



Curtis-Straus LLC, a wholly owned subsidiary of BV CPS

Report No	EP2928-1
Client	ecoVent Robert Kim
Address	24 Cambridge St, Suite 6 Charlestown, MA 02129
Phone	857-204-4466
Items tested FCC ID	WALL SENSOR 2AFTLSS1
FRN	0024870743
Equipment Type Equipment Code	Part 15.247 Digitally Modulated DTS
FCC/IC Rule Parts	47 CFR 15.247, RSS-247 Issue 1
Test Dates	October 15 – 16, 21 and 28-29, 2015
Results	As detailed within this report
Prepared by	Tuyen A. Truong – Test Engineer
Authorized by	Christopher Reynolds – EMC Supervisor
Issue Date	12/11/15
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 28 of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.





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Form Final Report REV 7-20-07 (DW)



Summary

This test report details the partial testing of the WALL SENSOR (with existing FCC ID: 2AFTLSS1) with the following modifications:

The channel plan was changed to operate on all channels (see channel plan exhibit) from 904 to 926 MHz range (formerly only 1 channel (915 MHz) used for operation). Per client, this is only a software change of the frequency. Also power setting was reduced to 10.6 dBm.

The following tests were performed to evaluate the above modifications: 6 dB Bandwidth, 99% Occupied Bandwidth, Fundamental Emissions Output power, Power Spectral Density, and Radiated Spurious Emissions. We found that the product met the above requirements with modification (see Modification Required for Compliance section on page 7 for details). Testing of the original channel plan was previously performed under report EP2231-1.

Robert Kim from ecoVent was present during the testing. The test sample was received in good condition.

Issue No.

Reason for change Original Release Date Issued

December 14, 2015





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Test Methodology

Radiated emission testing were performed according to DTS guidance document 558074D01 v03r03 specified in FCC Guidance for performing compliance measurement on DTS operating under section 15.247, April 19, 2013 and ANSI C63.10 (2013). Radiated Emissions were maximized by rotating the device around its axes as well as varying the test antenna's height and polarity. The device antenna was not maximized separately.

Operating channel frequency = 904 MHz

Operating channel frequency = 915 MHz

Operating channel frequency = 926 MHz

The following bandwidths were used during radiated spurious emissions.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-10GHz	1MHz	3MHz



Product Tested - Configuration Documentation

					EUT	Configuration						
Work	Order:	P2928										
Cor	npany:	ecoVen	t									
Company A	ddress:	24 Cam	bridge St, S	uite 6								
		Charles	town, MA	2129								
C	ontact:	Robert 1	Kim									
				MN			PN				SN	
	EUT:			SS1		90	01-00002				Sample	1
EUT Desci		Wall Se										
EUT TX Free	quency:	904 - 92	26 MHz									
Support Equipment				M	N					SN		
None												
Port Label	Port	Туре	# ports	# populated	cable type	shielded	ferrite	length	max	in/out	under	comment
			-				s	(m)	length (m)		test	
AC prongs	Powe	r AC	1	1	Other	No	No	0.05		in	yes	
AC Output	Powe	r AC	2	2	3-wire	No	No	1		In	yes	•
USB	USB		2	2	USB	Yes	Yes	1	5	in	yes	•
	•	•		•		•						•
Software Operating	Mode Do	escription	1:									
EUT is set to transmi cycle). Maximum an				04 MHz, 915 M	Hz and 926 MI	Iz respectively.	Modulation	type used	is FSK2 w	ith constan	t transmissio	n (100% duty



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Statement of Conformity

The WALL SENSOR has been found to conform to the following parts of 47 CFR and as detailed below:

RSS-GEN	RSS 247	Part 15	Comments
5.3		15.15(b)	There are no controls accessible to the user that varies the output power above specified limits.
5.2		15.19	The label is shown in the label exhibit.
8.4		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
		15.31	The EUT was tested in accordance with the measurement standards in this section.
		15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
		15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
6.7		15.203	EUT employs a permanently connected antenna with -2dBi gain.
	5.5	15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209.
8.8		15.207	Evaluation Not Requested. EUT AC Mains was tested under report EP2231-1
		15.247	The unit complies with the requirements of FCC Part 15.247
	RSS-247		The unit complies with the requirements of RSS-247
6.6		15.247	Occupied Bandwidth measurements were made.



Modifications Required for Compliance

The EUT transmit power was set to 10.6 dBm. The power setting in the original application was 11.6dBm. This power setting is fixed in firmware and therefore the user cannot change the power settings. Ecovent is taking care of the firmware and sets fixed power settings at the factory.





Test Results

Bandwidth

LIMIT

The minimum 6 dB bandwidth shall be at least 500 kHz. [15.247(a) (2)]

MEASUREMENTS / RESULTS

Date:	15-Oct-15	Company: ecoVent				Work Order:	P2928				
Engineer:	Tuyen Truong	EUT Desc: Wall Sensor	EUT Operating Voltage/Frequency: 120Vac/60								
Temp:	22°C	Humidity: 33%	Pressure: 1006mBar								
	Frequency I	Range: 904 - 926 MHz		Measuremen	nt Distance	e: 3 m					
Notes:	FSK2 modulation w	rith 100% duty cycle									
Antenna						6dB BW					
olarization	Frequency		Reading		Limit	Margin	Result				
(H/V)	(MHz)		(KHz)		(KHz)	(KHz)	(Pass/Fai				
V	904		704.953		≥500	+204.953	Pass				
V	915		705.464		≥500	+205.464	Pass				
V	926		695.323		≥500	+195.323	Pass				
Test Site:	EMI Chamber 1	Cable 1: Asset #2051		Cable 2: Asset #2053		Cable 3:					
Analyzer:	Gold	Preamp: none		Antenna: Red-Brown		Preselector:					
4.5	Emissions Calcula	tor v 1.017.148				Copyright Curtis					

Rev.10/8/2015 Spectrum	Analyzers / Receivers / Preselectors Gold	Range 100Hz-26.5 GHz	MN E4407B	Mfr Agilent	SN MY45113816	Asset 1284	Cat 	Calibration Due 4/22/2016	Calibrated on 4/22/2015
	Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015
	Antennas Red-Brown Bilog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A0032406	Asset 1218	Cat I	Calibration Due 12/4/2016	Calibrated on 12/4/2014
	Cables Asset #2051 Asset #2053	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II	Calibration Due 3/8/2016 3/8/2016	Calibrated on 3/8/2015 3/8/2015
W	Meteorological Meters /eather Clock (Pressure Only) TH A#2080		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2080	Cat I	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014 4/2/2015

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



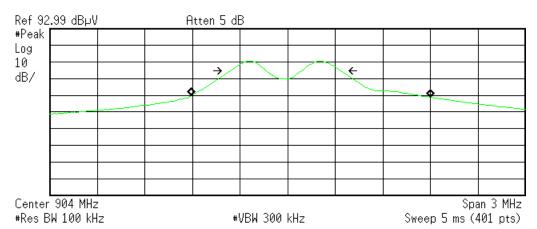
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PLOT(s)

