

FCC CFR47 PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

WIRELESS TEMP/FLOOD DETECTOR

MODEL NUMBER: SW-ATT-TF

FCC ID: QNP-433TF IC: 4676A-433TF

REPORT NUMBER: SR8540312-T001

ISSUE DATE: 2012-04-25

Prepared for

SECURE WIRELESS, INC 5817 DRYDEN PLACE, SUITE D CARLSBAD CA, 92008, USA

Prepared by
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Revision History

Rev.	Issue Date	Revisions	Revised By
	2012- 04-25	Initial Issue	B. DeLisi

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Secure Wireless, Inc

5817 Dryden Place, Suite D Carlsbad, CA 92008, USA

EUT DESCRIPTION: Wireless Temp/Flood Detector

MODEL: SW-ATT-TF

SERIAL NUMBER: Non-serialized production unit

DATE TESTED: 2012-03-07 through 2012-04-23

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 3 Pass

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations of these calculations. The results show that the equipment 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 by the referenced documents. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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 By: Tested By:

Michael Antola Bob DeLisi

Sr. Project Engineer Sr. Staff Engineer

UL LLC UL LLC

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

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3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 1285 Walt Whitman Rd. Melville, NY 11747, USA.

UL Melville is accredited by NVLAP, Laboratory Code 100255-0. The full scope of accreditation can be viewed at http://ts.nist.gov/standards/scopes/1002550.htm.

A retest of the fundamental and second harmonic emissions, below 1GHz, was performed at UL CCS located at 47173 Benicia Street, Fremont, California, USA.

UL CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	± 3.3 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.00 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 wireless Temp/Flood Detector intended for security applications. The EUT is powered by 3VDC nominal, from a CR2 lithium battery.

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5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral loop antenna, with an approximate gain of 15 dBi.

5.3. SOFTWARE AND FIRMWARE

Not Applicable

5.4. WORST-CASE CONFIGURATION AND MODE

The worst case configuration was in the Y-axis. The EUT only has one mode of operation.

5.5. MODIFICATIONS

R8 was changed from a 1.0nH choke to a 2 Ohm resistor in order to reduce the fundamental emission.

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5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Not applicable

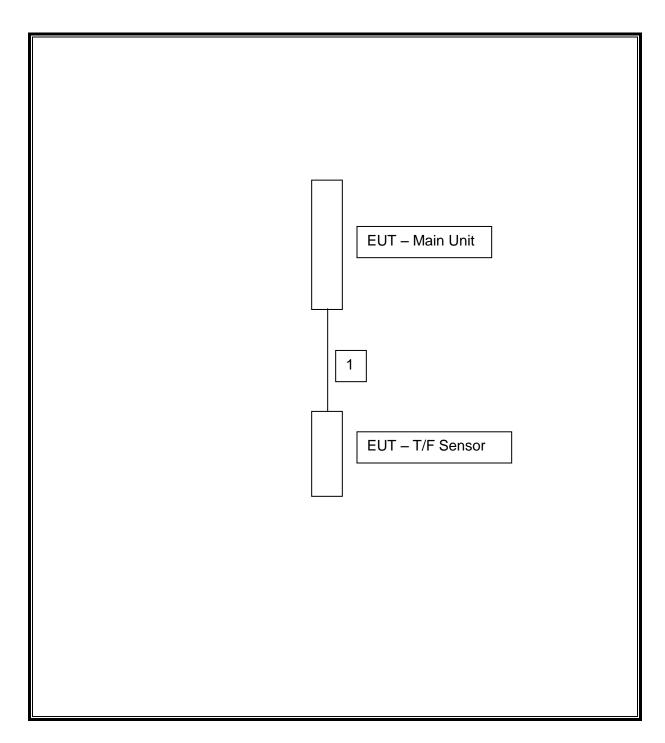
I/O CABLES

	I/O CABLE LIST					
Cable No.	Port	# of Identica Ports	Connector Type	Cable Type	Cable Length	Remarks
1	I/O	1	Screw Terminal	Unshielded		Connection between main unit and sensor

TEST SETUP

The EUT was tested with the sensor attached. The manufacturer configured the device to continuously transmit for emissions data and to operate as intended (periodic) for all other tests.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

