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

CERTIFICATION TEST REPORT

FOR

MAGNETIC CHARGING CABLE

MODEL NO: A1923

FCC ID: BCGA1923

IC: 579C-A1923

REPORT NUMBER: 12486407-E1V1

ISSUE DATE: SEPTEMBER 05, 2018

Prepared for
APPLE, INC.
ONE APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Prepared by
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	09/05/2018	Initial Issue	Chin Pang

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TABLE OF CONTENTS

This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

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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: A1923

SERIAL NUMBER: DLC8244001MJQHJ4W, DLC8244001MJQHJ4W & DLC824500BJQHK4K

DATE TESTED: AUGUEST 14 to 21, 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
UL Verification Services Inc. By:

CHIN PANG
SENIOR TEST ENGINEER
UL VERIFICATION SERVICES INC.

Prepared By:

JINGANG LI
LAB ENGINEER
UL VERIFICATION SERVICES INC.

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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:

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

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

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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)	-23.87	5.03
326.5	Operating (Config 2)	-25.57	5.71

5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was 9.0.9.

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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 examined on the configurations 1 and 2.

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

An AC Power Line conducted Emissions were also investigated on 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

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 AC power adapter and with 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 (parallel, perpendicular, and ground-parallel); parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only

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.

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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	C02NQ00QG45V	FCC DoC
Laptop Adapter	Apple	A1435	C046042GFYFG6HKAY	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	2	5W Power Supply
2	DC	1	Magnetic 5 pin	Un-shielded	2	60W 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.

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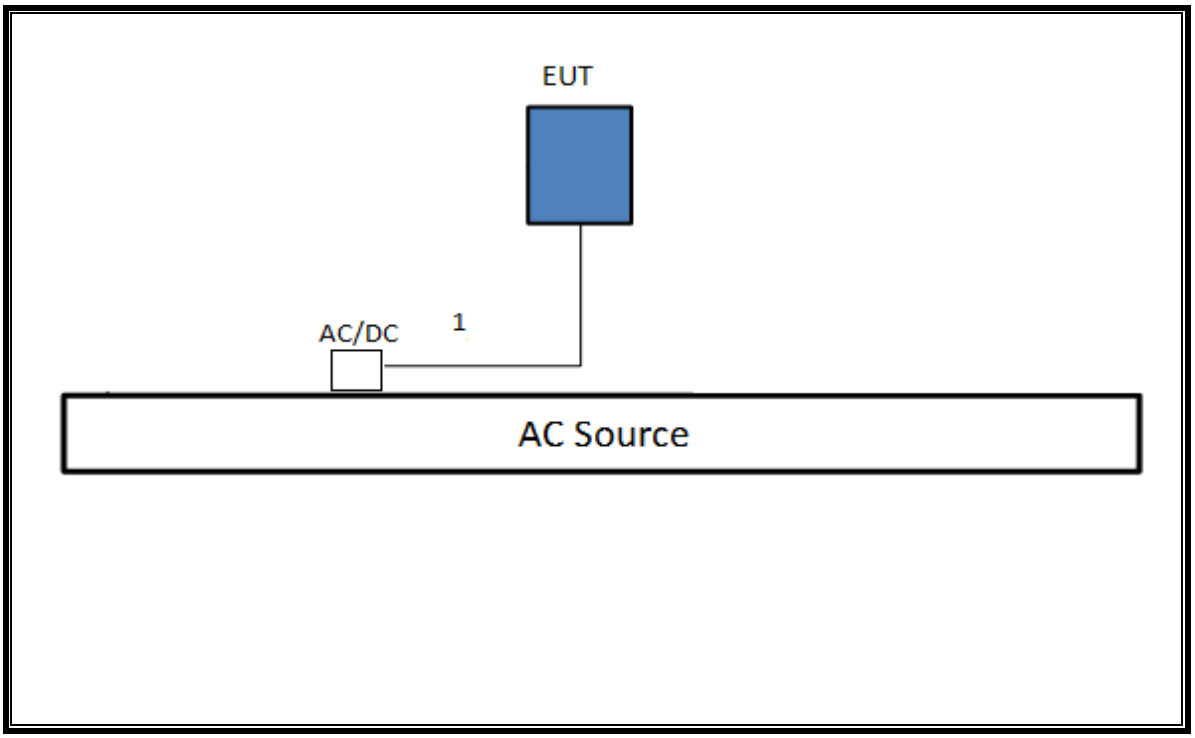
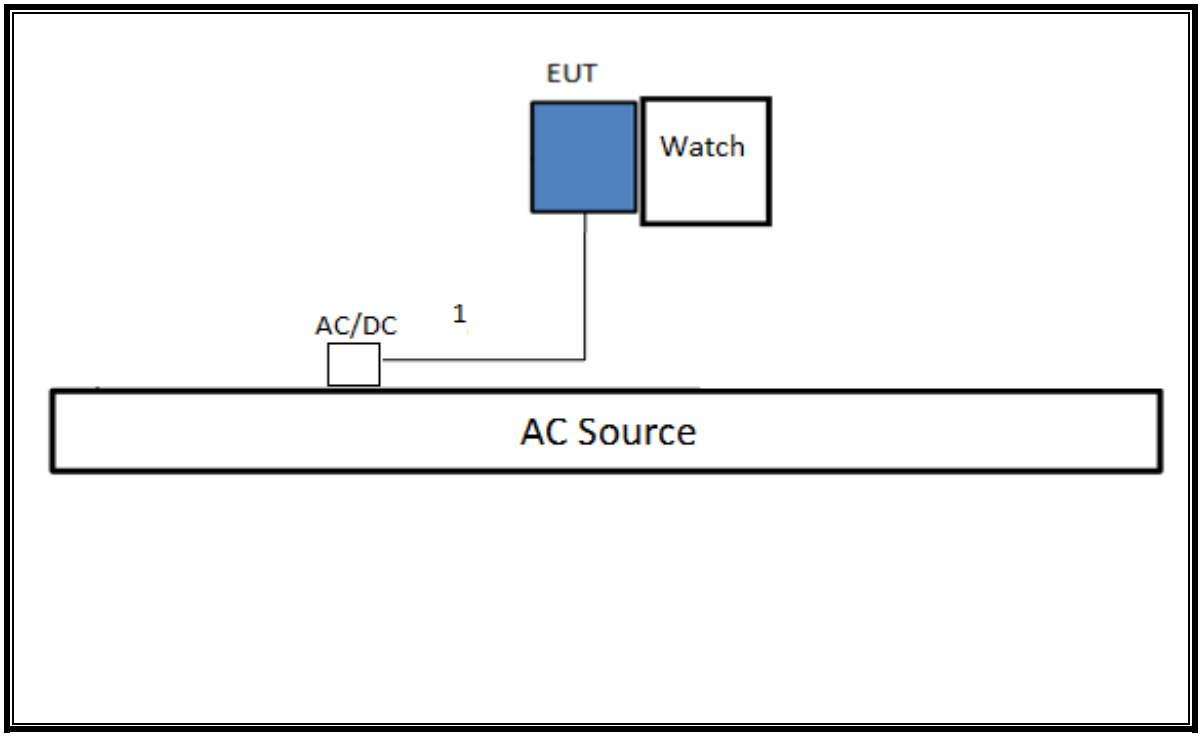
CONFIGURATION 1: STANDBY MODE



CONFIGURATION 2: OPERATING MODE WITH WATCH



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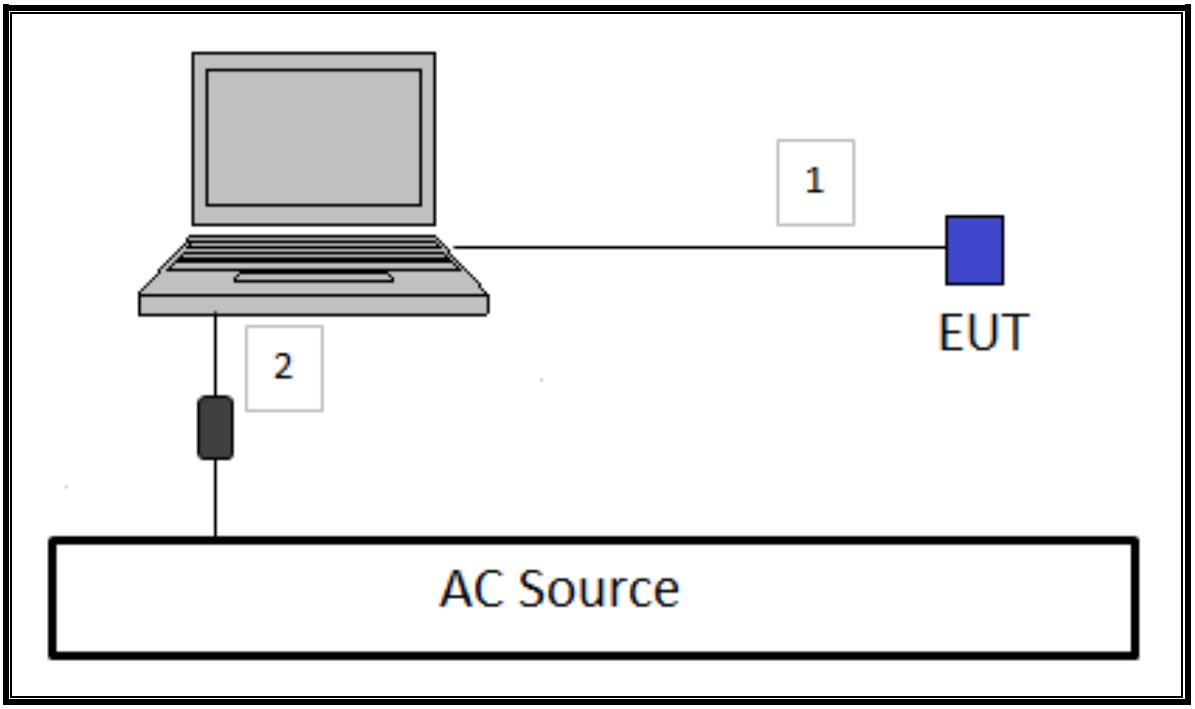
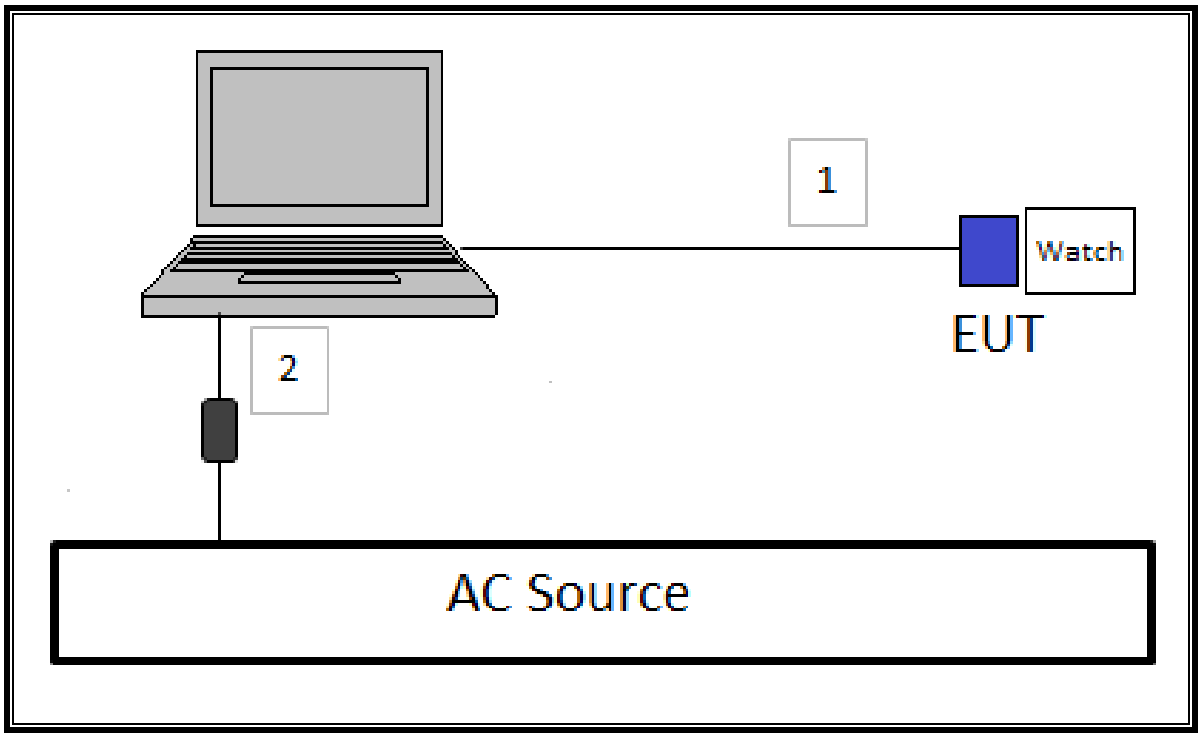
CONFIGURATION 3: AC LINE SETUP: STANDBY MODE BY HOST PC VIA USB CABLE



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



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6. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**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	ESCI7	T1436	01/25/2019
LISN for Conducted Emissions CISPR-16	Fischer	50/250-25-2-01	T1310	06/15/2019
Power Cable, Line Conducted Emissions	UL	PG1	T861	08/31/2018

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

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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

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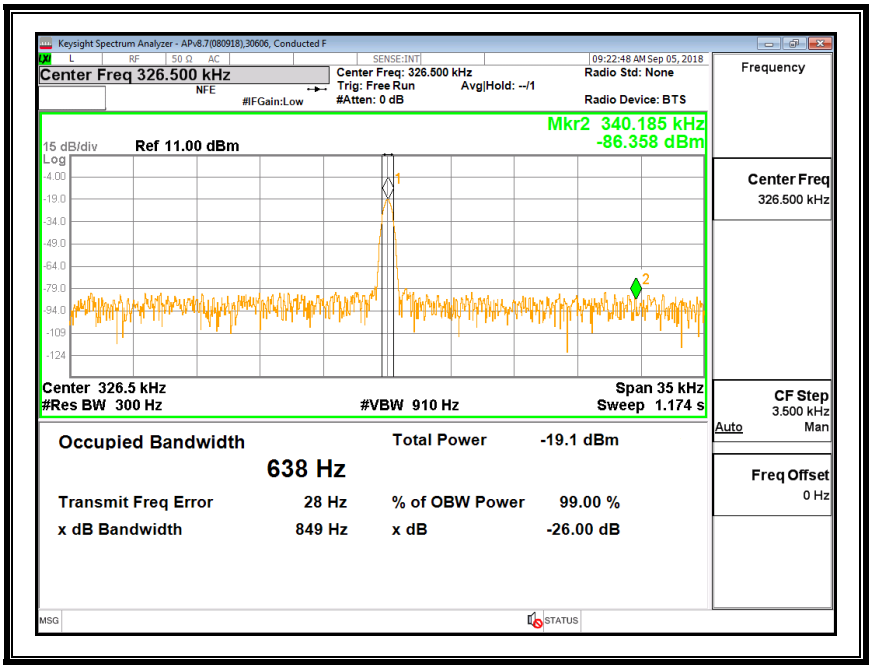
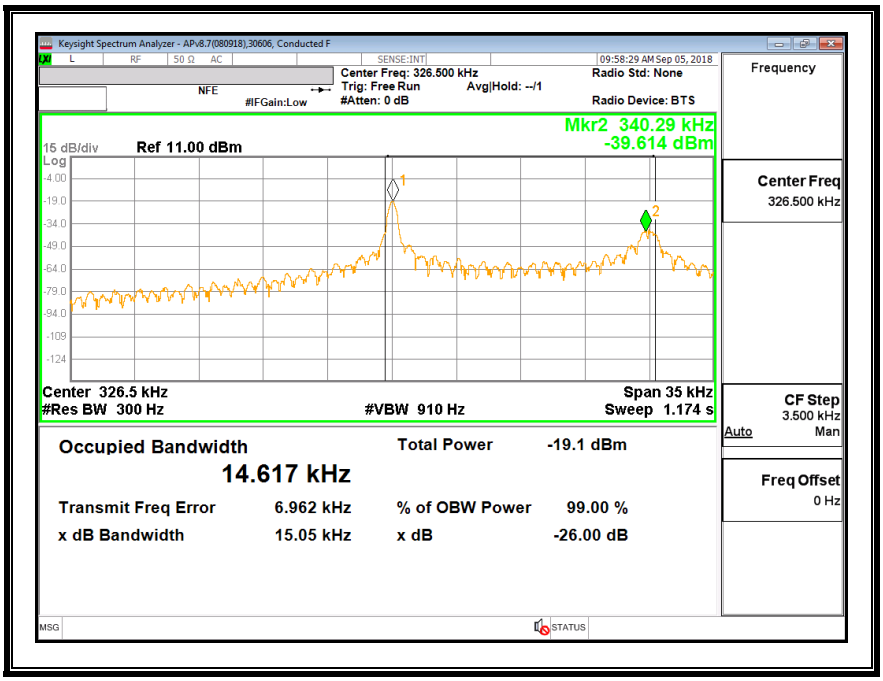
7.1.1. CONFIGURATION 1



7.1.2. CONFIGURATION 2



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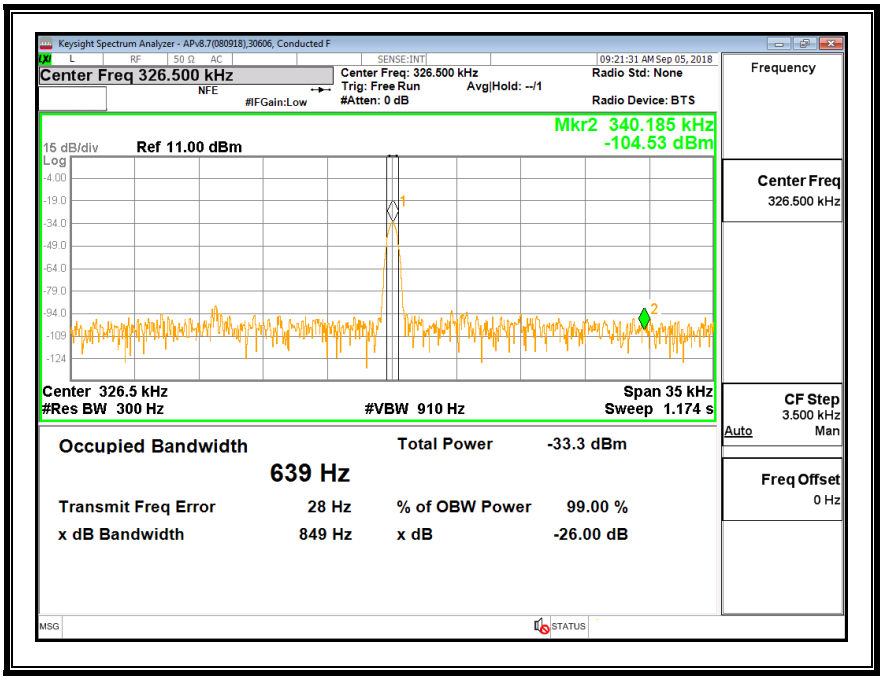
7.1.3. CONFIGURATION 3



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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.	

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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

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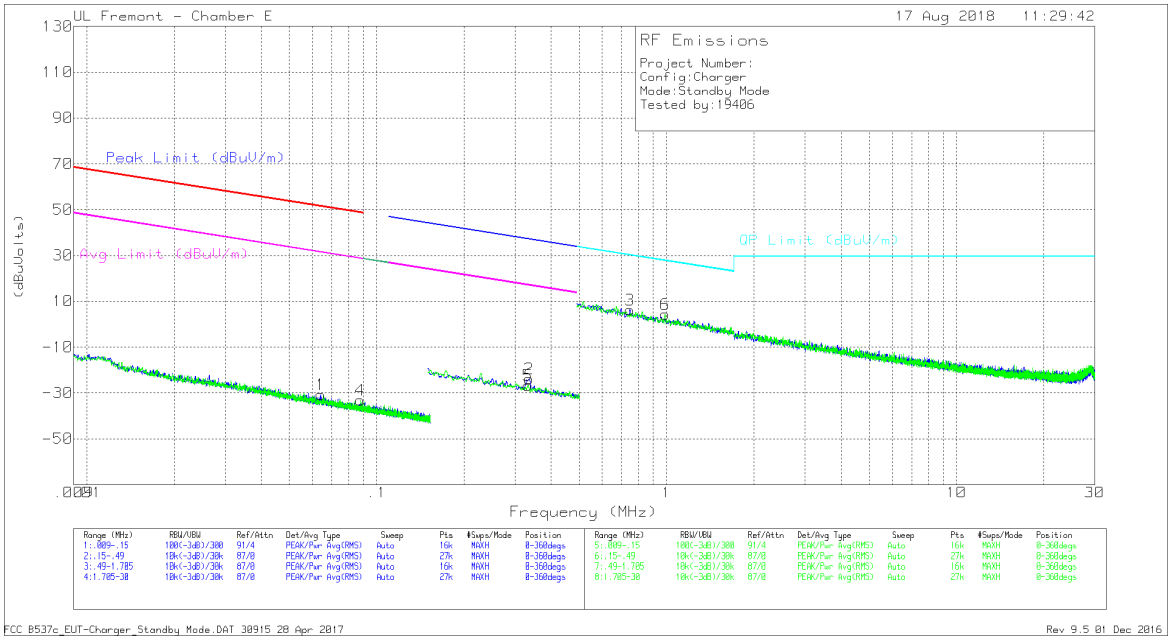
8.2. STAINLESS STEEL WITH 0.3M CABLE

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

STANDBY CONFIGURATION

PARALLEL AND PERPENDICULAR PLOT



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)
1	.06398	37.14	Pk	12.1	.1	-80	-30.66	51.46	-82.12	31.46	-62.12	-	-	-	-	0-360
4	.08774	34.99	Pk	11.8	.1	-80	-33.11	48.72	-81.83	28.72	-61.83	-	-	-	-	0-360
5	.33262	41.66	Pk	11.5	.1	-80	-26.74	-	-	-	-	37.17	-63.91	17.17	-43.91	0-360
2	.33579	44.54	Pk	11.5	.1	-80	-23.86	-	-	-	-	37.09	-60.95	17.09	-40.95	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	.7481	34.57	Pk	11.5	.2	-40	6.27	30.14	-23.87	0-360
6	.98864	32.65	Pk	11.5	.2	-40	4.35	27.72	-23.37	0-360

Pk - Peak detector

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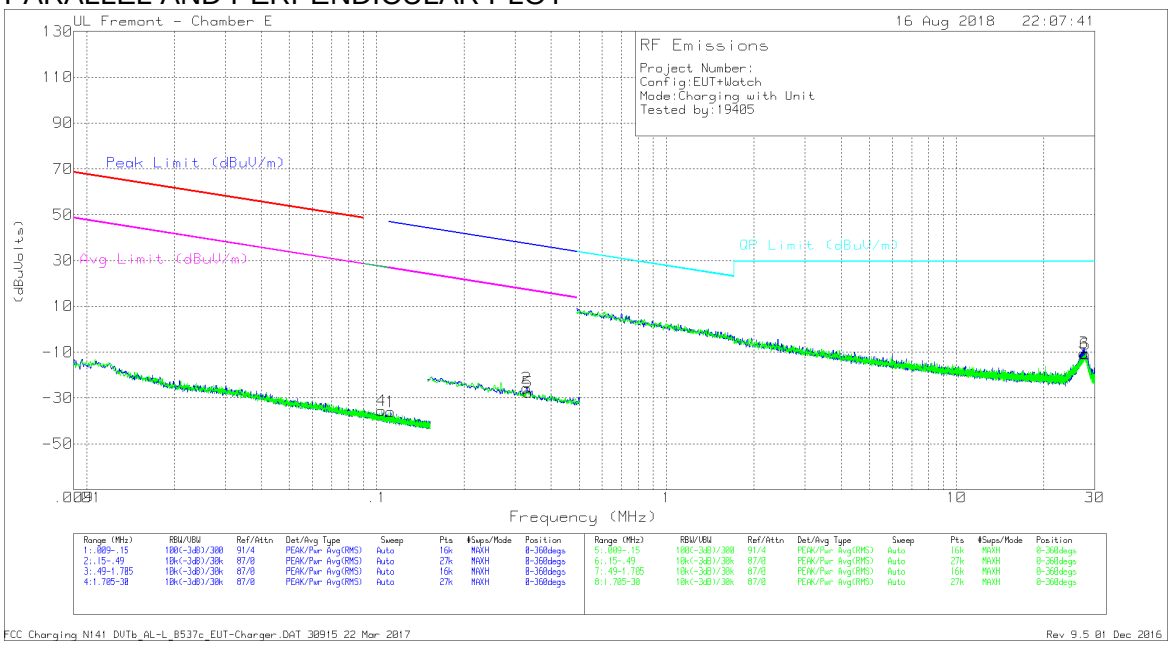
OPERATING WITH WATCH

PARALLEL AND PERPENDICULAR PLOT



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)
4	.10385	33.4	Pk	11.1	.1	-80	-35.4	27.29	-62.69	-	-	-	-	0-360
1	.11192	32.66	Pk	11.1	.1	-80	-36.14	-	-	46.65	-82.79	26.65	-62.79	0-360
2	.32986	43.31	Pk	10.9	.1	-80	-25.69	-	-	37.24	-62.93	17.24	-42.93	0-360
5	.33229	41.48	Pk	10.9	.1	-80	-27.52	-	-	37.18	-64.7	17.18	-44.7	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	27.48528	18.92	Pk	10	.7	-40	-10.38	29.5	-39.88	0-360
6	27.81487	18.63	Pk	9.9	.7	-40	-10.77	29.5	-40.27	0-360

Pk - Peak detector

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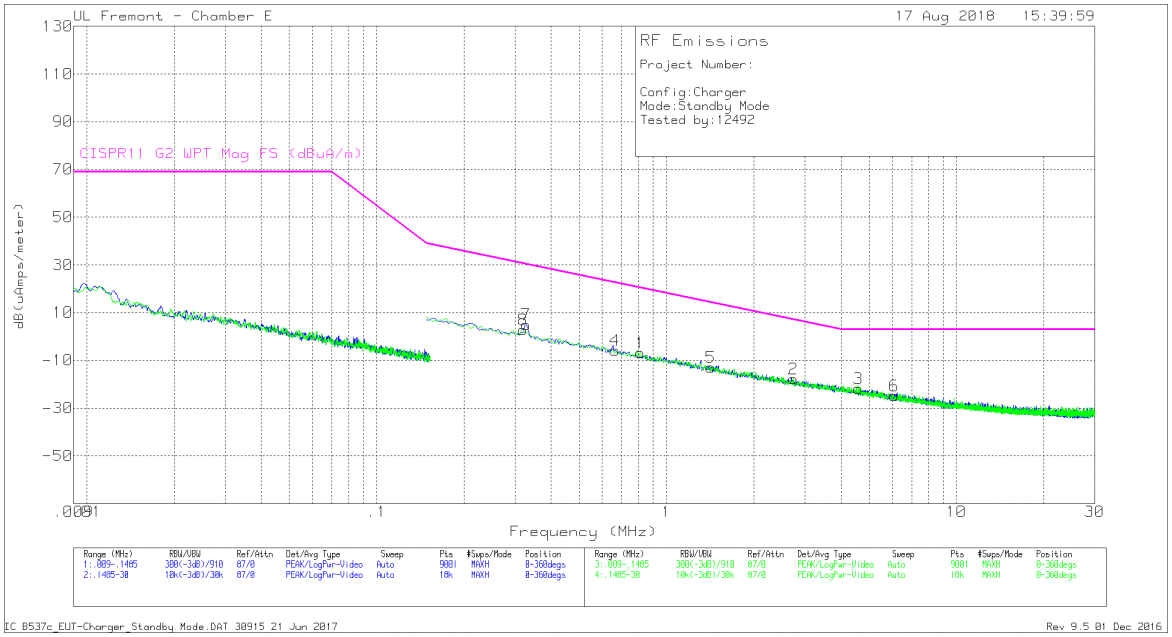
8.2.2. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

STANDBY CONFIGURATION

PARALLEL AND PERPENDICULAR PLOT



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)
8	.31927	43.26	Pk	-40.5	.1	2.86	30.63	-27.77	0-360
7	.32756	45.43	Pk	-40.5	.1	5.03	30.35	-25.32	0-360
4	.66414	34.52	Pk	-40.4	.2	-5.68	22.63	-28.31	0-360
1	.8117	33.54	Pk	-40.4	.2	-6.66	20.43	-27.09	0-360
5	1.42184	27.2	Pk	-40.2	.2	-12.8	14.31	-27.11	0-360
2	2.74327	22.15	Pk	-40.1	.3	-17.65	7.12	-24.77	0-360
3	4.59028	18.01	Pk	-40.1	.4	-21.69	3	-24.69	0-360
6	6.09575	15.03	Pk	-40.3	.4	-24.87	3	-27.87	0-360

