CERTIFICATION TEST REPORT

Report Number. : 12529284-E1V2

Applicant	:	APPLE, INC. ONE APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	:	A2086
FCC ID	:	BCGA2086
IC	:	579C-A2086
EUT Description	:	MAGNETIC CHARGING DOCK
Test Standard(s)	:	FCC 47 CFR PART 15 SUBPART C ISED RSS-216 ISSUE 2

Date Of Issue:
October 24, 2018

Prepared by:
UL Verification Services Inc.
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NVLAP TESTING

NVLAP Lab code: 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	10/23/2018	Initial Issue	Tony Li
V2	10/24/2018	Updated report Section 2 and 7 to address TCB's questions	Chin Pang

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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 DOCK

MODEL: A2086

SERIAL NUMBER: DLC8375002YK18N1P

DATE TESTED: SEPTEMBER 27 to SEPTEMBER 28, 2018

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC PART 15 SUBPART C	Complies
ISED RSS-210 Issue 9, Annex B	Complies
ISED RSS-GEN Issue 5	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

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 the U.S. government.

Approved & Released For
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Consumer Technology Division
UL Verification Services Inc.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with

- CAN/CSA-CEI/IEC CISPR 11:04 as referenced by ICES-001 Issue 4 as referenced by RSS-216 Issue 2 and/or correspondence with the ISED Canada Certification Bureau
- CISPR 11 Edition 6.1 as referenced by correspondence with the ISED Canada Certification Bureau.
- ANSI C63.10-2013, FCC CFR 47 Part 2, and FCC CFR 47 Part 15. RSS-GEN Issue 5

Specifically:

- CAN/CSA-CEI/IEC CISPR 11:04 Table 3b is applicable for emissions below 30 MHz from Wireless Power Transfer devices
- Radiated tests from 30- 1000 MHz were performed at a 3 meter distance in accordance with CISPR 11 Edition 6.1, with the application of the 3 meter limits as documented in CISPR 11 Edition 6.1 Table 12.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, 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	47658 Kato Rd
☐ Chamber A (ISED:2324B-1)	☐ Chamber D (ISED:22541-1)	☐ Chamber I (ISED:2324A-5)
☐ Chamber B (ISED:2324B-2)	☒ Chamber E (ISED:22541-2)	☐ Chamber J (ISED:2324A-6)
☐ Chamber C (ISED:2324B-3)	☐ Chamber F (ISED:22541-3)	☐ Chamber K (ISED:2324A-1)
	☐ Chamber G (ISED:22541-4)	☐ Chamber L (ISED:2324A-3)
	☐ Chamber H (ISED:22541-5)	

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

RADIATED EMISSIONS

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

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:
Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

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

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

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a magnetic charging device 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.

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	-25.78	10.49
326.5	Operating	-24.88	4.61

5.3. SOFTWARE AND FIRMWARE

The firmware version installed in the EUT during testing was 9.1.0

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 examining on the following configuration.

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

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

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The EUT was investigated in two orthogonal orientations X (flatbed) and Y (tilt).
For below 30MHz & 1GHz tests, the EUT was connected to an AC power adapter as the worst case.
EUT was tested as standby and operation modes. For worst case 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 were observed between both watches. However, the big watch was chosen to test as the worst case condition since it has max overall load, 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

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
AC/DC adapter	Apple	A1385	N/A	N/A
Watch	Apple	A1978	D92X300KKTKH	BCG-A1978
Laptop	Apple	MacBook Pro	C02WW05BKGHJ	FCC DoC
Laptop Adapter	Apple	A1718	C4H7366020UGN8RA4	N/A

I/O CABLES

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	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.

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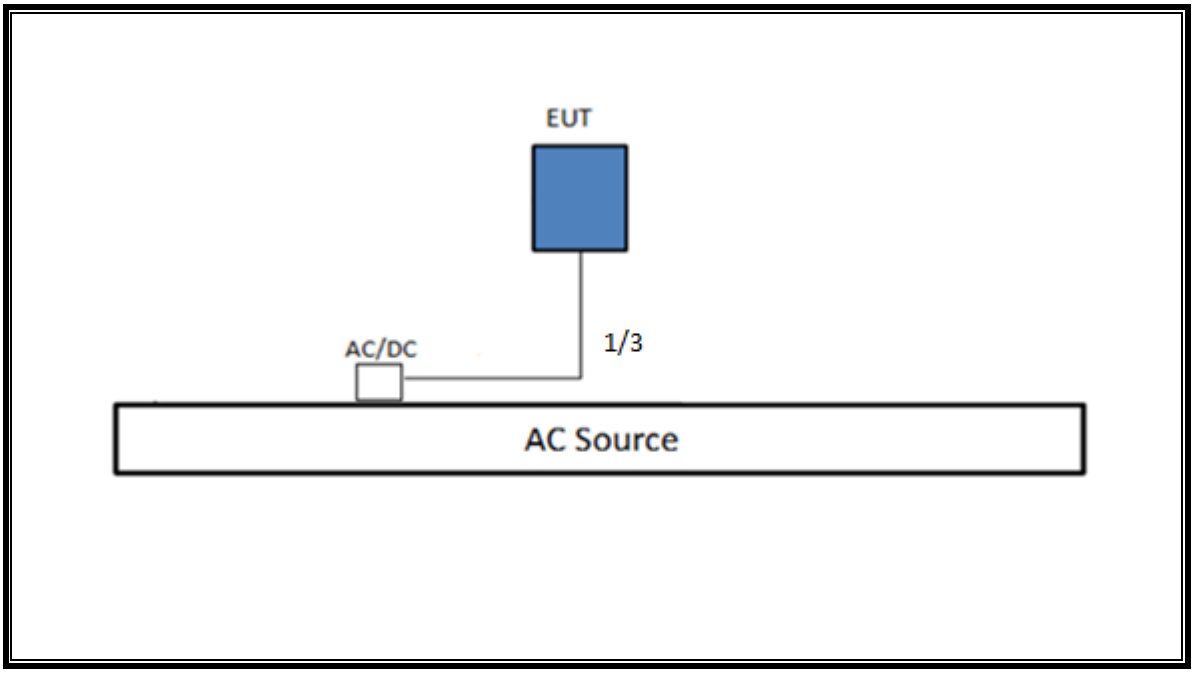
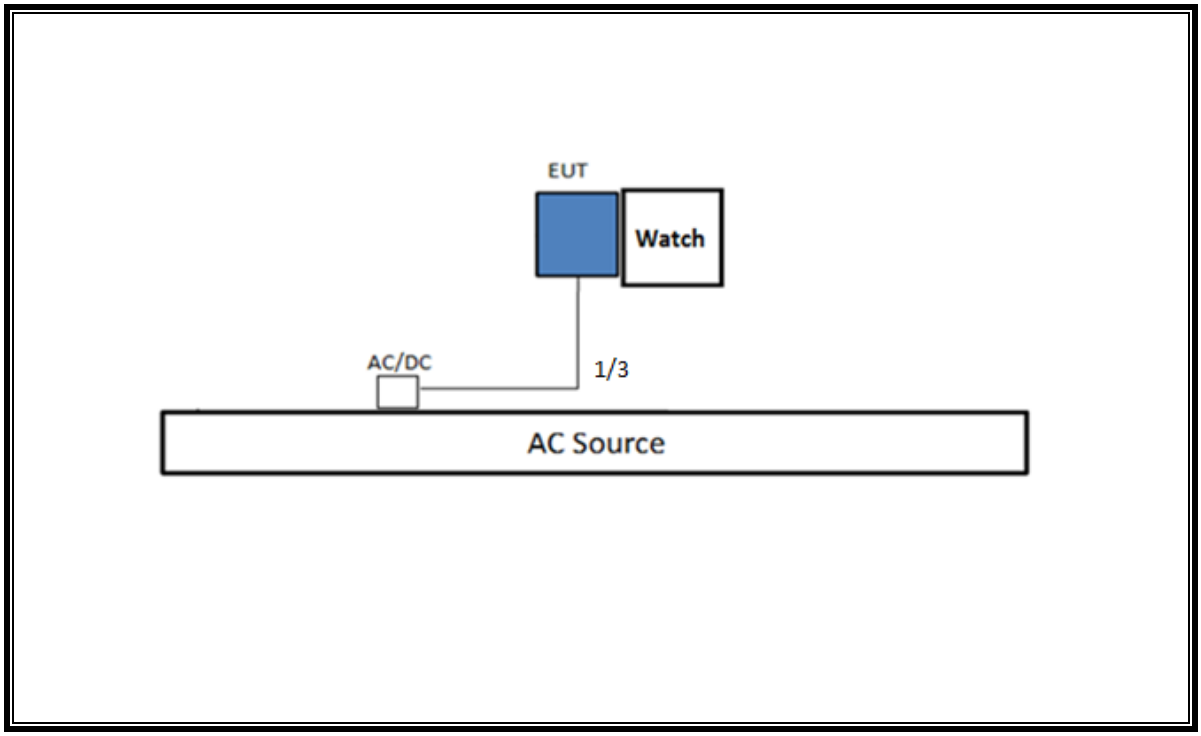
CONFIGURATION 1: STANDBY MODE



CONFIGURATION 2: OPERATING MODE WITH WATCH



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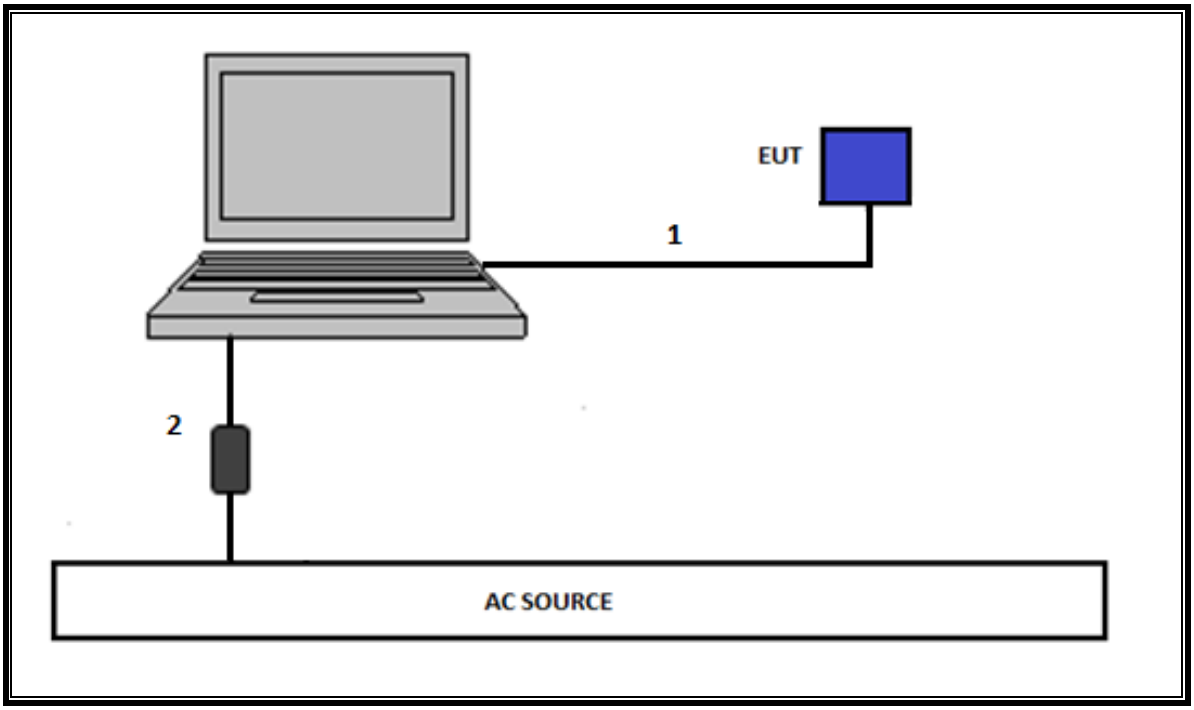
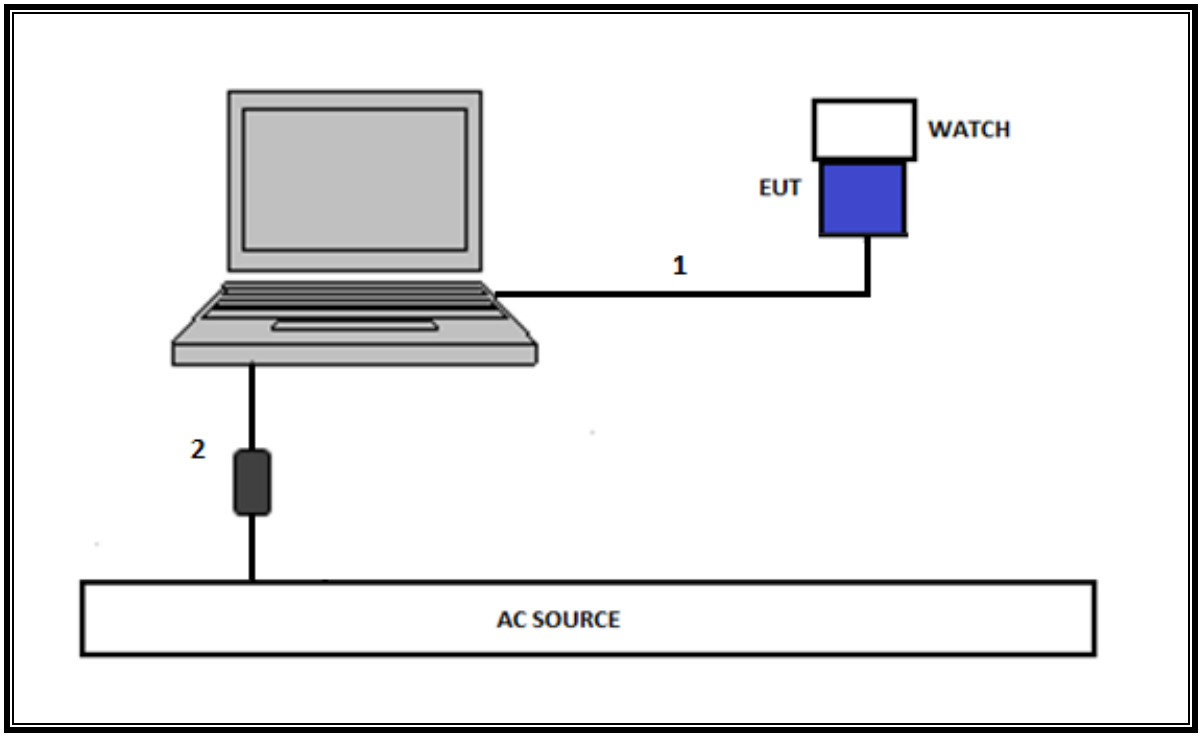
CONFIGURATION 3: STANDBY MODE BY HOST PC VIA USB CABLE



CONFIGURATION 4: 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	09/14/2019
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	06/19/2019

UL SOFTWARE			
Radiated Software	UL	UL EMC	Ver. 9.5, April 26, 2016
AC Line Conducted Software	UL	UL EMC	Ver 9.5, May 26, 2015

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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

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

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.