DATE: 2012-04-24

Test Equipment Used – Radiated Emissions					
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
30-1000MHz					
	Rohde &				
EMI Receiver	Schwarz	ESIB26	ME5B-081	2012-01-03	2013-01-30
Bicon Antenna	Schaffner	VBA6106A	43441	2011-10-11	2012-10-11
Log-P Antenna	Schaffner	UPA6109	44067	2011-04-29	2012-04-29
Preamp (10kHz - 1.3GHz)	Schaffner	CPA9231A	31613	N/A	N/A
Switch Driver	HP	11713A	ME7A-627	N/A	N/A
System Controller	Sunol Sciences	SC99V	44396	N/A	N/A
Camera Controller	Panasonic	WV-CU254	44395	N/A	N/A
RF Switch Box	UL	1	44398	N/A	N/A
Measurement Software	UL	Version 9.3	44740	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
Multimeter	Fluke	83111	ME5B-305	2012-02-01	2013-02-28
Spectrum Analyzer, 44 GHz**	Agilent / HP	E4446A	C00986	2012-03-22	2013-03-22
Antenna, Bilog, 30MHz-1 GHz**	Sunol Sciences	JB1	None	2012-02-07	2013-02-07
Preamplifier, 1300 MHz**	Agilent / HP	8447D	C00558	2011-11-11	2012-11-11
Above 1GHz (Band Optimized Syst	em)	·			
Spectrum Analyzer	Agilent	E4446A	72822	2012-01-31	2013-02-28
Horn Antenna (1-2 GHz)	ETS	3161-01	51442	2008-03-28	See * below
Horn Antenna (2-4 GHz)	ETS	3161-02	48107	2007-09-27	See * below
Horn Antenna (4-8 GHz)	ETS	3161-03	48106	2007-09-27	See * below
Signal Path Controller	HP	11713A	50250	N/A	N/A
Gain Controller	HP	11713A	50251	N/A	N/A
RF Switch / Preamp Fixture	UL	BOMS1	50249	N/A	N/A
System Controller	UL	BOMS2	50252	N/A	N/A
Measurement Software	UL	Version 9.3	44740	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
Multimeter	Fluke	83111	ME5B-305	2012-02-01	2013-02-28

^{* -} Note: As allowed by the calibration standard ANSI C63.4 Section 4.4.2, standard gain horns need only a one-time calibration. Only if physical damage occurs will the horn antenna require re-calibration.

^{*} Gain standard horn antennas (sometimes called standard gain horn antennas) need not be calibrated beyond that which is provided by the manufacturer unless they are damaged or deterioration is suspected, or they are used at a distance closer than $2D^2/\lambda$. Gain standard horn antennas have gains that are fixed by their dimensions and dimensional tolerances.

^{** -} Note: Equipment identified by ** was used to test at UL Fremont facility.

Test Equipment Used – Occupied Bandwidth/Cease Operation/Duty Cycle					
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
Spectrum Analzyer	Agilent	E44446A	72823	2012-01-31	2013-02-28
Dipole Antenna	EMCO	3121C	3359	2011-12-16	2012-12-16
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43733	2010-03-08	2012-03-08

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.

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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 C63.4

The transmitter was monitored by a dipole which was connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 10 KHz. The VBW is set to 100 KHz. 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

No non-compliance noted:

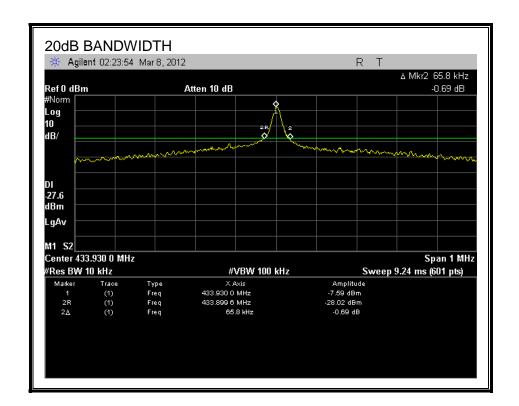
20dB Bandwidth

Frequency	20dB Bandwidth	Limit	Margin
(MHz)	(kHz)	(kHz)	(kHz)
433.93	65.8	1084.825	-1019.025

99% Bandwidth

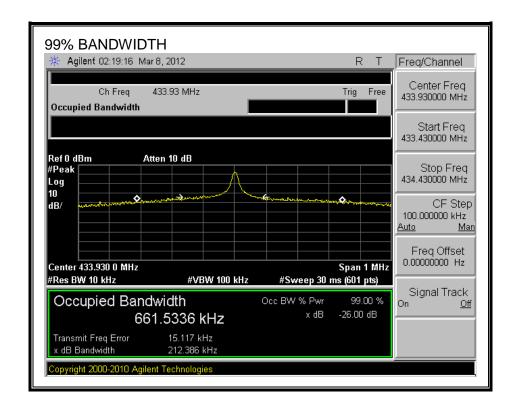
Frequency	99% Bandwidth	Limit	Margin
(MHz)	(kHz)	(kHz)	(kHz)
433.93	661.53	1084.825	-423.295

20dB BANDWIDTH



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99% BANDWIDTH



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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.

