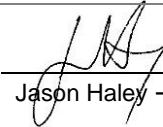




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Test Report

Report No	EP3237-1
Client	Schechter Tech LLC DBA Temperature Alert
Address	108 Lincoln Street, Suite BA Boston, MA 02111
Phone	617-326-7300
Items tested	Zpoint OEM Module
FCC ID	SZ9TM-ZP05X
IC ID	10940A- TMZP05X
FRN	0022436158
Equipment Type	DTS
FCC/IC Rule Parts	47 CFR 15.247, RSS 247 issue 1
Test Dates	12/16/2015 through 12/18/2016
Results	As detailed within this report
Prepared by	 _____ Jason Haley – Test Engineer
Authorized by	 _____ Christopher Reynolds – EMC Supervisor
Issue Date	5/10/16
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 35 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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Cert No. 1627-01

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Form Final Report REV 12-07-15



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Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247 and RSS-247. The product is the ZPoint OEM Module. It is a transmitter that operates in the range of 2405MHz to 2475MHz.

We found that the product met the above requirements with modification (see *Modifications Required for Compliance* section on page 6). Simi Mitra from Temperature Alert was present during testing. The test sample was received in good condition.

Release Control Record

Issue No. Reason for change
1 Original Release

Date Issued
May 10, 2016



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Test Methodology

Radiated emissions testing was performed according to DTS guidance document 558074D01 v03r04 specified in FCC guidance for performing compliance measurements on DTS devices under section 15.247, April 19, 2013, and ANSI C63.10 (2013), and RSS-GEN. Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity.

Conducted emission at the antenna port was performed, as required by rule section.

The EUT operating voltage is 3V battery.

The environmental conditions are shown below.

Date	Temperature	Humidity
12/16/15	23	26
12/17/15	22	28
12/18/15	23	30

The following bandwidths were used during radiated spurious emissions.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz



Product Tested - Configuration Documentation

EUT Configuration											
Work Order:	P3237										
Company:	Schechter Tech LLC DBA Temperature Alert										
Company Address:	108 Lincoln Street, Suite BA										
	Boston, MA, 02111										
Contact:	Harry Schechter										
EUT:	MN TM-ZP050			PN			SN				
EUT Description:	ZPoint OEM Module						3 (EUT with trace antenna), 2 (EUT with external antenna)				
EUT Max Frequency:	2475 MHz										
EUT Min Frequency:	2405 MHz										
EUT ISM Frequency:											
EUT Components	MN						SN				
TM-ZP050 with trace antenna	TM-ZP050						3				
TM-ZP050 with external antenna	TM-ZP050						2				
External antenna	N/A						none				
External antenna (2nd one)	N/A						none				
Support Equipment	MN						SN				
Lenovo Laptop	Thinkpad										
Port Label	Port Type	# ports	# populated	cable type	shielded	ferrite s	length (m)	max length (m)	in/out	under test	comment
Comm used to configure radio	USB	2	0	USB	Yes	No	2	3	in	no	Setup only
DC Power	DC Power	1	1	2 wire-twisted pair	No	No	0.1	0.1	in	yes	
Software Operating Mode Description:											
NodeTest per customer supplied document "TempAlert OEM FCC Testing Instructions."											



Statement of Conformity

The ZPoint OEM Module has been found to conform to the following parts of 47 CFR and RSS 247 as detailed below:

RSS-GEN	RSP-100	RSS 247	Part 15	Comments
6.3			15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
	3.1		15.19	The label is shown in the label exhibit.
	3.2		15.21	Information to the user is shown in the instruction manual exhibit.
			15.27	No special accessories are required for compliance.
6.1, 6.5			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.
8.1			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.
8.3			15.203	The antenna for this device can be integrated with the PCB, or external. The external antenna gain is 2.45dBi. The PCB antenna gain is 1dBi
8.8			15.207	No AC Line conducted emissions testing was performed as the EUT is battery powered
8.10			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 or RSS-Gen as applicable
			15.247	The unit complies with the requirements of 15.247
		RSS 247		The unit complies with the requirements of RSS-247
6.6				Occupied Bandwidth measurements were made.

Modifications Required for Compliance

In order to pass the spurious emissions in restricted band criteria, the following modifications were made:

1. Limited transmitter duty cycle to 10% maximum.
2. Reduced output power to -1dBm for the EUT with the trace antenna.
3. Reduced output power to -2dBm for the EUT with the external antenna.



Test Results

Bandwidth

LIMIT

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

MEASUREMENTS / RESULTS

6dB Emission Bandwidth (Conducted) Table			Work Order: P3237			
Date: 18-Dec-15	Company: Temperature Alert		EUT Operating Voltage/Frequency: Battery			
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module -EUT with External antenna		Pressure: 997mBar			
Temp: 23°C	Humidity: 30%					
Frequency Range: 2405-2475MHz		EUT Max Freq: 2475MHz				
Notes: Transmitting with modulation at 10% Duty Cycle. Output power at -2.0 dBm						
Frequency (MHz)		6dB Bandwidth (kHz)		FCC Part 15.247 15.247(a) (2) Emission Bandwidth		
				Limit (kHz minimum)		
2475.0		1254.0		500.0		
2440.0		1208.0		500.0		
2405.0		1256.0		500.0		
				Pass		
				Pass		
				Pass		

Rev.12/14/2015

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
Meteorological Meters Weather Clock (Pressure Only) TH A#2081		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014

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



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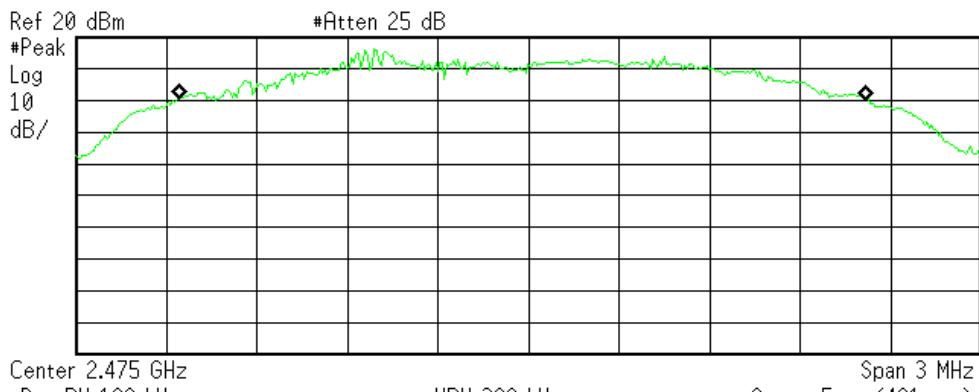
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PLOT

* Agilent 11:42:57 Dec 18, 2015

R T



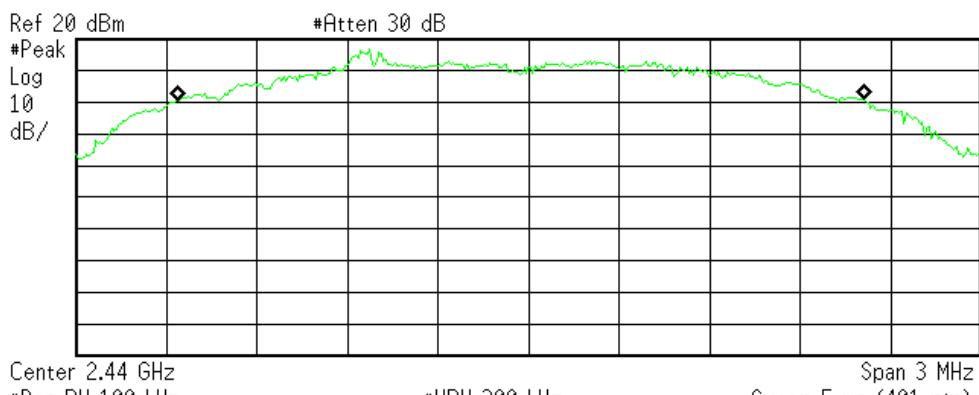
Transmit Freq Error -18.662 kHz
x dB Bandwidth 1.254 MHz

C:temp.gif file saved

6dB Bandwidth High Channel, Conducted Measurement

* Agilent 15:10:08 Dec 18, 2015

R T



Transmit Freq Error -26.532 kHz
x dB Bandwidth 1.208 MHz

C:temp.gif file saved

6dB Bandwidth Middle Channel, Conducted Measurement



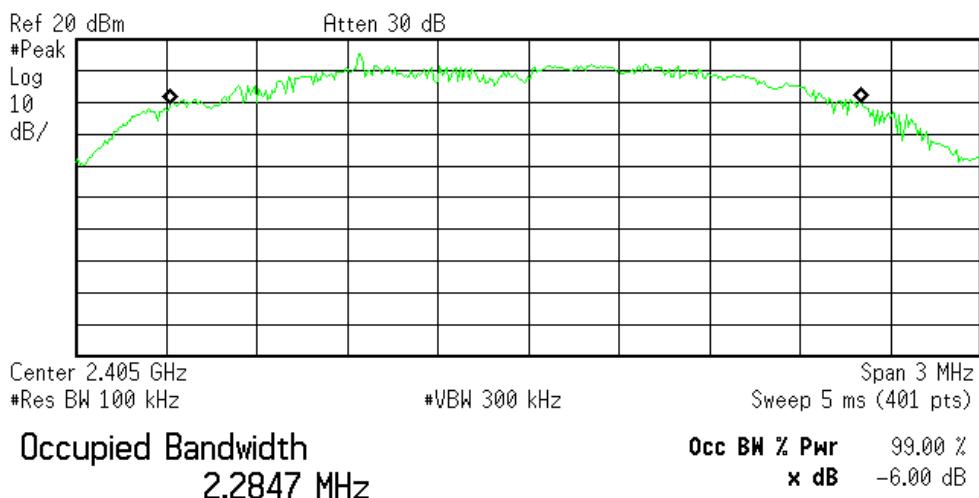
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Agilent 14:39:15 Dec 18, 2015

