

Test Report

Report No EG1106-1

Client Wavemark

Richard Desmarais

Address 80 Central ST, Suite 300

Boxborough, MA 01719

Phone 978-264-6601

Items tested HF 1000

Standards FCC Part 15 Section 15.225

FCC ID UQY-HF1000 FRN 0013630066

Test Dates October 16 through 18, 2006

Prepared by

Mairaj Hussain – Test Engineer

Authorized by

Michael Buchholz - EMC Manager

Issue Date

12/14/06

Conditions of Issue

This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 3 of this report.

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

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Form Final Report REV 10-18-06 (DW)

Summary

On October 16 through 18 of 2006 we tested the HF 1000 for compliance with the following requirements:

EMC Emissions:

FCC 47 CFR Part 15.225

Registration numbers for all open area test sites can be found in the *Test Equipment Used* Section starting on page 3.

We found that the product met the above requirements with modification (see *Modifications Required for Compliance* section on page 3).

This report is an application in pursuit of a FCC grant for the HF1000 with FCC ID: UQY-HF1000 operating under 47CFR 15.225. The product was tested using the methods outlined in ANSI C63.4 (2003). The radio module used in the HF1000 was previously tested under FCC ID: PJMMR101-PR101. The manufacturer intends to use the following new antenna with the product.

RFID Antenna "I"

Detailed schematic of the antenna board is attached as an exhibit with this report.

Fundamental was measured with a loop antenna at a distance of 30m from the product. Harmonics and spurious emissions were measured at 3m distance from the product. The EUT antennas could not be maximized separately. The EUT was only tested in floor standing orientation on a rotating turn table. All readings are peak unless otherwise specified on the respective table.

Temperature and voltage variation tests were not performed on the radio sample because Wavemark has not made any changes to the original radio. Data presented in this report is from the radio's original testing.

Richard Desmarais from Wavemark was present during the testing. The test sample was received in good condition.

Release Control Record

Issue No. Reason for change

1 Original Release

Date Issued

December 1, 2006



Product Tested - Configuration Documentation

EUT Configuration

Work Order: G1106

Company: Wavemark Inc.

Company Address: 80 Central St. Suite 300

Boxborough, MA 01819

Contact: Rick Desmarais
Person Present: Rick Desmarais

MN SN

EUT: HF 1000 WM10019

EUT Description: RF ID Reader

EUT Max Frequency: 13.56MHz (intentional Tx and 2.8GHz PC)

Support Equipment: MN SN

2

1

None

EUT Cables:	Qty	Snieided?	Lengtn	Ferrites	
AC power	1	No	2 m	None	
Ethernet	1	No	2 m	None	
Unpopulated EUT Ports:	Qty	Reason			
ON PC					
USB	6	Not used in c	onfiguration	า	
Keyboard, Mouse	1 each	Not used in c	onfiguration	า	

Not used in configuration

Not used in configuration

Software / Operating Mode Description:

Tx constant ON scanning tags.

Audio

dB-25

Compliance Statement

FF 47 CFR						
PART 15	RESULT	REQUIREMENT	COMMENTS			
PARTIS						
15.15(b)	NA	The product contains no user accessible controls that increase transmission power above allowable levels.				
15.19	NA	The label is shown in the label exhibit.				
15.21	NA	Information to the user is shown in the instruction manual exhibit.				
15.27	NA	No special accessories are required for compliance.	Wavemark installs the product.			
15.31(e); 15.225(e)	PASS	The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20°C to +50°C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of rated supply voltage at a temperature of 20°C.	Data taken from original radio report with FCC ID: PJMMR101- PR101			
15.225(a)	PASS	The field strength of any emissions within the band 13.553 -13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.	Loop antenna was used for measurement			
15.225(b)	PASS	Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.	Loop antenna was used for measurement			
15.225 (c)	Within the bands 13.110-13.410 MHz and 13.710- 14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.					
15.225 (d)	PASS	The field strength of any emissions appearing				

FF 47 CFR PART 15	RESULT	REQUIREMENT	COMMENTS
		outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in Sec. 15.209.	
15.207	PASS	Conducted EMI on AC mains meets the limits specified in this section.	

Modifications Required for Compliance

Modifications were required to pass spurious radiated emissions test.

Serial cable: Full loop Stewart ferrite 28A3851-0A2 at controller end RS485 cable: Full loop Stewart ferrite 28A2029-0A2 at controller end

Ground signal cabling side BNC to chassis

Added Al foil over PC

Photos of these modifications appear in photo exhibit.



Test Results

Section 15.225(a)

Table 1

Fundam	ental									Curtis-Str	aus LLC
Date:	17-Oct-06			Company:	Wavema	ark, Inc			W	ork Order:	G1106
Engineer:	Mairaj Hussa	in		EUT Desc:	HF 1000)					
								Measuremer	nt Distance:	30m	
Notes:	RBW: 9KHz Det: Peak										
Antenna			Preamp	Antenna	Cable	Adjusted			F	CC 15.225 (a)
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)			Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
ront facing anto	enna 13.56	66.4	25.9	38.0	0.6	79.1			84.0	-4.9	Pass
Side facing 90deg	13.56	67.4	25.9	38.0	0.6	80.1			84.0	-3.9	Pass
Table	e Result:	Pass	by	-3.9	dB			Wo	orst Freq:	13.56	MHz
Test Site:	"T"	Pre-Amp:	Red	Cable:	EMIR-06	3	Analyzer: Blue		Antenna:	Sm Loop (h	igh)

Section 15.225(b)(c)

Table 2

Radiated	l Emissi	ons Tat	ole						Curtis-St	raus LLC
Date:	17-Oct-06			Company:	Wavem	ark, Inc		W	ork Order:	G1106
Engineer:	Mairaj Hussai	in		EUT Desc:	HF 1000)				
							М	easurement Distance:	30m	
Notes:	RBW: 1KHz Det: Peak							EUT Max Freq:	13.56MHz	
Antenna			Preamp	Antenna	Cable	Adjusted		FC	C Part 15.2	225
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)		Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
13.41 - 13.553N	1Hz band									
90deg	13.41	8.0	25.9	38.0	0.6	20.7		50.5	-29.8	Pass
90deg	13.553	28.0	25.9	38.0	0.6	40.7		50.5	-9.8	Pass
90deg	13.533	31.3	25.9	38.0	0.6	44.0		50.5	-6.5	Pass
Check 13.567 -	13.71MHz band	l								
90deg	13.567	26.0	25.9	38.0	0.6	38.7		50.5	-11.8	Pass
90deg	13.71	30.2	25.9	37.9	0.7	42.9		50.5	-7.6	Pass
Check 13.11 - 1	3.41MHz band									
90deg	13.11	6.0	25.9	38.0	0.6	18.7		40.5	-21.8	Pass
90deg	13.41	12.3	25.9	38.0	0.6	25.0		40.5	-15.5	Pass
Check 13.71 - 1	4.01MHz band									
90deg	13.71	2.0	25.9	37.9	0.7	14.7		40.5	-25.8	Pass
90deg	14.01	8.0	25.9	37.9	0.7	20.7		40.5	-19.8	Pass
Table	e Result:	Pass	by	-6.5	dB			Worst Freq:	13.533	MHz
Test Site:	"A"	Pre-Amp:	Red	Cable:	EMIR-0	3	Analyzer: Blue	Antenna:	Sm Loop (h	iah)



Section 15.225(d)

Table 3

Harmoni	cs										Curtis-Str	aus LLC
Date:	17-Oct-06			Company:	Wavema	ark, Inc				V	Vork Order:	G1106
Engineer:	Mairaj Hussa	in		EUT Desc:	HF 1000)						
								ı	Measuremer	nt Distance:	10m	
Notes:	RBW: 9KHz Det: Peak											
Antenna			Preamp	Antenna	Cable	Adjusted					15.209	
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)
90deg	27.12	18.4	25.8	36.6	1.0	30.2				39.1	-8.9	Pass
V	40.68	35.0	25.8	13.5	0.6	23.3				29.5	-6.2	Pass
V	54.24	42.0	25.8	7.4	0.7	24.3				29.5	-5.2	Pass
V	108.48	33.3	25.6	11.8	1.1	20.6				33.0	-12.4	Pass
V	122.01	34.2	25.5	14.2	1.3	24.2				33.0	-8.8	Pass
v	135.6	27.0	25.5	14.1	1.3	16.9				33.0	-16.1	Pass
Test Site:	"T"	Pre-Amp:	Red	Cable:	EMIR-0	6	Analyzer:	Blue		Antenna:	Sm Loop (h	igh)
					EMIR-04	4					Red-Blk	

