



FCC 47 CFR PART 15 SUBPART C

C2PC CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ and NFC

FCC ID: PY7-PM0816

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**Prepared for
SONY MOBILE COMMUNICATIONS, INC.
NYA VATTENTORNET MOBILVAGEN 10
LUND 22188
SWEDEN**

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



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Revision History

Issue			
Rev.	Date	Revisions	Revised By
--	03/18/15	Initial Issue	CHOON OOI

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION	6
4.2. SAMPLE CALCULATION	6
4.3. MEASUREMENT UNCERTAINTY	6
5. EQUIPMENT UNDER TEST	7
8.1. DESCRIPTION OF EUT	7
8.2. MAXIMUM OUTPUT POWER.....	7
8.3. DESCRIPTION OF AVAILABLE ANTENNAS	7
8.4. WORST-CASE CONFIGURATION AND MODE	8
8.5. DESCRIPTION OF TEST SETUP.....	9
6. TEST AND MEASUREMENT EQUIPMENT	11
7. SUMMARY TABLE	12
8. RADIATED TEST RESULTS.....	13
8.1. LIMITS AND PROCEDURE	13
8.2. TRANSMITTER ABOVE 1 GHz	14
8.2.1. BASIC DATA RATE GFSK MODULATION	14
8.2.2. ENHANCED DATA RATE 8PSK MODULATION	27
8.3. WORST-CASE BELOW 1 GHz.....	40
6. SETUP PHOTOS.....	43

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.
EUT DESCRIPTION: GSM/WCDMA/LTE Phone + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ and NFC
SERIAL NUMBER: YT910XTJRB (Radiated)
DATE TESTED: FEBRUARY 13-MARCH 13, 2015

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

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

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

Approved & Released For
UL Verification Services Inc. By:

Tested By:



CHOON OOI
CONSUMER TECHNOLOGY DIVISION
WISE PROJECT LEAD
UL Verification Services Inc.

STEVEN TRAN
CONSUMER TECHNOLOGY DIVISION
WISE LAB ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
☒ Chamber A(IC: 2324B-1)	☐ Chamber D(IC: 2324B-4)
☐ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 2324B-5)
☒ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 2324B-6)
	☐ Chamber G(IC: 2324B-7)
	☐ Chamber H(IC: 2324B-8)

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\text{Field Strength (dBuV/m)} = \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Gain (dB)}$$

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

4.3. MEASUREMENT UNCERTAINTY

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

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

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

5. EQUIPMENT UNDER TEST

8.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ and NFC.

8.2. MAXIMUM OUTPUT POWER

Please refer to test report 14U17919-2A (FCC ID: PY7PM-0813)

8.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -1.6dBi.

8.4. 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.

8.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	SONY	EP880	3514W 01 S08328	N/A
Earphone	SONY	MH410C	N/A	N/A

I/O CABLES

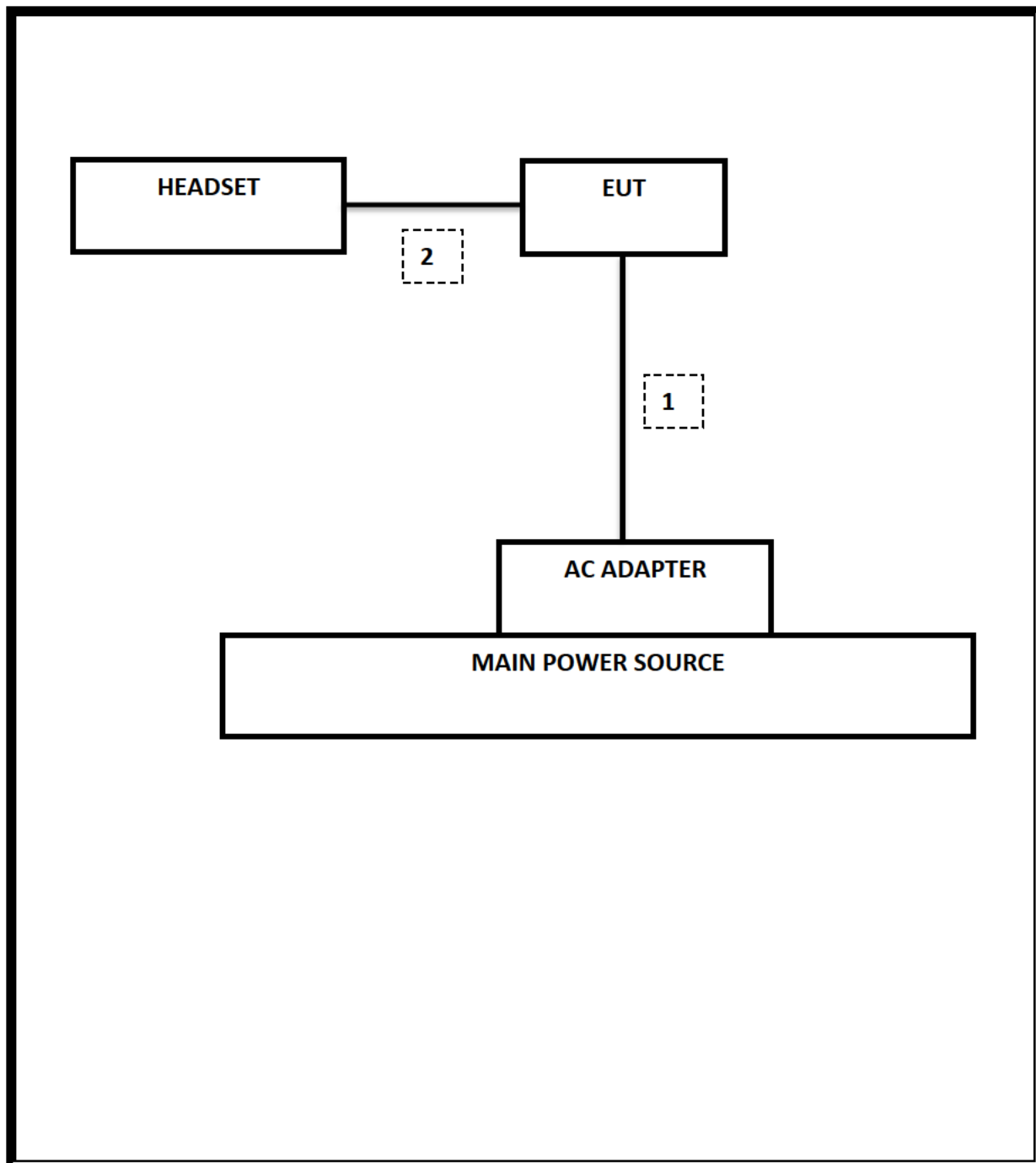
I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests.

EUT was set in the Hidden menu mode to enable BT communications.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/15
Spectrum Analyzer, 9KHz-40GHz	HP	8564E	C00986	04/01/15
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	100773	08/15/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/15
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	12/08/15
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 - 18GHz	Miteq	AFS42-00101800-25-S-42	1818466	05/09/15
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 Software 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

7. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
2.1049	RSS-GEN 4.6	Occupied Band width (99%)	N/A	Conducted	Pass	See Original
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	See Original
15.247 (b)(1)	RSS-210 A8.4	TX conducted output power	<21dBm		Pass	See Original
15.247 (a)(1)	RSS-210 A8.1(b)	Hopping frequency separation	> 25KHz		Pass	See Original
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Number of Hopping channels	More than 15 non-overlapping channels		Pass	See Original
15.247 (a)(1)(iii)	RSS-210 A8.1(d)	Avg Time of Occupancy	< 0.4sec		Pass	See Original
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	See Original
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	44.2 dBuV/m

8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit ($\mu\text{V}/\text{m}$) at 3 m	Field Strength Limit (dB $\mu\text{V}/\text{m}$) 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. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement.
 $\text{GFSK} = 1/T = 1 / 0.0038\text{s} = 360\text{Hz}$.

The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

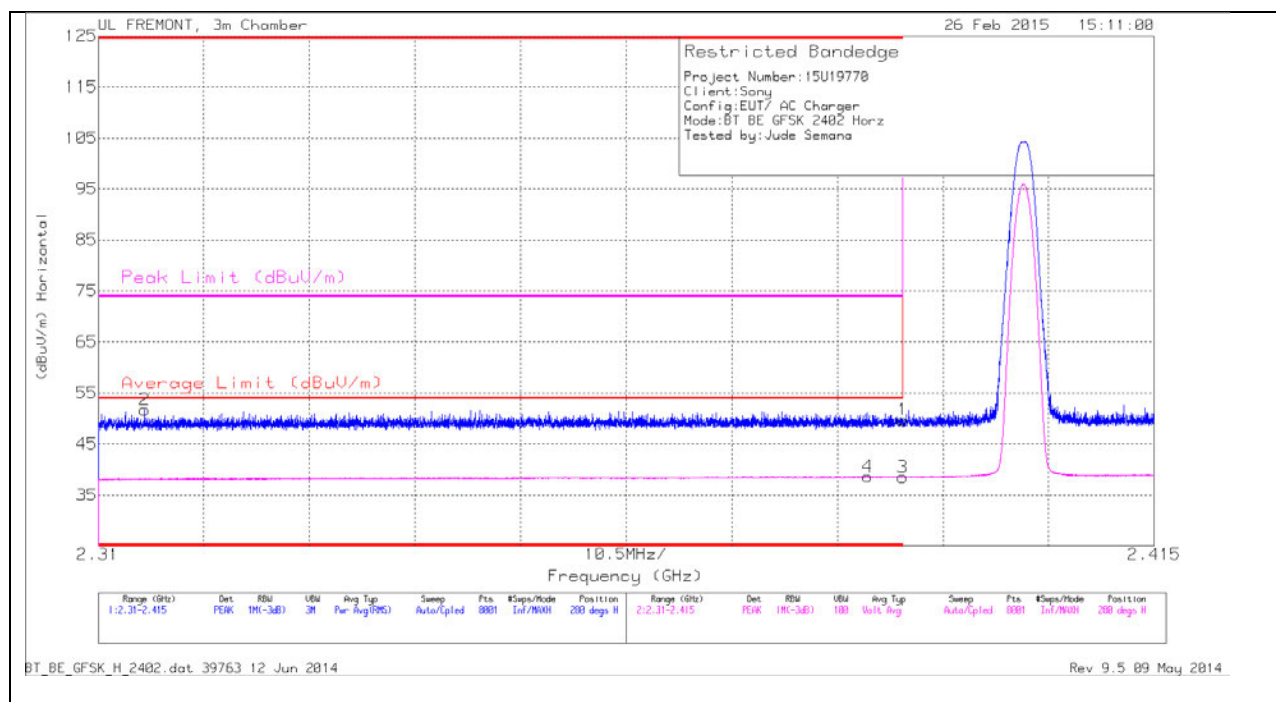
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

