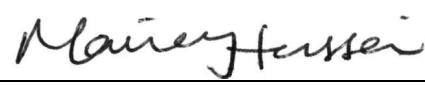




BUREAU
VERITAS

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

Test Report

Report No	EK1062-1
Client	DogWatch Inc.
Address	10 Michigan Drive Natick, MA 01760
Phone	508 - 650 - 0600
Items tested	BL100C Collar Unit
FCC ID	L66DWCBLSH2
FRN	0018536615
Equipment Type	Part 15.247 Frequency Hopper
Equipment Code	DSS
FCC/IC Rule Parts	47 CFR 15.247, RSS 210 issue 7 and RSS GEN issue 2
Test Dates	August 24-25, 2010
Results	As detailed within this report
Prepared by	 Matthew Burman – Test Engineer
Authorized by	 Mairaj Hussain – EMC Supervisor
Issue Date	<u>October 25, 2010</u>
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 34 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)



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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-210. The product is the BL100C Collar Unit. It is a frequency hopping transmitter that operates in the range 917-927MHz.

We found that the product met the above requirements without modification. Fred Peterson from DogWatch Inc. was present during the testing. The test sample was received in good condition.

The EUT does not operate while in charging mode. Charging mode was tested for verification.

Test Methodology

Radiated emission and AC Line conducted testing was performed according to the procedures specified in ANSI C63.10 (2009) and C63.4 (2009) and RSS-GEN Issue 2. 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.

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

EUT operates at 120Vac 60Hz

Low operating channel frequency = 917MHz

Mid operating channel frequency = 922MHz

High operating channel frequency = 927MHz

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
October 25, 2010



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Product Tested - Configuration Documentation

EUT Configuration										
Work Order: K1062 Company: DogWatch Inc. Company Address: 10 Michigan Drive Natick, MA 01760 Contact: Fred Peterson Person Present: Fred Peterson										
EUT: BL100C Power Supply: SP5-0501000-NA EUT Description: Collar Unit EUT TX Frequency: 917-927MHz										
Support Equipment: MN SN None										
EUT Ports:										
Port Label	Port Type	No. of ports	No.	Populated	Cable Type	Shielded	Ferrites	Length	Max Length	In/Out
DC Charging Port	DC	1	All	DC	No	None	8ft	8ft	In	NA
Software / Operating Mode Description: Running diag software to set channel, TX/RX mode, hopping mode.										



Statement of Conformity

The BL100C 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
5.3		15.15(b)	There are no controls accessible to the user that varies the output power.
5.2		15.19	The label is shown in the label exhibit.
7.1.5		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
		15.31	The EUT was tested in accordance with the measurement standards in this section.
		15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
		15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
7.1.4		15.203	The antenna for this device is printed on the PCB.
	2.6	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.
7.2.2		15.207	EUT meets the AC Line conducted emissions requirements of 15.207.
	Annex 8	15.247	The unit complies with the requirements of 15.247
4.6.1			Occupied Bandwidth measurements were made.



Test Results

20dB Bandwidth

Limit

“The maximum allowed 20dB bandwidth of the hopping channel is 500kHz.”
 [15.247(a)(i)(1)]

MEASUREMENTS / RESULTS

20dB Bandwidth					
Test Engineer: Evan Gould Spectrum Analyzer: Gold Site: 3m Indoor OATS Temp: 21.6°C Humidity: 50% Pressure: 1002mbar					
	Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
	Low	917	118.911	500	Pass
	Mid	922	117.965	500	Pass
	High	927	117.448	500	Pass

Rev: 31-Aug-2010

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	9-Apr-2011
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due
Temp./Humidity/Atm. Pressure Gauge 1DCC-OATS-3M-I Thermohygrometer		7400 Perception II 35519-044	Davis Control Company	N/A 72457635	965 1334	I II	6-Apr-2011 18-Aug-2011

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



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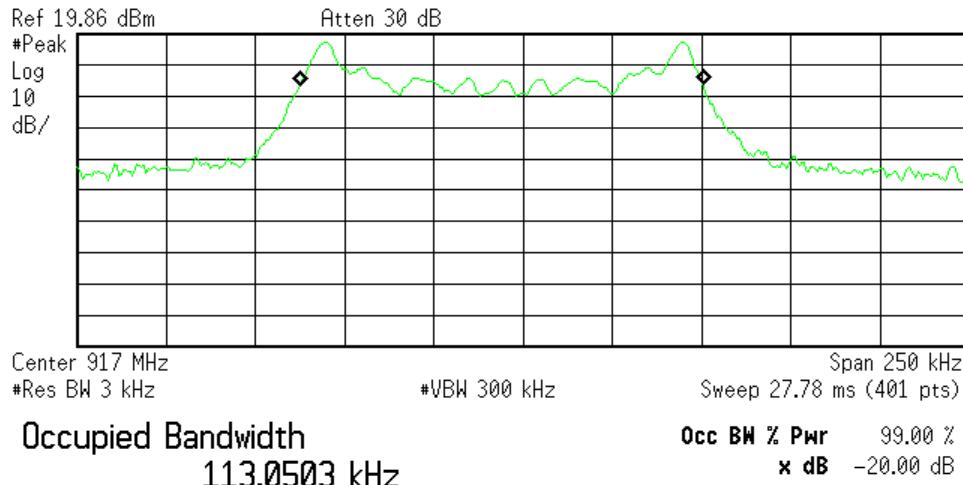


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Low Channel

Agilent 13:24:41 Aug 24, 2010

R T



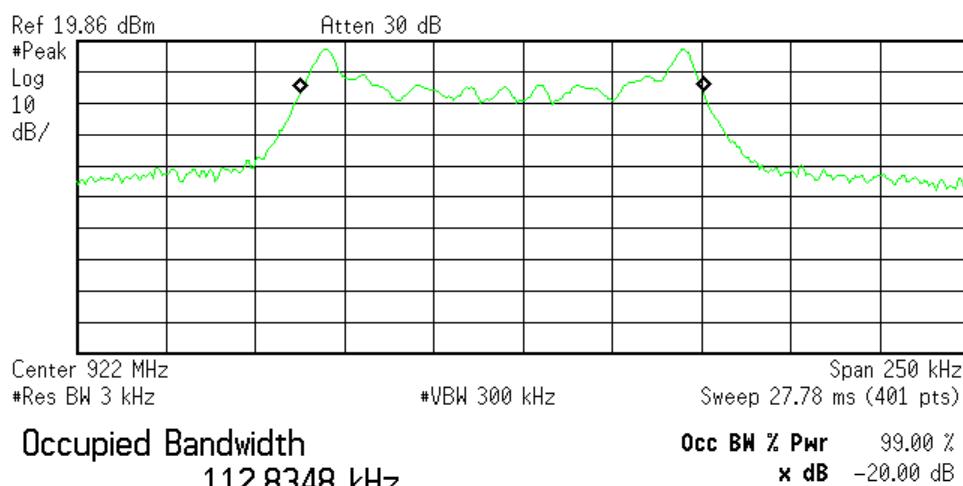
Transmit Freq Error -6.084 kHz
x dB Bandwidth 118.911 kHz

C:\temp.gif file saved

Mid Channel

Agilent 13:26:33 Aug 24, 2010

R T



Transmit Freq Error -5.919 kHz
x dB Bandwidth 117.965 kHz

C:\temp.gif file saved



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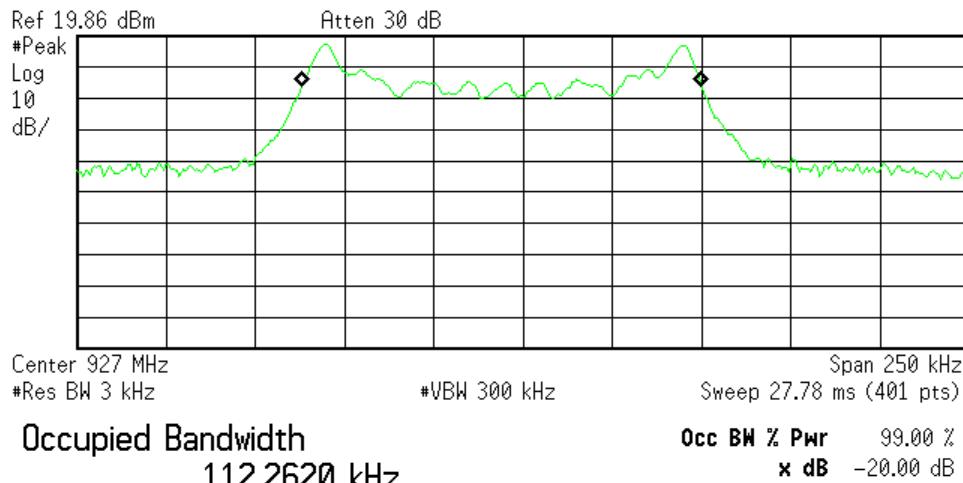


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High Channel

Agilent 13:28:29 Aug 24, 2010

R T



Transmit Freq Error -5.958 kHz
x dB Bandwidth 117.448 kHz

C:\temp.gif file saved



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Testing Cert. No. 1627-01

Peak Power

LIMIT

Conducted Output Power

1 Watt

[15.247(b) (2)]

MEASUREMENTS / RESULTS

DATA TABLE

30dB = 1Watt

Power Option 1

Peak Output Power					
Test Engineer: Evan Gould Spectrum Analyzer: Gold Site: 3m Indoor OATS Temp: 21.6 °C Humidity: 50% Pressure: 1002mbar					
	Channel	Frequency (MHz)	Reading (dB)	Limit (dBm)	Result
	Low	917	16.78	30	Pass
	Mid	922	16.71	30	Pass
	High	927	16.65	30	Pass

Rev: 31-Aug-2010

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold	100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	9-Apr-2011
Meteorological Meters							
Temp./Humidity/Atm. Pressure Gauge		MN	Mfr	SN	Asset	Cat	Calibration Due
1DCC-OATS-3M-I Thermohygrometer	7400 Perception II 35519-044	Davis Control Company	N/A	965 72457635	965 1334	I II	6-Apr-2011 18-Aug-2011