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TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1 MHz and the VBW is set to 1 MHz. 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

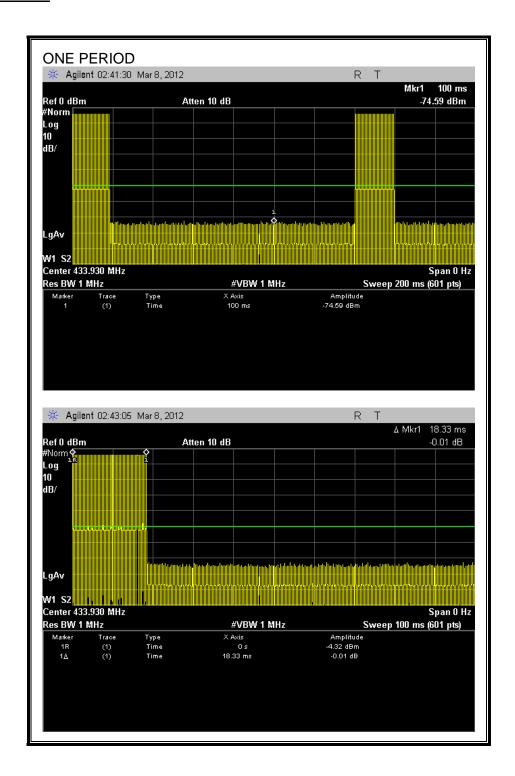
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

No non-compliance noted:

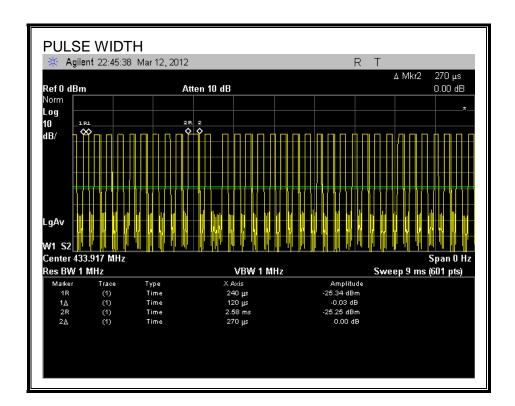
One	Long Pulse	# of	Short	# of	Short	# of	Duty	20*Log
Period	Width	Long	Width	Short	Width	Short	Cycle	Duty Cycle
(ms)	(ms)	Pulses	(ms)	Pulses	(ms)	Pulses		(dB)

ONE PERIOD



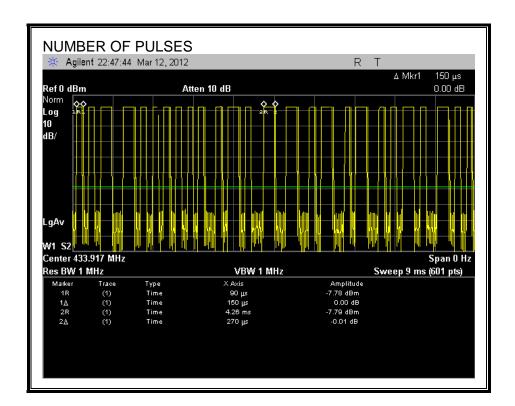
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PULSE WIDTH AND 1st 9mS OF PULSE TRAIN



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PULSE WIDTH AND 2nd 9mS OF PULSE TRAIN



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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.