* Agilent 10:49:43 Oct 15, 2015

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Occupied Bandwidth 1.5106 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB

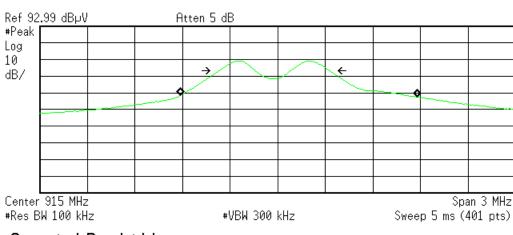
Transmit Freq Error 146.135 kHz x dB Bandwidth 704.953 kHz

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904 MHz - 6dB Bandwidth

* Agilent 11:37:44 Oct 15, 2015

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Occupied Bandwidth 1.4967 MHz 0cc BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error 131.946 kHz x dB Bandwidth 705.464 kHz

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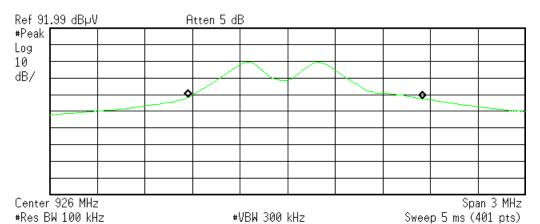
915 MHz - 6dB Bandwidth





* Agilent 09:49:10 Oct 15, 2015

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Occupied Bandwidth 1.4824 MHz

0cc BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error 109.875 kHz x dB Bandwidth 695.323 kHz

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926 MHz - 6dB Bandwidth



Fundamental Emission Output Power

LIMIT

Conducted Output Power 1 Watt [15.247(b) (3)]

Per 558074 D01 DTS Measurement Guidance v0303 Section 9.2.2.2 (AVGSA-1 - Average Conducted Output Power)

MEASUREMENTS / RESULTS

Eut Desc: Wall Sensor Frequency 120Vac/60H	Date:	15-Oct-15		Company:	ecoVent					V	Vork Order:	P2928		
Notes: FSK2 modulation with 100% duty cycle AVGSA-1 Antenna Polarization (H/V)	Engineer:	Tuyen Truong		EUT Desc:	Wall Sens	or		EUT Operating Voltage/Frequency: 120V						
Notes: FSK2 modulation with 100% duty cycle	Temp:	22°C		Humidity:	33%		Pressure:	1006mBar						
Antenna Polarization (H/V) (MHz) (dBμV) (dB) (dBμV) (dB) (dBμV) (dB) (dBμV) (dB) (dBμV/m) (dB) (dBμV/m) (dBm) (dB		Freque	ncy Range:	904 - 926 N	ИНz				Measuremei	nt Distance:	3 m			
Antenna Polarization Frequency (MHz) (dB) (dB	Notes		tion with 100°	% duty cycl	е									
Polarization (H/V) Frequency (MHz) Reading (dBμV) Factor (dB/m) Factor (dB/m) Reading (dBμV/m) Conducted Reading (dBm) Limit (dBm) Margin (dBm) Result (Pass/Fail) V 904.0 73.8 0.0 22.5 1.7 98.0 2.77 4.77 30.0 -25.23 Pass V 915.0 72.1 0.0 22.4 1.7 96.2 0.97 2.97 30.0 -27.03 Pass V 926.0 71.4 0.0 22.5 1.7 95.6 0.37 2.37 30.0 -27.63 Pass Table Result: Pass by -25.23 dB Worst Freq: 904.0 MHz Test Site: EMI Chamber 1 Cable 1: Asset #2051 Cable 2: Asset #2053 Cable 3:											FCC 15.247			
(H/V) (MHz) (dBµV) (dB) (dB/m) (dBµV/m) (dBm)	Antenna			Preamp	Antenna	Cable	Adjusted	•						
V 904.0 73.8 0.0 22.5 1.7 98.0 2.77 4.77 30.0 -25.23 Pass V 915.0 72.1 0.0 22.4 1.7 96.2 0.97 2.97 30.0 -27.03 Pass V 926.0 71.4 0.0 22.5 1.7 95.6 0.37 2.37 30.0 -27.63 Pass Table Result: Pass by -25.23 dB Worst Freq: 904.0 MHz Test Site: EMI Chamber 1 Cable 1: Asset #2051 Cable 2: Asset #2053 Cable 3:	Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	ERP Reading	Conducted Reading	Limit	Result			
v 915.0 72.1 0.0 22.4 1.7 96.2 0.97 2.97 30.0 -27.03 Pass v 926.0 71.4 0.0 22.5 1.7 95.6 0.37 2.37 30.0 -27.63 Pass Table Result: Pass by -25.23 dB Worst Freq: 904.0 MHz Test Site: EMI Chamber 1 Cable 1: Asset #2051 Cable 2: Asset #2053 Cable 3:	(H/V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBm)	(dBm)	(dBm)	(dB)	(Pass/Fail)		
v 926.0 71.4 0.0 22.5 1.7 95.6 0.37 2.37 30.0 -27.63 Pass Table Result: Pass by -25.23 dB Worst Freq: 904.0 MHz Test Site: EMI Chamber 1 Cable 1: Asset #2051 Cable 2: Asset #2053 Cable 3:	V	904.0	73.8	0.0	22.5	1.7	98.0	2.77	4.77	30.0	-25.23	Pass		
Table Result: Pass by -25.23 dB Worst Freq: 904.0 MHz Test Site: EMI Chamber 1 Cable 1: Asset #2051 Cable 2: Asset #2053 Cable 3:	v	915.0	72.1	0.0	22.4	1.7	96.2	0.97	2.97	30.0	-27.03	Pass		
Test Site: EMI Chamber 1 Cable 1: Asset #2051 Cable 2: Asset #2053 Cable 3:	v	926.0	71.4	0.0	22.5	1.7	95.6	0.37	2.37	30.0	-27.63	Pass		
	Tabl	e Result:	Pass	by	-25.23	dB			Wo	orst Freq:	904.0	MHz		
Analyzer: Gold Preamp: none Antenna: Red-Brown Preselector:	Test Site: EMI Chamber 1 Cable 1: Asset #2051								Cable 2: Asset #	et #2053 Cable 3:				
	Analyzer:	Gold		Preamp:	none				Antenna: Red-Bro	wn F	reselector:			

Rev.10/8/2015								
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	4/22/2016	4/22/2015
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz		II	3/21/2017	3/21/2015
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-Brown Bilog	30-2000MHz	JB1	Sunol	A0032406	1218	I	12/4/2016	12/4/2014
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2051	9kHz - 18GHz		Florida RF			Ш	3/8/2016	3/8/2015
Asset #2053	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	3/19/2016	3/19/2014
TH A#2080		HTC-1	HDF		2080	II	4/2/2016	4/2/2015

