

Test Report

Report No H0825-2 Client InterSense, Inc Address 36 Crosby Drive Bedford, MA 01730 Phone 781-541-7616 Items tested IS900 Micro-Transmitter FCC ID TK5910EWTX IC ID 6414A-910EWTX FRN 0013917356 **Equipment Code** DTS 2M70G1D **Emission Designator** FCC/IC Rule Parts 47 CFR 15.247, RSS 210 issue 7 and RSS GEN issue 2 July 19th, 20th, 26th, and 29th 2007 Test Dates Results As detailed within this report Prepared by David Harris - Test Engineer Authorized by Michael Buchholz - EMC Manager Issue Date 8/30/07 Conditions of Issue This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 31 of this report.

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

Testing Cert. No. 1627-01



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



Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247 and RSS-210. The product is the IS900 Micro-Transmitter MN100-91000-EWTX. It is a transciever that operates in the range 2405-2480MHz.

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

Test Methodology

Radiated emission and AC Line conducted testing was performed according to the procedures specified in ANSI C63.4 (2003) and RSS-GEN. Radiated Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity. The device antenna cannot be maximized separately.

The EUT does not have an antenna gain <6dBi. Therefore there is no limit reduction. [15.247 (b) (4)]

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

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

The environmental conditions are shown below.

Date	Temperature	Humidity
7/19/07	24.4°C	49%
7/20/07	24.8°C	41%
7/26/07	25.1°C	38%
7/29/07	25.1°C	39%

The following bandwidths were used during radiated spurious and line conducted emissions.

Frequency	RBW	VBW
0.15-30MHz	9kHz	30kHz
30-1000MHz	120kHz	1MHz
1-25GHz	1MHz	3MHz

Release Control Record

Issue No. Reason for change

1 Original Release

Date Issued August 30, 2007



Product Tested - Configuration Documentation

EUT Configuration

Work Order: H0825

Company: InterSense, Inc Company Address: 36 Crosby Drive

Bedford, MA 01730

Contact: Bob Hommel

EUT MN SN

Transmitter 100-91000-EWTX ETX-0707254-A

EUT Description: Wireless Wand and Head Tracker System

EUT Max Frequency: 2.48GHz

Support Equipment:	MN	SN
Head Tracker	100-91003-AWHT	UHT-0707258-A
Receiver	100-IS9MW-RX16	19W-0707260-A
Compaq Presario Laptop	1670	1V92CGX3P4TS
Serial to RS232 Dongle	N/A	NA

Serial to RS232 Dongle N/A NA
Dongle Supply (9Vdc) KSAFE0900275T1M2 NA

EUT Cables:	Qty	Shielded?	Length	Ferrites	
Head Tracker Cable	1	Braid	1m	None	
Receiver Cable	1	Braid	1m	None	
Charger side of charger power cable	1	Braid	1.5m	None	
Mains side of charger power cable	1	None	1.5m	None	

Unpopulated EUT Ports: Qty Reason

None

Software / Operating Mode Description:

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



Statement of Conformity

The IS900 Micro-Transmitter has been tested and found to conform to the following parts of 47 CFR, RSS-GEN and RSS 210 as detailed below:

RSS-GEN	RSS 210	Part 15	Comments
5.3		15.15(b)	There are no controls accessible to the user that varies the output power.
5.2		15.19	The label is shown in the label exhibit.
7.1.5		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
		15.31	The EUT was tested in accordance with the measurement standards in this section.
		15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
		15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
7.1.4		15.203	The antenna for this device is hardwired to the PCB.
	2.6	15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209.
7.2.2		15.207	EUT meets the AC Line conducted emissions requirements of 15.207.
	Annex 8	15.247	The unit complies with the requirements of 15.247
4.6.1			Occupied Bandwidth measurements were made.

