Curtis-Straus Test Report

Report No EG0903

> Client Dynastream Innovations, Inc.

> > 228 River Ave

Cochrane, Alberta T4C 2C1

403-932-9292 Phone

FRN 0008033557

RSS-210 Issue 6; 47 CFR 15.249

Model SMW1

FCC ID O6RSMW-A IC 3797A-SMWA

Equipment Type Low Power Communications Device Transmitter

Equipment Code DXX

> Results As detailed within this report

Prepared by

Evan Gould - Test Engineer

Authorized by

Michael Buchholz – EMC Manager

Issue Date 8/25/06

Conditions of issue This Test Report is issued subject to the conditions stated in 'terms and conditions'

section of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



REPORT: EG0903-1

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Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.249 and RSS-210(A2.9). The product is the Dynastream Innovations MultiWatch (Model: SMW1). It is a transmitter that operates in the range 2402-2479MHz.

Test Methodology

Radiated emissions testing is performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The standard voltage for the EUT is 3VDC. Fresh batteries were used throughout testing. The environmental conditions are shown below.

Date	Temperature	Humidity
8/7/06	24.7°C	42%
8/8/06	24.8°C	39%

Frequency range investigated: 30MHz – 25GHz

Measurement distance: 30MHz – 8GHz 3m

8 – 25GHz 1m



Statement of Conformity

The SMWA has been found to conform to the following parts of 47 CFR and RSS 210 as detailed below:

RSS-GEN	RSS 210	Part 15	Comments
5.3		15.15(b)	There are no controls accessible to the user that vary 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.
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 is battery powered. So no line conducted emissions were taken.
	A2.9(1)	15.249(a)	The fundamental and harmonics meet the limits in 15.249(a)
	A2.9(2)	15.249(d)	Spurious emissions meet the limits in 15.209.



EUT Configuration

EUT Configuration

Work Order: G0903

Company: Dynastream Innovations, Inc.

Company Address: 228 River Ave

Cochrane, Alberta T4C 2C1

Contact: Curtis Stafford

MN SN

EUT: SMWA 501; 502; 503

EUT Description: MultiWatch **EUT Max Frequency:** 2479MHz

Support Equipment: MN SN

None

EUT Cables: Qty Shielded? Length Ferrites

None

Unpopulated EUT Ports: Qty Reason

None

Software / Operating Mode Description:

SMWA transmits a 200µs pulse continuously in diagnostic TX Mode. In RX Mode, the EUT continuously receives a heart rate ramp waveform from the USB device and updates the LCD readout. The EUT was also programmed with a diagnostic CW Mode to measure the peak fundamental.



Fundamental Measurement

LIMIT

Average: $50\text{mV/m} = 93.9\text{dB}\mu\text{V/m} @ 3\text{m} [15.249(a)]$

Peak: 93.9dBµV/m + 20dB = 113.9dBµV/m @ 3m [15.35(b)]

Note: If Peak measurements meet Average limits, then Average measurements are not required.

MEASUREMENTS

Fundam	ental								Curtis-	Straus LLC		
Date:	07-Aug-06			Company:	Dynastream	nastream Work Order: G0903						
Engineer:	Evan Gould			EUT Desc:	Multi-Watch							
	Freque	ncy Range:	2400-2483.5	5MHz			Measureme	nt Distance:	3 m			
Notes:	Duty cycle = 4	1.2%; Averag	ging factor = 2	20dB		RBW: 1MHz						
		-	_	VBW: 3MHz								
Antenna			Preamp	Antenna	Cable	e Duty Cycle Adjusted 15.249(a); RSS-210 A2.9						
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	2457.0	64.5	0.0	29.9	2.6	0.0	97.0	113.9	-16.9	Pass		
Hav	2457.0	64.5	0.0	29.9	2.6	20.0	77.0	93.9	-16.9	Pass		
Hpk	2479.0	64.4	0.0	29.9	2.6	0.0	96.9	113.9	-17.0	Pass		
Hav	2479.0	64.4	0.0	29.9	2.6	20.0	76.9	93.9	-17.0	Pass		
Hpk	2402.0	63.7	0.0	29.7	2.5	0.0	95.9	113.9	-18.0	Pass		
Hav	2402.0	63.7	0.0	29.7	2.5	20.0	75.9	93.9	-18.0	Pass		
Table	e Result:	Pass	by	-16.9	dB		W	orst Freq:	2457.0	MHz		
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-HIGH 1	10	Analyzer:	Orange	Antenna:	Orange Horn		



Band Edge Measurements

LIMITS

Average: 50dB below level of Fundamental OR

General radiated emission limits of 15.209

"...whichever is the lesser attenuation." [15.249(d)]

Peak: {Average limit} + 20dB [15.35)b)]

Note: If Peak measurements meet Average limits, then Average measurements are not required.

MEASUREMENTS

Band Ed	ges								Curtis-	Straus LLC
Date:	07-Aug-06		Company: Dynastream Work Order: G0903							
Engineer:	Evan Gould			EUT Desc: Multi-Watch						
	Freque	ncy Range:	2400-2483.	.5MHz			Measuremer	nt Distance:	3 m	
Notes:	Duty cycle = 4	e = 4.2%; Averaging factor = 20dB RBW: 1MHz								
	VBW: 3MHz									
Antenna			Preamp Antenna Cable Duty Cycle Adjusted 15.209(a); RSS-210 Table 2							
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)
High Band Edg	e (Transmittin	g on 2479MH:	<u>z)</u>							
Hpk	2483.8	39.8	0.0	30.0	2.6	0.0	72.4	74.0	-1.6	Pass
Hav	2483.8	19.8	0.0	30.0	2.6	20.0	52.4	54.0	-1.6	Pass
Low Band Edge	e (Transmitting	g on 2402MHz	·)							
Hpk	2400.0	17.9	0.0	29.7	2.5	0.0	50.1	54.0	-3.9	Pass
Table	Table Result: Pass by -1.6 dB Worst Freq: 2483.8 MHz						MHz			
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-HIGH	1 10	Analyzer:	Orange	Antenna:	Orange Horn



Radiated Spurious Emissions

LIMITS

Average: $500\mu V/m = 53.9dB\mu V/m @ 3m [15.249(a), (b), and (d)]$

Peak: $53.9 dB \mu V/m + 20 dB = 73.9 dB \mu V$ @ 3m [15.249(d)]

Note: If Peak measurements meet Average limits, then Average measurements are not required.

