





Test Report

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

Report No	EM1798-2
Client	Inncom
Address	277 West Main Street Niantic, CT 06357
Phone	860-739-4468
Items tested	E528.4G Thermostat
FCC ID	GTC202152TXR
IC ID	1609A-202152TXR
FRN	0017924150
Equipment Type	Digital Transmission System
Equipment Code	DXX
Emission Designator	2M41F7D
FCC/IC Rule Parts	47 CFR 15.249, RSS 210 issue 8 and RSS GEN issue 3
Test Dates	July 18, 19, 23 & 27, 2012, August 29, 2012 and November 16, 2012
Results	As detailed within this report
Prepared by	 Christopher Reynolds – Test Engineer
Authorized by	 Mairaj Hussain – EMC Supervisor
Issue Date	12/28/2012
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 22 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 supports an application for certification of a transmitter operating pursuant to 47 CFR 15.249 and RSS-210. The product is the 528.4G 20dB Thermostat. It is a transmitter that operates in the range 2400-2483.5MHz

We found that the product met the above requirements. The test sample was received in good condition.

Test Methodology

Radiated emission and AC Line conducted testing was performed according to the procedures specified in ANSI C63.4 (2003) 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. The device antenna cannot be maximized separately.

The EUT operating voltage is 120VAC/60Hz.

The environmental conditions are shown below.

The following bandwidths were used during radiated spurious and line conducted emissions.

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

Release Control Record

Issue No.	Reason for change	Date Issued
1	Original Release	February 21, 2013



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Product Tested - Configuration Documentation

EUT Configuration											
Work Order: M1798 Company: Inncom Company Address: 277 West Main Street Niantic, CT 06357 Contact: Ryan Gardner Person Present: Ryan Gardner											
EUT:		MN	PN	SN							
		01-9911-20dB	---	Sample 1							
EUT Description: Wireless Networking Thermostat EUT Max Frequency: 32MHz EUT Min Frequency: 8MHz EUT Tx Frequency: 2405-2480MHz											
Support Equipment:		MN	SN								
KDS Monitor		786N	FBUL41215569U								
Dell Keyboard		SK-8110	CN-07N242-71616-47L-0CK;								
Dell Mouse		M-S34	LNA10103513								
Dell PC		HFMJM51	CN-0C3152-70821-47K-5CFW								
B574 Network Controller		01-9437	B574P12RF0A0								
K595 Motion Detector		202-595	Sample 1								
EUT Ports:											
Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out NEBS Type	Unpopulated Reason	
H7	Auxiliary Power and Communication	1	1	3-wire	no	none	1m	10m	indoor		
H3	External Humidity Sensor	1	1	3-wire	no	none	1m	10m	indoor		
H6	Diagnostics	1	0							setup only	
H5	Legacy Port	1	0							not used in this configuration	
H4	DC Power	1	1	8 pin conductor	no	none	1"	1"	indoor		
H8	Motion Detector	1	1	3-wire	no	none	1"	1"	indoor		
H9	IR Sensor	1	0							not used in this configuration	
AC mains	AC mains	1	1	3-wire AC	no	none	1m	N/A	indoor		
H1	Serial	1	0							setup only	
Software / Operating Mode Description:											
EUT is wirelessly transmitting temperature readings.											
Performance Criteria:											
Regular mode: There shall be no loss of wireless transmission as indicated by the ZB link.											
Standby mode: EUT shall not be permitted to make any wireless transmissions.											



BUREAU
VERITAS

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Statement of Conformity

The E528.4G Thermostat has been found to conform to the following parts of 47 CFR and RSS 210 as detailed below:

RSS-GEN	RSS 210	Part 15	Comments
5.4		15.15(b)	There are no controls accessible to the user that vary the output power.
5.2		15.19	The label is shown in the label exhibit.
7.1.3		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
7.1.2		15.203	The antenna for this device is hardwired to the PCB.
7.2.4		15.207	AC conducted emissions were performed while EUT powered through AC power supply PS564.
	A2.9(a)	15.249(a)	The fundamental and harmonics meet the limits in 15.249(a)
	A2.9(b)	15.249(d)	Spurious emissions meet the limits in 15.209.
4.6.1			99% emissions bandwidth plot is provided.

Peak Power**LIMIT
LIMITS**

The field strength from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902 - 928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

[15.249(a)]

MEASUREMENTS / RESULTS

Peak Output Power													
Date: 19-Jul-12 Engineer: Matthew Burman Temp: 24.9°C			Company: Inncom EUT Desc: E528.4G 20dB Thermostat Humidity: 31%				Work Order: M1798 EUT Operating Voltage/Frequency: 120Vac 60Hz						
Pressure: 1010mBar													
Frequency Range: 2400-2483.5MHz							Measurement Distance: 3 m						
Notes: DCCF = -25.5dB							Radiated Measurements						
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)		Adjusted Reading (dBμV/m)				47 CFR §15.249		
											Limit (dBm)	Margin (dB)	Result (Pass/Fail)
Low Channel	2405.0	78.4	0.0	28.2	3.3		109.9				113.97	-4.0	Pass
Avg	2405.0	52.9	0.0	28.2	3.3		84.4				93.97	-9.5	
Mid Channel	2445.0	79.1	0.0	28.2	3.3		110.6				113.97	-3.3	Pass
Avg	2445.0	53.6	0.0	28.2	3.3		85.1				93.97	-8.8	
High Channel	2480.0	78.8	0.0	28.5	3.3		110.6				113.97	-3.3	Pass
Avg	2480.0	53.3	0.0	28.5	3.3		85.1				93.97	-8.8	
Table Result: Pass by -3.3 dB											Worst Freq: 2480.0 MHz		
Test Site: 1DCC-OATS-3M-I Analyzer: Rental SA#1				Cable 1: EMIR-HIGH-22 Preamp: none				Cable 2: --- Antenna: Black Horn			Cable 3: --- Preselector: ---		