Test Results

Bandwidth

LIMIT

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

MEASUREMENTS / RESULTS

RBW = 100kHzVBW = 3MHz

Measured 6dB bandwidth = Channel 0 - 1.625MHz Channel 7 - 1.615MHz Channel 15 - 1.605MHz

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

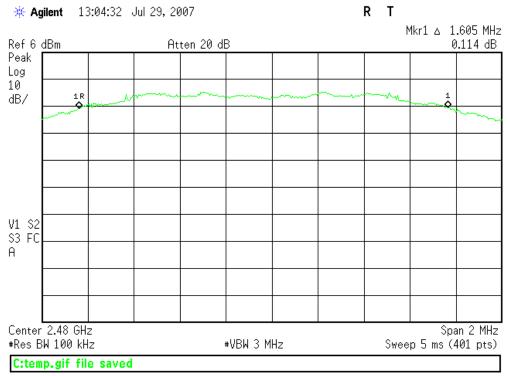
PLOTS



Channel 0 6dB Bandwidth



Channel 7 6dB Bandwidth



Channel 15 6dB Bandwidth

Peak Power

LIMIT

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

MEASUREMENTS / RESULTS

RBW = 3MHzVBW = 3MHz

Cable loss factored into Spectrum Analyzer Reading.

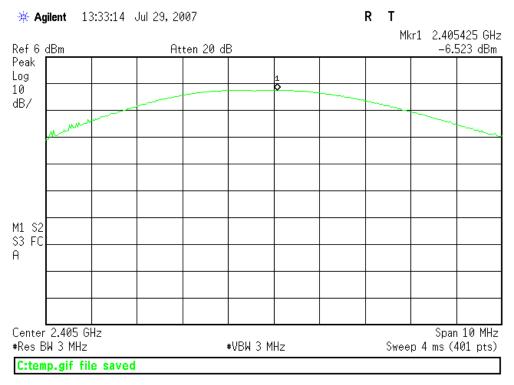
Measured conducted output power – Channel 0 = -6.523dBm = 0.00022W

Channel 7 = -5.764dBm = 0.00027W

Channel 15 = -5.007 dBm = 0.00032W

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

PLOTS



Channel 0 Peak Conducted Output Power Channel 0





Channel 0 Peak Conducted Output Power Channel 7



Channel 0 Peak Conducted Output Power Channel 15



Band Edge Measurements

LIMITS

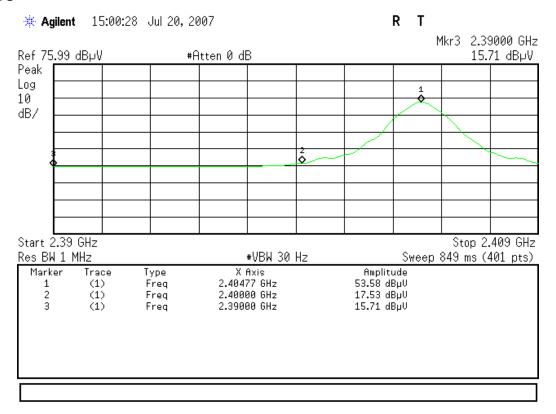
Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). [15.247(d)]

MEASUREMENTS / RESULTS

Band Ed	ge										Curtis-St	raus LLC		
Date:	20-Jul-07	77 Company: Intersense Work Order: H083							H0825					
Engineer:	David Harris			EUT Desc:	Wireless	s Head T	racker Trar	nsmitter						
								N	leasuremei	nt Distance:	3 m			
Antenna			Preamp	Antenna	Cable	DCC	Adjusted		FCC			Part 15.209		
Polarization	Frequency	Reading	Factor	Factor	Factor	Factor	Reading			Limit	Margin	Result		
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dB)	(dBµV/m)			(dBµV/m)	(dB)	(Pass/Fail)		
Hpk	2390.0	15.7	0.0	28.9	1.4	0.0	46.0			74.0	-28.0	Pass		
Hav	2390.0	15.7	0.0	28.9	1.4	20.0	26.0			54.0	-28.0	Pass		
Hpk	2483.5	19.5	0.0	29.1	1.4	0.0	50.0			74.0	-24.0	Pass		
Hav	2483.5	19.5	0.0	29.1	1.4	20.0	30.0			54.0	-24.0	Pass		
Table	e Result:	Pass	by	-14.9	dB				W	orst Freq:	2483.5	MHz		
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-H	IGH-14		Analyzer: Orange		Antenna:	Black Horn			