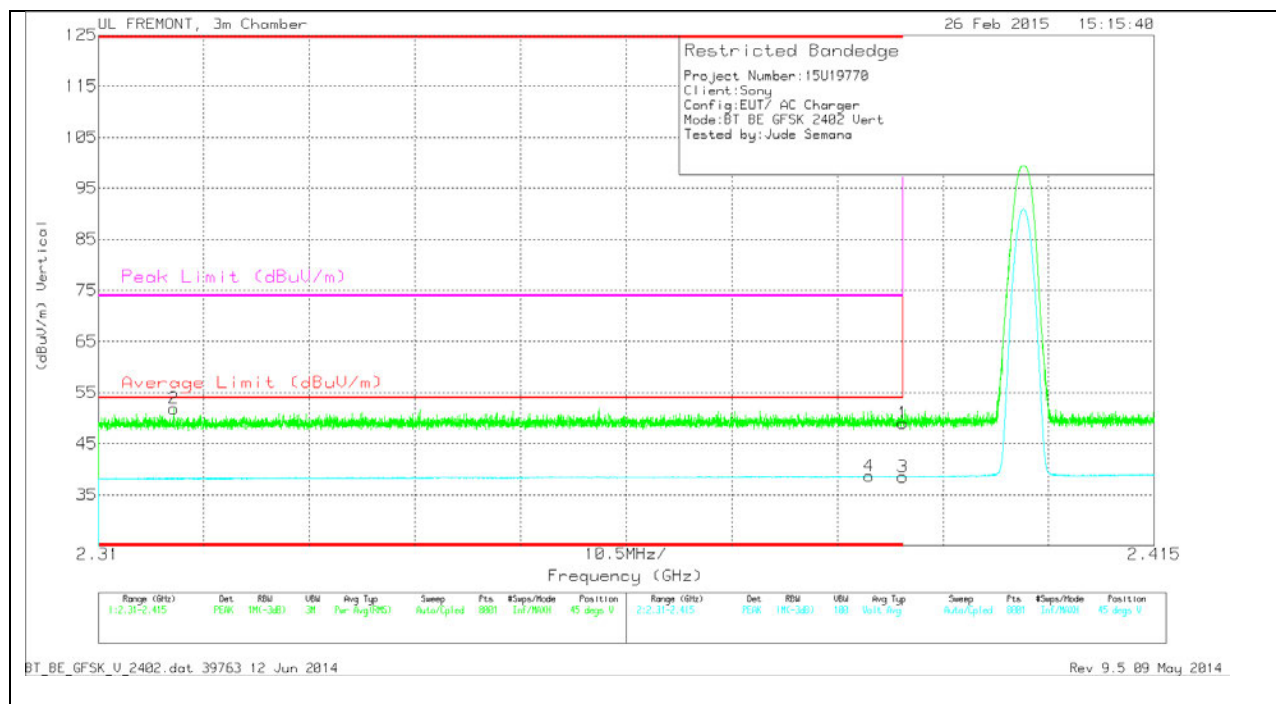
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.315	43.13	PK	31.7	-23.1	0	51.73	-	-	74	-22.27	280	314	H
4	* 2.387	29.72	VB1T	32	-23.1	0	38.62	54	-15.38	-	-	280	314	H
1	* 2.39	40.86	PK	32	-23.1	0	49.76	-	-	74	-24.24	280	314	H
3	* 2.39	29.61	VB1T	32	-23.1	0	38.51	54	-15.49	-	-	280	314	H

VERTICAL PEAK AND AVERAGE PLOT

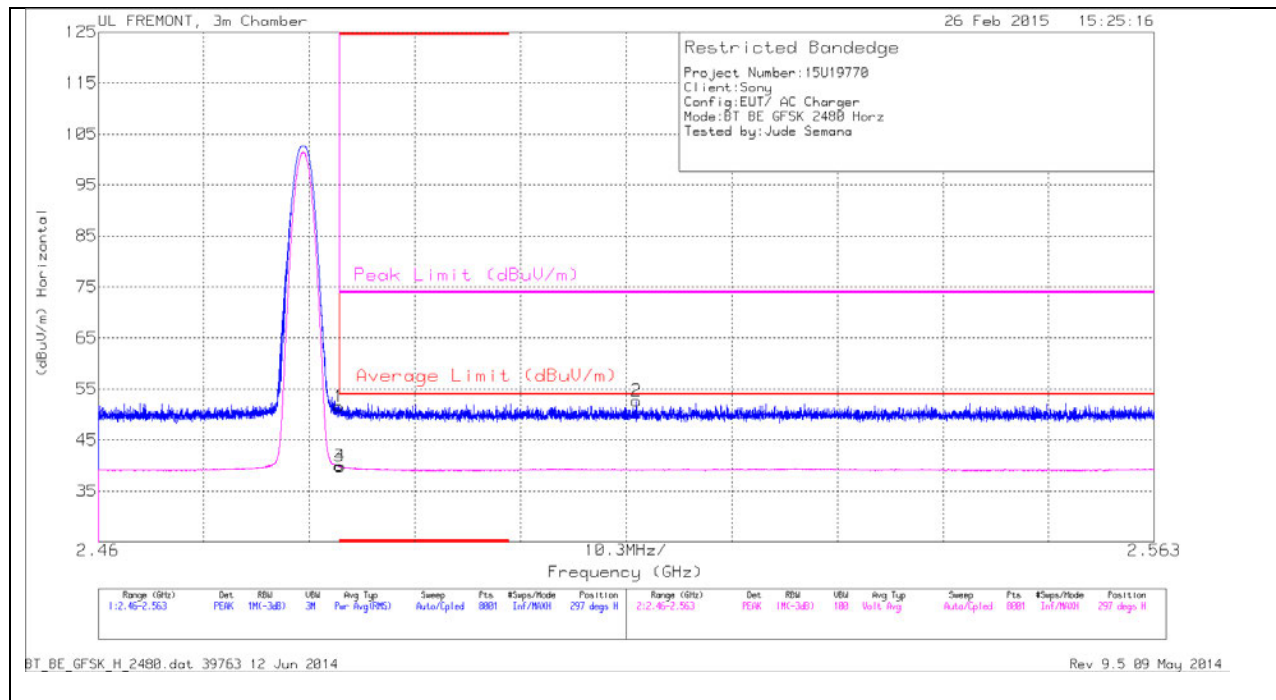


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.318	43.29	PK	31.7	-23.1	0	51.89	-	-	74	-22.11	45	391	V
4	* 2.387	29.76	VB1T	32	-23.1	0	38.66	54	-15.34	-	-	45	391	V
1	* 2.39	40.12	PK	32	-23.1	0	49.02	-	-	74	-24.98	45	391	V
3	* 2.39	29.64	VB1T	32	-23.1	0	38.54	54	-15.46	-	-	45	391	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

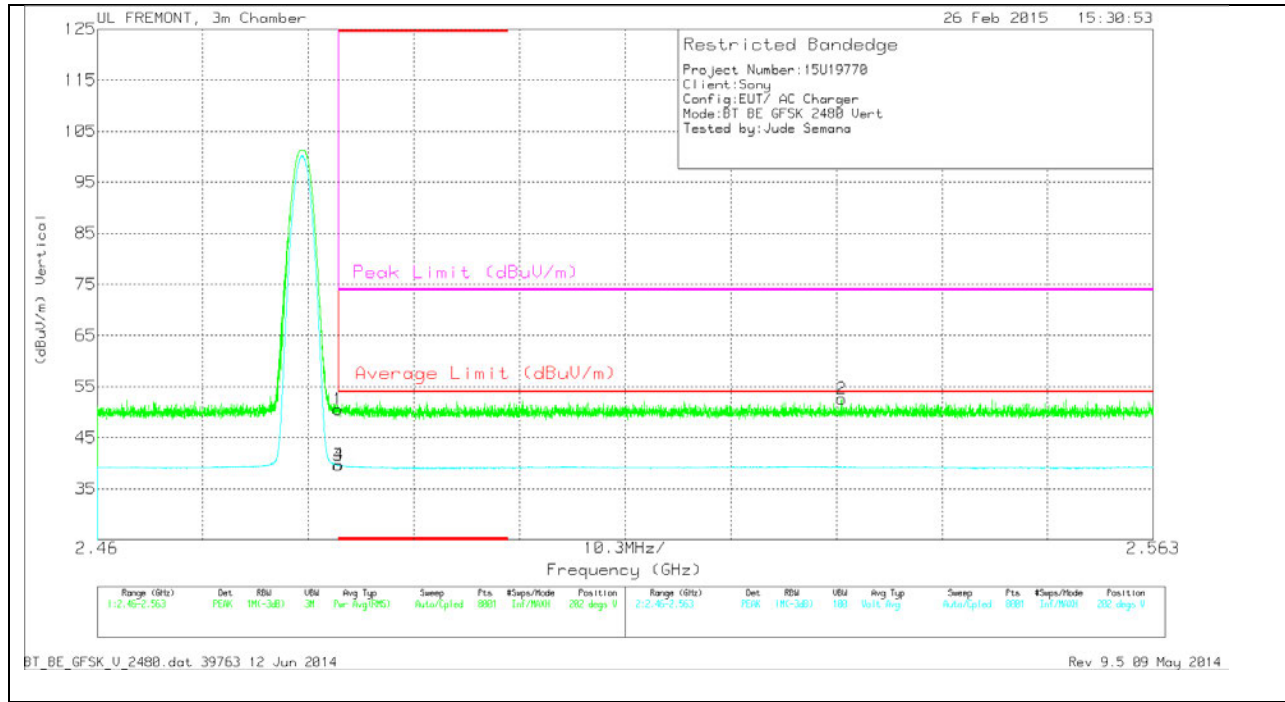
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	42.12	PK	32.3	-22.8	0	51.62	-	-	74	-22.38	297	359	H
3	* 2.484	30.43	VB1T	32.3	-22.8	0	39.93	54	-14.07	-	-	297	359	H
4	* 2.484	30.33	VB1T	32.3	-22.8	0	39.83	54	-14.17	-	-	297	359	H
2	2.512	43.18	PK	32.3	-22.8	0	52.68	-	-	74	-21.32	297	359	H

