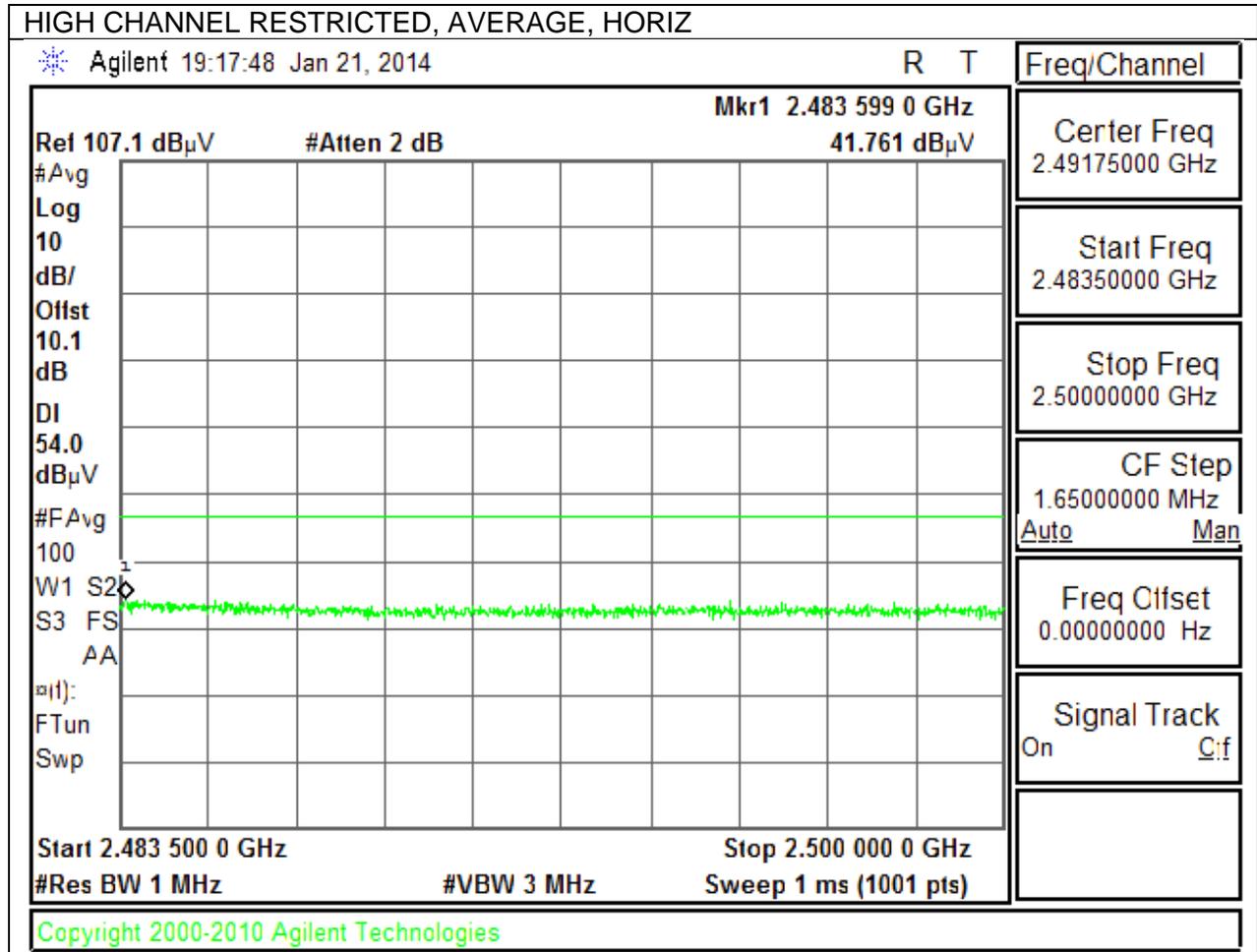


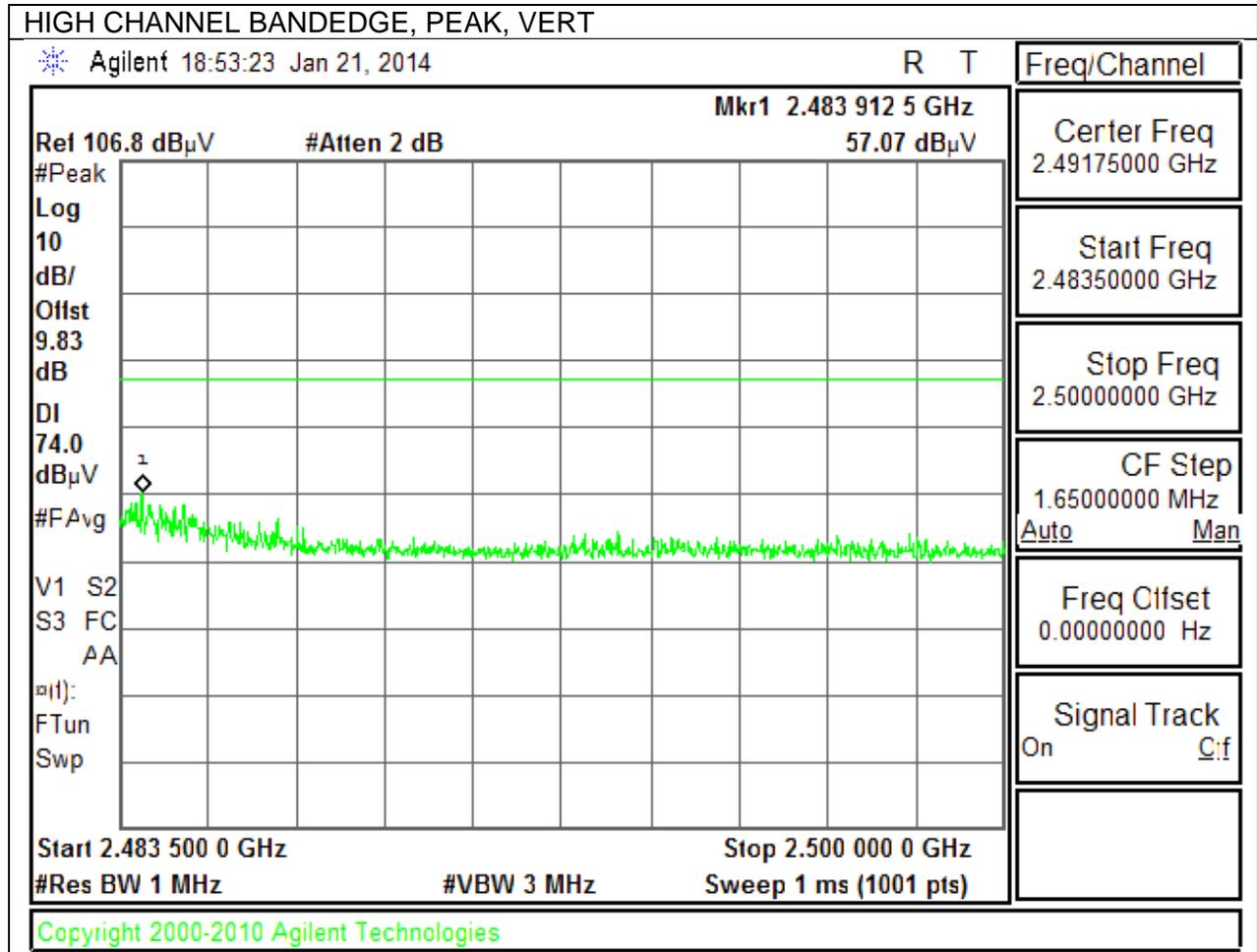