Table 4

Radiated	Spurio	us Emis	sions	Table						Curtis-Str	aus LLC	
	17-Oct-06			Company:	Wavema	ark, Inc			W	ork Order:	G1106	
Engineer:	Mairaj Hussa	in		EUT Desc:	HF 1000)						
	Frequency Range: 30 - 1000MHz								nt Distance:	10 m		
Notes: Stewart ferrite (full loop) 28A3851-0A2 on serial cables at Mux board end.							end.	EU1	Γ Max Freq:	13.56MHz		
	Al foil on the back of PC. Ground signal cabling BNC with chassis using Cu tape.									2.8GHz (PC)	
	Stewart ferrite (full loop) 28A2029-0A2 on RS485.											
Antenna			Preamp	Antenna	Cable	Adjusted				FCC 15.209		
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)	
٧	40.0	34.8	25.8	14.1	0.5	23.6			29.5	-5.9	Pass	
٧	80.0	37.5	25.7	8.1	0.9	20.8			29.5	-8.7	Pass	
٧	95.01	37.1	25.7	8.5	1.0	20.9			33.0	-12.1	Pass	
V	115.03	35.4	25.5	13.1	1.2	24.2			33.0	-8.8	Pass	
V	119.99	37.4	25.5	14.0	1.2	27.1			33.0	-5.9	Pass	
V	160.0	34.4	25.4	12.3	1.5	22.8			33.0	-10.2	Pass	
h	244.0	32.0	25.0	11.5	2.1	20.6			35.5	-14.9	Pass	
V	263.7	31.1	25.3	12.5	2.2	20.5			35.5	-15.0	Pass	
٧	268.4	31.7	25.4	13.2	2.2	21.7			35.5	-13.8	Pass	
h	311.8	29.6	25.6	13.6	2.4	20.0			35.5	-15.5	Pass	
V	325.4	32.2	25.6	14.0	2.5	23.1			35.5	-12.4	Pass	
Table	Result:	Pass	by	-5.9	dB			Wo	orst Freq:	40.0	MHz	
Test Site:	"T"	Pre-Amp:	Red	Cable:	EMIR-04	1	Analyzer: Blue		Antenna:	Red-Black		

Note: No spurious emissions found below 30MHz.

Table 5

Radiated	l Emissi	ons Tab	ole						Curtis-Straus LLC				
Date:	18-Oct-06			Company:	Wavema	ark		Work Order: G11					
Engineer:	Mairaj Hussa	in		EUT Desc:	HF 1000)							
	Frequency Range: 1 - 15GHz Measurement Distance: 3 m												
Notes:	EUT Max Freq: 13.56MHz												
											2.8GHz (PC	()	
Antenna			Preamp	Antenna	Cable	Adjusted	FCC 15.209						
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)	
h	2349.7	41.0	39.3	30.0	2.3	34.0				54.0	-20.0	Pass	
h	2495.5	40.0	39.2	30.3	2.3	33.4				54.0	-20.6	Pass	
V	3000.0	45.1	38.8	31.8	2.6	40.7				54.0	-13.3	Pass	
h	10535.0	33.9	38.7	41.3	5.1	41.6				54.0	-12.4	Pass	
Table	e Result:	Pass	by	-12.4	dB				Wo	rst Freq:	10535.0	MHz	
Test Site:	"T"	Pre-Amp:	Brown	Cable:	EMIR-H	IGH 5	H 5 Analyzer: Brown Antenna: Black Horn						

Sample calculation:

Adjusted reading = reading + antenna factor -PA factor + cable factor

Section 15.207

Table 6

I able 0												
AC Main	s Cond	ucted E	missio	ons						C	urtis-Stra	us LLC
Date:	18-Oct-06		0	company:	Wavemark, Ind	C.					Work Order:	G1106
Engineer:	Mairaj Hussa	ain	E	UT Desc:	HF 1000						Test Site:	EMI1
Notes:												
Measurement	Device: Ye	llow-Black L	ISN									
Range:	0.15-30MHz								Spectr	um Analyzer:	Yellow	
					Impedance	_		FCC/	CISPR B	FCC/	CISPR B	
	Q.P. Readings		Ave. Re	eadings	Factor							Overall
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)
0.210	17.6	19.7	17.6	19.3	20.9			63.2	-22.6	53.2	-13.0	Pass
0.278	8.4	12.2	6.7	10.5	20.6			60.9	-28.1	50.9	-19.8	Pass
0.488	9.4	15.2	8.1	14.5	20.5			56.2	-20.5	46.2	-11.2	Pass
0.835	9.2	16.1	7.6	15.8	20.5			56.0	-19.4	46.0	-9.7	Pass
2.643	10.7	14.3	9.1	13.6	20.4			56.0	-21.3	46.0	-12.0	Pass
5.770	11.6	12.3	9.7	12.5	20.3			60.0	-27.4	50.0	-17.2	Pass
7.715	16.8	8.0	14.8	6.3	20.3			60.0	-22.9	50.0	-14.9	Pass
27.123	21.2	19.8	19.5	19.2	20.5			60.0	-18.3	50.0	-10.0	Pass
Check fundam	ental frequer	ncy with BNC	going to a	ntennas d	isconnected							
13.56	28.5	27.8	28.6	28.6	20.5			60.0	-11.0	50.0	-0.9	Pass
Table	Result:	Pass	by	-0.90	dB				Wo	orst Freq:	13.560	MHz

Above reading at 13.56MHz was taken with antennas disconnected from the controller end. Antenna cable was attached to the Tx board but was disconnected at the antenna end. This was found to be the worst case for AC conducted emissions.