Pk - Peak detector

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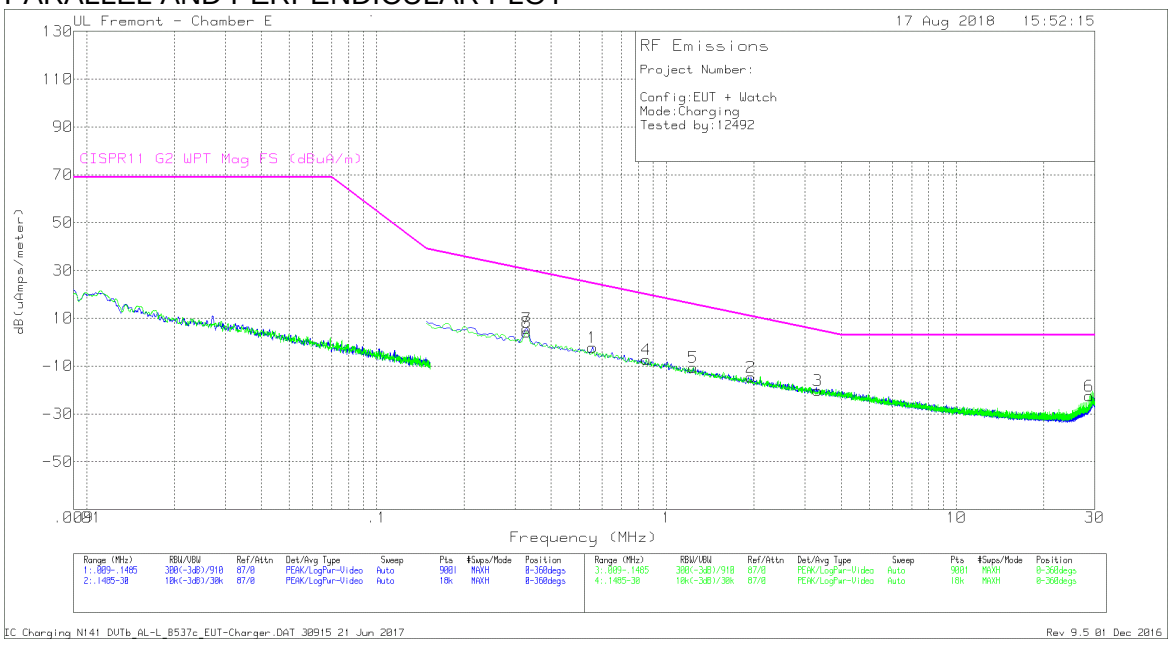
OPERATING WITH WATCH

PARALLEL AND PERPENDICULAR PLOT



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	.32922	46.11	Pk	-40.5	.1	5.71	30.3	-24.59	0-360
8	.32922	44.55	Pk	-40.5	.1	4.15	30.3	-26.15	0-360
1	.55554	37.97	Pk	-40.4	.2	-2.23	24.58	-26.81	0-360
4	.85149	32.95	Pk	-40.4	.2	-7.25	19.91	-27.16	0-360
5	1.23449	29.35	Pk	-40.2	.2	-10.65	15.85	-26.5	0-360
2	1.95406	25.13	Pk	-40.1	.3	-14.67	10.83	-25.5	0-360
3	3.3244	19.69	Pk	-40.1	.3	-20.11	5.02	-25.13	0-360
6	28.72745	19.41	Pk	-42.9	1	-22.49	3	-25.49	0-360

Pk - Peak detector

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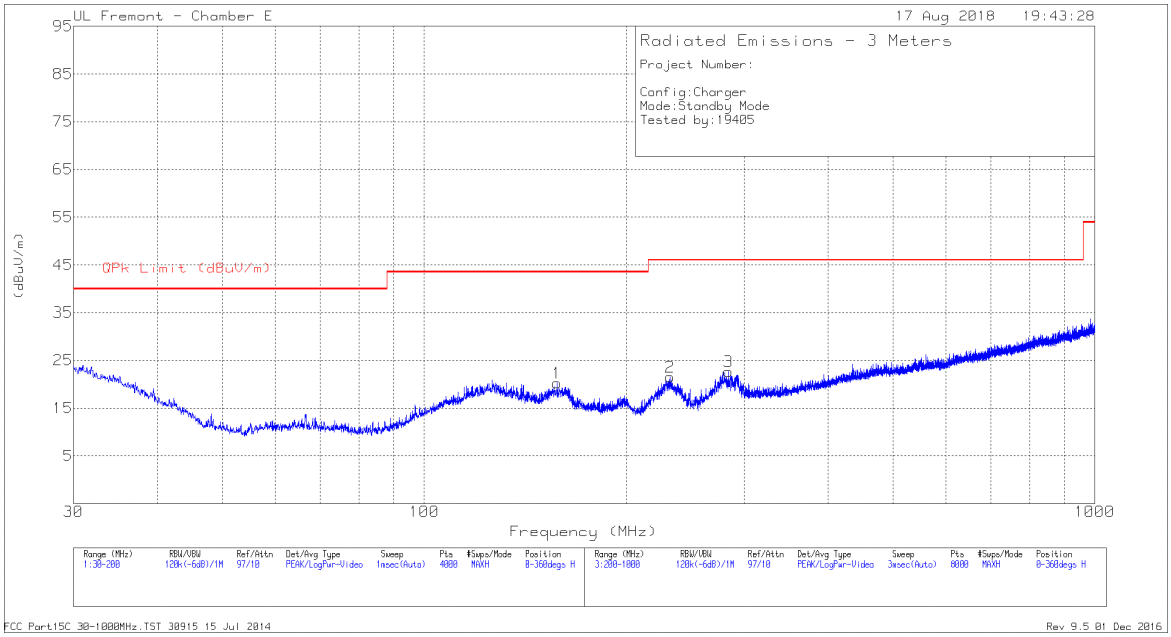
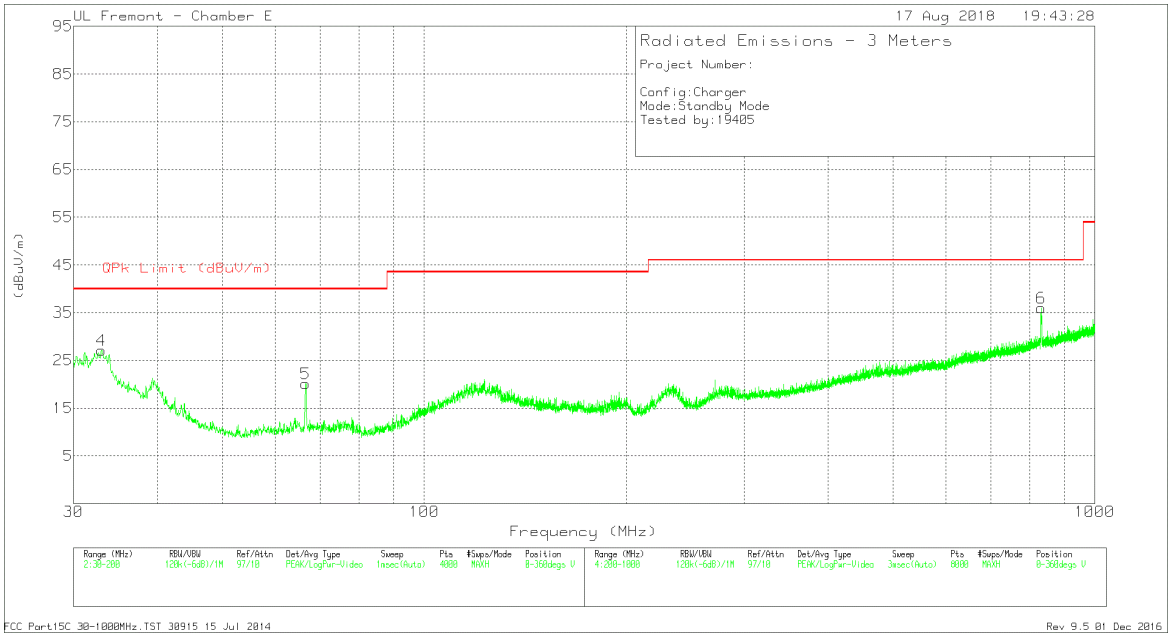
8.2.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

STANDBY CONFIGURATION

HORIZONTAL PLOT



VERTICAL PLOT



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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
3	* 284.2109	32.8	Pk	19.2	-29.3	22.7	46.02	-23.32	0-360	100	H
4	33.0183	33.98	Pk	24.8	-31.6	27.18	40	-12.82	0-360	100	V
5	66.602	37.07	Pk	14.2	-31.1	20.17	40	-19.83	0-360	100	V
1	157.7456	32.35	Pk	18.2	-30.3	20.25	43.52	-23.27	0-360	200	H
2	232.5042	34.17	Pk	17.1	-29.7	21.57	46.02	-24.45	0-360	100	H
6	831.8821	34.59	Pk	27.8	-26.4	35.99	46.02	-10.03	0-360	300	V

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

Pk - Peak detector

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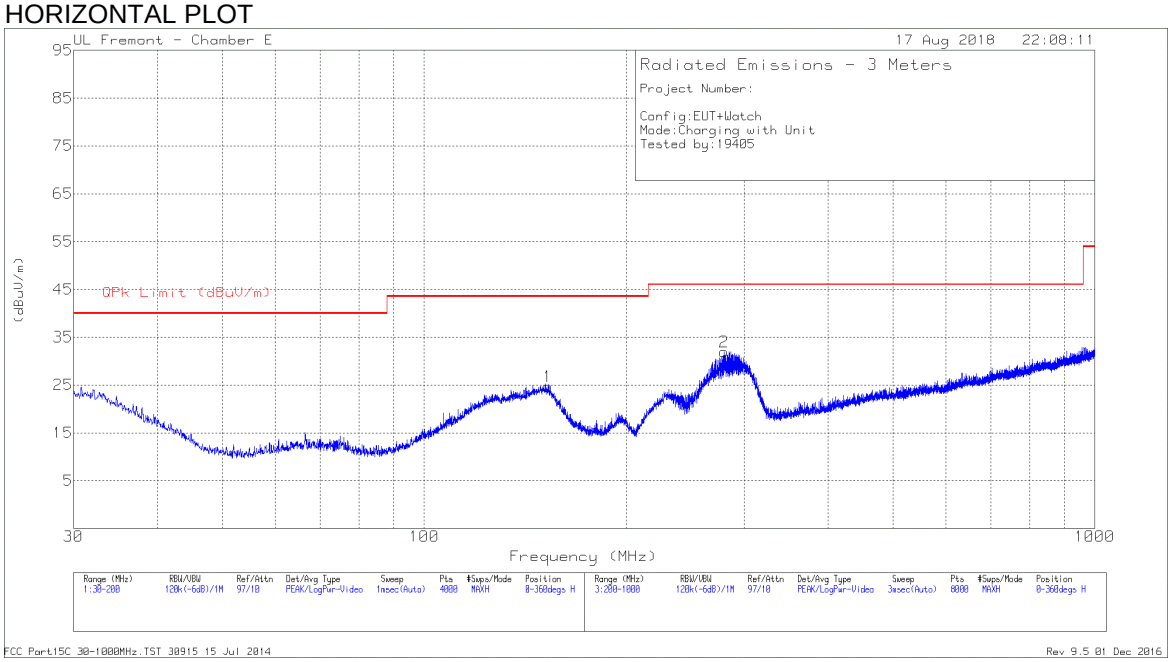
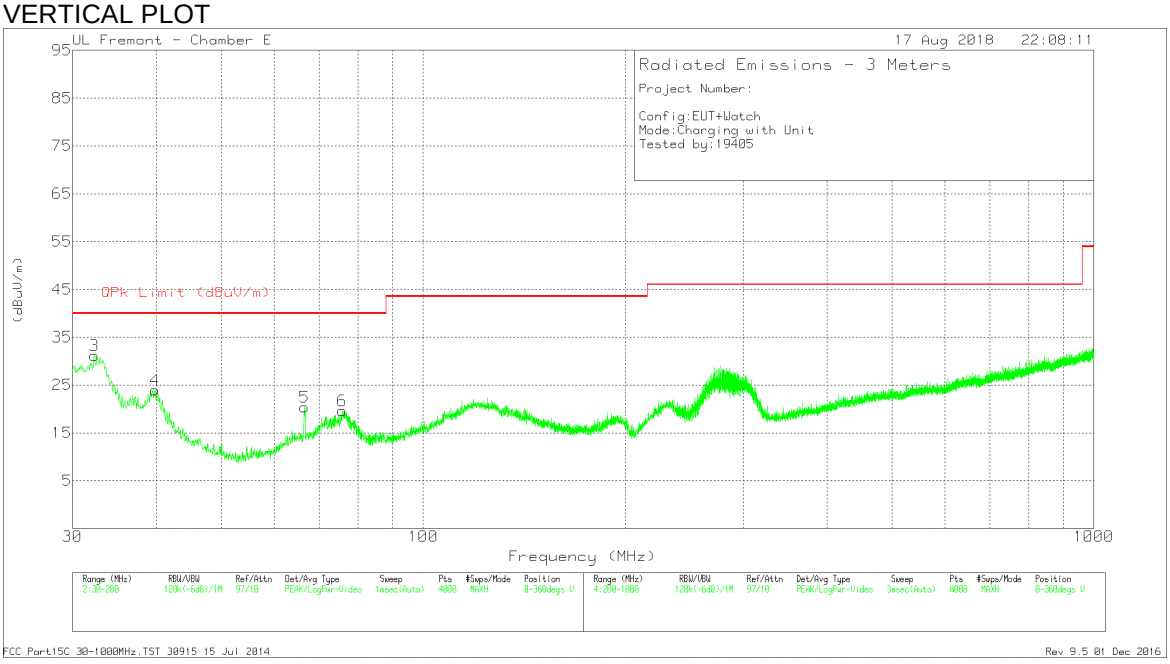
OPERATING WITH WATCH

HORIZONTAL PLOT



VERTICAL PLOT



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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	* 280.1104	41.95	Pk	19.3	-29.3	31.95	46.02	-14.07	0-360	100	H
3	32.3381	37.38	Pk	25.4	-31.6	31.18	40	-8.82	0-360	100	V
4	39.82	35.02	Pk	20.4	-31.5	23.92	40	-16.08	0-360	100	V
5	66.602	37.3	Pk	14.2	-31.1	20.4	40	-19.6	0-360	100	V
6	75.7418	37	Pk	13.6	-31	19.6	40	-20.4	0-360	100	V
1	152.9843	36.61	Pk	18.4	-30.3	24.71	43.52	-18.81	0-360	99	H

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

Pk - Peak detector

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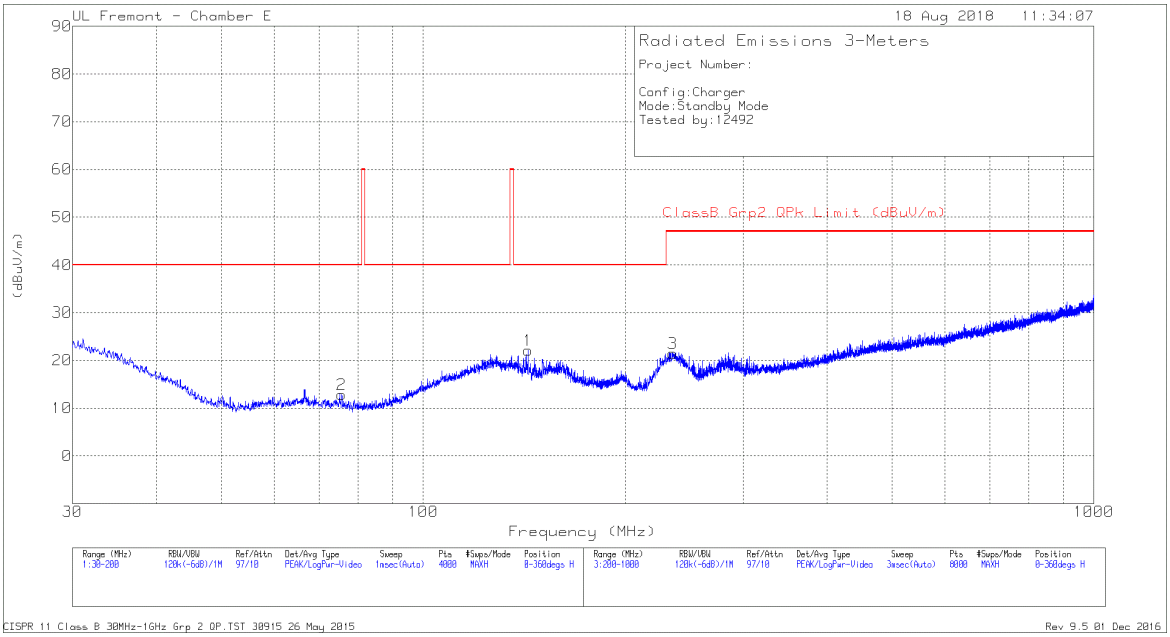
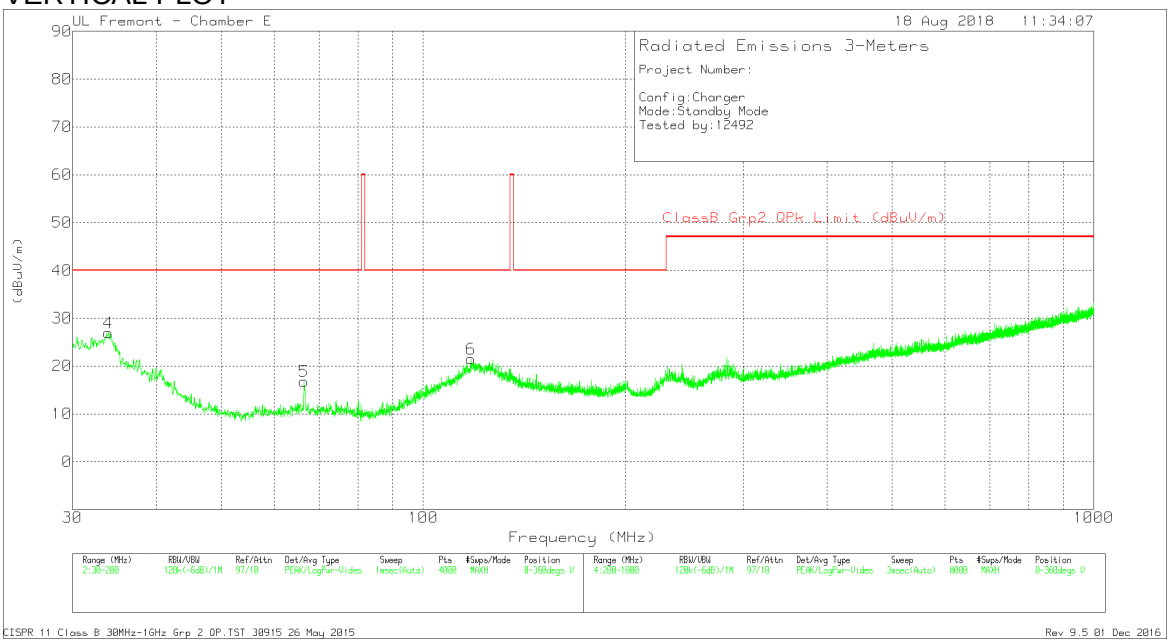
8.2.4. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz

STANDBY CONFIGURATION

HORIZONTAL PLOT



VERTICAL PLOT



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DATA

Marker	Frequency (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	33.9535	34.38	Pk	24.1	-31.5	26.98	40	-13.02	0-360	100	V
5	66.3894	33.66	Pk	14.2	-31.1	16.76	40	-23.24	0-360	100	V
2	75.6143	30.27	Pk	13.6	-31	12.87	40	-27.13	0-360	300	H
6	117.7852	32.16	Pk	19.9	-30.6	21.46	40	-18.54	0-360	100	V
1	143.3768	33.2	Pk	19.2	-30.3	22.1	40	-17.9	0-360	199	H
3	235.7046	33.9	Pk	17.2	-29.6	21.5	47	-25.5	0-360	100	H

Pk - Peak detector

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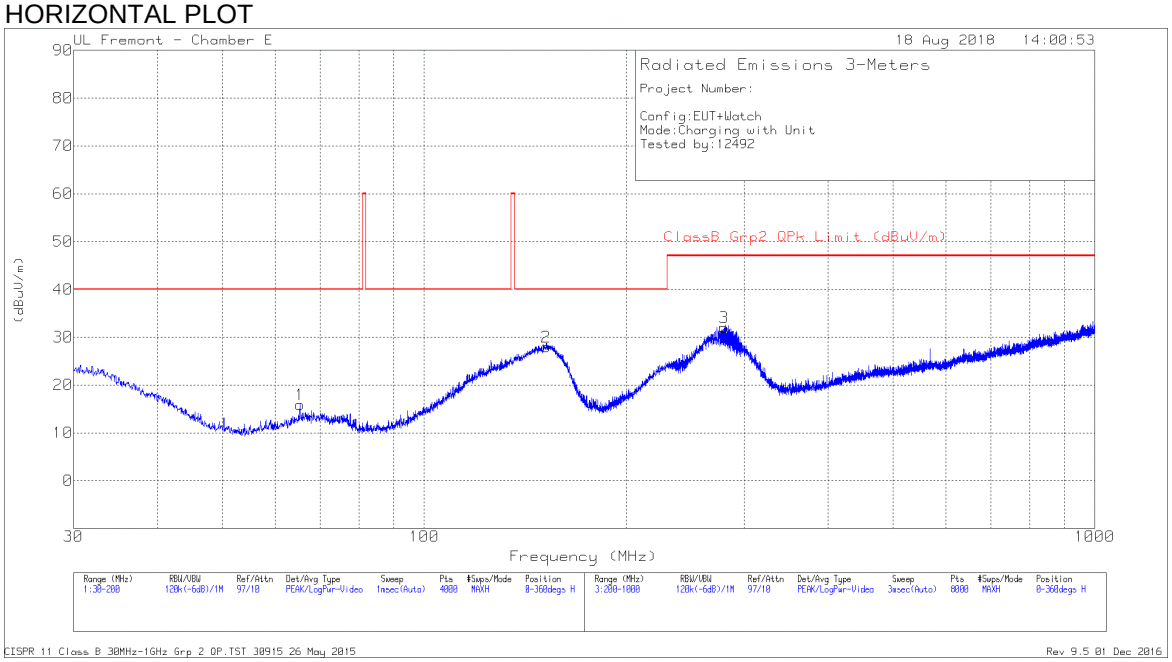
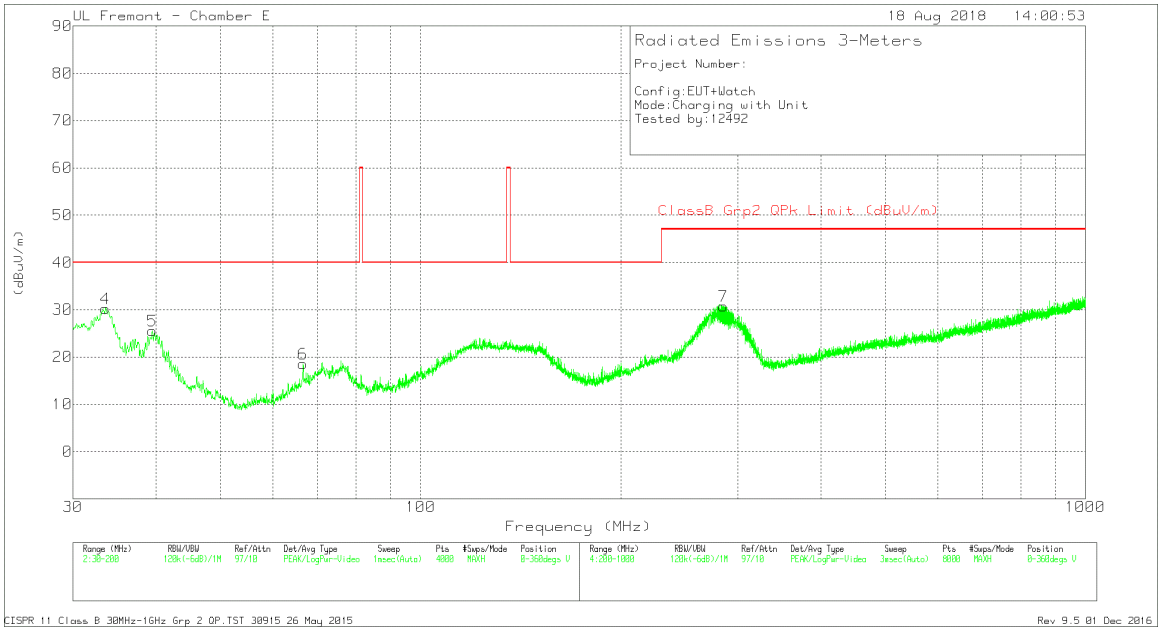
OPERATING WITH WATCH

HORIZONTAL PLOT



VERTICAL PLOT



This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

DATA

Marker	Frequency (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	33.5709	37.4	Pk	24.4	-31.5	30.3	40	-9.7	0-360	100	V
5	39.48	36.33	Pk	20.7	-31.5	25.53	40	-14.47	0-360	100	V
1	65.2416	32.76	Pk	14.3	-31.1	15.96	40	-24.04	0-360	100	H
6	66.602	35.47	Pk	14.2	-31.1	18.57	40	-21.43	0-360	100	V
2	151.879	39.76	Pk	18.5	-30.3	27.96	40	-12.04	0-360	200	H
3	280.1104	42.06	Pk	19.3	-29.3	32.06	47	-14.94	0-360	100	H
7	285.1111	40.81	Pk	19.2	-29.3	30.71	47	-16.29	0-360	100	V

Pk - Peak detector

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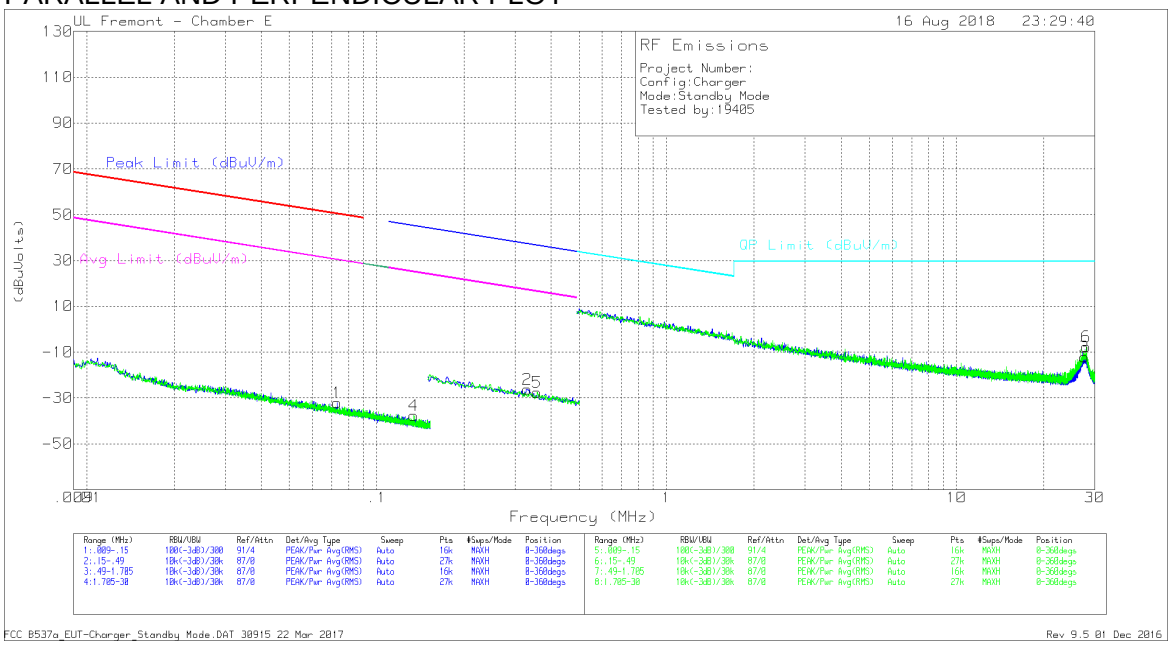
8.3. STAINLESS STEEL WITH 1M CABLE