Adjusted Reading = Reading + Ant Factor + Cable Factor

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Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Rental SA #1 (Brown)	9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	2/14/2013
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code			Cat	Calibration Due
1DCC-OATS-3M-I	719150	2762A-8	A-0015			II	8/7/2012
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Cables	Range		Mfr			Cat	Calibration Due
REMI-High-22	9kHz - 15GHz		C-S			II	1/31/2013
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	3/28/2013
1DCC-OATS-3M-I Thermohygrometer		35519-044	Control Company	72457635	1334	II	8/19/2013

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



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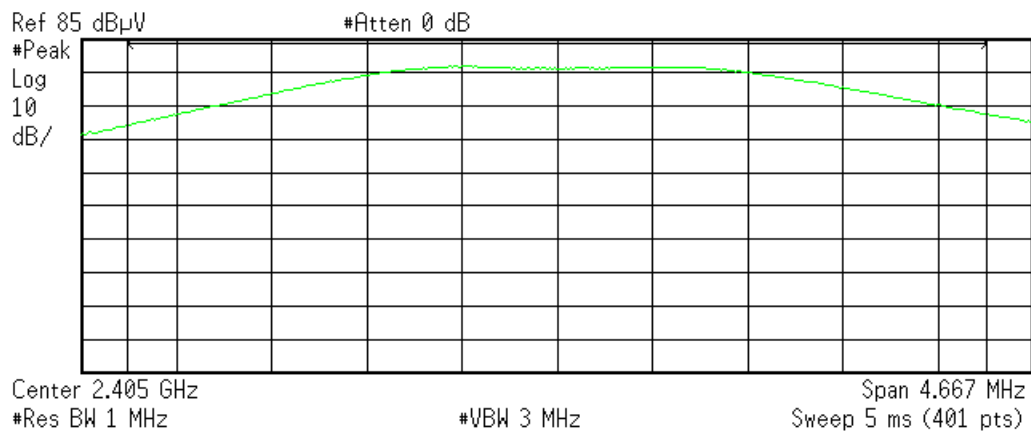