Test Equipment Used

							REV	. 19-OCT	T-2006	
SPECTRUM ANAL RECEIVER		RANGE	MN	MFR	SN	P	ASSET	Ca ⁻	Γ	CALIBRATION DUE
RED		9kHz-1.8GHz	8591	E HP	3441A03	3559 C	00024	П		30-DEC-2006
WHITE		9kHz-22GHz	8593E		3547U01		00022	- 1		06-OCT-2007
BLUE		9kHz-1.8GHz	8591E		3223A00		0070	i		14-DEC-2006
YELLOW		9kHz-2.9GHz	8594E		3523A01		0100	i		05-JUN-2007
GREEN		9kHz-26.5GHz	8593E		3829A03		0143	i		05-SEP-2007
BLACK		9kHz-12.8GHz	8596E		3710A00		00337	i		02-NOV-2006
TELECOM 35	85Δ	20Hz-40.0MHz	3585		2504A05		00030	i		07-FEB-2007
TELECOM 35		20Hz-40.0MHz	3585		1750A03		0558	1		23-MAY-2007
TELECOM 35		20Hz-40.0MHz	3585		1750A02		1067	i		01-MAR-2007
ORANGE	00/1	9kHz-26.5GHz	E4407		US39440		0394	i		01-SEP-2007
BROWN (REN	ΤΛΙ \	9kHz-26.5GHz	E4407		SG44210		Rental	1		05-JAN-2007
EMI TEST REC		20-1000MHz	ESVS3		827957/		1098	i		27-OCT-2006
LIVII TEST NEC	LIVER	20-1000WH12	LOVO	oo ras	0219311	001 0	71030			27-001-2000
LISNS/MEASUREM PROBES	MENT	RANGE	M	IN	MFR	SN	,	ASSET	Ca ⁻	T CALIBRATION DUE
RED	1	I0кHz-30MHz	8012-50-F	R-24-BNC	SOLAR	956348	} (00753	- II	05-MAY-2007
BLUE (DC)	1	Ι0κHz-30MHz	8012-50-F	R-24-BNC	SOLAR	956349) (00752	ll.	05-MAY-2007
YELLOW-BLAC	к 1	I0kHz-30MHz	8012-50-F	R-24-BNC	SOLAR	984735	5 (00248	Ш	05-MAY-2007
ORANGE	1	I0kHz-30MHz	8012-50-F	R-24-BNC	SOLAR	903707	, (00754	Ш	05-MAY-2007
GOLD (DC)	1	I0kHz-30MHz		R-24-BNC	SOLAR	984734		00247	П	05-MAY-2007
Brown		10kHz-30MHz		R-24-BNC	SOLAR	041165		00986	İİ	05-MAY-2007
GREEN		10kHz-30MHz		R-24-BNC	SOLAR	041165		00987	ii	08-MAY-2007
YELLOW		I0kHz-30MHz		R-24-BNC	SOLAR	041165		1080	ii	05-MAY-2007
WHITE-BLACK		10kHz-30MHz		TS-100-N	SOLAR	972019		00678	ii	05-MAY-2007
BLACK		10kHz-30MHz		TS-100-N	SOLAR	972017		00675	ii	05-MAY-2007
RED-BLACK		10kHz-30MHz		TS-100-N	SOLAR	972016		00677	ii.	05-MAY-2007
BLUE-BLACK		10kHz-30MHz		TS-100-N	SOLAR	972018		00676	ii.	05-MAY-2007
BLUE MONITORING F		0.01-150MHz		50-2	TEGAM	12350		00807	ı,	26-MAY-2007
YELLOW MONITORING		0.01-150MHz		50-2 50-2	ETS	50972		00493	i	23-JAN-2008
GREEN CURRENT TRANS		40Hz-20MHz		50-2 50	PEARSON	10226		00793	i	07-APR-2007
						N/A			i	
BLUE CISPR LINE P		50kHz-30MHz		/A	C-S C-S	N/A N/A		00805	ıı II	08-JUN-2007
BLACK CISPR LINE F		50kHz-30MHz		/A				NONE		08-JUN-2007
CISPR TELCO VOLTAG		10kHz-30MHz		/C-10	C-S	CS01		00296	II	30-SEP-2006
CISPR 22 TELCO	ISIN	9kHz-30MHz	FCC-11	ISN-T4	FISCHER	20115		00746	ı	26-OCT-2006
OPEN AREA TES	ST SITES (OA	TS)	FCC Co	DE	IC CODE	VCCI	CODE	Сат		CALIBRATION DUE
	TE F		93448		IC 2762A-1	R-10	688	П		04-APR-2007
	TE T		93448		IC 2762A-2	R-9		ii		14-AUG-2007
	те А		93448		IC 2762-A	R-9		ii		13-AUG-2007
	ге М		93448		IC 2762-M	R-9		ii.		19-MAR-2007
	TE J		93448		IC 2762A-3	R-2		ii		11-APR-2008
	120		00110		10 21 027 0		<u> </u>			1174112000
CONDUCTED TEST S	TITES (MAINS	/TELCO)	FCC Co	DE	IC CODE	VCC	I CODE		Сат	CALIBRATION DUE
	EMI 1		93448		N/A		1, T-26		Ш	NA
EM	MI 2		93448		N/A	C-180	2, T-26	9	Ш	NA
EN	VI 3		93448		N/A	C-180	3, T-27	0	III	NA
Movemo/Dinieries	D	8.651		NA		DNI .	Α -		0:-	CALIBRATION DO
MIXERS/DIPLEXERS	RANGE	MN	110.0	MFR		SN		SET	CAT	CALIBRATION DUE
MIXER / HORN	26.5-40 GHz			HP/ATM		5/A046903-0		087	!	23-AUG-2007
Mixer / Horn	26.5-40 GHz	11970A/28	-442-6	HP/ATM	3003A0782	5/A046903-0	1 10	086	!	19-SEP-2007

MIXERS/DIPLEXERS	RANGE	MN	MFR	SN	ASSET	Сат	CALIBRATION DUE
Mixer / Horn	26.5-40 GHz	11970A/28-442-6	HP/ATM	2332A01695/A046903-01	1087	I	23-AUG-2007
Mixer / Horn	26.5-40 GHz	11970A/28-442-6	HP/ATM	3003A07825/A046903-01	1086	I	19-SEP-2007
Mixer / Horn	40-60 GHz	M19HW/A	OML	U30110-1	00821	I	02-MAR-2007
MIXER	33-50 GHz	11970Q	HP	3003A03155	00104	1	08-NOV-2007
Mixer / Horn	50-75 GHz	11970V /QWH-VPRROO	HP/QuinStar	2521A01197/8794001	1179	I	15-NOV-2007
MIXER	75-110 GHz	11970W	HP	2521A01334	00105	1	22-NOV-2007
Mixer / Horn	60-90 GHz	M12HW/A	OML	E30110-1	00822	1	03-MAR-2007
Mixer / Horn	90-140 GHz	MO8HW/A	OML	F21206-1	00811	1	03-MAR-2007
Mixer / Horn	140-220 GHz	MO5HW/A	OML	G21206-1	00812	II	
DIPLEXER	40-220 GHz	DPL.26	OML	N/A	00813	I	03-MAR-2007

Absorbing Clamps	RANGE	MN		MFR	SN	Assı	≣т С	AT	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23	Вмм Б	ISCHER	10	3000	31	I	20-JAN-2008
HARMONIC & FLICKER AI		MN	MFR		SN			Сат	CALIBRATION DUE
HFTS		26842A	HP		-00169		0738	II	30-DEC-2007
10001I/2 AC POWER SY	SIEM (2	2) 5001 CALIF	ORNIA INSTRUMENT	rs HK53687	7HK5368	8 00	0376	II	09-JAN-2008
PREAMPS / ATTENUATORS	e /								
FILTERS	RANGE	Ē	MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
RED	0.10-20001	MHz ZF	L-1000-LN	C-S	١	N/A	00798	II	28-JUL-2007
BLUE	0.01-2000	MHz ZF	L-1000-LN	C-S	١	N/A	00759	II	20-JUL-2007
Blue-Black	0.01-2000		L-1000-LN	C-S		N/A	00800	II	04-JAN-2007
GREEN	0.01-20001		L-1000-LN	C-S		\/A	00802	II	07-AUG-2007
BLACK	0.01-2000		L-1000-LN	C-S		N/A	00799	II	20-JUL-2007
Orange White	0.01-2000I 1-20GH		L-1000-LN SMC-12A	C-S C-S		N/A 6643	00765 00760	II II	28-DEC-2006 22-JUL-2007
BROWN	1-20GH		18-4R5-17-15-SFF			1655	1132	ii	14-APR-2007
YELLOW-BLACK	1-20GH		SMC-12A	C-S		5055	00801	ii	22-JUL-2007
RED-GREEN	1-20GH		18-4R5-17-15-SFF					ii	14-AUG-2007
HF (YELLOW)	18-26.5G	Hz AFS4-18	3002650-60-8P-4	C-S	46	7559	00758	П	23-AUG-2007
HIGH PASS FILTER	1-18 GH	lz SP	A-F-55204	K&L	;	36	00817	II	05-JAN-2008
Low Pass Filter	1-9 GH		4100/X4400-O/O	K&L		4	00816	II	05-JAN-2008
HF 20DB 50W ATTENUATOR			E 7019-20	PASTERNACE		01	00791	II	10-MAY-2007
HF 30DB 50W ATTENUATOR			E 7019-30	PASTERNACK MICROWAVE		02	1168	II	10-MAY-2007
Low Freq LPF	10-100kl		200K1G1	CIRCUITS MICROWAVE		1 DC0432	1019	II	OUT OF SERVICE
Low Freq LPF	10-100kl	Hz L.	200K1G1	CIRCUITS	4777-0	1 DC0434	1088	ll l	OUT OF SERVICE
•									
ANTENNAS	RANGE	MN	MFR	SN	ASSET	Сат			ATION DUE
GREEN BILOG GREEN-BLACK BILOG	30-2000MHz 30-2000MHz	CBL6112B CBL6112B	CHASE CHASE	2742 2412	00620 00127	II II			AN-2008
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	ı,			AN-2008 PR-2008
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	ii			AY-2007
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	ii	06-MAY-2)/30-JUN-2007(RFI2)
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	ii			I) / 01-MAY-2007(RFI)
RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	1		11-AI	PR-2008
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	I			PR-2008
RED-BROWN BILOG	30-2000MHz	JB1	SUNOL	A0032406	1218	!			JG-2008
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	!	27-MAY-2)/ 18-MAY-2007 (RFI)
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056	!			JN-2007
ORANGE HORN HF (WHITE) HORN	1-18GHz 18-26.5GHz	3115 801-WLM	EMCO Waveline	0004-6123 00758	00390 00758	- !			JN-2007 JG-2007
SMALL LOOP	10×Hz-30MHz	PLA-130/A	ARA	1024	00755	i			EB-2008
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067	i			AN-2008
ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMCO	3824	00068	İ			PR-2007
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778	II			EP-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1370	00757	- 1		18-M	AR-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	I			AR-2007
RE101 LOOP SENSOR	30Hz-100kHz	RE101-13.3cm	C-S	N/A	00818	II.			AR-2007
RS101 RADIATING LOOP	30Hz-100kHz	RS101-12CM	C-S	N/A	00819	II 			AR-2007
RS101 LOOP SENSOR	30Hz-100ĸHz	RS101-4cm	C-S	N/A	00820	<u>II</u>		13-M	AR-2007
EFT		MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
EFT DIRECT COUPLING (^AD	N/A	C-S		01		00794	II	06-FEB-2008
El I Dillet Gool Ling (JAI	14/74	0-0				00754		00-1 LD-2000
ESD GENERATORS		MN	MFR	SN	.	ASSET	Сат	(CALIBRATION DUE
GREEN	N:	SG435	SCHAFFNER			00763			OUT OF SERVICE
RED		SG435	SCHAFFNER			00762	i		06-JAN-2007
YELLOW		930D	ETS	201		00673			18-AUG-2007
BEST EMC-2 MI							CALIBRATI		
BLUE 711-1						. ,		•)/31-JUL-2007 (EFT)
RED 711-1	1100 SCHAF	FNER 200122-	074SC 00623	B II	31-M	AK-2007	(SURGE / D+	·ı) / U/-AF	PR-2007 (EFT)

