



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-216 ISSUE 2**

CERTIFICATION TEST REPORT

FOR

MAGNETIC CHARGING CABLE

MODEL NO: A2055

FCC ID: BCGA2055

IC: 579C-A2055

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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION	6
4.2. SAMPLE CALCULATION	6
4.3. MEASUREMENT UNCERTAINTY.....	7
5. EQUIPMENT UNDER TEST	8
5.1. DESCRIPTION OF EUT	8
5.2. MAXIMUM OUTPUT POWER.....	8
5.3. SOFTWARE AND FIRMWARE.....	8
5.4. WORST-CASE CONFIGURATION AND MODE.....	8
5.5. DESCRIPTION OF TEST SETUP.....	10
6. TEST AND MEASUREMENT EQUIPMENT	13
7. OCCUPIED BANDWIDTH	14
7.1.1. CONFIGURATION 1.....	15
7.1.2. CONFIGURATION 2.....	15
7.1.3. CONFIGURATION 3.....	16
8. RADIATED EMISSION TEST RESULTS.....	17
8.1. LIMITS AND PROCEDURE	17
8.2. STAINLESS STEEL WITH 0.3M CABLE	19
8.2.1. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz	19
8.2.2. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz	21
8.2.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz	23
8.2.4. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz	27
8.3. STAINLESS STEEL WITH 1M CABLE	31
8.3.1. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz	31
8.3.2. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz	33
8.3.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz	35
8.3.4. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz	39
9. AC POWER LINE CONDUCTED EMISSIONS.....	43

9.1.	STAINLESS STEEL WITH 0.3M CABLE	44
9.1.1.	STANDBY MODE POWERED BY AC/DC ADAPTER.....	44
9.1.2.	OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER.....	46
9.1.3.	STANDBY MODE POWERED BY HOST PC VIA USB CABLE	48
9.1.4.	OPERATING MODE POWERED BY HOST PC VIA USB CABLE	50
9.2.	STAINLESS STEEL WITH 1M CABLE	52
9.2.1.	STANDBY MODE POWERED BY AC/DC ADAPTER.....	52
9.2.2.	OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER.....	54
9.2.3.	STANDBY MODE POWERED BY HOST PC VIA USB CABLE	56
9.2.4.	OPERATING MODE WITH WATCH POWERED BY HOST PC VIA USB CABLE	58
10.	SETUP PHOTOS	60

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE, INC.
ONE APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: MAGNETIC CHARGING CABLE

MODEL NUMBER: A2055

SERIAL NUMBER: DLC826400VRJL5F4D, DLC831500J0L41Y1W

DATE TESTED: AUGUST 16 to SEPTEMBER 5, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies
INDUSTRY CANADA RSS-216 ISSUE 2	Complies
INDUSTRY CANADA RSS-GEN ISSUE 5	Complies

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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Prepared By:



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SENIOR TEST ENGINEER
UL VERIFICATION SERVICES INC.

JINGANG LI
LAB ENGINEER
UL VERIFICATION SERVICES INC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, and FCC CFR 47 Part 15, RSS-GEN Issue 5 and RSS-216 Issue 2 January 2016.

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: 22541-1)
☐ Chamber B (IC:2324B-2)	☒ Chamber E (IC: 22541-2)
☐ Chamber C (IC:2324B-3)	☐ Chamber F (IC: 22541-3)
	☐ Chamber G (IC: 22541-4)
	☐ Chamber H (IC: 22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at [NVLAP Lab Search](#).

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, 9KHz to 0.15 MHz	3.84 dB
Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a magnetic charging cable which has a single inductive charging coil to charge Apple Watch. The charging frequency is 326.5 kHz, and the maximum power consumption is 5W in charging status.

5.2. MAXIMUM OUTPUT POWER

The transmitter has maximum peak radiated electric and magnetic field strength as follows:

Fundamental Frequency (KHz)	Mode	E field (300m distance) FCC (dBuV/m)	H field (3m distance) IC (dBuA/m)
326.5	Standby (Config 1)	-21.94	5.03
326.5	Operating (Config 2)	-23.37	4.11

5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was FW 9.0.1 (1m Cable) AND FW 9.0.9 (0.3m Cable).

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT is a single frequency magnetic charger enclosed in a plastic case. For the entire radiated emissions test, the EUT was investigated on the following configuration during the test at its natural orientation.

Config	Mode	Descriptions
1	Standby	EUT Alone powered by AC/DC adapter
2	Operating	EUT and Watch powered by AC/DC adapter

For below 30MHz & 1GHz tests EUT was connected to AC power adapter as the worst case, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with the following configurations.

Config	Mode	Descriptions
1	Standby	EUT Alone powered by AC/DC adapter
2	Operating	EUT and Watch powered by AC/DC adapter
3	Standby	EUT Alone powered by laptop
4	Operating	EUT and Watch powered by laptop

The EUT was tested as standby and operation modes. During operational mode, EUT was tested with two different sizes of watches, small and big of having similar mechanical structure.

For all radiated emissions tests, both small and big watches were investigated and no significant different in reading was found between both watches; the big watch was chosen to test as the worst case condition since it has max load overall, hence all final data for operational mode represents EUT with the big watch. During the charging process, the watch actively indicates the status of the charging process. Device being charged was at a state of 20 – 50% charged.

For below 30MHz testing, investigation was done on three antenna orientations: RX antenna Face-on, Face-off and horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-on and Face-off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 300 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT & PERIPHERALS

SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC adapter	Apple	A1385	N/A	N/A
Watch	Apple	A2007	D92X303AKTK6	BCG-A2007
Laptop	Apple	MacBook Pro	C02WW05BKGHJ	FCC DoC
Laptop Adapter	Apple	A1718	C4H7366020UGN8RA4	N/A
Charging Base	Apple	N/A	920-00855-01	N/A

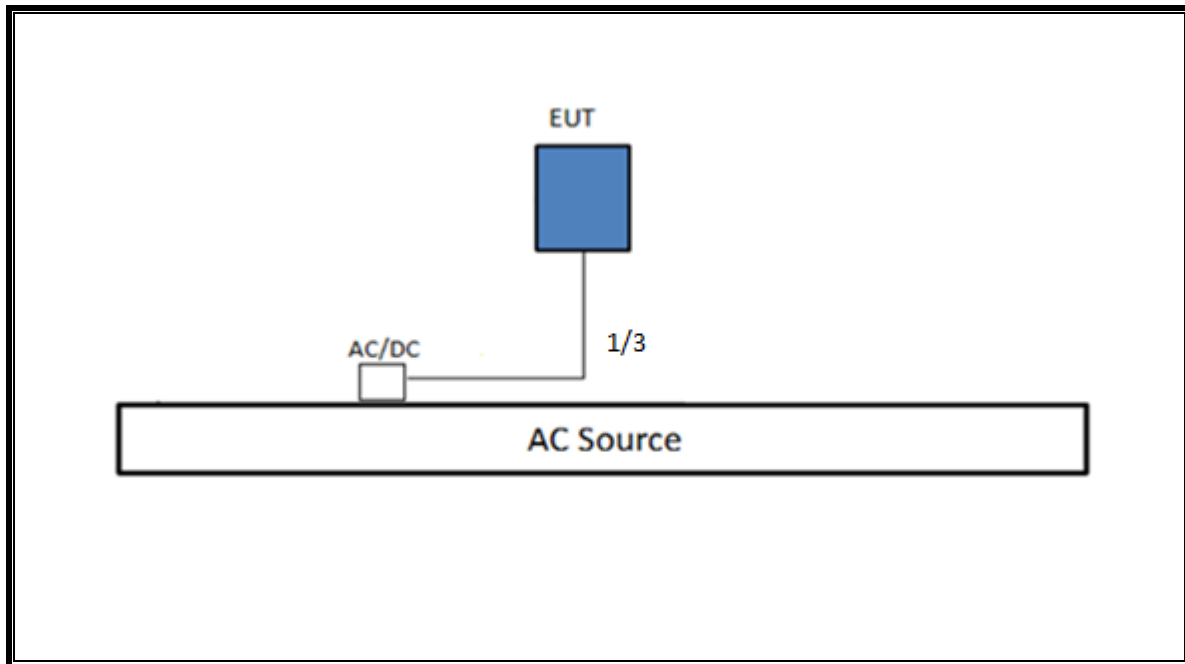
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	USB	Un-shielded	1	5W Power Supply
2	DC	1	USB	Un-shielded	0.3	5W Power Supply
3	DC	1	Magnetic 5 pin	Un-shielded	2	61W Power Supply

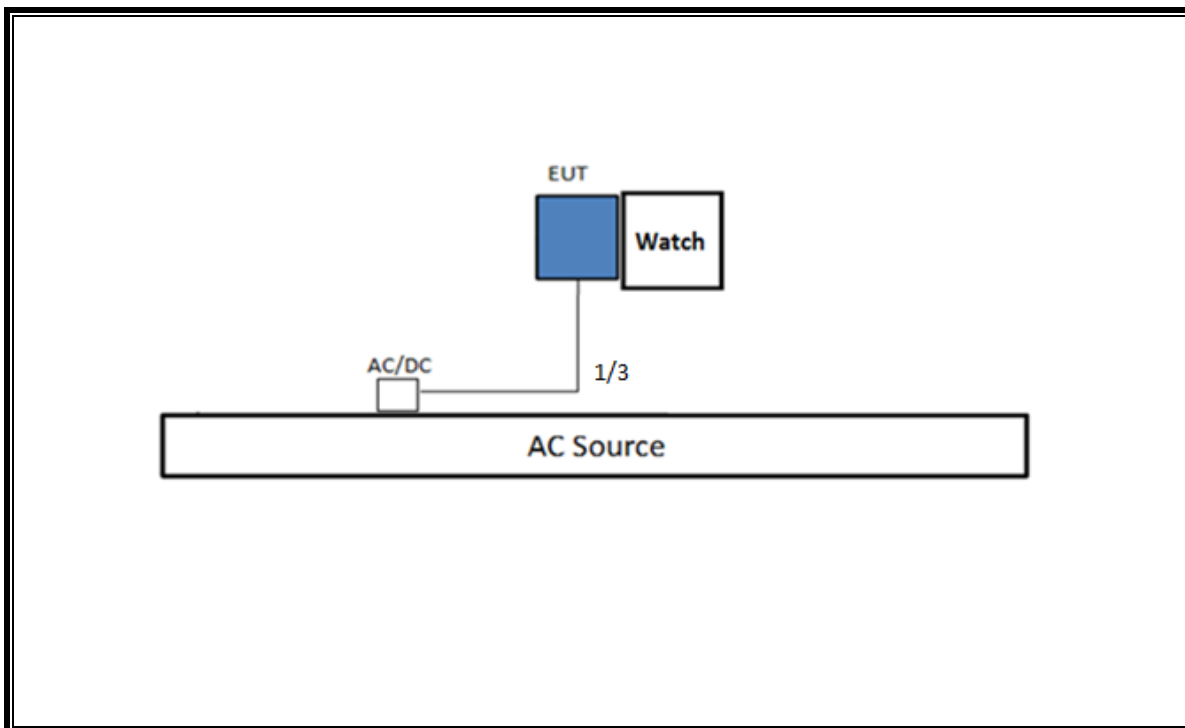
TEST SETUP

Please see the following configurations for the test setups. Configurations 1 and 2 indicate that the EUT is directly connected to an AC/DC adapter via USB cable. Configurations 3 and 4 indicate that the EUT is directly connected to a Host PC via USB cable.

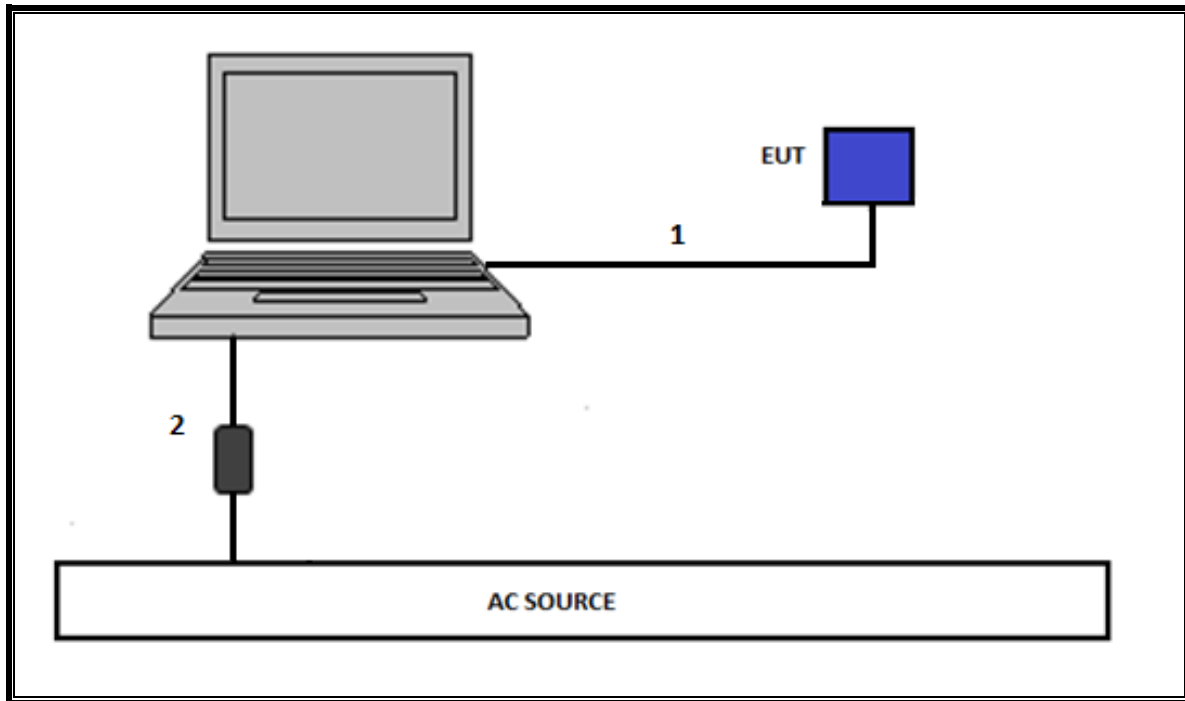
CONFIGURATION 1: STANDBY MODE



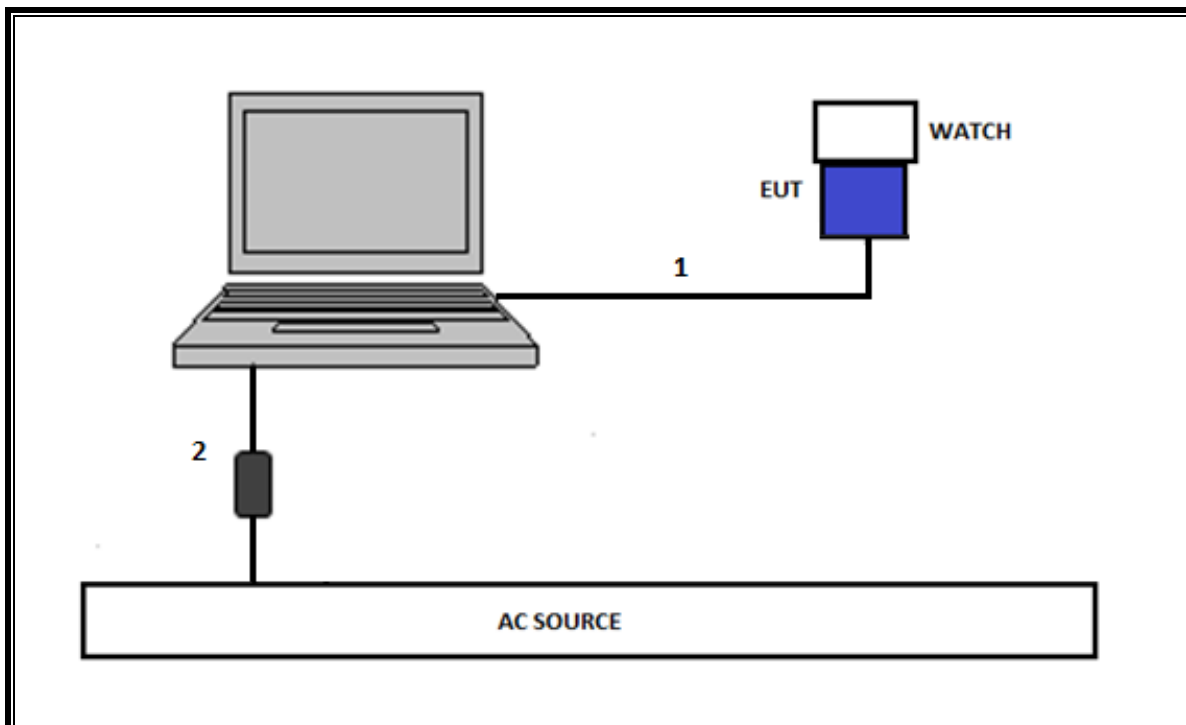
CONFIGURATION 2: OPERATING MODE WITH WATCH



CONFIGURATION 3: STANDBY MODE BY HOST PC VIA USB CABLE



CONFIGURATION 4: OPERATING MODE WITH WATCH BY HOST PC VIA USB CABLE



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	ID Num	Cal Due
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	T899	07/24/2019
Amplifier, 10KHz to 1GHz, 32dB	Sonoma Instrument Co.	310N	T285	07/06/2019
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T907	02/07/2019
Thermometer	Control Company	14-650-118, 15557603	T1816	01/11/2019
Antenna, Active Loop 9kHz-30MHz	ETS-Lindgren	6502	T1616	09/14/2018
Sniffer Probes	Electro Metrics	EM-6992	N/A	N/A
AC Line Conducted				
EMI Test Receiver 9KHz-7GHz	Rohde & Schwarz	ESC17	T1436	01/25/2019
Power Cable, Line Conducted Emissions	UL	PG1	T861	08/31/2018
LISN for Conducted Emissions CISPR-16	Fischer	50/250-25-2-01	T1310	06/15/2019

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver. 9.5, April 26, 2016

7. OCCUPIED BANDWIDTH

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 200Hz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

Note that when the EUT was in standby mode the only signal that comes out from the EUT was the intentional charging signal of 326.5kHz. On the other hand, when the EUT was in operational mode there were two signals. One of the intentional charging signal of 326.5kHz and the other one the control signal of 340kHz that controls the communication/charging status between EUT and the client device-the watch.

EUT SETUP

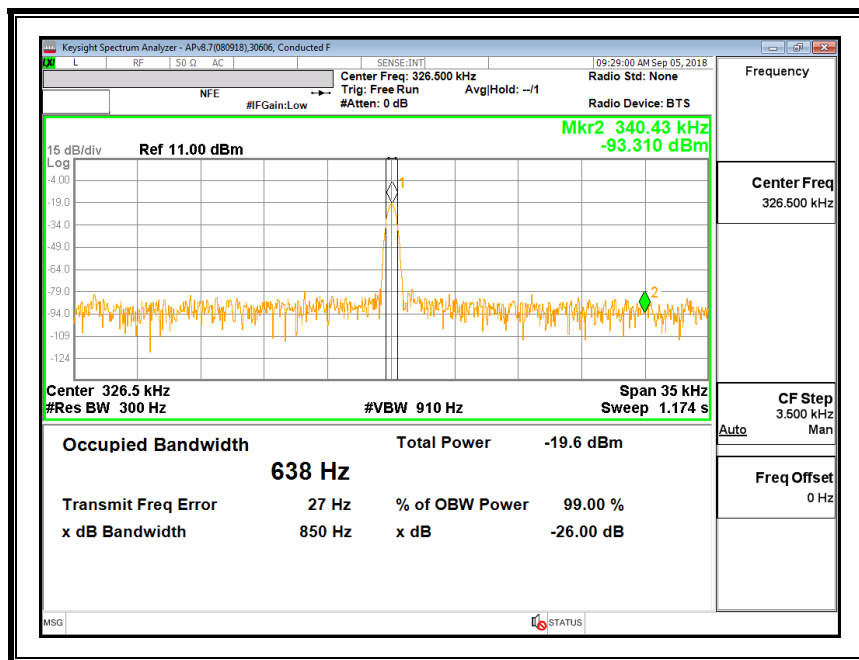
Configuration 1: Charger in standby mode, transmitting low duty cycle CW signal at 326.5kHz test.

Configuration 2: Charger in pairing mode with FSK modulation (-0/+15 kHz) which occurs over a very short period of time as soon as the watch is placed on the charger.

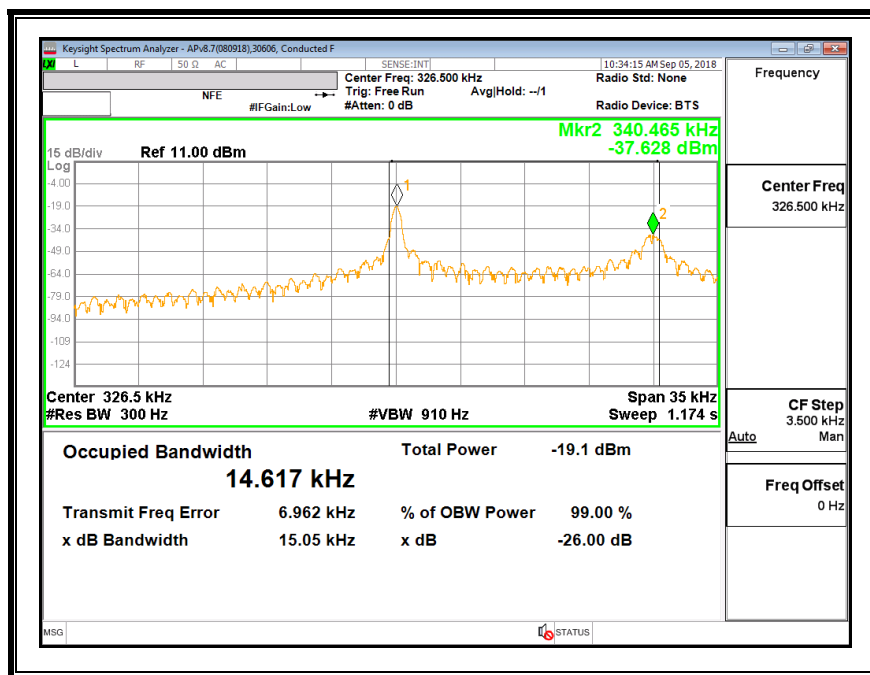
Configuration 3: Charger in charging mode with CW signal and duty cycle varied to control charge level via load modulation from watch.

