FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

WIFI MODULE

MODEL NUMBER: C4LGWM (module), C4-WALL7 and C4-WALL10 (host)

FCC ID: R33C4LGWM

IC ID: 7848A-C4LGWM

REPORT NUMBER: 15U19841-E2 REVISION A

ISSUE DATE: MARCH 20, 2015

Prepared for
CONTROL 4 CORP.
11724 S. ELECTION RD.
SALT LAKE CITY, UT 84020
USA

Prepared by
UL VERIFICATION SERVICES INC.
47173 BENICIA STREET
FREMONT, CA 94538, U.S.A.
TEL: (510) 771-1000
FAX: (510) 661-0888

NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	2/11/15	Initial Issue	P. Zhang
A	3/20/15	Updated Module's Model No.	L. Nguyen

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	**CONTROL 4 CORP.** **11724 S. ELECTION RD.** **SALT LAKE CITY, UT, 84020, USA**
EUT DESCRIPTION:	**WIFI module**
MODEL:	**C4LGWM, C4-WALL7 and C4-WALL10**
SERIAL NUMBER:	**2038586 (Conducted); 2044026- (7 inch Radiated) and 2044027 (10 inch Radiated)**
DATE TESTED:	**JAN 21 – FEB 11, 2015**

APPLICABLE STANDARDS

STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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

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

Approved & Released
For UL Verification Services Inc. By:

PENG ZHANG
CONSUMER TECHNOLOGY DIVISION
PROJECT LEAD
UL Verification Services Inc.

Tested By:

CHARLES VERGONIO
CONSUMER TECHNOLOGY DIVISION
LAB ENGINEER
UL Verification Services Inc.

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2. TEST METHODOLOGY

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

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	☐ Chamber D
☒ Chamber B	☐ Chamber E
☒ Chamber C	☐ Chamber F
	☐ Chamber G

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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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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 26000 MHz	4.94 dB

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

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a WIFI module (C4LGWM) with two hosts C4-WALL 7and C4-WALL 10. The C4-WALL7 is a 7" and the C4-WALL10 is a 10" display with capacitive touchscreen for use in Control4 home automation and security systems. The touchscreen is attached to a power supply box via ribbon cable. The power supply box is mounted into either a plastic or metal back box that is installed flush to the wall.

The C4-WALL7 and C4-WALL10 has an 802.11b/g/n transceiver and an Ethernet port for interfacing to the Control4 system.

The radio module is manufactured by Control 4 Corp.

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	13.6	22.91
2412 - 2462	802.11g	11.3	13.49
2412 - 2462	802.11n HT20	10.2	10.47

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes one antenna with a maximum gain of 0.18 dBi for C4-WALL7 and 2.51 for C4 WALL10.

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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 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

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5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Laptop	Lenovo	T430	PBB4M4Y	Doc
AC/DC Adapter	Lenovo	42T4430	11S42T4430ZGWE28WKP4	N/A
Switch	HP	J9793A	CN20FQ6DLZ	Doc

I/O CABLES

I/O Cable List						
Cable No	**Port**	**# of identical ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	AC	1	AC	Unshielded	1.5	
2	DC	1	DC	Unshielded	1.5	AC Mains to Laptop
3	AC	1	AC	Unshielded	1.5	AC Mains to EUT
4	Ethernet	1	RJ45	Unshielded	1.5	Laptop to Switch
5	Ethernet	1	RJ45	Unshielded	1.5	Switch to EUT

TEST SETUP

The EUT is installed in a host control panel during the tests. Test software exercised the radio.

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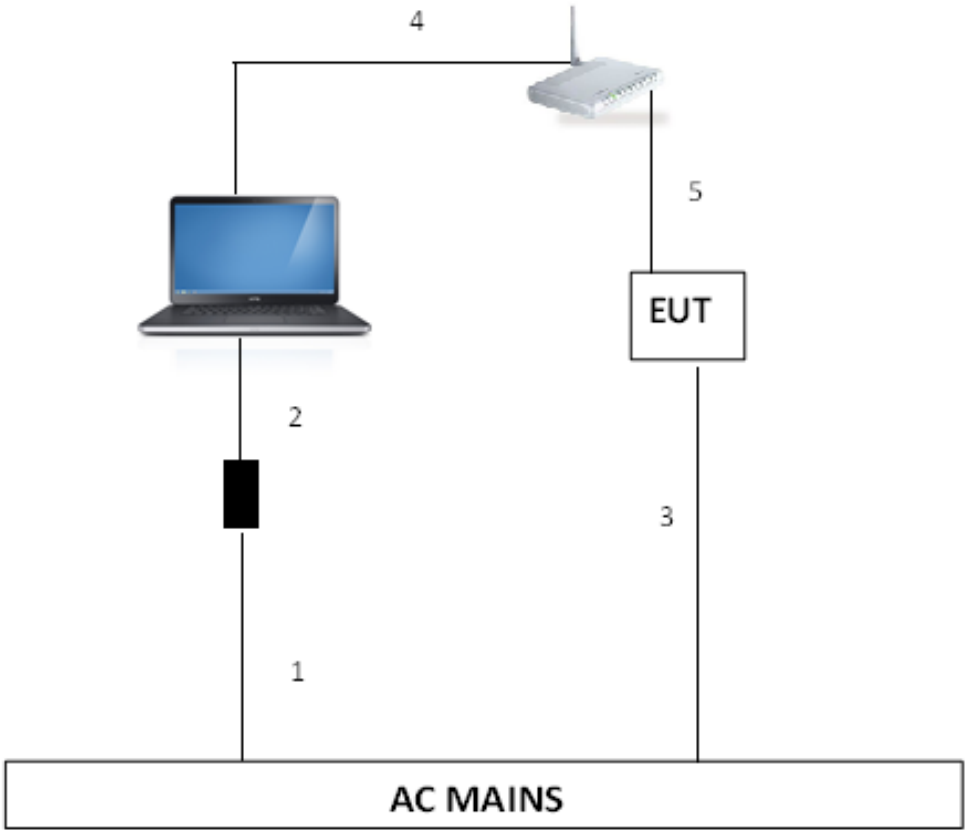
SETUP DIAGRAM FOR TESTS



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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

Test Equipment List			
Description	**Manufacturer**	**Model**	**Version**
Radiated Software	UL	UL EMC	Version 9.5, 07/22/14
Conducted Software	UL	UL EMC	Version 9.5, 05/17/14
CLT Software	UL	UL RF	Version 1.0, 02/02/15
Antenna Port Software	UL	UL RF	Version 2.1.1.1, 1/20/15

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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.

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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	8.01MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-31.18dBm
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	13.6dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-14.79dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	55.48dBuV(AV)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	52.94dBuV/m

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9. ANTENNA PORT TEST RESULTS

9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

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 to100KHz, the VBW >= 3 x RBW, peak detector and max hold.

RESULTS

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9.1.1. 802.11b MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	8.03	0.5
Mid	2437	8.01	0.5
High	2462	8.04	0.5
Worst		8.01	

9.1.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2412	15.12	0.5
Mid	2437	15.12	0.5
High	2462	15.12	0.5
Worst		15.12	

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	15.15	0.5
Mid	2437	15.12	0.5
High	2462	15.12	0.5
Worst		15.12	

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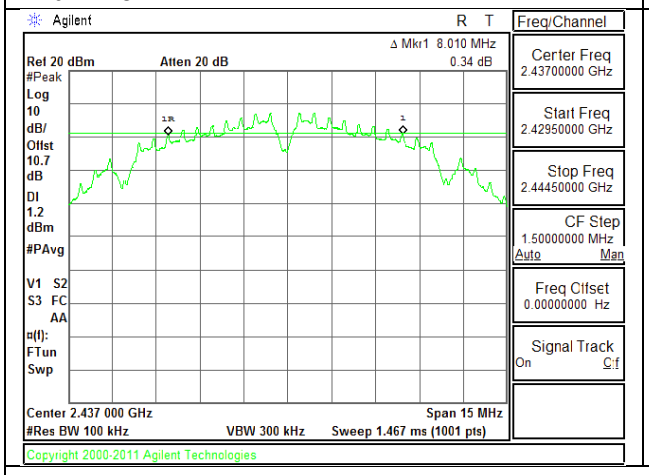
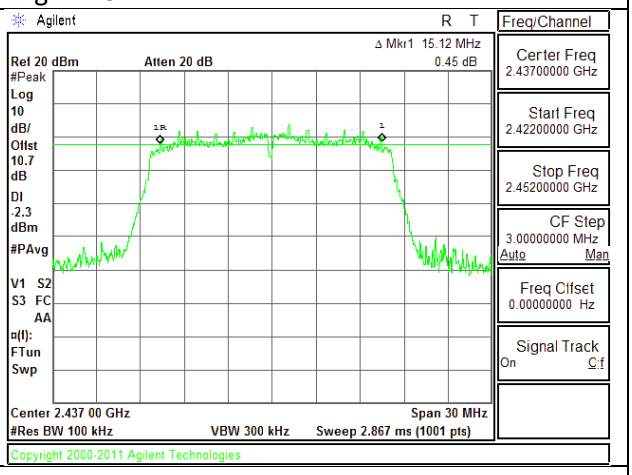
9.1.4. 6 dB BANDWIDTH MID CH PLOTS

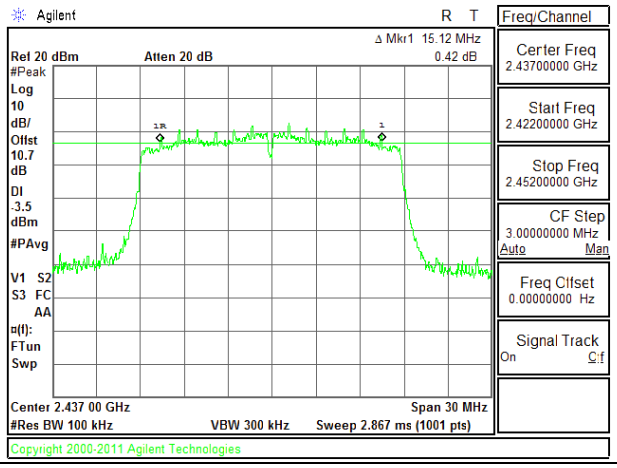
11b HT20 2.4



11g HT20 2.4



11n HT20 2.4



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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	12.15
Mid	2437	12.09
High	2462	12.03
Worst		12.15

9.2.2. 802.11g MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	16.30
Mid	2437	16.30
High	2462	16.31
Worst		16.31

9.2.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2412	17.46
Mid	2437	17.45
High	2462	17.45
Worst		17.46

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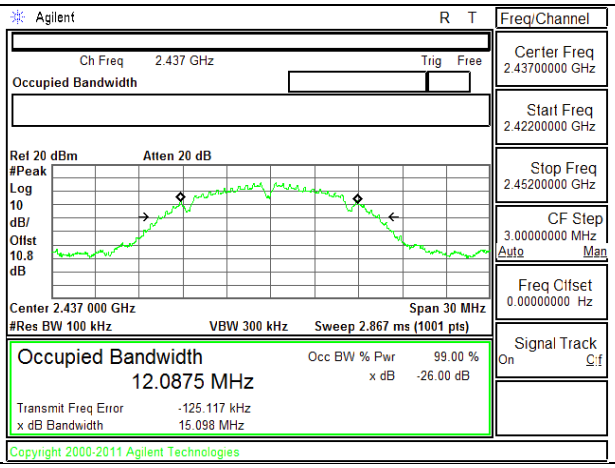
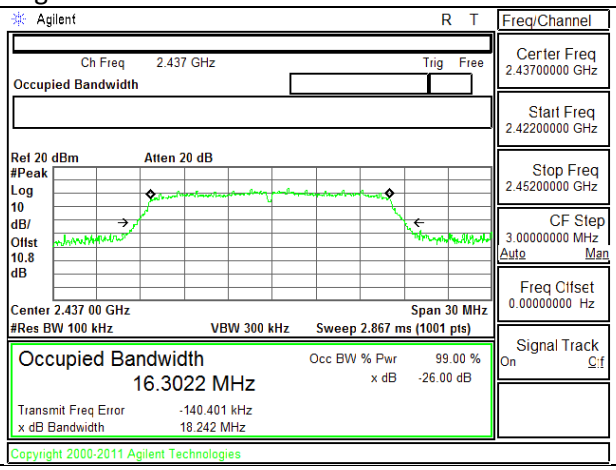
9.2.4. 99% BANDWIDTH MID CH PLOTS

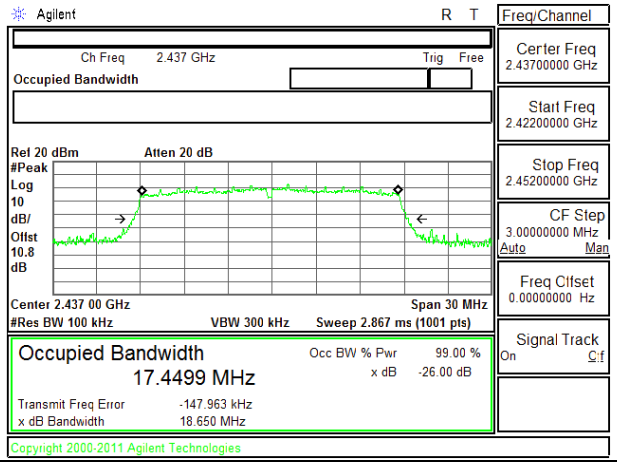
11b HT20 2.4



11g HT20 2.4



11n HT20 2.4



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9.3. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-210 A8.4

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

DIRECTIONAL ANTENNA GAIN

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

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

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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	2.51	30.00	30	36	30.00
Mid	2437	2.51	30.00	30	36	30.00
High	2462	2.51	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	13.60	13.60	30.00	-16.40
Mid	2437	13.20	13.20	30.00	-16.80
High	2462	12.80	12.80	30.00	-17.20
Worst			13.60		

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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	2.51	30.00	30	36	30.00
Mid	2437	2.51	30.00	30	36	30.00
High	2462	2.51	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	11.30	11.30	30.00	-18.70
Mid	2437	11.20	11.20	30.00	-18.80
High	2462	11.00	11.00	30.00	-19.00
Worst			11.30		

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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	2.51	30.00	30	36	30.00
Mid	2437	2.51	30.00	30	36	30.00
High	2462	2.51	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	10.20	10.20	30.00	-19.80
Mid	2437	9.90	9.90	30.00	-20.10
High	2462	9.80	9.80	30.00	-20.20
Worst			10.20		

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9.4. PSD

LIMITS

FCC §15.247

IC RSS-210 A8.2

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

RESULTS

9.4.1. 802.11b MODE IN THE 2.4 GHz BAND

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
Low	2412	-14.79	8.0	-22.8
Mid	2437	-14.90	8.0	-22.9
High	2462	-15.20	8.0	-23.2

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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	-18.00	8.0	-26.0
Mid	2437	-18.41	8.0	-26.4
High	2462	-19.50	8.0	-27.5

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	-20.01	8.0	-28.0
Mid	2437	-19.68	8.0	-27.7
High	2462	-20.41	8.0	-28.4

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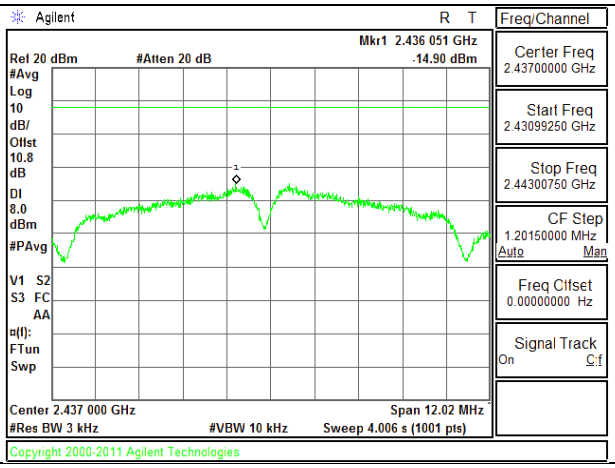
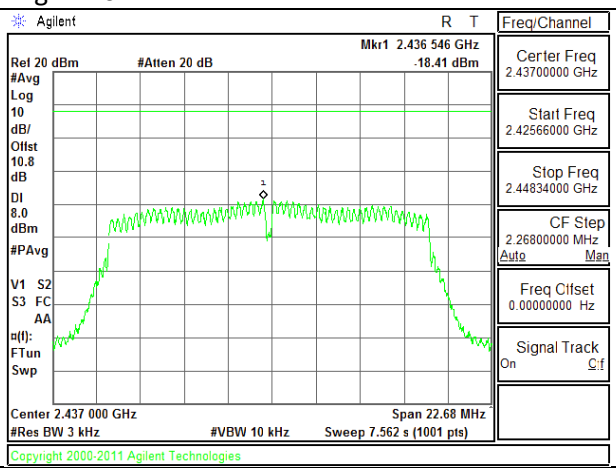
9.4.4. PSD Chain 0 MID CH PLOTS

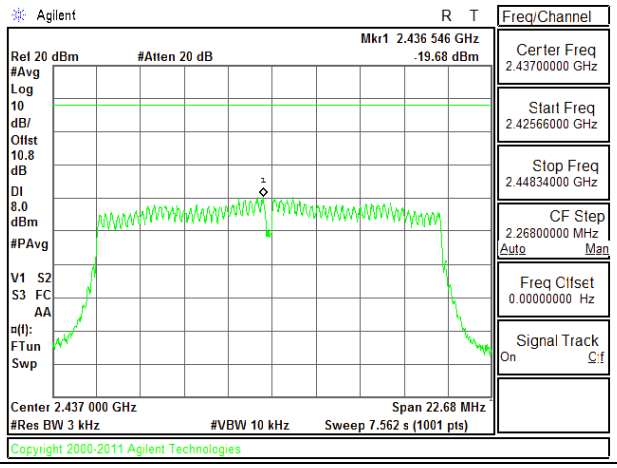
11b HT20 2.4



11g HT20 2.4



11n HT20 2.4



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9.5. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

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

TEST PROCEDURE

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

RESULTS

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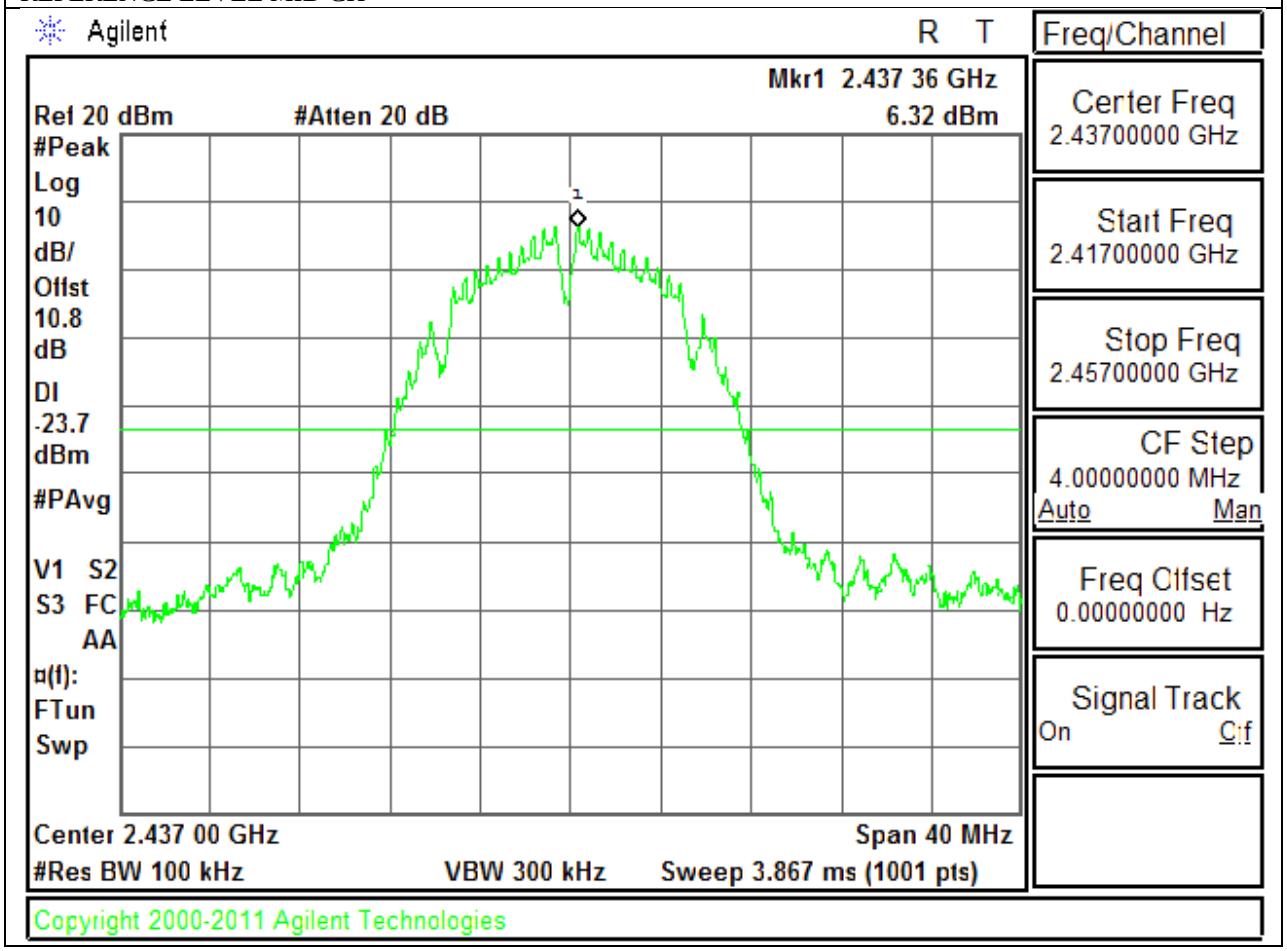
9.5.1. 802.11b MODE IN THE 2.4 GHz BAND

IN-BAND REFERENCE LEVEL

REFERENCE LEVEL MID CH



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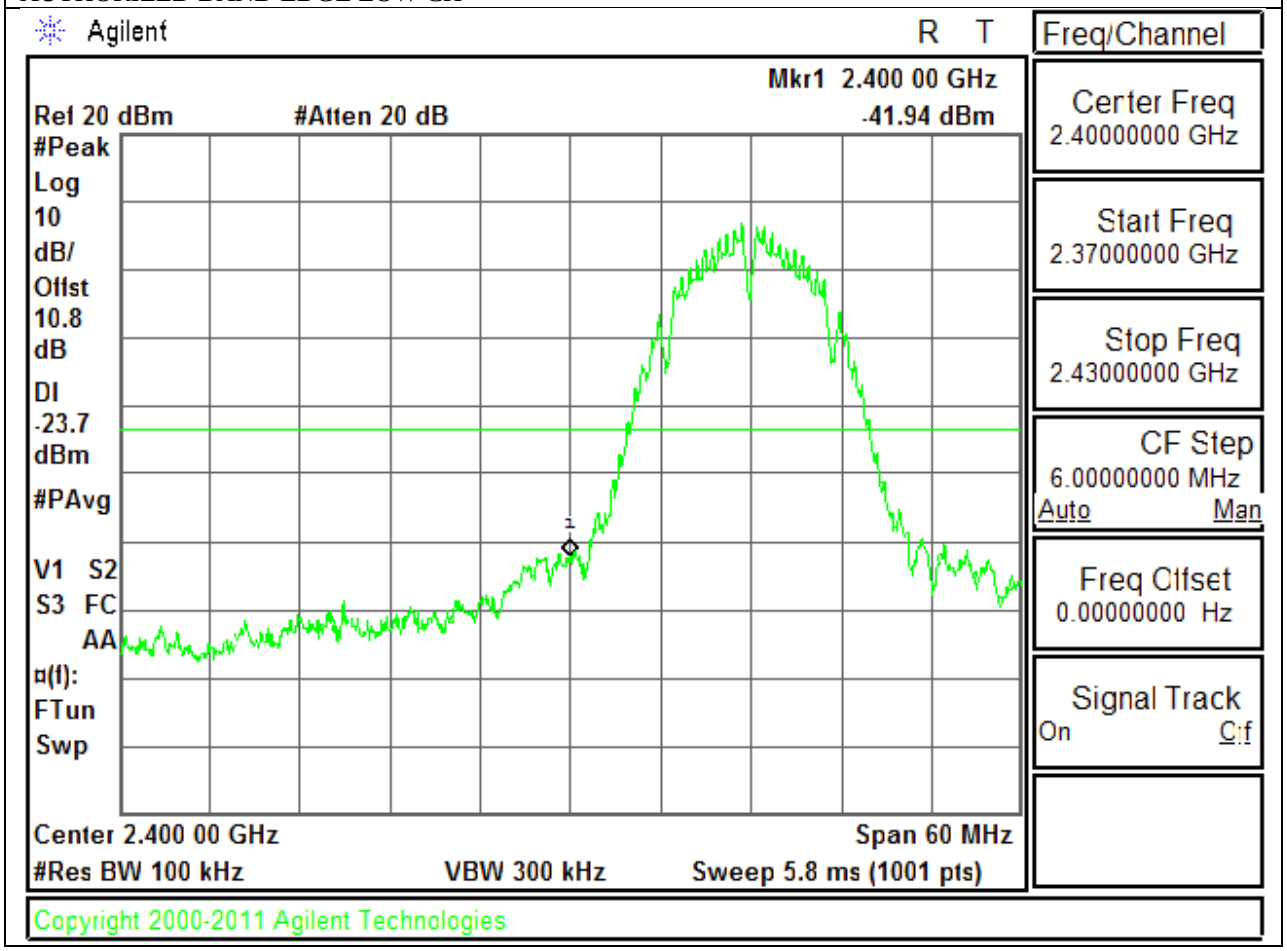
LOW CHANNEL BANDEDGE

AUTHORIZED BAND EDGE LOW CH



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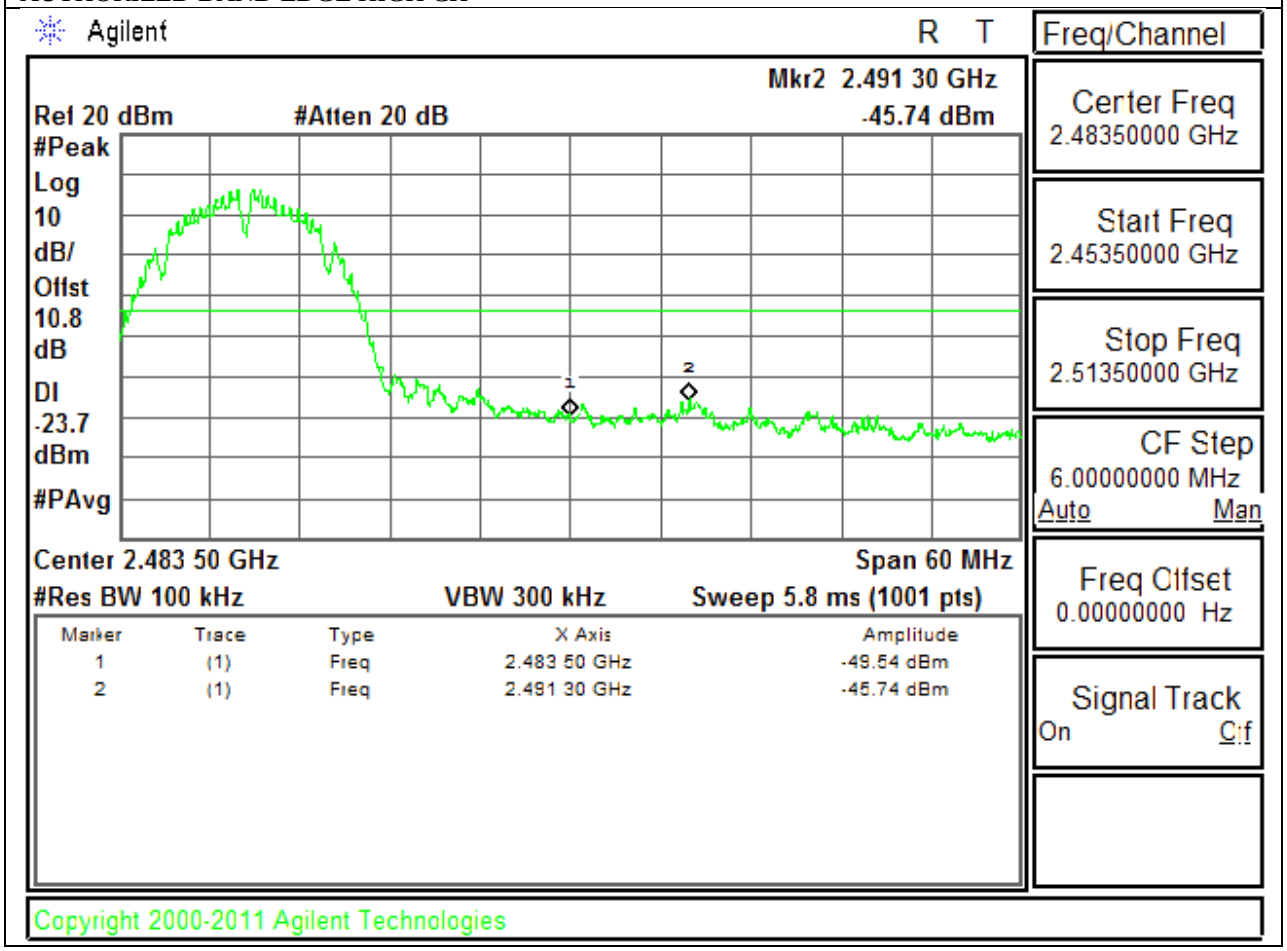
HIGH CHANNEL BANDEDGE

AUTHORIZED BAND EDGE HIGH CH



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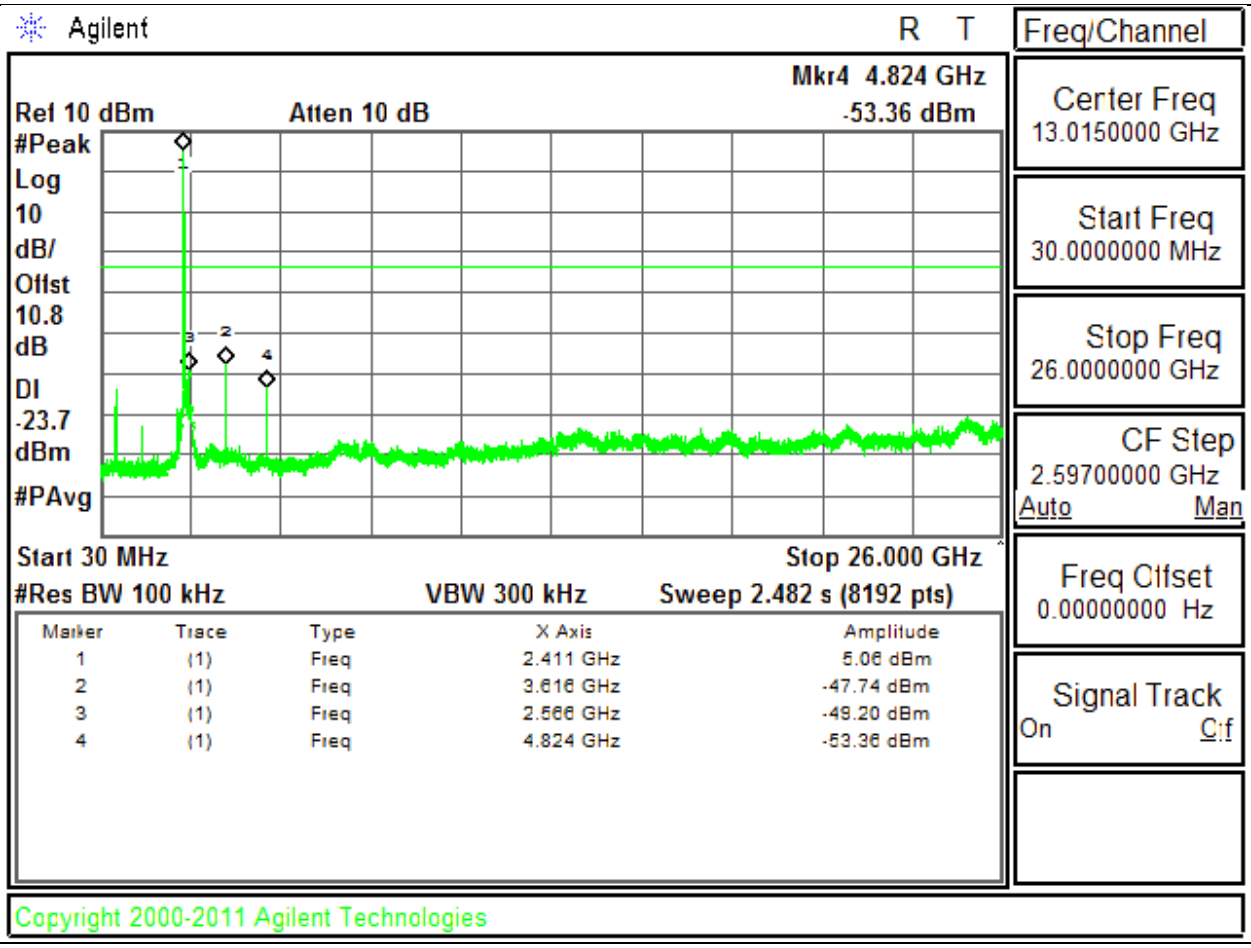
OUT-OF-BAND EMISSIONS

OUT OF BAND LOW CH



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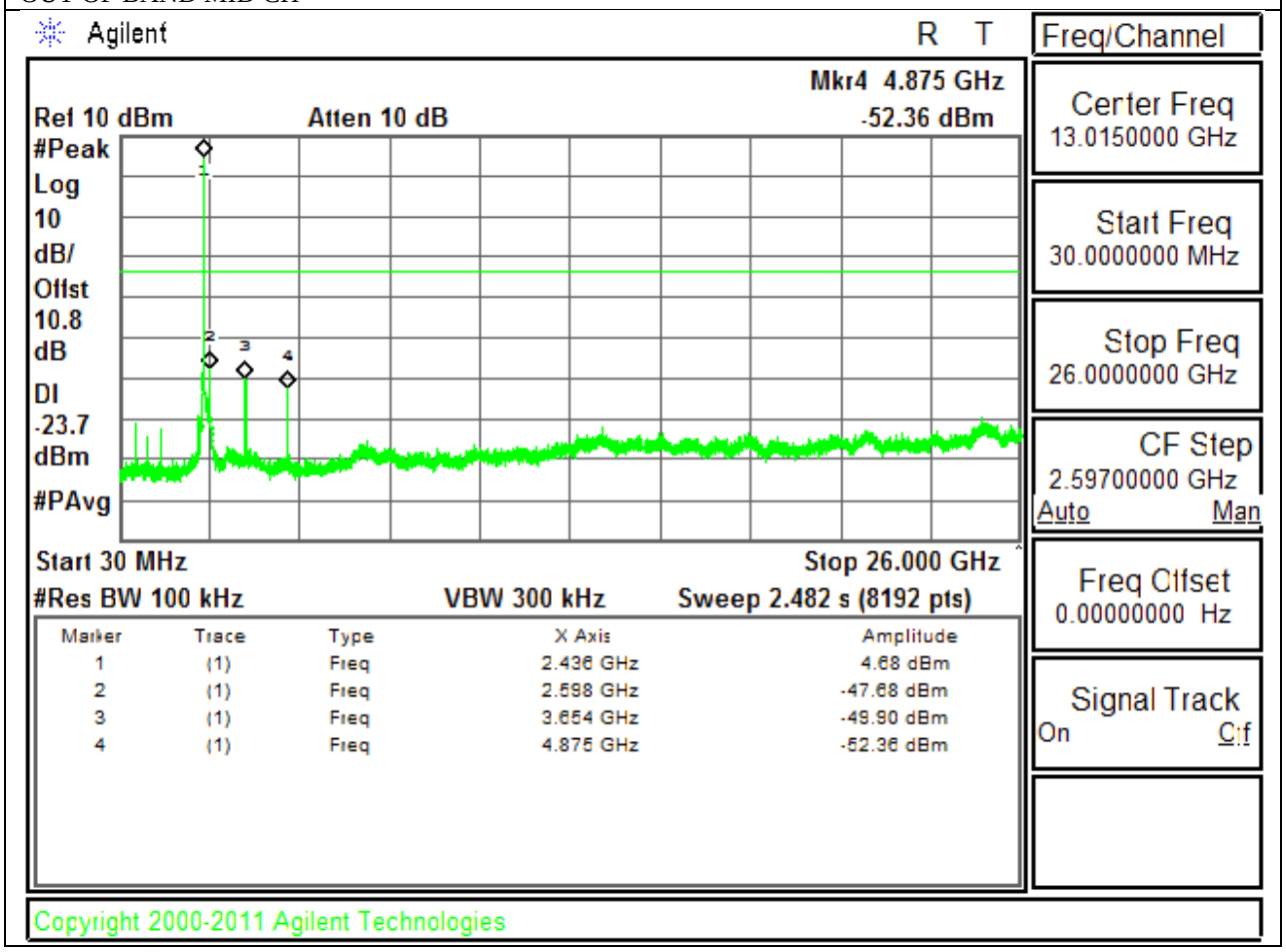
OUT OF BAND MID CH



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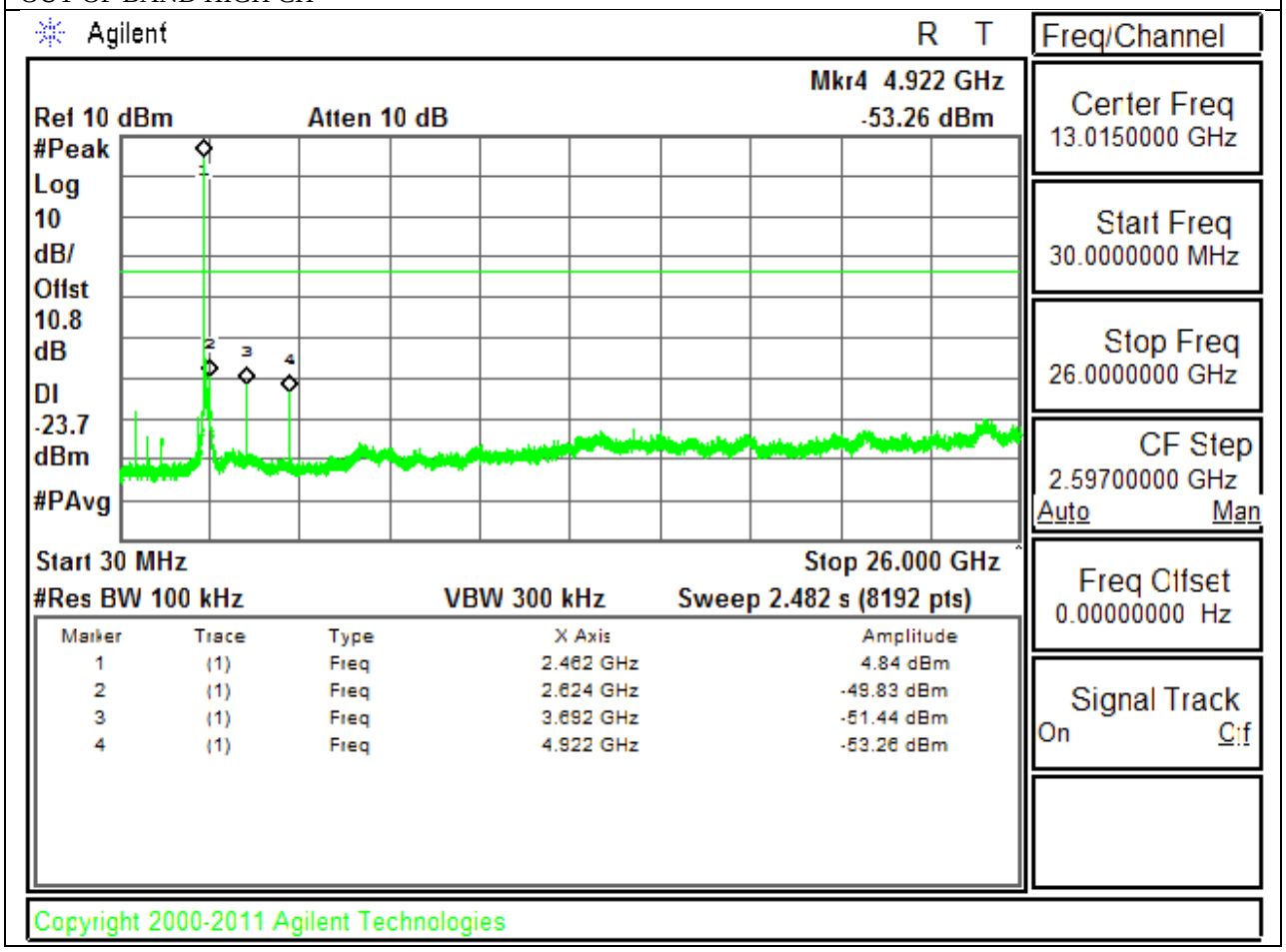
OUT OF BAND HIGH CH