R T



Transmit Freq Error -41.196 kHz
x dB Bandwidth 1.256 MHz

C:\temp.gif file saved

6dB Bandwidth Low Channel, Conducted Measurement



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Peak Power

LIMIT

Conducted Output Power

1 Watt

[15.247(b) (3)]

Radiated Output Power

1W (EIRP) = 30dBm = 125.2dB μ V/m @ 3m

[15.247(b) (3)]

MEASUREMENTS / RESULTS

Conducted Output Power Table

Date: 02-Feb-16	Company: Temperature Alert	Work Order: P3237				
Engineer: Chris Reynolds	EUT Desc: Zpoint OEM Module	EUT Operating Voltage/Frequency: 3V				
Temp: 24°C	Humidity: 30%	Pressure: 1015mB				
Frequency Range: Fundamental						
Notes: Output power at -1 dBm. Measured per DTS Meas Guidance V03r04 Section 9.1.1						
Frequency (MHz)	Measured Reading (dBm)	Attenuation (dB)	Adjusted Conducted Output Power (dBm)	FCC Part 15.247 b 3. Conducted Output Power		
				Limit (dBm)	Margin (dB)	Result (Pass/Fail)
2405	-3.0	19.9	16.9	30.0	-13.1	Pass
2440	-2.7	19.9	17.2	30.0	-12.8	Pass
2475	-2.9	19.9	17.0	30.0	-13.0	Pass
Table Result: Pass by -12.8 dB				Worst Freq: 2440.0 MHz		

Rev. 2/1/2016

Spectrum Analyzers / Receivers /Preselectors MXE EMI Receiver	Range 20Hz-8.4GHz	MN N9038A	Mfr Agilent	SN MY53290009	Asset 1168255	Cat I	Calibration Due 6/16/2016	Calibrated on 6/16/2015
Conducted Test Sites (Mains / Telco) CEMI 2	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2079		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2079	Asset 1	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014 4/2/2015
Preamps /Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasterнак	SN 1	Asset 791	Cat II	Calibration Due 7/31/2016	Calibrated on 7/31/2015

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

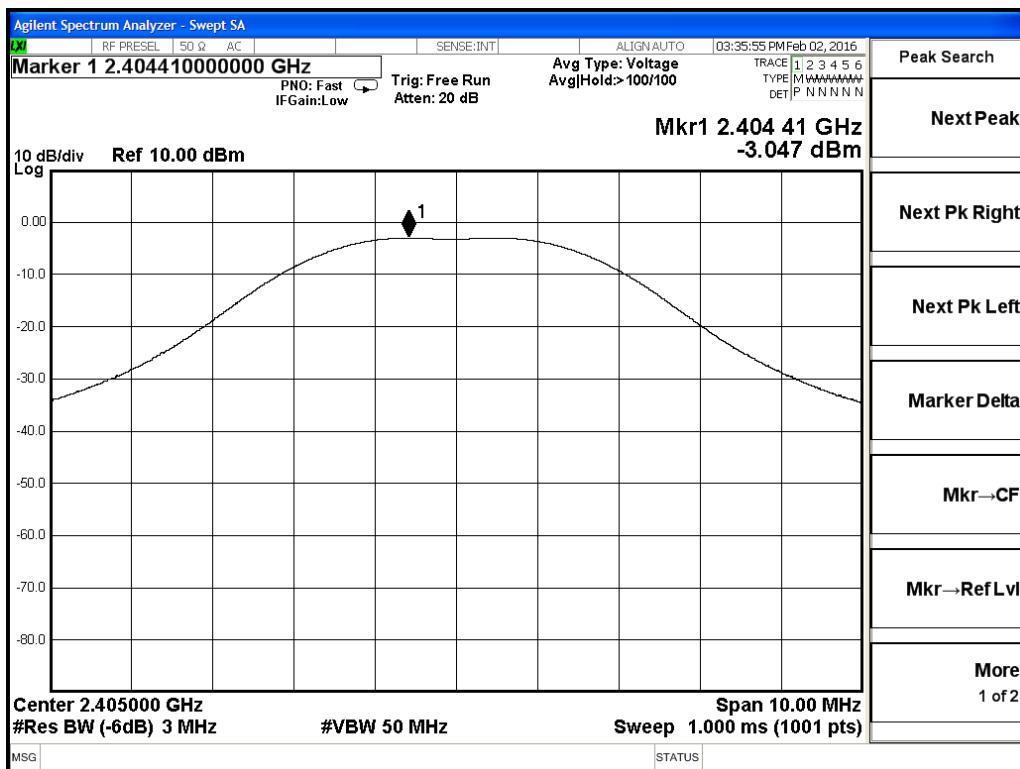


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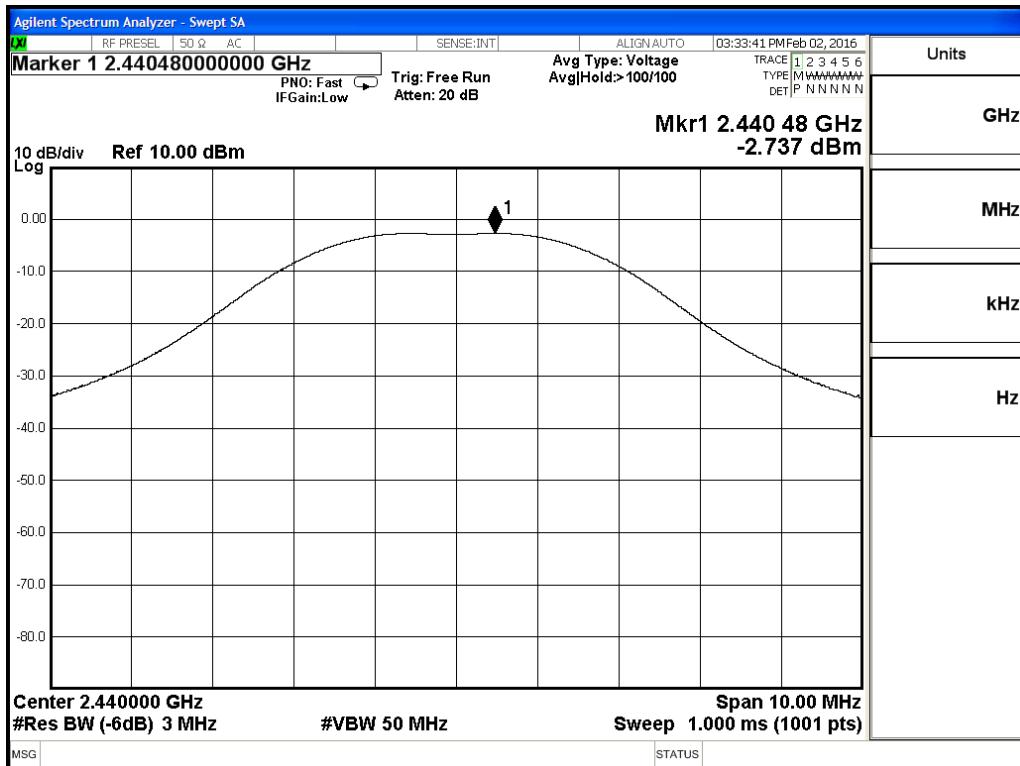


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Low Channel – with a -1dBm setting

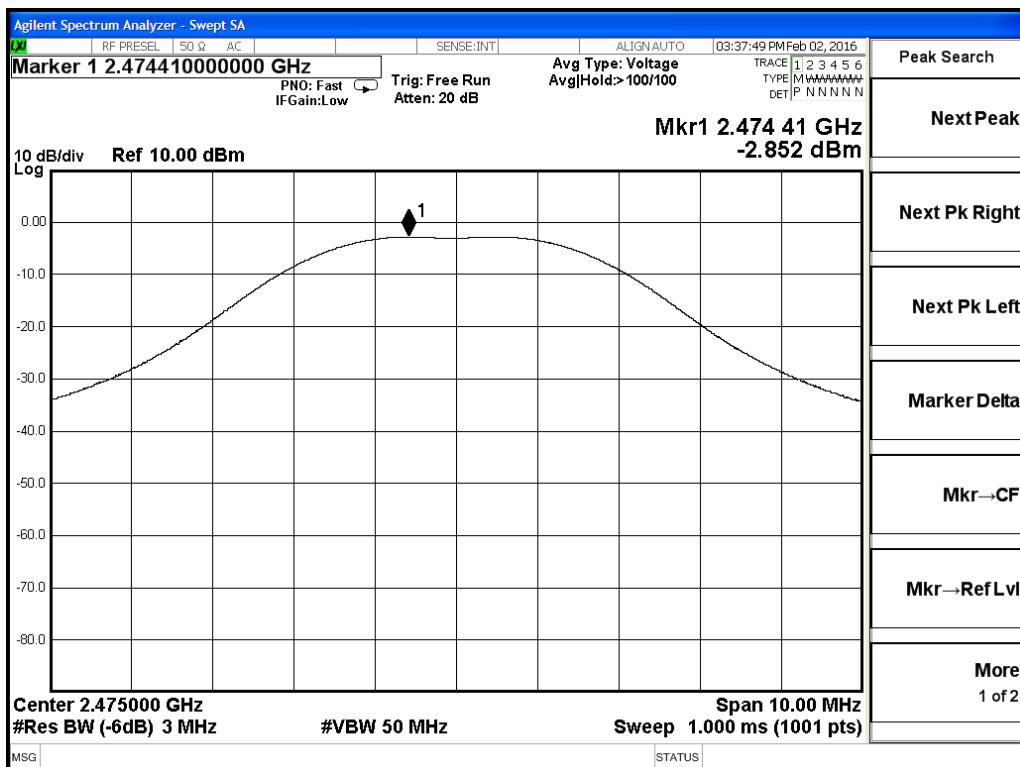


Mid Channel – with a -1dBm setting



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High Channel – with a -1dBm setting