RESULTS

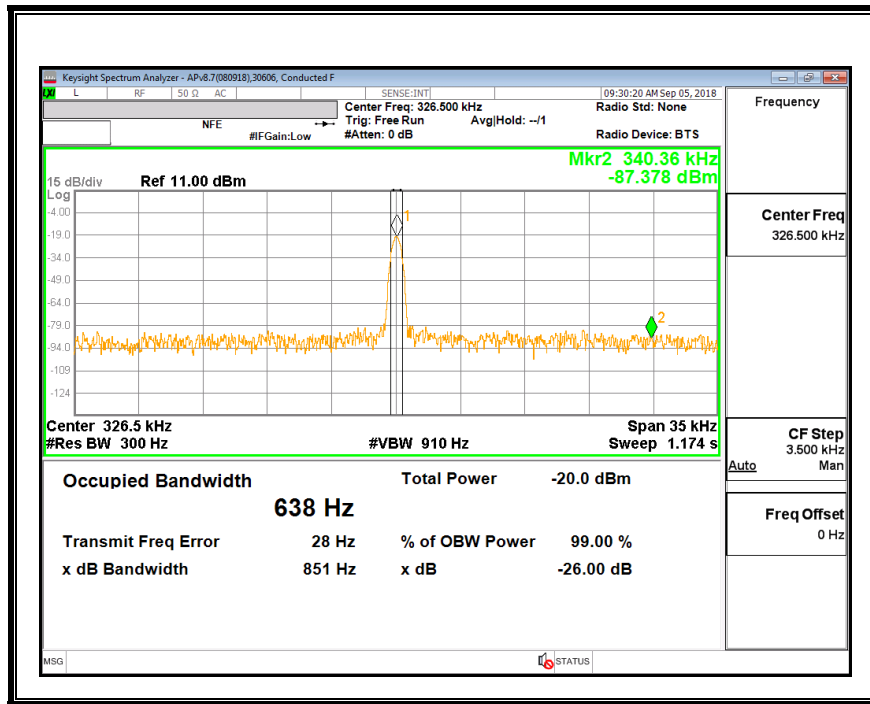
7.1.1. CONFIGURATION 1



7.1.2. CONFIGURATION 2



7.1.3. CONFIGURATION 3



8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.209 (a)

ICES-001 Section 6.2, IC RSS-216 6.2.2, and IC RSS-GEN Sections 8.9 and 8.10.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (m)
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 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Note: The lower limit shall apply at the transition frequency.		

CISPR 11:04

Electromagnetic radiation disturbance limits for class B group 2 equipment measured on a test site

Frequency Range (MHz)	Magnetic Field Strength Limit Class B Group 2 @ 3m Distance (dBuA/m)
	Quasi-peak
0.009 - 0.070	69
0.070 - 0.1485	69 Decreasing Linearly with Logarithm of Frequency to 39
0.1485 - 4.0	39 Decreasing Linearly with Logarithm of Frequency to 3
4.0 - 30	3

The limits of this table apply to induction cooking appliances intended for commercial use and those for domestic use with a diagonal diameter of more than 1.6m.
The measurements are performed at 3m distance with a 0.6 m loop antenna as described in 4.2.1 of CISPR 16-1-4.
The antenna should be vertically installed, with the lower edge of the loop at 1m height above the floor.

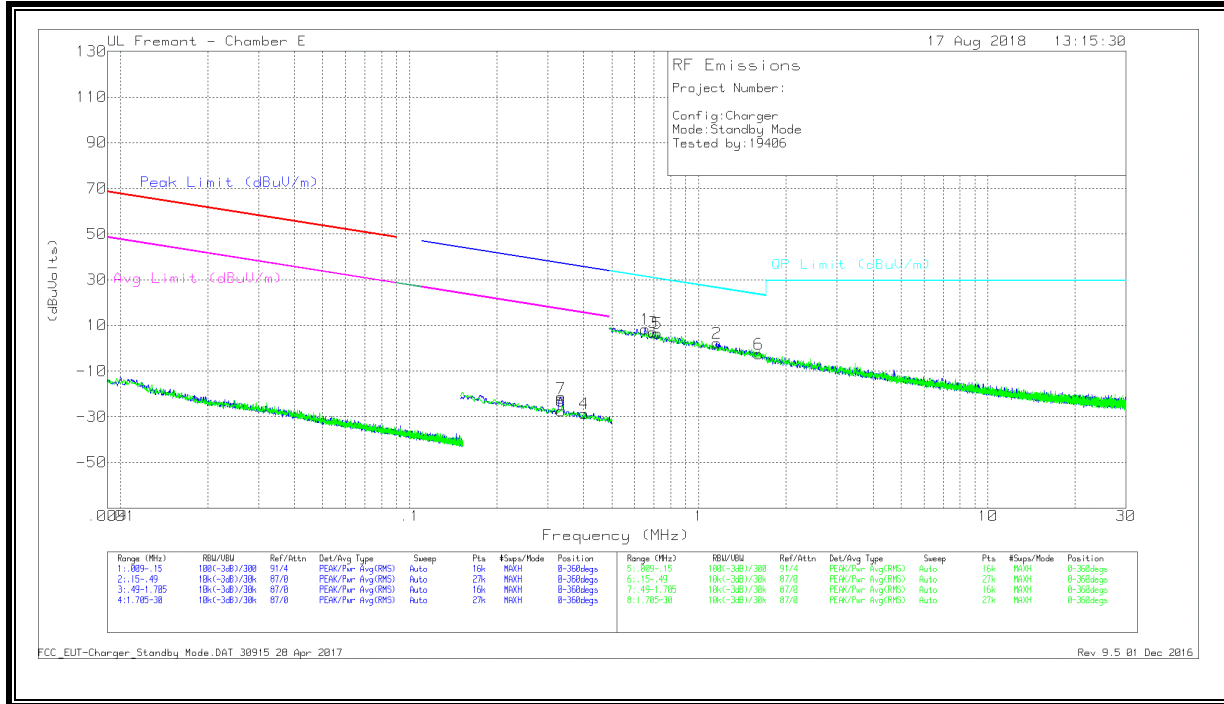
Frequency Range (MHz)	Electric Field Strength Limit Class B Group 2 @ 3m Distance (dBuV/m)	
	Quasi-peak	Average
30 – 80,872	40	35
80,872 – 81,848	60	55
81,848 – 134,786	40	35
134,786 – 136,414	60	55
136,414 – 230	40	35
230 – 1 000	47	42

RESULTS

8.2. STAINLESS STEEL WITH 0.3M CABLE

8.2.1. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

STANDBY CONFIGURATION



DATA

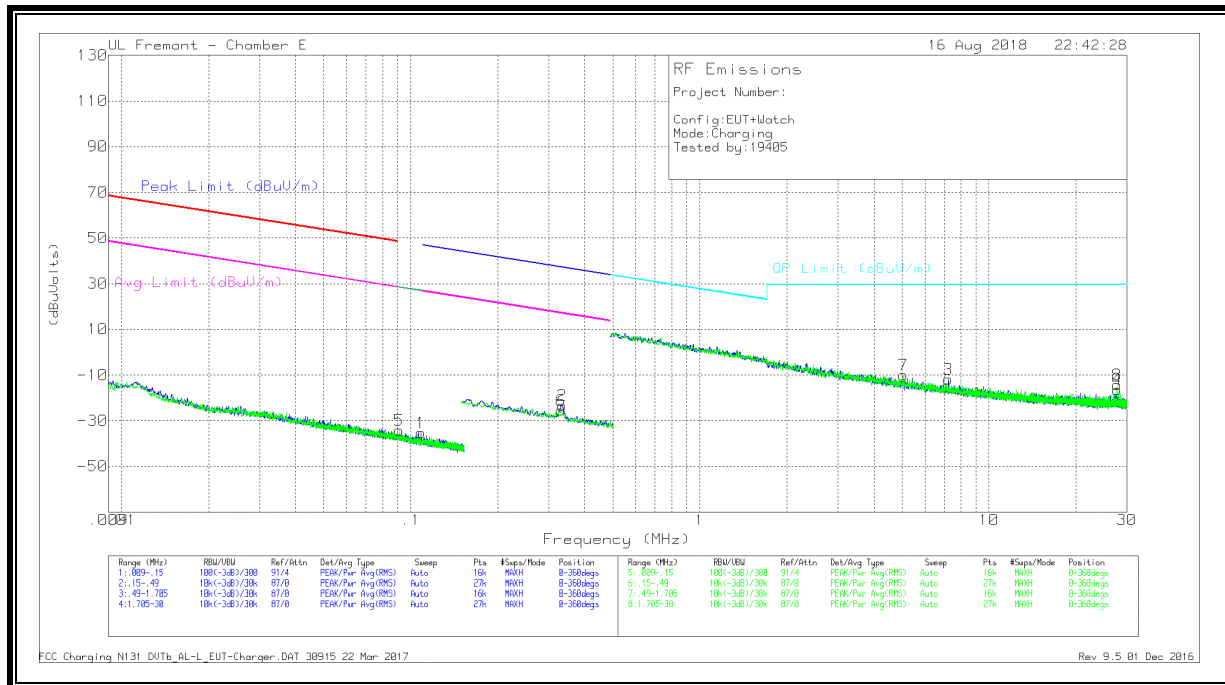
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
7	.33316	46.46	Pk	11.5	.1	-80	-21.94	37.16	-59.1	17.16	-39.1	0-360
8	.33348	40.85	Pk	11.5	.1	-80	-27.55	37.15	-64.7	17.15	-44.7	0-360
4	.4011	39.82	Pk	11.5	.1	-80	-28.58	35.54	-64.12	15.54	-44.12	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.6534	36.58	Pk	11.5	.2	-40	8.28	31.31	-23.03	0-360
3	.69448	35.29	Pk	11.5	.2	-40	6.99	30.78	-23.79	0-360
5	.71792	34.91	Pk	11.5	.2	-40	6.61	30.49	-23.88	0-360
2	1.15253	30.51	Pk	11.5	.2	-40	2.21	26.39	-24.18	0-360
6	1.60857	25.54	Pk	11.6	.2	-40	-2.66	23.5	-26.16	0-360

Pk - Peak detector

OPERATING WITH WATCH



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
5	.09124	34.22	Pk	11.5	.1	-80	-34.18	28.38	-62.56	-	-	-	-	0-360
1	.10864	33.47	Pk	11.1	.1	-80	-35.33	26.91	-62.24	-	-	-	-	0-360
6	.33082	43.53	Pk	10.9	.1	-80	-25.47	-	-	37.22	-62.69	17.22	-42.69	0-360
2	.3345	45.63	Pk	10.9	.1	-80	-23.37	-	-	37.12	-60.49	17.12	-40.49	0-360

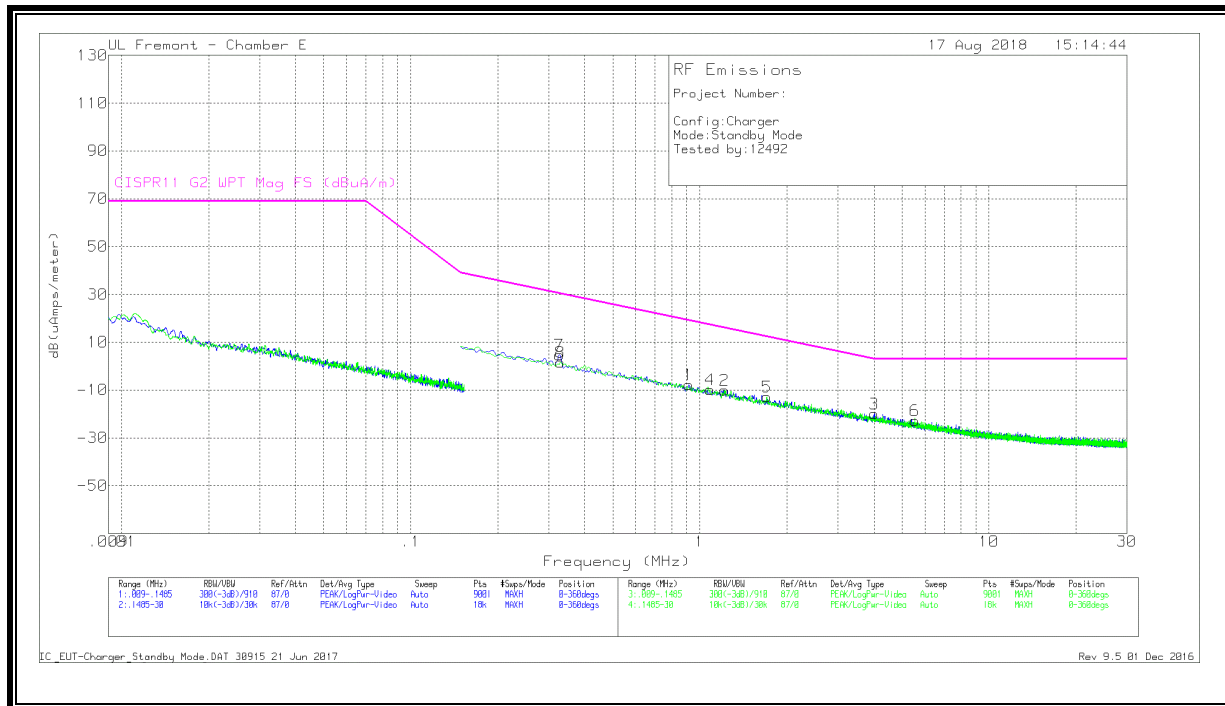
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
7	5.04183	18.43	Pk	11.2	.3	-40	-10.07	29.5	-39.57	0-360
3	7.23477	16.65	Pk	11	.4	-40	-11.95	29.5	-41.45	0-360
8	27.75514	15.21	Pk	9.9	.7	-40	-14.19	29.5	-43.69	0-360
4	27.75723	13.03	Pk	9.9	.7	-40	-16.37	29.5	-45.87	0-360

Pk - Peak detector

8.2.2. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

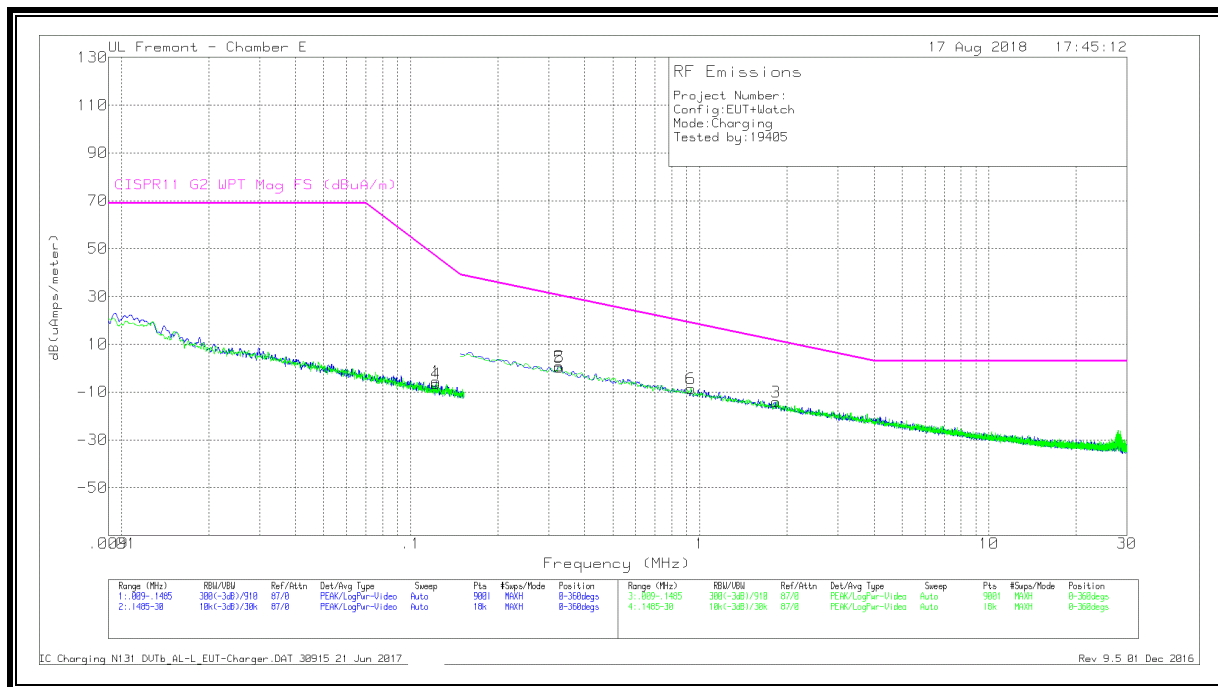
STANDBY CONFIGURATION



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
7	.32674	45.07	Pk	-40.5	.1	4.67	30.38	-25.71	0-360
8	.32922	42.03	Pk	-40.5	.1	1.63	30.3	-28.67	0-360
1	.91533	32.44	Pk	-40.4	.2	-7.76	19.12	-26.88	0-360
4	1.08361	30.22	Pk	-40.2	.2	-9.78	17.28	-27.06	0-360
2	1.21625	30.04	Pk	-40.2	.2	-9.96	16.01	-25.97	0-360
5	1.70536	27.03	Pk	-40.1	.2	-12.87	12.32	-25.19	0-360
3	4.01661	19.65	Pk	-40	.4	-19.95	3	-22.95	0-360
6	5.53534	17.18	Pk	-40.3	.4	-22.72	3	-25.72	0-360

Pk - Peak detector



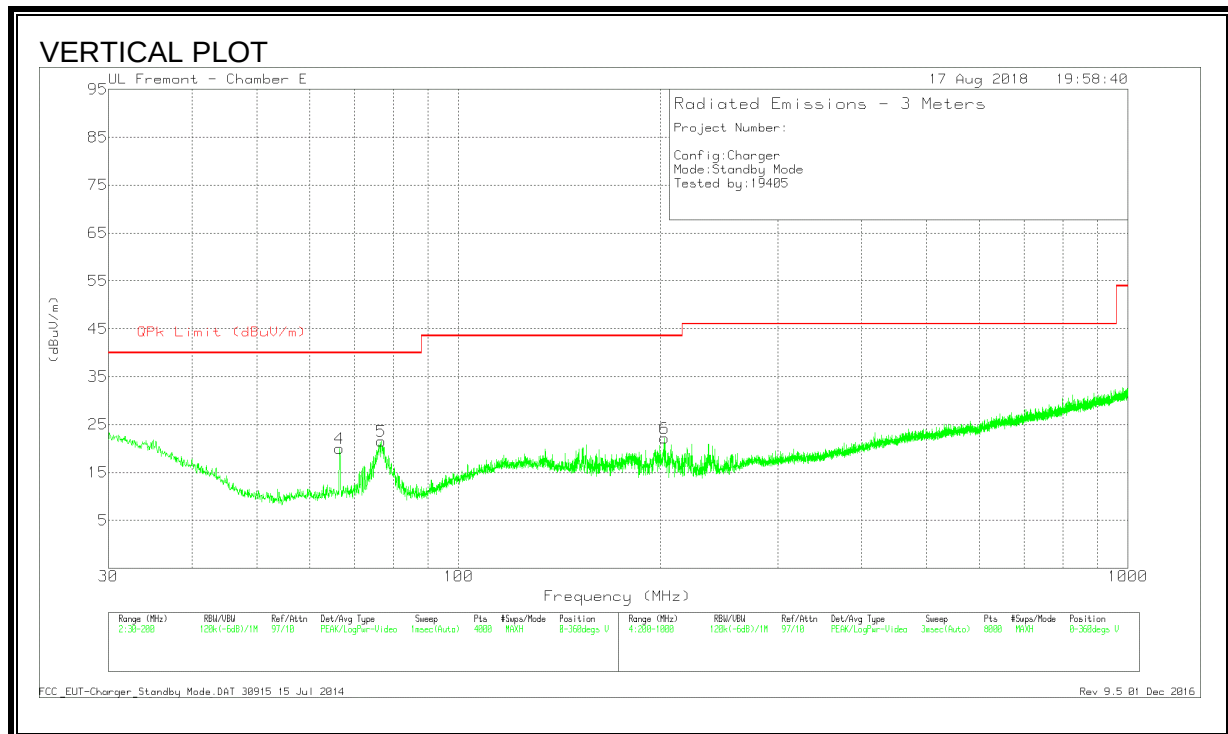
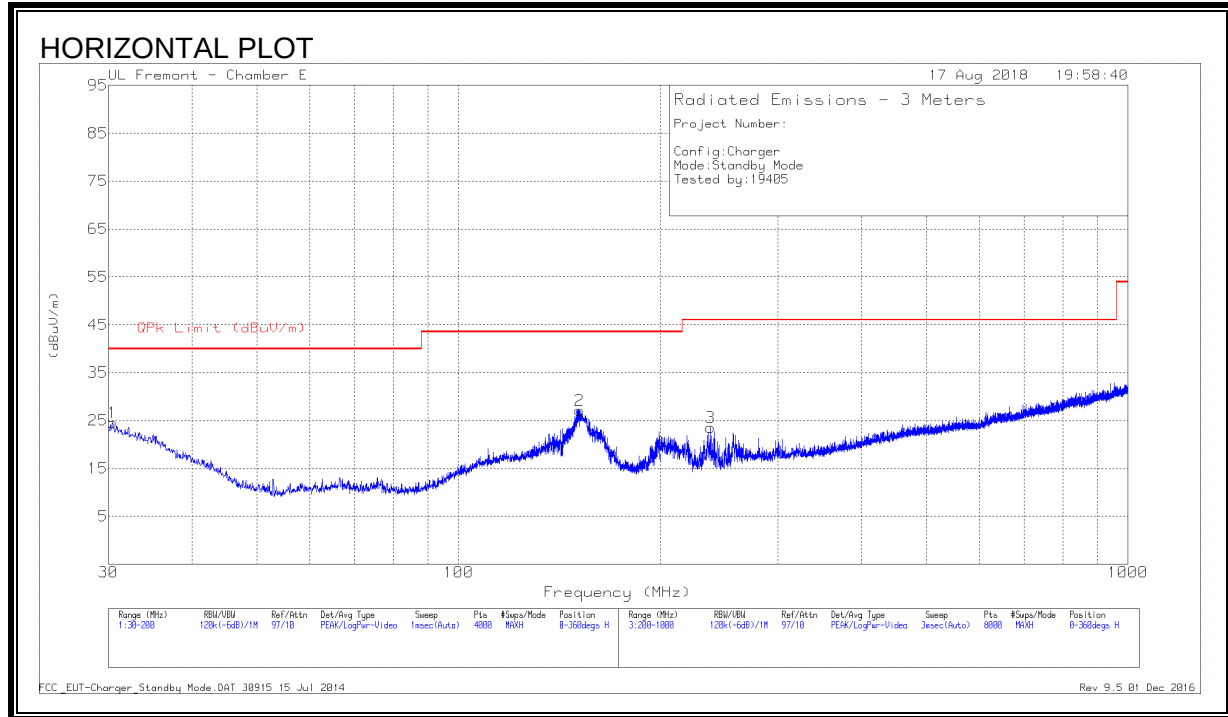
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
1	.12258	34.46	Pk	-40.1	.1	-5.54	46.65	-52.19	0-360
4	.12262	33.59	Pk	-40.1	.1	-6.41	46.64	-53.05	0-360
2	.32591	41.23	Pk	-40.5	.1	.83	30.41	-29.58	0-360
5	.32674	40.63	Pk	-40.5	.1	.23	30.38	-30.15	0-360
6	.93108	31.53	Pk	-40.3	.2	-8.57	18.93	-27.5	0-360
3	1.8322	25.78	Pk	-40.1	.2	-14.12	11.53	-25.65	0-360