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

STANDBY CONFIGURATION

PARALLEL AND PERPENDICULAR PLOT



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)
1	.07316	36.37	Pk	11.5	.1	-80	-32.03	50.3	-82.33	30.3	-62.33	-	-	-	-	0-360
4	.13445	31.13	Pk	11.1	.1	-80	-37.67	-	-	-	-	45.05	-82.72	25.05	-62.72	0-360
2	.33047	42.9	Pk	10.9	.1	-80	-26.1	-	-	-	-	37.23	-63.33	17.23	-43.33	0-360
5	.35803	41.35	Pk	10.9	.1	-80	-27.65	-	-	-	-	36.53	-64.18	16.53	-44.18	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	27.60946	17.17	Pk	10	.7	-40	-12.13	29.5	-41.63	0-360
6	28.06482	21.66	Pk	9.9	.8	-40	-7.64	29.5	-37.14	0-360

Pk - Peak detector

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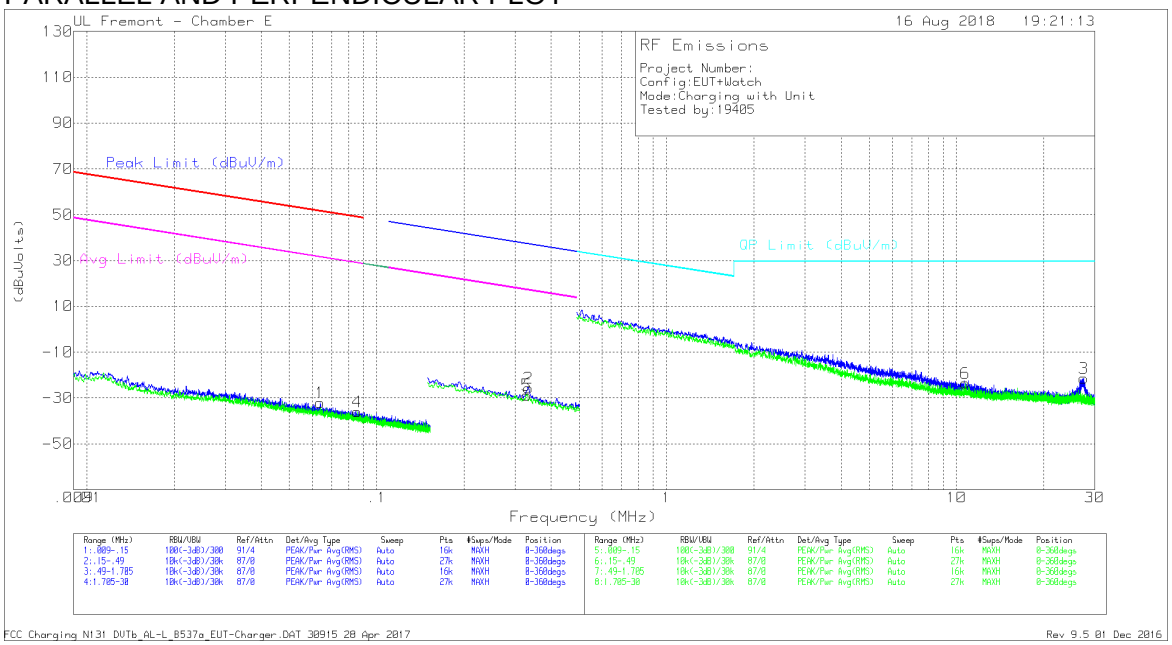
OPERATING WITH WATCH

PARALLEL AND PERPENDICULAR PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	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)
1	.06393	35.46	Pk	12.4	.1	-80	-32.04	51.47	-83.51	31.47	-63.51	-	-	-	-	0-360
4	.08555	31.96	Pk	11.9	.1	-80	-36.04	48.94	-84.98	28.94	-64.98	-	-	-	-	0-360
5	.32911	40.27	Pk	10.9	.1	-80	-28.73	-	-	-	-	37.26	-65.99	17.26	-45.99	0-360
2	.33325	43.43	Pk	10.9	.1	-80	-25.57	-	-	-	-	37.15	-62.72	17.15	-42.72	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
6	10.74714	5.16	Pk	10.9	.5	-40	-23.44	29.5	-52.94	0-360
3	27.42764	9.15	Pk	8.8	.7	-40	-21.35	29.5	-50.85	0-360

Pk - Peak detector

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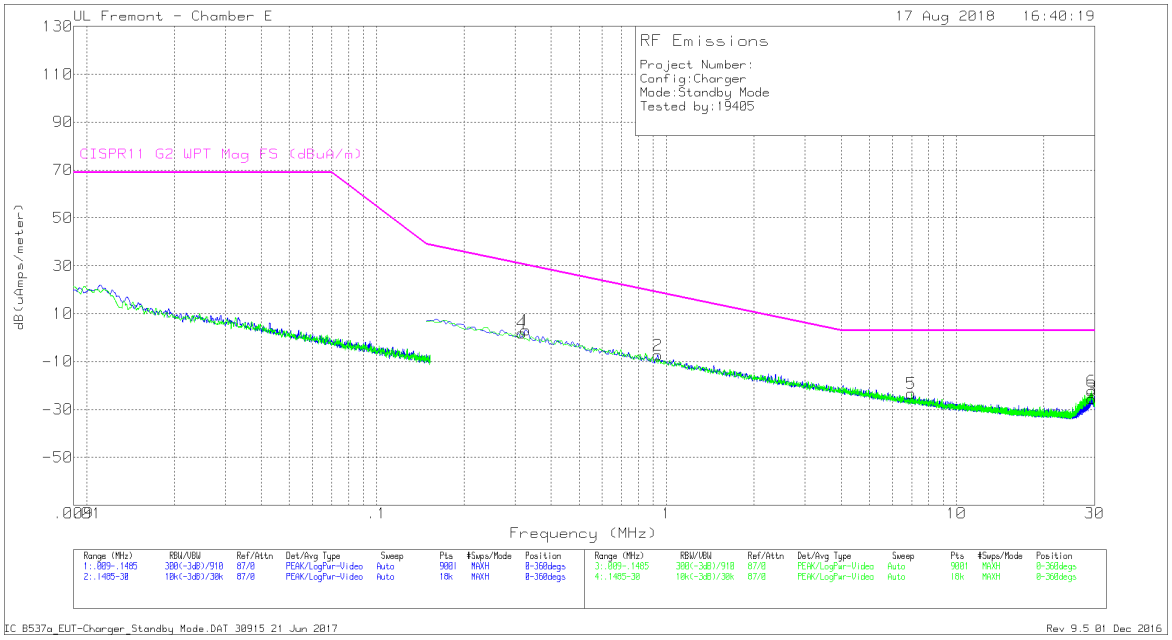
8.3.2. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

STANDBY CONFIGURATION

PARALLEL AND PERPENDICULAR PLOT



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	.31596	42.15	Pk	-40.5	.1	1.75	30.75	-29	0-360
1	.32674	43.57	Pk	-40.5	.1	3.17	30.38	-27.21	0-360
2	.93191	32.94	Pk	-40.3	.2	-7.16	18.92	-26.08	0-360
5	6.98609	16.71	Pk	-40.4	.5	-23.19	3	-26.19	0-360
3	29.27293	16.55	Pk	-43.1	1	-25.55	3	-28.55	0-360
6	29.32267	19.75	Pk	-43.1	1	-22.35	3	-25.35	0-360

Pk - Peak detector

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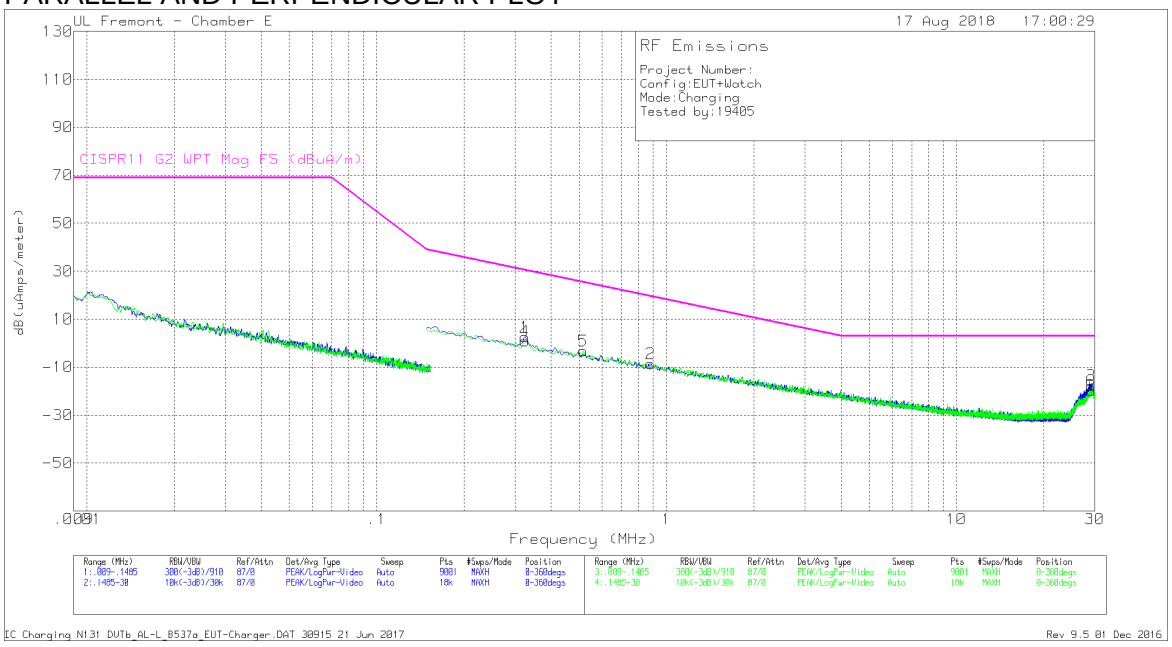
OPERATING WITH WATCH

PARALLEL AND PERPENDICULAR PLOT



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	.32508	42.91	Pk	-40.5	.1	2.51	30.44	-27.93	0-360
4	.32508	41.25	Pk	-40.5	.1	.85	30.44	-29.59	0-360
5	.51658	36.97	Pk	-40.4	.2	-3.23	25.37	-28.6	0-360
2	.88134	31.67	Pk	-40.4	.2	-8.53	19.53	-28.06	0-360
6	29.10879	22.26	Pk	-43	1	-19.74	3	-22.74	0-360
3	29.12454	24.38	Pk	-43	1	-17.62	3	-20.62	0-360

Pk - Peak detector

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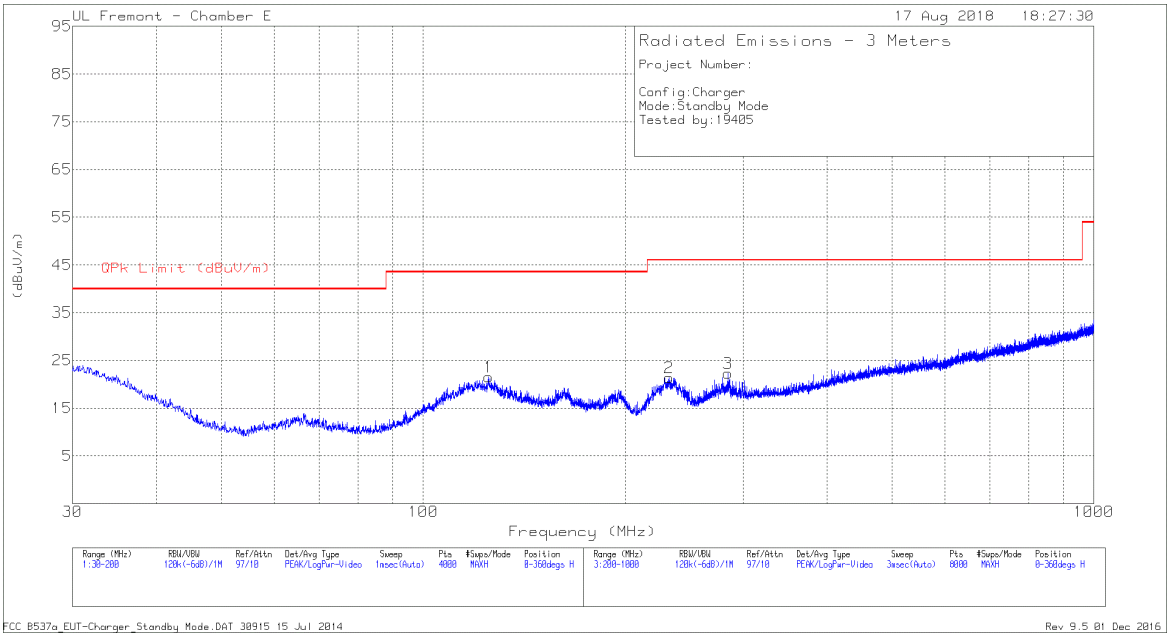
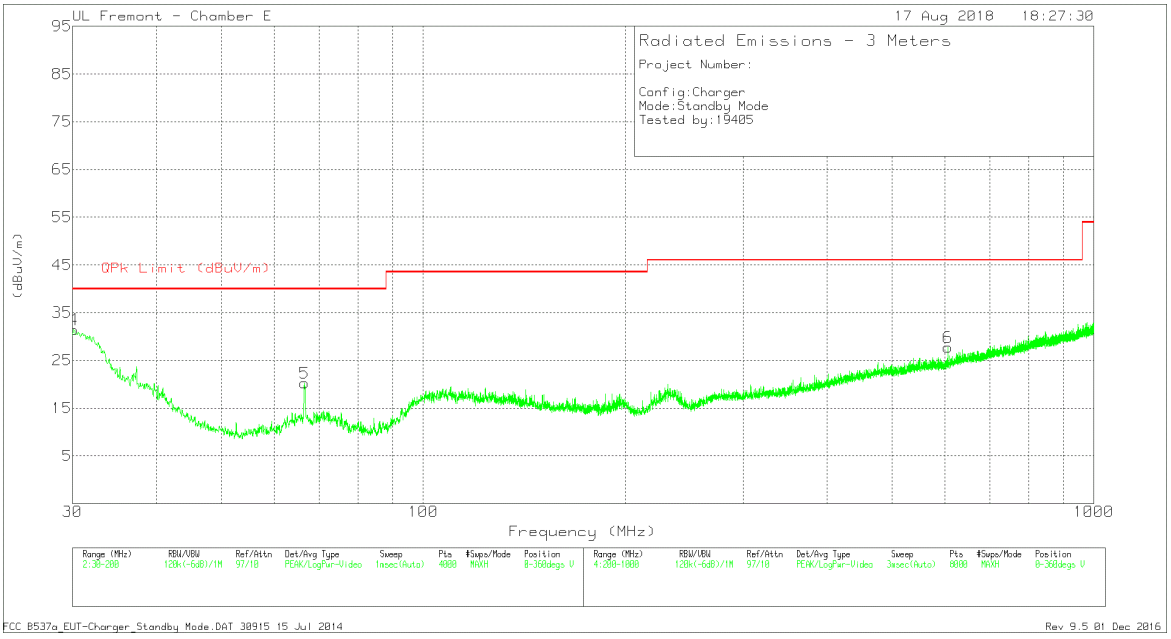
8.3.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

STANDBY CONFIGURATION

HORIZONTAL PLOT



VERTICAL PLOT



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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
1	* 125.2246	32.14	Pk	20	-30.6	21.54	43.52	-21.98	0-360	200	H
3	* 284.611	32.37	Pk	19.2	-29.3	22.27	46.02	-23.75	0-360	100	H
2	232.6042	33.99	Pk	17.1	-29.7	21.39	46.02	-24.63	0-360	100	H
4	30.1063	36.4	Pk	26.7	-31.6	31.5	40	-8.5	0-360	100	V
6	606.3528	30.67	Pk	24.6	-27.5	27.77	46.02	-18.25	0-360	100	V
5	66.5595	37.22	Pk	14.2	-31.1	20.32	40	-19.68	0-360	100	V

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

Pk - Peak detector

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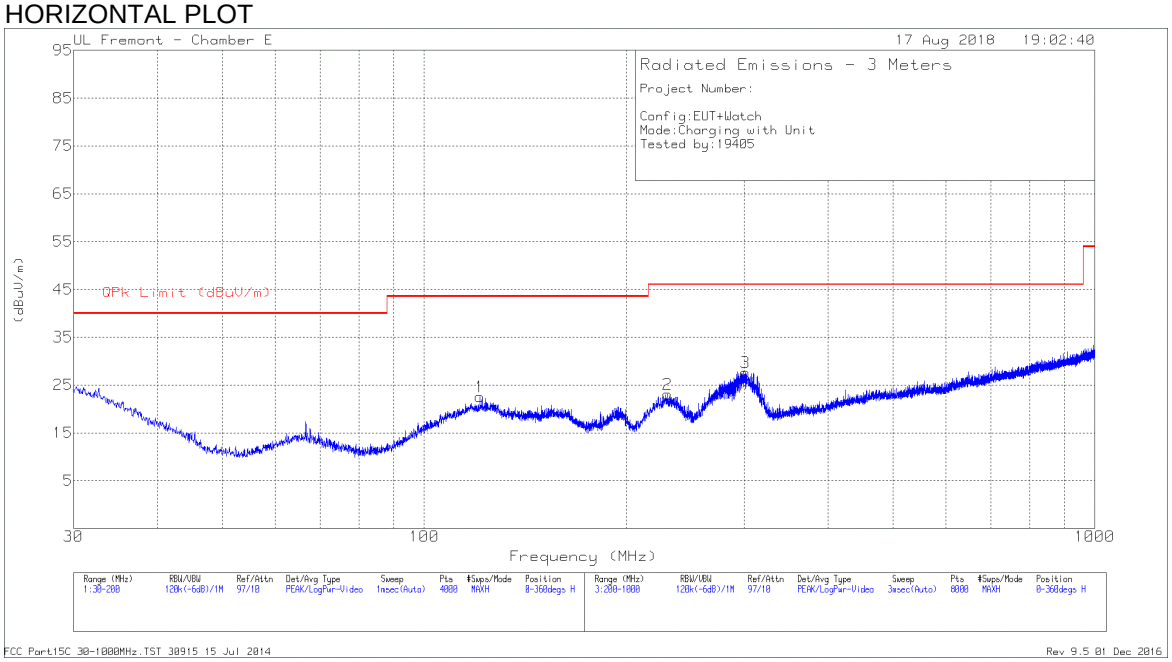
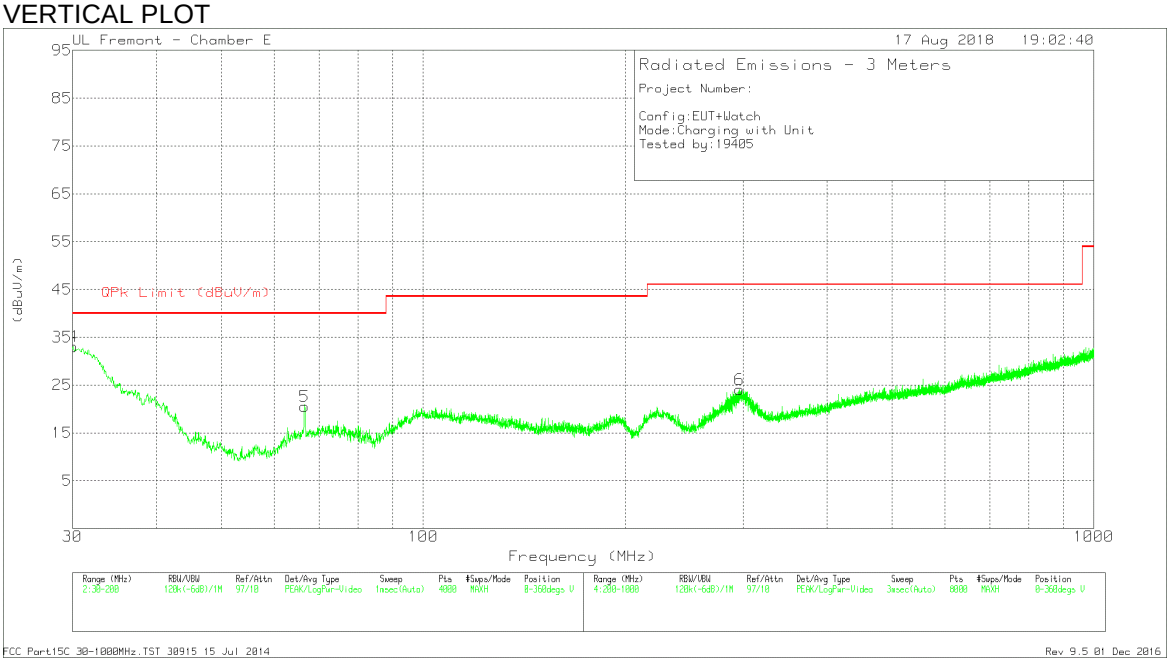
OPERATING WITH WATCH

HORIZONTAL PLOT



VERTICAL PLOT



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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
1	* 121.1011	33.14	Pk	20	-30.6	22.54	43.52	-20.98	0-360	200	H
2	230.804	35.71	Pk	17	-29.7	23.01	46.02	-23.01	0-360	100	H
6	296.4125	34.11	Pk	19.2	-29.2	24.11	46.02	-21.91	0-360	100	V
4	30.0425	37.93	Pk	26.7	-31.6	33.03	40	-6.97	0-360	100	V
3	301.4132	37.59	Pk	19.3	-29.2	27.69	46.02	-18.33	0-360	100	H
5	66.602	37.46	Pk	14.2	-31.1	20.56	40	-19.44	0-360	100	V

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

Pk - Peak detector

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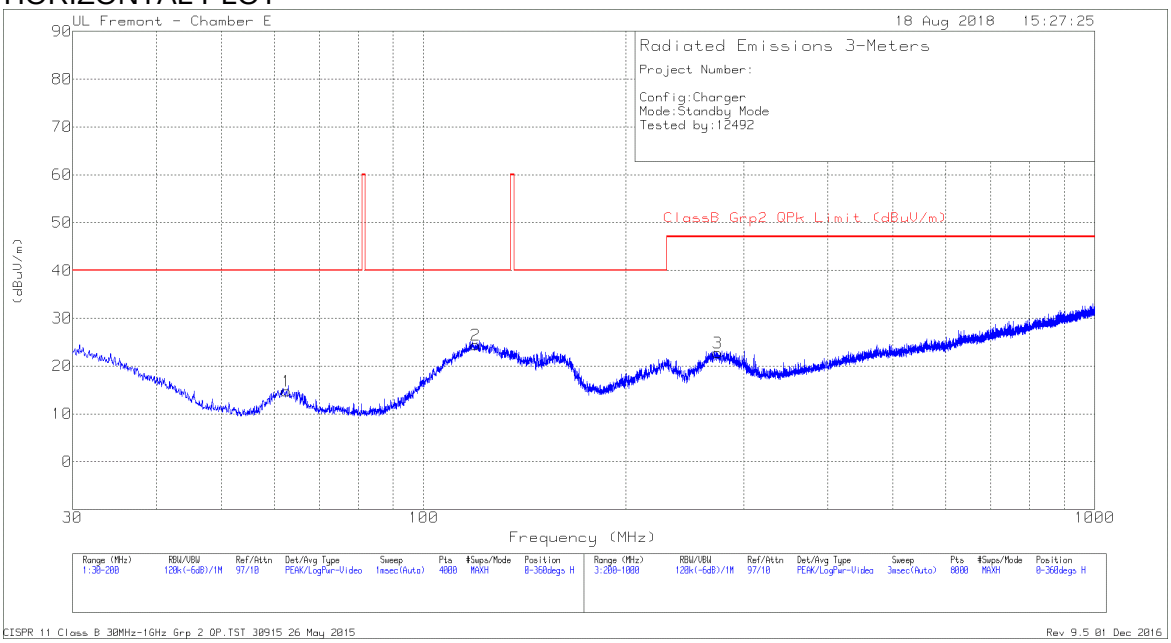
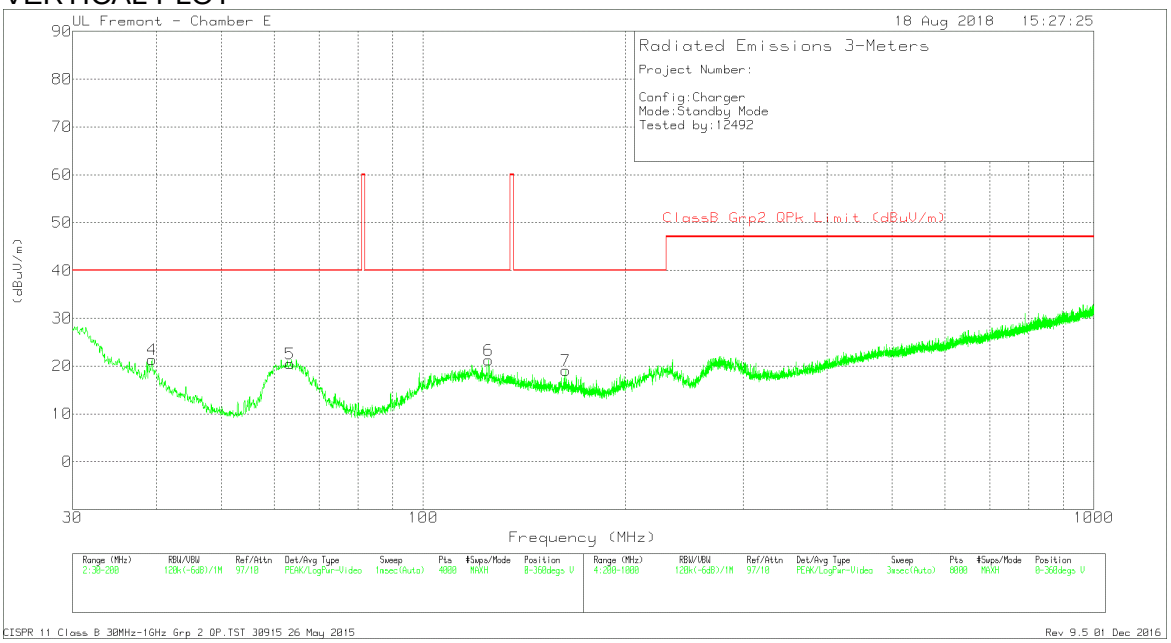
8.3.4. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz

STANDBY CONFIGURATION

HORIZONTAL PLOT



VERTICAL PLOT



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DATA

Marker	Frequency (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	39.3949	32.15	Pk	20.7	-31.5	21.35	40	-18.65	0-360	100	V
1	62.4784	31.71	Pk	14.2	-31.2	14.71	40	-25.29	0-360	300	H
5	63.2861	37.32	Pk	14.2	-31.1	20.42	40	-19.58	0-360	100	V
2	119.6132	34.99	Pk	20	-30.6	24.39	40	-15.61	0-360	300	H
6	125.2672	31.81	Pk	20	-30.6	21.21	40	-18.79	0-360	100	V
7	163.272	31.2	Pk	18.1	-30.2	19.1	40	-20.9	0-360	100	V
3	274.2096	32.93	Pk	19.2	-29.4	22.73	47	-24.27	0-360	100	H