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Band Edge Measurements

LIMITS

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

Band Edge Radiated Emissions Table

Date: 17-Dec-15			Company: Temperature Alert			Work Order: P3237								
Engineer: Jason Haley			EUT Desc: Zpoint OEM Module -EUT with external antenna			EUT Operating Voltage/Frequency: Battery								
Temp: 22°C			Humidity: 28%			Pressure: 1010mBar								
Frequency Range: Bandedge						Measurement Distance: 3 m								
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -2.0 dBm. Y-axis. * Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.						EUT Max Freq: 2475MHz								
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _u V)	Average Reading (dB _u V)	Preamp Factor (dB)	Antenna Factor (dB)	Cable Factor (dB)	Adjusted Peak Reading (dB _u V/m)	Adjusted Avg Reading (dB _u V/m)	FCC Part 15.247 High Frequency - Peak	FCC Part 15.247 High Frequency - Average				
									Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)
H	2483.5	51.0	31.0	20.2	32.4	3.3	66.5	46.5	74.0	-7.5	Pass	54.0	-7.5	Pass
H	2485	47.0	27.0	20.2	32.4	3.3	62.5	42.5	74.0	-11.5	Pass	54.0	-11.5	Pass
V	2483.5	49.1	29.1	20.2	32.4	3.3	64.6	44.6	74.0	-9.4	Pass	54.0	-9.4	Pass
V	2485	46.9	26.9	20.2	32.4	3.3	62.4	42.4	74.0	-11.6	Pass	54.0	-11.6	Pass
V	2395.0	44.2	24.2	19.9	32.3	3.3	59.9	39.9	74.0	-14.1	Pass	54.0	-14.1	Pass
V	2400.0	55.5	35.5	19.9	32.3	3.3	71.2	51.2	74.0	-2.8	Pass	54.0	-2.8	Pass
H	2395.0	44.55	24.6	19.9	32.3	3.3	60.3	40.3	74.0	-13.7	Pass	54.0	-13.7	Pass
H	2400.0	55.0	35.0	19.9	32.3	3.3	70.7	50.7	74.0	-3.3	Pass	54.0	-3.3	Pass
Table Result:		Pass	by	-2.8 dB			Worst Freq: 2400.0 MHz							
Test Site: EMI Chamber 2		Cable 1: Asset #2052		Cable 2: Asset #2053		Cable 3: ...		Antenna: Blue Horn			Preselector: ...			
Analyzer: Gold		Preamp: Asset #1517		Antenna: Blue Horn		Preselector: ...		Copyright Curtis-Straus LLC 2000						
CSsoft Radiated Emissions Calculator v 1.017,148		Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												

Rev. 12/14/2015

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	EMI Chamber 2	FCC Code	719150	IC Code	2762A-7	VCCI Code	Range	Calibration Due	Calibrated on
					A-0015		30-1000MHz		
Preamps /Couplers Attenuators / Filters	1517 HF Preamp	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
		1-20GHz	CS	CS	N/A	1517	II	8/6/2016	8/6/2015
Antennas	Blue Horn	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
		1-18Ghz	3117	ETS	157647	1861	I	2/8/2017	2/8/2015
Cables	Asset #2052	Range	Mfr				Cat	Calibration Due	Calibrated on
	Asset #2053	9kHz - 18GHz	Florida RF				II	3/8/2016	3/8/2015
		9kHz - 18GHz	Florida RF				II	3/8/2016	3/8/2015
Meteorological Meters	Weather Clock (Pressure Only)	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on	
	TH A#2081	BA928	Oregon Scientific	C3166-1	831	I	3/19/2016	3/19/2014	
		HTC-1	HDE		2081	II	4/2/2016		

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Band Edge Radiated Emissions Table

Date: 17-Dec-15	Company: Temperature Alert	Work Order: P3237												
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module -EUT with trace antenna	EUT Operating Voltage/Frequency: Battery												
Temp: 22°C	Humidity: 28%	Pressure: 1010mBar												
Frequency Range: Bandedge		Measurement Distance: 3 m												
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -1.0 dBm. X-axis.		EUT Max Freq: 2475MHz												
* Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.														
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _u V)	Average Reading (dB _u V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _u V/m)	Adjusted Avg Reading (dB _u V/m)	FCC Part 15.247 High Frequency - Peak			FCC Part 15.247 High Frequency - Average		
									Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)
H	2483.5	55.76	35.8	20.2	32.4	3.3	71.3	51.3	74.0	-2.7	Pass	54.0	-2.7	Pass
H	2485.0	53.64	33.6	20.2	32.4	3.3	69.1	49.1	74.0	-4.9	Pass	54.0	-4.9	Pass
V	2483.5	52.48	32.5	20.2	32.4	3.3	68.0	48.0	74.0	-6.0	Pass	54.0	-6.0	Pass
V	2485.0	51.49	31.5	20.2	32.4	3.3	67.0	47.0	74.0	-7.0	Pass	54.0	-7.0	Pass
V	2395.0	51.92	31.9	19.9	32.3	3.3	67.6	47.6	74.0	-6.4	Pass	54.0	-6.4	Pass
V	2400.0	57.38	37.4	19.9	32.3	3.3	73.1	53.1	74.0	-0.9	Pass	54.0	-0.9	Pass
H	2400.0	57.29	37.3	19.9	32.3	3.3	73.0	53.0	74.0	-1.0	Pass	54.0	-1.0	Pass
H	2395.0	51.24	31.2	19.9	32.3	3.3	66.9	46.9	74.0	-7.1	Pass	54.0	-7.1	Pass
Table Result: Pass		by	-0.9 dB							Worst Freq: 2400.0 MHz				
Test Site: EMI Chamber 2	Cable 1: Asset #2052			Cable 2: Asset #2053			Cable 3: ---			Antenna: Blue Horn	Preselector: ---			
Analyzer: Gold	Preamp: Asset #1517			Antenna: Blue Horn			Copyright Curtis-Straus LLC 2000							
CSsoft Radiated Emissions Calculator v 1.017.148 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor														

Rev. 12/14/2015

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 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
1517 HF Preamp	1-20GHz	CS	CS	N/A	1517	II	8/6/2016	8/6/2015
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Blue Horn	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 #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#2081	HTC-1	HDE		2081	II	4/2/2016		

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Testing Cert. No. 1627-01

Duty Cycle Correction Calculation

MEASUREMENTS / CALCULATIONS

Duty Cycle Correction Factor = $20 \cdot \log(0.925 \cdot 10 / 100) = -20.68 \text{ dB}$. Max is -20dB