Pk - Peak detector

8.2.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

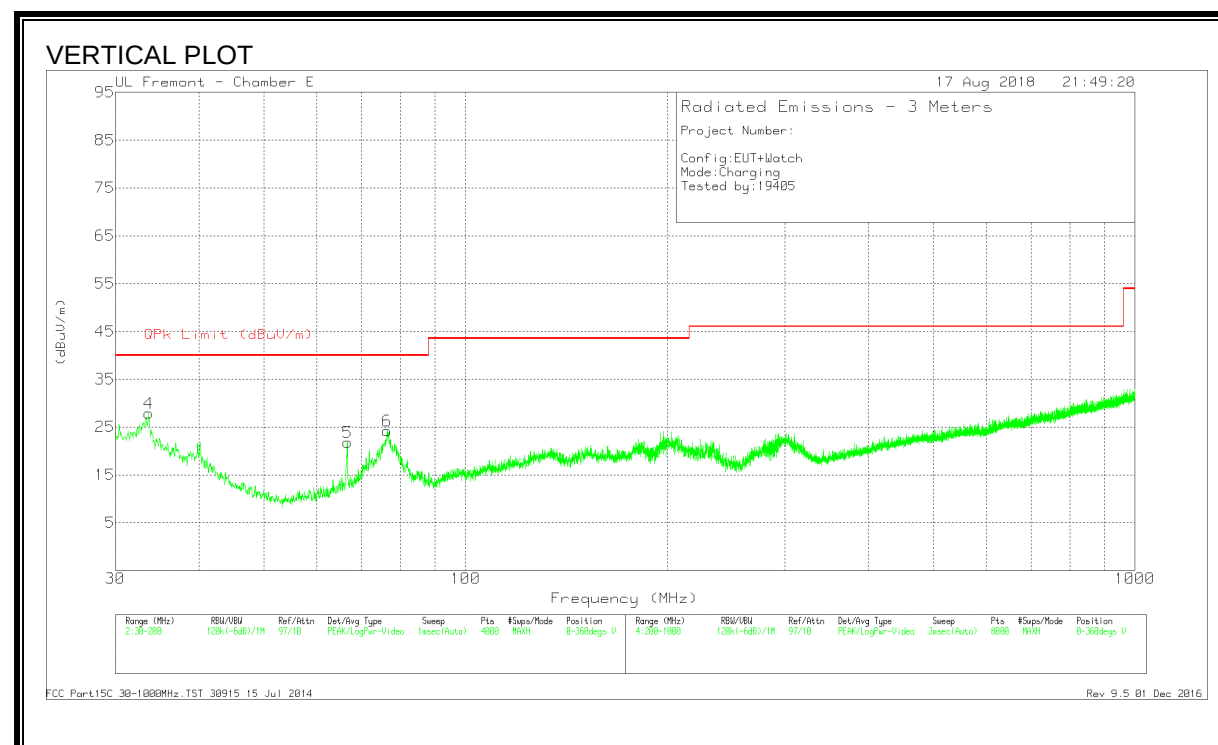
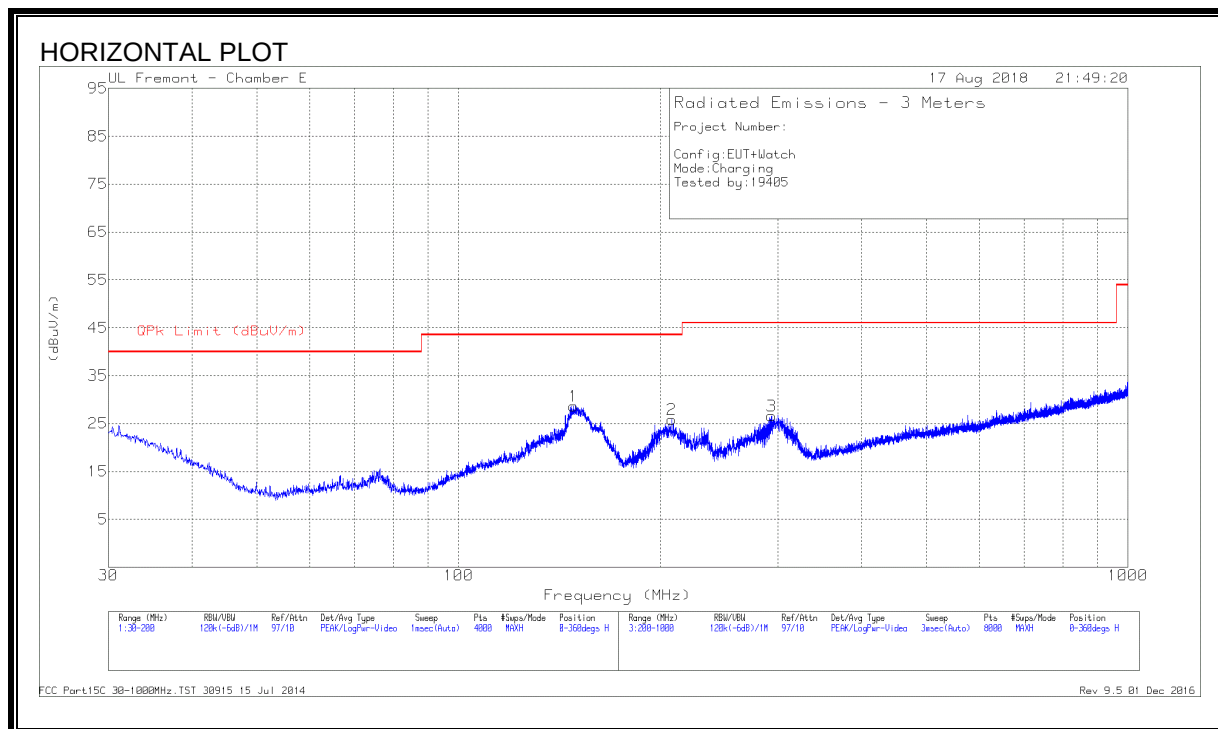
STANDBY CONFIGURATION



DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.4251	29.59	Pk	26.6	-31.6	24.59	40	-15.41	0-360	400	H
4	66.4319	36.87	Pk	14.2	-31.1	19.97	40	-20.03	0-360	100	V
5	76.6771	39.08	Pk	13.5	-31	21.58	40	-18.42	0-360	100	V
2	151.794	38.93	Pk	18.5	-30.3	27.13	43.52	-16.39	0-360	199	H
6	203.3004	34.88	Pk	17.2	-29.9	22.18	43.52	-21.34	0-360	100	V
3	238.0049	35.95	Pk	17.3	-29.7	23.55	46.02	-22.47	0-360	100	H

Pk - Peak detector



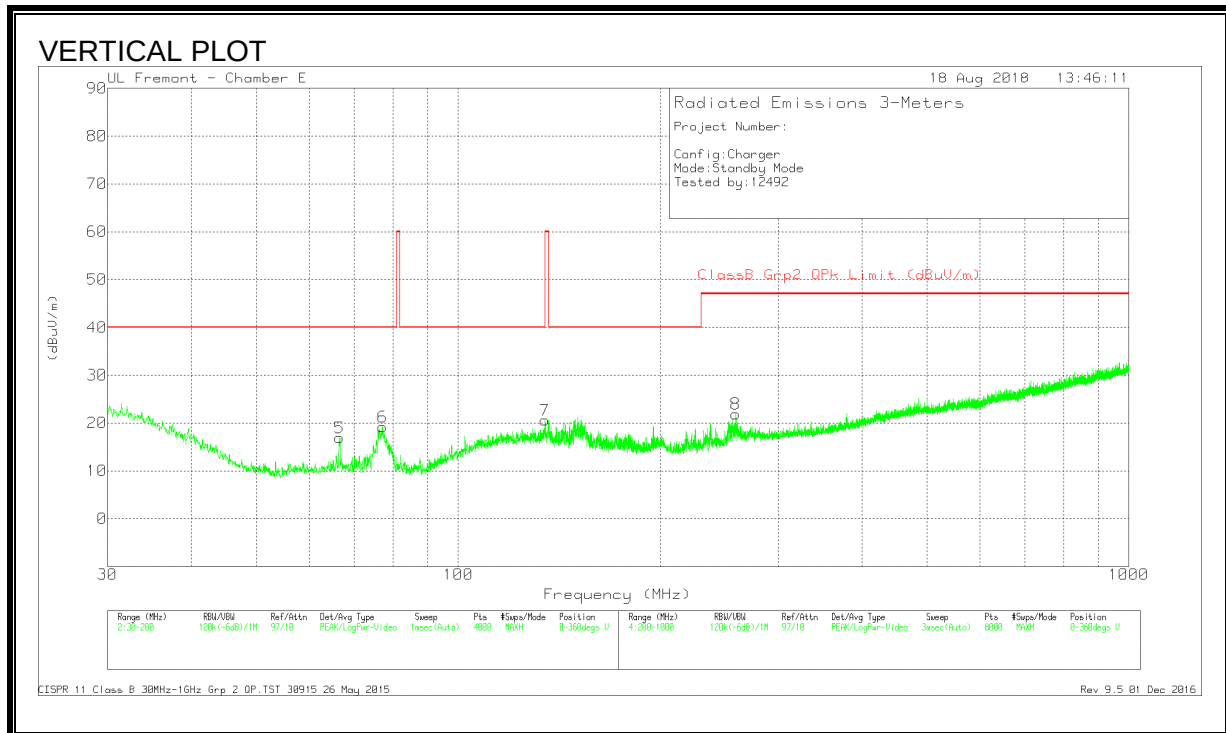
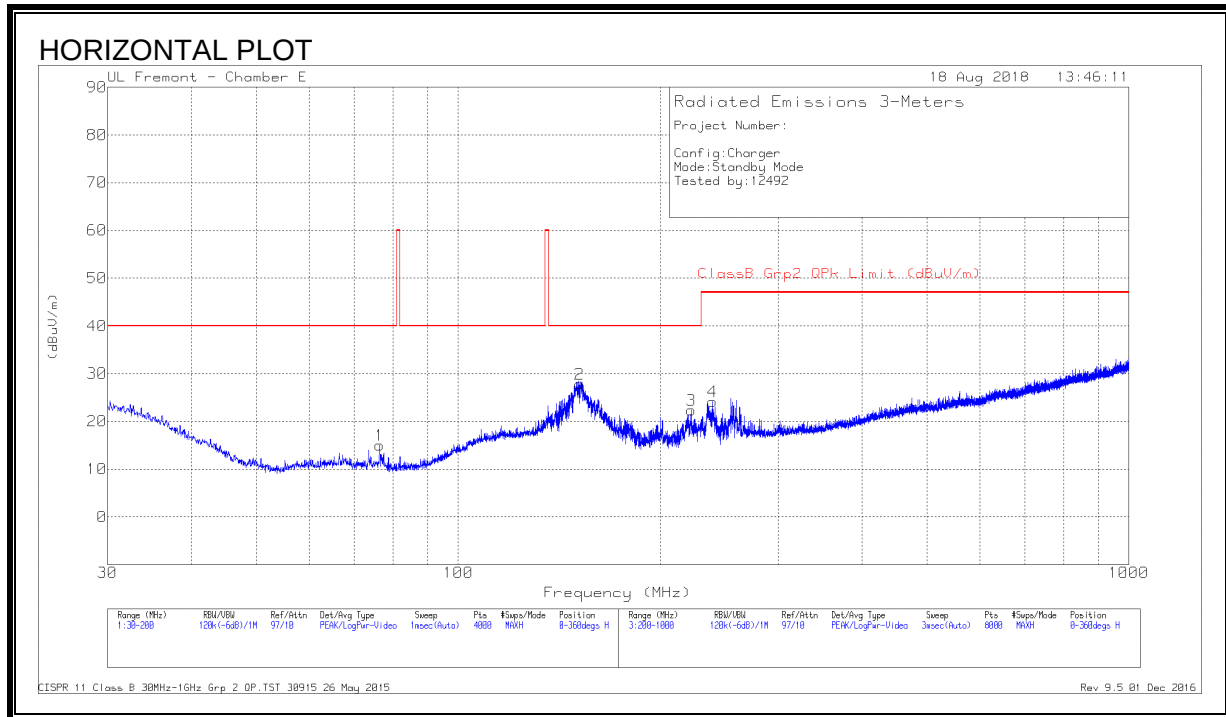
DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	33.6134	34.93	Pk	24.4	-31.5	27.83	40	-12.17	0-360	100	V
5	66.6445	38.7	Pk	14.2	-31.1	21.8	40	-18.2	0-360	100	V
6	76.422	41.58	Pk	13.6	-31	24.18	40	-15.82	0-360	100	V
1	148.5207	40.37	Pk	18.7	-30.4	28.67	43.52	-14.85	0-360	200	H
2	208.2011	39.27	Pk	16.4	-29.8	25.87	43.52	-17.65	0-360	100	H
3	293.5122	36.57	Pk	19.2	-29.2	26.57	46.02	-19.45	0-360	100	H

Pk - Peak detector

8.2.4. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz

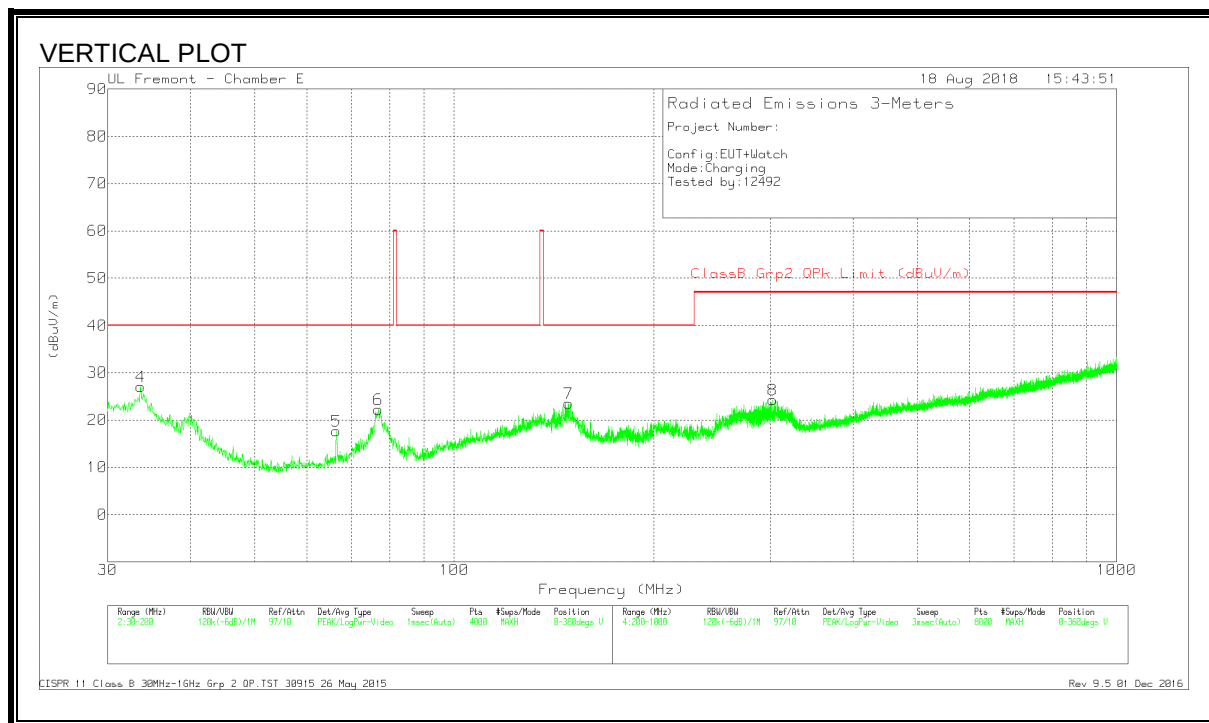
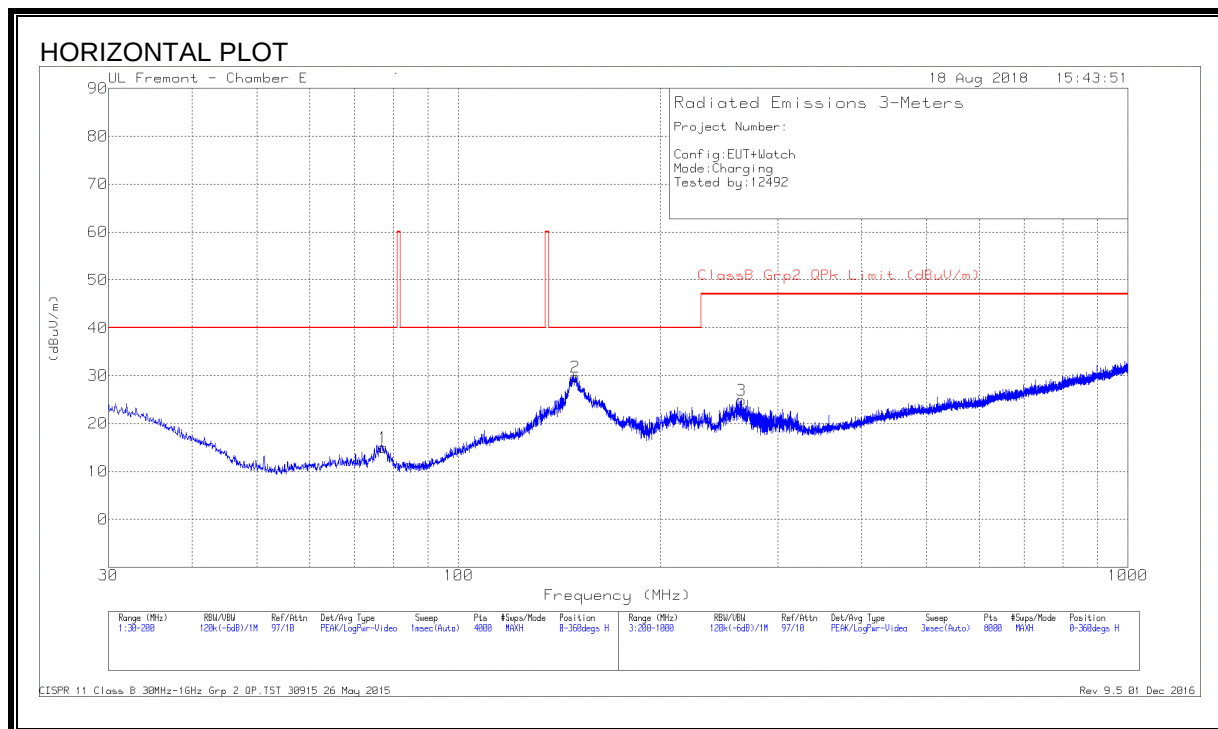
STANDBY CONFIGURATION



DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	66.602	33.83	Pk	14.2	-31.1	16.93	40	-23.07	0-360	100	V
1	76.3795	32.43	Pk	13.6	-31	15.03	40	-24.97	0-360	199	H
6	77.1022	36.69	Pk	13.5	-31	19.19	40	-20.81	0-360	100	V
7	134.7896	31.43	Pk	19.7	-30.5	20.63	60	-39.37	0-360	100	V
2	151.7728	39.66	Pk	18.5	-30.3	27.86	40	-12.14	0-360	99	H
3	222.6029	35.59	Pk	16.6	-29.8	22.39	40	-17.61	0-360	100	H
4	239.7052	36.55	Pk	17.3	-29.7	24.15	47	-22.85	0-360	100	H
8	259.5077	33.43	Pk	18	-29.5	21.93	47	-25.07	0-360	100	V

