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VERITAS

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

Test Report

Report No	EM1799-2
Client	Inncom
Address	277 West Main Street Niantic, CT 06357
Phone	860-739-4468
Items tested	K595 RF Motion Sensor
FCC ID	GTC202517TXR
IC ID	1609A-202517TXR
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, 27, 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	<u>12/28/2012</u>
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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Contents

Contents.....	2
Summary.....	3
Test Methodology.....	3
Product Tested - Configuration Documentation	4
Statement of Conformity.....	5
Modifications Required for Compliance	5
Peak Power	6
Duty Cycle Correction Calculation	9
Radiated Spurious Emissions	11
AC Line Conducted Emissions	15
Occupied Bandwidth.....	16
Measurement Uncertainty.....	19
Product Documentation	21
Product Documentation	21
Conditions Of Testing	22

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



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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 K595 RF Motion Sensor. It is a transmitter that operates in the range 2405-2480MHz

We found that the product met the above requirements without modification. The test sample was received in good condition.

Test Methodology

Radiated emission 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. No AC mains conducted emissions testing was performed since product is battery operated.

The EUT operating voltage is 6V DC.

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. 1 Reason for change Original Release

Date Issued
February 20, 2013



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page 3 of 23



Product Tested - Configuration Documentation

EUT Configuration																																																						
Work Order: M1799 Company: Inncom Company Address: 277 West Main Street Niantic, CT 06357 Contact: Ryan Gardner Person Present: Ryan Gardner																																																						
EUT: 201-595 EUT Description: K595 RF Motion Sensor EUT Max Frequency: 8MHz EUT Tx Frequency: 2405-2480MHz																																																						
Support Equipment: <table border="1"> <thead> <tr> <th>MN</th> <th>PN</th> <th>SN</th> </tr> </thead> <tbody> <tr> <td>KDS Monitor</td> <td>786N</td> <td>FBUL41215569U</td> </tr> <tr> <td>Dell Keyboard</td> <td>SK-8110</td> <td>CN-07N242-71616-47L-0CK;</td> </tr> <tr> <td>Dell Mouse</td> <td>M-S34</td> <td>LNA10103513</td> </tr> <tr> <td>Dell PC</td> <td>HFMJM51</td> <td>CN-0C3152-70821-47K-5CFW</td> </tr> <tr> <td>B574 Network Controller</td> <td>01-9437</td> <td>B574P12RF0A0</td> </tr> </tbody> </table>							MN	PN	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																														
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EUT Ports: <table border="1"> <thead> <tr> <th>Port Label</th> <th>Port Type</th> <th>No. of ports</th> <th>No. Populated</th> <th>Cable Type</th> <th>Shielded</th> <th>Ferrites</th> <th>Length</th> <th>Max Length</th> <th>In/Out</th> <th>Unpopulated NEBS Type</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>Power</td> <td>Battery Power</td> <td>1</td> <td>1</td> <td>2-wire</td> <td>no</td> <td>none</td> <td>1"</td> <td>1"</td> <td>indoor</td> <td></td> <td></td> </tr> <tr> <td>Digital Input</td> <td>Digital Input</td> <td>1</td> <td>1</td> <td>3-wire</td> <td>no</td> <td>none</td> <td>1m</td> <td>10m</td> <td>indoor</td> <td></td> <td></td> </tr> <tr> <td>Programming</td> <td>Serial</td> <td>1</td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>setup only</td> </tr> </tbody> </table>							Port Label	Port Type	No. of ports	No. Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out	Unpopulated NEBS Type	Reason	Power	Battery Power	1	1	2-wire	no	none	1"	1"	indoor			Digital Input	Digital Input	1	1	3-wire	no	none	1m	10m	indoor			Programming	Serial	1	0								setup only
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Programming	Serial	1	0								setup only																																											
Software / Operating Mode Description: EUT is detecting motion																																																						
Performance Criteria: There shall be no loss of wireless transmission as indicated by the ZB link.																																																						



Statement of Conformity

The K595 RF Motion Sensor has been found to conform to the following parts of 47 CFR 15.249 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 not performed because product is battery powered.
	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.

