



CIIPC TEST REPORT

Report Number : 11526570-E1V2

Applicant : Ecolink Intelligent Technology
2055 Corte Del Nogal
Carlsbad, CA 92011, U.S.A.

Model : WST-102

FCC ID : XQC-WST102

IC ID : 9863B-WST102

EUT Description : Wireless Security Keychain Remote Transmitter

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS - 210 ISSUE 8

Date of Issue:
12/8/2016

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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	11/21/16	Initial Issue	C. Vergonio
V2	12/8/16	Updated issue date to agree with cover page and header.	C. Vergonio

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: ECOLINK INTELLIGENT TECHNOLOGY, INC.
2055 CORTE DEL NOGAL
CARLSBAD, CA, 92011, U.S.A

EUT DESCRIPTION: WIRELESS SECURITY KEYCHAIN REMOTE TRANSMITTER

MODEL: WST-102

SERIAL NUMBER: Non-serialized production unit

DATE TESTED: NOVEMBER 15 – 17, 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Pass
INDUSTRY CANADA RSS-210 Issue 8, Annex 1	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

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

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

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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, FCC CFR 47 Part 15, RSS-GEN Issue 4, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

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

47173 Benicia Street		47266 Benicia Street	
<input checked="" type="checkbox"/>	Chamber A (IC:2324B-1)	<input type="checkbox"/>	Chamber D (IC:2324B-4)
<input type="checkbox"/>	Chamber B (IC:2324B-2)	<input type="checkbox"/>	Chamber E (IC:2324B-5)
<input checked="" type="checkbox"/>	Chamber C (IC:2324B-3)	<input type="checkbox"/>	Chamber F (IC:2324B-6)
		<input type="checkbox"/>	Chamber G (IC:2324B-7)
		<input type="checkbox"/>	Chamber H (IC:2324B-8)

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 <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

4.3. MEASUREMENT UNCERTAINTY

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

Parameter	Uncertainty
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%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Transmitter intended for Security use. Uses 3VDC battery

5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The purpose of this C2PC:

1. New PCB with dome switches and new RF tuning component values.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a loop antenna using PCB trace, with a maximum gain of -15 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was ESW1022-07-E01

5.5. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in each of its three orthogonal axes. All radiated testing was performed in the worse-case axis, which was found to be the "X-axis".

5.6. MODIFICATIONS

No modifications were made during testing.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