Pk - Peak detector



DATA

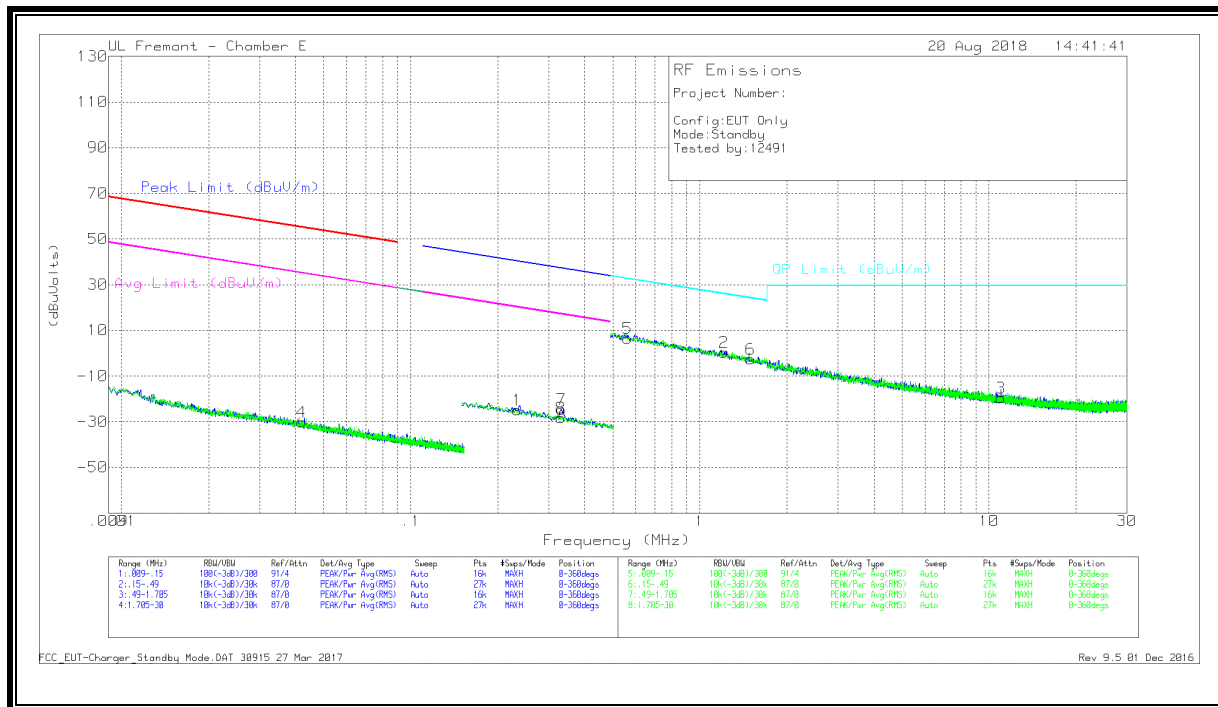
Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	33.6134	34.18	Pk	24.4	-31.5	27.08	40	-12.92	0-360	100	V
5	66.3894	34.63	Pk	14.2	-31.1	17.73	40	-22.27	0-360	100	V
6	76.8896	39.8	Pk	13.5	-31	22.3	40	-17.7	0-360	100	V
1	77.1447	32.52	Pk	13.5	-31	15.02	40	-24.98	0-360	400	H
7	148.7332	35.22	Pk	18.7	-30.4	23.52	40	-16.48	0-360	100	V
2	149.3284	41.38	Pk	18.7	-30.3	29.78	40	-10.22	0-360	200	H
3	264.5084	35.72	Pk	18.7	-29.5	24.92	47	-22.08	0-360	100	H
8	302.6133	34.24	Pk	19.4	-29.3	24.34	47	-22.66	0-360	100	V

Pk - Peak detector

8.3. STAINLESS STEEL WITH 1M CABLE

8.3.1. FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

STANDBY CONFIGURATION

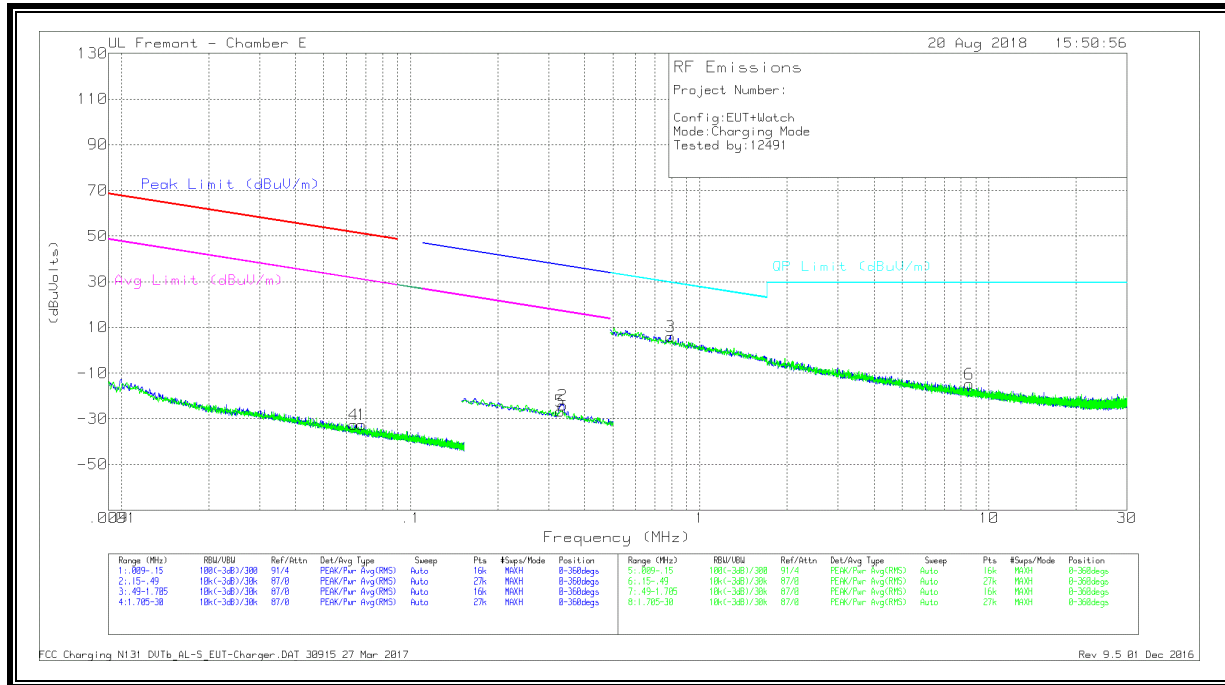


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	.04189	37.01	Pk	12.6	.1	-80	-30.29	55.14	-85.43	35.14	-65.43	0-360
1	.23369	44.31	Pk	10.7	.1	-80	-24.89	40.24	-65.13	20.24	-45.13	0-360
8	.33129	40.87	Pk	10.7	.1	-80	-28.33	37.21	-65.54	17.21	-45.54	0-360
7	.33185	44.54	Pk	10.7	.1	-80	-24.66	37.19	-61.85	17.19	-41.85	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
5	.56307	35.72	Pk	10.6	.2	-40	6.52	32.6	-26.08	0-360
2	1.21272	29.67	Pk	10.6	.2	-40	.47	25.95	-25.48	0-360
6	1.50072	26.49	Pk	10.7	.2	-40	-2.61	24.11	-26.72	0-360
3	10.9819	9.54	Pk	10.4	.6	-40	-19.46	29.5	-48.96	0-360

Pk - Peak detector



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	.06346	35.73	Pk	11.6	.1	-80	-32.57	51.53	-84.1	31.53	-64.1	-	-	-	-	0-360
1	.06757	35.71	Pk	11.5	.1	-80	-32.69	50.99	-83.68	30.99	-63.68	-	-	-	-	0-360
5	.32908	42.6	Pk	10.7	.1	-80	-26.6	-	-	-	-	37.26	-63.86	17.26	-43.86	0-360
2	.33563	45.22	Pk	10.7	.1	-80	-23.98	-	-	-	-	37.09	-61.07	17.09	-41.07	0-360

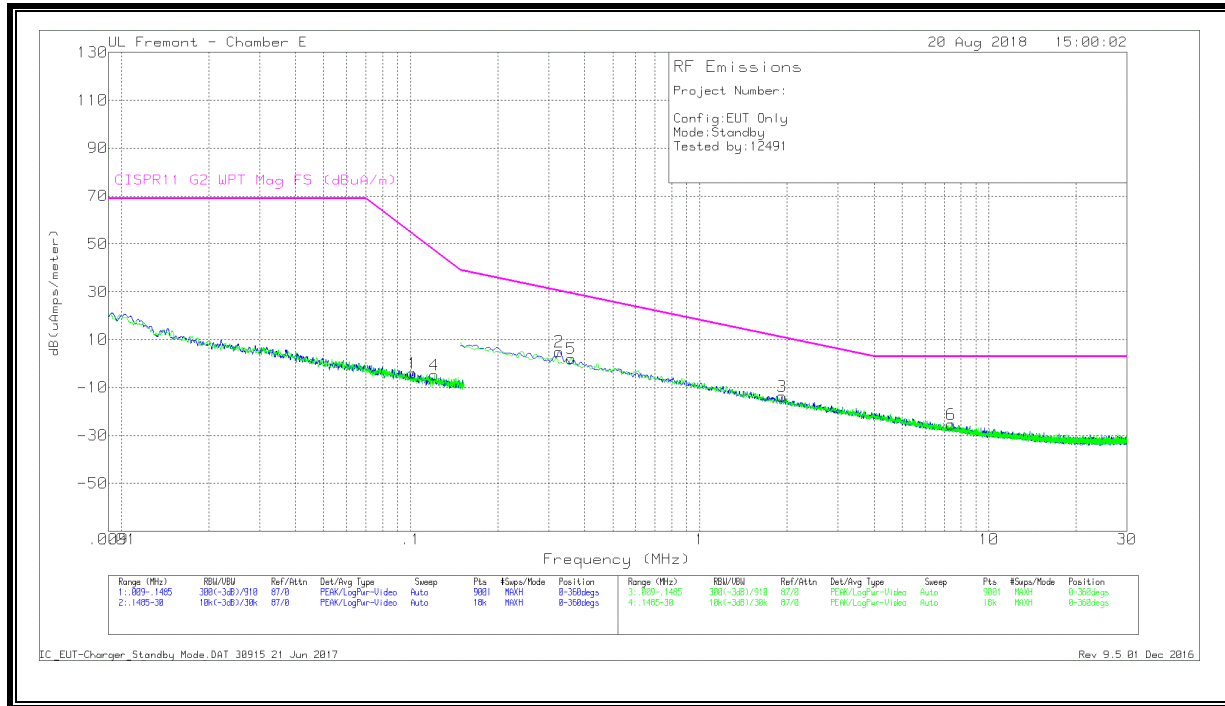
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.79172	35.07	Pk	10.6	.2	-40	5.87	29.64	-23.77	0-360
6	8.54844	14.21	Pk	10.6	.5	-40	-14.69	29.5	-44.19	0-360

Pk - Peak detector

8.3.2. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

STANDBY CONFIGURATION

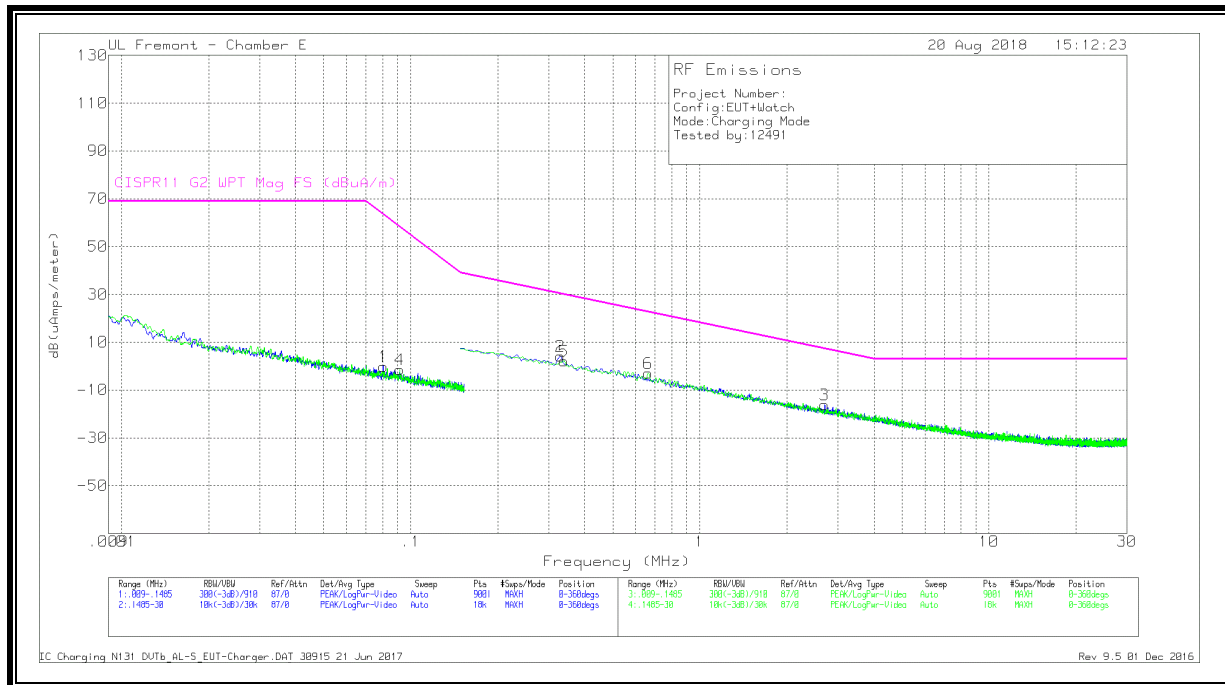


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
1	*.10131	35.99	Pk	-40	.1	-3.91	54.25	-58.16	0-360
4	.1206	35.29	Pk	-40.1	.1	-4.71	47.3	-52.01	0-360
2	.32591	45.43	Pk	-40.5	.1	5.03	30.41	-25.38	0-360
5	.35907	42.67	Pk	-40.6	.1	2.17	29.35	-27.18	0-360
3	1.92422	26.13	Pk	-40.1	.3	-13.67	11	-24.67	0-360
6	7.40557	14.56	Pk	-40.4	.5	-25.34	3	-28.34	0-360

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

OPERATING WITH WATCH



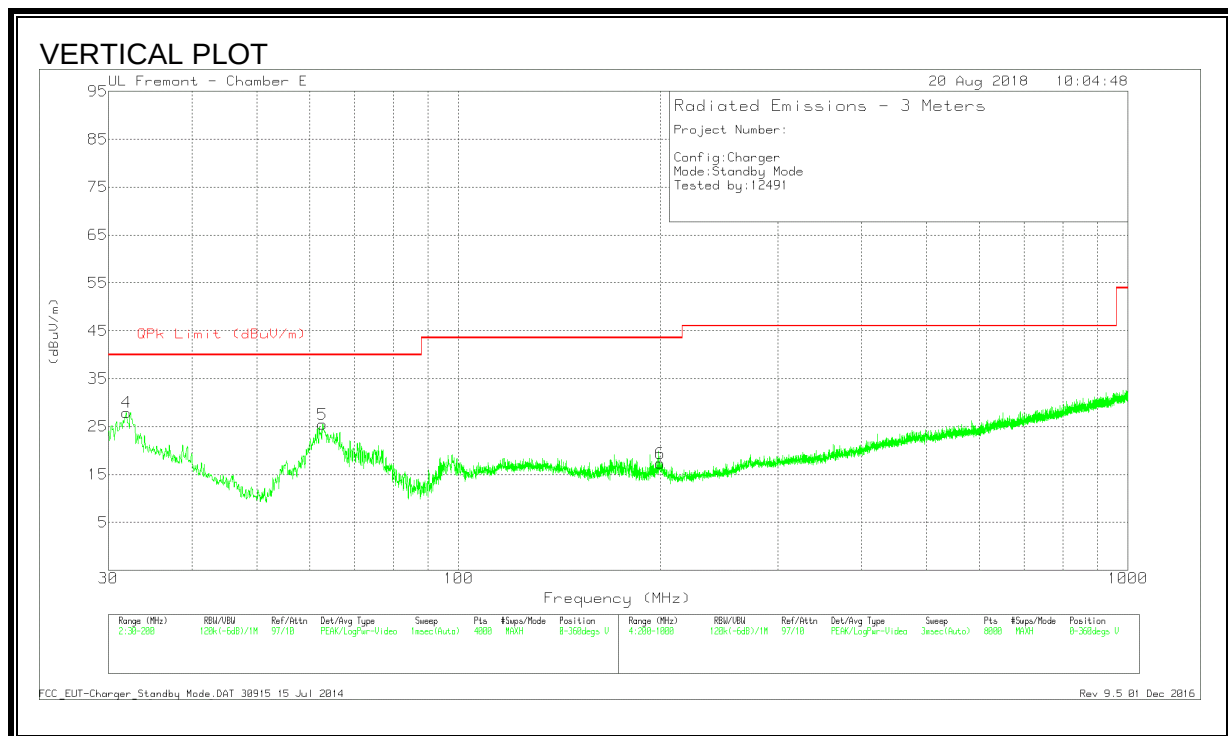
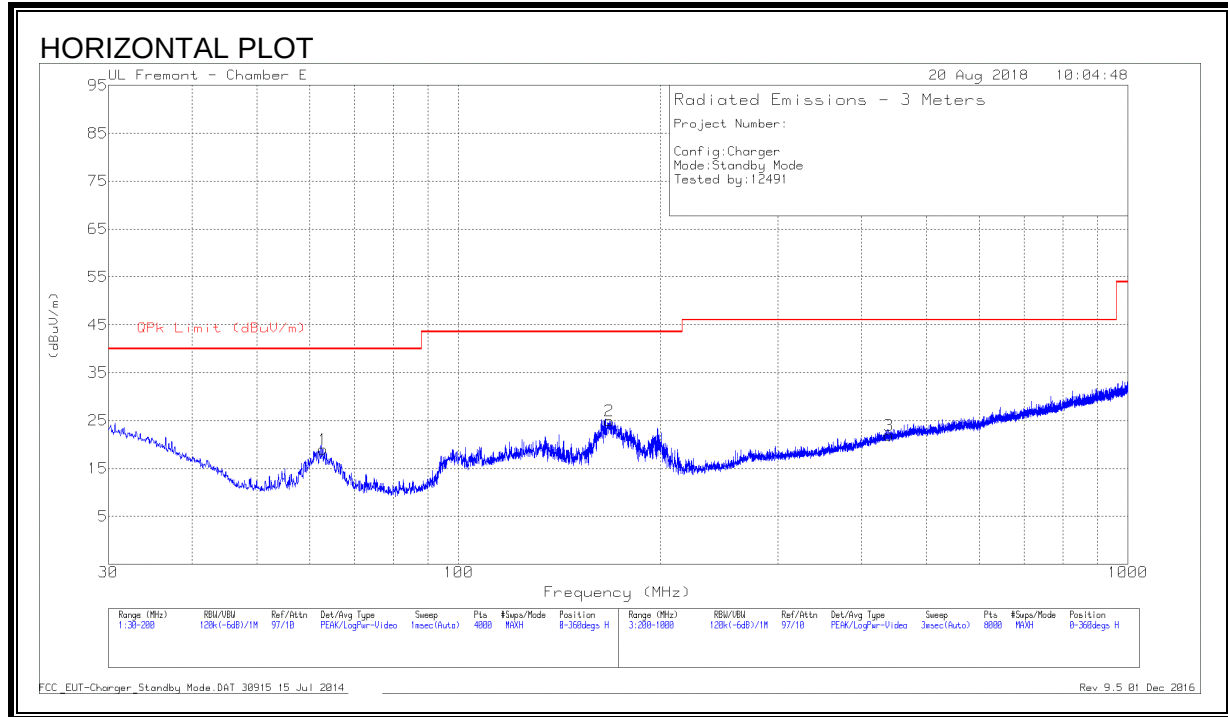
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cables (dB)	Corrected Reading dB(uAmps/meter)	CISPR11 G2 WPT Mag FS (dBuA/m)	Margin (dB)	Azimuth (Degs)
4	* .0917	37.99	Pk	-39.6	.1	-1.51	58.23	-59.74	0-360
1	.08036	39.33	Pk	-39.5	.1	-.07	63.49	-63.56	0-360
2	.32922	44.51	Pk	-40.5	.1	4.11	30.3	-26.19	0-360
5	.33834	42.63	Pk	-40.5	.1	2.23	30	-27.77	0-360
6	.66331	37.26	Pk	-40.4	.2	-2.94	22.64	-25.58	0-360
3	2.70182	23.65	Pk	-40.1	.3	-16.15	7.29	-23.44	0-360