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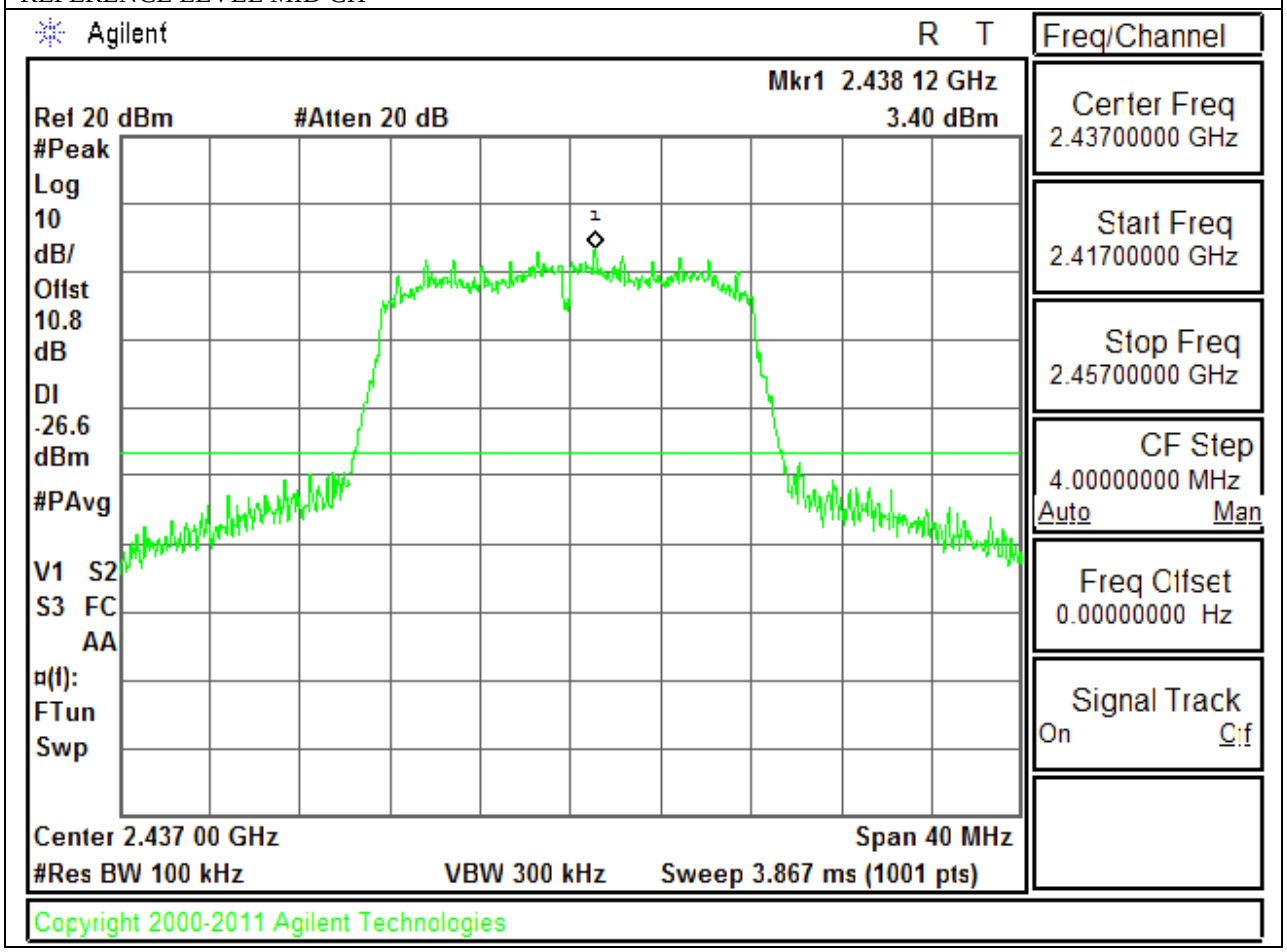
9.5.2. 802.11g MODE IN THE 2.4 GHz BAND

IN-BAND REFERENCE LEVEL

REFERENCE LEVEL MID CH



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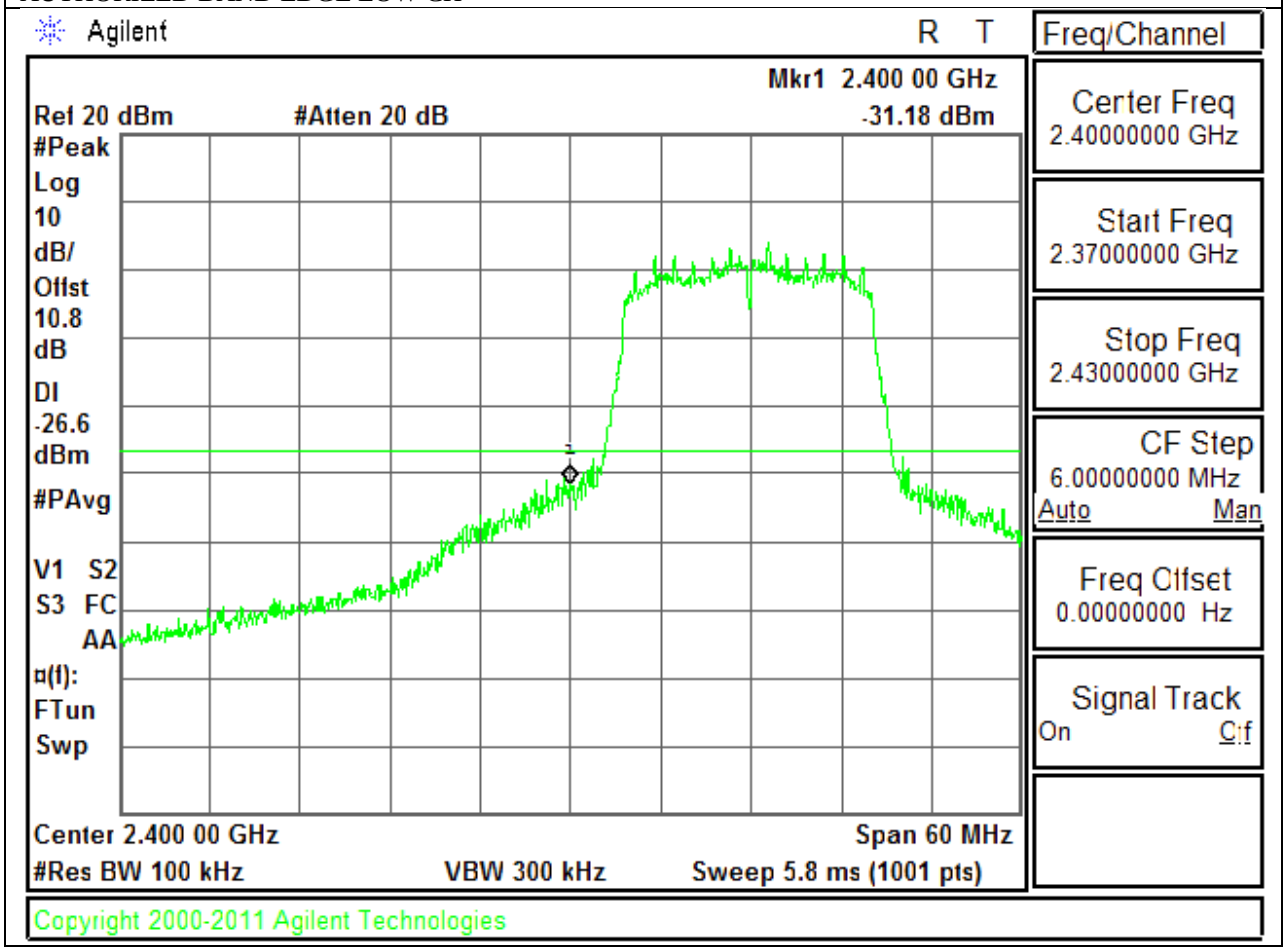
LOW CHANNEL BANDEDGE

AUTHORIZED BAND EDGE LOW CH



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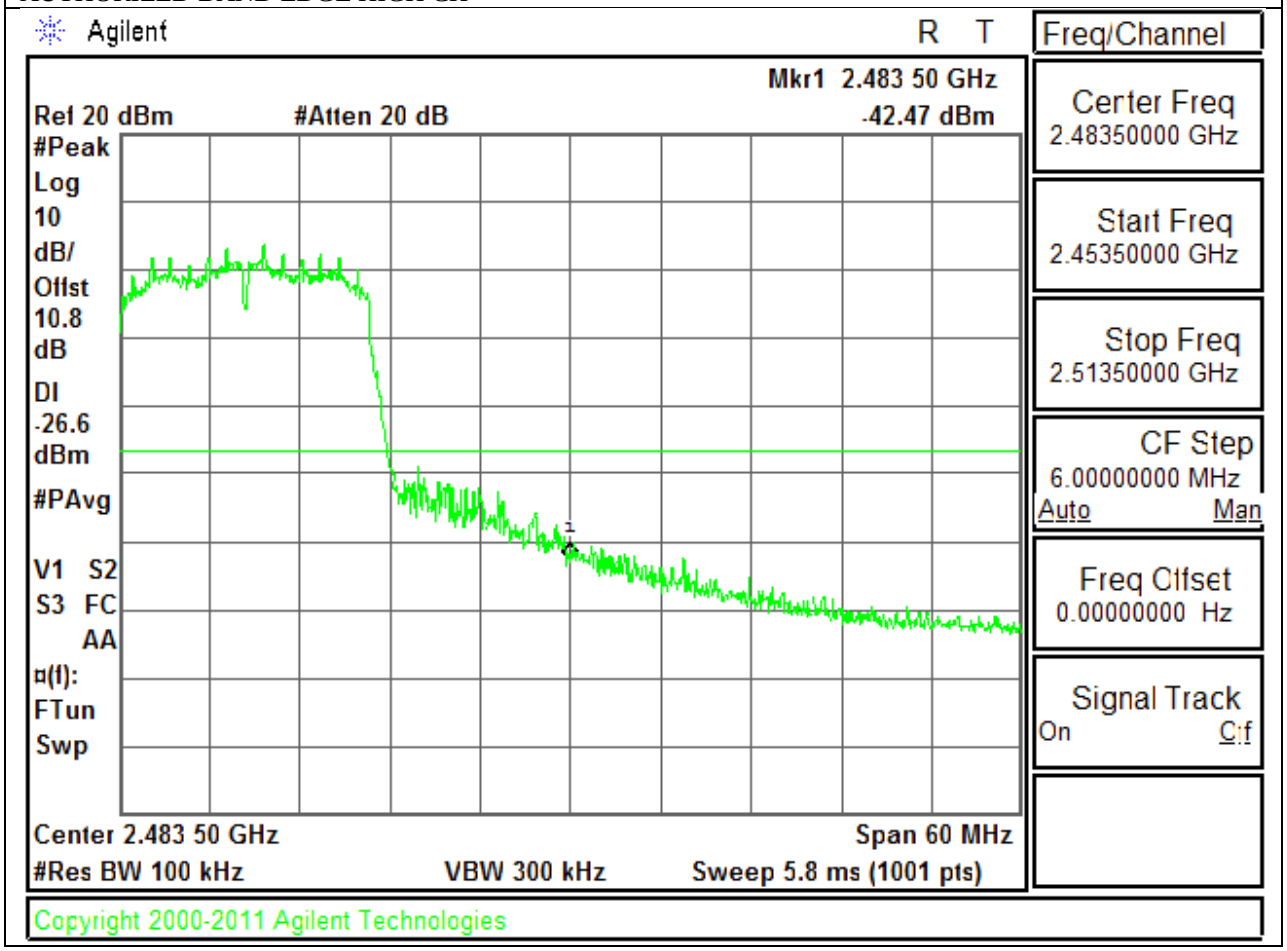
HIGH CHANNEL BANDEDGE

AUTHORIZED BAND EDGE HIGH CH



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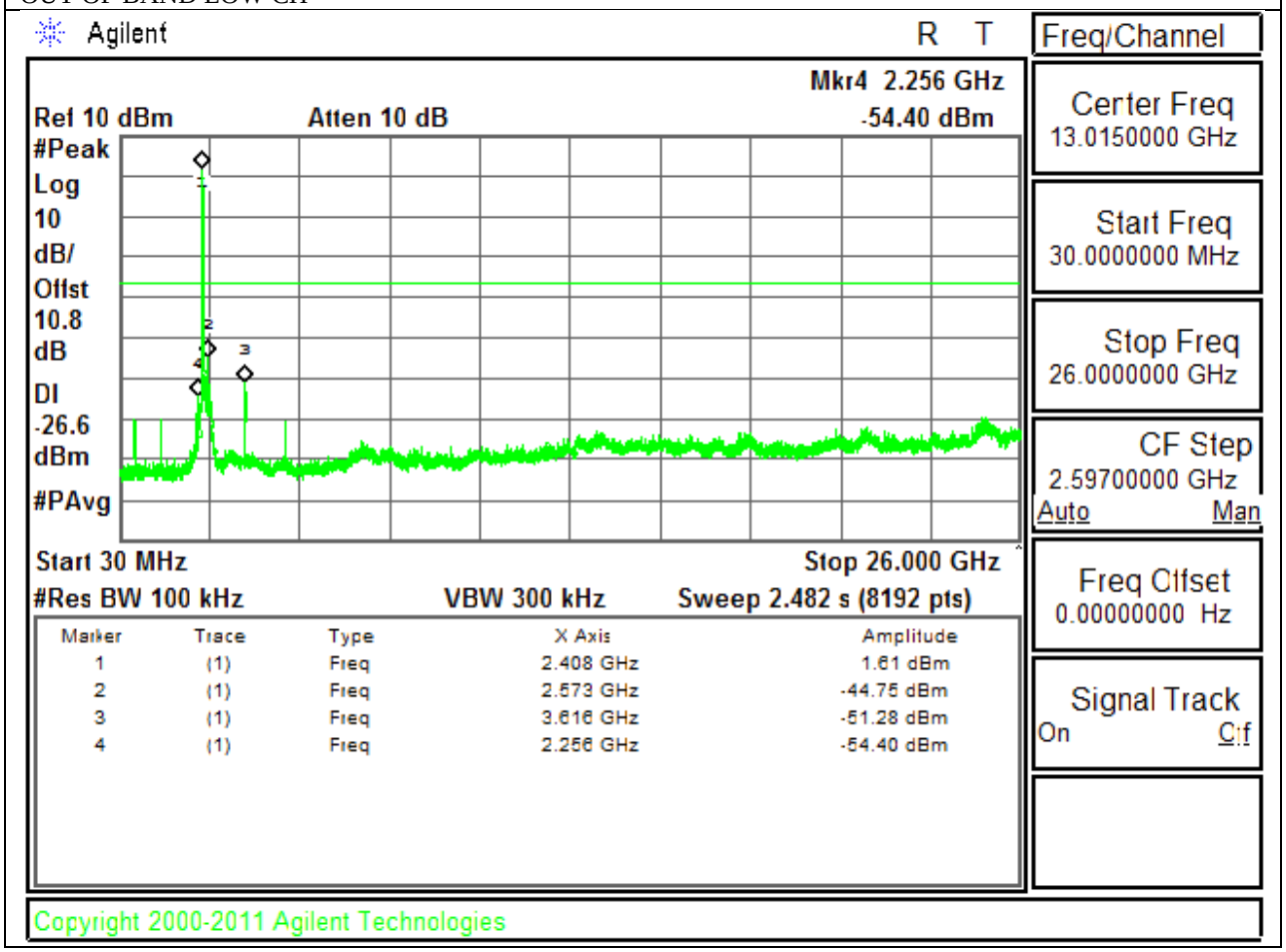
OUT-OF-BAND EMISSIONS

OUT OF BAND LOW CH



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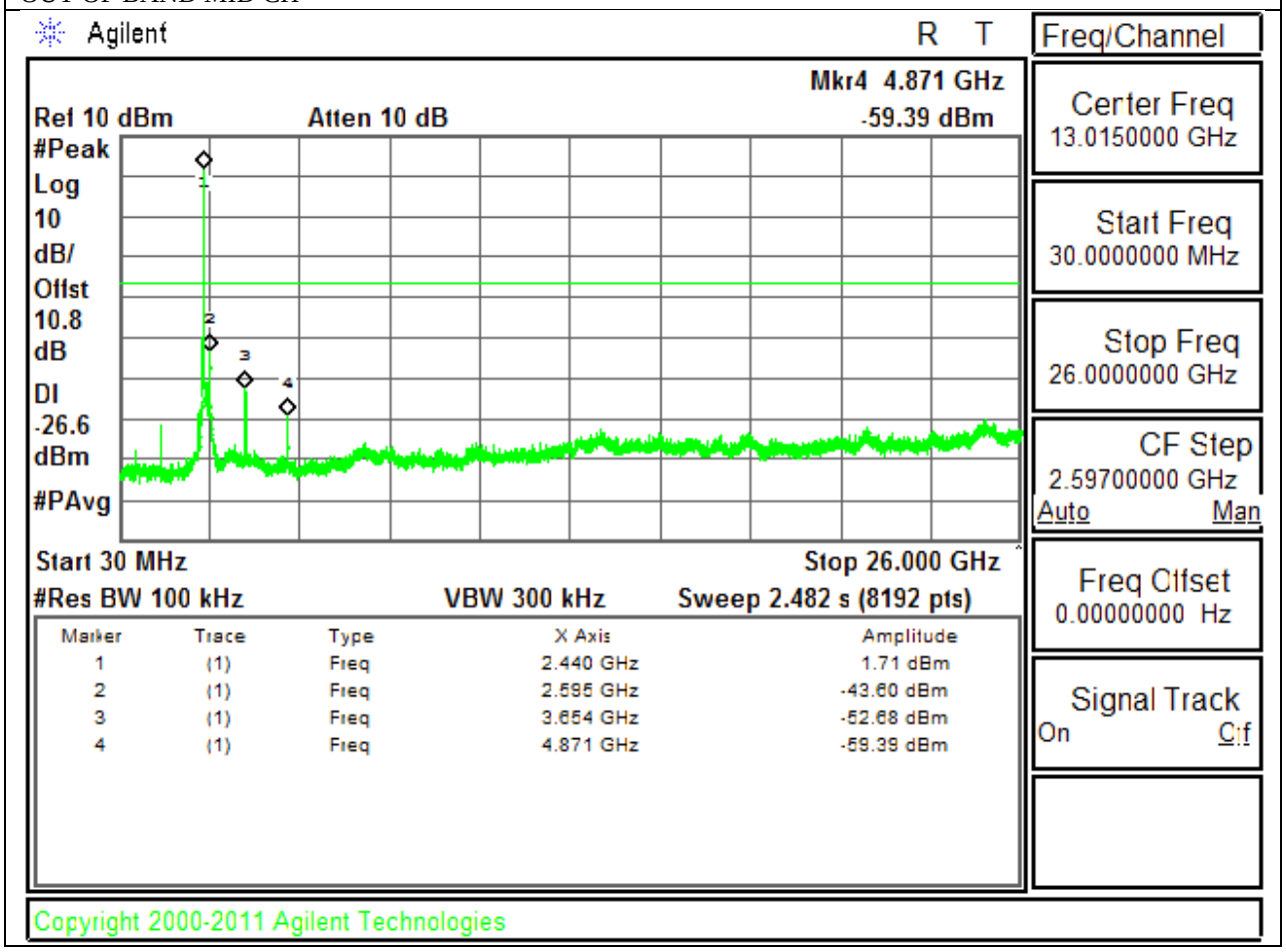
OUT OF BAND MID CH



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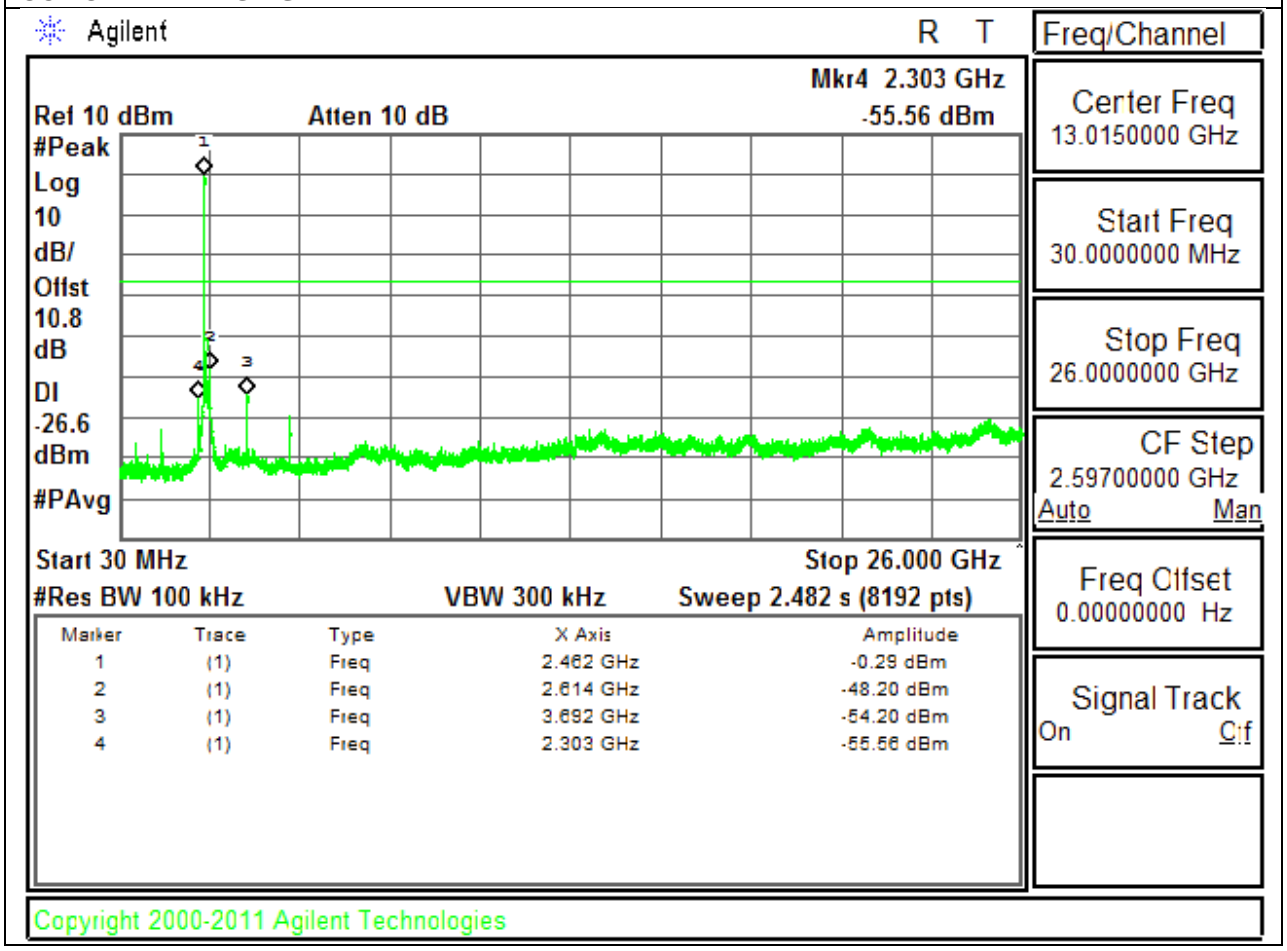
OUT OF BAND HIGH CH



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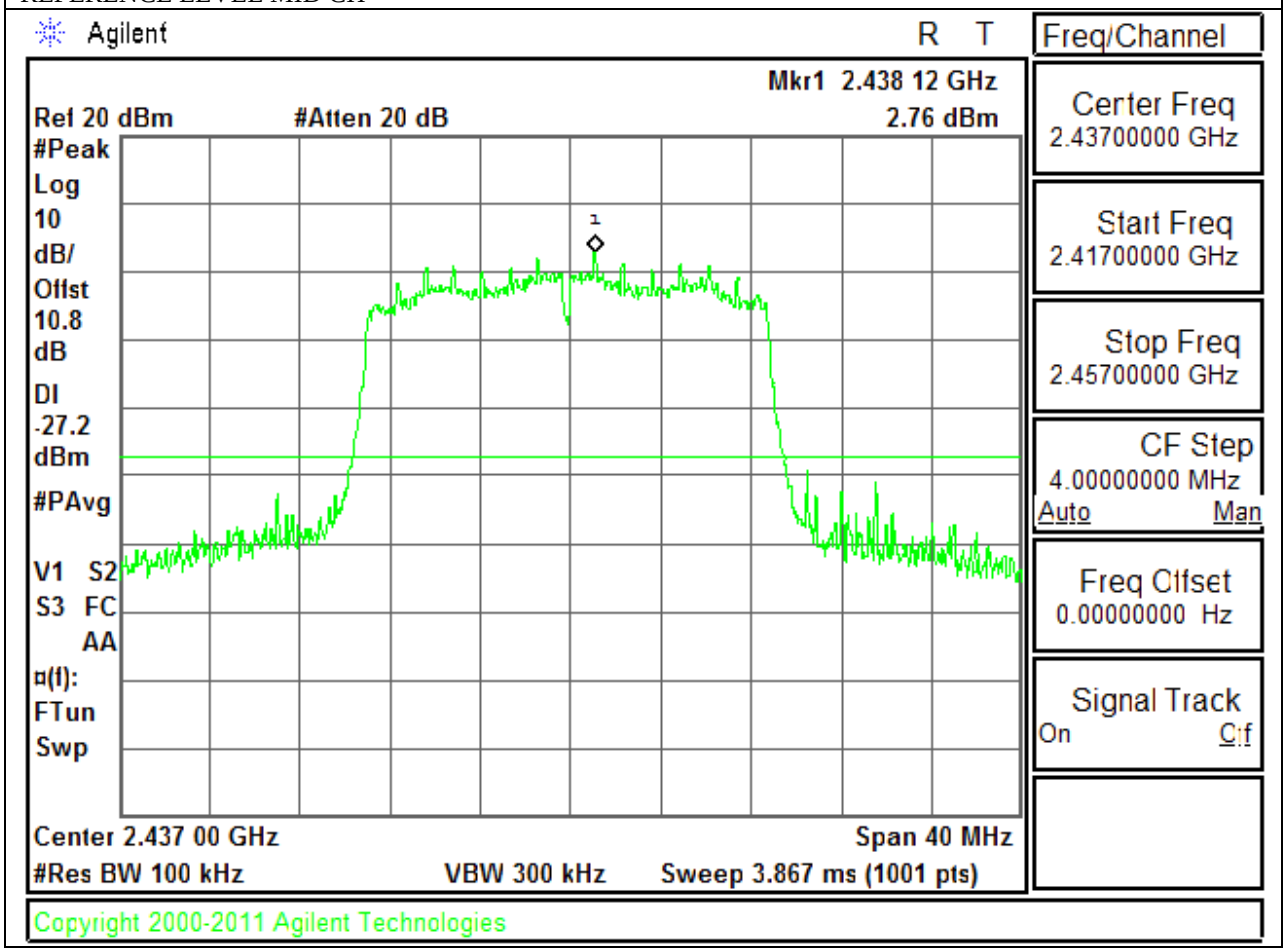
9.5.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

IN-BAND REFERENCE LEVEL

REFERENCE LEVEL MID CH



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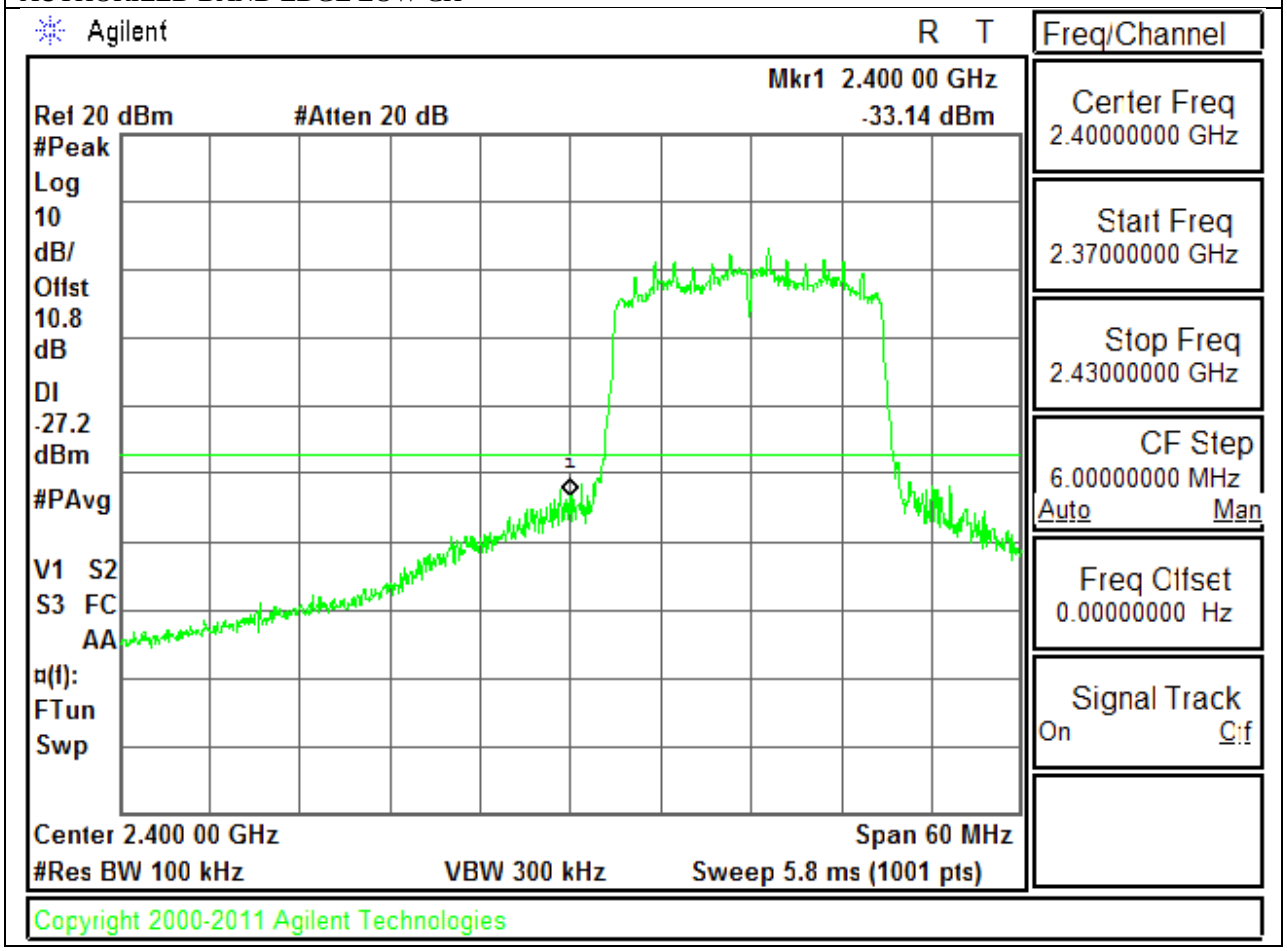
LOW CHANNEL BANDEDGE

AUTHORIZED BAND EDGE LOW CH



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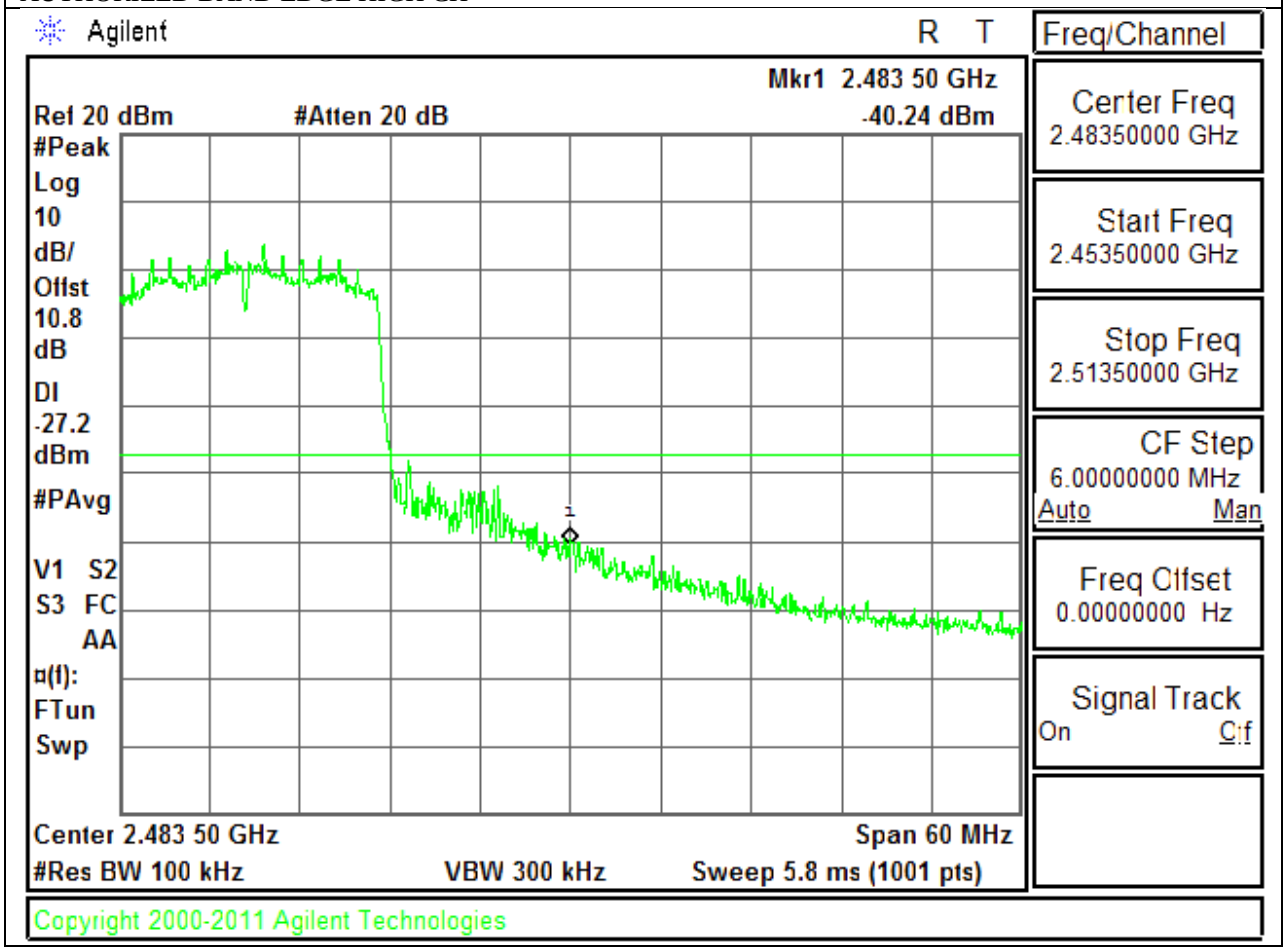
HIGH CHANNEL BANDEDGE

AUTHORIZED BAND EDGE HIGH CH



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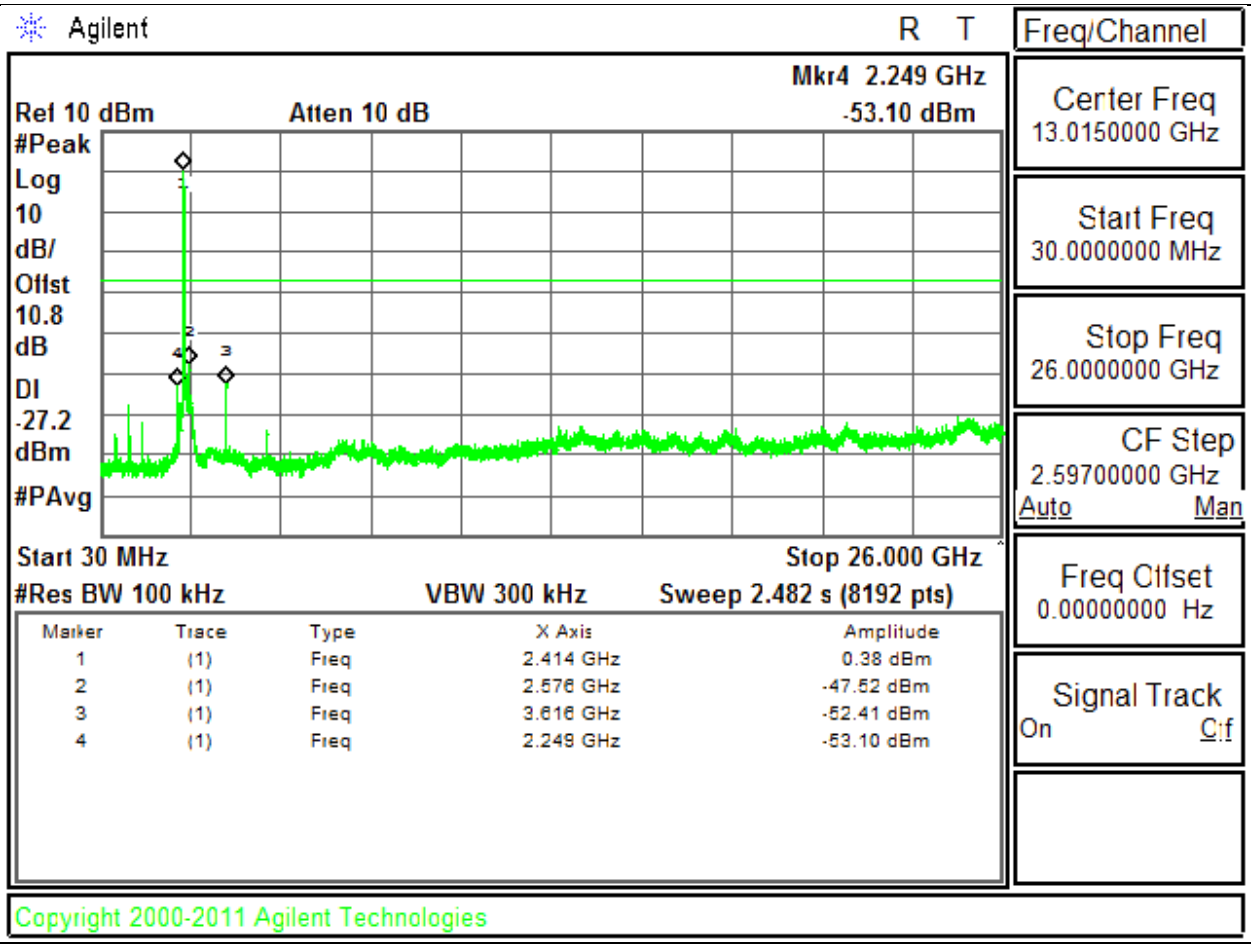
OUT-OF-BAND EMISSIONS

