

Test Report

Report No	H0825-1
Client	InterSense, Inc
Address	36 Crosby Drive Bedford, MA 01730
Phone	781-541-7616
Items tested FCC ID IC ID FRN	IS900 Micro-Wand TK5-910EWWD 6414A-910EWWD 0013917356
Equipment Code Emission Designator	DTS 2M70G1D
FCC/IC Rule Parts	47 CFR 15.247, RSS 210 issue 7 and RSS GEN issue 2
Test Dates	July 20 th , 26 th , 30 th , and 31 st 2007
Results	As detailed within this report
Prepared by	David Harris – Test Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date	8/30/07
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 31 of this report.

Curtis-Straus LLC is accredited to ISO/IEC 17025 by A2LA for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation. See our scope of accreditation at the end of this test report. Any opinions or interpretations expressed in this report are outside the scope of our A2LA accreditation as A2LA only accredits testing.

Testing Cert. No. 1627-01 Testing Cert. No. 1627-01



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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 15.247 and RSS-210. The product is the IS900 Micro-Wand MN 100-91000-EWWD. It is a transceiver 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 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 does not have an antenna gain <6dBi. Therefore there is no limit reduction. [15.247 (b) (4)]

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

The EUT operating voltage is 3.7Vdc powered by a battery. A fresh battery was used for testing.

The environmental conditions are shown below.

Date	Temperature	Humidity
7/20/07	24.8°C	41%
7/26/07	25.1°C	38%
7/30/07	24.3°C	43%
7/31/07	24.2°C	41%

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 August 13, 2007



Product Tested - Configuration Documentation

EUT Configuration

Work Order: H0825

Company: InterSense, Inc Company Address: 36 Crosby Drive

Bedford, MA 01730

Contact: Bob Hommel

EUT MN SN

100-91000-EWWD EWW-0707253-A

EUT Description: IS900 Micro-Wand

EUT Max Frequency: 2.480GHz

Support Equipment: MN SN

Compaq Presario Laptop 1670 1V92CGX3P4TS
Serial to RS232 Dongle N/A NA
Dongle Supply (9Vdc) KSAFE0900275T1M2 NA

Receiver 100-IS9MW-RX16 I9W-0707260-A

EUT Cables: Qty Shielded? Length Ferrites

None

Unpopulated EUT Ports: Qty Reason

None

Software / Operating Mode Description:

EUT uses DSS in the 2.4 to 2.48GHz range. 16 channels can be selected at 5MHz spacing. No frequency hopping is implemented. EUT uses three different programs. DeviceTool allows you to change channels, FCC_Wireless puts the EUT in normal pulse mode operation. FCC_Direct.exe allows you to put the EUT in continuous Tx mode, with or without modulation.

Statement of Conformity

The IS900 Micro-Wand has been tested and found to conform to the following parts of 47 CFR RSS-GEN, 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 hardwired to 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

Bandwidth

LIMIT

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

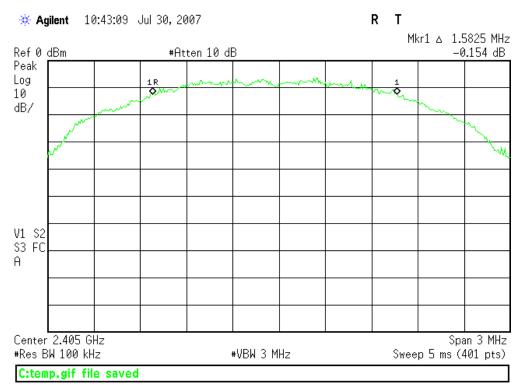
MEASUREMENTS / RESULTS

RBW = 100kHzVBW = 3MHz

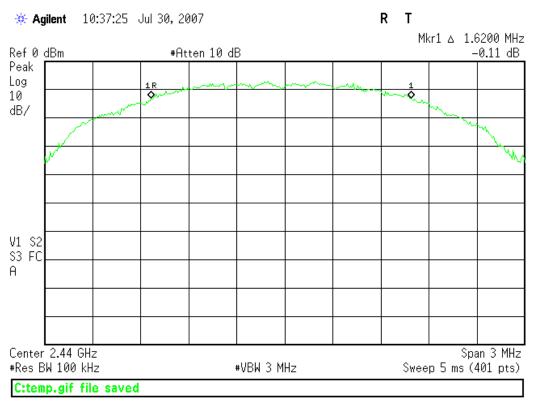
Measured 6dB bandwidth = Channel 0 - 1.5825MHz Channel 7 – 1.6200MHz Channel 15 - 1.5900MHz

All readings exceed the limit of 500kHz therefore the EUT passes the requirement.

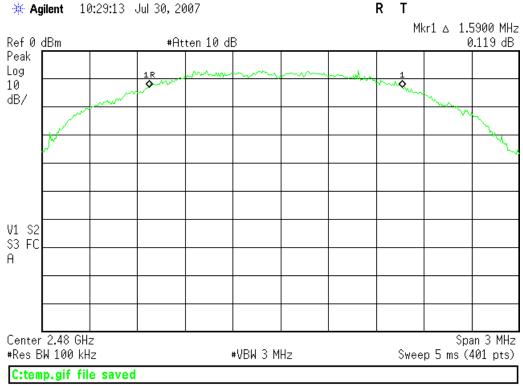
PLOTS



Channel 0 6dB Bandwidth



Channel 7 6dB Bandwidth



Channel 15 6dB Bandwidth



Peak Power

LIMIT

Conducted Output Power at the antenna port 1 Watt [15.247(b) (3)]

MEASUREMENTS / RESULTS

Cable loss factored into Spectrum Analyzer Reading.

RBW = 3MHz

VBW = 3MHz

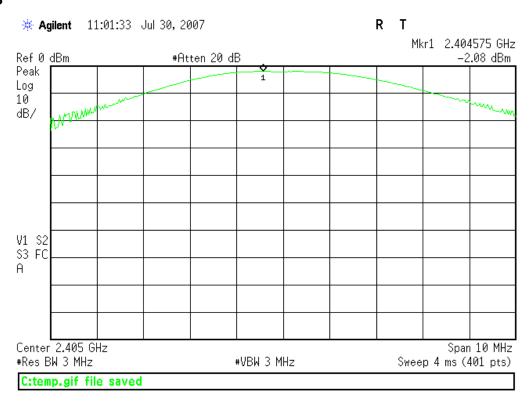
Measured conducted output power – Channel 0 = -2.080dBm = 0.00061W

Channel 7 = -2.052dBm = 0.00062W

Channel 15 = -2.223dBm = 0.00059W

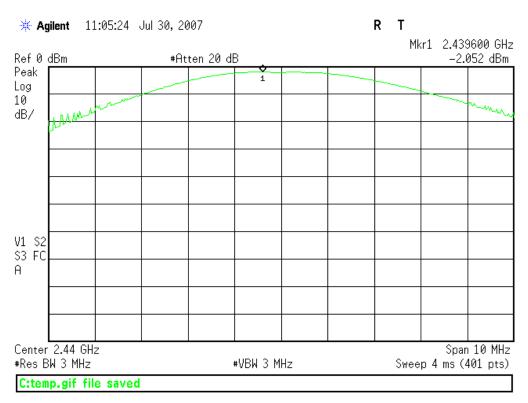
All power readings are below the limit 1 Watt therefore the EUT passes the requirement.

PLOTS

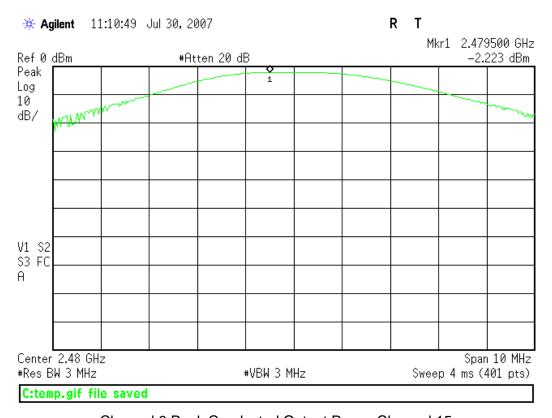


Channel 0 Peak Conducted Output Power Channel 0





Channel 0 Peak Conducted Output Power Channel 7



Channel 0 Peak Conducted Output Power Channel 15



Band Edge Measurements

LIMITS

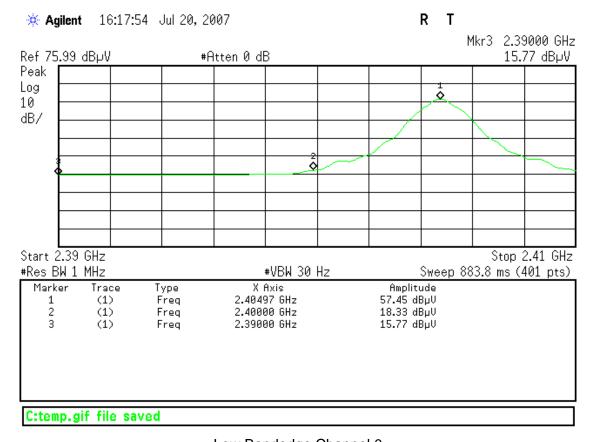
Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS

Band Ed	lge									Curtis-St	raus LLC
Date:	20-Jul-07			Company:	Interser	ise			W	ork Order:	H0825
Engineer:	David Harris			EUT Desc:	Wireles	s Wand					
								N	leasurement Distance: 3	3 m	
		·									
Antenna			Preamp	Antenna	Cable	DCC	Adjusted		FC	FCC Part 15.209	
Polarization	Frequency	Reading	Factor	Factor	Factor	Factor	Reading		Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dB)	(dBµV/m)		(dBµV/m)	(dB)	(Pass/Fail)
Hpk	2390.0	15.8	0.0	28.9	1.4	0.0	46.1		74.0	-27.9	Pass
Hav	2390.0	15.8	0.0	28.9	1.4	20.0	26.1		54.0	-27.9	Pass
Hpk	2483.5	28.6	0.0	29.1	1.4	0.0	59.1		74.0	-14.9	Pass
Hav	2483.5	28.6	0.0	29.1	1.4	20.0	39.1		54.0	-14.9	Pass
Table	e Result:	Pass	by	-14.9	dB	•	•		Worst Freq:	2483.5	MHz
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-H	IGH-14		Analyzer: Orange	Antenna: I	Black Horn	

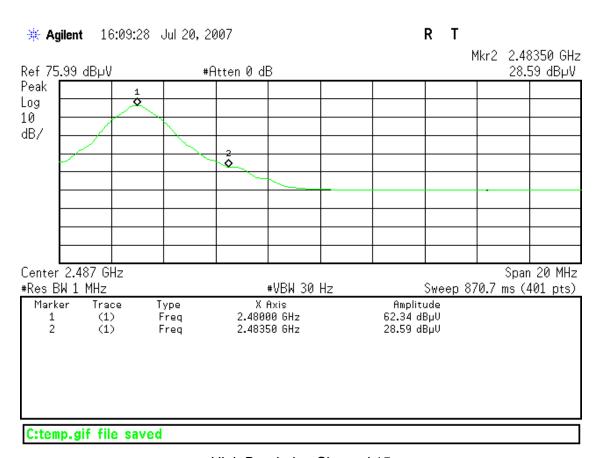
RBW = 1MHzVBW = 30Hz

PLOTS



Low Bandedge Channel 0





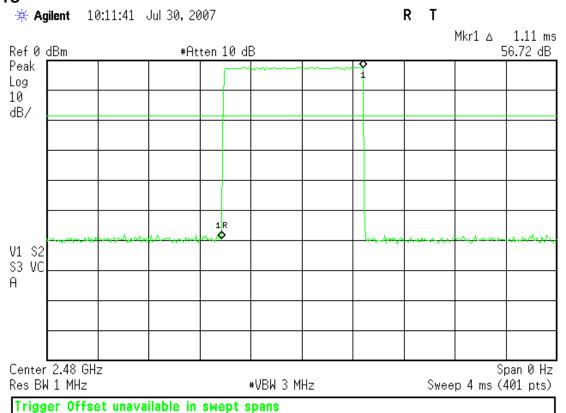
High Bandedge Channel 15

Duty Cycle Correction Calculation

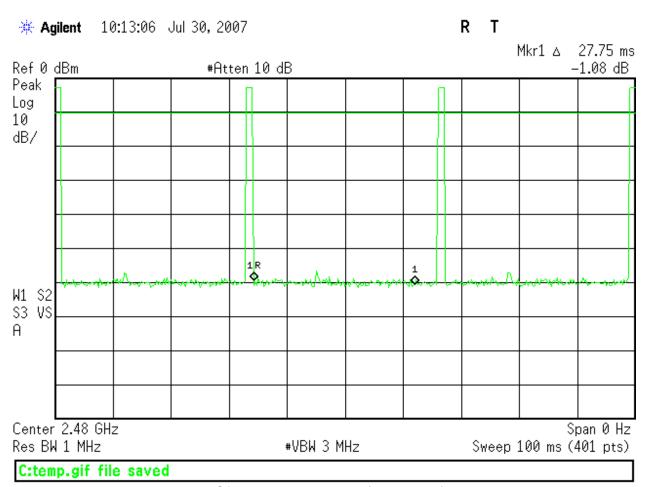
MEASUREMENTS / CALCULATIONS

EUT on time = 1.1mS # of transmits in 100mS = 4 Total on time = 1.1 x 4 = 4.4mS Duty Cycle = 4.4/100 = .044 = 4.4% DCCF = 20log(4.4/100) = -27.13dB Max DCCF = -20dB

PLOTS



EUT on Time of Single Pulse



Of Transmits in 100ms (worst case)

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

Harmoni	cs (puls	ed emis	ssions)						Curtis-St	raus LLC			
Date:	26-Jul-07			Company:	Intersen	se		Work Order: H0825					
Engineer:	David Harris		I	EUT Desc:	Wireless	s Wand							
	Freque	ncy Range:	1-18GHz				Meas	urement Distance:	3 m				
Notes:	Radiated Spu 20dB duty cyc			nics		EUT Max Freq: 2.4GHz							
Antenna			Preamp	Antenna	Cable	Adjusted		FC	C Part 15.2	09			
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)		Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)			
Channel 0													
Hpk	4802.5	63.2	39.5	32.9	1.8	58.4		74.0	-15.6	Pass			
Hav	4802.5	43.2	39.5	32.9	1.8	38.4		54.0	-15.6	Pass			
Channel 7													
Hpk	4880.0	64.6	39.4	33.1	1.8	60.1		74.0	-13.9	Pass			
Hav	4880.0	44.6	39.4	33.1	1.8	40.1		54.0	-13.9	Pass			
Channel 15													
Hpk Hav	4960.0 4960.0	64.2 44.2	39.7 39.7	33.2 33.2	1.8 1.8	59.5 39.5		74.0 54.0	-14.5 -14.5	Pass Pass			
Table	e Result:	Pass	by	-13.9	dB			Worst Freq:	4880.0	MHz			
Test Site:	"F"	Pre-Amp:	Brown	Cable:	EMIR-H	IGH-21	Analyzer: Orange	Antenna:	Orange Hor	n			

Radiated	l Emissi	ons Tab	ole								Curtis-St	aus LLC
	26-Jul-07 David Harris			Company: EUT Desc:						W	ork Order:	H0825
J		ncy Range:	1-18GHz						Measureme	nt Distance:	3 m	
Notes:	Radiated Spu 10Hz VBW A		ons						EU	T Max Freq:	2.4GHz	
Antenna			Preamp	Antenna	Cable	Adjusted				FCC Class B		
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)				Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
Channel 7 Vav	4875.9	55.8	39.4	33.1	1.8	51.3				54.0	-2.7	Pass
Table	e Result:	Pass	by	-2.7	dB				W	orst Freq:	4875.9	MHz
Test Site:	"F"	Pre-Amp:	Brown	Cable:	EMIR-H	IGH-21	Analyzer:	Orange		Antenna:	Orange Hor	n

No emissions were found in the range 18-25GHz.

Conducted Spurious Emissions

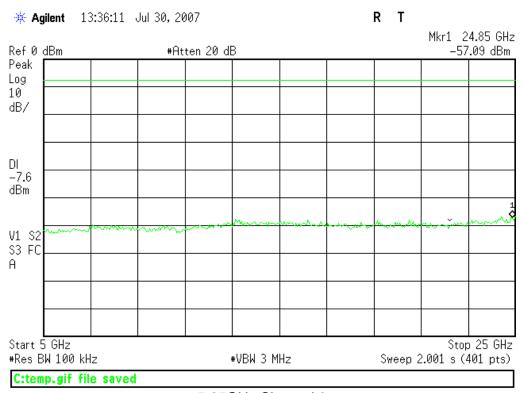
LIMITS

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)]

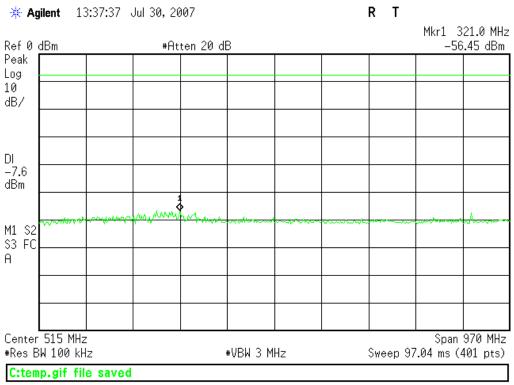
MEASUREMENTS / RESULTS

EUT is in TX/RX mode. All Spurious and Harmonic emission are at least 20dB below that of the fundamental. See plots for data.