Modifications Required for Compliance

No modifications were necessary for compliance.



Peak Power**LIMIT**

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											CFR 47 FCC §15.249					
Date: 27-Jul-12											Work Order: M1799					
Engineer: Edward Breen											EUT Operating Voltage/Frequency: battery powered					
Temp: 24.8°C											Pressure: 997mBar					
Frequency Range: 2400-2483.5MHz													Measurement Distance: 3 m			
Notes: Peak output power - peak																
Channel	Frequency (MHz)	Reading (dB μ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)		Adjusted Reading (dB μ V/m)				Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)			
low	2405.0	64.5	0.0	28.2	3.3		96.0				113.97	-18.0	Pass			
Avg	2405.0	39.0	0.0	28.2	3.3		70.5				93.97	-23.5	Pass			
mid	2445.0	62.6	0.0	28.3	3.3		94.2				113.97	-19.8	Pass			
Avg	2445.0	37.1	0.0	28.3	3.3		68.7				93.97	-25.3	Pass			
high	2480.0	63.5	0.0	28.5	3.3		95.3				113.97	-18.7	Pass			
Avg	2480.0	38.0	0.0	28.5	3.3		69.8				93.97	-24.2	Pass			
Table Result: Pass by -18.0 dB											Worst Freq: 2405.0 MHz					
Test Site: 1DCC-OATS-3M-I																
Cable 1: EMIR-HIGH-22																
Analyzer: Gold																
Preamp: none																
Antenna: Orange Horn																

Rev.7/25/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	2/3/2013
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		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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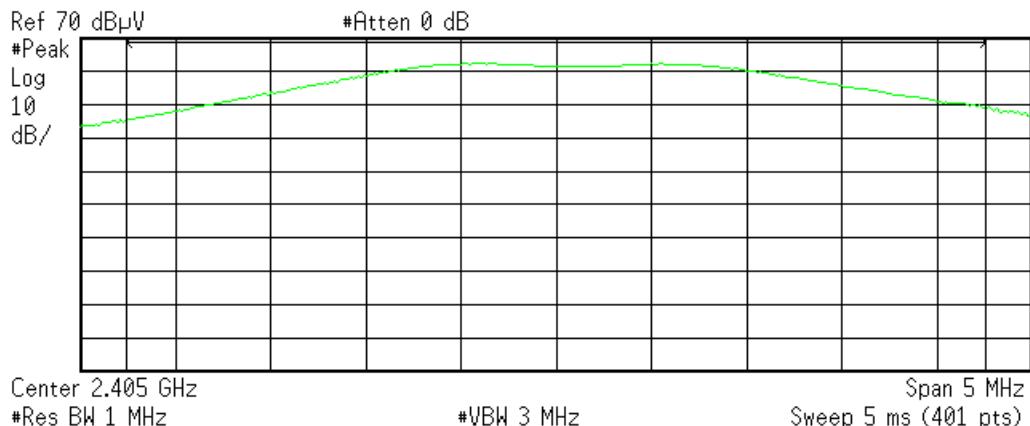
page 6 of 23

