



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

**FOR
CDMA/LTE PHONE + BLUETOOTH & 2.4GHz DTS b/g/n**

MODEL NUMBER: LG-US550, LGUS550, US550

FCC ID: ZNFUS550

REPORT NUMBER: 14I19592-E4

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: CDMA/LTE PHONE + BLUETOOTH & 2.4GHz DTS b/g/n
MODEL: LG-US550
SERIAL NUMBER: 411KPPB000040, 411KPJP000036
DATE TESTED: DECEMBER 8-16, 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.

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UL VERIFICATION SERVICES INC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, and FCC CFR 47 Part 15C.

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
☐ Chamber A(IC: 2324B-1)	☐ Chamber D(IC: 2324B-4)
☒ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 2324B-5)
☒ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 2324B-6)
	☐ Chamber G(IC: 2324B-7)
	☐ 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 a CDMA/LTE PHONE + BLUETOOTH, & 2.4GHz DTS b/g/n.

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	14.4	27.54
2412 - 2462	802.11g	10.7	11.75
2412 - 2462	802.11n HT20	10.2	10.47

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -3.1dBi.

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

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-01WR	RD4X0891946	N/A
Earphone	LG	LG-US550	N/A	N/A

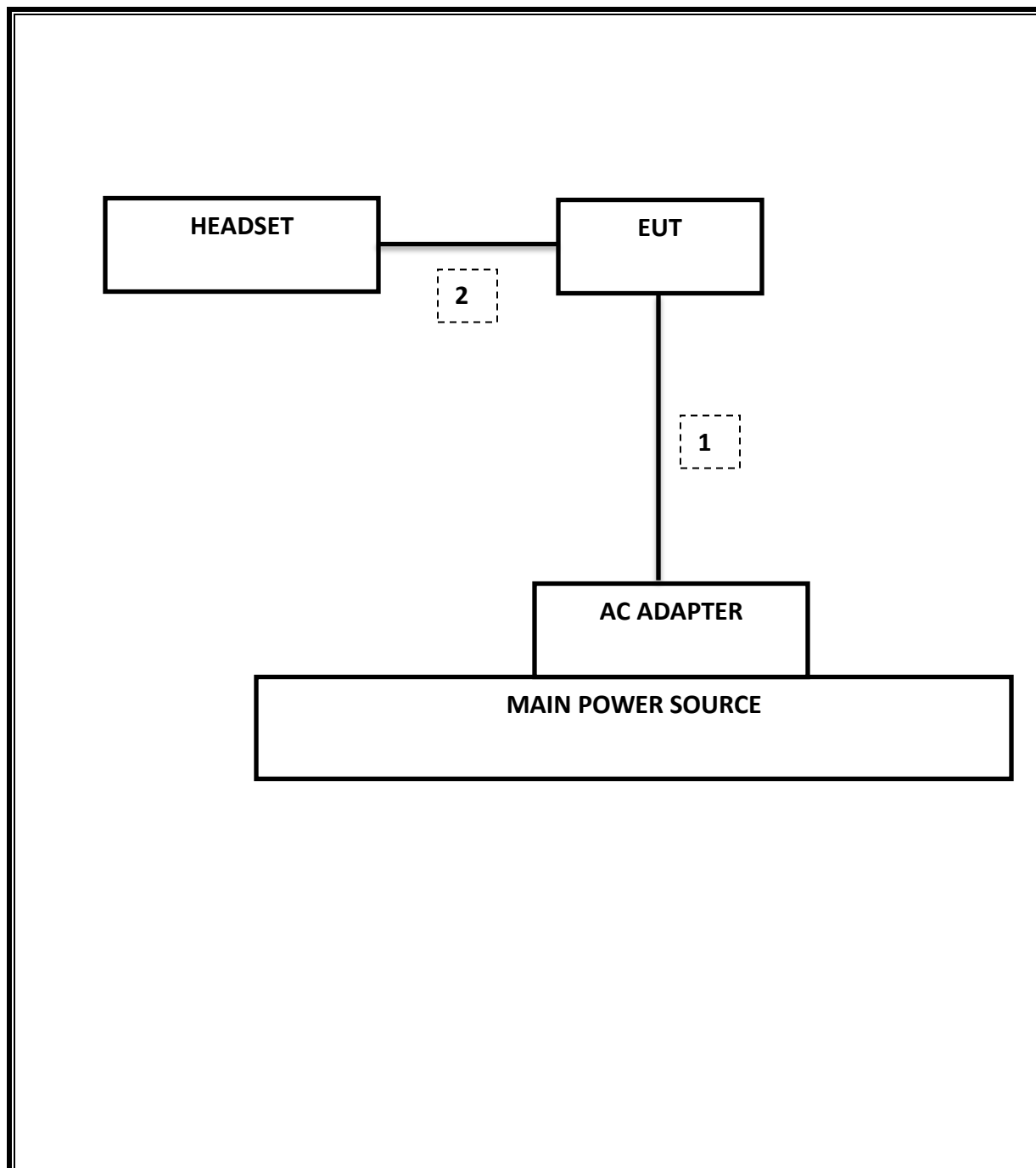
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	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	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	08/13/15
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/18/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
Antenna, Horn, 1-18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn, 18- 26 GHz	ARA	MWH-1826/B	C00946	11/12/15
Antenna, Horn, 26-40 GHz	ARA	MWH-2640	C00891	06/28/15
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	T243	03/06/15
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/15
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
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	05/23/15
High Pass Filter 5GHz	Micro-Tronics	HPS17542	F00222	05/22/15
High Pass Filter 6GHz	Micro-Tronics	HPM17543	F00224	05/22/15

7. MEASUREMENT METHODS

KDB 558074 D01 DTS Meas Guidance v03r02: 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. 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	9.07 MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-48.25 dBm
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	14.40 dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-12.29 dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	46.89 dBuV
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	51.43 dBuV/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 100 kHz, 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	9.10	0.5
Mid	2437	9.07	0.5
High	2462	9.13	0.5
Worst		9.07	

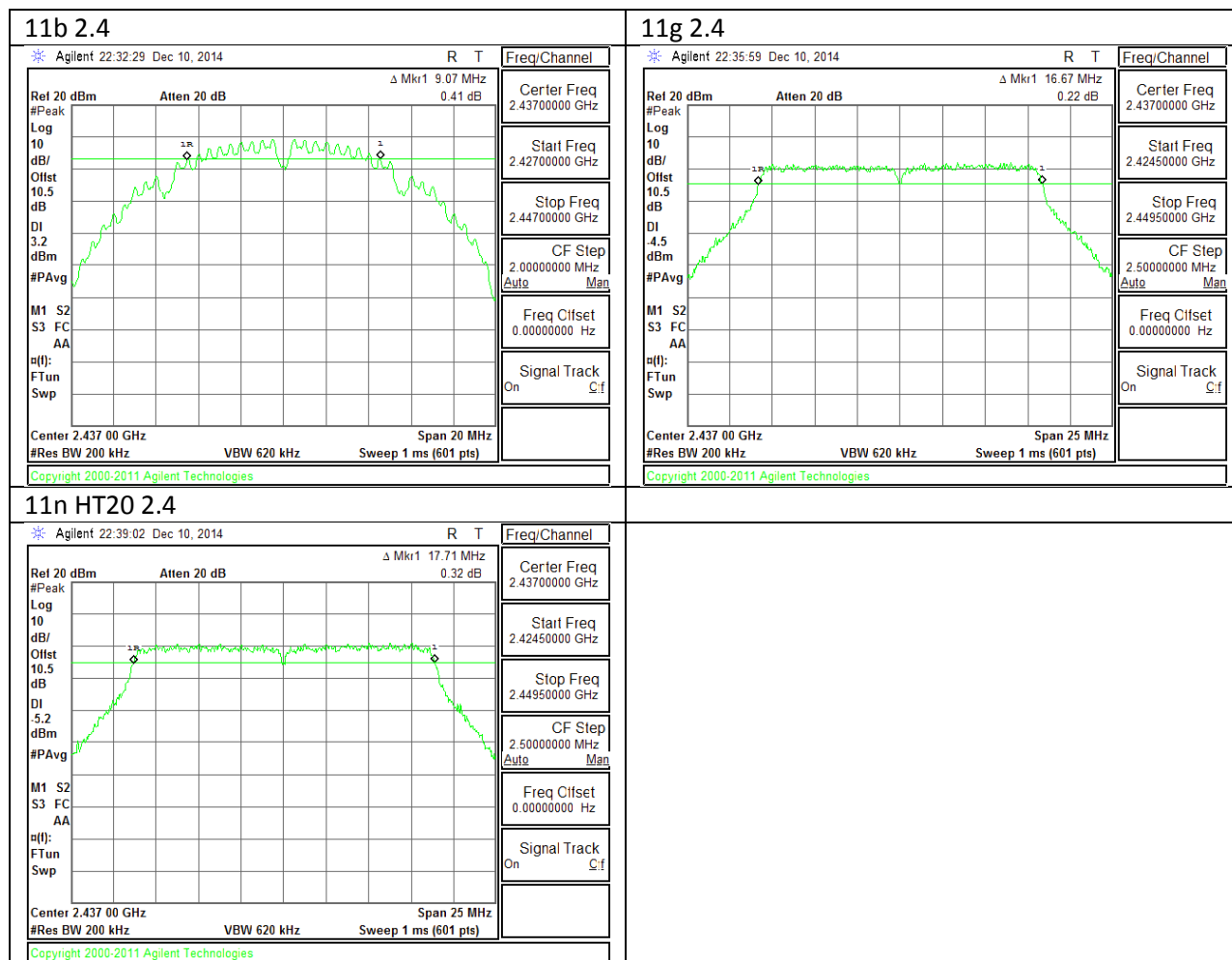
9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	16.50	0.5
Mid	2437	16.67	0.5
High	2462	16.54	0.5
Worst		16.50	

9.1.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	17.71	0.5
Mid	2437	17.71	0.5
High	2462	17.71	0.5
Worst		17.71	

9.1.4. 6 dB BANDWIDTH MID CH 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	13.06
Mid	2437	13.04
High	2462	13.18
Worst		13.18

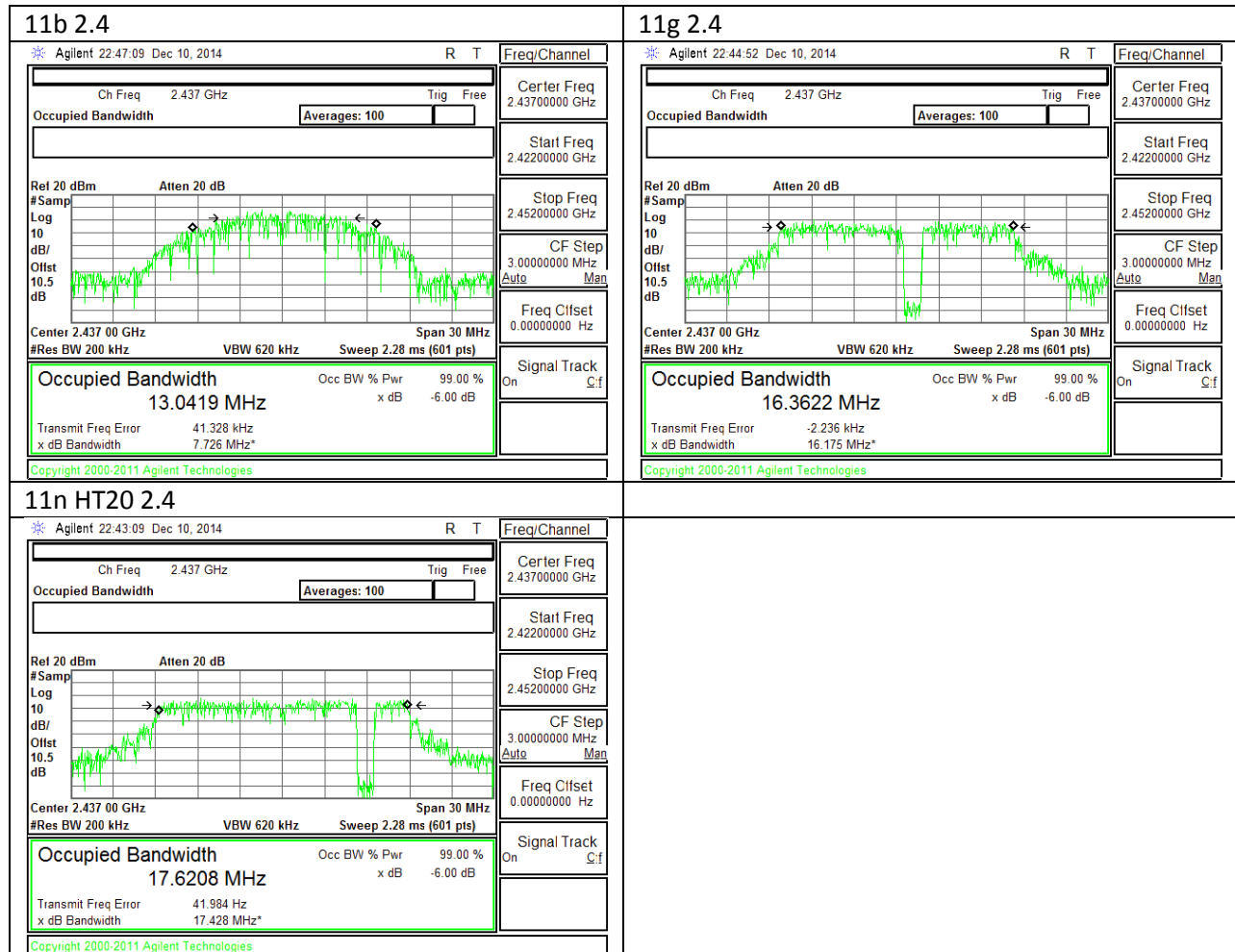
9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.41
Mid	2437	16.36
High	2462	16.39
Worst		16.41

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.62
Mid	2437	17.62
High	2462	17.59
Worst		17.62

9.2.4. 99% BANDWIDTH MID CH 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	-3.10	30.00	30	36	30.00
Mid	2437	-3.10	30.00	30	36	30.00
High	2462	-3.10	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	14.10	14.10	30.00	-15.90
Mid	2437	14.40	14.40	30.00	-15.60
High	2462	14.40	14.40	30.00	-15.60
Worst			14.40		

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	-3.10	30.00	30	36	30.00
Mid	2437	-3.10	30.00	30	36	30.00
High	2462	-3.10	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	10.80	10.80	30.00	-19.20
Mid	2437	10.90	10.90	30.00	-19.10
High	2462	10.70	10.70	30.00	-19.30
Worst			10.90		

9.3.3. 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	-3.10	30.00	30	36	30.00
Mid	2437	-3.10	30.00	30	36	30.00
High	2462	-3.10	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	10.00	10.00	30.00	-20.00
Mid	2437	10.20	10.20	30.00	-19.80
High	2462	10.00	10.00	30.00	-20.00
Worst			10.20		

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	-13.32	8.0	-21.3
Mid	2437	-12.29	8.0	-20.3
High	2462	-13.29	8.0	-21.3

9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

PSD Results

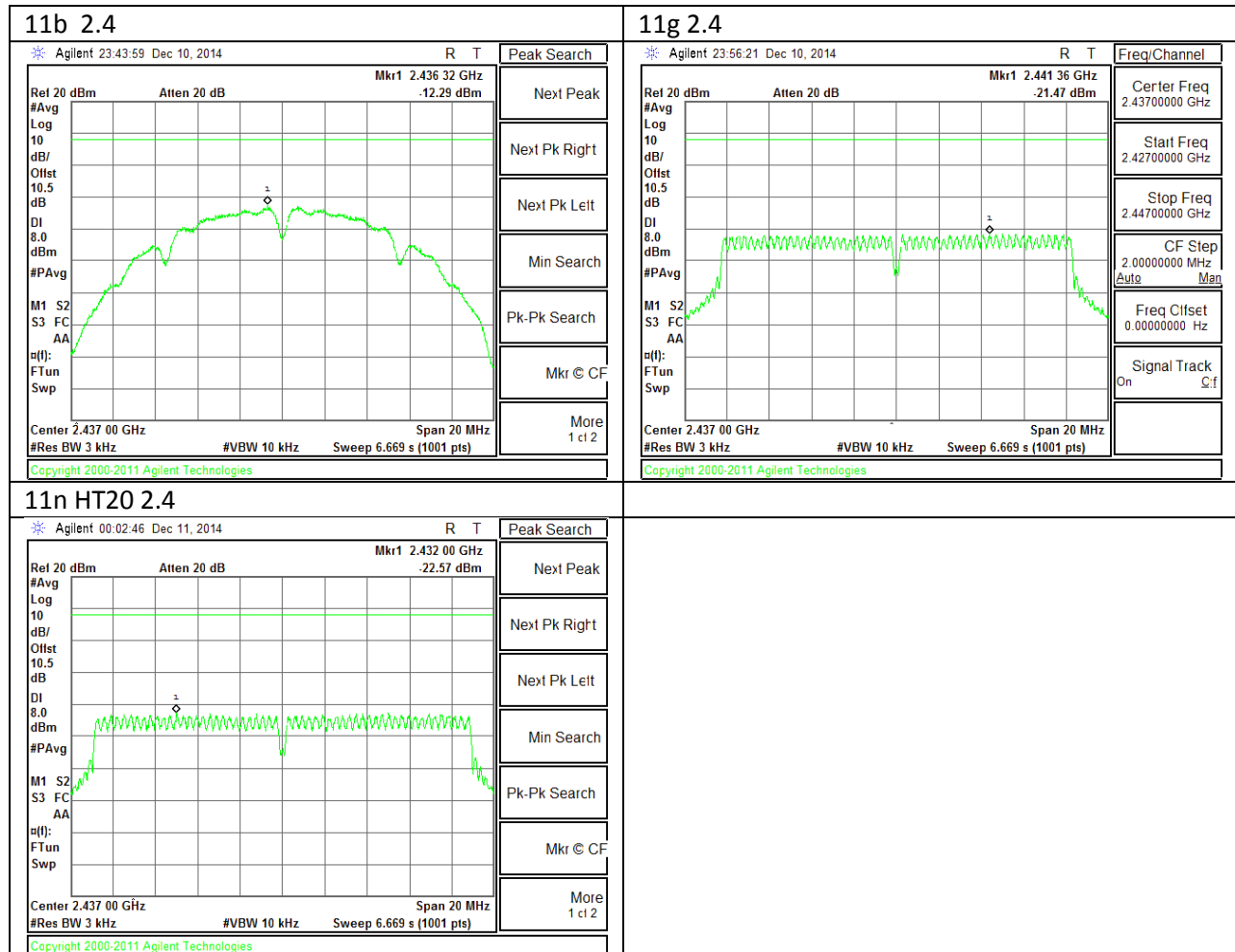
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-21.77	8.0	-29.8
Mid	2437	-21.47	8.0	-29.5
High	2462	-21.50	8.0	-29.5

9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-23.49	8.0	-31.5
Mid	2437	-22.57	8.0	-30.6
High	2462	-22.34	8.0	-30.3

9.4.4. PSD Chain 0 MID CH 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.

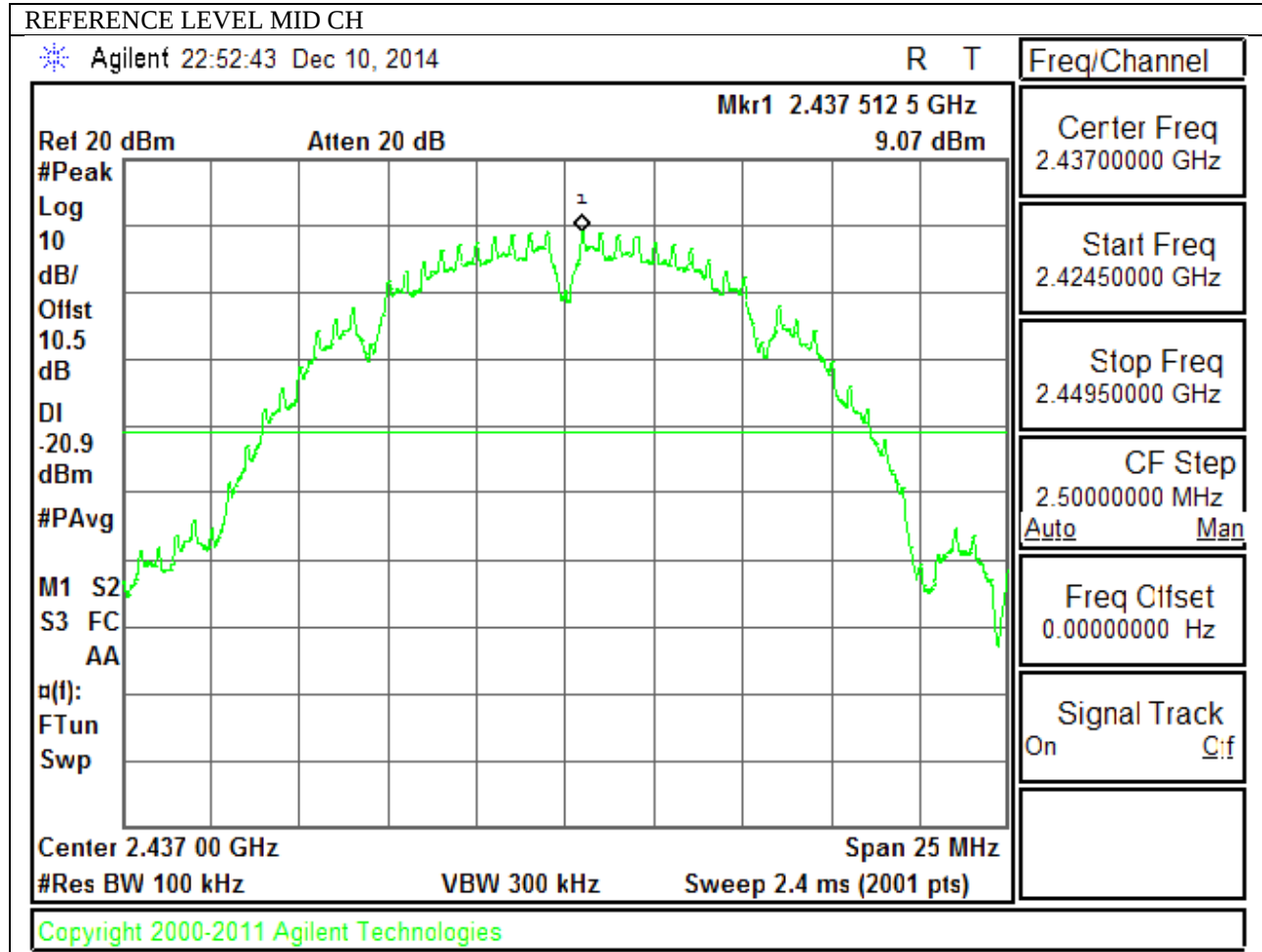
TEST PROCEDURE

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.