MEASUREMENTS

Radiated	Emissio	ons Tab	le						Curtis-	Straus LLC
Date:	07-Aug-06			Company:		1	Nork Order:	G0903		
Engineer:	Evan Gould			EUT Desc:	Multi-Watch					
	Freque	ncy Range:	30MHz - 250	GHz .			Measurem	ent Distance:	1 m	
Notes:	Notes: TX Mode RBW:									
	Duty cycle = 4	1.2%; Averag	VBW:	3MHz						
Antenna			Preamp	Antenna	Cable	Duty Cycle	Adjusted	15.209	(a); RSS-210	Table 2
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)
Vpk	2811.4	32.1	0.0	30.2	2.6	0.0	64.9	83.5	-18.6	Pass
Vav	2811.4	16.3	0.0	30.2	2.6	0.0	49.1	63.5	-14.4	Pass
Vpk	4804.0	30.1	0.0	33.8	3.8	0.0	67.7	83.5	-15.8	Pass
Vav	4804.0	30.1	0.0	33.8	3.8	20.0	47.7	63.5	-15.8	Pass
Vpk	7206.0	32.1	0.0	37.1	4.9	0.0	74.1	83.5	-9.4	Pass
Vav	7206.0	32.1	0.0	37.1	4.9	20.0	54.1	63.5	-9.4	Pass
Vpk	9608.0	61.3	39.0	38.4	5.5	0.0	66.2	83.5	-17.3	Pass
Vav	9608.0	61.3	39.0	38.4	5.5	20.0	46.2	63.5	-17.3	Pass
Tabl	e Result:	Pass	Pass by -9.4 dB Worst Freq: 7206.0 MHz							MHz
30-1000MHz	>>	Pre-Amp:	Black	Cable:	EMIR-04	Analyzer:	Green		Antenna:	Red-White
1-8GHz >> Pre-Amp: none Cable: EMIR-HIGH 10 Analyzer: Orange						Orange		Antenna:	Orange Horn	
8-18GHz	>>	Pre-Amp:	Brown	Cable:	EMIR-HIGH 10	Analyzer:	Orange		Antenna:	Orange Horn
18-25GHz	>>	Pre-Amp:	Yellow	, ,				White Horn		

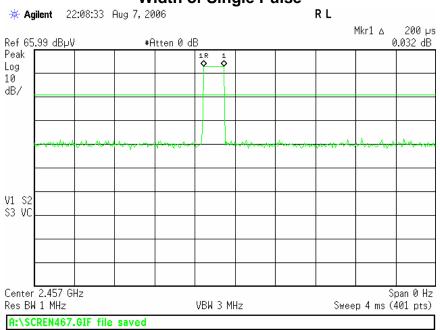
Radiated	l Emissi	ons Tab	le					Curtis-	Straus LLC		
	07-Aug-06	8-Aug-06		Company:	Dynastream		1	Nork Order:	G0903		
Engineer:	Engineer: Evan Gould EUT Desc: Multi-Watch										
	Freque	ncy Range:	30MHz - 25GH	łz		Measureme	ent Distance:	1 m			
Notes:	Notes: RX Mode RBW: 1MHz VBW: 3MHz (pk) 10Hz (av)										
Antenna			Preamp	Antenna Cable Adjusted 15.209(a); RSS-210 Table 2							
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result		
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)		
Vpk	2811.4	68.7	38.7	30.2	2.6	62.8	83.5	-20.7	Pass		
Vav	2811.4	42.4	38.7	30.2	2.6	36.5	63.5	-27.0	Pass		
Table	e Result:	Pass	by	-20.7	dB	W	orst Freq:	2811.4	MHz		
30-1000MHz	>>	Pre-Amp:	Black	Cable: EMIR-04 Analyzer: Green Antenna: Red-White							
1-8GHz	>>	Pre-Amp:	none	Cable: EMIR-HIGH 10 Analyzer: Orange Antenna: Orange Ho					Orange Horn		
8-18GHz	>>	Pre-Amp:	Brown	Cable:	Cable: EMIR-HIGH 10 Analyzer: Orange Antenna: Orang				Orange Horn		
18-25GHz	>>	Pre-Amp:	Yellow	Cable:	EMIR-HIGH 10	Analyzer:	Orange	Antenna:	White Horn		



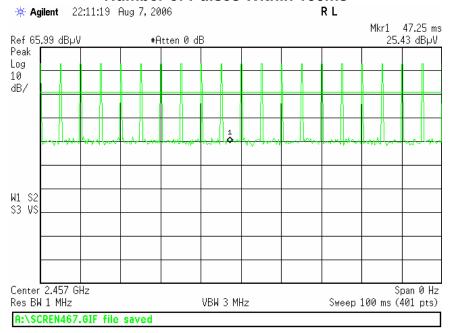
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Duty Cycle MEASUREMENTS