OUT OF BAND LOW CH



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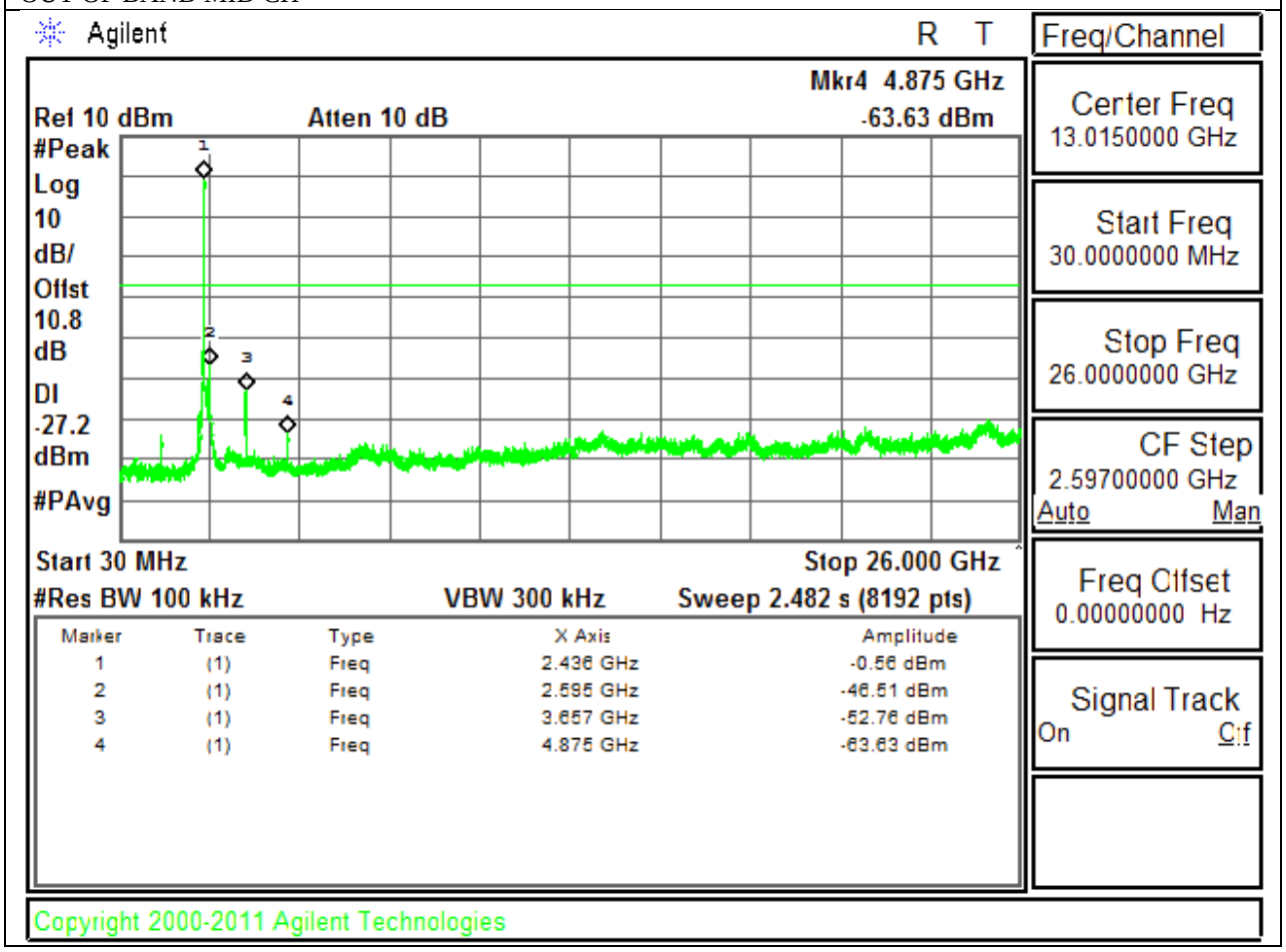
OUT OF BAND MID CH



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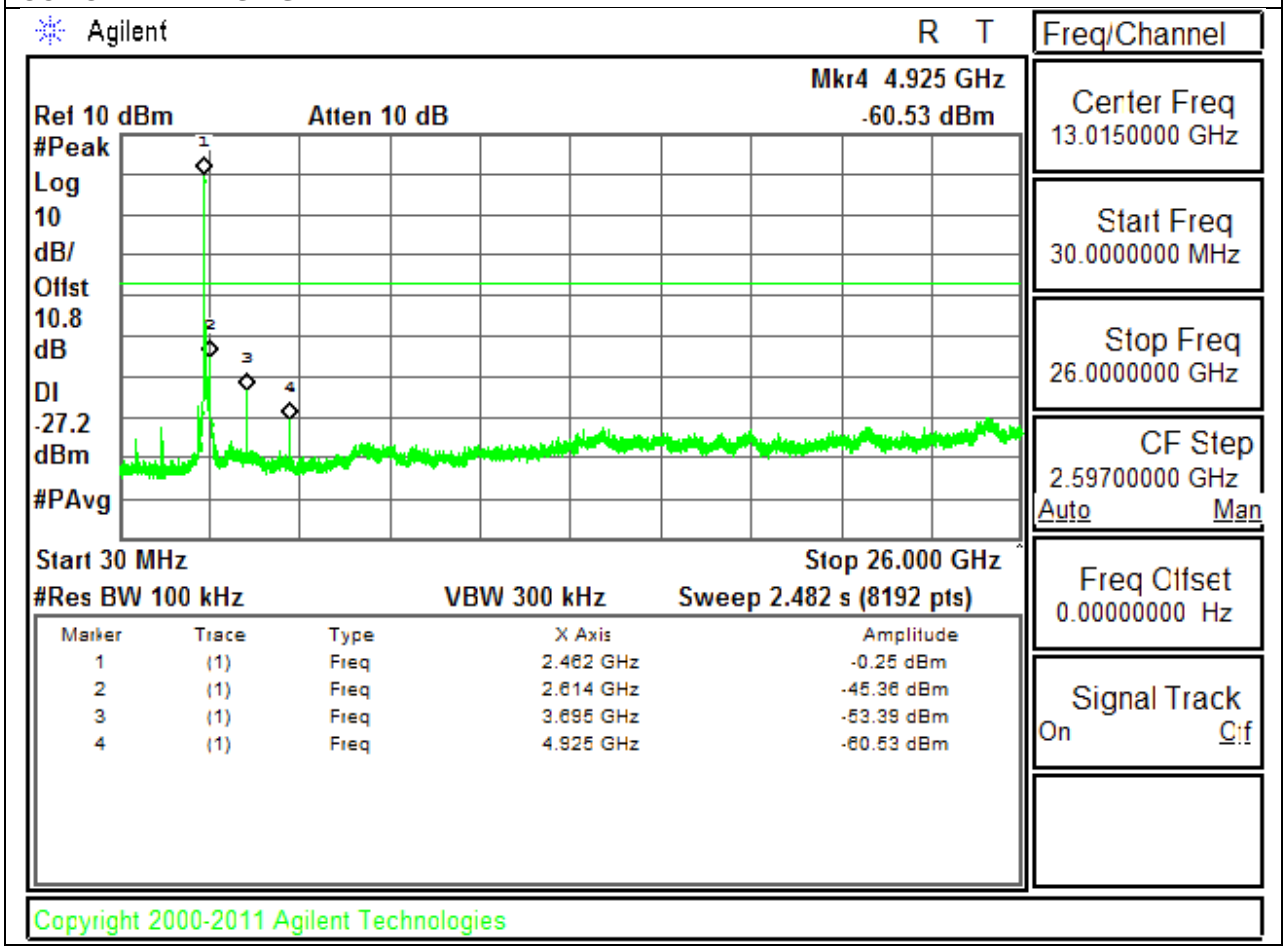
OUT OF BAND HIGH CH



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10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN Clause 8.9 (Transmitter)

IC RSS-GEN Clause 7(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.

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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= 10log (1/x) For this sample B mode = 0dB (duty cycle >98%); G mode = 0.15dB; N mode = 0.16dB.

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.

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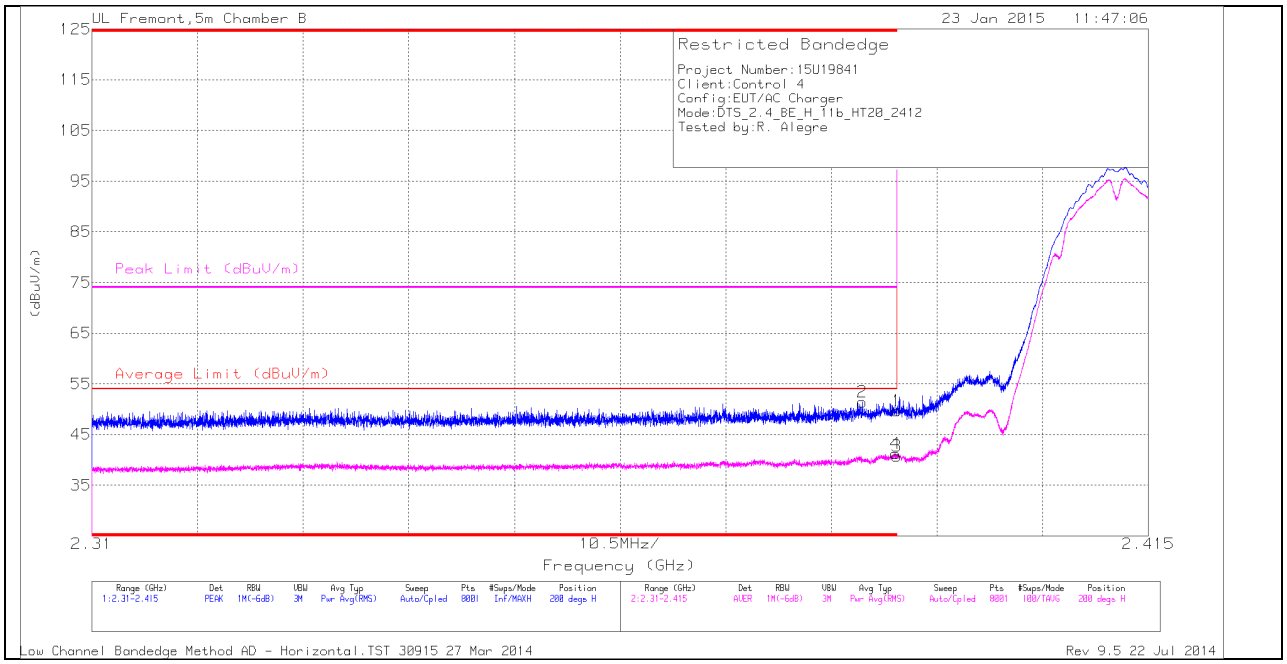
10.2. TRANSMITTER ABOVE 1 GHz (C4-WALL7)

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 T345 (dB/m)	Amp/Cbl/Flt 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	40.14	PK	32.1	-22.6	0	49.64	-	-	74	-24.36	200	208	H
2	* 2.387	41.88	PK	32.1	-22.6	0	51.38	-	-	74	-22.62	200	208	H
3	* 2.39	31.19	RMS	32.1	-22.6	0	40.69	54	-13.31	-	-	200	208	H
4	* 2.39	31.73	RMS	32.1	-22.6	0	41.23	54	-12.77	-	-	200	208	H

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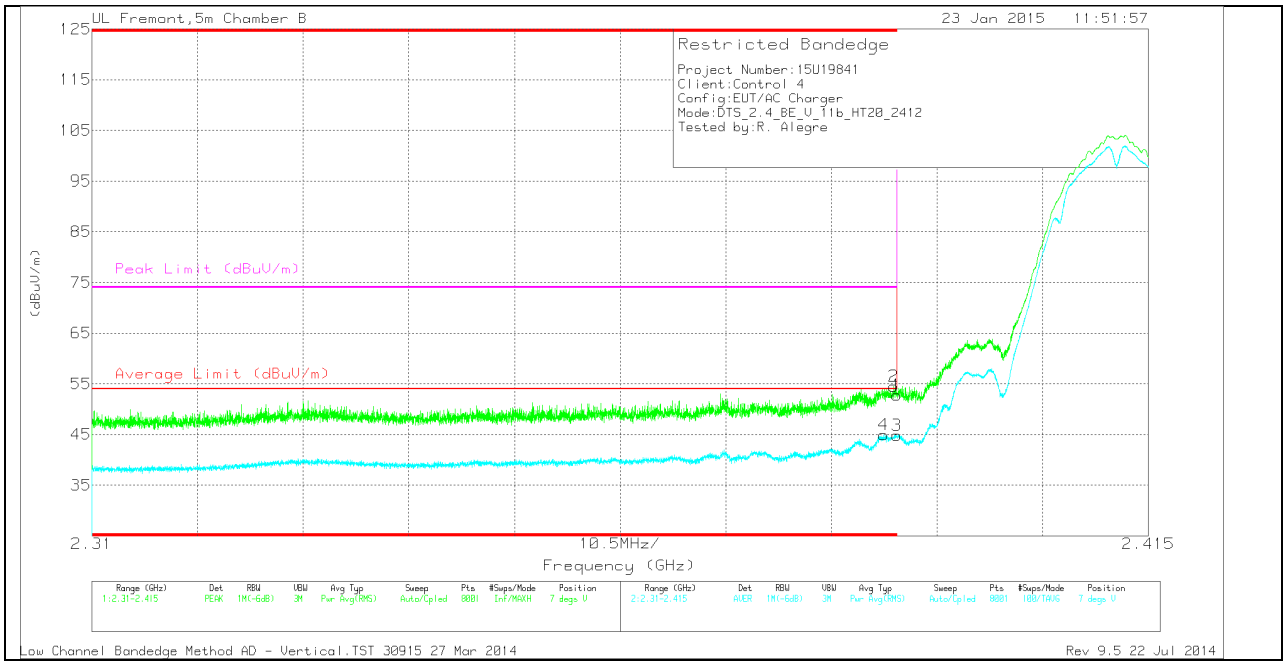
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	43.27	PK	32.1	-22.6	0	52.77	-	-	74	-21.23	7	215	V
2	* 2.39	45.03	PK	32.1	-22.6	0	54.53	-	-	74	-19.47	7	215	V
3	* 2.39	35.35	RMS	32.1	-22.6	0	44.85	54	-9.15	-	-	7	215	V
4	* 2.389	35.46	RMS	32.1	-22.6	0	44.96	54	-9.04	-	-	7	215	V

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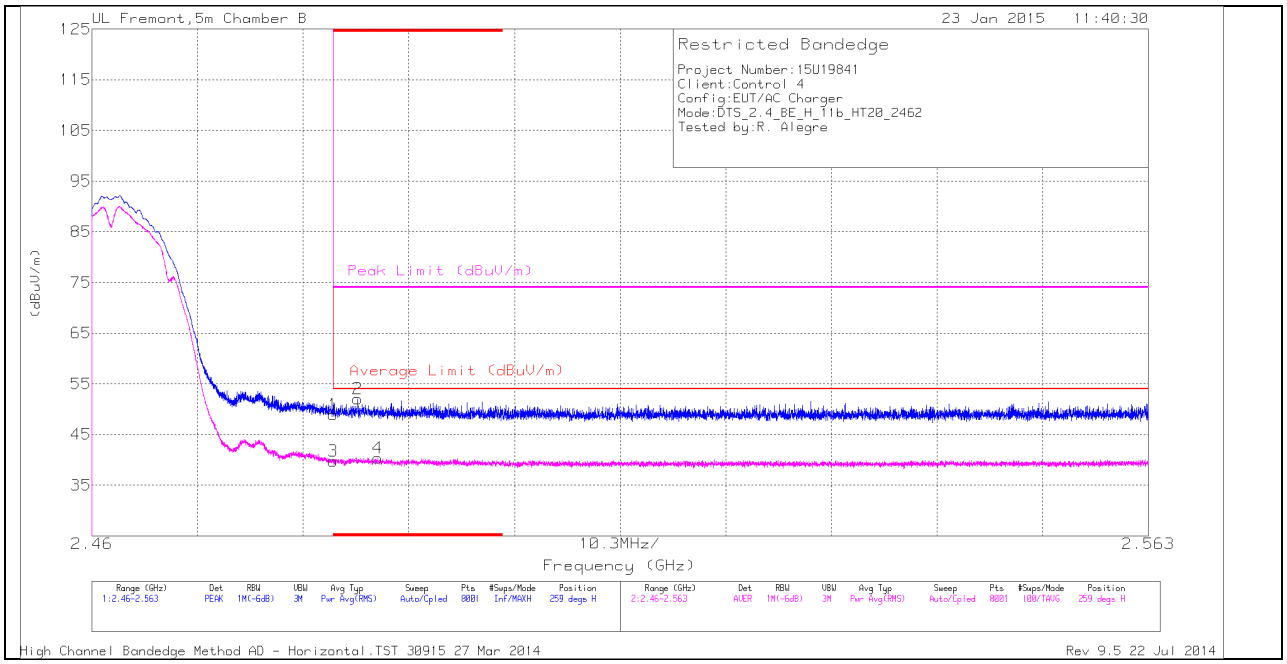
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	38.96	PK	32.4	-22.4	0	48.96	-	-	74	-25.04	259	269	H
2	* 2.486	42.07	PK	32.4	-22.4	0	52.07	-	-	74	-21.93	259	269	H
3	* 2.484	29.73	RMS	32.4	-22.4	0	39.73	54	-14.27	-	-	259	269	H
4	* 2.488	30.37	RMS	32.4	-22.4	0	40.37	54	-13.63	-	-	259	269	H

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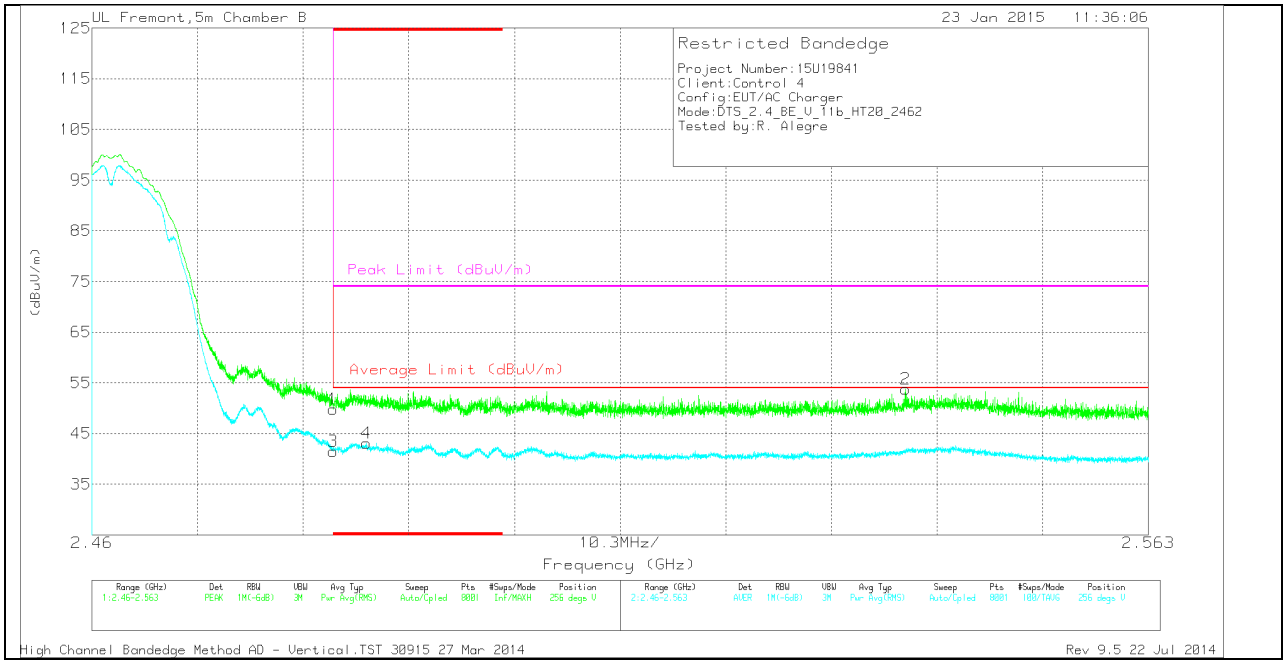
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	39.85	PK	32.4	-22.4	0	49.85	-	-	74	-24.15	256	256	V
3	* 2.484	31.5	RMS	32.4	-22.4	0	41.5	54	-12.5	-	-	256	256	V
4	* 2.487	33.07	RMS	32.4	-22.4	0	43.07	54	-10.93	-	-	256	256	V
2	2.539	43.62	PK	32.5	-22.4	0	53.72	-	-	74	-20.28	256	256	V

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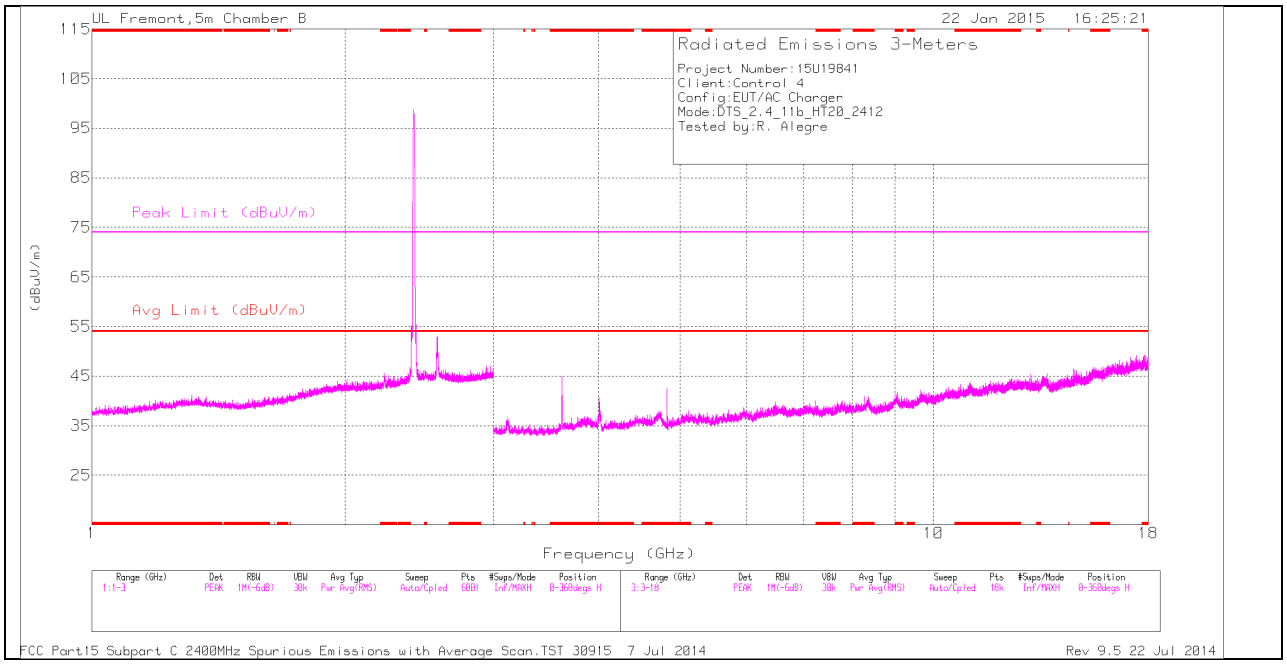
HARMONICS AND SPURIOUS EMISSIONS

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.

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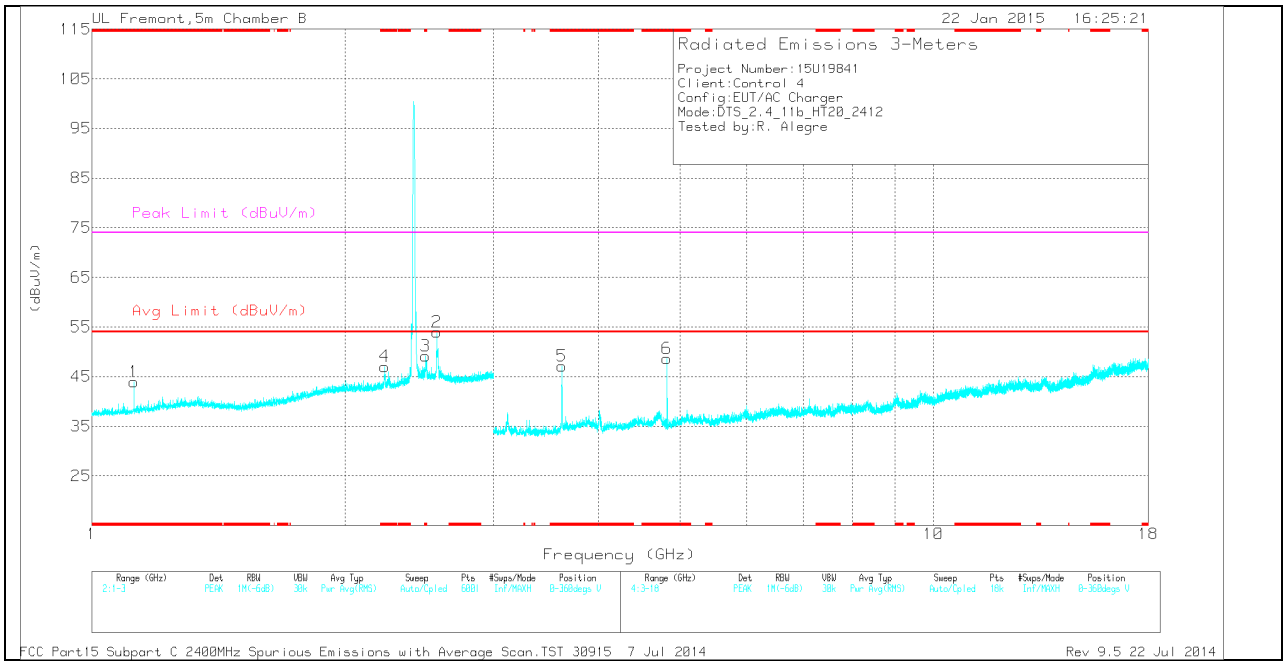
LOW CHANNEL VERTICAL



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

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.122	40.78	PK	27.6	-24.4	0	43.98	-	-	74	-30.02	0-360	200	V
4	* 2.229	38.56	PK	31.4	-22.9	0	47.06	-	-	74	-26.94	0-360	100	V
3	* 2.493	39.14	PK	32.4	-22.4	0	49.14	-	-	74	-24.86	0-360	200	V
5	* 3.618	44.65	PK	33.2	-30.7	0	47.15	-	-	74	-26.85	0-360	101	V
6	* 4.824	44.17	PK	34.2	-29.7	0	48.67	-	-	74	-25.33	0-360	200	V
2	2.57	43.88	PK	32.5	-22.4	0	53.98	-	-	-	-	0-360	200	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 3.618	51.32	PK2	33.2	-30.7	0	53.82	-	-	74	-20.18	360	138	V
* 3.619	45.87	MAv1	33.2	-30.7	0	48.37	54	-5.63	-	-	360	138	V
* 4.824	48.47	PK2	34.2	-29.7	0	52.97	-	-	74	-21.03	194	206	V
* 4.824	44.92	MAv1	34.2	-29.7	0	49.42	54	-4.58	-	-	194	206	V
2.572	49.26	PK2	32.5	-22.4	0	59.36	-	-	-	-	33	232	V
2.572	35.81	MAv1	32.5	-22.4	0	45.91	54	-	-	-	33	232	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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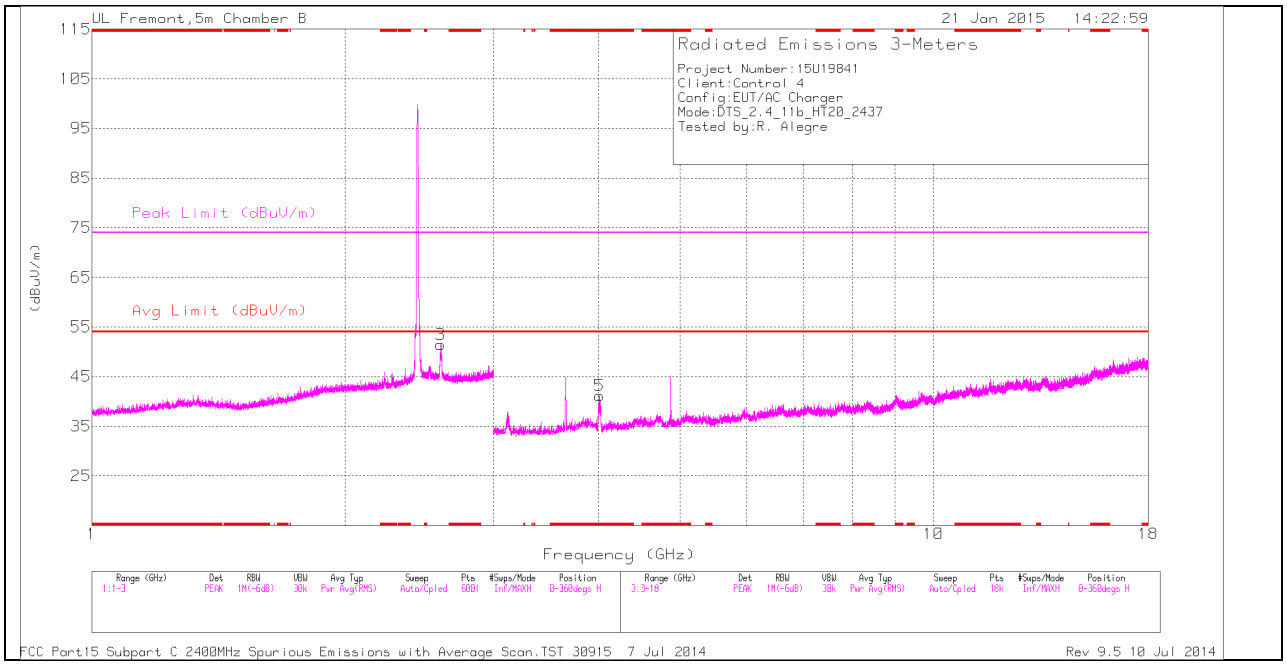
MID CHANNEL HORIZONTAL



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

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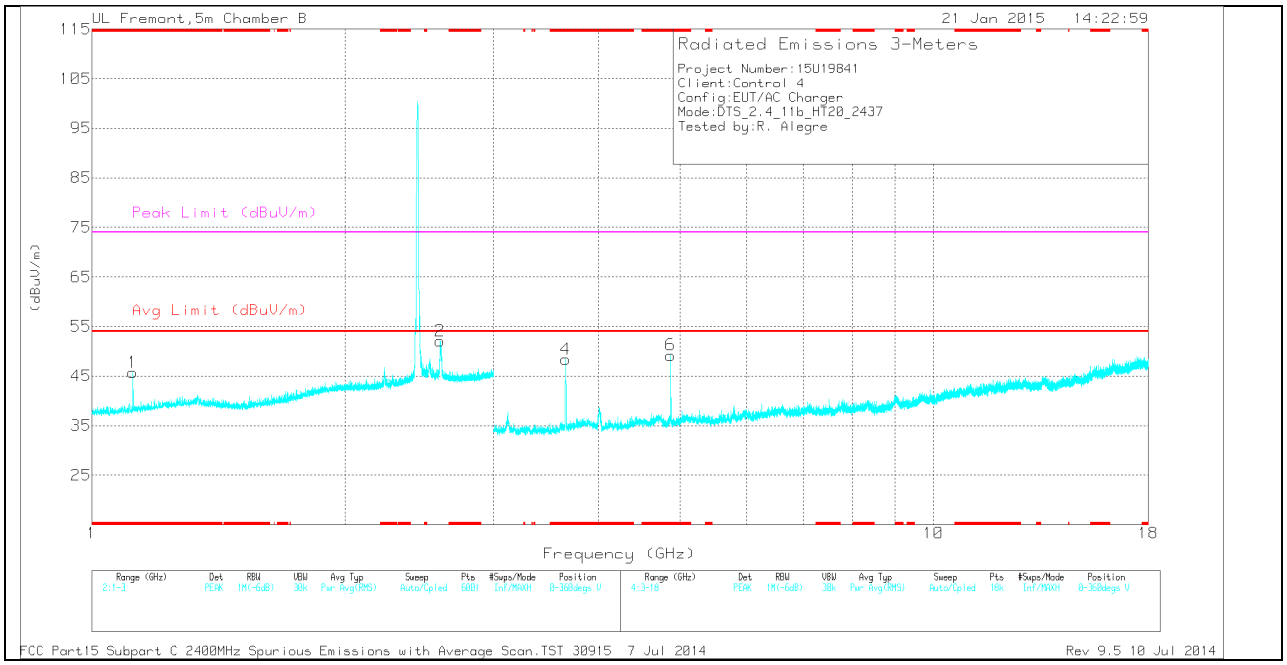
MID CHANNEL VERTICAL



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

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.119	42.58	PK	27.5	-24.4	0	45.68	-	-	74	-28.32	0-360	199	V
5	* 4.008	38.56	PK	33.6	-31	0	41.16	-	-	74	-32.84	0-360	199	H
4	* 3.655	45.88	PK	33.2	-30.7	0	48.38	-	-	74	-25.62	0-360	102	V
6	* 4.873	45.42	PK	34.2	-30.4	0	49.22	-	-	74	-24.78	0-360	199	V
2	2.593	42.03	PK	32.5	-22.4	0	52.13	-	-	-	-	0-360	199	V
3	2.595	41.31	PK	32.5	-22.4	0	51.41	-	-	-	-	0-360	101	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 1.12	43.6	PK2	27.5	-24.4	0	46.7	-	-	74	-27.3	335	199	V
* 1.117	31.85	MAv1	27.5	-24.4	0	34.95	54	-19.05	-	-	335	199	V
* 3.655	50.72	PK2	33.2	-30.7	0	53.22	-	-	74	-20.78	211	134	V
* 3.654	45.28	MAv1	33.2	-30.7	0	47.78	54	-6.22	-	-	211	134	V
* 4.874	50.37	PK2	34.2	-30.4	0	54.17	-	-	74	-19.83	14	195	V
* 4.874	47.15	MAv1	34.2	-30.4	0	50.95	54	-3.05	-	-	14	195	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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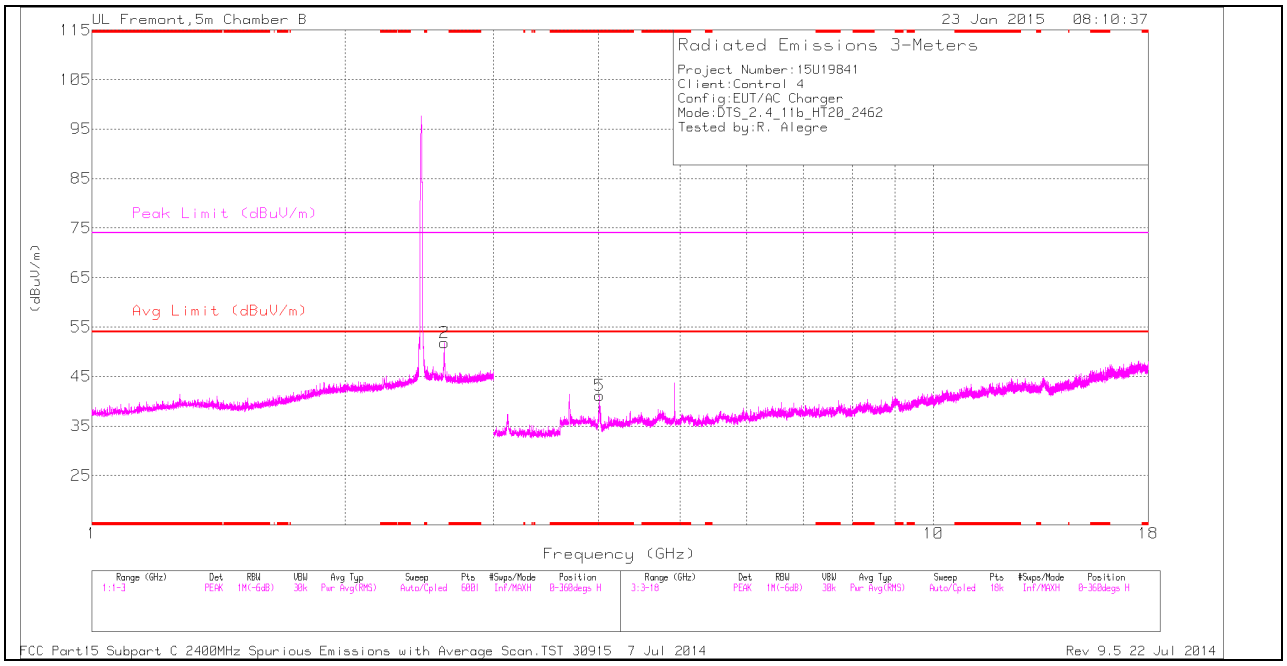
HIGH CHANNEL HORIZONTAL



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

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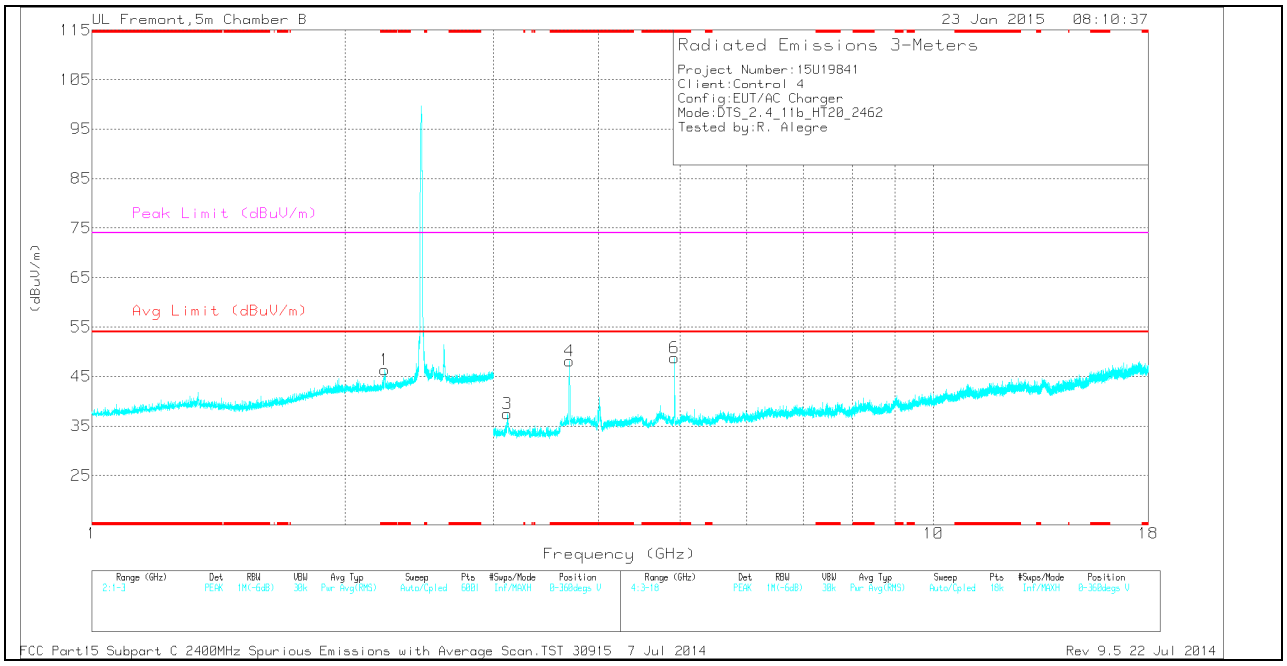
HIGH CHANNEL VERTICAL



