



FCC CFR47 PART 15 SUBPART C

**ANT+
CERTIFICATION TEST REPORT**

FOR

Tablet with Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ and NFC

FCC ID: PY7TS-0040

REPORT NUMBER: 14U17934-E5 REVISION B

ISSUE DATE: SEPTEMBER 18, 2014

**Prepared for
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	09/05/14	Initial issue	D. Coronia
A	09/17/14	EUT description updated	D. Coronia
B	09/18/14	EUT description updated; cover page, 4 & 7	D. Coronia

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.
EUT DESCRIPTION: Tablet with Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ and NFC
SERIAL NUMBER: CB5A20E0RY
DATE TESTED: AUGUST 18, 2014

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

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

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

Approved & Released For
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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.

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street	47266 Benicia Street
<input type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D
<input checked="" type="checkbox"/> Chamber B	<input type="checkbox"/> Chamber E
<input type="checkbox"/> Chamber C	<input type="checkbox"/> Chamber F

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

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

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Tablet with Bluetooth, DTS/UNII a/b/g/n/ac, ANT+ and NFC.

The FCC ID: PY7TS-0040 shares the same enclosure and circuit board as FCC ID: PY7TM-0050. The WLAN/Bluetooth/ANT+ and NFC circuitry and layout, including antennas, are almost identical between the two units. The WLAN/Bluetooth/ANT+ and NFC antennas and surrounding circuitry are the same between these two units. The main difference between the two models is that WWAN circuitry in FCC ID: PY7TM-0050 is removed for FCC ID: FCC ID: PY7TS-0040.

After confirming through preliminary radiated emissions that the performance of the FCC ID: PY7TS-0040 remains representative of FCC ID: PY7TM-0050, test data for FCC ID: PY7TM-0050 is being submitted for this application to cover WLAN/Bluetooth/ANT+ and NFC features.

Radiated emissions were fully re-evaluated against FCC Part 15B requirements for digital devices and results indicated no significant differences between the two versions due to the depopulation of the WWAN circuitry.

5.2. MAXIMUM OUTPUT FUNDAMENTAL FIELD STRENGTH

The ANT+ mode has maximum output fundamental field strength as follows:

Frequency Range (MHz)	Mode	Peak E-field Strength (dBuV/m)	Avg E-field Strength (dBuV/m)	Distance (m)
2403 - 2480	ANT +	72.47	72.09	3.00

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of 0.4 dBi.

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, and Z it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Sony	EP880	3514W01 S08489 SEM 060	DoC
Earphone	Sony	MH410c	14071EB60060A84	DoC
MHL cable	Sony	N/A	N/A	N/A