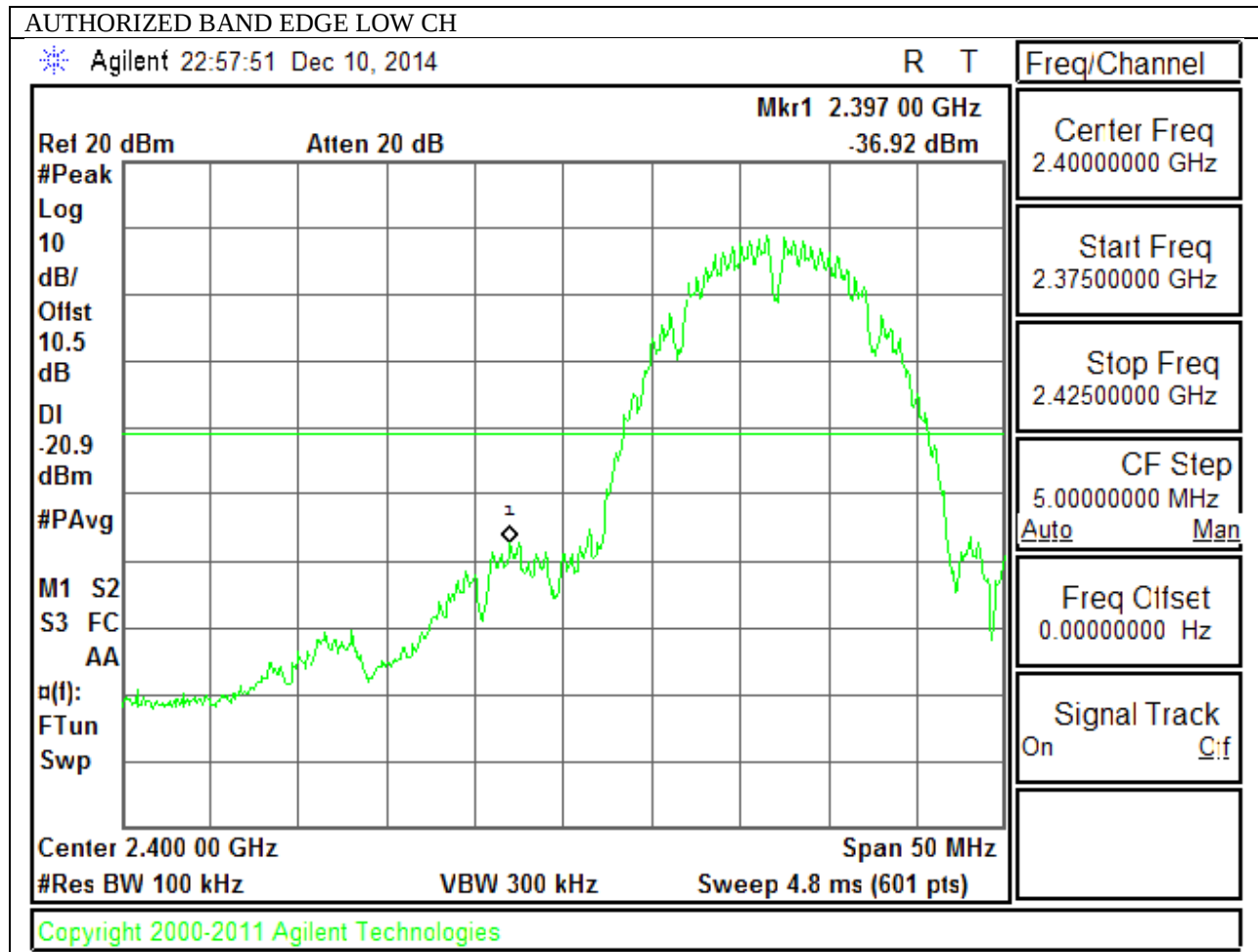
RESULTS

9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

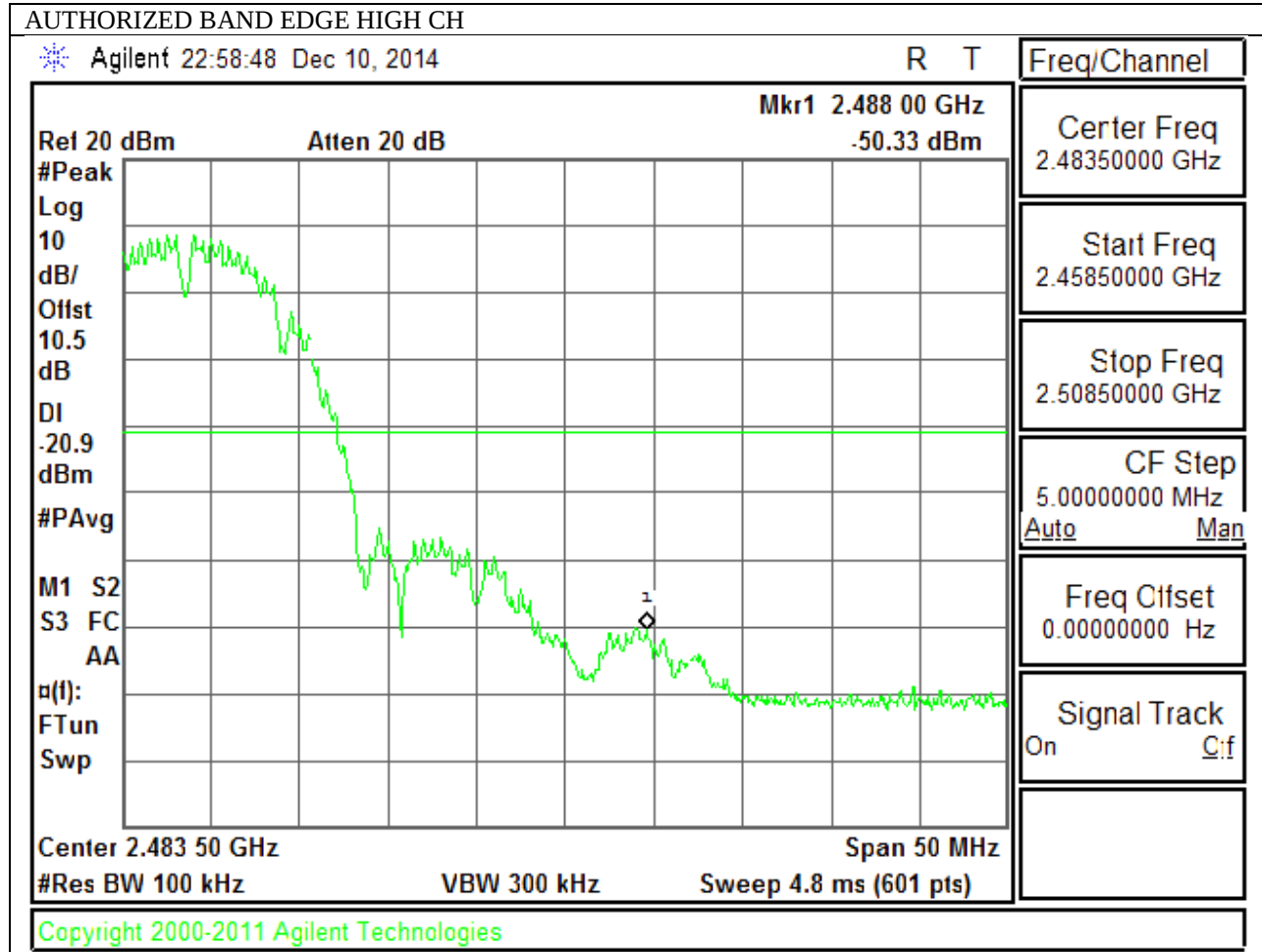
IN-BAND REFERENCE LEVEL



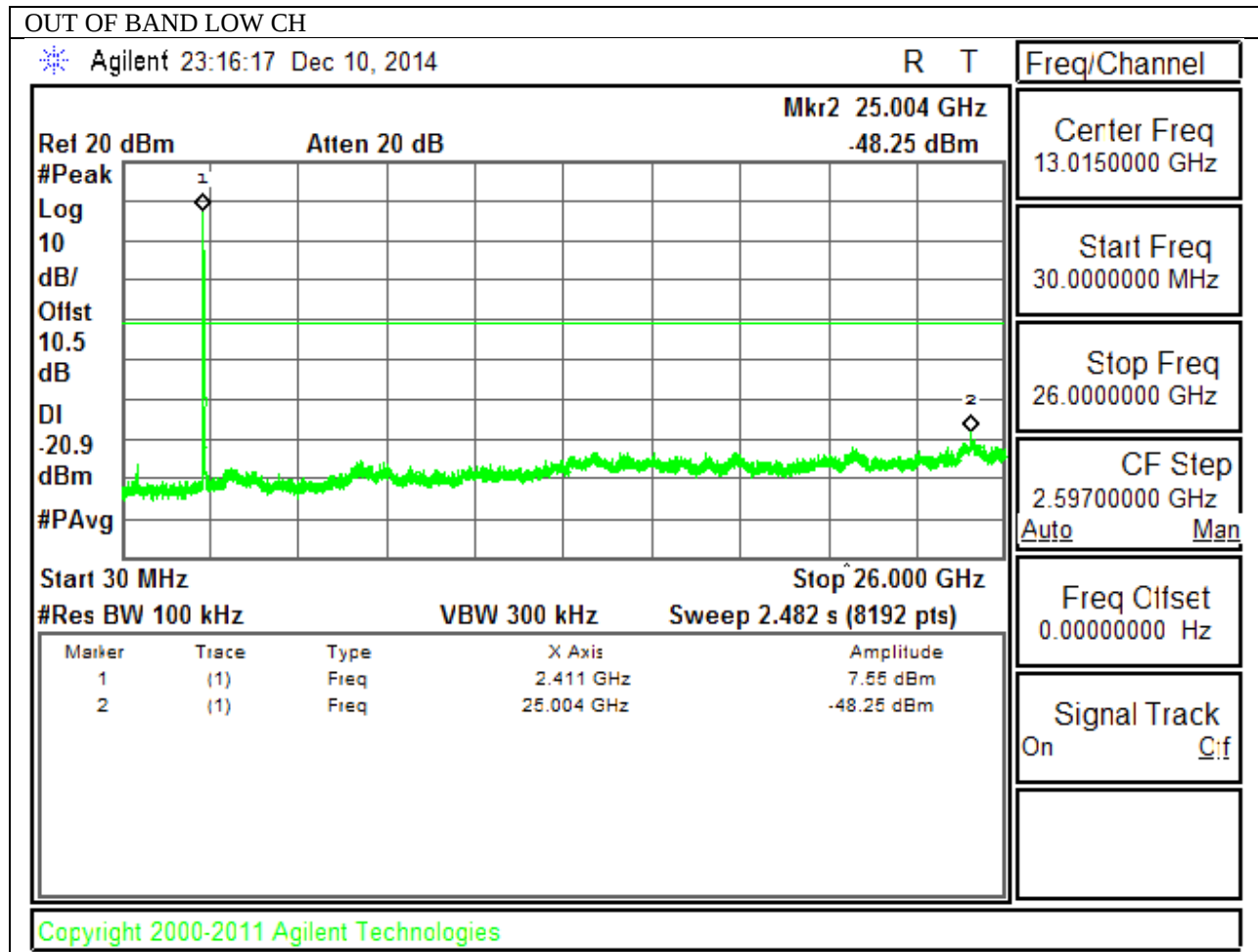
LOW CHANNEL BANDEDGE

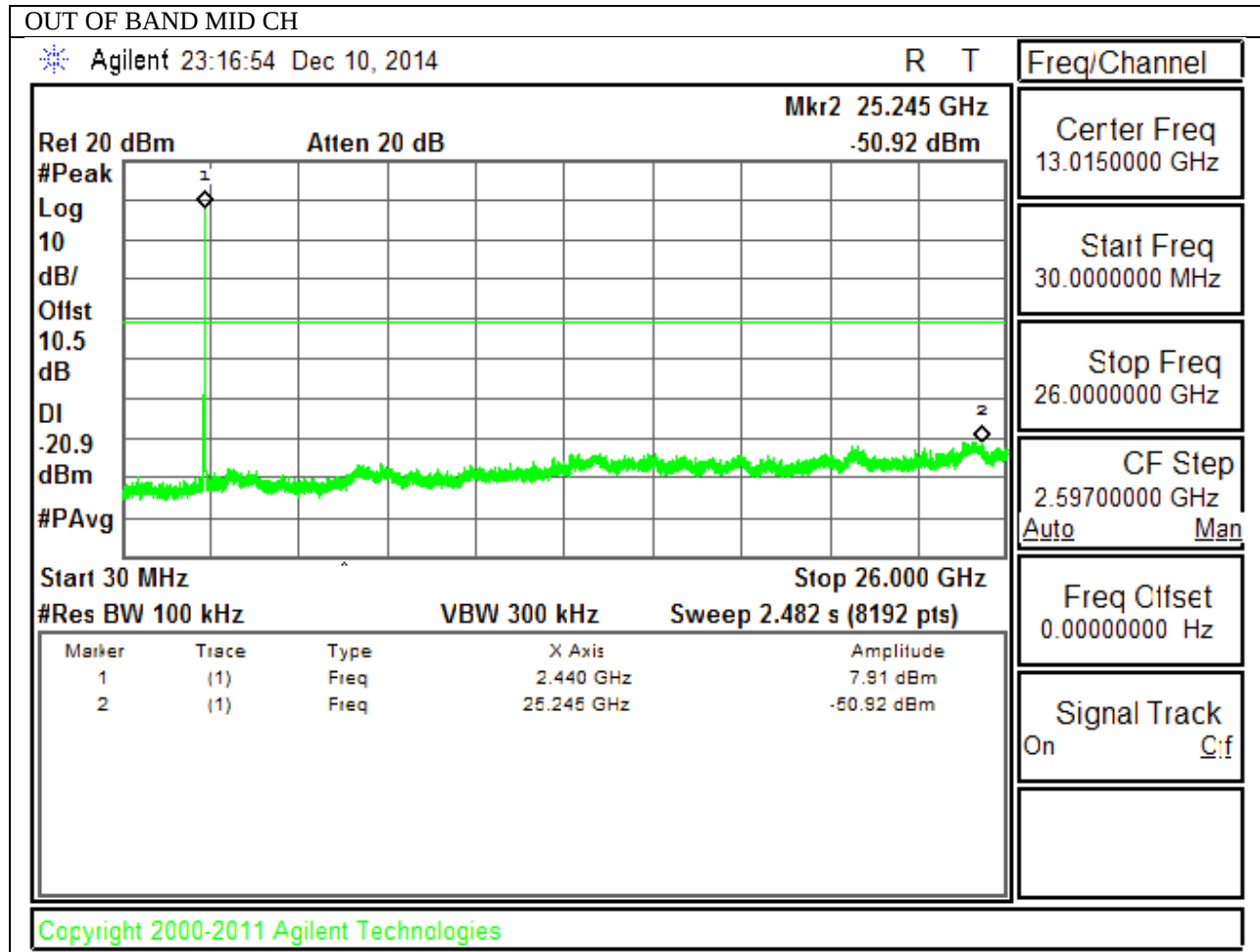


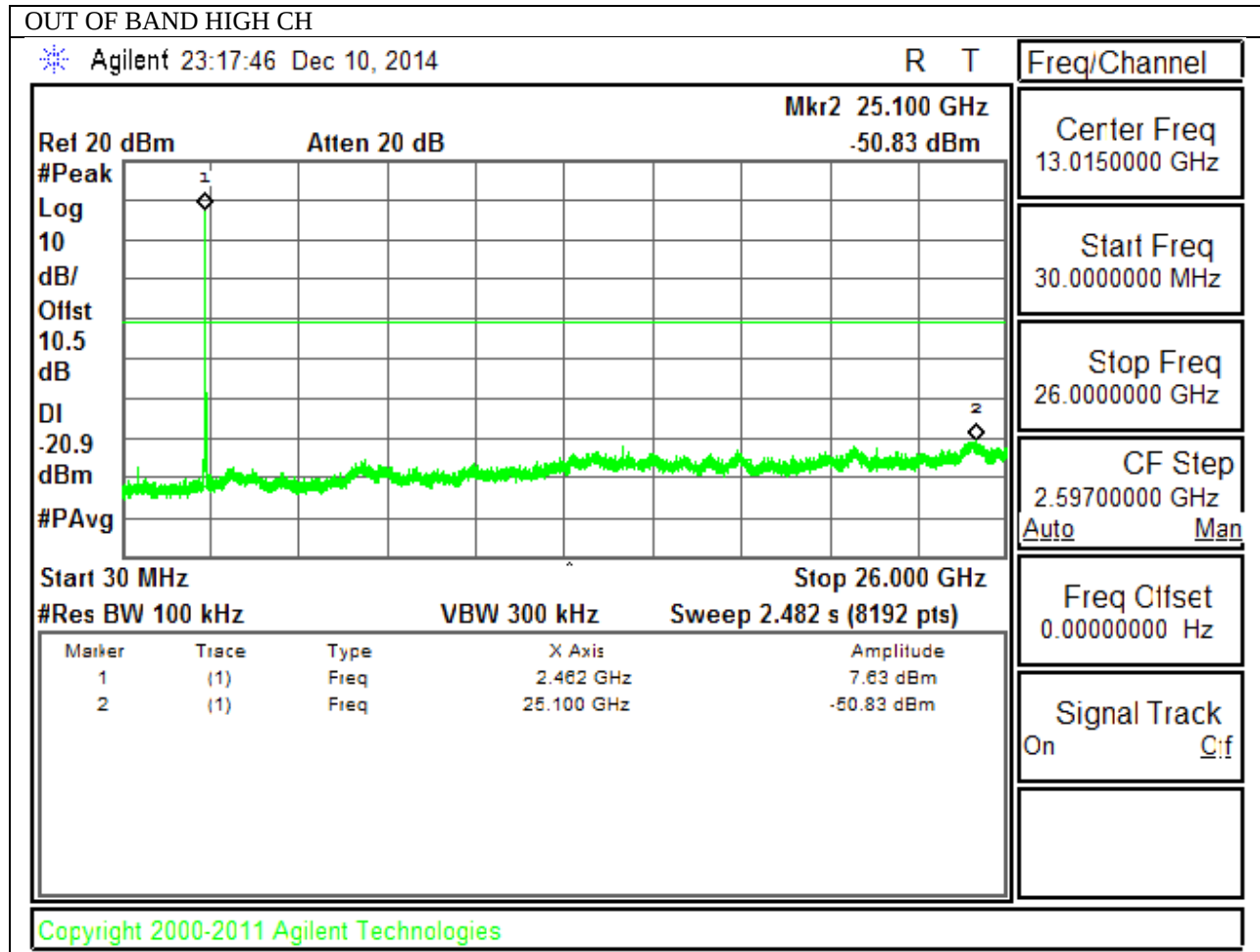
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