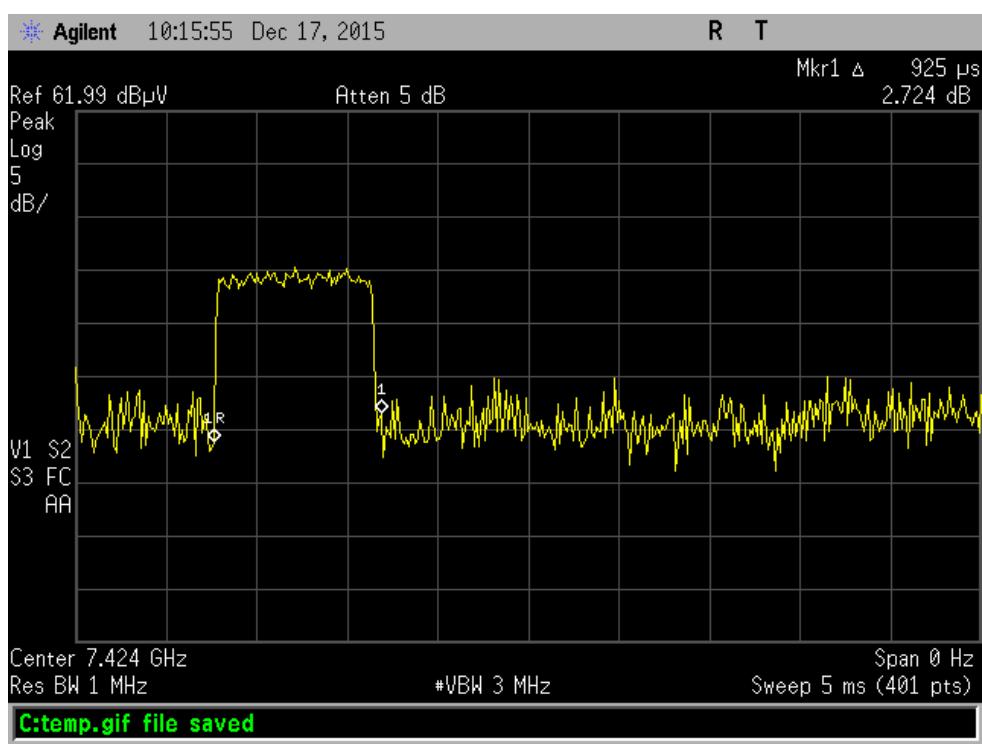
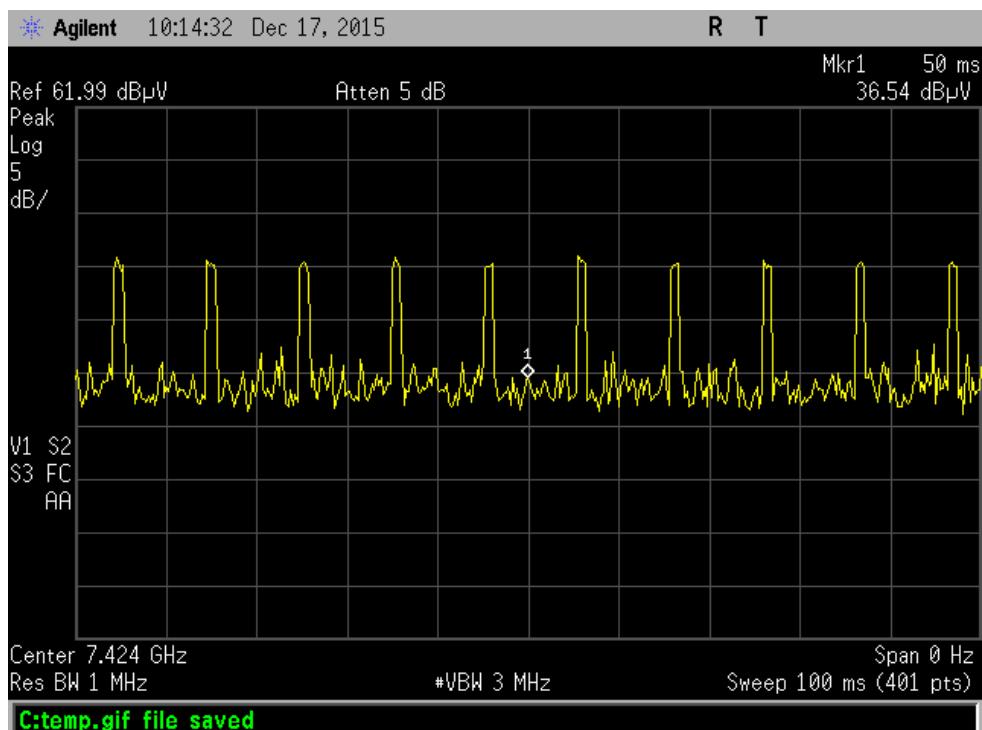


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PLOTS



Radiated Spurious Emissions

LIMITS

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)]

Note: Evaluation showed that the worst case orientation was the X-axis and the worst case channel was 2475MHz. Spurious emissions were taken with those settings.

MEASUREMENTS / RESULTS

Radiated Emissions Table															
Date: 17-Dec-15		Company: Temperature Alert					Work Order: P3237								
Engineer: Jason Haley		EUT Desc: Zpoint OEM Module -EUT with external antenna					EUT Operating Voltage/Frequency: Battery								
Temp: 22°C		Humidity: 28%					Pressure: 1010mBar								
Frequency Range: 30-1000MHz.						Measurement Distance: 3 m									
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -2.0 dBm. X-axis.						EUT Max Freq: 2475MHz									
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dB _u V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB _u V/m)	---			FCC Part 15.247					
							Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)			
Vertical peak	37.57905	37.6	25.3	15.7	0.4	28.4	---	---	---	40.0	-11.6	Pass			
Vertical peak	38.289586	34.0	25.3	15.1	0.4	24.2	---	---	---	40.0	-15.8	Pass			
Horizontal peak	150.25821	29.6	25.1	12.5	0.7	17.7	---	---	---	43.5	-25.8	Pass			
Horizontal peak	336.00415	29.3	25.3	14.0	1.1	19.1	---	---	---	46.0	-26.9	Pass			
Horizontal peak	384.024539	32.3	25.1	15.1	1.1	23.4	---	---	---	46.0	-22.6	Pass			
Horizontal peak	466.387498	31.6	25.6	17.3	1.4	24.7	---	---	---	46.0	-21.3	Pass			
Vertical peak	466.387498	34.2	25.6	17.3	1.4	27.3	---	---	---	46.0	-18.7	Pass			
Vertical peak	712.410572	34.7	25.1	20.4	1.8	31.8	---	---	---	46.0	-14.2	Pass			
Horizontal peak	819.227811	32.3	25.4	21.7	1.7	30.3	---	---	---	46.0	-15.7	Pass			
Vertical peak	820.885728	34.3	25.4	21.7	1.7	32.3	---	---	---	46.0	-13.7	Pass			
Vertical peak	822.010743	33.6	25.5	21.7	1.7	31.5	---	---	---	46.0	-14.5	Pass			
Table Result: Pass by -11.6 dB						Worst Freq: 37.57905 MHz									
Test Site: EMI Chamber 2			Cable 1: Asset #2052			Cable 2: Asset #2053			Cable 3: ---						
Analyzer: Gold			Preamp: Blue-Blk			Antenna: Red-Brown			Preselector: ---						
CSsoft Radiated Emissions Calculator v 1.017.148						Copyright Curtis-Straus LLC 2000									
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															

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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	EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015	
Preamps /Couplers Attenuators / Filters	Blue-Black	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 800	Cat II	Calibration Due 12/26/2015	Calibrated on 12/26/2014	
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 #2052	Range 9kHz - 18GHz	Mfr Florida RF				Cat II	Calibration Due 3/8/2016	Calibrated on 3/8/2015	
	Asset #2053	9kHz - 18GHz	Florida RF				II	3/8/2016	3/8/2015	
Meteorological Meters	Weather Clock (Pressure Only)	MN BA928	Mfr Oregon Scientific	SN C3166-1	Asset 831	Cat I	Calibration Due 3/19/2016	Calibrated on 3/19/2014		
	TH A#2081	HTC-1	HDE		2081	II	4/2/2016			

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Radiated Emissions Table

Date: 17-Dec-15	Company: Temperature Alert	Work Order: P3237													
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module -EUT with external antenna	EUT Operating Voltage/Frequency: Battery													
Temp: 22°C	Humidity: 28%	Pressure: 1010mBar													
Frequency Range: 1-6GHz		Measurement Distance: 3 m													
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -2.0 dBm. Y-axis. Using High Pass Filter 1311		EUT Max Freq: 2475MHz													
* Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor	Antenna Factor (dB)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Part 15.247 High Frequency - Peak			FCC Part 15.247 High Frequency - Average			
V	4950.0	41.58	21.6	17.9	34.4	4.8	62.9	42.9	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	
H	4950.0	45.32	25.3	17.9	34.4	4.8	66.6	46.6	74.0	-11.1	Pass	54.0	-11.1	Pass	
Table Result: Pass		by -7.4 dB			Worst Freq: 4950.0 MHz										
Test Site: EMI Chamber 2	Cable 1: Asset #2052		Cable 2: Asset #2053		Cable 3: ---		Analyzer: Gold	Preamp: Asset #1517	Antenna: Blue Horn		Preselector: ---		Copyright Curtis-Straus LLC 2000		
CSsoft Radiated Emission Calculator v 1.017.148															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															

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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 EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps /Couplers Attenuators / Filters 1517 HF Preamp High Pass Filter	Range 1-20GHz 0.03-14.5 GHz	MN CS 10-3000/T90	Mfr CS K&L	SN N/A 1517 1	Asset 1311	Cat II	Calibration Due 8/6/2016 1/13/2016	Calibrated on 8/6/2015 1/13/2015
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Cables Asset #2052 Asset #2053	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr 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#2081	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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Radiated Emissions Table

Date: 17-Dec-15	Company: Temperature Alert	Work Order: P3237													
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module -EUT with external antenna	EUT Operating Voltage/Frequency: Battery													
Temp: 22°C	Humidity: 28%	Pressure: 1010mBar													
Frequency Range: 6-18GHz		Measurement Distance: 1 m													
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -2.0 dBm. Y-axis. Using High Pass Filter 1311		EUT Max Freq: 2475MHz													
* Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Part 15.247 High Frequency - Peak			FCC Part 15.247 High Frequency - Average			
V	7425.0	50.0	30.0	17.2	36.0	5.7	74.5	54.5	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	V	63.5	-9.0	Pass
H	7425.0	50.7	30.7	17.2	36.0	5.7	75.2	55.2	83.5	-8.3	Pass	H	63.5	-8.3	Pass
Table Result: Pass		by -8.3 dB			Worst Freq: 7425.0 MHz										
Test Site: EMI Chamber 2		Cable 1: Asset #2052		Cable 2: Asset #2053		Cable 3: ---		Antenna: Blue Horn		Preselector: ---					
Analyzer: Gold		Preamp: Asset #1517												Copyright Curtis-Straus LLC 2000	
CSSsoft Radiated Emission Calculator v1.017.148															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															

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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 EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps /Couplers Attenuators / Filters 1517 HF Preamp High Pass Filter	Range 1-20GHz 0.03-14.5 GHz	MN CS 10-3000/T90I	Mfr CS K&L	SN N/A 1	Asset 1517 1311	Cat II II	Calibration Due 8/6/2016 1/13/2016	Calibrated on 8/6/2015 1/13/2015
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Cables Asset #2052 Asset #2053	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II 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#2081	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 2081	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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Radiated Emissions Table