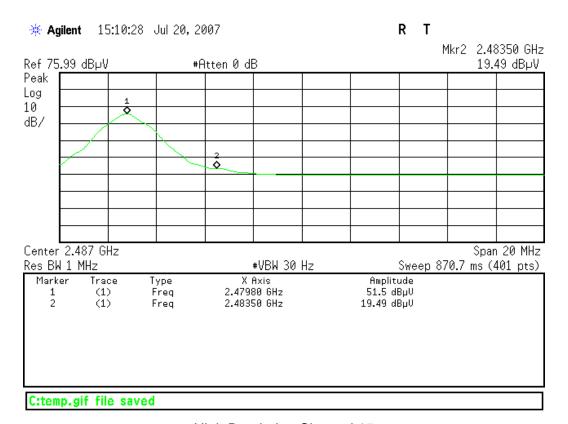
RBW = 1MHzVBW = 3MHz

PLOTS



Low Bandedge Channel 0





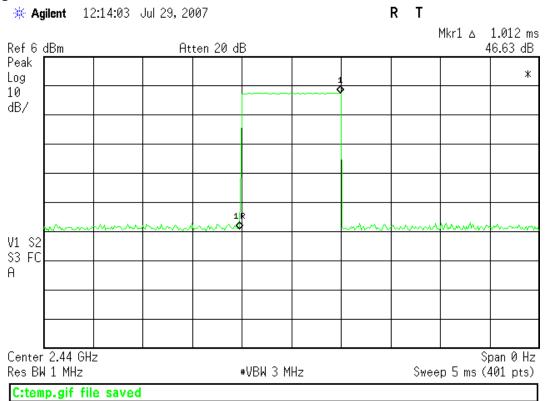
High Bandedge Channel 15

Duty Cycle Correction Calculation

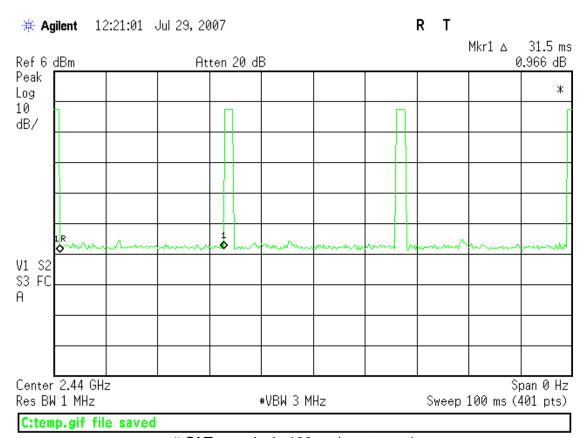
MEASUREMENTS / CALCULATIONS

EUT on time = 1.012mS # of transmits in 100mS = 4 Total on time = 1.012 x 4 = 4.048mS Duty Cycle = 4.048/100 = .04048 = 4.0484% DCCF = 20log(4.048/100) = -27.8552dB Max DCCF = -20dB

PLOTS



EUT on Time of Single Pulse



Of Transmits in 100ms (worst case)