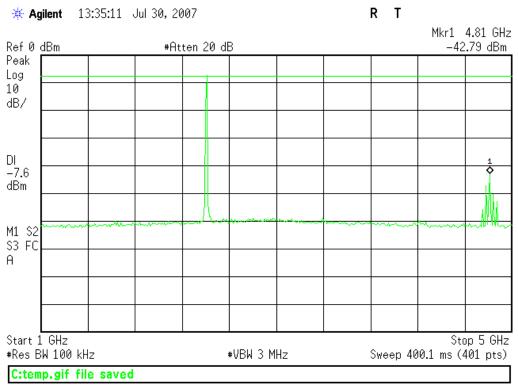
RBW= 100kHz VBW= 3MHz



5-25GHz Channel 0

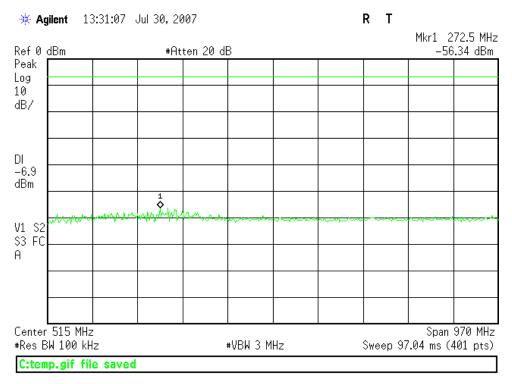


30-1000MHz Channel 0

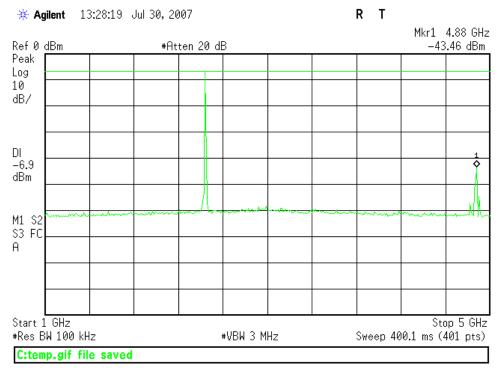


1-5GHz Channel 0



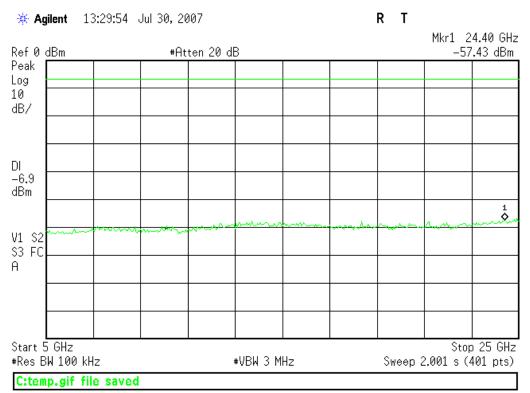


30-1000MHz Channel 7

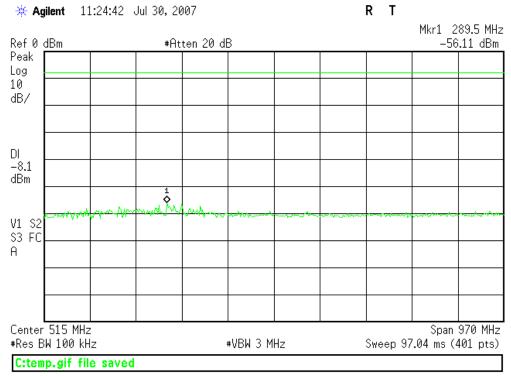


1-5GHz Channel 7

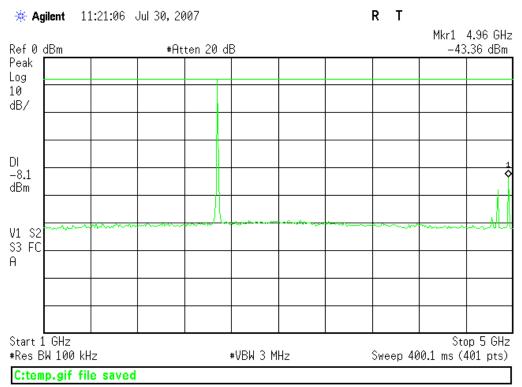




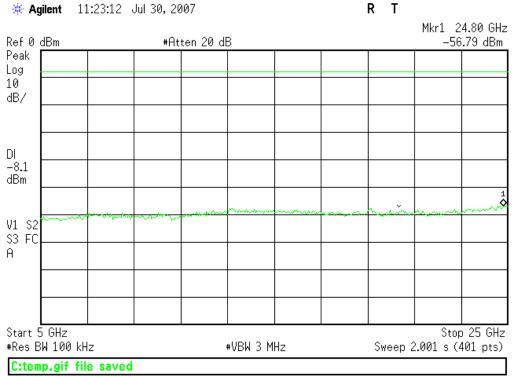
5-25GHz Channel 7



30-1000MHz Channel 15



1-5GHz Channel 15



5-25GHz Channel 15

Power Spectral Density

LIMIT

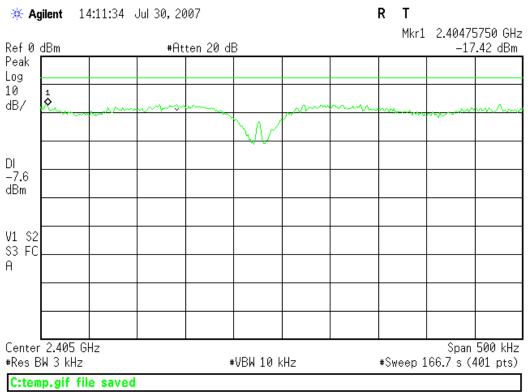
...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. [15.247(e)]

MEASUREMENTS / RESULTS

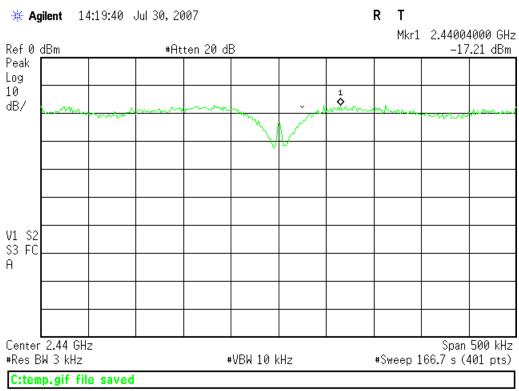
Highest Power Spectral Density – Channel 0 = -17.42dBm Channel 7 = -17.21dBm Channel 15 = -17.13 dBm

All measurements are below the 8dBm limit therefore the EUT meets the requirement.

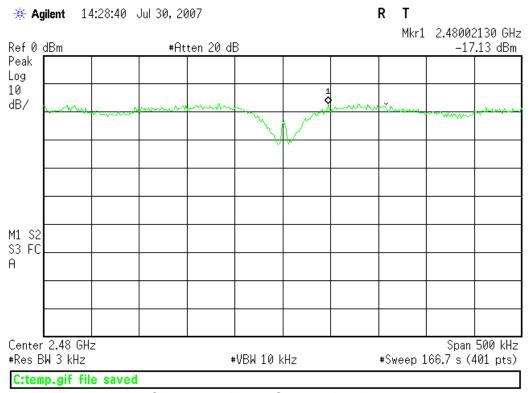
PLOTS



Channel 0 Power Spectral Density



Channel 7 Power Spectral Density



Channel 15 Power Spectral Density



AC Line Conducted Emissions LIMITS

Frequency of	Quasi-peak limit	Average limit			
emission (MHz)	(dBµV)	(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 line conducted emissions test is Not Applicable on the EUT because the EUT is battery powered. However the battery charger was tested with the EUT Charging.

AC Main	s Cond	ucted E	missio	ons						C	urtis-Stra	us LLC	
Date:	19-Jul-07		(Company:	Intersense						Work Order:	H0825	
Engineer:	Engineer: David Harris EUT De										Test Site:	EMI 2	
Notes:													
Measurement	Device:	Yellow-Black	k LISN										
Range:	0.15-30MHz								Spectr	um Analyzer:	Yellow		
					Impedance			FCC Pa	FCC Pa	art 15.209	5.209		
	Q.P. Re	adings	Ave. Re	eadings	Factor				Overall				
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result	
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)	
0.15	29.0	29.5	8.0	11.5	20.6			66.0	-15.9	56.0	-23.9	Pass	
1.00	0.7	1.0	0.4	0.3	20.1			56.0	-34.9	46.0	-25.5	Pass	
5.00	2.4	2.6	1.6	1.4	20.1			56.0	-33.3	46.0	-24.3	Pass	
10.00	3.0	3.2	1.5	1.3	20.1			60.0	-36.7	50.0	-28.4	Pass	
15.00	3.2	3.2	1.4	1.4	20.2			60.0	-36.6	50.0	-28.4	Pass	
25.00	3.2	3.3	1.2	1.3	20.3			60.0	-36.4	50.0	-28.4	Pass	
Table	Result:	Pass	by	-15.89	dB				Wo	rst Freq:	0.15	MHz	

Voltage Variations

REQUIREMENT

Measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery powered equipment, the equipment tests shall be performed using a new battery. [15.31(e)]

MEASUREMENTS / RESULTS

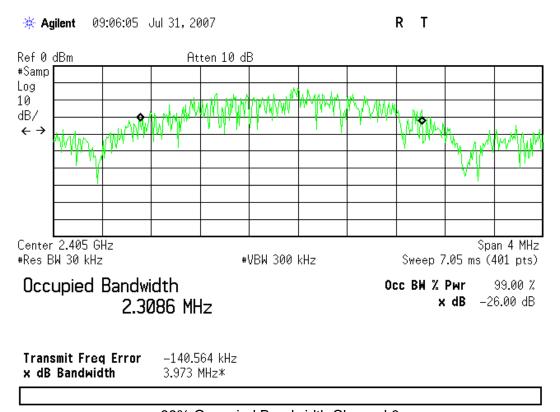
Voltage Variations test is Not Applicable because the EUT is battery powered.