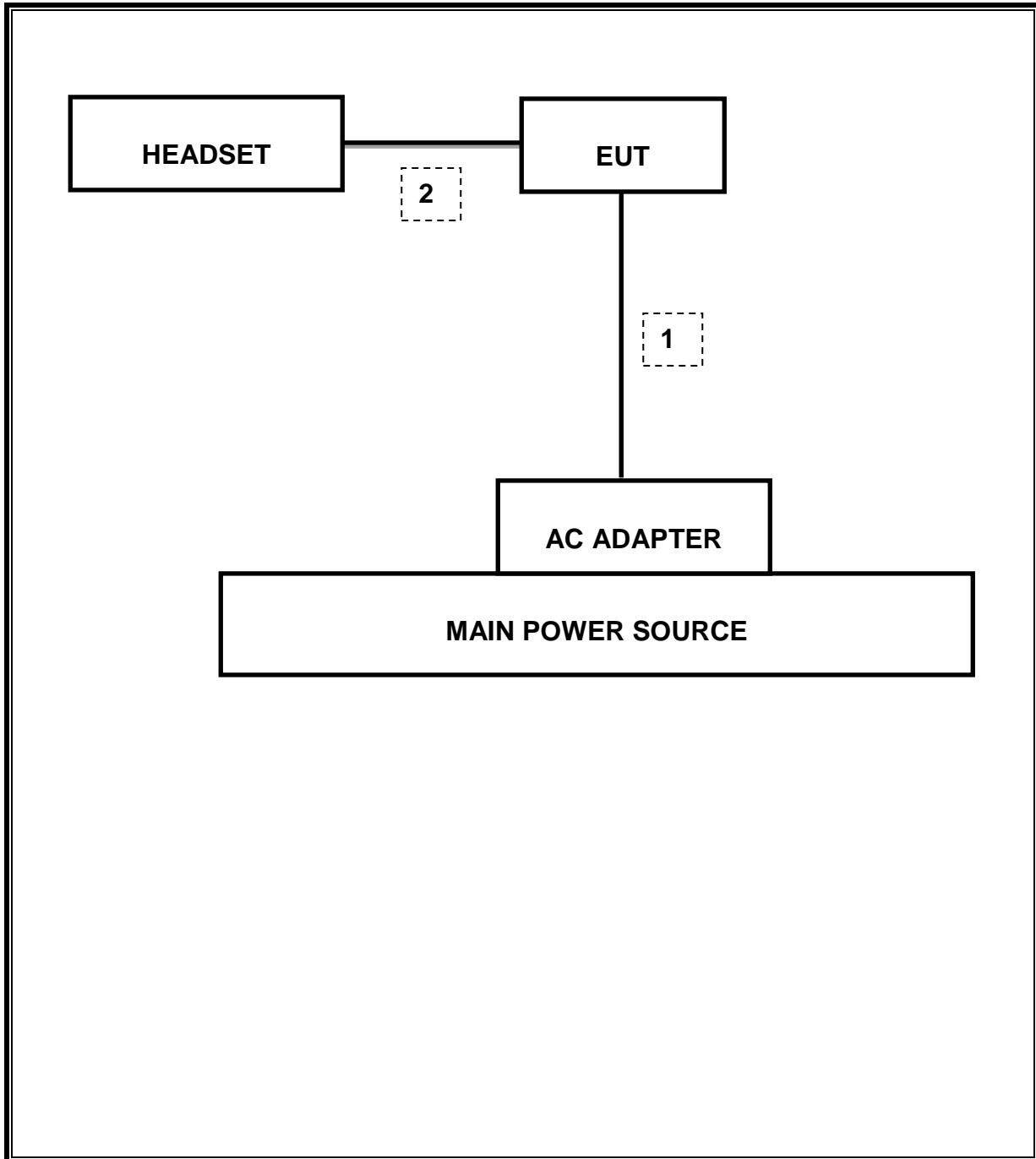
I/O CABLES

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 set to continuously transmit in ANT + test mode

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
Antenna, Biconolog, 30MHz-1 G	Sunol Sciences	JB1	C01171	02/13/15
Antenna, Horn, 18GHz	EMCO	3115	C00783	10/25/14
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/14
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
CBT Bluetooth Tester	R & S	CBT	None	07/12/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/14
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/14
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/15
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR

7. LIMITS AND RESULTS

7.1. 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

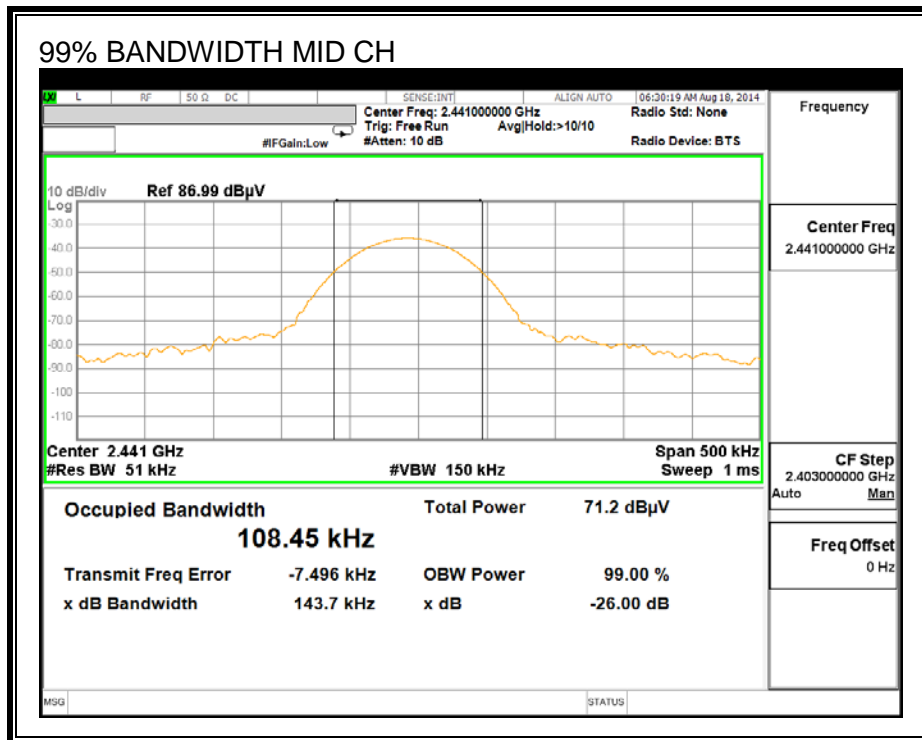
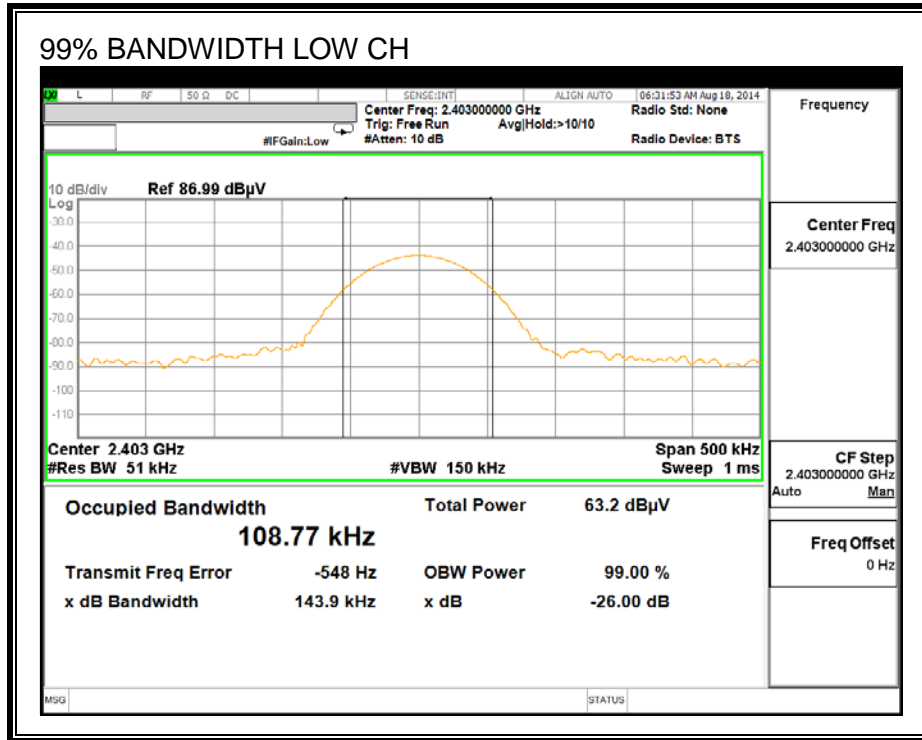
TEST PROCEDURE