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PLOTS

Agilent 10:10:35 Jul 27, 2012

R T



Channel Power

78.44 dB μ V/4.2000 MHz

Power Spectral Density

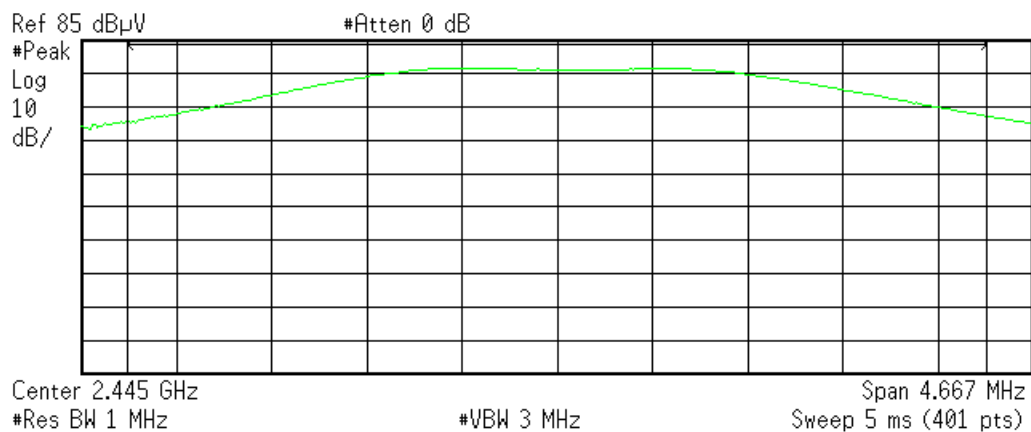
12.21 dB μ V/Hz

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Low Channel

Agilent 10:12:36 Jul 27, 2012

R T



Channel Power

79.12 dB μ V/4.2000 MHz

Power Spectral Density

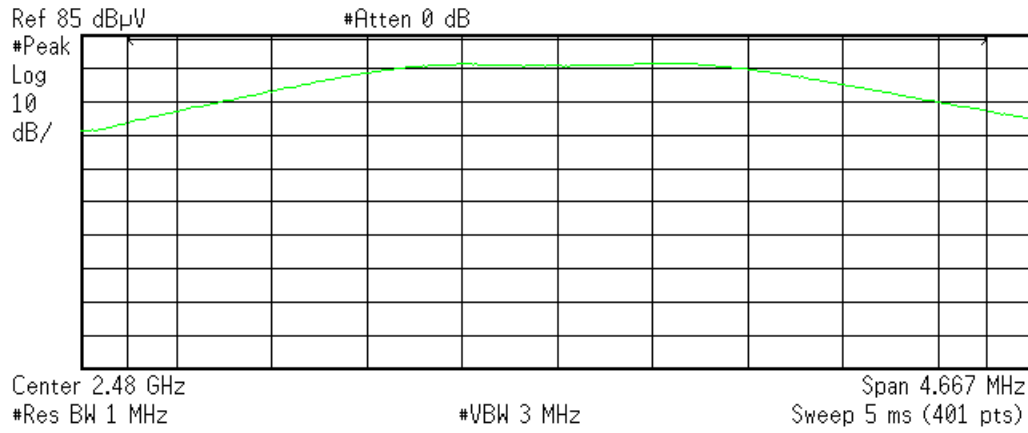
12.89 dB μ V/Hz

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Mid Channel

Agilent 10:14:21 Jul 27, 2012

R T



Channel Power

78.83 dBμV/4.2000 MHz

Power Spectral Density

12.59 dBμV/Hz

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High Channel

Duty Cycle Correction Calculation

MEASUREMENTS / CALCULATIONS

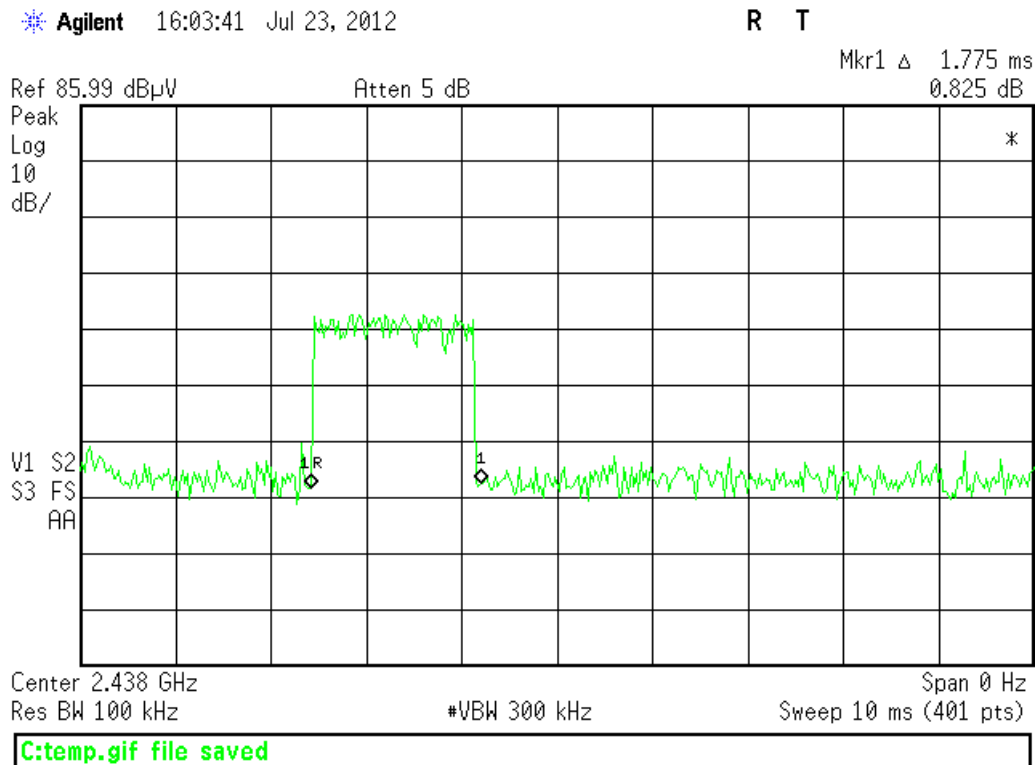
Engineer	Tuyen Truong
Date	7/23/12
Site	3M OATS

24°C, 35%, 1001mb

$$\text{DCCF} = 20 \cdot \text{LOG}(\text{DutyCycle}/100)$$

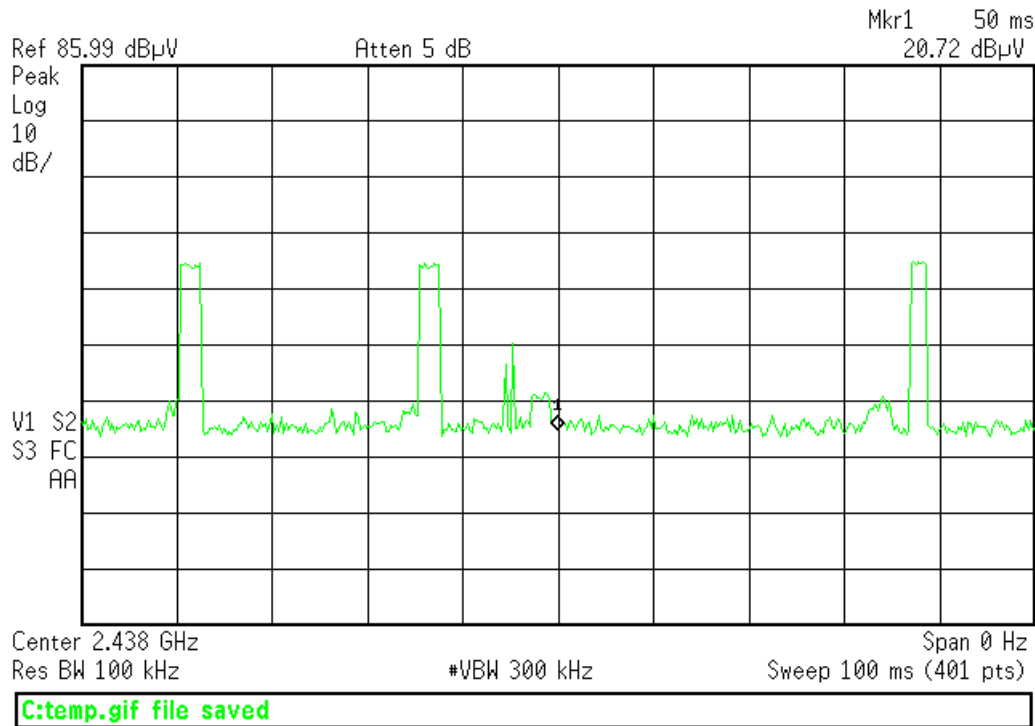
$$\text{DCCF} = 20 \cdot \text{LOG}(1.775 \cdot 3/100) = -25.5\text{dB}$$