Date: 18-Dec-15	Company: Temperature Alert EUT Desc: Zpoint OEM Module -EUT with external antenna Temp: 23°C Humidity: 30%								Work Order: P3237 EUT Operating Voltage/Frequency: Battery Pressure: 997mBar					
Frequency Range: 18-25GHz									Measurement Distance: 0.1 m					
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -2.0 dBm. Y-axis. Using High Pass Filter 1311								EUT Max Freq: 2475 MHz						
* Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.														
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB)	Preamp Factor	Antenna Factor (dB)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Class B High Frequency - Peak		FCC Class B High Frequency - Average			
V	19800.0	52.4	32.4	41.1	40.3	5.9	57.5	37.5	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)			
V	24136.0	47.6	27.6	41.1	40.3	6.9	53.7	33.7	103.5	-46.0	Pass			
H	24750.0	61.0	41.0	40.8	40.2	7.1	67.5	47.5	103.5	-49.8	Pass			
Table Result:		Pass	by	-36.0 dB				Worst Freq: 24750.0 MHz						
Test Site: EMI Chamber 2 Analyzer: Gold			Cable 1: EMIR-HIGH-07 Preamp: 18-26.5GHz			Cable 2: ---			Cable 3: ---					
CSsoft Radiated Emissions Calculator v 1.017.148			Antenna: 18-26.5GHz Horn			Preselector: ---			Copyright Curtis-Straus LLC 2000					
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor														

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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 EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps/Couplers Attenuators / Filters HF (Yellow)	Range 18-26.5GHz	MN AFS4-18002650-60-8P-4	Mfr CS	SN 467559	Asset 1266	Cat II	Calibration Due 3/13/2016	Calibrated on 3/13/2015
Antennas HF (White) Horn	Range 18-26.5GHz	MN 801-WLM	Mfr Waveline	SN 758	Asset 758	Cat III	Calibration Due Verify before Use	Calibrated on date of test
Cables REMI-High-07	Range 1 - 26.5GHz	MN TRU-21B0707-120	Mfr TRU			Cat II	Calibration Due 8/7/2016	Calibrated on 8/7/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2081	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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Radiated Emissions Table

Date: 17-Dec-15	Company: Temperature Alert	Work Order: P3237										
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module -EUT with trace antenna	EUT Operating Voltage/Frequency: Battery										
Temp: 22°C	Humidity: 28%	Pressure: 1010mBar										
Frequency Range: 30-1000MHz		Measurement Distance: 3 m										
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -1.0 dBm. X-axis.		EUT Max Freq: 2475MHz										
Antenna Polarization (H/V)	Frequency (MHz)	Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB μ V/m)	—			FCC Part 15.247		
							Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)
Vertical, Peak	37.57905	34.8	25.3	15.7	0.4	25.6	---	---	---	40.0	-14.4	Pass
Vertical, Peak	44.743621	35.2	25.3	10.6	0.4	20.9	---	---	---	40.0	-19.1	Pass
Vertical, Peak	45.454157	35.0	25.3	10.2	0.4	20.3	---	---	---	40.0	-19.7	Pass
Vertical, Peak	47.82261	34.5	25.4	9.1	0.4	18.6	---	---	---	40.0	-21.4	Pass
Horizontal, Peak	52.026614	31.8	25.4	7.7	0.4	14.5	---	---	---	40.0	-25.5	Pass
Vertical, Peak	154.521425	34.5	25.1	12.4	0.8	22.6	---	---	---	43.5	-20.9	Pass
Horizontal, Peak	384.024539	37.1	25.1	15.1	1.1	28.2	---	---	---	46.0	-17.8	Pass
Vertical, Peak	699.502502	30.5	25.2	20.3	1.8	27.4	---	---	---	46.0	-18.6	Pass
Vertical, Peak	819.227811	29.9	25.4	21.7	1.7	27.9	---	---	---	46.0	-18.1	Pass
Horizontal, Peak	823.550238	35.3	25.5	21.7	1.7	33.2	---	---	---	46.0	-12.8	Pass
Horizontal, Peak	845.754486	34.8	25.6	21.8	1.8	32.8	---	---	---	46.0	-13.2	Pass
Table Result: Pass		by	-12.8 dB				Worst Freq: 823.55 MHz					
Test Site: EMI Chamber 2 Analyzer: Gold CSsoft Radiated Emissions Calculator v 1.017.148	Cable 1: Asset #2052 Preamp: Blue-Blk		Cable 2: Asset #2053 Antenna: Red-Brown		Cable 3: --- Preselector: ---		Copyright Curtis-Straus LLC 2000					
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												

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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 EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps /Couplers Attenuators / Filters Blue-Black	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 800	Cat II	Calibration Due 12/26/2015	Calibrated on 12/26/2014
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 #2052 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
Meteorological Meters Weather Clock (Pressure Only) TH A#2081	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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Radiated Emissions Table

Date: 17-Dec-15	Company: Temperature Alert	Work Order: P3237													
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module -EUT with trace antenna	EUT Operating Voltage/Frequency: Battery													
Temp: 22°C	Humidity: 28%	Pressure: 1010mBar													
Frequency Range: 1-6GHz		Measurement Distance: 3 m													
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -1.0 dBm. X-axis. Using High Pass Filter 1311		EUT Max Freq: 2475MHz													
* Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Part 15.247 High Frequency - Peak			FCC Part 15.247 High Frequency - Average			
V	4950.0	43.05	23.1	17.9	34.4	4.8	64.4	44.4	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	V	54.0	-9.6	Pass
H	4950.0	43.73	23.7	17.9	34.4	4.8	65.0	45.0	74.0	-9.0	Pass	V	54.0	-9.0	Pass
Table Result: Pass		by	-9.0 dB							Worst Freq: 4950.0 MHz					
Test Site: EMI Chamber 2		Cable 1: Asset #2052		Cable 2: Asset #2053		Cable 3: ---		Antenna: Blue Horn		Preselector: ---					
Analyzer: Gold		Preamp: Asset #1517		Copyright Curtis-Straus LLC 2000											
CSSsoft Radiated Emission Calculator v1.017.148															
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor															

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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 EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps /Couplers Attenuators / Filters 1517 HF Preamp High Pass Filter	Range 1-20GHz 0.03-14.5 GHz	MN CS 10-3000/T90I	Mfr CS K&L	SN N/A 1	Asset 1517 1311	Cat II II	Calibration Due 8/6/2016 1/13/2016	Calibrated on 8/6/2015 1/13/2015
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Cables Asset #2052 Asset #2053	Range 9kHz - 18GHz 9kHz - 18GHz		Mfr Florida RF Florida RF			Cat II 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#2081	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 2081	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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Radiated Emissions Table

Date: 17-Dec-15 Engineer: Jason Haley Temp: 22°C		Company: Temperature Alert EUT Desc: Zpoint OEM Module -EUT with trace antenna Humidity: 28% Pressure: 1010mBar								Work Order: P3237 EUT Operating Voltage/Frequency: Battery										
		Frequency Range: 6-18GHz								Measurement Distance: 1 m										
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -1.0 dBm. X-axis. Using High Pass Filter 1311 * Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.										EUT Max Freq: 2475MHz										
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Part 15.247 High Frequency - Peak		FCC Part 15.247 High Frequency - Average									
V	7425.0	55.11	35.1	17.2	36.0	5.7	79.6	59.6	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)						
H	7425.0	54.37	34.4	17.2	36.0	5.7	78.9	58.9	83.5	-3.9	Pass	63.5	-3.9	Pass						
V	9900.0	43.73	23.7	17.4	37.7	6.7	70.7	50.7	83.5	-4.6	Pass	63.5	-12.8	Pass						
Table Result:		Pass	by	-3.9	dB								Worst Freq:	7425.0 MHz						
Test Site: EMI Chamber 2 Analyzer: Gold CSsoft Radiated Emissions Calculator v 1.017.148			Cable 1: Asset #2052 Preamp: Asset #1517			Cable 2: Asset #2053 Antenna: Blue Horn			Cable 3: --- Preselector: ---			Copyright Curtis-Straus LLC 2000								

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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 EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps /Couplers Attenuators / Filters 1517 HF Preamp High Pass Filter	Range 1-20GHz 0.03-14.5 GHz	MN CS 10-3000/T90I	Mfr CS K&L	SN N/A 1	Asset 1517 1311	Cat II	Calibration Due 8/6/2016 1/13/2016	Calibrated on 8/6/2015 1/13/2015
Antennas Blue Horn	Range 1-18Ghz	MN 3117	Mfr ETS	SN 157647	Asset 1861	Cat I	Calibration Due 2/8/2017	Calibrated on 2/8/2015
Cables Asset #2052 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
Meteorological Meters Weather Clock (Pressure Only) TH A#2081	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 2081	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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Radiated Emissions Table

Date: 18-Dec-15 Engineer: Jason Haley Temp: 23°C		Company: Temperature Alert EUT Desc: Zpoint OEM Module -EUT with trace antenna Humidity: 30% Pressure: 997mBar								Work Order: P3237 EUT Operating Voltage/Frequency: Battery										
		Frequency Range: 18-25GHz								Measurement Distance: 0.1 m										
Notes: Transmitting 2475MHz modulated at 10% Duty Cycle. Output power at -1.0 dBm. Y-axis. Using High Pass Filter 1311 * Average Reading is the Peak Reading Minus the Duty Cycle Correction Factor of 20dB.										EUT Max Freq: 2475 MHz										
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB)	Preamp Factor	Antenna Factor (dB)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)	FCC Class B High Frequency - Peak		FCC Class B High Frequency - Average									
V	19800.0	57.39	37.4	41.1	40.3	5.9	62.5	42.5	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)						
H	22275.0	66.13	46.1	41.8	40.5	6.6	71.4	51.4	103.5	-41.0	Pass	83.5	-41.0	Pass						
V	24136.0	44.66	24.4	41.1	40.3	6.9	50.8	30.5	103.5	-32.1	Pass	83.5	-32.1	Pass						
H	24750.0	70.32	50.3	40.8	40.2	7.1	76.8	56.8	103.5	-52.7	Pass	83.5	-53.0	Pass						
Table Result: Pass by -26.7 dB				Worst Freq: 24750.0 MHz																
Test Site: EMI Chamber 2		Cable 1: EMIR-HIGH-07 Analyzer: Gold Preamp: 18-26.5GHz CSsoft Radiated Emissions Calculator v 1.017.148 Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor			Cable 2: --- Antenna: 18-26.5GHz Horn			Cable 3: --- Preselector: --- Copyright Curtis-Straus LLC 2000												