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

RESULTS

ID:	38602	**Date:**	09/28/2018

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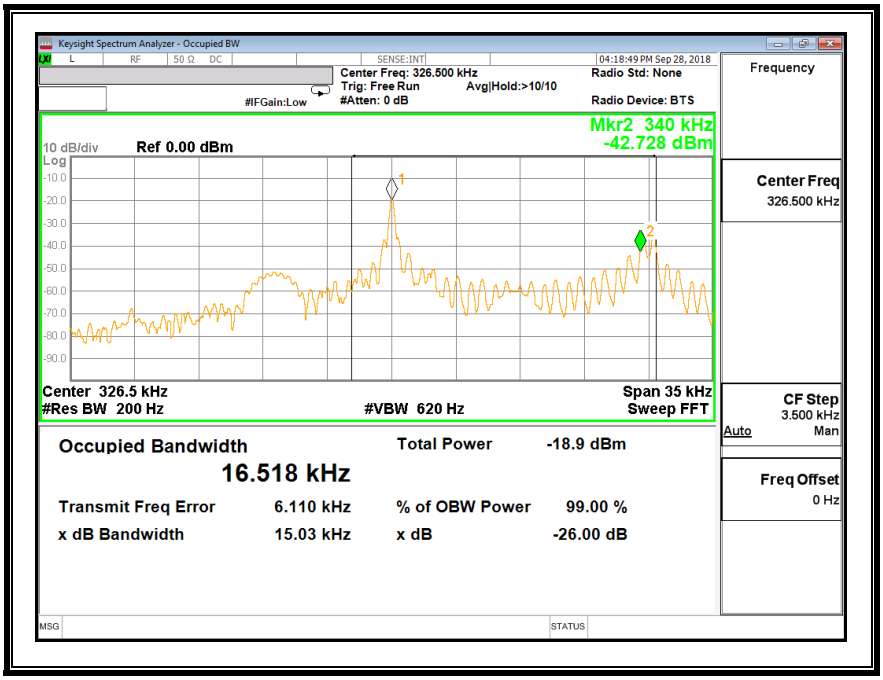
7.1.1. Standby Mode

7.1.2. Charger in Pairing mode



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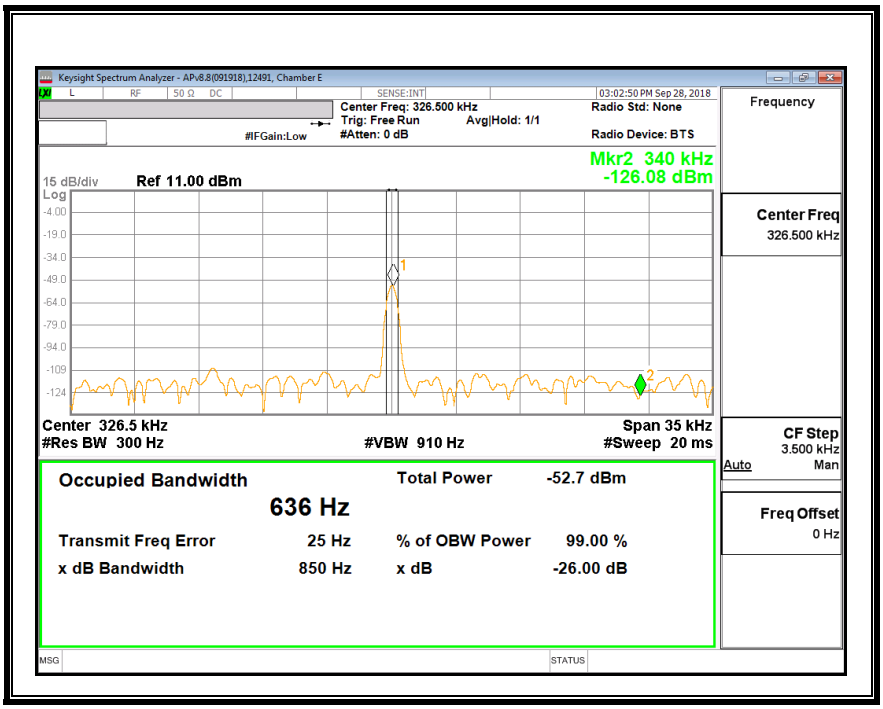
7.1.3. Charger in Charging mode



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8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

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

Table 3b

Frequency range (MHz)	Limits in dB(µA/m) at 3 m distance Quasi-peak
0,009 to 0,070	69
0,070 to 0,1485	69 Decreasing linearly with the logarithm of frequency to 39
0,1485 to 4,0	39 Decreasing linearly with the logarithm of frequency to 3
4,0 to 30	3
NOTE The limits of Table 3b apply to induction cooking appliances for commercial use and those for domestic use with a diagonal diameter of more than 1,6 m. Measurements are performed at 3 m distance with a 0,6 m loop antenna as described in 5.5.2.1 of CISPR 16-1. The antenna shall be vertically installed, with the lower edge of the loop at 1 m height above the floor.	

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FCC LIMIT

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

ISED LIMIT

CISPR 11 Edition 6.1, Table 12 (excerpted portion below is applicable to 30-1000 MHz range) can be applied as long as the EUT complies with the size restrictions of CISPR 11 Edition 6.1, Clause 3.1.7 **small size equipment;** equipment, either positioned on a table top or standing on the floor which, including its cables fits in an imaginary cylindrical test volume of 1,2 m in diameter and 1,5 m height (to ground plane)

Electromagnetic radiation disturbance limits for class B group 2 equipment at measuring distance of 3 m			
Frequency range (MHz)	Electric Field		Magnetic Field
	Quasi-peak limits (dBµV/m)	Average limits [a] (dBµV/m)	Quasi-peak limits dB(µA/m)
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	-

Note: The lower limit shall apply at the transition frequency

[a] The average limits apply to magnetron driven equipment and microwave ovens only. If magnetron driven equipment or microwave ovens exceed the quasi-peak limit at certain frequencies, then the measurement shall be repeated at these frequencies with the average detector and the average limits specified in this table apply.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10.

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

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

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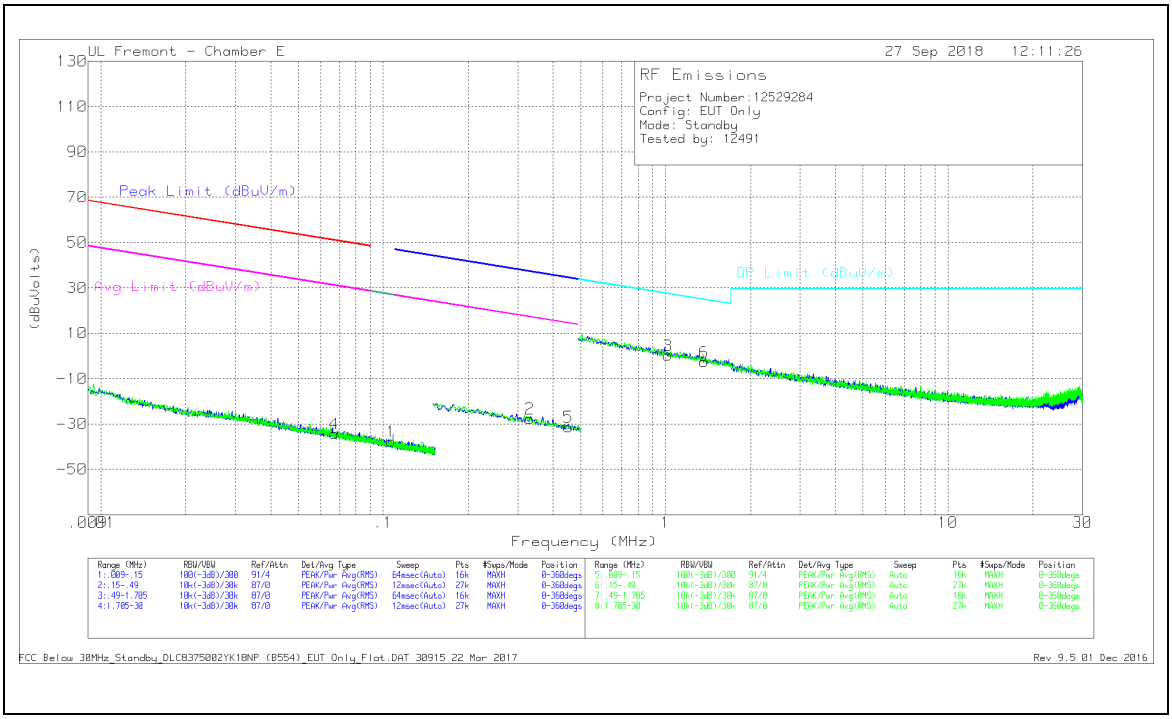
RESULTS

8.2. FLATBED ORIENTATION

8.2.1. STANDBY CONFIGURATION

FCC TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	.06712	33.96	Pk	11.6	.1	-80	-34.34	51.05	-85.39	31.05	-65.39	-	-	0-360
1	.10687	31.11	Pk	11.1	.1	-80	-37.69	-	-	-	-	27.04	-64.73	0-360
2	.33022	41.36	Pk	10.9	.1	-80	-27.64	37.23	-64.87	17.23	-44.87	-	-	0-360
5	.45278	37.58	Pk	11	.1	-80	-31.32	34.49	-65.81	14.49	-45.81	-	-	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)
3	1.01774	28.67	Pk	11.3	.2	-40	.17	27.47	-27.3	0-360
6	1.36833	25.87	Pk	11.3	.2	-40	-2.63	24.91	-27.54	0-360

Pk - Peak detector

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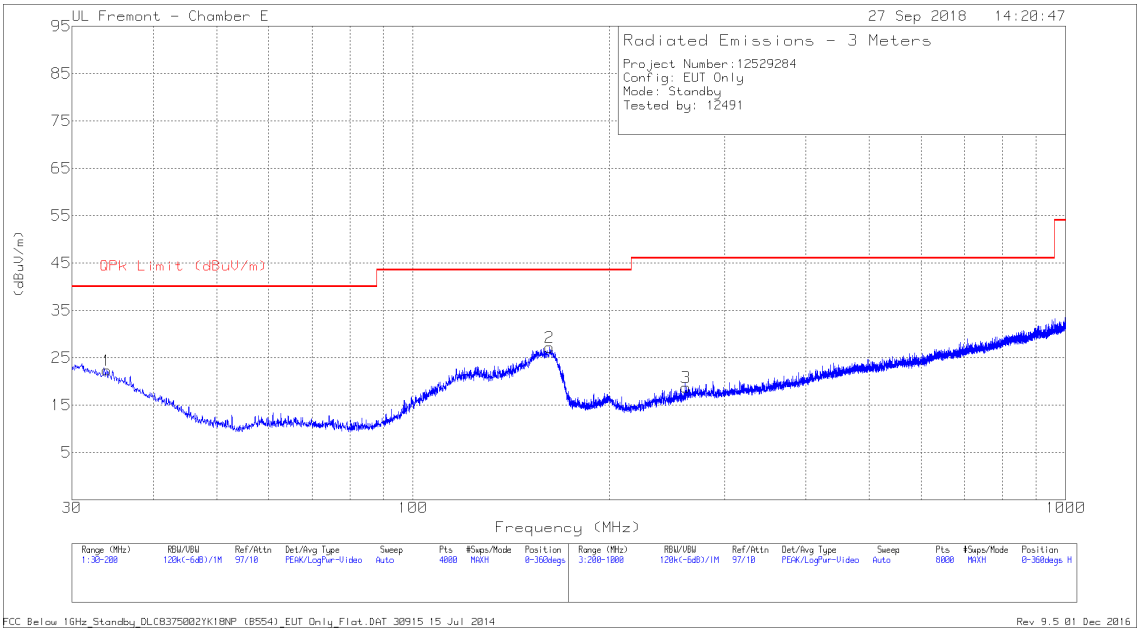
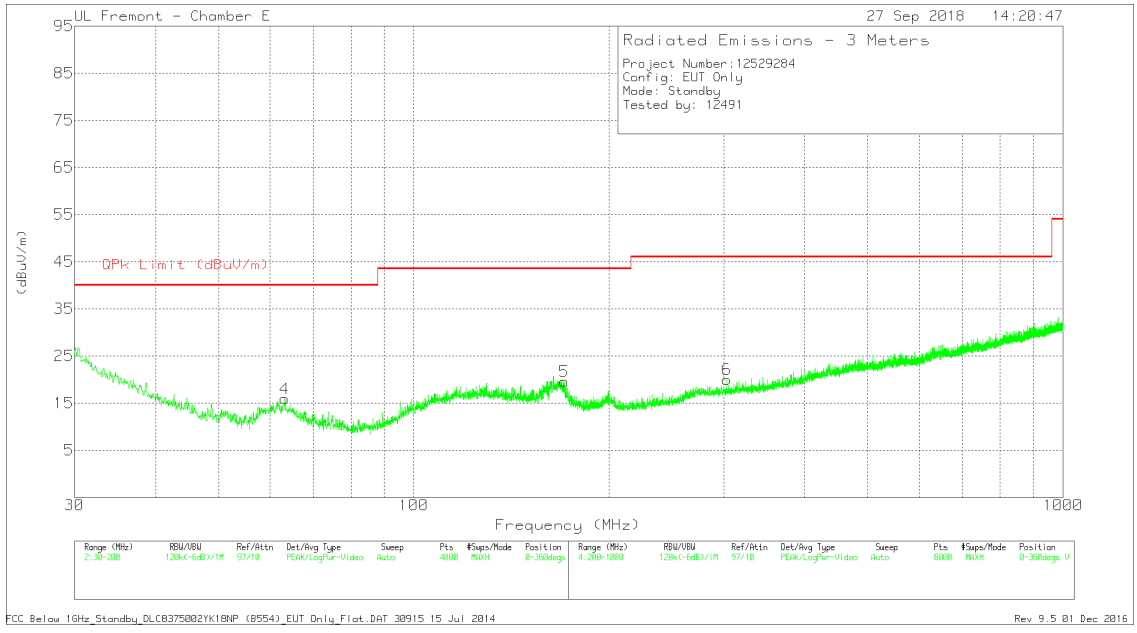
FCC SPURIOUS EMISSION 30 To 1000 MHz

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
5	* 170.6264	31.82	Pk	17.9	-30.1	19.62	43.52	-23.9	0-360	100	V
3	* 261.908	30.04	Pk	18.3	-29.6	18.74	46.02	-27.28	0-360	100	H
1	33.9535	29.72	Pk	24.1	-31.5	22.32	40	-17.68	0-360	299	H
4	63.2861	32.86	Pk	14.2	-31.1	15.96	40	-24.04	0-360	100	V
2	161.9541	39.38	Pk	18.1	-30.3	27.18	43.52	-16.34	0-360	199	H
6	303.4134	29.93	Pk	19.4	-29.3	20.03	46.02	-25.99	0-360	200	V

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

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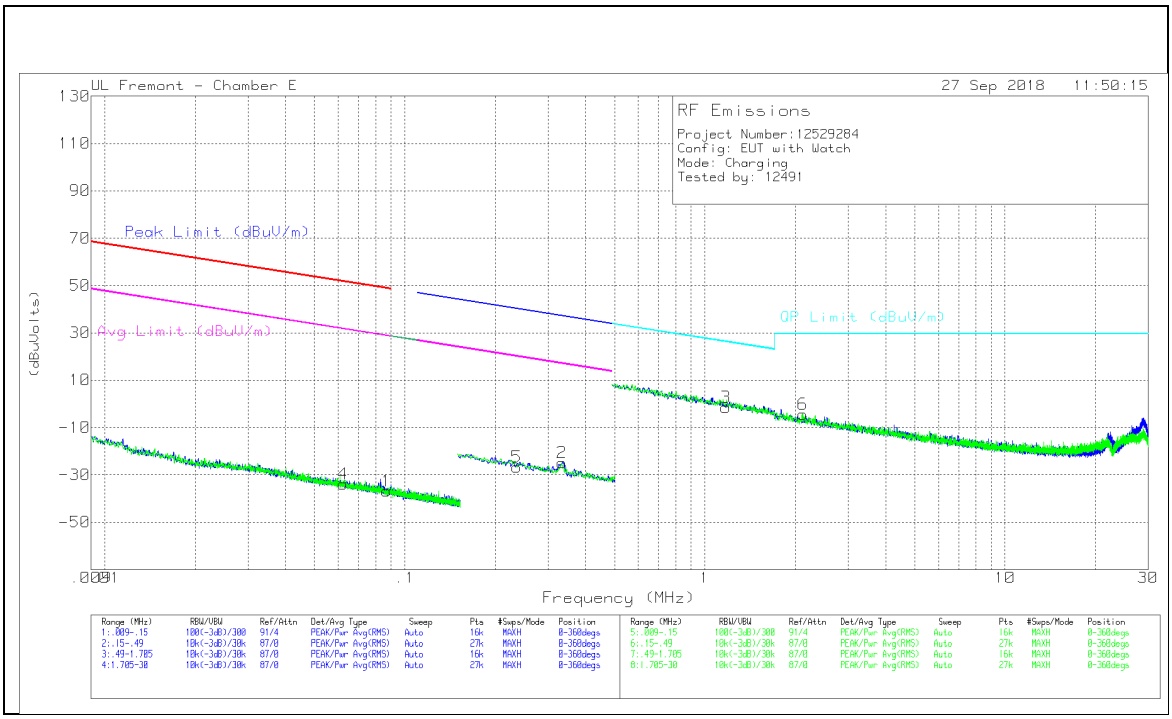
8.2.3. OPERATIING WITH WATCH