PLOTS



Agilent 16:02:19 Jul 23, 2012

R T



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Spectrum Analyzers / Receivers /Preselectors

Rental SA #1 (Brown)

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	2/14/2013

Radiated Emissions Sites

1DCC-OATS-3M-I

FCC Code	IC Code	VCCI Code	Cat	Calibration Due
719150	2762A-8	A-0015	II	8/7/2012

Antennas

Orange Horn

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
1-18GHz	3115	EMCO	0004-6123	390	I	7/27/2013

Cables

REMI-High-21

Range	Mfr	Cat	Calibration Due
9kHz - 26.5GHz	C-S	II	1/31/2013

Meteorological Meters

Weather Clock (Pressure Only)

1DCC-OATS-3M-I Thermohygrometer

MN	Mfr	SN	Asset	Cat	Calibration Due
BA928	Oregon Scientific	C3166-1	831	I	3/28/2013
35519-044	Control Company	72457635	1334	II	8/19/2013

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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)]

MEASUREMENTS / RESULTS

Transmit Mode

Spurious Emissions												
Date: 18-Jul-12			Company: Inncom				Work Order: M1798					
Engineer: Tuyen Truong			EUT Desc: E528.4G 20dB Thermostat				EUT Operating Voltage/Frequency: 120Vac/60Hz					
Temp: 25°C			Humidity: 34%				Pressure: 1000mBar					
Frequency Range: 30 to 1000 MHz							Measurement Distance: 3 m					
Notes:												
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBμV/m)				FCC Class B		
							Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
v	48.43	49.0	25.5	9.0	0.4	32.9	---	---	---	40.0	-7.1	Pass
h	51.8	38.5	25.5	7.8	0.5	21.3	---	---	---	40.0	-18.7	Pass
v	52.28	50.2	25.5	7.7	0.5	32.9	---	---	---	40.0	-7.1	Pass
v	61.19	52.8	25.5	7.5	0.5	35.3	---	---	---	40.0	-4.7	Pass
v	70.7	44.7	25.5	8.1	0.5	27.8	---	---	---	40.0	-12.2	Pass
v	105.33	44.6	25.5	11.4	0.6	31.1	---	---	---	43.5	-12.4	Pass
v	144.3	39.2	25.5	13.0	0.7	27.4	---	---	---	43.5	-16.1	Pass
v	266.6	40.9	25.6	12.7	1.0	29.0	---	---	---	46.0	-17.0	Pass
h	313.7	37.1	25.6	13.7	1.1	26.3	---	---	---	46.0	-19.7	Pass
Table Result: Pass by -4.7 dB							Worst Freq: 61.19 MHz					
Test Site: EMI Chamber 1			Cable 1: Asset #1505			Cable 2: Asset #1522			Cable 3: ---			
Analyzer: Asset #1327			Preamp: Orange			Antenna: Red-White			Preselector: ---			

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Spectrum Analyzers / Receivers /Preselectors SA EMI Chamber (1327)	Range 9kHz-13.2 GHz	MN E4405B	Mfr Agilent	SN MY45103416	Asset 1327	Cat I	Calibration Due 5/30/2013
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015			Cat II	Calibration Due 2/16/2014
Preamps /Couplers Attenuators / Filters Orange	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 765	Cat II	Calibration Due 12/10/2012
Antennas Red-White Bilog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-1	Asset 1105	Cat I	Calibration Due 1/28/2013
Cables Asset #1505	Range 9kHz - 18GHz		Mfr Florida RF			Cat II	Calibration Due 8/19/2012
Asset #1522	9kHz - 26.5GHz		Florida RF			II	9/21/2012
Meteorological Meters Weather Clock (Pressure Only)		MN BA928	Mfr Oregon Scientific	SN C3166-1	Asset 831	Cat I	Calibration Due 3/28/2013
CHAMBER1 Thermohygrometer		35519-044	Control Company	72457642	1345	II	8/19/2013

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



Radiated Emissions Table															
Date: 18-Jul-12			Company: Inncom							Work Order: M1798					
Engineer: Matthew Burman			EUT Desc: E528.4G 20dB Thermostat							EUT Operating Voltage/Frequency: 24Vdc					
Temp: 25.7°C			Humidity: 35%							Pressure: 1012mBar					
Frequency Range: 1-6GHz										Measurement Distance: 3 m					
Notes: DCCF = 25.5dB															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Filter Factor (dB)	Adjusted Peak Reading (dBuV/m)	Adjusted Avg Reading (dBuV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average		
										Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)
v	4810.0	49.22	23.7	20.7	32.9	2.5	0.5	64.4	38.9	74.0	-9.6	Pass	54.0	-15.1	Pass
h	4810.0	50.6	25.1	20.7	32.9	2.5	0.5	65.8	40.3	74.0	-8.2	Pass	54.0	-13.7	Pass
Table Result:				Pass		by		-8.2 dB		Worst Freq: 4810.0 MHz					
Test Site: 1DCC-OATS-3M-I				Cable 1: EMIR-HIGH-21							High Pass Filter: Asset #1311				
Analyzer: Rental SA#1				Preamp: Asset #1517							Antenna: Orange Horn				