Rev.12/14/2015

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 EMI Chamber 2		FCC Code 719150	IC Code 2762A-7	VCCI Code A-0015	Range 30-1000MHz		Cat II	Calibration Due 3/22/2017	Calibrated on 3/22/2015
Preamps/Couplers Attenuators / Filters HF (Yellow)		Range 18-26.5GHz	MN AFS4-18002650-60-8P-4	Mfr CS	SN 467559	Asset 1266	Cat II	Calibration Due 3/13/2016	Calibrated on 3/13/2015
Antennas HF (White) Horn		Range 18-26.5GHz	MN 801-WLM	Mfr Waveline	SN 758	Asset 758	Cat III	Calibration Due Verify before Use	Calibrated on date of test
Cables REMI-High-07		Range 1 - 26.5GHz	MN TRU-21B0707-120	Mfr TRU			Cat II	Calibration Due 8/7/2016	Calibrated on 8/7/2015
Meteorological Meters Weather Clock (Pressure Only) TH A#2081		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 2081	Asset 831 2081	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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



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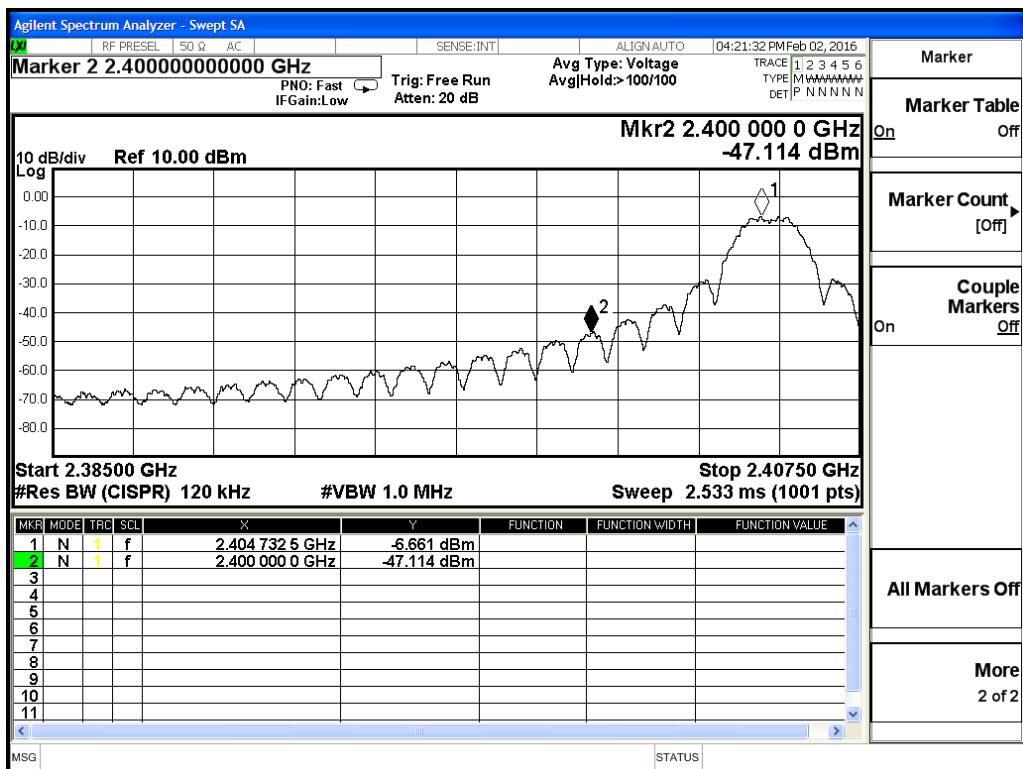
Conducted Spurious Emissions

LIMITS

In any 100kHz 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...

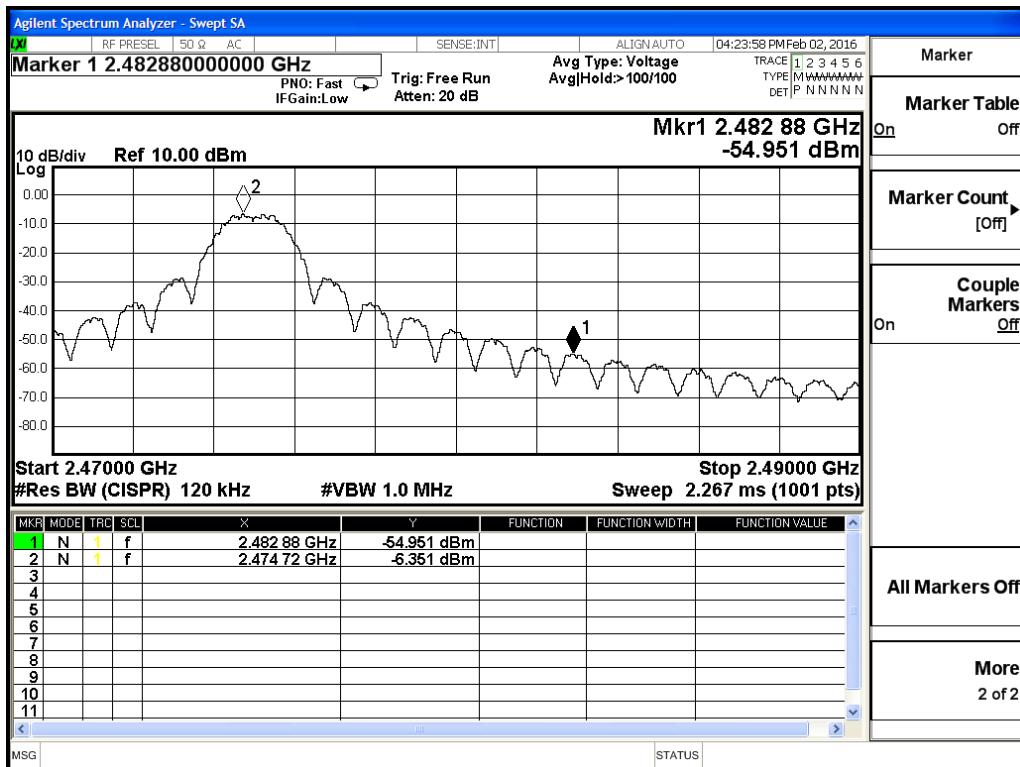
[15.247(d)]

Conducted BandEdge



Lower BandEdge with a -1 setting





Upper BandEdge with -1 setting

Rev. 2/1/2016

Spectrum Analyzers / Receivers /Preselectors MXE EMI Receiver	Range 20Hz-8.4GHz	MN N9038A	Mfr Agilent	SN MY53290009	Asset 1168255	Cat I	Calibration Due 6/16/2016	Calibrated on 6/16/2015
Conducted Test Sites (Mains / Telco) CEMI 2	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2079		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2079	Asset 1 791	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014 4/2/2015
Preamps /Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasternack	SN	Asset	Cat	Calibration Due 7/31/2016	Calibrated on 7/31/2015

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



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MEASUREMENTS / RESULTS

No emissions found within 20dB of the limit. The limit was set to 20dB below that of the 100kHz bandwidth that contains the highest level of desired power.

Conducted Spurious emissions

Date: 18-Dec-15	Company: Temperature Alert	Work Order: P3237					
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module	EUT Operating Voltage/Frequency: 3V					
Temp: 23°C	Humidity: 30%	Pressure: 997mB					
Frequency Range: 9kHz-25GHz							
Notes: Measured per DTS Meas Guidance V03r04 Section 10.2 *Noise Floor							
Notes:	Frequency (MHz)	Measured Reading (dBm)	Attenuation (dB)	Adjusted Conducted Peak PSD 100kHz (dBm)	FCC 15.247 Conducted Spurious -20dBc		
					Limit (dBm)	Margin (dB)	Result (Pass/Fail)
Worst Case PSD in 100kHz rbw	2440	-3.9	19.9	16.0	NA	NA	NA
Noise Floor	*2490	-54.86	19.9	-34.96	-4.0	-31.0	Pass

9kHz-10GHz frequency range was investigated for all 3 channels (low, middle and high) at the EUT antenna port. Except for the fundamental, all emissions were at instrument noise floor.