CHAMBERS AND	STRIPLINE	MN		MFR		SN	ASSET	Ca	Г	CALIBRATION DUE
RFI 1 CHA		3 METER COI	MPACT	PANASHIELD)	N/A	00797	II		01-MAY-2007
RFI 2 CHA		04' x 07' SHIELDIN		LINDGREN		13329	00795	II		30-JUN-2007
RFI 3 STRI	IPLINE	N/A		C-S		N/A	00796	III		NA
ENVIRONMENT	AL (SAFETY)	ECL5		B-M-A Inc.		2041	00029	ı		11-JAN-2007
ENVIRONMENT	. ,	SGTH-3	1S	B-M-A Inc.		2245	00321	- 1		11-JAN-2007
AMPLIFIERS RED	RANGE	MN : 10W1000B	MFR AR	SN 18708	ASSET 00032				CALIBRAT	
GREEN	0.5-1000MHz 0.5-1000MHz		AR	23423	00032				26-APR-20 13-APR-20	, ,
BLUE	0.01-250MHz		AR	19165	00123		05_APE	2_2007 (F		2-DEC-2006 (NEBS CRFI)
BLACK	0.01-250MHz		AR	23411	00039				,	2-DEC-2006 (NEBS CRFI)
										2-DEC-2006 (NEBS CRFI)/
ORANGE	0.01-250MHz	75A250	AR	26827	00367	II	007		01-MAY-20	
BROWN 150W	0.1-250MHz	150A250	AR	313454	RENTAL	. II			30-JUN-20	07 (RFI2)
GTC 1-2.6	1.0-2.6 GHz	GRF5016A	GTC	1221	RENTAL	. II			18-MA\	7-2007
HUGHES 10W	2.0-4.0GHz	1177H01	Hughes	055	RENTAL				18-MA\	7-2007
HUGHES 10W	4.0-8.0GHz	8010H02F	HUGHES	240	RENTAL				18-MA\	7-2007
HUGHES 10W	8-10.0GHz	80108	Hughes	138	RENTAL				18-MA\	7-2007
HP495A	7.0-10.0GHz	HP495A	HP	304-00237	00086			Ou	T OF SERV	ICE (SPARE)
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	700438	NONE	Ш			N/	
AUDIO AMP	AUDIO FREQ	MPA-200	RADIO SHACK	708545	00862	III			N/	4
FIELD PROBES	Range	: M	N	MFR		SN	As	SET	Сат	CALIBRATION DUE
RED	0.01-1000	инz HI-4	422	HOLADAY		90369	00	031	ı	01-MAR-2007
GREEN	0.01-1000	инz HI-4	422	HOLADAY		97363	00	136	1	25-JUL-2007
BLUE	0.01-1000	MHz HI-4	422	HOLADAY		95696	01	100	I	25-MAR-2007
SIGNAL GENE	RATORS	RANGE	MN	MFR		SN	2400	ASSET	Сат	CALIBRATION DUE
RED		0.09-2000MHz	HP8648B	HP		3847U02		00366		28-FEB-2007
BLUE		0.1-1000MHz	HP8648A	HP		3426A00		00034	!	23-AUG-2007
GREEN		0.09-2000MHz	HP8648B	HP HP		3623A02		00125	ļ	OUT FOR CAL
ORANG BROWN		0.1-1000MHz 0.01Hz-15MHz	HP8648B HP33120A	HP		3537A0° US3601		00025 1211	!	29-JUN-2007 23-NOV-2006
WHITE (N		0.01Hz-15MHz	HP33120A	HP		US3604		1211	1	10-MAY-2007
BLUE-WH	,	0.1Hz-13MHz	HP33120A	HP		1432A07		00775	i	11-MAR-2007
SWEEPE		0.01-20.0GHz	HP83752A	HP		3610A0		00087	ii	02-MAY-2007
AM/FM STEREO		0.1-170MHz	LG3236	LEADER	,	36873		00959	ï	10-OCT-2008
IMPULSE GENE		1-100Hz	CIG-25	ELECTRO-ME		290		00939	i	05-AUG-2007
IIVIF OLGE GENE	LNATOR	1-100112	010-23	LLECTRO-IVIE	INICO	230		00342	<u> </u>	03-A00-2001
BULK INJECTI	ION CLAMPS	RANGE	MN	MFR	SN	Asse	г Сат		CAL	IBRATION DUE
GRE	EN	0.01-100MHz	95236-1	ETS	50215	00118	3 II	05-A	PR-2007 (E	EU) /16-DEC-2006 (NEBS)
Rei	D	0.01-100MHz	95236-1	ETS	34026	1020		05-A	NPR-2007 (E	EU) /16-DEC-2006 (NEBS)
RENT	TAL	2 – 450MHz	9142-1N	SOLAR	008508	RENTA	L II		10	D-AUG-2007
00444		D=		NAN I	N /	1	^		0	0
CDN NETV		RANGE		MN		lfR	ASSET		CAT	CALIBRATION DUE
BLUE		0.10-100MHz		5A M-3		-S	00806		II	10-JAN-2007
RED		0.10-100MHz		5A M-3		;-S	00780		II	10-JAN-2007
YELLOW-B		0.10-100MHz		5A M-3		;-S	00784		II	10-JAN-2007
GREE		0.10-100MHz		0A M-3		S-S	00779		II II	04-AUG-2007
YELLO		0.10-100MHz		60A M-5	C	S-S	00804		II	05-APR-2007
BROW MAN M		0.10-100MHz		M-3		;-S	1169		II II	10-JAN-2007
BROWN-W		0.10-100MHz		M-3		:-S :-S	1170			10-JAN-2007
BROWN-B		0.10-100MHz		1-2 (DC)		;-S ;-S	1171 1177		II II	10-JAN-2007
RED-BLA GREEN-W		0.10-100MHz 0.15-80MHz		1-2 (DC) 1-2 (DC)		,-S ;-S	11//		II	11-MAY-2007 01-AUG-2007
YELLOW (0.10-100MHz		I-Z (DC) SISTOR NWK (M-1)		,-S :-S	00810		II	19-OCT-2007
GREEN (F	` '	0.10-100MHz		SISTOR NWK (M-1)		,-S ;-S	1172		II	30-JAN-2007
Sixeli (i	/	55 100mm12								55 5. 31 2007
	T1.315	MN	MFR SN	I As	SET	Ca ⁻				ATION DUE
	ISE CART		C-S			III				NOT REQUIRED
SBC TRAN	SIENT CART		C-S			III		WAVE	SHAPE VE	RIFIED BEFORE USE