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

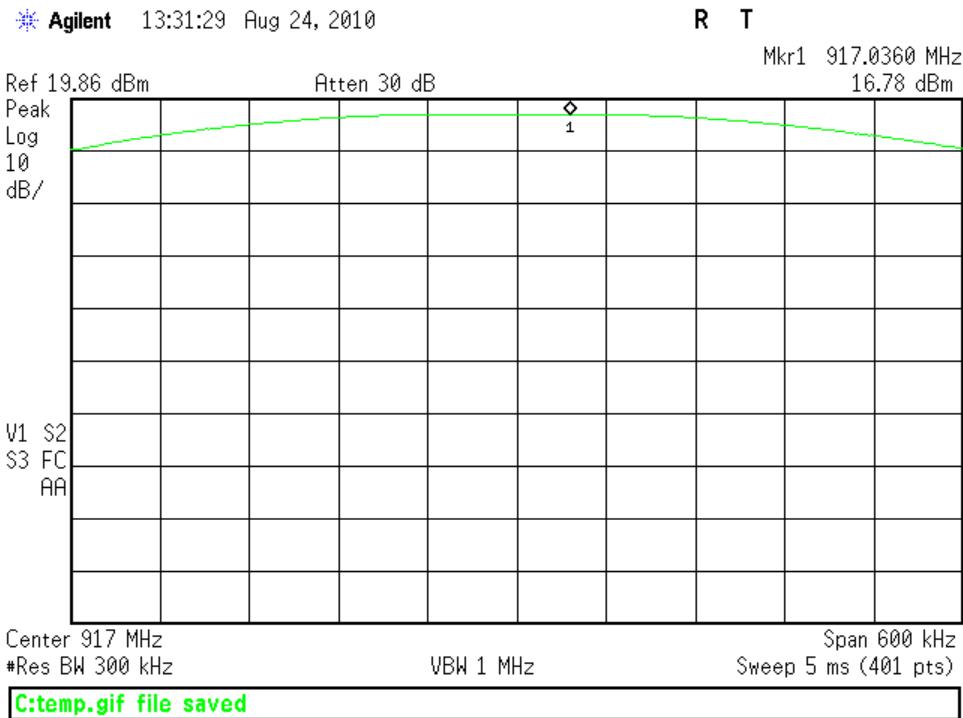
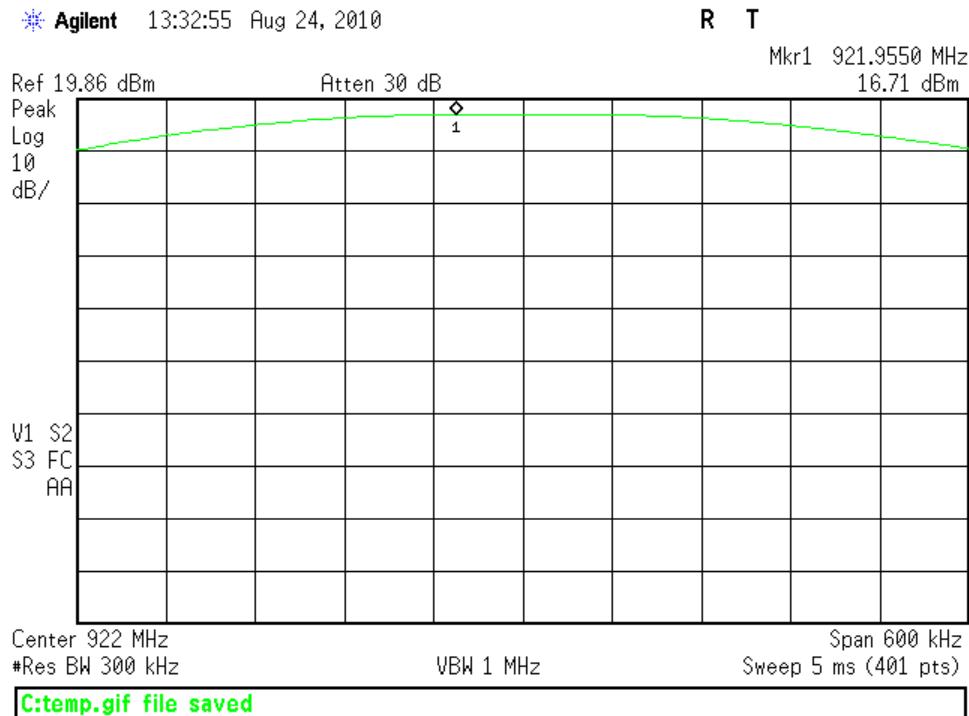


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Testing Cert. No. 1627-01

PLOTS**Low Channel****Mid Channel**

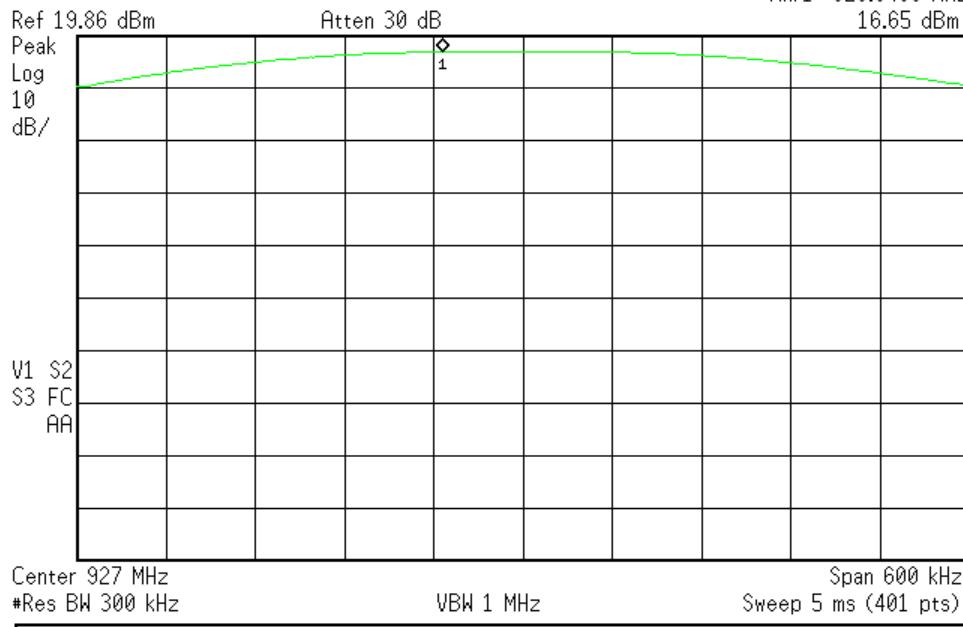
High Channel

* Agilent 13:29:55 Aug 24, 2010

R T

Mkr1 926.9460 MHz

16.65 dBm



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Testing Cert. No. 1627-01

Band Edge Measurements

LIMITS

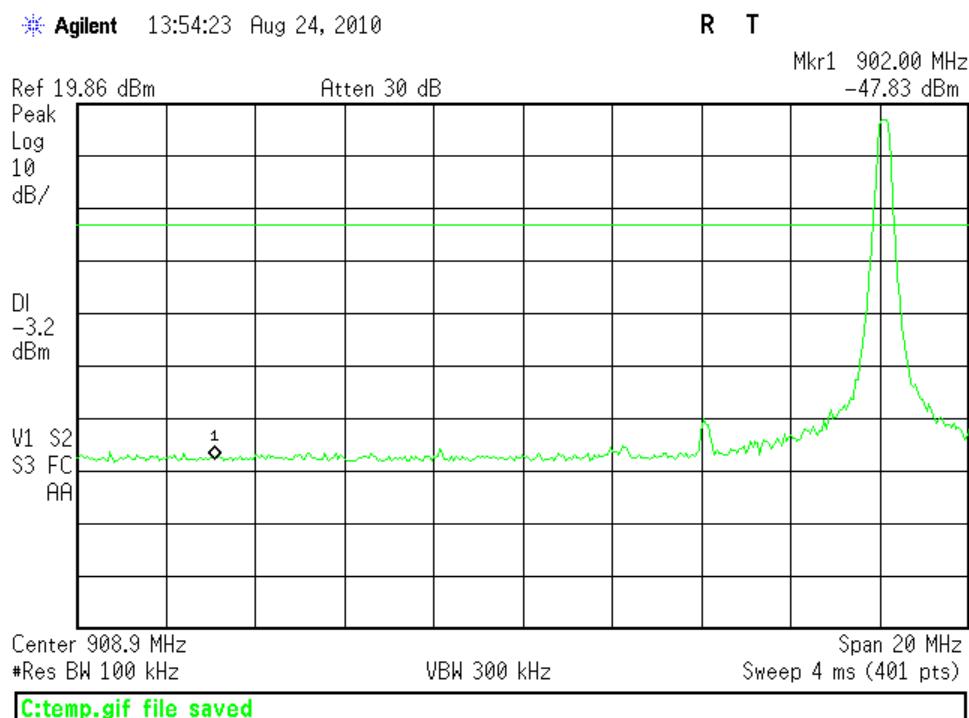
In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that...the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval,...the attenuation required under this paragraph shall be 30dB..