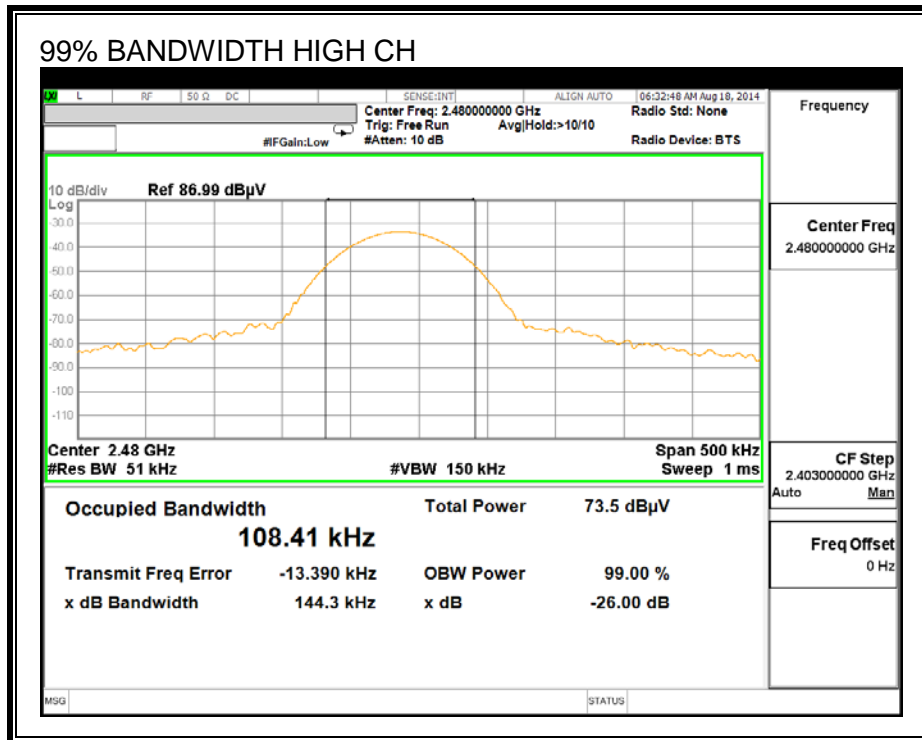
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2403	0.108
Middle	2442	0.108
High	2480	0.108

99% BANDWIDTH





7.2. TRANSMITTER RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

LIMIT

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz.

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

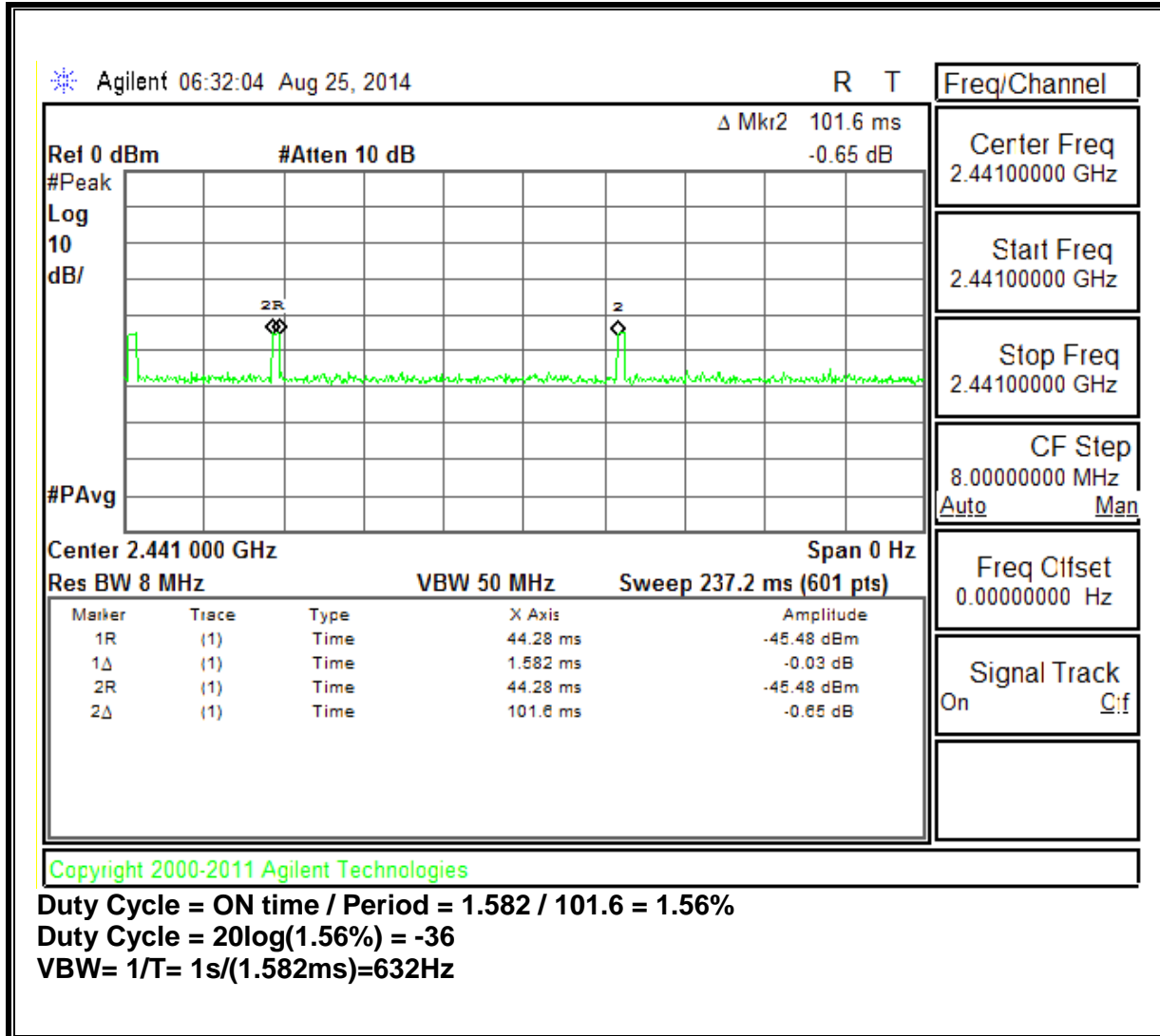
(e) As shown in Sec. 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100 **	3
88–216	150 **	3
216–960	200 **	3
Above 960	500	3


** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

RESULTS

7.2.1. DUTY CYCLE



7.2.2. FUNDAMENTAL FREQUENCY RADIATED EMISSION



FCC, VCCI, CISPR, CE, AUSTEL, NZ
 UL, CSA, TUV, BSMI, DHHS, NVLAP
 47173 BENICIA STREET, FREMONT, CA 94538, USA

Project #: 14U17934
Report #: _____
Date & Time: 08/21/14
Test Engr: G. Chan, E. Lee, M. Zarin, L. Lee

Company: Sony
EUT Description: X-Pos EUT w/ AC charger
Test Configuration: ANT+ Fundamental
Type of Test: FCC
Mode of Operation: Transmitting : ANT+ mode

M% = ((t1+t2+t3+...)/T) * 66.83% = 1.56%

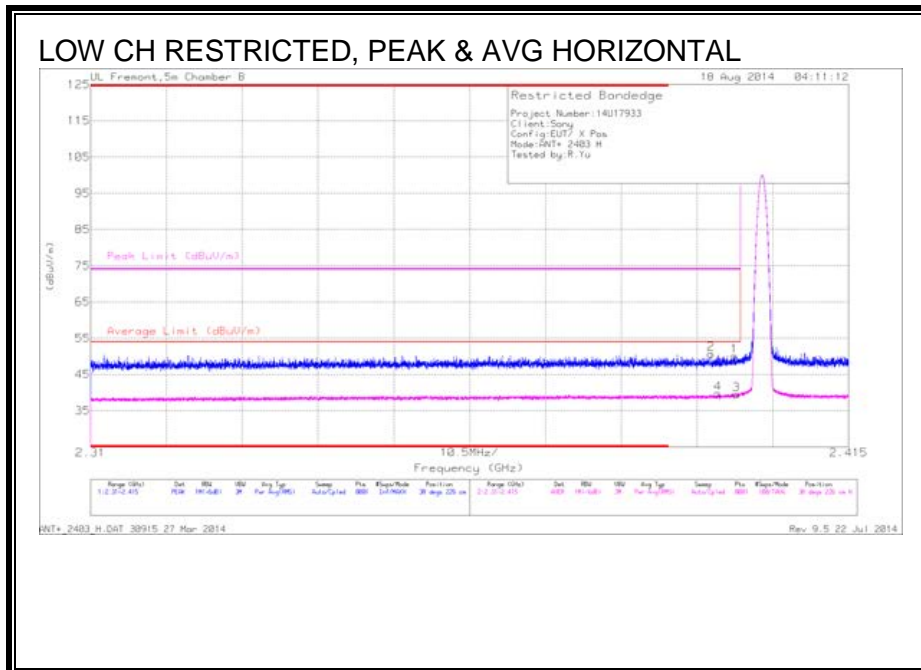
Av Reading = Pk Reading + 20*log(M%)
20 * log (M%) = -36.14

Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Pk Level	Av Level	Pk Limit	Av Limit	Pk Margin	Avg Margin	Pol	Az	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	FCC_B	FCC_B	(dB)	(dB)	(H/V)	(Deg)	(cm)
Low channel														
2403.00	54.62	53.90	32.10	-20.00	0.00	66.72	66.00	114.00	94.00	-47.28	-28.00	3mV	36.00	346.00
2403.00	55.89	55.40	32.10	-20.00	0.00	67.99	67.50	114.00	94.00	-46.01	-26.50	3mH	304.00	350.00
Mid channel														
2441.00	57.46	56.92	32.10	-20.00	0.00	69.56	69.02	114.00	94.00	-44.44	-24.98	3mV	3.00	339.00
2441.00	60.37	59.99	32.10	-20.00	0.00	72.47	72.09	114.00	94.00	-41.53	-21.91	3mH	320.00	336.00
High channel														
2480.00	53.38	52.45	32.10	-20.00	0.00	65.48	64.55	114.00	94.00	-48.52	-29.45	3mV	354.00	330.00
2480.00	56.80	56.16	32.10	-20.00	0.00	68.90	68.26	114.00	94.00	-45.10	-25.74	3mH	305.00	274.00

AVG VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

7.2.3. TRANSMITTER RESTRICTED BAND EDGES

RESTRICTED BANDEDGE (LOW CHANNEL)