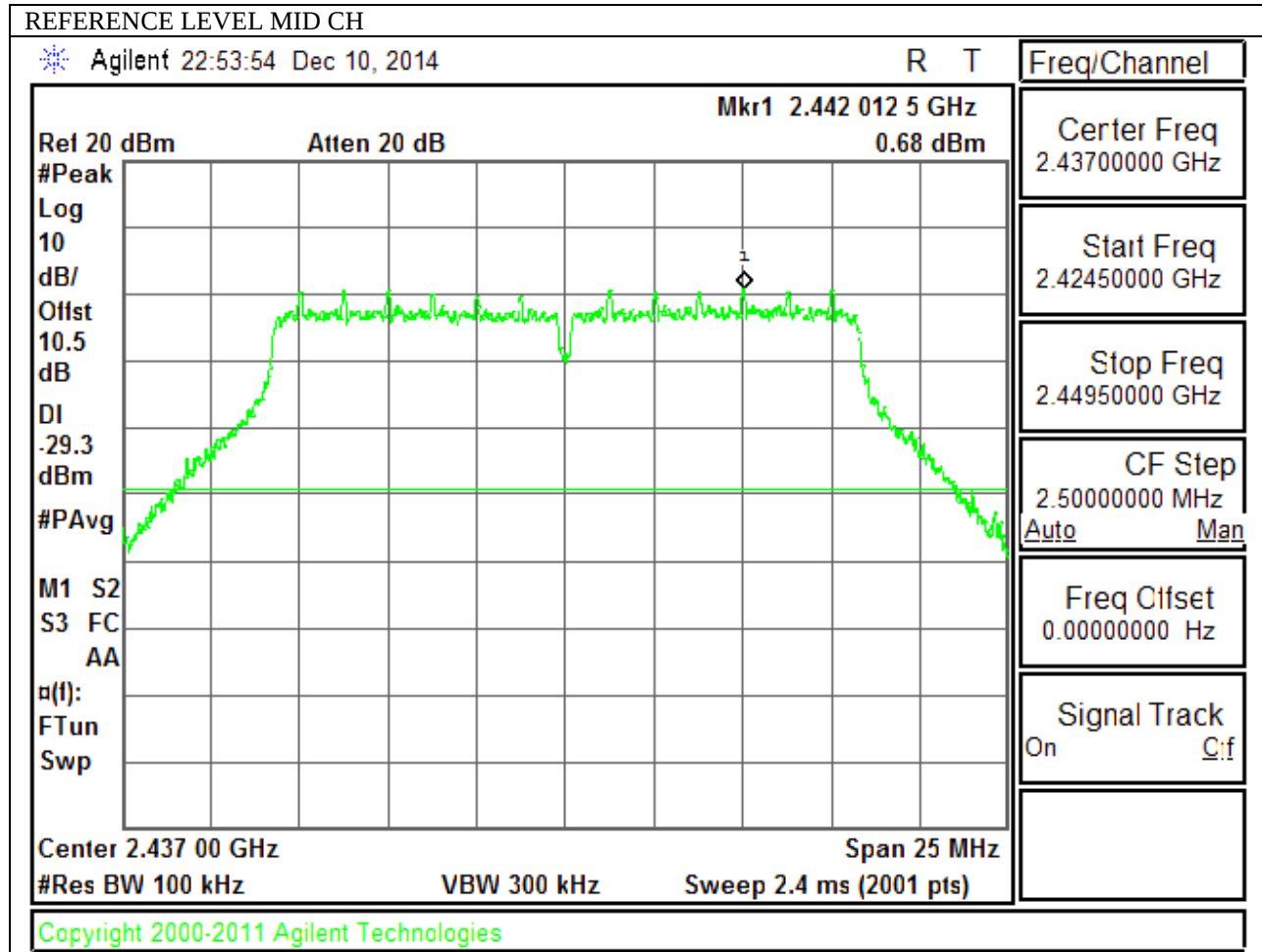




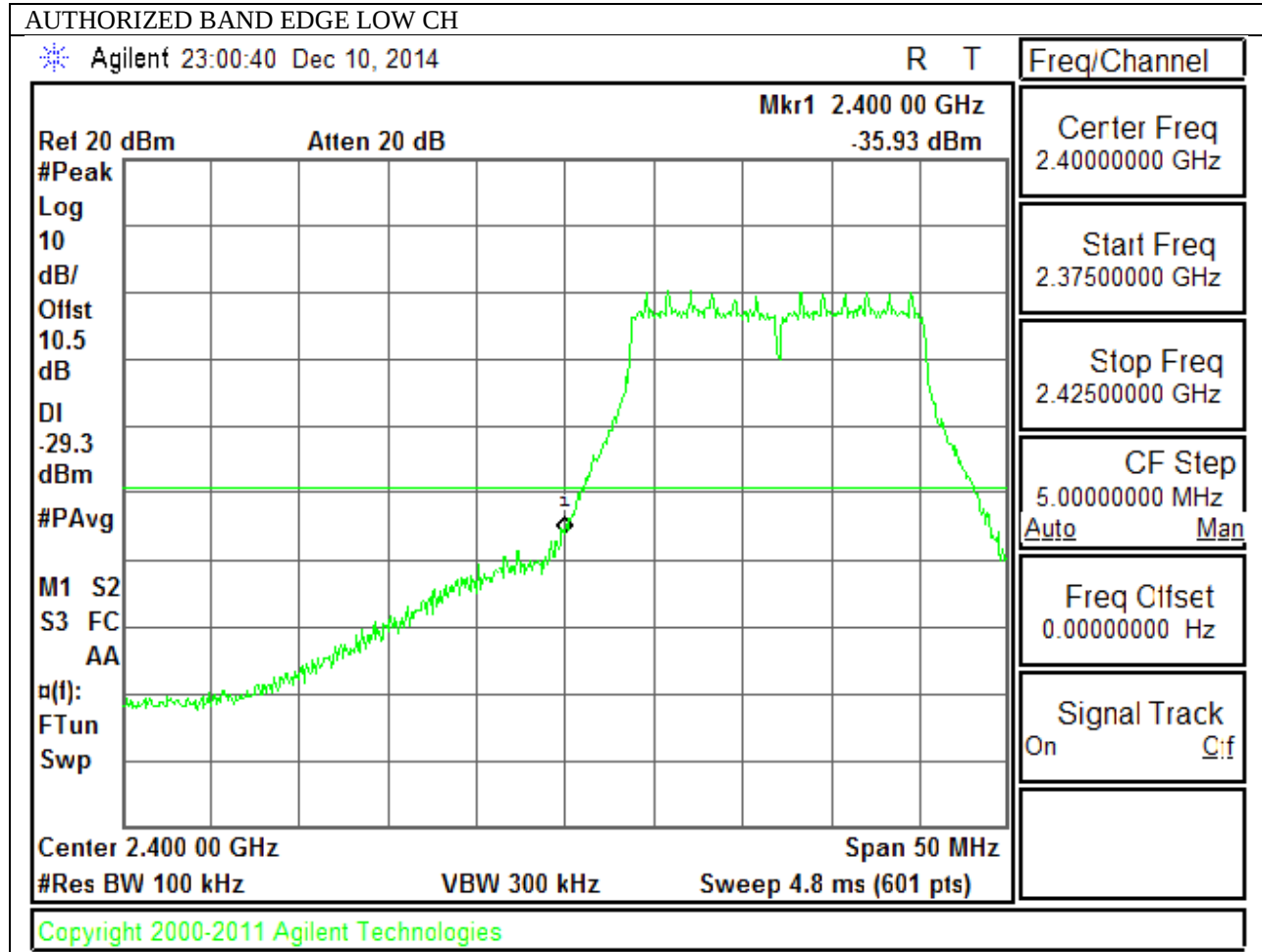


9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

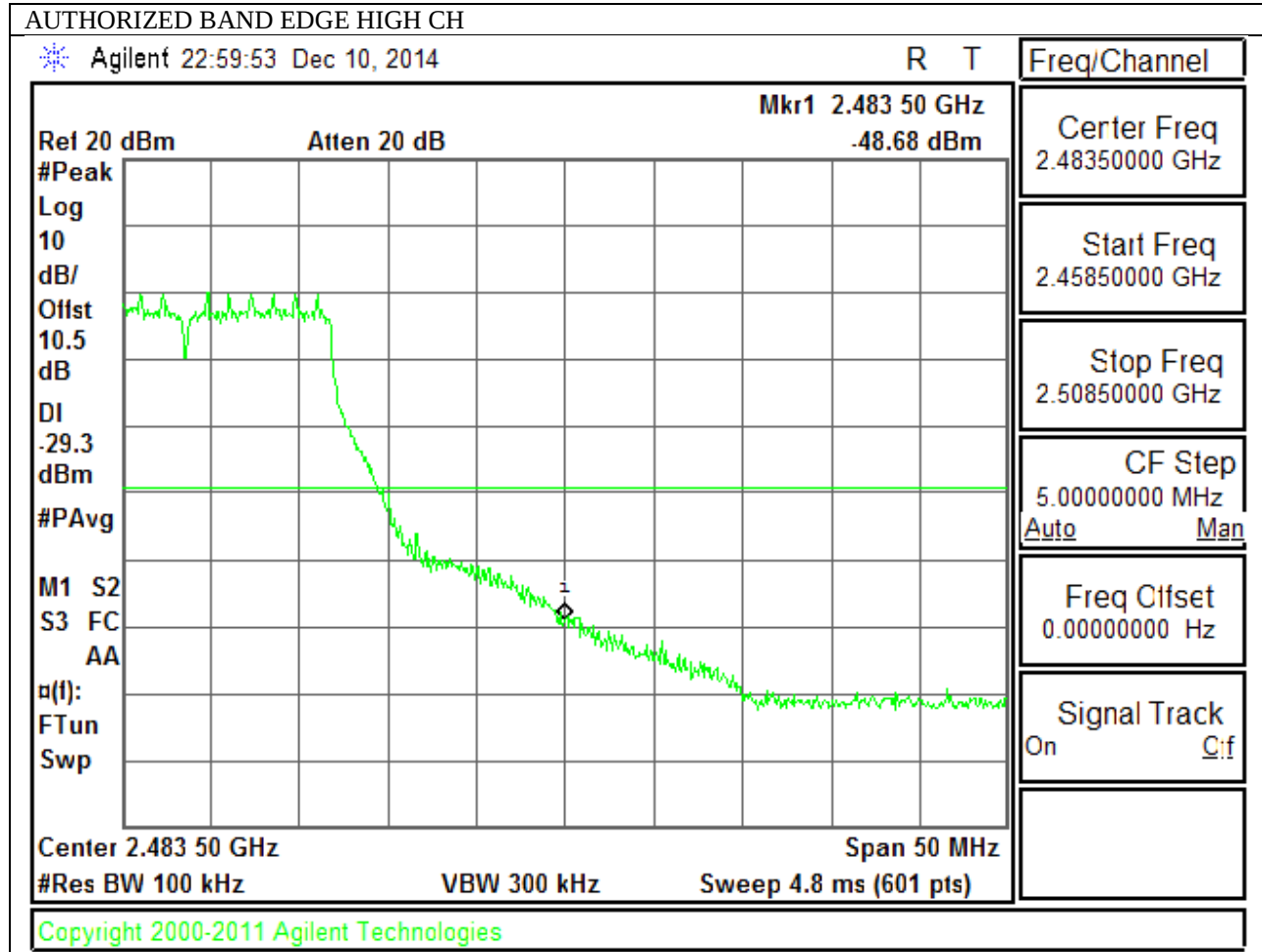
IN-BAND REFERENCE LEVEL



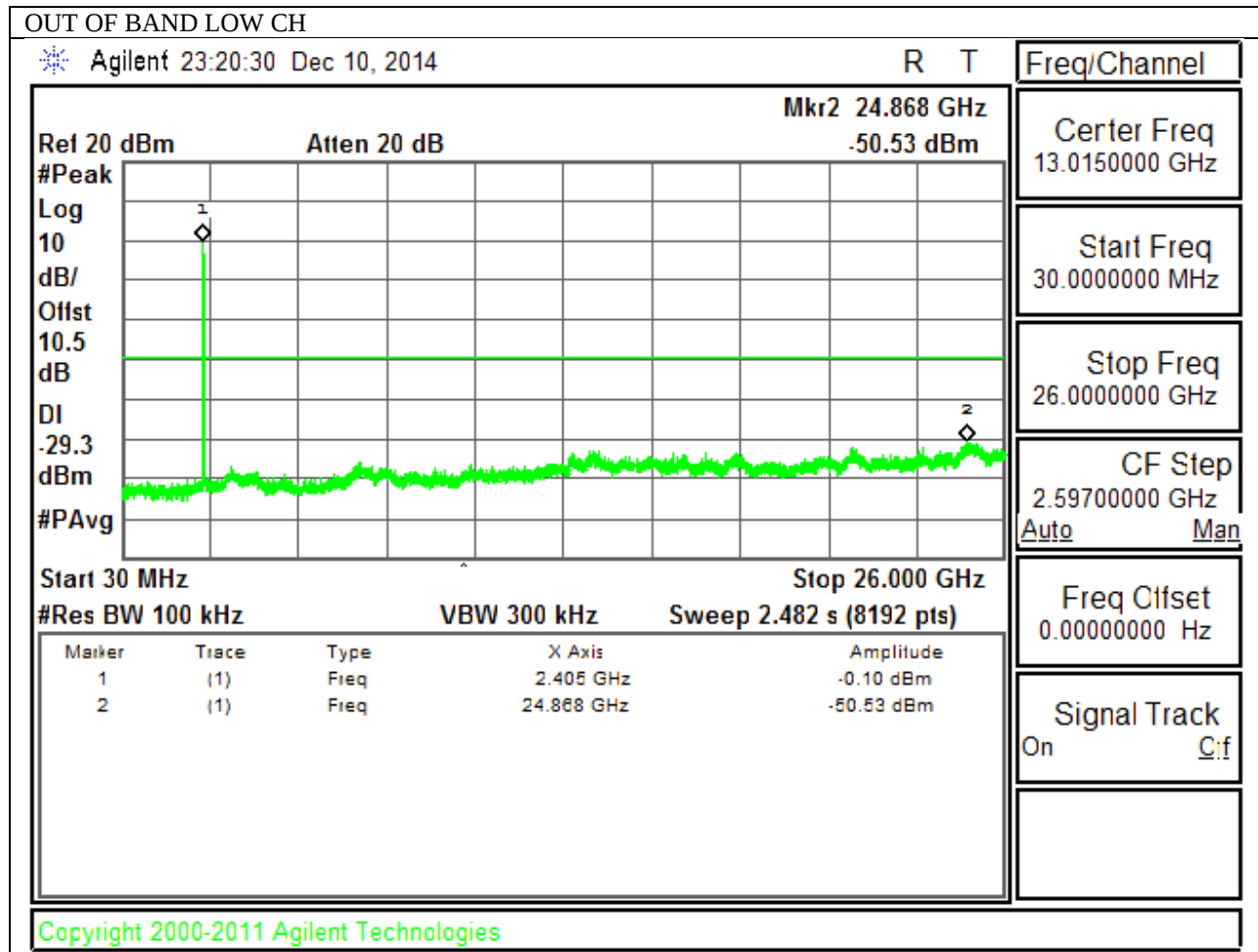
LOW CHANNEL BANDEDGE

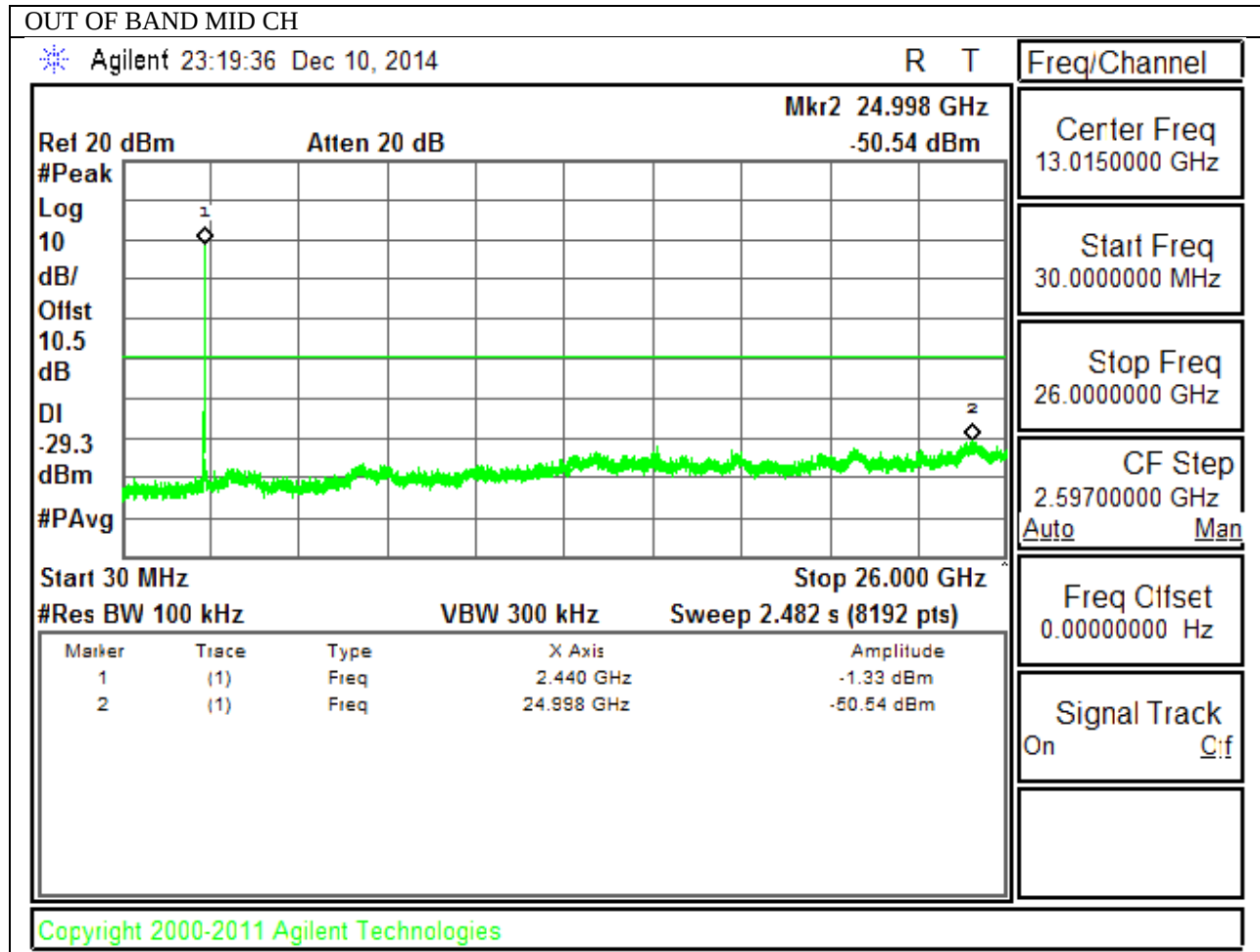


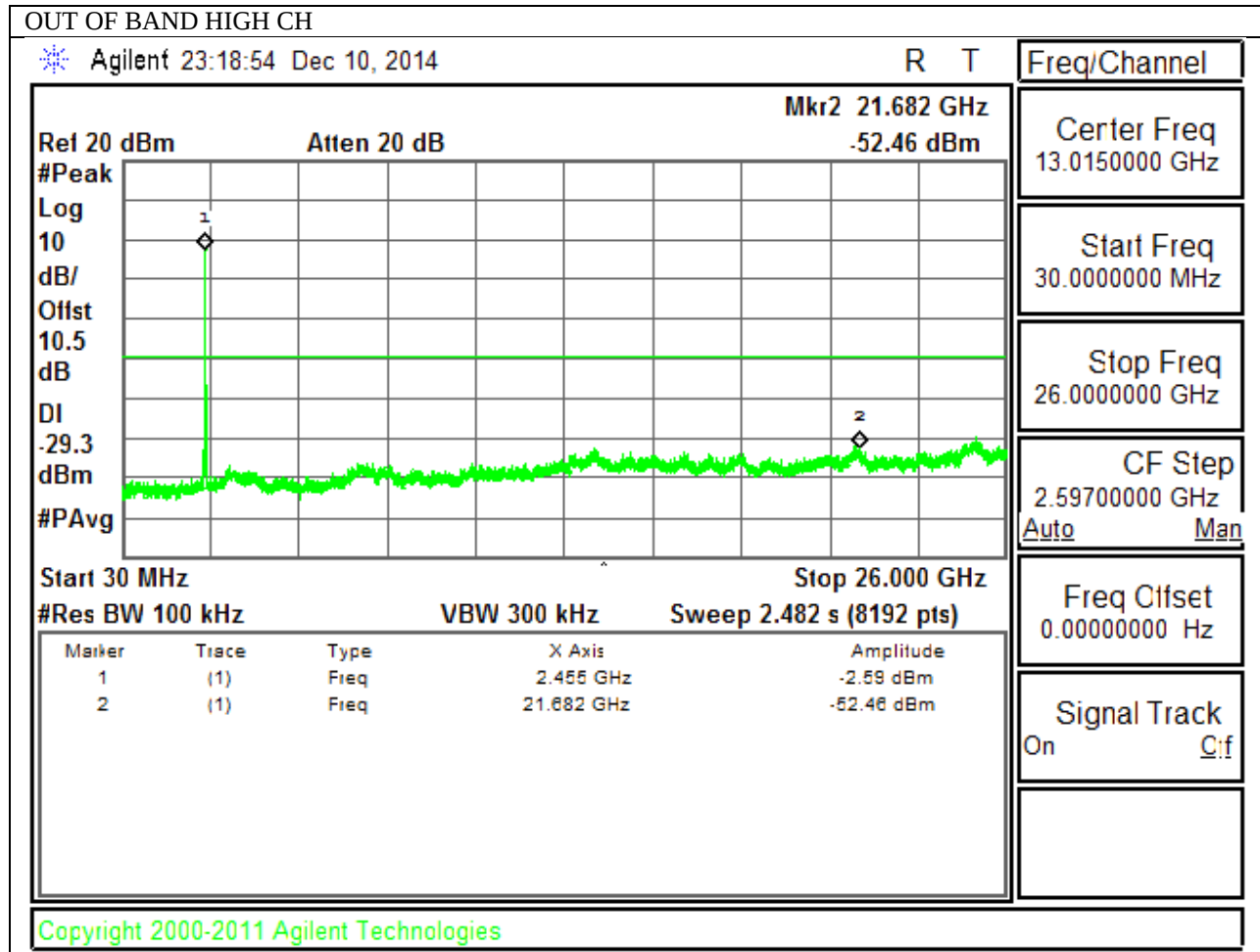
HIGH CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS

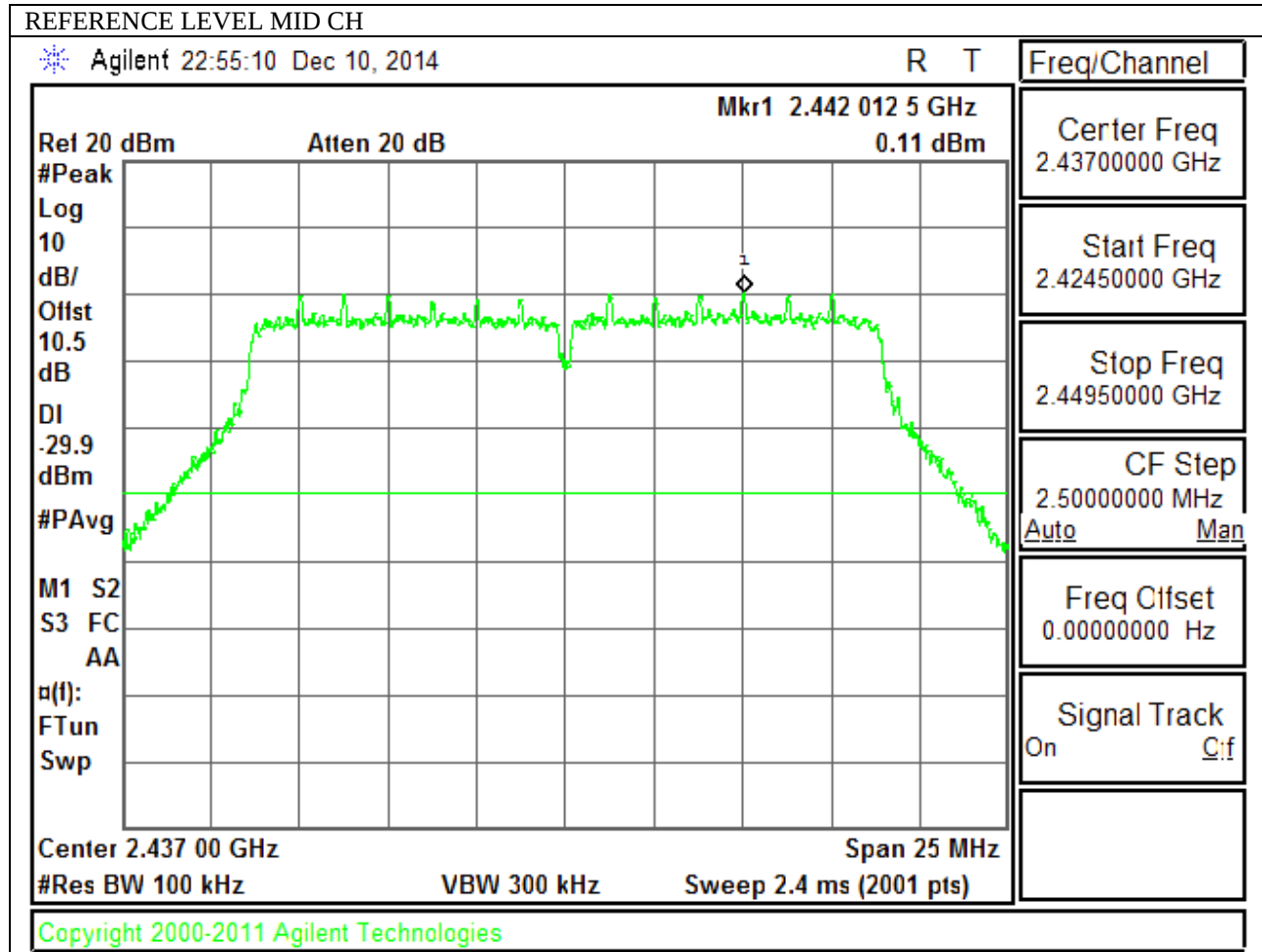




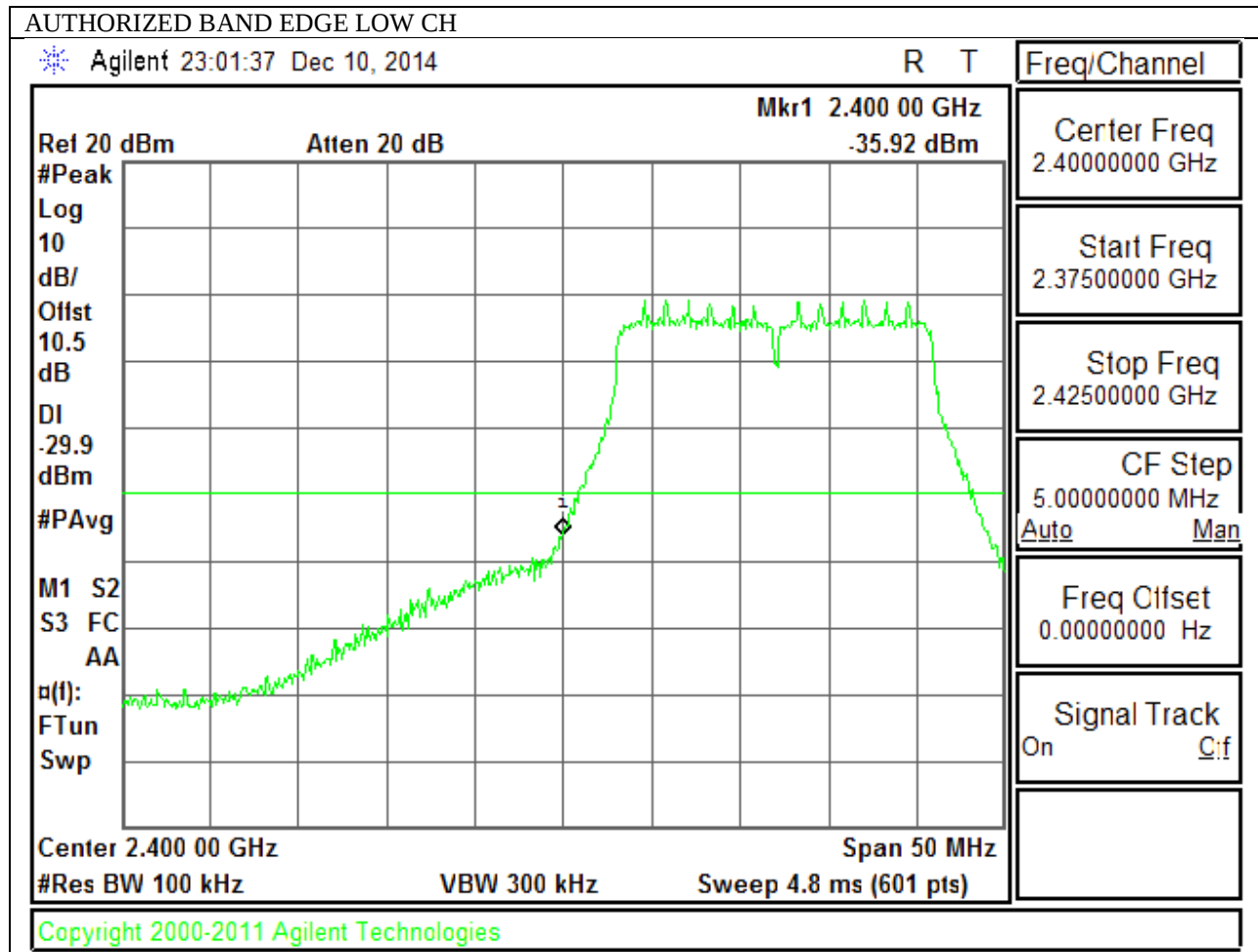


9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

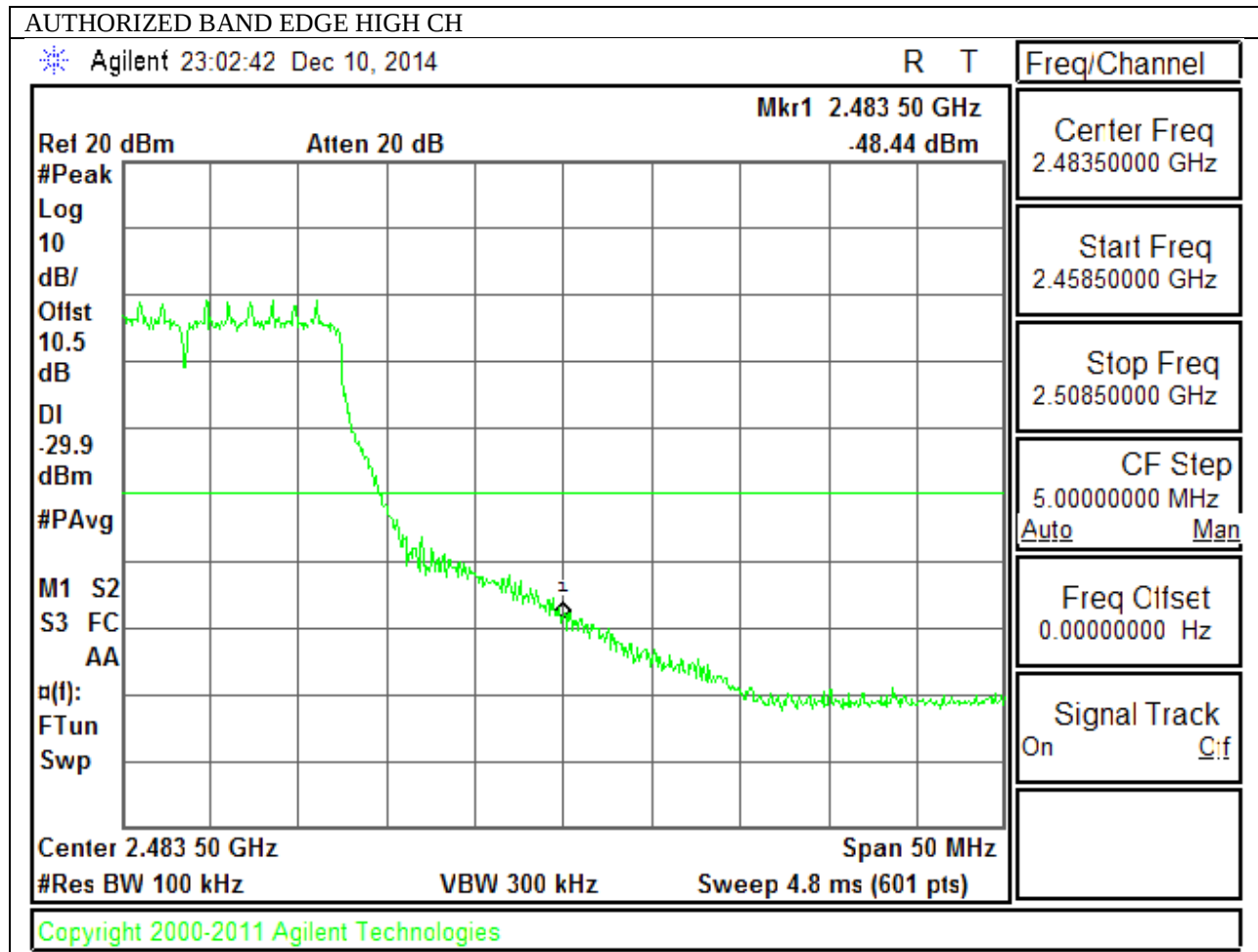
IN-BAND REFERENCE LEVEL



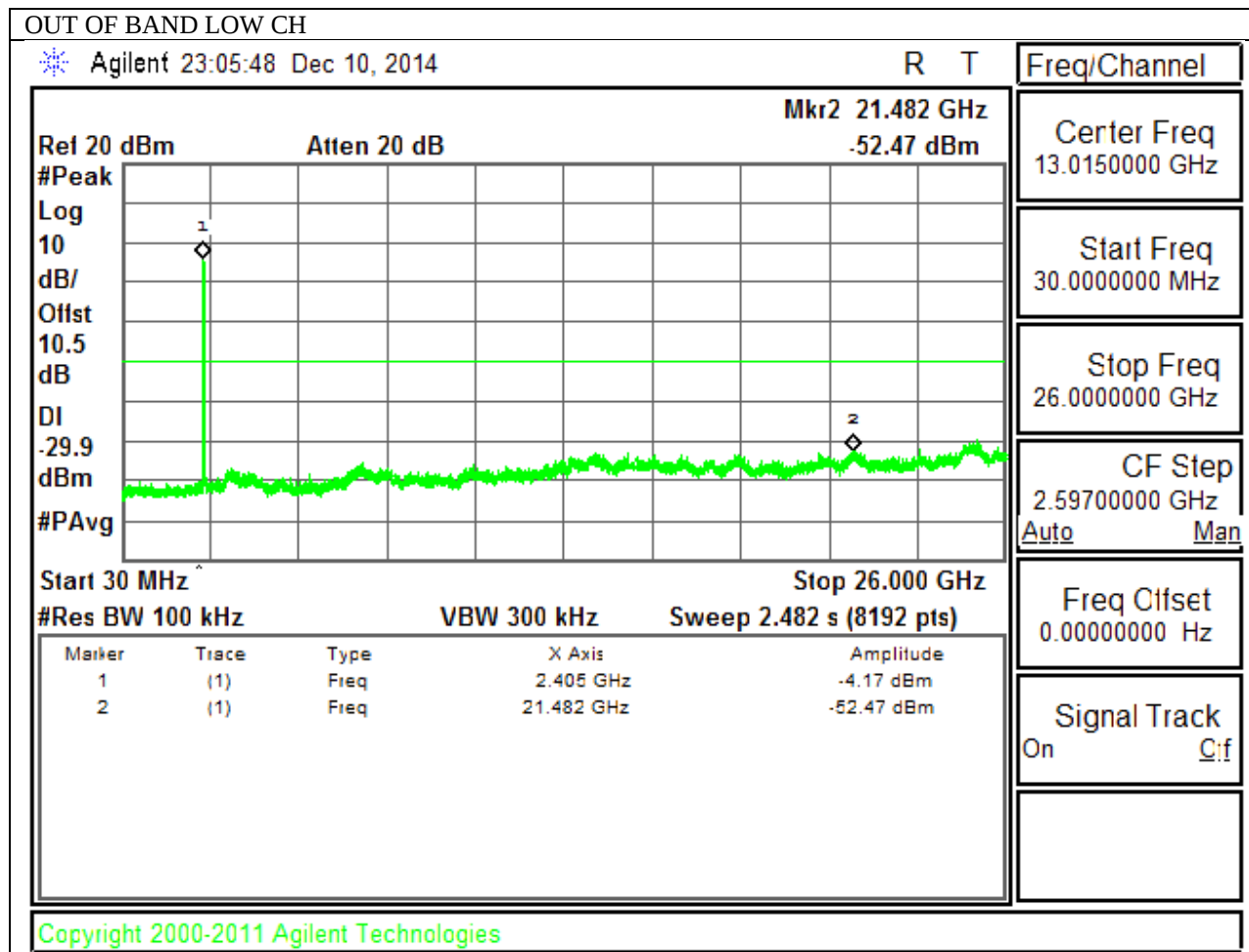
LOW CHANNEL BANDEDGE

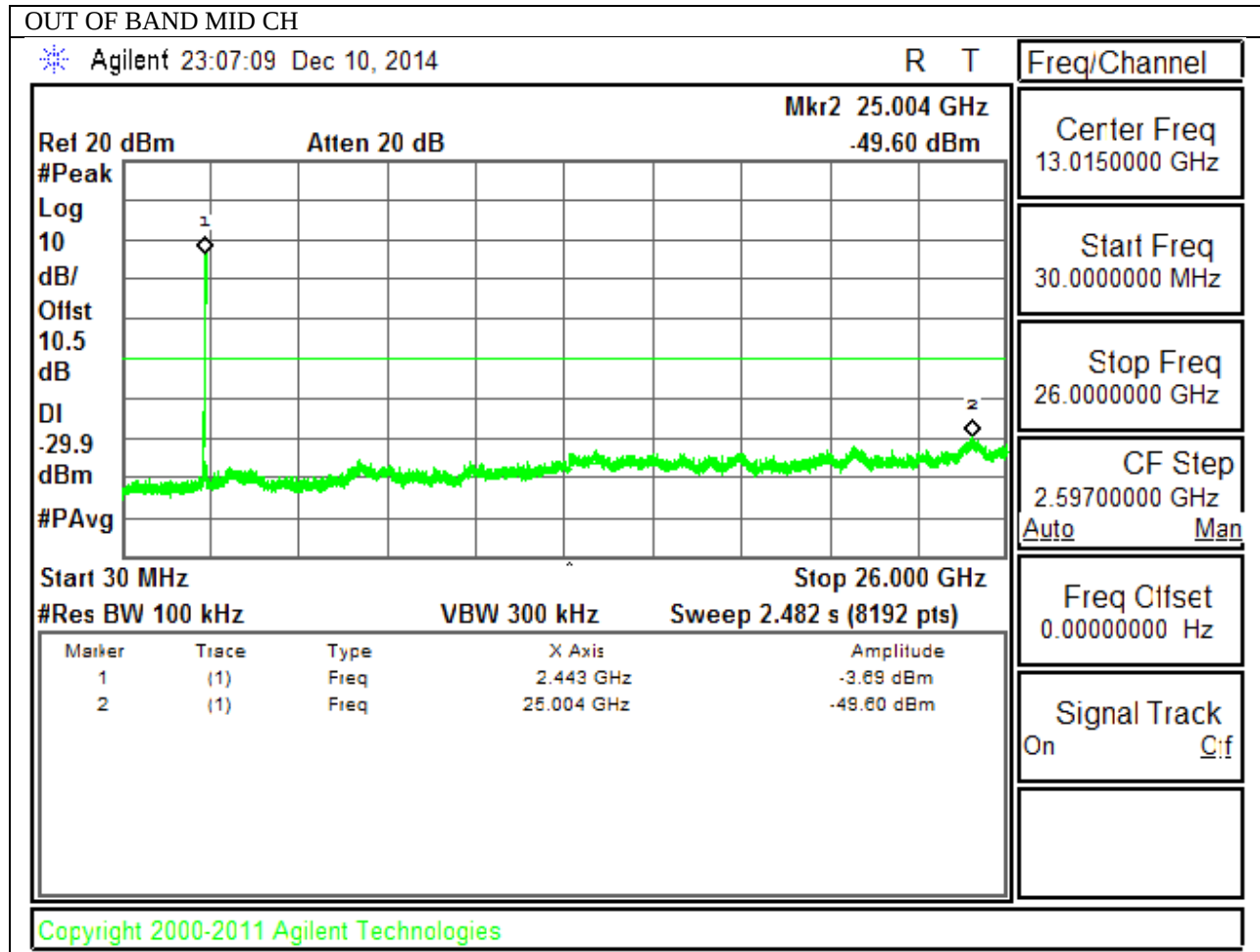


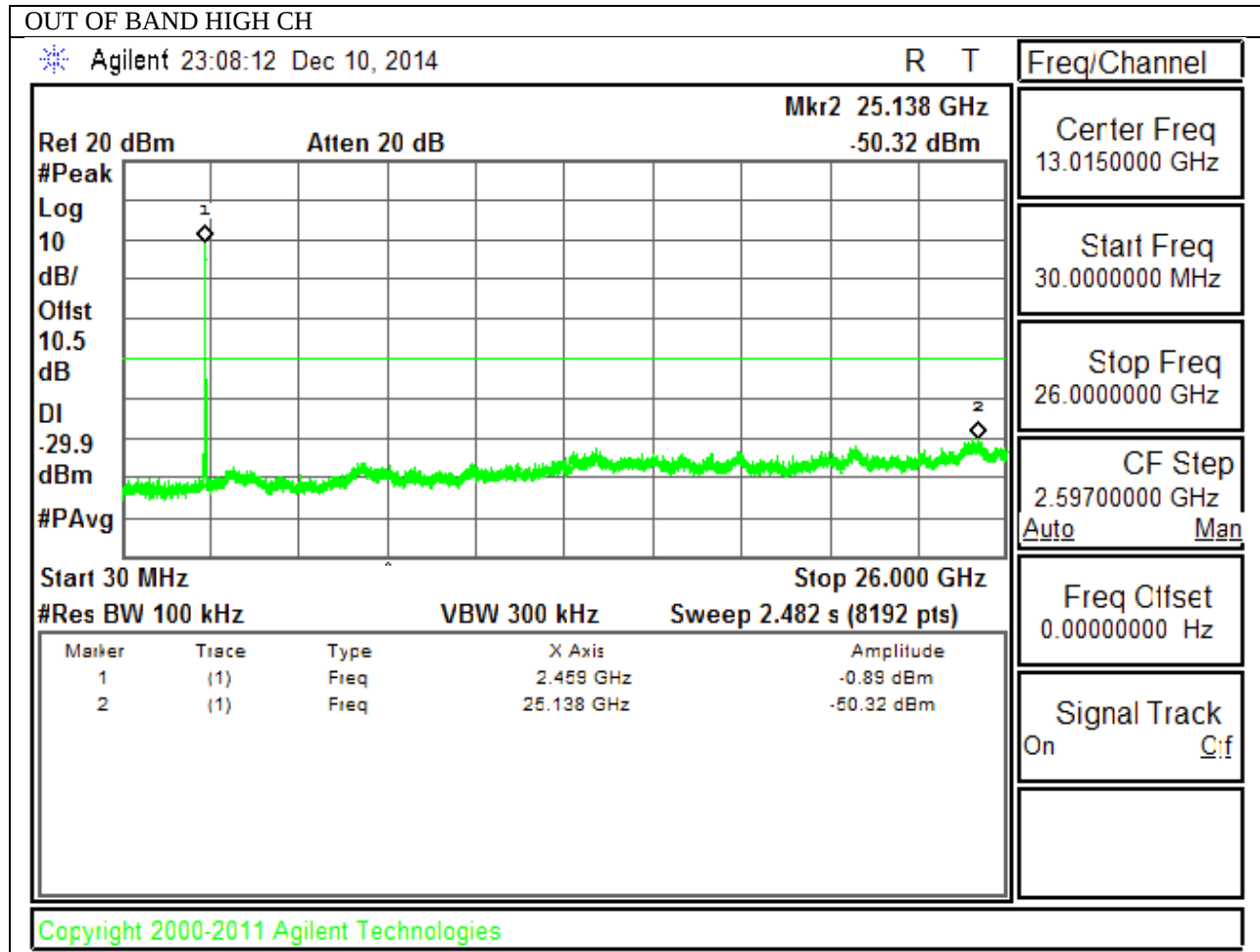
HIGH CHANNEL BANDEDGE



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 (μ V/m) at 3 m	Field Strength Limit (dB μ V/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 = 0.3dB; N mode = 0.32dB.

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.

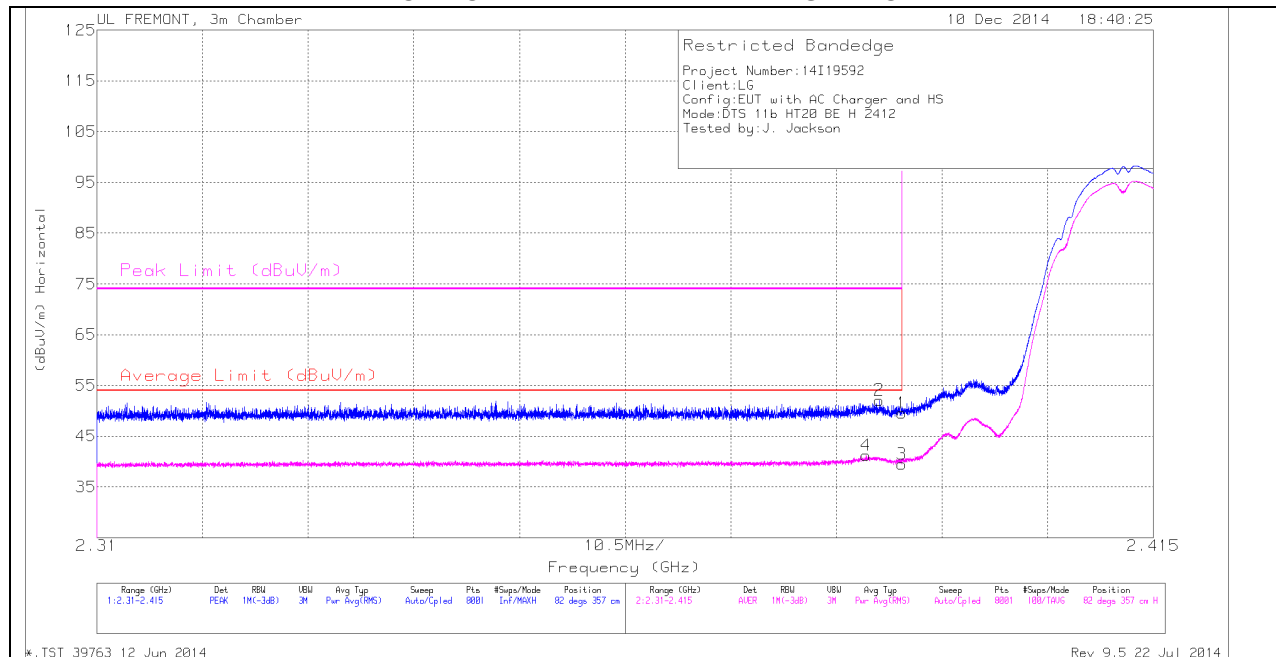
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

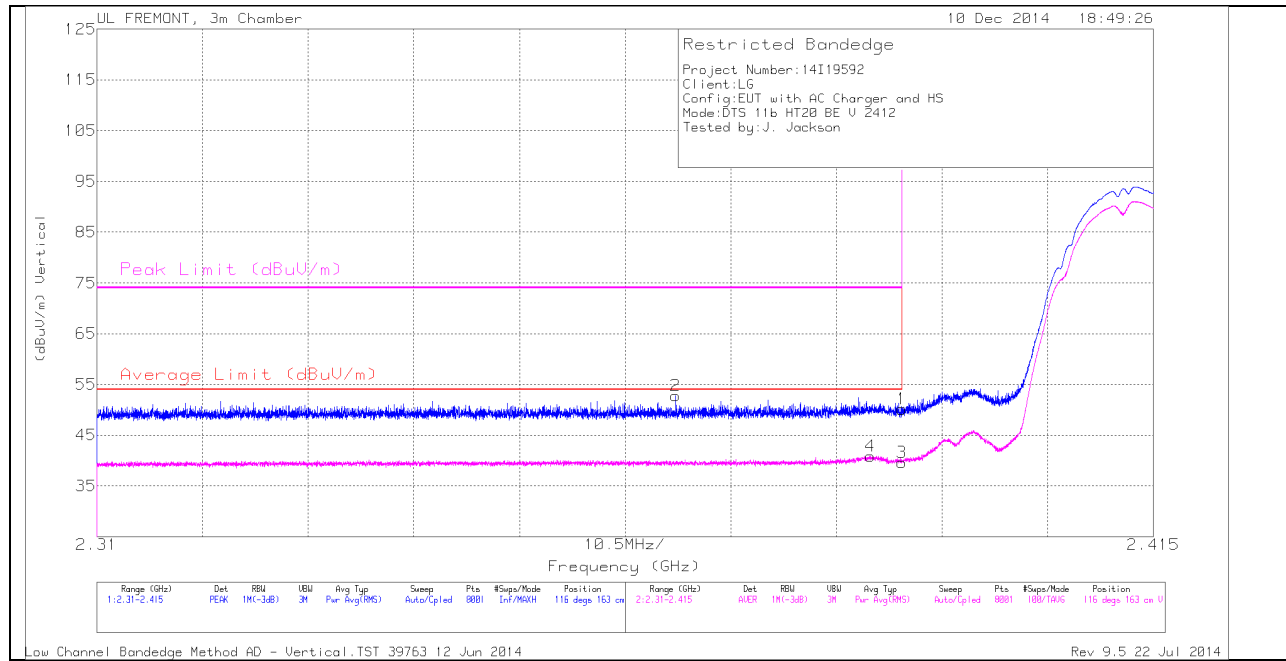
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/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
4	2.386	32.2	RMS	32.1	-23.1	41.2	54	-12.8	-	-	82	357	H
2	2.388	43.09	PK	32.1	-23.1	52.09	-	-	74	-21.91	82	357	H
1	2.39	40.51	PK	32.1	-23.1	49.51	-	-	74	-24.49	82	357	H
3	2.39	30.53	RMS	32.1	-23.1	39.53	54	-14.47	-	-	82	357	H

VERTICAL PEAK AND AVERAGE PLOT

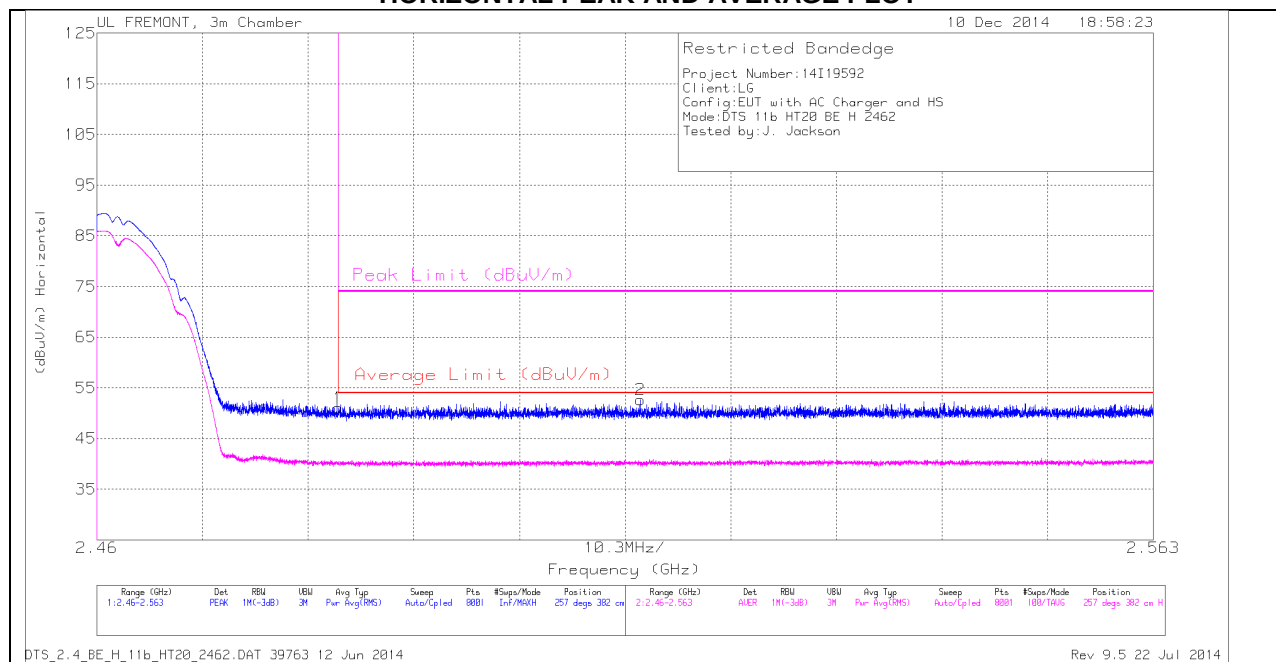


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.368	43.92	PK	32	-23.1	0	52.82	-	-	74	-21.18	116	163	V
4	2.387	31.87	RMS	32.1	-23.1	.03	40.9	54	-13.1	-	-	116	163	V
1	2.39	41.11	PK	32.1	-23.1	0	50.11	-	-	74	-23.89	116	163	V
3	2.39	30.54	RMS	32.1	-23.1	.03	39.57	54	-14.43	-	-	116	163	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

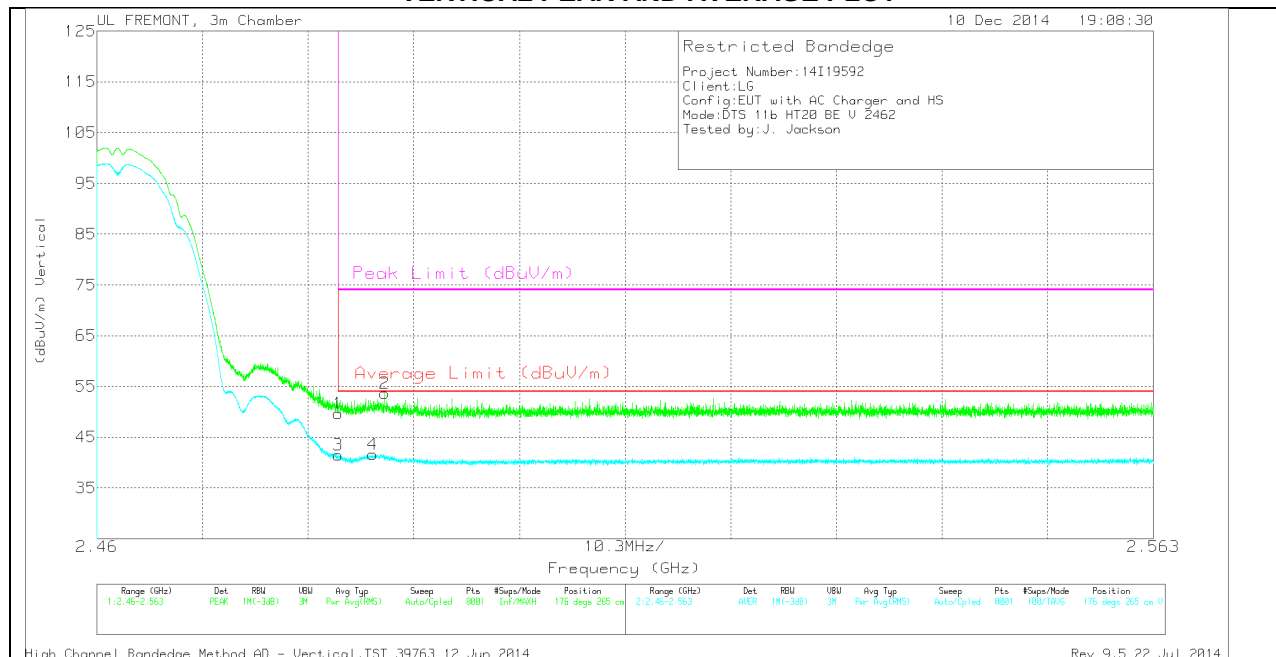
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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	41.57	PK	32.3	-22.8	0	51.07	-	-	74	-22.93	257	382	H
3	2.484	30.65	RMS	32.3	-22.8	.03	40.18	54	-13.82	-	-	257	382	H
2	2.513	43.16	PK	32.3	-22.8	0	52.66	-	-	74	-21.34	257	382	H
4	2.552	31.34	RMS	32.4	-22.7	.03	41.07	54	-12.93	-	-	257	382	H