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

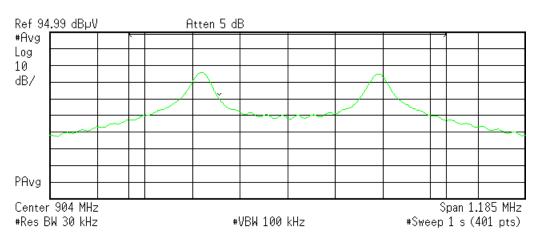


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PLOTS

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Channel Power

 $73.79 \text{ dB}\mu\text{V}/789.4099 \text{ kHz}$

Power Spectral Density

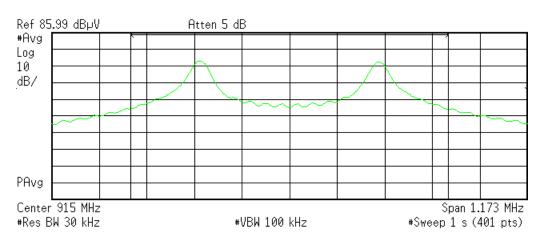
14.82 dBµV/Hz

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904 MHz - Channel Power

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Channel Power

Power Spectral Density

72.14 dBµV/781.9808 kHz

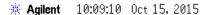
13.20 dB_UV/Hz

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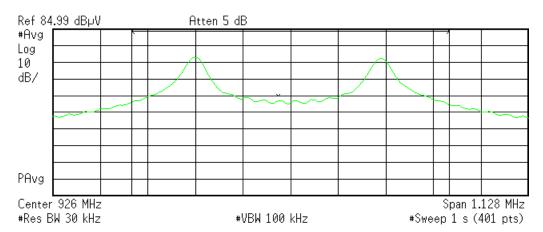
915 MHz - Channel Power







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Channel Power

Power Spectral Density

71.37 dBµV/751.9024 kHz

12.61 dBµV/Hz

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926 MHz - Channel Power



Radiated Spurious Emissions

LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB ...

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS

Radiated Band Edge (902 – 928 MHz)

Date: 15-	Oct-15		Company:	ecoVent						,	Work Order:	P2928			
Engineer: Tuy	yen Truong		EUT Desc:	Wall Senso	or				EUT Opera	Operating Voltage/Frequency: 120VAC					
Temp: 22°	C		Humidity:	33%		Pressure:	1006mBar								
	Freque	ncy Range:	BandEdge						Measureme	nt Distance:	3 m				
Notes: The	e Limit here	is set to -30d	IB from the I	max in-band	d peak PS	D level in 100kH	Iz rbw (this cor	responds to	67.5dBuV/m)						
										FCC B	Band Edge -3	0dB Limit			
Antenna olarization F	Frequency	Reading	Preamp Factor	Antenna Factor	Cable Factor	Adjusted Reading	Limit	Margin	Result	Limit	Margin	Result			
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)			
V	902.0	38.5	0.0	22.5	1.7	62.7				67.5	-4.8	Pass			
V	928.0	37.4	0.0	22.5	1.6	61.5				67.5	-6.0	Pass			
Table	Result:	Pass	by	-4.8	dB				W	orst Freq:	902.0	MHz			
Test Site: EM	II Chamber 1		Cable 1:	Asset #205	51			Cable 2:	Asset #2053		Cable 3:				
Analyzer: Go	ld		Preamp:	none				Antenna:	Red-Brown		Preselector:				

Radiated	Emissio	ns - max	kimum	in-ban	d peal	k PSD lev	el in 100	kHz				
Date:	15-Oct-15		Company:	ecoVent							Work Order:	P2928
Engineer:	Tuyen Truong		EUT Desc:	Wall Senso	or				EUT Opera	ting Voltage	e/Frequency:	120VAC, 60Hz
Temp:	22°C		Humidity:	33%		Pressure	1006mBar					
	Freque	ency Range:	Fundamen	tal Reading					Measureme	nt Distance:	3 m	
Notes:												
			<u> </u>				10					
Antenna			Preamp	Antenna	Cable	Adjusted						
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
MAX Peak PSD i	n 100kHz BW											
V	904.2	73.3	0.0	22.5	1.7	97.5						
Test Site:	EMI Chamber	1	Cable 1:	Asset #205	51			Cable 2:	Asset #2053		Cable 3:	
Analyzer:	Gold		Preamp:	none				Antenna:	: Red-Brown		Preselector:	
CSsoft Radiate	d Emissions Ca	lculator v	1.017.148								Copyrigh	t Curtis-Straus LLC 2000
Adjusted Readi	ng = Reading -	Preamp Fact	or + Antenn	a Factor + 0	Cable Fac	tor						





Rev.10/8/2015 Spectrum Analyzers / Receivers / Preselectors Range ΜN Mfr SN Cat **Calibration Due** Calibrated on MY45113816 Gold 100Hz-26.5 GHz E4407B Agilent 1284 1 4/22/2016 4/22/2015 Radiated Emissions Sites FCC Code VCCI Code Cat **Calibration Due** Calibrated on IC Code Range EMI Chamber 1 719150 2762A-6 A-0015 30-1000MHz 3/21/2017 3/21/2015 Antennas Range MN Mfr SN Cat **Calibration Due** Calibrated on 30-2000MHz Red-Brown Bilog JB1 Sunol A0032406 1218 12/4/2016 12/4/2014 Range 9kHz - 18GHz 9kHz - 18GHz Calibrated on Cables Mfr Cat Calibration Due Florida RF Asset #2051 3/8/2016 3/8/2015 Asset #2053 Florida RF 3/8/2016 3/8/2015 Meteorological Meters ΜN Mfr SN Cat **Calibration Due** Calibrated on 3/19/2014 Weather Clock (Pressure Only) BA928 Oregon Scientific C3166-1 831 3/19/2016 TH A#2080 HTC-1 HDE 2080 Ш 4/2/2016 4/2/2015





Radiated Spurious EMI (30 to 10000 MHz)

Radiated Emissions Table Date: 16-Oct-15

Company: ecoVent

Frequency Range: 30 - 1000MHz

Work Order: P2928

Engineer: Tuyen Truong EUT Desc: Wall Sensor

EUT Operating Voltage/Frequency: 120Vac/60Hz

Oct 16 -Temp: 22°C Oct 21 - Temp: 22.4°C Humidity: 0.31 Humidity: 32%

Pressure: 1003mBar Pressure: 1018mBar

Measurement Distance: 3 m

Notes: TX on 904 MHz

EUT TX Freq: 904 - 926 MHz

Power setting: 10.6 dBm

Spectrum Analyzer setting: RBW = 120KHz, VBW = 1MHz, span = 0 Hz, 401 points, sweep rate = auto, Detector: QuasiPeak.