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]



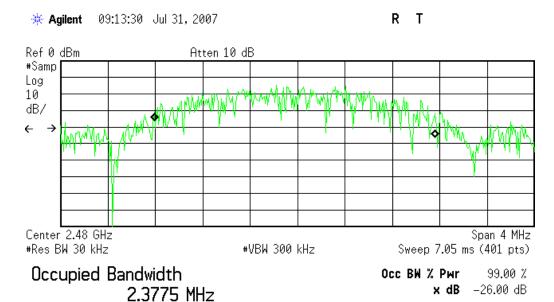
99% Occupied Bandwidth Channel 0

09:10:33 Jul 31, 2007 R T 🔆 Agilent Ref 0 dBm Atten 10 dB #Samp Log 10 dB/ **←** Center 2.44 GHz Span 4 MHz #Res BW 30 kHz #VBW 300 kHz Sweep 7.05 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % x dB -26.00 dB 2.3755 MHz

Transmit Freq Error -27.651 kHz x dB Bandwidth 3.891 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 7



Transmit Freq Error −26.030 kHz x dB Bandwidth −26.030 kHz 3.897 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 15

Test Equipment Used

0					REV. 30-JUL-2007						
SPECTRUM ANALYZ RECEIVERS	ERS /	RANGE	MN	MFF	₹ 5	SN	ASSET	CAT	Γ	CALIBRATION DUE	
RED		9kHz-1.8GHz	8591	E Agile	nt 3441	A03559	00024	I		08-JAN-2008	
WHITE		9kHz-22GHz	8593	E Agile	nt 3547L	J01252	00022	- 1		06-OCT-2007	
BLUE		9kHz-1.8GHz	8591		nt 3223/	A00227	00070	- 1		18-DEC-2007	
YELLOW		9kHz-2.9GHz	8594			A01958	00100	i		08-JUN-2008	
GREEN		9kHz-26.5GHz	8593			A03618	00143	i		Out of Cal	
			0090	Agile	111 3029F			- :			
BLACK	^	9kHz-12.8GHz	8596			A00944	00337			Out of Cal	
TELECOM 3585		20Hz-40.0MHz				A05219	00030	. !		15-FEB-2008	
TELECOM 3585		20Hz-40.0MHz				403418	00558	I		Out of Service	
TELECOM 3585	A	20Hz-40.0MHz	3585	A Agile	nt 1750/	402762	01067	ı		Out of Service	
Orange		9kHz-26.5GHz	E440	7B Agile	nt US39	440975	00394	- 1		Out of Service	
GOLD		100Hz-26.5 GHz	E440	7B Agile	nt MY45	113816	1284	- 1		25-JUL-2008	
REFERENCE EMI TEST F	RECEIVER	20-1000MHz	ESVS		8279	57/001	01098	1		To be determined	
RENTAL SA #1 (BRO		9kHz-26.5GHz	E440			210511	Rental	i		01-FEB-2008	
RENTAL SA #2	,	100Hz-26.5 GHz	E740	•		212795	Rental			28-DEC-2007	
RENTAL SA #3		9kHz-1.8GHz	8591E			400617	Rental			25-JUL-2008	
RENTAL SA #4		100Hz-3 GHz	E740	2A Agile	nt MY45	103221	Rental	<u> </u>		23-JUL-2008	
LISNS/MEASUREMEI	·-										
PROBES	N I	RANGE	N	ΛN	MFR	SN	l	ASSET	Сат	CALIBRATION DUE	
RED		9kHz-50MHz	8012 50	R-24-BNC	SOLAR	9563	/Q	00753		UE ILINI 2009	
									!	06-JUN-2008	
BLUE (DC)		50kHz-50MHz		R-24-BNC	SOLAR	9563		00752	!	06-JUN-2008	
YELLOW-BLACK		9kHz-50MHz		R-24-BNC	SOLAR	04110		00248	I	24-MAY-2008	
Orange		9kHz-30MHz	8012-50-	R-24-BNC	SOLAR	9037	07	00754	- 1	07-MAY-2008	
GOLD (DC)		9kHz-50MHz	8012-50-	R-24-BNC	SOLAR	9847	34	00247	- 1	13-JUN-2008	
Brown		50ĸHz-50MHz		R-24-BNC	SOLAR	04110		00986	- 1	12-JUN-2008	
GREEN		9kHz-50MHz		R-24-BNC	SOLAR	9847		00987	i	12-JUN-2008	
YELLOW				R-24-BNC	SOLAR	04110		1080	- 1		
		9kHz-50MHz				-				06-JUN-2008	
WHITE-BLACK		10kHz-30MHz		-TS-100-N	SOLAR	9720		00678	!	17-MAY-2008	
BLACK		10kHz-30MHz		-TS-100-N	SOLAR	9720		00675	ı	18-MAY-2008	
RED-BLACK		10kHz-30MHz	8610-50	-TS-100-N	SOLAR	9720	16	00677	I	18-MAY-2008	
BLUE-BLACK		10kHz-30MHz	8610-50	-TS-100-N	SOLAR	9720	18	00676	- 1	17-MAY-2008	
BLUE MONITORING PRO		0.01-150MHz		550-2	TEGAM	123		00807	- 1	31-MAY-2009	
YELLOW MONITORING P		0.01-150MHz		550-2	ETS	509		00493	i	23-JAN-2008	
GREEN CURRENT TRANSFO		40Hz-20MHz		50	PEARSON	102		00793	i	19-APR-2009	
BLUE CISPR LINE PRO		10kHz-50MHz		N/A	C-S	N/A		00805	II	08-JUN-2009	
BLACK CISPR LINE PRO		10kHz-50MHz		N/A	C-S	N/A		1254	II	08-JUN-2009	
CISPR TELCO VOLTAGE F	PROBE	10kHz-30MHz	CS A	√C-10	C-S	CSC)1	00296	II	17-NOV-2007	
CISPR 22 TELCO IS	N	9ĸHz-30MHz	FCC-T	LISN-T4	FISCHER	201	15	00746	ı	15-NOV-2007	
OPEN AREA TEST		4 <i>TS)</i>	FCC Cc		IC CODE		CI CODE			CALIBRATION DUE	
SITE	F		9344	8	IC 2762A-1	R	-1688	II		23-JUN-2008	
SITE '	Т		9344	8	IC 2762A-2	F	R-905	II		23-JUN-2008	
SITE A			9344		IC 2762-A		2-903	ii		20-JUN-2008	
SITE I			9344		IC 2762-M		R-904	ii		19-JUN-2008	
SITE			9344		IC 2762A-3		-2377	ii		12-APR-2008	
J.112											
CONDUCTED TEST SITE		/TELCO)	FCC Co	DDE	IC CODE		CI COD		Сат	CALIBRATION DUE	
EMI ·	1		9344	8	N/A	C-1	801, T-2	68	Ш	NA	
EMI			9344	R	N/A		802, T-2		Ш	NA	
EMI			9344		N/A		803, T-2		III	NA	
MIXERS/DIPLEXERS	RANGE	MN		MFR		SN		ASSET	Сат	CALIBRATION DUE	
Mixer / Horn	26.5-40 GHz			HP/ATM	2332A0169	95/A046903		1087	1	23-AUG-2007	
Mixer / Horn	26.5-40 GHz	2 11970A/28-	-442-6	HP/ATM	3003A0782	25/A046903	-01	1086	1	19-SEP-2007	
MIXER / HORN	40-60 GHz	M19HW		OML	U3	0110-1		00821	1	29-JUN-2009	
MIXER	33-50 GHz	11970		HP		3A03155		00104	i	08-NOV-2007	
MIXER / HORN	50-75 GHz	11970V /QWH-\		HP/QuinStar		197/879400		1179	i	15-NOV-2007	
	75-110 GHz			HP		1A01334		00105	- !	22-NOV-2007	
MIXER / HORN	60-90 GHz	M12HW		OML		0110-1		00822	I.	29-JUN-2009	
	90-140 GHz			OML	F2	1206-1		00811	ı	29-JUN-2009	
Mixer / Horn 1	140-220 GH	z MO5HV	V/A	OML	G2	1206-1		00812	- 1	29-JUN-2009	
DIDI EYED	40-220 GHz	חפו 2	6	OMI		NI/A	(10813	1	29-111N-2009	