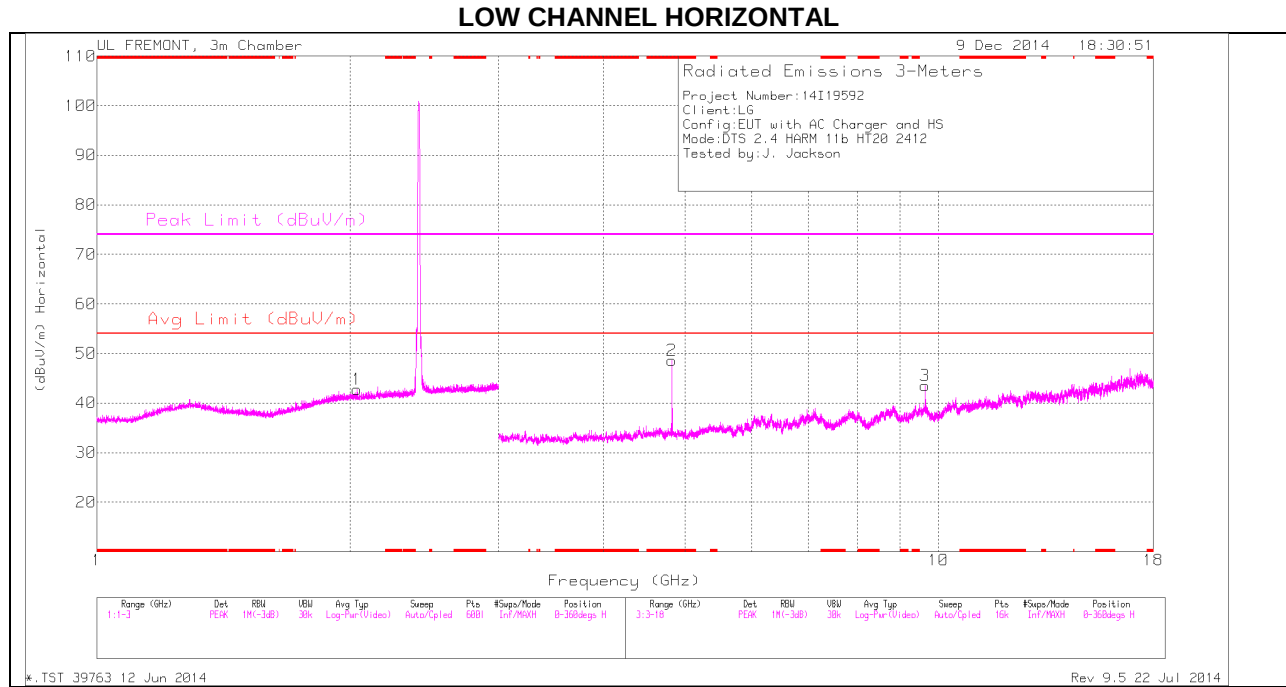
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

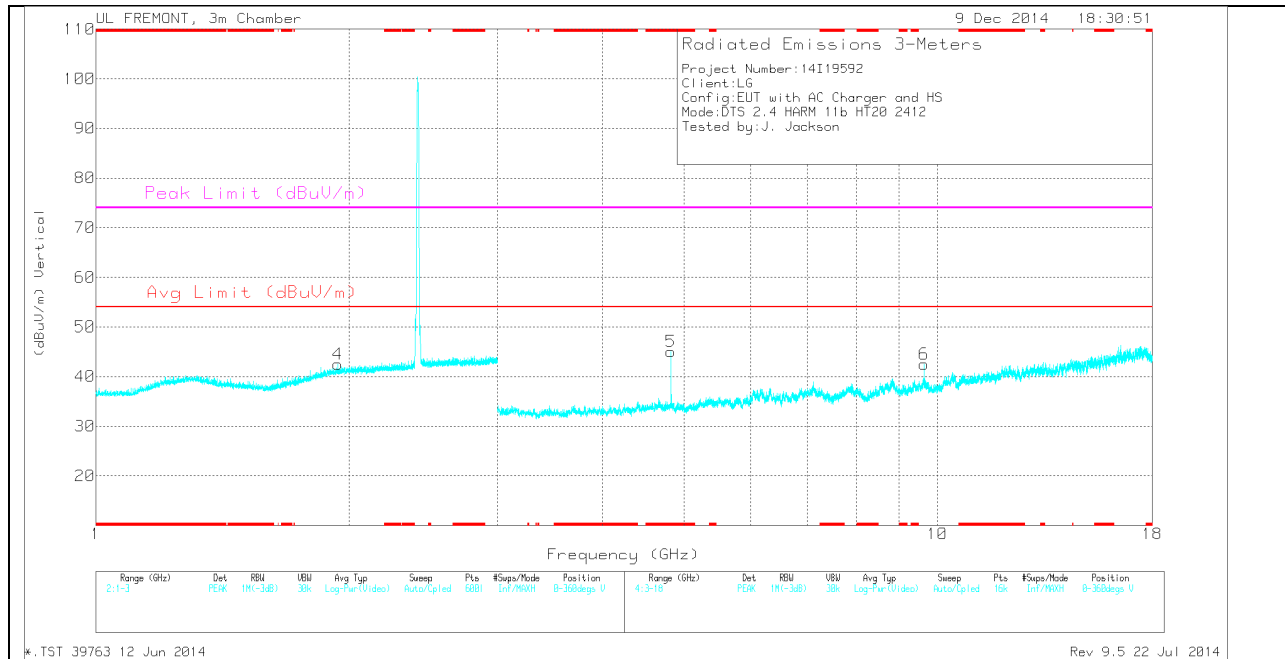
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	40.15	PK	32.3	-22.8	0	49.65	-	-	74	-24.35	176	265	V
3	2.484	31.99	RMS	32.3	-22.8	.03	41.52	54	-12.48	-	-	176	265	V
4	2.487	32.12	RMS	32.3	-22.8	.03	41.65	54	-12.35	-	-	176	265	V
2	2.488	44.15	PK	32.3	-22.8	0	53.65	-	-	74	-20.35	176	265	V

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

TRACE MARKERS

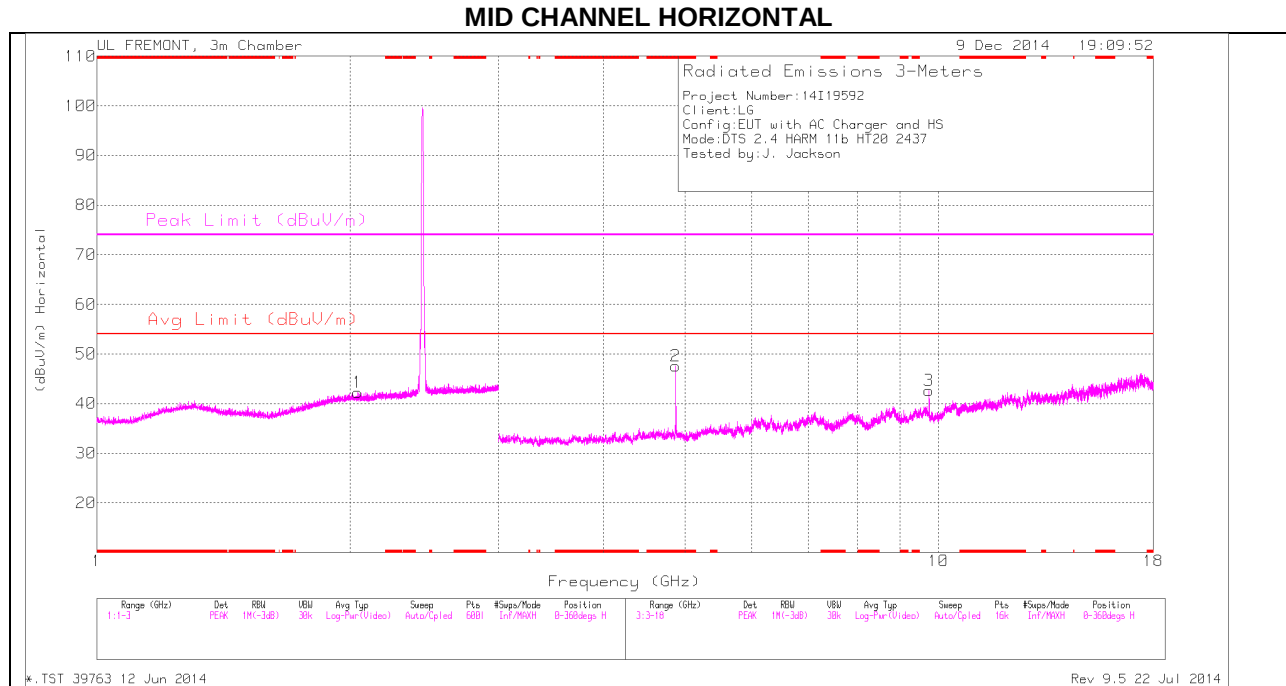
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.824	44.84	PK	34	-30.2	0	48.64	-	-	74	-25.36	0-360	200	H
5	* 4.824	41.25	PK	34	-30.2	0	45.05	-	-	74	-28.95	0-360	200	V
4	1.938	34.33	PK	31.4	-23.2	0	42.53	-	-	-	-	0-360	100	V
1	2.036	34.23	PK	31.6	-23.1	0	42.73	-	-	-	-	0-360	100	H
3	9.647	32.29	PK	36.8	-25.6	0	43.49	-	-	-	-	0-360	200	H
6	9.647	31.35	PK	36.8	-25.6	0	42.55	-	-	-	-	0-360	200	V

PK - Peak detector

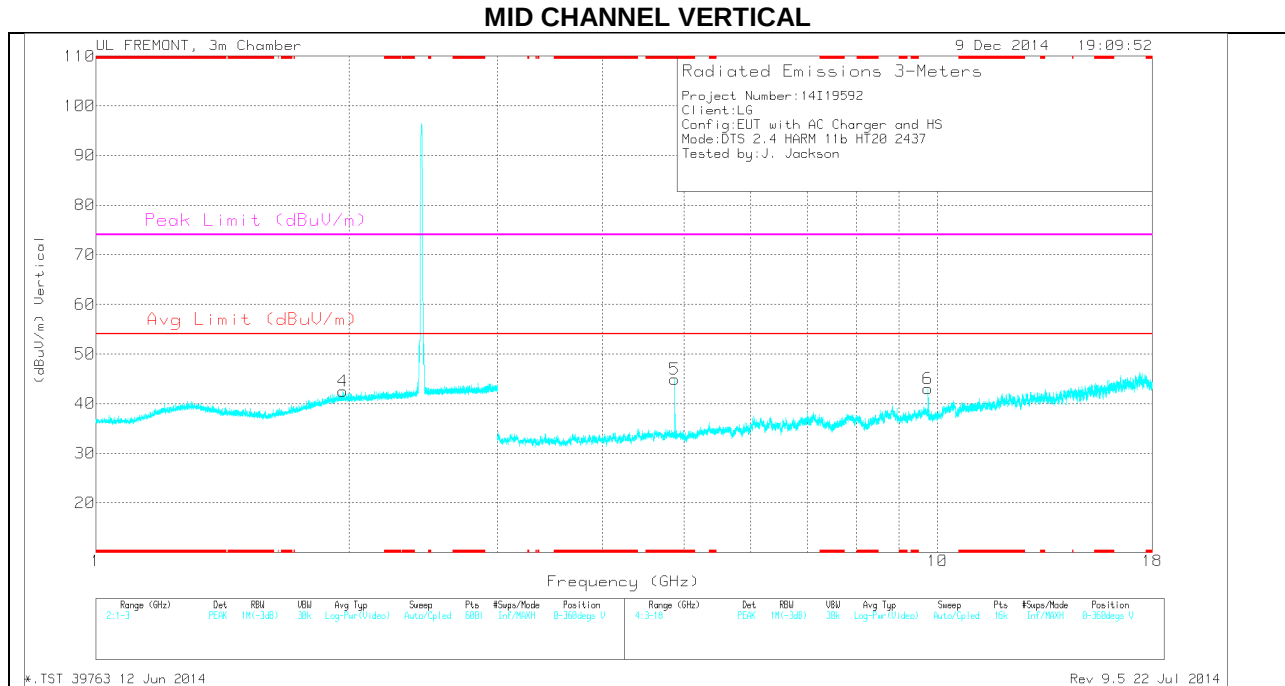
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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
* 4.824	47.42	PK2	34	-30.3	0	51.12	-	-	74	-22.88	359	255	H
* 4.824	43.07	MAV1	34	-30.3	0	46.77	54	-7.23	-	-	359	255	H
* 4.824	47.19	PK2	34	-30.2	0	50.99	-	-	74	-23.01	337	332	V
* 4.824	42.49	MAV1	34	-30.3	0	46.19	54	-7.81	-	-	337	332	V

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



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

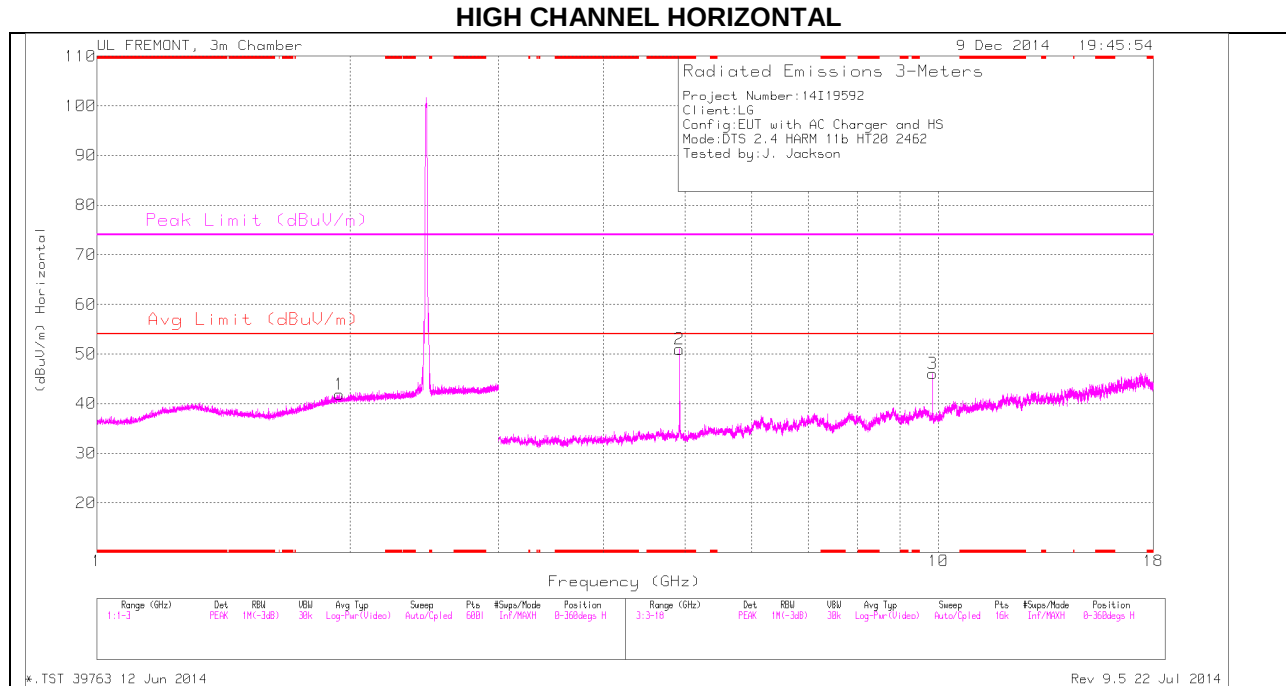
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.874	43.73	PK	34	-30.1	0	47.63	-	-	74	-26.37	0-360	200	H
5	* 4.874	41	PK	34	-30.1	0	44.9	-	-	74	-29.1	0-360	200	V
4	1.964	34.16	PK	31.5	-23.2	0	42.46	-	-	-	-	0-360	200	V
1	2.04	33.84	PK	31.6	-23.2	0	42.24	-	-	-	-	0-360	100	H
3	9.748	31.42	PK	36.9	-25.7	0	42.62	-	-	-	-	0-360	100	H
6	9.748	31.83	PK	36.9	-25.7	0	43.03	-	-	-	-	0-360	200	V

PK - Peak detector

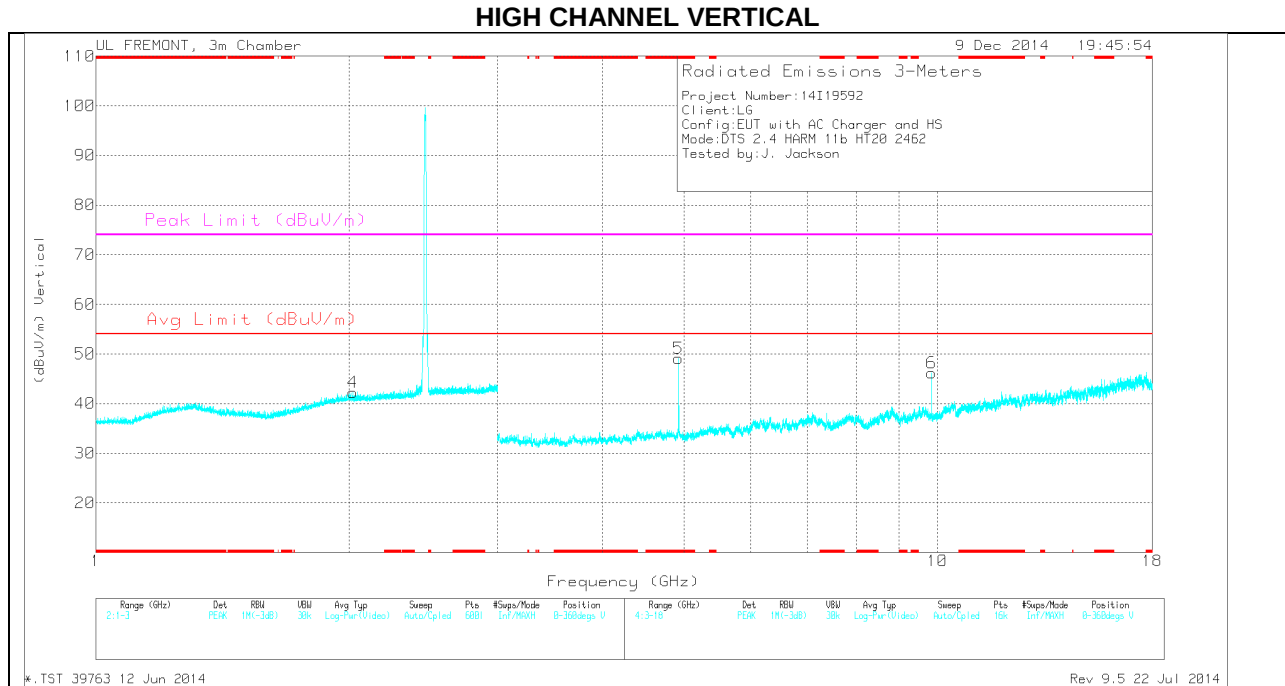
RADIATED EMISSIONS

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
* 4.874	46.97	PK2	34	-30.1	0	50.87	-	-	74	-23.13	176	197	H
* 4.874	42.48	MAV1	34	-30.1	0	46.38	54	-7.62	-	-	176	197	H
* 4.874	45.88	PK2	34	-30.1	0	49.78	-	-	74	-24.22	309	383	V
* 4.874	40.99	MAV1	34	-30.1	0	44.89	54	-9.11	-	-	309	383	V

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



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
2	* 4.924	47.35	PK	34	-30.4	0	50.95	-	-	74	-23.05	0-360	200	H
5	* 4.924	45.52	PK	34	-30.4	0	49.12	-	-	74	-24.88	0-360	100	V
1	1.941	33.68	PK	31.4	-23.2	0	41.88	-	-	-	-	0-360	100	H
4	2.021	33.84	PK	31.6	-23.2	0	42.24	-	-	-	-	0-360	100	V
3	9.848	35.09	PK	36.9	-25.9	0	46.09	-	-	-	-	0-360	200	H
6	9.848	35.24	PK	36.9	-25.9	0	46.24	-	-	-	-	0-360	200	V

PK - Peak detector

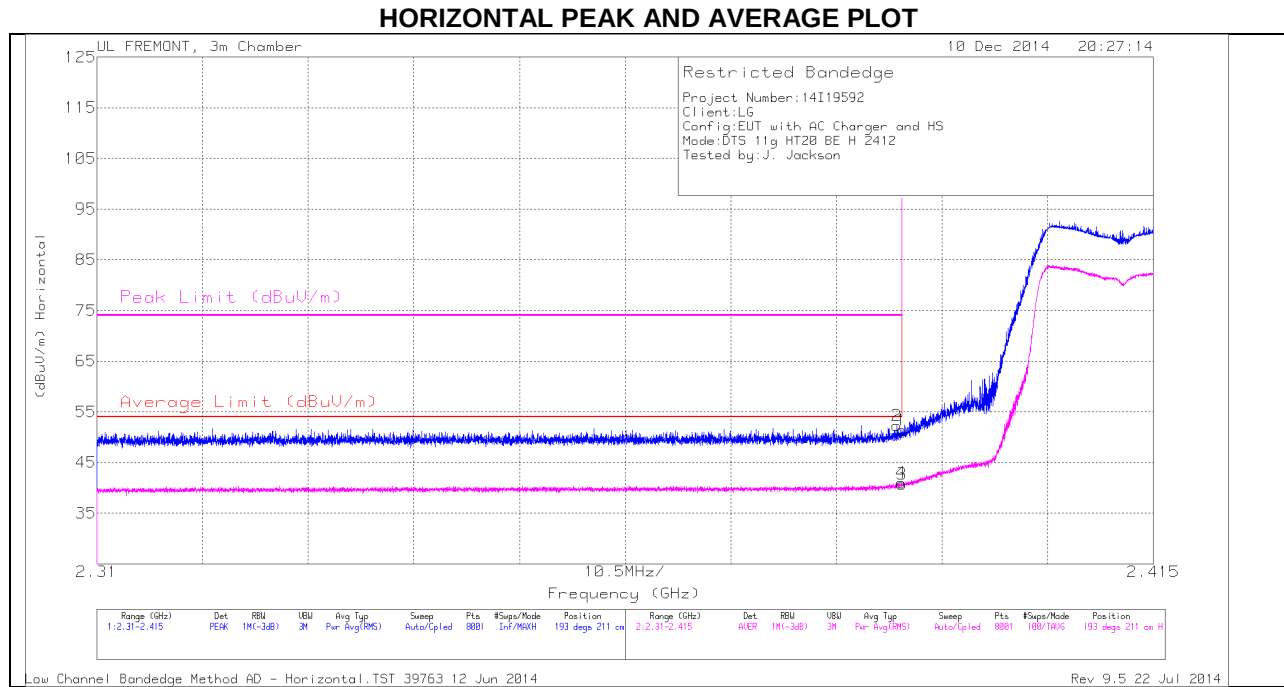
RADIATED EMISSIONS

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
* 4.924	50.86	PK2	34	-30.4	0	54.46	-	-	74	-19.54	341	219	H
* 4.924	47.83	MAV1	34	-30.4	0	51.43	54	-2.57	-	-	341	219	H
* 4.924	50.93	PK2	34	-30.4	0	54.53	-	-	74	-19.47	12	255	V
* 4.924	47.72	MAV1	34	-30.4	0	51.32	54	-2.68	-	-	12	255	V

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

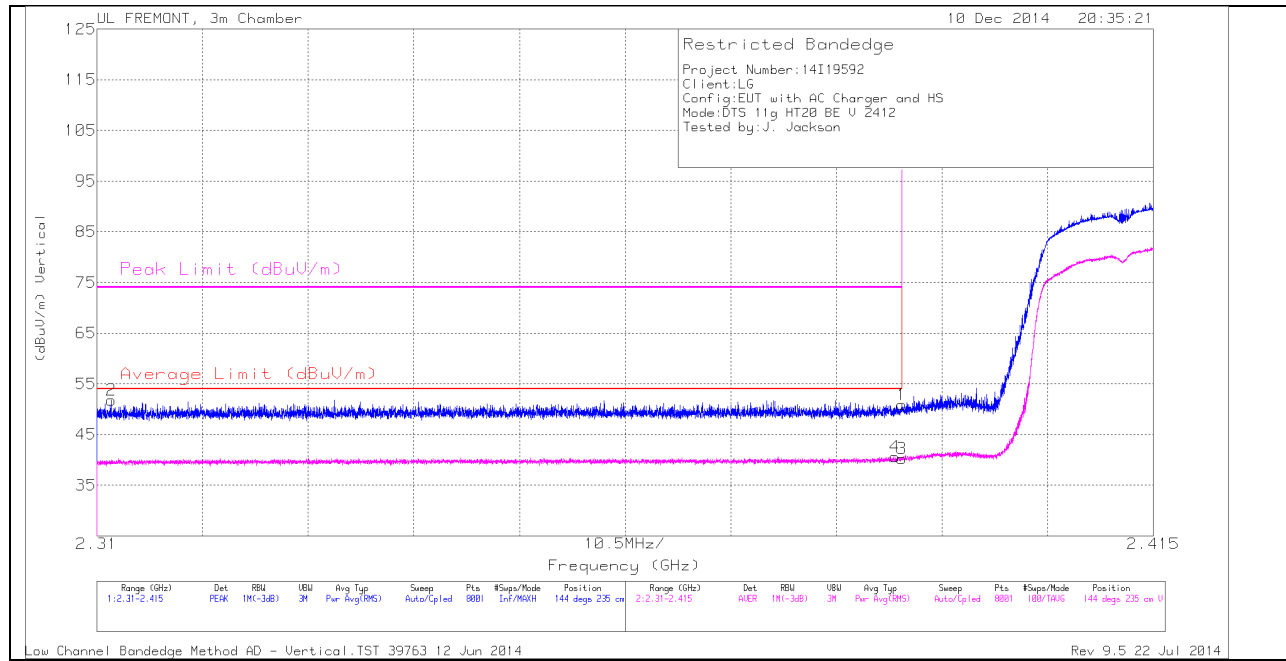
RESTRICTED BANDEDGE (LOW CHANNEL)