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

8.3.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

STANDBY CONFIGURATION

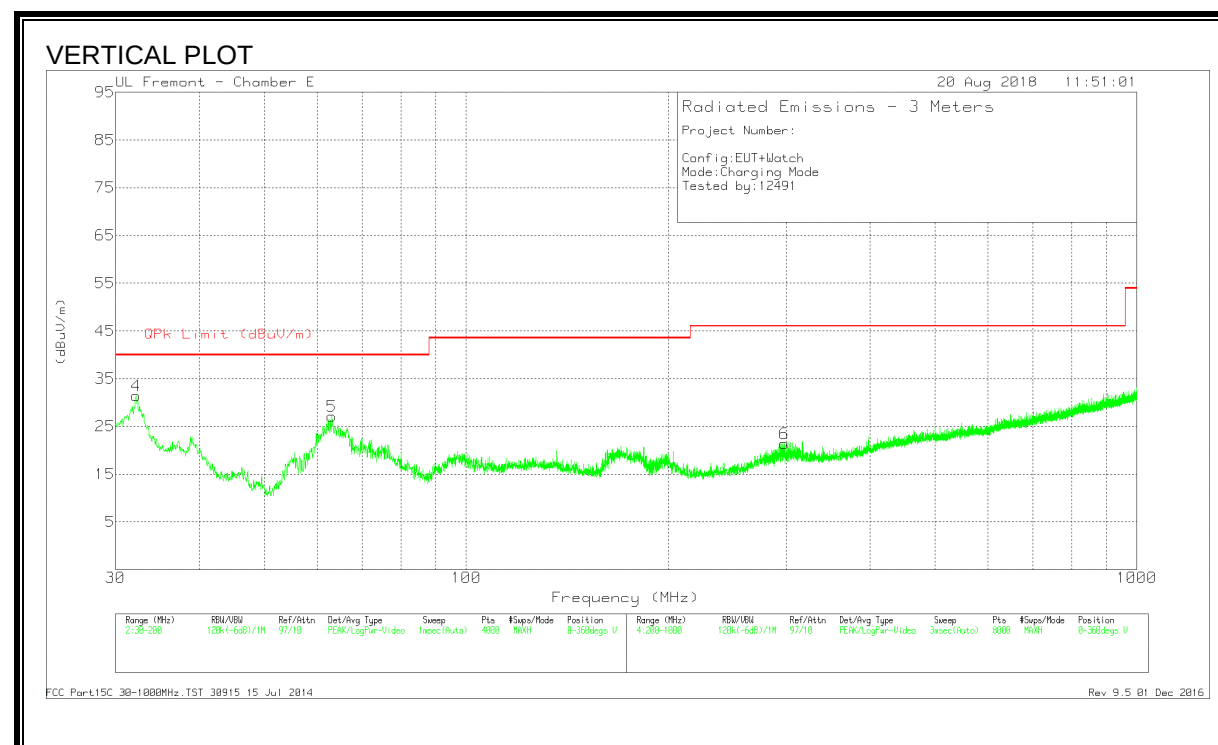
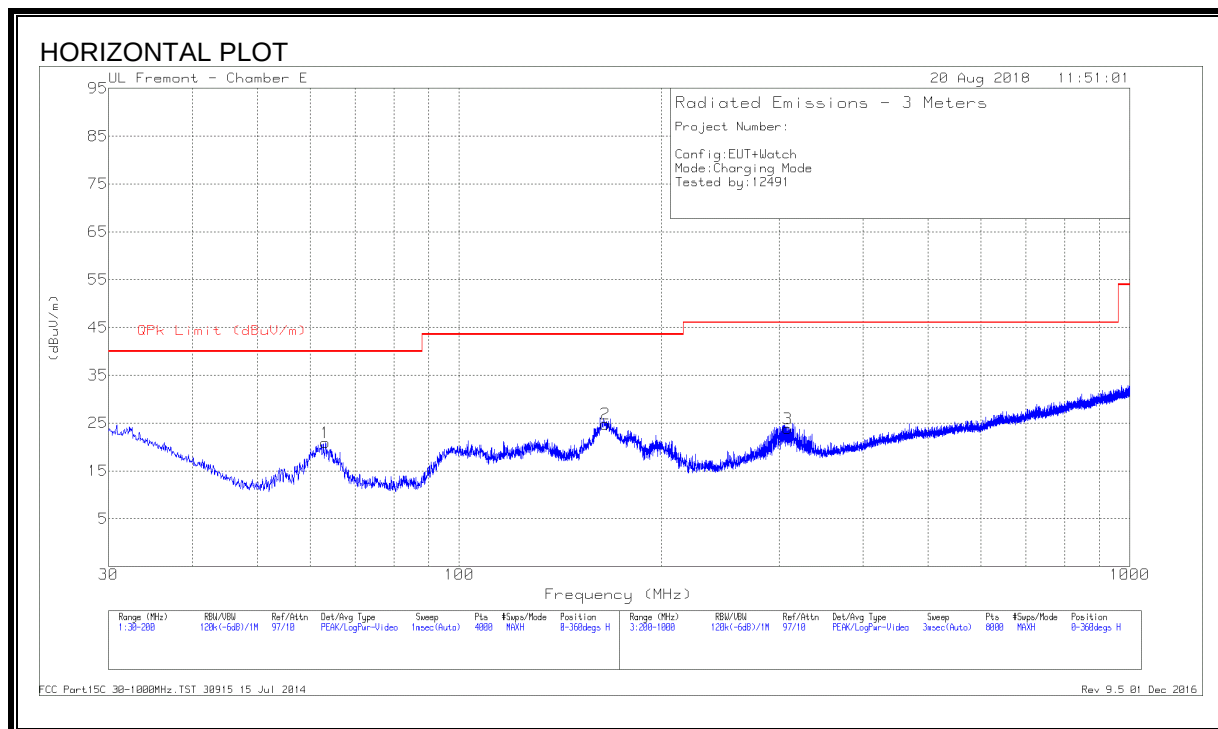


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 168.0757	37.12	Pk	18	-30.2	24.92	43.52	-18.6	0-360	200	H
4	31.913	33.75	Pk	25.8	-31.6	27.95	40	-12.05	0-360	100	V
5	62.691	42.43	Pk	14.2	-31.1	25.53	40	-14.47	0-360	100	V
1	62.7122	35.85	Pk	14.2	-31.1	18.95	40	-21.05	0-360	200	H
6	200	28.91	Pk	18.3	-29.9	17.31	43.52	-26.21	0-360	100	V
3	439.6311	27.88	Pk	22.5	-28.5	21.88	46.02	-24.14	0-360	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector



DATA

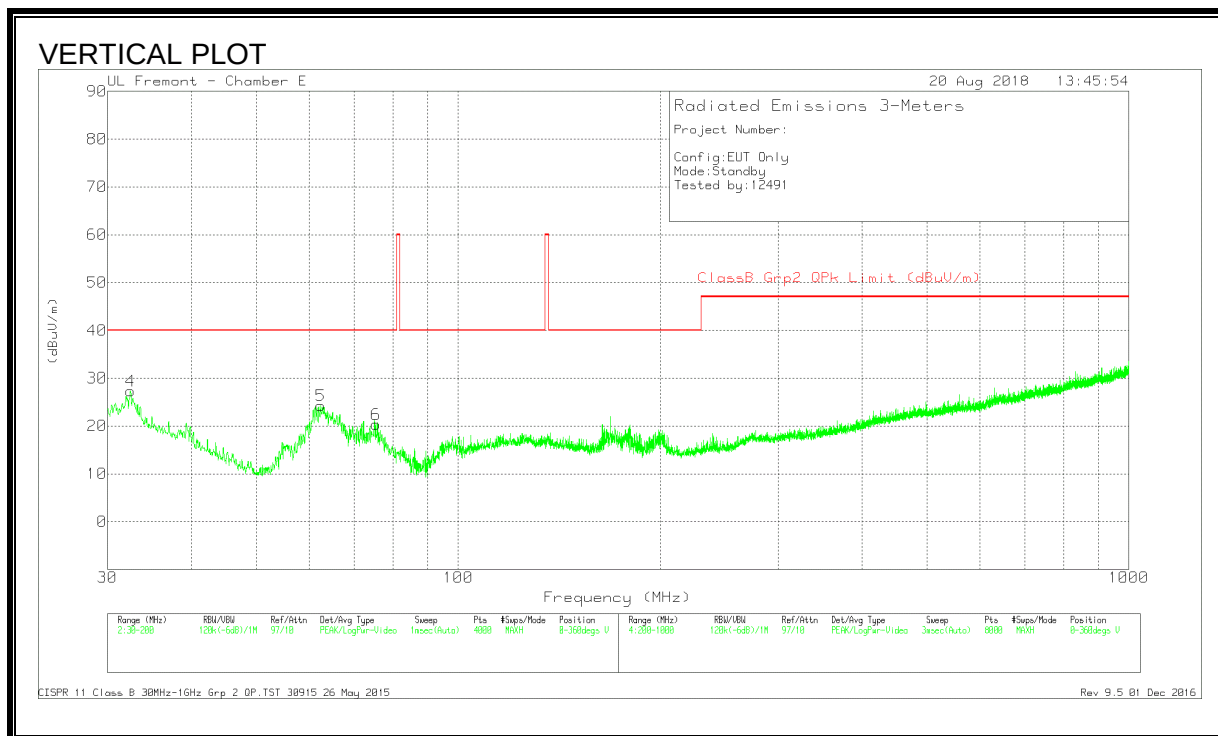
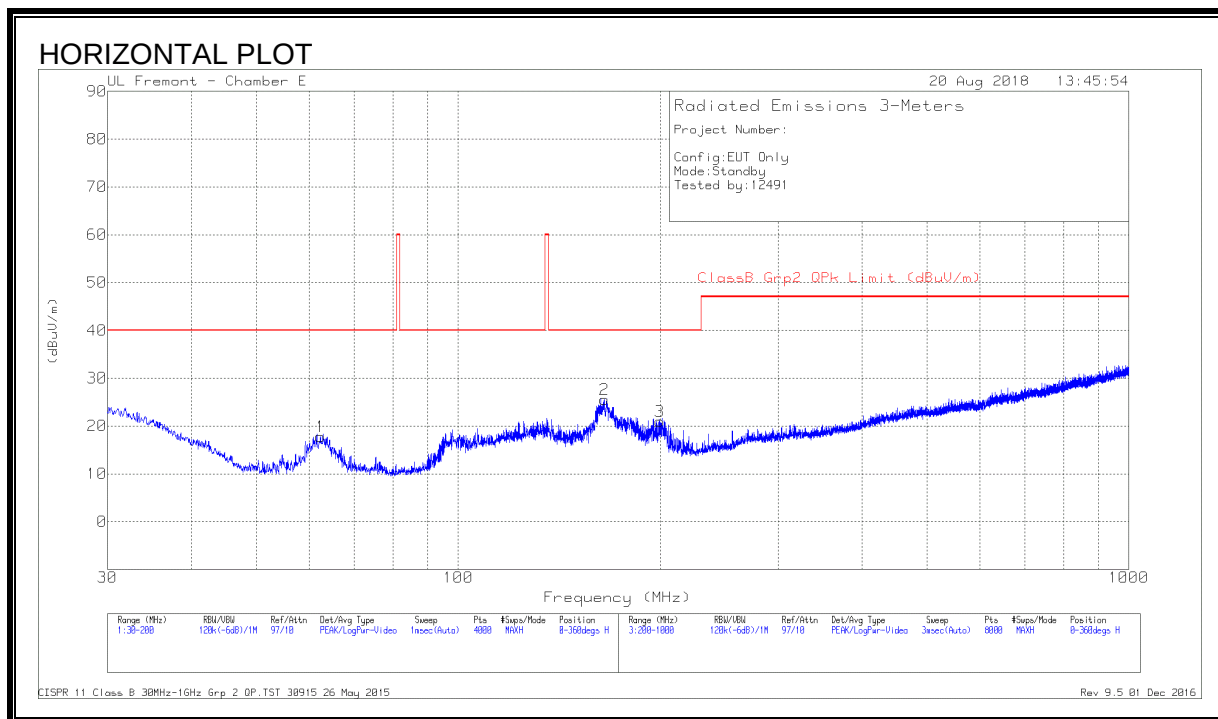
Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 165.185	36.88	Pk	18.1	-30.2	24.78	43.52	-18.74	0-360	200	H
4	32.1681	37.55	Pk	25.5	-31.6	31.45	40	-8.55	0-360	100	V
5	63.031	44.07	Pk	14.2	-31.2	27.07	40	-12.93	0-360	100	V
1	63.2011	37.78	Pk	14.2	-31.1	20.88	40	-19.12	0-360	200	H
6	298.4128	31.36	Pk	19.2	-29.2	21.36	46.02	-24.66	0-360	100	V
3	308.8141	33.37	Pk	19.6	-29.1	23.87	46.02	-22.15	0-360	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

8.3.4. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz

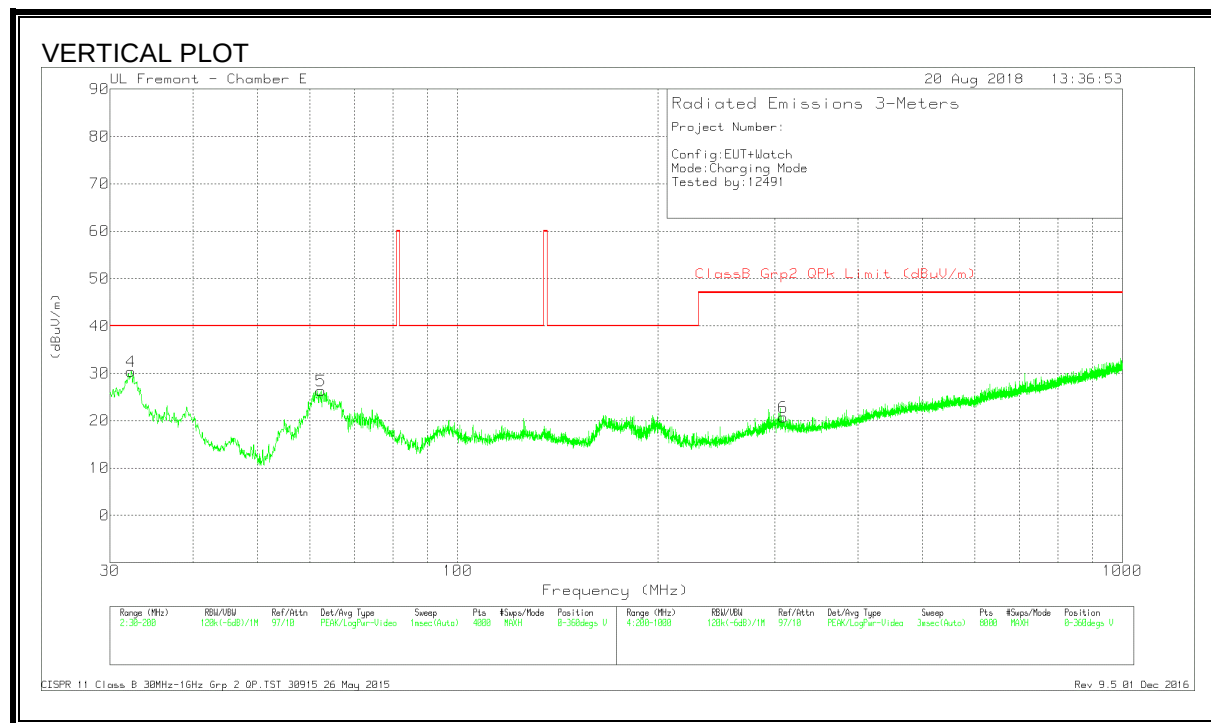
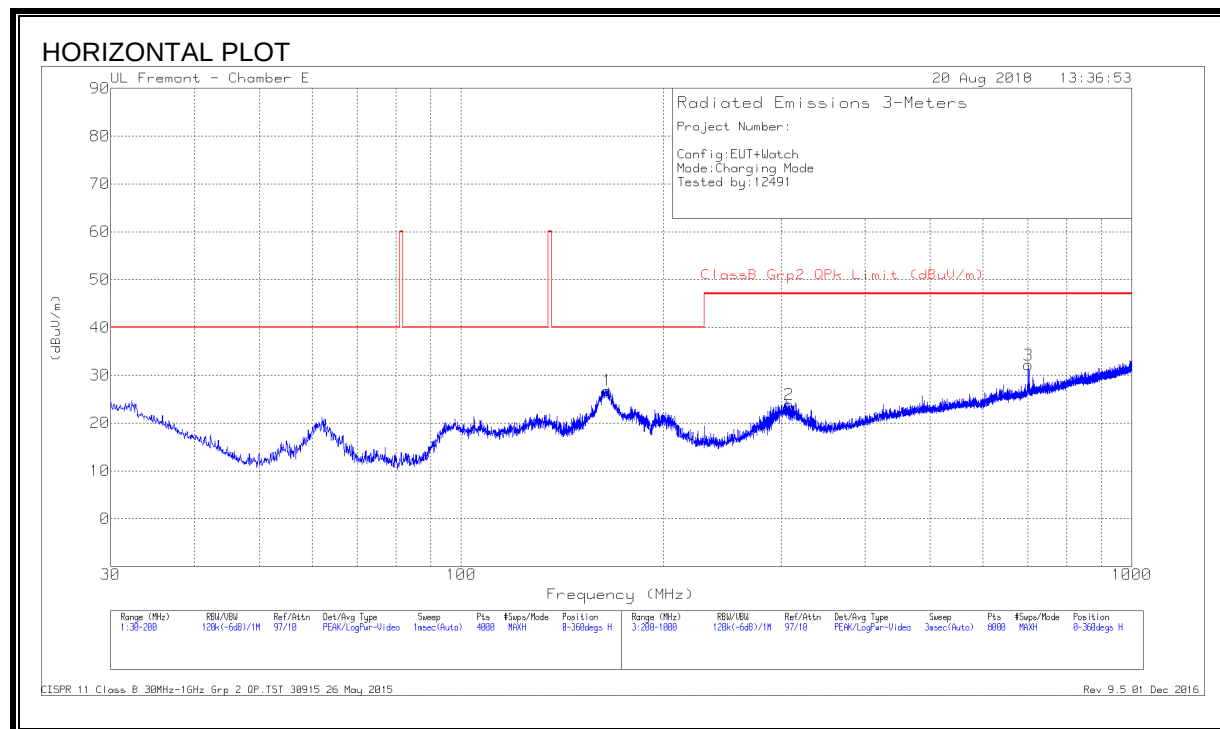
STANDBY CONFIGURATION



DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	32.4656	33.58	Pk	25.3	-31.6	27.28	40	-12.72	0-360	100	V
1	62.3084	34.85	Pk	14.2	-31.2	17.85	40	-22.15	0-360	400	H
5	62.3509	41.25	Pk	14.2	-31.2	24.25	40	-15.75	0-360	100	V
6	75.3592	37.66	Pk	13.7	-31	20.36	40	-19.64	0-360	100	V
2	165.0574	37.61	Pk	18.1	-30.2	25.51	40	-14.49	0-360	199	H
3	199.6189	32.6	Pk	18.3	-29.9	21	40	-19	0-360	199	H

Pk - Peak detector



DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	AF T899 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	ClassB Grp2 QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	32.2956	36.6	Pk	25.4	-31.6	30.4	40	-9.6	0-360	100	V
5	62.3084	43.37	Pk	14.2	-31.2	26.37	40	-13.63	0-360	100	V
1	165.27	38.98	Pk	18.1	-30.2	26.88	40	-13.12	0-360	200	H
2	308.1141	33.5	Pk	19.5	-29.1	23.9	47	-23.1	0-360	100	H
6	308.6141	30.19	Pk	19.6	-29.1	20.69	47	-26.31	0-360	100	V
3	700.8651	33.08	Pk	26.1	-27	32.18	47	-14.82	0-360	200	H

Pk - Peak detector

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	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 C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

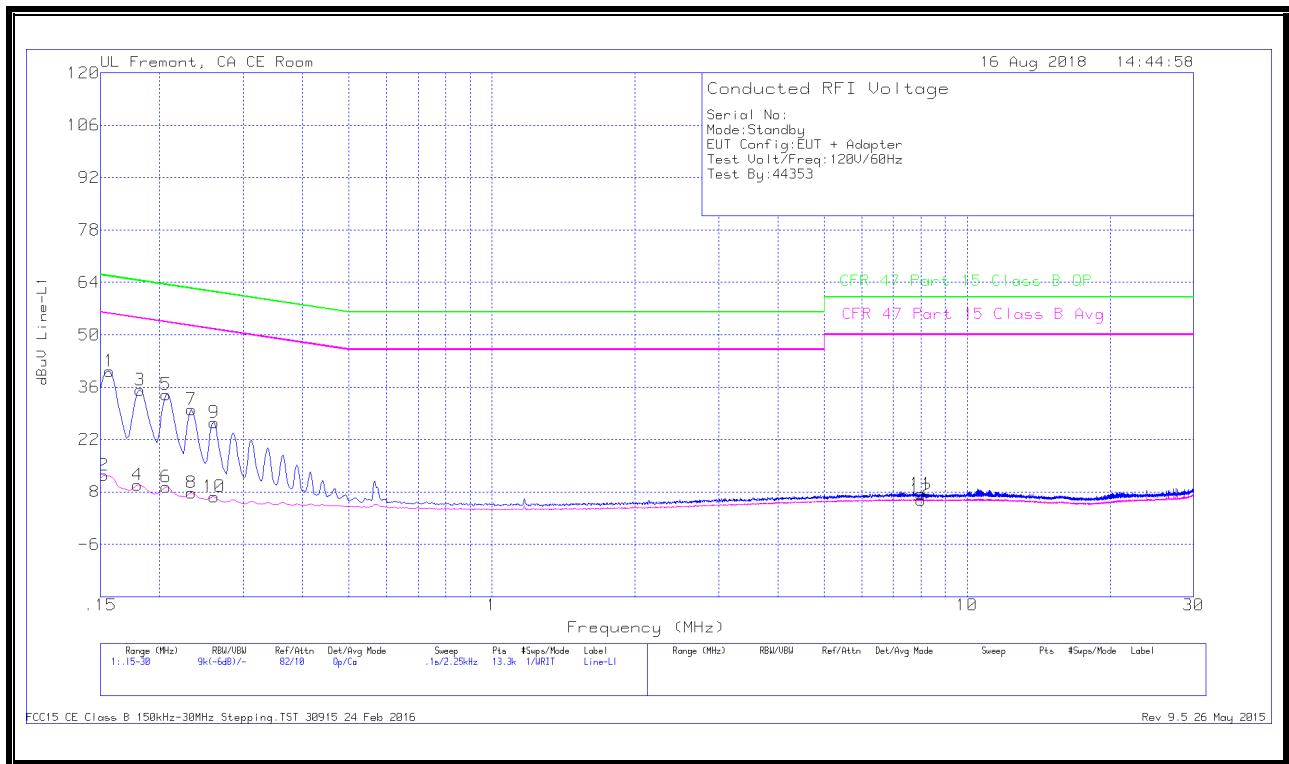
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