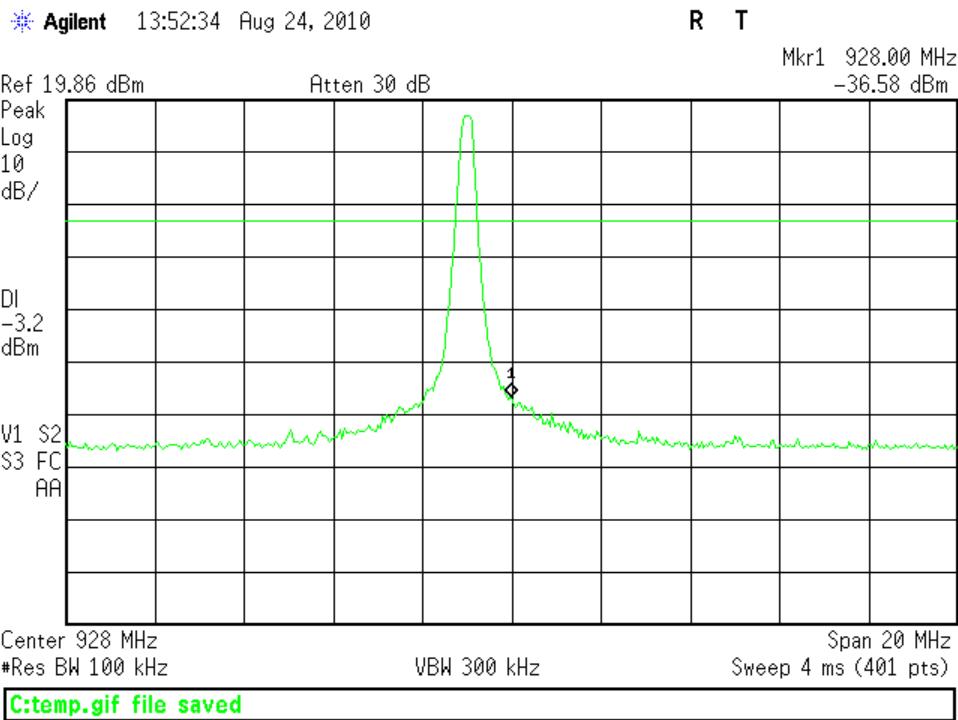
[15.247(d)]

MEASUREMENTS / RESULTS

PLOTS

Low Channel



High Channel

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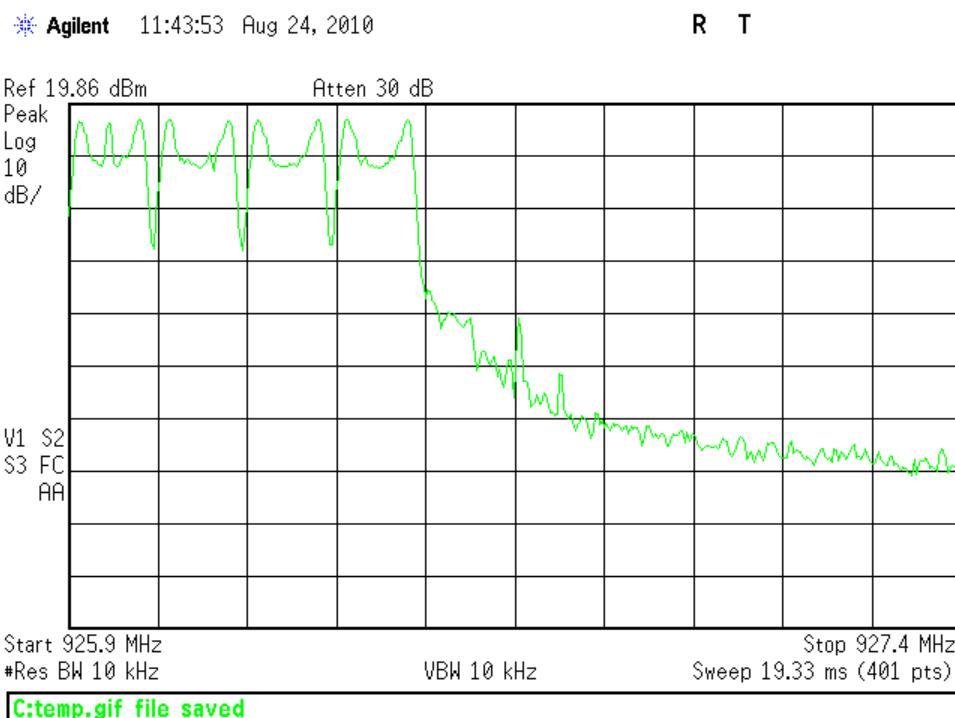
Testing Cert. No. 1627-01

Number of Hopping Channels

"For frequency hopping systems operating in the 902-928MHz band: if the 20dB bandwidth of the hopping channel is less than 250kHz, the system shall use at least 50 hopping frequencies." [15.247(a)(1)(i)]

Plots

The system employs 64 hopping frequencies



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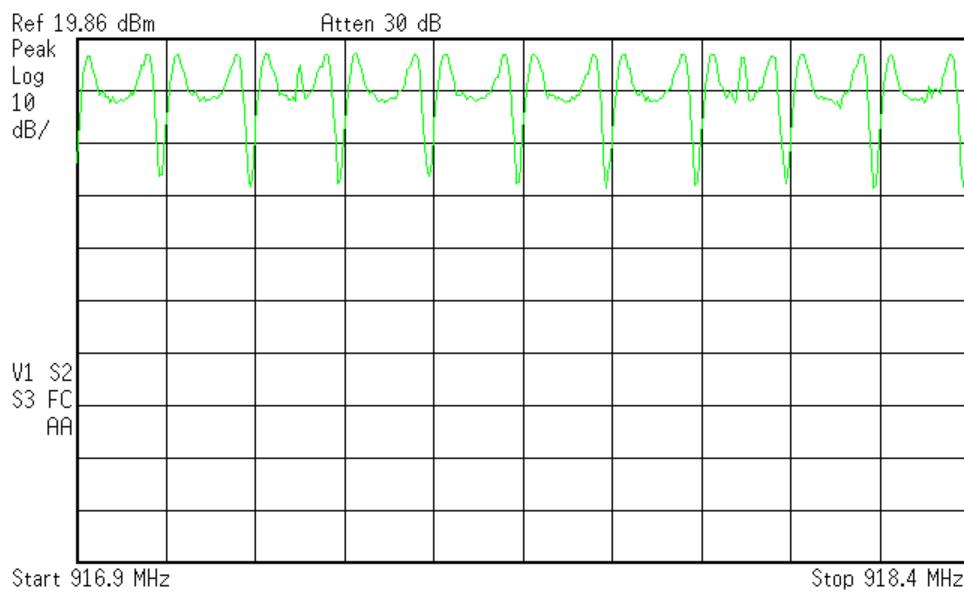


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ACREDITED
Testing Cert. No. 1627-01

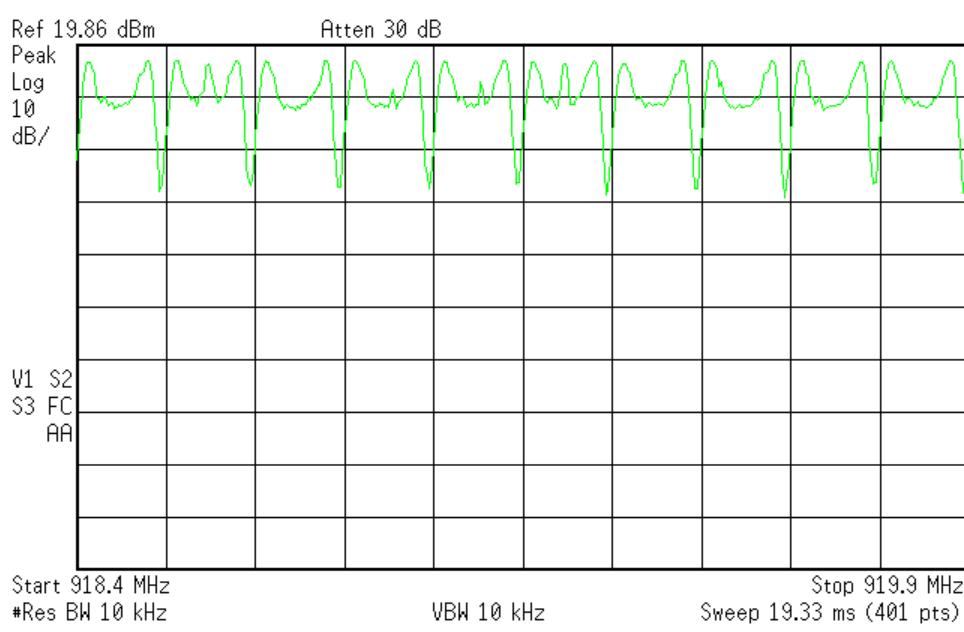
Agilent 11:28:58 Aug 24, 2010

R T



Agilent 11:30:41 Aug 24, 2010

R T



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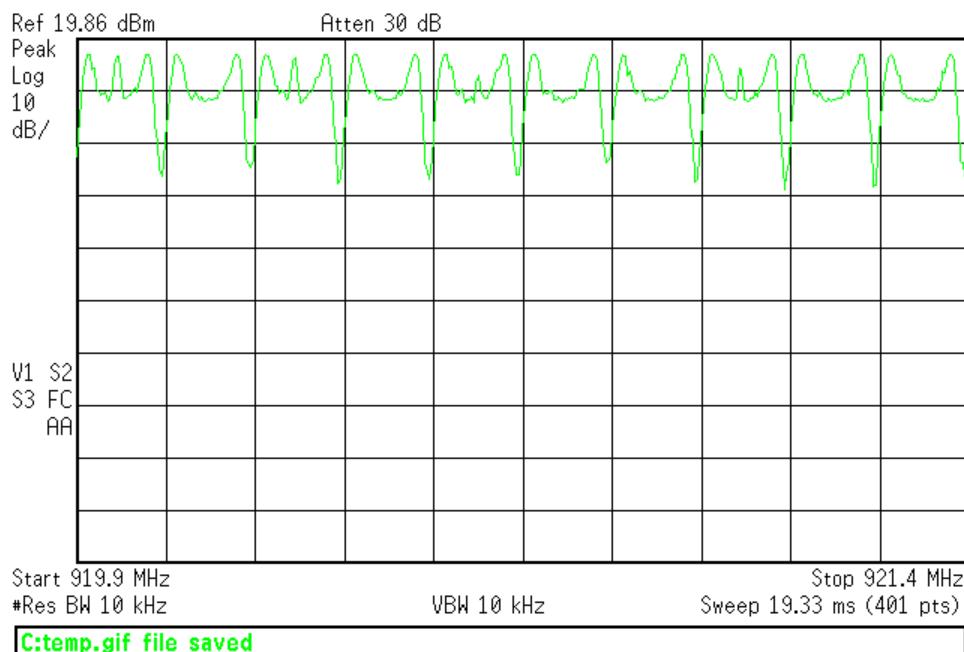


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ACREDITED
Testing Cert. No. 1627-01