Testing Cert. No. 1627-01

PLOTS

* Agilent 09:11:24 Jul 27, 2012

R T



Channel Power

64.46 dB μ V/4.5000 MHz

Power Spectral Density

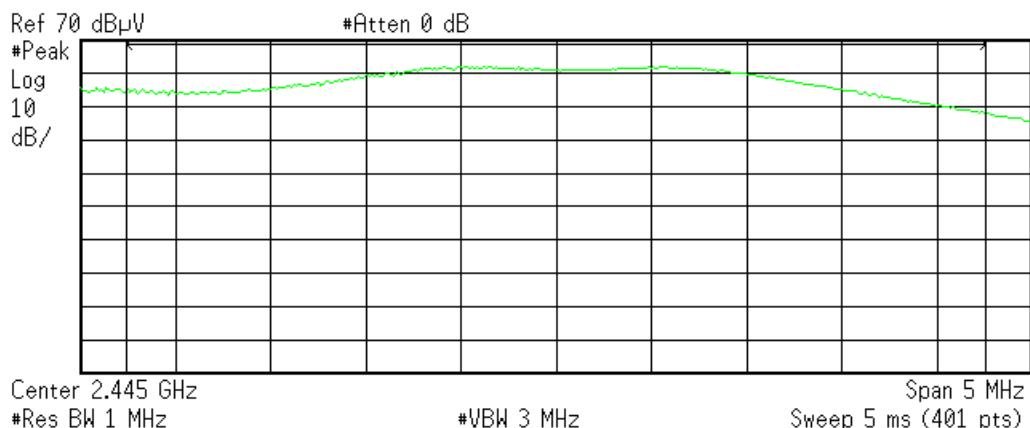
-2.07 dB μ V/Hz

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Low Channel

* Agilent 09:09:09 Jul 27, 2012

R T



Channel Power

62.60 dB μ V/4.5000 MHz

Power Spectral Density

-3.93 dB μ V/Hz

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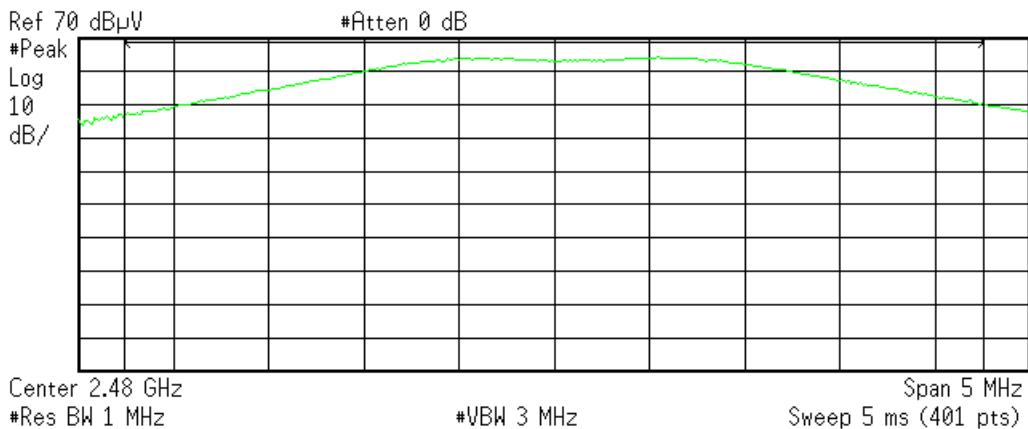


page 7 of 23

Mid Channel

⌘ Agilent 08:59:49 Jul 27, 2012

R T

**Channel Power**63.45 dB μ V/4.5000 MHz**Power Spectral Density**-3.09 dB μ V/Hz**C:\temp.gif file saved****High Channel**