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

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 2.228	37.85	PK	31.4	-22.9	0	46.35	-	-	74	-27.65	0-360	101	V
5	* 4.012	38.58	PK	33.6	-31	0	41.18	-	-	74	-32.82	0-360	101	H
4	* 3.692	45.91	PK	33.3	-31.1	0	48.11	-	-	74	-25.89	0-360	101	V
6	* 4.923	45.1	PK	34.2	-30.5	0	48.8	-	-	74	-25.2	0-360	199	V
2	2.623	41.86	PK	32.4	-22.4	0	51.86	-	-	-	-	0-360	199	H
3	3.117	35.89	PK	32.8	-31.2	0	37.49	-	-	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 3.693	49.53	PK2	33.3	-31.1	0	51.73	-	-	74	-22.27	177	132	V
* 3.694	43.9	MAv1	33.3	-31.1	0	46.1	54	-7.9	-	-	177	132	V
* 4.924	49.34	PK2	34.2	-30.5	0	53.04	-	-	74	-20.96	16	165	V
* 4.924	45.57	MAv1	34.2	-30.5	0	49.27	54	-4.73	-	-	16	165	V
2.623	47.96	PK2	32.4	-22.4	0	57.96	-	-	-	-	245	181	H
2.624	34.59	MAv1	32.4	-22.4	0	44.59	54	-9.41	-	-	245	181	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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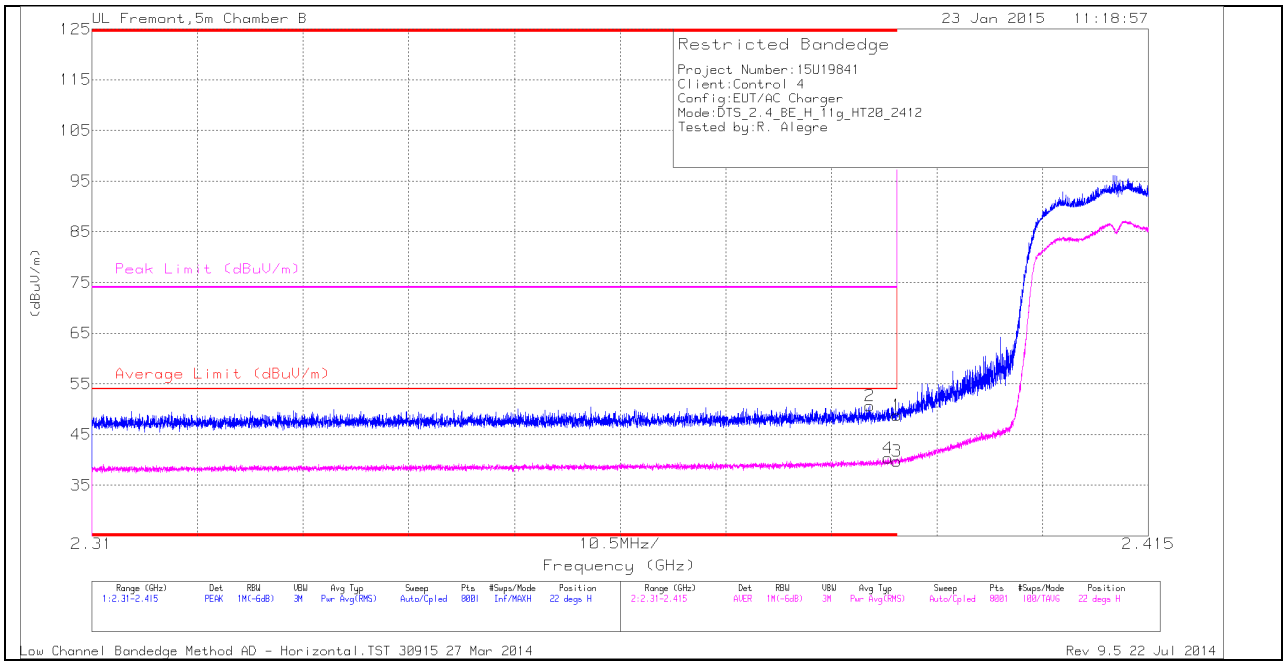
10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	39.34	PK	32.1	-22.6	0	48.84	-	-	74	-25.16	22	325	H
2	* 2.387	41.11	PK	32.1	-22.6	0	50.61	-	-	74	-23.39	22	325	H
3	* 2.39	30.08	RMS	32.1	-22.6	.15	39.73	54	-14.27	-	-	22	325	H
4	* 2.389	30.71	RMS	32.1	-22.6	.15	40.36	54	-13.64	-	-	22	325	H

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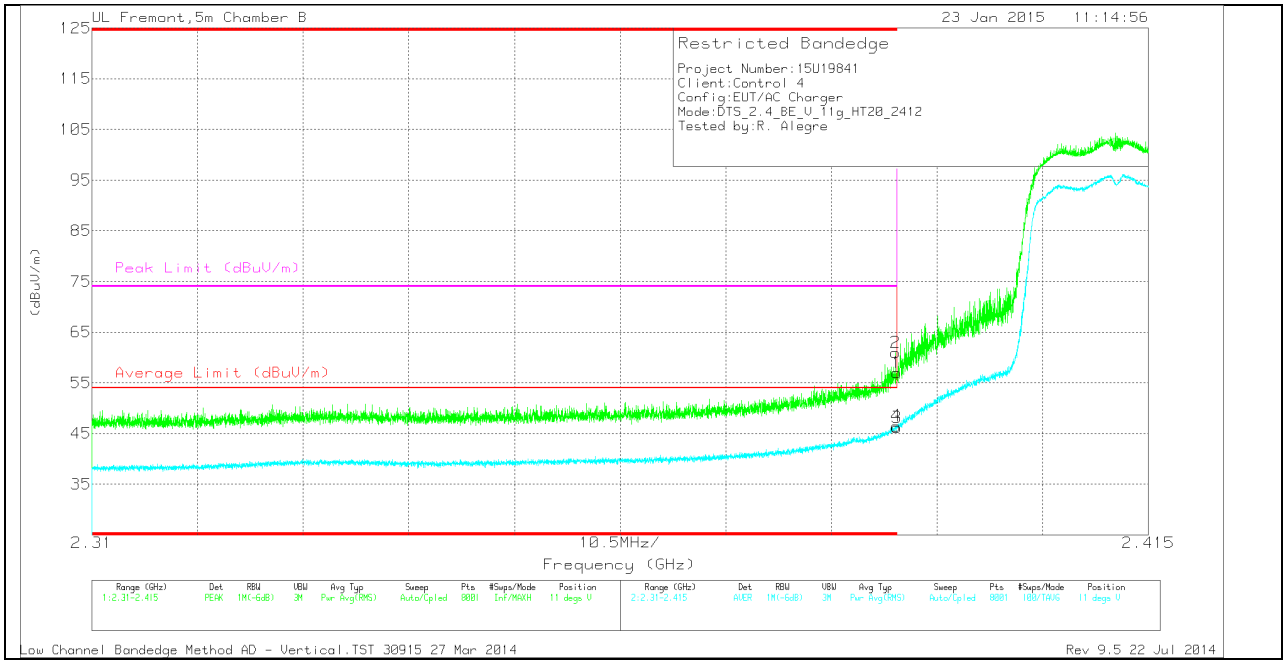
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	47.47	PK	32.1	-22.6	0	56.97	-	-	74	-17.03	11	213	V
2	* 2.39	51.51	PK	32.1	-22.6	0	61.01	-	-	74	-12.99	11	213	V
3	* 2.39	36.59	RMS	32.1	-22.6	.15	46.24	54	-7.76	-	-	11	213	V
4	* 2.39	36.85	RMS	32.1	-22.6	.15	46.5	54	-7.5	-	-	11	213	V

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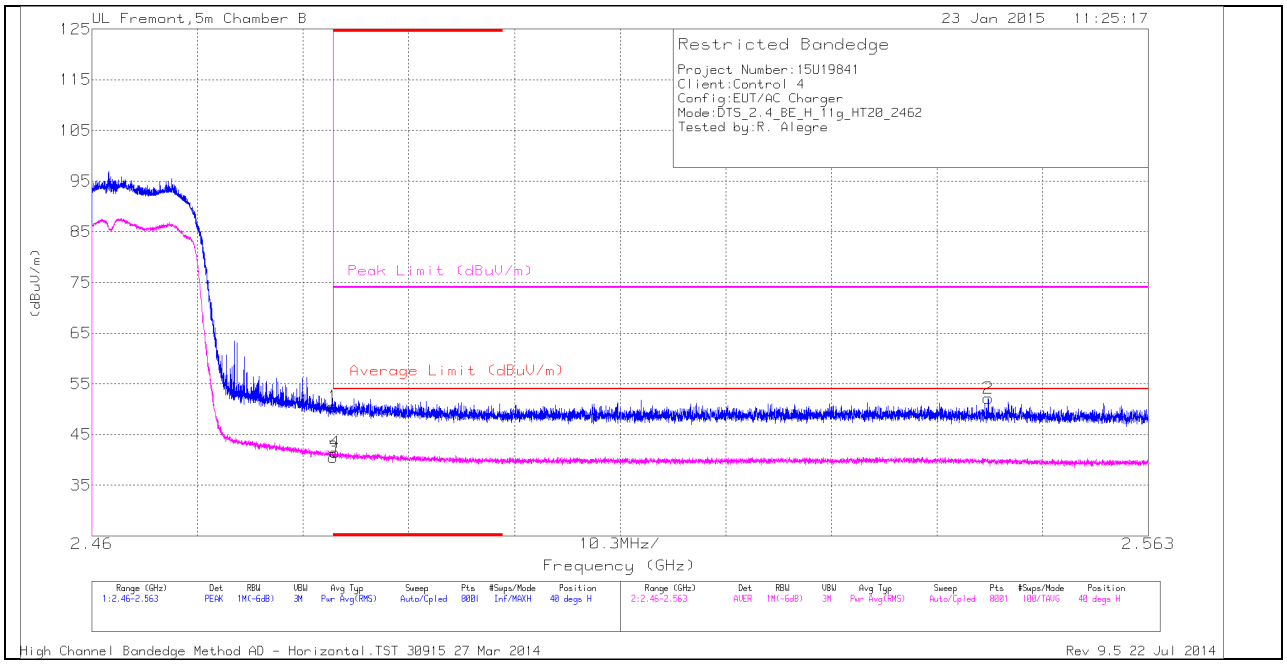
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	40.58	PK	32.4	-22.4	0	50.58	-	-	74	-23.42	40	226	H
3	* 2.484	30.3	RMS	32.4	-22.4	.15	40.45	54	-13.55	-	-	40	226	H
4	* 2.484	31.34	RMS	32.4	-22.4	.15	41.49	54	-12.51	-	-	40	226	H
2	2.547	42.02	PK	32.5	-22.4	0	52.12	-	-	74	-21.88	40	226	H

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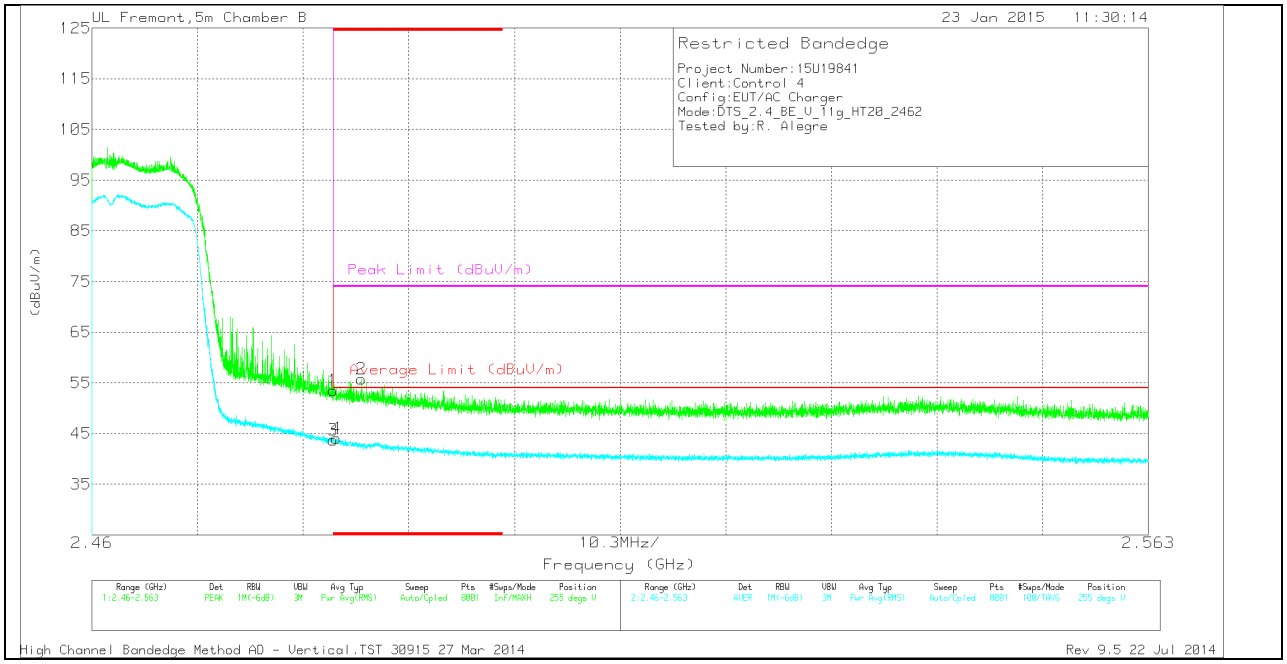
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	43.53	PK	32.4	-22.4	0	53.53	-	-	74	-20.47	255	262	V
2	* 2.486	45.76	PK	32.4	-22.4	0	55.76	-	-	74	-18.24	255	262	V
3	* 2.484	33.51	RMS	32.4	-22.4	.15	43.66	54	-10.34	-	-	255	262	V
4	* 2.484	33.97	RMS	32.4	-22.4	.15	44.12	54	-9.88	-	-	255	262	V

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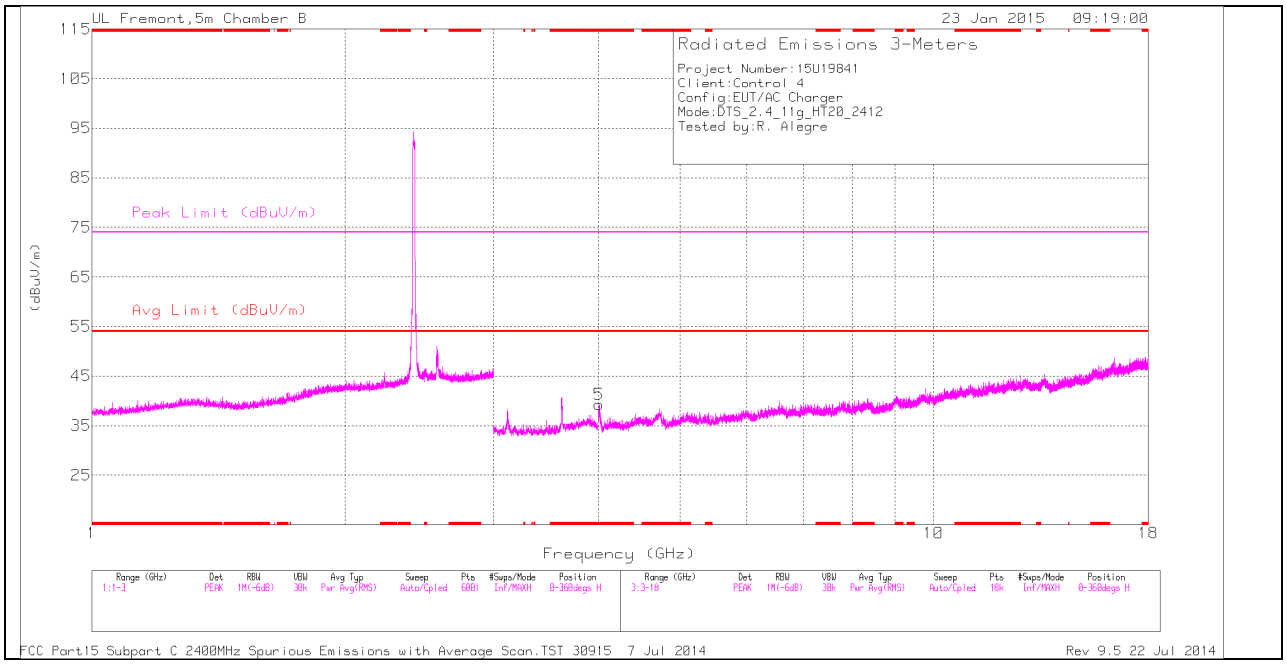
HARMONICS AND SPURIOUS EMISSIONS

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.

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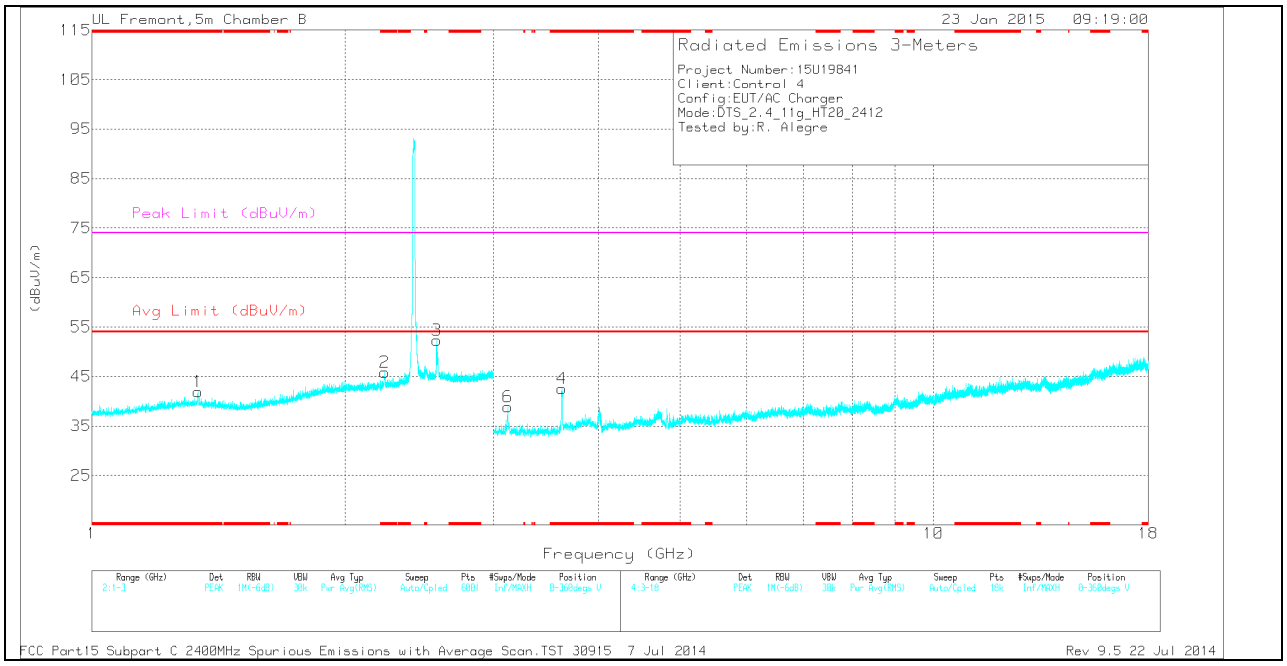
LOW CHANNEL VERTICAL



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

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.338	37.45	PK	28.7	-24.2	0	41.95	-	-	74	-32.05	0-360	199	V
2	* 2.228	37.4	PK	31.4	-22.9	0	45.9	-	-	74	-28.1	0-360	101	V
5	* 4.007	36.66	PK	33.6	-31	0	39.26	-	-	74	-34.74	0-360	101	H
4	* 3.618	40.08	PK	33.2	-30.7	0	42.58	-	-	74	-31.42	0-360	101	V
3	2.571	42.27	PK	32.5	-22.4	0	52.37	-	-	-	-	0-360	199	V
6	3.118	37.19	PK	32.8	-31.1	0	38.89	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 3.618	50.83	PK2	33.2	-30.7	0	53.33	-	-	74	-20.67	7	138	V
* 3.619	40.33	MAv1	33.2	-30.7	.15	42.98	54	-11.02	-	-	7	138	V
2.571	51.79	PK2	32.5	-22.4	0	61.89	-	-	-	-	169	192	V
2.572	37.29	MAv1	32.5	-22.4	.15	47.54	54	-6.46	-	-	169	192	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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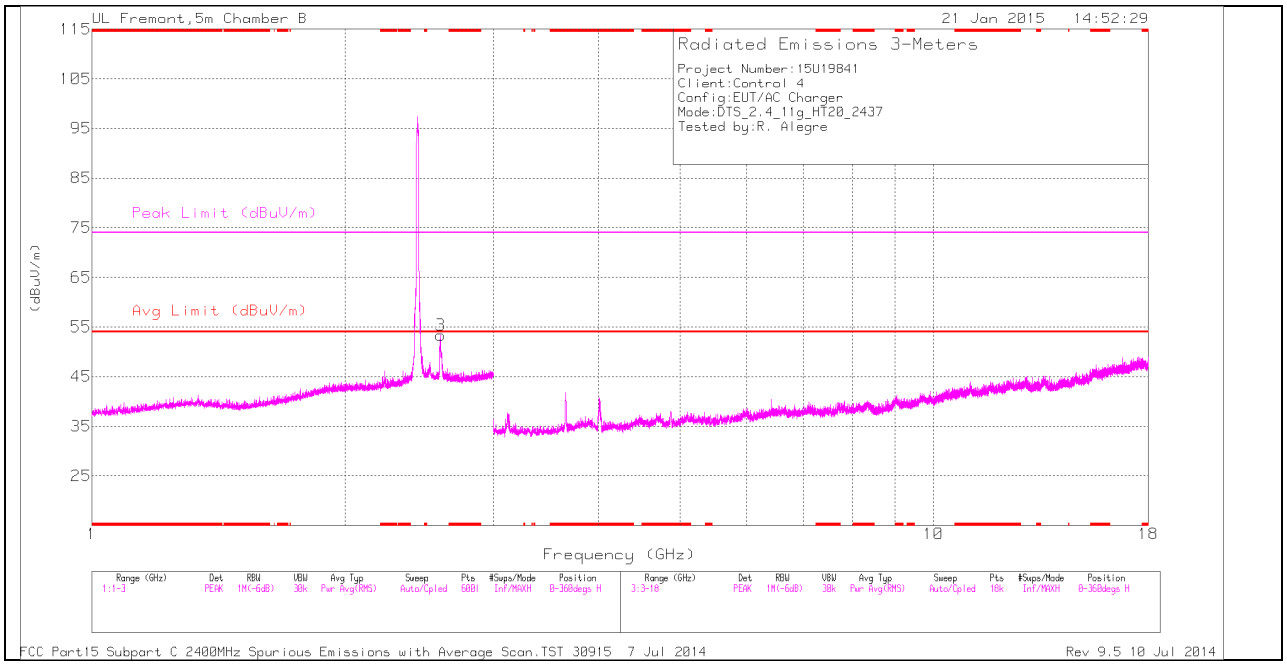
MID CHANNEL HORIZONTAL



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

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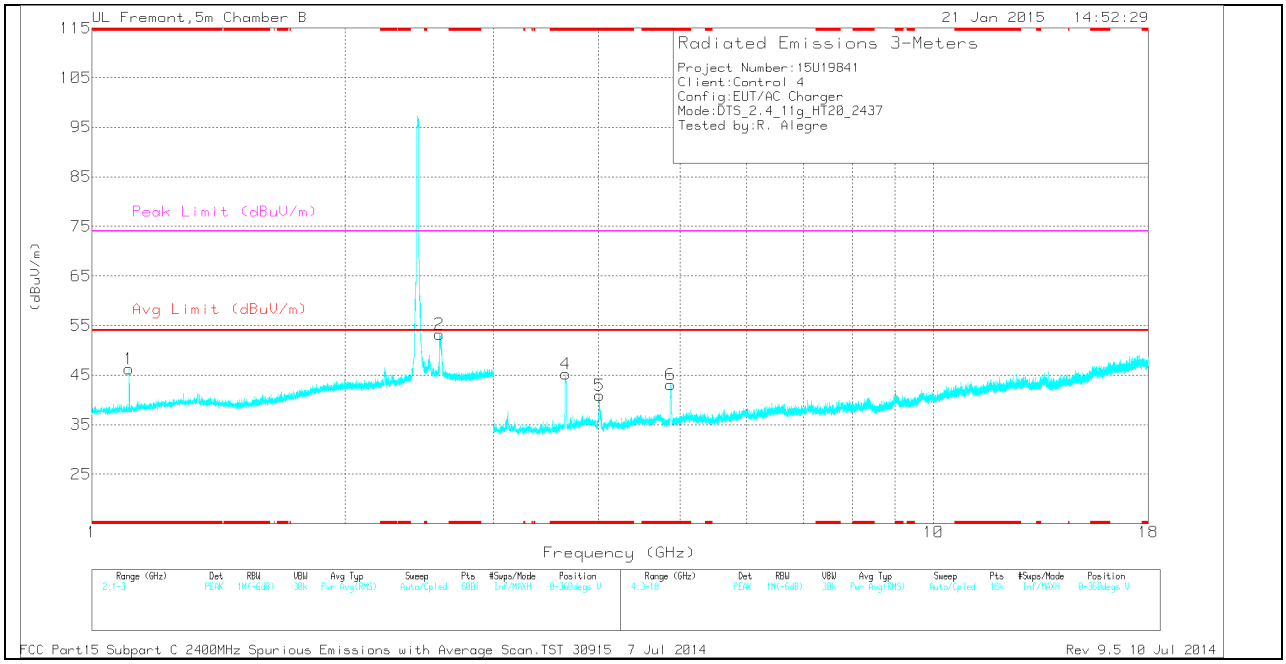
MID CHANNEL VERTICAL



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

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.107	43.29	PK	27.4	-24.4	0	46.29	-	-	74	-27.71	0-360	199	V
4	* 3.655	42.7	PK	33.2	-30.7	0	45.2	-	-	74	-28.8	0-360	101	V
5	* 4.008	38.25	PK	33.6	-31	0	40.85	-	-	74	-33.15	0-360	101	V
6	* 4.875	39.28	PK	34.2	-30.4	0	43.08	-	-	74	-30.92	0-360	199	V
2	2.589	43.07	PK	32.5	-22.4	0	53.17	-	-	-	-	0-360	199	V
3	2.594	43.21	PK	32.5	-22.4	0	53.31	-	-	-	-	0-360	199	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 3.655	52.79	PK2	33.2	-30.7	0	55.29	-	-	74	-18.71	216	130	V
* 3.654	42.51	MAv1	33.2	-30.7	.15	45.01	54	-8.99	-	-	216	130	V
* 4.874	49.01	PK2	34.2	-30.4	0	52.81	-	-	74	-21.19	12	175	V
* 4.874	37.34	MAv1	34.2	-30.4	.15	41.14	54	-12.86	-	-	12	175	H
2.592	37.1	MAv1	32.5	-22.4	.15	47.35	-	-	-	-	38	145	H
2.596	51.2	PK2	32.5	-22.4	0	61.3	-	-	-	-	38	145	H

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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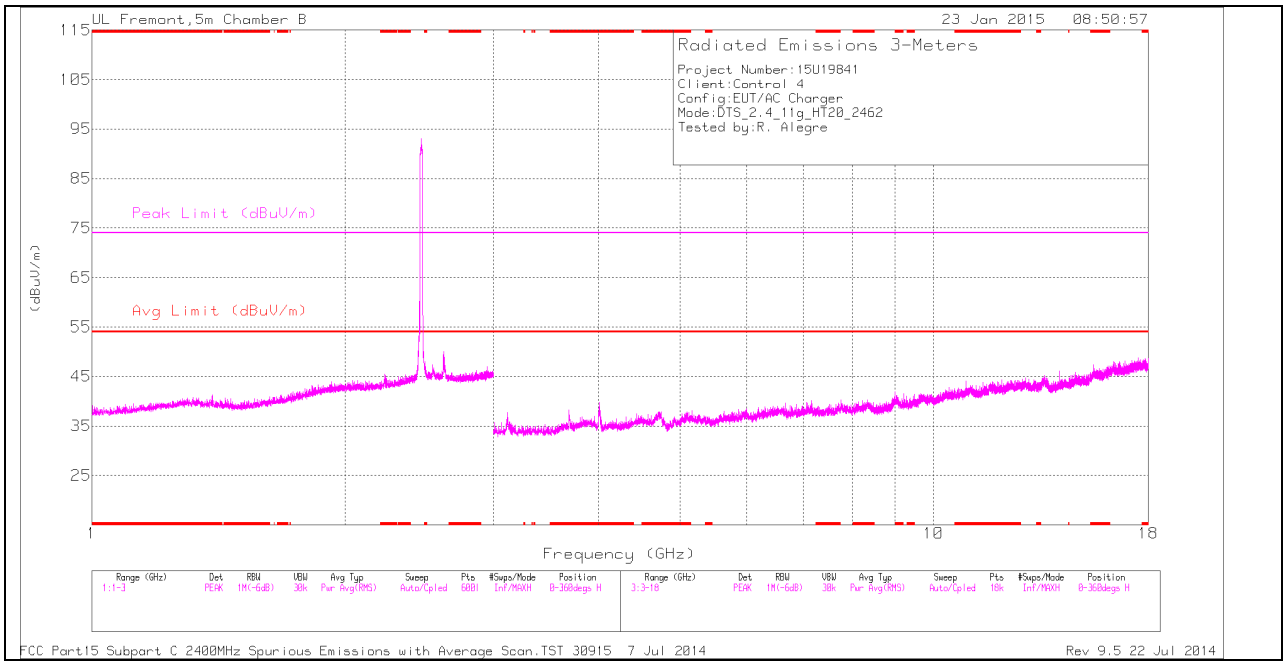
HIGH CHANNEL HORIZONTAL



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

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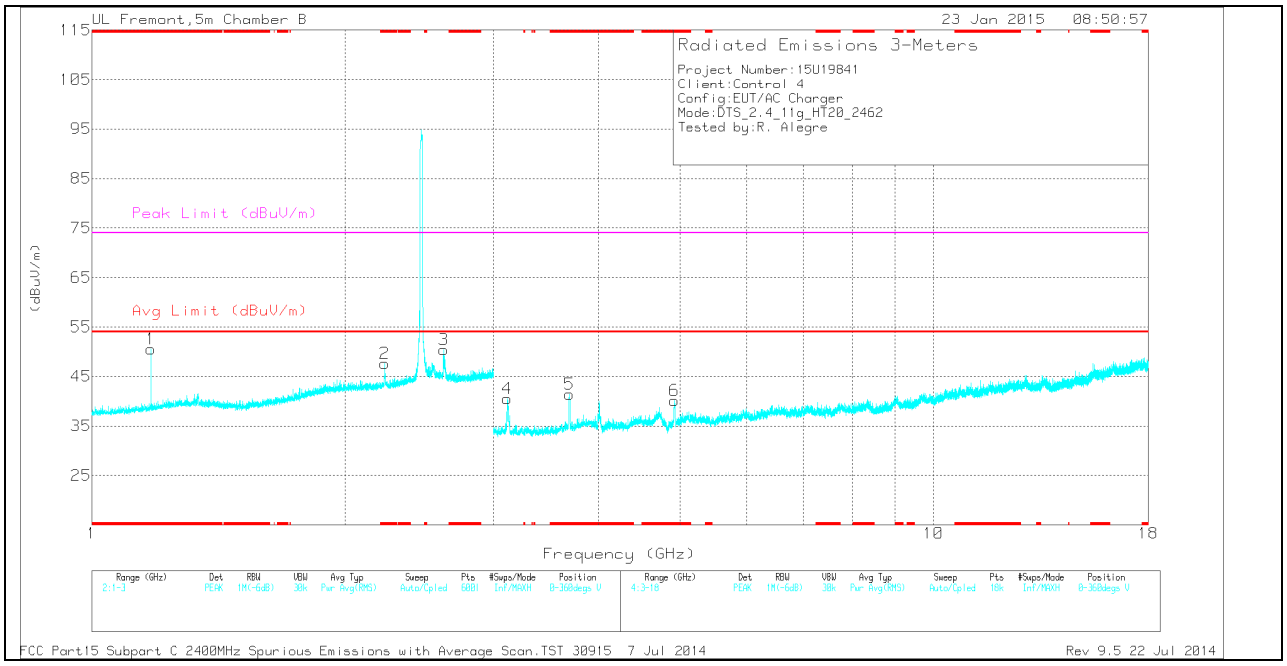
HIGH CHANNEL VERTICAL



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

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.175	46.89	PK	28	-24.3	0	50.59	-	-	74	-23.41	0-360	199	V
2	* 2.228	39.09	PK	31.4	-22.9	0	47.59	-	-	74	-26.41	0-360	101	V
5	* 3.692	39.2	PK	33.3	-31.1	0	41.4	-	-	74	-32.6	0-360	101	V
6	* 4.924	36.48	PK	34.2	-30.5	0	40.18	-	-	74	-33.82	0-360	199	V
3	2.617	40.4	PK	32.4	-22.4	0	50.4	-	-	-	-	0-360	199	V
4	3.116	38.86	PK	32.9	-31.2	0	40.56	-	-	-	-	0-360	101	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 1.176	36.1	PK2	28	-24.3	0	39.8	-	-	74	-34.2	2	199	V
* 1.174	32.07	MAv1	28	-24.3	.15	35.92	54	-18.08	-	-	2	199	V
* 3.694	50.35	PK2	33.3	-31.1	0	52.55	-	-	74	-21.45	179	108	V
* 3.694	39.78	MAv1	33.3	-31.1	.15	42.13	54	-11.87	-	-	179	108	V
* 4.922	46.12	PK2	34.2	-30.5	0	49.82	-	-	74	-24.18	17	182	V
* 4.923	34.31	MAv1	34.2	-30.5	.15	38.16	54	-15.84	-	-	17	182	V
2.615	35.69	MAv1	32.4	-22.4	.15	45.84	54	-8.16	-	-	272	235	V
2.617	48.41	PK2	32.4	-22.4	0	58.41	-	-	-	-	272	235	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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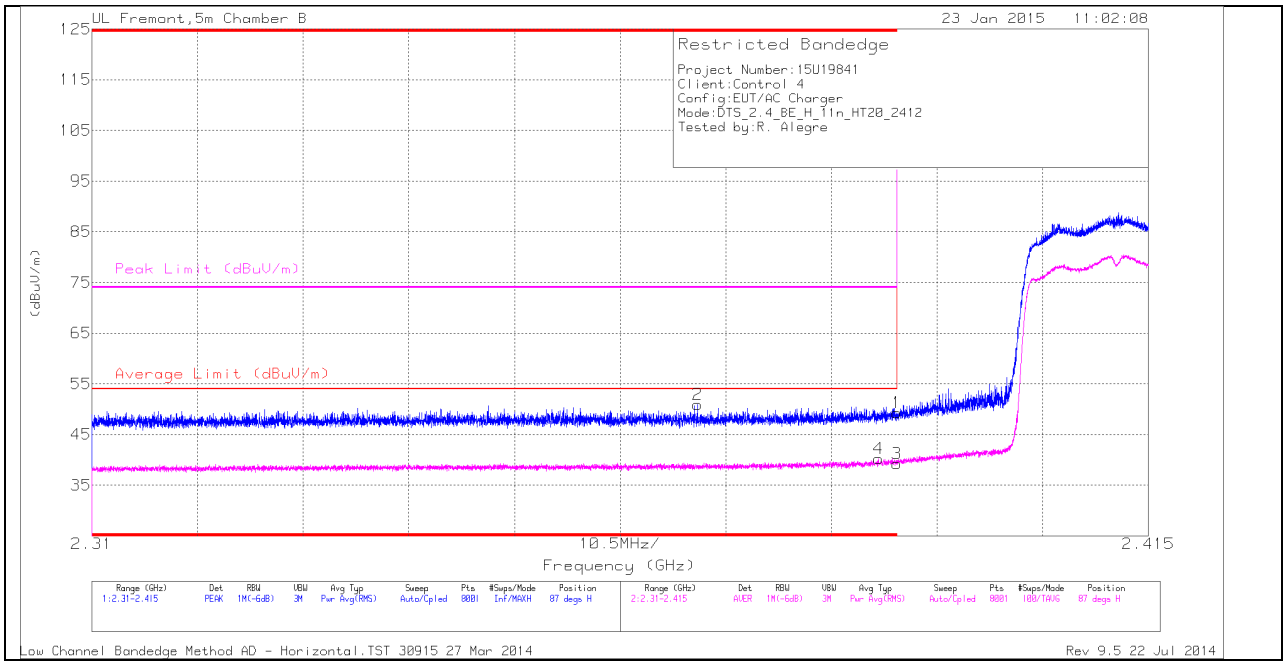
10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	39.78	PK	32.1	-22.6	0	49.28	-	-	74	-24.72	87	189	H
2	* 2.37	41.54	PK	32	-22.6	0	50.94	-	-	74	-23.06	87	189	H
3	* 2.39	29.55	RMS	32.1	-22.6	.16	39.21	54	-14.79	-	-	87	189	H
4	* 2.388	30.6	RMS	32.1	-22.6	.16	40.26	54	-13.74	-	-	87	189	H