Rev.12/14/2015

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
Meteorological Meters								
Weather Clock (Pressure Only) TH A#2081	MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2081	Asset I II	Cat	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014	

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Power Spectral Density

LIMIT

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

MEASUREMENTS / RESULTS

Power Spectral Density - Conducted Table												
Date: 02-Feb-16	Company: Temperature Alert				Work Order: P3237							
Engineer: Chris Reynolds	EUT Desc: Zpoint OEM Module				EUT Operating Voltage/Frequency: 3V							
Temp: 24°C	Humidity: 30%				Pressure: 1015mB							
Frequency Range: Fundamental												
Notes: Output power at -1 dBm. Measured per DTS Meas Guidance V03r04 Section 10.2												
Frequency (MHz)	Measured Reading (dBm)	Attenuation (dB)	Adjusted Conducted		FCC Part 15.247 e							
			Peak PSD (dBm)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)						
2405	-18.9	19.9	0.9	8.0	-7.1	Pass						
2440	-18.7	19.9	1.2	8.0	-6.8	Pass						
2475	-18.7	19.9	1.2	8.0	-6.8	Pass						
Table Result:		Pass	by	-6.8 dB	Worst Freq:		2475.0 MHz					

Rev. 2/1/2016

Spectrum Analyzers / Receivers /Preselectors MXE EMI Receiver	Range 20Hz-8.4GHz	MN N9038A	Mfr Agilent	SN MY53290009	Asset 1168255	Cat I	Calibration Due 6/16/2016	Calibrated on 6/16/2015
Conducted Test Sites (Mains / Telco) CEMI 2	FCC Code 719150		VCCI Code A-0015			Cat III	Calibration Due NA	Calibrated on N/A
Meteorological Meters Weather Clock (Pressure Only) TH A#2079		MN BA928 HTC-1	Mfr Oregon Scientific HDE	SN C3166-1 831 2079	Asset 1	Cat I II	Calibration Due 3/19/2016 4/2/2016	Calibrated on 3/19/2014 4/2/2015
Preamps /Couplers Attenuators / Filters HF 20dB 50W Attenuator	Range 0.009-18 GHz	MN PE 7019-20	Mfr Pasternack	SN 1	Asset 791	Cat II	Calibration Due 7/31/2016	Calibrated on 7/31/2015

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



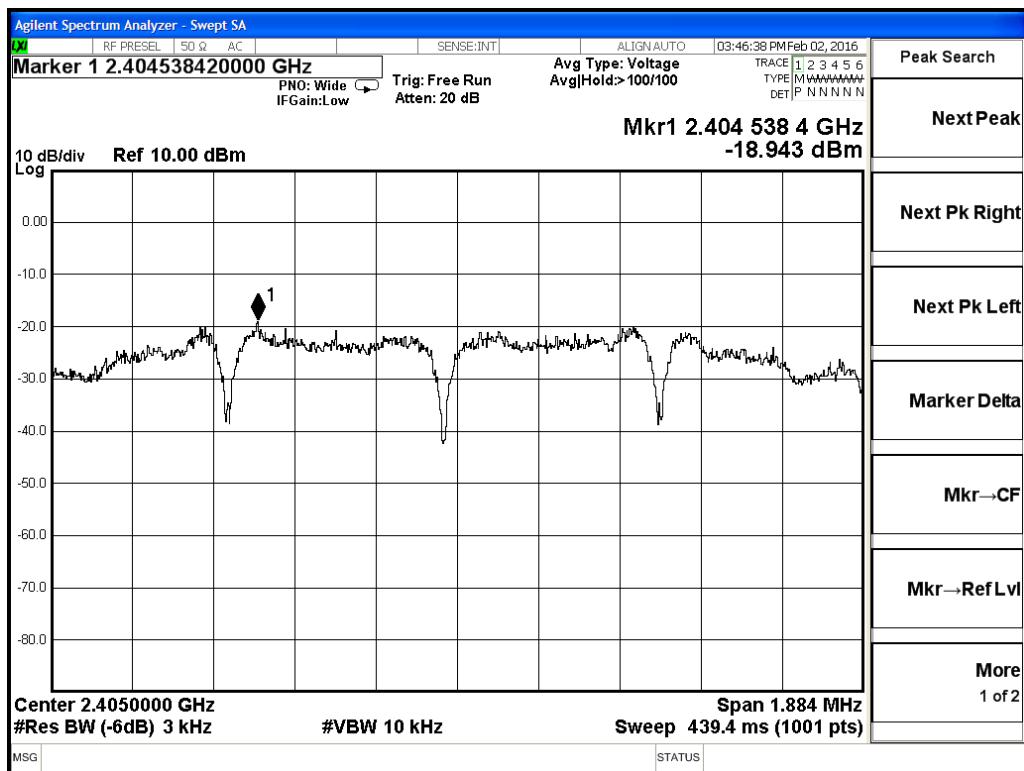
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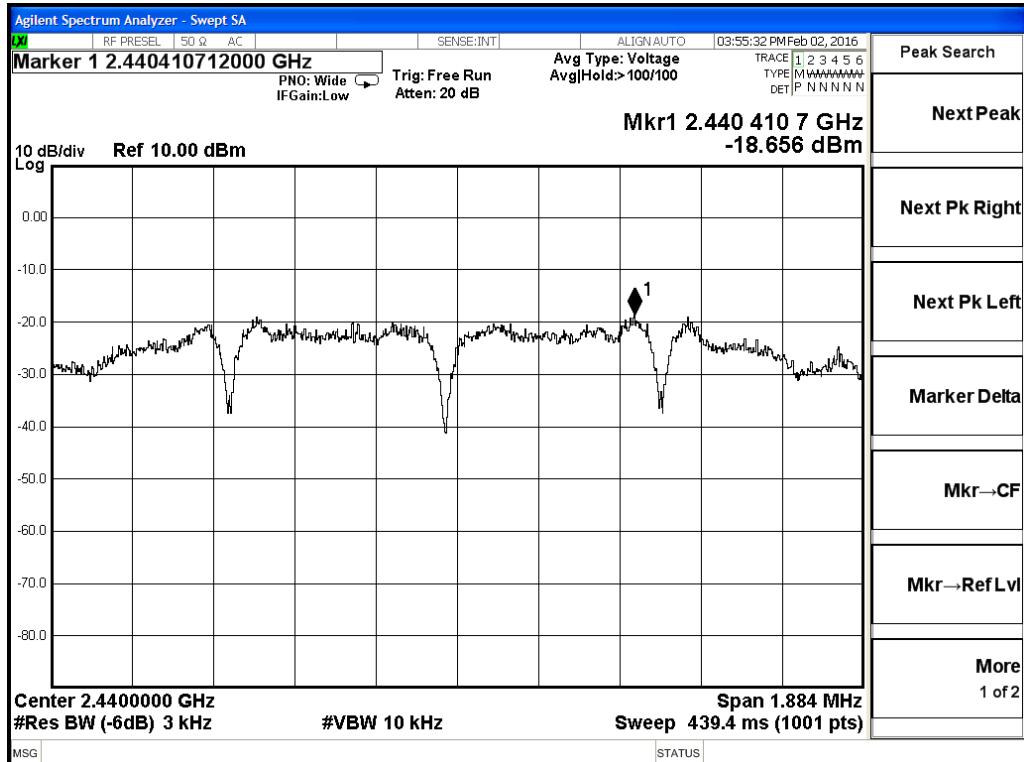
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PLOTS

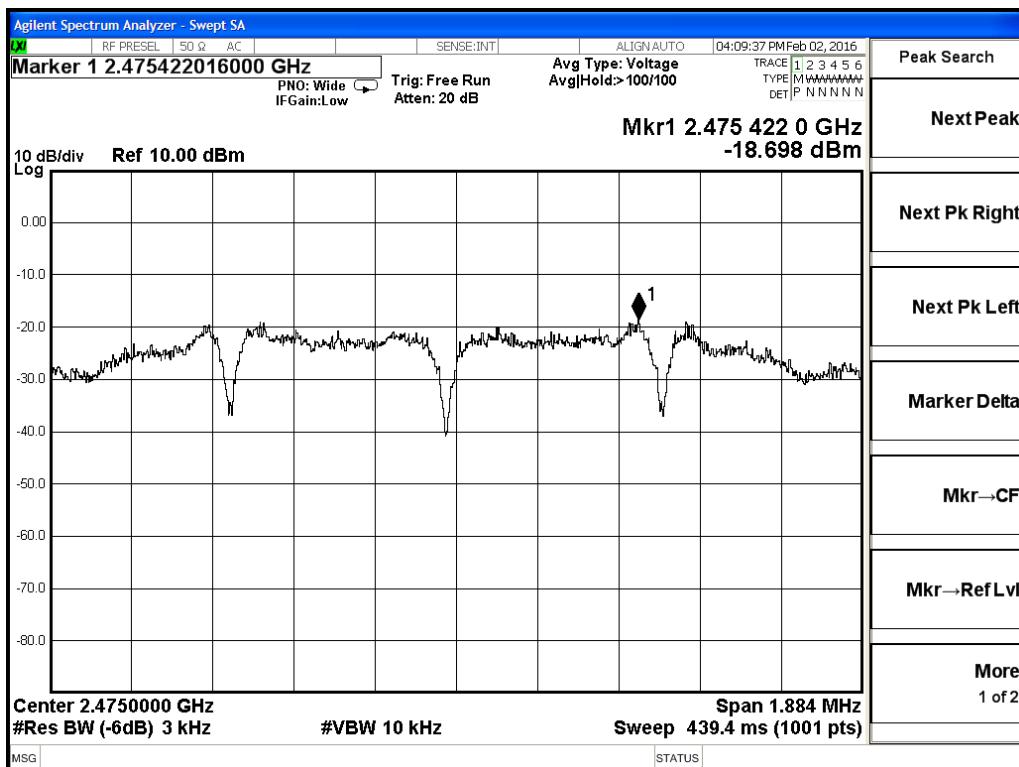


PSD, Low Channel, Conducted Measurement - with a -1dBm setting



PSD, Mid Channel, Conducted Measurement - with a -1dBm setting





PSD, High Channel, Conducted Measurement - with a -1dBm setting



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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 4.6.1]