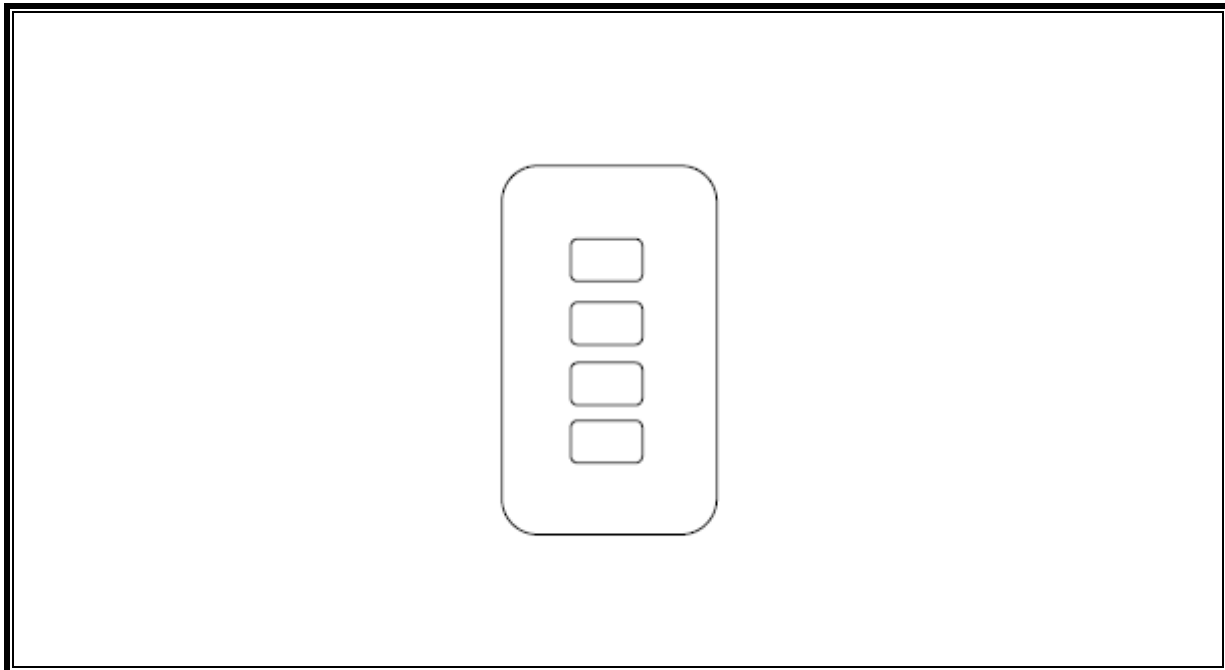
NONE

I/O CABLES

NONE

TEST SETUP

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Antenna, Biconolog, 30MHz-2 GHz	Sunol Sciences	JB1	T122	01/29/17
Antenna, Horn, 18GHz	ETS Lindgren	3117	T119	02/04/17
Preamplifier, 1300 MHz	HP	8447D	T15	08/26/17
Amplifier, 1-18GHz	Miteq	AFS42-00101800-25-S-42	T493	03/09/17
PXA Signal Analyzer, 44 GHz	Keysight	N9030A	N/A	12/21/16
Antenna, Loop, 30 MHz	ETS Lindgren	6502	T35	03/24/17

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

7. ANTENNA PORT TEST RESULTS

7.1. 20 dB AND 99% BW

LIMITS

FCC §15.231 (c)

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

IC A1.1.3

For the purpose of Section A1.1, the 99% Bandwidth shall be no wider than 0.25% of the center frequency for devices operating between 70-900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

TEST PROCEDURE

ANSI C63.10

The transmitter output is connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 1% to 5% of OBW. The VBW is set to 3 times the RBW. The sweep time is coupled. Bandwidth is determined at the points 20 dB down from the modulated carrier.

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

RESULTS

Refer to UL original test report: 13U15255-1

7.2. DUTY CYCLE

LIMITS

FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1MHz and the VBW is set to 1MHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

CALCULATION

Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

Refer to UL original test report: 13U15255-1

7.3. TRANSMISSION TIME

LIMITS

FCC §15.231 (a) (2)
IC A1.1.1 (b)

A transmitter activated automatically shall cease transmission within 5 seconds after activation.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1MHz and the VBW is set to 1MHz. The sweep time is set to 10 seconds and the span is set to 0 Hz.

RESULTS

Refer to UL original test report: 13U15255-1

8. RADIATED EMISSION TEST RESULTS

8.1. TX RADIATED SPURIOUS EMISSION

LIMITS

FCC §15.231 (b)
 IC A1.1.2

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	¹ 1,250 to 3,750	¹ 125 to 375
174-260	3,750	375
260-470	¹ 3,750 to 12,500	¹ 375 to 1,250
Above 470	12,500	1,250