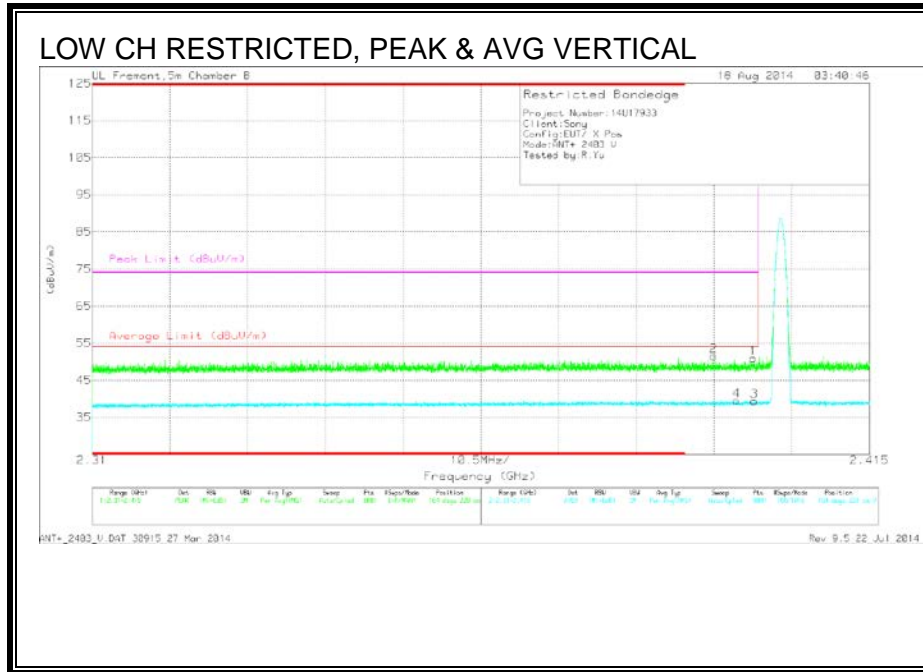
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Chl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.396	41.01	PK	32.1	-22.4	50.71	-	-	74	-23.29	38	226	H
4	2.397	30.04	RMS	32.1	-22.4	39.74	54	-14.26	-	-	38	226	H
1	2.399	40.39	PK	32.1	-22.4	50.09	-	-	74	-23.91	38	226	H
3	2.399	29.84	RMS	32.1	-22.4	39.54	54	-14.46	-	-	38	226	H

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

PK - Peak detector

RMS - RMS detection

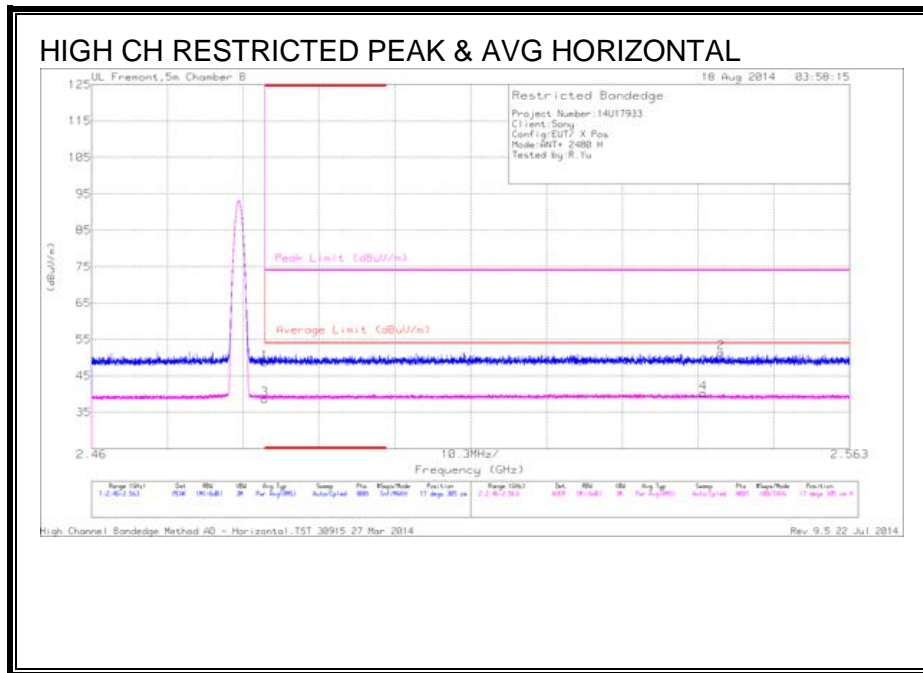


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.394	41.85	PK	32.1	-22.4	51.55	-	-	74	-22.45	164	228	V
4	2.397	29.81	RMS	32.1	-22.4	39.51	54	-14.49	-	-	164	228	V
1	2.399	41.18	PK	32.1	-22.4	50.88	-	-	74	-23.12	164	228	V
3	2.399	29.7	RMS	32.1	-22.4	39.4	54	-14.6	-	-	164	228	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector
 RMS - RMS detection

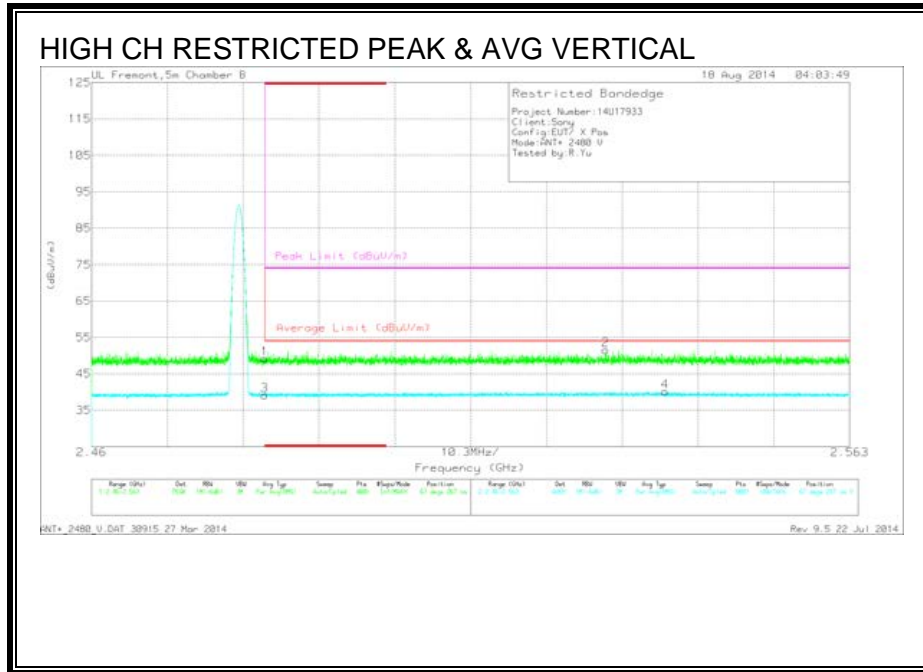
RESTRICTED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.73	PK	32.4	-22.4	48.73	-	-	74	-25.27	17	305	H
3	* 2.484	28.64	RMS	32.4	-22.4	38.64	54	-15.36	-	-	17	305	H
4	2.543	29.95	RMS	32.5	-22.2	40.25	54	-13.75	-	-	17	305	H
2	2.546	40.99	PK	32.5	-22.1	51.39	-	-	74	-22.61	17	305	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector
 RMS - RMS detection




Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Chl/Fltr/Pad (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	39.14	PK	32.4	-22.4	49.14	-	-	74	-24.86	67	267	V
3	* 2.484	29.16	RMS	32.4	-22.4	39.16	54	-14.84	-	-	67	267	V
2	2.53	41.29	PK	32.5	-22.2	51.59	-	-	74	-22.41	67	267	V
4	2.538	29.75	RMS	32.5	-22.1	40.15	54	-13.85	-	-	67	267	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHZ

HARMONICS



FCC, VCCI, CISPR, CE, AUSTEL, NZ
 UL, CSA, TUV, BSMI, DHHS, NVLAP

47173 BENICIA STREET, FREMONT, CA 94538, USA

Project #: 14U17933

Report #: 14U17933

Date & Time: 08/18/14

Test Engr: Ryan Yu

Company: Sony

EUT Description: GSM/WCDMA/LTE + BLUETOOTH & WLAN (2.4 & 5GHZ) Tablet

Test Configuration: X POSITION

Type of Test: FCC

Mode of Operation: Transmitting : ANT+ mode

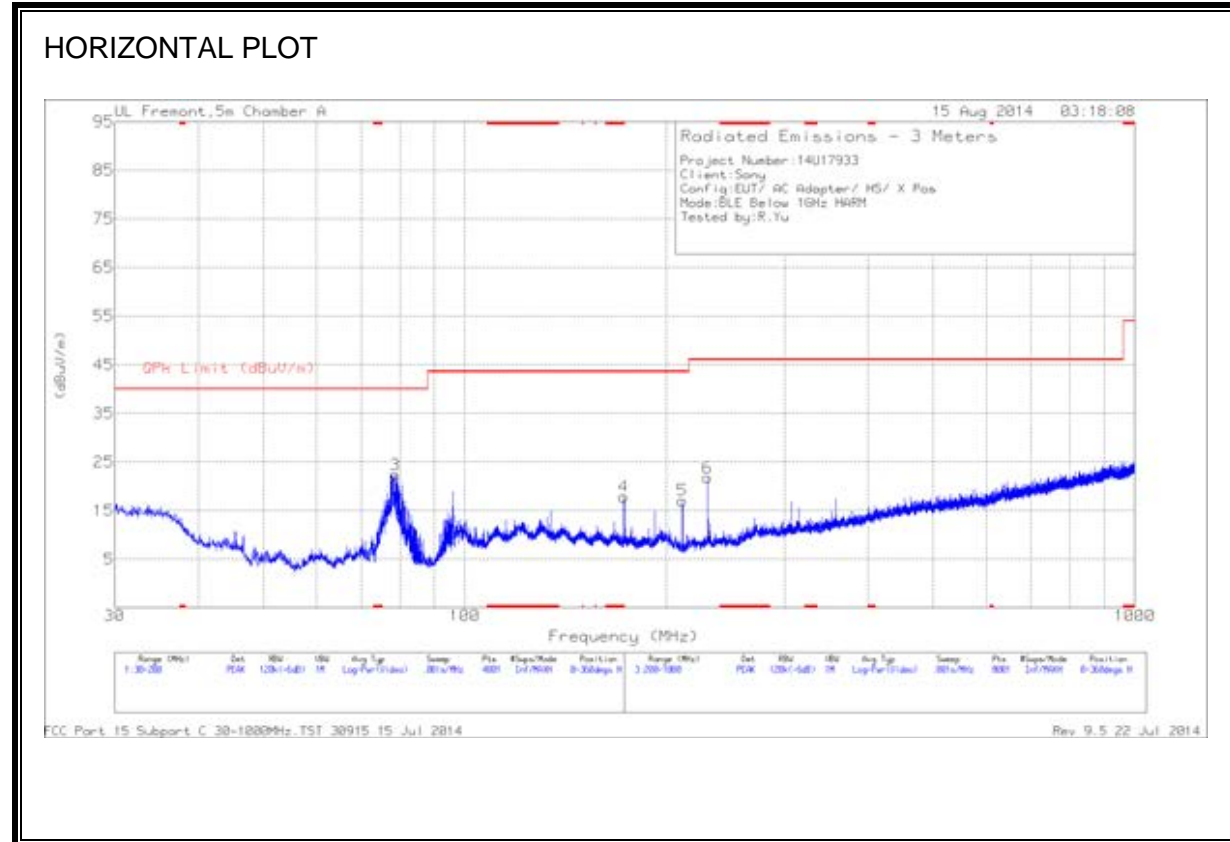
M% = ((t1+t2+t3+...)/T) * 66.83% = 1.56%