Antenna			Preamp	Antenna	Cable	Adjusted					FCC 15.209	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H/V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
V	38.0	32.8	25.3	15.4	0.4	23.3				40.0	-16.7	Pass
V	73.0	29.8	25.4	8.2	0.5	13.1				40.0	-26.9	Pass
V	108.0	35.5	25.3	12.2	0.5	22.9				43.5	-20.6	Pass
h	108.0	35.5	25.3	12.2	0.5	22.9				43.5	-20.6	Pass
V	149.9	38.8	25.1	12.5	0.7	26.9				43.5	-16.6	Pass
V	608.0	37.2	25.2	18.9	1.4	32.3				46.0	-13.7	Pass
h	608.0	36.1	25.2	18.9	1.4	31.2				46.0	-14.8	Pass
V	614.0	33.9	25.3	19.2	1.5	29.3				46.0	-16.7	Pass
h	614.0	31.9	25.3	19.2	1.5	27.3				46.0	-18.7	Pass
V	961.6	30.8	24.4	22.9	1.7	31.0				54.0	-23.0	Pass

Table Result: Pass -13.7 dB Worst Freq: 608.0 MHz

Test Site: EMI Chamber 1

Cable 1: Asset #2051

Cable 2: Asset #2053

Cable 3:

Analyzer: Gold

Preamp: Blue-Blk

Antenna: Red-Brown

Preselector: ---

CSsoft Radiated Emissions Calculator Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

v 1.017.148

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Rev.10/8/2015

Nev. 10/0/2013								
Spectrum Analyzers / Receivers / Preselectors Gold	Range 100Hz-26.5 GHz	MN E4407B	Mfr Agilent	SN MY45113816	Asset 1284	Cat I	Calibration Due 4/22/2016	Calibrated on 4/22/2015
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz		II	3/21/2017	3/21/2015
Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue-Black	0.009-2000MHz	ZFL-1000-LN	CS	N/A	800	II	12/26/2015	12/26/2014
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-Brown Bilog	30-2000MHz	JB1	Sunol	A0032406	1218	- 1	12/4/2016	12/4/2014
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2051	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Asset #2053	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	1	3/19/2016	3/19/2014
TH A#2080		HTC-1	HDF		2080	II	4/2/2016	4/2/2015





Radiated Emissions Table Date: 28-Oct-15 Company: ecoVent Work Order: P2928 Engineer: Tuyen Truong EUT Desc: Wall Sensor EUT Operating Voltage/Frequency: 120Vac/60Hz Temp: 21°C Humidity: 26% Pressure: 1013 mBar Frequency Range: 1 - 6 GHz Measurement Distance: 3 m Notes: 10.6 dBm power setting TX on 904 MHz EUT Tx Freq: 904-926 MHz Spectrum Analyzer setting: RBW = 1MHz , VBW = 3MHz (Peak reading) & VBW = 10 Hz (Avg reading), span < 10 MHz, 401 points, sweep rate = auto, Detector: Peak FCC 15.209 High Frequency - Peak FCC 15.209 High Frequency - Average Antenna Peak Average Antenna Cable Adjusted Adjusted Polarization Reading Factor Peak Reading Avg Reading Reading Factor Factor Limit Margin Result Margin Result (H/V) (MHz) (dBµV) (dBµV) (dB) (dB/m) (dB) (dBµV/m (dBµV/m) (dBµV/m (Pass/Fail (dBµV/m) 3.2 3.2 1808.0 38 84 28.1 18.8 30.6 53.8 43.1 74.0 -20.2 Pass 54.0 -10.9 Pass 18.8 30.6 41.9 54.0 1808.0 26.9 74.0 -20.4 -12.1 38.61 53.6 Pass Pass 32.9 32.9 45.8 42.7 74.0 74.0 -16.3 -18.5 -8.2 -11.3 2712.0 39.66 27.8 18.9 4.0 57.7 Pass 54.0 Pass 2712.0 37.5 24.7 18.9 4.0 55.5 54.0 Pass Pass 4.6 4.6 5.0 3616.0 3616.0 27.4 21.8 39.08 18.5 33.3 58.5 46.8 74.0 -15.5 54.0 -7.2 Pass 36.57 18.5 33.3 56.0 41.2 74.0 -18.0 Pass 54.0 -12.8 Pass 34.2 74.0 5424.0 37.08 23.6 16.4 34.8 5.6 61.1 47.6 74.0 -12.9 Pass 54.0 -6.4 Pass Worst Freq: Table Result: Pass by -1.0 dB 4520.0 MHz Cable 3: Analyzer: Asset #1327 Preamp: Brown

CSsoft Radiated Emissions Calculator v1.017.148

Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor Antenna: Blue Horn Copyright Curtis-Straus LLC 200

Date:	28-Oct-15		(Company:	ecoVent							v	ork Order:	P2928
Engineer:	Tuyen Truong			EUT Desc:	Wall Sens	or		EUT Operating Voltage/Frequer						120Vac/60Hz
Temp:	21°C			Humidity:	26%			Pressure: 1013 mBar						
Frequency Range: 6 - 10 GHz Measurement Distance: 1 m										1 m				
	TX on 904 MH	z	: PRW = 1M	IH \/R\//	= 3MHz (D	ook roodi	ng) & VBW = 10	Hz (Ava reading	s) apan < 10	MH= 401 poi		UT Tx Freq:		
	Opcolium 7 mic	nyzor somme	J. KOVV – HV	IIIZ, VDVV	- SIVII IZ (I	eak reau	119) & V D V V = 10	TIZ (Avg reading	j), span ≤ 10 i	viriz, 401 poi	ilis, sweep ia	ile – auto, De	lector. I eak	
Antenna	Орестинг инс	Peak	Average	Preamp	Antenna	Cable	Adjusted							ency - Averaç
Antenna	Frequency													
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted	FCC 15.209	High Freque	ency - Peak	FCC 15.209 I	ligh Freque	ency - Averag
Antenna Polarization	Frequency	Peak Reading	Average Reading	Pream p Factor	Antenna Factor	Cable Factor	Adjusted Peak Reading	Adjusted Avg Reading	FCC 15.209 Limit	High Freque	ency - Peak Result	FCC 15.209 I	High Freque	ency - Averag
Antenna Polarization (H/V) v	Frequency (MHz)	Peak Reading (dBµV)	Average Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB) 7.4	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail) Pass	Limit (dBµV/m)	High Freque Margin (dB)	Result (Pass/Fail) Pass
Antenna Polarization (H/V) V Table	Frequency (MHz) 9040.0	Peak Reading (dBμV) 39.23	Average Reading (dBµV) 31.3	Preamp Factor (dB) 15.7	Antenna Factor (dB/m) 36.6	Cable Factor (dB) 7.4 dB	Adjusted Peak Reading (dBµV/m)	Adjusted Avg Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB) -16.0	Result (Pass/Fail) Pass	Limit (dBµV/m) 63.5 Drst Freq:	Margin (dB) -3.9	Result (Pass/Fail) Pass

Rev.10/19/2015								
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SA EMI Chamber (1327)	9kHz-13.2 GHz	E4405B	Agilent	MY45103416	1327	I	7/10/2016	7/10/2015
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 2	719150	2762A-7	A-0015	30-1000MHz		II	3/22/2017	3/22/2015
Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Brown	1-10GHz	CS	CS	N/A	1523	II	4/9/2016	10/8/2015
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Hom	1-18Ghz	3117	ETS	157647	1861	I	2/8/2017	2/8/2015
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2052	9kHz - 18GHz		Florida RF			Ш	3/8/2016	3/8/2015
Asset #1787	9kHz - 18GHz		Florida RF			II	3/21/2016	3/21/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	1	3/19/2016	3/19/2014
TH A#2081		HTC-1	HDE		2081	Ш	4/2/2016	4/2/2015





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Radiated Emissions Table

 Date:
 21-Oct-15
 Company:
 ecoVent
 Work Order:
 P2928

 Engineer:
 Tuyen Truong
 EUT Desc:
 Wall Sensor
 EUT Operating Voltage/Frequency:
 120Vac/60Hz

Temp: 22.4°C Humidity: 32% Pressure: 1018mBar

Frequency Range: 30 to 1000 MHz Measurement Distance: 3 m

Notes: TX on 915 MHz

EUT TX Freq: 904 - 926 MHz

Power setting: 10.6 dBm

Spectrum Analyzer setting: RBW = 120KHz , VBW = 1MHz, span = 0 Hz, 401 points, sweep rate = auto, Detector: QuasiPeak.