¹Linear interpolation

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

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

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

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

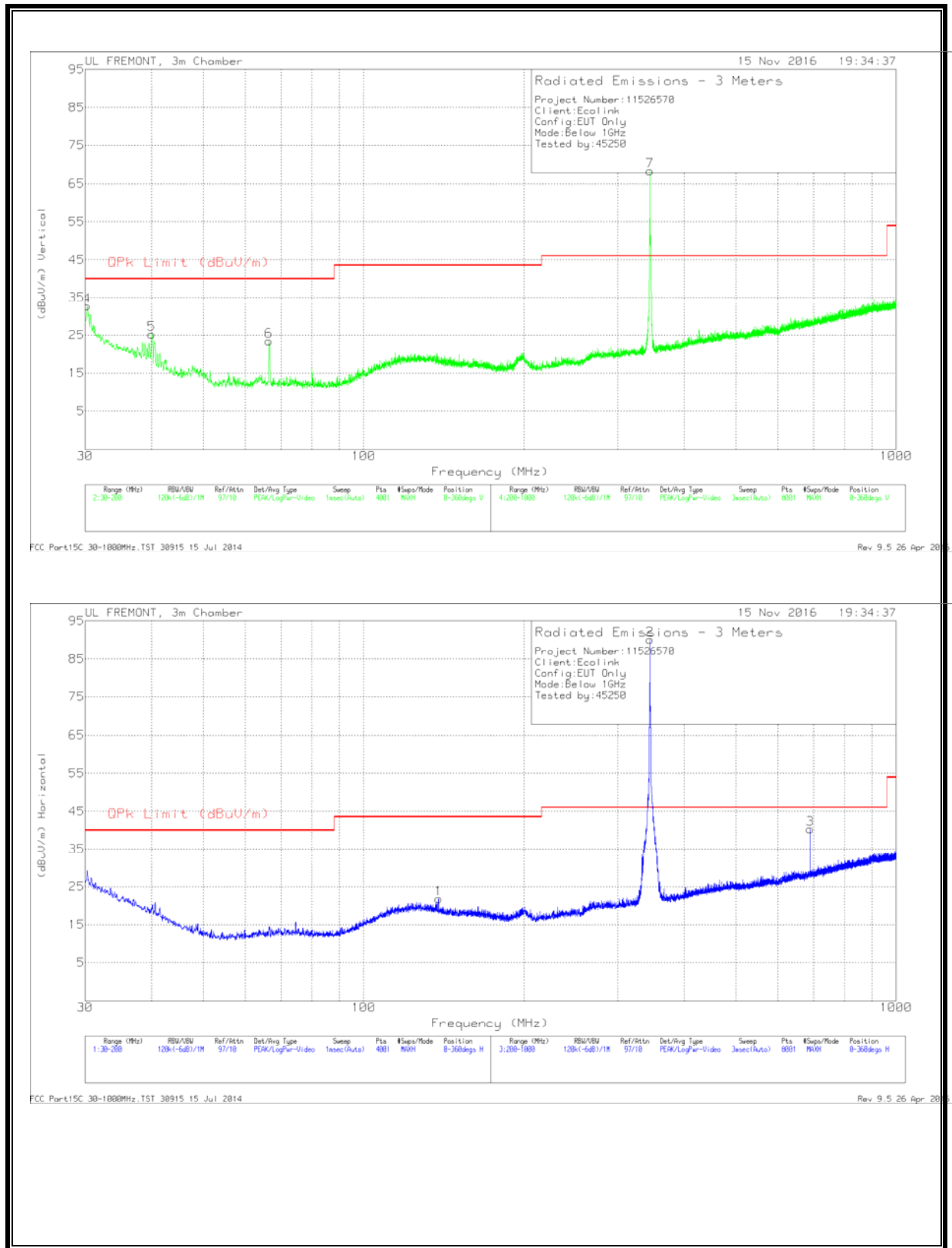
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and apply DCCF for average measurements.

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.

RESULTS

No non-compliance noted:

FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 – 1000 MHz)



BELOW 1GHZ RADIATED EMISSIONS

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	30.255	34.86	Pk	25.1	-27.3	32.66	40	-7.34	0-360	100	V
5	40.03	34.56	Pk	17.8	-27.1	25.26	40	-14.74	0-360	100	V
6	66.4225	38.36	Pk	11.8	-26.7	23.46	40	-16.54	0-360	100	V
1	138.2475	30.38	Pk	17.2	-25.8	21.78	43.52	-21.74	0-360	200	H
2	345	96.26	Pk	18	-24.2	90.06			0-360	100	H
7	345	74.47	Pk	18	-24.2	68.27			0-360	300	V
3	690	40.14	Pk	23.9	-23.7	40.34	46.02	-5.68	0-360	100	H