Width of Single Pulse



Number of Pulses Within 100ms



Duty Cycle = $(200\mu s \times 21)/100ms = 4.2ms/100ms = 4.2\%$



Test Equipment Used

Test Equip							RE	v. 02-AUG	9-2006	
SPECTRUM ANAL RECEIVER		RANGE	MN	MFR	SN		ASSET	Ca ⁻	Г	CALIBRATION DUE
RED		9kHz-1.8GHz	8591	E HP	3441A03	3559	00024	1		30-DEC-2006
WHITE		9kHz-22GHz	8593		3547U01		00022	i		14-MAR-2007
BLUE		9kHz-1.8GHz	8591		3223A00		00070	i		14-DEC-2006
YELLOW		9kHz-2.9GHz	8594		3523A01		00100	i		05-JUN-2007
GREEN		9kHz-26.5GHz			3829A03		00143	i		21-NOV-2006
BLACK		9kHz-12.8GHz			3710A00		00337	i		02-NOV-2006
TELECOM 35	85Δ	20Hz-40.0MHz			2504A05		00030	i		07-FEB-2007
TELECOM 35		20Hz-40.0MHz			1750A03		00558	1		23-MAY-2007
TELECOM 35		20Hz-40.0MHz			1750A02		01067	- :		01-MAR-2007
ORANGE		9kHz-26.5GHz			US39440		00394	- :		28-JUL-2007
BROWN (REN		9kHz-26.5GHz			SG44210		Rental	1		05-JAN-2007
EMI TEST REC		20-1000MHz	ESVS		827957/		01098	1 I		27-OCT-2006
EIVII TEST REC	EIVER	20-1000IVIH2	ESVS	30 Kas	02/93//	001	01096			27-001-2006
LISNS/MEASURE	MENT	PANCE		ЛN	MFR	SN		Accet	CAT	CALIDDATION DUE
PROBES		RANGE						ASSET	CAT	
RED		10kHz-30MHz 10kHz-30MHz		R-24-BNC	SOLAR	95634 95634		00753 00752	II II	05-MAY-2007
BLUE (DC) YELLOW-BLAC				R-24-BNC	SOLAR				II.	05-MAY-2007
		10kHz-30MHz		R-24-BNC	SOLAR	98473		00248	II.	05-MAY-2007
ORANGE		10kHz-30MHz		R-24-BNC	SOLAR	90370		00754	II	05-MAY-2007
GOLD (DC)		10kHz-30MHz		R-24-BNC	SOLAR	98473	4	00247	II.	05-MAY-2007
Brown		10kHz-30MHz		R-24-BNC	SOLAR	041165		00986	II	05-MAY-2007
GREEN		10kHz-30MHz		R-24-BNC	SOLAR	041165		00987	II	08-MAY-2007
YELLOW		10kHz-30MHz		R-24-BNC	SOLAR	041165		1080	II	05-MAY-2007
WHITE-BLACK		10kHz-30MHz		-TS-100-N	SOLAR	97201		00678	II	05-MAY-2007
BLACK		10kHz-30MHz		-TS-100-N	SOLAR	97201		00675	II	05-MAY-2007
RED-BLACK		10kHz-30MHz		-TS-100-N	SOLAR	97201		00677	II	05-MAY-2007
Blue-Black		10kHz-30MHz	8610-50	-TS-100-N	SOLAR	97201	8	00676	II	05-MAY-2007
BLUE MONITORING	Probe	0.01-150MHz	915	550-2	TEGAM	12350)	00807	- 1	26-MAY-2007
YELLOW MONITORING	PROBE	0.01-150MHz	915	550-2	ETS	50972	2	00493	- 1	23-JAN-2008
GREEN CURRENT TRANS	SFORMER	40Hz-20MHz	1	50	PEARSON	10226	6	00793	- 1	07-APR-2007
BLUE CISPR LINE F	ROBE 1	150kHz-30MHz	N	√A	C-S	N/A		00805	II	08-JUN-2007
BLACK CISPR LINE I	PROBE 1	150kHz-30MHz	N	√A	C-S	N/A		NONE	II	08-JUN-2007
CISPR TELCO VOLTAG	E PROBE	10kHz-30MHz	CS A	VC-10	C-S	CS01		00296	II	30-SEP-2006
CISPR 22 TELCO	ISN	9кHz-30MHz	FCC-T	LISN-T4	FISCHER	20115		00746	I	26-OCT-2006
00511 ADE 1 To	C: (O.4	TO	F00.0a	\	10.0005	\/00!	0005			Caupparion Dur
OPEN AREA TE	TE F	113)	FCC Cc 93448		IC CODE		CODE 688	CAT II		O4-APR-2007
	TE T		93448		IC 2762-T		905	ii		14-AUG-2007
	TE A		93448		IC 2762-A		903	ii		13-AUG-2007
	те М		93448		IC 2762-M		904	ii		19-MAR-2007
	TE J		93448		IC 2762A-10	11	JU-T	ii		11-APR-2008
- Ji	TE J		33440	<u> </u>	10 21 02A-10			- 11		11-A1 10-2000
LINE CONDUC	TED TEST SIT	TES	FCC Cc	DDE	IC CODE	VCC	CI CODE		Сат	CALIBRATION DUE
Ei	MI 1		93448	3	N/A	C	-1801		III	NA
Ef	MI 2		93448	3	N/A		-1802		Ш	NA
	MI 3		93448		N/A	C	-1803		Ш	NA
Mixens/Diplexens	Davion	R A S 1		Mes		2NI	Α.	0057	C . =	CALIDDATICS
MIXERS/DIPLEXERS MIXER / HORN	RANGE 26.5-40 GHz	MN 2 11970A/28	-442-6	MFR HP/ATM		SN 5/A046903-0		SSET 087	CAT	CALIBRATION DUE 23-AUG-2006
MIXER / HORN	26.5-40 GHz			HP/ATM		5/A046903-0		086	i	23-AUG-2006 23-AUG-2006
MIXER / HORN	40-60 GHz			OML)110-1		0821	i	02-MAR-2007
MIXER / HORN	33-50 GHz	11970		HP		A03155		0104	- 1	08-NOV-2007
MIXER / HORN	50-75 GHz			HP/QuinStar		AU3155 197/8794001		179	- 1	15-NOV-2007
MIXER / HORN	75-110 GHz			HP HP		A01334		0105	- 1	22-NOV-2007
MIXER / HORN	60-90 GHz			OML)110-1		0103	- 1	03-MAR-2007
	90-140 GHz								-	
MIXER / HORN				OML		206-1		0811	l II	03-MAR-2007
Mixer / Horn Diplexer	140-220 GHz 40-220 GHz			OML OML		206-1 N/A		0812 0813	II I	03-MAR-2007
		D. L.2		JL	<u> </u>					22 2001
ABSORBING	DANCE		MN		MFR	SN	٨٥٥٢	т	Сат	CALIBRATION DUE
C LAMPS	RANGE		IVIIN		IVICIN	SIN	ASSE	ı	GAT	CALIDRATION DUE
FISCHER CLAMP	30-1000M	Hz F-20	01-23мм	F	ISCHER	10	0008	1	ı	20-JAN-2008
										== == == == ==