FCC FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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	.06215	34.32	Pk	11.7	.1	-80	-33.88	51.72	-85.6	31.72	-65.6	0-360
1	.08683	31.5	Pk	11.5	.1	-80	-36.9	48.81	-85.71	28.81	-65.71	0-360
5	.23602	42.25	Pk	11	.1	-80	-26.65	40.16	-66.81	20.16	-46.81	0-360
2	.33422	44.12	Pk	10.9	.1	-80	-24.88	37.13	-62.01	17.13	-42.01	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	1.17366	27.13	Pk	11.3	.2	-40	-1.37	26.23	-27.6	0-360
6	2.12106	23.98	Pk	11.4	.3	-40	-4.32	29.5	-33.82	0-360

Pk - Peak detector

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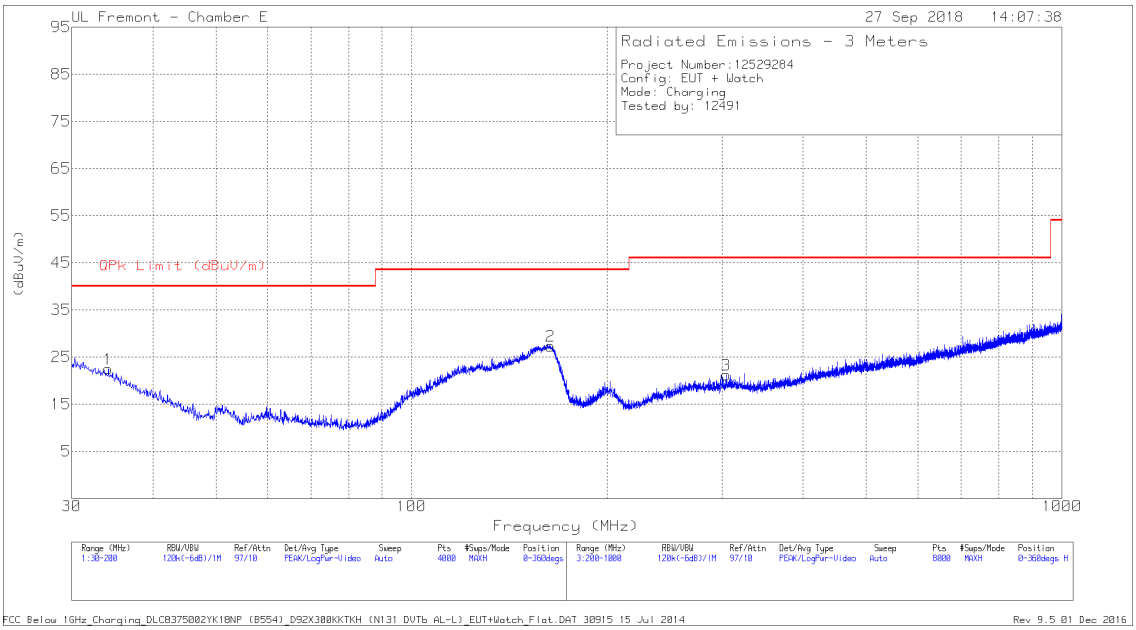
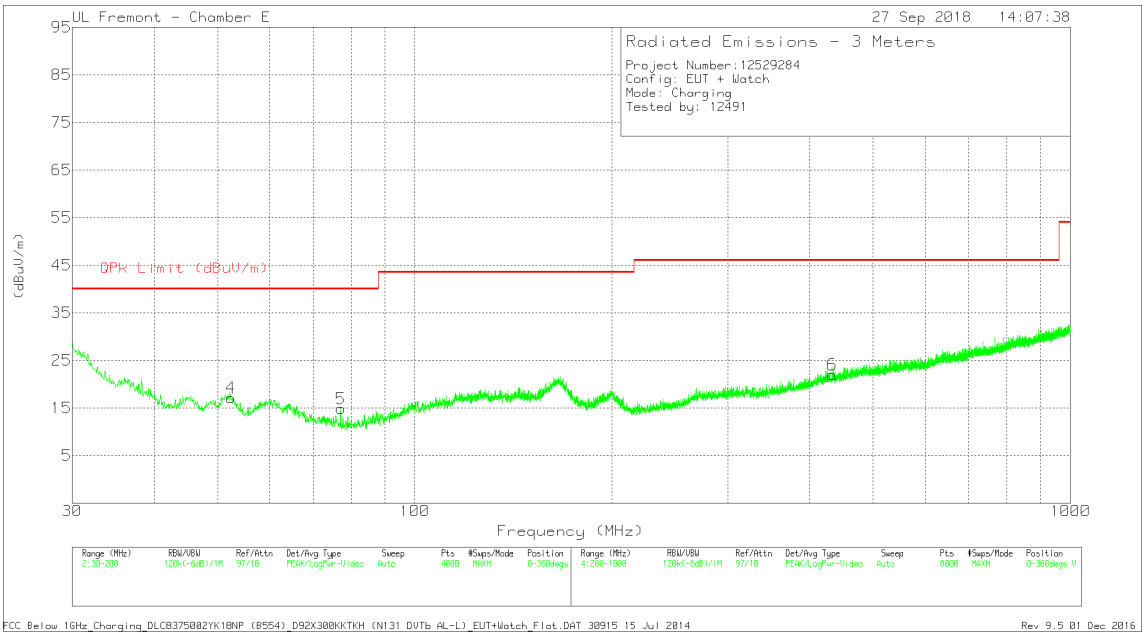
HORIZONTAL PLOT



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	* 163.6546	39.39	Pk	18.1	-30.2	27.29	43.52	-16.23	0-360	200	H
1	34.1661	29.97	Pk	24	-31.5	22.47	40	-17.53	0-360	399	H
4	52.4458	34.94	Pk	13.5	-31.3	17.14	40	-22.86	0-360	100	V
5	77.0597	32.37	Pk	13.5	-31	14.87	40	-25.13	0-360	100	V
3	304.8136	30.98	Pk	19.4	-29.2	21.18	46.02	-24.84	0-360	100	H
6	433.2303	28.02	Pk	22.4	-28.4	22.02	46.02	-24	0-360	200	V

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

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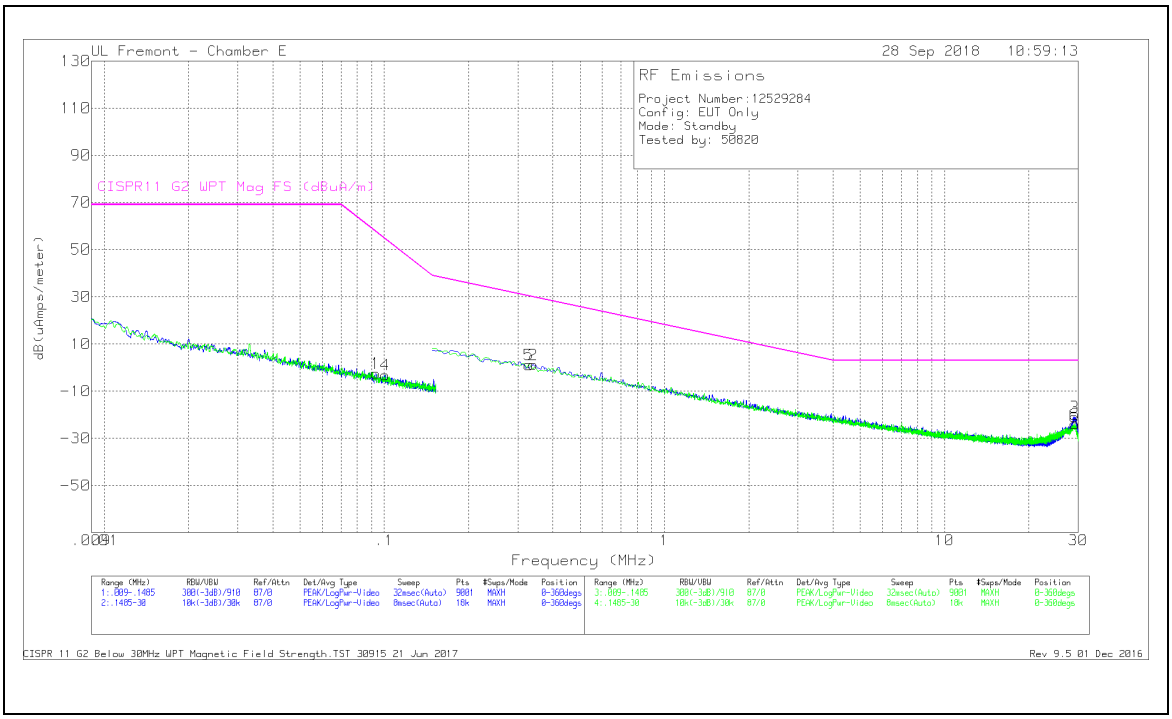
8.2.4. STANDBY CONFIGURATION, IC / CISPR 11

TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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	* .09343	37.21	Pk	-39.7	.1	-2.39	57.48	-59.87	0-360
4	* .10088	36.83	Pk	-40	.1	-3.07	54.42	-57.49	0-360
5	.32839	41.61	Pk	-40.5	.1	1.21	30.33	-29.12	0-360
2	.34083	41.63	Pk	-40.5	.1	1.23	29.92	-28.69	0-360
3	29.11791	21.09	Pk	-43	1	-20.91	3	-23.91	0-360
6	29.2091	18.17	Pk	-43	1	-23.83	3	-26.83	0-360

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

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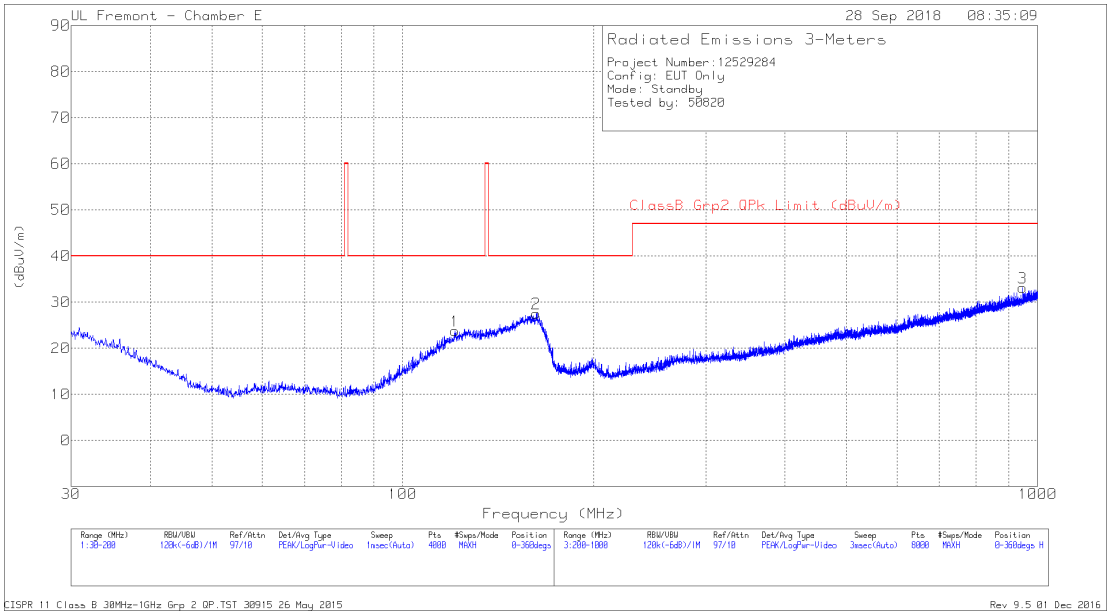
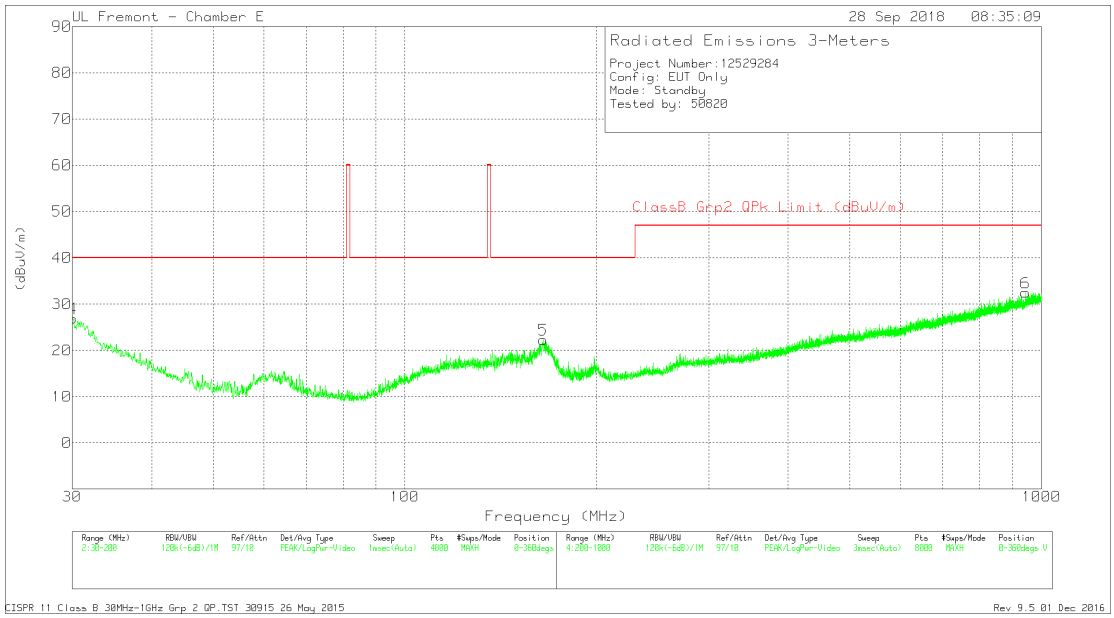
IC / CISPR 11 TX SPURIOUS EMISSION 30 To 1000 MHz

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	30.0425	31.81	Pk	26.7	-31.6	26.91	40	-13.09	0-360	100	V
1	120.8248	34.35	Pk	20	-30.6	23.75	40	-16.25	0-360	300	H
2	162.1029	39.76	Pk	18.1	-30.3	27.56	40	-12.44	0-360	199	H
5	164.8024	34.42	Pk	18.1	-30.2	22.32	40	-17.68	0-360	100	V
6	944.0967	29.23	Pk	28.5	-25.2	32.53	47	-14.47	0-360	200	V
3	946.597	29.63	Pk	28.7	-25.2	33.13	47	-13.87	0-360	399	H