•											FCC 15.209	
Antenna			Preamp	Antenna	Cable	Adjusted		T			1	ı
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H/V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
V	38.25	34.9	25.3	15.2	0.4	25.2				40.0	-14.8	Pass
V	73.0	29.0	25.4	8.2	0.5	12.3				40.0	-27.7	Pass
V	108.75	29.7	25.3	12.3	0.6	17.3				43.5	-26.2	Pass
V	149.9	34.2	25.1	12.5	0.7	22.3				43.5	-21.2	Pass
h	608.0	38.6	25.2	18.9	1.4	33.7				46.0	-12.3	Pass
V	608.0	37.9	25.2	18.9	1.4	33.0				46.0	-13.0	Pass
h	614.0	34.1	25.3	19.2	1.5	29.5				46.0	-16.5	Pass
v	614.0	33.4	25.3	19.2	1.5	28.8				46.0	-17.2	Pass
V	962.7	32.0	24.4	22.0	17	32.2				54.0	-21.8	Pass

Table Result:Passby-12.3 dBWorst Freq:608.0 MHz

 Test Site:
 EMI Chamber 1
 Cable 1: Asset #2051

 Analyzer:
 Gold
 Preamp: Blue-Blk

Preamp: Blue-Blk Antenna: Red-Brown v 1.017.148

Cable 2: Asset #2053

CSsoft Radiated Emissions Calculator v 1.017.148
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor

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Rev.10/8/2015

Rev.10/8/2015								
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	1	4/22/2016	4/22/2015
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz		II	3/21/2017	3/21/2015
Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue-Black	0.009-2000MHz	ZFL-1000-LN	CS	N/A	800	II	12/26/2015	12/26/2014
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-Brown Bilog	30-2000MHz	JB1	Sunol	A0032406	1218	- 1	12/4/2016	12/4/2014
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2051	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Asset #2053	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	1	3/19/2016	3/19/2014
TH A#2080		HTC-1	HDE		2080	i	4/2/2016	4/2/2015
					_500			0.0

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Tal	ole		
Date: 28-Oct-15	Company: ecoVent		Work Order: P2928
Engineer: Tuyen Truong	EUT Desc: Wall Sensor		EUT Operating Voltage/Frequency: 120Vac/60Hz
Temp: 21°C	Humidity: 26%	Pressure: 1013 mBar	
Freque	ncy Range: 1 - 6 GHz		Measurement Distance: 3 m
Notes: 10.6 dBm power setting			EUT Tx Freq: 904-926 MHz

TX on 915 MHz
Spectrum Analyzer setting: RBW = 1MHz , VBW = 3MHz (Peak reading) & VBW = 10 Hz (Avg reading), span ≤ 10 MHz, 401 points, sweep rate = auto. Detector: Peak

Spectrum Analyzer setting: RBW = 1MHz , VBW = 3MHz (Peak reading) & VBW = 10 Hz (Avg reading), span ≤ 10 MHz, 401 points, sweep rate = auto, Detector: Peak.															
					FCC 15.209 High Frequency - Peak FCC 15.209 High				i.209 High Fr	equency -					
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted				Average			
Polarization	Frequency	Reading	Reading	Factor	Factor	Factor	Peak Reading	Avg Reading	Limit	Margin	Result	Limit	Margin	Result	
(H/V)	(MHz)	(dBµV)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
h	1830.0	37.79	26.5	18.9	30.7	3.3	52.9	41.6	74.0	-21.1	Pass	54.0	-12.4	Pass	
v	1830.0	37.44	26.8	18.9	30.7	3.3	52.5	41.9	74.0	-21.5	Pass	54.0	-12.1	Pass	
h	2745.0	39.54	29.5	18.9	33.0	4.0	57.6	47.6	74.0	-16.4	Pass	54.0	-6.4	Pass	
v	2745.0	38.6	27.7	18.9	33.0	4.0	56.7	45.8	74.0	-17.3	Pass	54.0	-8.2	Pass	
h	3660.0	40.19	31.4	18.5	33.4	4.7	59.8	51.0	74.0	-14.2	Pass	54.0	-3.0	Pass	
v	3660.0	37.3	26.7	18.5	33.4	4.7	56.9	46.3	74.0	-17.1	Pass	54.0	-7.7	Pass	
h	4575.0	39.52	30.6	17.2	34.3	4.8	61.4	52.5	74.0	-12.6	Pass	54.0	-1.5	Pass	
v	4575.0	37.86	28.3	17.2	34.3	4.8	59.8	50.2	74.0	-14.2	Pass	54.0	-3.8	Pass	
h	5490.0	37.01	24.4	16.4	34.8	5.5	60.9	48.3	74.0	-13.1	Pass	54.0	-5.7	Pass	
V	5490.0	37.14	25.9	16.4	34.8	5.5	61.0	49.8	74.0	-13.0	Pass	54.0	-4.2	Pass	

Table Result: Pass by -1.5 dB Worst Freq: 4575.0 MHz

Test Site: EMI Chamber 2 Cable 1: Asset #209
Analyzer: Asset #1327 Preamp: Brown
Ssoft Radiated Emissions Calculator v1.017.148

Antenna: Blue Horn

Preselector: --Copyright Curtis-Straus LLC





Radiated Emissions Table Date: 28-Oct-15 Company: ecoVent Work Order: P2928 Engineer: Tuyen Truong EUT Desc: Wall Sensor EUT Operating Voltage/Frequency: 120Vac/60Hz Temp: 21°C Humidity: 26% Pressure: 1013 mBar Frequency Range: 6 - 10 GHz Measurement Distance: 1 m Notes: TX on 915 MHz , Power setting: 10.6dBm EUT Tx Freq: 904-926 MHz Spectrum Analyzer setting: RBW = 1MHz, VBW = 3MHz (Peak reading) & VBW = 10 Hz (Avg reading), span ≤ 10 MHz, 401 points, sweep rate = auto, Detector: Peak FCC 15.209 High Frequency - Peak FCC 15.209 High Frequency - Average Adjusted Antenna Peak Average Preamp Antenna Cable Adjusted Peak Reading Avg Reading Margir Margir (H/V) (MHz) (dBµV) (dBµV (dB) (dB/m) (dB) (dBµV/m (dBµV/m) (Pass/Fail (Pass/Fail) 60.8 Pass Table Result: 9150 0 MHz Pass bv -2 7 dB Worst Freq: Asset #2052 Cable 3: Analyzer: Asset #1327 Antenna: Blue Horn Preselector: --Preamp: Brown soft Radiated Emissions Calculator v 1.017.148 Adjusted Reading = Reading - Preamp Factor + Ante