Radiated Spurious Emissions

LIMITS

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

MEASUREMENTS / RESULTS

Harmoni	cs (puls	ed emis	ssions)						Curtis-St	aus LLC
Date:	26-Jul-07			Company:	Intersen	se		W	ork Order:	H0825
Engineer:	David Harris		1	EUT Desc:	Wireless	s Head Trac	ker Transmitter			
	Freque	ncy Range:	1-18GHz				Measu	rement Distance: 3	3 m	
Notes:	Radiated Spu 20dB DCCF	irious Emissi	ons Harmo	nics				EUT Max Freq: 2	2.4GHz	
Antenna			Preamp	Antenna	Cable	Adjusted		FC	C Part 15.2	09
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)		Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
Channel 0										
Vpk	4810.0	61.6	39.5	33.0	1.8	56.9		74.0	-17.1	Pass
Vav	4810.0	41.6	39.5	33.0	1.8	36.9		54.0	-17.1	Pass
Channel 7										
Vpk	4880.0	61.2	39.4	33.1	1.8	56.7		74.0	-17.3	Pass
Vav	4880.0	41.2	39.4	33.1	1.8	36.7		54.0	-17.3	Pass
Channel 15										
Vpk Vav	4960.0 4960.0	61.7 41.7	39.7 39.7	33.2 33.2	1.8 1.8	57.0 37.0		74.0 54.0	-17.0 -17.0	Pass Pass
Table	e Result:	Pass	by	-17.0	dB			Worst Freq:	4960.0	MHz
Test Site: "F" Pre-Amp: Brown Cable: EMIR-HIGH-21 Analyzer: Orange Antenna: Orange Horn					n					

Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC	
	Date: 26-Jul-07 Engineer: David Harris			Company: Intersense EUT Desc: Wireless Wand				Work Order: H0825				H0825	
Liigiileer.		ncy Range:		LOT Desc.	vviieles.	- wanu	Measurement Distance: 3 m						
Notes:	Notes: Radiated Spurious Emissions EUT Max Freq: 2.4GHz 10Hz VBW												
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class	В	
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)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	
Channel 15 Vpk	4955.5	52.9	 39.6	33.2	 1.8	 48.3				 54.0	 -5.7	 Pass	
Table	Table Result: Pass by -5.7 dB					Wo	orst Freq:	4955.5	MHz				
Test Site:	"F"	Pre-Amp:	Brown	Cable:	EMIR-H	IGH-21	Analyzer: Orange Antenna: Orange Horn			'n			

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

Conducted Spurious Emissions

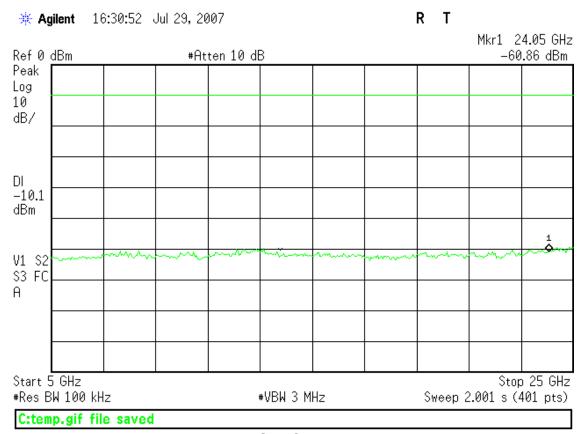
LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth that contains the highest level of desired power...
[15.247(d)]

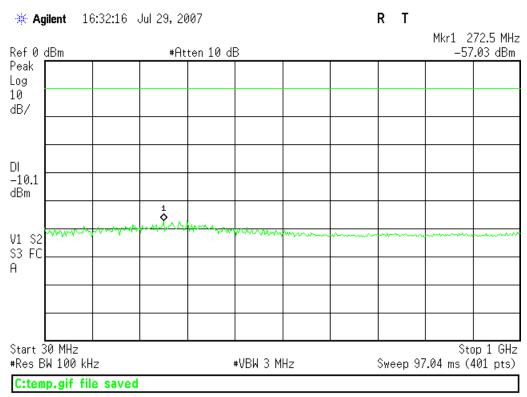
MEASUREMENTS / RESULTS

RBW = 100kHzVBW = 3MHz

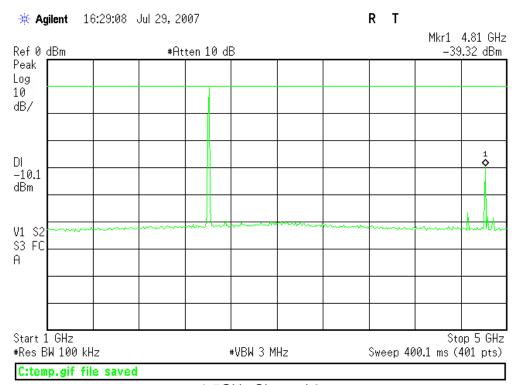
EUT was in TX/RX mode. All Spurious and Harmonic emission are at least 20dB below that of the fundamental; therefore the EUT passes the requirement. See plots for data.