VERTICAL PEAK AND AVERAGE PLOT

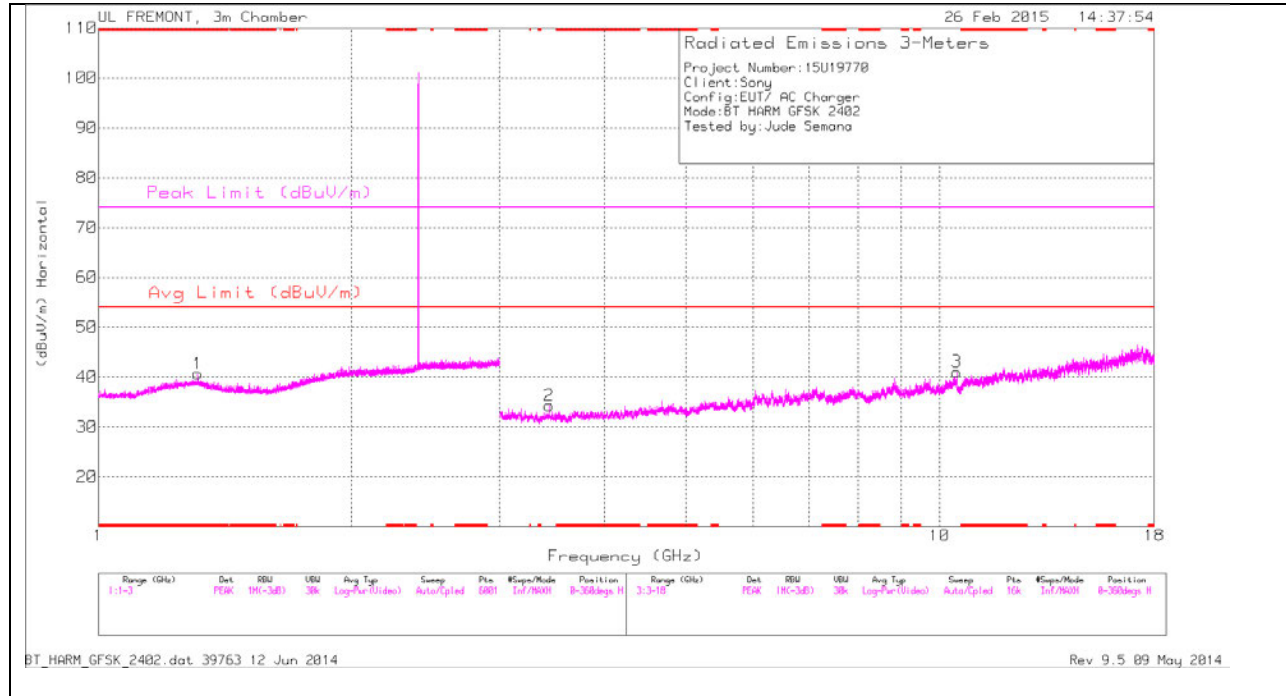


VERTICAL DATA

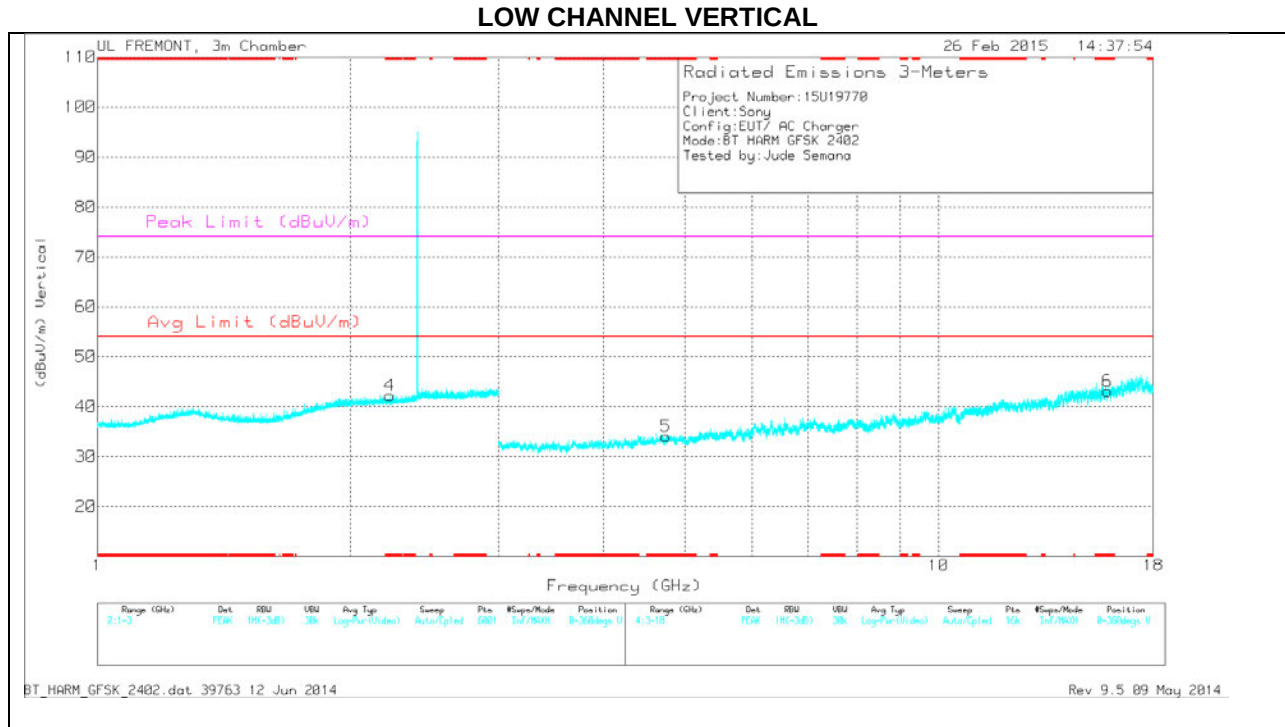
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.06	PK	32.3	-22.8	0	50.56	-	-	74	-23.44	202	368	V
3	* 2.484	30.12	VB1T	32.3	-22.8	0	39.62	54	-14.38	-	-	202	368	V
4	* 2.484	30.17	VB1T	32.3	-22.8	0	39.67	54	-14.33	-	-	202	368	V
2	2.533	42.93	PK	32.4	-22.7	0	52.63	-	-	74	-21.37	202	368	V

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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



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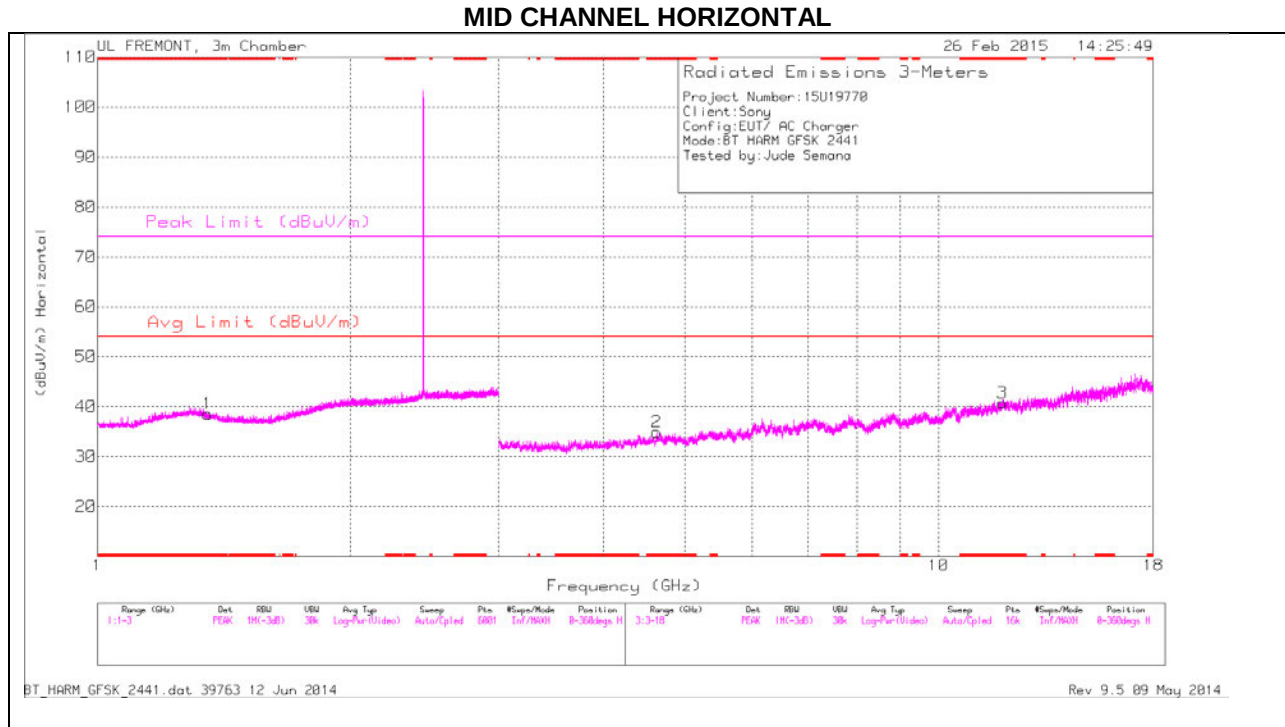
LOW CHANNEL DATA