Rev.10/19/2015 Spectrum Analyzers / Receivers / Preselectors Range MN Mfr SN Asset Cat Calibration Due Calibrated on 9kHz-13.2 GHz MY45103416 SA EMI Chamber (1327) E4405B Agilent 1327 1 7/10/2016 7/10/2015 Radiated Emissions Sites FCC Code IC Code VCCI Code Cat Calibration Due Calibrated on Range EMI Chamber 2 719150 2762A-7 A-0015 30-1000MHz Ш 3/22/2017 3/22/2015 Calibration Due Preamps/Couplers Attenuators / Filters Range MN Mfr SN Cat Calibrated on Asset Brown 1-10GHz CS CS N/A 1523 Ш 4/9/2016 10/8/2015 MN Mfr Antennas Range SN Asset Cat Calibration Due Calibrated on Blue Horn 3117 1861 2/8/2017 2/8/2015 1-18Ghz ETS 157647 Cables Range Mfr Cat **Calibration Due** Calibrated on Asset #2052 9kHz - 18GHz Florida RF 3/8/2016 3/8/2015 Asset #1787 9kHz - 18GHz Florida RF П 3/21/2016 3/21/2015 Meteorological Meters MN Mfr SN Asset Cat Calibration Due Calibrated on Oregon Scientific Weather Clock (Pressure Only) **BA928** C3166-1 831 3/19/2016 3/19/2014 TH A#2081 HTC-1 HDE 2081 Ш 4/2/2016 4/2/2015

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Table Work Order: P2928 Date: 21-Oct-15 Company: ecoVent Engineer: Tuyen Truong EUT Desc: Wall Sensor EUT Operating Voltage/Frequency: 120Vac/60Hz Temp: 22.4°C Humidity: 32% Pressure: 1018mBar Frequency Range: 30 to 1000 MHz Measurement Distance: 3 m Notes: TX on 926 MHz EUT TX Freq: 904 - 926 MHz Power setting: 10.6 dBm Spectrum Analyzer setting: RBW = 120KHz, VBW = 1MHz, span = 0 Hz, 401 points, sweep rate = auto, Detector: QuasiPeak FCC 15.209 Preamp Antenna Antenna Cable Adjusted Polarization Frequency Reading Factor Factor Factor Reading I imit Margin Result Limit Margin Result (H/V) (MHz) (dBµV) (dB) (dB/m) (dB) (dBµV/m) dBµV/m (dB) (Pass/Fail) (dBµV/m) (dB) (Pass/Fail) 38.25 24.7 25.3 15.2 -25.0Pass 0.4 15.0 40.0 30.3 25.4 8.2 -26.4 Pass 73.0 0.5 13.6 40.0 108.75 12.3 43.5 -28.7 Pass 27.2 25.3 0.6 14.8 ---149.9 33.0 25.1 12.5 0.7 21.1 43.5 -22.4Pass 608.0 399 25.2 18 9 14 35.0 ---------46.0 -11 0 Pass h 608.0 39.5 25.2 18 9 14 34 6 ------46.0 -11 4 Pass h 614.0 34.6 25.3 19.2 1.5 30.0 ---------46.0 -16.0 Pass 614.0 34.8 25.3 19.2 1.5 30.2 46.0 -15.8 Pass 962.7 29.6 24.4 22.9 29.8 54.0 -24.2Pass

Table Result: Pass by -11.0 dB Worst Freq: 608.0 MHz

Test Site: EMI Chamber Cable 1: Asset #2051 Analyzer: Gold Preamp: Blue-Blk CSsoft Radiated Emissions Calculator

v 1.017.148 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Facto

Cable 2: Asset #2053 Antenna: Red-Brown

Cable 3: --Preselector: ---

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Rev.10/8/2015 Spectrum Analyzers / Receivers / Preselectors Range MN Mfr SN Asset Cat Calibration Due Calibrated on 100Hz-26.5 GHz Gold E4407B Agilent MY45113816 1284 1 4/22/2016 4/22/2015 FCC Code VCCI Code Calibrated on **Radiated Emissions Sites** IC Code Cat **Calibration Due** Range EMI Chamber 1 A-0015 30-1000MHz 3/21/2017 3/21/2015 Preamps/Couplers Attenuators / Filters **Range MN** 0.009-2000MHz ZFL-1000-LN Calibrated on Mfr SN Asset Cat **Calibration Due** Blue-Black N/A 800 12/26/2015 12/26/2014 CS Ш Mfr **Calibration Due** Calibrated on Antennas Range SN Cat Red-Brown Bilog 30-2000MHz JB1 Sunol A0032406 1218 12/4/2016 12/4/2014 **Range** 9kHz - 18GHz Calibrated on Cables Mfr Cat **Calibration Due** Asset #2051 Florida RF 3/8/2016 3/8/2015 Asset #2053 9kHz - 18GHz Florida RF 3/8/2016 3/8/2015 **Meteorological Meters** MN Mfr SN Asset Cat **Calibration Due** Calibrated on 3/19/2014 Weather Clock (Pressure Only) BA928 Oregon Scientific C3166-1 831 3/19/2016 TH A#2080 HTC-1 HDE 2080 Ш 4/2/2016 4/2/2015