OSCILLOSCOPES	MN		MFR		SN	ASSET	Сат	CALIBRATION DUE
EMC 100MHz	TDS 22	20	TEKTRONIX		036986	1166	1	28-AUG-2007
ESD REFERENCE 1GHZ	TDS 684		TEKTRONIX		011287	RENTAL	1	31-MAR-2007
PRODUCT SAFETY 100 MHz	TDS 00.		TEKTRONIX		012357	00737	i	03-OCT-2007
TELECOM 100 MHZ	54645		HP/AGILENT		36320452	00/3/		30-JUN-2007
TELECOM 100 MHZ	34043/	A 1	HF/AGILENT	03.	30320432	00103	ı	30-30IN-200 <i>1</i>
RMS VOLTMETERS/CURRENT CL	AMP	MN	Mnfr		SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS MULTIMETER		79111	FLUKE	71	1700298	00769	ı	25-OCT-2006
TRUE-RMS MULTIMETER (REFEREN	ICE)	177	FLUKE	83	3390024	00973	1	21-MAR-2007
TRUE-RMS MULTIMETER	,	177	FLUKE	83	3390025	00974	1	10-MAR-2007
TRUE-RMS MULTIMETER (TELECOM	и)	177	FLUKE	83	3430419	00975	I	21-MAR-2007
Super Crurpatone		Λ.	1N	Med	SN	Acost	CAT	CALIDDATION DUE
SURGE GENERATORS				MFR		ASSET	Сат	CALIBRATION DUE
TRANSIENT WAVEFORM MONIT			/M-5	CDI	003982	00323	II	05-JUN-2007
UNIVERSAL SURGE GENERAT			15 2N	CDI	003966	00324	II	OUT OF CAL
THREE PHASE COUPLING NV			CN S Bullow	CDI CDI	003455	00325	II II	OUT OF CAL
1.2x50uS PLUGIN MODULE			S PLUGIN	CDI C-S	N/A	00842	II II	OUT OF CAL
10x160uS PLUGIN MODULE			S PLUGIN	C-S C-S	N/A	00843	II II	08-JUN-2007
10x560uS PLUGIN MODULE			S PLUGIN		N/A	00841		08-JUN-2007
PSURGE CONTROLLER MODU			GE 8000	HAEFELY	150267	00879	II	06-JUN-2007
COUPLING/DECOUPLING MODI	ULE		900	HAEFELY	149213	08800	II 	06-JUN-2007
IMPULSE MODULE			1900	HAEFELY	149202	00881	II 	06-JUN-2007
HIGH VOLTAGE CAP NWK 5KVDC			HVCC	C-S	01	00772	II 	14-JUN-2008
NEBS SURGE GENERATOR			/A	C-S	N/A	88000	II.	05-OCT-2007
2x10uS Surge Generato			0uS	C-S	N/A	00846	II.	06-JUN-2007
10x700uS Surge Generate			700uS	C-S	N/A	00847	II.	08-JUN-2007
12 PAIR SURGE RESISTOR MOD	DULE	N	/A	C-S	N/A	00768	II	04-OCT-2007
Power/Noise Meters		MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
Power Meter		435B	HP	24	445A11012	00773	ı	12-APR-2007
Power Meter		437B	HP		912A01367	01099	i	12-APR-2007
Power Sensor		8481A	HP		702A61351	00774	i	12-APR-2007
PSOPHOMETER		2429	BRUEL & KJ		1237642	00585	İ	14-FEB-2007
TRANSMISSION LINE TESTER (DBRN	NC)	185T	AMREL		998658	00823	ii	16-MAR-2007
OVERVOLTAGE CHAMBERS	MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
72kW Power Fault SIMULATOR	OV1	C-S		N/A		00792	Ш	31-MAR-2007
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	II	31-MAR-2007
								CALIDDATION DUE
DIPOLE TAPE MEASURES	MN		MFR		SN	ASSET	Cat	CALIBRATION DUE
DIPOLE TAPE MEASURES		MF				ASSET 00776	CAT	
DIPOLE TAPE MEASURES 26FT TAPE #1 26FT TAPE #2	MN 2338CI 2338CI		Mfr Lufkin Lufkin		SN C3166-1 C3166-2	ASSET 00776 00777	CAT I I	CALIBRATION DUE 13-MAR-2007 13-MAR-2007
26FT TAPE #1 26FT TAPE #2	2338CI	ME	Lufkin Lufkin		C3166-1 C3166-2	00776 00777	l I	13-MAR-2007 13-MAR-2007
26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS	2338CI 2338CI	ME	Lufkin Lufkin	MFR	C3166-1 C3166-2	00776 00777 ASSET	I I CAT	13-MAR-2007 13-MAR-2007 CALIBRATION DUE
26FT TAPE #1 26FT TAPE #2	2338CI 2338CI	ME	Lufkin Lufkin		C3166-1 C3166-2 SN N/A	00776 00777 ASSET 00965	l I	13-MAR-2007 13-MAR-2007
26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS	2338CI 2338CI AUGE 74	ME	LUFKIN LUFKIN DN II [MFR Davis Juger	C3166-1 C3166-2 SN N/A 4000562	00776 00777 ASSET 00965 00789	I I CAT	13-MAR-2007 13-MAR-2007 CALIBRATION DUE 08-FEB-2007 01-FEB-2007
26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE G/	2338CI 2338CI AUGE 74	MN 00 PERCEPTIO	LUFKIN LUFKIN DN II [MFR Davis	C3166-1 C3166-2 SN N/A	00776 00777 ASSET 00965	I I CAT	13-MAR-2007 13-MAR-2007 CALIBRATION DUE 08-FEB-2007
26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE G/ TEMPERATURE /HUMIDITY GAUGI WEATHER CLOCK (PRESSURE ONL	2338CI 2338CI AUGE 74 E LY)	MN 00 PERCEPTIC THG-912 BA928	LUFKIN LUFKIN ON II [H OREGO	MFR DAVIS HUGER N SCIENTIFIC	C3166-1 C3166-2 SN N/A 4000562 C3166-1	00776 00777 ASSET 00965 00789 00831	CAT	13-MAR-2007 13-MAR-2007 CALIBRATION DUE 08-FEB-2007 01-FEB-2007 02-FEB-2007
26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE G/ TEMPERATURE /HUMIDITY GAUGI WEATHER CLOCK (PRESSURE ONL	2338CI 2338CI AUGE 74 E Y)	MN 00 PERCEPTIC THG-912 BA928	LUFKIN LUFKIN DN II [OREGO MFR	MFR DAVIS IUGER N SCIENTIFIC	C3166-1 C3166-2 SN N/A 4000562 C3166-1	00776 00777 ASSET 00965 00789 00831	CAT II I CAT	13-MAR-2007 13-MAR-2007 CALIBRATION DUE 08-FEB-2007 01-FEB-2007 02-FEB-2007
26FT TAPE #1 26FT TAPE #2 METEOROLOGICAL METERS TEMP./HUMIDITY/ATM. PRESSURE G/ TEMPERATURE /HUMIDITY GAUGI WEATHER CLOCK (PRESSURE ONL	2338CI 2338CI AUGE 74 E LY)	MN 00 PERCEPTIC THG-912 BA928 CC.	LUFKIN LUFKIN ON II [H OREGO	MFR DAVIS HUGER IN SCIENTIFIC	C3166-1 C3166-2 SN N/A 4000562 C3166-1	00776 00777 ASSET 00965 00789 00831	CAT	13-MAR-2007 13-MAR-2007 CALIBRATION DUE 08-FEB-2007 01-FEB-2007 02-FEB-2007

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



Jurisdictional Labeling and Required Instruction Manual Inserts

CE Marking - European Union (EU)

The CE mark is affixed by a manufacturer to its product in order to demonstrate to customs and other officials that the product marked is in conformity with all applicable European Union (EU) Directives. The CE mark must take the form shown below and must be affixed to the product unless the product is too small. If the product is too small, the CE mark may be affixed to the packaging, instructions for use or the guarantee certificate. The CE mark must be a minimum 5mm in height.