Av Reading = Pk Reading + 20*log(M%)
20 * log (M%) = -36.14

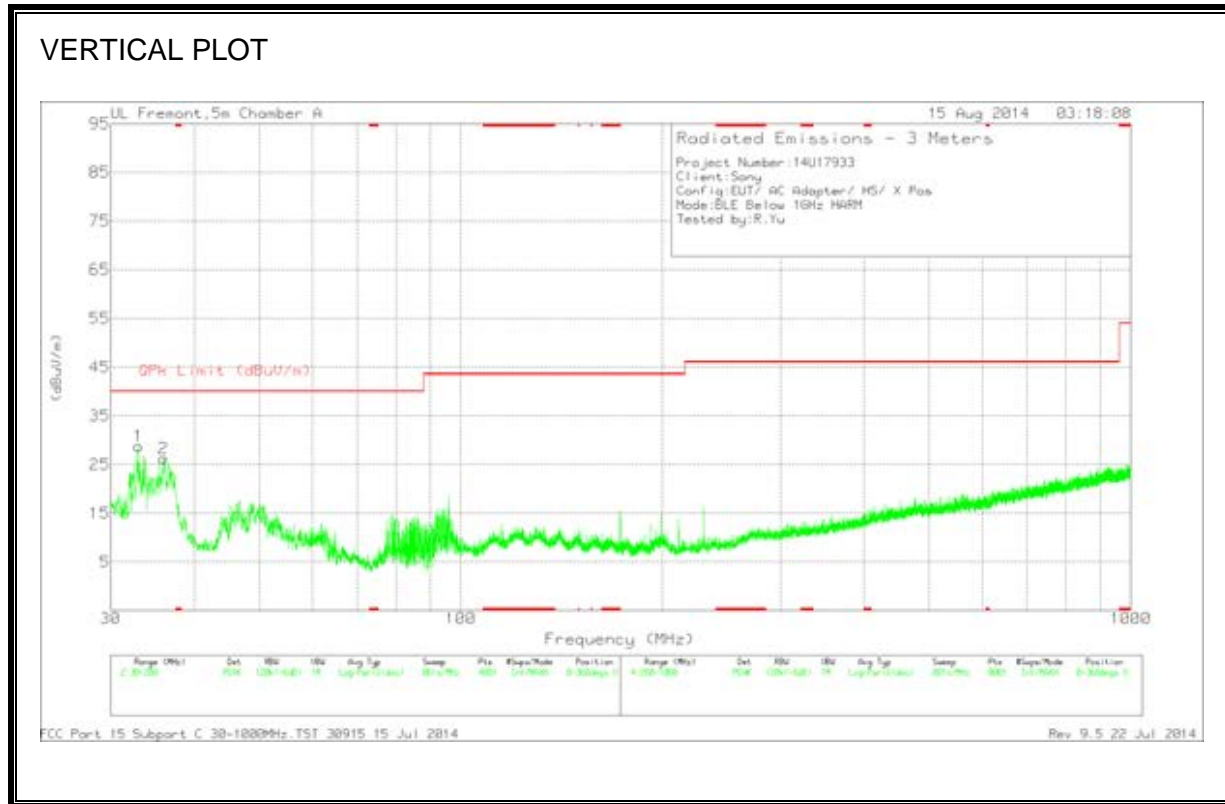
Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Class (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC B	Av Limit FCC B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
Low channel														
4806.00	42.64	31.80	32.10	-20.00	0.00	54.74	43.90	74.00	54.00	-19.26	-10.10	3mV	297.00	3.44
4806.00	43.17	31.91	32.10	-20.00	0.00	55.27	44.01	74.00	54.00	-18.73	-9.99	3mH	90.00	2.79
Mid channel														
4882.00	43.18	32.03	32.10	-20.00	0.00	55.28	44.13	74.00	54.00	-18.72	-9.87	3mV	316.00	3.67
4882.00	43.77	32.58	32.10	-20.00	0.00	55.87	44.68	74.00	54.00	-18.13	-9.32	3mH	110.00	2.24
High channel														
4960.00	43.27	32.45	32.10	-20.00	0.00	55.37	44.55	74.00	54.00	-18.63	-9.45	3mV	280.00	3.49
4960.00	37.46	32.20	32.10	-20.00	0.00	49.56	44.30	74.00	54.00	-24.44	-9.70	3mH	38.00	2.25

7.2.4. SPURIOUS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (VERTICAL)



Trace Markers

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
4	* 172.8	36.17	PK	11.7	-30	17.87	43.52	-25.65	0-360	200	H
1	33.0175	40.39	PK	19.5	-31.1	28.79	40	-11.21	0-360	101	V
2	35.9925	40.07	PK	17.3	-31.1	26.27	40	-13.73	0-360	101	V
3	78.705	45.61	PK	7.7	-30.9	22.41	40	-17.59	0-360	300	H
5	211.2	36.4	PK	10.5	-29.8	17.1	43.52	-26.42	0-360	101	H
6	230.4	40.29	PK	11.1	-29.6	21.79	46.02	-24.23	0-360	101	H