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Date:	21-Oct-15			Company:	ecoVent							V	Vork Order:	P2928
Engineer:	Tuyen Truong			EUT Desc:	Wall Sens	or	EUT Operating Voltage/Frequency: 120Vac							
Temp:	22.4°C			Humidity:	32%		Pressure: 1018mBar							
· · · · · · · · · · · · · · · · · · ·		Freque	ncy Range:	1 - 6 GHz							Measureme	nt Distance:	3 m	
Notes:	TX on High cha	annel									E	UT Tx Freq:	904 - 926 M	Hz
	Power setting:										_			_
	Spectrum Ana	lyzer setting	g: RBW = 1N	ИHz , VBW	= 3MHz (P	eak readi	ng) & VBW = 10	Hz (Avg reading), span ≤ 10 l	MHz, 401 po	ints, sweep ra	ate = auto, De	etector: Peak	
									FCC 15.209	High Frequ	ency - Peak	FCC 15.3	209 High Fre	quency -
Antenna		Peak	Average	Preamp	Antenna	Cable	Adjusted	Adjusted					Average	
Polarization	Frequency	Reading	Reading	Factor	Factor	Factor	Peak Reading	Avg Reading	Limit	Margin	Result	Limit	Margin	Result
(H/V)	(MHz)	(dBµV)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail
V	1852.0	39.59	30.8	18.9	30.9	2.7	54.3	45.5	74.0	-19.7	Pass	54.0	-8.5	Pass
v	2778.0	40.04	28.8	18.9	33.0	3.5	57.6	46.4	74.0	-16.4	Pass	54.0	-7.6	Pass
h	2778.0	41.87	30.3	18.9	33.0	3.5	59.5	47.9	74.0	-14.5	Pass	54.0	-6.1	Pass
v	3704.0	41.01	29.5	18.5	33.4	4.2	60.1	48.6	74.0	-13.9	Pass	54.0	-5.4	Pass
h	3704.0	43.56	31.7	18.5	33.4	4.2	62.7	50.8	74.0	-11.3	Pass	54.0	-3.2	Pass
V	4630.0	41.58	30.4	17.1	34.3	4.6	63.4	52.2	74.0	-10.6	Pass	54.0	-1.8	Pass
h	4630.0	43.5	32.0	17.1	34.3	4.6	65.3	53.8	74.0	-8.7	Pass	54.0	-0.2	Pass
v	5556.0	38.33	25.4	16.4	34.9	5.2	62.0	49.1	74.0	-12.0	Pass	54.0	-4.9	Pass
h	5556.0	37.7	23.2	16.4	34.9	5.2	61.4	46.9	74.0	-12.6	Pass	54.0	-7.1	Pass
Table	e Result:		Pass	by	-0.2	dB					We	orst Freq:	4630.0	MHz
Test Site:	EMI Chamber	1		Cable 1:	Asset #20	51				Cable 2:	Asset #2053		Cable 3:	
Analyzer:	Cold			Preamp:	Drawa					Antonna	Blue Horn		Preselector:	

Rev.10/19/2015								
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	4/22/2016	4/22/2015
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz		II	3/21/2017	3/21/2015
Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Brown	1-10GHz	CS	CS	N/A	1523	II	4/9/2016	10/8/2015
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Hom	1-18Ghz	3117	ETS	157647	1861	I	2/8/2017	2/8/2015
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2051	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Asset #2053	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	- 1	3/19/2016	3/19/2014
TH A#2080		HTC-1	HDE		2080	П	4/2/2016	4/2/2015





Radiated Emissions Table Date: 29-Oct-15 Work Order: P2928 Company: ecoVent Engineer: Tuyen Truong EUT Desc: Wall Sensor EUT Operating Voltage/Frequency: 120Vac/60Hz Temp: 22°C Humidity: 51% Pressure: 998mBar Frequency Range: 6 to 10 GHz Measurement Distance: 1 m Notes: TX on 926 MHz EUT Tx Freq: 904 - 926 MHz Power setting: 10.6 dBm Spectrum Analyzer setting: RBW = 1MHz , VBW = 3MHz (Peak reading) & VBW = 10 Hz (Avg reading), span < 10 MHz, 401 points, sweep rate = auto, Detector: Peak FCC 15.209 High Frequency -FCC 15.209 High Frequency - Peak Peak Cable Adjusted Average Antenna Average Preamp Antenna Adjusted Polarization Reading Reading Factor Factor Factor Peak Reading Avg Reading Limit Margin Result Frequency Limit Margin Result (H/V) (MHz) (dBµV) (dBµV) (dB/m) (dBµV/m) (dBµV/m) (dBµV/m) (Pass/Fail) (dBµV/m 9260.0 39.93 31.4 15.7 36.8 7.6 68.6 60.1 83.5 -14.9 Pass 63.5 Pass Table Result: **Pass** -3.4 dB Worst Freq: 9260.0 MHz Test Site: EMI Chamber 2 Cable 1: Asset #2052 Cable 3: -Cable 2: Asset #1787 Analyzer: Asset #1327 Ssoft Radiated Emissions Calculator Antenna: Blue Horn Preselector: ---Preamp: Brown v 1.017.148 Copyright Curtis-Straus LLC 20

Rev.10/19/2015								
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
SA EMI Chamber (1327)	9kHz-13.2 GHz	E4405B	Agilent	MY45103416	1327	I	7/10/2016	7/10/2015
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 2	719150	2762A-7	A-0015	30-1000MHz		II	3/22/2017	3/22/2015
Preamps /Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Brown	1-10GHz	CS	CS	N/A	1523	II	4/9/2016	10/8/2015
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Hom	1-18Ghz	3117	ETS	157647	1861	I	2/8/2017	2/8/2015
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2052	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Asset #1787	9kHz - 18GHz		Florida RF			II	3/21/2016	3/21/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	- 1	3/19/2016	3/19/2014
TH A#2081		HTC-1	HDE		2081	II	4/2/2016	4/2/2015



Power Spectral Density

LIMIT

...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. [15.247(e)]

Per 558074 D01 DTS Measurement Guidance v0303 Section 10.3 (AVGPSD-1)

MEASUREMENTS / RESULTS

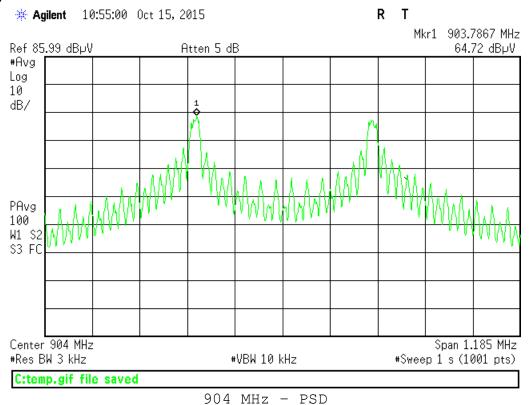
Date:	ectral De		Company:	ecoVent					٧	Vork Order:	P2928			
Engineer:	Tuyen Truong		EUT Desc:		or			EUT Operating Voltage/Frequency: 120Vac/60H						
Temp:	22°C		Humidity:	33%		Pressure:	1006mBar	-						
Frequency Range: 904 - 926 MHz Measure										3 m				
Note s:	FSK2 modulat AVGPSD-1	ion with 100	% duty cycl	е										
Antenna			Preamp	Antenna	Cable	Adjusted	Adjusted	Final		FCC 15.247				
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	ERP Reading	Conducted Reading	Limit	Margin	Result			
(H/V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBm)	(dBm)	(dBm)	(dB)	(Pass/Fail)			
V	904.0	64.7	0.0	22.5	1.7	88.9	-6.33	-4.33	8.0	-12.33	Pass			
V	915.0	63.3	0.0	22.4	1.7	87.4	-7.83	-5.83	8.0	-13.83	Pass			
V	926.0	61.4	0.0	22.5	1.7	85.6	-9.63	-7.63	8.0	-15.63	Pass			
Tabl	e Result:	Pass	by	-12.33	dB			W	orst Freq:	904.0	MHz			
Test Site:	EMI Chamber	1	Cable 1:		Cable 2: Asset #2053									
Analyzer:	Gold		Preamp:	none				Antenna: Red-Brown	F	Preselector:				
CSsoft Radiated			1.017.148							Copyright Curtis	s-Straus LLC 2000			