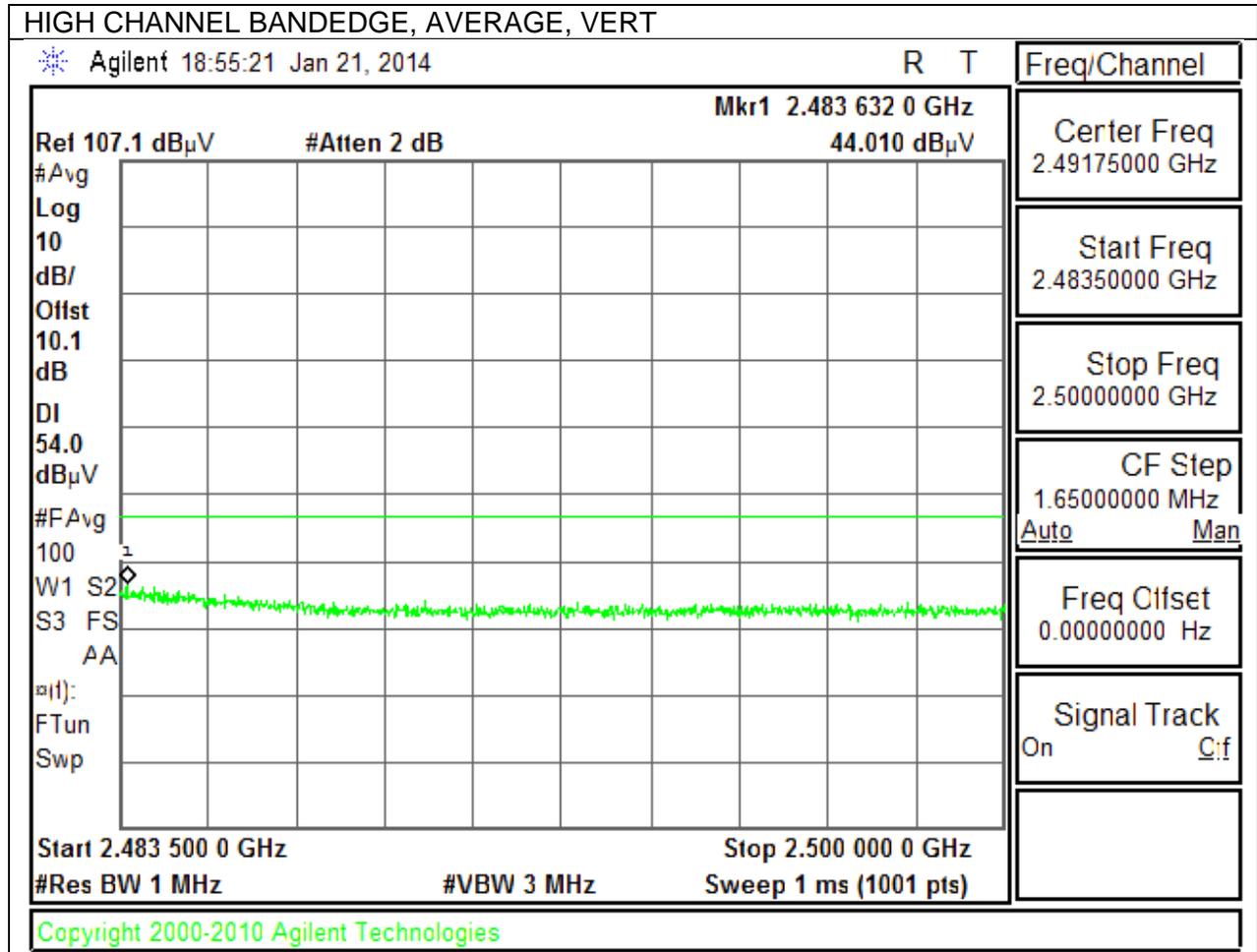


**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