5-25GHz Channel 0

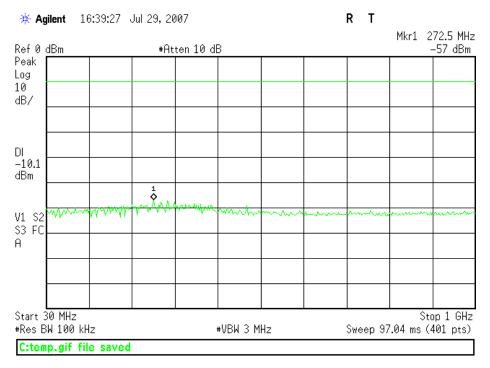


30-1000MHz Channel 0

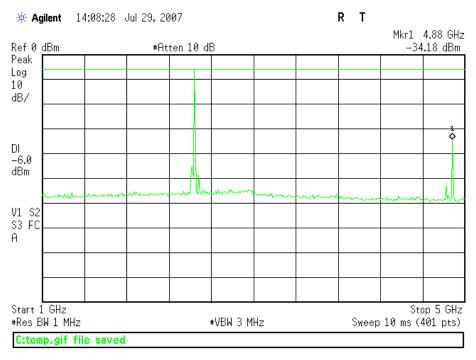


1-5GHz Channel 0





30-1000MHz Channel 7

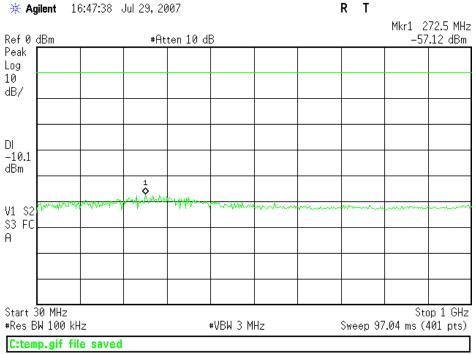


1-5GHz Channel 7

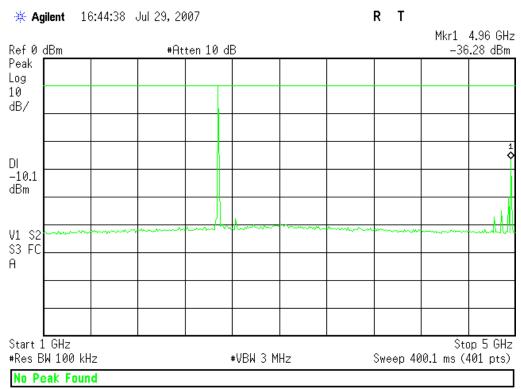




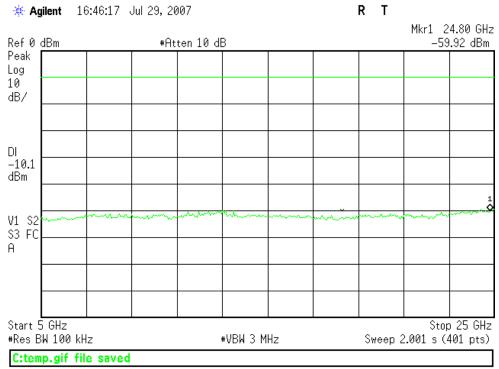
5-25GHz Channel 7



30-1000MHz Channel 15



1-5GHz Channel 15



5-25GHz Channel 15



Power Spectral Density

LIMIT

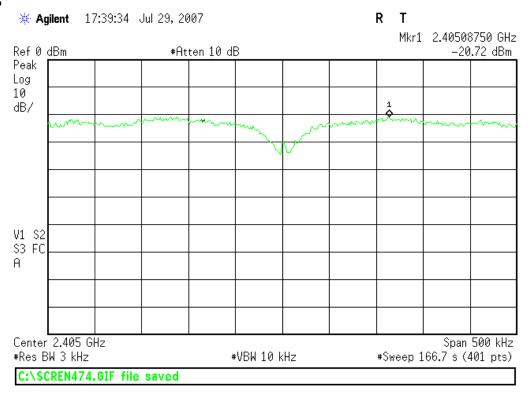
...the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. [15.247(e)]