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Spectrum Analyzers / Receivers / Preselectors Rental SA #1 (Brown)	Range 9kHz-26.5GHz	MN E4407B	Mfr Agilent	SN SG44210511	Asset 1510	Cat I	Calibration Due 2/14/2013
Radiated Emissions Sites 1DCC-OATS-3M-I	FCC Code 719150	IC Code 2762A-8	VCCI Code A-0015			Cat II	Calibration Due 8/7/2012
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 1	Asset 1517 1311	Cat II II	Calibration Due 4/17/2013 1/2/2013
Antennas Orange Horn	Range 1-18GHz	MN 3115	Mfr EMCO	SN 0004-6123	Asset 390	Cat I	Calibration Due 7/27/2013
Cables REMI-High-21	Range 9kHz - 26.5GHz		Mfr C-S			Cat II	Calibration Due 1/31/2013
Meteorological Meters Weather Clock (Pressure Only) 1DCC-OATS-3M-I Thermohygrometer		MN BA928 35519-044	Mfr Oregon Scientific Control Company	SN C3166-1 72457635	Asset 831 1334	Cat I II	Calibration Due 3/28/2013 8/19/2013

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

Spurious Emissions														
Date: 18-Jul-12				Company: Inncom				Work Order: M1798						
Engineer: Matthew Burman				EUT Desc: E528.4G 20dB Thermostat				EUT Operating Voltage/Frequency: 24Vdc						
Temp: 25.7 °C				Humidity: 35%				Pressure: 1012mBar						
Frequency Range: 6-18GHz									Measurement Distance: 1 m					
Notes:														
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBuV/m)	Adjusted Avg Reading (dBuV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average		
									Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)
v	7215.0	38.9	28.1	20.3	37.0	3.6	59.2	48.4	83.5	-24.3	Pass	63.5	-15.1	Pass
v - nf	9620.0	33.4	24.6	19.9	38.4	3.6	55.5	46.7	83.5	-28.0	Pass	63.5	-16.8	Pass
v - nf	12025.0	34.1	24.5	19.7	39.5	4.2	58.1	48.5	83.5	-25.4	Pass	63.5	-15.0	Pass
v - nf	14430.0	36.3	27.1	19.4	42.0	4.6	63.5	54.3	83.5	-20.0	Pass	63.5	-9.2	Pass
v - nf	16835.0	34.55	25.5	19.4	41.7	5.4	62.3	53.2	83.5	-21.3	Pass	63.5	-10.3	Pass
Table Result:				Pass by -9.2 dB				Worst Freq: 14430.0 MHz						
Test Site: 1DCC-OATS-3M-I				Cable 1: EMIR-HIGH-21				Cable 2: ---				Cable 3: ---		
Analyzer: Rental SA#1				Preamp: Asset #1517				Antenna: Orange Horn				Preselector: ---		

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Spectrum Analyzers / Receivers / Preselectors Rental SA #1 (Brown)	Range 9kHz-26.5GHz	MN E4407B	Mfr Agilent	SN SG44210511	Asset 1510	Cat I	Calibration Due 2/14/2013
Radiated Emissions Sites 1DCC-OATS-3M-I	FCC Code 719150	IC Code 2762A-8	VCCI Code A-0015			Cat II	Calibration Due 8/7/2012
Preamps / Couplers Attenuators / Filters 1517 HF Preamp	Range 1-20GHz	MN CS	Mfr CS	SN N/A	Asset 1517	Cat II	Calibration Due 4/17/2013
Antennas Orange Horn	Range 1-18GHz	MN 3115	Mfr EMCO	SN 0004-6123	Asset 390	Cat I	Calibration Due 7/27/2013
Cables REMI-High-21	Range 9kHz - 26.5GHz		Mfr C-S			Cat II	Calibration Due 1/31/2013
Meteorological Meters Weather Clock (Pressure Only) 1DCC-OATS-3M-I Thermohygrometer		MN BA928 35519-044	Mfr Oregon Scientific Control Company	SN C3166-1 72457635	Asset 831 1334	Cat I II	Calibration Due 3/28/2013 8/19/2013

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Radiated Emissions Table																		
Date: 18-Jul-12				Company: Inncom						Work Order: M1798								
Engineer: Matthew Burman				EUT Desc: E528.4G 20dB Thermostat						EUT Operating Voltage/Frequency: 24Vdc								
Temp: 25.7°C				Humidity: 35%						Pressure: 1012mBar								
Frequency Range: 18-26.5GHz										Measurement Distance: 1 m								
Notes:																		
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average						
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)				
no emissions found					---	---	---	---	---	---	---	---	---	---				
Table Result:				---		by		---		dB		Worst Freq:			---		MHz	
Test Site: 1DCC-OATS-3M-I				Cable 1: EMIR-HIGH-21				Cable 2: ---				Cable 3: ---						
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---						

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Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Rental SA #1 (Brown)		9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	2/14/2013
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code			Cat	Calibration Due
1DCC-OATS-3M-I		719150	2762A-8	A-0015			II	8/7/2012
Preamps /Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
HF (Yellow)		18-26.5GHz	AFS4-18002650-60-8P-4	CS	467559	1266	I	10/6/2012
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
HF (White) Horn		18-26.5GHz	801-WLM	Waveline	758	758	I	Verify before Use
Cables		Range		Mfr			Cat	Calibration Due
REMI-High-21		9kHz - 26.5GHz		C-S			II	1/31/2013
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due
Weather Clock (Pressure Only)			BA928	Oregon Scientific	C3166-1	831	I	3/28/2013
1DCC-OATS-3M-I Thermohyrometer			35519-044	Control Company	72457635	1334	II	8/19/2013