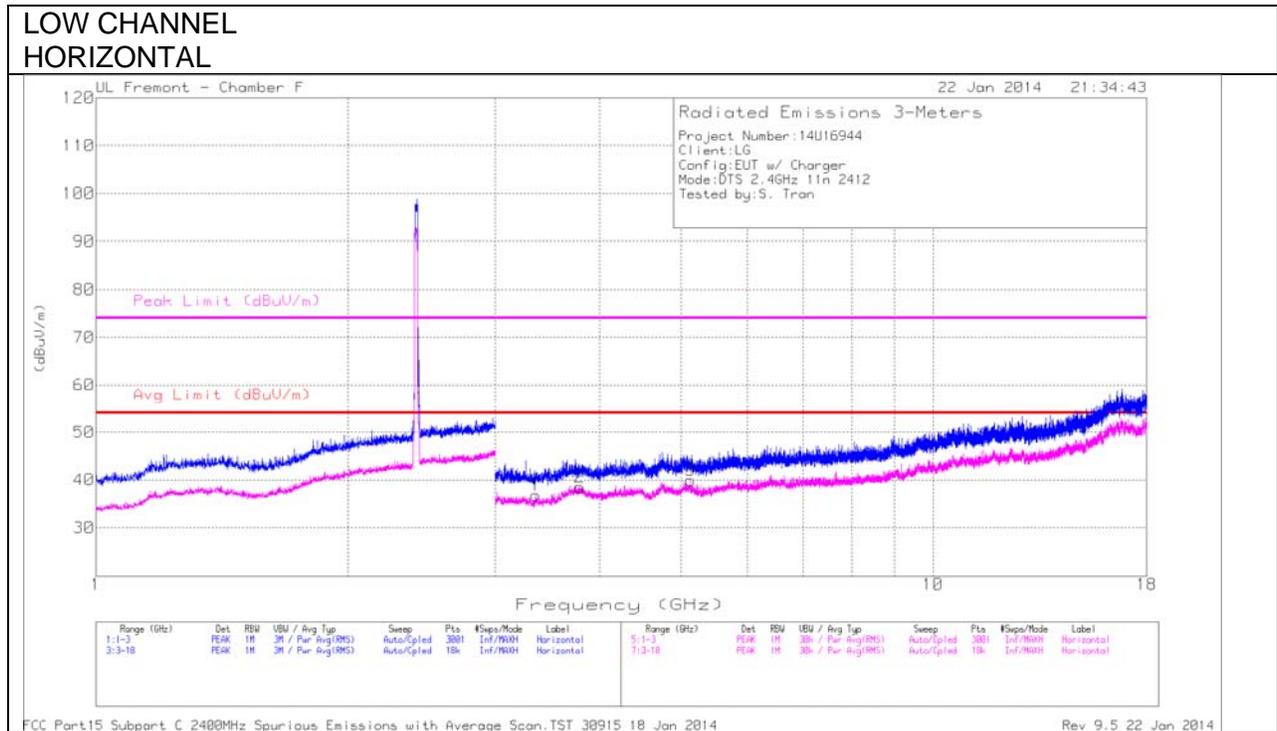






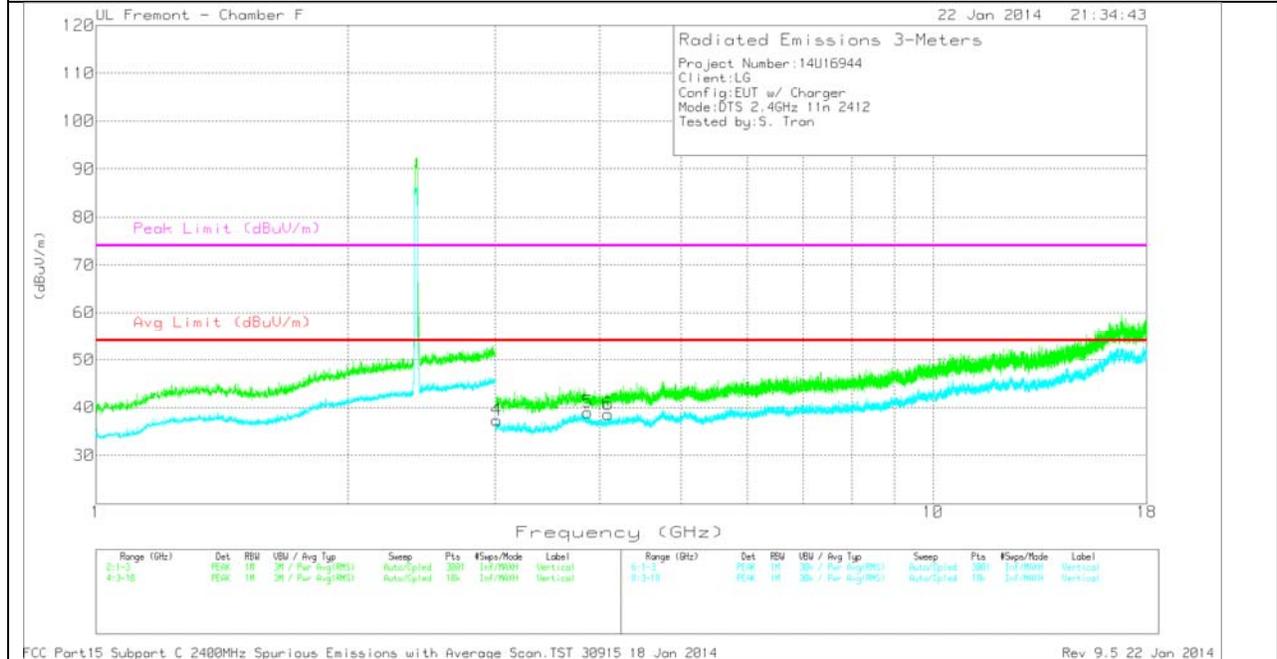


### HARMONICS AND SPURIOUS EMISSIONS



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.