9.1. STAINLESS STEEL WITH 0.3M CABLE

9.1.1. STANDBY MODE POWERED BY AC/DC ADAPTER

LINE 1 RESULTS

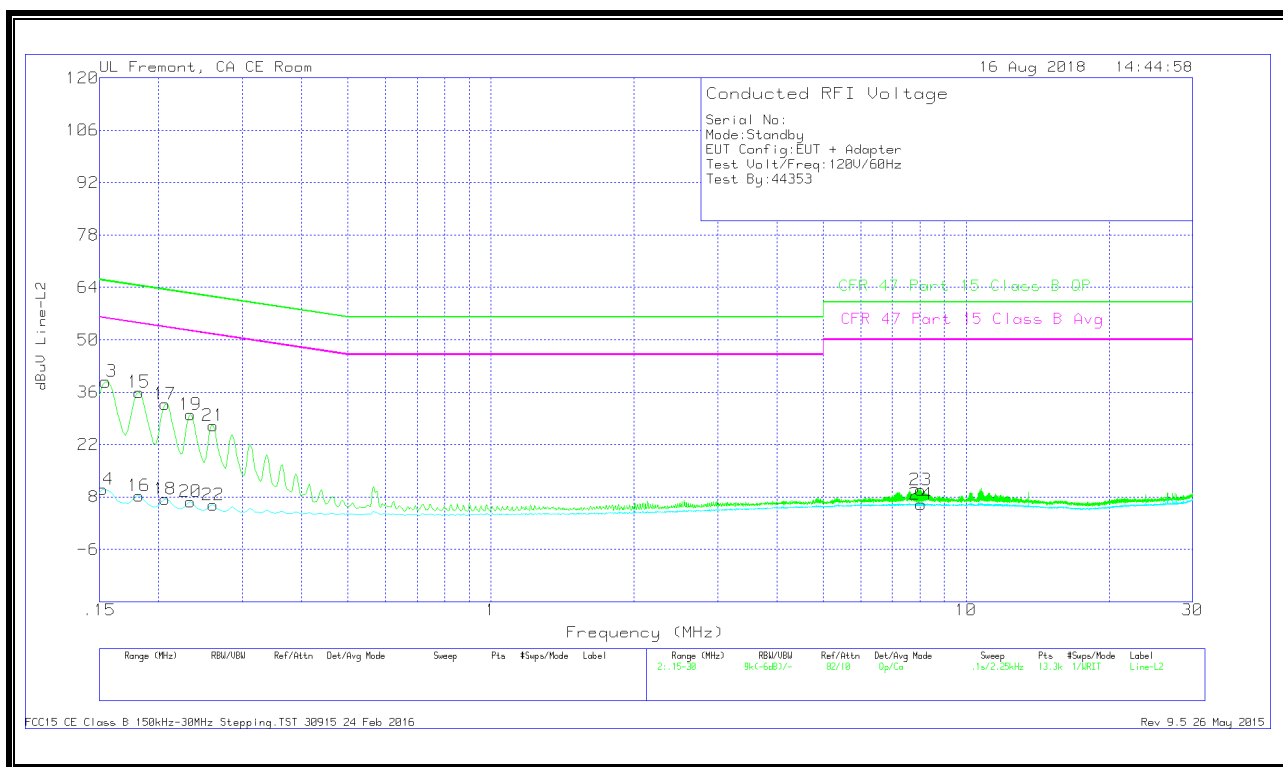


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	30.05	Qp	.1	0	10.1	40.25	65.63	-25.38	-	-
2	.15225	2.33	Ca	.1	0	10.1	12.53	-	-	55.88	-43.35
3	.1815	25.11	Qp	0	0	10.1	35.21	64.42	-29.21	-	-
4	.17925	-.3	Ca	0	0	10.1	9.8	-	-	54.52	-44.72
5	.20625	23.92	Qp	0	0	10.1	34.02	63.35	-29.33	-	-
6	.20625	-.76	Ca	0	0	10.1	9.34	-	-	53.35	-44.01
7	.23325	19.9	Qp	0	0	10.1	30	62.33	-32.33	-	-
8	.23325	-2.28	Ca	0	0	10.1	7.82	-	-	52.33	-44.51
9	.26025	16.39	Qp	0	0	10.1	26.49	61.42	-34.93	-	-
10	.26025	-3.4	Ca	0	0	10.1	6.7	-	-	51.42	-44.72
11	8.016	-2.95	Qp	0	.2	10.2	7.45	60	-52.55	-	-
12	8.01488	-4.56	Ca	0	.2	10.2	5.84	-	-	50	-44.16

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



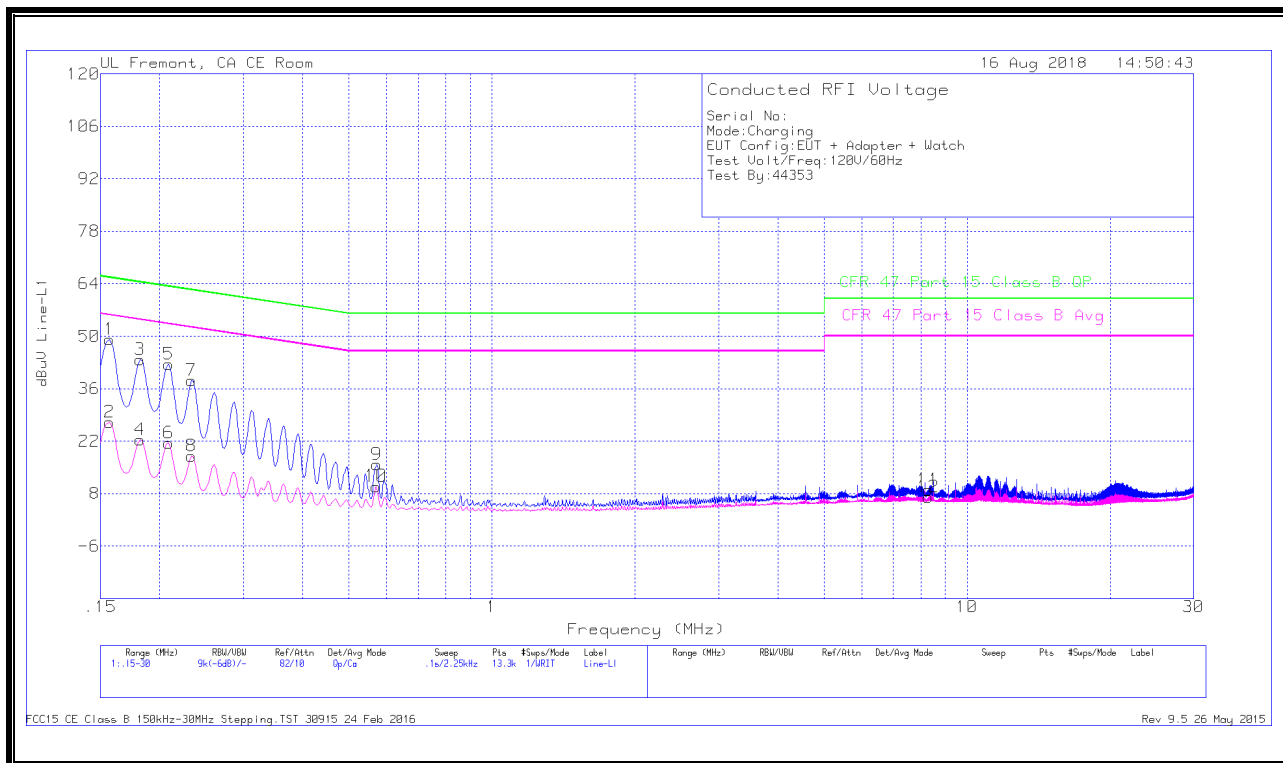
WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1545	28.59	Qp	.1	0	10.1	38.79	65.75	-26.96	-	-
14	.15225	-.24	Ca	.1	0	10.1	9.96	-	-	55.88	-45.92
15	.1815	25.9	Qp	0	0	10.1	36	64.42	-28.42	-	-
16	.1815	-1.78	Ca	0	0	10.1	8.32	-	-	54.42	-46.1
17	.20625	22.76	Qp	0	0	10.1	32.86	63.35	-30.49	-	-
18	.20625	-2.68	Ca	0	0	10.1	7.42	-	-	53.35	-45.93
19	.23325	19.92	Qp	0	0	10.1	30.02	62.33	-32.31	-	-
20	.23325	-3.42	Ca	0	0	10.1	6.68	-	-	52.33	-45.65
21	.26025	16.98	Qp	0	0	10.1	27.08	61.42	-34.34	-	-
22	.26025	-4.3	Ca	0	0	10.1	5.8	-	-	51.42	-45.62
23	8.04075	-.53	Qp	0	.2	10.2	9.87	60	-50.13	-	-
24	8.043	-4.38	Ca	0	.2	10.2	6.02	-	-	50	-43.98

Qp - Quasi-Peak detector
Ca - CISPR average detection

9.1.2. OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER

LINE 1 RESULTS

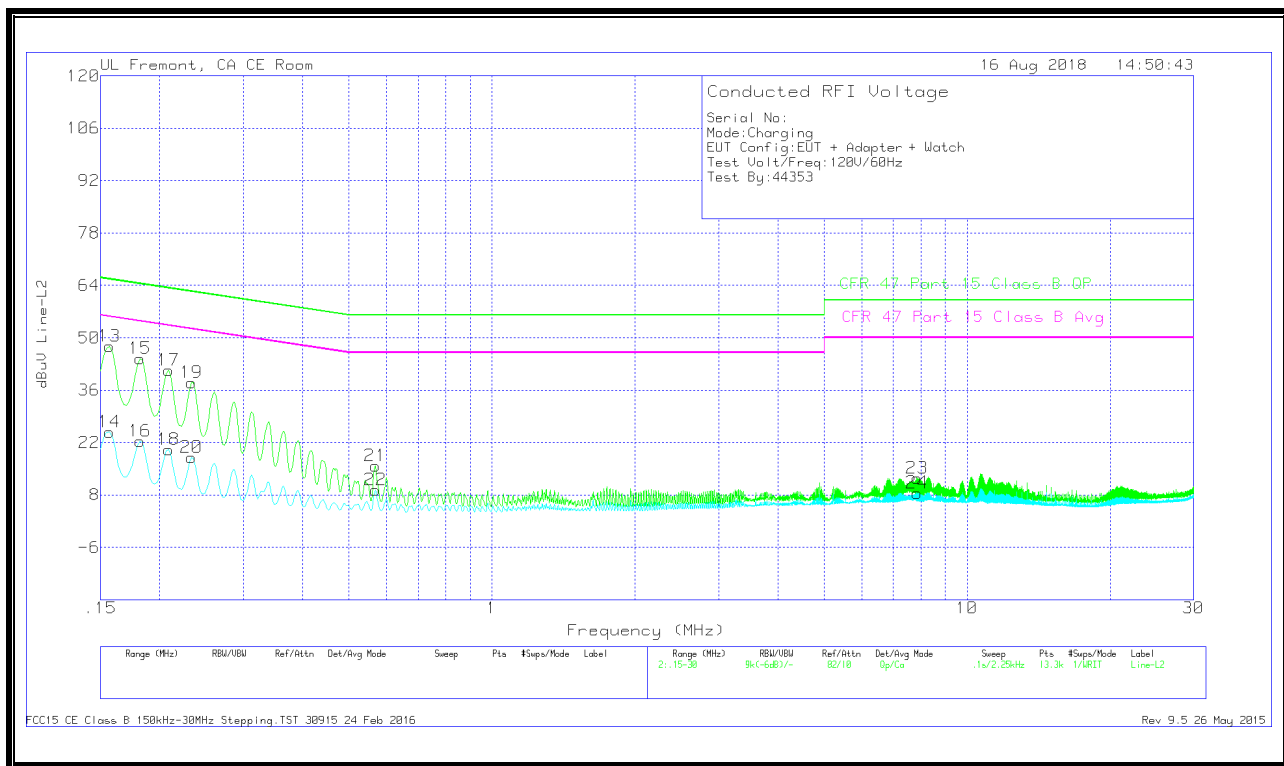


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	38.98	Qp	.1	0	10.1	49.18	65.63	-16.45	-	-
2	.15675	16.9	Ca	.1	0	10.1	27.1	-	-	55.63	-28.53
3	.1815	33.65	Qp	0	0	10.1	43.75	64.42	-20.67	-	-
4	.1815	12.33	Ca	0	0	10.1	22.43	-	-	54.42	-31.99
5	.2085	32.46	Qp	0	0	10.1	42.56	63.26	-20.7	-	-
6	.2085	11.39	Ca	0	0	10.1	21.49	-	-	53.26	-31.77
7	.23325	28.08	Qp	0	0	10.1	38.18	62.33	-24.15	-	-
8	.23325	7.97	Ca	0	0	10.1	18.07	-	-	52.33	-34.26
9	.573	5.73	Qp	0	0	10.1	15.83	56	-40.17	-	-
10	.57075	-1.17	Ca	0	0	10.1	9.93	-	-	46	-36.07
11	8.2815	-1.35	Qp	0	.2	10.2	9.05	60	-50.95	-	-
12	8.2815	-3.36	Ca	0	.2	10.2	7.04	-	-	50	-42.96

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



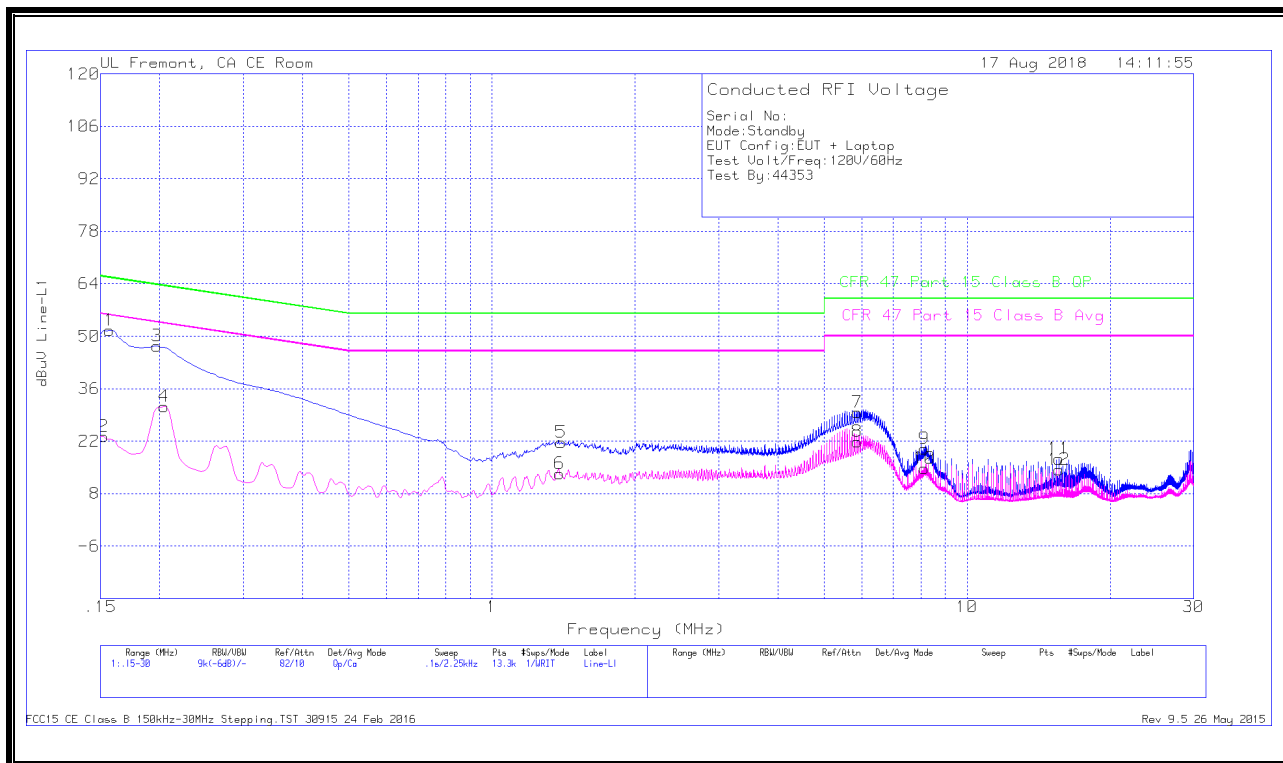
WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.15675	37.47	Qp	.1	0	10.1	47.67	65.63	-17.96	-	-
14	.15675	14.67	Ca	.1	0	10.1	24.87	-	-	55.63	-30.76
15	.1815	34.32	Qp	0	0	10.1	44.42	64.42	-20	-	-
16	.1815	12.31	Ca	0	0	10.1	22.41	-	-	54.42	-32.01
17	.2085	31.19	Qp	0	0	10.1	41.29	63.26	-21.97	-	-
18	.2085	10.02	Ca	0	0	10.1	20.12	-	-	53.26	-33.14
19	.23325	27.98	Qp	0	0	10.1	38.08	62.33	-24.25	-	-
20	.23325	7.98	Ca	0	0	10.1	18.08	-	-	52.33	-34.25
21	.5685	5.68	Qp	0	0	10.1	15.78	56	-40.22	-	-
22	.5685	-7	Ca	0	0	10.1	9.4	-	-	46	-36.6
23	7.86075	2.07	Qp	0	.2	10.2	12.47	60	-47.53	-	-
24	7.86075	-1.86	Ca	0	.2	10.2	8.54	-	-	50	-41.46

Qp - Quasi-Peak detector
Ca - CISPR average detection

9.1.3. STANDBY MODE POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

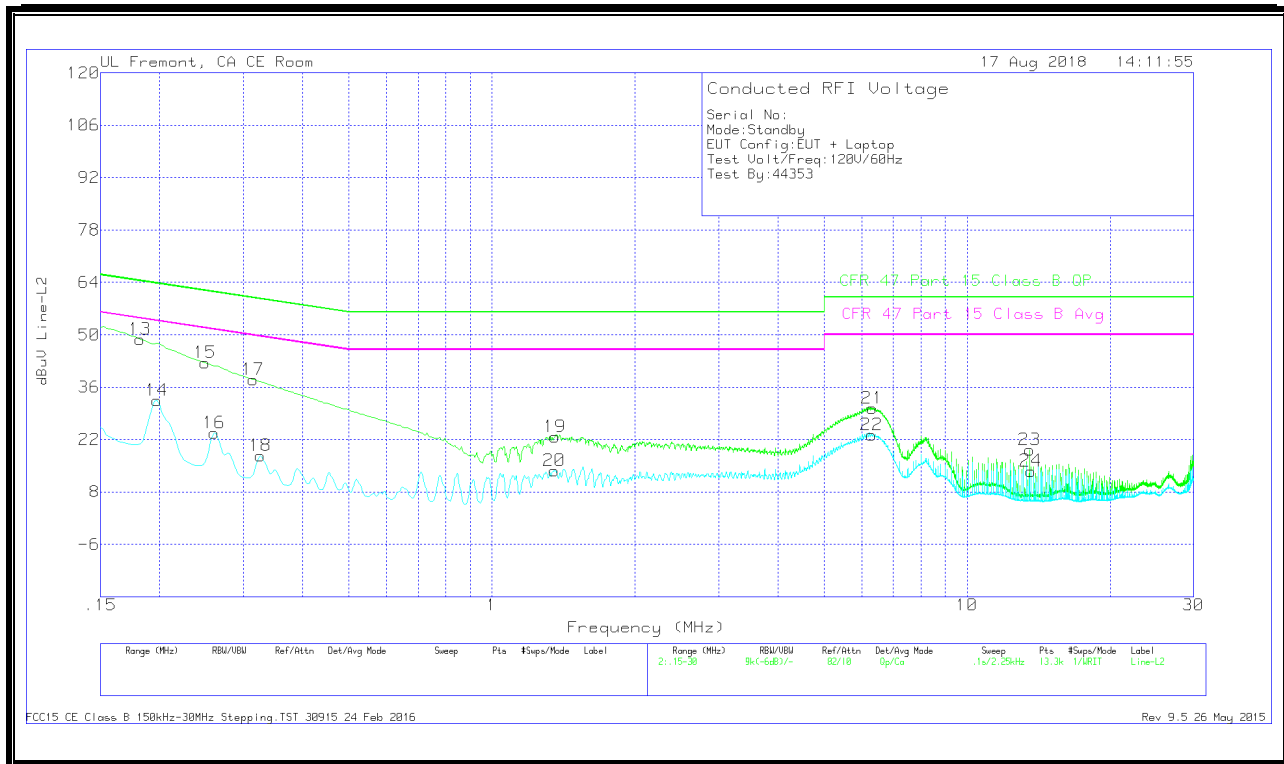


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	41.41	Qp	.1	0	10.1	51.61	65.63	-14.02	-	-
2	.15225	13.03	Ca	.1	0	10.1	23.23	-	-	55.88	-32.65
3	.19725	37.36	Qp	0	0	10.1	47.46	63.73	-16.27	-	-
4	.204	21.11	Ca	0	0	10.1	31.21	-	-	53.45	-22.24
5	1.39875	11.48	Qp	0	.1	10.1	21.68	56	-34.32	-	-
6	1.38975	3.18	Ca	0	.1	10.1	13.38	-	-	46	-32.62
7	5.874	19.26	Qp	0	.2	10.2	29.66	60	-30.34	-	-
8	5.87175	11.51	Ca	0	.2	10.2	21.91	-	-	50	-28.09
9	8.1285	9.51	Qp	0	.2	10.2	19.91	60	-40.09	-	-
10	8.12963	4.26	Ca	0	.2	10.2	14.66	-	-	50	-35.34
11	15.603	6.54	Qp	.1	.3	10.3	17.24	60	-42.76	-	-
12	15.603	3.73	Ca	.1	.3	10.3	14.43	-	-	50	-35.57