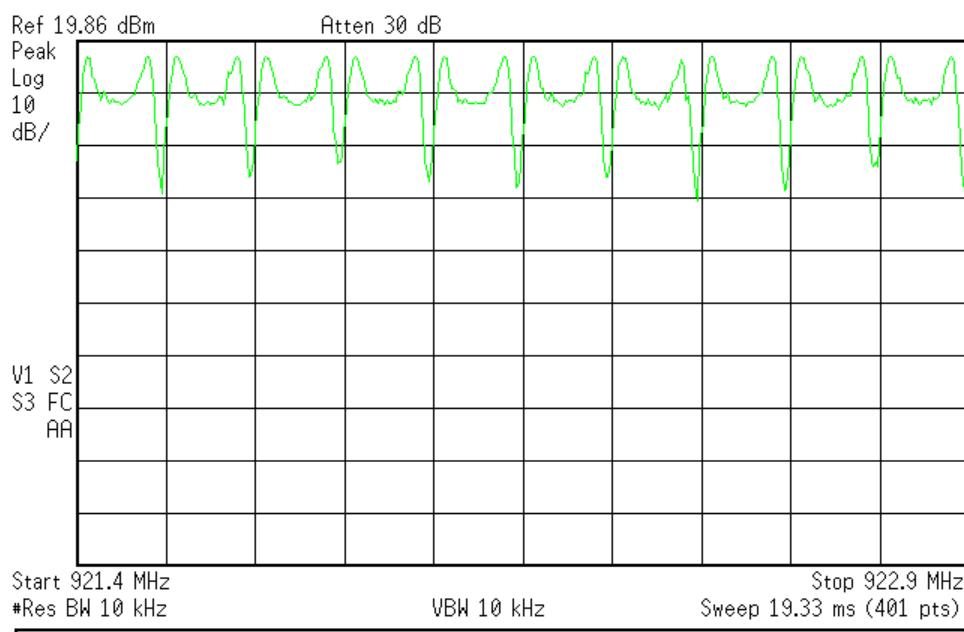
Agilent 11:34:56 Aug 24, 2010

R T



Agilent 11:36:23 Aug 24, 2010

R T



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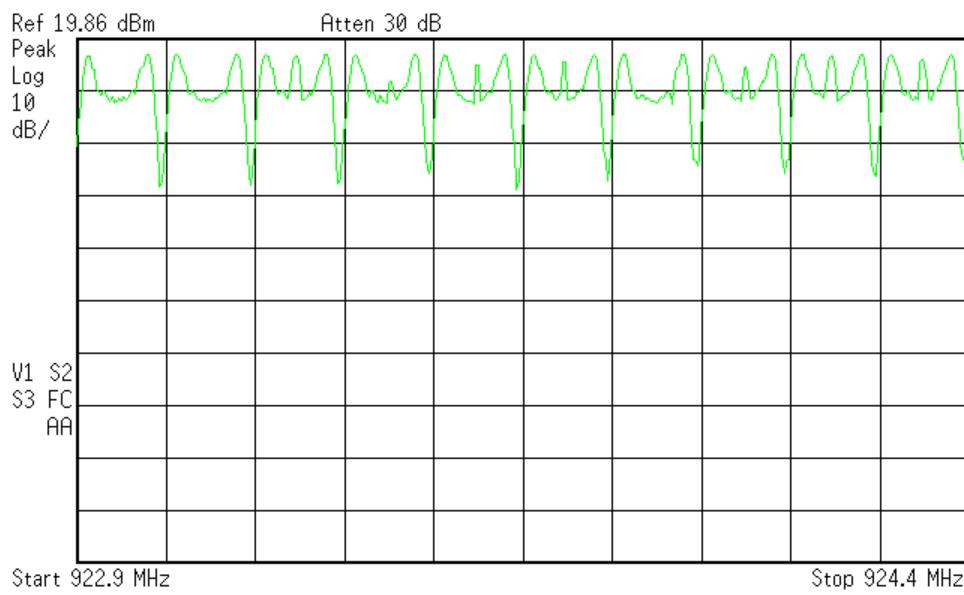


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ACREDITED
Testing Cert. No. 1627-01

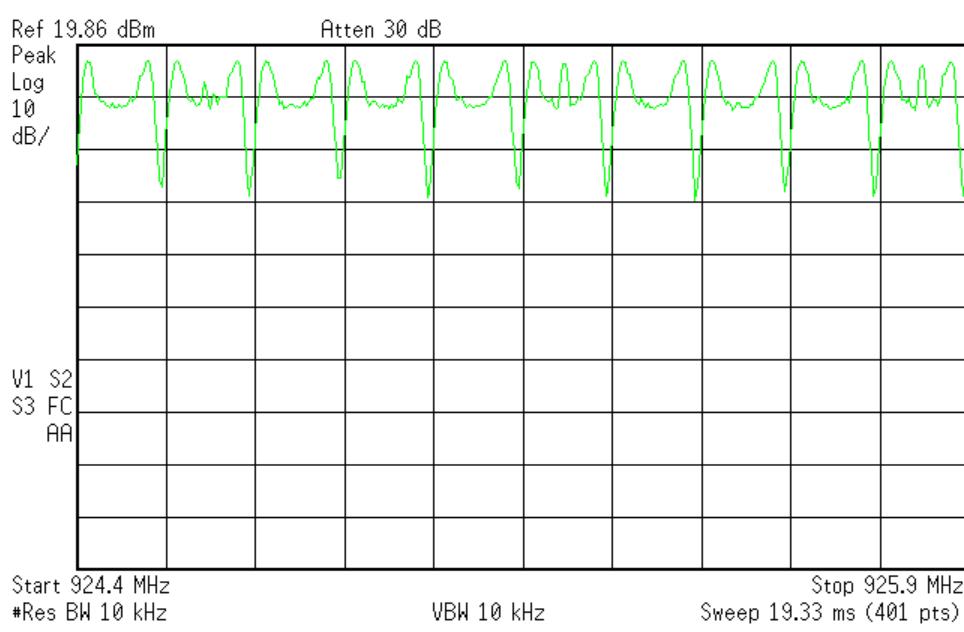
Agilent 11:38:25 Aug 24, 2010

R T



Agilent 11:42:01 Aug 24, 2010

R T



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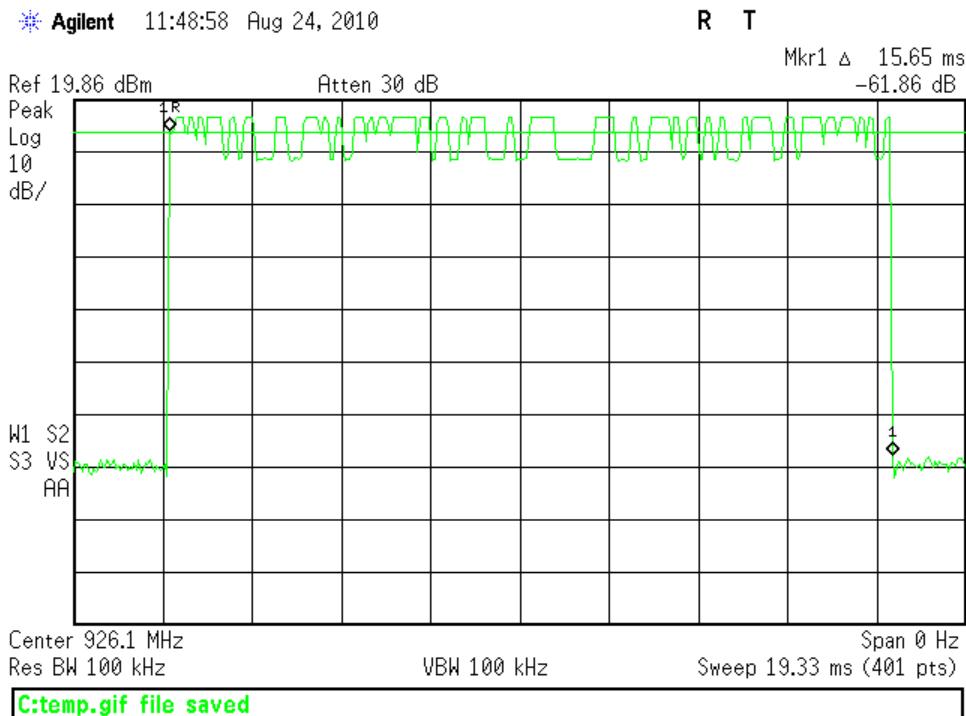


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Frequency Hopping Timing Requirements

"For a system using a 20dB bandwidth of less than 250kHz ... the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period."
[15.247(a)(1)(i)]



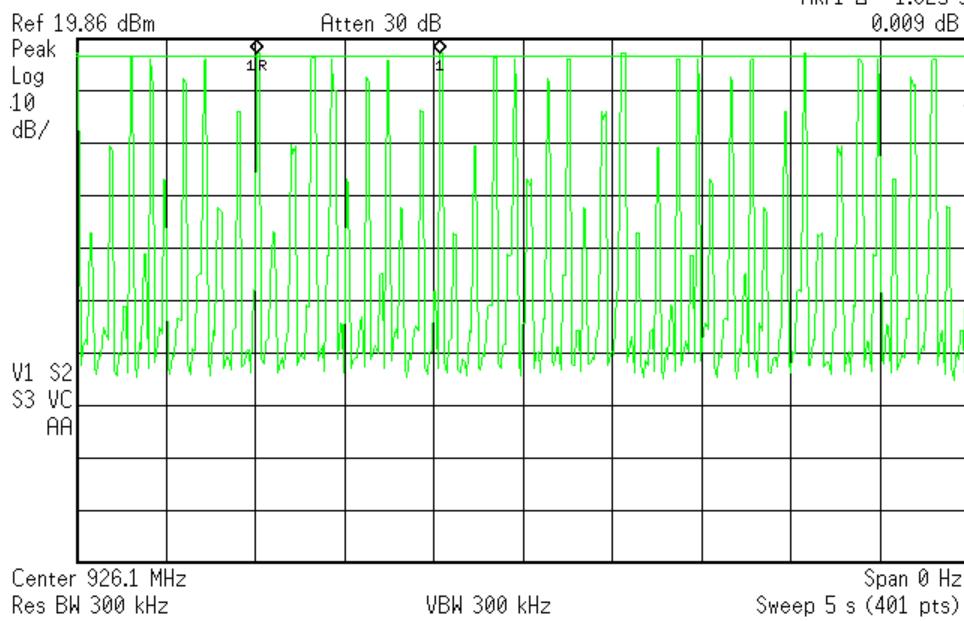
The duration for a single transmission is 15.65ms

The bandwidth for measuring was reduced to try and clarify the transmissions. The pulses that are above the display line are of the frequency under measurement.