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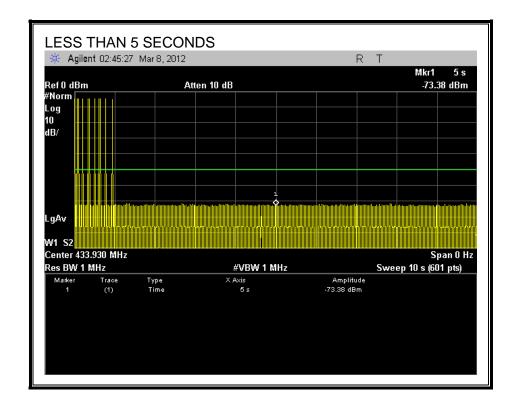
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TEST PROCEDURE

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

RESULTS

No non-compliance noted:



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:

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Fundamental	Field Strength of	Field Strength of
Frequency	Fundamental Frequency	Spurious Emissions
(MHz)	(microvolts/meter)	(microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,7501	125 to 3751
174 - 260	3,750	375
260 - 470	3,750 to 12,5001	375 to 1,2501
Above 470	12,500	1,250

¹ Linear 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		

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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:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. 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 1 MHz for peak measurements and 10 Hz for average measurements.

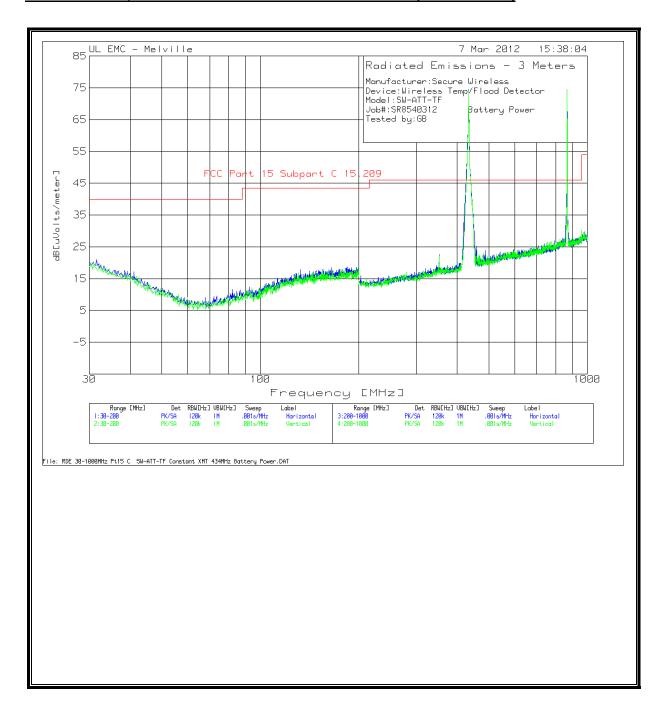
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

RESULTS

No non-compliance noted:

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

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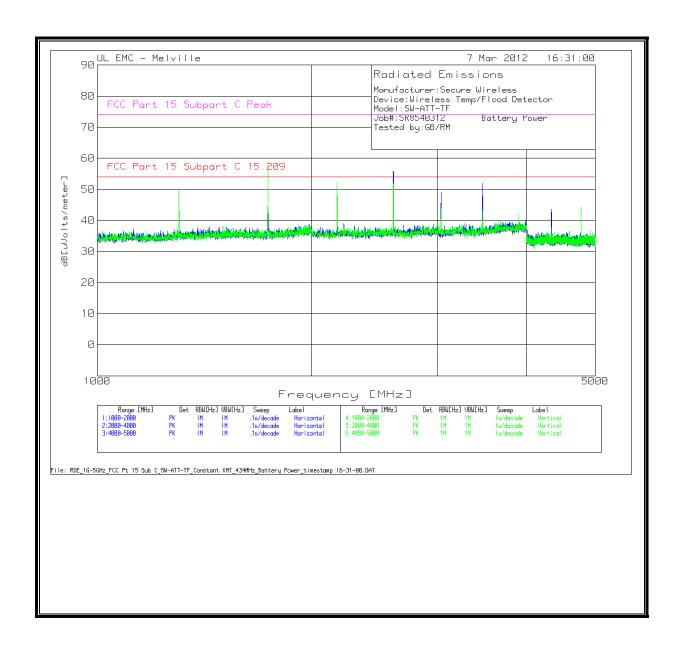