HARMONIC & FLICKER AN	IALYZER	MN		MFR		SI			ASSET	Сат	CALIBRATION DUE
HFTS		HP6842A		HP			00169		0738	II	30-DEC-2007
10001I/2 AC POWER SYS	STEM	(2) 5001	CALIFO	RNIA INSTRUMENT	rs HK5	3687/	HK5368	38 0	0376	II	09-JAN-2008
PREAMPS / ATTENUATORS FILTERS	r/ R	ANGE		MN	Mi	FR		SN	ASSET	Сат	CALIBRATION DU
RED	0.10-2	2000MHz	ZFL	-1000-LN	C-	·S		N/A	00798	II	28-JUL-2007
BLUE	0.01-2	2000MHz	ZFL-	-1000-LN	C-			N/A	00759	II	20-JUL-2007
BLUE-BLACK	0.01-2	2000MHz	ZFL-	-1000-LN	C-			N/A	00800	II	04-JAN-2007
GREEN	0.01-2	2000MHz	ZFL-	-1000-LN	C-			N/A	00802	II	20-JUL-2007
BLACK	0.01-2	2000MHz	ZFL-	-1000-LN	C-			N/A	00799	II	20-JUL-2007
ORANGE	0.01-2	2000MHz		-1000-LN	C-			N/A	00765		28-DEC-2006
WHITE	1-2	20GHz	SN	/IC-12A	C-		42	26643	00760	II	22-JUL-2007
Brown	1-2	20GHz	PM2-38-218	8-4R5-17-15-SFF			PΙ	_1655	1132	II	14-APR-2007
YELLOW-BLACK	1-2	20GHz	SN	/IC-12A	C-	·S	53	35055	00801	II	22-JUL-2007
RED-GREEN	1-2	20GHz	PM2-38-218	8-4R5-17-15-SFF						II	30-MAY-2007
HF (YELLOW)	18-2	26.5GHz	AFS4-180	02650-60-8P-4	C-		46	67559	00758		23-AUG-2007
HIGH PASS FILTER		18 GHz	SPA	-F-55204	K8			36	00817		05-JAN-2008
Low Pass Filter		9 GHz		100/X4400-O/O	K8			4	00816		05-JAN-2008
HF 20dB 50W ATTENUATOR		-20 GHz		7019-20	PASTE			01	00791	ii	10-MAY-2007
HF 30DB 50W ATTENUATOR		-20 GHz		7019-30	PASTE			02	1168	ii	10-MAY-2007
Low Freq LPF		100kHz		00K1G1	Micro	WAVE	4460-0	01 01 DC0432		ii	OUT OF SERVICE
					CIRC MICRO			01 DC0434			
Low Freq LPF	10-	100кHz	L2(00K1G1	CIRC		4///-(U UCU434	1088	II	OUT OF SERVIC
ANTENNAS	RANGE	_	MN	MFR	SN		ASSET	Сат		CALIDO	ATION DUE
GREEN BILOG	30-2000M		.6112B	CHASE	2742		00620	II			AN-2008
GREEN-BLACK BILOG	30-2000N		-6112B	CHASE	2412		00020	ii			AN-2008
GREEN-BLACK BILOG	30-2000N	_	-6112B	CHASE	2412		00127	"			PR-2008
BLUE BILOG	30-2000N	_	3143	EMCO	1271		00803	İ			AY-2007
GRAY BILOG	20-2000N		3143 3141	EMCO	9703-103		00006	ii	06-MAV-		N -2007 I) / 30-JUN-2007(RFI
YELLOW-BLACK BILOG	20-2000N		-6140A	CHASE	1112		00126	ii			II) / 01-MAY-2007(RF
RED-WHITE BILOG	30-2000N		JB1	SUNOL	A091604		01105	ii	00-WA 1 -		PR-2008
RED-WHITE BILOG	30-2000N		JB1	SUNOL	A091604		01106	ii			PR-2008
RED-BLACK BILOG	30-2000N		JB1 JB1	SUNOL	A003240		1218	ï.			AR-2008
YELLOW HORN	1-18GH		3115	EMCO	9608-489		00037	- 1	27 MAV		AK-2000 I) / 18-MAY-2007 (RI
BLACK HORN	1-18GH		3115 3115	EMCO	9703-514		00057	i	21-IVIA 1-		UN-2007
ORANGE HORN	1-18GH		3115 3115	EMCO	0004-612		00390	i			UN-2007
HF (WHITE) HORN	18-26.5G		I-WLM	WAVELINE	0007-012		00758	i			UG-2007
SMALL LOOP	10-20.30 10kHz-30N		1-10/A	ARA	1024		00755	i			EB-2008
LARGE LOOP	20Hz-5M		5511	EMCO	9704-11		00067	i			AN-2008
ACTIVE MONOPOLE	30Hz-30M		301B	EMCO	3824		00068	ii			PR-2007
INDUCTION COIL	50-60H		00-4-8	C-S	N/A		00778	ii			EP-2007
ADJUSTABLE DIPOLE	30-1000N	-	121C	EMCO	1370		00757	ii			AR-2007
ADJUSTABLE DIPOLE	30-1000N	_	121C	EMCO	1371		00756	ii			AR-2007
RE101 LOOP SENSOR	30Hz-100	_	1-13.3cm	C-S	N/A		00730	ii			AR-2007
RS101 RADIATING LOOP	30Hz-100		01-12CM	C-S	N/A		00819	ii			AR-2007
RS101 LOOP SENSOR	30Hz-100		01-4CM	C-S	N/A		00820	ii			AR-2007
EFT		MN		MFR			SN		ASSET	Сат	CALIBRATION DU
EFT DIRECT COUPLING C	AP	N/A		C-S			01		00794	<u>II</u>	06-FEB-2008
ESD GENERATORS		MN		MFR		SN		ASSET	Сат		CALIBRATION DUE
GREEN		NSG435		SCHAFFNER	?	00083	19	00763	I	<u> </u>	02-MAR-2007
RED		NSG435		SCHAFFNER		00003		00762	i		06-JAN-2007
YELLOW		930D		ETS		201		00673	i		18-AUG-2007
BEST EMC-2 MN		MFR	SN	Asset					CALIBRAT		
BLUE 711-1		CHAFFNER	199824-00			05-J			•) / 05-AUG-2006 (EF
RED 711-1	100 Sc	CHAFFNER	200122-0	74SC 00623	B II		31-N	1AR-2007	(Surge / D-	+I) / 07-AF	PR-2007 (EFT)
CHAMBERS AND STRIPLIN	F	MN		MFR		SN	Δα	SSET	Сат	C/	ALIBRATION DUE
RFI 1 CHAMBER		METER COI	ADACT.	PANASHIE	=1.D	N/A)797	II		01-MAY-2007
RFI 2 CHAMBER		K 07' SHIELDIN		LINDGRE		1332)795	ii		30-JUN-2007
RFI 3 STRIPLINE	0-7	N/A	O O I O I EIVI	C-S	_14	N/A)796	iii	`	NA
FNI/IDONMENTAL (SAFETY)		FCI 5		R-M-Δ IN	ıc	204		1020 1020	1		11_ IAN_2007



11-JAN-2007

B-M-A INC.

B-M-A Inc.

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ENVIRONMENTAL (SAFETY)

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AMPLIFIERS	RANGE	MN	MfR	SN	ASSET	Сат	CALIBRATION DUE
RED	0.5-1000MHz	10W1000B	AR	18708	00032	Ш	26-APR-2007 (RFI1)
GREEN	0.5-1000MHz	10W1000B	AR	23423	00123	П	13-APR-2007 (RFI2)
BLUE	0.01-250MHz	75A250	AR	19165	00039	Ш	05-APR-2007 (EUCRFI) / 12-DEC-2006 (NEBS CRF
BLACK	0.01-250MHz	75A250	AR	23411	00122	Ш	05-APR-2007 (EU CRFI) / 12-DEC-2006 (NEBS CRF
ORANGE	0.01-250MHz	75A250	AR	26827	00367	II	05-APR-2007 (EU CRFI) / 12-DEC-2006 (NEBS CRFI 01-MAY-2007 (RFI1)
BROWN 150W	0.1-250MHz	150A250	AR	313454	RENTAL	Ш	30-JUN-2007 (RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5016A	GTC	1221	RENTAL	Ш	18-MAY-2007
HUGHES 10W	2.0-4.0GHz	1177H01	Hughes	055	RENTAL	Ш	18-MAY-2007
HUGHES 10W	4.0-8.0GHz	8010H02F	Hughes	240	RENTAL	Ш	18-MAY-2007
HUGHES 10W	8-10.0GHz	80108	Hughes	138	RENTAL	Ш	18-MAY-2007
HP495A	7.0-10.0GHz	HP495A	HP	304-00237	00086	П	OUT OF SERVICE (SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	700438	NONE	Ш	NA
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	708545	00862	Ш	NA