Agilent 10:38:03 Aug 24, 2010

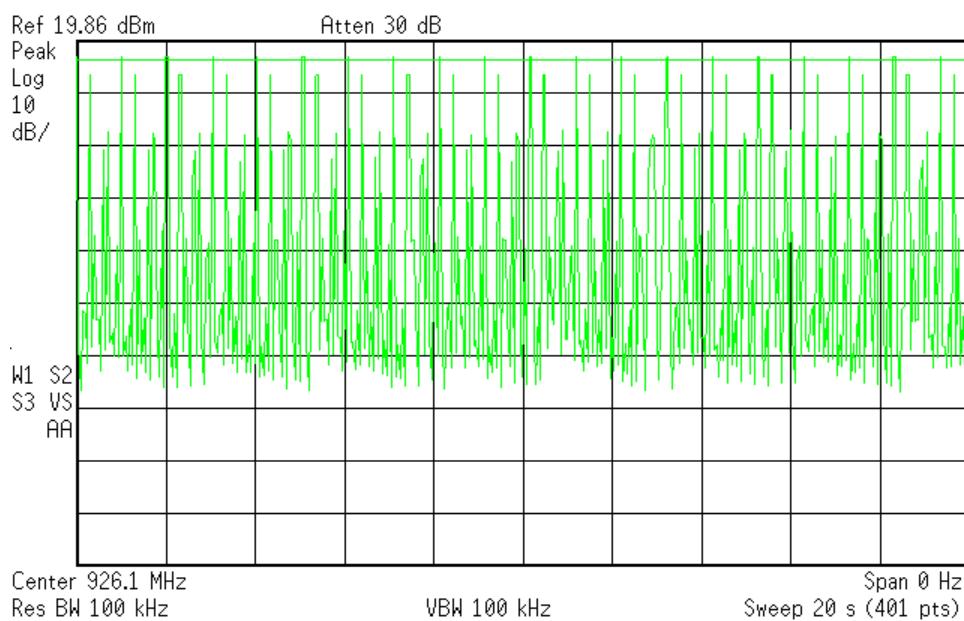
R T

Mkr1 Δ 1.025 s
0.009 dB

In a 5 second window, 5 pulses occur
 In 20 seconds 20 pulses would occur

Agilent 11:53:56 Aug 24, 2010

R T



In a 20 second window, the transmission occurs 20 times.
 $15.65\text{ms} \times 20 = 313\text{ms} = 0.313\text{seconds}$



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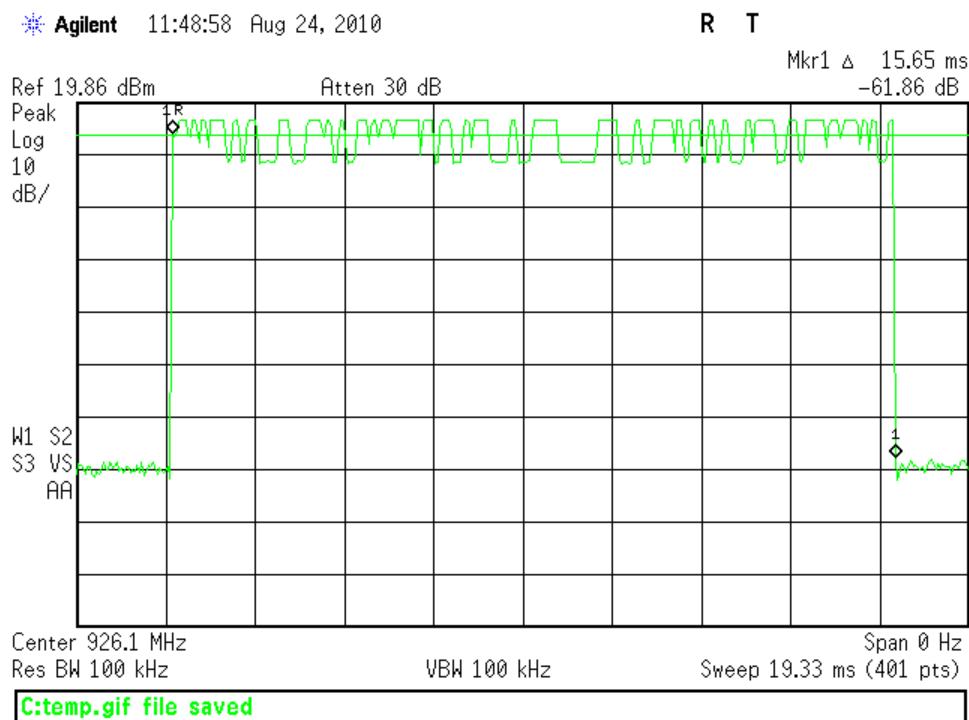


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Duty Cycle Correction Calculation

PLOTS



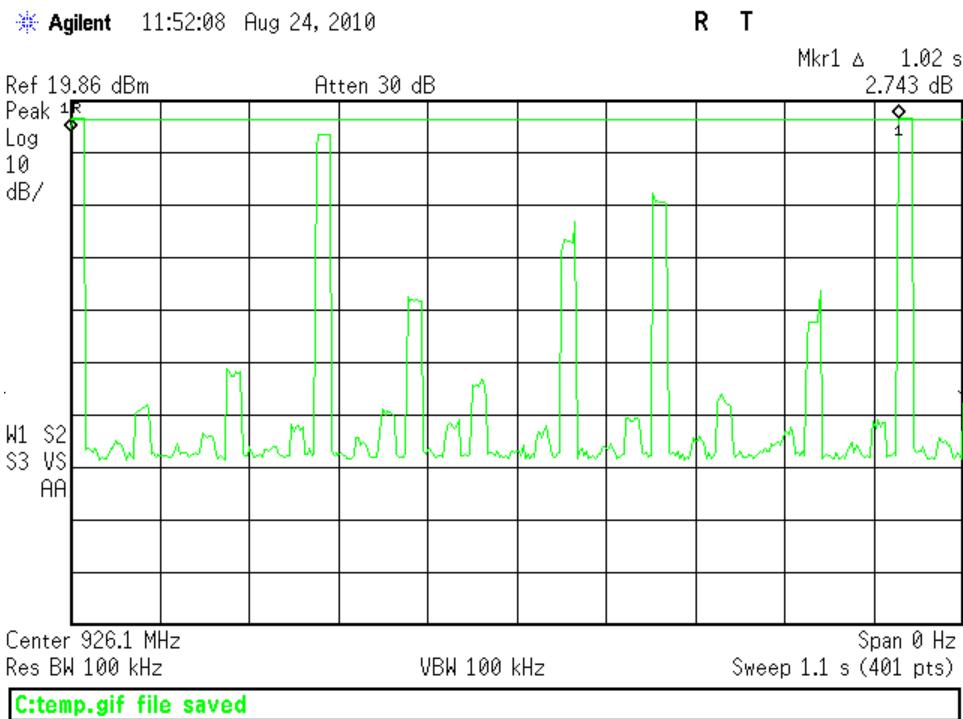
The duration for a single transmission is 15.65ms



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The system takes 1.02 seconds to repeat transmitting frequency.
In 100ms, only a single transmission occurs

DCCF = $20 \times \log (15.65/100)$
DCCF = -16.1097dB



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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

Radiated Emissions Table												Work Order: K1062												
Date: 25-Aug-10	Company: Dog Watch										EUT Operating Voltage/Frequency: Battery Powered													
Engineer: Matthew Burman	EUT Desc: Big Leash																							
Temp: 24.3°C	Humidity: 43%																							
Pressure: 998mBar																								
Frequency Range: 30-1000MHz												Measurement Distance: 3 m												
Notes: No emissions found																								
Noise Floor																								
Antenna	Frequency	Reading	Preamp	Antenna	Cable	Adjusted	---			FCC Class B														
Polarization	(MHz)	(dBuV)	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result												
(H / V)			(dB)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(Pass/Fail)	(dBuV/m)	(dB)	(Pass/Fail)												
v	117.0	27.0	21.8	12.7	1.9	19.8	---	---	---	43.5	-23.7	Pass												
v	250.0	37.0	21.7	13.1	3.3	31.7	---	---	---	46.0	-14.3	Pass												
v	333.0	20.0	21.3	14.9	4.2	17.8	---	---	---	46.0	-28.2	Pass												
v	400.0	20.0	21.5	16.5	4.7	19.7	---	---	---	46.0	-26.3	Pass												
v	610.0	18.0	20.6	19.5	5.5	22.4	---	---	---	46.0	-23.6	Pass												
v	970.0	19.0	20.6	22.5	6.9	27.8	---	---	---	54.0	-26.2	Pass												
Table Result: Pass by -14.3 dB												Worst Freq: 250.0 MHz												
Test Site: 1DCC-OATS-3M-I	Cable 1: EMIR-11				Cable 2: ---				Cable 3: ---															
Analyzer: Gold	Preamp: Red				Antenna: Green				Preselector: ---															

Rev: 31-Aug-2010

Spectrum Analyzers / Receivers /Preselectors			Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold			100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	9-Apr-2011
Radiated Emissions Sites			FCC Code	IC Code	VCCI Code				
1DCC-OATS-3M-I			719150	2762A-8	R-3109				
Preamps /Couplers Attenuators / Filters			Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Red			0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	II	6-Apr-2011
Antennas			Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Green Bilog			30-2000MHz	CBL6112B	Chase	2742	620	I	17-Dec-2010
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due	
Temp/Humidity/Atm. Pressure Gauge			7400 Perception II	Davis	N/A	965	I	6-Apr-2011	
1DCC-OATS-3M-I Thermohygrometer			35519-044	Control Company	72457635	1334	II	II	18-Aug-2011