TRACE MARKERS

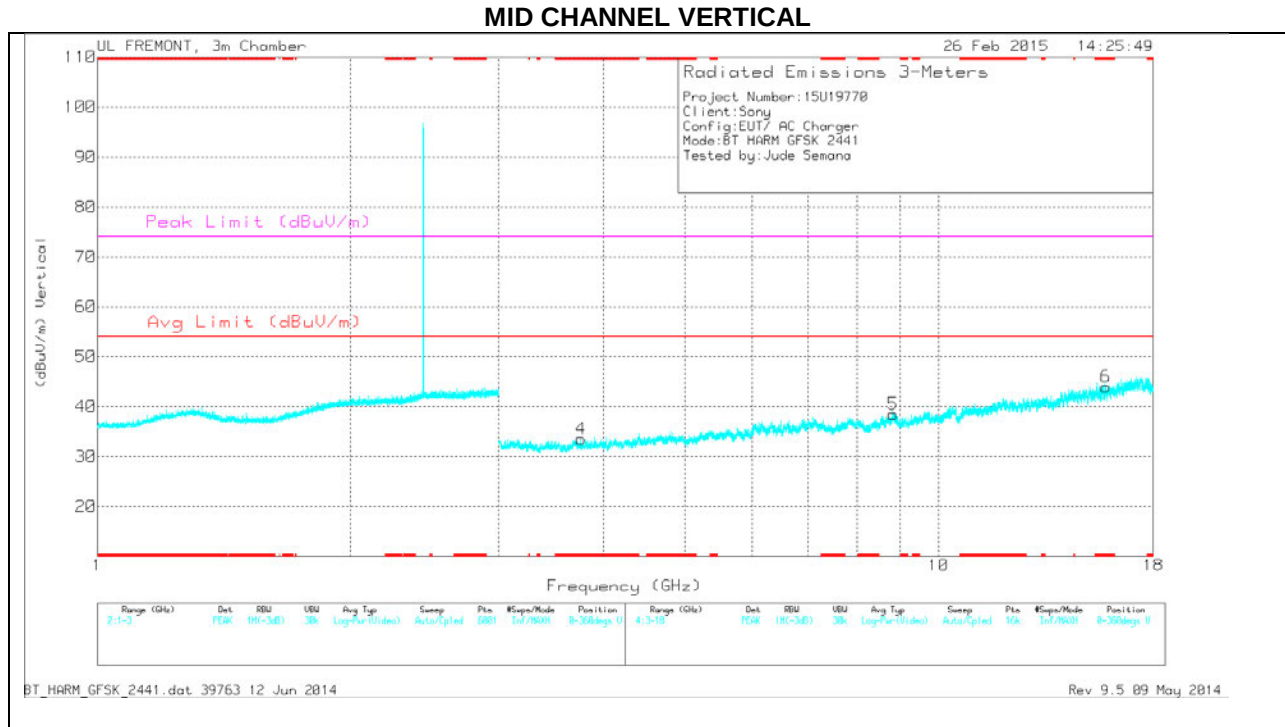
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.313	34.75	PK	29.7	-23.8	0	40.65	-	-	74	-33.35	0-360	100	H
6	* 15.881	28.99	PK	40.3	-26.2	0	43.09	-	-	74	-30.91	0-360	100	V
4	* 2.228	33.76	PK	31.5	-23	0	42.26	-	-	74	-31.74	0-360	100	V
5	* 4.744	30.85	PK	34	-30.8	0	34.05	-	-	74	-39.95	0-360	200	V
3	10.484	28.95	PK	37.4	-25.3	0	41.05	-	-	-	-	0-360	200	H
2	3.437	33.19	PK	32.7	-31.6	0	34.29	-	-	-	-	0-360	100	H

PK - Peak detector

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013



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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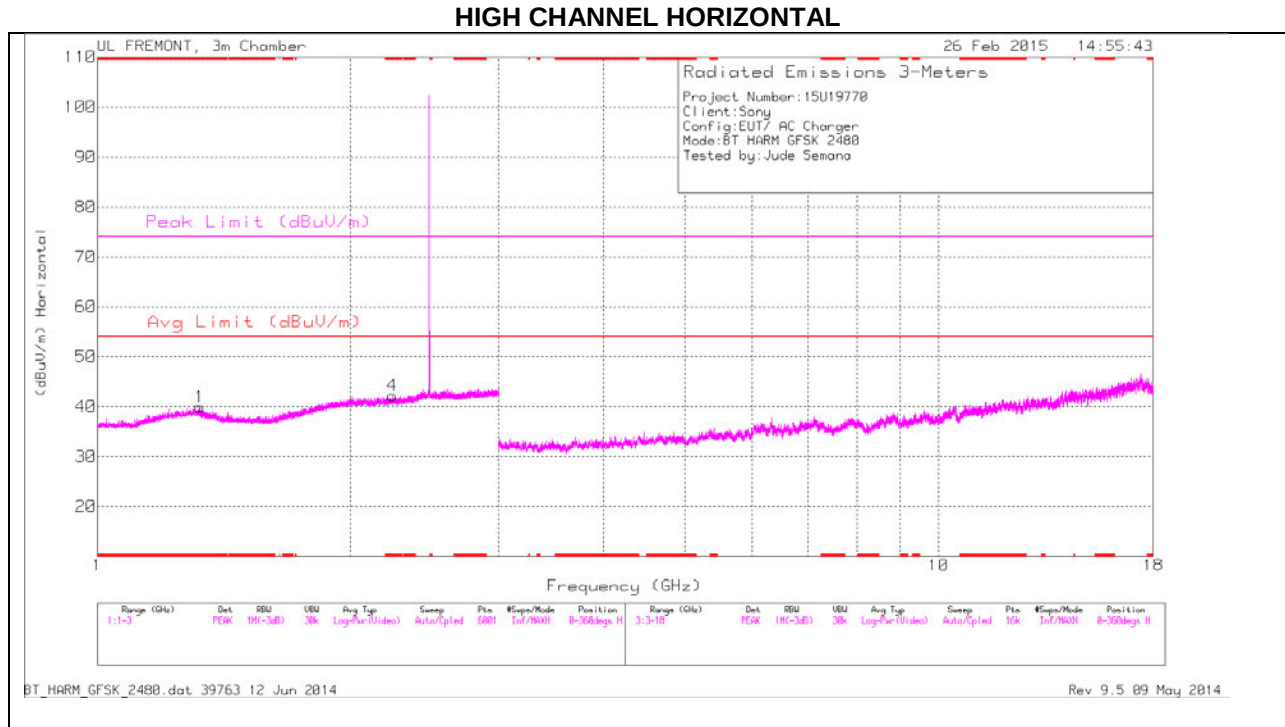
MID CHANNEL DATA

TRACE MARKERS

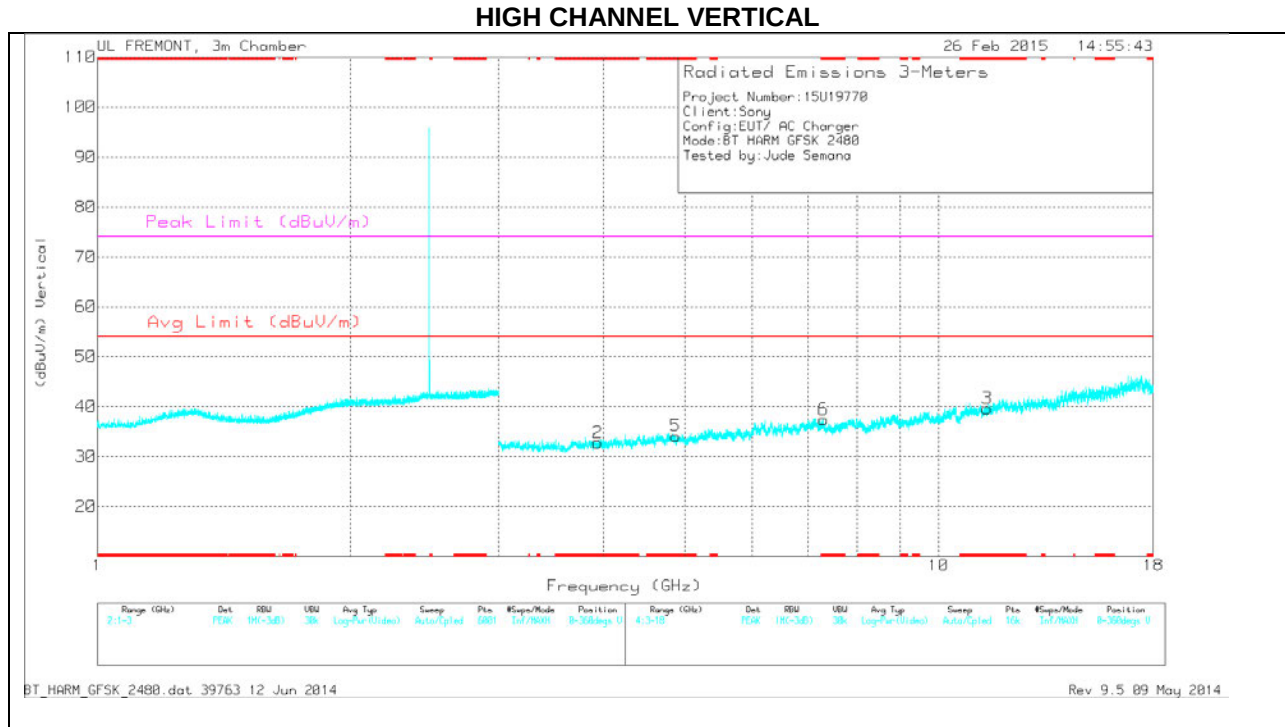
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filtr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.353	33.17	PK	29.2	-23.8	0	38.57	-	-	74	-35.43	0-360	100	H
3	* 11.909	28.03	PK	39.1	-26.4	0	40.73	-	-	74	-33.27	0-360	100	H
6	* 15.806	29.87	PK	40.3	-26.2	0	43.97	-	-	74	-30.03	0-360	100	V
4	* 3.76	31.75	PK	33.1	-31.3	0	33.55	-	-	74	-40.45	0-360	200	V
2	* 4.624	31.72	PK	33.9	-30.7	0	34.92	-	-	74	-39.08	0-360	100	H
5	8.835	29.08	PK	35.9	-26.5	0	38.48	-	-	-	-	0-360	100	V