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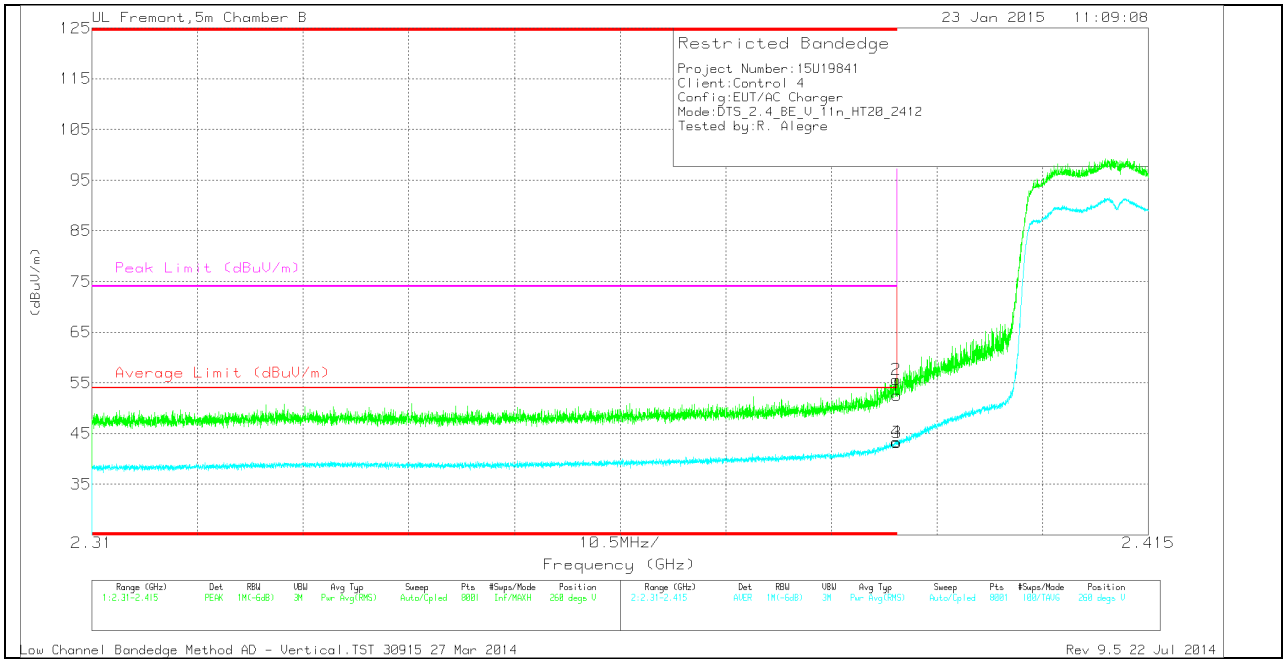
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	43.03	PK	32.1	-22.6	0	52.53	-	-	74	-21.47	260	215	V
2	* 2.39	46.13	PK	32.1	-22.6	0	55.63	-	-	74	-18.37	260	215	V
3	* 2.39	33.59	RMS	32.1	-22.6	.16	43.25	54	-10.75	-	-	260	215	V
4	* 2.39	33.67	RMS	32.1	-22.6	.16	43.33	54	-10.67	-	-	260	215	V

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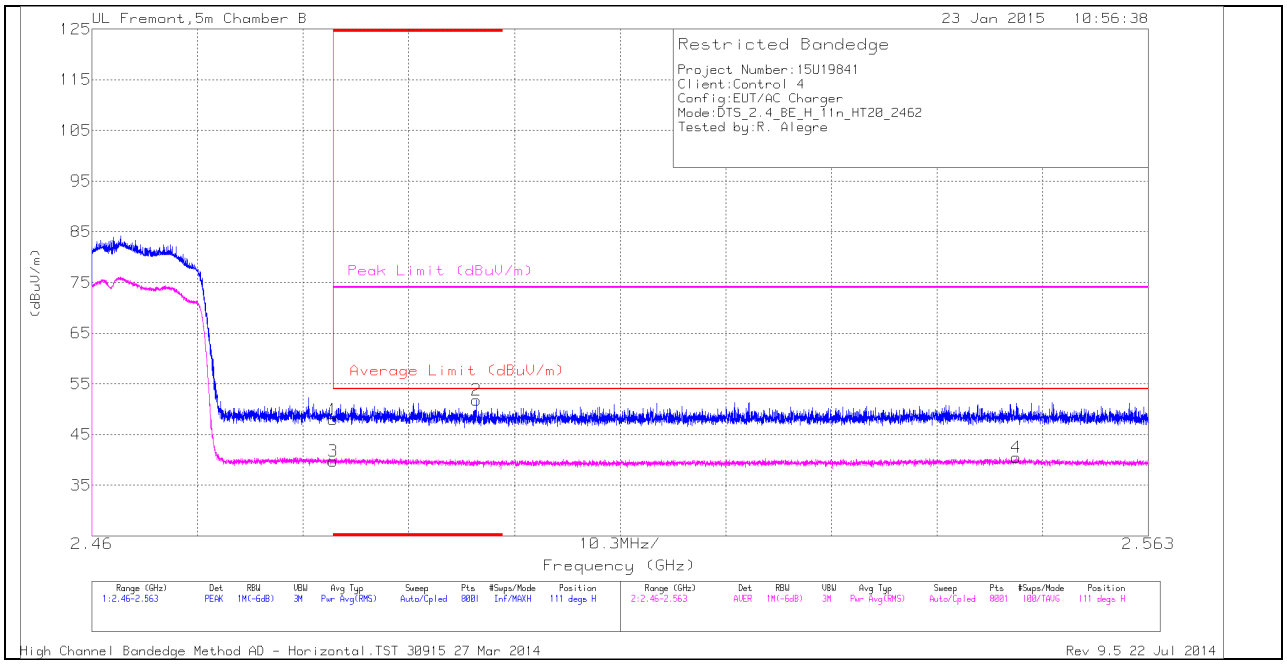
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	37.94	PK	32.4	-22.4	0	47.94	-	-	74	-26.06	111	183	H
2	* 2.497	41.74	PK	32.4	-22.4	0	51.74	-	-	74	-22.26	111	183	H
3	* 2.484	29.53	RMS	32.4	-22.4	.16	39.69	54	-14.31	-	-	111	183	H
4	2.55	30.09	RMS	32.5	-22.3	.16	40.45	54	-13.55	-	-	111	183	H

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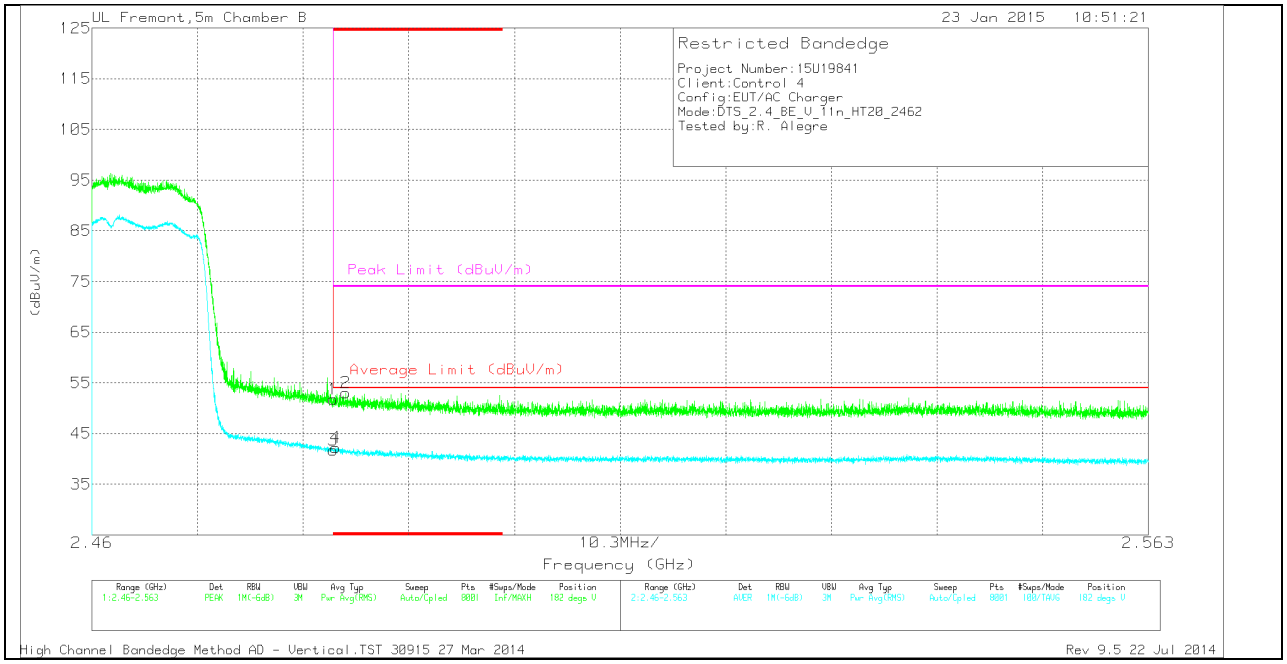
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	41.79	PK	32.4	-22.4	0	51.79	-	-	74	-22.21	182	248	V
2	* 2.485	42.98	PK	32.4	-22.4	0	52.98	-	-	74	-21.02	182	248	V
3	* 2.484	31.61	RMS	32.4	-22.4	.16	41.77	54	-12.23	-	-	182	248	V
4	* 2.484	32.1	RMS	32.4	-22.4	.16	42.26	54	-11.74	-	-	182	248	V

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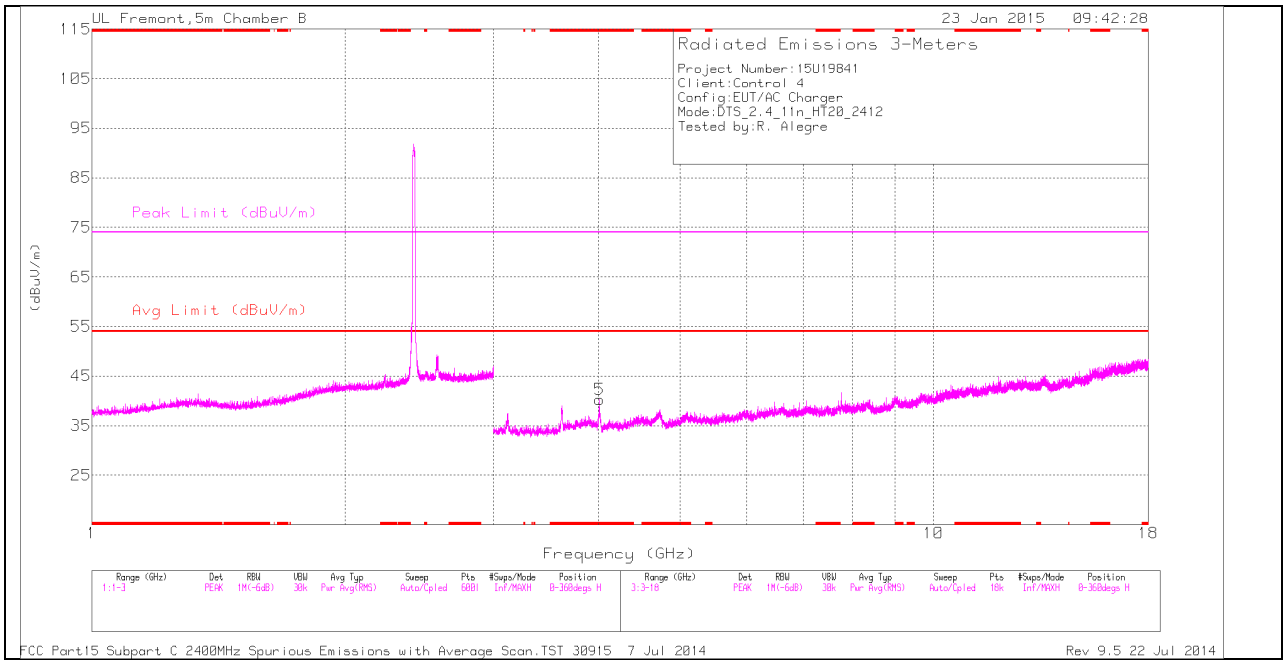
HARMONICS AND SPURIOUS EMISSIONS

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.

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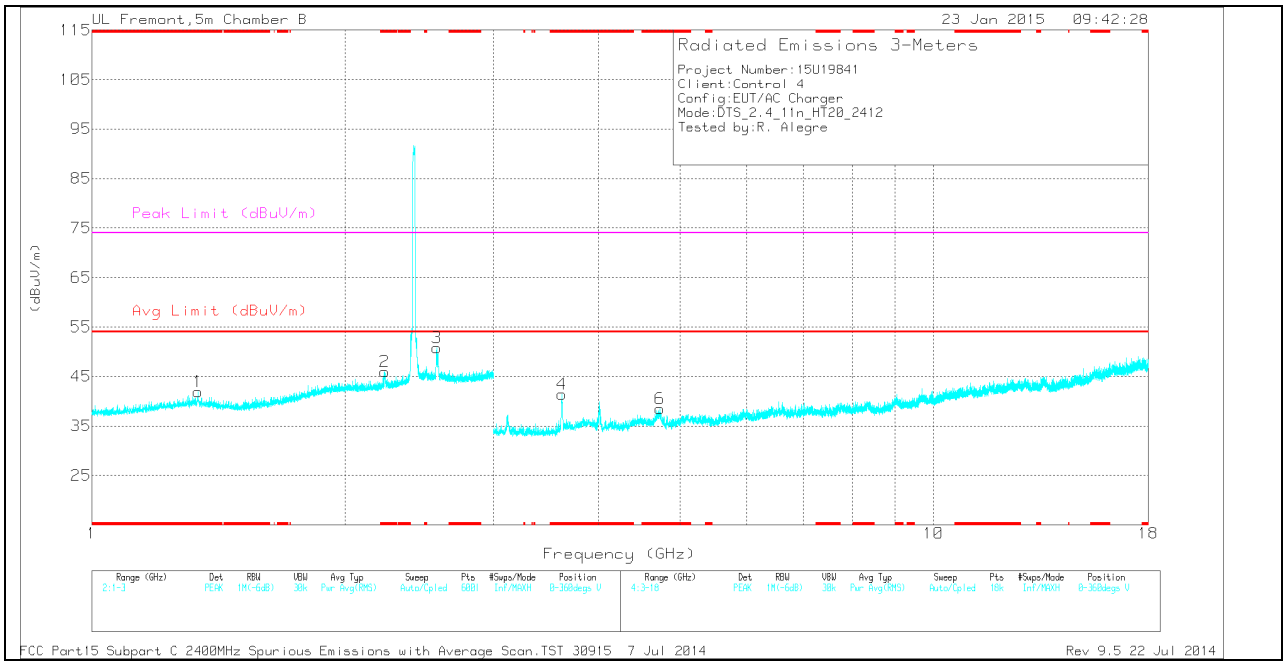
LOW CHANNEL VERTICAL



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

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.337	37.33	PK	28.7	-24.1	0	41.93	-	-	74	-32.07	0-360	200	V
2	* 2.227	37.5	PK	31.4	-22.9	0	46	-	-	74	-28	0-360	200	V
5	* 4.012	37.62	PK	33.6	-31	0	40.22	-	-	74	-33.78	0-360	101	H
4	* 3.617	38.95	PK	33.2	-30.7	0	41.45	-	-	74	-32.55	0-360	101	V
6	* 4.731	33.35	PK	34.2	-29.1	0	38.45	-	-	74	-35.55	0-360	101	V
3	2.571	40.75	PK	32.5	-22.4	0	50.85	-	-	-	-	0-360	200	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
2.571	49.66	PK2	32.5	-22.4	0	59.76	-	-	-	-	169	185	V
2.572	35.84	MAv1	32.5	-22.4	.16	45.94	54	-7.9	-	-	169	185	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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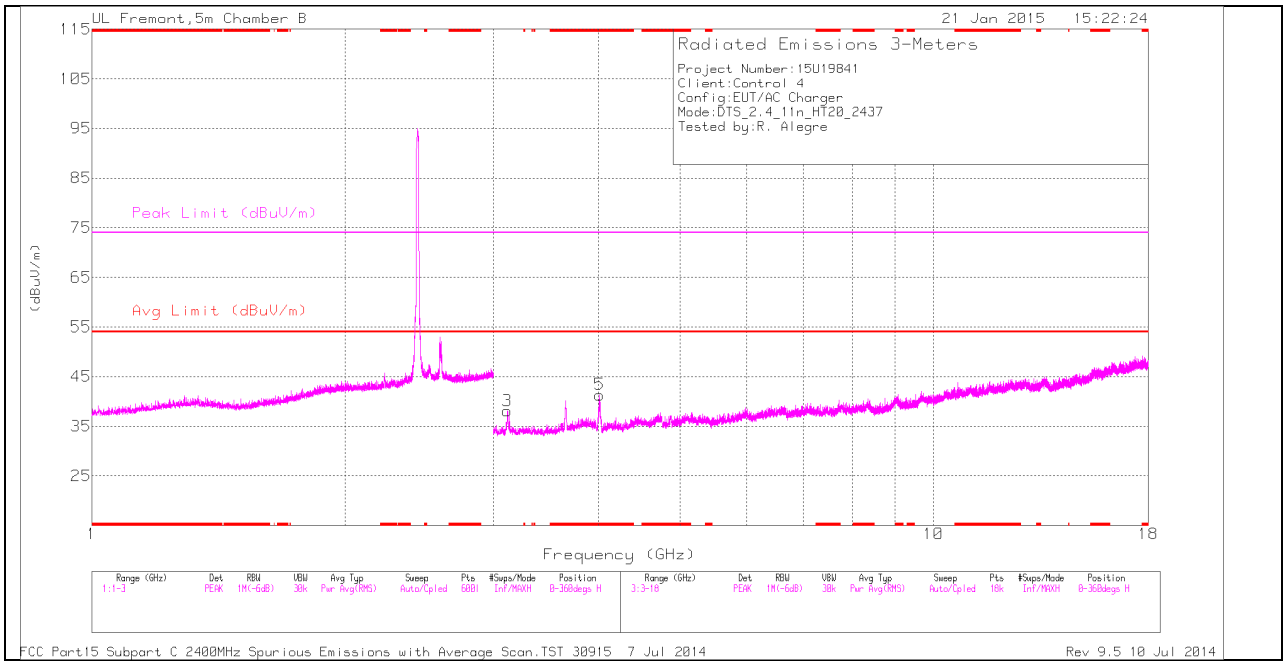
MID CHANNEL HORIZONTAL



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

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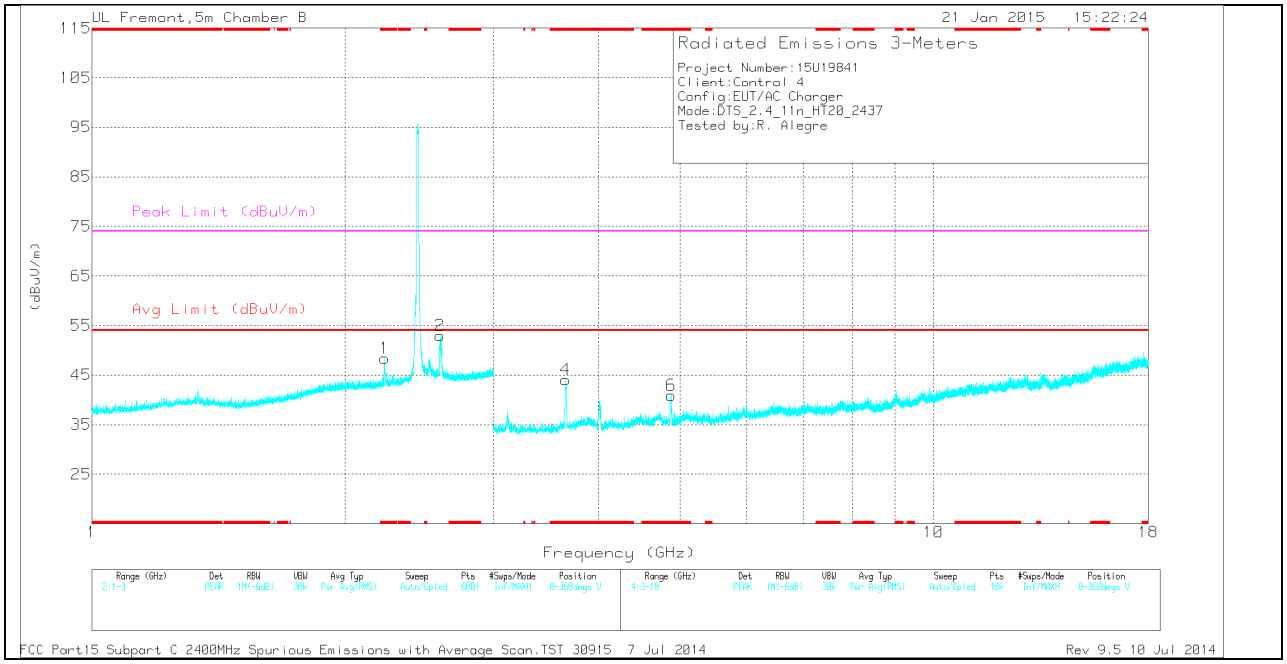
MID CHANNEL VERTICAL



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

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 2.228	39.9	PK	31.4	-22.9	0	48.4	-	-	74	-25.6	0-360	199	V
5	* 4.009	38.75	PK	33.6	-31	0	41.35	-	-	74	-32.65	0-360	199	H
4	* 3.657	41.72	PK	33.2	-30.8	0	44.12	-	-	74	-29.88	0-360	101	V
6	* 4.882	37.05	PK	34.2	-30.4	0	40.85	-	-	74	-33.15	0-360	199	V
2	2.592	42.91	PK	32.5	-22.4	0	53.01	-	-	-	-	0-360	199	V
3	3.117	36.52	PK	32.8	-31.2	0	38.12	-	-	-	-	0-360	101	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 3.656	50.45	PK2	33.2	-30.7	0	52.95	-	-	74	-21.05	211	131	V
* 3.656	40.74	MAv1	33.2	-30.7	.16	43.24	54	-10.76	-	-	211	131	H
* 4.881	46.44	PK2	34.2	-30.4	0	50.24	-	-	74	-23.76	5	172	V
* 4.88	34.82	MAv1	34.2	-30.4	.16	38.62	54	-15.38	-	-	5	172	V
2.59	38.44	MAv1	32.5	-22.4	.16	48.54	-	-	-	-	249	234	V
2.592	50.68	PK2	32.5	-22.4	0	60.78	-	-	-	-	249	234	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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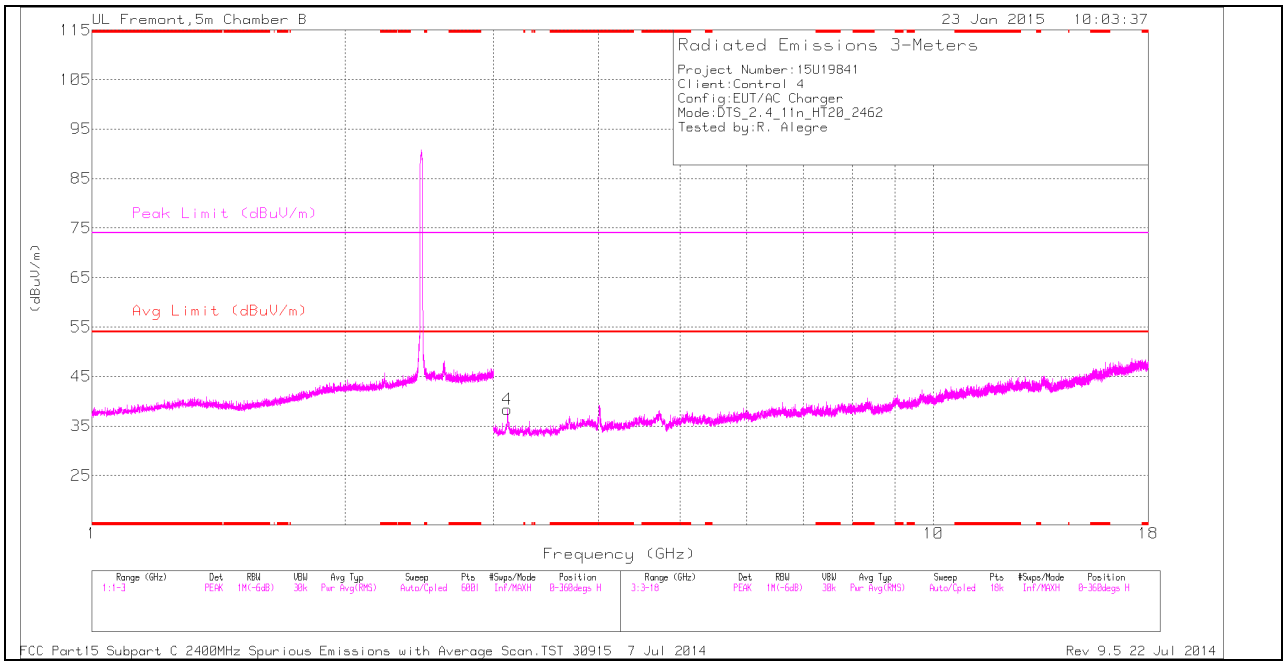
HIGH CHANNEL HORIZONTAL



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

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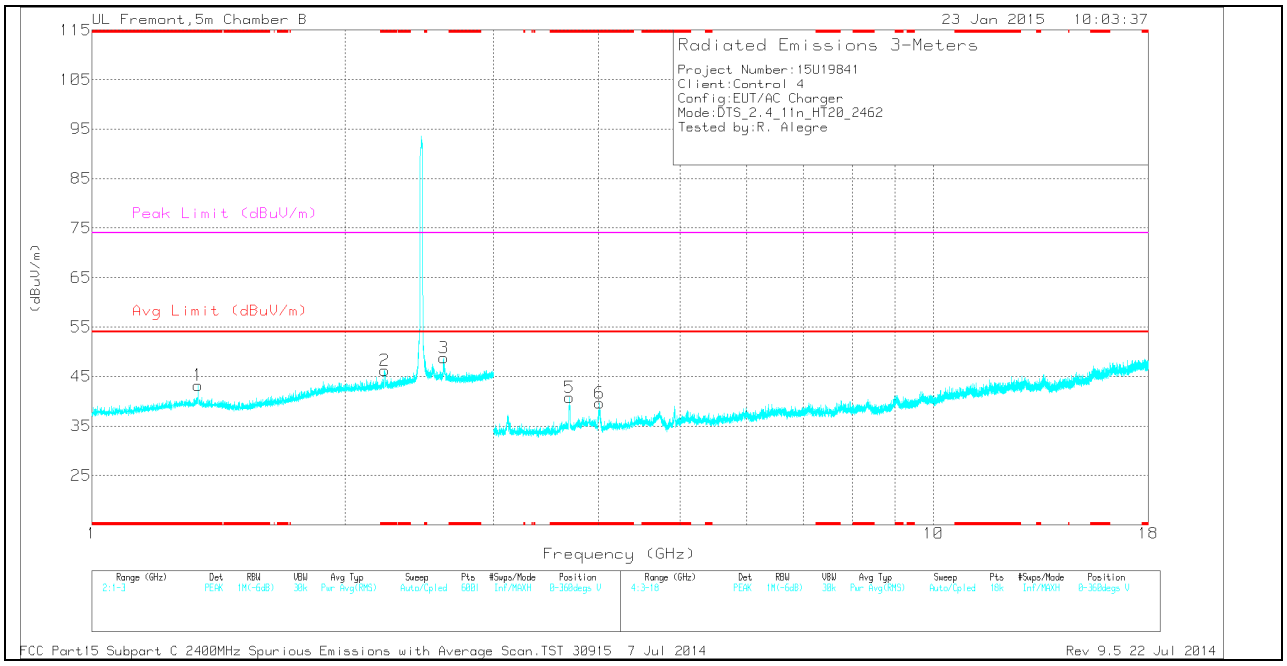
HIGH CHANNEL VERTICAL



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

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.337	38.65	PK	28.7	-24.1	0	43.25	-	-	74	-30.75	0-360	101	V
2	* 2.226	37.72	PK	31.4	-22.9	0	46.22	-	-	74	-27.78	0-360	101	V
5	* 3.693	38.54	PK	33.3	-31.1	0	40.74	-	-	74	-33.26	0-360	101	V
6	* 4.009	37.02	PK	33.6	-31	0	39.62	-	-	74	-34.38	0-360	101	V
3	2.617	38.72	PK	32.4	-22.4	0	48.72	-	-	-	-	0-360	199	V
4	3.115	36.68	PK	32.9	-31.2	0	38.38	-	-	-	-	0-360	199	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 3.692	48.5	PK2	33.3	-31.1	0	50.7	-	-	74	-23.3	177	107	V
* 3.693	38.18	MAv1	33.3	-31.1	0	40.38	54	-13.62	-	-	177	107	V
2.615	35.03	MAv1	32.4	-22.4	0	45.03	-	-	-	-	182	185	V
2.617	47.4	PK2	32.4	-22.4	0	57.4	-	-	-	-	182	185	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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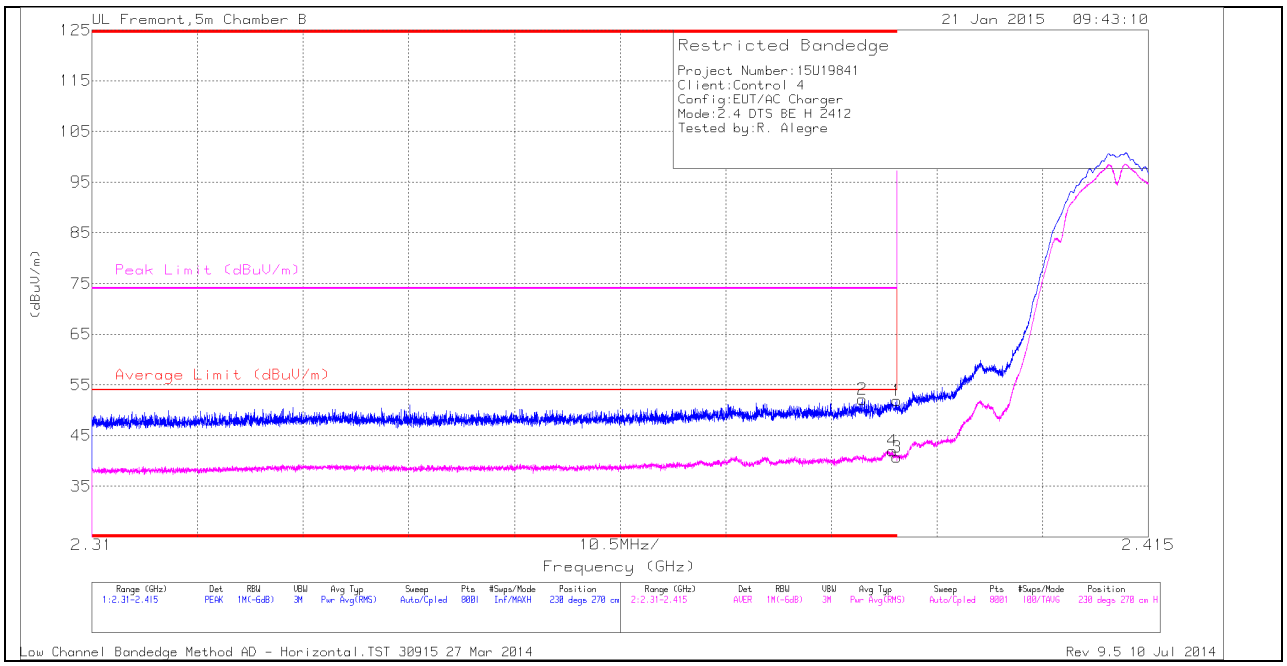
10.3. TRANSMITTER ABOVE 1 GHz (C4-WALL10)

10.3.1. 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 T345 (dB/m)	Amp/Cbl/Flt 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	42.43	PK	32.1	-22.6	0	51.93	-	-	74	-22.07	230	270	H
2	* 2.387	42.62	PK	32.1	-22.6	0	52.12	-	-	74	-21.88	230	270	H
3	* 2.39	31.2	RMS	32.1	-22.6	0	40.7	54	-13.3	-	-	230	270	H
4	* 2.39	32.45	RMS	32.1	-22.6	0	41.95	54	-12.05	-	-	230	270	H

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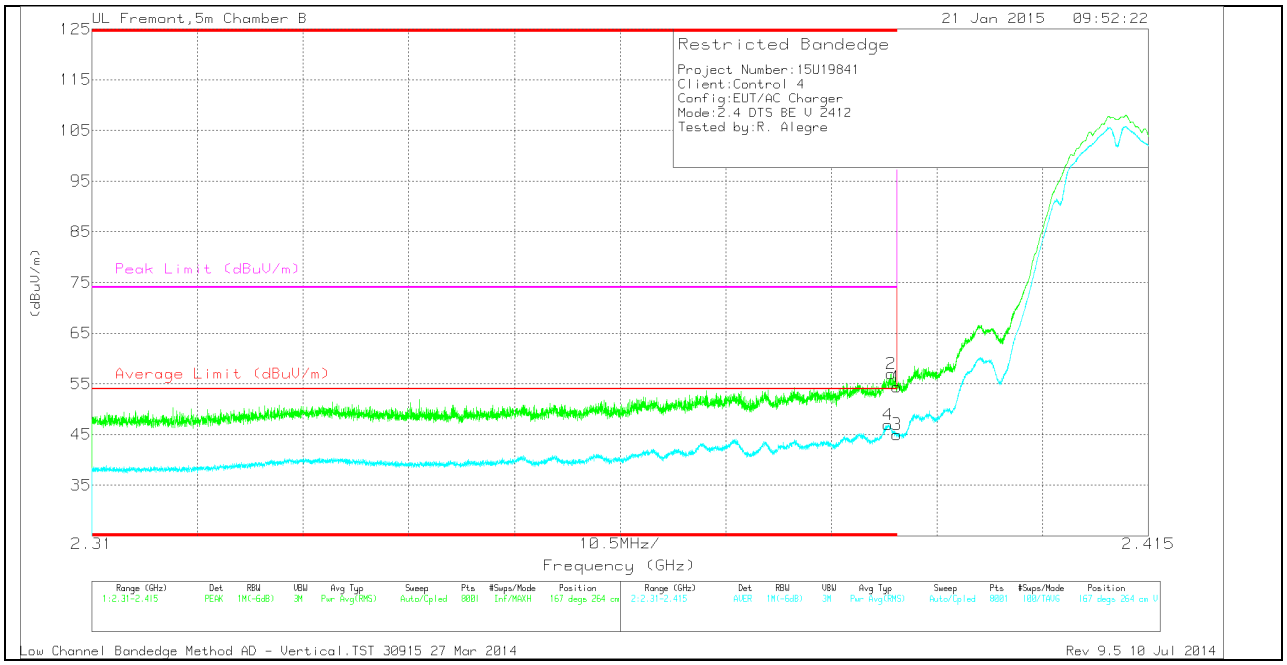
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	44.92	PK	32.1	-22.6	0	54.42	-	-	74	-19.58	167	264	V
2	* 2.389	47.44	PK	32.1	-22.6	0	56.94	-	-	74	-17.06	167	264	V
3	* 2.39	35.51	RMS	32.1	-22.6	0	45.01	54	-8.99	-	-	167	264	V
4	* 2.389	37.46	RMS	32.1	-22.6	0	46.96	54	-7.04	-	-	167	264	V

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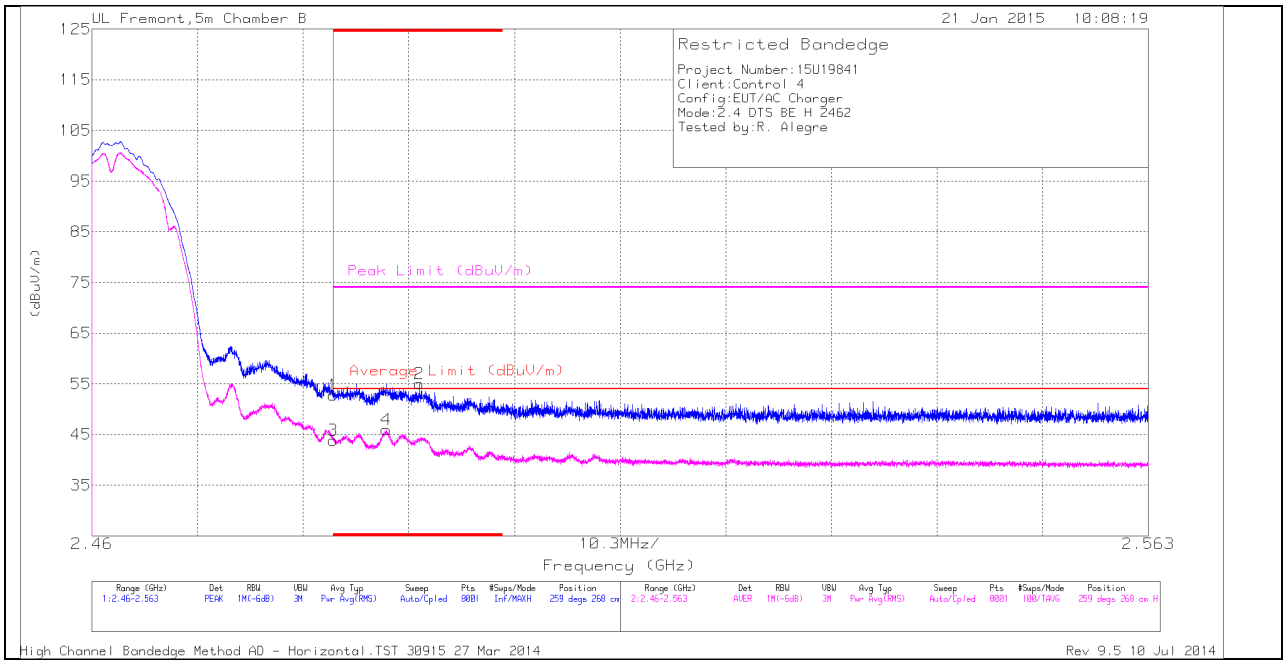
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	42.72	PK	32.4	-22.4	0	52.72	-	-	74	-21.28	259	268	H
2	* 2.492	44.97	PK	32.4	-22.4	0	54.97	-	-	74	-19.03	259	268	H
3	* 2.484	33.78	RMS	32.4	-22.4	0	43.78	54	-10.22	-	-	259	268	H
4	* 2.489	35.91	RMS	32.4	-22.4	0	45.91	54	-8.09	-	-	259	268	H

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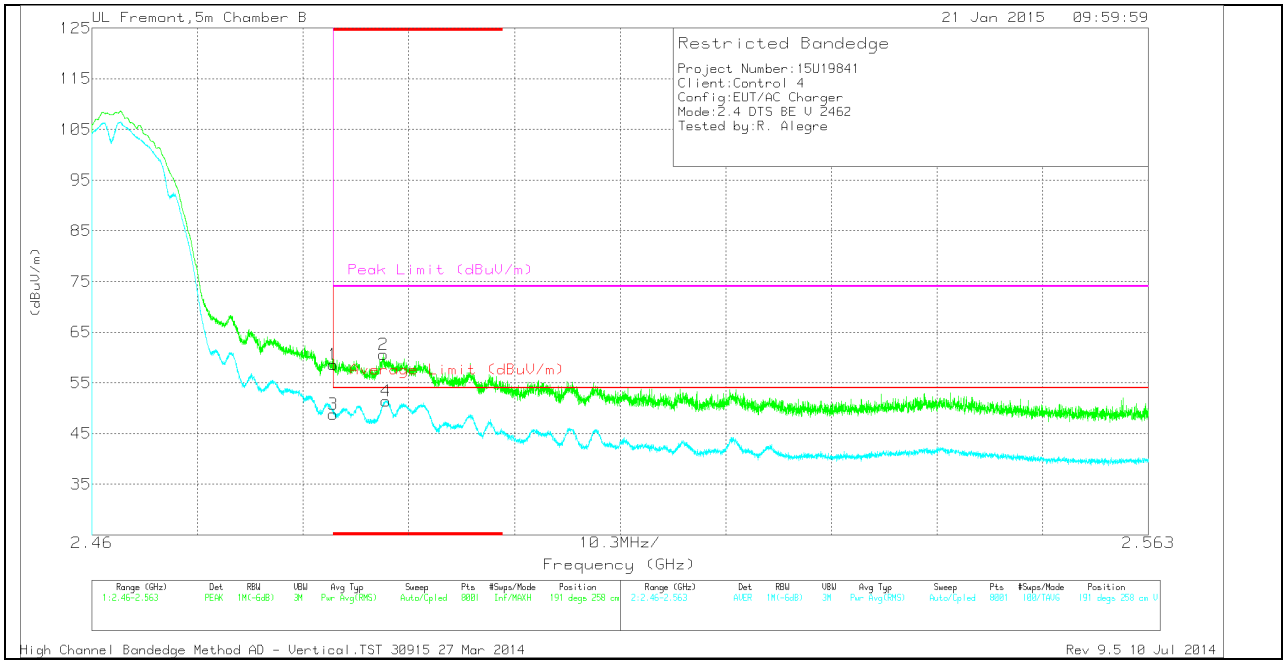
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	48.56	PK	32.4	-22.4	0	58.56	-	-	74	-15.44	191	258	V
2	* 2.488	50.63	PK	32.4	-22.4	0	60.63	-	-	74	-13.37	191	258	V
3	* 2.484	38.8	RMS	32.4	-22.4	0	48.8	54	-5.2	-	-	191	258	V
4	* 2.489	41.46	RMS	32.4	-22.4	0	51.46	54	-2.54	-	-	191	258	V

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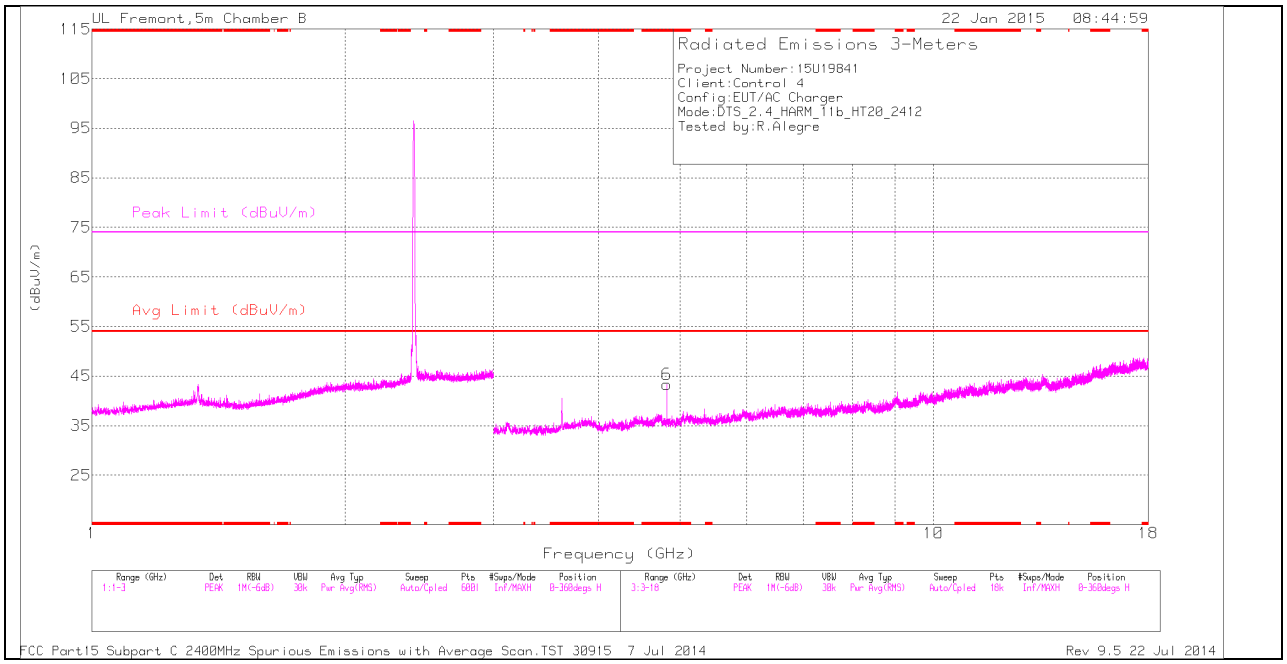
HARMONICS AND SPURIOUS EMISSIONS

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.