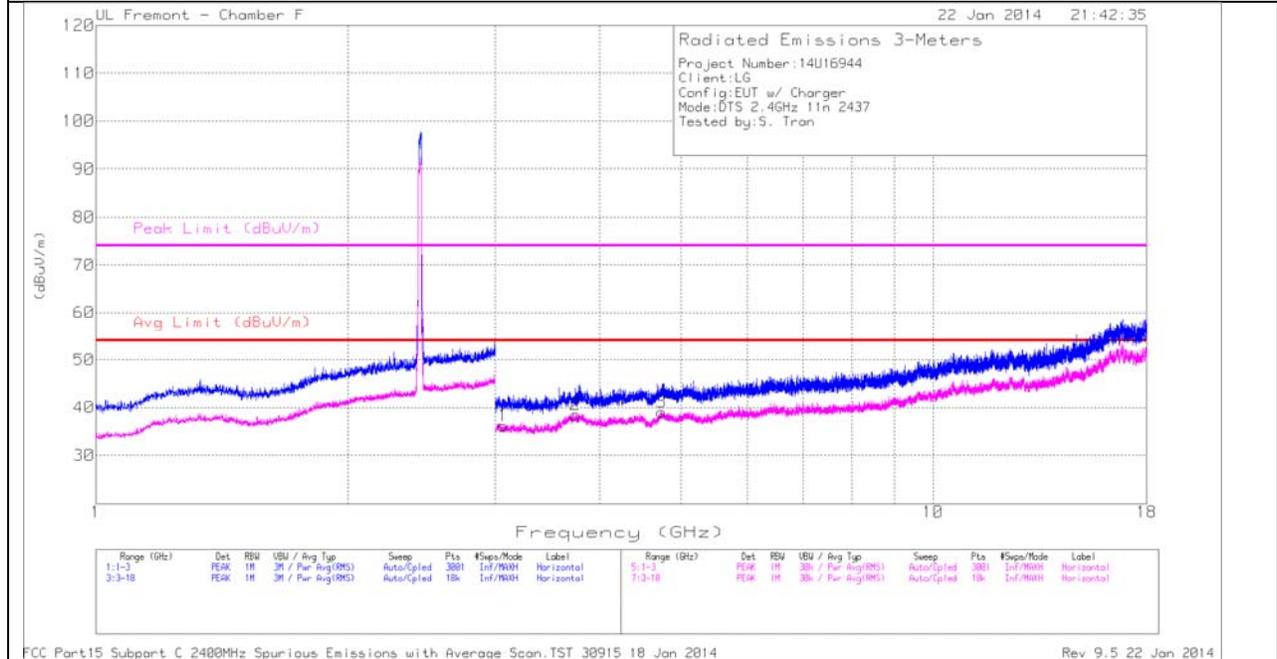
LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.354	33.16	Avg	33	-29.4	36.76	53.97	-17.21	74	-37.24	0-360	200	H
2	* 3.787	33.99	Avg	33.6	-29.1	38.49	53.97	-15.48	74	-35.51	0-360	101	H
3	* 5.131	33	Avg	34.2	-27.3	39.9	53.97	-14.07	74	-34.1	0-360	101	H
4	3.012	33.04	Avg	33.2	-28.9	37.34	53.97	-16.63	74	-36.66	0-360	101	V
5	* 3.869	34.69	Avg	33.5	-29.2	38.99	53.97	-14.98	74	-35.01	0-360	101	V
6	* 4.092	33.64	Avg	33.4	-28.4	38.64	53.97	-15.33	74	-35.36	0-360	101	V

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

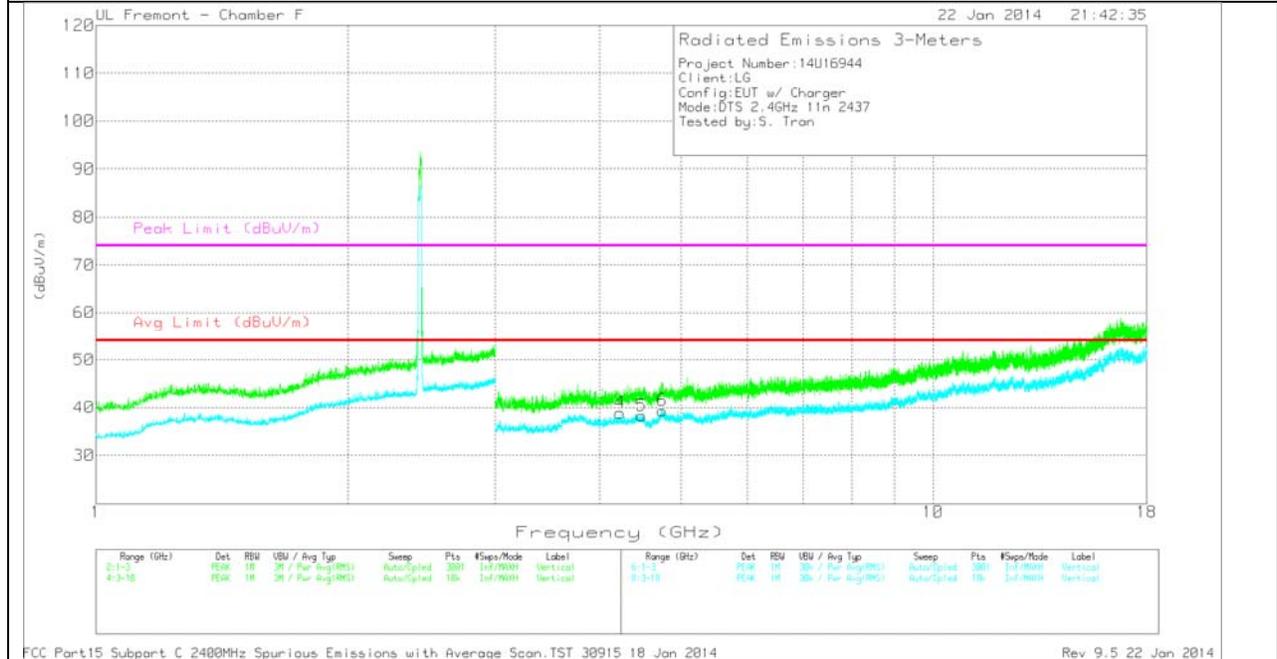
Avg - Video bandwidth < Resolution bandwidth

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.