Pk - Peak detector

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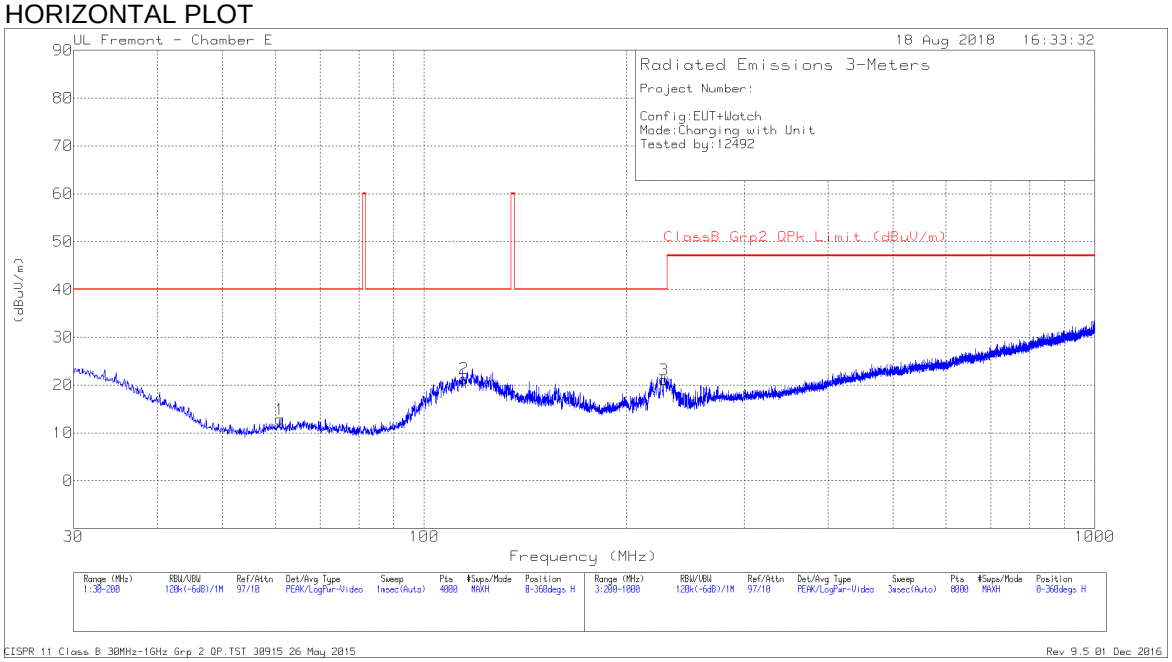
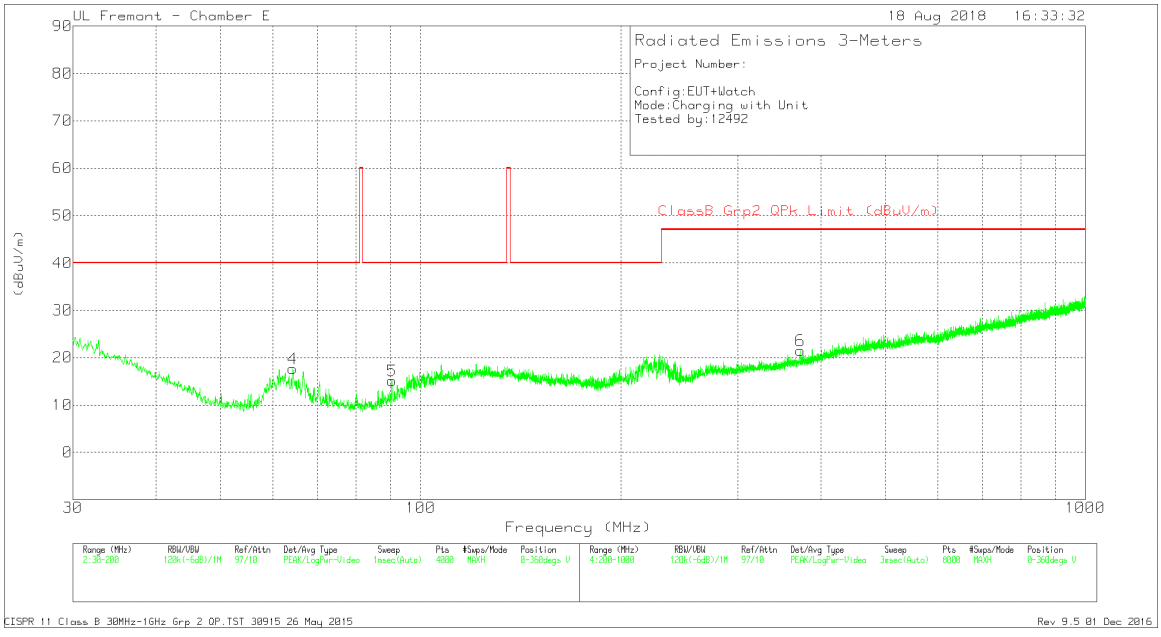
OPERATING WITH WATCH

HORIZONTAL PLOT



VERTICAL PLOT



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DATA

Marker	Frequency (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
1	60.9055	29.9	Pk	14.1	-31.2	12.8	40	-27.2	0-360	99	H
4	64.2214	34.47	Pk	14.3	-31.1	17.67	40	-22.33	0-360	100	V
5	90.5144	31.9	Pk	14.2	-30.9	15.2	40	-24.8	0-360	100	V
2	114.7669	32.2	Pk	19.7	-30.6	21.3	40	-18.7	0-360	300	H
3	227.7036	34.02	Pk	16.8	-29.7	21.12	40	-18.88	0-360	100	H
6	372.7225	29.45	Pk	20.8	-28.7	21.55	47	-25.45	0-360	100	V

Pk - Peak detector

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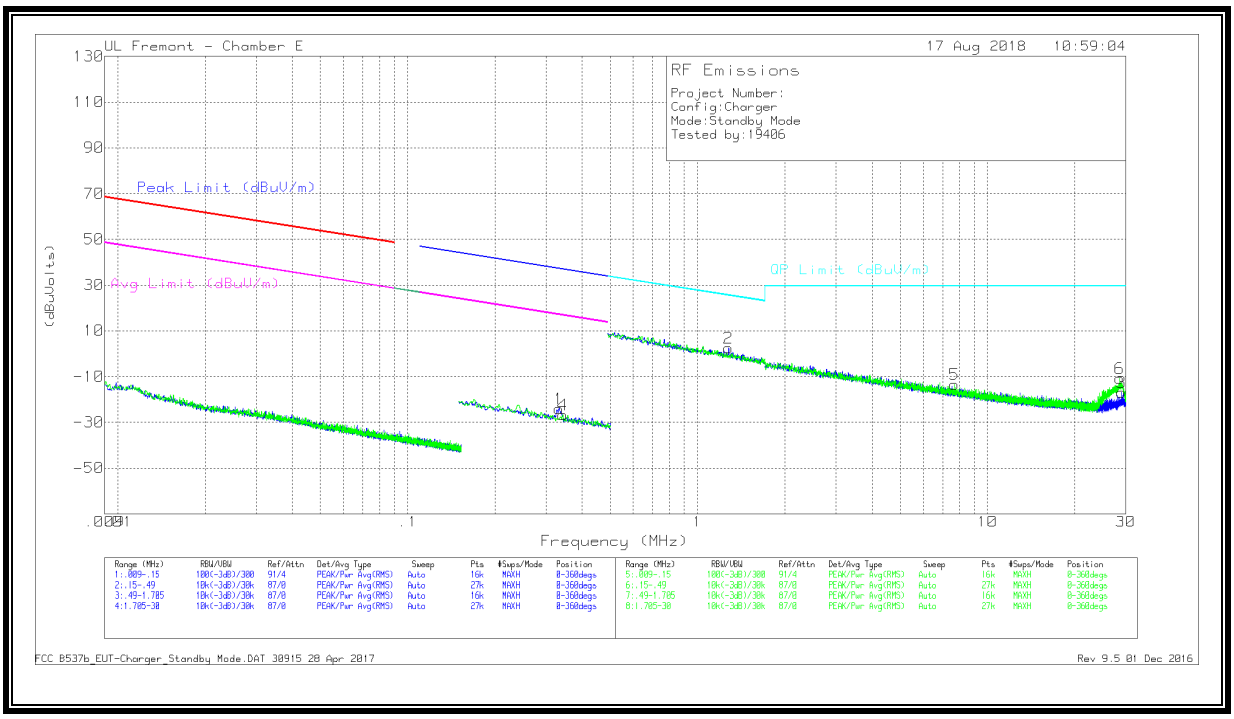
8.4. STAINLESS STEEL WITH 2M CABLE

8.4.1. 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)
1	.33181	44.24	Pk	11.5	.1	-80	-24.16	37.19	-61.35	17.19	-41.35	0-360
4	.34291	41.6	Pk	11.5	.1	-80	-26.8	36.91	-63.71	16.91	-43.71	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)
2	1.27953	30.64	Pk	11.6	.2	-40	2.44	25.49	-23.05	0-360
5	7.68803	15.01	Pk	11	.5	-40	-13.49	29.5	-42.99	0-360
6	28.60873	19.94	Pk	8.2	1	-40	-10.86	29.5	-40.36	0-360
3	29.02164	13.94	Pk	8.1	1	-40	-16.96	29.5	-46.46	0-360

Pk - Peak detector

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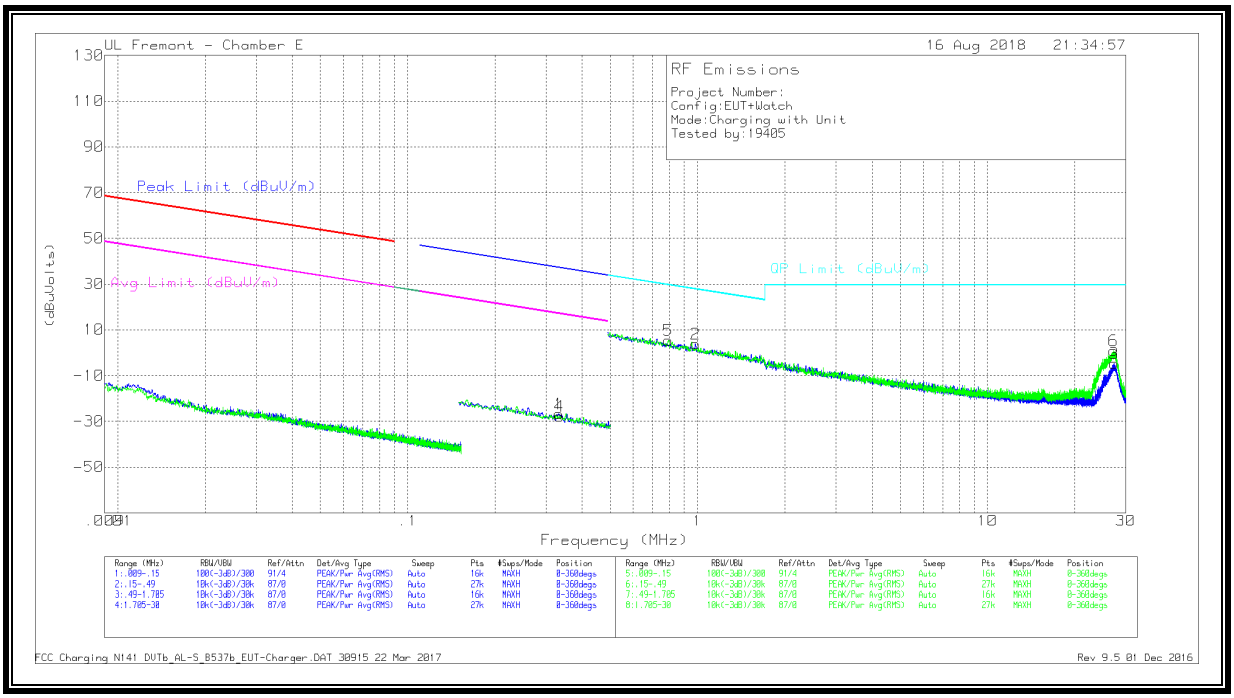
OPERATING WITH WATCH



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)
1	.33249	42.15	Pk	10.9	.1	-80	-26.85	37.17	-64.02	17.17	-44.02	0-360
4	.33401	41.32	Pk	10.9	.1	-80	-27.68	37.13	-64.81	17.13	-44.81	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)
5	.79248	34.38	Pk	11	.1	-40	5.48	29.64	-24.16	0-360
2	.98335	32.44	Pk	11.3	.2	-40	3.94	27.77	-23.83	0-360
6	27.20546	29.99	Pk	10.1	.7	-40	.79	29.5	-28.71	0-360
3	27.3548	24.56	Pk	10	.7	-40	-4.74	29.5	-34.24	0-360

Pk - Peak detector

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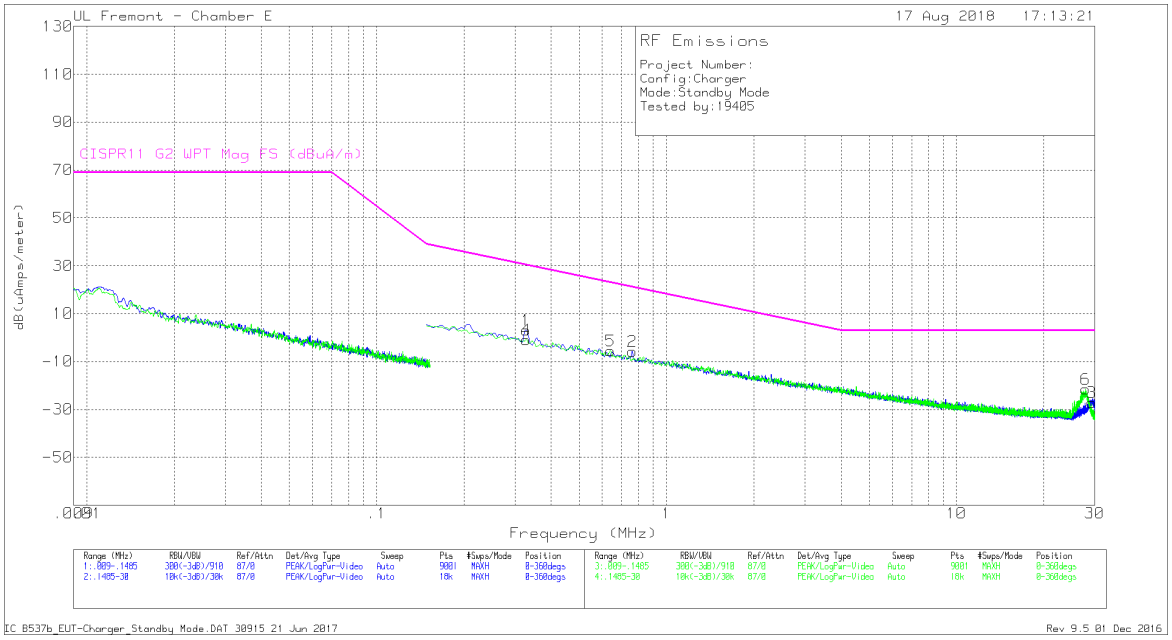
8.4.2. IC / CISPR 11 TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 kHz TO 30 MHz

STANDBY CONFIGURATION

PARALLEL AND PERPENDICULAR PLOT



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	.32756	43.47	Pk	-40.5	.1	3.07	30.35	-27.28	0-360
4	.32756	39.51	Pk	-40.5	.1	-.89	30.35	-31.24	0-360
5	.63927	34.73	Pk	-40.4	.2	-5.47	23.04	-28.51	0-360
2	.7603	34.45	Pk	-40.4	.2	-5.75	21.15	-26.9	0-360
6	27.83876	20.26	Pk	-42.7	.9	-21.54	3	-24.54	0-360
3	29.26961	15.1	Pk	-43.1	1	-27	3	-30	0-360

Pk - Peak detector

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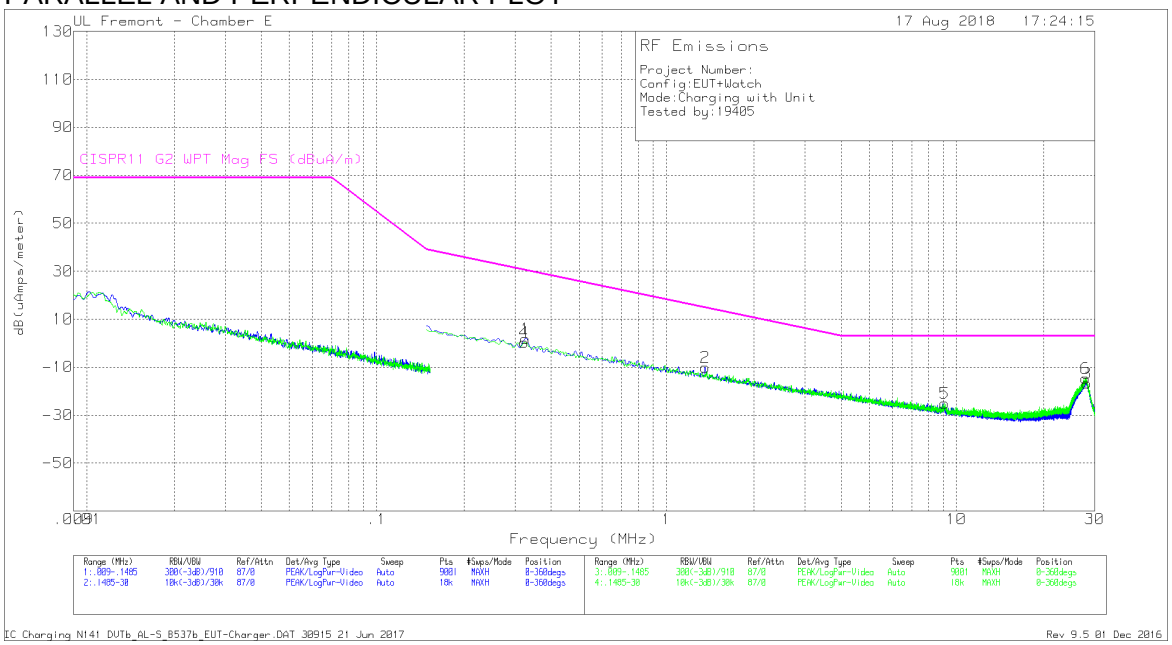
OPERATING WITH WATCH

PARALLEL AND PERPENDICULAR PLOT



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	.32259	40.8	Pk	-40.5	.1	.4	30.52	-30.12	0-360
1	.32591	42.35	Pk	-40.5	.1	1.95	30.41	-28.46	0-360
2	1.35718	29.94	Pk	-40.2	.2	-10.06	14.81	-24.87	0-360
5	9.09341	15.36	Pk	-40.8	.5	-24.94	3	-27.94	0-360
6	27.88684	27.18	Pk	-42.7	.9	-14.62	3	-17.62	0-360
3	28.15046	24.94	Pk	-42.7	1	-16.76	3	-19.76	0-360

Pk - Peak detector

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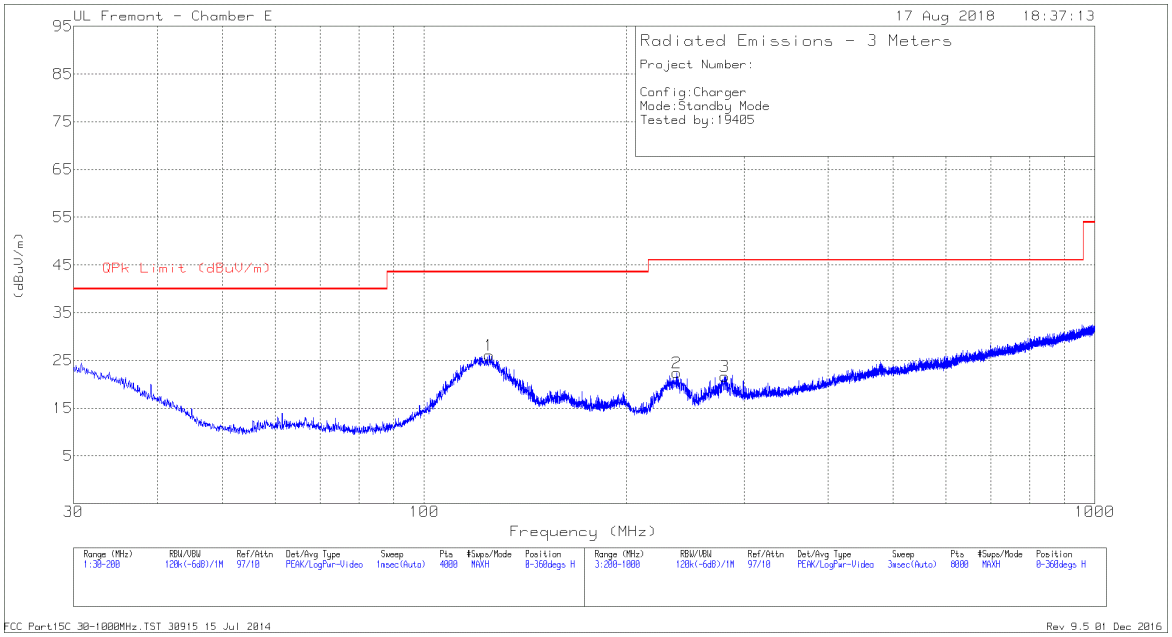
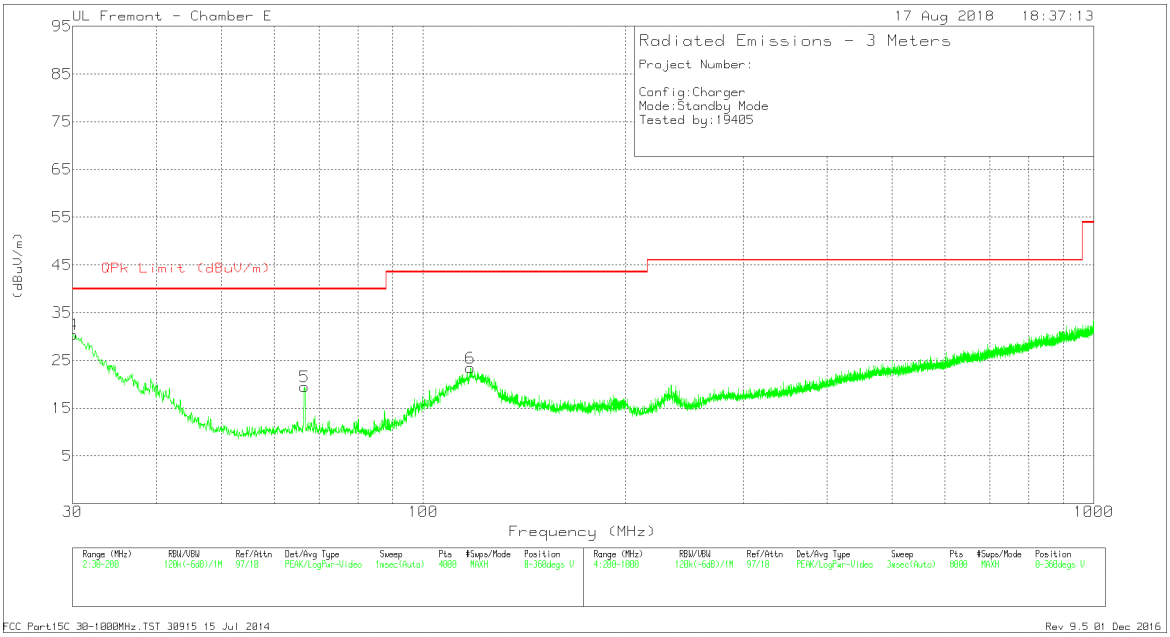
8.4.3. FCC TX SPURIOUS EMISSION 30 TO 1000 MHz

STANDBY CONFIGURATION

HORIZONTAL PLOT



VERTICAL PLOT



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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
6	* 117.7002	34.19	Pk	19.9	-30.6	23.49	43.52	-20.03	0-360	100	V
1	* 125.0546	36.66	Pk	20	-30.6	26.06	43.52	-17.46	0-360	200	H
3	* 280.9105	31.66	Pk	19.3	-29.3	21.66	46.02	-24.36	0-360	100	H
2	238.155	34.78	Pk	17.3	-29.7	22.38	46.02	-23.64	0-360	100	H
4	30.0425	35.37	Pk	26.7	-31.6	30.47	40	-9.53	0-360	100	V
5	66.602	36.36	Pk	14.2	-31.1	19.46	40	-20.54	0-360	100	V

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

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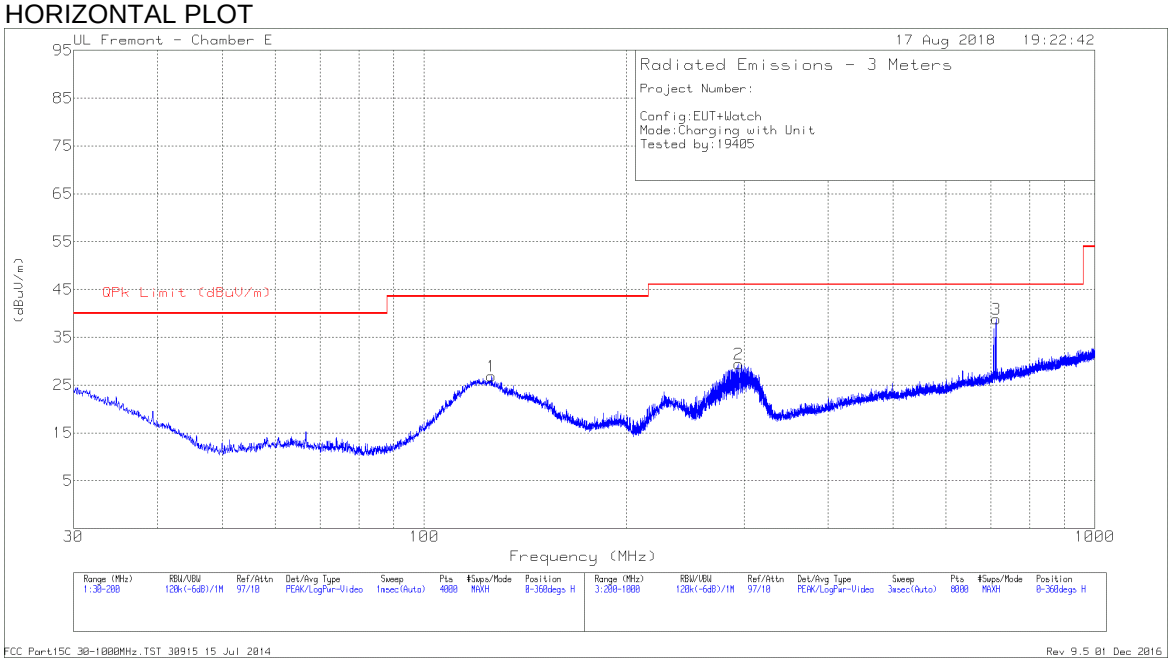
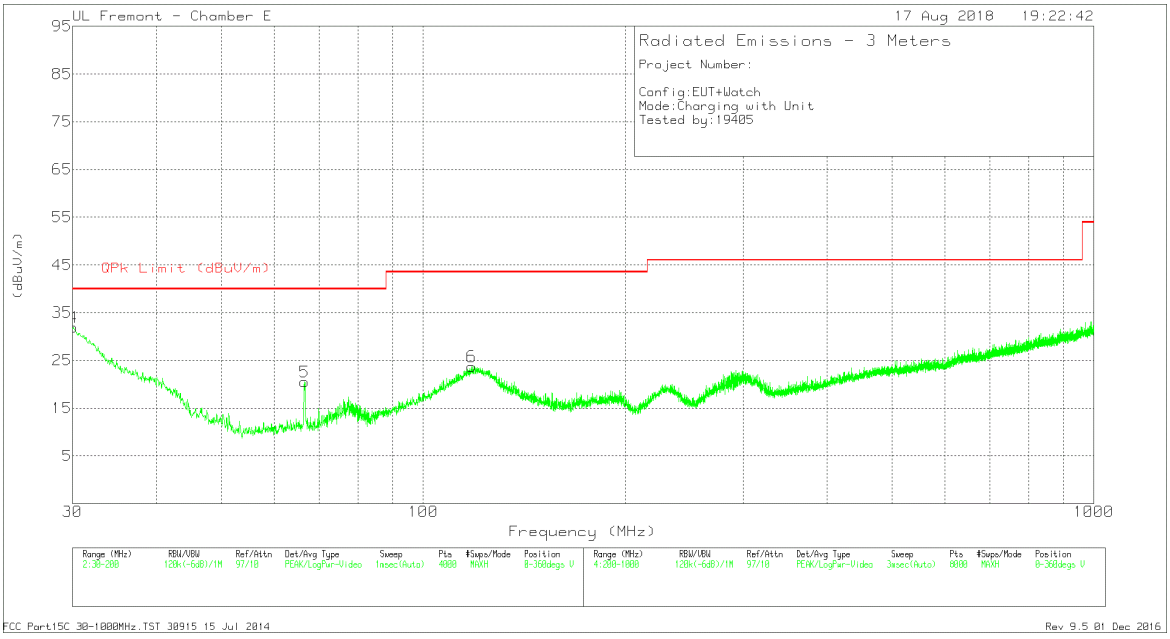
OPERATING WITH WATCH

HORIZONTAL PLOT



VERTICAL PLOT



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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
6	* 118.1678	34.46	Pk	19.9	-30.6	23.76	43.52	-19.76	0-360	100	V
1	* 126.0536	37.35	Pk	20	-30.5	26.85	43.52	-16.67	0-360	200	H
2	294.5123	39.41	Pk	19.2	-29.2	29.41	46.02	-16.61	0-360	100	H
4	30.085	36.86	Pk	26.7	-31.6	31.96	40	-8.04	0-360	100	V
5	66.602	37.45	Pk	14.2	-31.1	20.55	40	-19.45	0-360	100	V
3	712.6666	39.47	Pk	26.3	-27	38.77	46.02	-7.25	0-360	300	H