MEASUREMENTS / RESULTS

RSS-GEN 4.6.1 Occupied Bandwidth (Conducted) Table

Date: 13-Jan-16	Company: Temperature Alert	Work Order: P3237																				
Engineer: Jason Haley	EUT Desc: Zpoint OEM Module -EUT with External antenna	EUT Operating Voltage/Frequency: Battery																				
Temp: 22.4°C	Humidity: 32%	Pressure: 997mBar																				
Frequency Range: 2405-2475MHz																						
Notes: Transmitting with modulation at 10% Duty Cycle. Output power at -2.0 dBm		EUT Max Freq: 2475MHz																				
<table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Resolution Bandwidth Setting (kHz)</th><th>Video Bandwidth Setting (kHz)</th><th>Frequency Span Setting (MHz)</th><th>Occupied Bandwidth (MHz)</th></tr> </thead> <tbody> <tr> <td>2475.0</td><td>100</td><td>300</td><td>5</td><td>2.384</td></tr> <tr> <td>2440.0</td><td>100</td><td>300</td><td>5</td><td>2.430</td></tr> <tr> <td>2405.0</td><td>100</td><td>300</td><td>5</td><td>2.447</td></tr> </tbody> </table>			Frequency (MHz)	Resolution Bandwidth Setting (kHz)	Video Bandwidth Setting (kHz)	Frequency Span Setting (MHz)	Occupied Bandwidth (MHz)	2475.0	100	300	5	2.384	2440.0	100	300	5	2.430	2405.0	100	300	5	2.447
Frequency (MHz)	Resolution Bandwidth Setting (kHz)	Video Bandwidth Setting (kHz)	Frequency Span Setting (MHz)	Occupied Bandwidth (MHz)																		
2475.0	100	300	5	2.384																		
2440.0	100	300	5	2.430																		
2405.0	100	300	5	2.447																		

Rev. 1/12/2016

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
MXE EMI Receiver	20Hz-8.4GHz	N9038A	Agilent	MY53290009	1168255	I	6/16/2016	6/16/2015

Preamps/Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
HF 20dB 50W Attenuator	0.009-18 GHz	PE 7019-20	Pasternack	1	791	II	7/31/2016	7/31/2015

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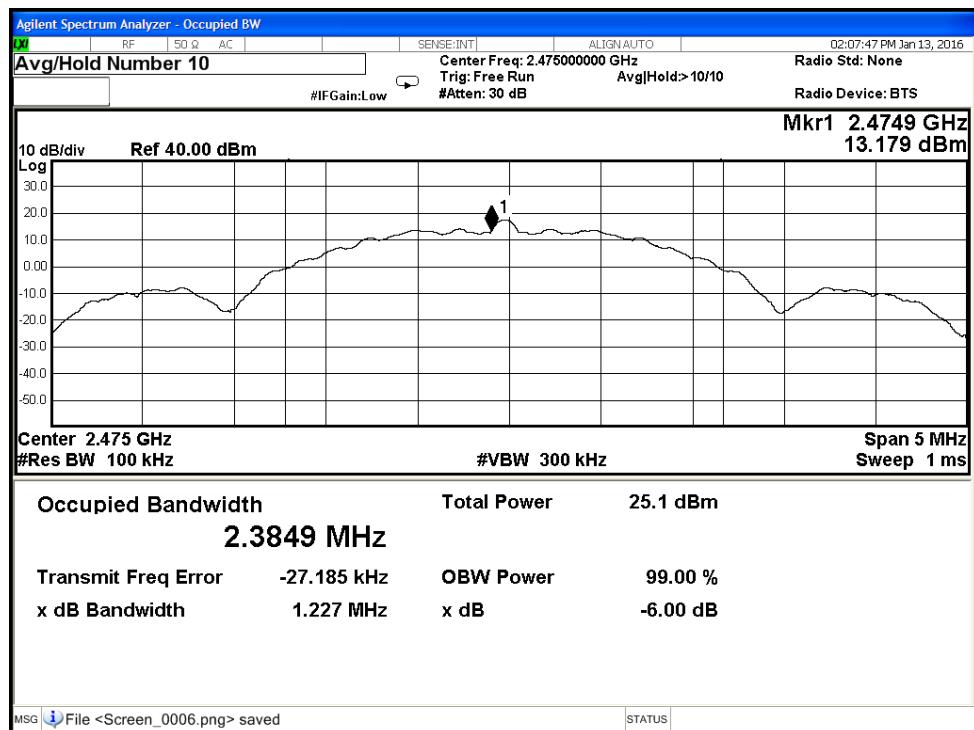
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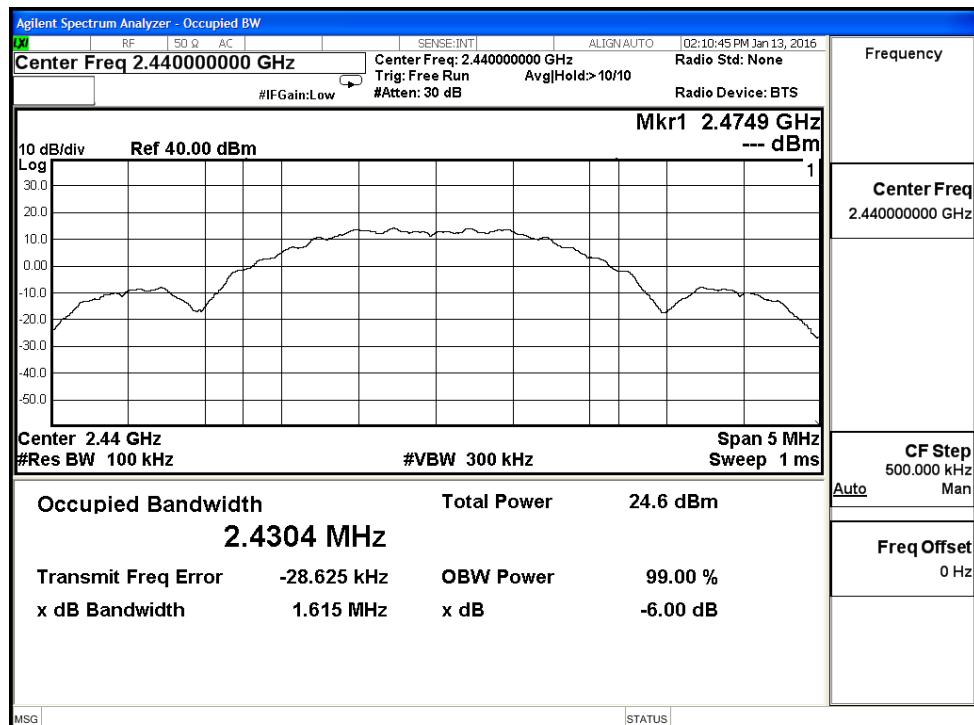
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PLOTS

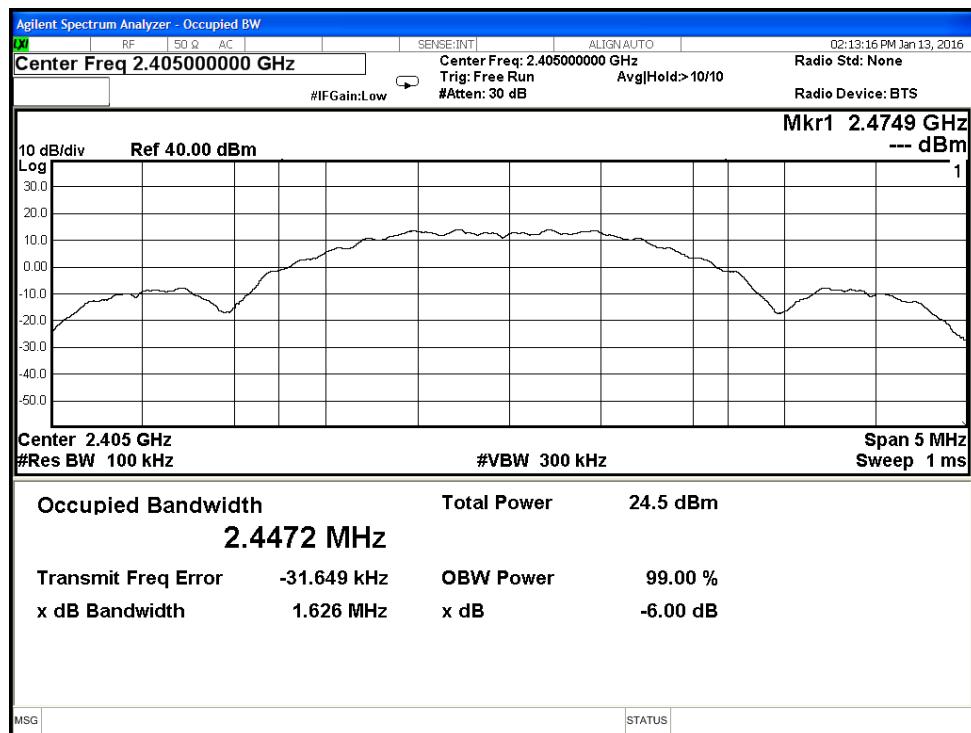


Occupied Bandwidth, High Channel, Conducted



Occupied Bandwidth, Mid Channel, Conducted





Occupied Bandwidth, Low Channel, Conducted



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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 (Ucispqr)
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	3.9dB	N/A
CISPR	3.6dB	3.6dB (Ucispqr)
Telco Conducted Emissions (Current)	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)	3.23×10^{-8}	1×10^{-7}
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation:		
• 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		



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 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.
3. 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.
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. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY 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 HEREUNDER.

(B) NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND INrecognition 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



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