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.39	42.37	PK	32.1	-23.1	0	51.37	-	-	74	-22.63	193	211	H
2	2.39	43.3	PK	32.1	-23.1	0	52.3	-	-	74	-21.7	193	211	H
3	2.39	31.55	RMS	32.1	-23.1	.2	40.75	54	-13.25	-	-	193	211	H
4	2.39	31.81	RMS	32.1	-23.1	.2	41.01	54	-12.99	-	-	193	211	H

VERTICAL PEAK AND AVERAGE PLOT

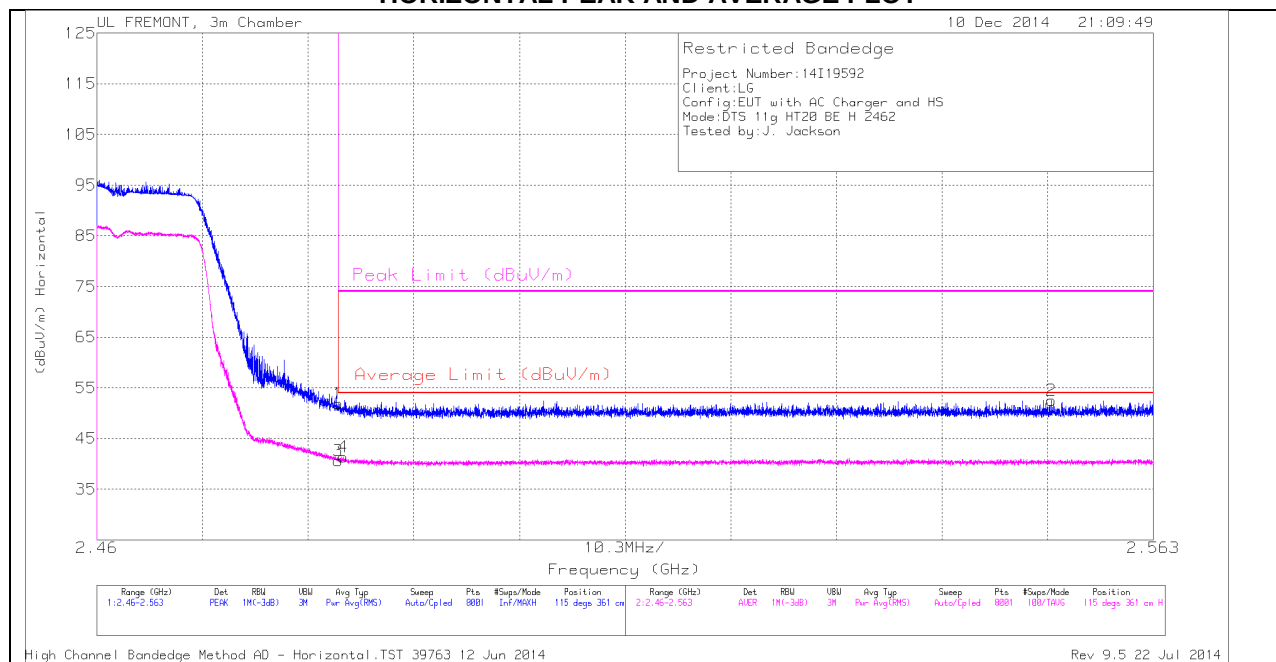


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.311	43.03	PK	31.9	-23.1	0	51.83	-	-	74	-22.17	144	235	V
4	2.389	31.42	RMS	32.1	-23.1	.2	40.62	54	-13.38	-	-	144	235	V
1	2.39	41.94	PK	32.1	-23.1	0	50.94	-	-	74	-23.06	144	235	V
3	2.39	31.02	RMS	32.1	-23.1	.2	40.22	54	-13.78	-	-	144	235	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

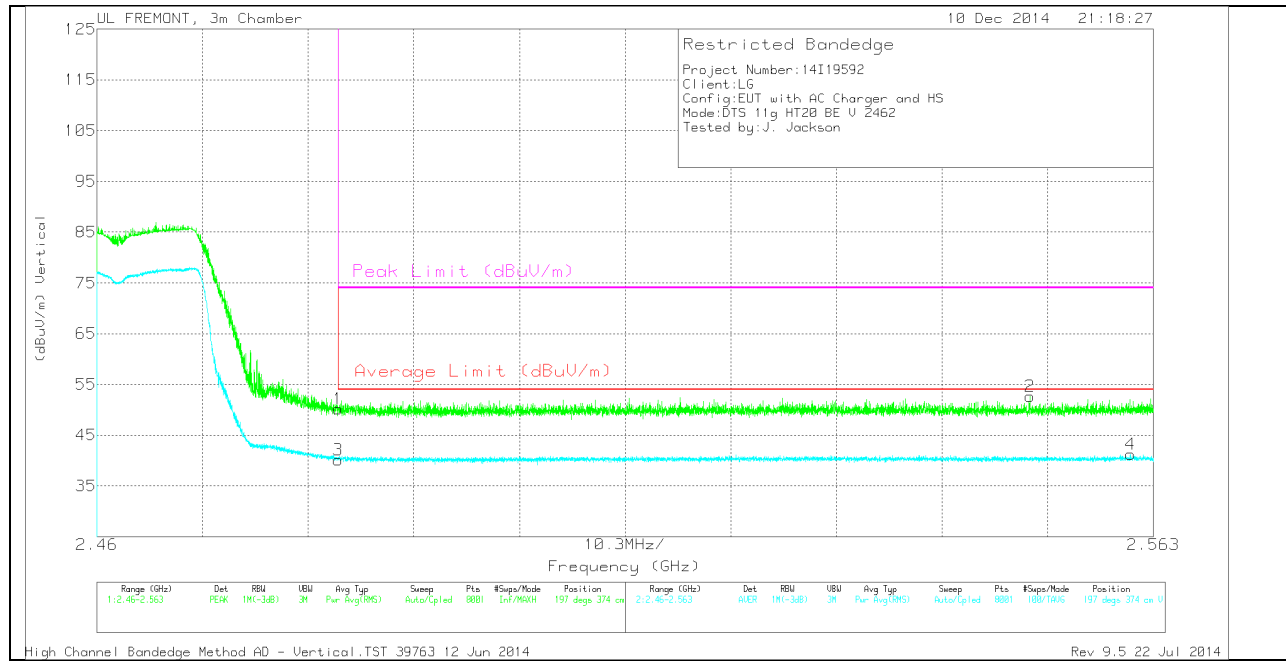
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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	42.39	PK	32.3	-22.8	0	51.89	-	-	74	-22.11	115	361	H
3	2.484	30.94	RMS	32.3	-22.8	.2	40.64	54	-13.36	-	-	115	361	H
4	2.484	31.64	RMS	32.3	-22.8	.2	41.34	54	-12.66	-	-	115	361	H
2	2.553	42.84	PK	32.4	-22.7	0	52.54	-	-	74	-21.46	115	361	H

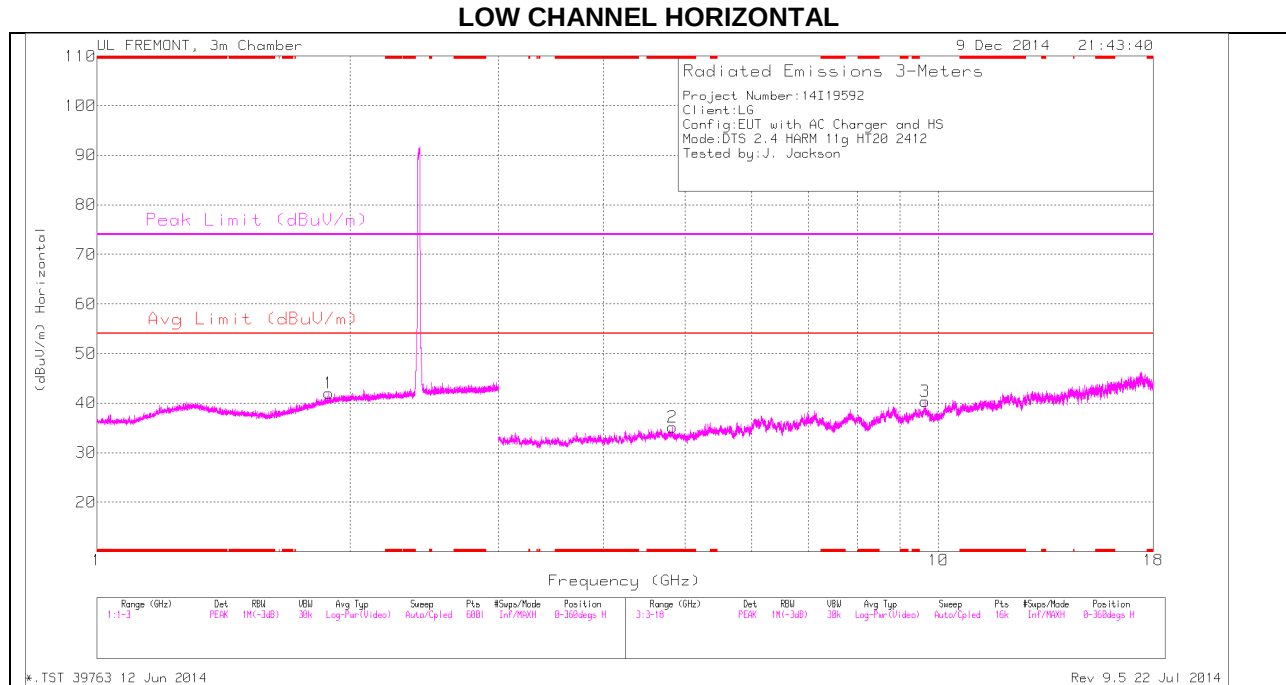
VERTICAL PEAK AND AVERAGE PLOT



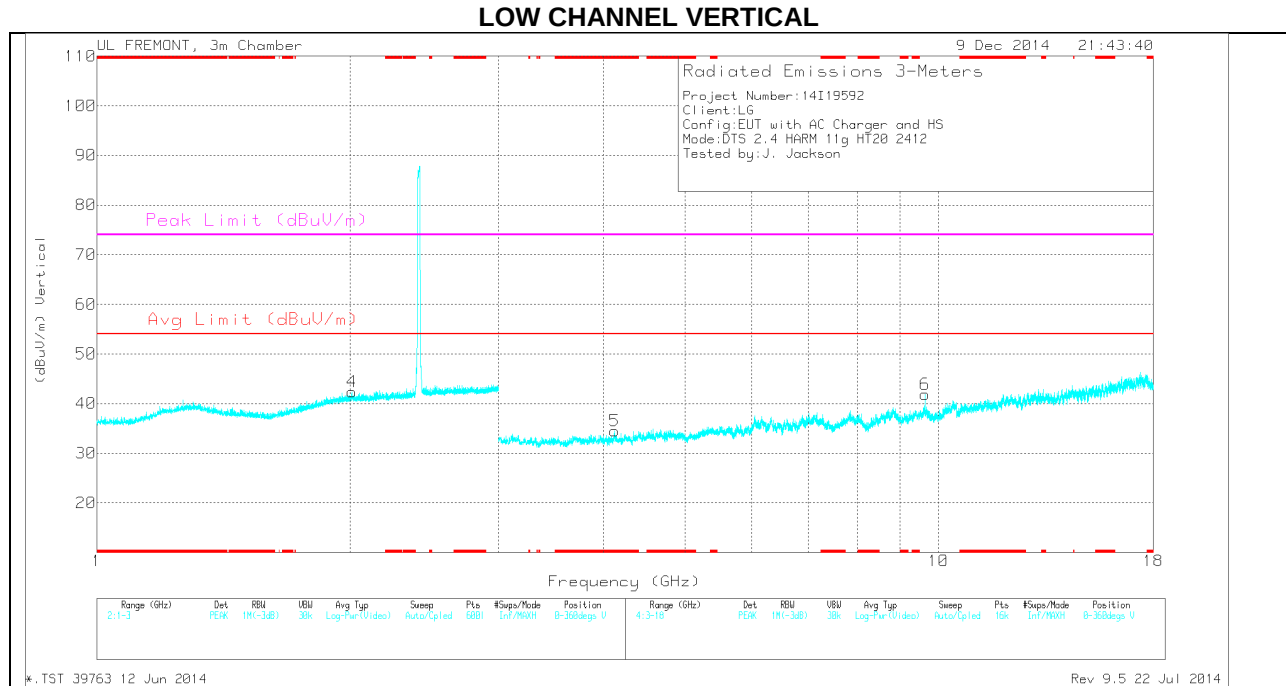
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	40.66	PK	32.3	-22.8	0	50.16	-	-	74	-23.84	197	374	V
3	2.484	30.37	RMS	32.3	-22.8	.2	40.07	54	-13.93	-	-	197	374	V
2	2.551	43.07	PK	32.4	-22.8	0	52.67	-	-	74	-21.33	197	374	V
4	2.561	31.35	RMS	32.4	-22.7	.2	41.25	54	-12.75	-	-	197	374	V

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.



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

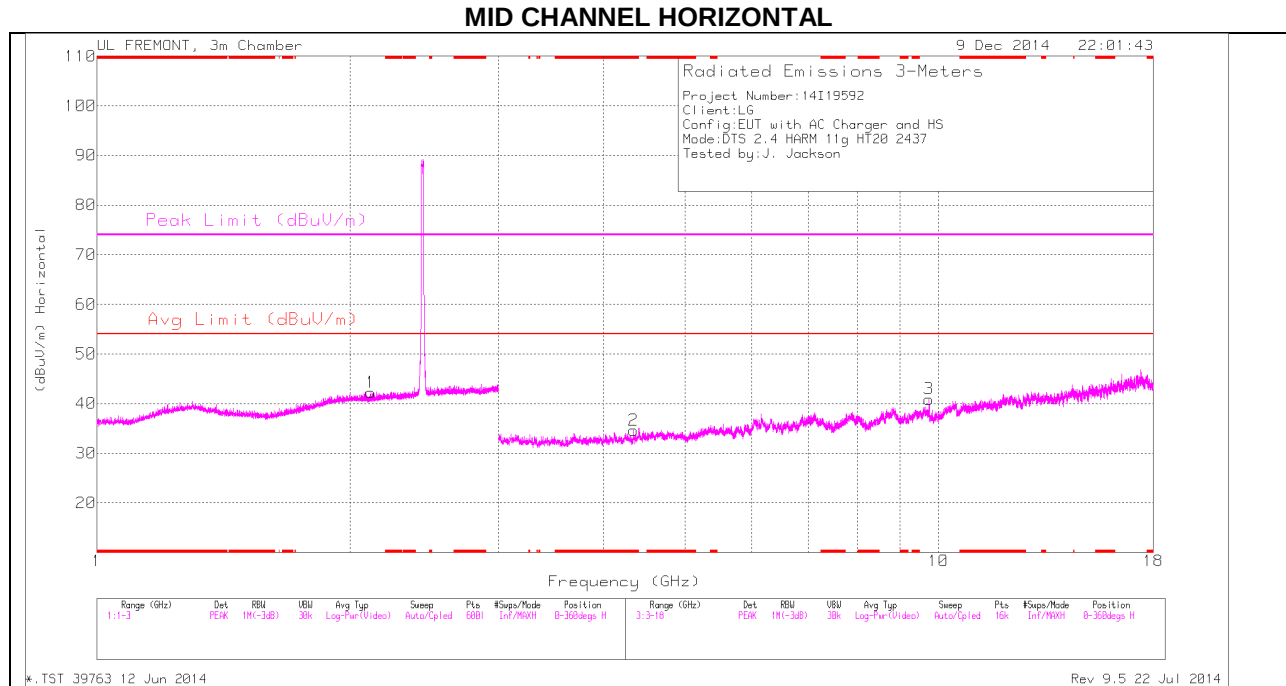
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.829	31.1	PK	34	-30	0	35.1	-	-	74	-38.9	0-360	100	H
5	* 4.12	32.03	PK	33.5	-31	0	34.53	-	-	74	-39.47	0-360	100	V
1	1.886	34.24	PK	31.1	-23.3	0	42.04	-	-	-	-	0-360	100	H
4	2.009	34.01	PK	31.6	-23.2	0	42.41	-	-	-	-	0-360	100	V
3	9.647	29.17	PK	36.8	-25.6	0	40.37	-	-	-	-	0-360	100	H
6	9.647	30.71	PK	36.8	-25.6	0	41.91	-	-	-	-	0-360	200	V

PK - Peak detector

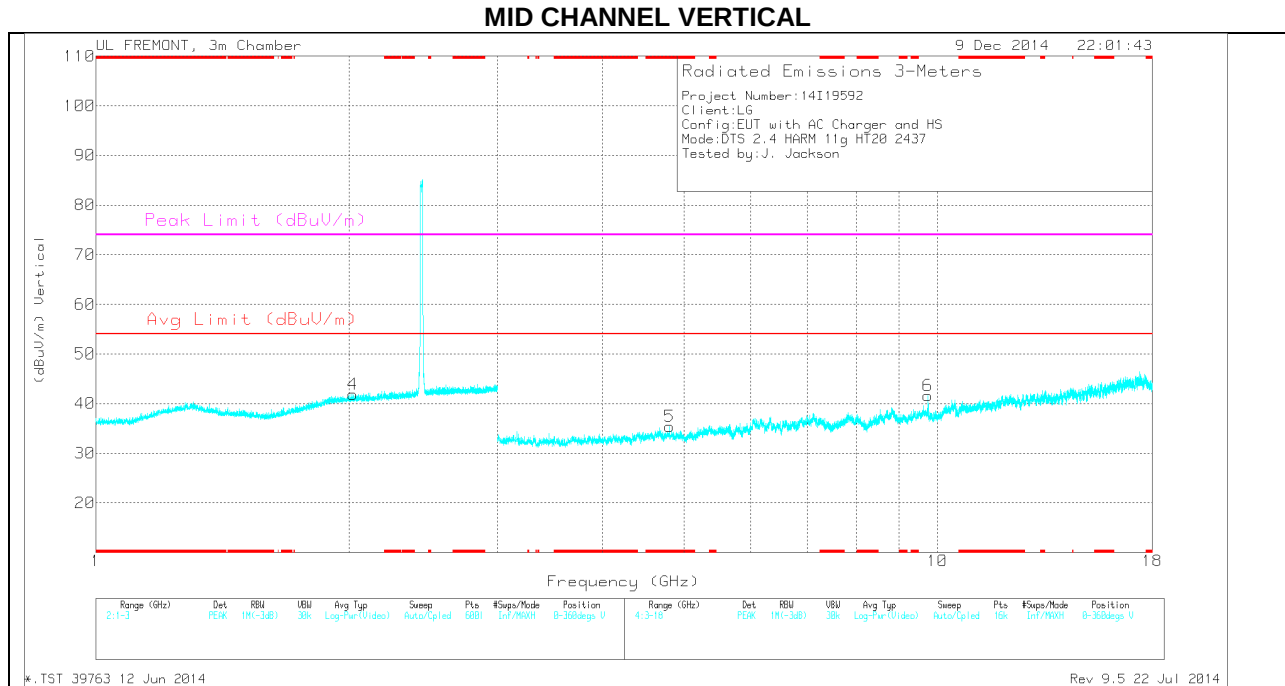
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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
* 4.828	41.16	PK2	34	-30.1	0	45.06	-	-	74	-28.94	199	100	H
* 4.122	40.79	PK2	33.5	-31	0	43.29	-	-	74	-30.71	199	100	V

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



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

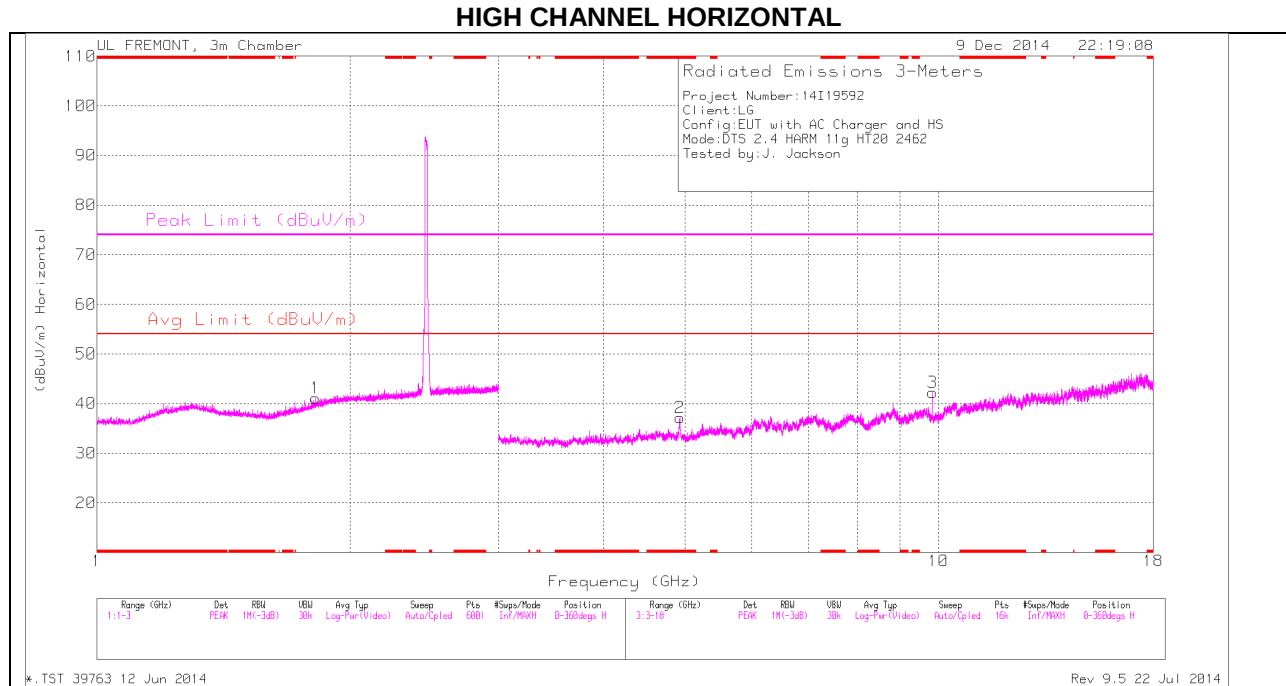
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.339	31.11	PK	33.6	-30.1	0	34.61	-	-	74	-39.39	0-360	200	H
5	* 4.803	31.59	PK	34.1	-30.3	0	35.39	-	-	74	-38.61	0-360	200	V
4	2.021	33.5	PK	31.6	-23.2	0	41.9	-	-	-	-	0-360	200	V
1	2.115	33.68	PK	31.6	-23	0	42.28	-	-	-	-	0-360	100	H
3	9.748	29.72	PK	36.9	-25.7	0	40.92	-	-	-	-	0-360	100	H
6	9.748	30.44	PK	36.9	-25.7	0	41.64	-	-	-	-	0-360	200	V

PK - Peak detector

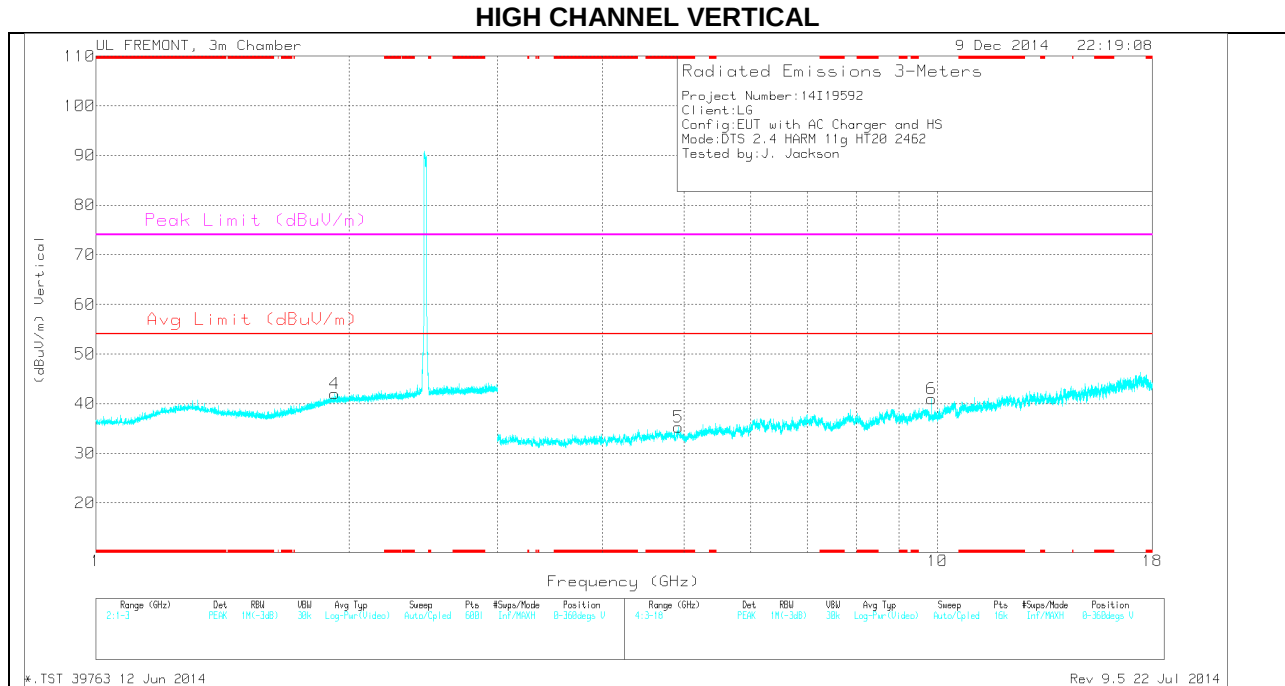
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/ 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
* 4.338	39.81	PK2	33.6	-30.1	0	43.31	-	-	74	-30.69	360	200	H
* 4.803	40.3	PK2	34.1	-30.3	0	44.1	-	-	74	-29.9	360	200	V