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

Radiated Emissions Table												Work Order: K1062												
Date: 25-Aug-10	Company: Dog Watch										EUT Operating Voltage/Frequency: Battery Powered													
Engineer: Matthew Burman	EUT Desc: Big Leash - collar																							
Temp: 24.3°C	Humidity: 43%																							
Pressure: 998mBar																								
Frequency Range: 1-7GHz												Measurement Distance: 3 m												
Notes: Duty Cycle Correction Factor = 16.1dB																								
Antenna	Frequency	Peak Reading	Average Reading	Preamp	Antenna	Filter	Cable	Adjusted Peak Reading	Adjusted Avg Reading	FCC Class B High Frequency - Peak		FCC Class B High Frequency - Average												
Polarization	(MHz)	(dBuV)	(dBuV)	Factor	Factor	Factor	Factor	(dBuV/m)	(dBuV/m)	Limit	Margin	Limit	Margin	Result										
(H / V)				(dB)	(dB/m)	(dB)	(dB)			(dBuV/m)	(dB)	(dBuV/m)	(dB)	(Pass/Fail)										
h + collar	2750.99	56.11	40.0	22.2	29.2	0.5	2.2	65.8	49.7	74.0	-8.2	54.0	-4.3	Pass										
h - collar	2760.99	45.76	29.7	22.2	29.3	0.5	2.2	55.6	39.5	74.0	-18.4	54.0	-14.6	Pass										
v - collar	3667.965	44.34	28.2	21.5	31.7	0.5	2.5	57.5	41.4	74.0	-16.5	54.0	-12.6	Pass										
v - collar	4584.965	44.12	28.0	20.8	32.5	0.5	3.0	59.3	43.2	74.0	-14.7	54.0	-10.8	Pass										
v - collar	6418.965	39.58	23.5	20.4	34.5	0.5	3.9	58.1	42.0	74.0	-15.9	54.0	-12.0	Pass										
Table Result: Pass by -4.3 dB												Worst Freq: 2750.99 MHz												
Test Site: 1DCC-OATS-3M-I	Cable 1: EMIR-HIGH-13				High Pass Filter: Asset #1311, #1310				Cable 3: ---															
Analyzer: Gold	Preamp: Brown				Antenna: Yellow Horn				Preselector: ---															

Rev: 31-Aug-2010

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	9-Apr-2011
Radiated Emissions Sites	1DCC-OATS-3M-I	FCC Code 719150	IC Code 2762A-8	VCCI Code R-3109			Cat II	Calibration Due 7-Jul-2011
Preamps /Couplers Attenuators / Filters	Brown	Range 1-18GHz	MN CS	Mfr CS	SN N/A	Asset 1523	Cat II	Calibration Due 30-Jul-2011
High Pass Filter	0.03-14.5 GHz	11SH10-3000/T9000-0/0	K&L	1	1311	II	22-Dec-2011	
High Pass Filter	0.03-6.5 GHz	11SH10-1000/T3000-0/0	K&L	1	1310	II	22-Dec-2011	
Antennas	Range 1-18GHz	MN 3115	Mfr EMCO	SN 9608-4898	Asset 37	Cat I	Calibration Due 27-May-2011	
Meteorological Meters	Temp./Humidity/Atm. Pressure Gauge	MN 7400 Perception II	Mfr Davis	SN N/A	Asset 965	Cat I	Calibration Due 6-Apr-2011	
1DCC-OATS-3M-I Thermohygrometer		35519-044	Control Company	72457635	1334	II	18-Aug-2011	

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

Spurious Emissions									Work Order: K1062			
Date: 25-Aug-10	Company: Dog Watch											
Engineer: Matthew Burman	EUT Desc: Big Leash - collar											
Temp: 24.3°C	Humidity: 43%											
		Pressure: 998mBar							EUT Operating Voltage/Frequency: Battery Powered			
									Measurement Distance: 1 m			
Notes: Duty Cycle Correction Factor = 16.11dB												
Antennas	Frequency	Peak Reading	Average Reading	Prefamp Factor	Antenna Factor	Filter Factor	Cable Factor	Adjusted Peak Reading	FCC Class B High Frequency - Peak			
Polarization (H / V)	(MHz)	(dBuV)	(dBuV)	(dB)	(dB/m)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)	
V - collar	7375.965	49.91	33.8	20.3	37.4	0.6	4.1	71.7	55.6	83.5	-11.8	Pass
V - collar	8252.99	38.18	22.1	20.1	38.5	0.7	4.1	61.4	45.3	83.5	-22.1	Pass
V - collar	9169.84	31.52	15.4	19.2	38.8	0.8	4.2	56.1	40.0	83.5	-27.4	Pass
Table Result: Pass by -7.9 dB									Worst Freq: 7375.965 MHz			
Test Site: 1DCC-OATS-3M-I	Cable 1: EMIR-HIGH-13								Cable 3: ...			
Analyzer: Gold	Preamp: Brown								Preselector: ...			
High Pass Filter: Asset #0817												
Antenna: Yellow Horn												

Rev: 31-Aug-2010

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	9-Apr-2011
Radiated Emissions Sites	1DCC-OATS-3M-I	FCC Code 719150	IC Code 2762A-8	VCCI Code R-3109			Cat II	Calibration Due 7-Jul-2011
Preamps /Couplers Attenuators / Filters	Brown	Range 1-18GHz	MN CS	Mfr CS	SN N/A	Asset 1523	Cat II	Calibration Due 30-Jul-2011
High Pass Filter	0.03-20 GHz	SPA-F-55204	K&L	36	817	II	22-Dec-2011	
Antennas	Range 1-18GHz	MN 3115	Mfr EMCO	SN 9608-4898	Asset 37	Cat I	Calibration Due 27-May-2011	
Meteorological Meters	Temp./Humidity/Atm. Pressure Gauge	MN 7400 Perception II	Mfr Davis	SN N/A	Asset 965	Cat I	Calibration Due 6-Apr-2011	
1DCC-OATS-3M-I Thermohygrometer		35519-044	Control Company	72457635	1334	II	18-Aug-2011	

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

Spurious Emissions									Work Order: K1062		
Date: 25-Aug-10	Company: Dog Watch										
Engineer: Matthew Burman	EUT Desc: Big Leash										
Temp: 24.3°C	Humidity: 43%										
		Pressure: 998mBar							EUT Operating Voltage/Frequency: Battery Powered		
									Measurement Distance: 1 m		
Notes: Duty Cycle Correction Factor = 16.48dB Receive Mode											
Antennas	Frequency	Peak Reading	Average Reading	Prefamp Factor	Antenna Factor	Filter Factor	Cable Factor	Adjusted Peak Reading	FCC Class B High Frequency - Peak		
Polarization (H / V)	(MHz)	(dBuV)	(dBuV)	(dB)	(dB/m)	(dB)	(dB)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)
no emissions found											
Test Site: 1DCC-OATS-3M-I	Cable 1: EMIR-HIGH-13								Cable 3: ...		
Analyzer: Gold	Preamp: Brown								Preselector: ...		
High Pass Filter: ...											
Antenna: Yellow Horn											

Rev: 31-Aug-2010

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Gold		100Hz-26.5 GHz	E4407B	Agilent	MY45113816	1284	I	9-Apr-2011
Radiated Emissions Sites	1DCC-OATS-3M-I	FCC Code 719150	IC Code 2762A-8	VCCI Code R-3109			Cat II	Calibration Due 7-Jul-2011
Preamps /Couplers Attenuators / Filters	Brown	Range 1-18GHz	MN CS	Mfr CS	SN N/A	Asset 1523	Cat II	Calibration Due 30-Jul-2011
Antennas	Yellow Horn	Range 1-18GHz	MN 3115	Mfr EMCO	SN 9608-4898	Asset 37	Cat I	Calibration Due 27-May-2011
Meteorological Meters			MN 7400 Perception II 35519-044	Mfr Davis Control Company	SN N/A 72457635	Asset 965 1334	Cat I II	Calibration Due 6-Apr-2011 18-Aug-2011

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

Radiated Emissions Table

Date: 27-Sep-10	Company: Dogwatch, Inc.	Work Order: K1062															
Engineer: Matthew Burman	EUT Desc: Big Leash - Collar	EUT Operating Voltage/Frequency: 120Vac 60Hz															
Temp: 25.6°C	Humidity: 36%	Pressure: 998mBar															
Frequency Range: 30-1000MHz																	
Notes: Charging Mode																	
Antenna Polarization (H / V)	Frequency (Mhz)	Reading (dBuV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBuV/m)	---	---	---	Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBuV/m)	Margin (dB)	Result (Pass/Fail)		
v	51.825	38.2	22.6	8.3	0.5	24.4	---	---	---	40.0	-15.6	Pass					
v	66.4	33.7	22.6	8.3	0.5	19.9	---	---	---	40.0	-20.1	Pass					
h	124.6	27.8	22.6	14.4	0.7	20.3	---	---	---	43.5	-23.3	Pass					
v	175.5	31.3	22.6	11.7	0.9	21.3	---	---	---	43.5	-22.2	Pass					
h	466.5	30.1	22.6	17.4	1.3	26.2	---	---	---	46.0	-19.8	Pass					
h	515.0	26.4	22.2	18.1	1.4	23.7	---	---	---	46.0	-22.3	Pass					
Table Result: Pass by -15.6 dB			Worst Freq: 51.825 MHz														
Test Site: EMI Chamber 2	Cable 1: Asset #1506	Cable 2: Asset #1508													Cable 3: ---		
Analyzer: Asset #1328	Preamp: Blue	Antenna: Red-White													Preselector: ---		

Rev: 23-Sep-2010

Spectrum Analyzers / Receivers /Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due
SA EMI Chamber (1328)		9kHz-13.2 GHz	E4405B	Agilent	MY44210241	1328	I	16-Dec-2010
Radiated Emissions Sites	EMI Chamber 2	FCC Code 719150	IC Code 2762A-7	VCCI Code R-3033, G-107			Cat I	Calibration Due 15-Feb-2011
Preamps /Couplers Attenuators / Filters	Blue	Range 0.009-2000MHz	MN ZFL-1000-LN	Mfr CS	SN N/A	Asset 759	Cat II	Calibration Due 6-Apr-2011
Antennas	Red-White Bilog	Range 30-2000MHz	MN JB1	Mfr Sunol	SN A091604-1	Asset 1105	Cat I	Calibration Due 17-Dec-2010
Meteorological Meters			MN 7400 Perception II 35519-044	Mfr Davis Control Company	SN N/A 72457639	Asset 965 1347	Cat I II	Calibration Due 6-Apr-2011 18-Aug-2011
Cables		Range		Mfr			Cat	Calibration Due
Asset #1506		9kHz - 18GHz		Florida RF			II	16-Aug-2011
Asset #1508		9kHz - 26.5GHz		Florida RF			II	20-Apr-2011

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Conducted Spurious Emissions