Pk - Peak detector

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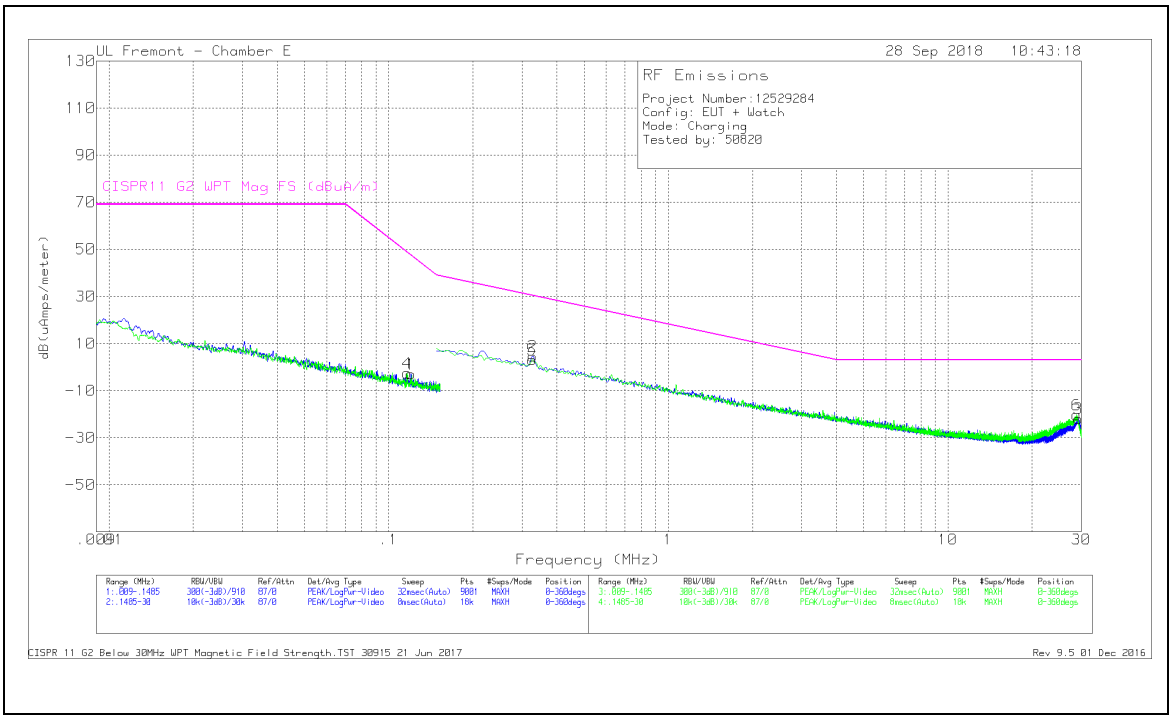
8.2.5. OPERATING WITH WATCH, IC / CISPR 11

TX FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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	.11635	37.36	Pk	-40	.1	-2.54	48.73	-51.27	0-360
1	.1202	37.03	Pk	-40.1	.1	-2.97	47.43	-50.4	0-360
5	.32591	43.55	Pk	-40.5	.1	3.15	30.41	-27.26	0-360
2	.32756	45.01	Pk	-40.5	.1	4.61	30.35	-25.74	0-360
6	28.82361	21.63	Pk	-42.9	1	-20.27	3	-23.27	0-360
3	29.27873	20.29	Pk	-43.1	1	-21.81	3	-24.81	0-360

Pk - Peak detector

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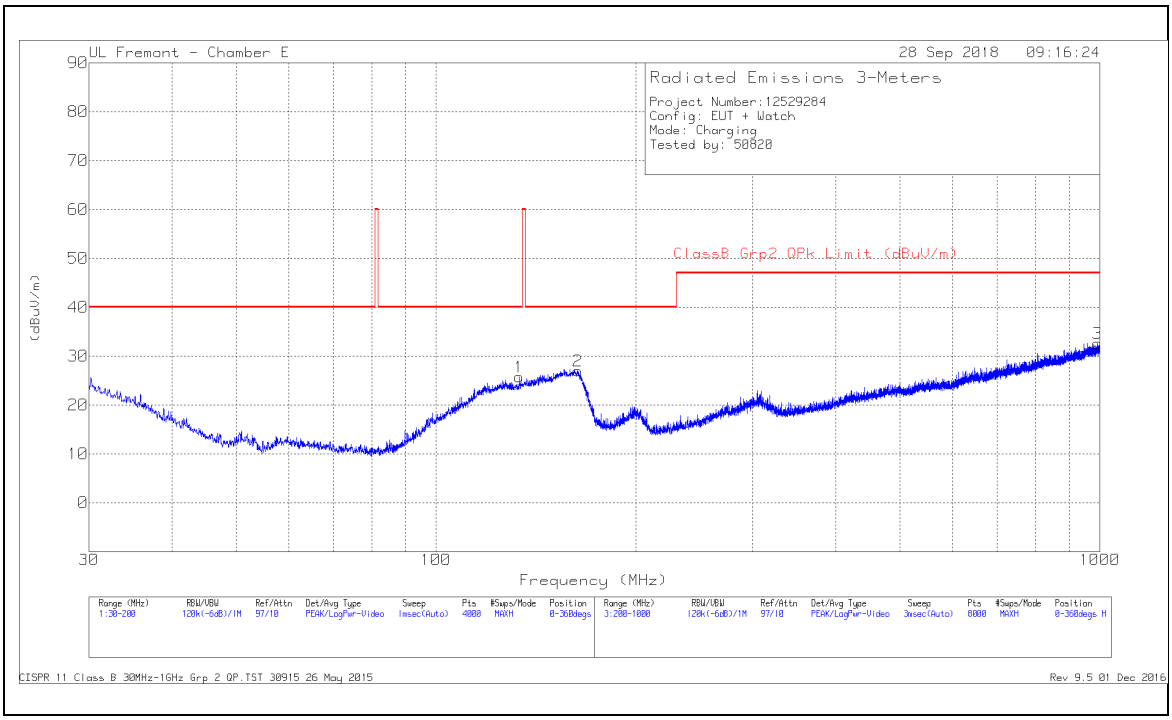
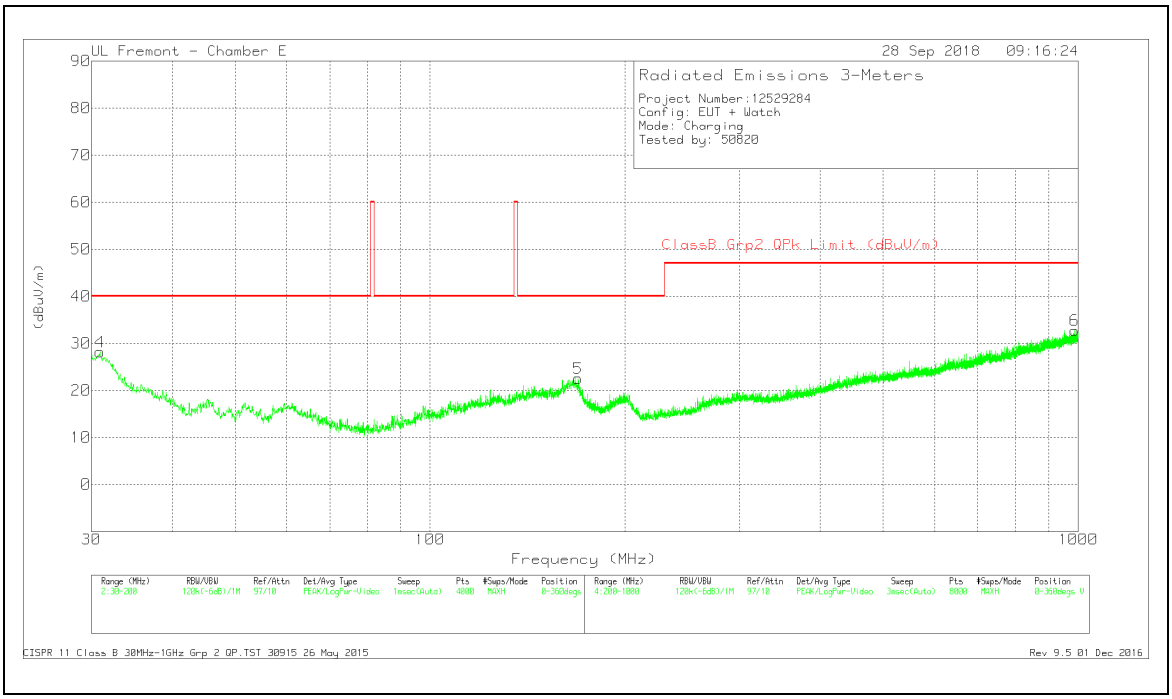
HORIZONTAL PLOT



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	30.9352	33.27	Pk	26.5	-31.6	28.17	40	-11.83	0-360	100	V
1	133.4718	36.4	Pk	19.8	-30.5	25.7	40	-14.3	0-360	200	H
2	163.4208	39.07	Pk	18.1	-30.2	26.97	40	-13.03	0-360	200	H
5	169.2235	34.74	Pk	18	-30.2	22.54	40	-17.46	0-360	100	V
6	986.7023	28.48	Pk	29	-24.7	32.78	47	-14.22	0-360	300	V
3	992.703	27.95	Pk	29.1	-24.5	32.55	47	-14.45	0-360	400	H

Pk - Peak detector

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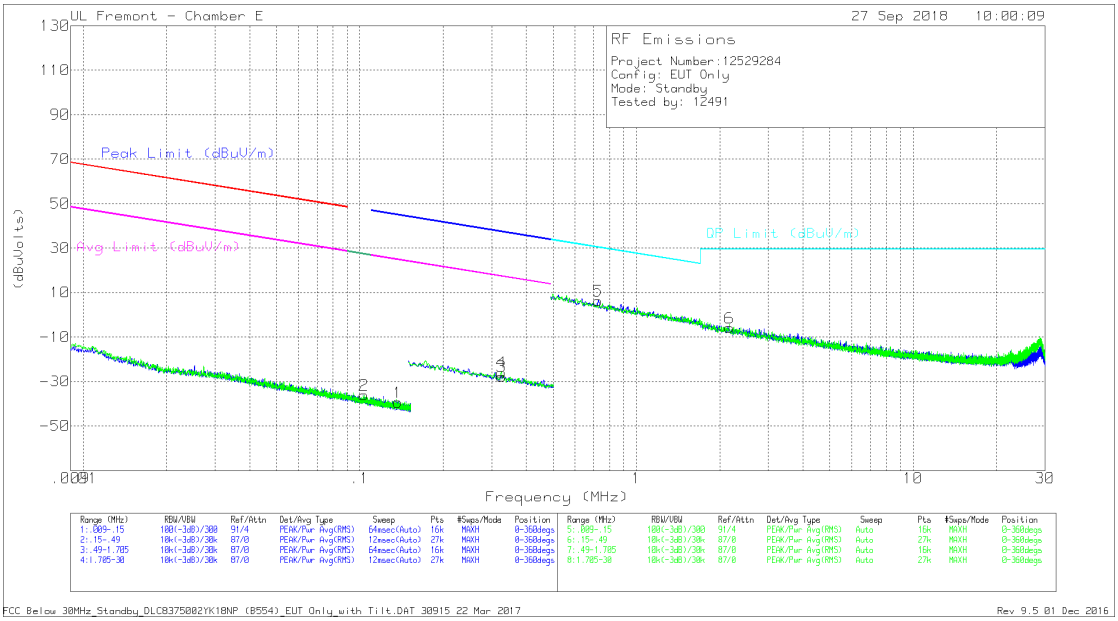
8.3. TILT ORIENTATION

8.3.1. STANDBY CONFIGURATION

FCC FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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)
2	.10356	32.79	Pk	11.1	.1	-80	-36.01	27.31	-63.32	-	-	-	-	0-360
1	.13715	29.47	Pk	11.1	.1	-80	-39.33	-	-	44.88	-84.21	24.88	-64.21	0-360
3	.32517	41.39	Pk	10.9	.1	-80	-27.61	-	-	37.37	-64.98	17.37	-44.98	0-360
4	.32519	43.22	Pk	10.9	.1	-80	-25.78	-	-	37.37	-63.15	17.37	-43.15	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	.72742	35.16	Pk	11	.2	-40	6.36	30.38	-24.02	0-360
6	2.17031	22.47	Pk	11.4	.3	-40	-5.83	29.5	-35.33	0-360

Pk - Peak detector

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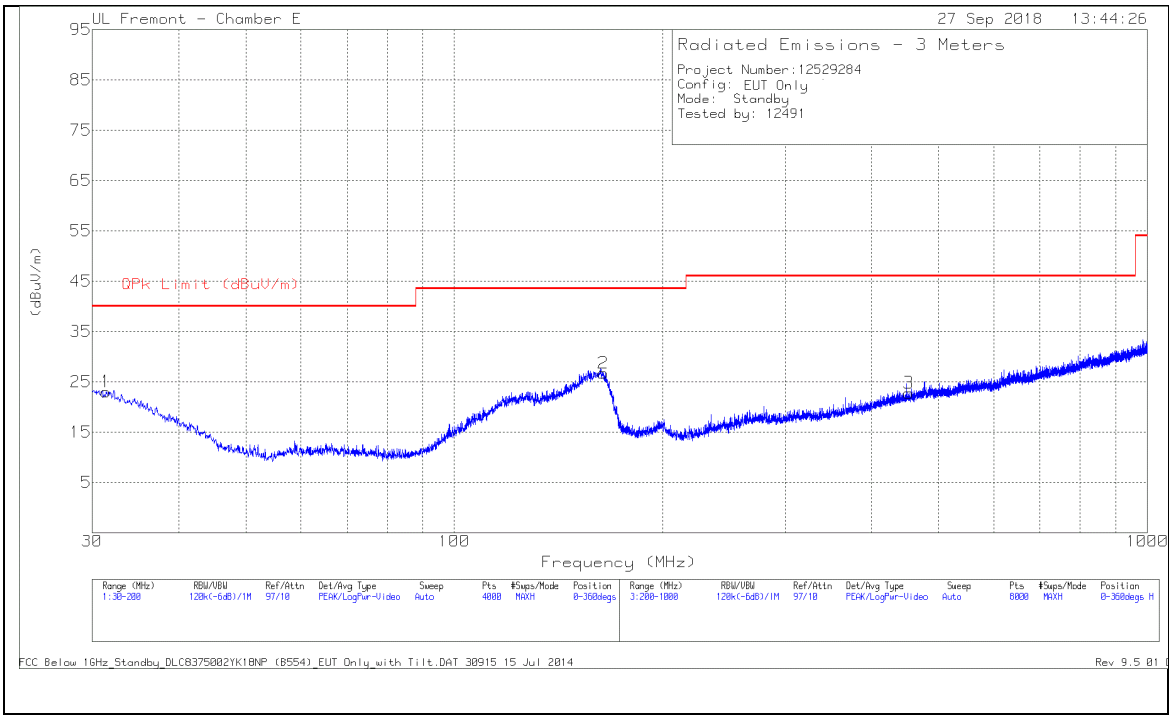
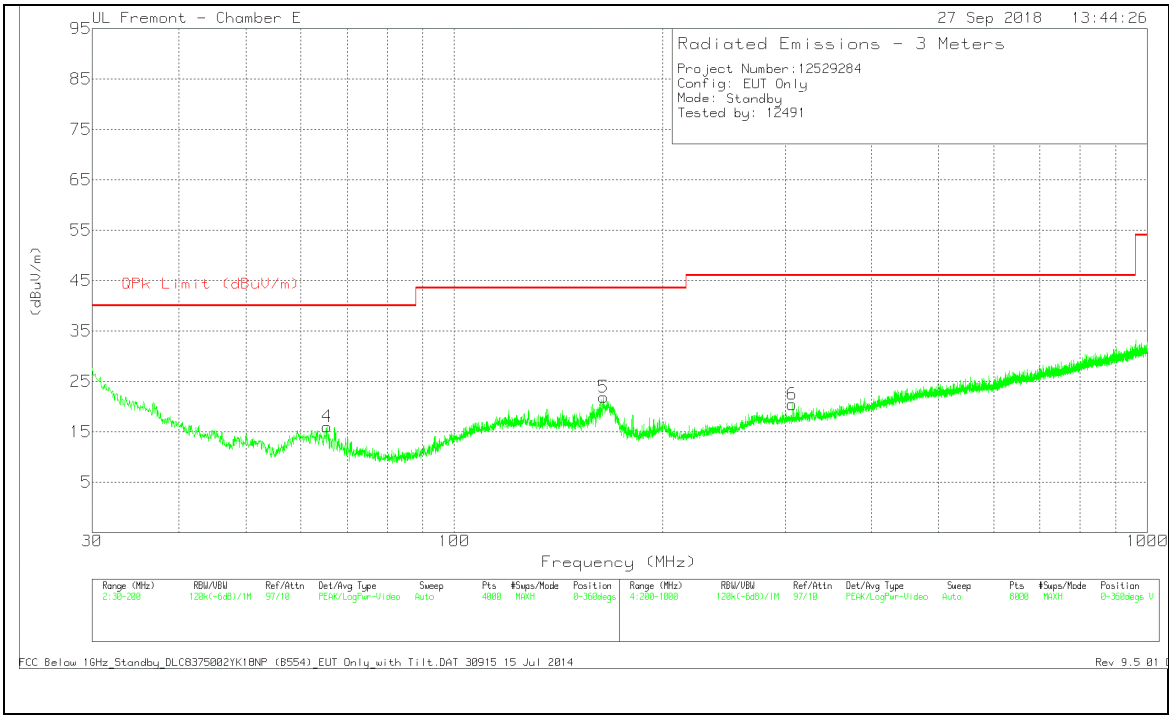
FCC TX SPURIOUS EMISSION 30 To 1000 MHz