FIELD PROBES	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RED	0.01-1000MHz	HI-4422	HOLADAY	90369	00031	I	01-MAR-2007
GREEN	0.01-1000MHz	HI-4422	HOLADAY	97363	00136	I	25-JUL-2007
BLUE	0.01-1000MHz	HI-4422	HOLADAY	95696	01100	I	25-MAR-2007

SIGNAL GENERATORS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
RED	0.09-2000MHz	HP8648B	HP	3847U02192	00366	I	28-FEB-2007
BLUE	0.1-1000MHz	HP8648A	HP	3426A00548	00034	1	25-AUG-2006
GREEN	0.09-2000MHz	HP8648B	HP	3623A02072	00125	1	17-OCT-2006
ORANGE	0.1-1000MHz	HP8648B	HP	3537A01210	00025	1	29-JUN-2007
Brown	0.01Hz-15MHz	HP33120A	HP	US36016621	1211	1	23-NOV-2006
WHITE (NEW)	0.01Hz-15MHz	HP33120A	HP	US36048143	1219	1	10-MAY-2007
BLUE-WHITE	0.1Hz-13MHz	HP3312A	HP	1432A07632	00775	1	11-MAR-2007
SWEEPER	0.01-20.0GHz	HP83752A	HP	3610A01133	00087	П	02-MAY-2007
AM/FM STEREO SIG. GEN.	0.1-170MHz	LG3236	LEADER	3687301	00959	1	30-AUG-2006
IMPULSE GENERATOR	1-100Hz	CIG-25	ELECTRO-METRICS	290	00942	1	05-AUG-2007

BULK INJECTION CLAMPS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
GREEN	0.01-100MHz	95236-1	ETS	50215	00118	II	05-APR-2007 (EU) /16-DEC-2006 (NEBS)
RED	0.01-100MHz	95236-1	ETS	34026	1020	II	05-APR-2007 (EU) /16-DEC-2006 (NEBS)

CDN NETWORKS	RANGE	MN	MFR	ASSET	Сат	CALIBRATION DUE
BLACK	0.10-100MHz	20A M-2 (DC)	C-S	00783	II	OUT OF SERVICE
BLUE	0.10-100MHz	15A M-3	C-S	00806	II	10-JAN-2007
ORANGE	0.10-100MHz	15A M-2	C-S	00786	II	OUT OF SERVICE
RED	0.10-100MHz	15A M-3	C-S	00780	II	10-JAN-2007
WHITE	0.10-100MHz	15A M-3	C-S	00782	II	OUT OF SERVICE
YELLOW-BLACK	0.10-100MHz	15A M-3	C-S	00784	II	10-JAN-2007
GREEN	0.10-100MHz	30A M-3	C-S	00779	II	OUT OF SERVICE
YELLOW	0.10-100MHz	30A M-5	C-S	00804	II	05-APR-2007
BLUE-WHITE	0.10-100MHz	15A M-5	C-S	00788	II	OUT OF SERVICE
Brown	0.10-100MHz	M-3	C-S	1169	II	10-JAN-2007
BROWN-WHITE	0.10-100MHz	M-3	C-S	1170	II	10-JAN-2007
BROWN-BLACK	0.10-100MHz	M-2 (DC)	C-S	1171	II	10-JAN-2007
RED-BLACK	0.10-100MHz	M-2 (DC)	C-S	1177	II	11-MAY-2007
GREEN-WHITE	0.15-80MHz	M-2 (DC)	C-S		II	01-AUG-2007
YELLOW (RES)	0.10-100MHz	100Ω RESISTOR NWK (M-1)	C-S	00810	II	05-OCT-2006
GREEN (RES)	0.10-100MHz	100Ω RESISTOR NWK (M-1)	C-S	1172	II	30-JAN-2007

OSCILLOSCOPES	MN	MFR	SN	ASSET	CAT	CALIBRATION DUE
EMC 100MHz	TDS 220	TEKTRONIX	C036986	1166	ı	26-AUG-2006
ESD REFERENCE 1GHz	TDS 684B	TEKTRONIX	B011287	RENTAL	1	31-MAR-2007
PRODUCT SAFETY 100 MHz	TDS 340	TEKTRONIX	B012357	00737	1	06-OCT-2006
TELECOM 100 MHz	54645A	HP/AGILENT	US36320452	00103	I	30-JUN-2007

ANSI T1.315	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
SBC Noise Cart		C-S			III	CALIBRATION NOT REQUIRED
SBC TRANSIENT CART		C-S			III	WAVESHAPE VERIFIED BEFORE USE