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

Receive Mode

Radiated Emissions Table																			
Date: 18-Jul-12				Company: Inncom						Work Order: M1798									
Engineer: Matthew Burman				EUT Desc: E528.4G 20dB Thermostat						EUT Operating Voltage/Frequency: 24Vdc									
Temp: 25.7°C				Humidity: 35%						Pressure: 1012mBar									
Frequency Range: 1-6GHz										Measurement Distance: 3 m									
Notes: Receive Mode																			
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Filter Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average						
										Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)				
no emissions found																			
Table Result:				---		by		---		dB		Worst Freq:				---		MHz	
Test Site: 1DCC-OATS-3M-I				Cable 1: EMIR-HIGH-21				High Pass Filter: Asset #1311				Cable 3: ---							
Analyzer: Rental SA#1				Preamp: Asset #1517				Antenna: Orange Horn				Preselector: ---							

Rev.7/14/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Rental SA #1 (Brown)		9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	2/14/2013
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code			Cat	Calibration Due
1DCC-OATS-3M-I		719150	2762A-8	A-0015			II	8/7/2012
Preamps /Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
1517 HF Preamp		1-20GHz	CS	CS	N/A	1517	II	4/17/2013
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Orange Horn		1-18GHz	3115	EMCO	0004-6123	390	I	7/27/2013
Cables		Range		Mfr			Cat	Calibration Due
REMI-High-21		9kHz - 26.5GHz		C-S			II	1/31/2013
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due
Weather Clock (Pressure Only)			BA928	Oregon Scientific	C3166-1	831	I	3/28/2013
1DCC-OATS-3M-I Thermohyrometer			35519-044	Control Company	72457635	1334	II	8/19/2013

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Spurious Emissions																			
Date: 18-Jul-12				Company: Inncom						Work Order: M1798									
Engineer: Matthew Burman				EUT Desc: E528.4G 20dB Thermostat						EUT Operating Voltage/Frequency: 24Vdc									
Temp: 25.7°C				Humidity: 35%						Pressure: 1012mBar									
Frequency Range: 6-18GHz										Measurement Distance: 1 m									
Notes: Receive mode																			
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average							
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)					
									no emissions found										
Table Result:				---		by		---		dB		Worst Freq:			---		MHz		
Test Site: 1DCC-OATS-3M-I					Cable 1: EMIR-HIGH-21					Cable 2: ---					Cable 3: ---				
Analyzer: Rental SA#1					Preampn: Asset #1517					Antenna: Orange Horn					Preselector: ---				

Rev.7/14/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Rental SA #1 (Brown)		9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	2/14/2013
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code			Cat	Calibration Due
1DCC-OATS-3M-I		719150	2762A-8	A-0015			II	8/7/2012
Preamps /Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
1517 HF Preamp		1-20GHz	CS	CS	N/A	1517	II	4/17/2013
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Orange Horn		1-18GHz	3115	EMCO	0004-6123	390	I	7/27/2013
Cables		Range		Mfr			Cat	Calibration Due
REMI-High-21		9kHz - 26.5GHz		C-S			II	1/31/2013
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due
Weather Clock (Pressure Only)			BA928	Oregon Scientific	C3166-1	831	I	3/28/2013
1DCC-OATS-3M-I Thermohygrometer			35519-044	Control Company	72457635	1334	II	8/19/2013

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Radiated Emissions Table																
Date: 18-Jul-12				Company: Inncom						Work Order: M1798						
Engineer: Matthew Burman				EUT Desc: E528.4G 20dB Thermostat						EUT Operating Voltage/Frequency: 24Vdc						
Temp: 25.7°C				Humidity: 35%						Pressure: 1012mBar						
Frequency Range: 18-26.5GHz										Measurement Distance: 1 m						
Notes: Receive mode																
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dBμV)	Average Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dBμV/m)	Adjusted Avg Reading (dBμV/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average				
									Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)		
no emissions found					---	---	---	---	---	---	---	---	---	---		
Table Result:				---		by		---		dB		Worst Freq:			---	MHz
Test Site: 1DCC-OATS-3M-I				Cable 1: EMIR-HIGH-21				Cable 2: ---				Cable 3: ---				
Analyzer: Rental SA#1				Preamp: 18-26.5GHz				Antenna: 18-26.5GHz Horn				Preselector: ---				

Rev.7/14/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Rental SA #1 (Brown)		9kHz-26.5GHz	E4407B	Agilent	SG44210511	1510	I	2/14/2013
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code			Cat	Calibration Due
1DCC-OATS-3M-I		719150	2762A-8	A-0015			II	8/7/2012
Preamps /Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
HF (Yellow)		18-26.5GHz	AFS4-18002650-60-8P-4	CS	467559	1266	I	10/6/2012
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
HF (White) Horn		18-26.5GHz	801-WLM	Waveline	758	758	I	Verify before Use
Cables		Range		Mfr			Cat	Calibration Due
REMI-High-21		9kHz - 26.5GHz		C-S			II	1/31/2013
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due
Weather Clock (Pressure Only)			BA928	Oregon Scientific	C3166-1	831	I	3/28/2013
1DCC-OATS-3M-I Thermohygrometer			35519-044	Control Company	72457635	1334	II	8/19/2013

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AC Line Conducted Emissions LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dBμV)	Average limit (dBμV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.
[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