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

Pk - Peak detector

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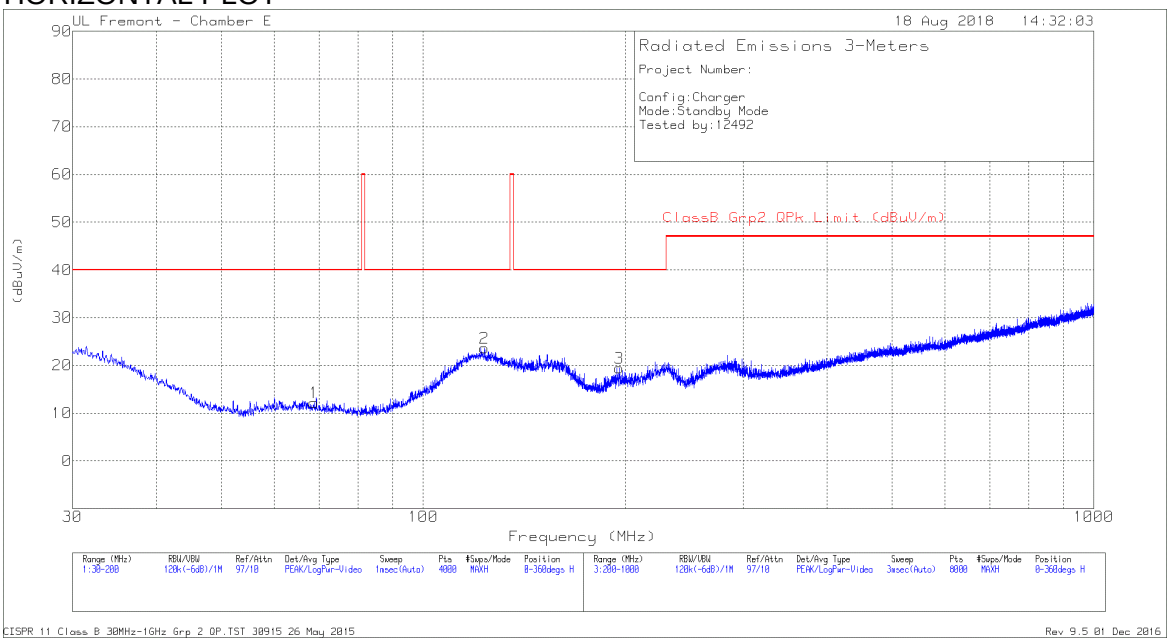
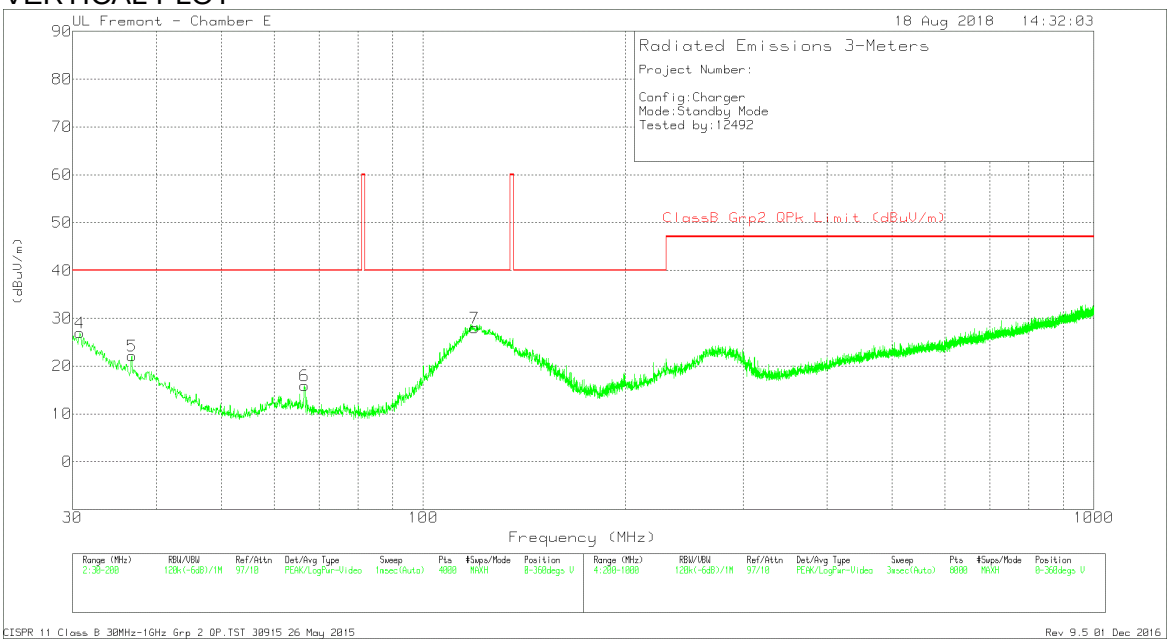
8.4.4. IC / CISPR 11 TX SPURIOUS EMISSION 30 TO 1000 MHz

STANDBY CONFIGURATION

HORIZONTAL PLOT



VERTICAL PLOT



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DATA

Marker	Frequency (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	30.7652	32.07	Pk	26.5	-31.6	26.97	40	-13.03	0-360	100	V
5	36.7592	30.97	Pk	22.6	-31.5	22.07	40	-17.93	0-360	100	V
6	66.602	32.75	Pk	14.2	-31.1	15.85	40	-24.15	0-360	100	V
1	68.7275	29.12	Pk	14.2	-31.1	12.22	40	-27.78	0-360	200	H
7	119.3156	38.61	Pk	19.9	-30.6	27.91	40	-12.09	0-360	100	V
2	123.4817	34.3	Pk	20	-30.6	23.7	40	-16.3	0-360	200	H
3	196.0055	31.22	Pk	18.2	-30	19.42	40	-20.58	0-360	99	H

Pk - Peak detector

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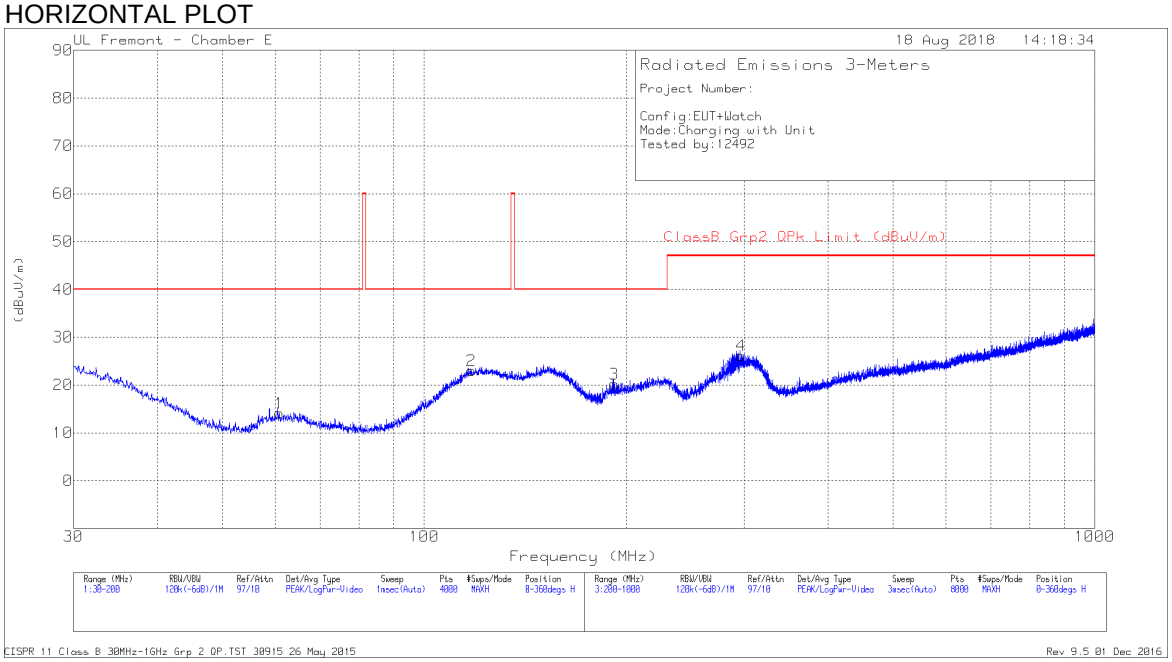
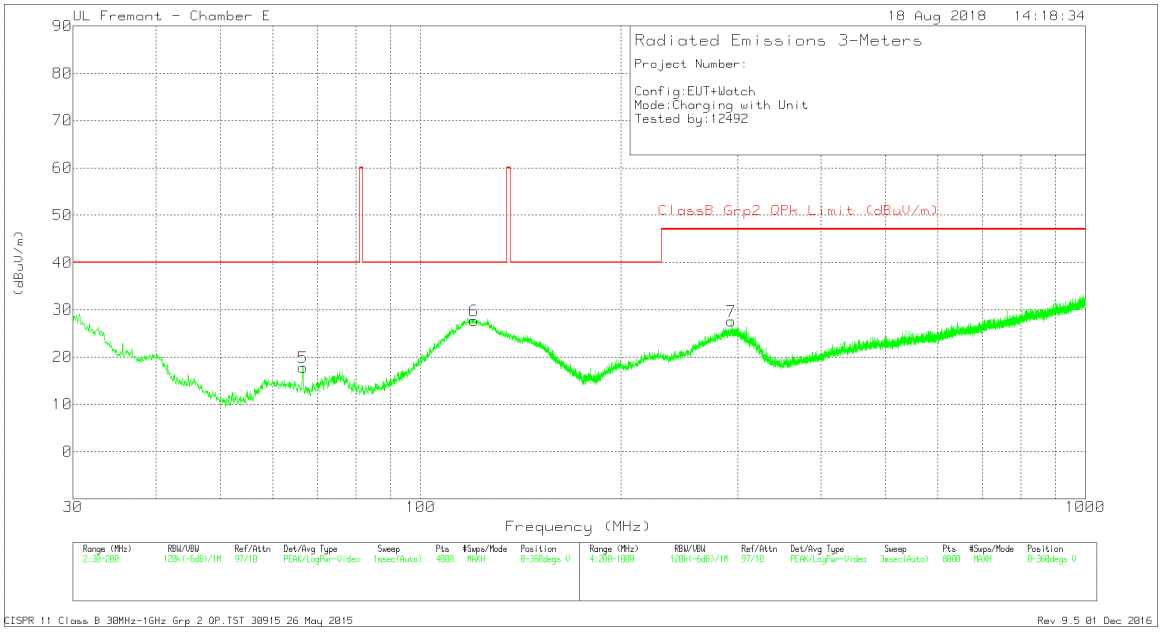
OPERATING WITH WATCH

HORIZONTAL PLOT



VERTICAL PLOT



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DATA

Marker	Frequency (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
1	60.778	31.18	Pk	14.1	-31.2	14.08	40	-25.92	0-360	299	H
5	66.602	34.66	Pk	14.2	-31.1	17.76	40	-22.24	0-360	100	V
2	117.7002	33.69	Pk	19.9	-30.6	22.99	40	-17.01	0-360	200	H
6	120.3146	38.35	Pk	20	-30.6	27.75	40	-12.25	0-360	100	V
3	192.1795	32.52	Pk	17.6	-29.9	20.22	40	-19.78	0-360	99	H
7	293.2121	37.58	Pk	19.2	-29.2	27.58	47	-19.42	0-360	101	V
4	296.8126	36.24	Pk	19.2	-29.2	26.24	47	-20.76	0-360	100	H

Pk - Peak detector

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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

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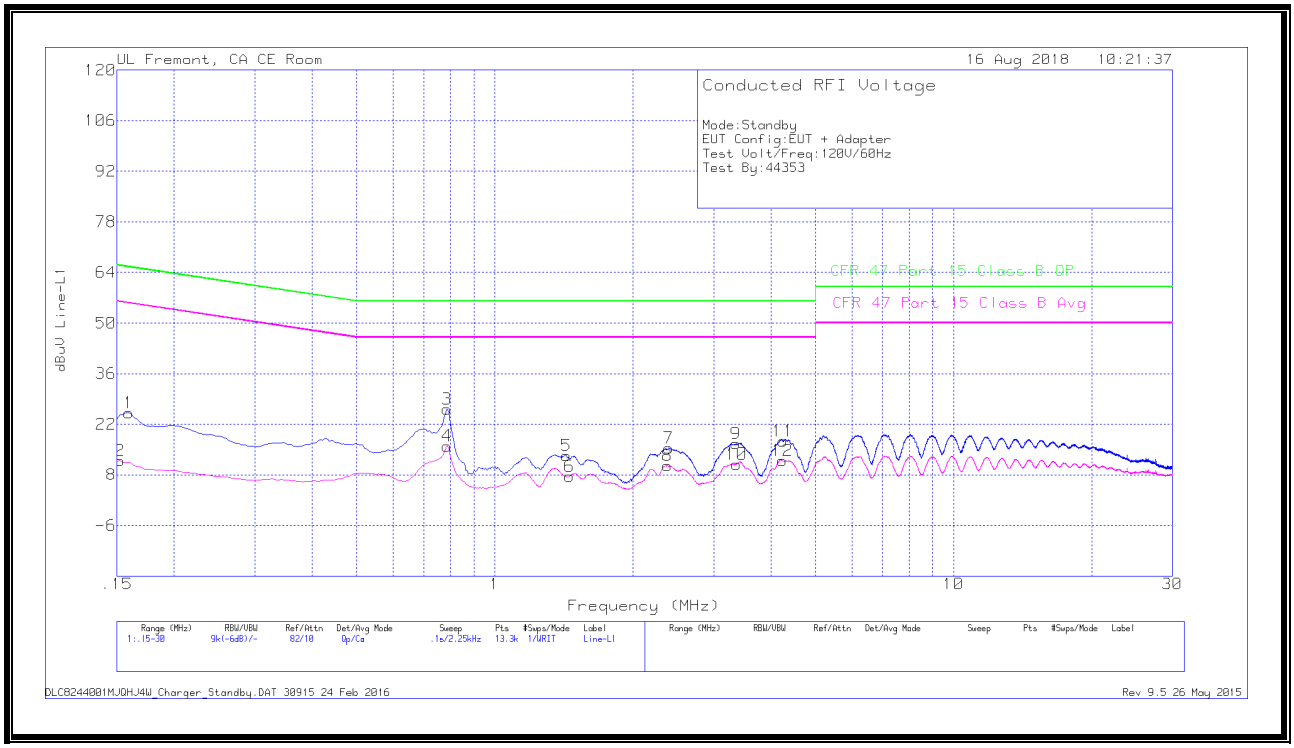
9.1. STAINLESS STEEL WITH 0.3M CABLE

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	.159	14.88	Qp	.1	0	10.1	25.08	65.52	-40.44	-	-
2	.15225	1.79	Ca	.1	0	10.1	11.99	-	-	55.88	-43.89
3	.78675	16.03	Qp	0	0	10.1	26.13	56	-29.87	-	-
4	.78675	5.91	Ca	0	0	10.1	16.01	-	-	46	-29.99
5	1.43025	3.2	Qp	0	.1	10.1	13.4	56	-42.6	-	-
6	1.45275	-2.68	Ca	0	.1	10.1	7.52	-	-	46	-38.48
7	2.39325	5.24	Qp	0	.1	10.1	15.44	56	-40.56	-	-
8	2.38088	.32	Ca	0	.1	10.1	10.52	-	-	46	-35.48
9	3.35175	6.46	Qp	0	.1	10.1	16.66	56	-39.34	-	-
10	3.36525	.77	Ca	0	.1	10.1	10.97	-	-	46	-35.03
11	4.254	7.12	Qp	0	.1	10.1	17.32	56	-38.68	-	-
12	4.23713	1.69	Ca	0	.1	10.1	11.89	-	-	46	-34.11

Qp - Quasi-Peak detector

Ca - CISPR average detection

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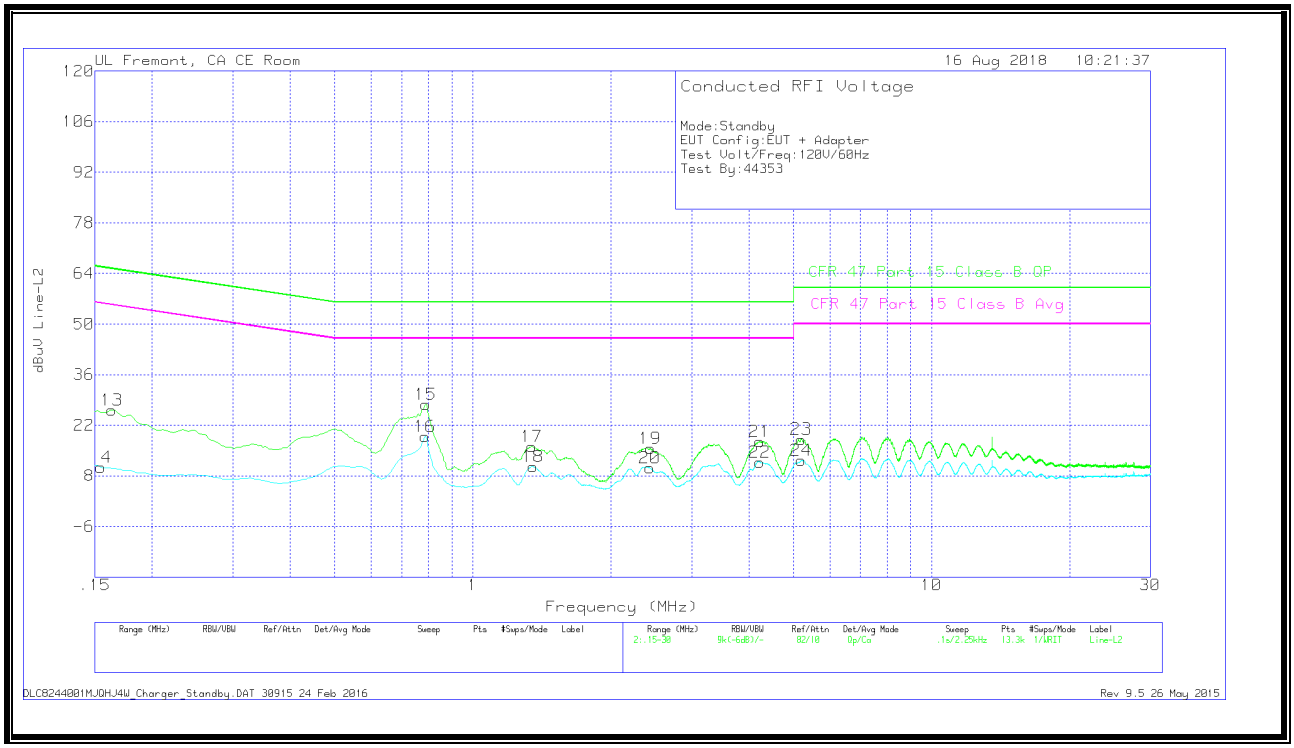
LINE 2 RESULTS



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	.1635	15.94	Qp	.1	0	10.1	26.14	65.28	-39.14	-	-
14	.1545	.18	Ca	.1	0	10.1	10.38	-	-	55.75	-45.37
15	.789	17.72	Qp	0	0	10.1	27.82	56	-28.18	-	-
16	.78675	8.81	Ca	0	0	10.1	18.91	-	-	46	-27.09
17	1.34475	5.95	Qp	0	.1	10.1	16.15	56	-39.85	-	-
18	1.3515	.33	Ca	0	.1	10.1	10.53	-	-	46	-35.47
19	2.436	5.35	Qp	0	.1	10.1	15.55	56	-40.45	-	-
20	2.42925	-.04	Ca	0	.1	10.1	10.16	-	-	46	-35.84
21	4.22588	7.26	Qp	0	.1	10.1	17.46	56	-38.54	-	-
22	4.22475	1.62	Ca	0	.1	10.1	11.82	-	-	46	-34.18
23	5.19225	7.9	Qp	0	.1	10.1	18.1	60	-41.9	-	-
24	5.19225	2	Ca	0	.1	10.1	12.2	-	-	50	-37.8

Qp - Quasi-Peak detector

Ca - CISPR average detection

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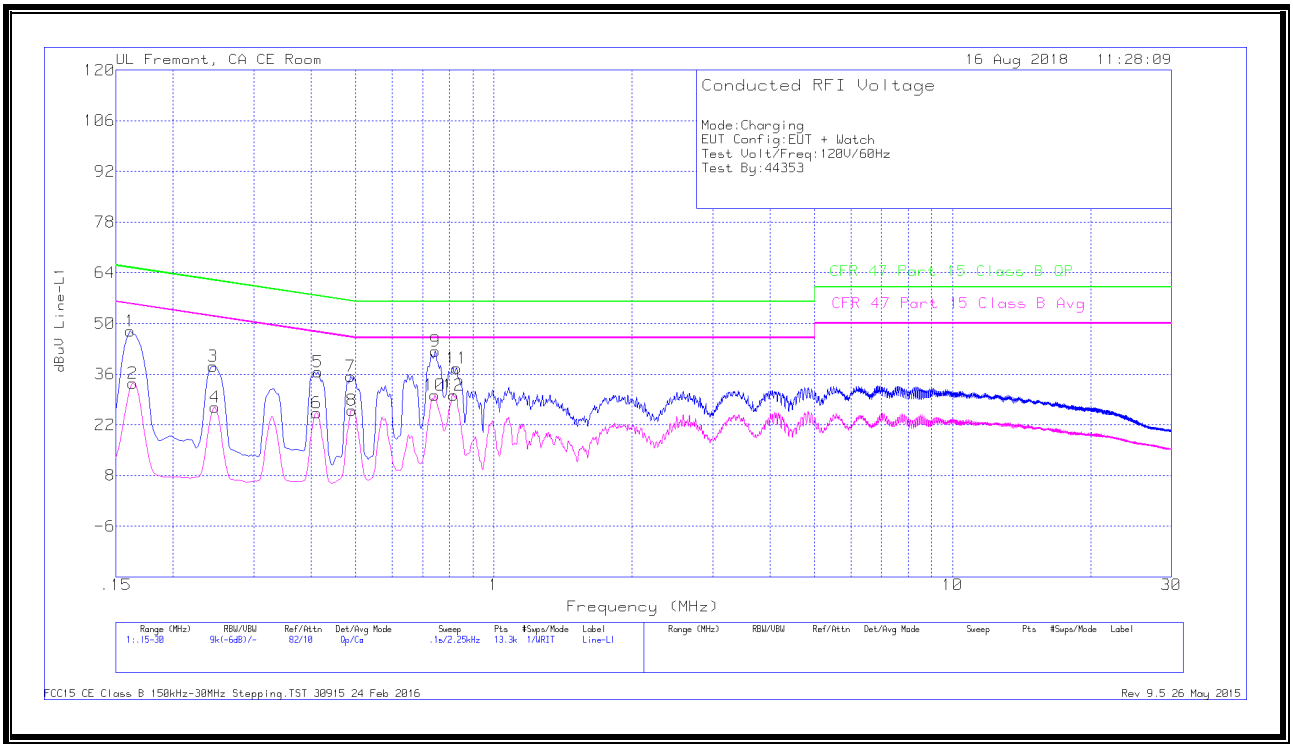
9.1.2. OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER

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	.16125	37.64	Qp	.1	0	10.1	47.84	65.4	-17.56	-	-
2	.1635	23.29	Ca	.1	0	10.1	33.49	-	-	55.28	-21.79
3	.2445	28.11	Qp	0	0	10.1	38.21	61.94	-23.73	-	-
4	.24675	16.81	Ca	0	0	10.1	26.91	-	-	51.87	-24.96
5	.41325	26.51	Qp	0	0	10.1	36.61	57.58	-20.97	-	-
6	.411	15.22	Ca	0	0	10.1	25.32	-	-	47.63	-22.31
7	.4875	25.32	Qp	0	0	10.1	35.42	56.21	-20.79	-	-
8	.48975	15.95	Ca	0	0	10.1	26.05	-	-	46.17	-20.12
9	.74625	32.22	Qp	0	0	10.1	42.32	56	-13.68	-	-
10	.744	20.07	Ca	0	0	10.1	30.17	-	-	46	-15.83
11	.8295	27.61	Qp	0	0	10.1	37.71	56	-18.29	-	-
12	.81825	20.12	Ca	0	0	10.1	30.22	-	-	46	-15.78

Qp - Quasi-Peak detector

Ca - CISPR average detection

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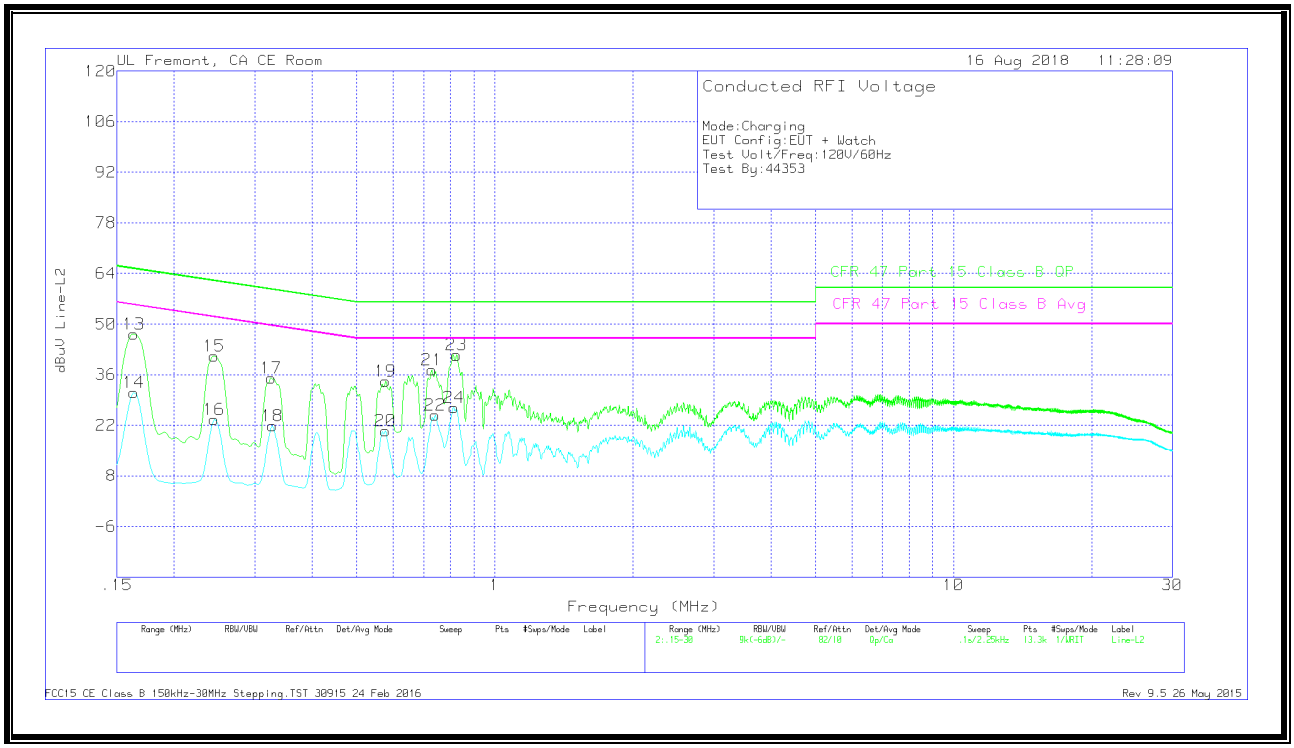
LINE 2 RESULTS



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	.1635	37.07	Qp	.1	0	10.1	47.27	65.28	-18.01	-	-
14	.1635	20.83	Ca	.1	0	10.1	31.03	-	-	55.28	-24.25
15	.2445	31.02	Qp	0	0	10.1	41.12	61.94	-20.82	-	-
16	.2445	13.47	Ca	0	0	10.1	23.57	-	-	51.94	-28.37
17	.3255	24.89	Qp	0	0	10.1	34.99	59.57	-24.58	-	-
18	.32775	11.73	Ca	0	0	10.1	21.83	-	-	49.51	-27.68
19	.5775	24.12	Qp	0	0	10.1	34.22	56	-21.78	-	-
20	.5775	10.36	Ca	0	0	10.1	20.46	-	-	46	-25.54
21	.7305	27.15	Qp	0	0	10.1	37.25	56	-18.75	-	-
22	.74175	14.71	Ca	0	0	10.1	24.81	-	-	46	-21.19
23	.825	31.3	Qp	0	0	10.1	41.4	56	-14.6	-	-
24	.81375	16.71	Ca	0	0	10.1	26.81	-	-	46	-19.19