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page 8 of 23

Duty Cycle Correction Calculation

MEASUREMENTS / CALCULATIONS

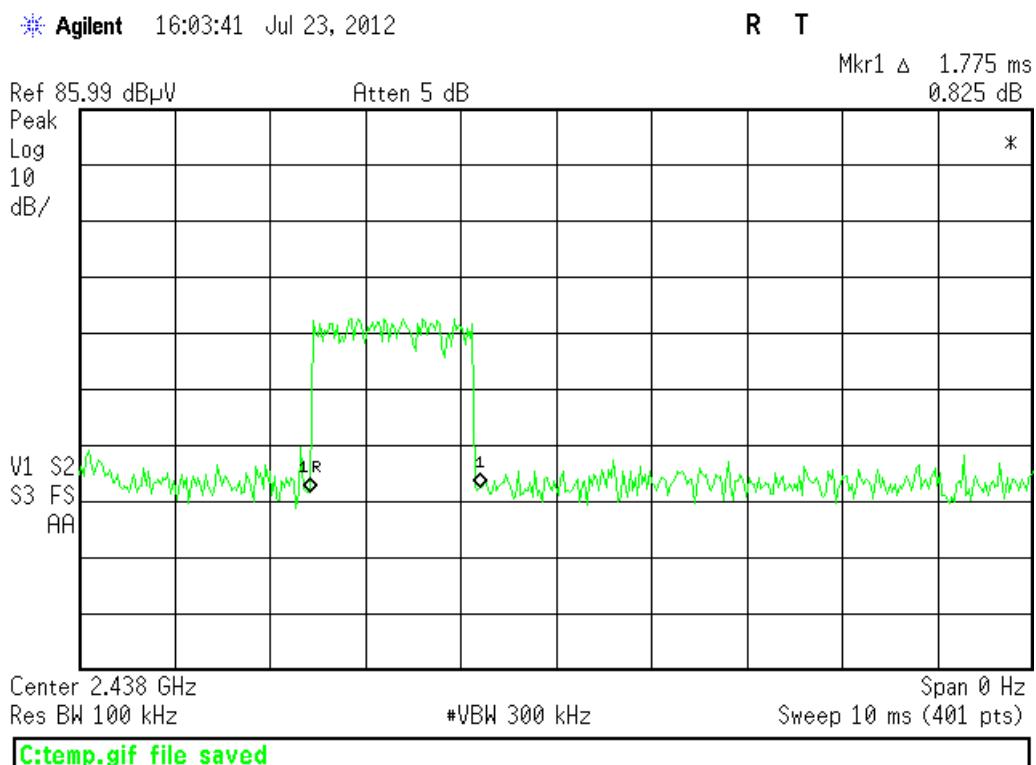
Engineer	Tuyen Truong
Date	7/23/12
Site	3M OATS

24°C, 35%, 1001mb

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

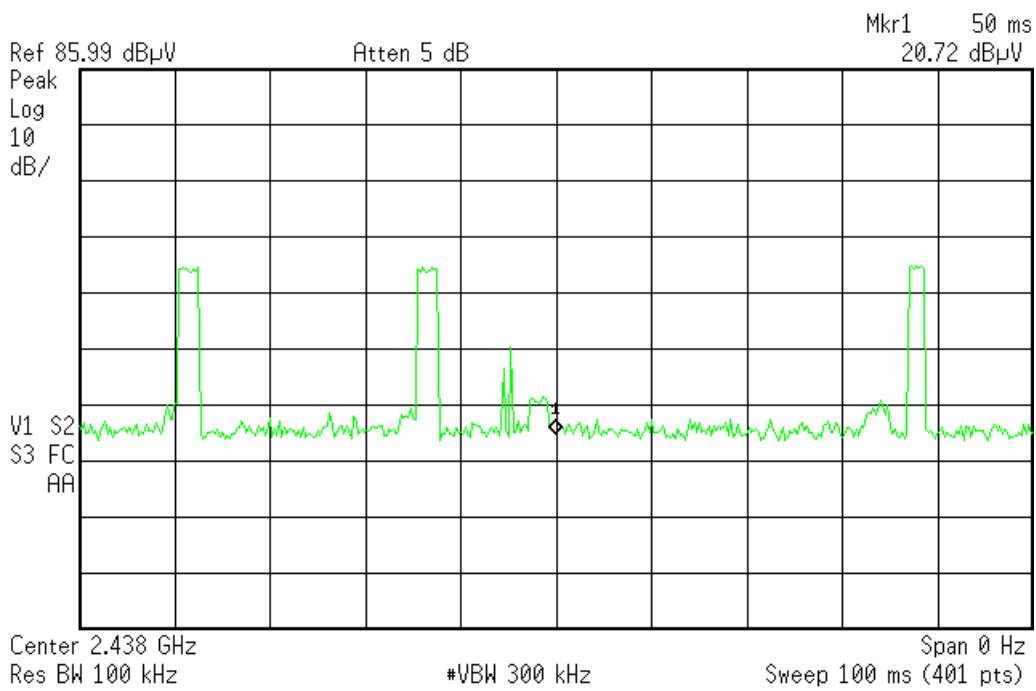
$$DCCF = 20 * \text{LOG}(1.775 * 3 / 100) = -25.5 \text{dB}$$