AC Conducted Emissions Data Table														
Date: 29-Aug-12					Company: Inncomm					Work Order: M1798				
Engineer: Edward Breen					EUT Desc: 20dB thermostat									
Temp: 23.9 °C					Humidity: 34%					Pressure: 1007 mBar				
Notes: Replaced AC power supply with a DC power supply: PS564.DIN. New supply has an output of 12Vdc. Measured AC side of this DC power supply.														
Frequency Range: 0.15-30MHz										EUT Input Voltage/Frequency: 120V/Hz				
Frequency (MHz)	Quasi-Peak Readings		Average Readings		LISN Factors		Cable Factor (dB)	ATTN Factor (dB)	FCC/CISPR Class B			FCC/CISPR Class B		
	QP1 (dBuV)	QP2 (dBuV)	AVG1 (dBuV)	AVG2 (dBuV)	L1 (dB)	L2 (dB)			QP Limit (dB)	Margin (dB)	Result (Pass/Fail)	AVG Limit (dB)	Margin (dB)	Result (Pass/Fail)
>transmit mode														
0.65	21.6	25.4	3.7	9.7	-0.1	-0.2	-0.1	-20.1	56.0	-10.3	Pass	46.0	-16.0	Pass
3.90	33.3	33.1	18.6	23.8	-0.1	-0.1	-0.1	-20.1	56.0	-2.5	Pass	46.0	-1.9	Pass
5.35	21.7	24.7	14.3	15.8	-0.1	-0.1	-0.1	-20.1	60.0	-15.0	Pass	50.0	-13.9	Pass
18.37	26.6	25.3	19.4	18.5	-0.1	-0.1	-0.2	-20.1	60.0	-13.1	Pass	50.0	-10.3	Pass
24.00	20.5	20.9	7.6	9.5	-0.1	-0.1	-0.3	-20.1	60.0	-18.7	Pass	50.0	-20.1	Pass
29.90	26.6	29.0	11.0	13.1	-0.1	-0.2	-0.3	-20.1	60.0	-10.6	Pass	50.0	-16.5	Pass
>standby mode														
0.66	18.9	23.9	4.0	13.6	-0.1	-0.2	-0.1	-20.1	56.0	-11.8	Pass	46.0	-12.1	Pass
3.90	29.7	29.3	15.4	22.3	-0.1	-0.1	-0.1	-20.1	56.0	-6.1	Pass	46.0	-3.4	Pass
5.35	18.6	18.9	11.4	14.2	-0.1	-0.1	-0.1	-20.1	60.0	-20.8	Pass	50.0	-15.5	Pass
18.37	21.6	20.8	15.0	16.9	-0.1	-0.1	-0.2	-20.1	60.0	-18.1	Pass	50.0	-12.7	Pass
21.96	16.9	17.4	11.6	12.7	-0.1	-0.1	-0.3	-20.1	60.0	-22.2	Pass	50.0	-16.9	Pass
26.17	15.5	15.6	10.5	11.0	-0.1	-0.1	-0.2	-20.1	60.0	-24.0	Pass	50.0	-18.6	Pass
Result: Pass					Worst Margin:					-1.9 dB		Frequency: 3.90 MHz		
Measurement Device: Green LISN					Cable: CEMI-02					Spectrum Analyzer: Rental #2				
					Attenuator: 20dB Attenuator-43					Site: CEMI 3				

Rev. 8/20/2012

Spectrum Analyzers / Receivers / Preselectors

Rental SA #2

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
9kHz-26.5 GHz	E7405A	Agilent	MY45104194	rental	I	1/5/2013

LISNs/Measurement Probes

Green LISN

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
9kHz-50MHz	8012-50-R-24-BNC	Solar	411658	987	I	5/10/2013

Conducted Test Sites (Mains / Telco)

CEMI 3

FCC Code	VCCI Code	Cat	Calibration Due
719150	A-0015	III	NA

Meteorological Meters

Temp./Humidity/Atm. Pressure Gauge
CEMI3 Thermohygrometer

MN	Mfr	SN	Asset	Cat	Calibration Due
7400 Perception II	Davis	N/A	965	I	4/4/2013
35519-044	Control Company	72457729	1338	II	8/19/2013

Cables

CEMI-02

Range	Mfr	Cat	Calibration Due
9kHz - 2GHz	C-S	II	4/10/2013

Attenuators

20dB Attenuator-43

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
9kHz-2GHz			N/A		II	6/18/2013

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Occupied Bandwidth

REQUIREMENT

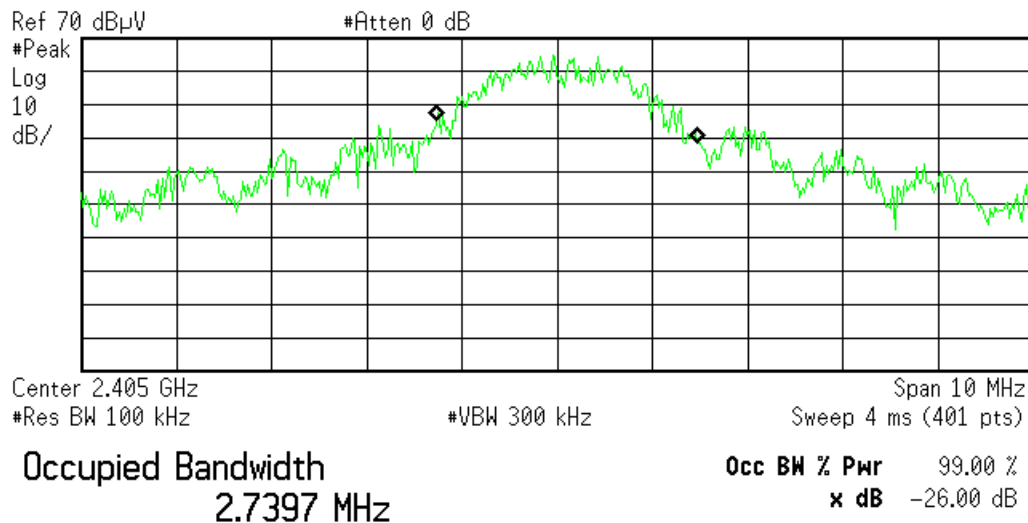
When an occupied bandwidth is no specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]