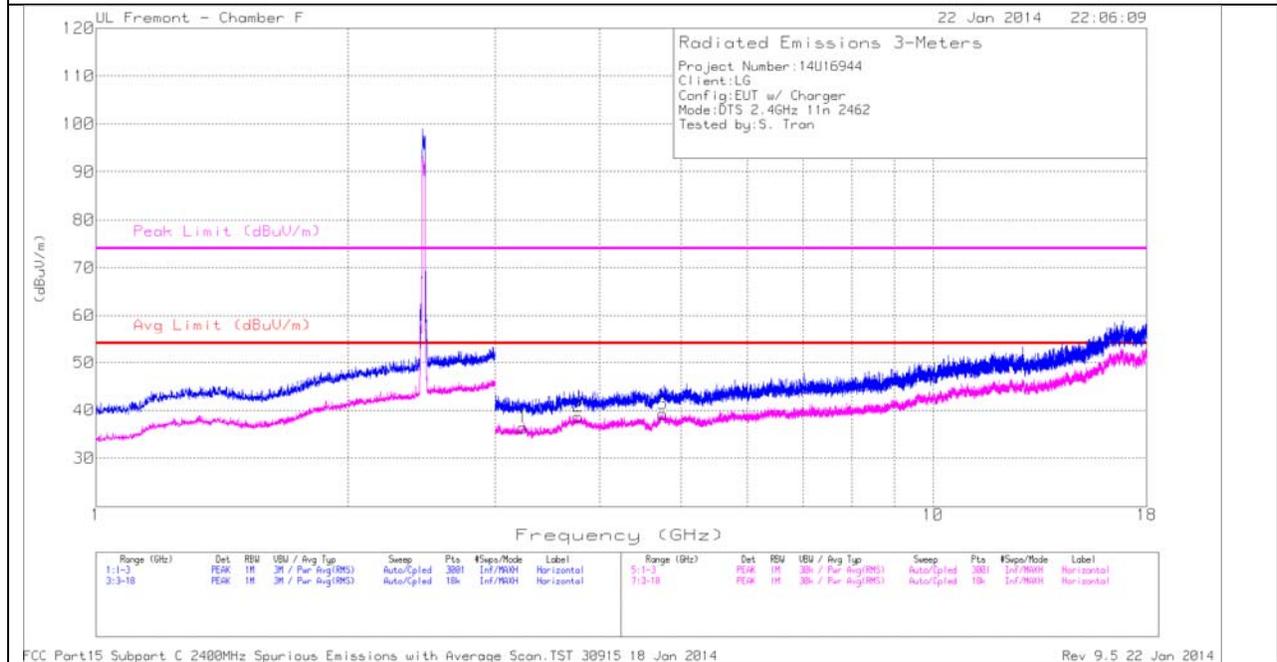
MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.067	32.42	Avg	33.3	-29.6	36.12	53.97	-17.85	74	-37.88	0-360	101	H
2	* 3.744	34.45	Avg	33.5	-29.5	38.45	53.97	-15.52	74	-35.55	0-360	200	H
3	* 4.742	33.19	Avg	34.1	-28.3	38.99	53.97	-14.98	74	-35.01	0-360	200	H
4	* 4.228	33.95	Avg	33.4	-28.5	38.85	53.97	-15.12	74	-35.15	0-360	201	V
5	4.487	32.86	Avg	33.9	-28.5	38.26	53.97	-15.71	74	-35.74	0-360	201	V
6	* 4.75	33.73	Avg	34.1	-28.5	39.33	53.97	-14.64	74	-34.67	0-360	101	V