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	* 164.0372	38.8	Pk	18.1	-30.2	26.7	43.52	-16.82	0-360	200	H
5	* 164.2497	33.97	Pk	18.1	-30.2	21.87	43.52	-21.65	0-360	100	V
1	31.4454	28.5	Pk	26.1	-31.6	23	40	-17	0-360	300	H
4	65.4967	32.81	Pk	14.3	-31.1	16.01	40	-23.99	0-360	100	V
6	307.3139	29.93	Pk	19.5	-29	20.43	46.02	-25.59	0-360	100	V
3	452.6328	28.35	Pk	22.8	-28.4	22.75	46.02	-23.27	0-360	100	H

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

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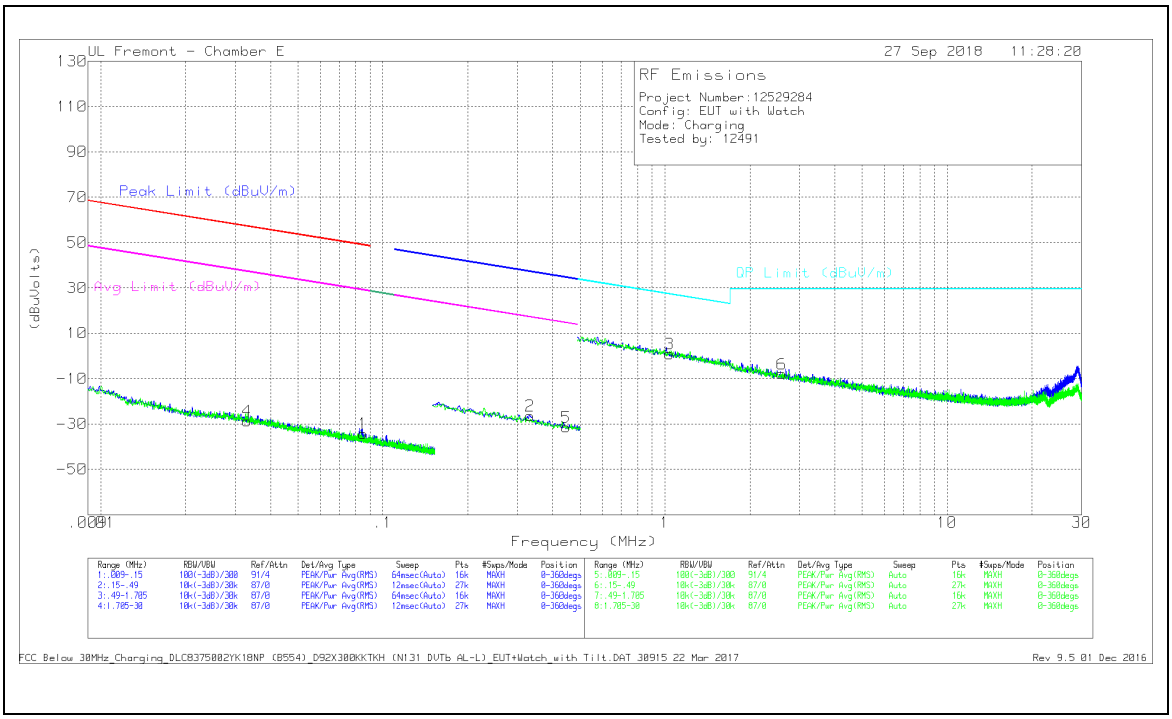
8.3.2. OPERATIING WITH WATCH

FCC FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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	.03308	37.7	Pk	13.5	.1	-80	-28.7	57.19	-85.89	37.19	-65.89	0-360
1	.08518	34.23	Pk	11.5	.1	-80	-34.17	48.98	-83.15	28.98	-63.15	0-360
2	.33283	42.61	Pk	10.9	.1	-80	-26.39	37.17	-63.56	17.17	-43.56	0-360
5	.44624	37.43	Pk	11	.1	-80	-31.47	34.61	-66.08	14.61	-46.08	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)
3	1.03712	29.44	Pk	11.3	.2	-40	.94	27.31	-26.37	0-360
6	2.59685	20.47	Pk	11.3	.3	-40	-7.93	29.5	-37.43	0-360

Pk - Peak detector

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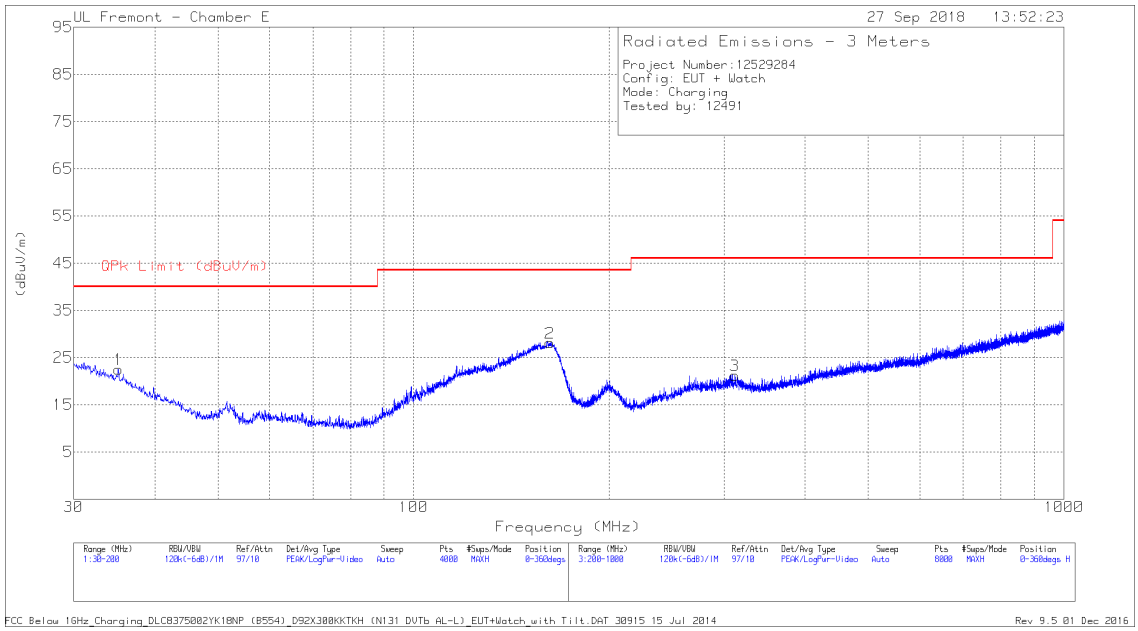
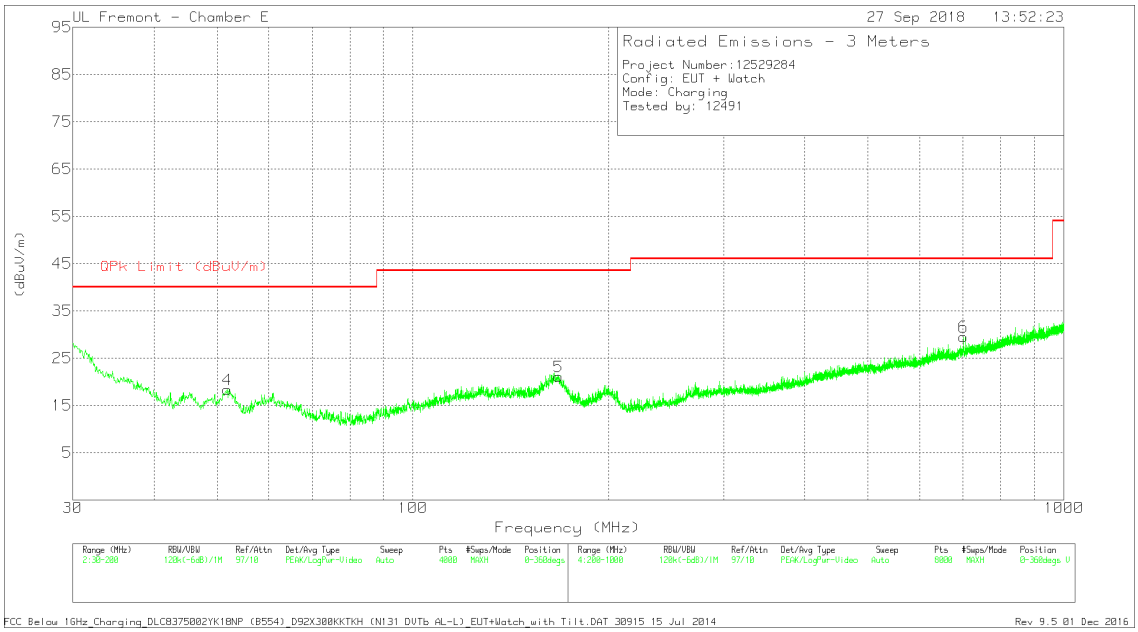
HORIZONTAL PLOT



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	* 162.0392	40.29	Pk	18.1	-30.3	28.09	43.52	-15.43	0-360	200	H
1	35.1438	30.39	Pk	23.6	-31.5	22.49	40	-17.51	0-360	400	H
4	51.8507	36.13	Pk	13.5	-31.3	18.33	40	-21.67	0-360	100	V
5	167.353	33.3	Pk	18	-30.2	21.1	43.52	-22.42	0-360	100	V
3	311.9145	30.77	Pk	19.6	-29.2	21.17	46.02	-24.85	0-360	100	H
6	700.8651	30.41	Pk	26.1	-27	29.51	46.02	-16.51	0-360	200	V

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

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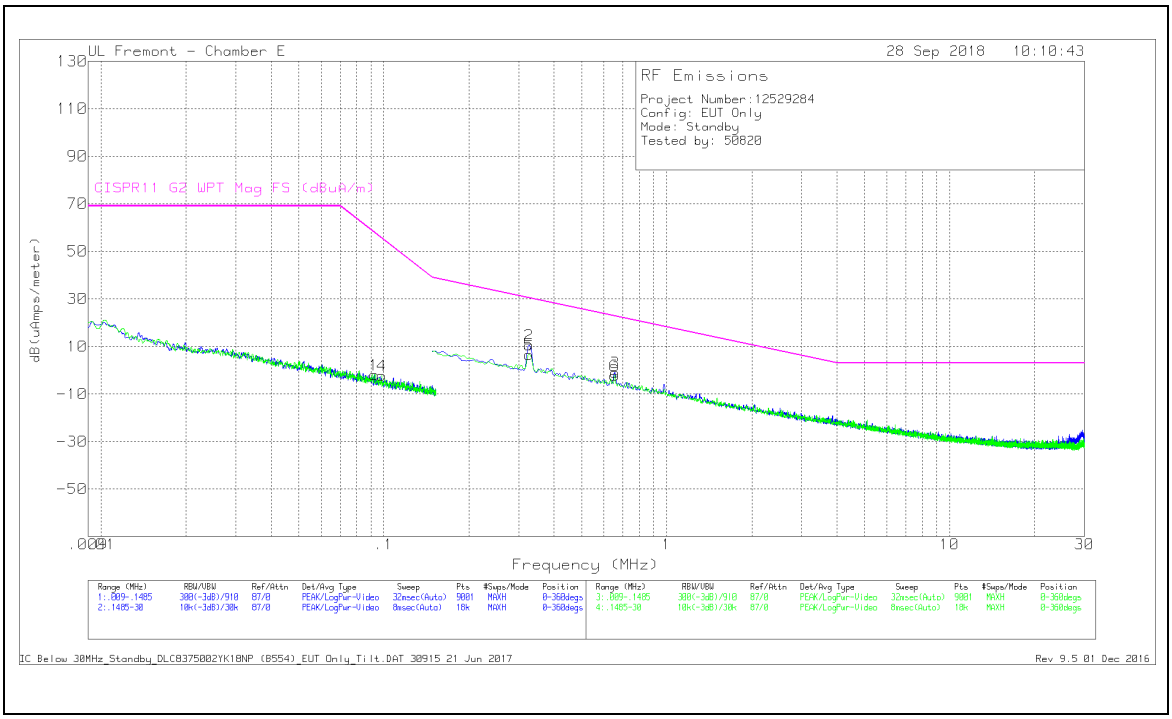
8.3.3. STANDBY CONFIGURATION, IC / CISPR 11

FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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	* .09263	37.48	Pk	-39.6	.1	-2.02	57.83	-59.85	0-360
4	* .09834	37.61	Pk	-39.9	.1	-2.19	55.44	-57.63	0-360
2	.32591	50.89	Pk	-40.5	.1	10.49	30.41	-19.92	0-360
5	.32591	47.04	Pk	-40.5	.1	6.64	30.41	-23.77	0-360
6	.65502	38	Pk	-40.4	.2	-2.2	22.78	-24.98	0-360
3	.65585	39.19	Pk	-40.4	.2	-1.01	22.76	-23.77	0-360