RMS VOLTMETERS/CURRENT C	LAMP	MN	Mnfr		SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS MULTIMETER		79111	FLUKE	71	700298	00769	1	25-OCT-2006
	TRUE-RMS MULTIMETER (REFERENCE)		FLUKE		390024	00973	i	21-MAR-2007
TRUE-RMS MULTIMETER		177 177	FLUKE		390025	00974	i	10-MAR-2007
TRUE-RMS MULTIMETER (TELECO	(M	177	FLUKE		430419	00975	i	21-MAR-2007
THEE TAND MEETING TER (TELEOR	JWI)		1 LOILE		100110	00010	<u> </u>	21 100 11 2007
Surge Generators		MN	l	MFR	SN	ASSET	Сат	CALIBRATION DUE
TRANSIENT WAVEFORM MON	ITOR	TWM	I-5	CDI	003982	00323	ll l	05-JUN-2007
UNIVERSAL SURGE GENERA	TOR	M5	,	CDI	003966	00324	II	OUT OF CAL
THREE PHASE COUPLING N	WK	3C1	٧	CDI	003455	00325	II	OUT OF CAL
1.2x50uS Plugin Modul		1.2x50uS		CDI	N/A	00842	ii	OUT OF CAL
10x160uS PLUGIN MODU		10x160uS		C-S	N/A	00843	ii	08-JUN-2007
10x560uS Plugin Modu		10x1600S		C-S	N/A	00841	ii	08-JUN-2007
PSURGE CONTROLLER MOD		PSURGE		HAEFELY	150267	00879	ii	06-JUN-2007
Coupling/Decoupling Moi		PCD 9		HAEFELY	149213	00880	ii	06-JUN-2007
IMPULSE MODULE	JULE	PIM 9		HAEFELY	149213	00881	ii	06-JUN-2007
	O 40 E	CS-H\			01	00001		28-SEP-2006
HIGH VOLTAGE CAP NWK 5KVD	-, -,-			C-S			II 	
NEBS SURGE GENERATO		N/A		C-S	N/A	00088	II.	06-JUN-2007
2x10uS Surge Generate		2x10		C-S	N/A	00846	II	06-JUN-2007
10x700uS Surge General		10x70		C-S	N/A	00847	II.	08-JUN-2007
12 PAIR SURGE RESISTOR MO	DULE	N/A	١	C-S	N/A	00768	II	30-SEP-2006
Dawer Marco Morro		NAN!	14		011	A	0	O
Power/Noise Meters		MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
Power Meter		435B	HP		l45A11012	00773	ı	12-APR-2007
Power Meter		437B	HP		912A01367	01099	I	12-APR-2007
Power Sensor		8481A	HP	27	'02A61351	00774	ı	12-APR-2007
PSOPHOMETER		2429	BRUEL & KJ	IAER	1237642	00585	II	14-FEB-2007
TRANSMISSION LINE TESTER (DBF	NC)	185T	AMREL	•	998658	00823	II	16-MAR-2007
0						A	0:-	0
OVERVOLTAGE CHAMBERS	MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
72kW Power Fault Simulator	OV1	C-S		N/A		00792	II	31-MAR-2007
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	II	31-MAR-2007
DIPOLE TAPE MEASURES	Λ.	1N	MFR		SN	ASSET	Сат	CALIBRATION DUE
26FT TAPE #1		BCME	LUFKIN	<u> </u>	C3166-1	00776	I	13-MAR-2007
26FT TAPE #1 26FT TAPE #2		BCME	LUFKIN		C3166-1	00776	I I	13-MAR-2007
ZOFT TAPE #Z	2330	OCIVIL	LUFKIN	Į.	C3100-2	00111	ı	13-WAK-2007
METEOROLOGICAL METERS	;	MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE G		7400 PERCEPTION		Davis	N/A	00965	II	08-FEB-2007
TEMPERATURE /HUMIDITY GAUG		THG-912	-	HUGER	4000562	00789	ï	01-FEB-2007
WEATHER CLOCK (PRESSURE ON		BA928	-	N SCIENTIFIC	C3166-1	00831	i	02-FEB-2007
`								
CONSUMABLES	S	PEC.	MFR	S	тоск/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHEESECLOTH	26-	28M/KG	ED&D		ACC-01	N/A	III	N/A
						N/A	Ш	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
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST



ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2) #684340 v13CS



A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

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

Valid until: July 31, 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 Safety tests:

Electromagnetic Compatibility (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 measurement*; Frequency Stability Measurements*; Longitudinal
Induction measurements*; Harmonic 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-03; 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 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14-1; AS/NZS 1044; 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."

(A2LA Cert. No. 1627.01) 3/27/06

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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-CORF: GR-78-CORF (ESD)

Family Product or Industry Specific Specifications including emissions and/or immunity	GR-1089-C-ORE; GR-78-C-ORE (ESD) ENSO081-1; ENSO082-2; ENSO082-2; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 5009-12; EN 55024; C1SPR 24 EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50130-4; EN 50812-2; EN 60601-2-32; EN 60601-2-23; EN 60601-2-34; EN 60601-2-33; EN 60601-2-38; EN 60601-2-34; EN 5000-3; EN 61800-3; EN 55020; C1SPR 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 60609-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283; C624)
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-181; 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 Rad	dio Standards	RTTE 01 (DGT-Taiwan);	
FCC Star	ndards and Test methods Support TC	B Status	
	pe A – Unlicensed Radio Frequency Dev		
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,		
FCC Scop	oe B – Licensed Radio Service Equipme	nt	
B1	1. 47 CFR Parts 2, 22, 24, 25, a	nd 27	
	2. ANSI/TIA-603-C (2004)		
B2	1. 47 CFR Parts 2, 22, 74, 90, 9	5, and 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 1	01	
	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; SANS 214-2/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 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 Title North American standards FCC 47 CFR Part 68 Telephone Terminal Equipment CS-03 Issue 9 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 TIA/EIA TSB31-B 1998 Bulletin Part 68 Rationale and Measurement Guiueins (Feb 1998)

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 TIA-968-A, A1, A2, A3 T1.TRO.6-2001 to Prevent Harm to the Telephone Network Industry

Australia standards AS/ACIF S002-2001 Analogue interworking and non-interference Analogue interworking and non-interretence requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface AS/ACIF S016-2001

AS/ACIF S031-2001 AS/ACIF S038-2001 Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a 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