Qp - Quasi-Peak detector

Ca - CISPR average detection

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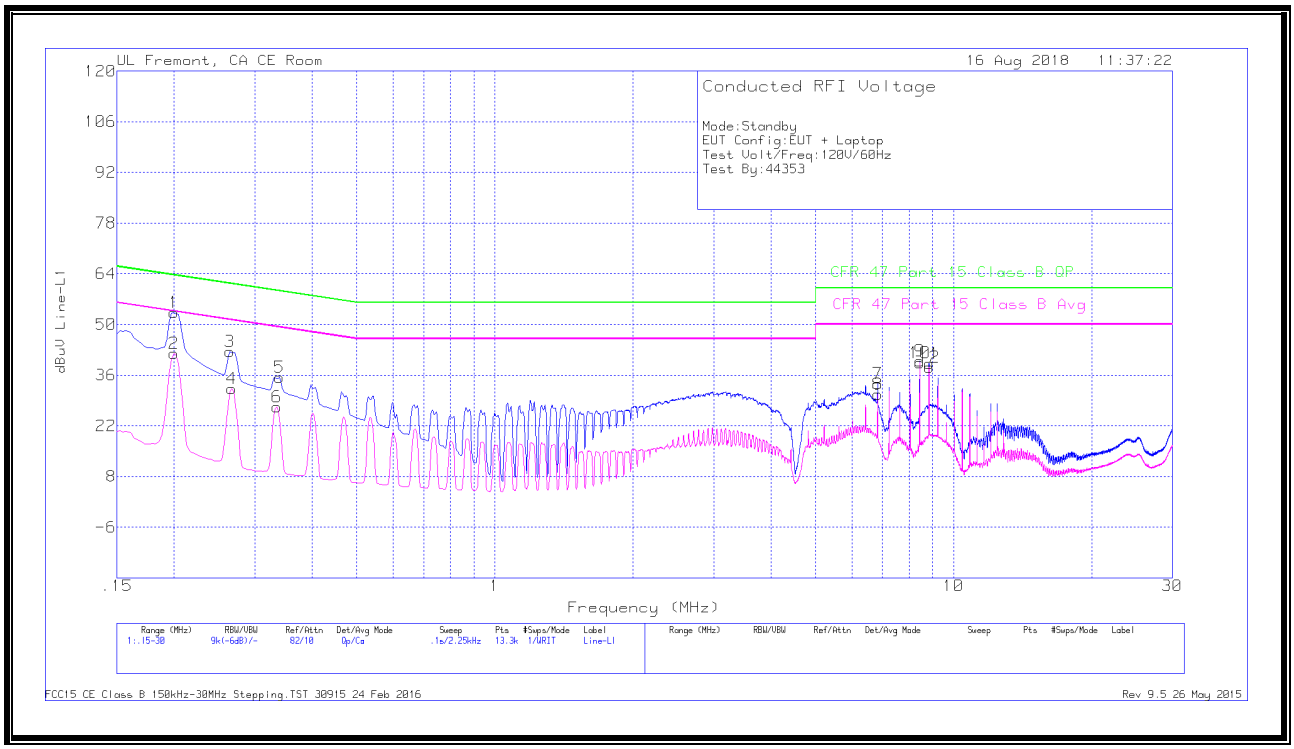
9.1.3. STANDBY MODE POWERED BY HOST PC VIA USB CABLE

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	.1995	43.28	Qp	0	0	10.1	53.38	63.63	-10.25	-	-
2	.1995	31.91	Ca	0	0	10.1	42.01	-	-	53.63	-11.62
3	.26475	32.46	Qp	0	0	10.1	42.56	61.28	-18.72	-	-
4	.267	22.24	Ca	0	0	10.1	32.34	-	-	51.21	-18.87
5	.339	25.22	Qp	0	0	10.1	35.32	59.23	-23.91	-	-
6	.3345	17.05	Ca	0	0	10.1	27.15	-	-	49.34	-22.19
7	6.8325	23.25	Qp	0	.2	10.2	33.65	60	-26.35	-	-
8	6.8325	20.27	Ca	0	.2	10.2	30.67	-	-	50	-19.33
9	8.439	29.47	Qp	0	.2	10.2	39.87	60	-20.13	-	-
10	8.439	29.04	Ca	0	.2	10.2	39.44	-	-	50	-10.56
11	8.84175	28.89	Qp	0	.2	10.2	39.29	60	-20.71	-	-
12	8.84175	27.85	Ca	0	.2	10.2	38.25	-	-	50	-11.75

Qp - Quasi-Peak detector

Ca - CISPR average detection

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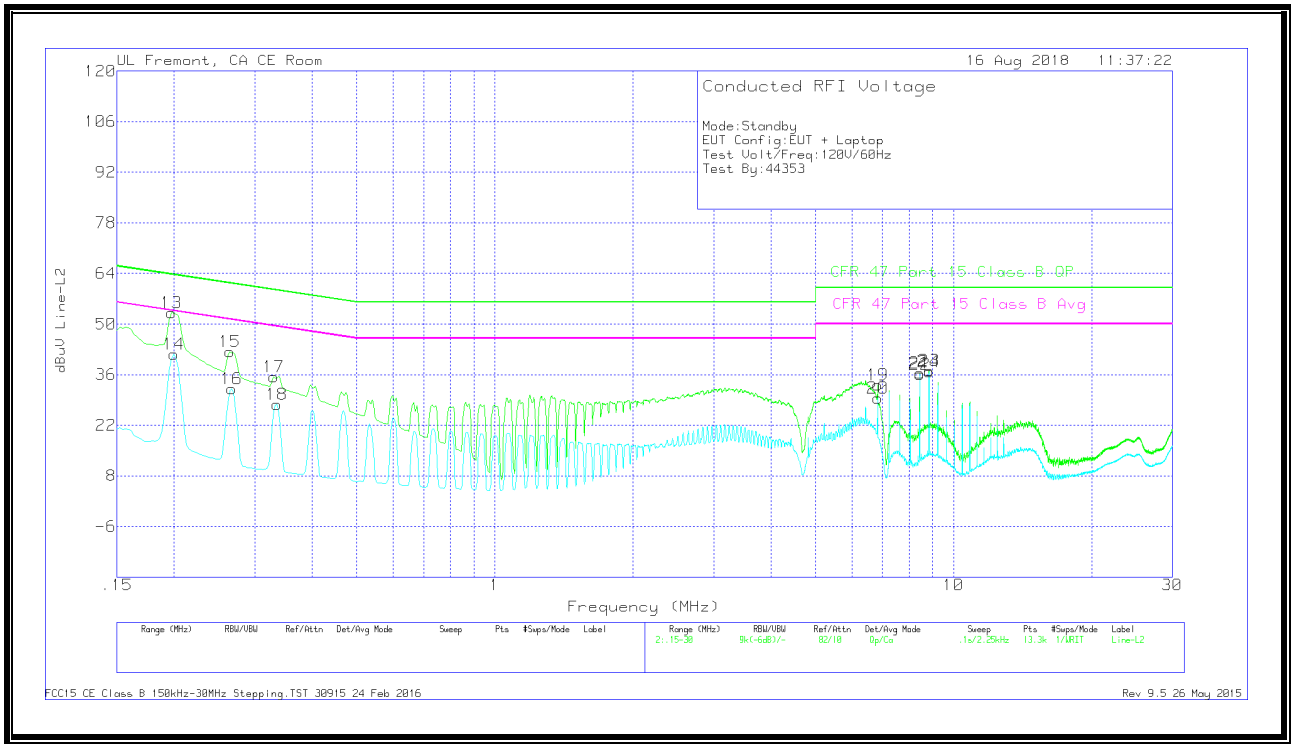
LINE 2 RESULTS



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	.19725	43.04	Qp	0	0	10.1	53.14	63.73	-10.59	-	-
14	.1995	31.49	Ca	0	0	10.1	41.59	-	-	53.63	-12.04
15	.26475	32.18	Qp	0	0	10.1	42.28	61.28	-19	-	-
16	.267	22.01	Ca	0	0	10.1	32.11	-	-	51.21	-19.1
17	.33	25.36	Qp	0	0	10.1	35.46	59.45	-23.99	-	-
18	.3345	17.64	Ca	0	0	10.1	27.74	-	-	49.34	-21.6
19	6.8325	22.79	Qp	0	.2	10.2	33.19	60	-26.81	-	-
20	6.8325	19.15	Ca	0	.2	10.2	29.55	-	-	50	-20.45
21	8.439	26.11	Qp	0	.2	10.2	36.51	60	-23.49	-	-
22	8.439	25.76	Ca	0	.2	10.2	36.16	-	-	50	-13.84
23	8.84175	26.78	Qp	0	.2	10.2	37.18	60	-22.82	-	-
24	8.84175	26.36	Ca	0	.2	10.2	36.76	-	-	50	-13.24

Qp - Quasi-Peak detector

Ca - CISPR average detection

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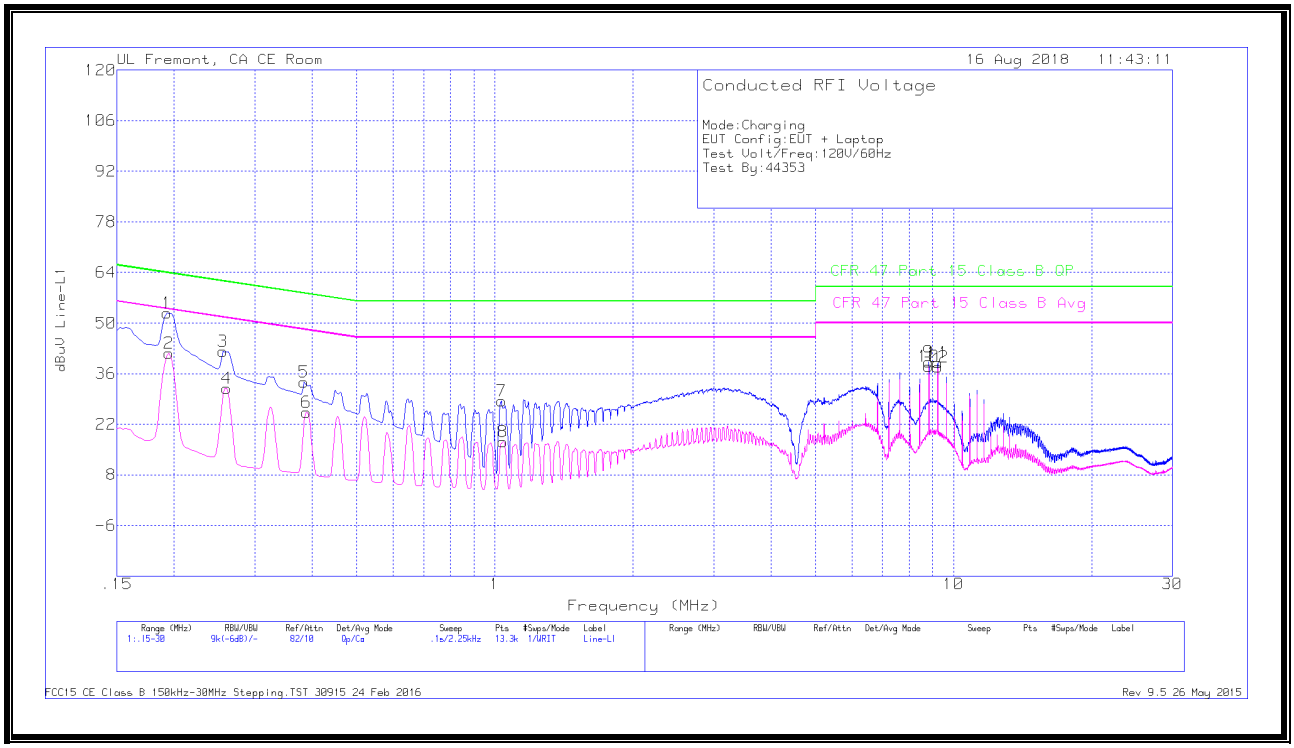
9.1.4. OPERATING MODE WITH WATCH POWERED BY HOST PC VIA USB CABLE

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	.19275	42.64	Qp	0	0	10.1	52.74	63.92	-11.18	-	-
2	.195	31.52	Ca	0	0	10.1	41.62	-	-	53.82	-12.2
3	.25575	32.01	Qp	0	0	10.1	42.11	61.57	-19.46	-	-
4	.26025	21.85	Ca	0	0	10.1	31.95	-	-	51.42	-19.47
5	.384	23.5	Qp	0	0	10.1	33.6	58.19	-24.59	-	-
6	.3885	15.27	Ca	0	0	10.1	25.37	-	-	48.1	-22.73
7	1.03425	18.24	Qp	0	.1	10.1	28.44	56	-27.56	-	-
8	1.04325	6.99	Ca	0	.1	10.1	17.19	-	-	46	-28.81
9	8.83725	28.87	Qp	0	.2	10.2	39.27	60	-20.73	-	-
10	8.83725	27.62	Ca	0	.2	10.2	38.02	-	-	50	-11.98
11	9.24	28.59	Qp	0	.2	10.2	38.99	60	-21.01	-	-
12	9.24	27.37	Ca	0	.2	10.2	37.77	-	-	50	-12.23

Qp - Quasi-Peak detector

Ca - CISPR average detection

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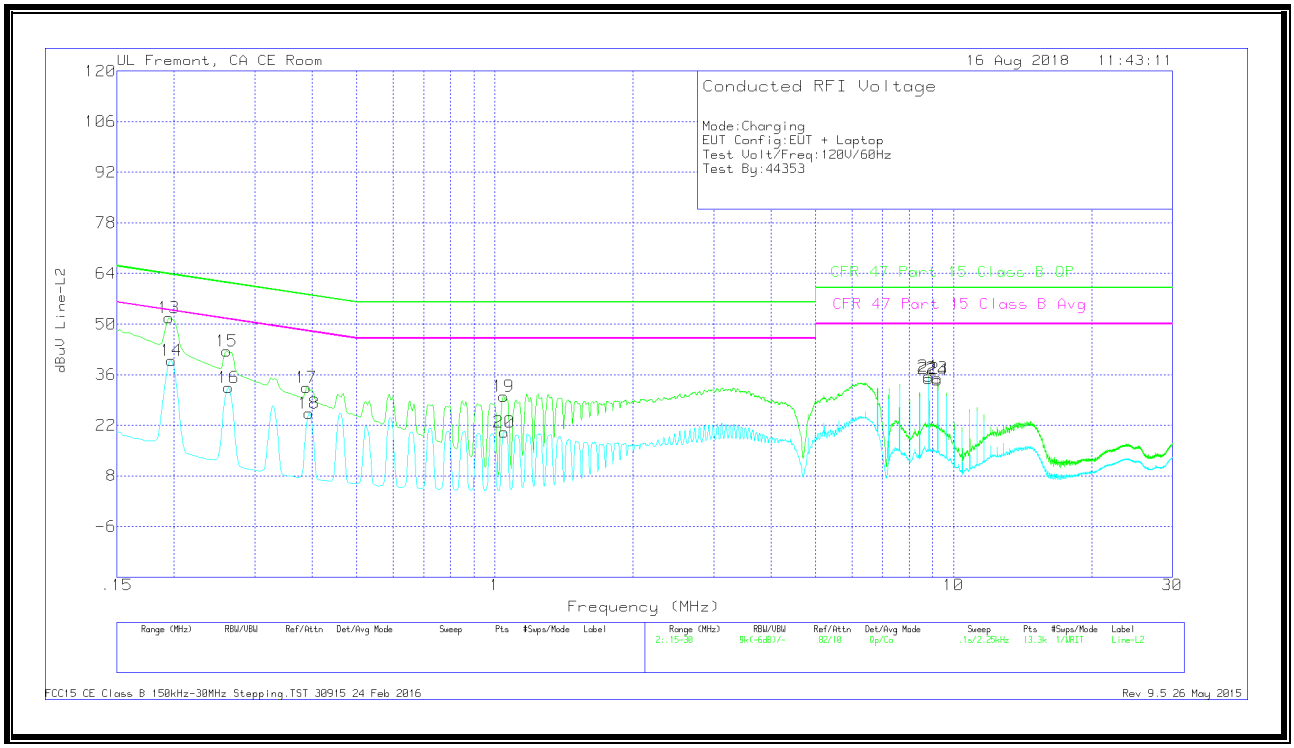
LINE 2 RESULTS



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	.195	41.59	Qp	0	0	10.1	51.69	63.82	-12.13	-	-
14	.19725	29.82	Ca	0	0	10.1	39.92	-	-	53.73	-13.81
15	.26025	32.4	Qp	0	0	10.1	42.5	61.42	-18.92	-	-
16	.2625	22.37	Ca	0	0	10.1	32.47	-	-	51.35	-18.88
17	.3885	22.29	Qp	0	0	10.1	32.39	58.1	-25.71	-	-
18	.393	15.16	Ca	0	0	10.1	25.26	-	-	48	-22.74
19	1.0455	19.76	Qp	0	.1	10.1	29.96	56	-26.04	-	-
20	1.04775	9.93	Ca	0	.1	10.1	20.13	-	-	46	-25.87
21	8.835	25.19	Qp	0	.2	10.2	35.59	60	-24.41	-	-
22	8.835	24.53	Ca	0	.2	10.2	34.93	-	-	50	-15.07
23	9.2355	24.69	Qp	0	.2	10.2	35.09	60	-24.91	-	-
24	9.2355	24.09	Ca	0	.2	10.2	34.49	-	-	50	-15.51

Qp - Quasi-Peak detector

Ca - CISPR average detection

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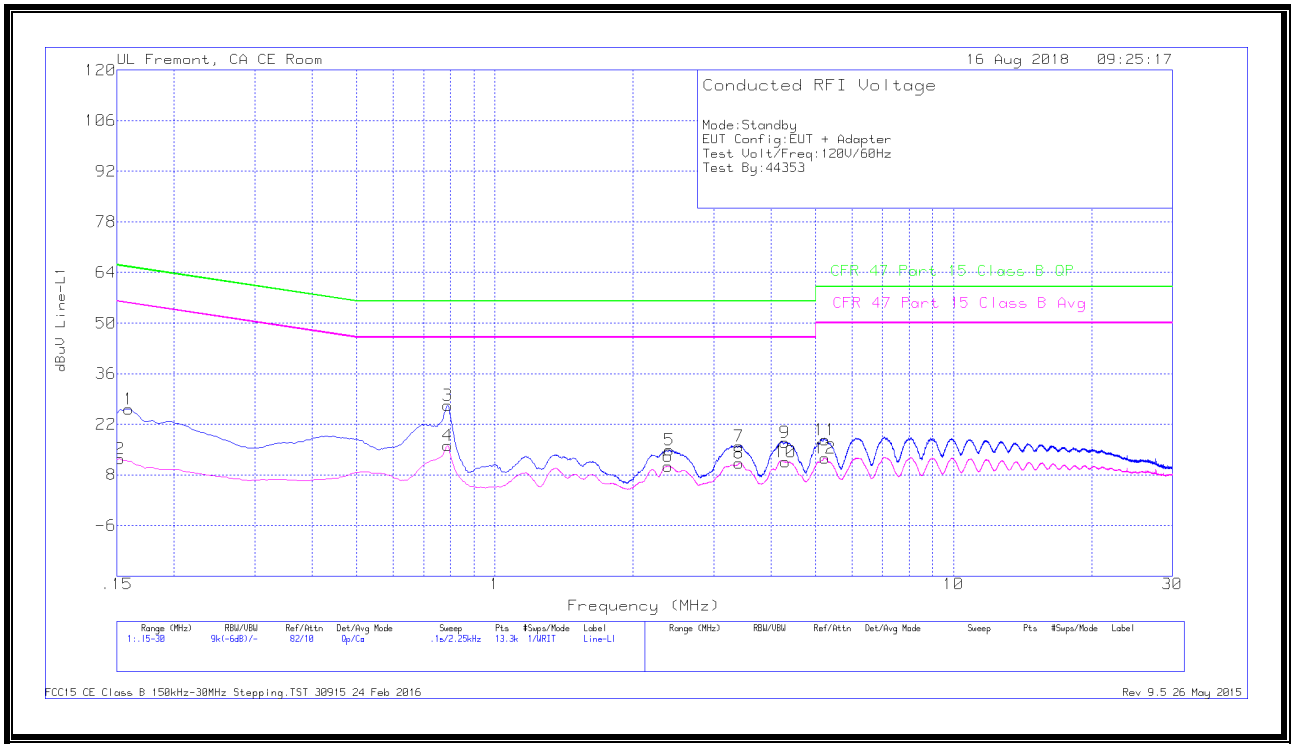
9.2. STAINLESS STEEL WITH 1M CABLE

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	.159	15.94	Qp	.1	0	10.1	26.14	65.52	-39.38	-	-
2	.15225	2.3	Ca	.1	0	10.1	12.5	-	-	55.88	-43.38
3	.789	17.11	Qp	0	0	10.1	27.21	56	-28.79	-	-
4	.789	5.99	Ca	0	0	10.1	16.09	-	-	46	-29.91
5	2.4045	4.62	Qp	0	.1	10.1	14.82	56	-41.18	-	-
6	2.3865	.14	Ca	0	.1	10.1	10.34	-	-	46	-35.66
7	3.40575	5.76	Qp	0	.1	10.1	15.96	56	-40.04	-	-
8	3.40688	.98	Ca	0	.1	10.1	11.18	-	-	46	-34.82
9	4.29225	6.81	Qp	0	.1	10.1	17.01	56	-38.99	-	-
10	4.30463	1.41	Ca	0	.1	10.1	11.61	-	-	46	-34.39
11	5.253	7.51	Qp	0	.1	10.1	17.71	60	-42.29	-	-
12	5.253	2.39	Ca	0	.1	10.1	12.59	-	-	50	-37.41

Qp - Quasi-Peak detector

Ca - CISPR average detection

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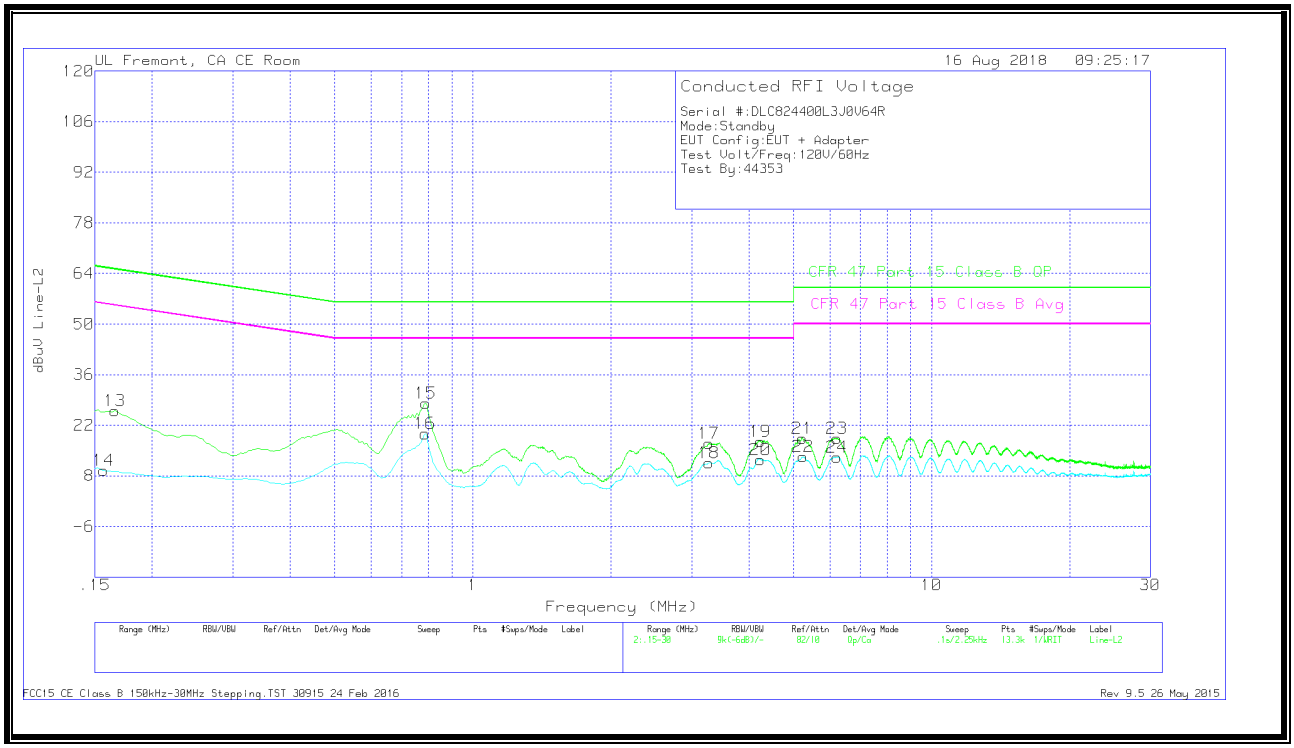
LINE 2 RESULTS



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	.16575	15.75	Qp	.1	0	10.1	25.95	65.17	-39.22	-	-
14	.15675	-.67	Ca	.1	0	10.1	9.53	-	-	55.63	-46.1
15	.789	17.94	Qp	0	0	10.1	28.04	56	-27.96	-	-
16	.78675	9.57	Ca	0	0	10.1	19.67	-	-	46	-26.33
17	3.2685	6.82	Qp	0	.1	10.1	17.02	56	-38.98	-	-
18	3.27075	1.41	Ca	0	.1	10.1	11.61	-	-	46	-34.39
19	4.2405	7.35	Qp	0	.1	10.1	17.55	56	-38.45	-	-
20	4.23825	2.3	Ca	0	.1	10.1	12.5	-	-	46	-33.5
21	5.23725	8.18	Qp	0	.1	10.1	18.38	60	-41.62	-	-
22	5.2485	3.07	Ca	0	.1	10.1	13.27	-	-	50	-36.73
23	6.21375	8	Qp	0	.2	10.2	18.4	60	-41.6	-	-
24	6.21263	2.76	Ca	0	.2	10.2	13.16	-	-	50	-36.84

Qp - Quasi-Peak detector

Ca - CISPR average detection

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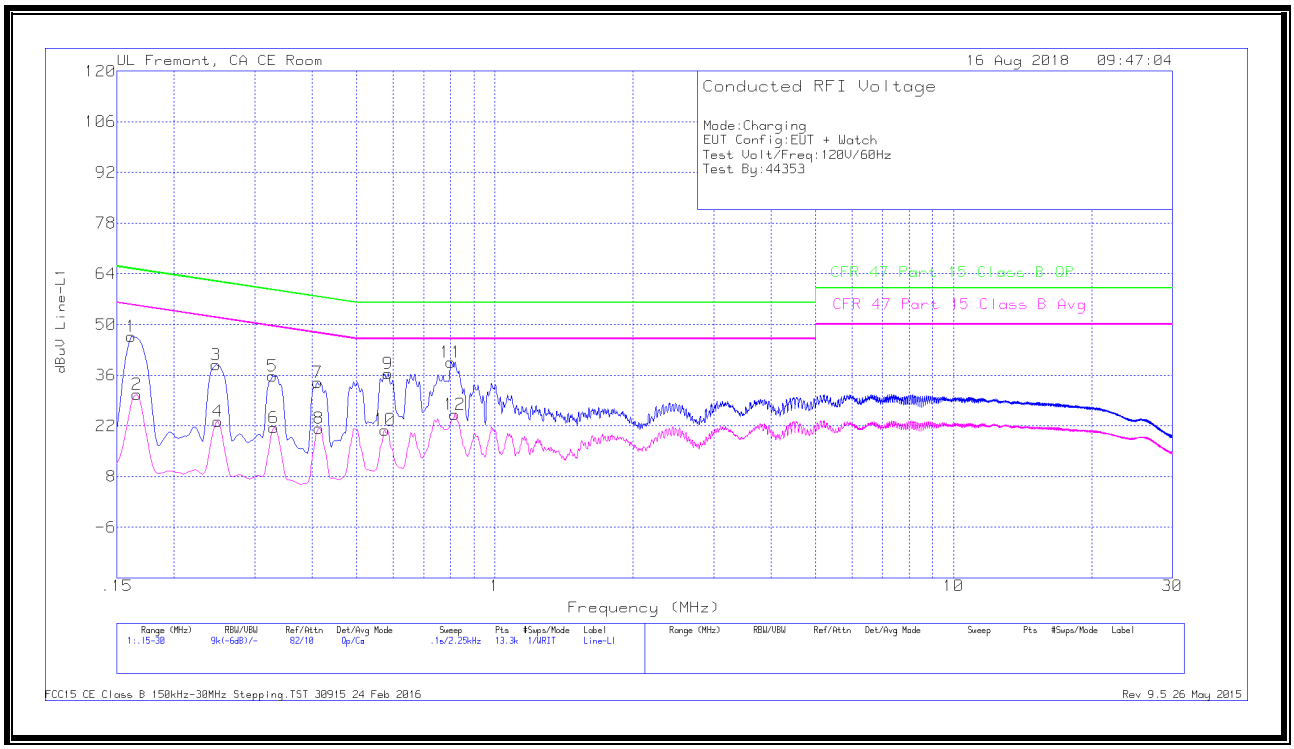
9.2.2. OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER

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	.16125	36.45	Qp	.1	0	10.1	46.65	65.4	-18.75	-	-
2	.16575	20.52	Ca	.1	0	10.1	30.72	-	-	55.17	-24.45
3	.24675	28.71	Qp	0	0	10.1	38.81	61.87	-23.06	-	-
4	.249	13.18	Ca	0	0	10.1	23.28	-	-	51.79	-28.51
5	.32775	25.69	Qp	0	0	10.1	35.79	59.51	-23.72	-	-
6	.33	11.41	Ca	0	0	10.1	21.51	-	-	49.45	-27.94
7	.411	23.9	Qp	0	0	10.1	34	57.63	-23.63	-	-
8	.41325	11.21	Ca	0	0	10.1	21.31	-	-	47.58	-26.27
9	.58425	26.37	Qp	0	0	10.1	36.47	56	-19.53	-	-
10	.57525	10.78	Ca	0	0	10.1	20.88	-	-	46	-25.12
11	.8025	29.49	Qp	0	0	10.1	39.59	56	-16.41	-	-
12	.81825	15.11	Ca	0	0	10.1	25.21	-	-	46	-20.79

Qp - Quasi-Peak detector

Ca - CISPR average detection

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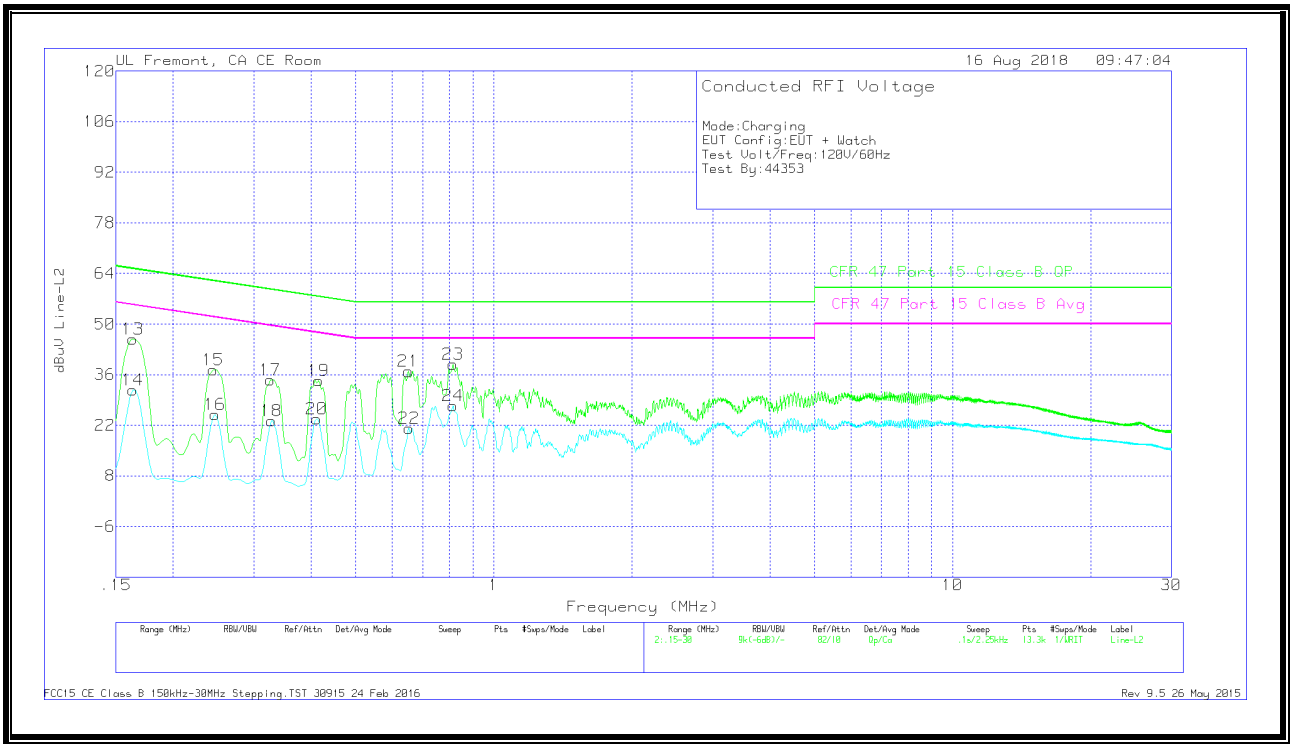
LINE 2 RESULTS



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	.1635	35.59	Qp	.1	0	10.1	45.79	65.28	-19.49	-	-
14	.1635	21.55	Ca	.1	0	10.1	31.75	-	-	55.28	-23.53
15	.2445	27.27	Qp	0	0	10.1	37.37	61.94	-24.57	-	-
16	.24675	14.86	Ca	0	0	10.1	24.96	-	-	51.87	-26.91
17	.3255	24.49	Qp	0	0	10.1	34.59	59.57	-24.98	-	-
18	.32775	13.14	Ca	0	0	10.1	23.24	-	-	49.51	-26.27
19	.4155	24.27	Qp	0	0	10.1	34.37	57.54	-23.17	-	-
20	.411	13.7	Ca	0	0	10.1	23.8	-	-	47.63	-23.83
21	.65175	26.78	Qp	0	0	10.1	36.88	56	-19.12	-	-
22	.654	11	Ca	0	0	10.1	21.1	-	-	46	-24.9
23	.81375	28.8	Qp	0	0	10.1	38.9	56	-17.1	-	-
24	.81375	17.33	Ca	0	0	10.1	27.43	-	-	46	-18.57

Qp - Quasi-Peak detector

Ca - CISPR average detection

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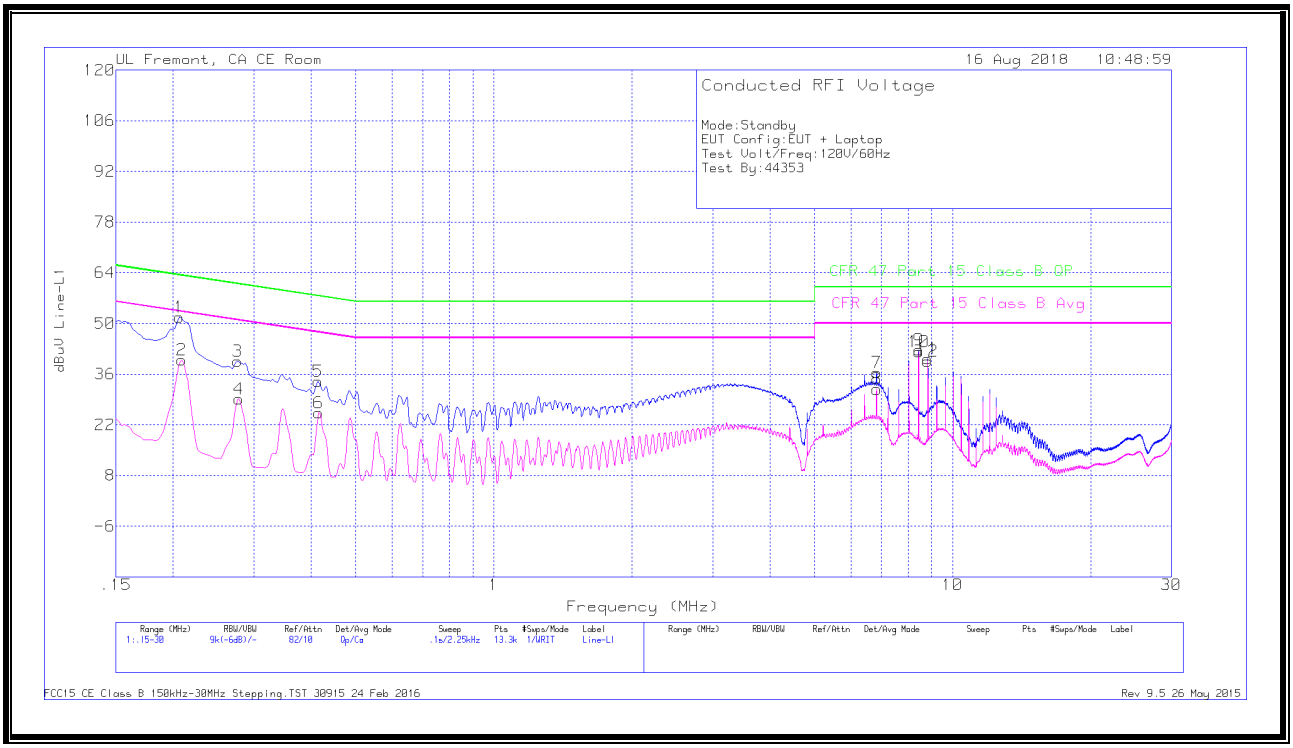
9.2.3. STANDBY MODE POWERED BY HOST PC VIA USB CABLE

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	.20625	41.58	Qp	0	0	10.1	51.68	63.35	-11.67	-	-
2	.2085	29.75	Ca	0	0	10.1	39.85	-	-	53.26	-13.41
3	.276	29.53	Qp	0	0	10.1	39.63	60.94	-21.31	-	-
4	.27825	19.09	Ca	0	0	10.1	29.19	-	-	50.87	-21.68
5	.41325	23.85	Qp	0	0	10.1	33.95	57.58	-23.63	-	-
6	.4155	15.28	Ca	0	0	10.1	25.38	-	-	47.54	-22.16
7	6.828	26.09	Qp	0	.2	10.2	36.49	60	-23.51	-	-
8	6.828	21.44	Ca	0	.2	10.2	31.84	-	-	50	-18.16
9	8.4345	32.31	Qp	0	.2	10.2	42.71	60	-17.29	-	-
10	8.4345	31.84	Ca	0	.2	10.2	42.24	-	-	50	-7.76
11	8.83725	29.92	Qp	0	.2	10.2	40.32	60	-19.68	-	-
12	8.83725	29.13	Ca	0	.2	10.2	39.53	-	-	50	-10.47

Qp - Quasi-Peak detector

Ca - CISPR average detection

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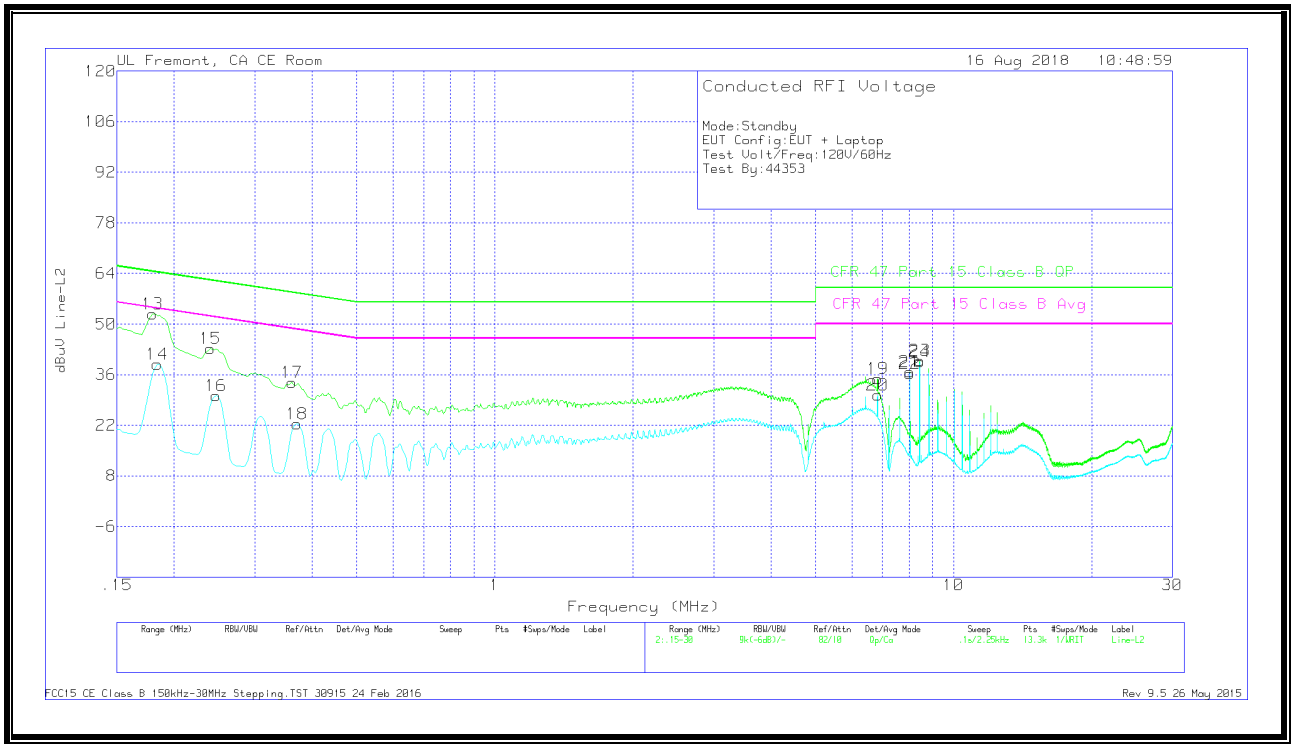
LINE 2 RESULTS



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	.17925	42.7	Qp	0	0	10.1	52.8	64.52	-11.72	-	-
14	.18375	28.77	Ca	0	0	10.1	38.87	-	-	54.31	-15.44
15	.24	33.09	Qp	0	0	10.1	43.19	62.1	-18.91	-	-
16	.24675	20.08	Ca	0	0	10.1	30.18	-	-	51.87	-21.69
17	.3615	23.74	Qp	0	0	10.1	33.84	58.69	-24.85	-	-
18	.3705	12.28	Ca	0	0	10.1	22.38	-	-	48.49	-26.11
19	6.828	24.53	Qp	0	.2	10.2	34.93	60	-25.07	-	-
20	6.828	19.94	Ca	0	.2	10.2	30.34	-	-	50	-19.66
21	8.03175	26.33	Qp	0	.2	10.2	36.73	60	-23.27	-	-
22	8.03175	25.86	Ca	0	.2	10.2	36.26	-	-	50	-13.74
23	8.4345	29.47	Qp	0	.2	10.2	39.87	60	-20.13	-	-
24	8.4345	29.18	Ca	0	.2	10.2	39.58	-	-	50	-10.42

Qp - Quasi-Peak detector

Ca - CISPR average detection

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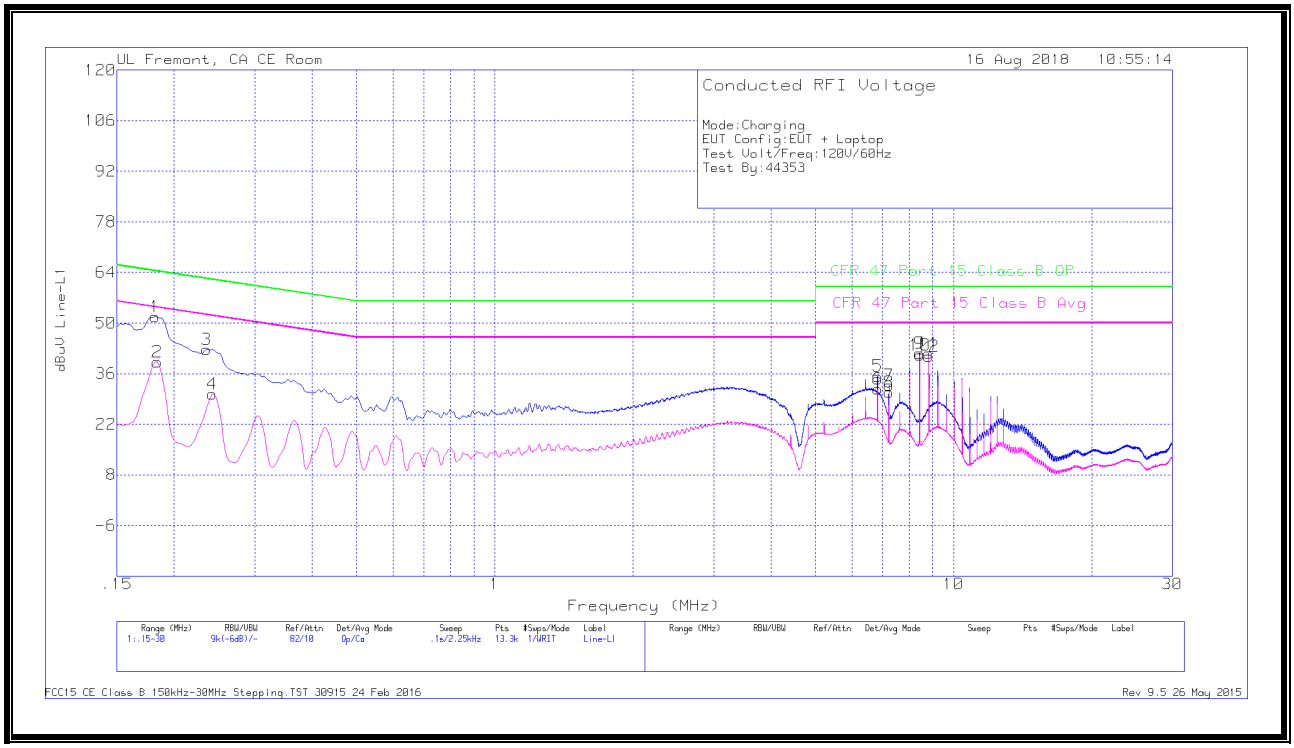
9.2.4. OPERATING MODE WITH WATCH POWERED BY HOST PC VIA USB CABLE

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	.1815	41.62	Qp	0	0	10.1	51.72	64.42	-12.7	-	-
2	.18375	29.15	Ca	0	0	10.1	39.25	-	-	54.31	-15.06
3	.2355	32.66	Qp	0	0	10.1	42.76	62.25	-19.49	-	-
4	.24225	20.28	Ca	0	0	10.1	30.38	-	-	52.02	-21.64
5	6.828	24.91	Qp	0	.2	10.2	35.31	60	-24.69	-	-
6	6.828	21.31	Ca	0	.2	10.2	31.71	-	-	50	-18.29
7	7.2285	22.33	Qp	0	.2	10.2	32.73	60	-27.27	-	-
8	7.2285	20.53	Ca	0	.2	10.2	30.93	-	-	50	-19.07
9	8.43225	31.2	Qp	0	.2	10.2	41.6	60	-18.4	-	-
10	8.4345	30.72	Ca	0	.2	10.2	41.12	-	-	50	-8.88
11	8.835	31.21	Qp	0	.2	10.2	41.61	60	-18.39	-	-
12	8.835	30.36	Ca	0	.2	10.2	40.76	-	-	50	-9.24

Qp - Quasi-Peak detector

Ca - CISPR average detection

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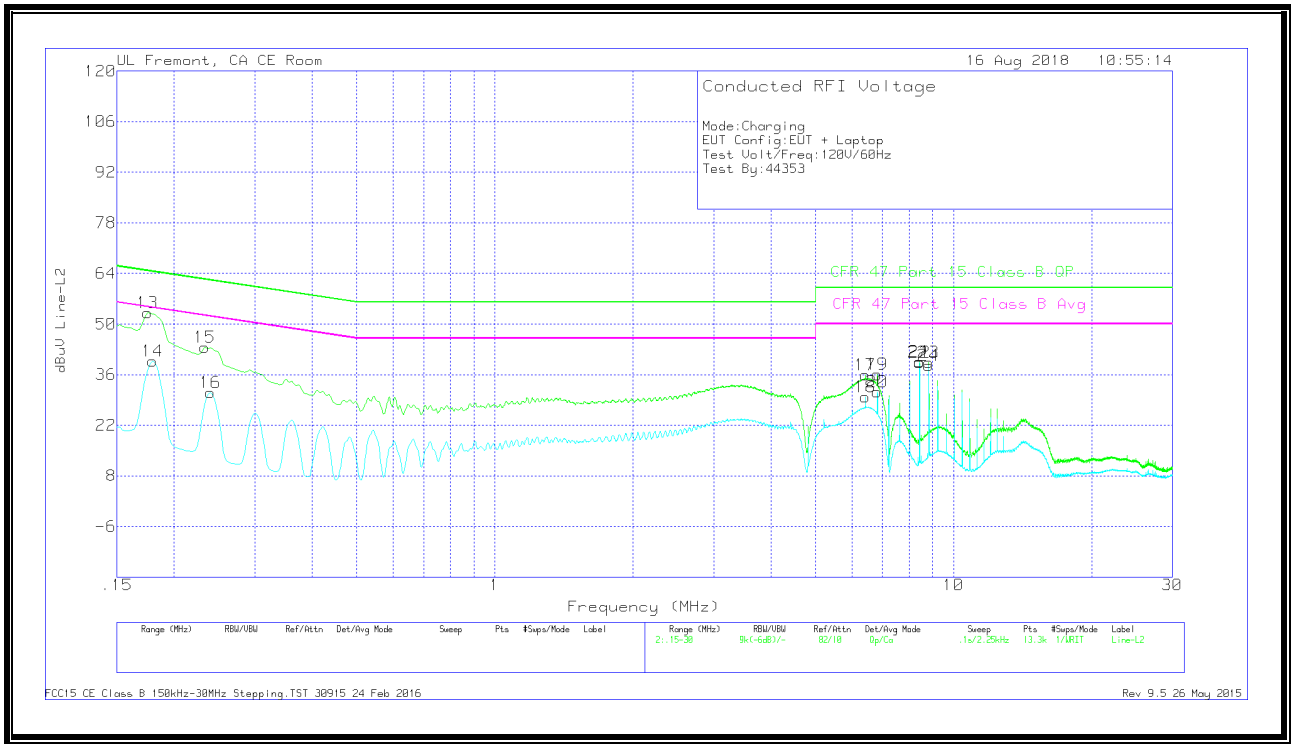
LINE 2 RESULTS



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	.17475	42.97	Qp	0	0	10.1	53.07	64.73	-11.66	-	-
14	.17925	29.64	Ca	0	0	10.1	39.74	-	-	54.52	-14.78
15	.23325	33.44	Qp	0	0	10.1	43.54	62.33	-18.79	-	-
16	.24	20.9	Ca	0	0	10.1	31	-	-	52.1	-21.1
17	6.42525	25.57	Qp	0	.2	10.2	35.97	60	-24.03	-	-
18	6.42525	19.43	Ca	0	.2	10.2	29.83	-	-	50	-20.17
19	6.82575	25.61	Qp	0	.2	10.2	36.01	60	-23.99	-	-
20	6.82575	20.86	Ca	0	.2	10.2	31.26	-	-	50	-18.74
21	8.43225	29.13	Qp	0	.2	10.2	39.53	60	-20.47	-	-
22	8.43225	28.94	Ca	0	.2	10.2	39.34	-	-	50	-10.66
23	8.83275	29.03	Qp	0	.2	10.2	39.43	60	-20.57	-	-
24	8.83275	28.16	Ca	0	.2	10.2	38.56	-	-	50	-11.44

Qp - Quasi-Peak detector

Ca - CISPR average detection

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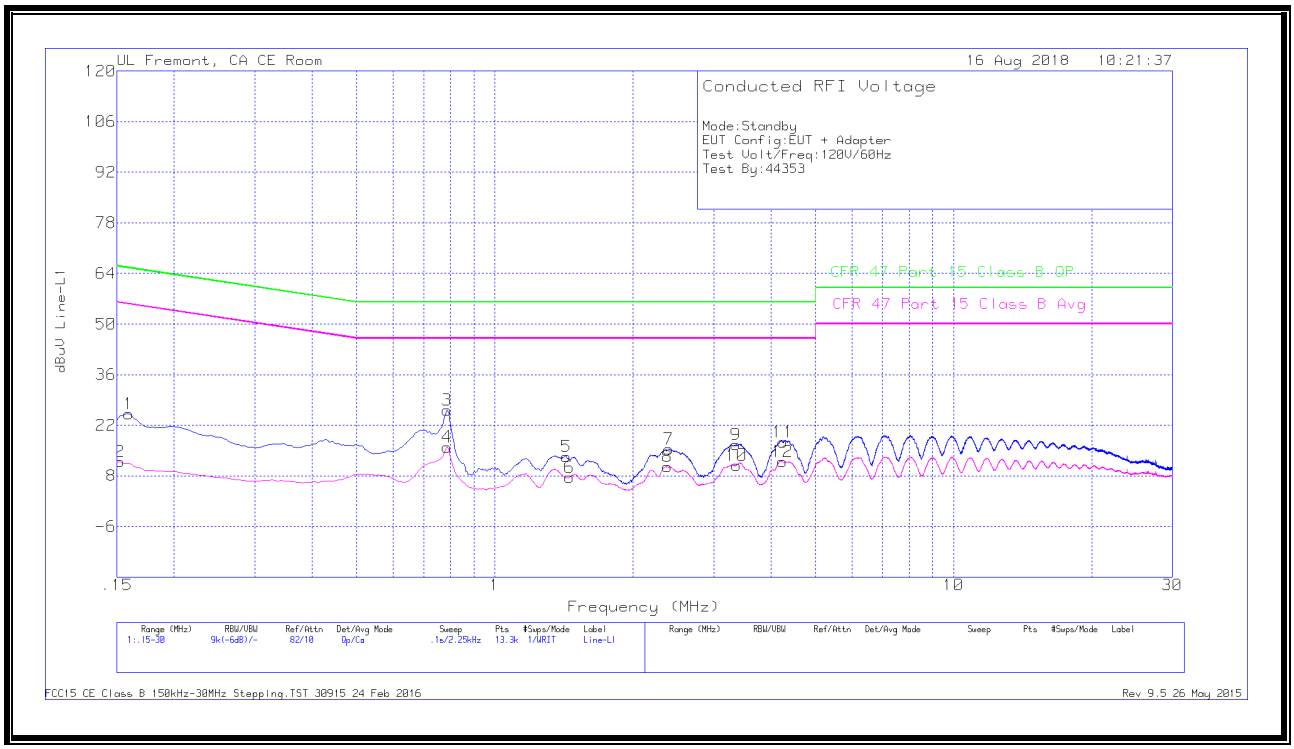
9.3. STAINLESS STEEL WITH 2M CABLE

9.3.1. 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	.159	14.88	Qp	.1	0	10.1	25.08	65.52	-40.44	-	-
2	.15225	1.79	Ca	.1	0	10.1	11.99	-	-	55.88	-43.89
3	.78675	16.03	Qp	0	0	10.1	26.13	56	-29.87	-	-
4	.78675	5.91	Ca	0	0	10.1	16.01	-	-	46	-29.99
5	1.43025	3.2	Qp	0	.1	10.1	13.4	56	-42.6	-	-
6	1.45275	-2.68	Ca	0	.1	10.1	7.52	-	-	46	-38.48
7	2.39325	5.24	Qp	0	.1	10.1	15.44	56	-40.56	-	-
8	2.38088	.32	Ca	0	.1	10.1	10.52	-	-	46	-35.48
9	3.35175	6.46	Qp	0	.1	10.1	16.66	56	-39.34	-	-
10	3.36525	.77	Ca	0	.1	10.1	10.97	-	-	46	-35.03
11	4.254	7.12	Qp	0	.1	10.1	17.32	56	-38.68	-	-
12	4.23713	1.69	Ca	0	.1	10.1	11.89	-	-	46	-34.11

Qp - Quasi-Peak detector

Ca - CISPR average detection

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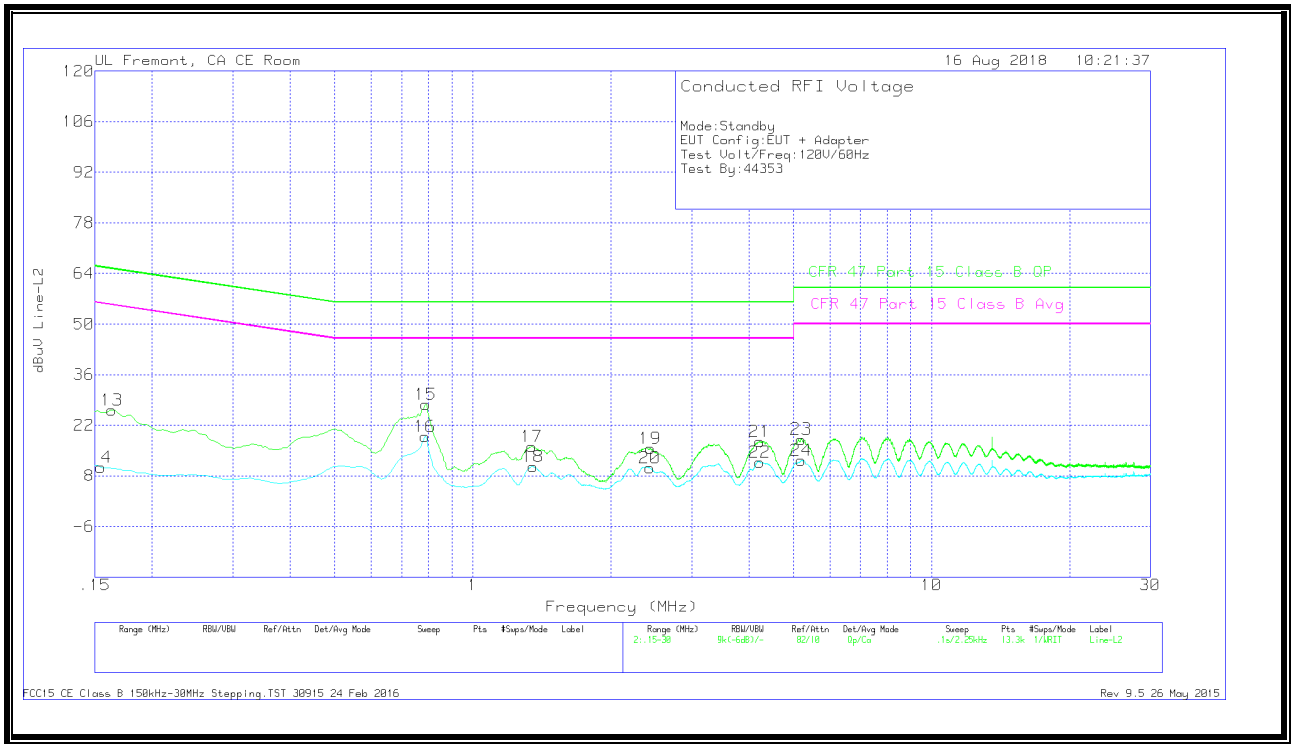
LINE 2 RESULTS