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

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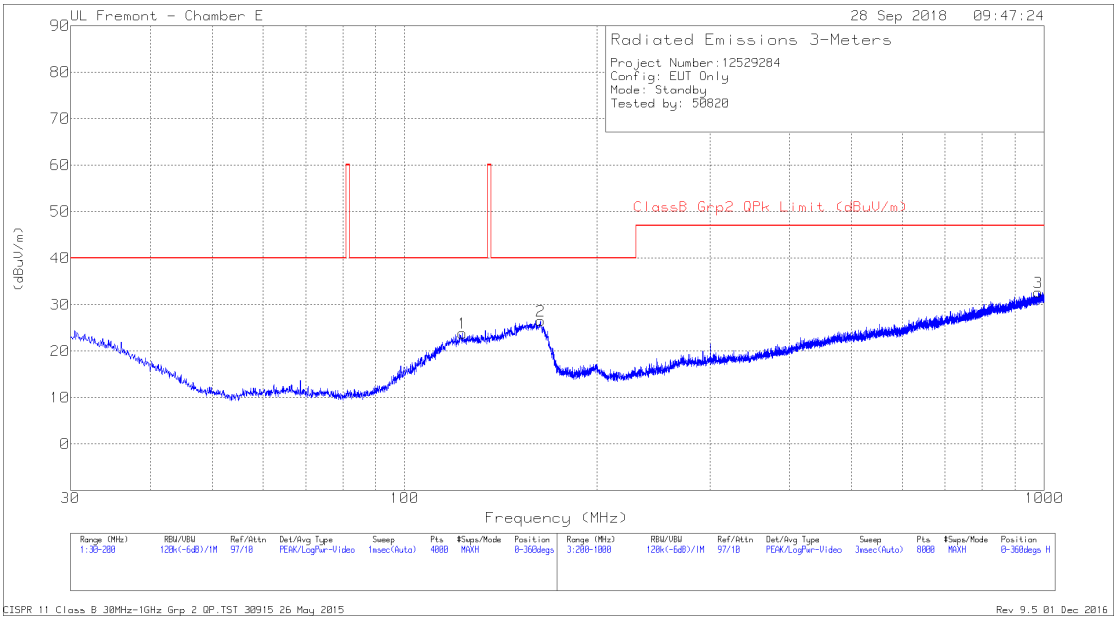
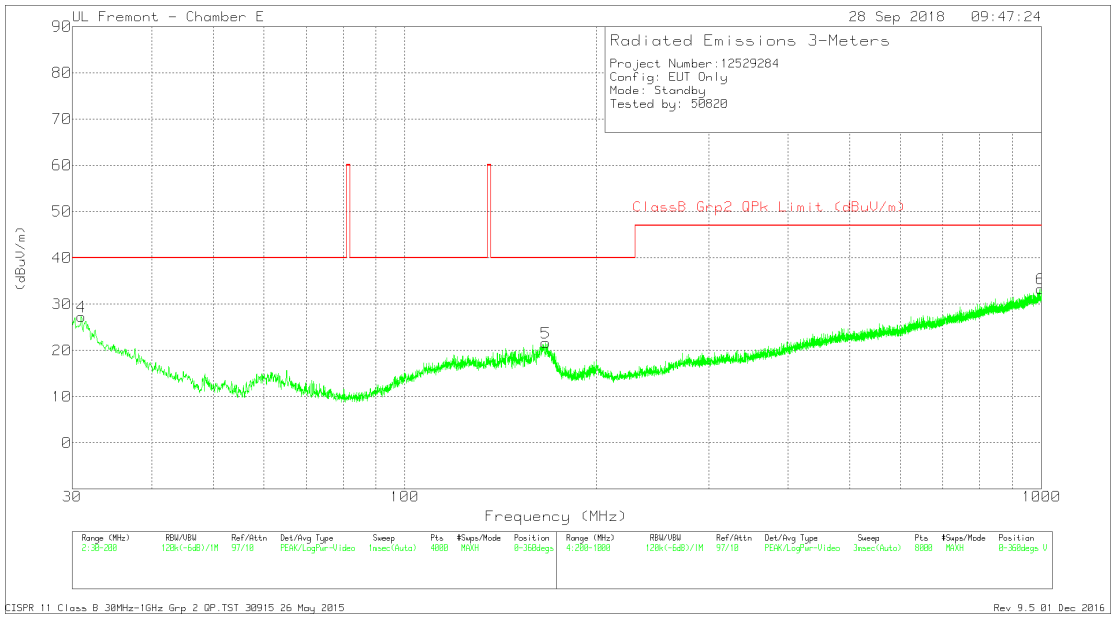
IC / CISPR 11 TX SPURIOUS EMISSION 30 To 1000 MHz

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	31.0203	32.41	Pk	26.5	-31.6	27.31	40	-12.69	0-360	100	V
1	123.0566	34.45	Pk	20	-30.6	23.85	40	-16.15	0-360	199	H
2	163.272	38.6	Pk	18.1	-30.2	26.5	40	-13.5	0-360	199	H
5	166.4603	33.84	Pk	18	-30.2	21.64	40	-18.36	0-360	100	V
3	978.9012	28.42	Pk	28.9	-24.7	32.62	47	-14.38	0-360	300	H
6	997.5037	28.53	Pk	29.3	-24.5	33.33	47	-13.67	0-360	199	V

Pk - Peak detector

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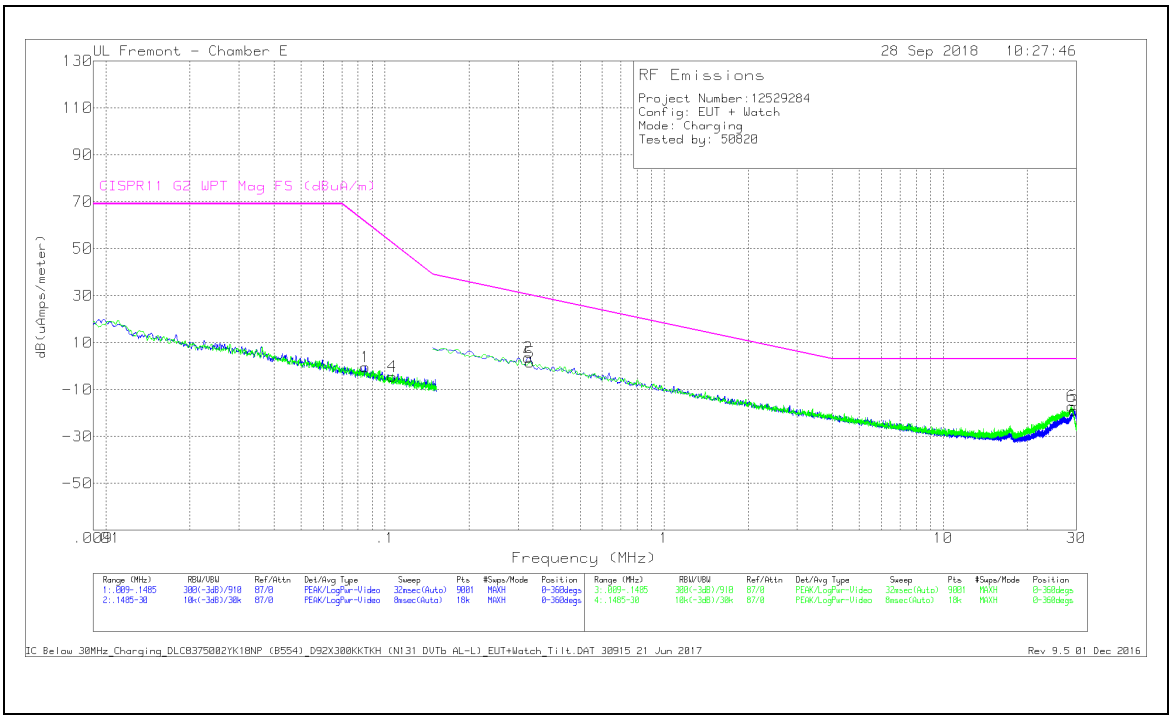
8.3.4. OPERATING WITH WATCH, IC / CISPR 11

FUNDAMENTAL AND SPURIOUS EMISSIONS FROM 9 KHz To 30 MHz



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	* .10625	35.54	Pk	-40	.1	-4.36	52.36	-56.72	0-360
1	.08497	39.08	Pk	-39.5	.1	-.32	61.27	-61.59	0-360
2	.32591	44.08	Pk	-40.5	.1	3.68	30.41	-26.73	0-360
5	.33088	41.99	Pk	-40.5	.1	1.59	30.24	-28.65	0-360
6	28.82527	24.79	Pk	-42.9	1	-17.11	3	-20.11	0-360
3	29.40391	23.19	Pk	-43.1	1	-18.91	3	-21.91	0-360

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

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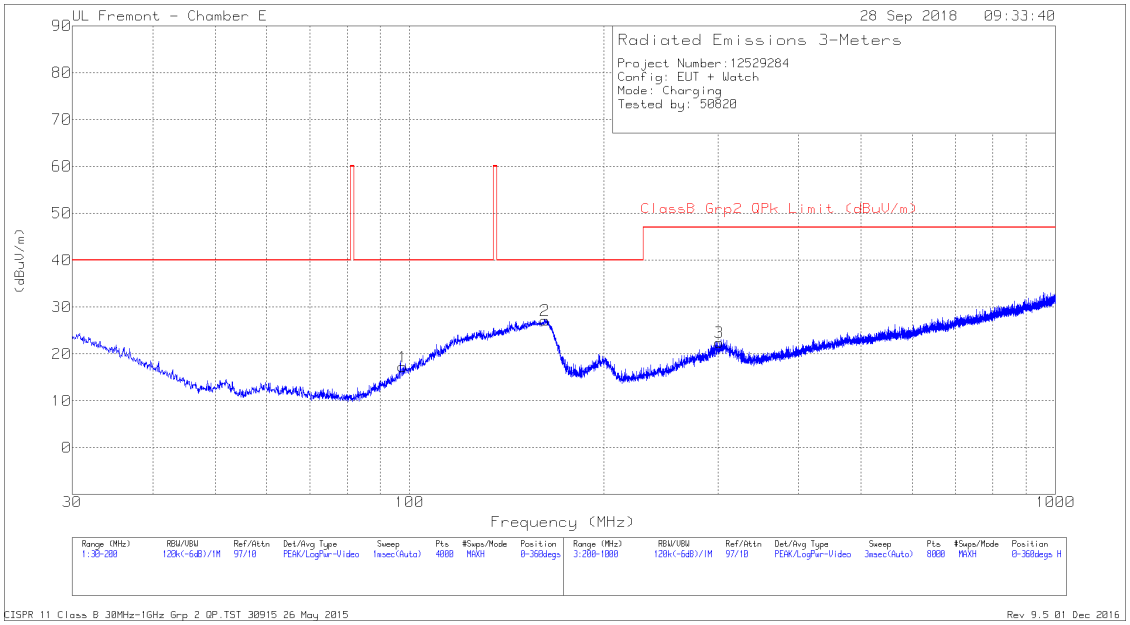
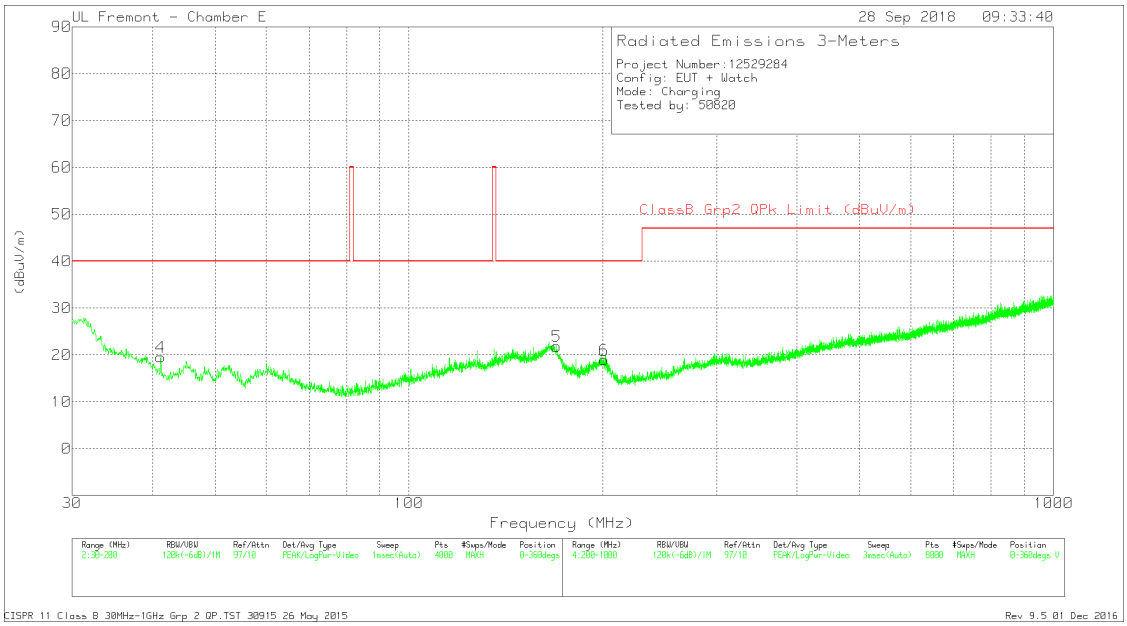
IC / CISPR 11 TX SPURIOUS EMISSION 30 To 1000 MHz

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	41.1804	31.56	Pk	19.4	-31.4	19.56	40	-20.44	0-360	100	V
1	97.55	31.89	Pk	16.2	-30.8	17.29	40	-22.71	0-360	299	H
2	161.9967	39.36	Pk	18.1	-30.3	27.16	40	-12.84	0-360	200	H
5	169.4361	34.05	Pk	18	-30.2	21.85	40	-18.15	0-360	100	V
6	200.7001	30.75	Pk	18.1	-29.9	18.95	40	-21.05	0-360	100	V
3	301.7132	32.46	Pk	19.3	-29.3	22.46	47	-24.54	0-360	100	H

Pk - Peak detector

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9. AC MAINS 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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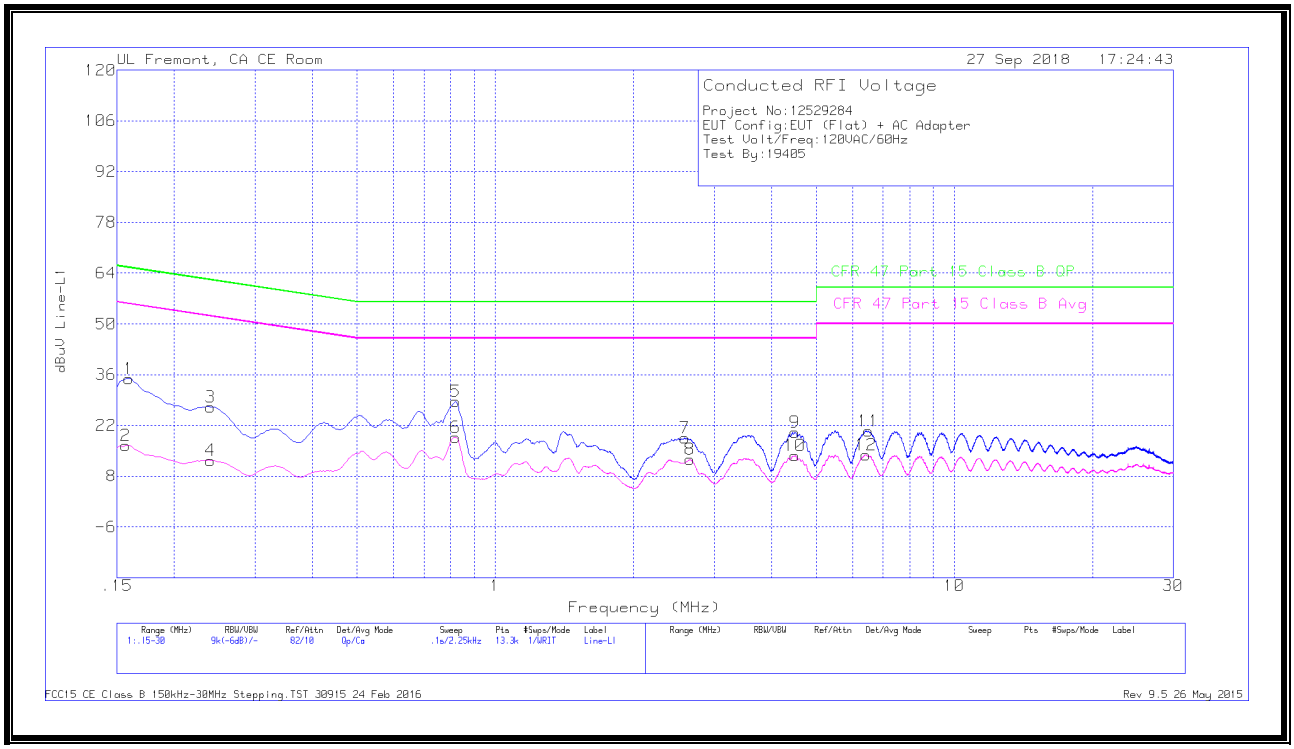
9.1. STANDBY MODE POWERED BY AC/DC ADAPTER