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

Recommendations

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Telecom Standards	<u>Title</u>	European standards (cont'd)	
HKTA 2028	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
	CPE to the PTNs in Hong Kong using digital leased		For pan-European approval for connection to the
HIZT 4 2020	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased		(PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if
	circuits at data rate of 2048 kbit/s		provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Network Connection Specification for Connection of		(DTMF) signaling
	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits at nx64 kbit/s		Digital Unstructured and structured leased lines (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)	
	Telecommunications Network (PTN) in Hong Kong using	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and
HIZTA 2022	Digital Leased Circuits below 64 kbit/s	100003	POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public	ID0002 IS6100	DS1 Equipment Type Approval Guidelines 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	, , , , , , , , , , , , , , , , , , , ,	Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	
HKTA 2033	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Fixed	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to 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
	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards			
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	Town Assessed Secretication for Assessed Digital
	Be connected to circuit switched data networks and Leased circuits using a CCITT Recommendation	IDA TS ADSL	Type Approval Specification for Asymmetric Digital 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		Subscriber Line Splitterless (G-Lite) Modems
	Recommendation X.21 but operating at any data	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based on
TDP 2: 1007	signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal		hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
TBR 2: 1997	Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	kbit/s Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT	LA 10 10DN 1	Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling		Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
TDD 2, 1005 : Ak , 1007	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); Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Primary Rate Access (PRA) Type Approval Specification for connection of Terminal
	connect to an ISDN using ISDN basic access	IDA 13 131N (non-voice only)	Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	-q-p
	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
TDD 012 1002 - A - It 1006	connect to an ISDN using ISDN primary rate access		(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s		Network (PSTN)
	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		
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Product Safety		Product Safety Standards	Title
General test methods:	esibility* Darmissibly limits* Engray bayard	IEC 60825-1 2001	Classification, requirements and user's guide.
General test methods: Power input*, Permanence of marking*, Acces	ssibility*, Permissibly limits*, Energy hazard Limited current*. Capacitor Discharge / voltage	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5	Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
General test methods: Power input*, Permanence of marking*, Acce. measurement*, SELV circuits*, TNV limits*,	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding	IEC 60825-1 2001	Classification, requirements and user's guide.
General test methods: Power input*, Permanence of marking*, Acce- measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clerance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995	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
General test methods: Power inputs, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AMZ – 1997 & AM 12 – 1997)	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
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st. Component abnormal*, Electric strength*, Implame*, Needle flame*, Into flaming oil*, Loci	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clerance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*,	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We	Limited current*, Capacitor Discharge / voltage ng*, 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 ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	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	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
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hof flaming oil*, Locl Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorms	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 14*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	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	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
General test methods: Power input*, Permanence of marking*, Accemeasurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Implame*, Needle flame*, Hof flaming oil*, Locl Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorms	Limited current*, Capacitor Discharge / voltage ng*, 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 ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	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 UL 61010A-1: 2002	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ**, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Locl Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin	Limited current*, Capacitor Discharge / voltage ng*, 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 ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, lt*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	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	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
General test methods: Power input*, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards.	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 14*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	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 CANICSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	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
General test methods: Power inputs, Permanene of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, subse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, subse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm sed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, it,*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title	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 EN 61010-1: 2001 AS/NZS 60950: 2000	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
General test methods: Power inputs, Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTJ*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/over/loads*, Rain test*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment	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 CANICSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	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 test methods: Power inputs, Permanene of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sess*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 IEC 60335-1 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	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
General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loci Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormatyply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousits cound 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*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	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 EN 61010-1: 2001 AS/NZS 60950: 2000	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
General test methods: Power inputs' Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnorma upply 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 2001 UL 60950-1 2003	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sess*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, Capacitor short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 60335-1 1997 IEC 60335-1 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	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
General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Ut 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22-2 No. 60950-00	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousits cound 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*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, including	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 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004	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
General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, til*, Capacitor short circuit abnormal*, Multi- g 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.	IEC 60825-1 2001 IEC 60825-2 1907-11 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 EN 60950-1: 2001 AS/NZS 60950.1: 2003	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
General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Ut 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22-2 No. 60950-00	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, ill mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, 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 Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement,	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 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004	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 Lectrical 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
General test methods: Power inputs' Permanence of marking*. Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI]*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*. Transformer shorts/overloads*, Rain test*, Wr Functionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993 EN 61010-1 1993, 2001	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousite 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 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 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.	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 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 2: Safety of optical 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
General test methods: Power inputs', Permanene of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Venuctionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1200 IEC 60950 12001 IUL 60950-1 2003 CSA C22.2 No. 60950-10 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993, 2001	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, il*, 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.	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 6035-1 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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: 2004 UL 60601-1: 2003	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 Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Expenses
General test methods: Power inputs' Permanence of marking*. Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition*, CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Locl Torque*, Insulation resistance*, Sound level: Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnormate supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm red rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th*, Capacitor short circuit athormal*, Output abnormal*, Multi- g 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, control and laboratory use, Part 1: General requirements.	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 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2004	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 Systems Medical Electrical Equipment - Part 1: General
General test methods: Power inputs', Permanene of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Venuctionality*, Protective impedance abnorms supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1200 IEC 60950 12001 IUL 60950-1 2003 CSA C22.2 No. 60950-10 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 1993, 2001	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor Short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment 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.	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 6035-1 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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: 2004 UL 60601-1: 2003	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 I: Collateral Standard: Safety Requirements For Safety Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Requirements For Medical Electrical Equipment - Part 1: General Requirements For Safety - Section 1-1. Collateral
General test methods: Power inputs' Permanence of marking*. Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition*, CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Locl Torque*, Insulation resistance*, Sound level: Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnormate supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm red rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th*, Capacitor short circuit athormal*, Output abnormal*, Multi- g 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, control and laboratory use, Part 1: General requirements.	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 6035-1 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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: 2004 UL 60601-1: 2003	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 Systems Medical Electrical Equipment - Part 1: General
General test methods: Power inputs' Permanence of marking*. Acce measurement*. SELV circuits*. TNV limits*. limitation*. Ring signal*, Humidity condition CTI)*. Limited power measurement*. Ground Applied force*. Steel sphere impact*. Moild st Component abnormal*. Electric strength*, Imflame*. Needle flame*, Hot flaming oil*. Loc Torque*. Insulation resistance*. Sound level*. Transformer shorts/overloads*. Rain test*. WF Functionality*. Protective impedance abnorma supply abnormal*. Cooling abnormal*. Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950.1 2003 CSA C22.2 No. 60950-00 CSA C22.2 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) IEC 60601-1 1995	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, esses*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11th, Capacitor Short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment 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. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety.	IEC 60825-1 2001 IEC 60825-2 1907-11 21 CFR 1040.10 IEC 6035-1 1997 & AM 12 – 1997) EN 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-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: 2004 UL 60601-1: 2003	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 — General Requirements For Safety I: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety = Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Equipment — Part 1: General Requirements For Safety = Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety
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General test methods: Power inputs' Permanence of marking*. Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition*, CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Locl Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, W. Functionality*, Protective impedance abnormate supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1909 EN 60950 2000 IEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-10 3 IEC 61010-1 1993, 2001 IEC 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2) UL 2601-1 1997	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acousite 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*, 11th, Capacitor Short circuit abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology 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. Part 1: General Requirements Medical electrical equipment. Part 1: General Requirements for safety.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 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 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: 2001 UL 60065: 2003 CSA 60065: 2003	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 Horizantion Technology Equipment — Safety — General requirements Medical Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment 1 - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements
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General test methods: Power inputs' Permanence of marking*. Acce measurement*. SELV circuits*. TNV limits*. limitation*. Ring signal*, Humidity condition CTI)*. Limited power measurement*. Ground Applied force*. Steel sphere impact*. Moild stomponent abnormal*. Electric strength*, Imflame*. Needle flame*, Hot flaming oil*. Loc Torque*. Insulation resistance*. Sound level*. Transformer shorts/overloads*. Rain test*. WF Functionality*. Protective impedance abnorma supply abnormal*. Cooling abnormal*. Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950.1 2003 CSA C2.2. 2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993. 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 11999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 6005 1998, 2000 IEC 6005 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, puble*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor Short circuit abnormal*, Multi- g 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, 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. Part 1: General requirements for safety. Audio, video and similar electronic apparatus – Safety requirements Audio/video and similar electronic apparatus – Safety requirements Audio/video and similar electronic apparatus or Household, commercial and similar general use Australian/New Zealand	IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CAN COSA 5-1 1995 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 AS/NZS 60950: 1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60605: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002	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 Safety information technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — 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: Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements
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General test methods: Power inputs' Permanence of marking*. Acce measurement*. SELV circuits*. TNV limits*. limitation*. Ring signal*, Humidity condition CTI)*. Limited power measurement*. Ground Applied force*. Steel sphere impact*. Moild stomponent abnormal*. Electric strength*, Imflame*. Needle flame*, Hot flaming oil*. Loc Torque*. Insulation resistance*. Sound level*. Transformer shorts/overloads*. Rain test*. WF Functionality*. Protective impedance abnorma supply abnormal*. Cooling abnormal*. Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950.1 2003 CSA C2.2. 2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993. 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 11999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 6005 1998, 2000 IEC 6005 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00	Limited current*, Capacitor Discharge / voltage g*. Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor short circuit abnormal*, Multi- g 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, 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 Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for household and similar	IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2002 EN 60065- 2002 EN 60065- 2002 EN 60065- 2002	Classification, requirements and user's guide. Safety of laser products — Part 4: 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 Safety 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 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 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 Requirements Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements
General test methods: Power inputs' Permanence of marking*. Acce measurement*. SELV circuits*. TNV limits*. limitation*. Ring signal*, Humidity condition CTI)*. Limited power measurement*. Ground Applied force*. Steel sphere impact*. Moild stomponent abnormal*. Electric strength*, Imflame*. Needle flame*, Hot flaming oil*. Loc Torque*. Insulation resistance*. Sound level*. Transformer shorts/overloads*. Rain test*. WF Functionality*. Protective impedance abnorma supply abnormal*. Cooling abnormal*. Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950.1 2003 CSA C2.2. 2 No. 60950-10 3 IEC 61010-1 1993 EN 61010-1 1993. 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 11999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 6005 1998, 2000 IEC 6005 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00	Limited current*, Capacitor Discharge / voltage g*. Creapage / Clearance / Distance that 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 ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor Short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment 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 Medical electrical	IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 CAN COSA 5-1 1995 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 AS/NZS 60950: 1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60605: 2003 CSA 60065: 2003 IEC 60065: 2001 EN 60065: 2002	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 Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Safety of Machinery – Electrical Equipment of Machines — Part 1: Specification of General Requirements Compliance Test Specification – Safety and Electrical
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Consumer and commercial products Safety requirements for main operated electronic and related apparatus for household and similar ageneral use	IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2002 EN 60065- 2002 EN 60065- 2002 EN 60065- 2002	Classification, requirements and user's guide. 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Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Competed to the Public Telecommunications Competed to the Public Telecommunications Competed to the Public Telecommunications
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General test methods: Power inputs' Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, WF Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950 1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 11999 (Including AM 2) IEC 60601-1 1995 IEC 60601-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, subs*, Overvoltage*, Acoustic sound pressure*, Leakage current*, subs*, Overvoltage*, Acoustic sound pressure*, Leakage current*, subs*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm sed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, Capacitor Short circuit abnormal*, Multi- g 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, 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. Part 1: General Requirements for safety: Audio, video and similar electronic apparatus — Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for household and similar general use Audio, video and similar electronic equipment. Consumer and commercial products Safety requirements for main operated electronic and related apparatus for household and similar ageneral use	IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2002 EN 60065- 2002 EN 60065- 2002 EN 60065- 2002	Classification, requirements and user's guide. Safety of laser products — Part 4: 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 — Part 1: General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment Part 1: General Requirements For Safety Medical Electrical Systems Medical Electrical Systems Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Compeliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications
General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorme supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1200 IEC 60050 1999 EN 60950 2000 IEC 60050 1999 EN 60950 2000 IEC 60050 1999 IEC 60060 1999 IEC 60060 1999 IEC 60060 1998 IEC 61010-1 1993 IEC 61010-1 1993 IEC 61010-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065 2000 Canadian C22.2 No. 1-94 (1-98) I994, 1998 IEC 60825 1990 IEC 60825-1 1994	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ced rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, 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 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 Medical electrical equipment Part 1: General requirements for safety. Audio, video and similar electronic apparatus For Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for household and similar general use Audio, video and similar electronic equipment. Consumer and commercial products Safety requirements for laser products, equipment Classification, requirements and user's guide Safety roll aser products Part 1: equipment	IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 AS/NZS 60950: 1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60065: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2001 EN 60065: 2002 EN 60204-1: 1998 HKTA 2001	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 requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety 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 1: 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. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Safety of Machinery — Electrical Equipment of Machines — Part 1: Specification — Safety and Electrical Compliance Test Specification — Safety and Electrical Connected to the Public Telecommunications Networks In Hong Kong
General test methods: Power inputs', Permanence of marking*, Acce measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Imflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, We Functionality*, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950 1099 EN 60950 2000 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1993 EN 61010-1 1995 EN 60601-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 IEC 60061-1 1995 UL 2601-1 1995 IEC 60061-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 60065-00 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60065 1994 IEC 60825 1990	Limited current*, Capacitor Discharge / voltage ng*, 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*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 11*, 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 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. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus — Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Audio, video and similar general use Radiation safety of laser products, equipment Classification, requirements and user's guide	IEC 60825-1 2001 IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 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 AS/NZS 60950: 2000 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60065: 2003 IEC 60065: 2003 IEC 60065: 2002 EN 60065- 2002 EN 60065- 2002 EN 60065- 2002	Classification, requirements and user's guide. Safety of laser products — Part 4: 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 — Part 1: General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Safety — General requirements Information Technology Equipment — Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment Part 1: General Requirements For Safety Medical Electrical Systems Medical Electrical Systems Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Audio, Video and Similar Electronic Apparatus — Safety Requirements Compeliance Test Specification — Safety and Electrical Protection Requirements for Subscriber Equipment Connected to the Public Telecommunications