PK - Peak detector

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013



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



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

HIGH CHANNEL DATA

TRACE MARKERS

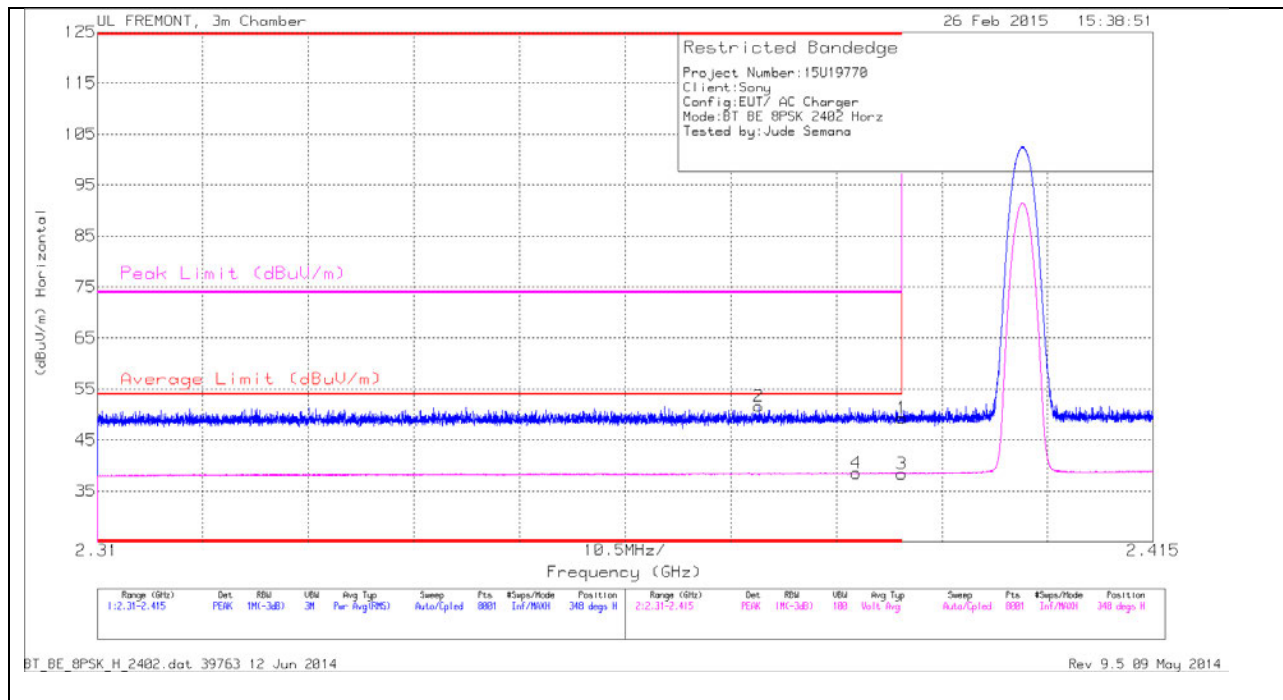
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.325	34.18	PK	29.6	-23.8	0	39.98	-	-	74	-34.02	0-360	200	H
3	* 11.421	27.25	PK	38.2	-25.8	0	39.65	-	-	74	-34.35	0-360	200	V
4	* 2.244	33.75	PK	31.5	-23	0	42.25	-	-	74	-31.75	0-360	100	H
2	* 3.935	30.79	PK	33.2	-31.2	0	32.79	-	-	74	-41.21	0-360	200	V
5	* 4.873	30.22	PK	34	-30.1	0	34.12	-	-	74	-39.88	0-360	200	V
6	* 7.298	30.62	PK	35.6	-28.8	0	37.42	-	-	74	-36.58	0-360	200	V

PK - Peak detector

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

8.2.2. ENHANCED DATA RATE 8PSK MODULATION RESTRICTED BANDEDGE (LOW CHANNEL)

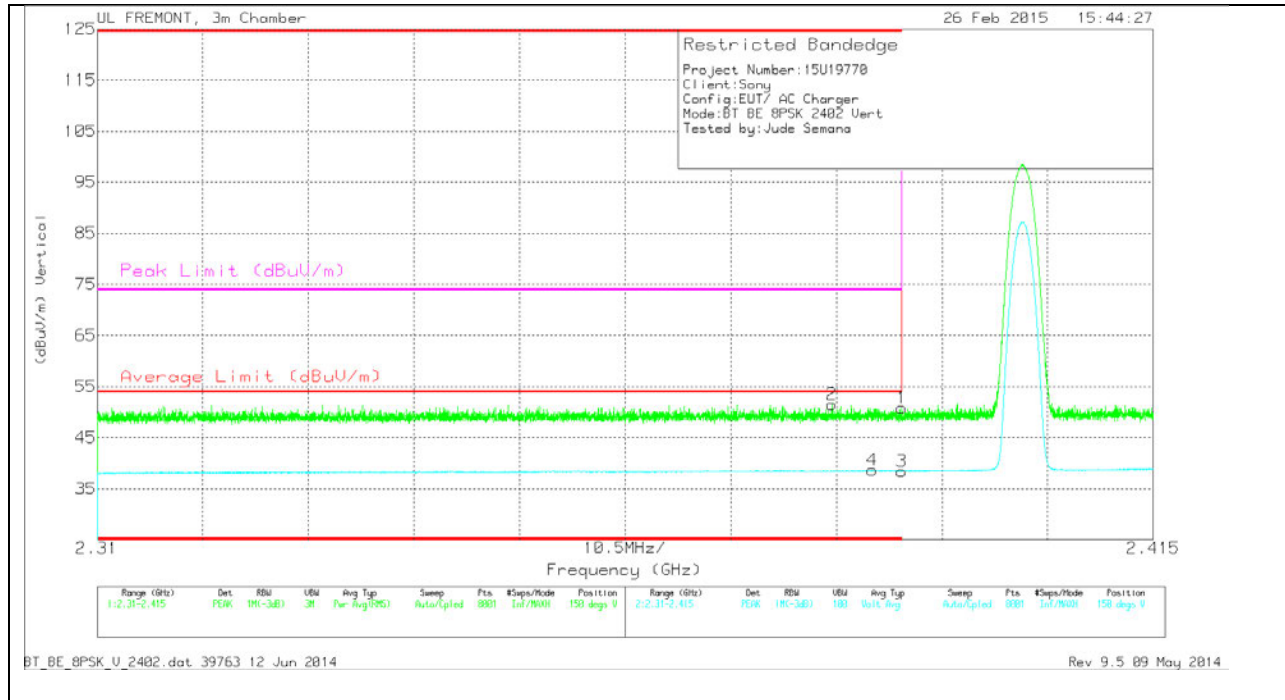
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.376	42.83	PK	31.9	-23.1	0	51.63	-	-	74	-22.37	348	208	H
4	* 2.385	29.65	VB1T	32	-23.1	0	38.55	54	-15.45	-	-	348	208	H
1	* 2.39	40.42	PK	32	-23.1	0	49.32	-	-	74	-24.68	348	208	H
3	* 2.39	29.49	VB1T	32	-23.1	0	38.39	54	-15.61	-	-	348	208	H

VERTICAL PEAK AND AVERAGE PLOT

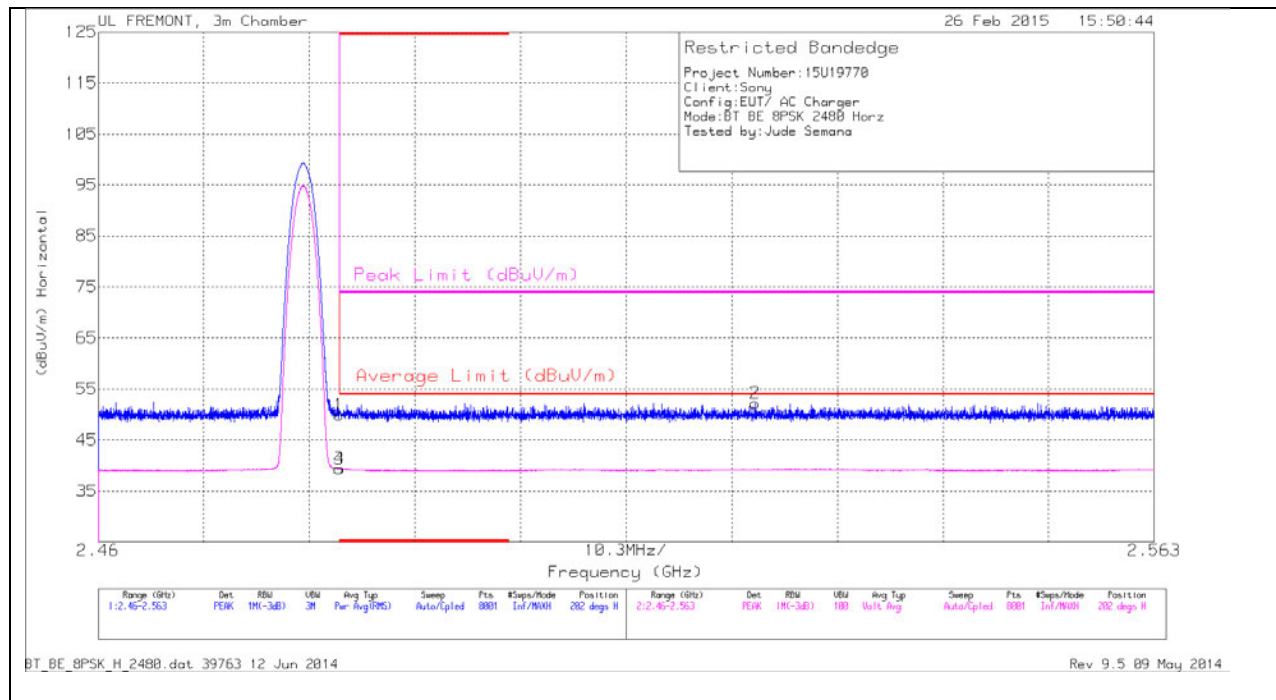


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.383	42.63	PK	32	-23.1	0	51.53	-	-	74	-22.47	150	263	V
4	* 2.387	29.75	VB1T	32	-23.1	0	38.65	54	-15.35	-	-	150	263	V
1	* 2.39	41.94	PK	32	-23.1	0	50.84	-	-	74	-23.16	150	263	V
3	* 2.39	29.54	VB1T	32	-23.1	0	38.44	54	-15.56	-	-	150	263	V