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	24.74	Qp	.1	0	10.1	34.94	65.52	-30.58	-	-
2	.15675	6.22	Ca	.1	0	10.1	16.42	-	-	55.63	-39.21
3	.24	17.03	Qp	0	0	10.1	27.13	62.1	-34.97	-	-
4	.24	2.26	Ca	0	0	10.1	12.36	-	-	52.1	-39.74
5	.8205	18.49	Qp	0	0	10.1	28.59	56	-27.41	-	-
6	.8205	8.68	Ca	0	0	10.1	18.78	-	-	46	-27.22
7	2.58675	8.29	Qp	0	.1	10.1	18.49	56	-37.51	-	-
8	2.65875	2.35	Ca	0	.1	10.1	12.55	-	-	46	-33.45
9	4.49475	9.93	Qp	0	.1	10.1	20.13	56	-35.87	-	-
10	4.5015	3.53	Ca	0	.1	10.1	13.73	-	-	46	-32.27
11	6.5085	10.1	Qp	0	.2	10.2	20.5	60	-39.5	-	-
12	6.41513	3.51	Ca	0	.2	10.2	13.91	-	-	50	-36.09

Qp - Quasi-Peak detector
Ca - CISPR average detection

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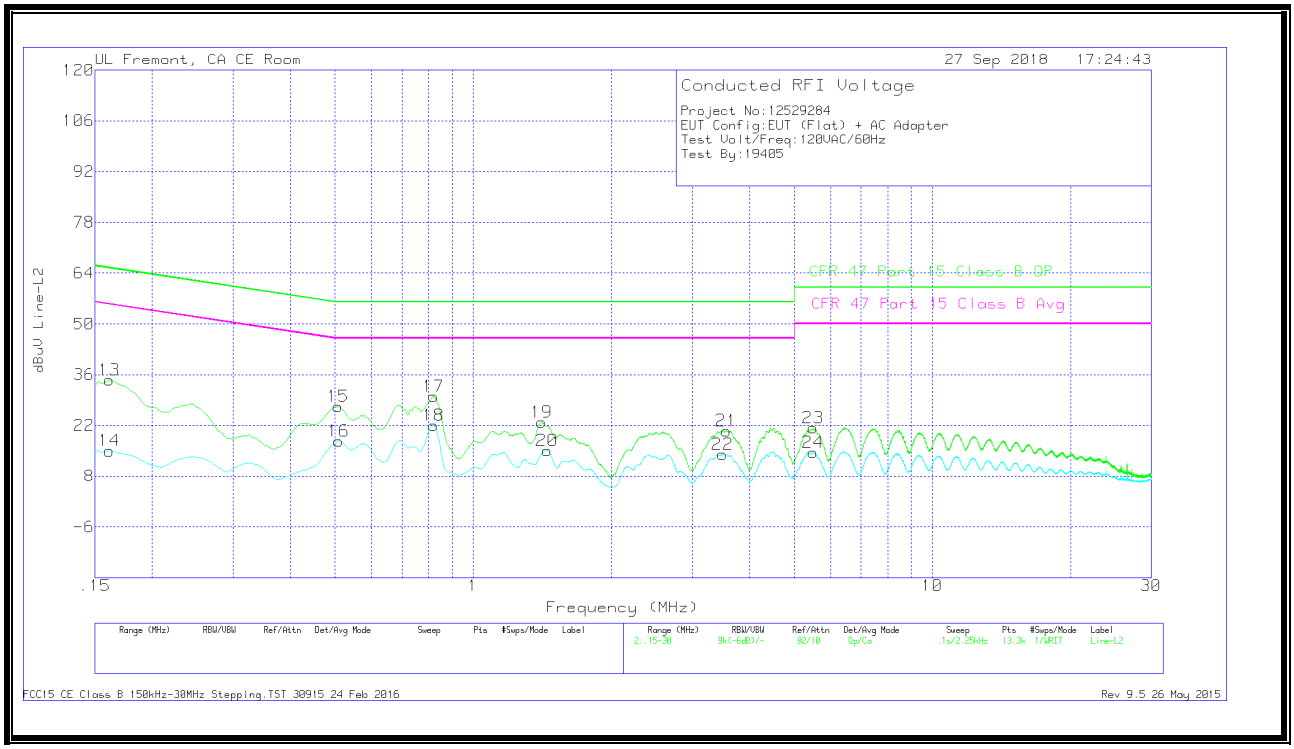
LINE 2 RESULTS



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	.16125	24.25	Qp	.1	0	10.1	34.45	65.4	-30.95	-	-
14	.16125	4.78	Ca	.1	0	10.1	14.98	-	-	55.4	-40.42
15	.50775	17.18	Qp	0	0	10.1	27.28	56	-28.72	-	-
16	.51	7.52	Ca	0	0	10.1	17.62	-	-	46	-28.38
17	.8205	19.87	Qp	0	0	10.1	29.97	56	-26.03	-	-
18	.8205	11.88	Ca	0	0	10.1	21.98	-	-	46	-24.02
19	1.40888	12.63	Qp	0	.1	10.1	22.83	56	-33.17	-	-
20	1.44825	4.89	Ca	0	.1	10.1	15.09	-	-	46	-30.91
21	3.5565	10.33	Qp	0	.1	10.1	20.53	56	-35.47	-	-
22	3.49238	3.84	Ca	0	.1	10.1	14.04	-	-	46	-31.96
23	5.5005	11.16	Qp	0	.1	10.1	21.36	60	-38.64	-	-
24	5.50163	4.38	Ca	0	.1	10.1	14.58	-	-	50	-35.42

Qp - Quasi-Peak detector
Ca - CISPR average detection

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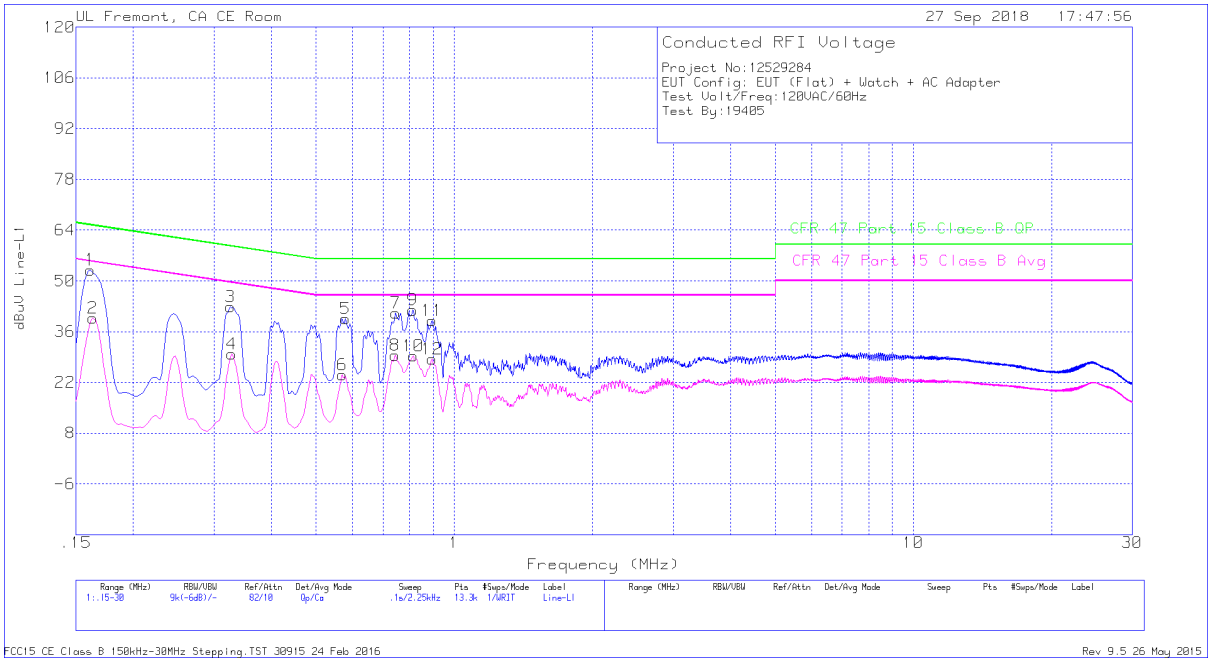
9.2. OPERATING MODE WITH WATCH POWERED BY AC/DC ADAPTER

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	42.84	Qp	.1	0	10.1	53.04	65.4	-12.36	-	-
2	.1635	29.5	Ca	.1	0	10.1	39.7	-	-	55.28	-15.58
3	.3255	32.82	Qp	0	0	10.1	42.92	59.57	-16.65	-	-
4	.32775	19.67	Ca	0	0	10.1	29.77	-	-	49.51	-19.74
5	.57975	29.54	Qp	0	0	10.1	39.64	56	-16.36	-	-
6	.57075	13.98	Ca	0	0	10.1	24.08	-	-	46	-21.92
7	.74625	31.05	Qp	0	0	10.1	41.15	56	-14.85	-	-
8	.744	19.34	Ca	0	0	10.1	29.44	-	-	46	-16.56
9	.8115	31.82	Qp	0	0	10.1	41.92	56	-14.08	-	-
10	.81375	19.18	Ca	0	0	10.1	29.28	-	-	46	-16.72
11	.89475	28.9	Qp	0	0	10.1	39	56	-17	-	-
12	.89475	18.38	Ca	0	0	10.1	28.48	-	-	46	-17.52

Qp - Quasi-Peak detector
Ca - CISPR average detection

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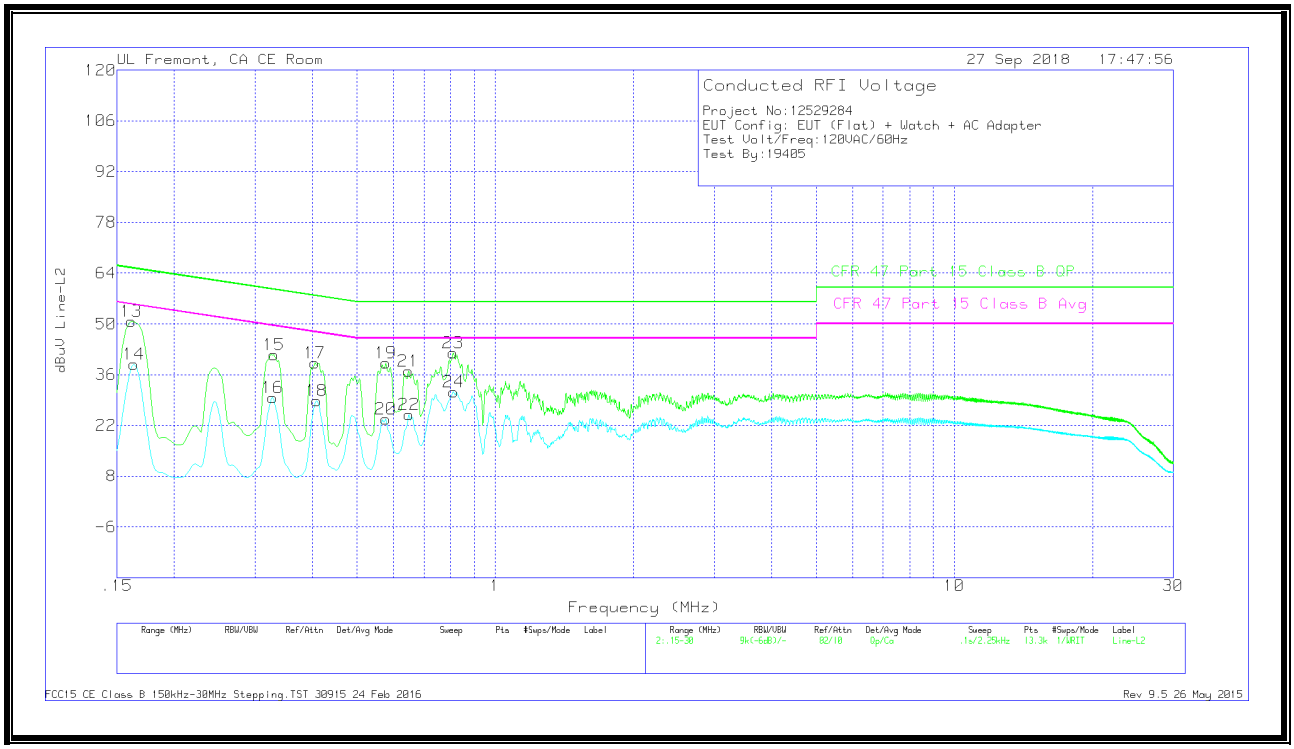
LINE 2 RESULTS



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	.16125	40.45	Qp	.1	0	10.1	50.65	65.4	-14.75	-	-
14	.1635	28.66	Ca	.1	0	10.1	38.86	-	-	55.28	-16.42
15	.33	31.46	Qp	0	0	10.1	41.56	59.45	-17.89	-	-
16	.32775	19.62	Ca	0	0	10.1	29.72	-	-	49.51	-19.79
17	.40425	29.18	Qp	0	0	10.1	39.28	57.77	-18.49	-	-
18	.40875	18.63	Ca	0	0	10.1	28.73	-	-	47.67	-18.94
19	.5775	29.06	Qp	0	0	10.1	39.16	56	-16.84	-	-
20	.5775	13.67	Ca	0	0	10.1	23.77	-	-	46	-22.23
21	.64725	26.92	Qp	0	0	10.1	37.02	56	-18.98	-	-
22	.6495	14.82	Ca	0	0	10.1	24.92	-	-	46	-21.08
23	.80925	31.96	Qp	0	0	10.1	42.06	56	-13.94	-	-
24	.8115	21.19	Ca	0	0	10.1	31.29	-	-	46	-14.71

Qp - Quasi-Peak detector
Ca - CISPR average detection

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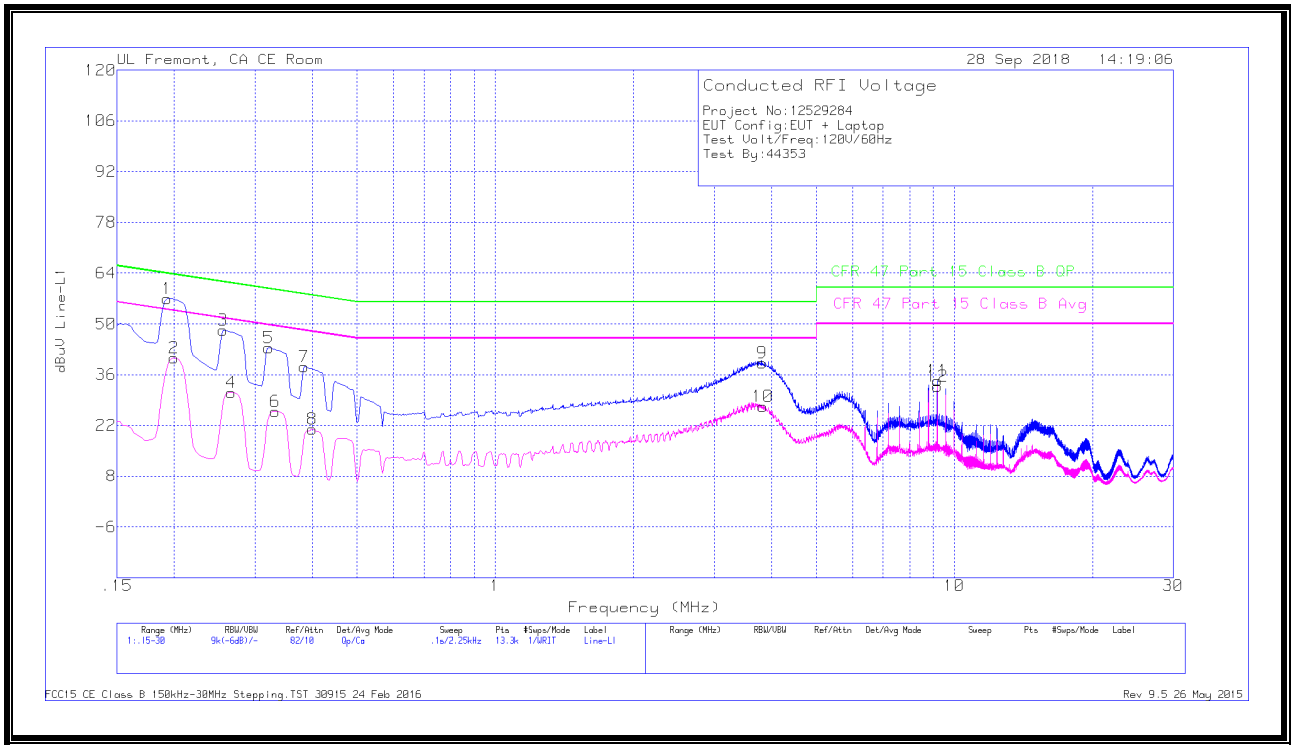
9.3. STANDBY MODE POWERED BY HOST PC VIA USB CABLE