FUNDAMENTAL AND HARMONICS SPURIOUS EMISSIONS

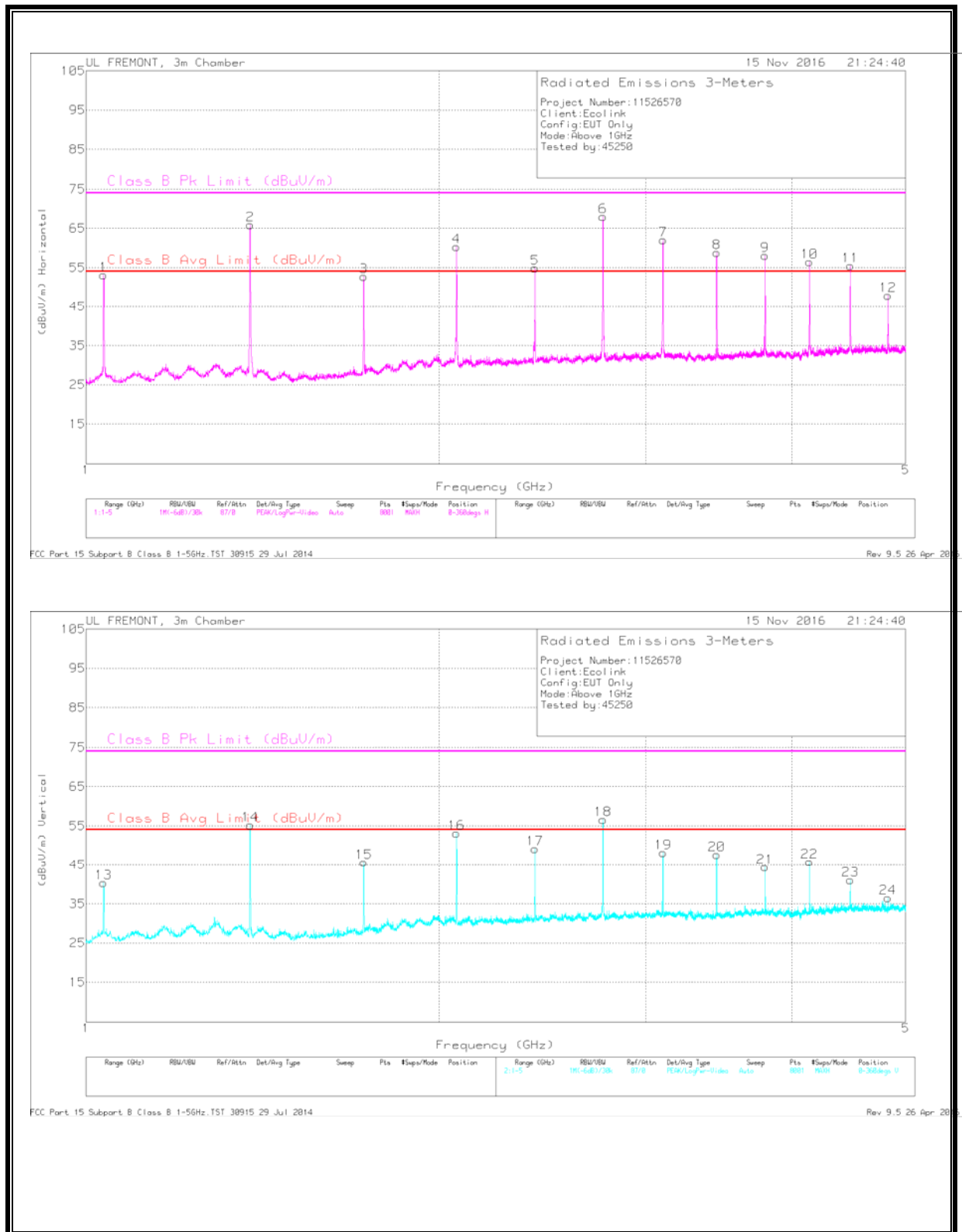
Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
345.0029	74.42	Pk	18	-24.2	68.22	97.26	-29.04	357	276	V
		Av			48.24	77.26	-29.02	357	276	V
345.0038	95.94	Pk	18	-24.2	89.74	97.26	-7.52	109	105	H
		Av			69.76	77.26	-7.5	109	105	H
**689.9995	41.29	Pk	23.9	-23.7	41.49	77.26	-35.77	259	102	H
		Av			21.51	57.26	-35.75	259	102	H

* Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is -19.98dB
 (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

Note: Radiated peak result is based on 100% duty cycle sample; average reading = peak reading + DCCF