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

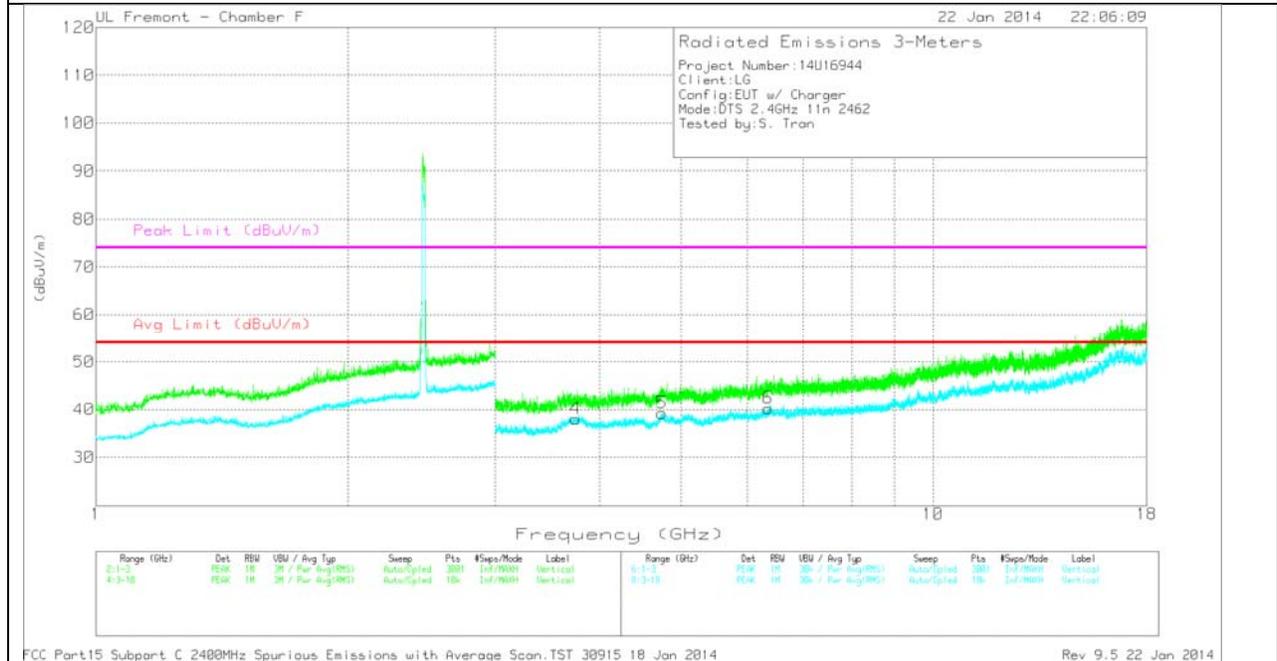
Avg - Video bandwidth < Resolution bandwidth

**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

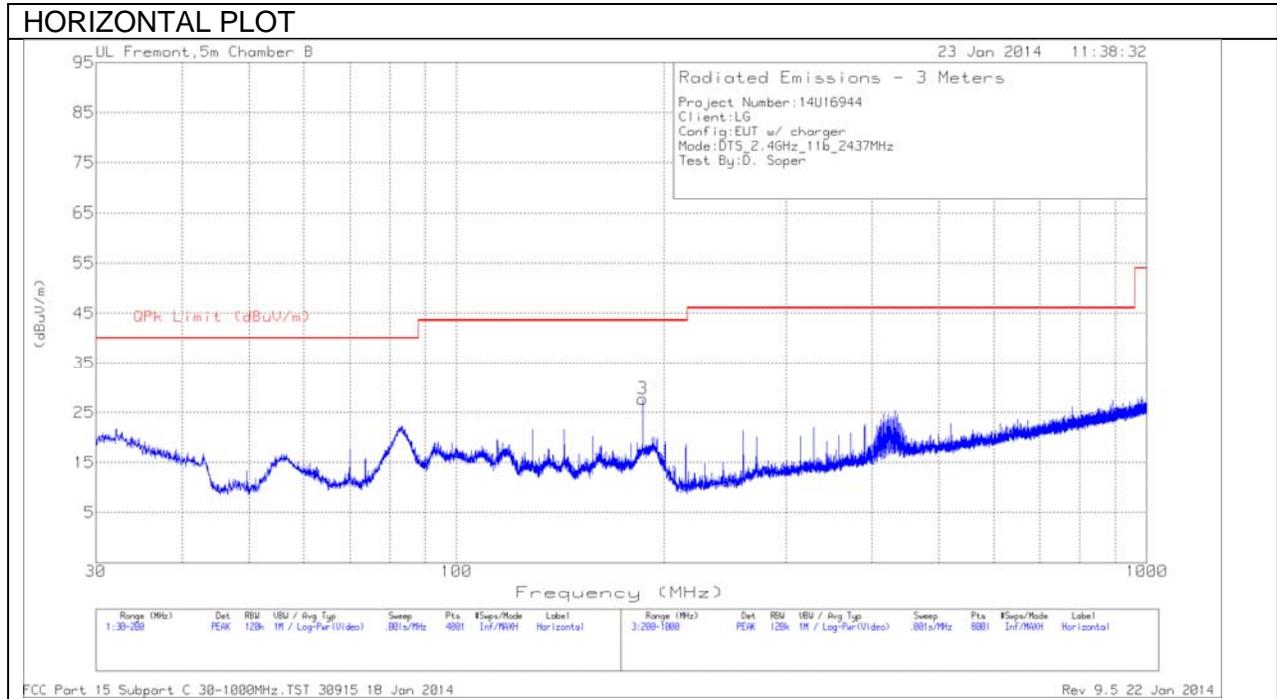
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.239	31.99	Avg	33.2	-28.8	36.39	53.97	-17.58	74	-37.61	0-360	200	H
2	* 3.767	34.47	Avg	33.6	-29.4	38.67	53.97	-15.3	74	-35.33	0-360	101	H
3	* 4.757	33.66	Avg	34.1	-28.5	39.26	53.97	-14.71	74	-34.74	0-360	101	H
4	* 3.742	34.05	Avg	33.5	-29.5	38.05	53.97	-15.92	74	-35.95	0-360	201	V
5	* 4.746	33.53	Avg	34.1	-28.4	39.23	53.97	-14.74	74	-34.77	0-360	101	V
6	6.353	32.04	Avg	35.6	-27.4	40.24	53.97	-13.73	74	-33.76	0-360	201	V