00813

N/A

DPL.26

40-220 GHz

DIPLEXER

OML

29-JUN-2009

ABSORBING CLAMPS	RANGE		MN		MFR	SN	Asse	т С	CAT	CALIBRATION DUE
FISCHER CLAMP	30-1000MF	······································	F-201-23	Вмм	FISCHER	10	8000	31	T	20-JAN-2008
HARMONIC & FLICKER A	NALYZER	MN		MFR		SN			Сат	CALIBRATION DUE
HFTS		HP6842/		HP		-00169		738	II.	OUT OF CAL
10001I/2 AC POWER SY	STEM	(2) 5001	CALIF	ORNIA INSTRUMEN	тs HK53687	/HK5368	8 00	376	II	09-JAN-2008
PREAMPS/	RAN	05		MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
ATTENUATORS / FILTERS										
RED	0.009-20			-1000-LN	C-S		N/A	00798	II	20-APR-2008
BLUE BLUE BLACK	0.009-20			-1000-LN	C-S		N/A	00759	II II	17-APR-2008
BLUE-BLACK	0.009-20			-1000-LN	C-S		N/A	00800	II.	18-JAN-2008
GREEN	0.009-20			-1000-LN	C-S		N/A	00802	II	02-MAY-2008
BLACK	0.009-20			-1000-LN	C-S		N/A	00799	II	19-JUL-2008
ORANGE	0.009-20			-1000-LN	C-S		V/A	00765	II	02-MAY-2008
RED-WHITE	0.009-20			-1000-LN	C-S		V/A	1258	II	08-MAY-2008
WHITE	1-200			MC-12A	C-S		6643	00760	II	09-JUL-2008
Brown	1-200			8-4R5-17-15-SFF	C-S		.1655	1132	II	02-APR-2008
YELLOW-BLACK	1-200			MC-12A	C-S		5055	00801	II	OUT OF SERVICE
RED-GREEN	1-200			8-4R5-17-15-SFF	C-S		N/A	1256	II	14-AUG-2007
RED-BLUE	1-200			8-4R5-17-15-SFF	C-S		.3177	1257	II	19-APR-2008
HF (YELLOW)	18-26.5			002650-60-8P-4	C-S		7559	1266	ı	23-AUG-2007
HIGH PASS FILTER	1-18 (_	\-F-55204	K&L		36	00817	Ш	05-JAN-2008
Low Pass Filter	1-9 G		11SL10-4	100/X4400-O/O	K&L		4	00816	II	05-JAN-2008
HIGH PASS FILTER	2.3-5.5	GHz	\	/HP-19	MINI-CIRCUITS	ı	NA	1287	Ш	05-JAN-2008
HIGH PASS FILTER	1.9-2.7	GHz	\	/HP-16	MINI-CIRCUITS	ı	NA	1288	II	05-JAN-2008
HF 20dB 50W ATTENUATOR	0.03-20	GHz	PE	7019-20	PASTERNACK		01	00791	II	08-MAY-2009
HF 30dB 50W ATTENUATOR	0.03-20	GHz	PE	7019-30	PASTERNACK		02	1168	II	08-MAY-2009
40dB 100W ATTENUATOR	0.09-400	00MHz	BW-4	10N100W+	MINI-CIRCUITS	V N01	4900638	1231	II	08-NOV-2007
RFI-Low 130 kHz LPF	10-100ĸF	Iz Pass	130	KHz LPF	Kiwa		NA	1235	II	12-MAR-2008
ANTENNAO	DANOE		NANI	MED	CNI	A 0.0.E.T.	Car		CALIBB	ATION DUE
ANTENNAS	RANGE		MN	MFR	SN	ASSET	Сат			ATION DUE
GREEN BILOG	30-2000M		L6112B	CHASE	2742	00620	II			AN-2008
GREEN-BLACK BILOG	30-2000M	_	L6112B	CHASE	2412	00127	II.			AN-2008
GREEN-RED BILOG	30-2000MI	_	L6112B	CHASE	2435	00990	l !			PR-2008
BLUE BILOG	30-1000M		3143	EMCO	1271	00803	II	0=14414		AY-2009
GRAY BILOG	20-2000MI		3141	EMCO	9703-1038	00066	II) / 04-FEB-2008(RFI2
YELLOW-BLACK BILOG	20-2000MI	_	L6140A	CHASE	1112	00126	II.	07-MAY		II) /20-APR-2008(RFI)
RED-WHITE BILOG	30-2000M		JB1	SUNOL	A091604-1	01105	!			OV-2008
RED-BLACK BILOG	30-2000M		JB1	SUNOL	A091604-2	01106	l l			CT-2008
RED-BROWN BILOG	30-2000M		JB1	SUNOL	A0032406	1218	I			JG-2008
YELLOW HORN	1-18GHz		3115	EMCO	9608-4898	00037	ı			l) / 14-JUN-2008 (RFI
BLACK HORN	1-18GHz		3115	EMCO	9703-5148	00056	I) / 16-MAY-2008 (RF
ORANGE HORN	1-18GHz		3115	EMCO	0004-6123	00390	ı	12-JUN-2) / 16-MAY-2008 (RF
HF (WHITE) HORN	18-26.5GH	Hz 80	1-WLM	WAVELINE	00758	00758	I		26-Al	JG-2007
SMALL LOOP	10kHz-30M	Hz PL	4-130/A	ARA	1024	00755	ı		22-FI	EB-2008
LARGE LOOP	20Hz-5MH	l z	6511	EMCO	9704-1154	00067	- 1		23-J	N-2008
ACTIVE MONOPOLE	30Hz-30M	Hz 3	301B	EMCO	3824	00068	II		14-Jl	JN-2008
INDUCTION COIL	50-60Hz	: 10	00-4-8	C-S	N/A	00778	II		26-SI	EP-2007
ADJUSTABLE DIPOLE	30-1000M	Hz 3	121C	EMCO	1370	00757	- 1			CT-2008
ADJUSTABLE DIPOLE	30-1000M		121C	EMCO	1371	00756	I			OV-2008
RE101 LOOP SENSOR	30Hz-100k		01-13.3см	C-S	N/A	00818	II			AR-2009
RS101 RADIATING LOOP	30Hz-100k		01-12см	C-S	N/A	00819	ii			AR-2009
RS101 LOOP SENSOR	30Hz-100k	Hz RS	101-4см	C-S	N/A	00820	<u>II</u>		22-M	AR-2009
	30Hz-100k	Hz RS ²	101-4см	C-S MFR	N/A	00820 SN	II	ASSET	22-M	AR-2009 CALIBRATION DUE

EFI	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
CAS 3025 BURST	INA 265A/266	SCHAFFNER	20096	00947	II	28-JUN-2008
VERIFICATION ATTENUATORS						
EFT DIRECT COUPLING CAP	N/A	C-S	01	00794	Ш	19-JUL-2008
Modula6150	Modula6150	TESEQ	34525	1268	- 1	11-Jul-2008
RED BESTEMC-2	711-1100	SCHAFFNER	200122-074SC	00623	Ш	13-APR-2008
EMC PRO PLUS	EMCPRO PLUS	KEYTEK	0608208	RENTAL	Ш	17-MAY-2008