Engineer	Edward Breen
Date	11/16/12
Site	3M OATS

22.7°C, 21%, 1021mb

Agilent 16:46:26 Nov 16, 2012

R T



Transmit Freq Error 106.086 kHz

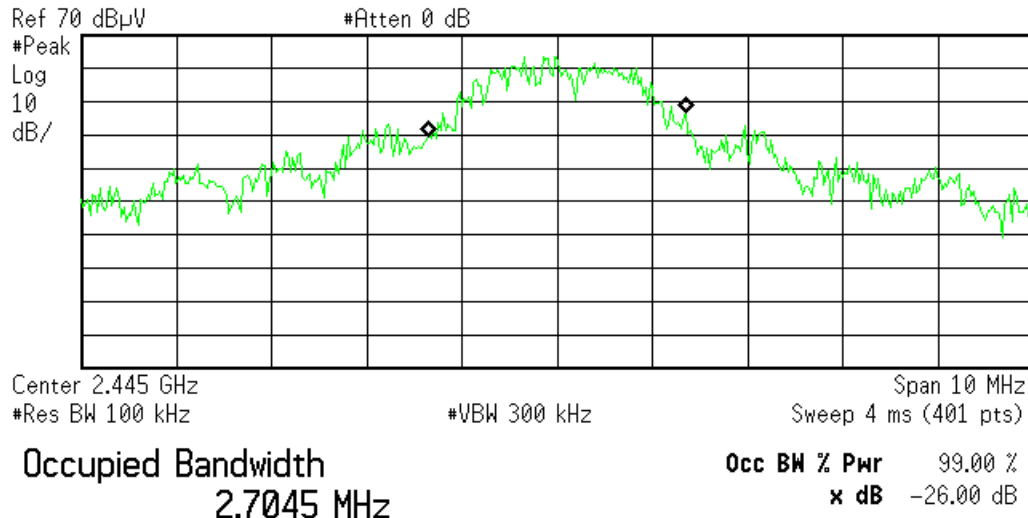
x dB Bandwidth 4.390 MHz*

C:\temp.gif file saved

OBW – Low Channel

✱ Agilent 16:40:41 Nov 16, 2012

R T



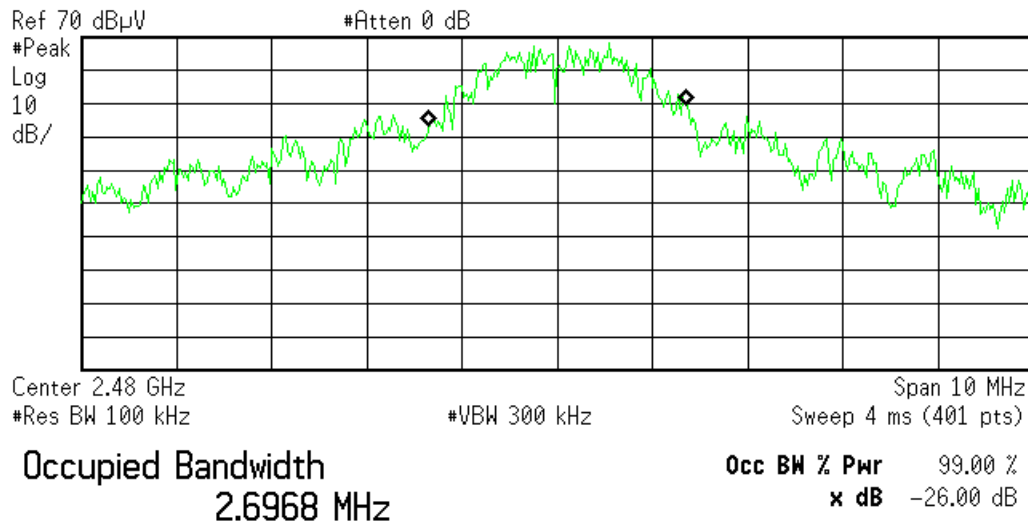
Transmit Freq Error -5.700 kHz
x dB Bandwidth 4.467 MHz*

C:\temp.gif file saved

OBW – Mid Channel

✱ Agilent 16:44:52 Nov 16, 2012

R T



Transmit Freq Error 6.213 kHz
x dB Bandwidth 4.280 MHz*

C:\temp.gif file saved

OBW – High Channel



Rev. 11/15/2012

Spectrum Analyzers / Receivers /Preselectors
Gold

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	2/3/2013

Radiated Emissions Sites
EMI Chamber 1

FCC Code	IC Code	VCCI Code	Cat	Calibration Due
719150	2762A-6	A-0015	II	2/16/2014

Antennas
Black Horn

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
1-18GHz	3115	EMCO	9703-5148	56	I	6/29/2013

Meteorological Meters
Temp./Humidity/Atm. Pressure Gauge
CHAMBER1 Thermohygrometer

MN	Mfr	SN	Asset	Cat	Calibration Due
7400 Perception II	Davis	N/A	965	I	4/4/2013
35519-044	Control Company	72457642	1345	II	8/19/2013

Cables
Asset #1505
Asset #1507

Range	Mfr	Cat	Calibration Due
9kHz - 18GHz	Florida RF	II	2/9/2013
9kHz - 26.5GHz	Florida RF	II	1/31/2013

Preamps /Couplers Attenuators / Filters
Brown

Range	MN	Mfr	SN	Asset	Cat	Calibration Due
1-18GHz	CS	CS	N/A	1523	II	12/10/2012

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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)	5.6dB	N/A
NIST	4.6dB	5.2dB (Ucispri)
CISPR		
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 (Ucispri)
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		

Product Documentation

The following documentation has been provided by the client for inclusion in this report.



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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 where 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.



BUREAU
VERITAS

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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.

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 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.

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