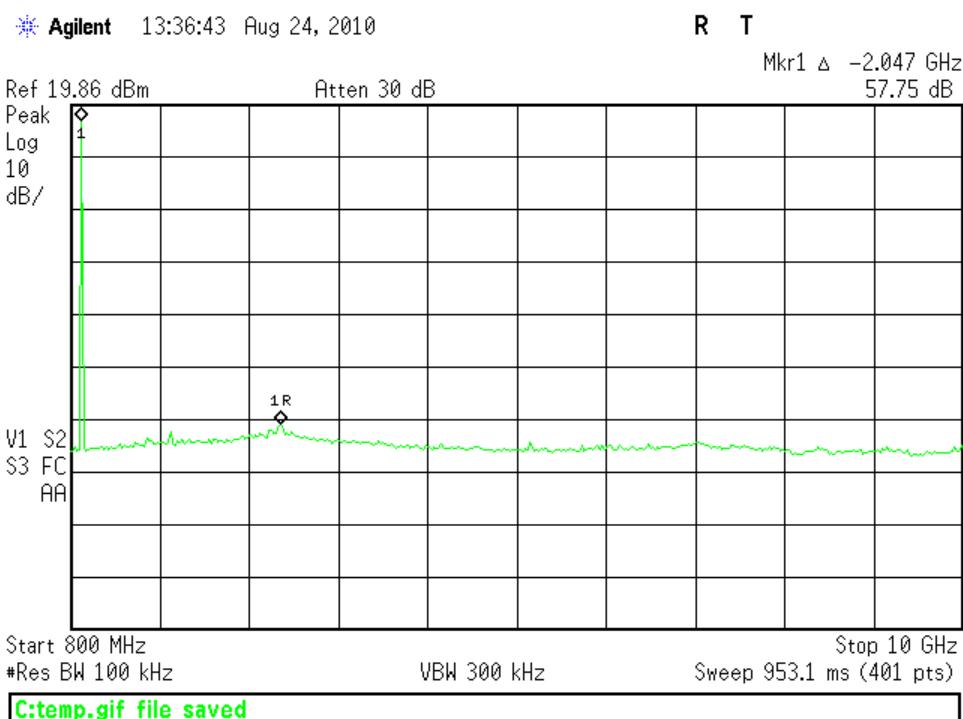
LIMITS

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)]

MEASUREMENTS / RESULTS

Transmit



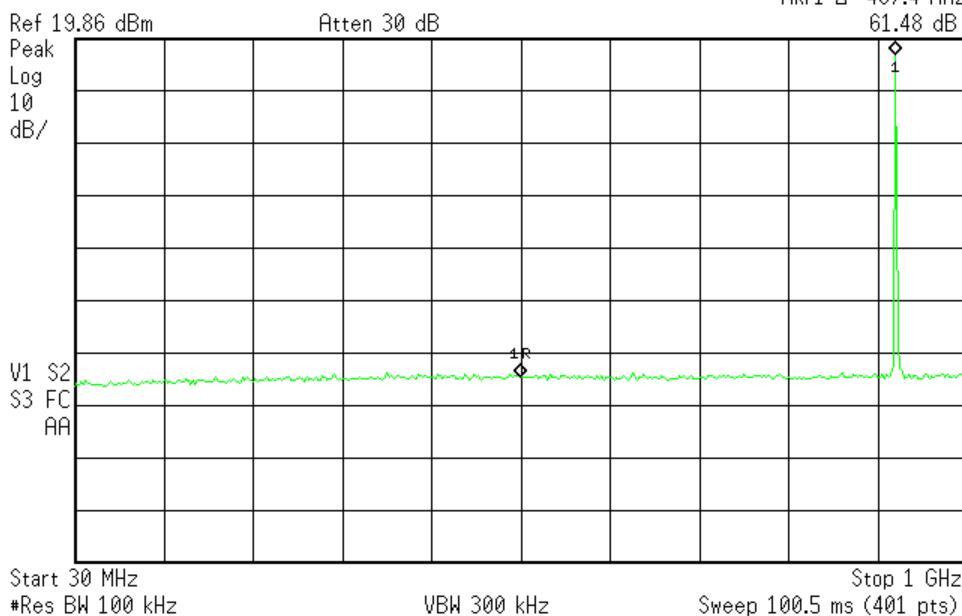
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page 25 of 35

Agilent 13:34:40 Aug 24, 2010

R T

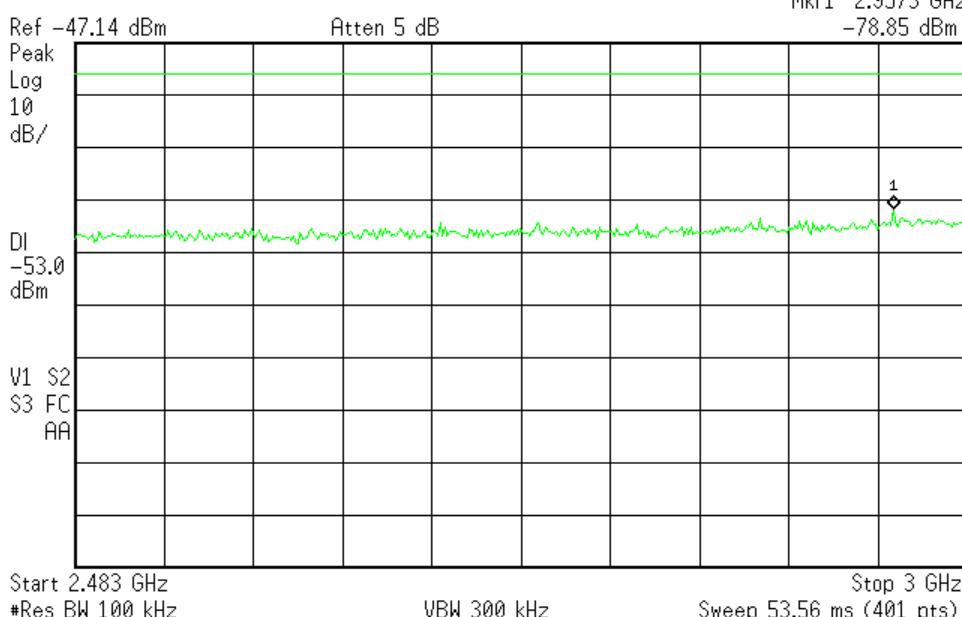
Mkr1 Δ 407.4 MHz
61.48 dB

C:\temp.gif file saved

Receive

Agilent 15:27:44 Aug 24, 2010

R T

Mkr1 2.9573 GHz
-78.85 dBm

C:\temp.gif file saved



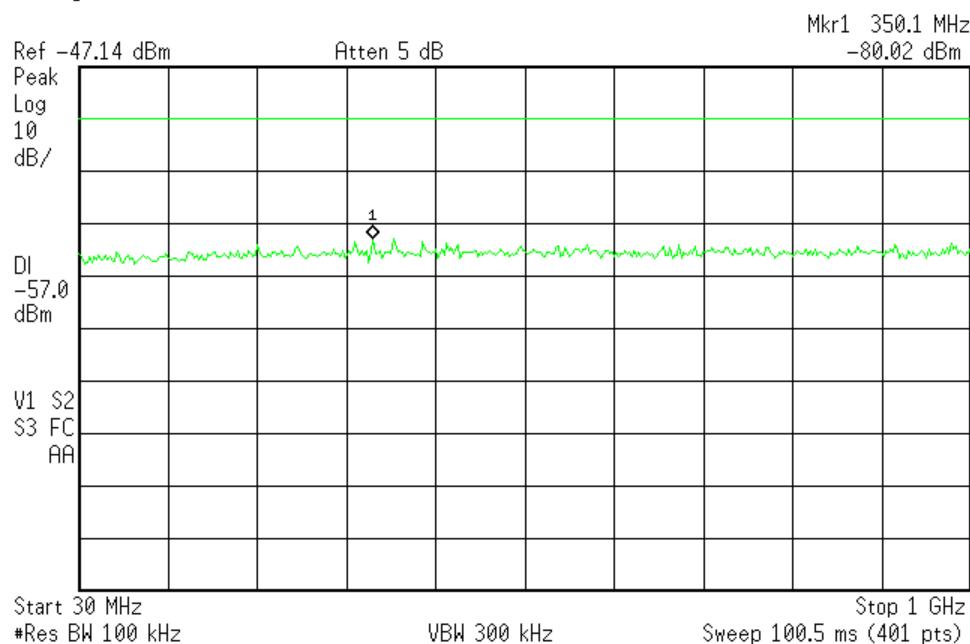
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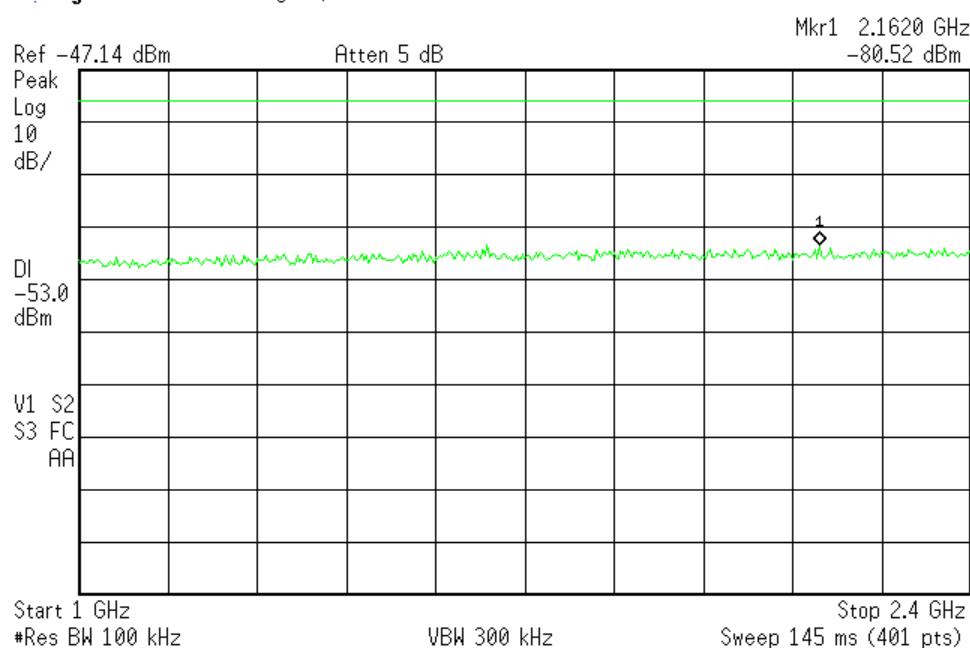
page 26 of 35