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	.19275	46.9	Qp	0	0	10.1	57	63.92	-6.92	-	-
2	.1995	30.45	Ca	0	0	10.1	40.55	-	-	53.63	-13.08
3	.25575	38.22	Qp	0	0	10.1	48.32	61.57	-13.25	-	-
4	.26588	20.99	Ca	0	0	10.1	31.09	-	-	51.25	-20.16
5	.321	33.33	Qp	0	0	10.1	43.43	59.68	-16.25	-	-
6	.33225	15.78	Ca	0	0	10.1	25.88	-	-	49.39	-23.51
7	.384	28.04	Qp	0	0	10.1	38.14	58.19	-20.05	-	-
8	.39975	10.92	Ca	0	0	10.1	21.02	-	-	47.86	-26.84
9	3.813	29.02	Qp	0	.1	10.1	39.22	56	-16.78	-	-
10	3.8265	17.06	Ca	0	.1	10.1	27.26	-	-	46	-18.74
11	9.18825	24.03	Qp	0	.2	10.2	34.43	60	-25.57	-	-
12	9.18825	22.42	Ca	0	.2	10.2	32.82	-	-	50	-17.18

Qp - Quasi-Peak detector
Ca - CISPR average detection

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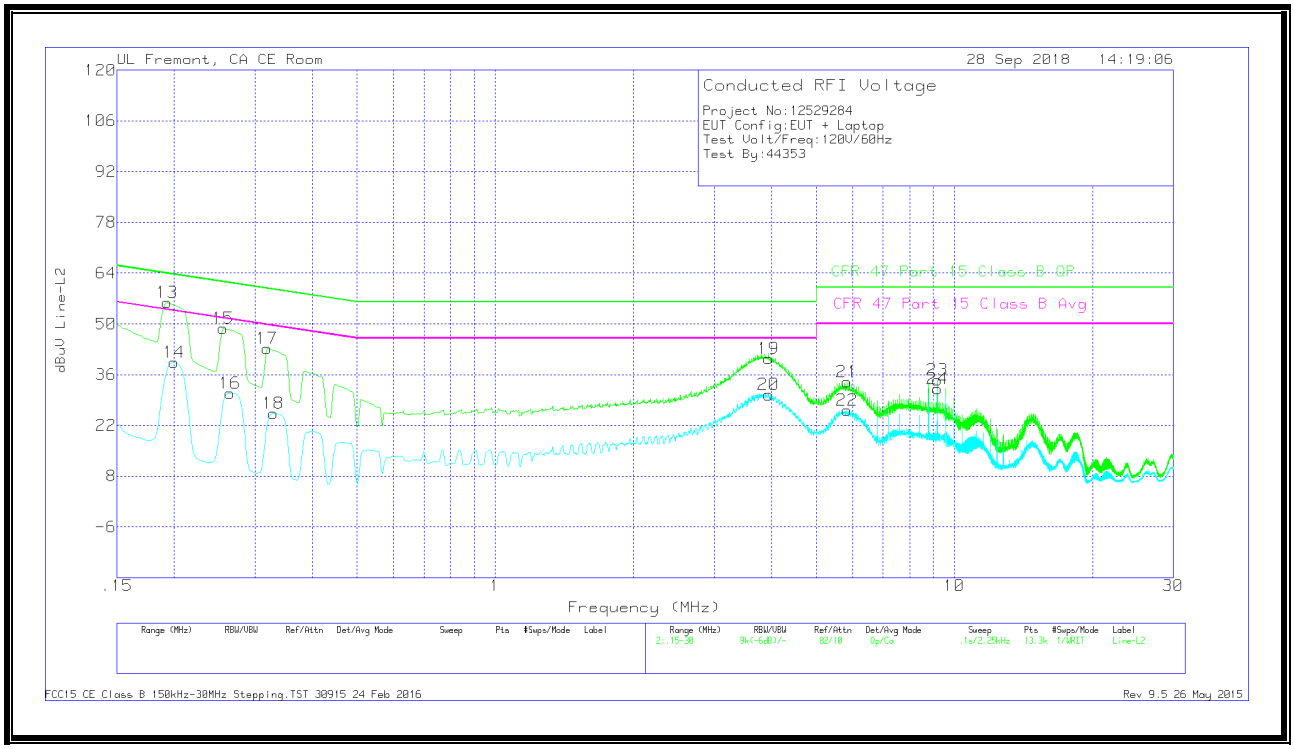
LINE 2 RESULTS



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	.19275	45.84	Qp	0	0	10.1	55.94	63.92	-7.98	-	-
14	.1995	29.26	Ca	0	0	10.1	39.36	-	-	53.63	-14.27
15	.25575	38.64	Qp	0	0	10.1	48.74	61.57	-12.83	-	-
16	.26475	20.83	Ca	0	0	10.1	30.93	-	-	51.28	-20.35
17	.31875	33.12	Qp	0	0	10.1	43.22	59.74	-16.52	-	-
18	.32887	15.16	Ca	0	0	10.1	25.26	-	-	49.48	-24.22
19	3.94125	30.3	Qp	0	.1	10.1	40.5	56	-15.5	-	-
20	3.94125	20.25	Ca	0	.1	10.1	30.45	-	-	46	-15.55
21	5.83575	23.57	Qp	0	.2	10.2	33.97	60	-26.03	-	-
22	5.838	15.79	Ca	0	.2	10.2	26.19	-	-	50	-23.81
23	9.18825	24.07	Qp	0	.2	10.2	34.47	60	-25.53	-	-
24	9.18825	21.73	Ca	0	.2	10.2	32.13	-	-	50	-17.87

Qp - Quasi-Peak detector
Ca - CISPR average detection

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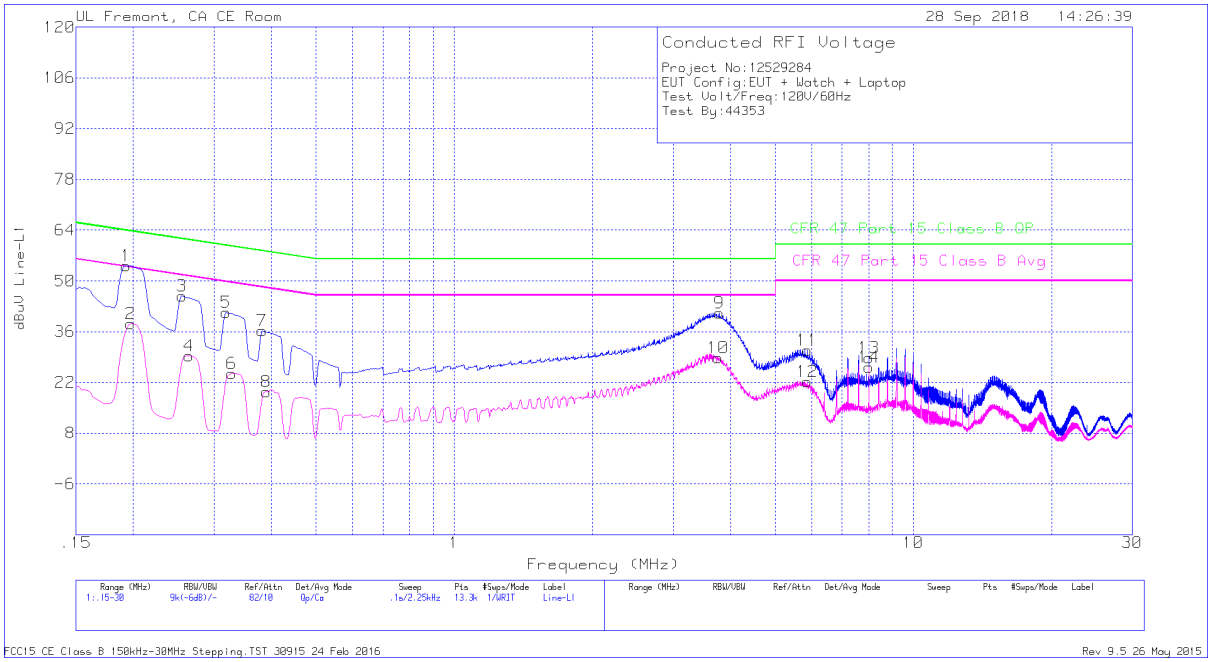
9.4. OPERATING MODE POWERED BY HOST PC VIA USB CABLE

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	.19275	44.02	Qp	0	0	10.1	54.12	63.92	-9.8	-	-
2	.19725	28.02	Ca	0	0	10.1	38.12	-	-	53.73	-15.61
3	.25575	35.75	Qp	0	0	10.1	45.85	61.57	-15.72	-	-
4	.26475	19.22	Ca	0	0	10.1	29.32	-	-	51.28	-21.96
5	.31875	31.14	Qp	0	0	10.1	41.24	59.74	-18.5	-	-
6	.32775	14.3	Ca	0	0	10.1	24.4	-	-	49.51	-25.11
7	.38175	26.1	Qp	0	0	10.1	36.2	58.24	-22.04	-	-
8	.38962	9.26	Ca	0	0	10.1	19.36	-	-	48.07	-28.71
9	3.77925	30.88	Qp	0	.1	10.1	41.08	56	-14.92	-	-
10	3.75225	18.63	Ca	0	.1	10.1	28.83	-	-	46	-17.17
11	5.8785	20.44	Qp	0	.2	10.2	30.84	60	-29.16	-	-
12	5.87625	11.79	Ca	0	.2	10.2	22.19	-	-	50	-27.81
13	8.00475	18.36	Qp	0	.2	10.2	28.76	60	-31.24	-	-
14	8.0025	15.73	Ca	0	.2	10.2	26.13	-	-	50	-23.87

Qp - Quasi-Peak detector
Ca - CISPR average detection

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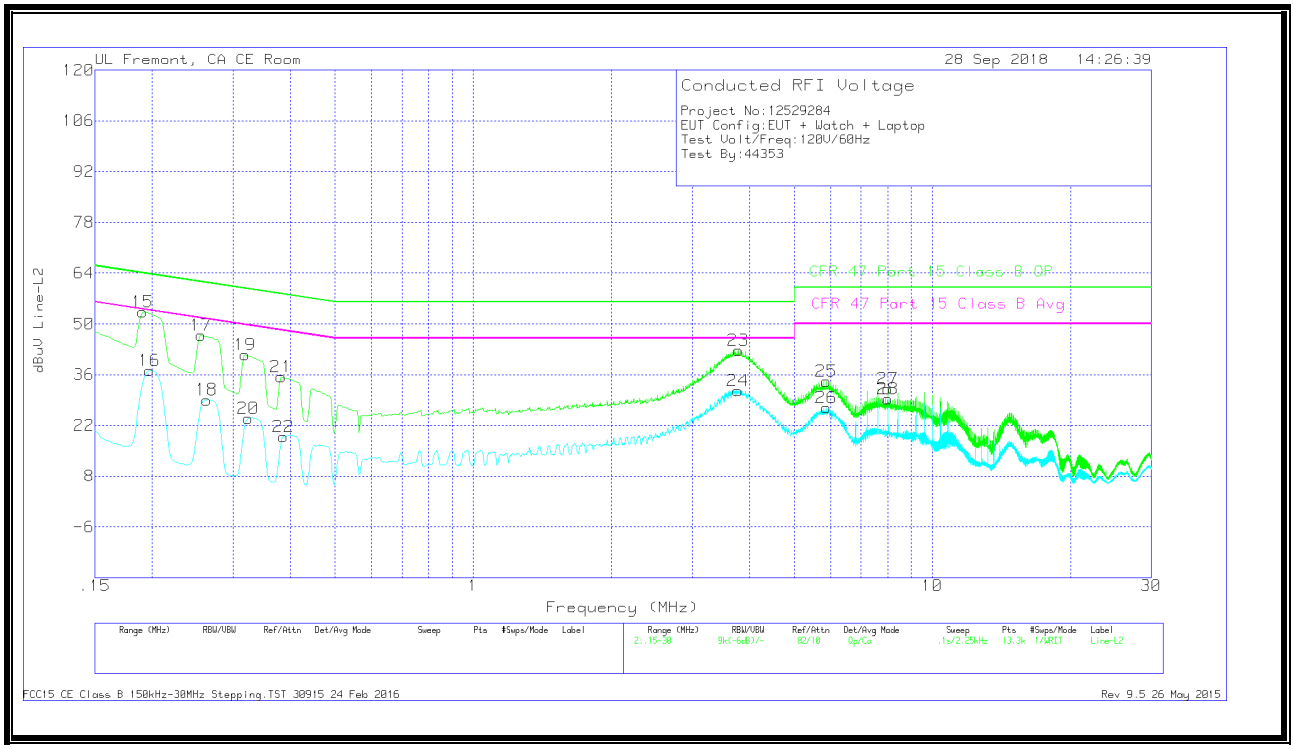
LINE 2 RESULTS



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)
15	.1905	43.26	Qp	0	0	10.1	53.36	64.01	-10.65	-	-
16	.19725	27.04	Ca	0	0	10.1	37.14	-	-	53.73	-16.59
17	.25575	36.75	Qp	0	0	10.1	46.85	61.57	-14.72	-	-
18	.2625	18.95	Ca	0	0	10.1	29.05	-	-	51.35	-22.3
19	.31875	31.37	Qp	0	0	10.1	41.47	59.74	-18.27	-	-
20	.32325	13.79	Ca	0	0	10.1	23.89	-	-	49.62	-25.73
21	.38175	25.29	Qp	0	0	10.1	35.39	58.24	-22.85	-	-
22	.38625	8.86	Ca	0	0	10.1	18.96	-	-	48.14	-29.18
23	3.777	32.56	Qp	0	.1	10.1	42.76	56	-13.24	-	-
24	3.77475	21.37	Ca	0	.1	10.1	31.57	-	-	46	-14.43
25	5.874	23.82	Qp	0	.2	10.2	34.22	60	-25.78	-	-
26	5.874	16.5	Ca	0	.2	10.2	26.9	-	-	50	-23.1
27	8.00925	21.68	Qp	0	.2	10.2	32.08	60	-27.92	-	-
28	8.00925	18.84	Ca	0	.2	10.2	29.24	-	-	50	-20.76

Qp - Quasi-Peak detector
Ca - CISPR average detection

END OF REPORT

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10. SETUP PHOTOS

Please refer to 12529284-EP1V1 for setup photos

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