30 - 100	0MHz Su	bs titutio	n Meası	ırement									
Complian	ce Certifi	Project #: Report #:	12U14297										
_													
			e& Time: est Engr:	Chin Pang									
		Test C	Com T Descri onfigura Type oj of Oper	tion : Test:	Secure \ Wireless EUT with FCC Transmit	Temp/Flo n sensor 15.231b	od Detecto	r					- - - -
M% = ((t1+	9.69%				Av Reading 20 * log (M		ading + 20* -20.27	log(M%)					
Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Pk Level	Av Level	Pk Limit	Av Limit	Pk Margin	Avg Margin	Pol	Height
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	FCC_B	FCC_B	(dB)	(dB)	(H/V)	(Meter)
Fundamental													
433.92	83.63	63.63	13.90	1.70	0.00	99.23	79.23	100.83	80.83	-1.60	-1.60	V	1.50
433.92	78.10	58.10	13.90	1.70	0.00	93.70	73.70	100.83	80.83	-7.13	-7.13	Н	1.20
2nd Harmonic								_	L				
867.86	71.50	51.50	19.00	2.14	28.29	64.35	44.35	80.83	60.83	-16.48	-16.48	V	1.50
867.86	60.50	40.50	19.00	2.14	28.29	53.35	33.35	80.83	60.83	-27.48	-27.48	Н	1.00

Detector = peak

Note: Re-test of fundamental and 2nd harmonic were conducted at UL CCS.

HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz



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Manufacture														
Device:Wire	eless Tem	o/Flood De	etector											
Model:SW-A	ATT-TF													
Job#:SR8540	0312 Ba	ttery Powe	er											
Tested by:G	iB/RM													
				BOMS			Corrected	FCC Part 15		FCC Part 15				
Test	Meter		AF-51442	Factor	dB[uVolts/		dB[uVolts/	Subpart C		Subpart C		Azimuth	Height	
Frequency	Reading	Detector	[dB]	[dB]	meter]	DCF	meter]	15.209	Margin	Peak	Margin	[Degs]	[cm]	Polarity
Horizontal 1	1000 - 2000	MHz												
1301.82	79.14	PK	20.5	-45.22	54.42	-20.27	34.15	54	-19.85	74	-19.58	153	286	Horz
1735.736	85.21	PK	20.8	-44.71	61.3	-20.27	41.03	54	-12.97	74	-12.7	171	281	Horz
Horizontal 2	2000 - 4000)MHz												
2169.744	77.93	PK	21.4	-44.23	55.1	-20.27	34.83	54	-19.17	74	-18.9	309	256	Horz
2603.654	81.04	PK	21.3	-43.65	58.69	-20.27	38.42	54	-15.58	74	-15.31	207	308	Horz
3037.562	73.65	PK	21.6	-43.07	52.18	-20.27	31.91	54	-22.09	74	-21.82	110	364	Horz
3471.58	81.69	PK	22.2	-43.02	60.87	-20.27	40.6	54	-13.4	74	-13.13	11	327	Horz
3905.474	69.72	PK	22.6	-43.06	49.26	-20.27	28.99	54	-25.01	74	-24.74	181	299	Horz
Horizontal 4	1000 - 5000)MHz												
4339.334	70.82	PK	27.7	-51.95	46.57	-20.27	26.3	54	-27.7	74	-27.43	134	240	Horz
4773.286	73.94	PK	27.1	-52.49	48.55	-20.27	28.28	54	-25.72	74	-25.45	34	209	Horz
Vertical 100	0 - 2000MI	Hz												
1301.796	77.2	PK	20.5	-45.22	52.48	-20.27	32.21	54	-21.79	74	-21.52	240	199	Vert
1735.678	85.31	PK	20.8	-44.71	61.4	-20.27	41.13	54	-12.87	74	-12.6	106	118	Vert
Vertical 200	0 - 4000MI	Hz												
2169.754	78.78		21.1	-44.23	55.65	-20.27	35.38	54	-18.62	74	-18.35	126	210	Vert
2603.662	78.69		21.5											Vert
3037.546	70.51	PK	21.7	-43.07	49.14	-20.27	28.87	54	-25.13	74	-24.86	159	361	Vert
3471.508	79.34	PK	22.3	-43.02				54	-15.65	74				Vert
3905.44	67.9		22.6						-26.83	74				Vert
Vertical 400	0 - 5000MI	Hz												
4339.314	71.51	PK	27.8	-51.95	47.36	-20.27	27.09	54	-26.91	74	-26.64	278	271	Vert
4773.28	73.98	PK	27.2	-52.49	48.69	-20.27	28.42	54	-25.58	74	-25.31	313	392	Vert
PK - Peak de	etector													
QP - Quasi-F		rtor												
LnAv - Linea														
LgAv - Linea														
Av - Averag														
CAV - CISPR														
RMS - RMS d		acteetoi												
	R RMS det	tection												

DATE: 2012-04-24

IC: 4676A-433TF

Corrected level is compared to the 15.209 limit and the uncorrected level is compared to the peak limit.