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

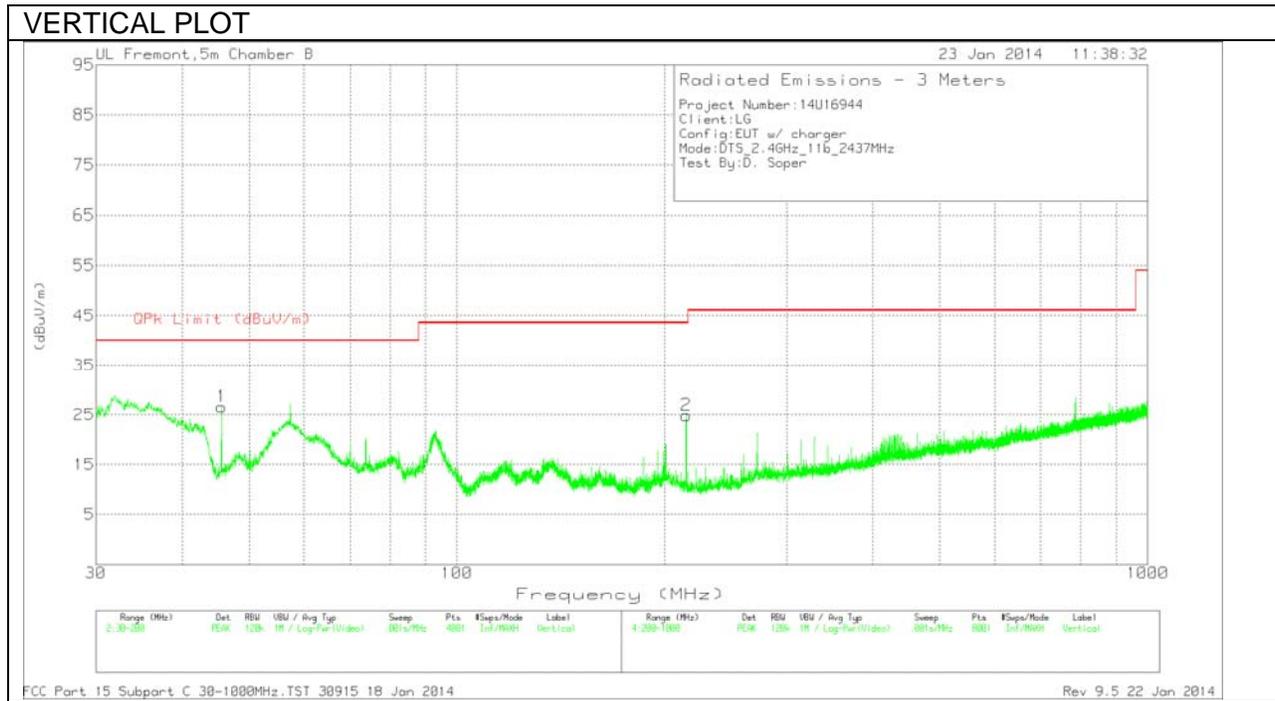
Avg - Video bandwidth < Resolution bandwidth

### 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
1	45.64	45.56	PK	9.7	-28.7	26.56	40	-13.44	0-360	101	V
3	186.1025	43.82	PK	11	-27.1	27.72	43.52	-15.8	0-360	101	H
2	214.8	41.18	PK	10.5	-26.8	24.88	43.52	-18.64	0-360	200	V

PK - Peak detector