Agilent 15:28:56 Aug 24, 2010

R T

**Agilent** 15:24:05 Aug 24, 2010

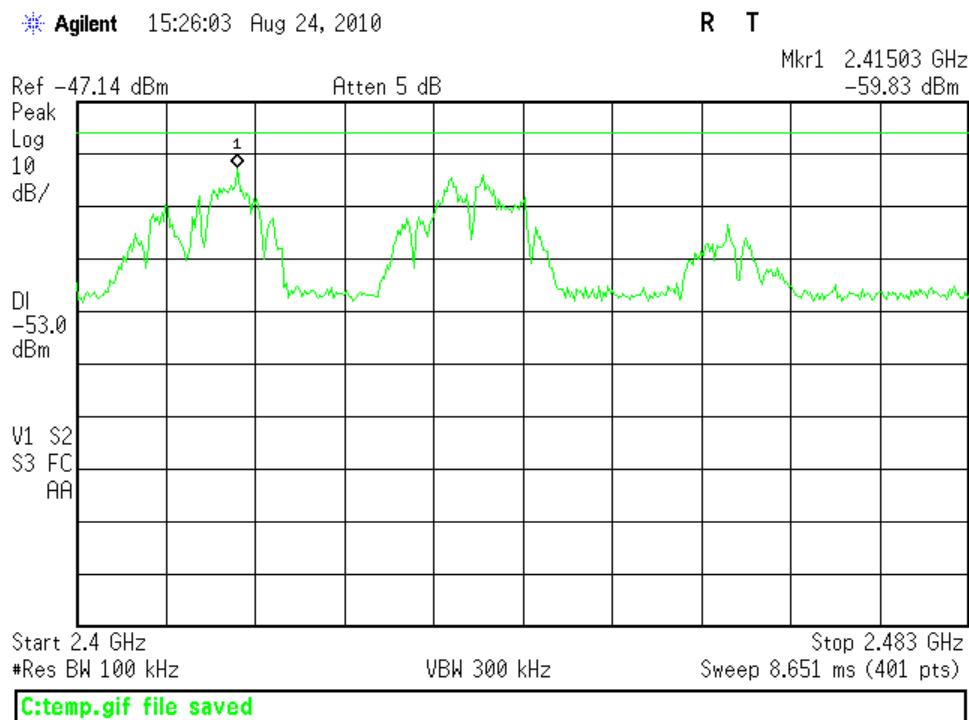
R T



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Ambient at 2.4GHz



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Testing Cert. No. 1627-01

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

AC Mains Conducted Emissions

Date: 27-Sep-10		Company: Dogwatch, Inc.		Work Order: K1062						
Engineer: Matthew Burman		EUT Desc: BigLeash - Collar		Test Site: CEMI1						
Temp: 23.8°C		Humidity: 46%		Pressure: 998mBar						
Notes: Charging Mode										
Measurement Device: Red LISN		EUT Operating Voltage/Frequency: 120Vac 60Hz								
Range: 0.15-30MHz		Spectrum Analyzer: Yellow								
Frequency (MHz)	Q.P. Readings		Ave. Readings	Impedance Factor	FCC/CISPR B		FCC/CISPR B		Overall Result (Pass/Fail)	
	QP1 (dB μ V)	QP2 (dB μ V)	AV1 (dB μ V)	AV2 (dB μ V)	(dB)	qp Limit (dB μ V)	qp Margin dB	AVE Limit (dB μ V)	AVE Margin dB	
0.18	21.8	22.6	15.0	11.1	20.2	64.4	-21.6	54.4	-19.3	Pass
0.30	23.3	25.1	17.6	14.0	20.1	60.2	-15.0	50.2	-12.5	Pass
0.60	21.8	17.1	16.2	10.8	20.1	56.0	-14.1	46.0	-9.7	Pass
0.66	23.3	20.3	17.6	11.8	20.1	56.0	-12.6	46.0	-8.3	Pass
0.96	21.7	17.9	16.1	9.7	20.1	56.0	-14.2	46.0	-9.8	Pass
2.34	22.7	14.3	15.9	8.0	20.1	56.0	-13.2	46.0	-10.0	Pass

Table Result: Pass by -8.30 dB

Worst Freq: 0.66 MHz

Rev: 23-Sep-2010

Spectrum Analyzers / Receivers /Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Yellow	9kHz-2.9GHz	8594E	Agilent	3523A01958	100	I	10-Feb-2011
LISNs/Measurement Probes	Range	MN	Mfr	SN	Asset	Cat	Calibration Due
Red LISN	9kHz-50MHz	8012-50-R-24-BNC	Solar	956348	753	I	9-Jul-2011
Conducted Test Sites (Mains / Telco)	FCC Code	VCCI Code			Cat	Calibration Due	
CEMI 1	719150	C-3360, T-1575			III	NA	
Meteorological Meters	MN	Mfr	SN	Asset	Cat	Calibration Due	
Temp./Humidity/Atm. Pressure Gauge CEMI1 Thermohygrometer	7400 Perception II 35519-044	Davis Control Company	N/A 72457738	965 1335	I II	6-Apr-2011 18-Aug-2011	
Cables	Range	Mfr		Cat	Calibration Due		
CEMI-02	9kHz - 2GHz	C-S		II	6-Apr-2011		

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Testing Cert. No. 1627-01

Occupied Bandwidth

REQUIREMENT

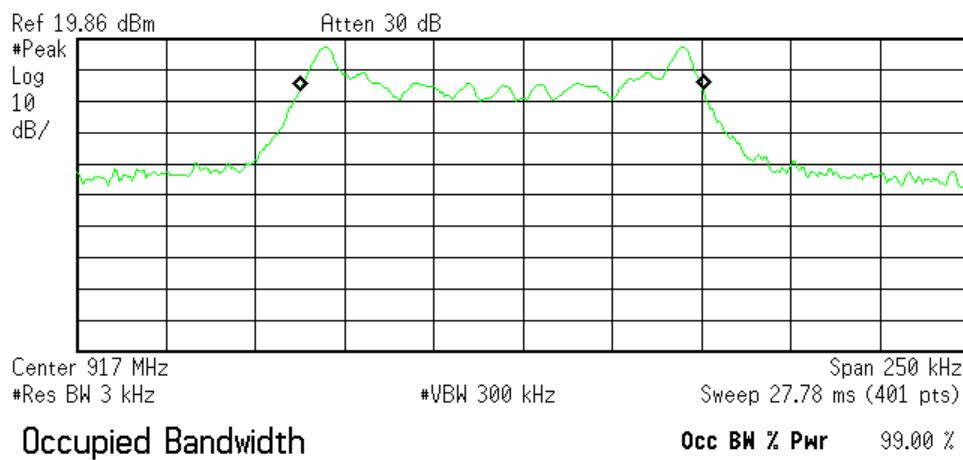
When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]

Low Channel

Agilent

13:24:41 Aug 24, 2010

R T



Transmit Freq Error -6.084 kHz
x dB Bandwidth 118.911 kHz

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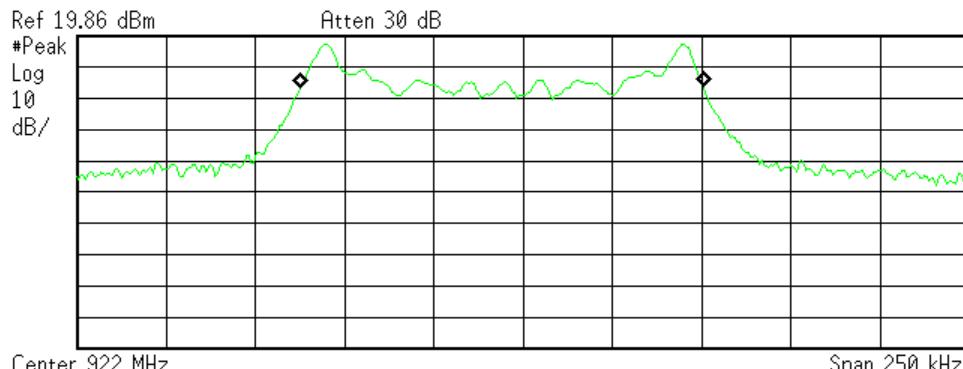
page 30 of 35

Testing Cert. No. 1627-01

Mid Channel

Agilent 13:26:33 Aug 24, 2010

R T



Occupied Bandwidth
112.8348 kHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

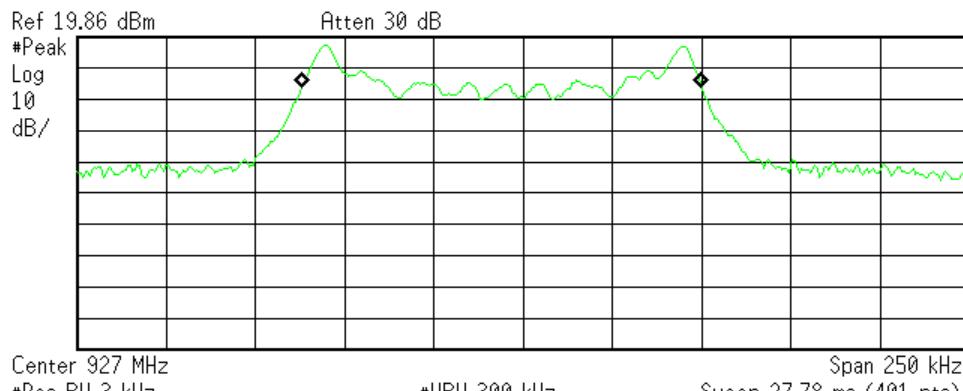
Transmit Freq Error -5.919 kHz
x dB Bandwidth 117.965 kHz

C:\temp.gif file saved

High Channel

Agilent 13:28:29 Aug 24, 2010

R T



Occupied Bandwidth
112.2620 kHz

Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error -5.958 kHz
x dB Bandwidth 117.448 kHz

C:\temp.gif file saved



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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		



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 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.



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Testing Cert. No. 1627-01

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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