AUTHORIZED BANDEDGE (HIGH CHANNEL)

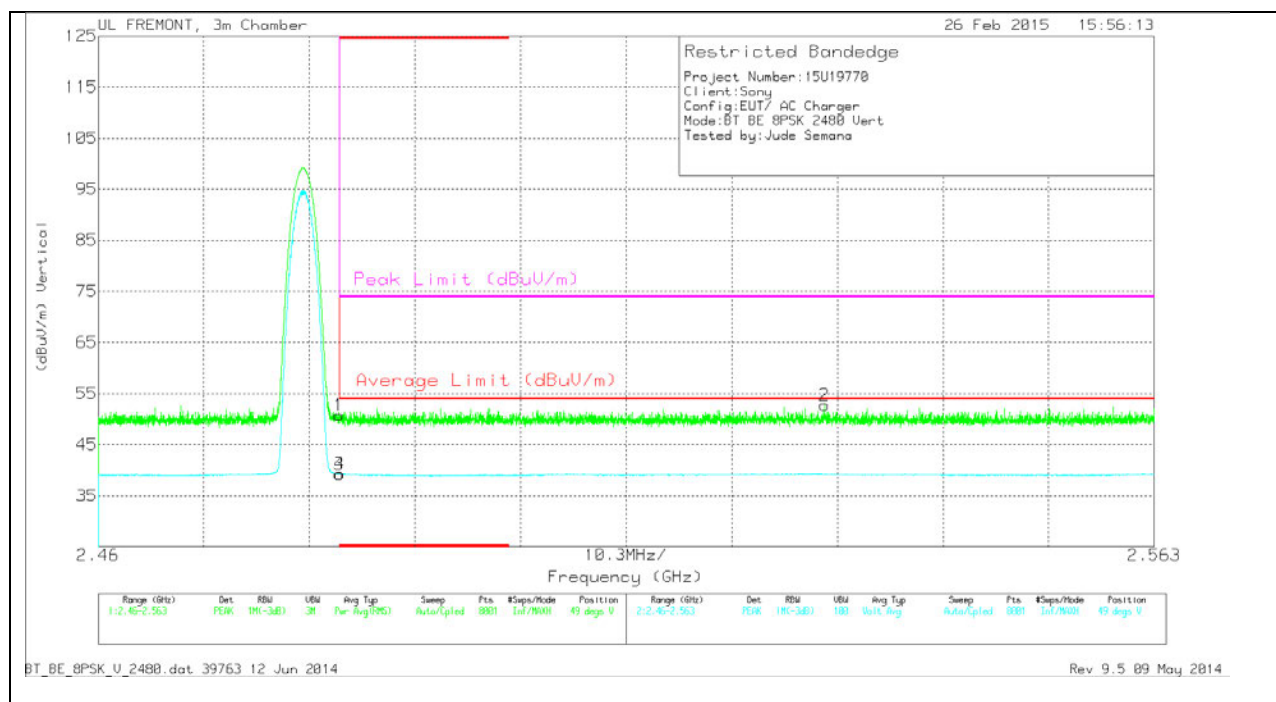
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.47	PK	32.3	-22.8	0	49.97	-	-	74	-24.03	202	305	H
3	* 2.484	29.84	VB1T	32.3	-22.8	0	39.34	54	-14.66	-	-	202	305	H
4	* 2.484	29.88	VB1T	32.3	-22.8	0	39.38	54	-14.62	-	-	202	305	H
2	2.524	42.53	PK	32.4	-22.7	0	52.23	-	-	74	-21.77	202	305	H

VERTICAL PEAK AND AVERAGE PLOT

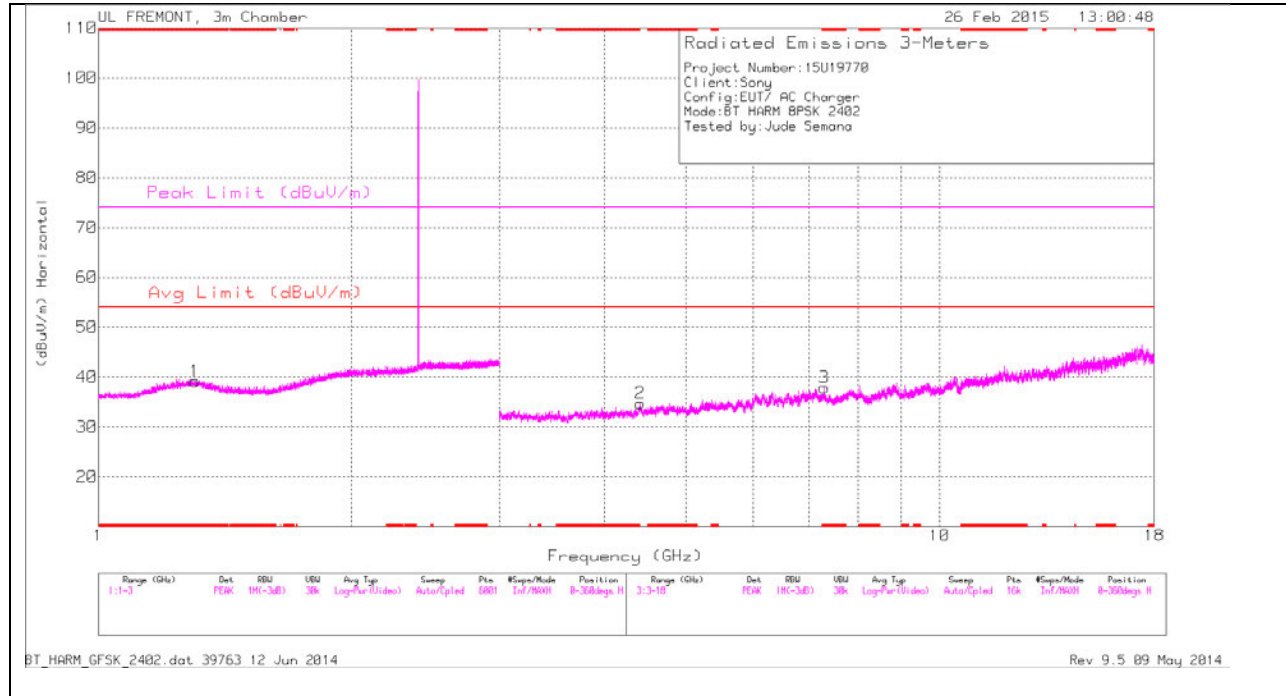


VERTICAL DATA

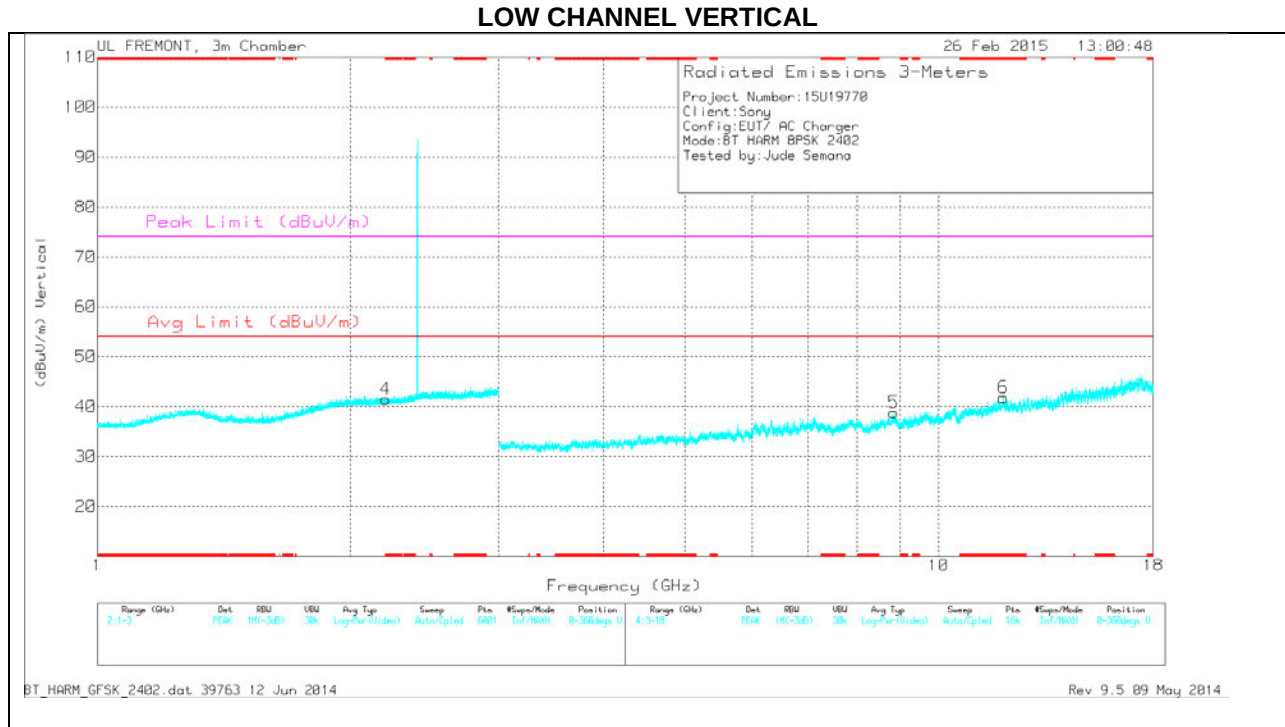
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fit r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.26	PK	32.3	-22.8	0	50.76	-	-	74	-23.24	49	291	V
3	* 2.484	29.71	VB1T	32.3	-22.8	0	39.21	54	-14.79	-	-	49	291	V
4	* 2.484	29.8	VB1T	32.3	-22.8	0	39.3	54	-14.7	-	-	49	291	V
2	2.531	42.9	PK	32.4	-22.6	0	52.7	-	-	74	-21.3	49	291	V