REPORT: EG0903-1

FCC ID: O6RSMW-A IC: 3797A-SMWA

			Note 1. For standards or methods listed on the scope of accreditation without a	
Test Technology	Test Standard	Supporting Standards IP-0x thru IP-6x	expected to be competent in the use of the current version within one year of the	
Accessibility* Acoustic Noise*	IEC 60529	IP-0x thru IP-6x	standard test method or upon the date specified by the standard test method orig	inator when the originator ha
	GR-63-CORE Sec 4.6	AMOUNT IN	implementation authority. When a superseded standard or method is required fo	or an accredited test, the scope
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	will include the superseded date/version. For those that support the TCB/CB sta	
Altitude	GR-63-CORE Sec 4.1.3	IEC (00(0 2 1		
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 da	
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note	
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is require	d in a regulation or code (i.e.
_	GR-63-CORE Sec 4.3		the legal requirement) which is adopted by the lab under their responsibility.	
Dust	IEC 60529	IP-5x & IP-6x		
Firearms Resistance Testing	GR-487		* On-site test service is available for this technology, test, or method.	
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 let	IEC 60529 IEC 60529	IP-x5 & IP-x6		
water jet	IEC 00327	II "AJ & II "AU		
LA Cert. No. 1627.01) 3/27/06		Page 9 of 10	(A2LA Cert. No. 1627.01) 3/27/06	Page 10 of