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



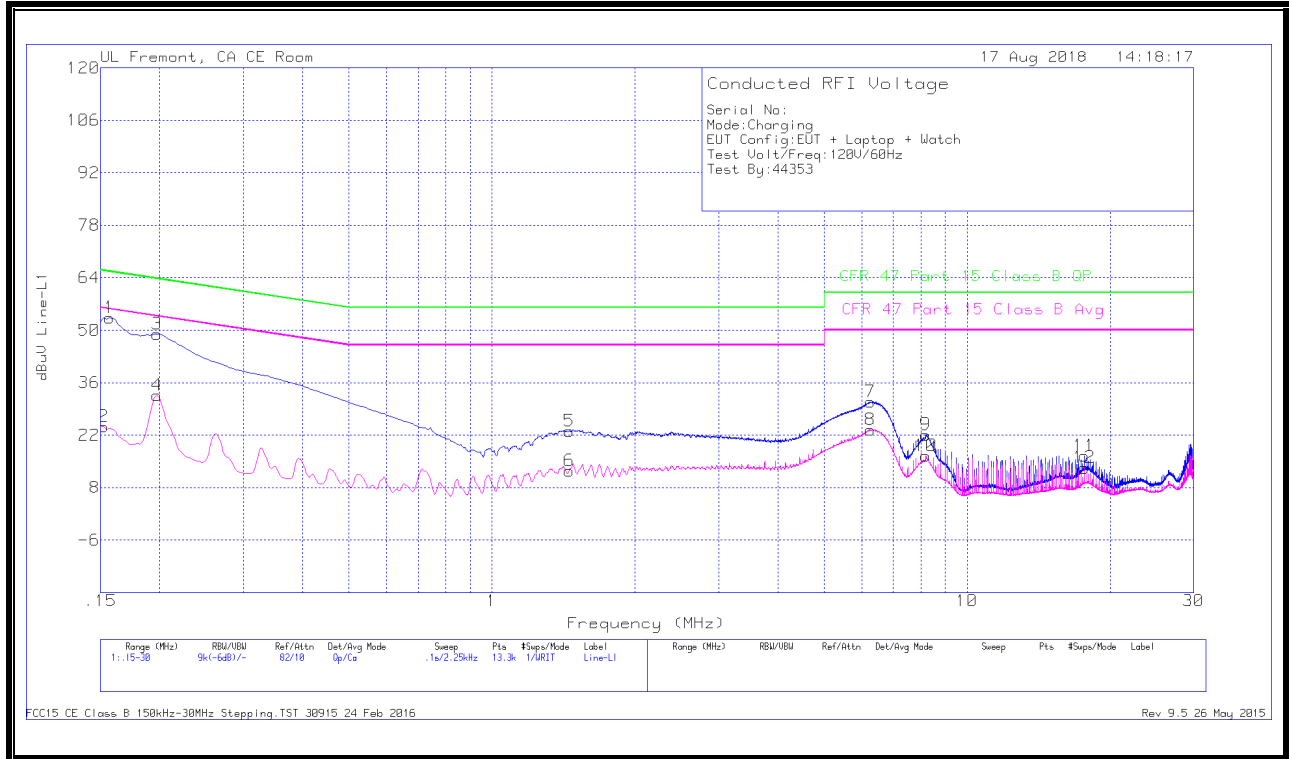
WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1815	38.76	Qp	0	0	10.1	48.86	64.42	-15.56	-	-
14	.19725	22.4	Ca	0	0	10.1	32.5	-	-	53.73	-21.23
15	.249	32.36	Qp	0	0	10.1	42.46	61.79	-19.33	-	-
16	.26025	13.61	Ca	0	0	10.1	23.71	-	-	51.42	-27.71
17	.31425	27.97	Qp	0	0	10.1	38.07	59.86	-21.79	-	-
18	.3255	7.6	Ca	0	0	10.1	17.7	-	-	49.57	-31.87
19	1.356	12.52	Qp	0	.1	10.1	22.72	56	-33.28	-	-
20	1.3515	3.48	Ca	0	.1	10.1	13.68	-	-	46	-32.32
21	6.3285	20.01	Qp	0	.2	10.2	30.41	60	-29.59	-	-
22	6.30825	12.85	Ca	0	.2	10.2	23.25	-	-	50	-26.75
23	13.56	8.67	Qp	.1	.2	10.2	19.17	60	-40.83	-	-
24	13.62975	3.08	Ca	.1	.2	10.2	13.58	-	-	50	-36.42

Qp - Quasi-Peak detector
Ca - CISPR average detection

9.1.4. OPERATING MODE POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

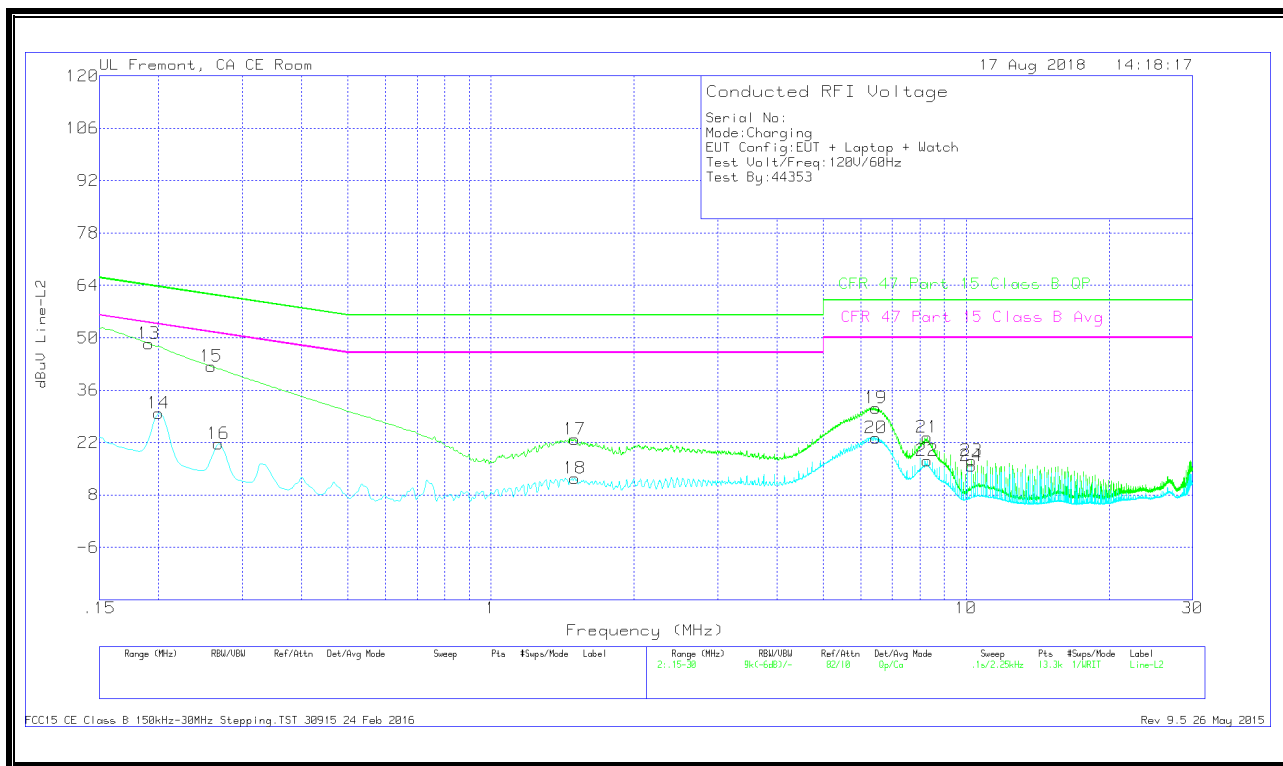


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	43.09	Qp	.1	0	10.1	53.29	65.63	-12.34	-	-
2	.15225	14.09	Ca	.1	0	10.1	24.29	-	-	55.88	-31.59
3	.19725	38.92	Qp	0	0	10.1	49.02	63.73	-14.71	-	-
4	.19725	22.57	Ca	0	0	10.1	32.67	-	-	53.73	-21.06
5	1.45275	12.89	Qp	0	.1	10.1	23.09	56	-32.91	-	-
6	1.45275	2.27	Ca	0	.1	10.1	12.47	-	-	46	-33.53
7	6.26775	20.5	Qp	0	.2	10.2	30.9	60	-29.1	-	-
8	6.26775	13.06	Ca	0	.2	10.2	23.46	-	-	50	-26.54
9	8.196	11.7	Qp	0	.2	10.2	22.1	60	-37.9	-	-
10	8.196	6.07	Ca	0	.2	10.2	16.47	-	-	50	-33.53
11	17.6775	5.83	Qp	.1	.3	10.3	16.53	60	-43.47	-	-
12	17.6775	2.54	Ca	.1	.3	10.3	13.24	-	-	50	-36.76

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

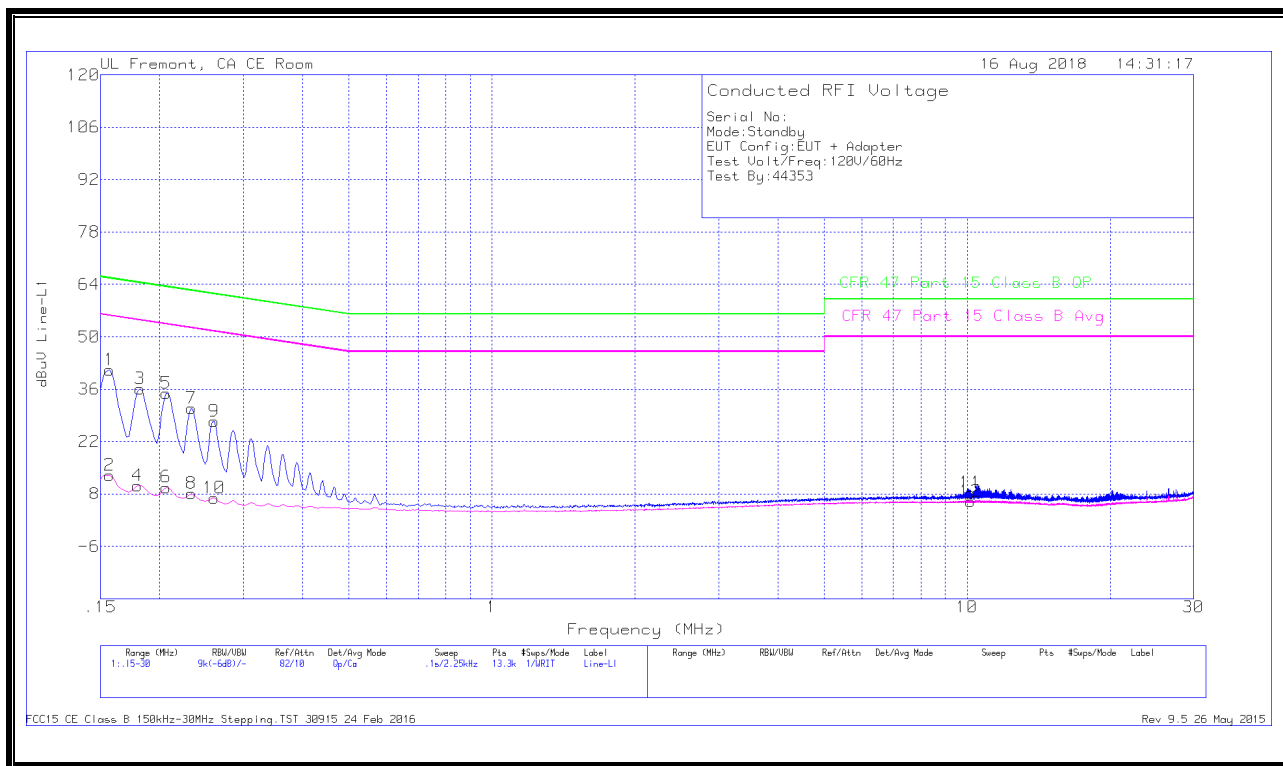
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1905	38.32	Qp	0	0	10.1	48.42	64.01	-15.59	-	-
14	.1995	19.67	Ca	0	0	10.1	29.77	-	-	53.63	-23.86
15	.258	32.22	Qp	0	0	10.1	42.32	61.5	-19.18	-	-
16	.267	11.54	Ca	0	0	10.1	21.64	-	-	51.21	-29.57
17	1.50225	12.62	Qp	0	.1	10.1	22.82	56	-33.18	-	-
18	1.5	2.24	Ca	0	.1	10.1	12.44	-	-	46	-33.56
19	6.45225	20.89	Qp	0	.2	10.2	31.29	60	-28.71	-	-
20	6.45225	12.84	Ca	0	.2	10.2	23.24	-	-	50	-26.76
21	8.295	12.93	Qp	0	.2	10.2	23.33	60	-36.67	-	-
22	8.295	6.78	Ca	0	.2	10.2	17.18	-	-	50	-32.82
23	10.2705	6.74	Qp	0	.2	10.2	17.14	60	-42.86	-	-
24	10.2705	5.33	Ca	0	.2	10.2	15.73	-	-	50	-34.27

Qp - Quasi-Peak detector
Ca - CISPR average detection

9.2. STAINLESS STEEL WITH 1M CABLE

9.2.1. STANDBY MODE POWERED BY AC/DC ADAPTER

LINE 1 RESULTS

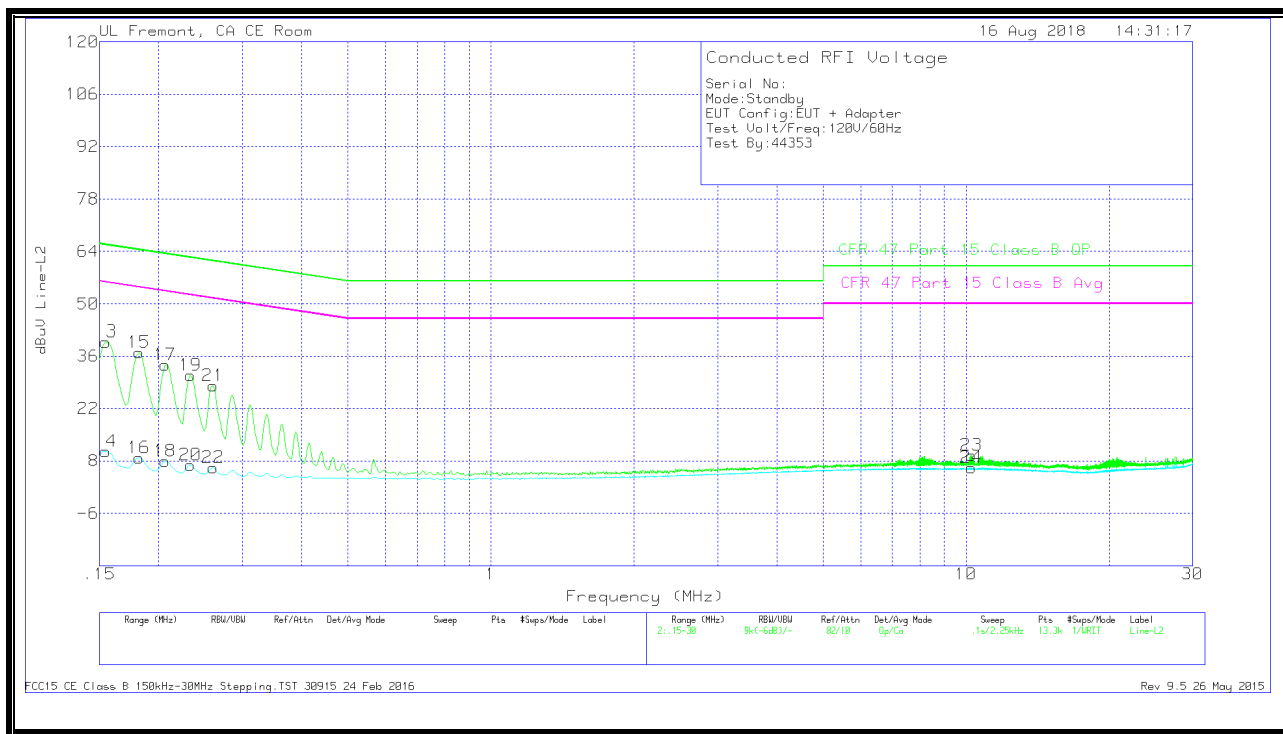


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	30.87	Qp	.1	0	10.1	41.07	65.63	-24.56	-	-
2	.15675	2.78	Ca	.1	0	10.1	12.98	-	-	55.63	-42.65
3	.1815	25.97	Qp	0	0	10.1	36.07	64.42	-28.35	-	-
4	.17925	.12	Ca	0	0	10.1	10.22	-	-	54.52	-44.3
5	.20625	24.72	Qp	0	0	10.1	34.82	63.35	-28.53	-	-
6	.20625	-.34	Ca	0	0	10.1	9.76	-	-	53.35	-43.59
7	.23325	20.75	Qp	0	0	10.1	30.85	62.33	-31.48	-	-
8	.23325	-2.04	Ca	0	0	10.1	8.06	-	-	52.33	-44.27
9	.26025	17.31	Qp	0	0	10.1	27.41	61.42	-34.01	-	-
10	.26025	-3.22	Ca	0	0	10.1	6.88	-	-	51.42	-44.54
11	10.1805	-2.12	Qp	0	.2	10.2	8.28	60	-51.72	-	-
12	10.1805	-4.3	Ca	0	.2	10.2	6.1	-	-	50	-43.9

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

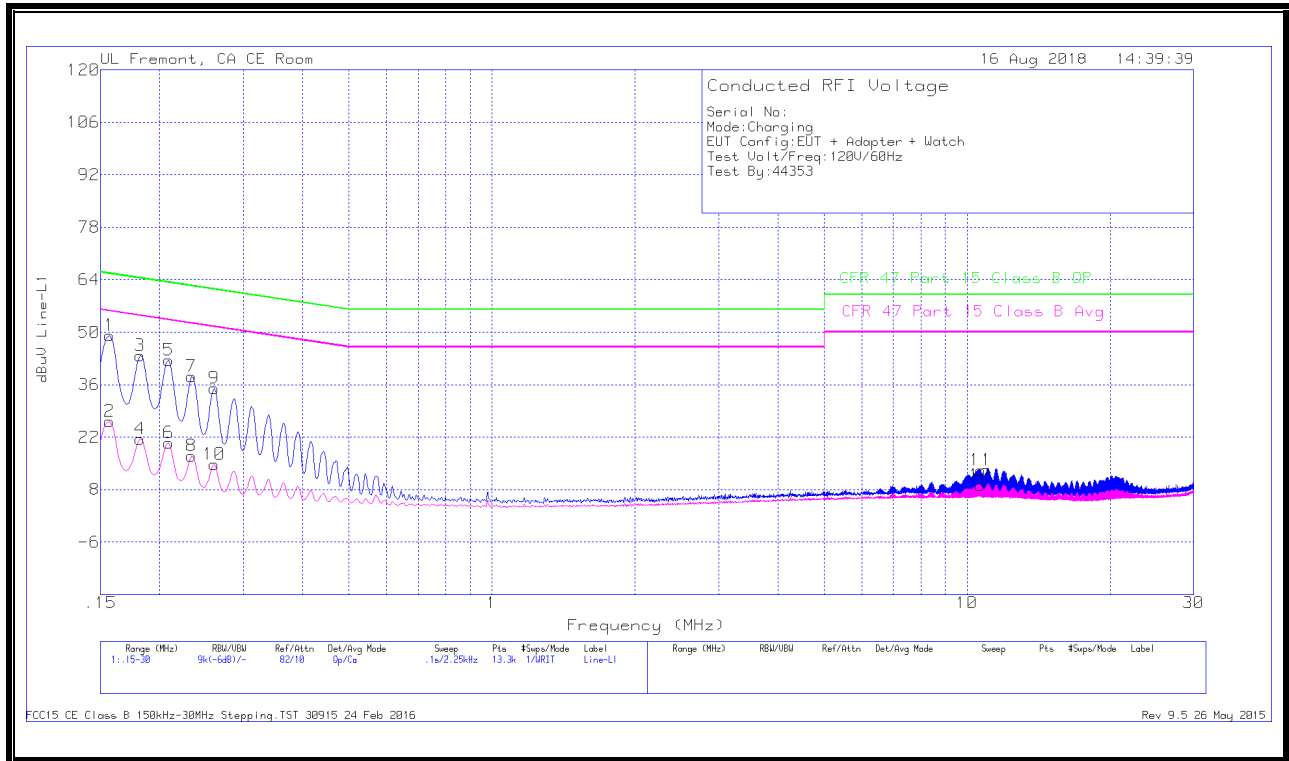
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1545	29.63	Qp	.1	0	10.1	39.83	65.75	-25.92	-	-
14	.1545	.41	Ca	.1	0	10.1	10.61	-	-	55.75	-45.14
15	.1815	26.84	Qp	0	0	10.1	36.94	64.42	-27.48	-	-
16	.1815	-1.22	Ca	0	0	10.1	8.88	-	-	54.42	-45.54
17	.20625	23.52	Qp	0	0	10.1	33.62	63.35	-29.73	-	-
18	.20625	-2.14	Ca	0	0	10.1	7.96	-	-	53.35	-45.39
19	.23325	20.78	Qp	0	0	10.1	30.88	62.33	-31.45	-	-
20	.23325	-3.13	Ca	0	0	10.1	6.97	-	-	52.33	-45.36
21	.26025	18	Qp	0	0	10.1	28.1	61.42	-33.32	-	-
22	.26025	-3.97	Ca	0	0	10.1	6.13	-	-	51.42	-45.29
23	10.2593	-9	Qp	0	.2	10.2	9.5	60	-50.5	-	-
24	10.2593	-4.16	Ca	0	.2	10.2	6.24	-	-	50	-43.76