MEASUREMENTS / RESULTS

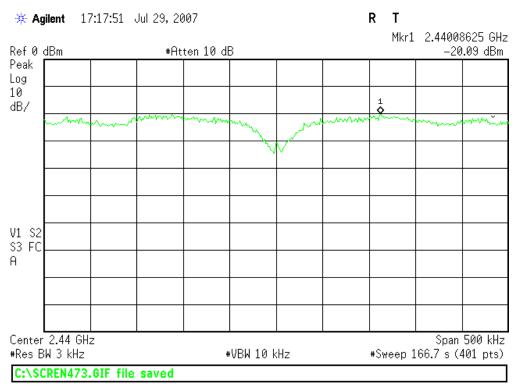
Highest Power Spectral Density – Channel 0 = -20.72dBm Channel 7 = -20.09dBm Channel 15 = -19.79dBm

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

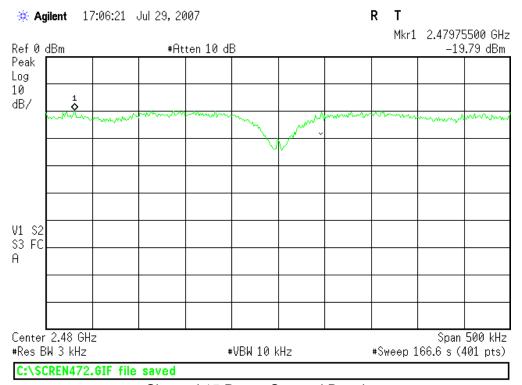
PLOTS



Channel 0 Power Spectral Density



Channel 7 Power Spectral Density



Channel 15 Power Spectral Density

AC Line Conducted Emissions
LIMITS

Frequency of emission (MHz)	Quasi-peak limit (dBµV)	Average limit (dBµV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

MEASUREMENTS / RESULTS

AC line conducted emissions test is Not Applicable on the EUT because the EUT is battery powered. However the battery charger was tested with the EUT Charging.

AC Mains Conducted Emissions Curtis-Straus												us LLC
Date:	19-Jul-07		C	ompany:	Intersense						Work Order:	H0825
Engineer:	David Harris		E	UT Desc:	Charger Dock						Test Site:	EMI 2
Notes:												
Measurement	Measurement Device: Yellow-Black LISN											
Range:	0.15-30MHz								Spectr	um Analyzer:	Yellow	
					Impedance	-	FCC Part 15.209 FCC Part 15.209					
	Q.P. Re	adings	Ave. Re	eadings	Factor	ctor			Overall			
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)
0.15	29.0	29.5	8.0	11.5	20.6			66.0	-15.9	56.0	-23.9	Pass
1.00	0.7	1.0	0.4	0.3	20.1			56.0	-34.9	46.0	-25.5	Pass
5.00	2.4	2.6	1.6	1.4	20.1			56.0	-33.3	46.0	-24.3	Pass
10.00	3.0	3.2	1.5	1.3	20.1			60.0	-36.7	50.0	-28.4	Pass
15.00	3.2	3.2	1.4	1.4	20.2			60.0	-36.6	50.0	-28.4	Pass
25.00	3.2	3.3	1.2	1.3	20.3			60.0	-36.4	50.0	-28.4	Pass
Table	Result:	Pass	by	-15.89	dB				Wo	orst Freq:	0.15	MHz

Voltage Variations

REQUIREMENT

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

MEASUREMENTS / RESULTS

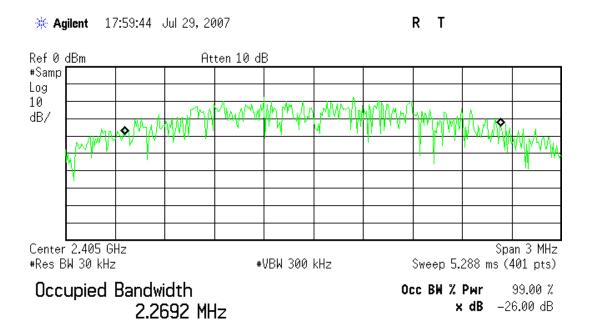
Voltage Variations test is Not Applicable because the EUT is battery powered.