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



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
2	* 4.926	33.65	PK	34	-30.5	0	37.15	-	-	74	-36.85	0-360	200	H
5	* 4.922	31.66	PK	34	-30.4	0	35.26	-	-	74	-38.74	0-360	100	V
1	1.819	34.04	PK	30.4	-23.3	0	41.14	-	-	-	-	0-360	100	H
4	1.922	33.91	PK	31.3	-23.2	0	42.01	-	-	-	-	0-360	200	V
3	9.848	31.3	PK	36.9	-25.9	0	42.3	-	-	-	-	0-360	200	H
6	9.848	29.95	PK	36.9	-25.9	0	40.95	-	-	-	-	0-360	200	V

PK - Peak detector

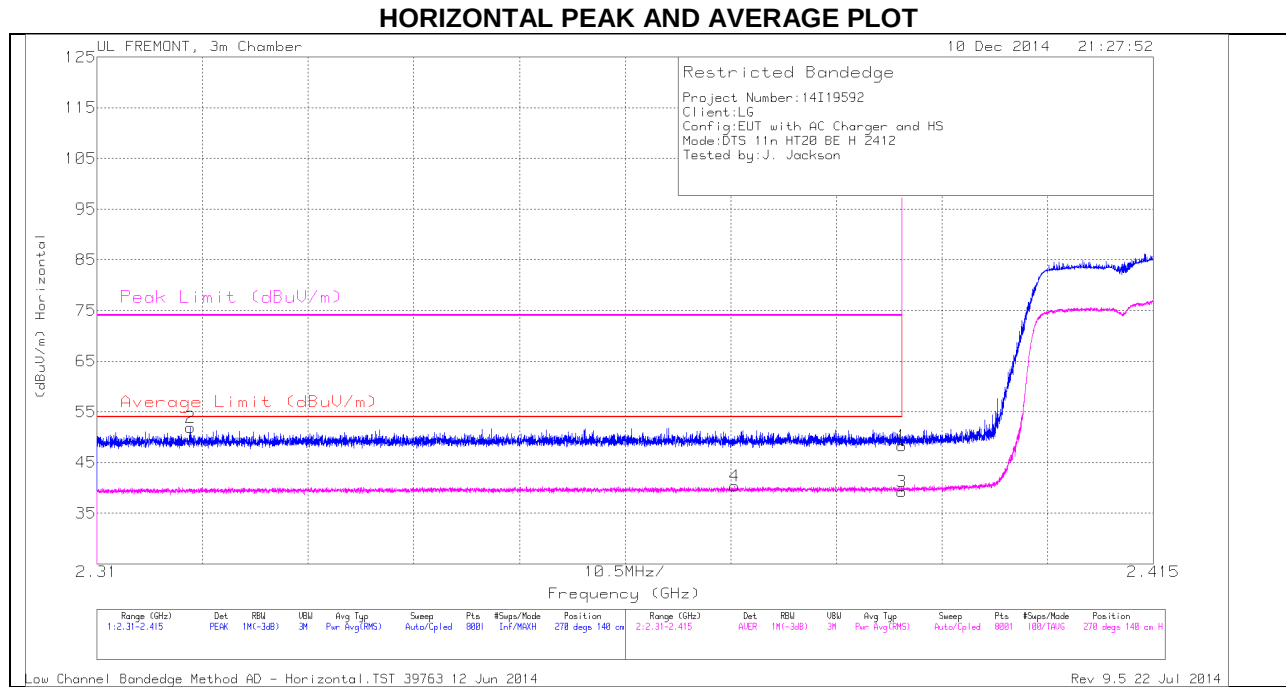
RADIATED EMISSIONS

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
* 4.926	42.6	PK2	34	-30.5	0	46.1	-	-	74	-27.9	332	200	H
* 4.924	42.3	PK2	34	-30.4	0	45.9	-	-	74	-28.1	332	100	V

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

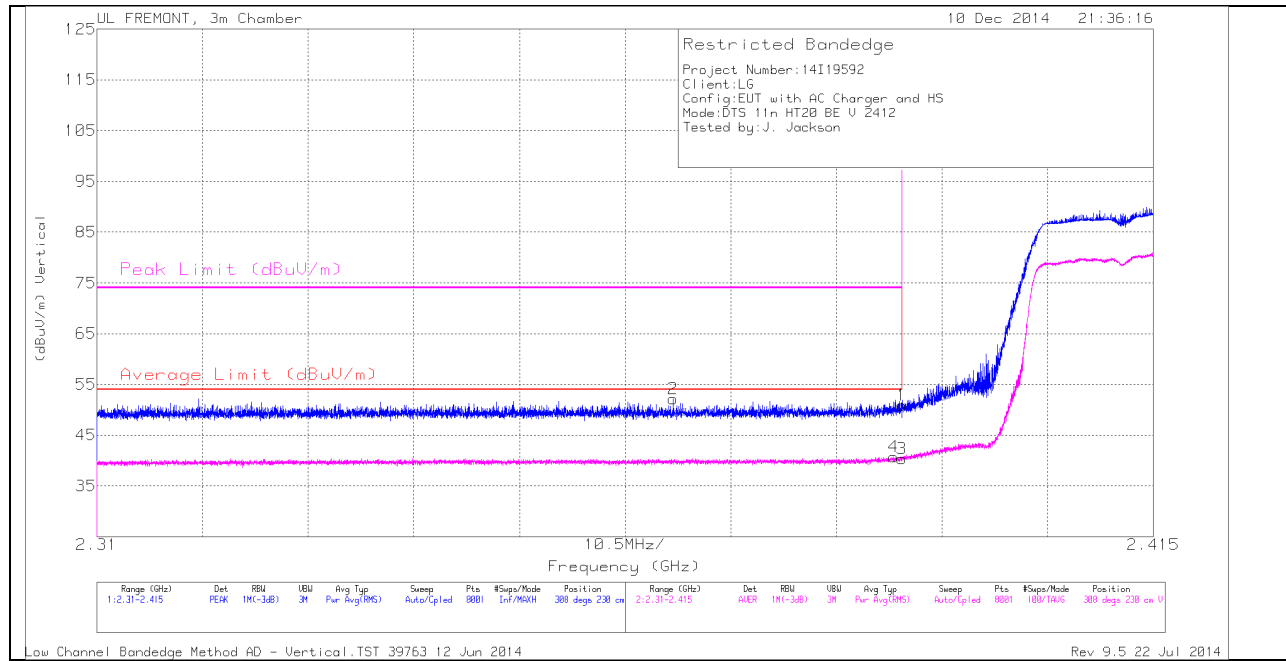
RESTRICTED BANDEDGE (LOW CHANNEL)



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.319	43.11	PK	31.9	-23.1	0	51.91	-	-	74	-22.09	270	140	H
4	2.373	31.26	RMS	32	-23.1	.23	40.39	54	-13.61	-	-	270	140	H
1	2.39	39.33	PK	32.1	-23.1	0	48.33	-	-	74	-25.67	270	140	H
3	2.39	30.06	RMS	32.1	-23.1	.23	39.29	54	-14.71	-	-	270	140	H

VERTICAL PEAK AND AVERAGE PLOT

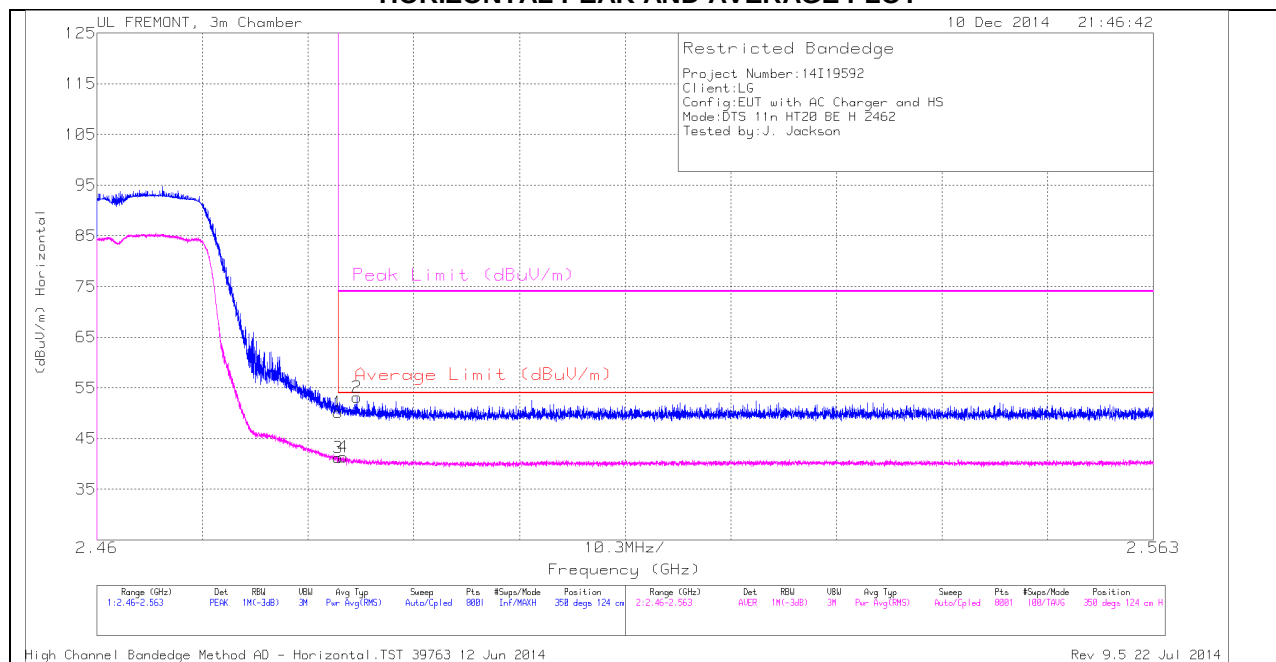


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.367	43.25	PK	32	-23.1	0	52.15	-	-	74	-21.85	308	230	V
4	2.389	31.54	RMS	32.1	-23.1	.23	40.77	54	-13.23	-	-	308	230	V
1	2.39	41.87	PK	32.1	-23.1	0	50.87	-	-	74	-23.13	308	230	V
3	2.39	31.17	RMS	32.1	-23.1	.23	40.4	54	-13.6	-	-	308	230	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

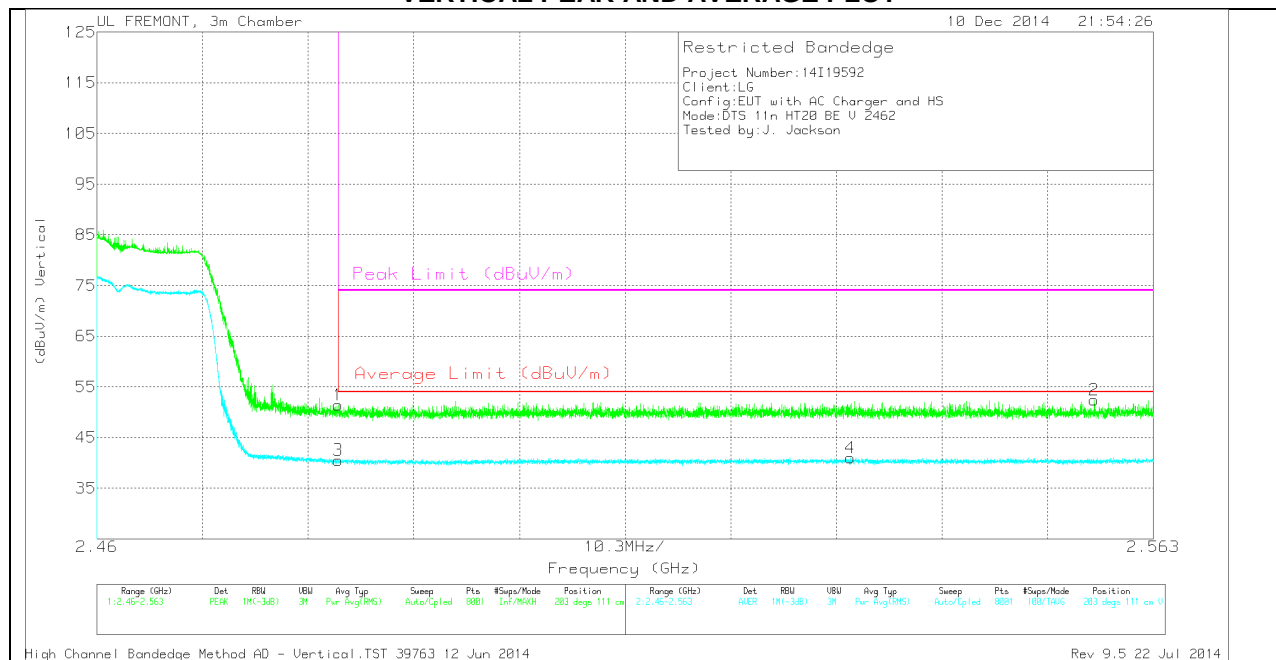
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/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	40.66	PK	32.3	-22.8	0	50.16	-	-	74	-23.84	350	124	H
3	2.484	31.54	RMS	32.3	-22.8	.23	41.27	54	-12.73	-	-	350	124	H
4	2.484	31.65	RMS	32.3	-22.8	.23	41.38	54	-12.62	-	-	350	124	H
2	2.485	43.62	PK	32.3	-22.8	0	53.12	-	-	74	-20.88	350	124	H

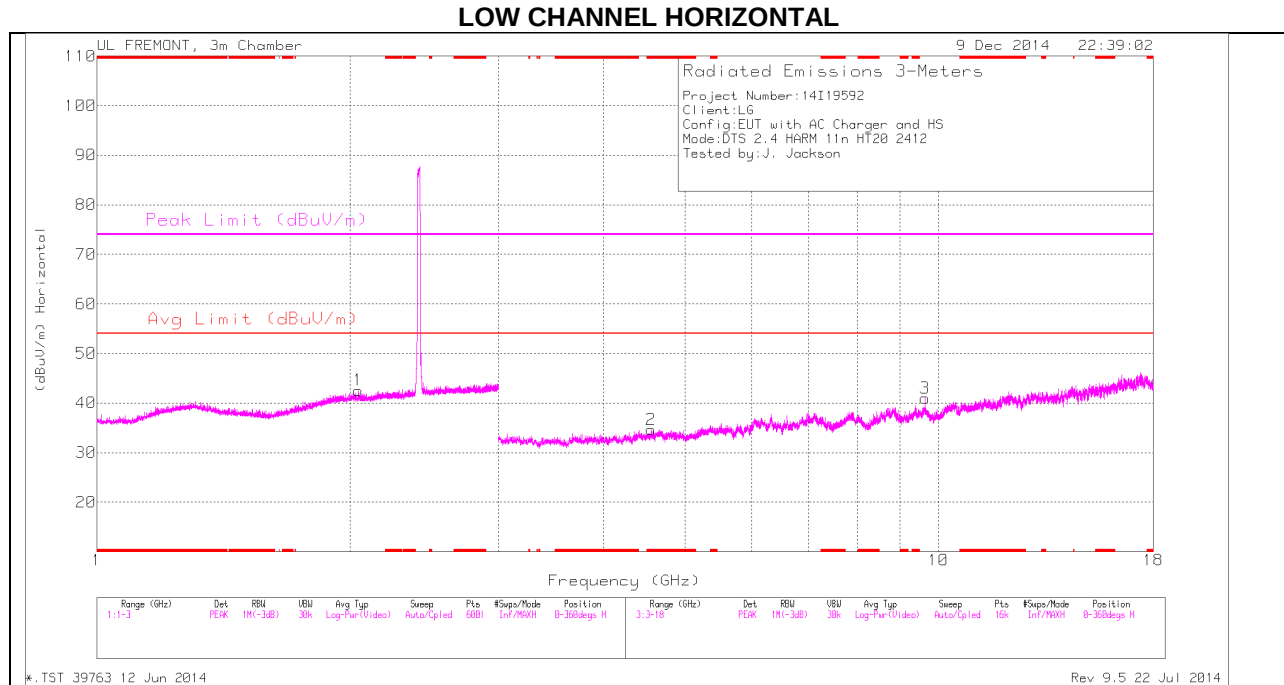
VERTICAL PEAK AND AVERAGE PLOT



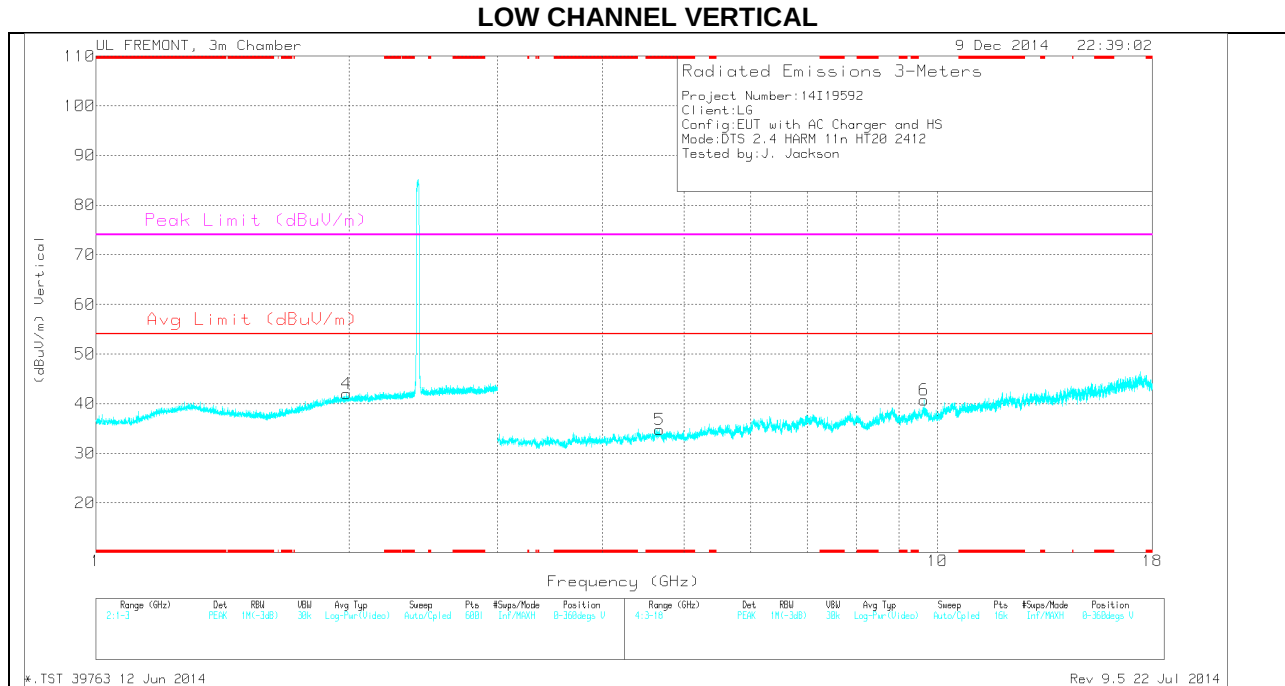
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.484	41.86	PK	32.3	-22.8	0	51.36	-	-	74	-22.64	203	111	V
3	2.484	30.81	RMS	32.3	-22.8	.23	40.54	54	-13.46	-	-	203	111	V
4	2.533	31.08	RMS	32.4	-22.7	.23	41.01	54	-12.99	-	-	203	111	V
2	2.557	42.7	PK	32.4	-22.7	0	52.4	-	-	74	-21.6	203	111	V

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.



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/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
2	* 4.557	31.52	PK	34	-30.9	0	34.62	-	-	74	-39.38	0-360	100	H
5	* 4.677	31.38	PK	34.1	-30.7	0	34.78	-	-	74	-39.22	0-360	200	V
4	1.984	33.74	PK	31.5	-23.2	0	42.04	-	-	-	-	0-360	100	V
1	2.044	34.17	PK	31.6	-23.2	0	42.57	-	-	-	-	0-360	200	H
3	9.647	29.81	PK	36.8	-25.6	0	41.01	-	-	-	-	0-360	200	H
6	9.647	29.51	PK	36.8	-25.6	0	40.71	-	-	-	-	0-360	200	V

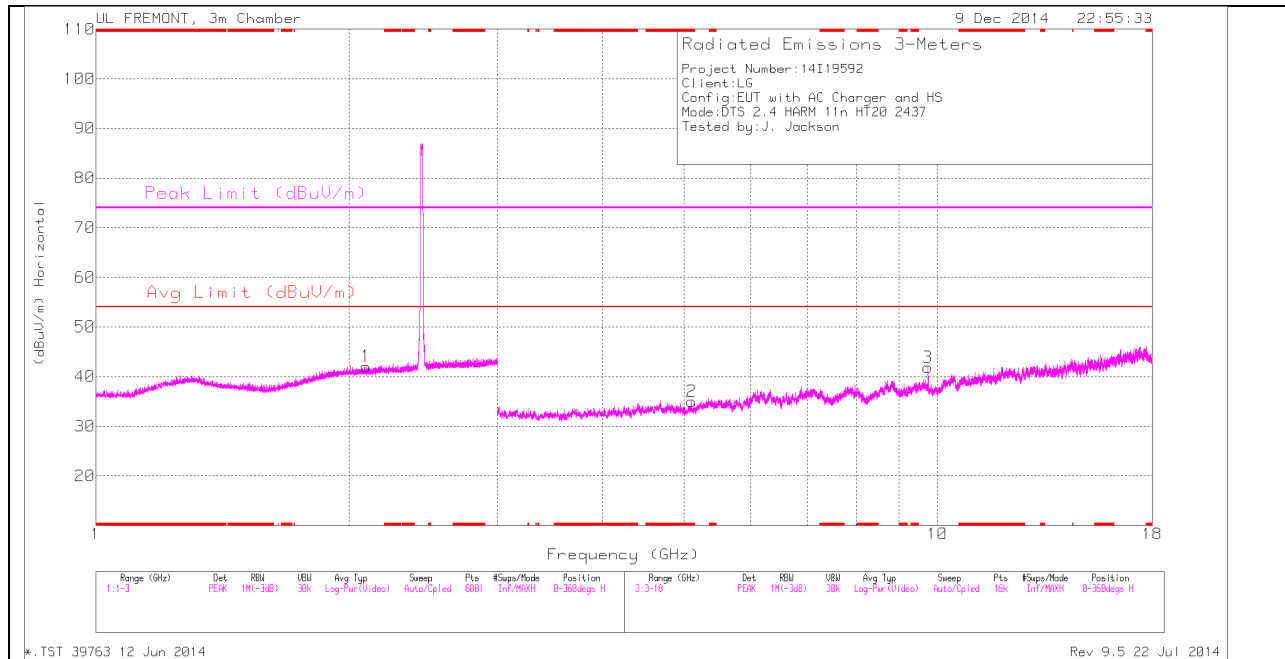
PK - Peak detector

RADIATED EMISSIONS

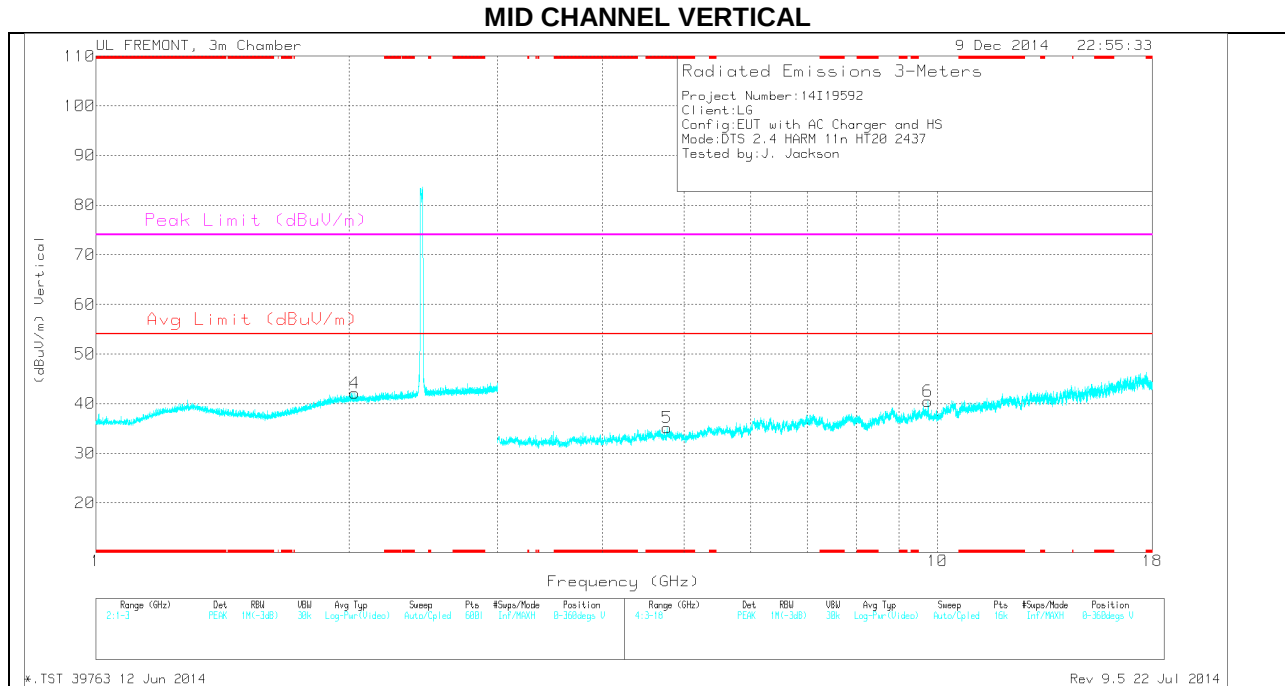
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.555	40.68	PK2	34	-30.9	0	43.78	-	-	74	-30.22	360	100	H
* 4.676	41.13	PK2	34.1	-30.7	0	44.53	-	-	74	-29.47	360	200	V

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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.