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

8. 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

ANSI C63.4 - 2009

RESULTS

6 WORST EMISSIONS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.2715	29.87	PK	.6	0	30.47	61.1	-30.63	-	-
2	.2715	2.69	Av	.6	0	3.29	-	-	51.1	-47.81
3	.6135	20.17	PK	.3	0	20.47	56	-35.53	-	-
4	.6135	8.94	Av	.3	0	9.24	-	-	46	-36.76
5	1.6305	13.11	PK	.2	.1	13.41	56	-42.59	-	-
6	1.6305	-3.54	Av	.2	.1	-3.24	-	-	46	-49.24
7	2.598	20.76	PK	.2	.1	21.06	56	-34.94	-	-
8	2.598	-1.17	Av	.2	.1	-.87	-	-	46	-46.87
9	3.2685	14.64	PK	.2	.1	14.94	56	-41.06	-	-
10	3.2685	-3.45	Av	.2	.1	-3.15	-	-	46	-49.15
11	5.7165	17.78	PK	.2	.1	18.08	60	-41.92	-	-
12	5.7165	-1.97	Av	.2	.1	-1.67	-	-	50	-51.67

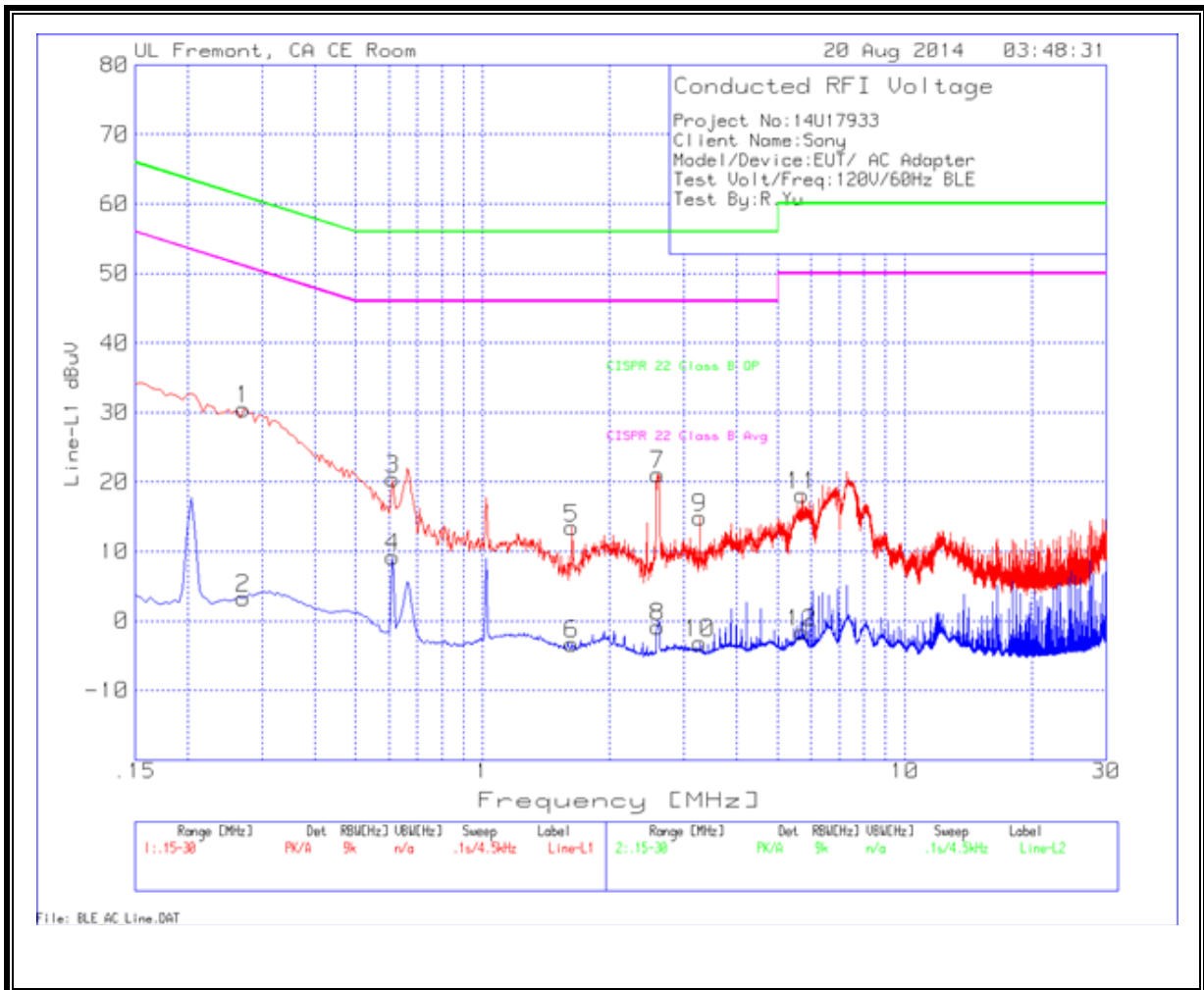
Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
13	.6675	24.35	PK	.3	0	24.65	56	-31.35	-	-
14	.6675	3.7	Av	.3	0	4	-	-	46	-42
15	1.0185	17.86	PK	.3	0	18.16	56	-37.84	-	-
16	1.0185	10.11	Av	.3	0	10.41	-	-	46	-35.59
17	1.428	15.02	PK	.2	.1	15.32	56	-40.68	-	-
18	1.428	7.6	Av	.2	.1	7.9	-	-	46	-38.1
19	4.839	12.94	PK	.2	.1	13.24	56	-42.76	-	-
20	4.839	-4.76	Av	.2	.1	-4.46	-	-	46	-50.46
21	7.5345	22.11	PK	.2	.1	22.41	60	-37.59	-	-
22	7.5345	4.54	Av	.2	.1	4.84	-	-	50	-45.16
23	27.537	16.27	PK	.3	.3	16.87	60	-43.13	-	-
24	27.537	11.93	Av	.3	.3	12.53	-	-	50	-37.47

PK - Peak detector
 Av - average detection

LINE 1 RESULTS



LINE 2 RESULTS