It is customary to include the written Declaration of Conformity with the shipment of the product as well in case of questions at the border. Supplying the Declaration of Conformity with the product is not required, it's just good preventative practice. It is required that the directive be held available to EU officials for a period of ten years following the placement of the product on the market.



The CE marking is available in bit-mapped form from the Curtis-Straus web site at http://www.curtis-straus.com or call us for a complementary disk.

Sample Declaration of Conformity

Declaration of conformity
Konformitätserklärung
Déclaration de conformité
Declaración de Confomidad
Verklaring de overeenstemming
Dichiarazione di conformità

We/Wir/ Nous/WIJ/Noi: COMPANY NAME
ADDRESS

declare under our sole responsibility that the product, erklären, in alleniniger Verantwortung,daß dieses Produkt, déclarons sous notre seule responsabilité que le produit, declaramos, bajo nuestra sola responsabilidad, que el producto, verklaren onder onze verantwoordelijkheid, dat het product, dichiariamo sotto nostra unica responsabilità, che il prodotto,

MODEL NUMBER

SERIAL NUMBER RANGE

to which this declaration relates is in conformity with the following standard(s) or other normative documents. auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder Richtlinie(n) übereinstimmt. auquel se réfère cette déclaration est conforme à la (aux) norme(s) ou au(x) document(s) normatif(s). al que se refiere esta declaración es conforme a la(s) norma(s) u otro(s) documento(s) normativo(s). waarnaar deze verklaring verwijst, aan de volende norm(en) of richtlijn(en) beantwoordt. a cui si riferisce questa dichiarazione è conforme alla/e seguente/i norma/o documento/i normativo/i.

LIST OF DIRECTIVES AND EN'S TO WHICH CONFORMANCE IS CLAIMED (Including Title and edition date).

SIGNATURE OF RESPONSIBLE PARTY, DATE, and PLACE OF ISSUE

FCC Requirements

Required Equipment Authorization for Device Type

Type of Device	Equipment Authorization Required
TV broadcast receiver	Verification
FM broadcast receiver	Verification
CB receiver	Declaration of Conformity or Certification
Superregenerative receiver	Declaration of Conformity or Certification
Scanning receiver	Certification
All other receivers subject to part 15	Declaration of Conformity or Certification
TV interface device	Declaration of Conformity or Certification
Cable system terminal device	Declaration of Conformity
Stand-alone cable input selector switch	Verification
Class B personal computers and peripherals	Declaration of Conformity or Certification
CPU boards and internal power supplies used	
with Class B personal computers	Declaration of Conformity or Certification
Class B personal computers assembled using	
authorized CPU boards or power supplies	Declaration of Conformity
Class B external switching power supplies	Verification
Other Class B digital devices & peripherals	Verification
Class A digital devices, peripherals & external	
switching power supplies	Verification
All other devices	Verification

FCC Required labeling for Verified Devices 47 CFR Part 15.19

Verified devices must have the following label permanently affixed in a location accessible to the user:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

No distinction is made between Class A or Class B devices on the label.

When the device is so small or for such use that it is not practicable to place label on it, the information may be shall be placed in a prominent location in the instruction manual supplied to the user or, alternatively, shall be placed on the container in which the device is marketed.

Where a device is constructed in two or more sections connected by wires and marketed together, the label is only required to be affixed to the main control unit.

FCC Required labeling for Class B Personal Computers and Peripherals Devices 47 CFR Part 15.19 subject to Declaration of Conformity

Personal computers and peripherals subject to authorization under a Declaration of Conformity shall be labeled as follows:

- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in Section 2.1074 and the following logo:
- (i) If the product is authorized based on testing of the product or system:

Trade Name Model Number

Tested to Comply with FCC Standards

FOR HOME OR OFFICE USE

(ii) If the product is authorized based on assembly using separately authorized components and the resulting product is not separately tested:

Trade Name Model Number

Assembled From
Tested Components
(Complete System Not Tested)

FOR HOME OR OFFICE USE

- (2) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (3) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as described in Section 2.925(d). "Permanently affixed" means that the label is etched, engraved, stamped, silk-screened, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.

FCC Required Instruction Manual Inserts CFR 47 Part 15.21 and 15.105

The user's manual must caution the user that changes or modifications not expressly approved by the manufacturer could void the user's FCC granted authority to operate the equipment. In addition the following information should be inserted:

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: this equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial

environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- (c) The provisions of paragraphs (a) and (b) of this section do not apply to digital devices exempted from the technical standards under the provisions of § 15.103.
- (d) For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) of this section needs to be contained only in the instruction manual for the main control unit.

Our facility codes can be found in the *Test Equipment Used* Section starting on page 3.



Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

- 1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
- 2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
- 3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
- 4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
- 5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

 13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS



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

- 14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.
- 15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.
- (B)NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.
- 16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

Rev.160009121(2)_#684340 v13CS



A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

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

Valid until: 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

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 measurements*, Frequency Stability Measurements*, Longitudinal
Induction measurements*, Harmonic emissions testing*, Elight flicker testing*, Low frequency disturbance
voltage testing*; Disturbance Power measurements*, Power Cross Overvoltage testing*;

Test Type	Test Method(s)
Emissions	
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18; C63.4; CISPR 22; EN55022; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL NO. 2005-82; September 29; 2005); CISPR 11; EN 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; 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."

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

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

including emissions and/or immunity	GNT039-C ORL, 167-38-CORL (23.17) GNT039-C ORL, 167-38-CORL (23.17) EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 5001-2; EN 55003-2; EN 5100-6-3; EN 61000-6-4; EN 5001-2; EN 5602-2; EN 60601-2-24; EN 60601-2-24; EN 60601-2-24; EN 60601-2-24; EN 60601-2-24; EN 60601-2-38; EN 60601-2-47; ECI S000-3; EN 60601-2-38; EN 60601-2-47; ECI S000-3; EN 61800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60555 Part 2; EN 60555 Part 2; EN 60559 Part 3; ETS 300 386-1; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 6069-2-1; ASNXZS 3200.1.2; CNS 13783-1; ETR 283; C62-41; ASNXZS 3200.1.2; CNS 13783-1; ETR 283; C62-41; ASNXZS 3200.1.2; CNS 13783-1; ETR
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	TCB Status	
FCC Scop	pe A – Unlicensed Radio Frequency	Devices	
Al	1. 47 CFR Parts 11, 15 and	18	
	2. FCC MP-5,		
	ANSI C63.4-2003,		
A2	1. 47 CFR Part 15,		
	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 Equip	ment	
Bl	1. 47 CFR Parts 2, 22, 24, 2	5, and 27	
	2. ANSI/TIA-603-C (2004)		
B2	1. 47 CFR Parts 2, 22, 74, 9	0, 95, and 97	
	2. ANSI/TIA-603-C (2004)		
В3	1. 47 CFR Parts 2, 80, and 8	17	
	2. ANSI/TIA-603-C (2004)		
B4	1. 47 CFR Parts 2, 21, 74, a	nd 101	
	2. ANSI/TIA-603-C (2004)		

Country Specific Standards and Other	
ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR equivalents	SABS 1718-1; SANS 211/SABS CISPR 11; SANS 224/SABS CISPR 13; 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 225/SABS CISPR 15;
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
Iananasa VCCI Standards	VCCLV-3 VCCLV-4

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

m	Standards	T

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

Bulletin Part 68 Rationale and Measurement Guidelines Terminal Equipment CS-03 Issue 9 TIA/EIA TSB31-B 1998 (Feb 1998) TIA-968-A, A1, A2, A3 Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment T1.TRQ.6-2001

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

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

Part 1: General Part 2: Broadband Part 3: DC, Low Frequency AC and Voice band

International standards ITU-T G.703 Physical/electrical characteristics of hierarchical