Occupied Bandwidth

REQUIREMENT

When an occupied bandwidth is no specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured. [RSS-GEN 4.6.1]

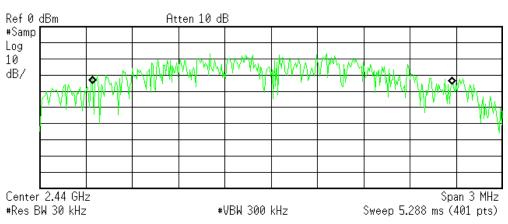


Transmit Freq Error -2.767 kHz x dB Bandwidth 2.863 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 0

★ Aqilent 18:02:49 Jul 29, 2007 R T

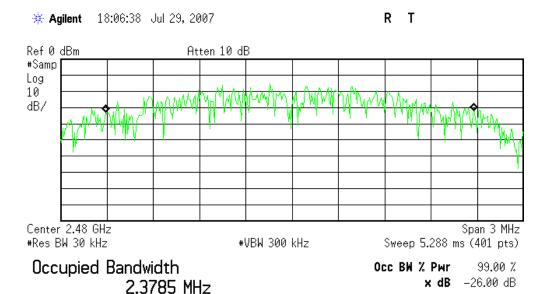


Occupied Bandwidth 2.3258 MHz Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 7.915 kHz x dB Bandwidth 2.806 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 7