ESD GENERATORS	MN			MFR		SN	As	SET	Сат	CALIBRATION DUE
GREEN	NSG435	5		HAFFNER	0	00839		763	ı	25-OCT-2007
RED	NSG43			HAFFNER		01625		762	İ	06-FEB-2008
YELLOW	930D			ETS		201	00	673	1	18-AUG-2007
DIPS AND INTERRUPTS		ΜN	Mi	FR .		SN		ASSET	Сат	CALIBRATION DUE
MODULA6150 INA 6502 AUTOMATIC STEPTRANSF		JLA6150 6502	TES		;	34525 105		1268 1269	l I	11-JUL-2008 11-JUL-2008
			CALIF		LUZEOG				•	
100011/2 AC POWER SYSTE	(-/	5001	INSTRU			87/HK536	00	00376	II II	21-JUN-2008
RED BESTEMC-2	711	-1100	SCHAF	-FNER	2001	22-074SC		00623		17-APR-2008
CHAMBERS AND STRIPLINE	MN			MFR		SN	ASSE			CALIBRATION DUE
RFI 1 CHAMBER	3 METER Co			ANASHIEL		N/A	0079			20-APR-2008
RFI 2 CHAMBER	04' x 07' SHIELDI	NG SYSTEM		LINDGREN	٧	13329	0079			04-FEB-2008
RFI 3 STRIPLINE ENVIRONMENTAL (SAFETY)	N/A ECL5	:		C-S B-M-A Inc	_	N/A 2041	0079			NA 03-JAN-2008
ENVIRONMENTAL (SAFETY)	SGTH-3			3-M-A INC		2245	0002			03-JAN-2008
ENVIRONMENTAL (OALETT)	001110	,,,,		J IVI / CIIVO	<i>-</i>	22-10	0002			00 07 11 2 2 0 0 0
AMPLIFIERS RANGE	MN	MFR		SN	ASSET	Сат				ATION DUE
RED 0.5-1000MHz GREEN 0.5-1000MHz	10W1000B 10W1000B	AR AR		18708 23423	00032 00123	II II				2008 (RFI1) 2008 (RFI2)
BLUE 0.01-250MHz	75A250	AR		19165	00039	II	03-N			/ 19-JUN-2008 (NEBS CRFI)
BLACK 0.01-250MHz	75A250	AR		23411	00122	II		•	,	JN-08 (NEBS) / 20-APR-08 (RFI1)
ORANGE 0.01-250MHz	75A250	AR	2	26827	00367	II	2	28-JUN-08 (NEBS C	RFI)/ 29-JUN-2008 (EU)
BROWN 150W 0.1-250MHz	150A250	AR		13454	1255	II				2008 (RFI2)
GTC 1-2.6 1.0-2.6 GHz	GRF5016A	GTC		1221	RENTAL	II		•		ANGE HORN) / 28-JUN-2008 (BLK)
HUGHES 10W 2.0-4.0GHz HUGHES 10W 4.0-8.0GHz	1177H01 8010H02F	Hughes Hughes		055 240	RENTAL RENTAL	II II				N) /16-MAY-2008 (BLK & ORANGE) N) /16-MAY-2008 (BLK & ORANGE)
HUGHES 10W 4.0-8.0GHZ HUGHES 10W 8-10.0GHZ	8010H02F 80108	HUGHES		138	RENTAL	II		,		i) /17-MAY-2008 (BLK & ORANGE)
HP495A 7.0-10.0GHz	HP495A	HP		4-00237	00086	 II	14-30			RVICE (SPARE)
AUDIO AMP AUDIO FREQ	MPA-200	RADIO SHA		00438	NONE	III		•		NA
AUDIO AMP AUDIO FREQ	MPA-200	RADIO SHA	ск 7	08545	00862	III				NA
FIELD PROBES	RANGE		MN	MF	-R	SN		ASSET	CA	AT CALIBRATION DUE
RED	0.01-1000M	Hz HI	-4422	HOLA	ADAY	90369		00031	I	23-MAR-2008
GREEN	0.01-1000M		-4422	HOLA		97363		00136	I	25-JUL-2007
BLUE	0.01-1000M		-4422 _7006	HOLA	ADAY	95696		01100	I	18-APR-2008
Reference Laser Field Probe	0.1-6000MF	 7	r Probe	Al	R	321700		1252	I	23-FEB-2008
MICROWAVE SURVEY METER	2450MHz	HI	-1501	HOLA	ADAY	0007546	4	1244		09-JAN-2008
SIGNAL GENERATORS	RANGE	MN		MfR		SN		ASSET	С	AT CALIBRATION DUE
	0.09-2000MHz	HP8648		Agiler		3847U02		00366		I 03-APR-2008
	0.1-1000MHz	HP8648		Agiler		3426A00		00034		I 23-AUG-2007
_	0.09-2000MHz	HP8648		Agiler		3623A02		00125		I 16-OCT-2007 I 19-JUN-2008
	0.1-1000MHz).01Hz-15MHz	HP8648 HP33120		Agiler Agiler		3537A07 US36016		00025 1211		I OUT OF SERVICE
	0.01Hz-15MHz	HP33120		Agiler		US36048		1219		I 17-MAY-2008
	0.01Hz-15MHz	HP33120		Agiler		SG40019		1232		I 10-NOV-2007
	0.1Hz-13MHz	HP3312		Agiler		1432A07		00775		I 21-MAR-2008
SWEEPER	0.01-20.0GHz	HP83752	2A	Agiler	nt	3610A01	1133	00087	ı	II 08-MAY-2008
AM/FM STEREO SIG. GEN.	0.1-170MHz	LG323		LEADE		36873	-	00959		I To be determined
IMPULSE GENERATOR	1-100Hz	CIG-25	5 EL	ECTRO-M	IETRICS	290		00942		To be determined
BULK INJECTION CLAMPS	RANGE	MN	MFR	SN	Asset	Сат			CALIBR	ATION DUE
GREEN (NEBS CRFI)	0.01-30MHz	95236-1	ETS	50215	00118					2008(BLK) 29-JUN-2008(ORANGE)
GREEN (EU CRFI)	0.15-80MHz	95236-1	ETS	50215	00118					-2007(BLK) 28-JUN-2008(ORANGE)
RED (NEBS CRFI)	0.01-30MHz	95236-1	ETS	34026	1020	II II		, ,		2008(BLK) 29-JUN-2008(ORANGE)
RED (EU CRFI) BLUE (RTCA/DO-160E)	0.15-80MHz 2-450MHz	95236-1 9142-1N	ETS Solar	34026 063824	1020 1237	II II	U4-NO			·2008(BLK) 28-JUN-2008(ORANGE) E BEFORE USE
RENTAL (RTCA/DO-160E)	2-450MHz	9142-1N 9142-1N	SOLAR	003624	RENTAL			C.		UG-2007
,										
ANSI T1.315		MFR		A	SSET	Ca	Т		CALI	BRATION DUE
SBC Noise Cart		C-S			285	III				ION NOT REQUIRED
SBC TRANSIENT CART		C-S		1	286	III		WAVE	SHAPE	VERIFIED BEFORE USE



OSCILLOSCO		MN		MFR		SN	ASSET	Сат	CALIBRATION DUE
EMC 100M		TDS 220		TEKTRO		C036986	1166	!	25-APR-2008
ESD REFERENC		TDS 684B		TEKTRO		B011287	RENTAL	!	03-APR-2008
400MHz E*S Product Safety		TDS 3044E TDS 340	•	TEKTRO		C010074 B012357	1275 00737	-	19-JUL-2008 03-OCT-2007
TELECOM 100		54645A		HP/AGILI		US36320452	00737	<u> </u>	OUT OF SERVICE
REFERENCE 500MH		P6139A		TEKTRO		NA	1280	i	19-JUL-2008
REFERENCE 500MHz	-	P6139A		TEKTRO		NA	1281	i	19-JUL-2008
500MHz 10x F		P6139A		TEKTRO		NA	1282	i	19-JUL-2008
500MHz 10x F		P6139A		TEKTRO		NA	1283	i	19-JUL-2008
REFERENCE HV 10		P6015A		TEKTRO		B056555	1277	Ĺ	20-JUL-2008
REFERENCE HV 10	00х Proве	P6015A		TEKTRO	NIX	B056590	1278	1	20-JUL-2008
CDN N ETWORKS	RANGE	MN	MFR	ASSET	Сат		CALIBRAT	ION DUE	
BLUE	0.10-100MHz	20A M-3	C-S	00806					28-JUN-2008 (ORANGE)
RED	0.10-100MHz	15A M-3	C-S	00780					28-JUN-2008 (ORANGE)
YELLOW-BLACK	0.10-100MHz	15A M-3	C-S	00784					28-JUN-2008 (ORANGE)
GREEN	0.10-100MHz	30A M-3	C-S	00779		,		, ,	28-JUN-2008 (ORANGE)
YELLOW	0.10-100MHz	30A M-5	C-S	00804			007(BLUE AMP)		, ,
BROWN	0.10-100MHz	M-3	C-S	1169	II				28-JUN-2008 (ORANGE)
BROWN-WHITE	0.10-100MHz	M-3	C-S	1170	II				28-JUN-2008 (ORANGE)
BROWN-BLACK	0.10-100MHz	M-2 (DC)	C-S	1171	II 	,	,	, ,	28-JUN-2008 (ORANGE)
RED-BLACK	0.10-100MHz	M-2 (DC)	C-S	1177	II 	,	,	٠,	28-JUN-2008 (ORANGE)
GREEN-WHITE	0.10-100MHz	M-2 (DC) 100Ω	C-S	1259	II	,	,	, ,	28-JUN-2008 (ORANGE)
YELLOW (RES)	0.10-100MHz	RESISTOR 100Ω	C-S	00810	II	,	,	, ,	28-JUN-2008 (ORANGE)
GREEN (RES)	0.10-100MHz	RESISTOR	C-S	1172	II 	03-NOV-2007(BLUE A	,	, ,	28-JUN-2008 (ORANGE)
ARTIFICIAL HAND ARTIFICIAL HAND	$510\Omega/220$ PF $510\Omega/220$ PF	CS-AH CS-AH	C-S C-S	1262 1263	II II		04-JUN 04-JUN		
ARTIFICIAL HAND	310027 220PF	СЗ-АП	U-3	1203	II		04-301	1-2006	
RMS VOLTMETER	S/CURRENT CLA	MP	MN	Mn	IFR	SN	ASSET	Сат	CALIBRATION DUE
	MULTIMETER		79111	FLU		71700298	00769		27-OCT-2007
	MULTIMETER		179	FLU		89280616	1228	iii	Not Cal'd to 17025
TRUE-RMS MULTIN			177	FLU		83390024	00973	Ï	22-MAR-2008
	MULTIMETER		177	FLU	JKE	83390025	00974	1	22-MAR-2008
TRUE-RMS MUL	TIMETER (TELECOM)		177	FLU	JKE	83430419	00975	ı	22-MAR-2008
AC/DC CUR	RENT PROBE		622	TEKT	RONIX	08DD 6275Dv	1246	<u> </u>	31-JAN-2008
	ENERATORS		MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
	VEFORM MONITOR		TWM-	5	CDI	003982	00323	II	05-JUN-2008
	RGE GENERATOR		M5 3CN		CDI CDI	003966	00324	II	CAL BEFORE USE
	COUPLING NWK	1.0	SCIN X50US F	DULION	CDI	003455 N/A	00325 00842	II II	CAL BEFORE USE CAL BEFORE USE
	LUGIN MODULE		160US F		C-S	N/A	00842	ii	CAL BEFORE USE
	LUGIN MODULE		560US F		C-S	N/A	00843	ii	CAL BEFORE USE
	ROLLER MODULE		SURGE		HAEFEL		00879	ii	05-JUN-2008
	OUPLING MODULE		PCD 90		HAEFEL		00880	ii	05-JUN-2008
	E MODULE		PIM 90		HAEFEL'		00881	ii	05-JUN-2008
HIGH VOLTAGE CA		BuF	CS-HV		C-S	01	00772	II	09-APR-2008
	SE GENERATOR	, μι	N/A		C-S	N/A	00088	ii	18-OCT-2007
	GE GENERATOR		2x10u	S	C-S	N/A	00846	ii	CAL BEFORE USE
	RGE GENERATOR		10x700		C-S	N/A	00847	II	06-JUN-2008
12 PAIR SURGE	RESISTOR MODULI	E	N/A		C-S	N/A	00768	II	18-OCT-2007
VSS	500-M	TS	S 500 M	12 S2	EMTES'	T V0502100032	1155	II	CAL BEFORE USE
TSS	500-M	Т	SS500 I	M10	EMTES'	T V0502100031	1156	II	CAL BEFORE USE
NSG 2050 Su	RGE GENERATOR		NSG 20	50	TESEQ	200720-605LU	1273	I	11-JUL-2008
PNW 2050 1.2x50			PNW 20		TESEQ	200711-604LU	1279	Į.	11-JUL-2008
CDN 133 3 Phase			CDN 13		TESEQ	34416	1274	Į	11-JUL-2008
	JLA6150	N	10DULA6		TESEQ	34525	1268	 	11-JUL-2008
	STEMC-2		711-110		SCHAFFNI ION PHYSIC		00623	II II	13-APR-2008
SURGE CUR	RENT MONITOR		CM-1-	L	Ion Physic	es 896730	1276	II	26-Jul-2008
OVERVOLTAGE C	HAMBERS	MN	MFR			SN	ASSET	Сат	CALIBRATION DUE
72KW POWER FAULT		OV1	C-S			N/A	00792	III	N/A
POWER FAULT SIN		OV2	C-S			N/A	00116	III	N/A