Digital interfaces Hong Kong standards HKTA 2011

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

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

Recommendations

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Telecom Standards HKTA 2028	<u>Title</u>	European standards (cont'd)	
	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
	CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s		For pan-European approval for connection to the Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
HVT. 4 2020	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 Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	(DTMF) signaling Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using	IBR 24. 1997	Digital Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of		Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	
	Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits below 64 kbit/s	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment a POTS Splitter Technical Specifications
HKTA 2032	Network Connection Specification for Connection of	ID0002	DS1 Equipment Type Approval Guidelines
	Customer Premises Equipment (CPE) to the Public	IS6100	ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T		Connection to Public Switched Telephone Network
HKTA 2033	Recommendation G.992.1	New Zealand standards PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
HK1A 2055	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Fixed	1 1 C 200 (non-voice only)	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 FBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
IBK 1. 1993	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation	IDA 13 ADSE	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 of
FDD 2, 1007	signaling rate up to, and including, 1 984 kbit/s	1	hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139
ГВR 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	12/3 13 13DN 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
	from CCITT Recommendations X.21 and X.21 bit	1	Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	IDA TO DOTAL (non a circus)	Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal Equipment to Public Switched Telephone Network (PSTN
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	Equipment to Fubile Switched Telephone Network (1511)
	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipmer
	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		Network (PSTN)
	Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Attachment		
	requirements for terminal equipment		
TBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s		
	digital structured leased lines (D2048S); Attachment		
(A2LA Cert. No. 1627.01) 3/27/06	requirements for terminal equipment interface Page 5 of 10	(A2LA Cert. No. 1627.01) 3/27/06	Page 6 of 10
(AZEA CCIt. No. 1027.01) 5/2//00	1 age 3 01 10	(AZEA CCI. No. 1027.01) 3/2//00	rage o or ro
Product Safety General test methods: Power input: Permanence of marking* Access	ssihilitu* Permissihlu limits* Enerov bazard	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of ontical
General test methods: Power input*, Permanence of marking*, Acces measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, value*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,	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	
General test methods: "ower inputs," Permanence of marking*, Access neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni CTI}*, Limited power measurement*, Ground hyplied force*, Steel sphere impact*, Mold st component abnormal*, Electric strength*, Imp lame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*,	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, essential Battery reverse current*, Ball pressure*, Leakage current*, subs*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,	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	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
ieneral test methods: "ower inputs," Permanence of marking*, Acces- neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TID*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. Component abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subles*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ted 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	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: "ower input*, Permanence of marking*, Acceseneasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TTlb*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa'unctionality*, Protective impedance abnormal*	Limited current*, Capacitor Discharge / voltage ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sess*, Battery reverse current*, Ball pressure*, Leakage current*, hulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, 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 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
icercal test methods: 'ower input*, Permanence of marking*, Accese neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition; TTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str. 'omponent abnormal*. Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock 'orque*, Insulation resistance*, Sound level*, 'Transformer shorts/overlods*, Rain test*, Wa 'unctionality*, Protective impedance abnorma	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subles*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ted 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	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
ieneral test methods: ower input*, Permanence of marking*, Acceseasurement*, SELV circuits*, TNV limits*, mitation*, Ring signal*, Humidity conditioni TTI)*, Limited power measurement*, Ground applied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strength*, Impam*, Needle flame*, Hot flaming oil*, Lock orque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin,	Limited current*, Capacitor Discharge / voltage ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sess*, Battery reverse current*, Ball pressure*, Leakage current*, hulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, 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 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 Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General
ieneral test methods: ower inpute, "Permanence of marking", Acces- neasurement", SELV circuits", TNV limits*, mitations", Ring signals", Humidity conditioni TI)", Limited power measurements", Ground spiplied force*, Steel sphere impact*, Mold str ormponent abnormals". Electric strengths", Imp tame*, Needle flame*, Hot flaming oil*, Lock orque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, roduct Safety Standards	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ted rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 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	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
ieneral test methods: ower input, "Permanence of marking", Acceseasurement", SELV circuits", TNV limits*, mitation", Ring signal", Humidity conditioni TI)", Limited power measurement", Ground applied force*, Steel sphere impact", Mold stromponent abnormal*, Electric strength*, Impane*, Needle flame*, Hot flaming oil*, Lock orque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnorma apply abnormal*, Cooling abnormal*, Heating roduct Safety Standards pecific Product Safety Standards	Limited current*, Capacitor Discharge / voltage ng*, Crepage, Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sesses, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, 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 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	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
ieneral test methods: ower inpute, "Permanence of marking", Accesseasurement", SELV circuits", TNV limits*, mitations", Ring signal", Humidity conditioni TTI)", Limited power measurement", Ground applied force*, Steel sphere impact", Mold stromponent abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lock orque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heating troduct Safety Standards. pectific Product Safety Standards IL 60950 2000	Limited current*, Capacitor Discharge / voltage ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ted rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 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	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
ieneral test methods: ower inputs, 'Permanence of marking', Acces- neasurement', SELV circuits', TNV limits', imitation', Ring signal', 'Humidity conditioni TI)', Limited power measurement', Ground upplied force', Steel sphere impact', Mold stromponent abnormal', Electric strength', Implame', Needle flame', Hot flaming oil', Lock orque', Insulation resistance', Sound level', 'Tansformer shorts/overloads', Rain test', Wa 'unctionality', 'Protective impedance abnorma upply abnormal'. Cooling abnormal', Heatin, 'product Safety Standards. Jecific Product Safety Standards II. 60950 2000 EC 60950 1999 No 60950 2000 No 60950 2000	Limited current*, Capacitor Discharge / voltage ng*, Crepage, Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure, 1:30mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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	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 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
icineral test methods: "Ower inputs," Permanence of marking*, Access neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni 2Tl*, Limited power measurement*, Ground hyplied force*, Steel sphere impact*, Mold st component abnormal*, Electric strength*, Imp lame*, Needle flame*, Hot flaming oil*, Lock forque*, Insulation resistance*, Sound level*, Iransformer shorts/overloads*, Rain test*, Wa "unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, Product Safety Standards JL 60950 2000 EC 60950 1999 N 60950 2000 EC 60950 12001	Limited current*, Capacitor Discharge / voltage ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, eses*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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	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	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
ieneral test methods: ower inputs, 'Permanence of marking', Accese neasurement', SELV circuits', TNV limits', mitation', Ring signal', Humidity conditioni TIJ's, Limited power measurement', Ground upplied force', Steel sphere impact', Mold str component abnormal', Electric strength', Imp lame', Needle flame', Hot flaming oil', Lock orque', Insulation resistance', Sound level', 'ransformer shorts/overloads', Rain test', Wa unctionality', Protective impedance abnorma upply abnormal', Cooling abnormal', Heatin, 'roduct Safety Standards Leopsol 2000 EC 60950 2000 EC 60950 1999 N. 60950 2000 EC 60950-1 2001 IL 60950-1 2001 IL 60950-1 2003	Limited current*, Capacitor Discharge / voltage ng*, Crepage, Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure, 1:30mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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	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	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: Genera requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and