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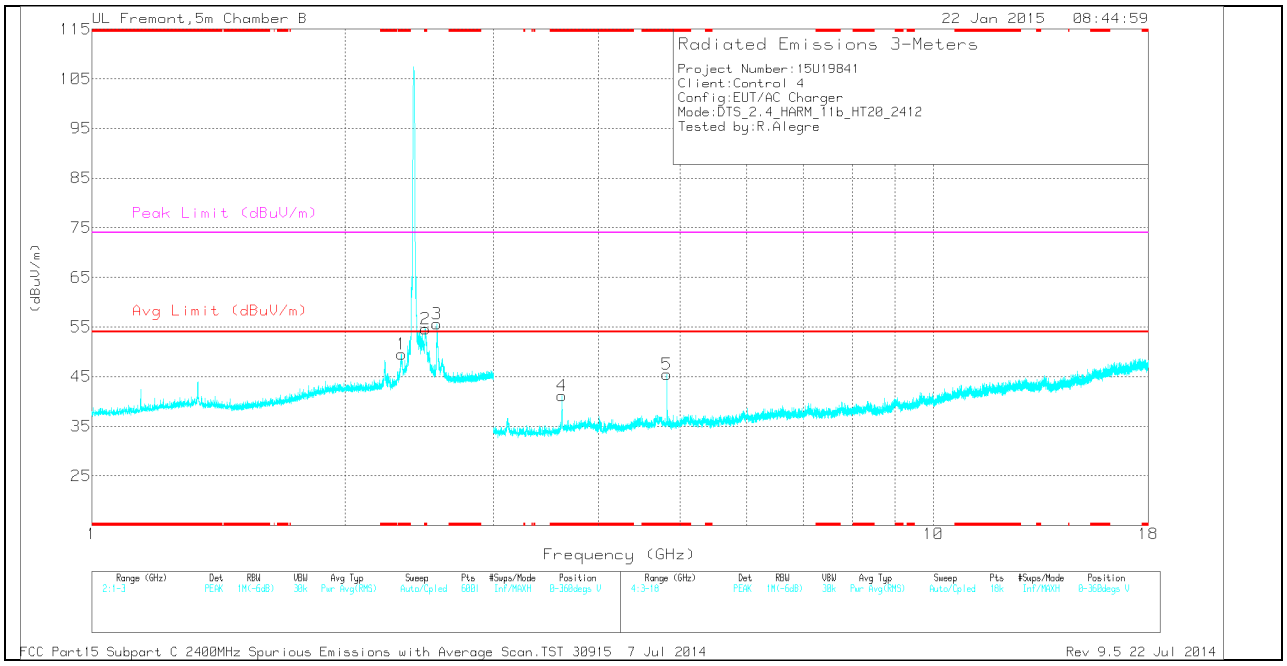
LOW CHANNEL VERTICAL



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

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 2.335	40.49	PK	31.8	-22.7	0	49.59	-	-	74	-24.41	0-360	101	V
2	* 2.49	44.63	PK	32.4	-22.4	0	54.63	-	-	74	-19.37	0-360	101	V
6	* 4.824	38.82	PK	34.2	-29.7	0	43.32	-	-	74	-30.68	0-360	101	H
4	* 3.619	38.67	PK	33.2	-30.7	0	41.17	-	-	74	-32.83	0-360	101	V
5	* 4.824	40.94	PK	34.2	-29.7	0	45.44	-	-	74	-28.56	0-360	199	V
3	2.571	45.57	PK	32.5	-22.4	0	55.67	-	-	-	-	0-360	200	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 2.49	52.43	PK2	32.4	-22.4	0	62.43	-	-	74	-11.57	356	130	V
* 2.491	41.44	MAv1	32.4	-22.4	0	51.44	54	-2.56	-	-	356	130	V
* 4.824	45.88	PK2	34.2	-29.7	0	50.38	-	-	74	-23.62	223	337	V
* 4.824	41.5	MAv1	34.2	-29.7	0	46	54	-8	-	-	223	337	V
2.57	38.88	MAv1	32.5	-22.4	0	48.98	54	-5.02	-	-	3	241	V
2.573	52.48	PK2	32.5	-22.4	0	62.58	-	-	-	-	3	241	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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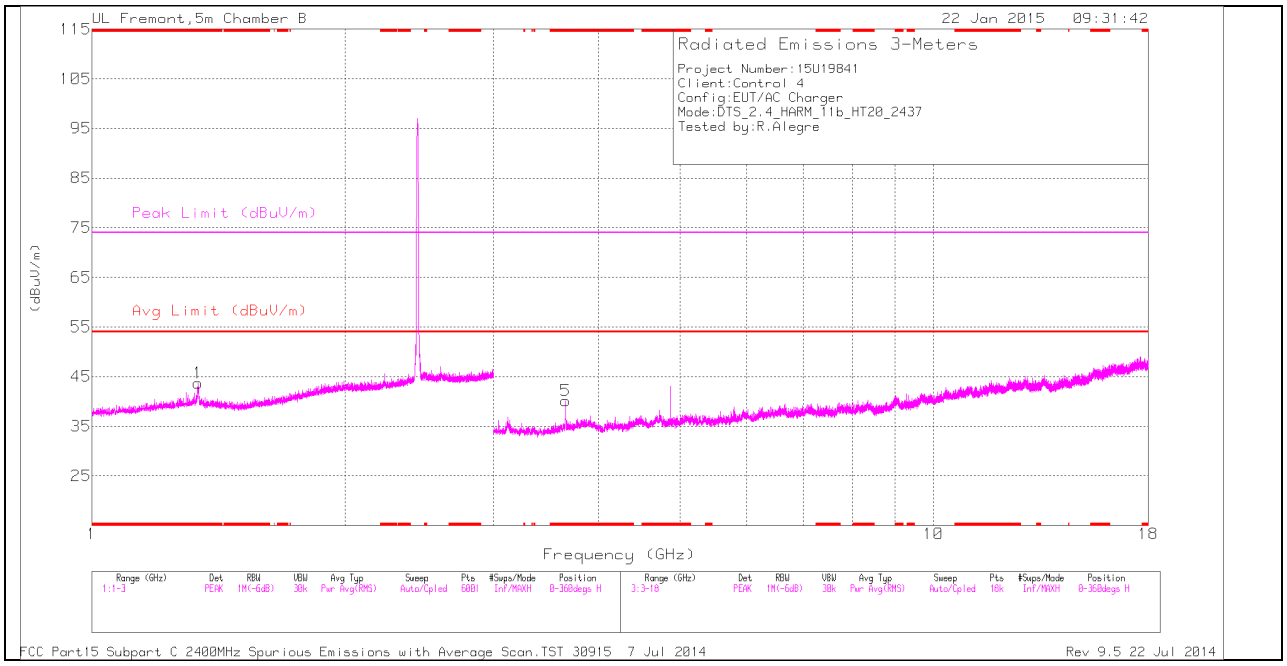
MID CHANNEL HORIZONTAL



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

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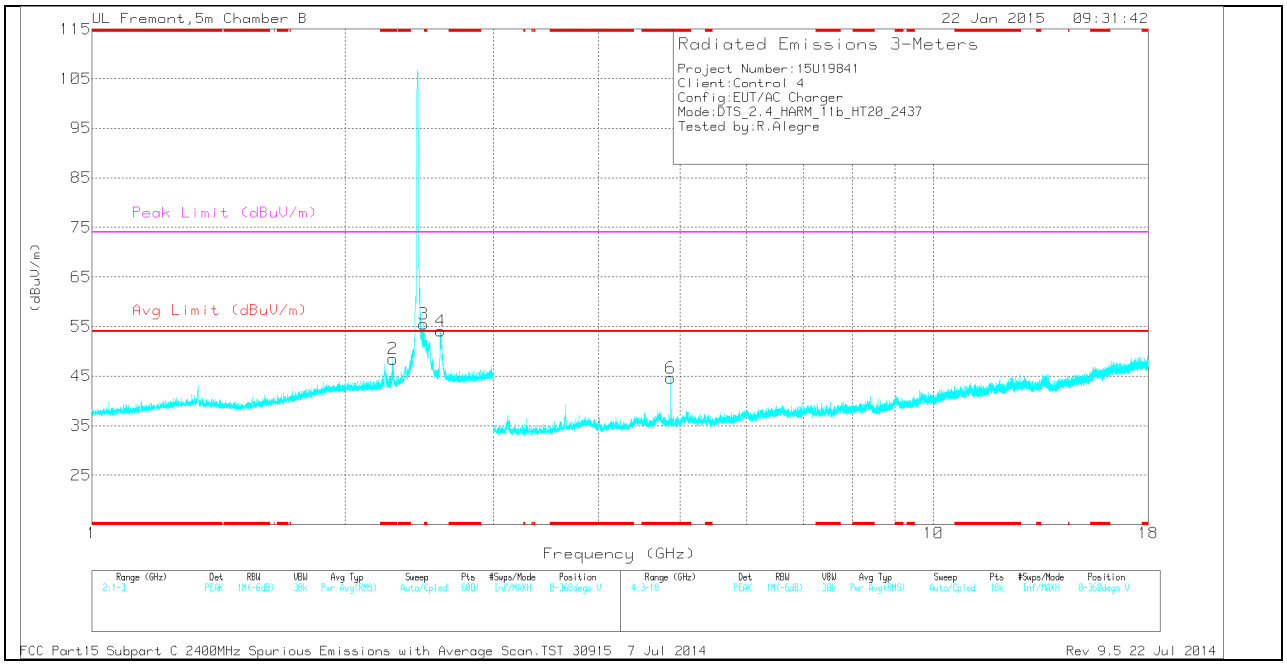
MID CHANNEL VERTICAL



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

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.336	39.04	PK	28.7	-24.1	0	43.64	-	-	74	-30.36	0-360	199	H
2	* 2.276	39.66	PK	31.6	-22.8	0	48.46	-	-	74	-25.54	0-360	199	V
5	* 3.655	37.66	PK	33.2	-30.7	0	40.16	-	-	74	-33.84	0-360	200	H
6	* 4.873	40.84	PK	34.2	-30.4	0	44.64	-	-	74	-29.36	0-360	200	V
3	2.478	45.56	PK	32.4	-22.4	0	55.56	-	-	-	-	0-360	102	V
4	2.598	44	PK	32.5	-22.4	0	54.1	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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	47.13	PK2	34.2	-30.4	0	50.93	-	-	74	-23.07	217	160	V
* 4.874	30.67	MAv1	34.2	-30.4	0	34.47	54	-19.53	-	-	217	160	V
2.478	52.33	PK2	32.4	-22.4	0	62.33	-	-	-	-	357	131	V
2.478	41.87	MAv1	32.4	-22.4	0	51.87	54	-2.13	-	-	357	131	V
2.598	52.07	PK2	32.5	-22.4	0	62.17	-	-	-	-	0	289	V
2.6	40.25	MAv1	32.5	-22.4	0	50.35	54	-3.65	-	-	0	289	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MAv1 - KDB558074 Option 1 Maximum RMS Average

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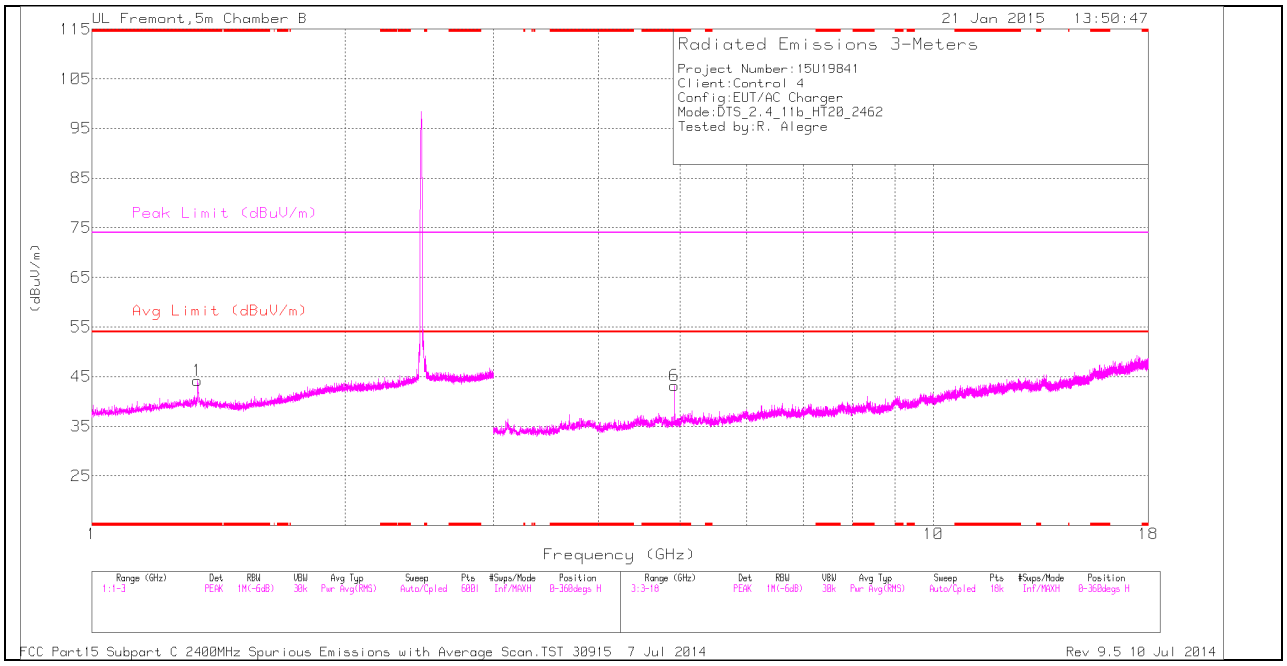
HIGH CHANNEL HORIZONTAL



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

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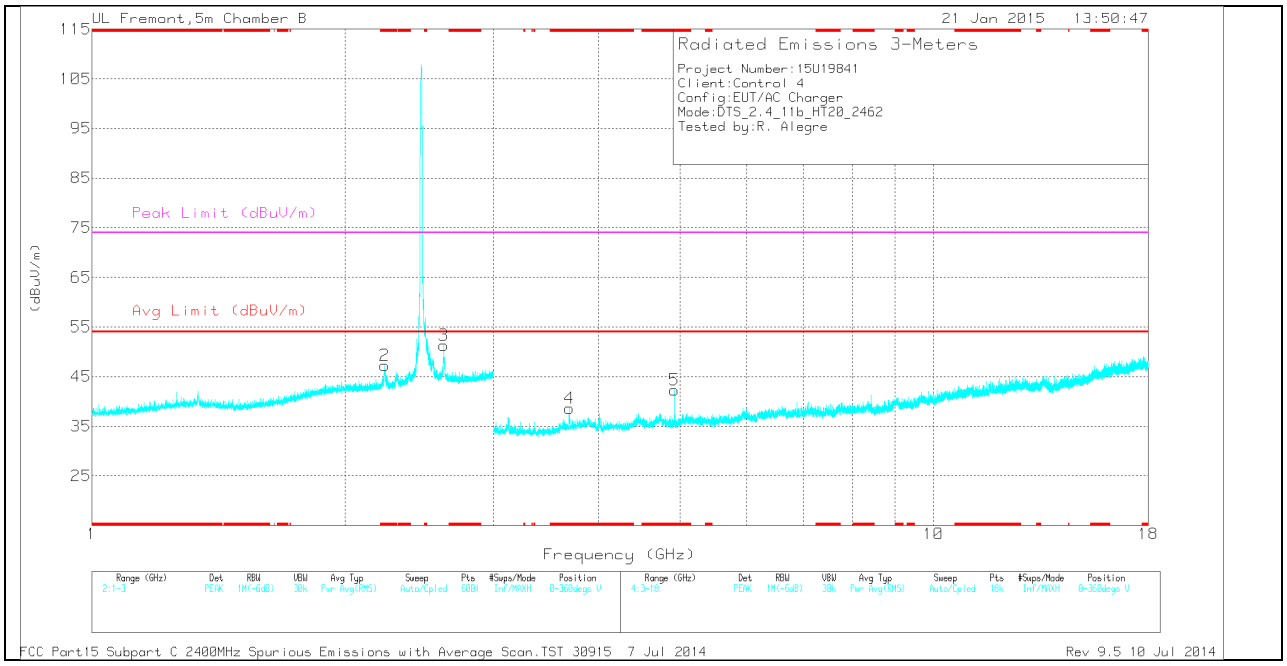
HIGH CHANNEL VERTICAL



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

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.336	39.62	PK	28.7	-24.1	0	44.22	-	-	74	-29.78	0-360	101	H
2	* 2.228	38.72	PK	31.4	-22.9	0	47.22	-	-	74	-26.78	0-360	199	V
6	* 4.924	39.44	PK	34.2	-30.5	0	43.14	-	-	74	-30.86	0-360	200	H
4	* 3.692	36.41	PK	33.3	-31.1	0	38.61	-	-	74	-35.39	0-360	101	V
5	* 4.924	38.63	PK	34.2	-30.5	0	42.33	-	-	74	-31.67	0-360	200	V
3	2.619	41.31	PK	32.4	-22.4	0	51.31	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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	44.99	PK2	34.2	-30.5	0	48.69	-	-	74	-25.31	266	164	H
* 4.924	38.7	MAv1	34.2	-30.5	0	42.4	54	-11.6	-	-	266	164	H
2.617	38.97	MAv1	32.4	-22.4	0	48.97	54	-5.03	-	-	192	186	V
2.621	51.68	PK2	32.4	-22.4	0	61.68	-	-	-	-	192	186	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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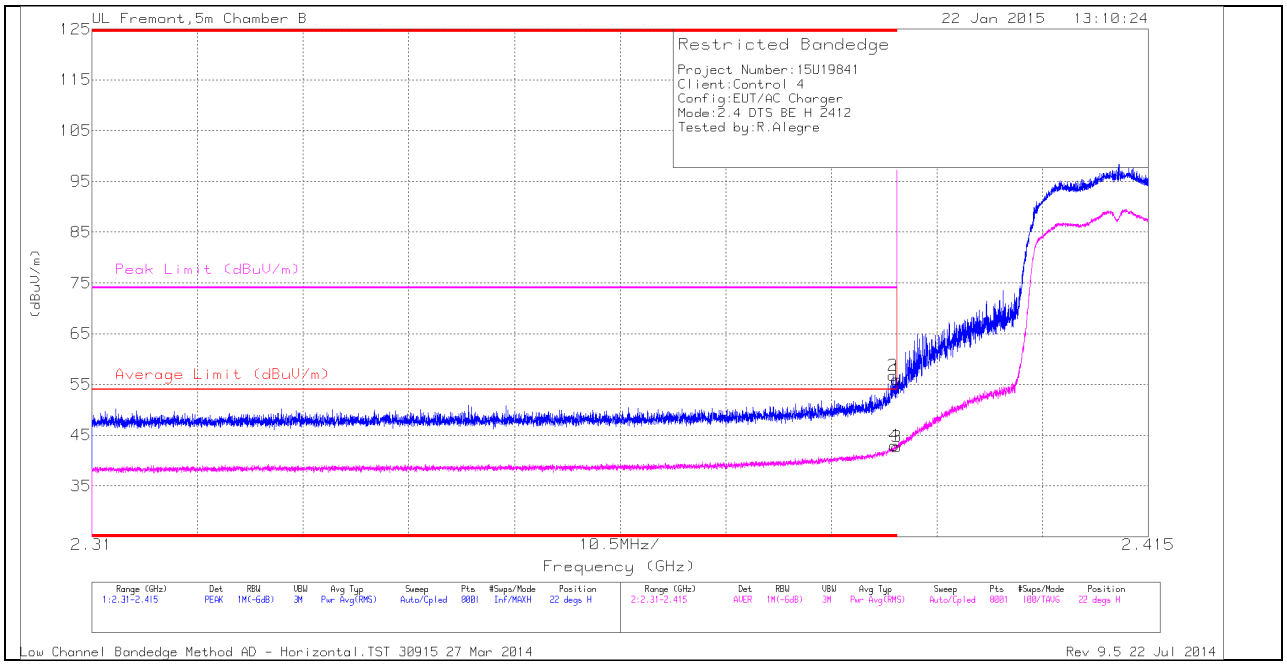
10.3.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	46.48	PK	32.1	-22.6	0	55.98	-	-	74	-18.02	22	325	H
2	* 2.39	47.24	PK	32.1	-22.6	0	56.74	-	-	74	-17.26	22	325	H
3	* 2.39	33.1	RMS	32.1	-22.6	.15	42.73	54	-11.27	-	-	22	325	H
4	* 2.39	33.3	RMS	32.1	-22.6	.15	42.93	54	-11.07	-	-	22	325	H

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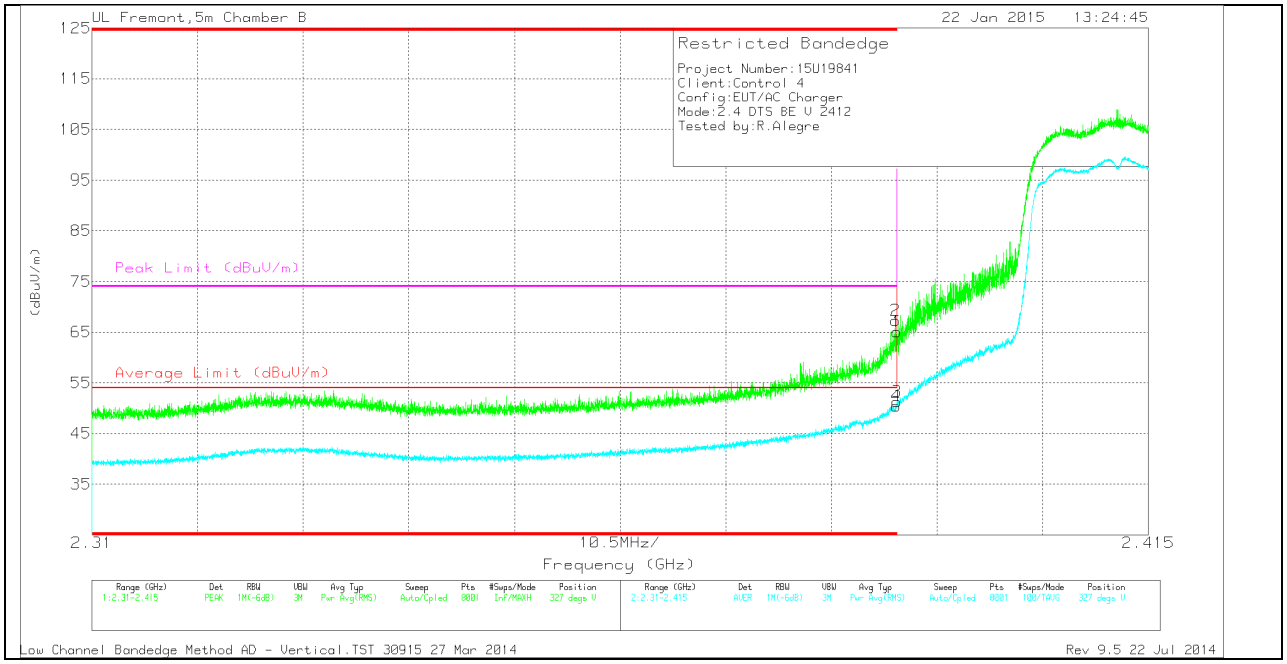
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	55.58	PK	32.1	-22.6	0	65.08	-	-	74	-8.92	327	168	V
2	* 2.39	57.75	PK	32.1	-22.6	0	67.25	-	-	74	-6.75	327	168	V
3	* 2.39	41.61	RMS	32.1	-22.6	.15	51.24	54	-2.76	-	-	327	168	V
4	* 2.39	40.84	RMS	32.1	-22.6	.15	50.47	54	-3.53	-	-	327	168	V

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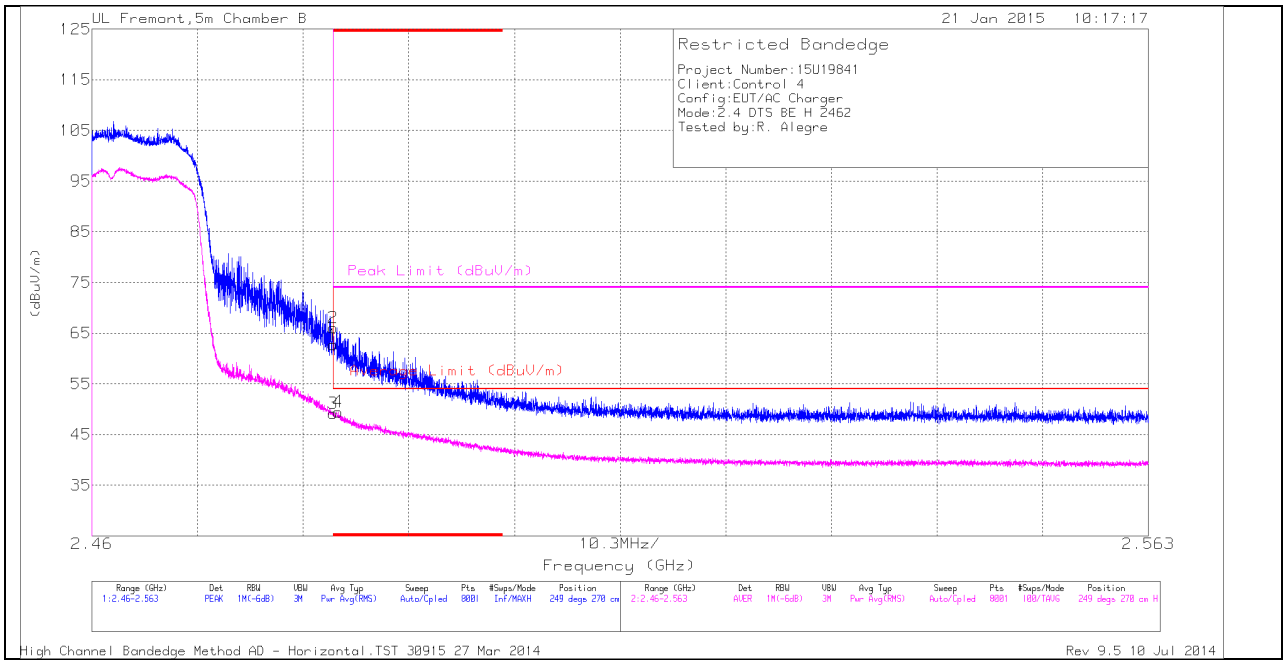
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	52.76	PK	32.4	-22.4	0	62.76	-	-	74	-11.24	249	270	H
2	* 2.484	56.09	PK	32.4	-22.4	0	66.09	-	-	74	-7.91	249	270	H
3	* 2.484	39.03	RMS	32.4	-22.4	.15	49.16	54	-4.84	-	-	249	270	H
4	* 2.484	39.35	RMS	32.4	-22.4	.15	49.48	54	-4.52	-	-	249	270	H

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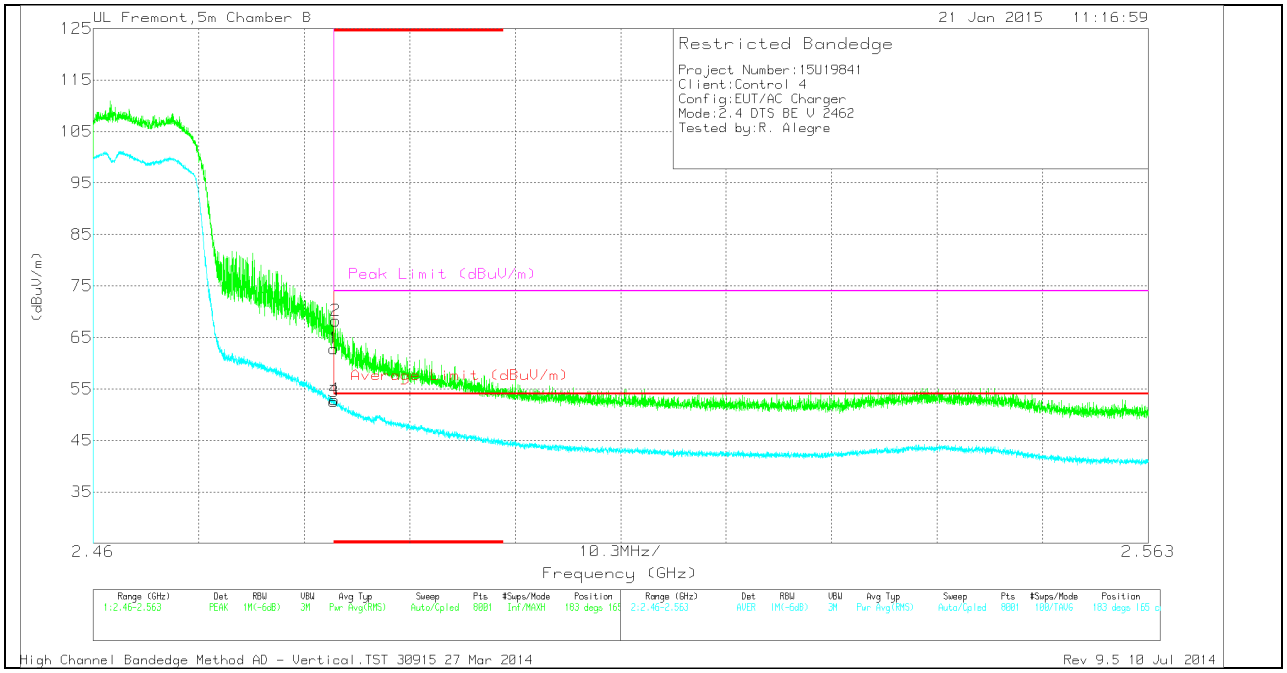
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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	52.85	PK	32.4	-22.4	0	62.85	-	-	74	-11.15	183	165	V
2	* 2.484	58.25	PK	32.4	-22.4	0	68.25	-	-	74	-5.75	183	165	V
3	* 2.484	42.53	RMS	32.4	-22.4	.15	52.66	54	-1.34	-	-	183	165	V
4	* 2.484	42.81	RMS	32.4	-22.4	.15	52.94	54	-1.06	-	-	183	165	V

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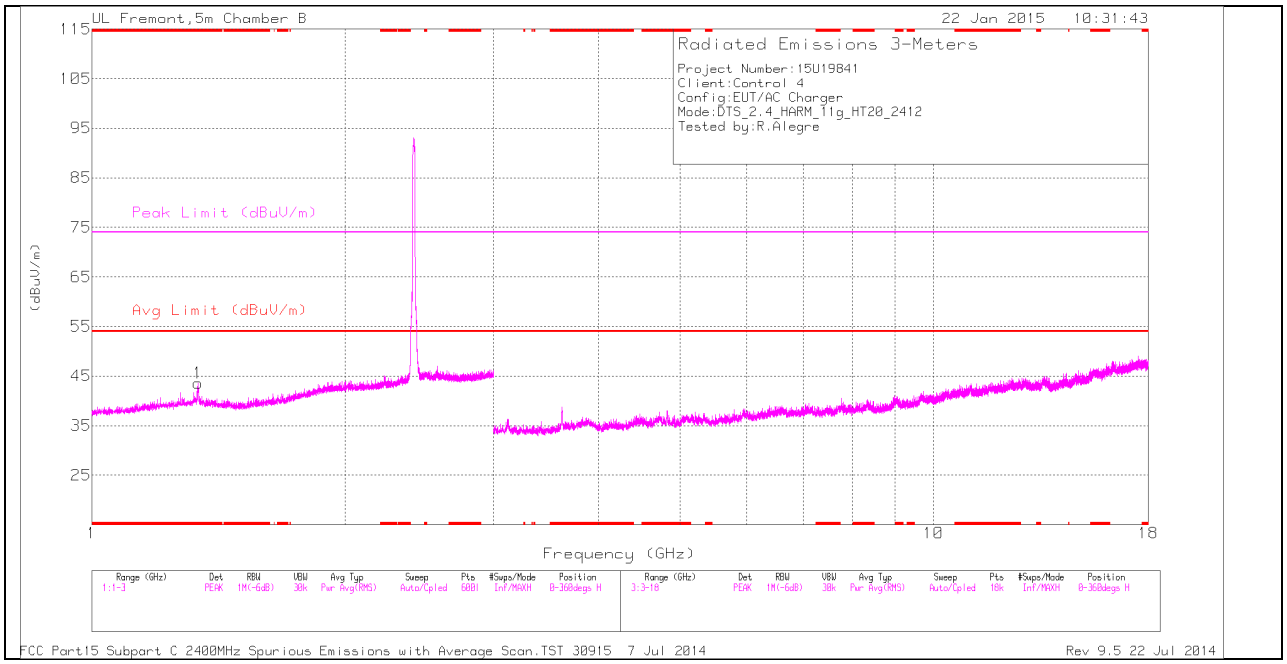
HARMONICS AND SPURIOUS EMISSIONS

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.