** Harmonics of fundamental 345MHz

HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz



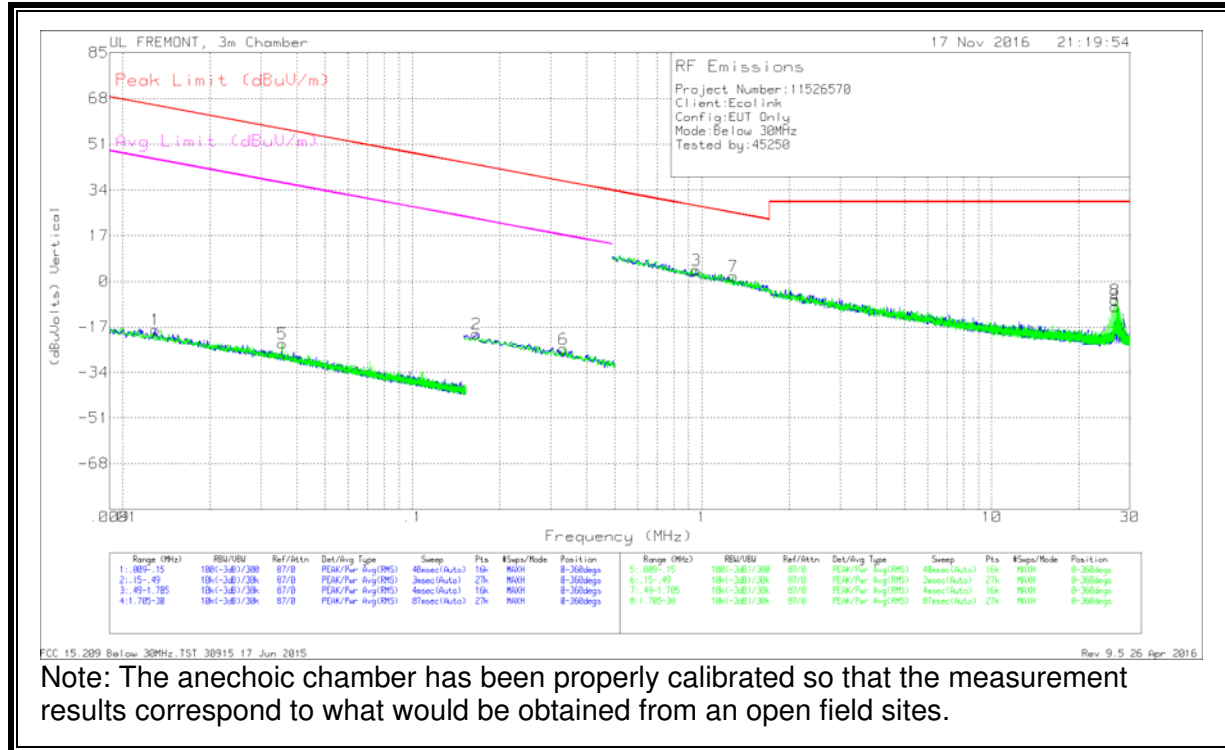
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl (dB)	Corrected Av Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR) Margin (dB)	Corrected Pk Reading (dBuV/m)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
*1.035	58.64	Pk	27.6	-32.2	-	-	-	54.04	74	-19.96	183	198	H
		Av			34.06	54	-19.94	-	-	-	183	198	H
*1.035	52.76	Pk	27.6	-32.2	-	-	-	48.16	74	-25.84	89	363	V
		Av			28.18	54	-25.82	-	-	-	89	363	V
*1.38	69.52	Pk	29.1	-31.7	-	-	-	66.92	74	-7.08	337	222	H
		Av			46.94	54	-7.06	-	-	-	337	222	H
*1.38	65.36	Pk	29.1	-31.7	-	-	-	62.76	74	-11.24	273	400	V
		Av			42.78	54	-11.22	-	-	-	273	400	V
1.725	59.45	Pk	29.3	-31.3	-	-	-	57.45	77.26	-19.81	337	370	H
		Av			37.47	57.26	-19.79	-	-	-	337	370	H
1.725	49.04	Pk	29.3	-31.3	-	-	-	47.04	77.26	-30.22	192	398	V
		Av			27.06	57.26	-30.2	-	-	-	192	398	V
2.07	64.62	Pk	31.6	-31.1	-	-	-	65.12	77.26	-12.14	24	301	H
		Av			45.14	57.26	-12.12	-	-	-	24	301	H
2.07	58.12	Pk	31.6	-31.1	-	-	-	58.62	77.26	-18.64	67	386	V
		Av			38.64	57.26	-18.62	-	-	-	67	386	V
2.415	59.76	Pk	32.2	-30.7	-	-	-	61.26	77.26	-16.00	41	146	H
		Av			41.28	57.26	-15.98	-	-	-	41	146	H
2.415	53.36	Pk	32.2	-30.7	-	-	-	54.86	77.26	-22.40	342	295	V
		Av			34.88	57.26	-22.38	-	-	-	342	295	V
*2.76	68.69	Pk	32.6	-30.3	-	-	-	70.99	74	-3.01	249	142	H
		Av			51.01	54	-2.99	-	-	-	249	142	H
*2.76	60.05	Pk	32.6	-30.3	-	-	-	62.35	74	-11.65	281	283	V
		Av			42.37	54	-11.63	-	-	-	281	283	V
3.105	63.89	Pk	33	-30.3	-	-	-	66.59	77.26	-10.67	235	133	H
		Av			46.61	57.26	-10.65	-	-	-	235	133	H
3.105	59.53	Pk	33	-30.3	-	-	-	62.23	77.26	-15.03	179	399	V
		Av			42.25	57.26	-15.01	-	-	-	179	399	V
3.451	58.51	Pk	32.7	-30	-	-	-	61.21	77.26	-16.05	330	178	H
		Av			41.23	57.26	-16.03	-	-	-	330	178	H