ieneral test methods: "Ower inputs", Permanence of marking*, Acces- neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity conditioni TID*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strengils*, Implame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer short/soverloads*, Rain test*, Wa- 'unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, "Orduct Safety Standards "Deceptic Product Safety Standards II. 60950 2000 EC 60950 1999 EC 60950 1999 EC 60950-1 2001 II. 60950-1 2001 II. 60950-1 2001 II. 60950-1 2001 II. 60950-1 2001 II. 60950-1 2001 II. 60950-1 2001 II. 60950-1 2001 II. 60950-1 2001	Limited current*, Capacitor Discharge / voltage ng*, Crepage, Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure, 1:30mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il 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	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1996 IEC 60335-1 2001 IEC 60335-1 2001 IEC 60335-1 2002 IEC 61010-1: 2002 IEC 61010-1: 2001 AS/NZS 60950: 2000 IEC 60950-1: 2001 AS/NZS 60950.1: 2003 IEC 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
ieneral test methods: ower input*, Permanence of marking*, Acces neasurement*, SELV circuits*, TNV limits*, mitation*, Ring signal*, Humidity conditioni TTI*, Limited power measurement*, Ground typlied force*, Steel sphere impact*, Mold str component abnormal*, Electric strength*, Imp lame*, Needle flame*, Hot flaming oil*, Lock orque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa 'unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin 'troduct Safety Standards IL 60950 2000 EC 60950 1999 EN 60950 2000 EC 60950 1901 IL 60950-1 2001 IL 60950-1 2001 IL 60950-1 2001 IL 60950-1 2003 SAA C2.2.2 No. 60950-00 SCA C2.2.2 No. 60950-10 SCA C2.2.2 No. 60950-10	Limited current*, Capacitor Discharge / voltage ge*, Crepage, Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, sesses, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, 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.	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	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
ieneral test methods: ower input, "Permanence of marking", Acceseasurement", SELV circuits", TNV limits*, mitation", Ring signal", Humidity conditioni TI)", Limited power measurement", Ground pplied force*, Steel sphere impact", Mold stromponent abnormal*, Electric strength*, Impame*, Needle flame*, Hot flaming oil", Lock orque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnormal upply abnormal*, Cooling abnormal*, Heatin, roduct Safety Standards L. 60950, 2000 E. 60950-1 2001 E. 60950-1 2001 E. 60950-1 2001 SA C22.2 No. 60950-0 SA C22.2 No. 60950-1 03 EC 61010-1 1993	Limited current*, Capacitor Discharge / voltage ng*, Crepage, Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, ulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, I*, 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.	IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1995 IEC 60335-1 1996 IEC 60335-1 2001 IEC 60335-1 2001 IEC 60335-1 2002 IEC 61010-1: 2002 IEC 61010-1: 2001 AS/NZS 60950: 2000 IEC 60950-1: 2001 AS/NZS 60950.1: 2003 IEC 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 Medical Electrical Equipment, Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General
ieneral test methods: ower inputs, "Permanence of marking", Accesseasurement", SELV circuits", TNV limits*, mitation", Ring signal", Humidity conditioni TII)*, Limited power measurement", Ground upplied force*, Steel sphere impact*, Mold stromponent abnormal*, Electric strength*, Implame*, Needle flame*, Hot flaming oil*, Lockorque*, Insulation resistance*, Sound level*, rarisformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heating roduct Safety Standards IL 60950 2000 EC 60950 1999 N 60950 2000 EC 60950-1 2001 EL 60950-1 2003 SA C 22.2 No. 60950-00 SSA C 22.2 No. 60950-10 3 EC 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*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, "*, 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, Safety requirements for electrical equipment for measurement,	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 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
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ieneral test methods: ower inputs, "Permanence of marking", Accesseasurement", SELV circuits", TNV limits*, mitation", Ring signal", Humidity conditioni TII)*, Limited power measurement", Ground applied force*, Steel sphere impact", Mold stromponent abnormal*, Electric strength*, Impame*, Needle flame*, Hot flaming oil*, Lockorque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heating troduct Safety Standards IL 60950 2000 EC 60950 1999 EC 60950 1999 EC 60950-1 2001 IL 60950-1 2001 SA C 22.2 No. 60950-10 3 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993, 2001 EC 61010-1 2003	Limited current*, Capacitor Discharge / voltage ng*, Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, eses*, Battery reverse current*, Ball pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, Leakage current*, sulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Nutri- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment, Safety of information technology equipment, Safety of information technology equipment, Safety of information technology equipment, 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.	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 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 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 – Part1: 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 Requirements For Safety 1: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 2: Section 1-1. Collateral Medical Electrical Equipment - Part 1: General Requirements For Safety 5: Section 1-1. Collateral
ieneral test methods: ower input*, Permanence of marking*, Acces neasurement*, SELV circuits*, TNV limits*, mitation*, Ring signal*, Humidity conditioni Tily*, Limited power measurement*, Ground applied force*, Steel sphere impact*, Mold str component abnormal*, Electric strength*, Imp ame*, Needle flame*, Hot flaming oil*, Lock orque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unetionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heatin, roduct Safety Standards IL 60950 2000 EC 60950 1200 EC 60950 1999 IN 60950 2000 EC 60950-1 2001 IL 60950-1 2003 SAC C22 ZN 6.00950-103 EC 61010-1 1993, 2001 EC 61010-1 1993, 2001 EC 61010-1 2001 IL 61010B-1 2003 AN/CSA 1010-1 1999 (Including AM 2) AN/CSA 1010-1 1999 (Including AM 2)	Limited current*, Capacitor Discharge / voltage ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, nulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 18. 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.	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 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 60601-1-1: 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 requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Collateral Standard: Safety Requirements For Safety Collateral Standard: Safety Requirements For Safety Collateral Standard: Safety Requirements For Safety Collateral Standard: Safety Requirements For Safety Collateral Standard: Safety Requirements For Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems
ieneral test methods: ower inputs, "Permanence of marking", Accesseasurement", SELV circuits", TNV limits*, mittation", Ring signal", Humidity conditioni TITI", Limited power measurement", Ground applied force*, Steel sphere impact", Mold stromponent abnormal*, Electric strength*, Impame*, Needle flame*, Hot flaming oil*, Lock orque*, Insulation resistance*, Sound level*, ransformer shorts/overloads*, Rain test*, Wa unctionality*, Protective impedance abnorma upply abnormal*, Cooling abnormal*, Heating today (Cooling), Product Safety Standards 11. 60950 2000 EC 60950 1999 N. 60950 2000 EC 60950-1 2001 LI 60950-1 2001 SA C22.2 No. 60950-00 SA C22.2 No. 60950-10 3 EC 61010-1 1993, 2001 EC 61010-1 1993, 2001 EC 61010-1 2001 ANICSA 1010-1 1999 (Including AM 2) EC 60601-1 1995	Limited current*, Capacitor Discharge / voltage ng*. Crepage / Clearance / Distance trun Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subs*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, I*, 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 2000-5 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: 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 Information Technology Equipment – Safety – General requirements Hedical Electrical Equipment, Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Expuipment Requirements For Safety 1: Collateral 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 Audio, Video and Similar Electronic Apparatus – Safety Audio, Video and Similar Electronic Apparatus – Safety Audio, Video and Similar Electronic Apparatus – Safety Audio, Video and Similar Electronic Apparatus – Safety Audio, Video and Similar Electronic Apparatus – Safety Audio, Video and Similar Electronic Apparatus – Safety
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Environmental Simulation			Nate 1 For standards or makeds listed on the course of consideration without a maining data laboratory	
Test Technology Accessibility* Acoustic Noise* Airborne Contaminants Altitude Cold Start* Drip	Test Standard IEC 60529 GR-63-CORE Sec 4.6 GR-63-CORE Sec 4.5 GR-63-CORE Sec 4.1.3 ETS 300 019 IEC 60529	Supporting Standards IP-0x thru IP-6x MFG & Hygroscopic Dust IEC 60068-2-1 IP-x1 & IP-x2	Note 1. For standards or methods listed on the scope of accreditation without a revision date, labor expected to be competent in the use of the current version within one year of the date of publicatio standard test method originator when the ori implementation authority. When a superseded standard or method is required for an accredited test will include the superseded date/version. For those that support the TCB/CB status of the organiza as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal Reg publication of changes for FCC and 30 days after IC website update. This note shall not be constructed.	on of the iginator has t, the scope tion acting ister
Drops* Dust Firearms Resistance Testing	ETS 300 019 GR-63-CORE Sec 4.3 IEC 60529 GR-487	IEC 60068-2-32 IP-5x & IP-6x	Accreditation Body implication to adopt a more current standard than is required in a regulation or the legal requirement) which is adopted by the lab under their responsibility.	r code (i.e.
Fire Resistance Heat Dissipation* Illumination	ANSI.T1.319 GR-63-CORE Sec 4.2 GR-63-CORE Sec 4.1.4 GR-63-CORE Sec 4.7	Fire & Needle Flame	* On-site test service is available for this technology, test, or method.	
Operational Temperature & Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-56		
Salt Fog & Spray	GR-63-CORE Sec 4.1.2 ASTM B117 GR-63-CORE Sec 2.0 & 3.0	120 00000 2 30		
Spatial* Spraying-Splashing Storage (Temperature & Humidity)*	IEC 60529 ETS 300 019	IP-x3 & IP-x4 IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-30		
Vibration	GR-63-CORE Sec 4.1.1 ETS 300 019	IEC 60068-2-56 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-32 IEC 60068-2-57 IEC 60068-2-64		
Water Immersion Water Jet	GR-63-CORE Sec 4.4 IEC 60529 IEC 60529	Earthquake, Office & Transportation IP-x7 & IP-x8 IP-x5 & IP-x6		
A2LA Cert. No. 1627.01) 3/27/06		Page 9 of 10	(A2LA Cert. No. 1627.01) 3/27/06	age 10 of 10