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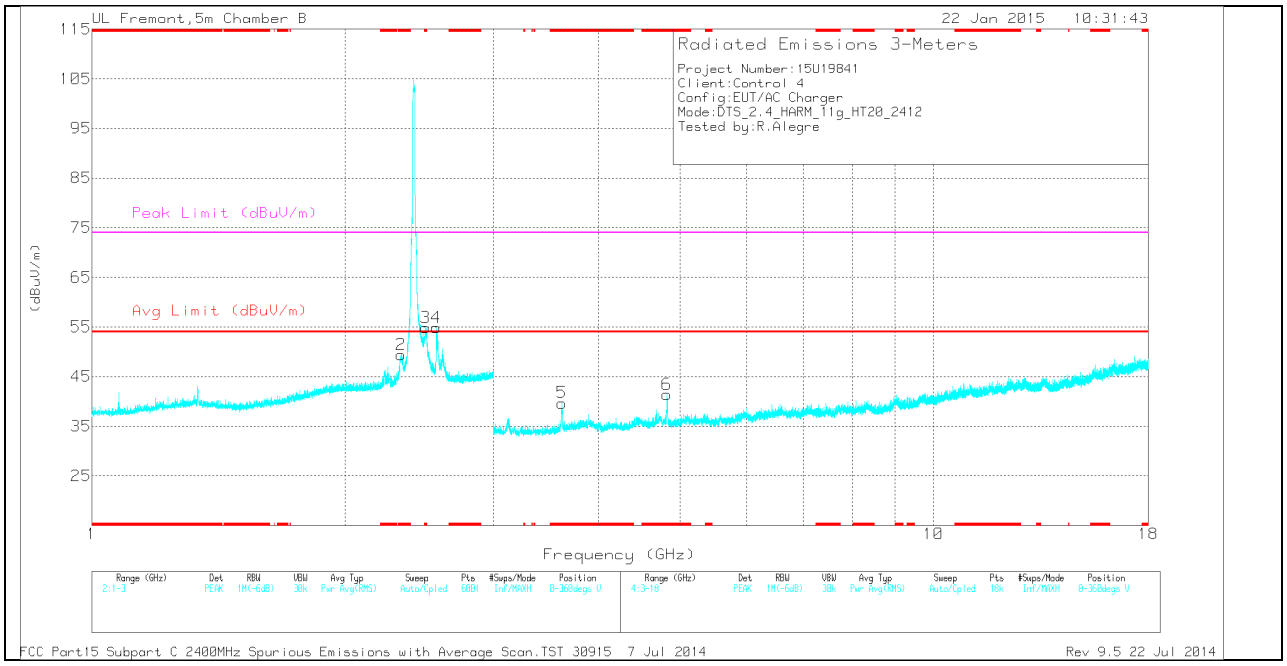
LOW CHANNEL VERTICAL



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

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.337	39.01	PK	28.7	-24.1	0	43.61	-	-	74	-30.39	0-360	101	H
2	* 2.331	40.33	PK	31.8	-22.7	0	49.43	-	-	74	-24.57	0-360	199	V
3	* 2.49	44.86	PK	32.4	-22.4	0	54.86	-	-	74	-19.14	0-360	199	V
5	* 3.617	37.2	PK	33.2	-30.7	0	39.7	-	-	74	-34.3	0-360	101	V
6	* 4.825	36.94	PK	34.2	-29.7	0	41.44	-	-	74	-32.56	0-360	199	V
4	2.566	44.79	PK	32.5	-22.4	0	54.89	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 2.489	53.64	PK2	32.4	-22.4	0	63.64	-	-	74	-10.36	347	207	V
* 2.491	41.97	MAv1	32.4	-22.4	.15	52.1	54	-1.9	-	-	347	207	V
* 4.823	44.35	PK2	34.2	-29.7	0	48.85	-	-	74	-25.15	223	145	V
* 4.825	32.93	MAv1	34.2	-29.7	.15	37.56	54	-16.44	-	-	223	145	V
2.566	40.71	MAv1	32.5	-22.4	.15	50.94	54	-3.06	-	-	8	124	V
2.567	51.85	PK2	32.5	-22.4	0	61.95	-	-	-	-	8	124	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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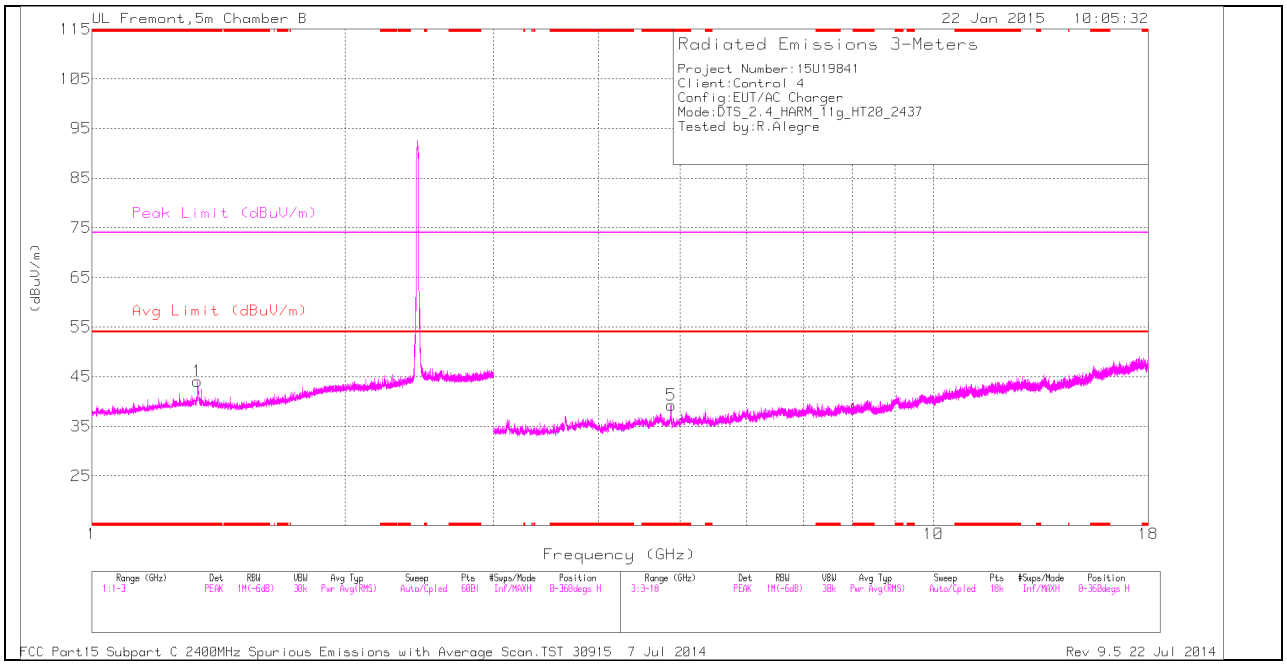
MID CHANNEL HORIZONTAL



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

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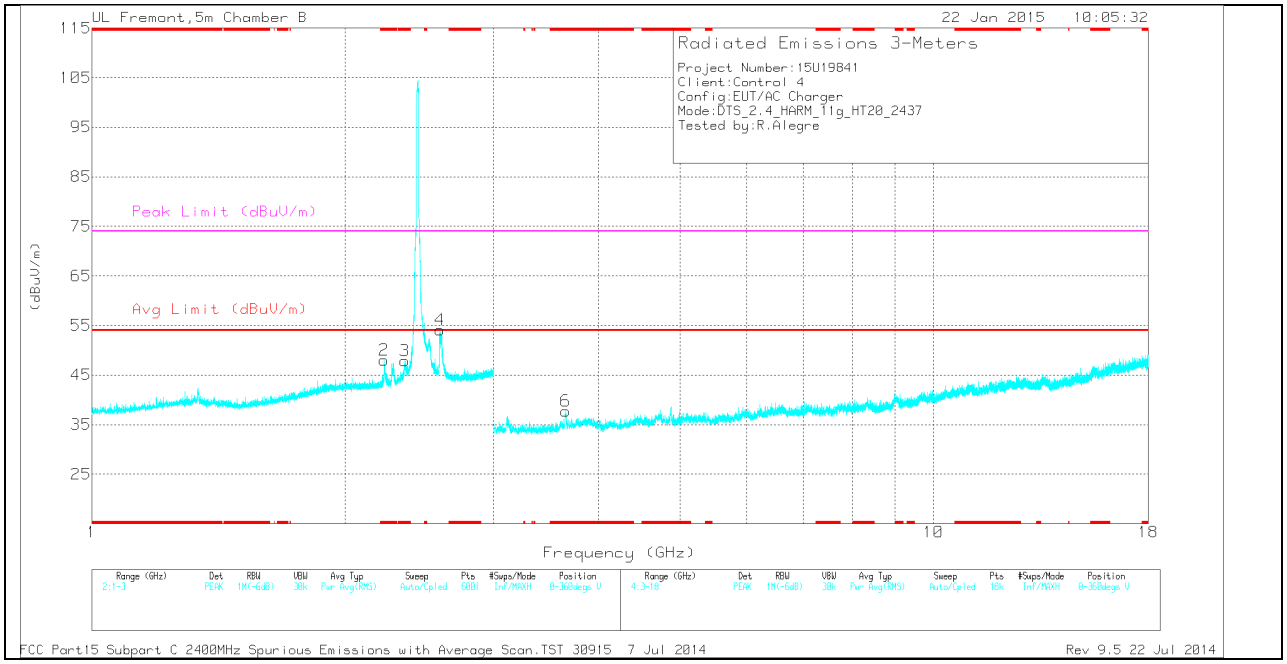
MID CHANNEL VERTICAL



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

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.335	39.46	PK	28.7	-24.1	0	44.06	-	-	74	-29.94	0-360	199	H
2	* 2.226	39.48	PK	31.4	-22.9	0	47.98	-	-	74	-26.02	0-360	101	V
3	* 2.355	38.6	PK	31.9	-22.6	0	47.9	-	-	74	-26.1	0-360	101	V
5	* 4.877	35.49	PK	34.2	-30.4	0	39.29	-	-	74	-34.71	0-360	200	H
6	* 3.657	35.3	PK	33.2	-30.8	0	37.7	-	-	74	-36.3	0-360	101	V
4	2.592	44.05	PK	32.5	-22.4	0	54.15	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 4.875	43.86	PK2	34.2	-30.4	0	47.66	-	-	74	-26.34	34	181	H
* 4.875	32.08	MAv1	34.2	-30.4	.15	36.01	54	-17.99	-	-	34	181	H
2.591	41.05	MAv1	32.5	-22.4	.15	51.28	54	-2.72	-	-	9	197	V
2.592	52.19	PK2	32.5	-22.4	0	62.29	-	-	-	-	9	197	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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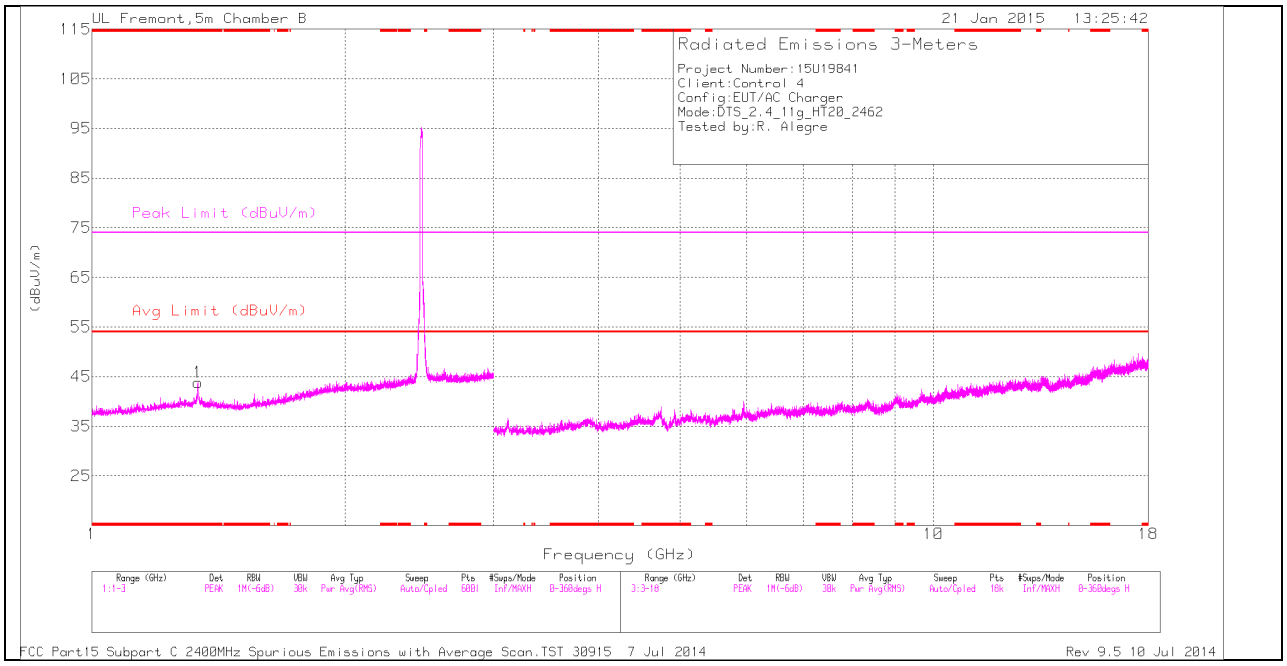
HIGH CHANNEL HORIZONTAL



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

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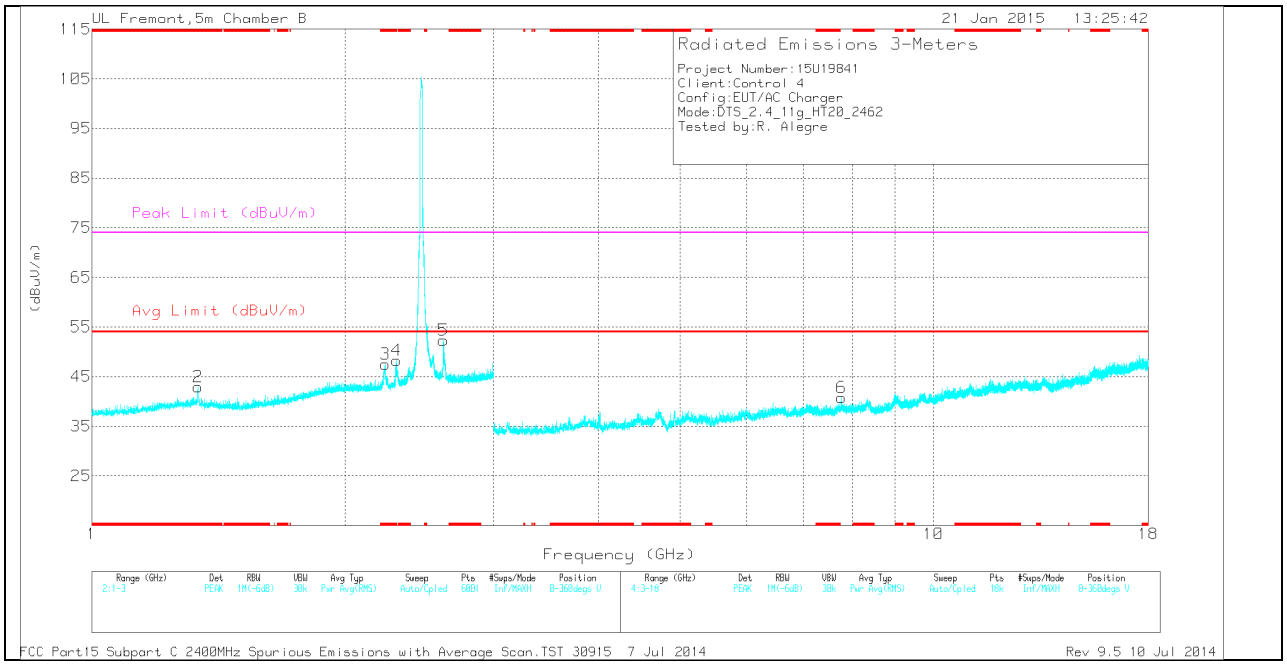
HIGH CHANNEL VERTICAL



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

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.336	39.23	PK	28.7	-24.1	0	43.83	-	-	74	-30.17	0-360	102	H
2	* 1.336	38.37	PK	28.7	-24.1	0	42.97	-	-	74	-31.03	0-360	199	V
3	* 2.231	39.03	PK	31.4	-22.9	0	47.53	-	-	74	-26.47	0-360	199	V
4	2.301	39.37	PK	31.6	-22.7	0	48.27	-	-	-	-	0-360	101	V
5	2.616	42.32	PK	32.4	-22.4	0	52.32	-	-	-	-	0-360	199	V
6	7.78	30.86	PK	35.7	-25.8	0	40.76	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
2.615	52.08	PK2	32.4	-22.4	0	62.08	-	-	-	-	170	150	V
2.615	40.99	MAv1	32.4	-22.4	.15	51.12	54	-2.88	74	-	170	150	V

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

RMS - RMS detection

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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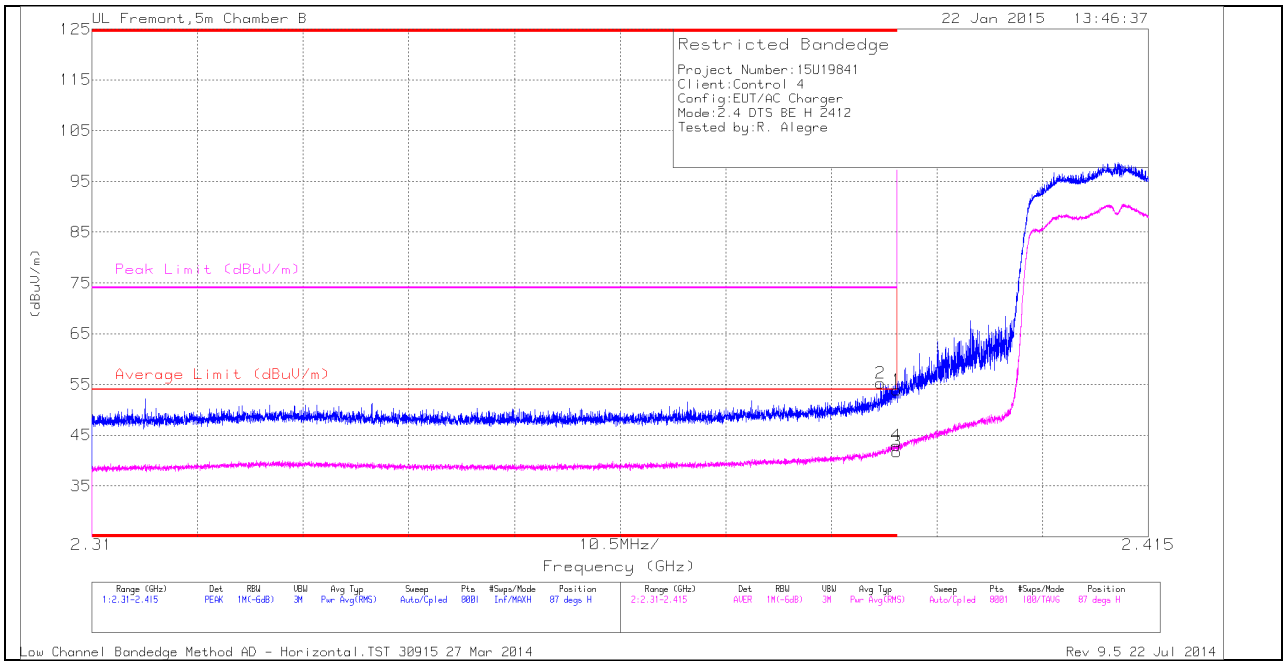
10.3.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/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	* 2.388	45.76	PK	32.1	-22.6	0	55.26	-	-	74	-18.74	87	189	H
1	* 2.39	44.38	PK	32.1	-22.6	0	53.88	-	-	74	-20.12	87	189	H
3	* 2.39	32.12	RMS	32.1	-22.6	.16	41.76	54	-12.24	-	-	87	189	H
4	* 2.39	33.31	RMS	32.1	-22.6	.16	42.95	54	-11.05	-	-	87	189	H

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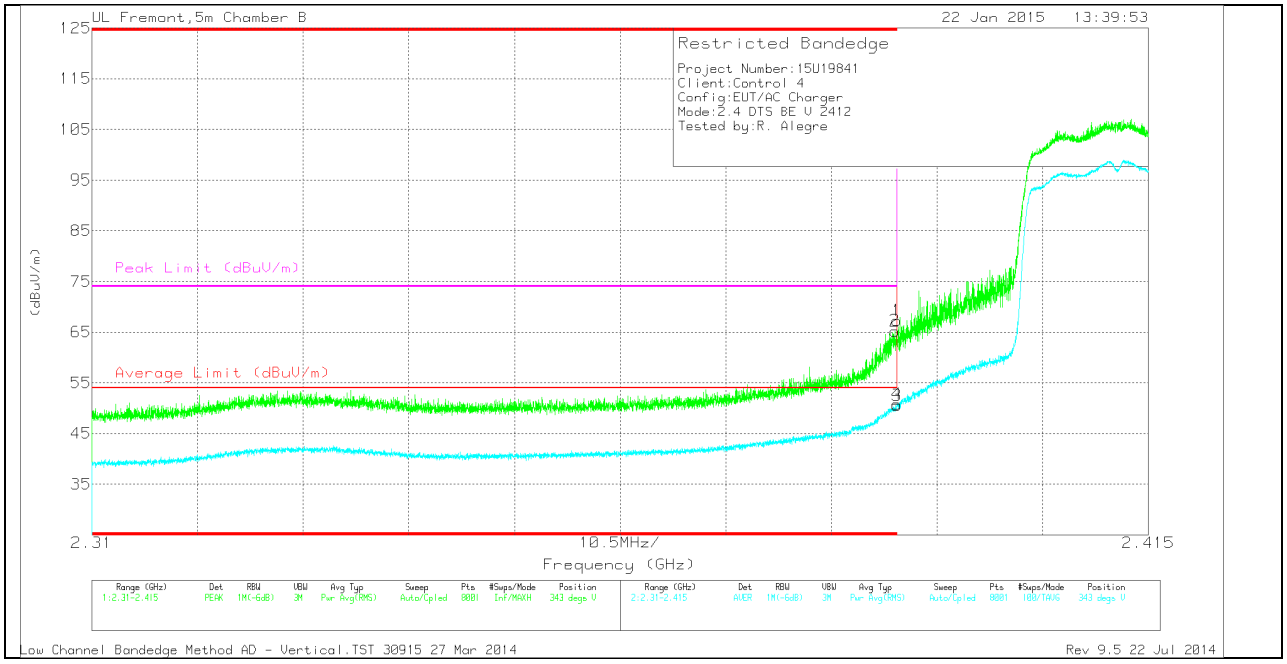
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	57.76	PK	32.1	-22.6	0	67.26	-	-	74	-6.74	343	171	V
2	* 2.39	55.75	PK	32.1	-22.6	0	65.25	-	-	74	-8.75	343	171	V
3	* 2.39	40.9	RMS	32.1	-22.6	.16	50.54	54	-3.46	-	-	343	171	V
4	* 2.39	41.16	RMS	32.1	-22.6	.16	50.8	54	-3.2	-	-	343	171	V

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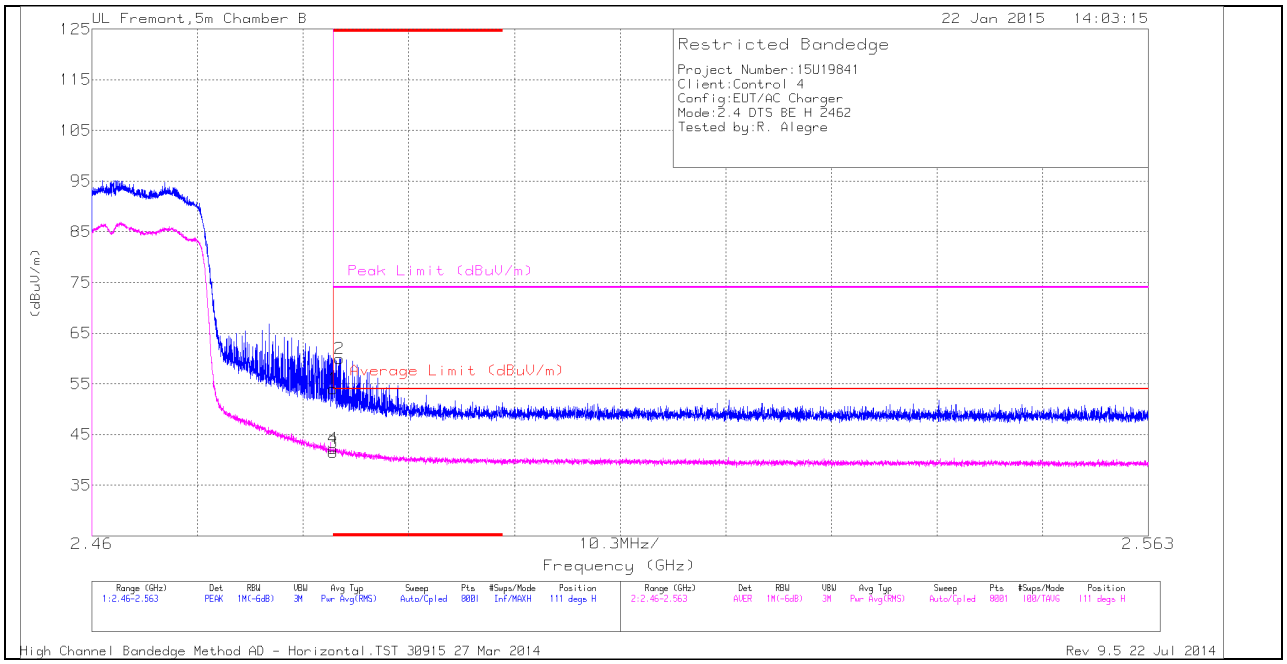
AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	43.96	PK	32.4	-22.4	0	53.96	-	-	74	-20.04	111	183	H
2	* 2.484	49.99	PK	32.4	-22.4	0	59.99	-	-	74	-14.01	111	183	H
3	* 2.484	31.28	RMS	32.4	-22.4	.16	41.42	54	-12.58	-	-	111	183	H
4	* 2.484	32.06	RMS	32.4	-22.4	.16	42.2	54	-11.8	-	-	111	183	H

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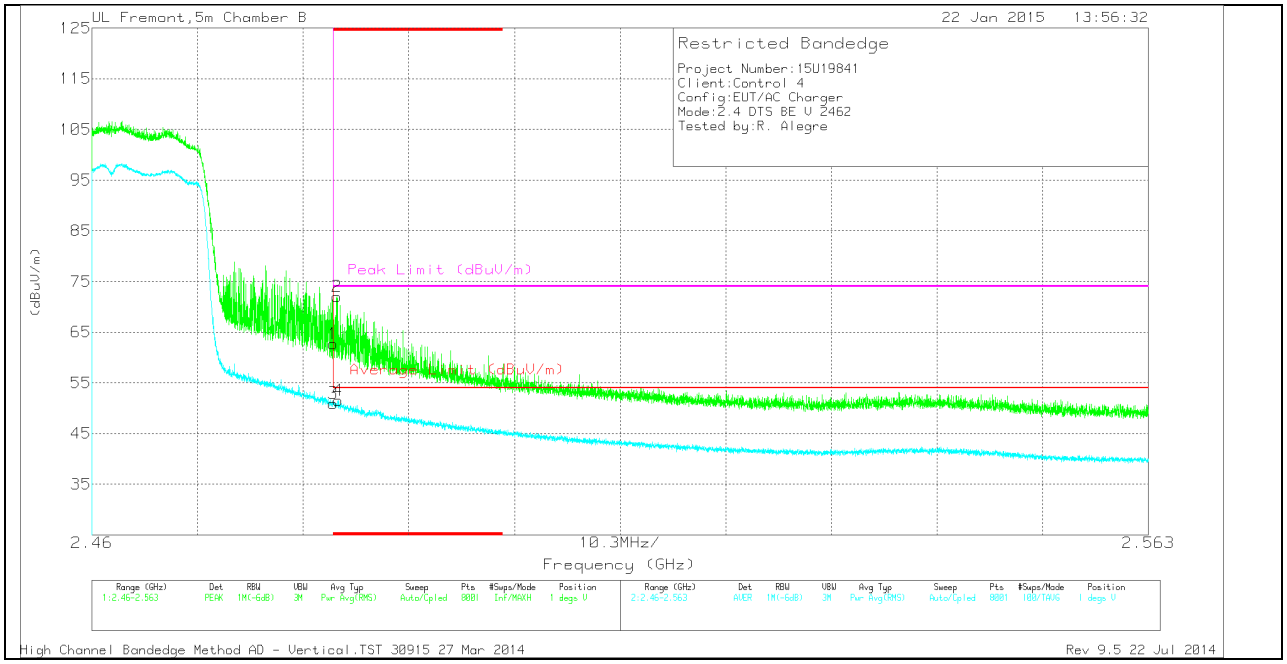
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt 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	52.71	PK	32.4	-22.4	0	62.71	-	-	74	-11.29	1	103	V
2	* 2.484	62.05	PK	32.4	-22.4	0	72.05	-	-	74	-1.95	1	103	V
3	* 2.484	40.83	RMS	32.4	-22.4	.16	50.97	54	-3.03	-	-	1	103	V
4	* 2.484	41.41	RMS	32.4	-22.4	.16	51.55	54	-2.45	-	-	1	103	V

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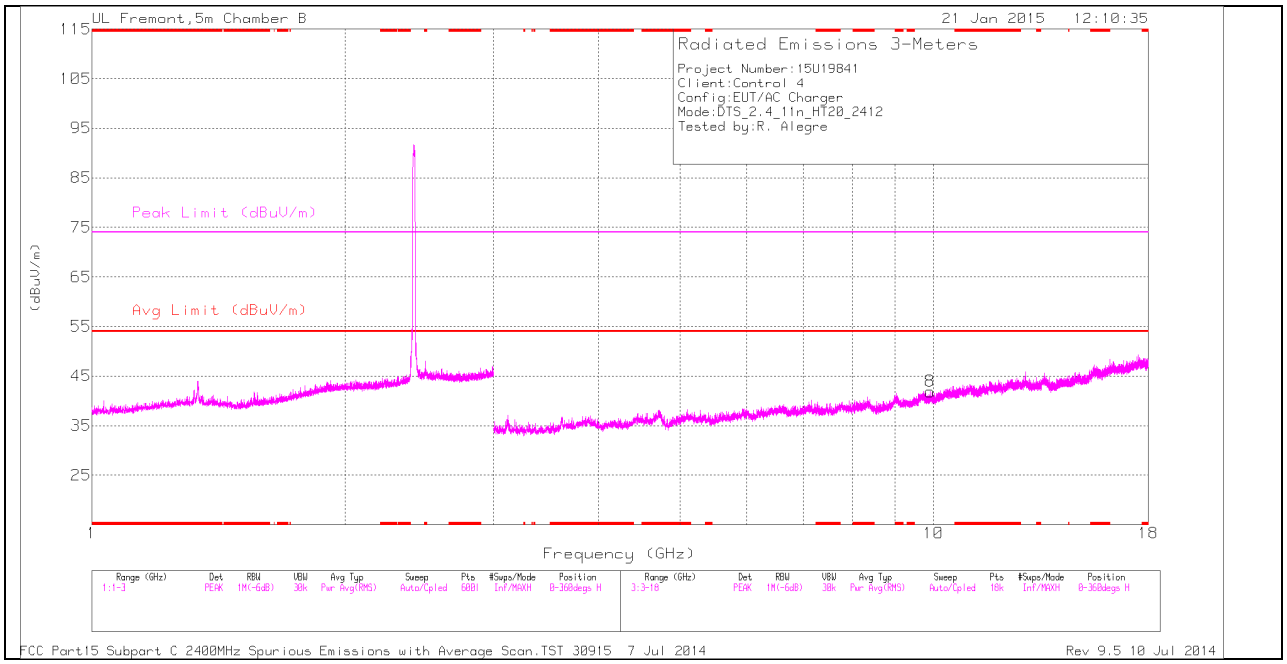
HARMONICS AND SPURIOUS EMISSIONS

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.

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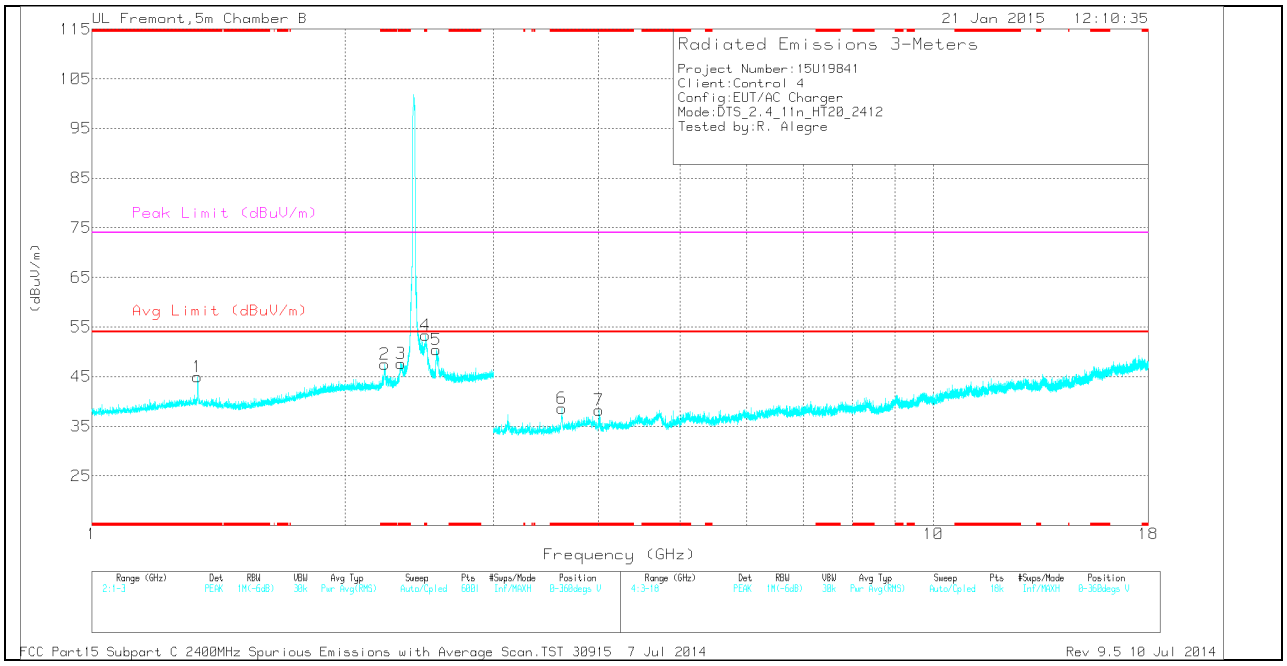
LOW CHANNEL VERTICAL



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

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LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.336	40.31	PK	28.7	-24.1	0	44.91	-	-	74	-29.09	0-360	200	V
2	* 2.229	39.01	PK	31.4	-22.9	0	47.51	-	-	74	-26.49	0-360	101	V
3	* 2.331	38.59	PK	31.8	-22.7	0	47.69	-	-	74	-26.31	0-360	101	V
4	* 2.49	43.31	PK	32.4	-22.4	0	53.31	-	-	74	-20.69	0-360	200	V
6	* 3.617	36.08	PK	33.2	-30.7	0	38.58	-	-	74	-35.42	0-360	101	V
7	* 4.007	35.63	PK	33.6	-31	0	38.23	-	-	74	-35.77	0-360	200	V
5	2.566	40.37	PK	32.5	-22.4	0	50.47	-	-	-	-	0-360	200	V
8	9.91	28.46	PK	37	-23.6	0	41.86	-	-	-	-	0-360	101	H

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 2.49	52.67	PK2	32.4	-22.4	0	62.67	-	-	74	-11.33	186	200	V
* 2.49	40.39	MAv1	32.4	-22.4	.16	50.53	54	-3.47	-	-	186	200	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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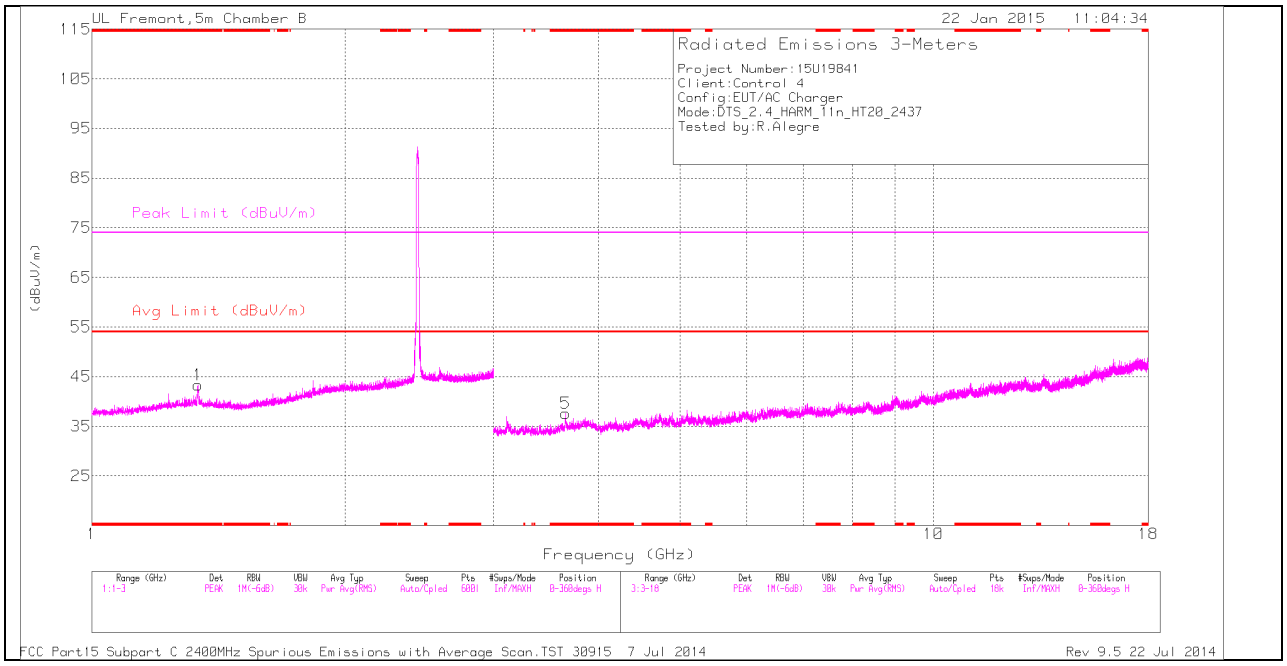
MID CHANNEL HORIZONTAL



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

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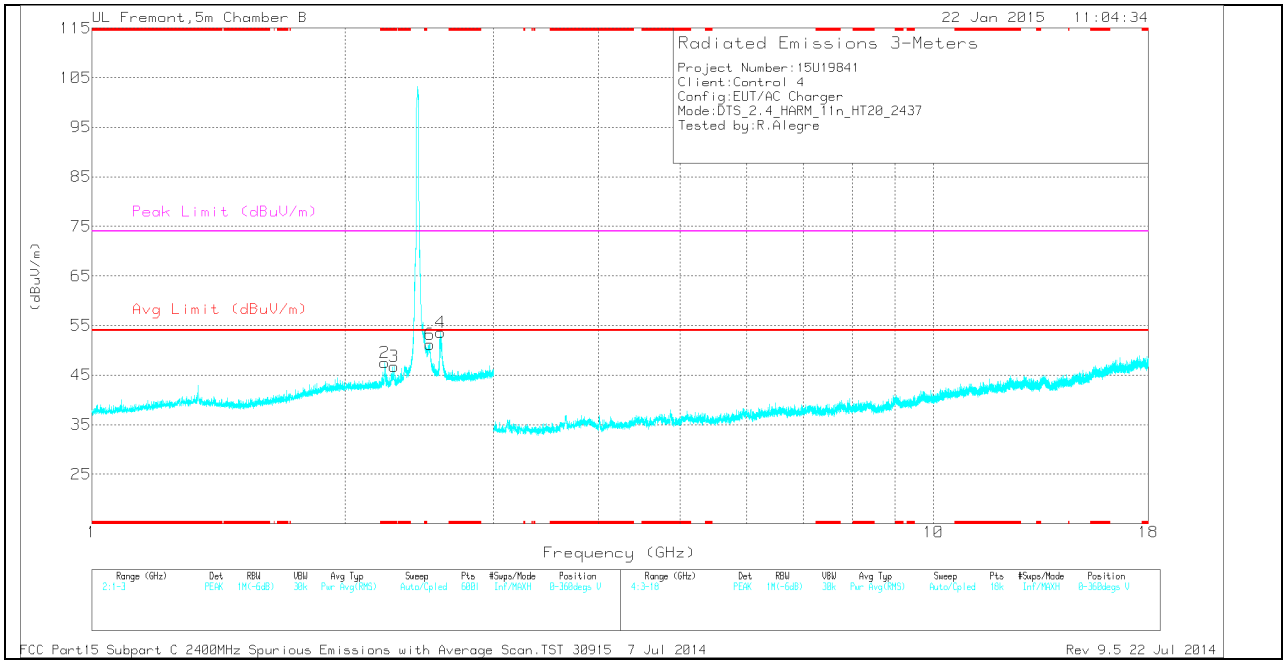
MID CHANNEL VERTICAL