Power/Noise Meters	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
Power Meter	Power Meter 435B		2445A11012	00773	I	03-APR-2008
Power Meter	437B	HP	2912A01367	01099	1	03-APR-2008
Power Sensor	8481A	HP	2702A61351	00774	I	04-APR-2008
Power Meter	4232A	BOONTON	11000	1260	1	24-JUL-2008
Power Sensor	51013-4E	BOONTON	34457	1261	1	24-JUL-2008
PSOPHOMETER	2429	BRUEL & KJAER	1237642	00585	II	23-FEB-2009
TRANSMISSION LINE TESTER (DBRNC)) 185T	AMREL	18507030010	1236	II	20-APR-2008
TRANSMISSION LINE TESTER (DBRNC)) 185T	AMREL	998658	00823	II	03-JUL-2008
DIPOLE TAPE MEASURES	MN	MFR	SN	ASSET	Сат	CALIBRATION DUI
26FT TAPE #1	2338CME	LUFKIN	C3166-1	00776	II	22-MAR-2009
26FT TAPE #2	2338CME	LUFKIN	C3166-2	00777	II	22-MAR-2009
METEOROLOGICAL METERS	MN	MFR	SN	ASSET	Сат	CALIBRATION DUI
TEMP./HUMIDITY/ATM. PRESSURE GAUG	GE 7400 PERCEPTION I	I Davis	N/A	00965	ll l	09-FEB-2009
TEMPERATURE /HUMIDITY GAUGE	THG-912	HUGER	4000562	00789	ï	31-JAN-2009
WEATHER CLOCK (PRESSURE ONLY)	BA928	OREGON SCIENTIF	C3166-1	00831	I	08-FEB-2009
CONSUMABLES	SPEC.	MFR	STOCK/MN	ASSET	Сат	CALIBRATION DU
NEBS CHEESECLOTH	26-28M/KG	ED&D	ACC-01	N/A	III	N/A
	-MIL-GAP 1KV SURGE	RELIABLE	3AB	N/A	iii	N/A

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

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 Člient, 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



A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

CURTIS-STRAUS¹ 527 Great Road Littleton, MA 01460 Barry Quinlan Phone: 978-486-8880

Valid until: September 30, 2007

Certificate Number: 1627.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Electromagnetic Compatibility (EMC), Telecommunications, and Product

Electromagnetic Compatibility (EMC)

Electromagnetic Companionity (EMC)

Radiated emissions testing (electric and magnetic fields)*: Conducted emissions testing (voltage and current)*; Electrostatic Discharge testing*: Electrical Fast Transient testing*: Radiated Immunity testing*: Conducted Immunity testing*: Lightning Immunity testing*; Voltage Dips*: Interrupts and Voltage Variations testing*; Magnetic Immunity testing*: RF Power measurements*; Frequency Stability Measurements*: Longitudinal Induction measurements*: Armonic emissions testing*: Light flicker testing*: Low frequency disturbance voltage testing*; Disturbance Power measurements*; Power Cross Overvoltage testing*;

Test Type	Test Method(s)
Emissions	
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18: C63.4; CISPR 22; EN55022; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82, September 29, 2005); CISPR 11; EN 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1033; CISPR 14: EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; AS/NZS CISPR 14; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE; CSA C108.8-M1983;
Harmonics	EN 61000-3-2; AS/NZS 61000.3.2
Flicker	EN 61000-3-3; AS/NZS 61000.3.3

1 Note: This accreditation covers testing performed at the laboratory listed above and the satellite facility located at 168 Ayer Rd, Littleton, MA 01460 and, for test types marked with an asterisk, at other sites as defined in "A2LA specific criteria for the accreditation of site testing and site calibration laboratories."

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Immunity	RRL No. 2005-130 (December 27, 2005)
Electrostatic Discharge (ESD)	EN 61000-4-2; AS/NZS 61000.4.2; KN61000-4-2
Radiated Immunity (RFI)	EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3
Electrical Fast Transient Bursts (EFT)	EN 61000-4-4; AS/NZS 61000.4.4; KN61000-4-4
Surge	EN 61000-4-5, AS/NZS 61000.4.5; KN61000-4-5
Conducted Immunity	EN 61000-4-6, AS/NZS 61000.4.6; KN61000-4-6
Magnetic Immunity	EN 61000-4-8; AS/NZS 61000.4.8; KN61000-4-8
Voltage Dips and Interrupts	EN 61000-4-11; KN61000-4-11
Low Frequency Conducted Disturbances	EN 61000-2-2

Family Product or Industry Specific Specifications GR-1089-CORE; GR-78-CORE (ESD)

including emissions and/or immunity	GNT039-CORI. 167-38-CORI. 2317 GNT039-CORI. 17, ENSO081-2; ENS0082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-1; EN 61000-2: EN 55024; CISPR 24 EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50103-4; EN 50081-2; EN 60601-2-32; EN 60601-2-38; EN 60601-2-47; ECI 8000-3; EN 61800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 6069-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; C62-41
Radiocommunications	
EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893
EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
Canada Radio Standards	RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-187; RSS-188; RSS-191; RSS-192; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GL-36;
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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Other Radi	io Standards	RTTE 01 (DGT-Taiwan);					
FCC Stan	FCC Standards and Test methods Support TCB Status						
	e A – Unlicensed Radio Frequency Devices	atus					
A1	1. 47 CFR Parts 11, 15 and 18						
	2. FCC MP-5,						
	3. ANSI C63.4-2003,						
A2	1. 47 CFR Part 15,						
	2. ANSI C63.4-2003,						
A3	1. 47 CFR Part 15,						
	2. ANSI C63.17-1998,						
	3. ANSI C63.4-2003,						
A4	1. 47 CFR Part 15,						
	2. ANSI C63.4-2003,						
	e B – Licensed Radio Service Equipment						
B1	1. 47 CFR Parts 2, 22, 24, 25, and 27	!					
	2. ANSI/TIA-603-C (2004)						
B2	1. 47 CFR Parts 2, 22, 74, 90, 95, an	d 97					
	2. ANSI/TIA-603-C (2004)						
B3	1. 47 CFR Parts 2, 80, and 87						
	2. ANSI/TIA-603-C (2004)						
B4	1. 47 CFR Parts 2, 21, 74, and 101						
	2. ANSI/TIA-603-C (2004)						

Country Specific Standards and Other	
ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR equivalents	SABS 1718-1; SANS 21/ISABS CISPR 11; SANS 224/SABS CISPR 24; SANS 213/SABS CISPR 13; SANS 2200; SANS214-1/SABS CISPR 14-1; SANS214-2/SABS CISPR 14-2; SANS 215/SABS CISPR 15; SANS 215/SABS CISPR 15; SANS 225/SABS CISPR 22
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045
Singapore EMC Standards	IDA TS SRD; IDA TS EMC
Japanese VCCI Standards	VCCI V-3, VCCI V-4

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Telecommunications
Telecommunications Registration; General test methods; Lightning surge*; Drop testing*; Balance testing*;
Signal power (metallic and longitudinal)*; Frequency measurements*; Pulse templates*; Leakage testing*;
Impedance testing*; Hearing Aid Compatibility testing (excluding volume control)*; Protocol analysis* and Jitter testing*.