PLOTS



* Agilent 16:02:19 Jul 23, 2012

R T



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Rev.7/14/2012

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
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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page 10 of 23

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

Radiated Emissions Table													
Date: 18-Jul-12	Company: InnCom					Work Order: M1799							
Engineer: Tuyen Truong	EUT Desc: K595 RF Motion Detector (MN: 202-595)					EUT Operating Voltage/Frequency: 6Vdc (4x1.5Vdc Batteries)							
Temp: 25°C	Humidity: 34%					Pressure: 1000mBar							
Frequency Range: 30 to 1000 MHz					Measurement Distance: 3 m								
Notes: RF Motion Sensor					EUT Max Freq: <108MHz								
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)	CISPR Class B						
							Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)				
v	303.5	42.5	25.6	13.4	1.1	31.4	47.5	-16.1	Pass				
v	48.7	32.2	25.5	8.9	0.4	16.0	40.5	-24.5	Pass				
v	121.5	30.4	25.5	14.0	0.6	19.5	40.5	-21.0	Pass				
v	177.3	35.0	25.5	11.5	0.8	21.8	40.5	-18.7	Pass				
h	310.8	35.5	25.6	13.6	1.1	24.6	47.5	-22.9	Pass				
v	339.9	29.6	25.7	13.9	1.2	19.0	47.5	-28.5	Pass				
h	356.9	34.5	25.6	14.5	1.1	24.5	47.5	-23.0	Pass				
Table Result:		Pass	by	-14.6 dB									
Test Site: EMI Chamber 1			Cable 1: Asset #1505			Cable 2: Asset #1522							
Analyzer: Asset #1327			Preamp: Orange			Antenna: Red-White							

Rev.7/14/2012

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 Biolog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-1	Asset 1105	Cat I	Calibration Due 1/28/2013
Cables Asset #1505 Asset #1522	Range 9kHz - 18GHz 9kHz - 26.5GHz		Mfr Florida RF Florida RF			Cat II	Calibration Due 8/19/2012 9/21/2012
Meteorological Meters Weather Clock (Pressure Only) CHAMBER1 Thermohygrometer	MN BA928 35519-044	Mfr Oregon Scientific Control Company	SN C3166-1 72457642	Asset 831 1345	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.

Radiated Emissions Table													
Date: 27-Jul-12	Company: Inncom					Work Order: M1799							
Engineer: Edward Breen	EUT Desc: K595 motion detector					EUT Operating Voltage/Frequency: battery							
Temp: 25.1°C	Humidity: 38%					Pressure: 1004mBar							
Frequency Range: 1-6GHz					Measurement Distance: 3 m								
Notes: Transmit													
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	HPF Factor (dB/m)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB μ V/m)	Adjusted Avg Reading (dB μ V/m)				
H	4811	38.6	29.5	20.7	0.5	32.9	5.0	56.3	47.2				
V	4811	37.9	29.4	20.7	0.5	32.9	5.0	55.6	47.1				
Table Result:		Pass	by	-6.8 dB									
Test Site: 1DCC-OATS-3M-I			Cable 1: EMIR-HIGH-22			Antenna: Orange Horn							
Analyzer: Gold													



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page 11 of 23

Testing Cert. No. 1627-01

Rev.7/25/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	2/3/2013
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-22		Range 9kHz - 15GHz		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.

Radiated Emissions Table

Date: 27-Jul-12		Company: Inncom		Work Order: M1799											
Engineer: Edward Breen		EUT Desc: K595 motion detector													
Temp: 25.1°C		Humidity: 38%		EUT Operating Voltage/Frequency: battery											
Frequency Range: 6-18GHz			Pressure: 1004mBar												
Notes: Transmit															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB _u V)	Average Reading (dB _u V)	Preamp Factor (dB)	HPF Factor (dB/m)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB _u V/m)	Adjusted Avg Reading (dB _u V/m)	FCC Class B High Frequency - Peak		FCC Class B High Frequency - Average			
No emissions in this range		---	---	---	---	---	---	---	---	Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)
Table Result: --- by --- dB						Worst Freq: --- MHz									
Test Site: 1DCC-OATS-3M-I		Cable 1: EMIR-HIGH-22													
Analyzer: Gold		Preamp: Asset #1517				Antenna: Orange Horn									

Rev.7/25/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	2/3/2013
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-22		Range 9kHz - 15GHz		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.