3.451	51.54	Pk	32.7	-30	-	-	-	54.24	77.26	-23.02	98	352	V
		Av			34.26	57.26	-23	-	-	-	98	352	V
*3.795	53	Pk	33.1	-29.4	-	-	-	56.7	74	-17.3	165	150	H
		Av			36.72	54	-17.28	-	-	-	165	150	H
*3.795	54.18	Pk	33.1	-29.4	-	-	-	57.88	74	-16.12	92	399	V
		Av			37.9	54	-16.1	-	-	-	92	399	V
*4.141	37.21	Pk	33.6	-29.3	-	-	-	41.51	74	-32.49	97	357	H
		Av			21.53	54	-32.47	-	-	-	97	357	H
*4.142	40.7	Pk	33.6	-29.2	-	-	-	45.1	74	-28.9	42	383	V
		Av			25.12	54	-28.88	-	-	-	42	383	V
4.485	54.49	Pk	34.1	-29.1	-	-	-	59.49	77.26	-17.77	13	141	H
		Av			39.51	57.26	-17.75	-	-	-	13	141	H
4.485	43.41	Pk	34.1	-29.1	-	-	-	48.41	77.26	-28.85	336	100	V
		Av			28.43	57.26	-28.83	-	-	-	336	100	V
*4.83	51.54	Pk	34.2	-28.9	-	-	-	56.84	74	-17.16	63	112	H
		Av			36.86	54	-17.14	-	-	-	63	112	H
*4.83	46.97	Pk	34.2	-28.9	-	-	-	52.27	74	-21.73	36	400	V
		Av			32.29	54	-21.71	-	-	-	36	400	V

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

Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle factor is -19.98dB
 (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

BELOW 30MHz



Note: The anechoic chamber has been properly calibrated so that the measurement results correspond to what would be obtained from an open field sites.

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.01296	43.95	Pk	16.8	1.4	-80	-17.85	65.35	-83.2	45.35	-63.2	0-360
5	.03551	42.93	Pk	12.5	1.4	-80	-23.17	56.6	-79.77	36.6	-59.77	0-360
2	.16701	48.26	Pk	10.8	1.5	-80	-19.44	43.15	-62.59	23.15	-42.59	0-360
6	.33301	42.54	Pk	10.7	1.5	-80	-25.26	37.16	-62.42	17.16	-42.42	0-360

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.95409	31.96	Pk	10.7	1.5	-40	4.16	28.01	-23.85	-	-	0-360
7	1.28173	29.66	Pk	10.7	1.5	-40	1.86	25.45	-23.59	-	-	0-360
8	26.6757	22.54	Pk	8.8	1.7	-40	-6.96	29.54	-36.5	-	-	0-360
4	26.68932	20.15	Pk	8.8	1.7	-40	-9.35	29.54	-38.89	-	-	0-360

Pk - Peak detector