Qp - Quasi-Peak detector

Ca - CISPR average detection

9.2.2. OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER

LINE 1 RESULTS

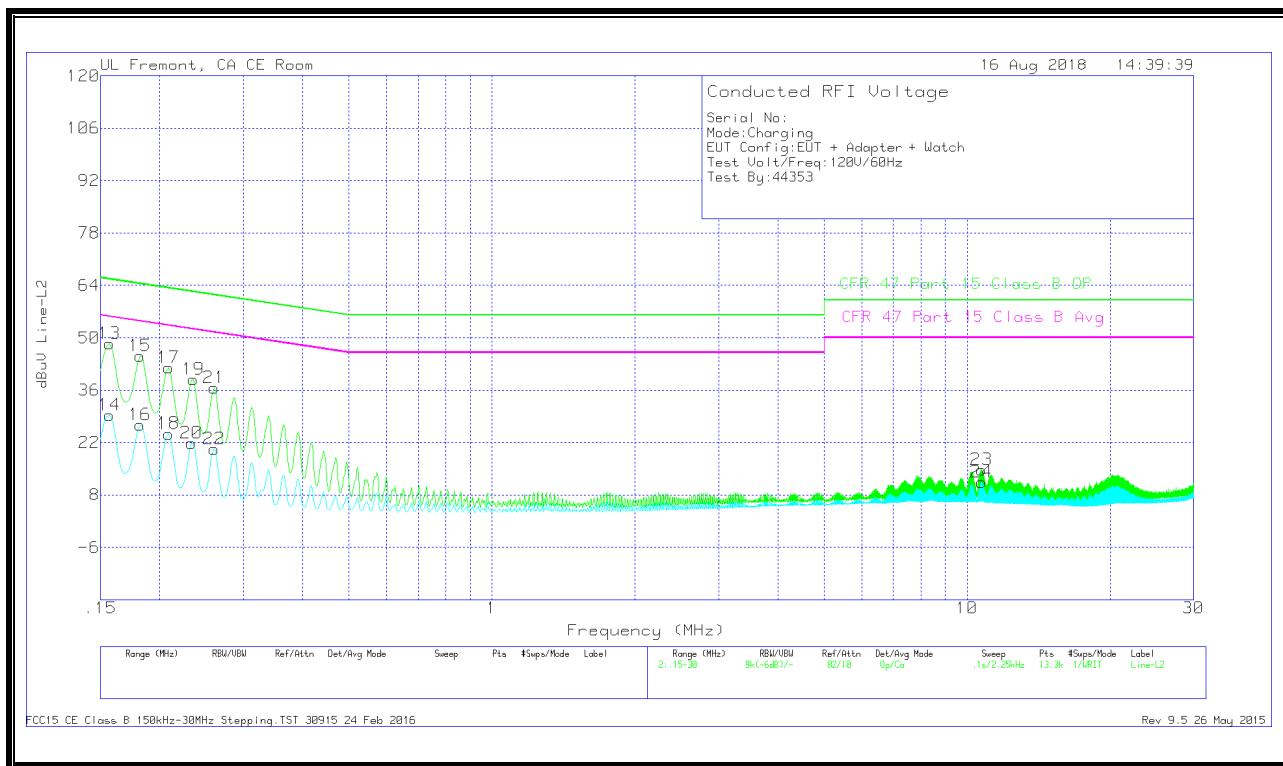


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	38.95	Qp	.1	0	10.1	49.15	65.63	-16.48	-	-
2	.15675	15.99	Ca	.1	0	10.1	26.19	-	-	55.63	-29.44
3	.1815	33.61	Qp	0	0	10.1	43.71	64.42	-20.71	-	-
4	.1815	11.36	Ca	0	0	10.1	21.46	-	-	54.42	-32.96
5	.2085	32.44	Qp	0	0	10.1	42.54	63.26	-20.72	-	-
6	.2085	10.31	Ca	0	0	10.1	20.41	-	-	53.26	-32.85
7	.23325	28.05	Qp	0	0	10.1	38.15	62.33	-24.18	-	-
8	.23325	6.89	Ca	0	0	10.1	16.99	-	-	52.33	-35.34
9	.26025	24.91	Qp	0	0	10.1	35.01	61.42	-26.41	-	-
10	.26025	4.64	Ca	0	0	10.1	14.74	-	-	51.42	-36.68
11	10.7025	2.7	Qp	0	.2	10.2	13.1	60	-46.9	-	-
12	10.6755	-1.28	Ca	0	.2	10.2	9.12	-	-	50	-40.88

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

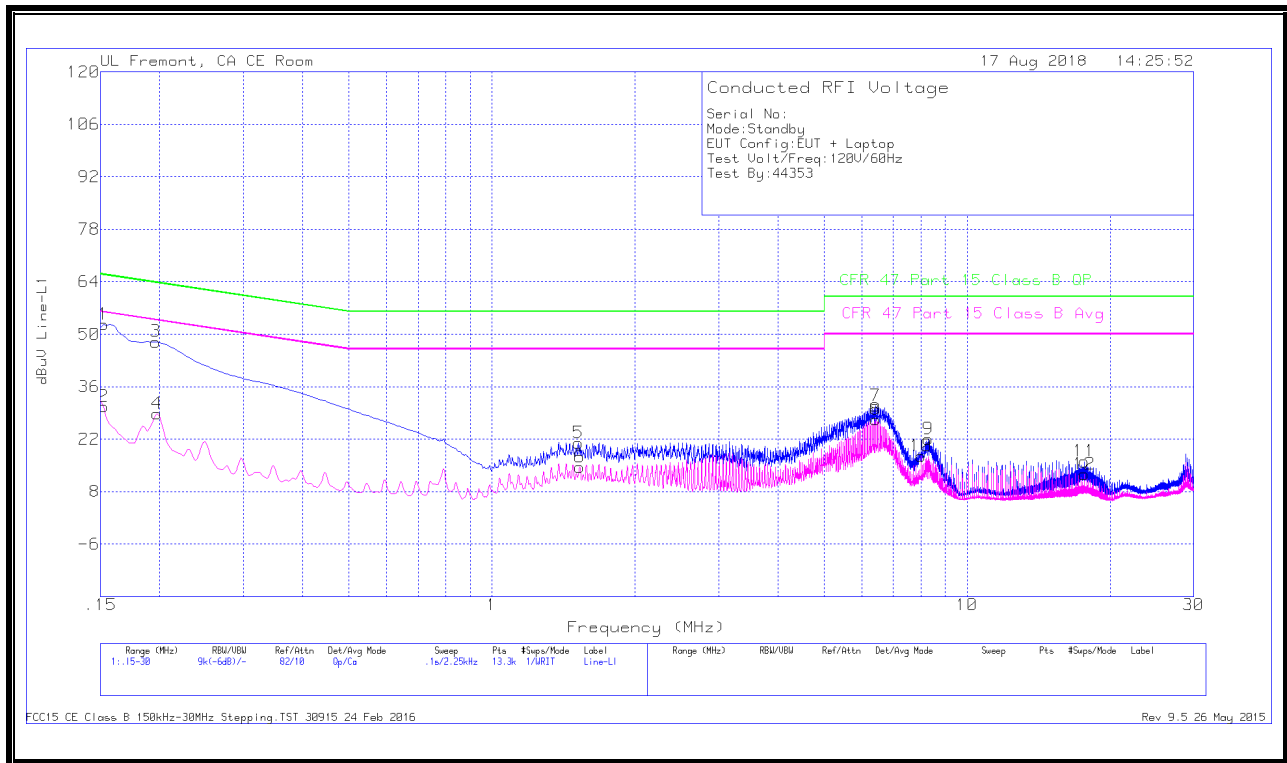
Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	38.95	Qp	.1	0	10.1	49.15	65.63	-16.48	-	-
2	.15675	15.99	Ca	.1	0	10.1	26.19	-	-	55.63	-29.44
3	.1815	33.61	Qp	0	0	10.1	43.71	64.42	-20.71	-	-
4	.1815	11.36	Ca	0	0	10.1	21.46	-	-	54.42	-32.96
5	.2085	32.44	Qp	0	0	10.1	42.54	63.26	-20.72	-	-
6	.2085	10.31	Ca	0	0	10.1	20.41	-	-	53.26	-32.85
7	.23325	28.05	Qp	0	0	10.1	38.15	62.33	-24.18	-	-
8	.23325	6.89	Ca	0	0	10.1	16.99	-	-	52.33	-35.34
9	.26025	24.91	Qp	0	0	10.1	35.01	61.42	-26.41	-	-
10	.26025	4.64	Ca	0	0	10.1	14.74	-	-	51.42	-36.68
11	10.7025	2.7	Qp	0	.2	10.2	13.1	60	-46.9	-	-
12	10.6755	-1.28	Ca	0	.2	10.2	9.12	-	-	50	-40.88

Qp - Quasi-Peak detector

Ca - CISPR average detection

9.2.3. STANDBY MODE POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

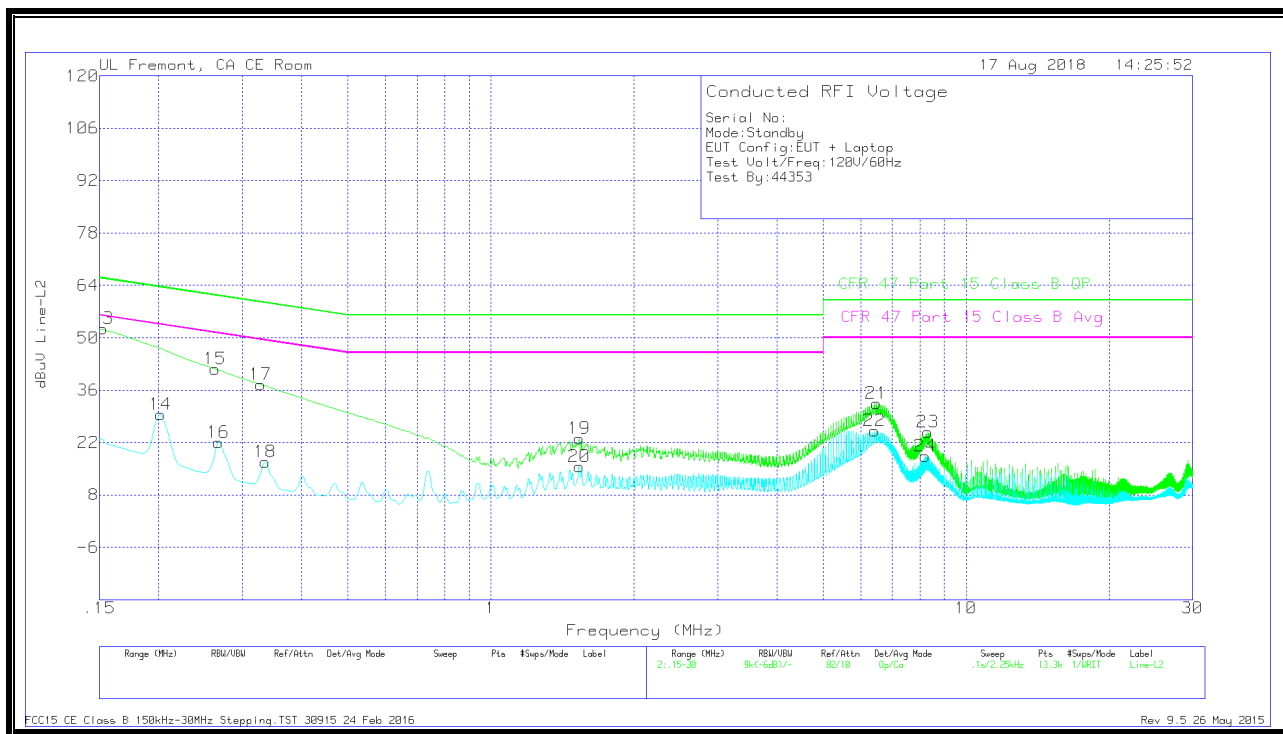


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15225	42.4	Qp	.1	0	10.1	52.6	65.88	-13.28	-	-
2	.15225	20.5	Ca	.1	0	10.1	30.7	-	-	55.88	-25.18
3	.19613	37.9	Qp	0	0	10.1	48	63.77	-15.77	-	-
4	.19725	18.66	Ca	0	0	10.1	28.76	-	-	53.73	-24.97
5	1.52025	10.8	Qp	0	.1	10.1	21	56	-35	-	-
6	1.5315	4.41	Ca	0	.1	10.1	14.61	-	-	46	-31.39
7	6.42075	20.53	Qp	0	.2	10.2	30.93	60	-29.07	-	-
8	6.42075	16.76	Ca	0	.2	10.2	27.16	-	-	50	-22.84
9	8.29725	11.61	Qp	0	.2	10.2	22.01	60	-37.99	-	-
10	8.00025	7.03	Ca	0	.2	10.2	17.43	-	-	50	-32.57
11	17.6775	5.32	Qp	.1	.3	10.3	16.02	60	-43.98	-	-
12	17.6775	1.98	Ca	.1	.3	10.3	12.68	-	-	50	-37.32

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



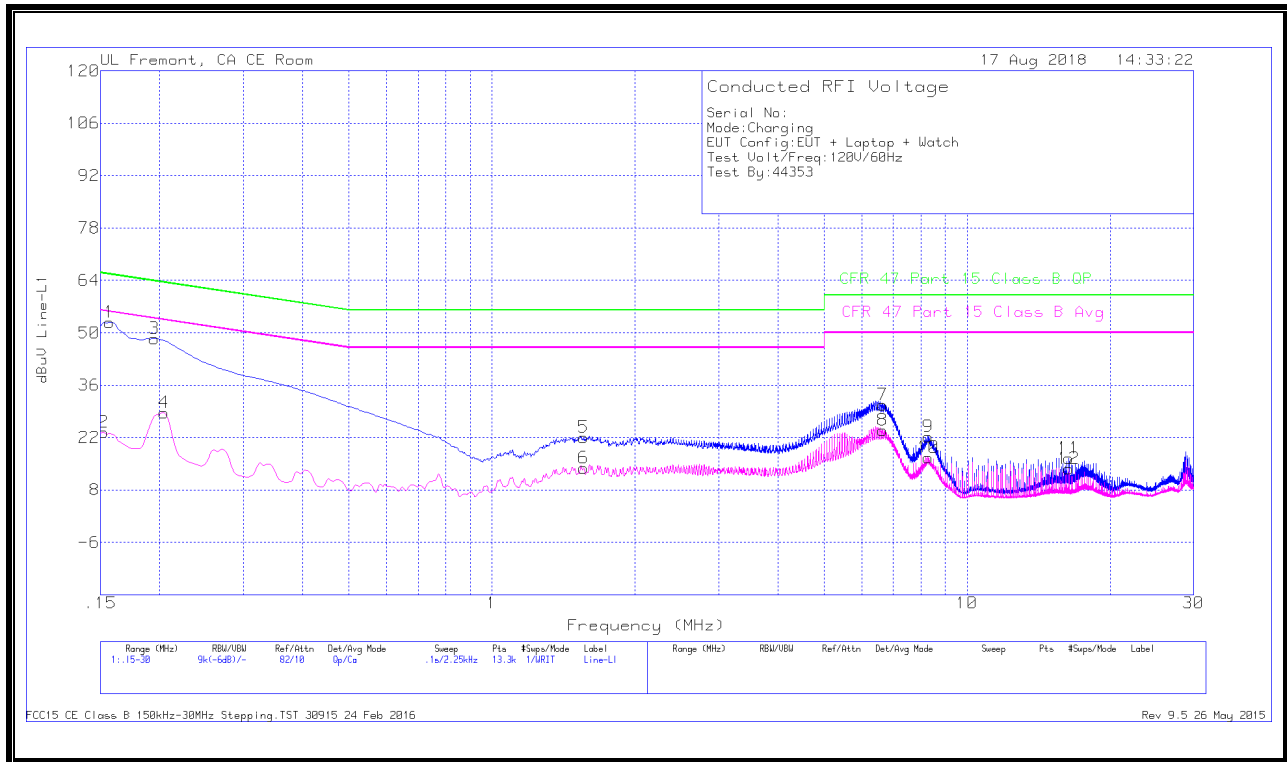
WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.15225	42.23	Qp	.1	0	10.1	52.43	65.88	-13.45	-	-
14	.20175	19.39	Ca	0	0	10.1	29.49	-	-	53.54	-24.05
15	.2625	31.52	Qp	0	0	10.1	41.62	61.35	-19.73	-	-
16	.267	11.97	Ca	0	0	10.1	22.07	-	-	51.21	-29.14
17	.32775	27.39	Qp	0	0	10.1	37.49	59.51	-22.02	-	-
18	.3345	6.72	Ca	0	0	10.1	16.82	-	-	49.34	-32.52
19	1.53375	12.79	Qp	0	.1	10.1	22.99	56	-33.01	-	-
20	1.53375	5.34	Ca	0	.1	10.1	15.54	-	-	46	-30.46
21	6.4815	22.02	Qp	0	.2	10.2	32.42	60	-27.58	-	-
22	6.414	14.78	Ca	0	.2	10.2	25.18	-	-	50	-24.82
23	8.304	14.34	Qp	0	.2	10.2	24.74	60	-35.26	-	-
24	8.19825	7.9	Ca	0	.2	10.2	18.3	-	-	50	-31.7

Qp - Quasi-Peak detector
Ca - CISPR average detection

9.2.4. OPERATING MODE WITH WATCH POWERED BY HOST PC VIA USB CABLE

LINE 1 RESULTS

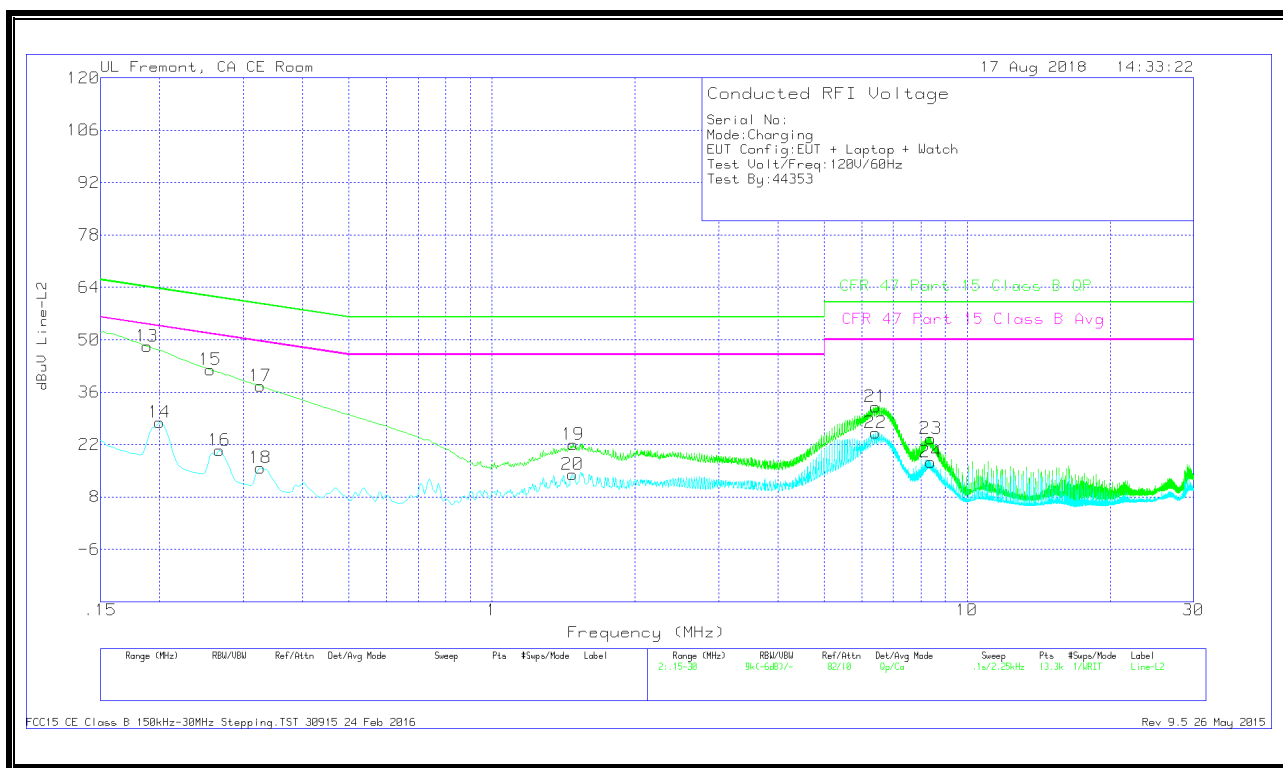


WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	42.64	Qp	.1	0	10.1	52.84	65.63	-12.79	-	-
2	.15225	13.24	Ca	.1	0	10.1	23.44	-	-	55.88	-32.44
3	.195	38.33	Qp	0	0	10.1	48.43	63.82	-15.39	-	-
4	.204	18.56	Ca	0	0	10.1	28.66	-	-	53.45	-24.79
5	1.56075	11.76	Qp	0	.1	10.1	21.96	56	-34.04	-	-
6	1.56075	3.72	Ca	0	.1	10.1	13.92	-	-	46	-32.08
7	6.63675	20.26	Qp	0	.2	10.2	30.66	60	-29.34	-	-
8	6.63675	13.57	Ca	0	.2	10.2	23.97	-	-	50	-26.03
9	8.27925	11.77	Qp	0	.2	10.2	22.17	60	-37.83	-	-
10	8.295	6.3	Ca	0	.2	10.2	16.7	-	-	50	-33.3
11	16.395	5.69	Qp	.1	.3	10.3	16.39	60	-43.61	-	-
12	16.395	3	Ca	.1	.3	10.3	13.7	-	-	50	-36.3

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.18825	38.18	Qp	0	0	10.1	48.28	64.11	-15.83	-	-
14	.1995	17.75	Ca	0	0	10.1	27.85	-	-	53.63	-25.78
15	.25575	31.91	Qp	0	0	10.1	42.01	61.57	-19.56	-	-
16	.267	10.29	Ca	0	0	10.1	20.39	-	-	51.21	-30.82
17	.3255	27.54	Qp	0	0	10.1	37.64	59.57	-21.93	-	-
18	.3255	5.65	Ca	0	0	10.1	15.75	-	-	49.57	-33.82
19	1.48425	11.74	Qp	0	.1	10.1	21.94	56	-34.06	-	-
20	1.4775	3.87	Ca	0	.1	10.1	14.07	-	-	46	-31.93
21	6.4185	21.76	Qp	0	.2	10.2	32.16	60	-27.84	-	-
22	6.41625	14.7	Ca	0	.2	10.2	25.1	-	-	50	-24.9
23	8.3985	13.25	Qp	0	.2	10.2	23.65	60	-36.35	-	-
24	8.3985	6.99	Ca	0	.2	10.2	17.39	-	-	50	-32.61

Qp - Quasi-Peak detector

Ca - CISPR average detection