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

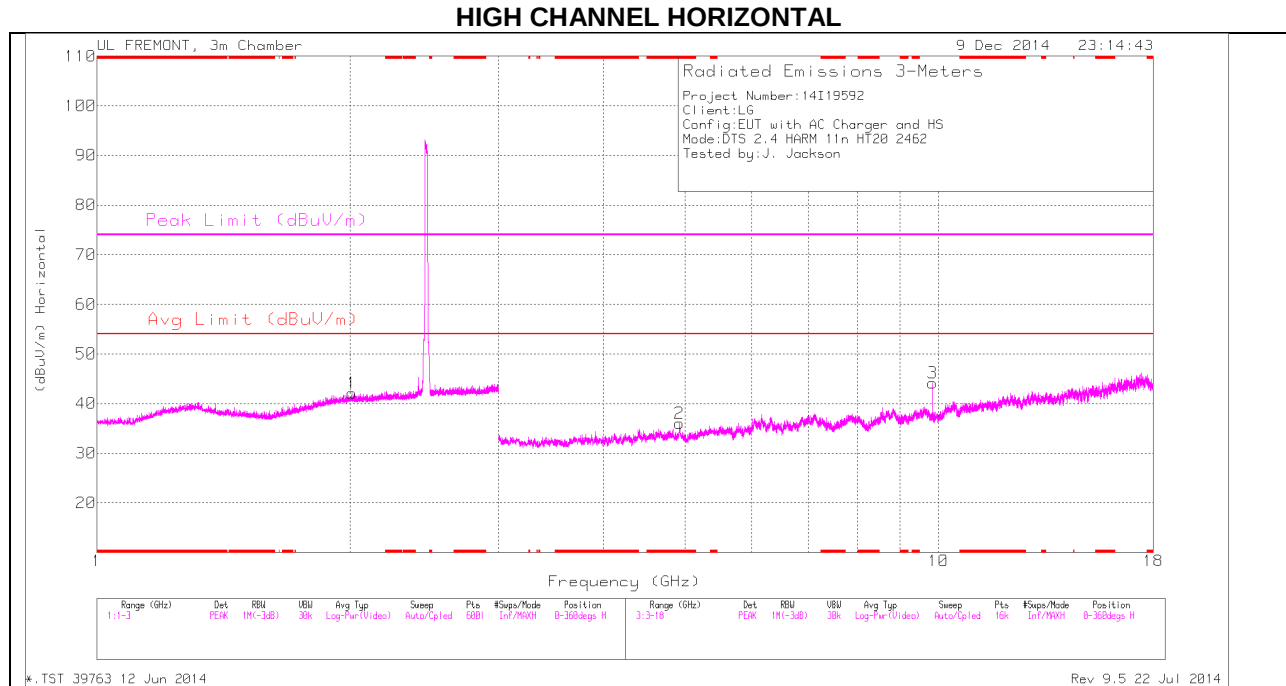
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.105	31.06	PK	34.2	-30.3	0	34.96	-	-	74	-39.04	0-360	100	H
5	* 4.774	31.6	PK	34.1	-30.6	0	35.1	-	-	74	-38.9	0-360	200	V
4	2.029	33.75	PK	31.6	-23.2	0	42.15	-	-	-	-	0-360	100	V
1	2.095	33.46	PK	31.5	-22.9	0	42.06	-	-	-	-	0-360	100	H
3	9.748	30.71	PK	36.9	-25.7	0	41.91	-	-	-	-	0-360	200	H
6	9.748	29.26	PK	36.9	-25.7	0	40.46	-	-	-	-	0-360	100	V

PK - Peak detector

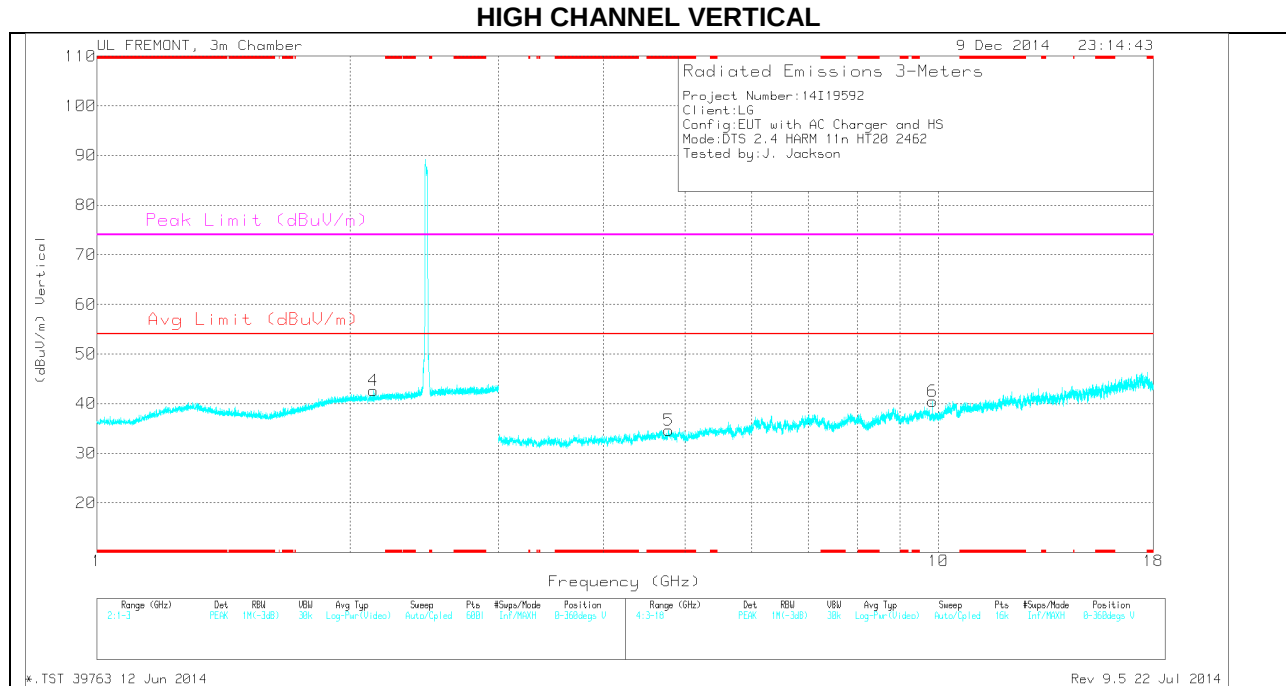
RADIATED EMISSIONS

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
* 5.105	39.78	PK2	34.2	-30.3	0	43.68	-	-	74	-30.32	360	100	H
* 4.773	41.51	PK2	34.1	-30.6	0	45.01	-	-	74	-28.99	360	200	V

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



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
2	* 4.923	32.44	PK	34	-30.4	0	36.04	-	-	74	-37.96	0-360	200	H
5	* 4.779	31.08	PK	34.1	-30.5	0	34.68	-	-	74	-39.32	0-360	200	V
1	2.009	33.77	PK	31.6	-23.2	0	42.17	-	-	-	-	0-360	200	H
4	2.131	34	PK	31.6	-23	0	42.6	-	-	-	-	0-360	200	V
3	9.848	33.13	PK	36.9	-25.9	0	44.13	-	-	-	-	0-360	200	H
6	9.848	29.43	PK	36.9	-25.9	0	40.43	-	-	-	-	0-360	100	V

PK - Peak detector

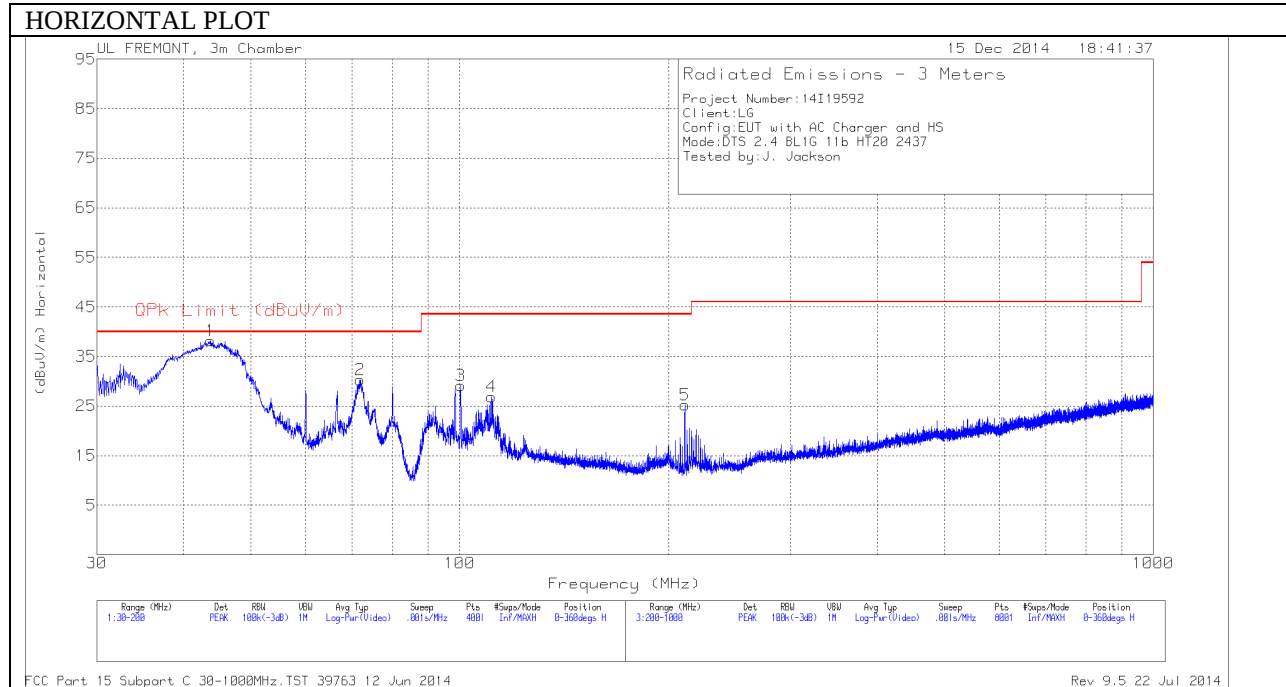
RADIATED EMISSIONS

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
* 4.922	44.47	PK2	34	-30.4	0	48.07	-	-	74	-25.93	360	200	H
* 4.78	40.71	PK2	34.1	-30.5	0	44.31	-	-	74	-29.69	360	200	V

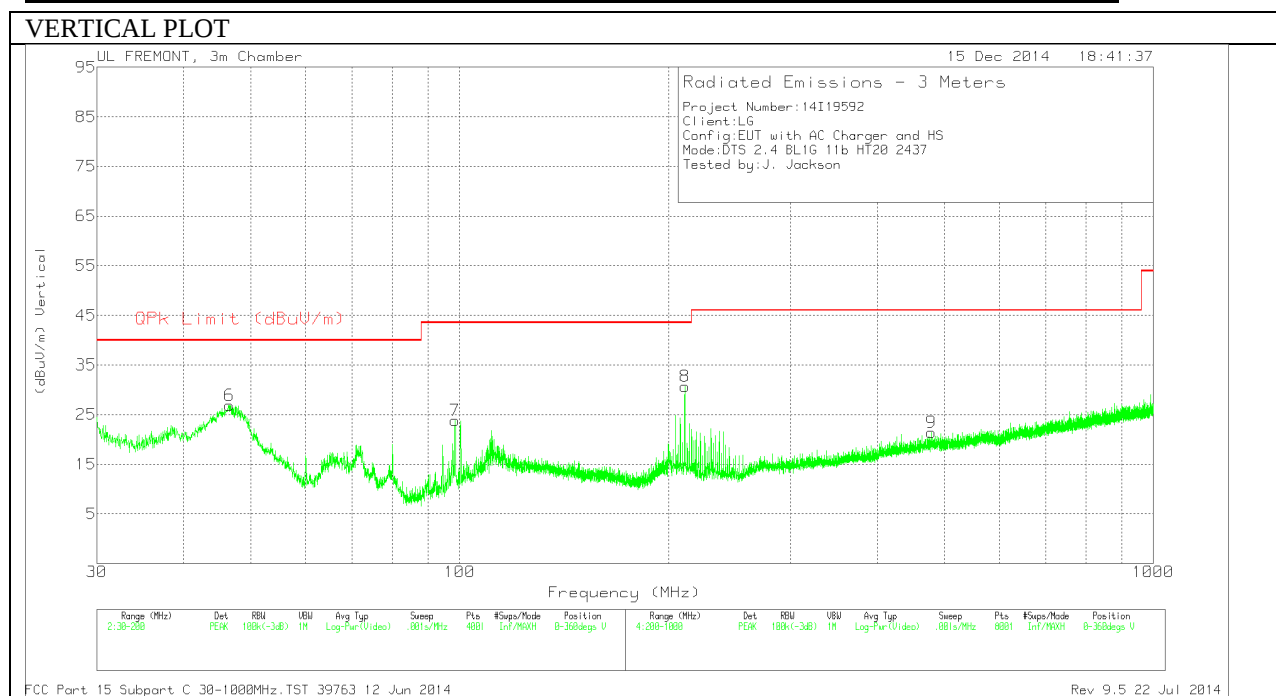
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10.3. WORST-CASE BELOW 1 GHz

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 T185 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	43.77	54.65	PK	10.9	-27.4	38.15	40	-1.85	0-360	100	H
6	46.5325	45.08	PK	9.2	-27.4	26.88	40	-13.12	0-360	100	V
2	71.905	49.25	PK	8.1	-27.1	30.25	40	-9.75	0-360	400	H
7	98.4675	41.1	PK	9.5	-26.8	23.8	43.52	-19.72	0-360	100	V
3	100.295	46	PK	10	-26.8	29.2	43.52	-14.32	0-360	300	H
4	111.2175	41.06	PK	12.5	-26.7	26.86	43.52	-16.66	0-360	200	H
5	211.2	40.59	PK	10.3	-25.7	25.19	43.52	-18.33	0-360	200	H
8	211.2	46.12	PK	10.3	-25.7	30.72	43.52	-12.8	0-360	100	V
9	478.8	29.56	PK	17.8	-25.9	21.46	46.02	-24.56	0-360	100	V

PK - Peak detector

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

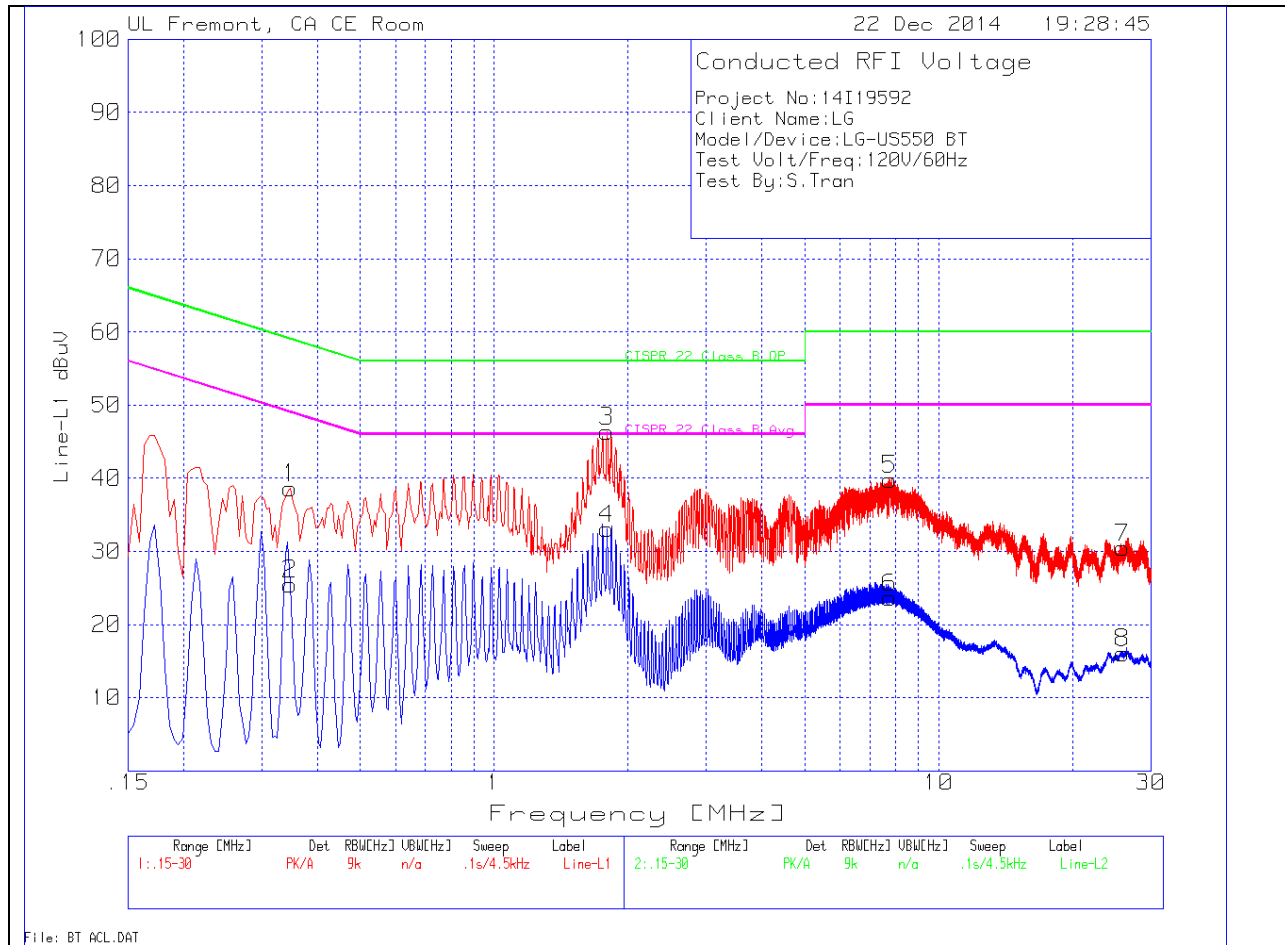
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4 2009.

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.

6 WORST EMISSIONS

LINE 1 PLOT



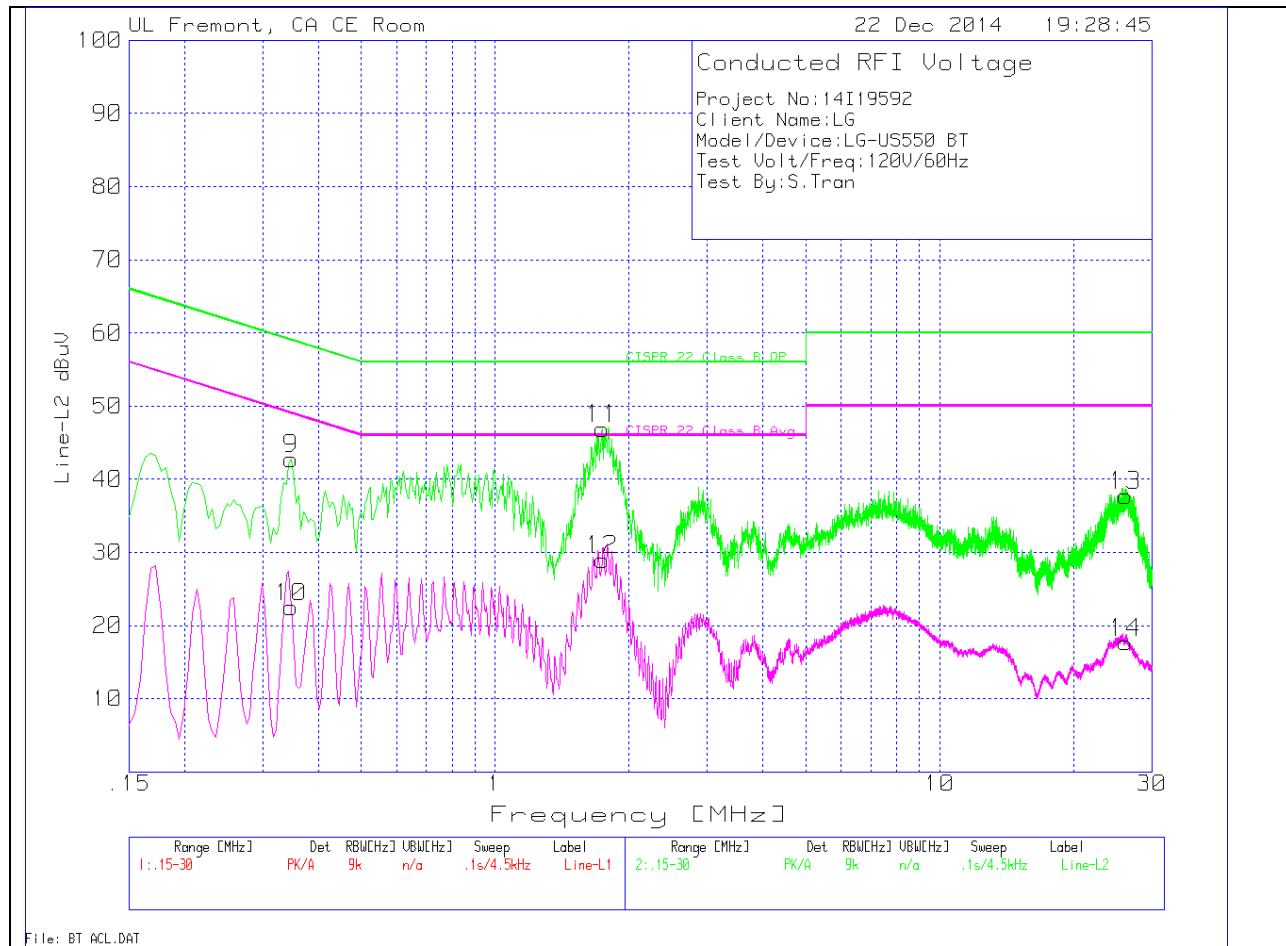
LINE 1 RESULTS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.348	38.08	PK	.5	0	38.58	59	-20.42	-	-
2	.348	24.93	Av	.5	0	25.43	-	-	49	-23.57
3	1.7925	46.09	PK	.2	.1	46.39	56	-9.61	-	-
4	1.7925	32.73	Av	.2	.1	33.03	-	-	46	-12.97
5	7.7505	39.49	PK	.2	.1	39.79	60	-20.21	-	-
6	7.7505	23.32	Av	.2	.1	23.62	-	-	50	-26.38
7	25.89	29.85	PK	.3	.3	30.45	60	-29.55	-	-
8	25.89	15.44	Av	.3	.3	16.04	-	-	50	-33.96

LINE 2 PLOT



LINE 2 RESULTS

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
9	.348	42.31	PK	.5	0	42.81	59	-16.19	-	-
10	.348	21.96	Av	.5	0	22.46	-	-	49	-26.54
11	1.7385	46.59	PK	.2	.1	46.89	56	-9.11	-	-
12	1.7385	28.62	Av	.2	.1	28.92	-	-	46	-17.08
13	26.151	37.17	PK	.3	.3	37.77	60	-22.23	-	-
14	26.151	17.08	Av	.3	.3	17.68	-	-	50	-32.32

PK - Peak detector

Av - average detection