Radiated Emissions Table

Date: 27-Jul-12		Company: Inncom		Work Order: M1799										
Engineer: Edward Breen		EUT Desc: K595 motion detector												
Temp: 25.1°C		Humidity: 38%		EUT Operating Voltage/Frequency: battery										
Frequency Range: 18-26.5GHz			Pressure: 1004mBar											
Notes: Transmit														
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 Class B High Frequency - Peak		FCC Class B High Frequency - Average			
No emissions in this range		---	---	---	---	---	---	---	Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB _u V/m)	Margin (dB)	Result (Pass/Fail)
Table Result: --- by --- dB						Worst Freq: --- MHz								
Test Site: 1DCC-OATS-3M-I		Cable 1: EMIR-HIGH-22				Antenna: 18-26.5GHz Horn								
Analyzer: Gold		Preamp: 18-26.5GHz												



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Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	2/3/2013
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 HF (Yellow)		Range 18-26.5GHz	MN AFS4-18002650-60-8P-4	Mfr CS	SN 467559	Asset 1266	Cat I	Calibration Due 10/6/2012
Antennas HF (White) Horn		Range 18-26.5GHz	MN 801-WLM	Mfr Waveline	SN 758	Asset 758	Cat I	Calibration Due Verify before Use
Cables REMI-High-22		Range 9kHz - 15GHz		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.

Receive Mode

Radiated Emissions Table

Date: 27-Jul-12	Company: Inncom	Work Order: M1799													
Engineer: Edward Breen	EUT Desc: K595 motion detector	EUT Operating Voltage/Frequency: battery													
Temp: 25.1°C	Humidity: 38%	Pressure: 1004mBar													
Frequency Range: 1-6GHz		Measurement Distance: 3 m													
Notes: Receive															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB μ V)	Average Reading (dB μ V)	Preamp Factor (dB)	HPF Factor (dB/m)	Antenna Factor (dB/m)	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		
No emissions in this range		---	---	---	---	---	---	---	---	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB μ V/m)	Margin (dB)	Result (Pass/Fail)
Table Result:		---	by	---	dB			Worst Freq:		---		MHz			
Test Site: 1DCC-OATS-3M-I	Cable 1: EMIR-HIGH-22		Antenna: Orange Horn		Analyzer: Gold	Preamp: Asset #1517									

Rev.7/25/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	2/3/2013
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-22		Range 9kHz - 15GHz		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.



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page 13 of 23

Testing Cert. No. 1627-01

Radiated Emissions Table

Date: 27-Jul-12	Company: Inncom	Work Order: M1799													
Engineer: Edward Breen	EUT Desc: K595 motion detector	EUT Operating Voltage/Frequency: battery													
Temp: 25.1°C	Humidity: 38%	Pressure: 1004mBar													
Frequency Range: 6-18GHz		Measurement Distance: 1 m													
Notes: Receive															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB ₁ V)	Average Reading (dB ₁ V)	Preamp Factor (dB)	HPF Factor (dB/m)	Antenna Factor (dB)	Cable Factor (dB)	Adjusted Peak Reading (dB ₁ V/m)	Adjusted Avg Reading (dB ₁ V/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average		
No emissions in this range		---	---	---	---	---	---	---	---	Limit (dB ₁ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB ₁ V/m)	Margin (dB)	Result (Pass/Fail)
Table Result: --- by --- dB												Worst Freq: --- MHz			
Test Site: 1DCC-OATS-3M-I		Cable 1: EMIR-HIGH-22		Antenna: Orange Horn		Analyzer: Gold		Preamp: Asset #1517							

Rev.7/25/2012

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	2/3/2013
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-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.