Telecom Standards

North American standards FCC 47 CFR Part 68 Telephone Connection of terminal equipment to the telephone Connection of terminal equipment to the telephone network. Analog and Digital Equipment. TCB Scope C1. Specification for terminal equipment, terminal systems, Network protection devices, connection arrangements and hearing aids compatibility.

Bulletin Part 68 Rationale and Measurement Guidelines Terminal Equipment CS-03 Issue 9 TIA/EIA TSB31-B 1998 (Feb 1998)

TIA-968-A, A1, A2, A3 Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment T1.TRQ.6-2001 to Prevent Harm to the Telephone Network Industry

Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for AS/ACIF S002-2001 AS/ACIF S016-2001 AS/ACIE S031-2001

Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001 Telecommunications Network -Part 1: General Part 2: Broadband

Part 3: DC, Low Frequency AC and Voice band International standards ITU-T G.703

Physical/electrical characteristics of hierarchical Digital interfaces

Hong Kong standards HKTA 2011 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) in Hong Kong Network Connection Specification for Connection of HKTA 2014

Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T

Recommendations

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Telecom Standards	<u>Title</u>	European standards (cont'd)	
HKTA 2028	Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements For pan-European approval for connection to the
	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased	1	telephony service) in which network addressing, if
HVTA 2020	circuits at data rate of 2048 kbit/s Network Connection Specification for Connection of		provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	(DTMF) signaling Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using	121. 1997	Digital Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of		Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	A
	Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits below 64 kbit/s	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment an POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of	ID0002	DS1 Equipment Type Approval Guidelines
	Customer Premises Equipment (CPE) to the Public	IS6100	ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T Recommendation G.992.1	New Zealand standards	Connection to Public Switched Telephone Network
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed		Analogue Lines
	Telecommunications Networks in Hong Kong using	PTC 217	Requirements for Bandwidth Management Devices
	Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Telecom 2048 kbit/s Standard Network Interface
European standards	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation	I TO A TO A DOTA	Subscriber Line (Full-rate ADSL) Modems
	X.21 interface, or at an interface physically,	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data	IDA TS DLCN 1	Subscriber Line Splitterless (G-Lite) Modems Type Approval Specification for Digital Interfaces based on
	signaling rate up to, and including, 1 984 kbit/s	LA IS DECIMI	hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 26
TBR 2: 1997	Attachment requirements for Data Terminal	1	kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT Procommondation V 25 interfaces at data signaling	1	Equipment to Integrated Services Digital Network (ISDN) Basic Access
	Recommendation X.25 interfaces at data signaling rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
	from CCITT Recommendations X.21 and X.21 bit		Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	1	Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
TBR 4: 1995 + Amdt : 1997	connect to an ISDN using ISDN basic access Integrated Services Digital Network (ISDN);	South Africa standards	Equipment to Public Switched Telephone Network (PSTN)
1DK 4. 1995 Allidi . 1997	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access	12 001 (000 1000)	(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network		Network (PSTN)
	Provision (ONP) technical requirements; 2 048 kbit/s		
	digital unstructured leased line (D2048U) Attachment requirements for terminal equipment		
TBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s		
	digital structured leased lines (D2048S); Attachment		
(107 1 G . N. 1007 01) 207 05	requirements for terminal equipment interface	(101.1.5	P. 4.610
(A2LA Cert. No. 1627.01) 3/27/06 Product Safety General test methods:	requirements for terminal equipment interface Page 5 of 10	(A2LA Cert. No. 1627.01) 3/27/06 Product Safety Standards IEC 60825-1 2001	Page 6 of 10 Title Classification, requirements and user's guide.
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTIP*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, Inr flame*, Needle flame*, Hot flaming oil*, Loc	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Crepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm/20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001	<u>-</u> <u>Title</u>
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humildity condition CTJ*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handfel loading*, Liquid overflow*, Spillage*, Liquid leakage*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040, 10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTly*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, Int flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, Wa	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, Int flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage /Clearnace /Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor arranture*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040, 10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage /Clearnace /Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor arranture*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, ilimitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards.	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 2001 IUL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humildity condition CTD*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards. Specific Product Safety Standards	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Lakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 EEC 60950 1999	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, respectively, Pattery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Grounc Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound levely Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1999 IEC 60950 2000	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General Information Technology Equipment - Safety - General
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Molds Component abnormal*, Electric strength*, Int flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 EEC 60950 1999 EN 60950 2000 EEC 60950 12001	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, respectively, Pattery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTD*, Limited power measurement*, Grounc Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, Ir flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 1090 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Batter, verese current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- gg device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 61010 -1: 2004	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, Inf flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEEC 60950 1099 EN 60950 2000 IEEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-10 SEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1993	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ling*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm, ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety information technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part 1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements Fafety - Safety Medical Electrical Equipment - Part 1: General Requirements Fafety - Safety Medical Electrical Equipment - Part 1: General Requirements Fafety - Safety Medical Electrical Equipment - Part 1: General Requirements Fafety - Safety Medical Electrical Equipment - Part 1: General Requirements Fafety - Safety Medical Electrical Equipment - Part 1: General Requirements Fafety - Safety - Safet
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1990 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement,	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 61010 -1: 2004	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety Collateral Standard: Safety
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Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTD*, Limited power measurement*, Groune Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-10 SCSA C22.2 No. 60950-10 SCSA C22.2 No. 60950-10 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2003 IEC 61010-1 2003	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage /Clearnace /Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Isomn / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 61010 -1: 2004	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Requirements For Safety - Section 1-1. Collateral
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C2.2 No. 60950-00 CSA C2.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements Safety Requirements For Medical Electrical Systems Medical Electrical Safety Requirements For Medical Electrical Standard: Safety Requirements Safety Requirements For Medical Electrical Systems Medical Electrical Safety Requirements For Medical Electrical Standard: Safety Requirements For Medical Electrical Safety R
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C2.2 No. 60950-00 CSA C2.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2)	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for laboratory use Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment, Part 1: General requirements for	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 12003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety 1: Collateral Standard: Safety Medical Electrical Equipment, Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950 12001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 EC 60950-1 001 EC 60101-1 1993 EN 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge /voltage ing*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Isoman / Omm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment requirements. Electrical equipment for laboratory use Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Medical Electrical Equipment - Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits*, ilimitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Molds Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/coveloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Ut. 60950 2000 IEC 60950 1999 EN 60950 1909 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 1990 EEC 6100-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2)	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for laboratory use Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment, Part 1: General requirements for	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 12003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety 1: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, ilimitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1990 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 2000 IEC 6000-1 1993 EN 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UC 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1997	requirements for terminal equipment interface Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all copacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment for safety.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CPR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60665: 2003 CSA 60065: 2003	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety : Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety Requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 IEC 60950 1990 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 2000 IEC 60950-1 2001 UL 60950 1995 EN 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 IEC 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1997	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ling*, Creepage / Clearance / Distance thur Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1090-1 21 CFR 1040.10 IEC 60355-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60355-1 1995 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2003 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60605: 2003	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Electrical Electrical Electrical Electrical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety Requirements
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Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety I: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety - Section 1-1. 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Environmental Simulation				
Environmental Simulation			Note 1. For standards or methods listed on the scope of accreditation without a revision date,	laboratories are
Test Technology	Test Standard	Supporting Standards	expected to be competent in the use of the current version within one year of the date of publi	
Accessibility*	IEC 60529	IP-0x thru IP-6x	standard test method or upon the date specified by the standard test method originator when the	
Acoustic Noise*	GR-63-CORE Sec 4.6			
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	implementation authority. When a superseded standard or method is required for an accredited	
Altitude	GR-63-CORE Sec 4.1.3	78	will include the superseded date/version. For those that support the TCB/CB status of the orga-	anization acting
Cold Start*	ETS 300 019	IEC 60068-2-1	as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal	Register
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall not be co	onstrued as an
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in a regulation	
•	GR-63-CORE Sec 4.3			on or code (i.e.
Dust	IEC 60529	IP-5x & IP-6x	the legal requirement) which is adopted by the lab under their responsibility.	
Firearms Resistance Testing	GR-487			
Fire Resistance	ANSI.T1.319		* On-site test service is available for this technology, test, or method.	
	GR-63-CORE Sec 4.2	Fire & Needle Flame		
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &				
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1		
* * * *		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2			
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-30		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1			
Vibration	ETS 300 019	IEC 60068-2-6		
		IEC 60068-2-27		
		IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
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