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

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MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.337	38.66	PK	28.7	-24.1	0	43.26	-	-	74	-30.74	0-360	101	H
2	* 2.229	38.96	PK	31.4	-22.9	0	47.46	-	-	74	-26.54	0-360	101	V
3	* 2.285	37.92	PK	31.6	-22.8	0	46.72	-	-	74	-27.28	0-360	199	V
5	* 3.657	35.25	PK	33.2	-30.8	0	37.65	-	-	74	-36.35	0-360	199	H
6	2.52	40.96	PK	32.5	-22.3	0	51.16	-	-	-	-	0-360	199	V
4	2.597	43.53	PK	32.5	-22.4	0	53.63	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 2.228	50.21	PK2	31.4	-22.9	0	58.71	-	-	74	-15.29	181	138	V
* 2.228	34.12	MAv1	31.4	-22.9	.16	42.76	54	-11.24	-	-	181	138	V
* 3.657	32.86	PK2	33.2	-30.8	0	35.26	-	-	74	-38.74	355	199	H
* 3.659	30.02	MAv1	33.2	-30.8	.16	32.56	54	-21.44	-	-	355	199	H
2.599	51.04	PK2	32.5	-22.4	0	61.14	-	-	-	-	355	120	V
2.599	37.83	MAv1	32.5	-22.4	.16	48.07	54	-5.93	-	-	355	120	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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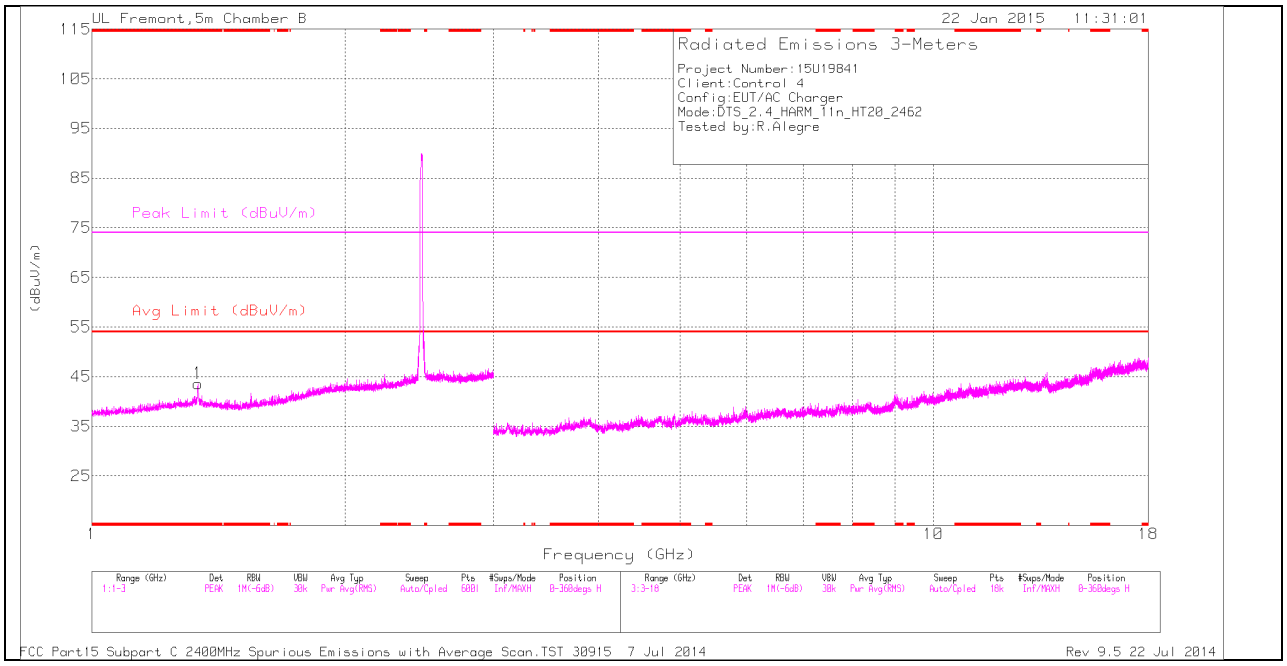
HIGH CHANNEL HORIZONTAL



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

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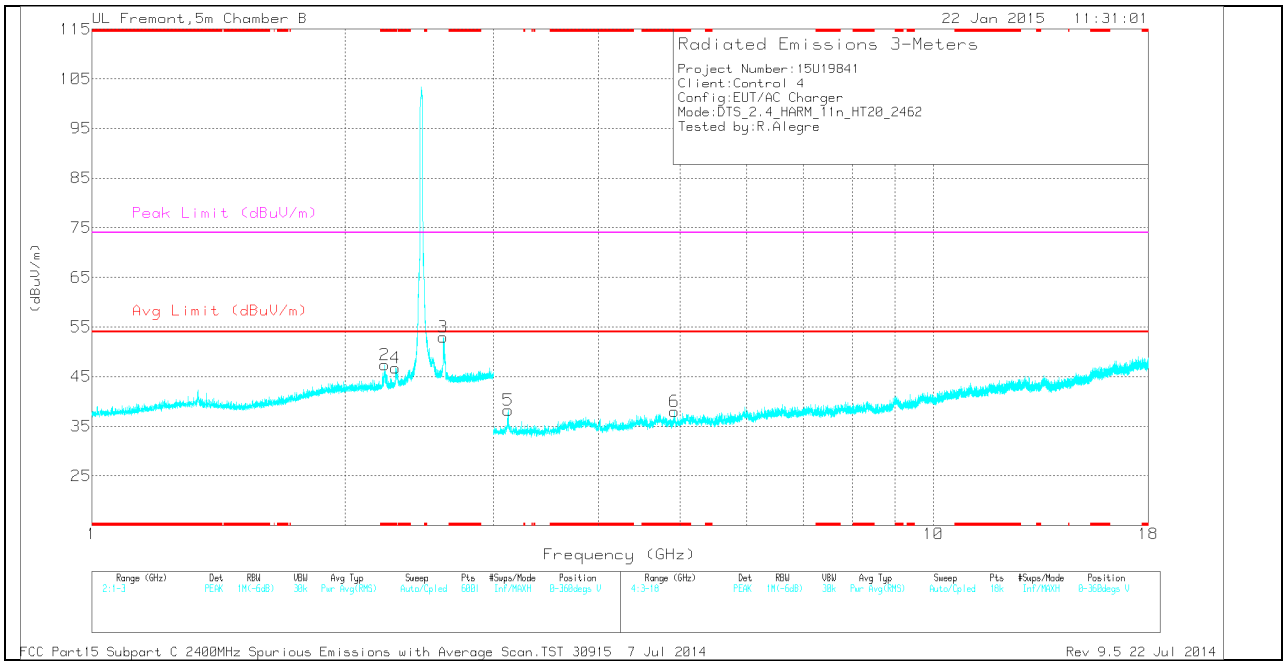
HIGH CHANNEL VERTICAL



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

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HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr /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	* 1.336	39.03	PK	28.7	-24.1	0	43.63	-	-	74	-30.37	0-360	101	H
2	* 2.229	38.82	PK	31.4	-22.9	0	47.32	-	-	74	-26.68	0-360	101	V
4	* 2.296	37.82	PK	31.6	-22.7	0	46.72	-	-	74	-27.28	0-360	200	V
6	* 4.919	34.32	PK	34.2	-30.5	0	38.02	-	-	74	-35.98	0-360	101	V
3	2.614	42.99	PK	32.4	-22.4	0	52.99	-	-	-	-	0-360	200	V
5	3.123	36.53	PK	32.8	-31.1	0	38.23	-	-	-	-	0-360	199	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/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
* 1.335	50.41	PK2	28.7	-24.1	0	55.01	-	-	74	-18.99	93	221	H
* 1.337	35.25	MAv1	28.7	-24.1	.16	39.99	54	-14.01	-	-	93	221	H
* 2.228	35.87	PK2	31.4	-22.9	0	44.37	-	-	74	-29.63	93	102	V
* 2.228	31.99	MAv1	31.4	-22.9	.16	40.63	54	-13.51	-	-	93	102	V
2.614	32.49	MAv1	32.4	-22.4	.16	42.63	54	-11.37	-	-	353	232	V
2.616	51.76	PK2	32.4	-22.4	0	61.76	-	-	-	-	353	232	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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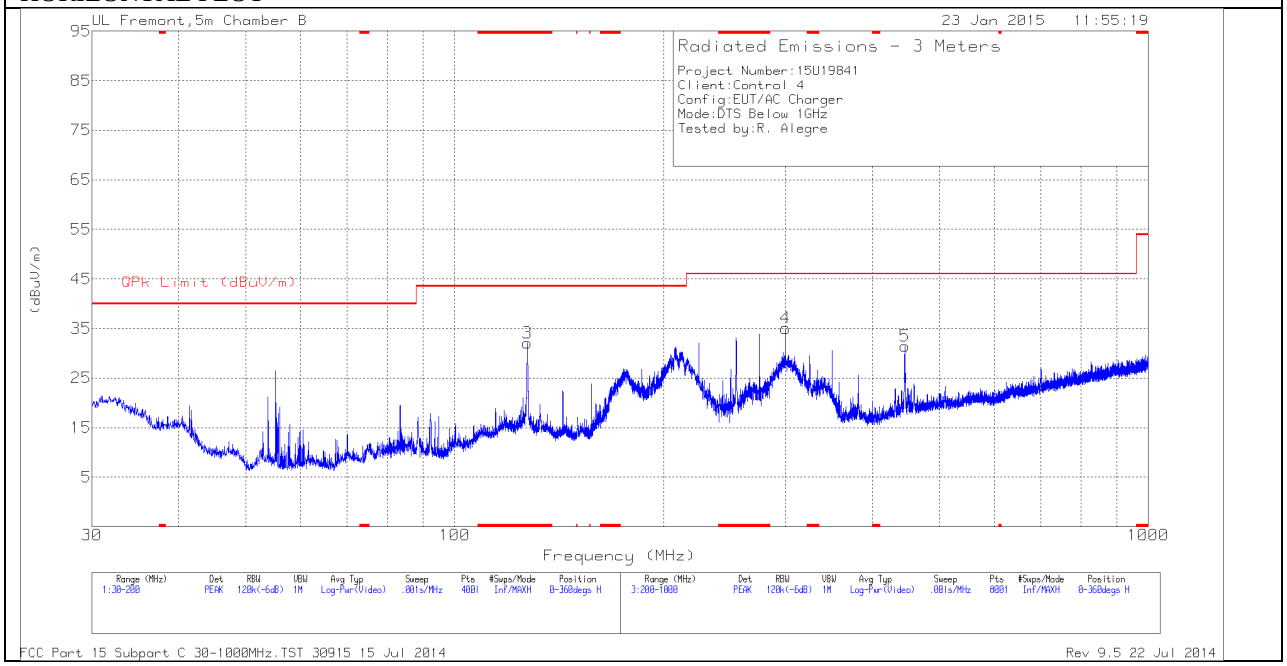
10.1. WORST-CASE BELOW 1 GHz (C4-WALL7)

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

HORIZONTAL PLOT



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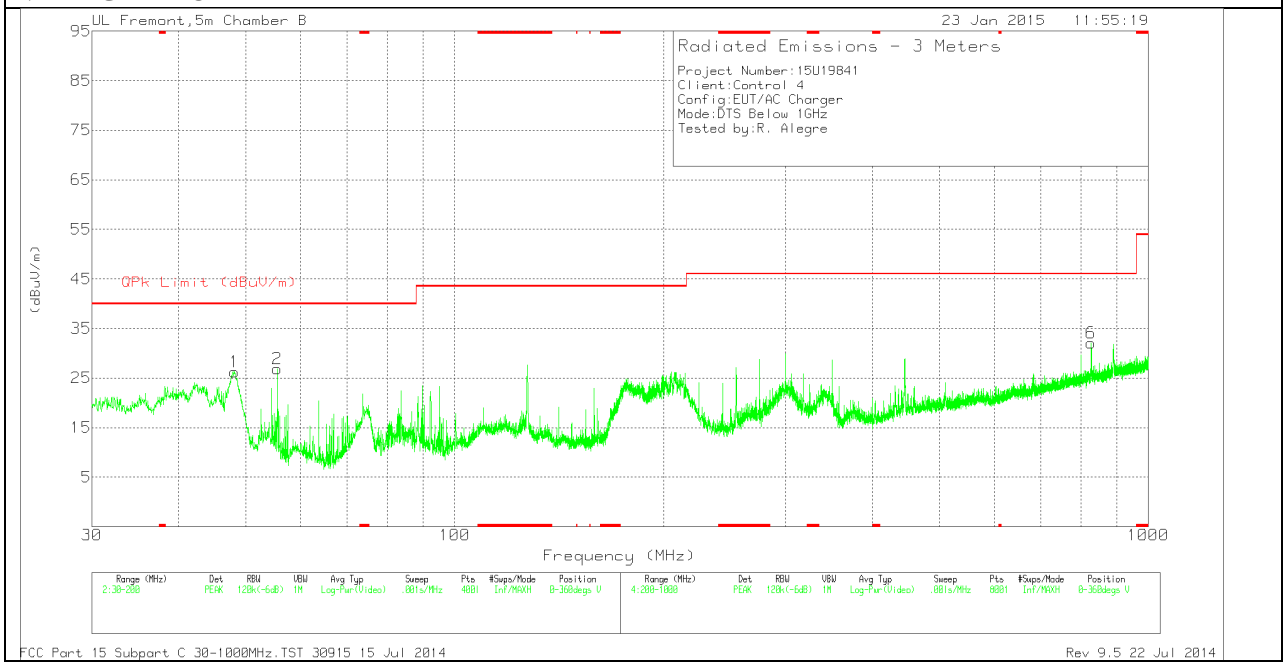
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



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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
3	* 127.2825	45.78	PK	14.1	-27.8	32.08	43.52	-11.44	0-360	200	H
1	48.1475	46.01	PK	8.9	-28.7	26.21	40	-13.79	0-360	101	V
2	55.5425	48.18	PK	7.3	-28.6	26.88	40	-13.12	0-360	101	V
4	300	47.66	PK	13.4	-26	35.06	46.02	-10.96	0-360	101	H
5	445.6	40.87	PK	16.5	-25.9	31.47	46.02	-14.55	0-360	200	H
6	827.6	33.99	PK	21.8	-23.7	32.09	46.02	-13.93	0-360	200	V

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

PK - Peak detector

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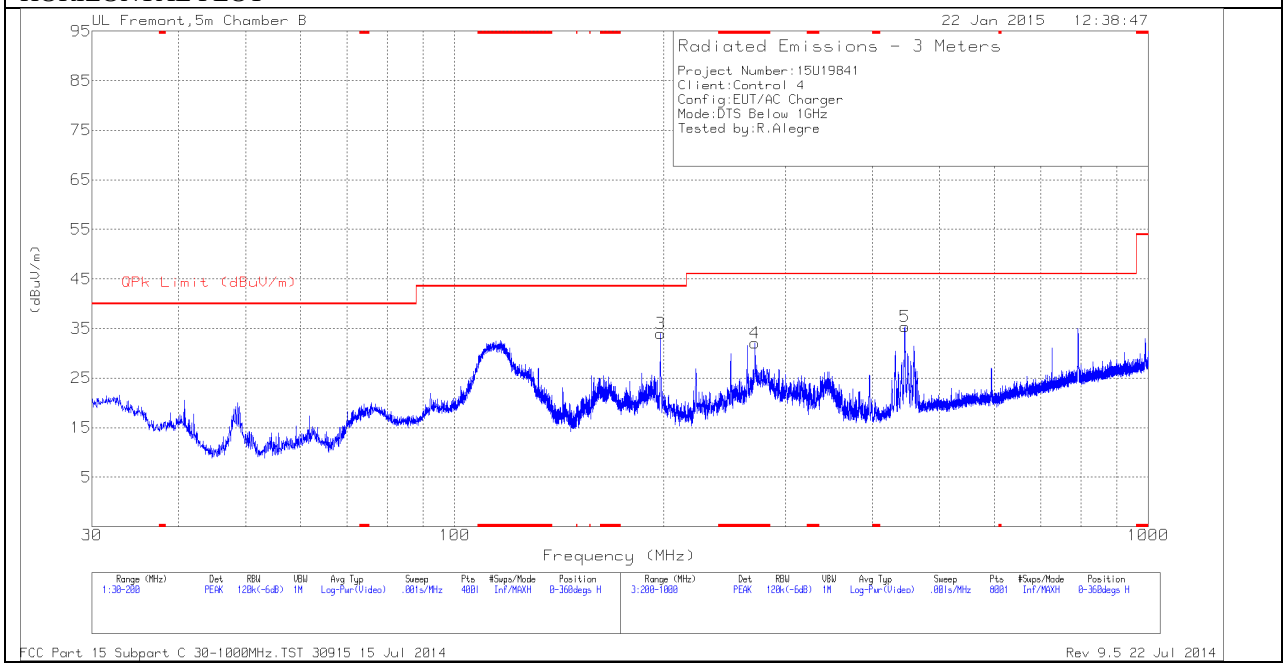
10.2. WORST-CASE BELOW 1 GHz (C4-WALL10)

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

HORIZONTAL PLOT



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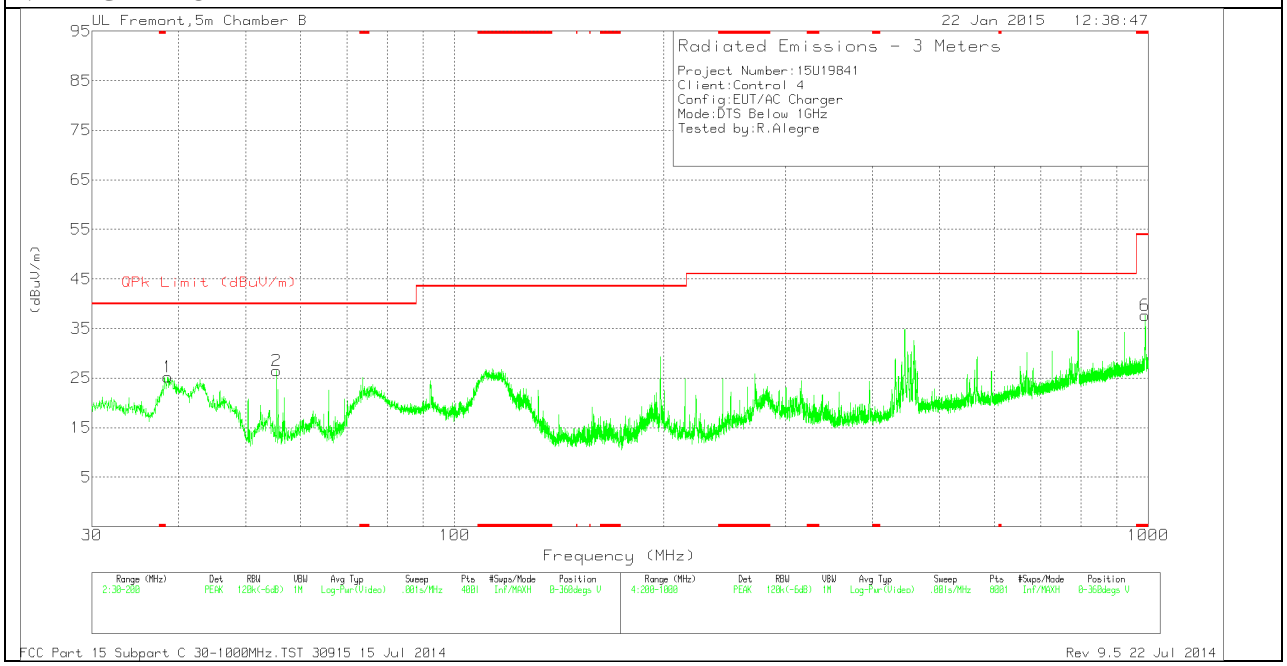
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



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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	* 270.9	44.99	PK	13.4	-26.3	32.09	46.02	-13.93	0-360	101	H
6	* 990	36.67	PK	23.3	-22.3	37.67	53.97	-16.3	0-360	101	V
1	38.6275	39.05	PK	15	-28.8	25.25	40	-14.75	0-360	101	V
2	55.3725	47.78	PK	7.3	-28.6	26.48	40	-13.52	0-360	101	V
3	198.045	48.52	PK	12.5	-27	34.02	43.52	-9.5	0-360	100	H
5	445.7	44.8	PK	16.5	-25.9	35.4	46.02	-10.62	0-360	200	H

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

PK - Peak detector

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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.

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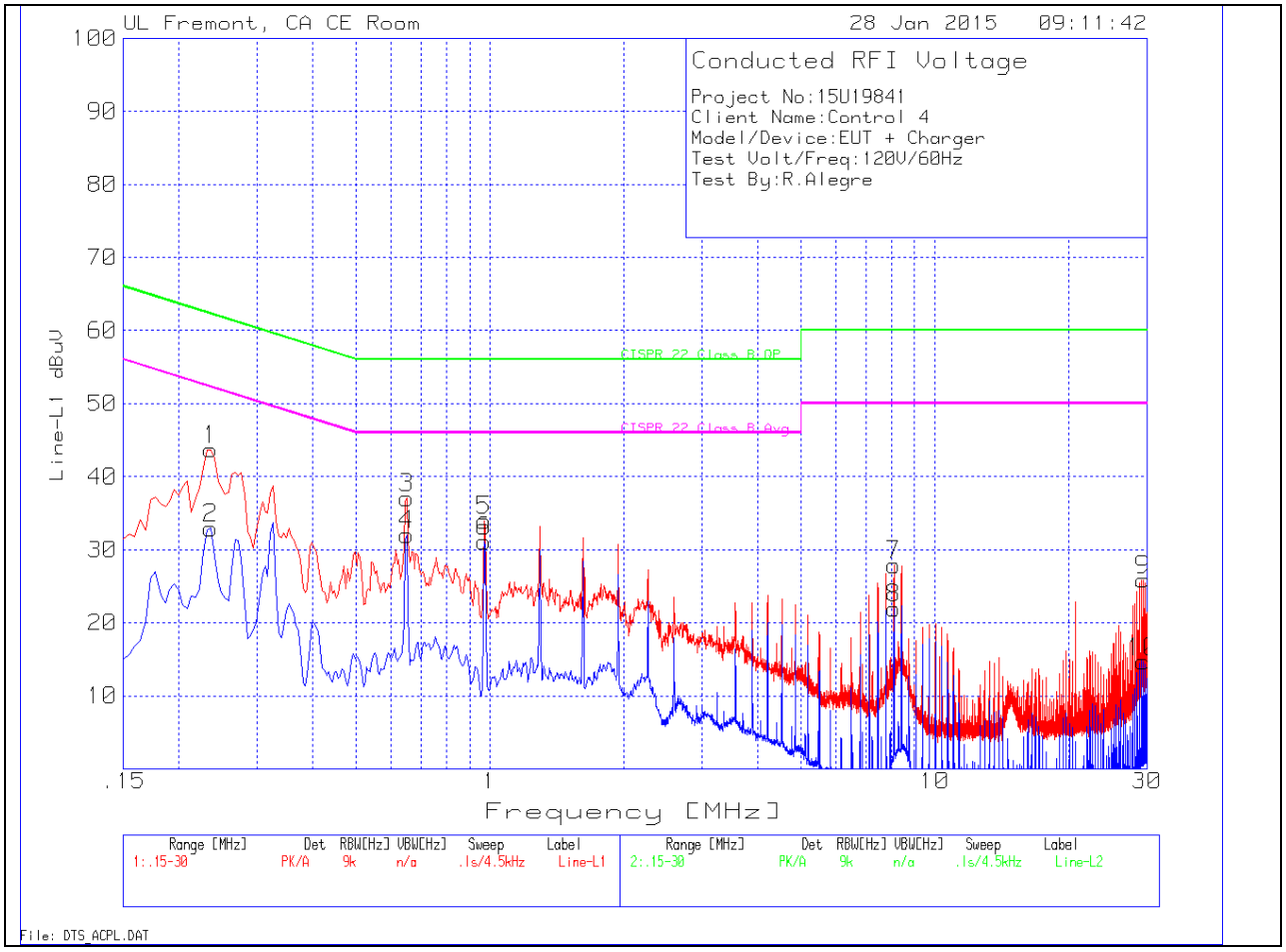
11.1.1. LINE CONDUCTED EMISSIONS (C4-WALL7)

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



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LINE 1 RESULTS

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	.2355	42.92	PK	.8	0	43.72	62.3	-18.58	-	-
2	.2355	32.19	Av	.8	0	32.99	-	-	52.3	-19.31
3	.6495	36.79	PK	.3	0	37.09	56	-18.91	-	-
4	.6495	31.75	Av	.3	0	32.05	-	-	46	-13.95
5	.969	33.71	PK	.3	0	34.01	56	-21.99	-	-
6	.969	30.85	Av	.3	0	31.15	-	-	46	-14.85
7	8.0925	27.58	PK	.2	.1	27.88	60	-32.12	-	-
8	8.0925	21.67	Av	.2	.1	21.97	-	-	50	-28.03
9	29.4405	25.29	PK	.3	.3	25.89	60	-34.11	-	-
10	29.4405	14.06	Av	.3	.3	14.66	-	-	50	-35.34

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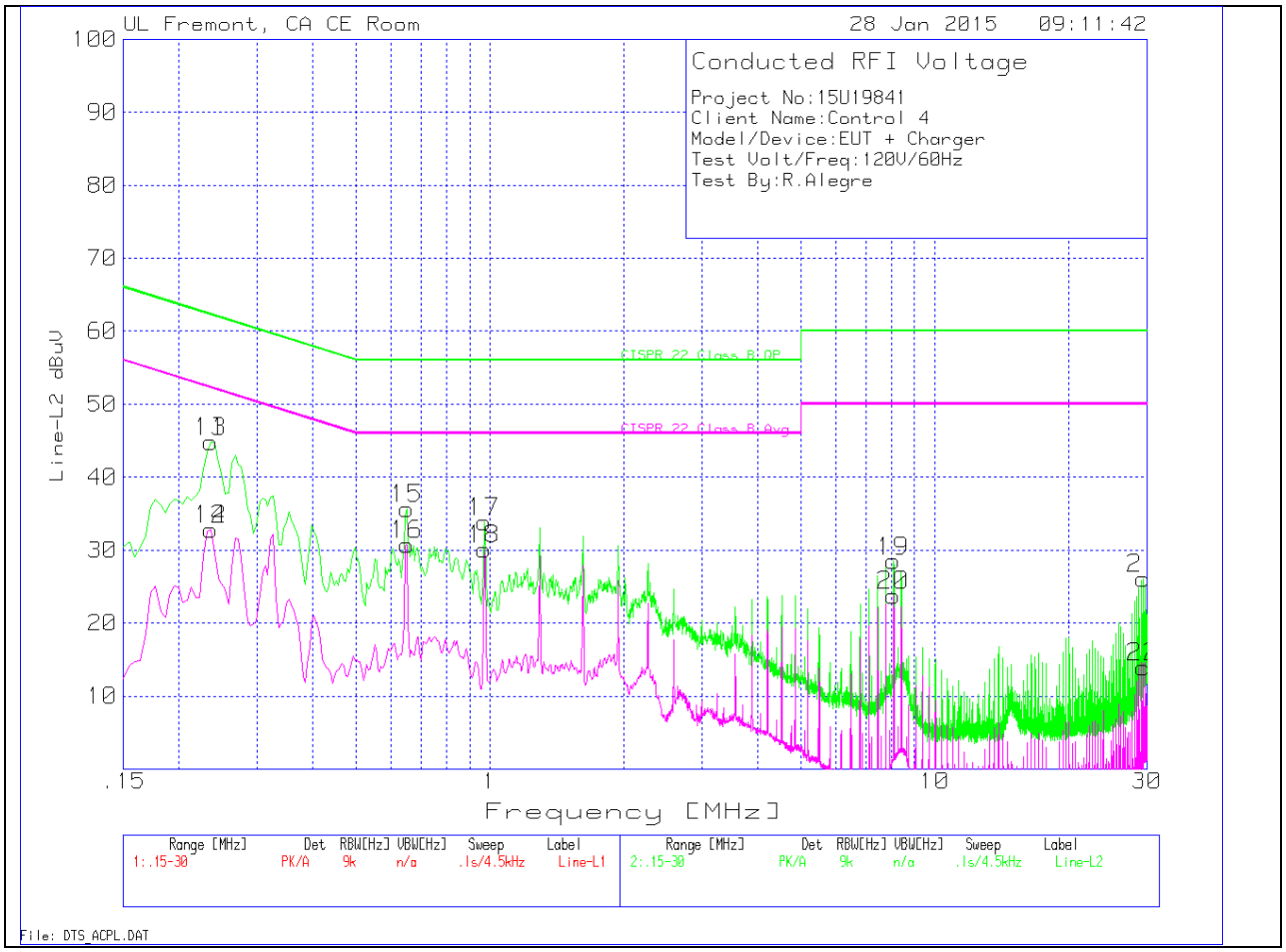
LINE 2 PLOT



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LINE 2 RESULTS

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)
11	.2355	44.06	PK	.8	0	44.86	62.3	-17.44	-	-
12	.2355	32.02	Av	.8	0	32.82	-	-	52.3	-19.48
13	.2355	44.06	PK	.8	0	44.86	62.3	-17.44	-	-
14	.2355	32.02	Av	.8	0	32.82	-	-	52.3	-19.48
15	.6495	35.32	PK	.3	0	35.62	56	-20.38	-	-
16	.6495	30.41	Av	.3	0	30.71	-	-	46	-15.29
17	.969	33.53	PK	.3	0	33.83	56	-22.17	-	-
18	.969	29.76	Av	.3	0	30.06	-	-	46	-15.94
19	8.088	28.18	PK	.2	.1	28.48	60	-31.52	-	-
20	8.088	23.46	Av	.2	.1	23.76	-	-	50	-26.24
21	29.4315	25.45	PK	.3	.3	26.05	60	-33.95	-	-
22	29.4315	13.38	Av	.3	.3	13.98	-	-	50	-36.02

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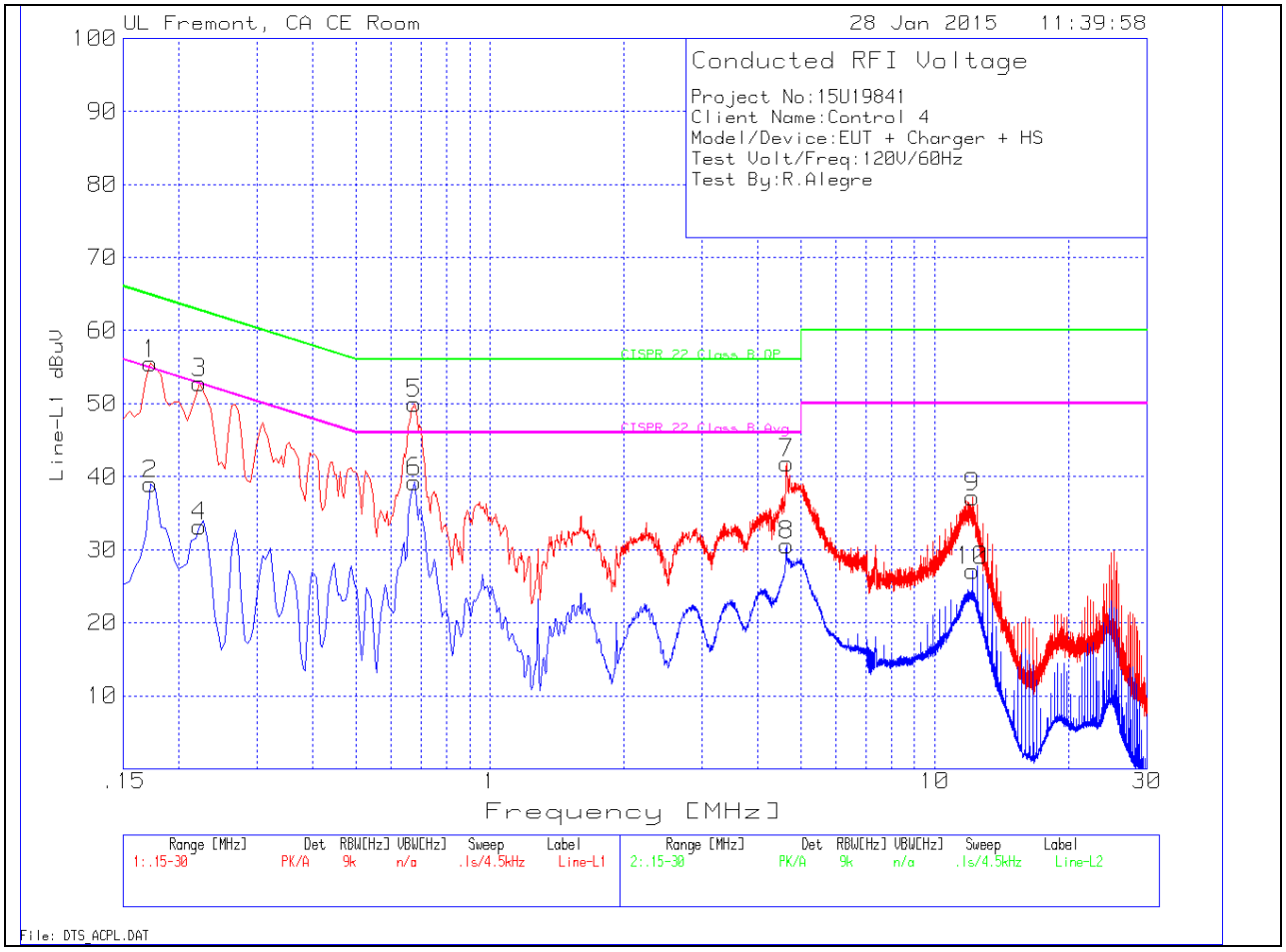
11.1.2. LINE CONDUCTED EMISSIONS (C4-WALL10)

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



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LINE 1 RESULTS

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	.1725	54.38	PK	1.1	0	55.48	64.8	-9.32	-	-
2	.1725	37.85	Av	1.1	0	38.95	-	-	54.8	-15.85
3	.222	52.04	PK	.8	0	52.84	62.7	-9.86	-	-
4	.222	32.4	Av	.8	0	33.2	-	-	52.7	-19.5
5	.6765	49.73	PK	.3	0	50.03	56	-5.97	-	-
6	.6765	38.96	Av	.3	0	39.26	-	-	46	-6.74
7	4.641	41.54	PK	.2	.1	41.84	56	-14.16	-	-
8	4.641	30.34	Av	.2	.1	30.64	-	-	46	-15.36
9	12.1695	36.82	PK	.2	.2	37.22	60	-22.78	-	-
10	12.1695	26.75	Av	.2	.2	27.15	-	-	50	-22.85

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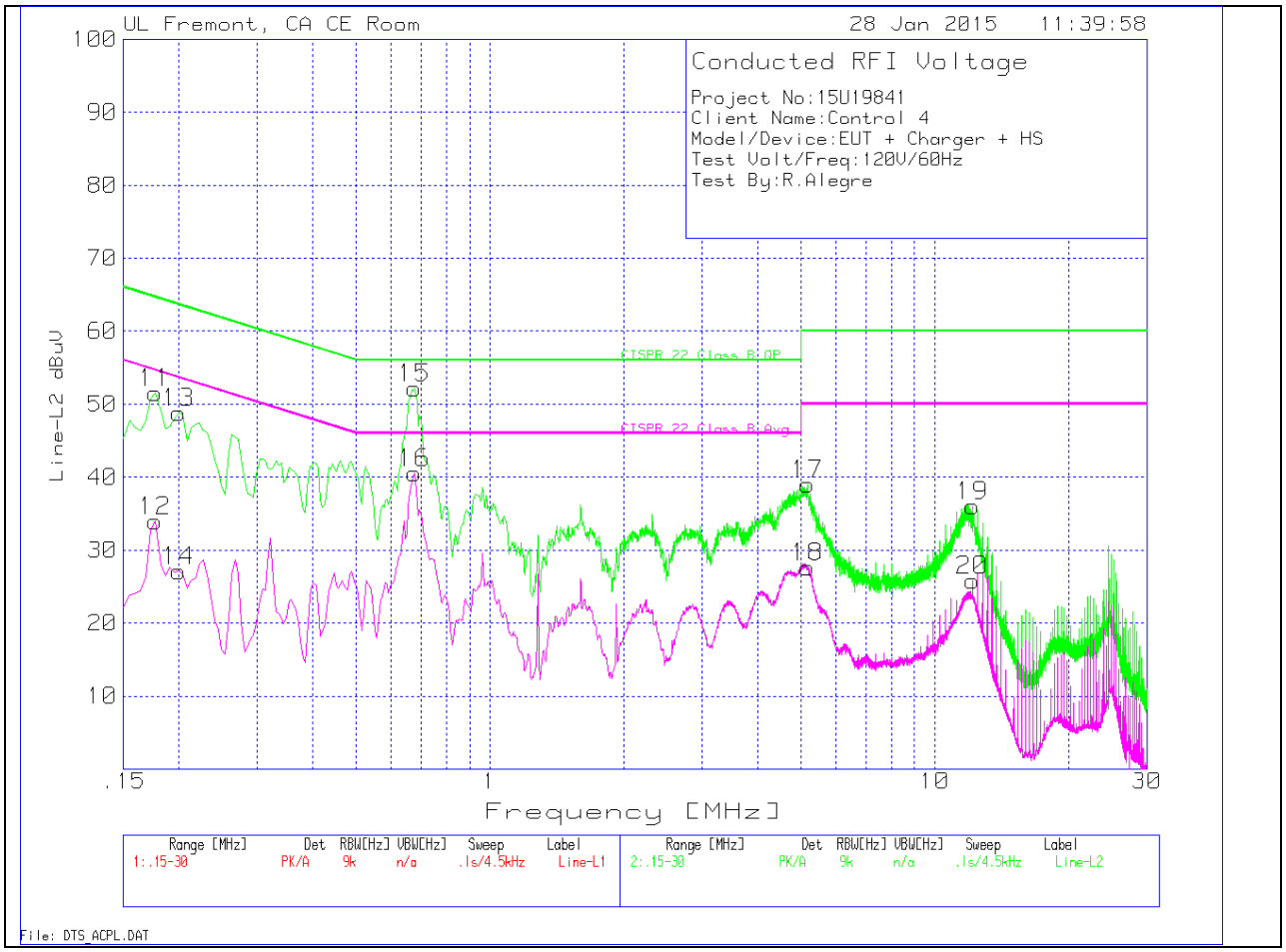
LINE 2 PLOT



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LINE 2 RESULTS

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)
11	.177	50.34	PK	1.2	0	51.54	64.6	-13.06	-	-
12	.177	32.8	Av	1.2	0	34	-	-	54.6	-20.6
13	.1995	47.88	PK	1	0	48.88	63.6	-14.72	-	-
14	.1995	26.13	Av	1	0	27.13	-	-	53.6	-26.47
15	.6765	51.85	PK	.3	0	52.15	56	-3.85	-	-
16	.6765	40.3	Av	.3	0	40.6	-	-	46	-5.4
21	4.9785	39.9	PK	.2	.1	40.2	56	-15.8	-	-
22	4.9785	28.9	Av	.2	.1	29.2	-	-	46	-16.8
17	5.1675	38.74	PK	.2	.1	39.04	60	-20.96	-	-
18	5.1675	27.32	Av	.2	.1	27.62	-	-	50	-22.38
23	11.715	36.03	PK	.2	.2	36.43	60	-23.57	-	-
24	11.715	23.47	Av	.2	.2	23.87	-	-	50	-26.13
19	12.165	35.64	PK	.2	.2	36.04	60	-23.96	-	-
20	12.165	25.46	Av	.2	.2	25.86	-	-	50	-24.14

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