Radiated Emissions Table

Date: 27-Jul-12	Company: Inncom	Work Order: M1799													
Engineer: Edward Breen	EUT Desc: K595 motion detector	EUT Operating Voltage/Frequency: battery													
Temp: 25.1°C	Humidity: 38%	Pressure: 1004mBar													
Frequency Range: 18-26.5GHz		Measurement Distance: 0.1 m													
Notes: Receive															
Antenna Polarization (H / V)	Frequency (MHz)	Peak Reading (dB ₁ V)	Average Reading (dB ₁ V)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Peak Reading (dB ₁ V/m)	Adjusted Avg Reading (dB ₁ V/m)	FCC Class B High Frequency - Peak			FCC Class B High Frequency - Average			
No emissions in this range		---	---	---	---	---	---	---	Limit (dB ₁ V/m)	Margin (dB)	Result (Pass/Fail)	Limit (dB ₁ V/m)	Margin (dB)	Result (Pass/Fail)	
Table Result: --- by --- dB									Worst Freq: --- MHz						
Test Site: 1DCC-OATS-3M-I		Cable 1: EMIR-HIGH-22		Antenna: 18-26.5GHz Horn		Analyzer: Gold		Preamp: 18-26.5GHz							

Rev.7/25/2012

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

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AC Line Conducted Emissions**LIMITS**

Frequency of emission (MHz)	Quasi-peak limit (dB μ V)	Average limit (dB μ V)
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

This test is not applicable as the EUT is battery powered.



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page 15 of 23

Occupied Bandwidth

REQUIREMENT

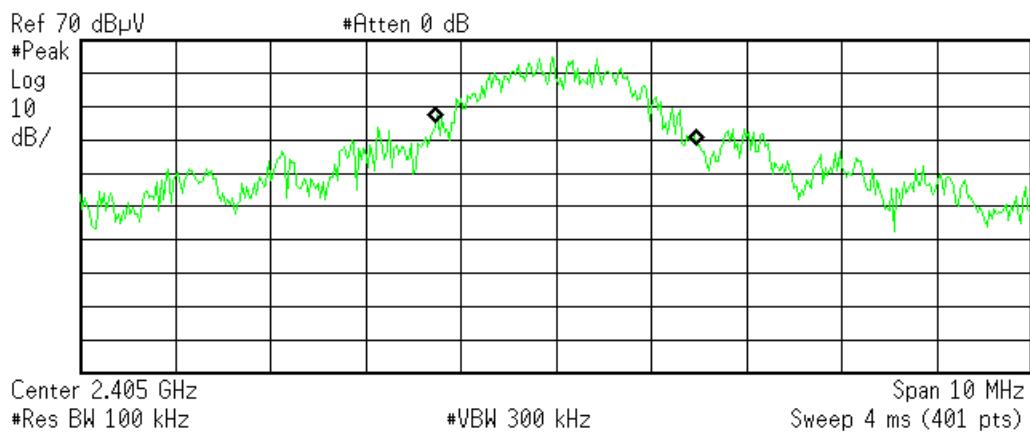
When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]

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



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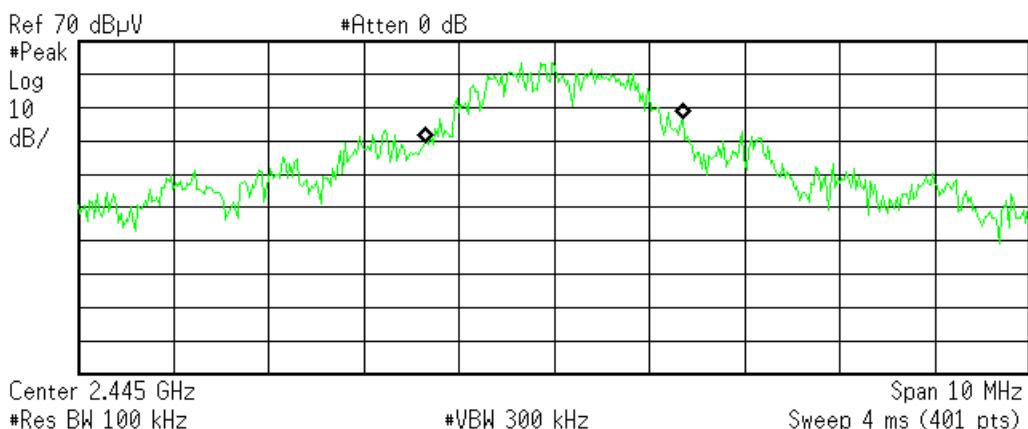