Rev.10/8/2015								
Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	4/22/2016	4/22/2015
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range		Cat	Calibration Due	Calibrated on
EMI Chamber 1	719150	2762A-6	A-0015	30-1000MHz		II	3/21/2017	3/21/2015
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red-Brown Bilog	30-2000MHz	JB1	Sunol	A0032406	1218	I	12/4/2016	12/4/2014
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2051	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Asset #2053	9kHz - 18GHz		Florida RF			II	3/8/2016	3/8/2015
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	3/19/2016	3/19/2014
TH A#2080		HTC-1	HDE		2080	II	4/2/2016	4/2/2015





PLOTS



* Agilent 11:58:38 Oct 15, 2015 R T Mkr1 914.7806 MHz Ref 85.99 dB UV Atten 5 dB 63.29 dBµV #Avg Log 10 dB/ PAvg 100 W1 S2 S3 FC Center 915 MHz Span 1.173 MHz #Res BW 3 kHz #VBW 10 kHz #Sweep 1 s (1001 pts) C:temp.gif file saved

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915 MHz - PSD



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R T * Agilent 11:17:56 Oct 15, 2015 Mkr1 925.7767 MHz Atten 5 dB Ref 85.99 dBµV 61.35 dB µV #Avg Log 10 dB/ PAvg 100 W1 S2 S3 FC Center 926 MHz Span 1.128 MHz #Res BW 3 kHz #VBW 10 kHz #Sweep 1 s (1001 pts)

926 MHz - PSD

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Occupied Bandwidth

REQUIREMENT

When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 6.6]

MEASUREMENTS / RESULTS

Date: 15-Oct-15 Engineer: Tuyen Truong Temp: 22°C		Company: ecoVent		Work Order: P2928 EUT Operating Voltage/Frequency: 120Vac/60Hz			
		EUT Desc: Wall Sensor	EUT O				
		Humidity: 33%	Pressure: 1006mBar				
	Frequency I	Range: 904 - 926 MHz	Measur	rement Distance: 3 m			
Notes:	FSK2 modulation w	rith 100% duty cycle					
Antenna							
Polarization	Frequency		Occupied Bandwidth Reading				
(H/V)	(MHz)		(KHz)				
V	904		789.4099				
V	915		781.9808				
V	926		751.9024				
Test Site:	EMI Chamber 1	Cable 1: Asset #2051	Cable 2: Asset	#2053 Cable 3:			
Analyzer:	Gold	Preamp: none	Antenna: Red-Br	own Preselector:			
Ssoft Radiate	d Emissions Calcula	tor v 1.017.148		Copyright Curtis-Straus LLC 2000			
diveted Poodi	ng = Reading - Prea	mp Factor + Antenna Factor + Cable Factor	or				

Rev.10/8/2015 Spectrum Analyzers / Receivers / Preselectors Gold	Range 100Hz-26.5 GHz	MN E4407B	Mfr Agilent	SN MY45113816	Asset 1284	Cat 	Calibration Due 4/22/2016	Calibrated on 4/22/2015
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/21/2017	Calibrated on 3/21/2015
Antennas Red-Brown Bilog	Range 30-2000MHz	MN JB1	M fr Sunol	SN A0032406	Asset 1218	Cat I	Calibration Due 12/4/2016	Calibrated on 12/4/2014
Cables Asset #2051 Asset #2053	Range 9kHz - 18GHz 9kHz - 18GHz		M fr Florida RF Florida RF			Cat II	Calibration Due 3/8/2016 3/8/2016	Calibrated on 3/8/2015 3/8/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2080		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2080	Cat 	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014 4/2/2015

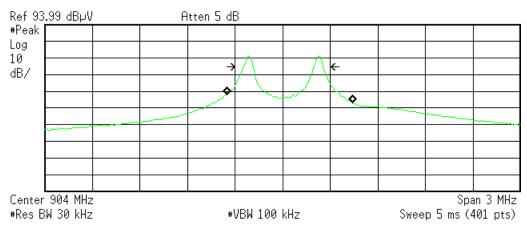




Plot(s)

* Agilent 10:28:18 Oct 15, 2015

R T



Occupied Bandwidth 789.4099 kHz Occ BW % Pwr 99.00 % x dB -6.00 dB

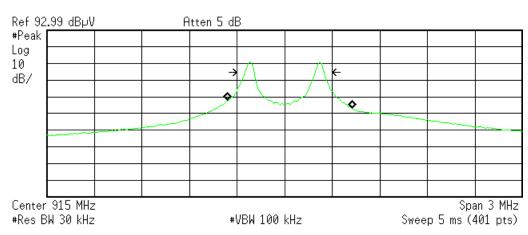
Transmit Freq Error 44.412 kHz x dB Bandwidth 498.857 kHz

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904 MHz - Occupied Bandwidth

* Agilent 11:49:03 Oct 15, 2015

R T



Occupied Bandwidth 781.9808 kHz 0cc BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error 34.526 kHz Occupied Bandwidth 498.191 kHz

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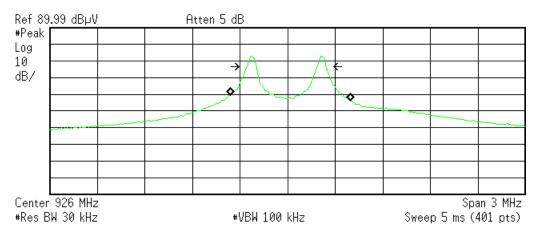
915 MHz - Occupied Bandwidth



ACCREDITED

* Agilent 10:04:38 Oct 15, 2015

R T



Occupied Bandwidth 751.9024 kHz

Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error 18.531 kHz x dB Bandwidth 497.846 kHz

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926 MHz - Occupied Bandwidth



Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radiated Emissions (30-1000MHz) NIST	5.6dB	N/A
CISPR	4.6dB	5.2dB (Ucispr)
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions NIST CISPR	3.9dB	N/A 3.6dB (Ucispr)
Telco Conducted Emissions (Current)	3.6dB 2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency (@ 2.4GHz)	3.23 x 10 ⁻⁸	1 x 10 ⁻⁷
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation:	0.400B	0.7300
 Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency 	3.4% 0.3dB	5% 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
Conducted emission of receivers	1.3dB	3dB
Radiated emission of transmitter, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of transmitter, valid up to 80GHz	3.3dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Humidity	2.37%	5%
Temperature	0.7°C	1.0°C
Time	4.1%	10%
RF Power Density, Conducted	0.4dB	3dB
DC and low frequency voltages	1.3%	3%
Voltage (AC, <10kHz)	1.3%	2%
Voltage (DC)	0.62%	1%
The above reflects a 95% confidence level		



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Latino Cod No. 1827 01

Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless

- 1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
- 2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
- The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
 These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof
- 4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
- 5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS,"
 "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS
 (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.
- 13. CLIÉNT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABÍLITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.
- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.



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15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HERE! INDEED

(B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

The complete list of the Approved Subcontractors Curtis-Straus may use to delegate the performance of work can be provided upon request. Rev.160009121(2)_#684340 v14CS