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



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



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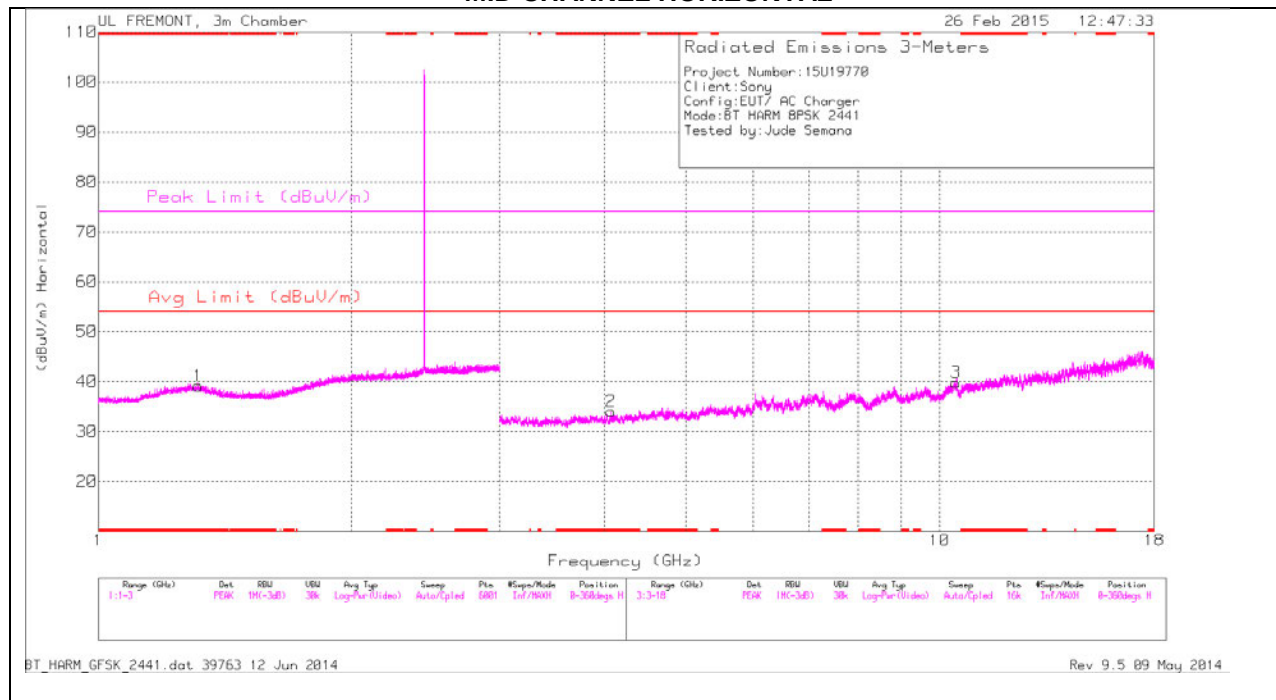
LOW CHANNEL DATA

TRACE MARKERS

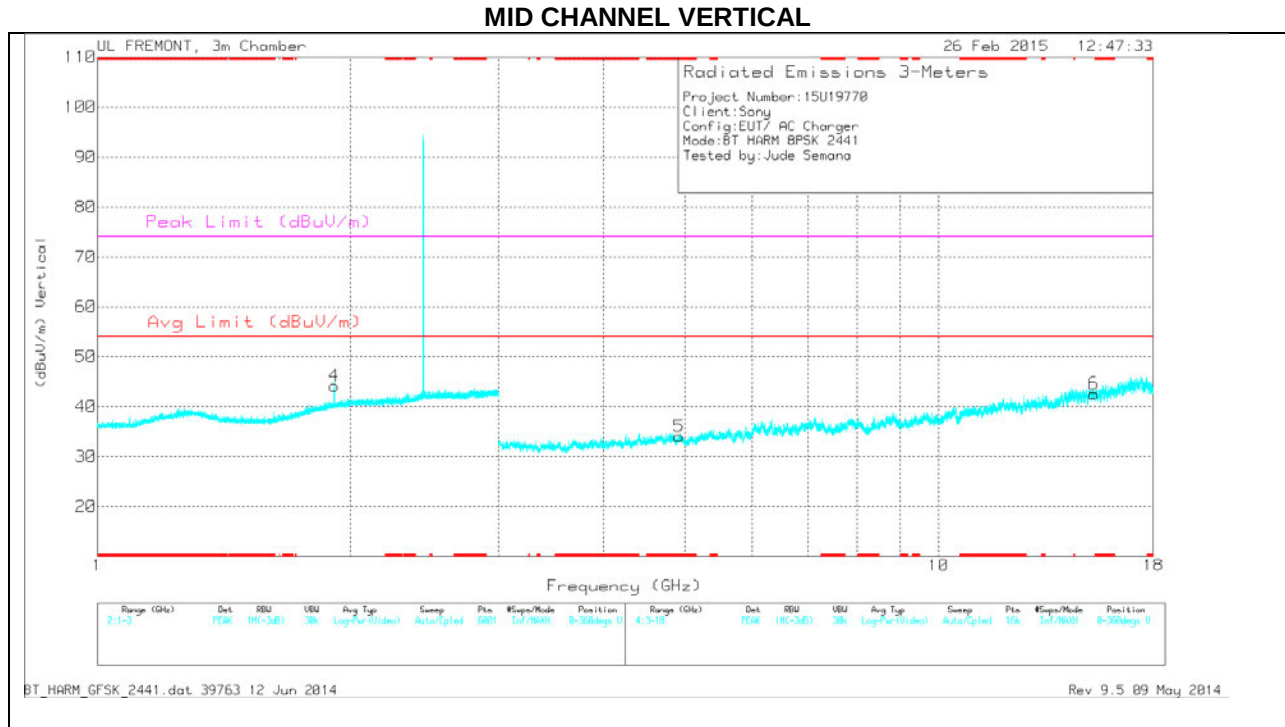
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.304	33.18	PK	29.8	-23.8	0	39.18	-	-	74	-34.82	0-360	100	H
6	* 11.946	28.82	PK	39.1	-26.1	0	41.82	-	-	74	-32.18	0-360	100	V
4	* 2.201	33.11	PK	31.4	-23	0	41.51	-	-	74	-32.49	0-360	100	V
3	* 7.295	31.11	PK	35.6	-28.8	0	37.91	-	-	74	-36.09	0-360	200	H
2	4.408	31.22	PK	33.7	-30.2	0	34.72	-	-	-	-	0-360	100	H
5	8.849	29.5	PK	35.9	-26.6	0	38.8	-	-	-	-	0-360	100	V