page 16 of 23

Testing Cert. No. 1627-01

* Agilent 16:40:41 Nov 16, 2012

R T



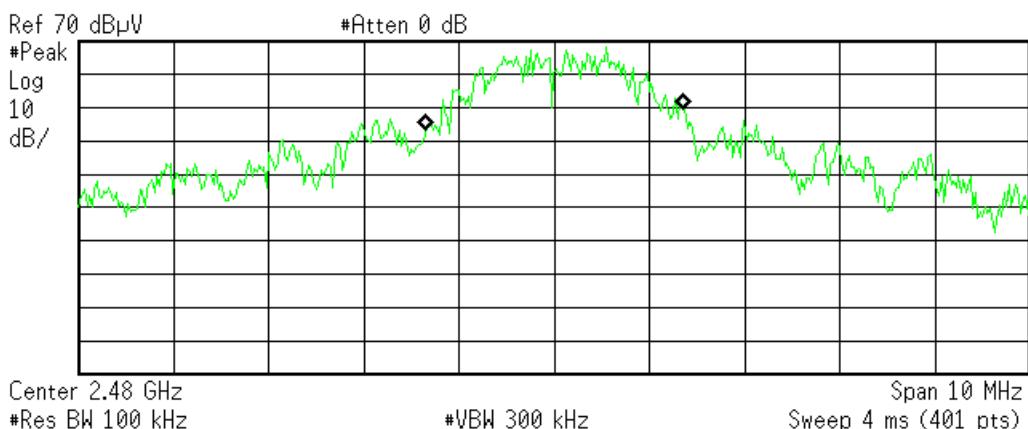
Transmit Freq Error -5.700 kHz
x dB Bandwidth 4.467 MHz*

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

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Rev. 11/15/2012

Spectrum Analyzers / Receivers /Preselectors Gold	Range 100Hz-26.5 GHz	MN E4407B	Mfr Agilent	SN MY45113816	Asset 1284	Cat I	Calibration Due 2/3/2013
Radiated Emissions Sites EMI Chamber 1	FCC Code 719150	IC Code 2762A-6	VCCI Code A-0015			Cat II	Calibration Due 2/16/2014
Antennas Black Horn	Range 1-18GHz	MN 3115	Mfr EMCO	SN 9703-5148	Asset 56	Cat I	Calibration Due 6/29/2013
Meteorological Meters Temp./Humidity/Atm. Pressure Gauge CHAMBER1 Thermohygrometer		MN 7400 Perception II 35519-044	Mfr Davis Control Company	SN N/A	Asset 965 1345	Cat I II	Calibration Due 4/4/2013 8/19/2013
Cables Asset #1505 Asset #1507	Range 9kHz - 18GHz 9kHz - 26.5GHz		Mfr Florida RF Florida RF			Cat II II	Calibration Due 2/9/2013 1/31/2013
Preamps /Couplers Attenuators / Filters Brown	Range 1-18GHz	MN CS	Mfr CS	SN N/A	Asset 1523	Cat II	Calibration Due 12/10/2012

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



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page 18 of 23

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.



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page 19 of 23

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radiated Emissions (30-1000MHz) NIST CISPR	5.6dB 4.6dB	N/A 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 CISPR	3.9dB 3.6dB	N/A 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		



Product Documentation

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



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page 21 of 23

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.

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.

Rev.160009121(2) #684340 v13CS



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page 23 of 23

Testing Cert. No. 1627-01