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	.1635	15.94	Qp	.1	0	10.1	26.14	65.28	-39.14	-	-
14	.1545	.18	Ca	.1	0	10.1	10.38	-	-	55.75	-45.37
15	.789	17.72	Qp	0	0	10.1	27.82	56	-28.18	-	-
16	.78675	8.81	Ca	0	0	10.1	18.91	-	-	46	-27.09
17	1.34475	5.95	Qp	0	.1	10.1	16.15	56	-39.85	-	-
18	1.3515	.33	Ca	0	.1	10.1	10.53	-	-	46	-35.47
19	2.436	5.35	Qp	0	.1	10.1	15.55	56	-40.45	-	-
20	2.42925	-.04	Ca	0	.1	10.1	10.16	-	-	46	-35.84
21	4.22588	7.26	Qp	0	.1	10.1	17.46	56	-38.54	-	-
22	4.22475	1.62	Ca	0	.1	10.1	11.82	-	-	46	-34.18
23	5.19225	7.9	Qp	0	.1	10.1	18.1	60	-41.9	-	-
24	5.19225	2	Ca	0	.1	10.1	12.2	-	-	50	-37.8

Qp - Quasi-Peak detector

Ca - CISPR average detection

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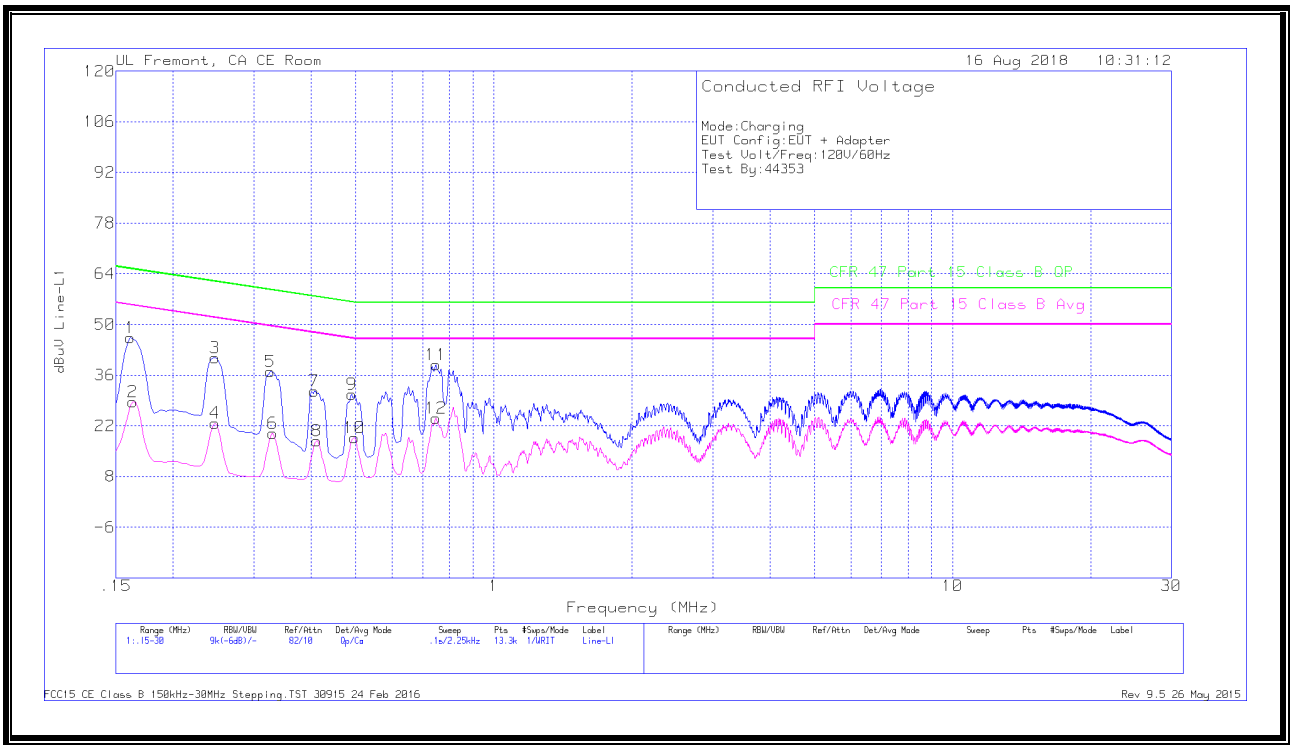
9.3.2. OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER

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	.16125	36.12	Qp	.1	0	10.1	46.32	65.4	-19.08	-	-
2	.1635	18.36	Ca	.1	0	10.1	28.56	-	-	55.28	-26.72
3	.24675	30.75	Qp	0	0	10.1	40.85	61.87	-21.02	-	-
4	.24675	12.69	Ca	0	0	10.1	22.79	-	-	51.87	-29.08
5	.3255	26.81	Qp	0	0	10.1	36.91	59.57	-22.66	-	-
6	.33	9.76	Ca	0	0	10.1	19.86	-	-	49.45	-29.59
7	.4065	21.48	Qp	0	0	10.1	31.58	57.72	-26.14	-	-
8	.411	7.8	Ca	0	0	10.1	17.9	-	-	47.63	-29.73
9	.48975	20.62	Qp	0	0	10.1	30.72	56.17	-25.45	-	-
10	.4965	8.56	Ca	0	0	10.1	18.66	-	-	46.06	-27.4
11	.7485	28.72	Qp	0	0	10.1	38.82	56	-17.18	-	-
12	.7485	13.94	Ca	0	0	10.1	24.04	-	-	46	-21.96

Qp - Quasi-Peak detector

Ca - CISPR average detection

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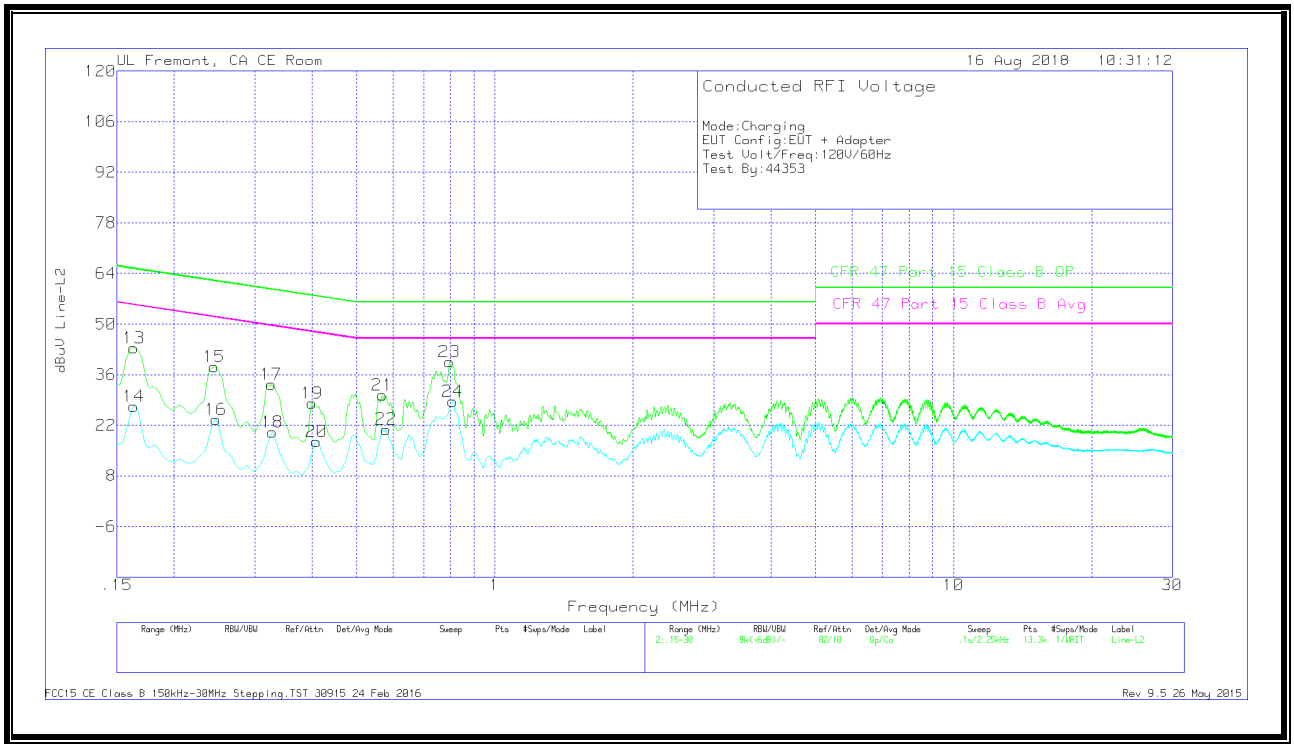
LINE 2 RESULTS



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	.1635	33.26	Qp	.1	0	10.1	43.46	65.28	-21.82	-	-
14	.1635	16.98	Ca	.1	0	10.1	27.18	-	-	55.28	-28.1
15	.2445	28.11	Qp	0	0	10.1	38.21	61.94	-23.73	-	-
16	.24675	13.42	Ca	0	0	10.1	23.52	-	-	51.87	-28.35
17	.3255	23.2	Qp	0	0	10.1	33.3	59.57	-26.27	-	-
18	.32775	10.07	Ca	0	0	10.1	20.17	-	-	49.51	-29.34
19	.39975	18.01	Qp	0	0	10.1	28.11	57.86	-29.75	-	-
20	.40875	7.41	Ca	0	0	10.1	17.51	-	-	47.67	-30.16
21	.5685	20.2	Qp	0	0	10.1	30.3	56	-25.7	-	-
22	.57975	10.78	Ca	0	0	10.1	20.88	-	-	46	-25.12
23	.79575	29.51	Qp	0	0	10.1	39.61	56	-16.39	-	-
24	.80925	18.49	Ca	0	0	10.1	28.59	-	-	46	-17.41

Qp - Quasi-Peak detector

Ca - CISPR average detection

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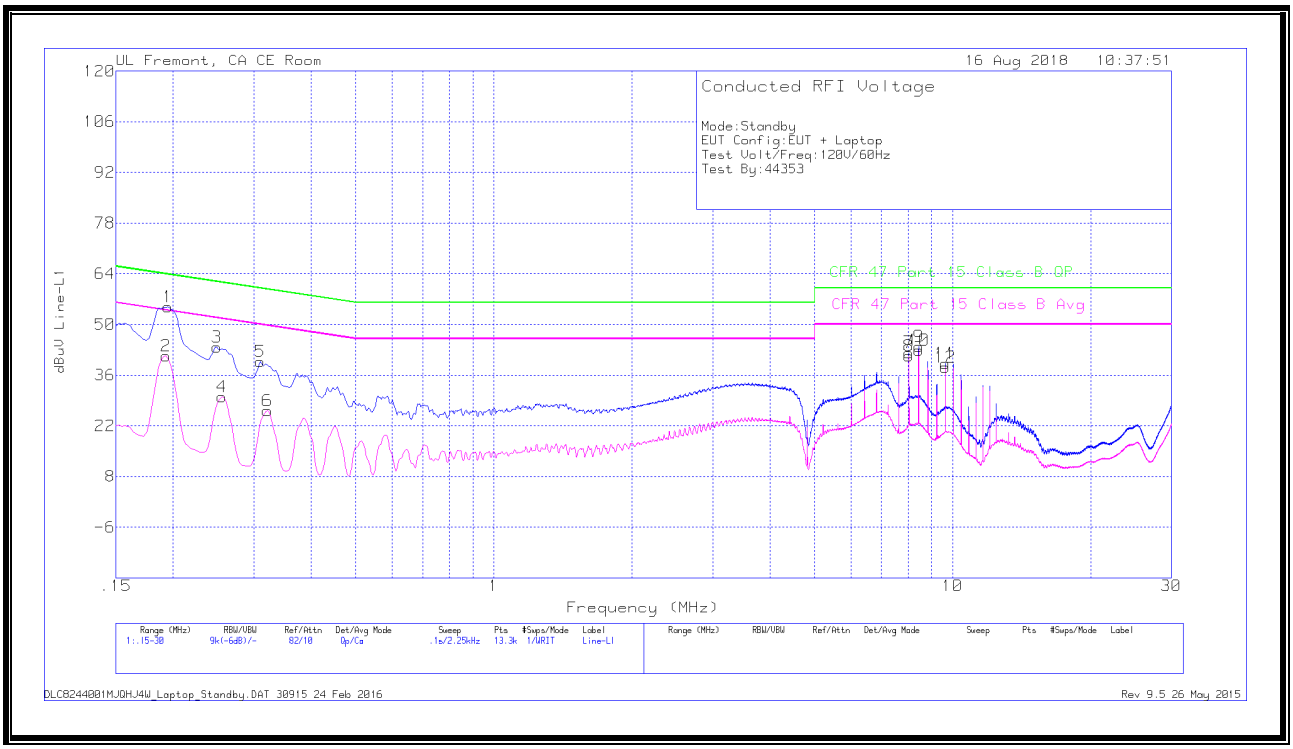
9.3.3. STANDBY MODE POWERED BY HOST PC VIA USB CABLE

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	.195	44.8	Qp	0	0	10.1	54.9	63.82	-8.92	-	-
2	.19275	31.24	Ca	0	0	10.1	41.34	-	-	53.92	-12.58
3	.249	33.64	Qp	0	0	10.1	43.74	61.79	-18.05	-	-
4	.25575	19.94	Ca	0	0	10.1	30.04	-	-	51.57	-21.53
5	.30975	29.63	Qp	0	0	10.1	39.73	59.98	-20.25	-	-
6	.321	16.04	Ca	0	0	10.1	26.14	-	-	49.68	-23.54
7	8.034	31.86	Qp	0	.2	10.2	42.26	60	-17.74	-	-
8	8.034	30.95	Ca	0	.2	10.2	41.35	-	-	50	-8.65
9	8.4345	33.5	Qp	0	.2	10.2	43.9	60	-16.1	-	-
10	8.4345	32.44	Ca	0	.2	10.2	42.84	-	-	50	-7.16
11	9.6405	28.75	Qp	0	.2	10.2	39.15	60	-20.85	-	-
12	9.6405	27.73	Ca	0	.2	10.2	38.13	-	-	50	-11.87

Qp - Quasi-Peak detector

Ca - CISPR average detection

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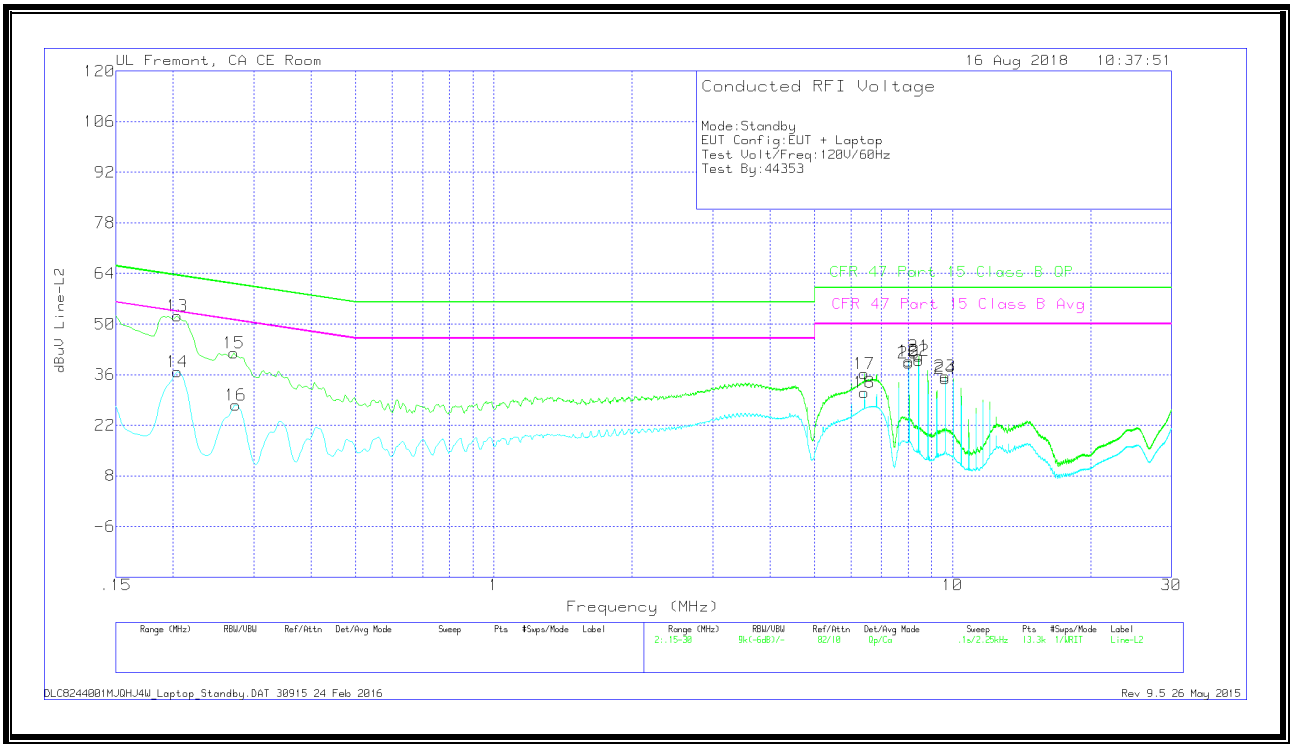
LINE 2 RESULTS



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	.204	42.09	Qp	0	0	10.1	52.19	63.45	-11.26	-	-
14	.204	26.62	Ca	0	0	10.1	36.72	-	-	53.45	-16.73
15	.2715	31.84	Qp	0	0	10.1	41.94	61.07	-19.13	-	-
16	.27375	17.45	Ca	0	0	10.1	27.55	-	-	51	-23.45
17	6.4275	25.92	Qp	0	.2	10.2	36.32	60	-23.68	-	-
18	6.4275	20.6	Ca	0	.2	10.2	31	-	-	50	-19
19	8.034	29.28	Qp	0	.2	10.2	39.68	60	-20.32	-	-
20	8.034	28.79	Ca	0	.2	10.2	39.19	-	-	50	-10.81
21	8.4345	30.73	Qp	0	.2	10.2	41.13	60	-18.87	-	-
22	8.43675	29.55	Ca	0	.2	10.2	39.95	-	-	50	-10.05
23	9.6405	25.11	Qp	0	.2	10.2	35.51	60	-24.49	-	-
24	9.6405	24.46	Ca	0	.2	10.2	34.86	-	-	50	-15.14

Qp - Quasi-Peak detector

Ca - CISPR average detection

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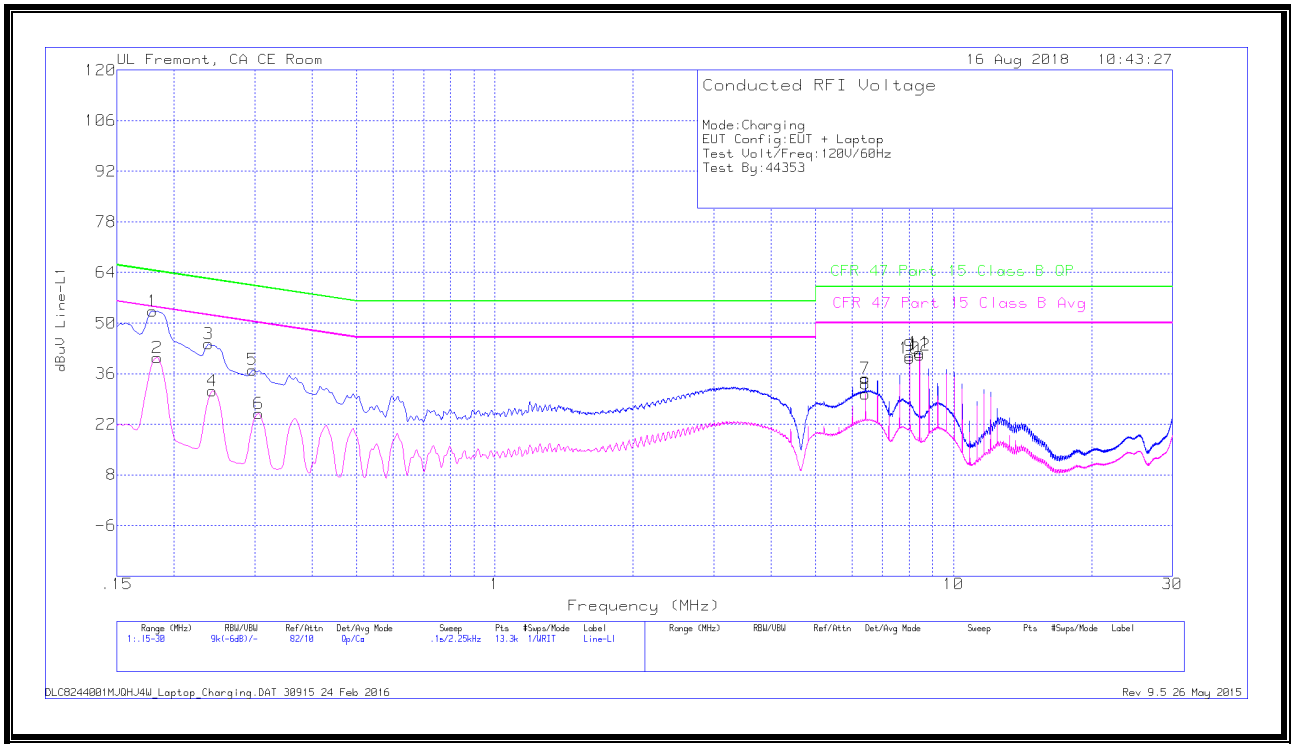
9.3.4. OPERATING MODE WITH WATCH POWERED BY HOST PC VIA USB CABLE

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	.17925	43.22	Qp	0	0	10.1	53.32	64.52	-11.2	-	-
2	.18375	30.37	Ca	0	0	10.1	40.47	-	-	54.31	-13.84
3	.23775	34.13	Qp	0	0	10.1	44.23	62.17	-17.94	-	-
4	.24225	21.06	Ca	0	0	10.1	31.16	-	-	52.02	-20.86
5	.29625	26.95	Qp	0	0	10.1	37.05	60.35	-23.3	-	-
6	.30525	14.85	Ca	0	0	10.1	24.95	-	-	50.1	-25.15
7	6.42525	24.28	Qp	0	.2	10.2	34.68	60	-25.32	-	-
8	6.42525	19.98	Ca	0	.2	10.2	30.38	-	-	50	-19.62
9	8.03175	30.62	Qp	0	.2	10.2	41.02	60	-18.98	-	-
10	8.03175	29.9	Ca	0	.2	10.2	40.3	-	-	50	-9.7
11	8.43225	31.39	Qp	0	.2	10.2	41.79	60	-18.21	-	-
12	8.4345	30.68	Ca	0	.2	10.2	41.08	-	-	50	-8.92

Qp - Quasi-Peak detector

Ca - CISPR average detection

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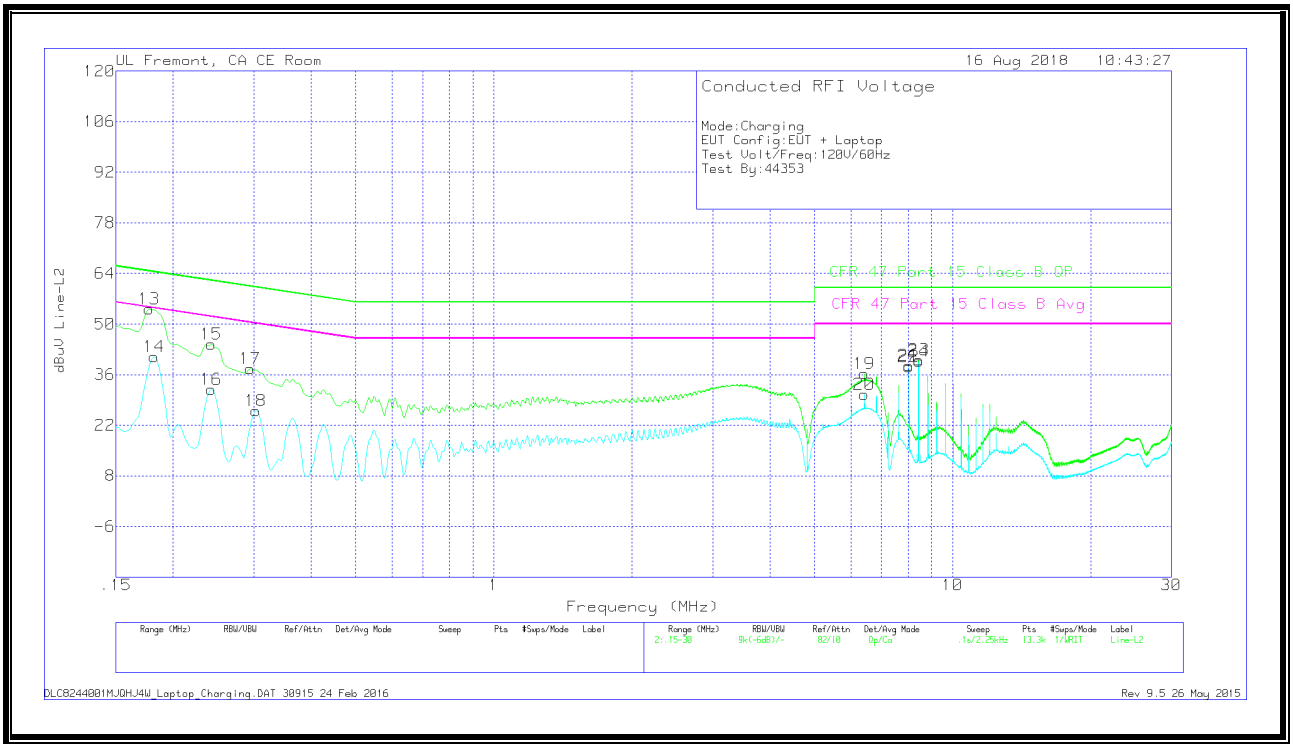
LINE 2 RESULTS



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	.177	44.08	Qp	0	0	10.1	54.18	64.63	-10.45	-	-
14	.1815	30.85	Ca	0	0	10.1	40.95	-	-	54.42	-13.47
15	.24225	34.28	Qp	0	0	10.1	44.38	62.02	-17.64	-	-
16	.24225	21.86	Ca	0	0	10.1	31.96	-	-	52.02	-20.06
17	.294	27.52	Qp	0	0	10.1	37.62	60.41	-22.79	-	-
18	.303	15.95	Ca	0	0	10.1	26.05	-	-	50.16	-24.11
19	6.42525	25.83	Qp	0	.2	10.2	36.23	60	-23.77	-	-
20	6.42525	20.08	Ca	0	.2	10.2	30.48	-	-	50	-19.52
21	8.03175	28.16	Qp	0	.2	10.2	38.56	60	-21.44	-	-
22	8.03175	27.75	Ca	0	.2	10.2	38.15	-	-	50	-11.85
23	8.4345	29.68	Qp	0	.2	10.2	40.08	60	-19.92	-	-
24	8.4345	29.29	Ca	0	.2	10.2	39.69	-	-	50	-10.31

Qp - Quasi-Peak detector

Ca - CISPR average detection

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