PK - Peak detector

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013



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



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

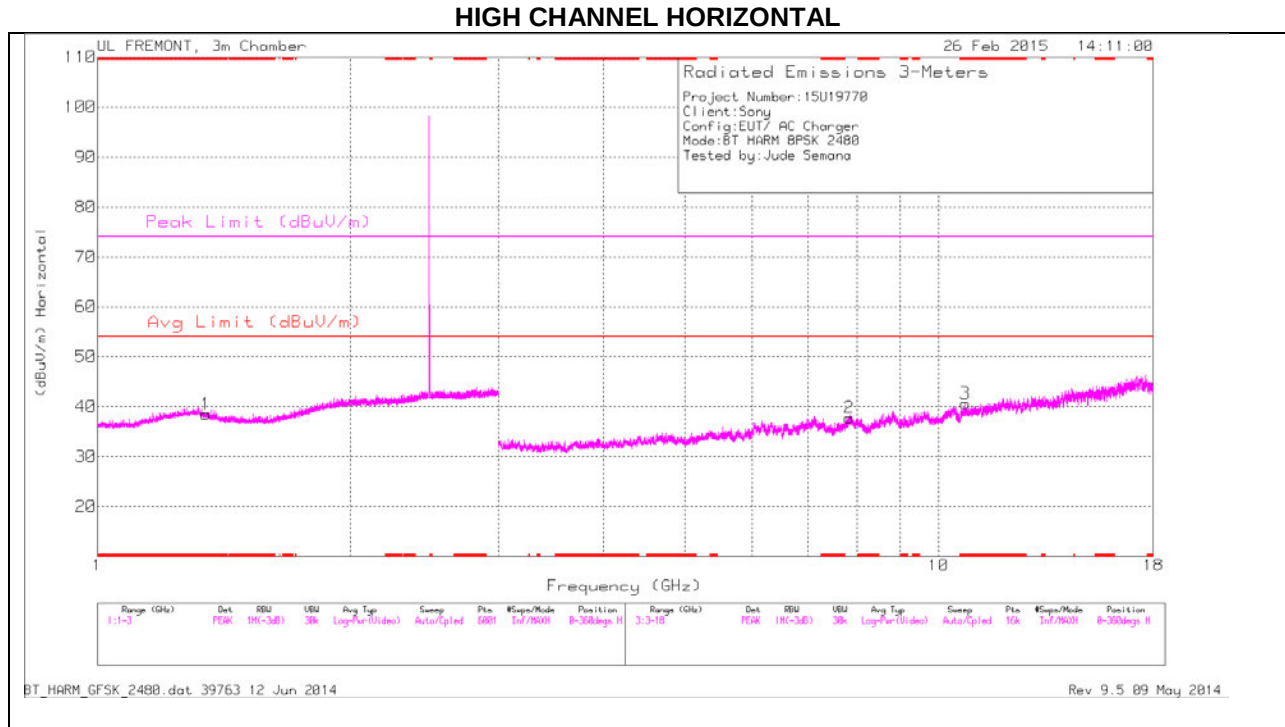
MID CHANNEL DATA

TRACE MARKERS

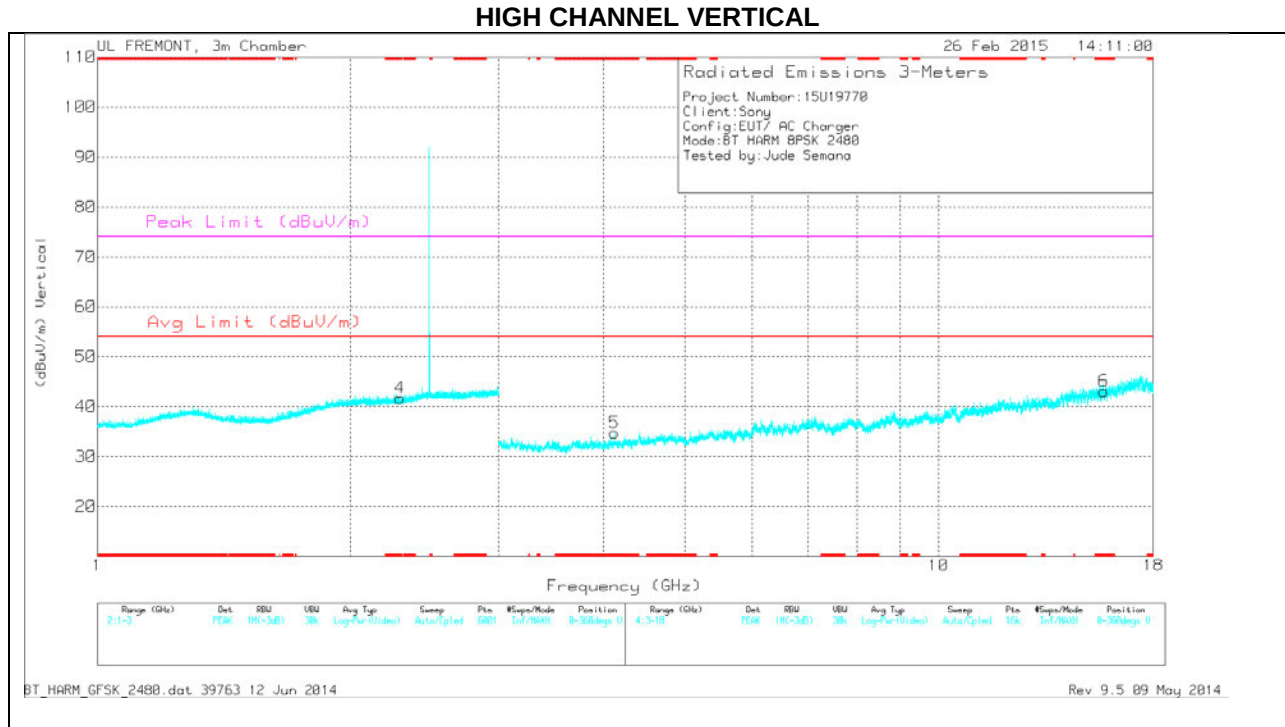
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr /Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.315	33.28	PK	29.7	-23.8	0	39.18	-	-	74	-34.82	0-360	200	H
2	* 4.072	32.37	PK	33.3	-31.6	0	34.07	-	-	74	-39.93	0-360	200	H
5	* 4.916	30.15	PK	34	-30.1	0	34.05	-	-	74	-39.95	0-360	100	V
4	1.914	36.29	PK	31.2	-23.3	0	44.19	-	-	-	-	0-360	200	V
3	10.461	27.61	PK	37.4	-25.2	0	39.81	-	-	-	-	0-360	200	H
6	15.295	29.58	PK	40	-27	0	42.58	-	-	-	-	0-360	200	V

PK - Peak detector

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013



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



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

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitr /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	* 1.346	32.99	PK	29.3	-23.8	0	38.49	-	-	74	-35.51	0-360	200	H
3	* 10.762	27.71	PK	37.8	-24.9	0	40.61	-	-	74	-33.39	0-360	200	H
6	* 15.725	29.32	PK	40.4	-26.6	0	43.12	-	-	74	-30.88	0-360	100	V
4	* 2.29	33.2	PK	31.6	-23.1	0	41.7	-	-	74	-32.3	0-360	100	V
5	* 4.12	32.45	PK	33.3	-31	0	34.75	-	-	74	-39.25	0-360	200	V
2	7.833	29.56	PK	35.8	-27.6	0	37.76	-	-	-	-	0-360	100	H

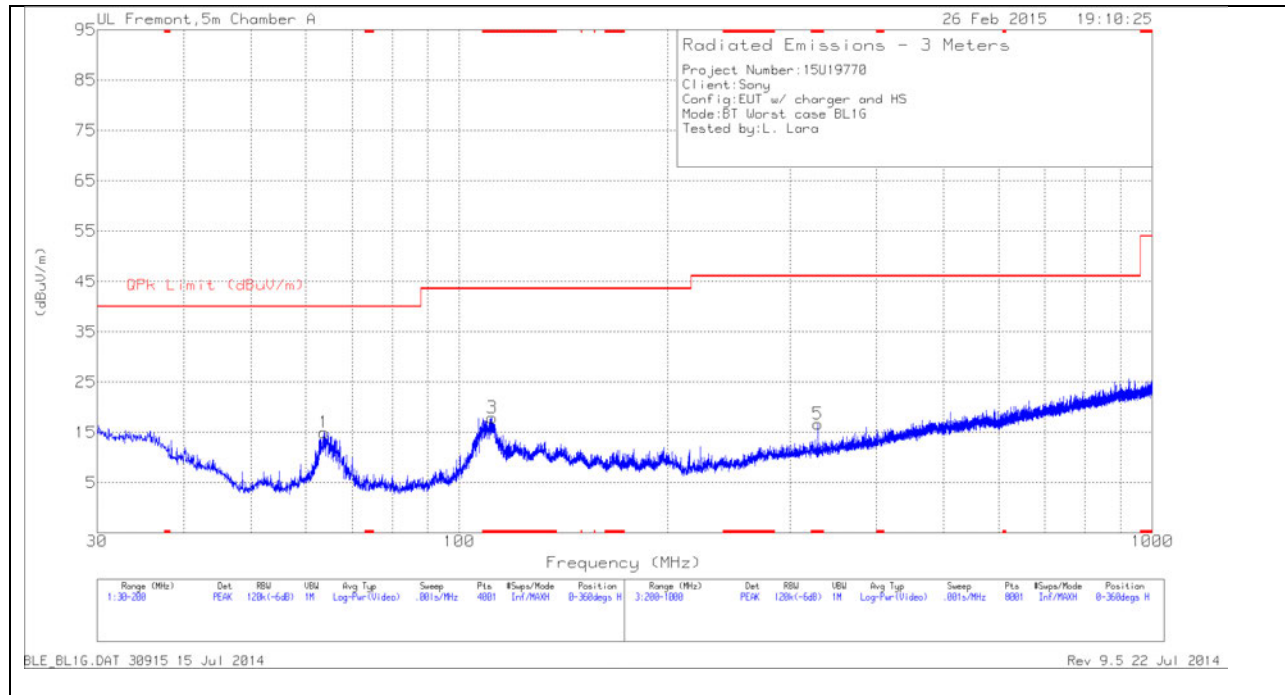
PK - Peak detector

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

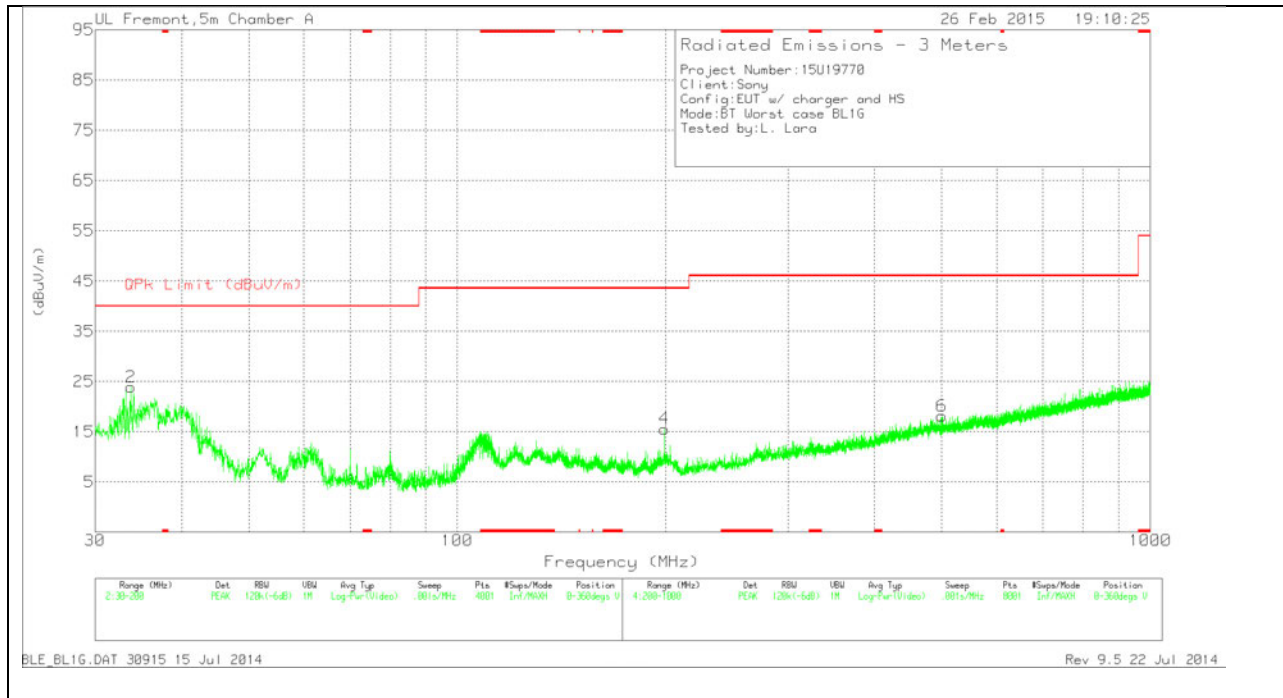
8.3. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 111.4725	35.65	PK	12.8	-30.5	17.95	43.52	-25.57	0-360	300	H
5	* 329.3	32.09	PK	13.9	-29.3	16.69	46.02	-29.33	0-360	200	H
2	33.825	36.57	PK	18.5	-31.2	23.87	40	-16.13	0-360	101	V
1	63.7875	37.99	PK	7.9	-30.9	14.99	40	-25.01	0-360	300	H
4	199.065	32.98	PK	12.5	-29.9	15.58	43.52	-27.94	0-360	101	V
6	500.4	29.24	PK	17.6	-28.7	18.14	46.02	-27.88	0-360	200	V

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

PK - Peak detector