Transmit Freq Error -14.794 kHz x dB Bandwidth 2.804 MHz*

C:temp.gif file saved

99% Occupied Bandwidth Channel 15



Test Equipment Used

MIXER

MIXER / HORN

MIXER / HORN

MIXER / HORN

75-110 GHz

60-90 GHz

90-140 GHz

140-220 GHz

				Rev. 30-JUL-2007						
SPECTRUM ANAL RECEIVER		RANGE	MN	l MFi	R	SN	ASSET	Сат	г	CALIBRATION DUE
RED		9kHz-1.8GHz	8591	IE Agile	ent 344	1A03559	00024	I		08-JAN-2008
WHITE		9kHz-22GHz	8593	BE Agile	ent 3547	7U01252	00022	ı		06-OCT-2007
BLUE		9kHz-1.8GHz	8591	IE Agile	ent 3223	3A00227	00070	- 1		18-DEC-2007
YELLOW		9kHz-2.9GHz	8594			3A01958	00100	- 1		08-JUN-2008
GREEN		9kHz-26.5GHz	8593			9A03618	00143	1		Out of Cal
BLACK		9kHz-12.8GHz				A00944	00337	i		Out of Cal
TELECOM 35	85Δ	20Hz-40.0MHz				1A05219	00030	i		15-FEB-2008
TELECOM 35		20Hz-40.0MHz				0A03418	00558	i		Out of Service
TELECOM 35		20Hz-40.0MHz				0A02762	01067	- :		Out of Service
ORANGE		9kHz-26.5GHz				9440975	00394	- :		Out of Service
			E440	-			1284	- !		
GOLD	T DE0511/50	100Hz-26.5 GHz				5113816		!		25-JUL-2008
REFERENCE EMI TES		20-1000MHz	ESVS			957/001	01098	. !		To be determined
RENTAL SA #1 (E	,	9kHz-26.5GHz				4210511	Rental	!		01-FEB-2008
RENTAL SA		100Hz-26.5 GHz	E740			4212795	Rental	!		28-DEC-2007
RENTAL SA		9kHz-1.8GHz	85911			6A00617	Rental	I		25-JUL-2008
RENTAL SA	#4	100Hz-3 GHz	E740	2A Agile	ent MY4	5103221	Rental	<u> </u>		23-JUL-2008
LISNS/MEASURE	MENT	RANGE		MN	MFR	SN	.1	ASSET	Сат	CALIBRATION DUE
PROBES									CAI	
RED		9kHz-50MHz		-R-24-BNC	SOLAR	9563		00753	!	06-JUN-2008
BLUE (DC)		50kHz-50MHz		-R-24-BNC	SOLAR	9563		00752	!	06-JUN-2008
YELLOW-BLAC	K	9kHz-50MHz		-R-24-BNC	SOLAR	0411		00248	ļ.	24-MAY-2008
ORANGE		9kHz-30MHz		-R-24-BNC	SOLAR	9037		00754	I	07-MAY-2008
GOLD (DC)		9kHz-50MHz	8012-50	-R-24-BNC	SOLAR	9847		00247	ı	13-JUN-2008
Brown		50kHz-50MHz	8012-50	-R-24-BNC	SOLAR	0411	656	00986	- 1	12-JUN-2008
GREEN		9kHz-50MHz	8012-50	-R-24-BNC	SOLAR	9847	735	00987	- 1	12-JUN-2008
YELLOW		9kHz-50MHz	8012-50	-R-24-BNC	SOLAR	0411	658	1080	- 1	06-JUN-2008
WHITE-BLACK	(10kHz-30MHz		-TS-100-N	SOLAR	9720		00678	- 1	17-MAY-2008
BLACK		10kHz-30MHz		-TS-100-N	SOLAR	9720		00675	Ĺ	18-MAY-2008
RED-BLACK		10kHz-30MHz		-TS-100-N	SOLAR	9720		00677	i	18-MAY-2008
BLUE-BLACK		10kHz-30MHz			SOLAR	9720		00676	i	17-MAY-2008
BLUE MONITORING F		0.01-150MHz	8610-50-TS-100-N			TEGAM 1235		00807	-	31-MAY-2009
			91550-2							
YELLOW MONITORING		0.01-150MHz	91550-2			ETS 5097		00493	!	23-JAN-2008
GREEN CURRENT TRANS		40Hz-20MHz		150	PEARSON			00793	!	19-APR-2009
BLUE CISPR LINE P		10kHz-50MHz		N/A	C-S	N/A		00805	II	08-JUN-2009
BLACK CISPR LINE F		10kHz-50MHz		N/A	C-S	N/A		1254	II	08-JUN-2009
CISPR TELCO VOLTAG		10kHz-30MHz		A/C-10	C-S	CS		00296	II	17-NOV-2007
CISPR 22 TELCO	ISN	9kHz-30MHz	FCC-T	TLISN-T4	FISCHER	201	15	00746	ı	15-NOV-2007
OPEN AREA TES	ST SITES (O	ATS)	FCC Co		IC CODE	VC	CI CODE	Сат		CALIBRATION DUE
		~ · · · · ·								
	TE F		9344	-	IC 2762A-		2-1688	II.		23-JUN-2008
	тЕТ		9344		IC 2762A-		R-905	II		23-JUN-2008
	те А		9344		IC 2762-A		R-903	Ш		20-JUN-2008
	ге М		9344	-	IC 2762-N		₹-904	II		19-JUN-2008
Sı	TE J		9344	8	IC 2762A-	3 R	2-2377	II		12-APR-2008
CONDUCTED TEST S	SITES (MAINS	s/Telco)	FCC Co	ODE	IC CODE	V	CCI CODE		Сат	CALIBRATION DUE
	MI 1	/	9344		N/A		801, T-20		III	NA
	MI 2		9344	-	N/A		802, T-20		iii	NA NA
	MI 3		9344		N/A		803, T-20			NA NA
MIXERS/DIPLEXERS	RANGE	MN		MFR		SN		SSET	Сат	CALIBRATION DUE
MIXER / HORN	MIXER / HORN 26.5-40 GHz 11970/			HP/ATM	2332A01695/A046903-01			1087	ı	23-AUG-2007
Mixer / Horn	MIXER / HORN 26.5-40 GHz		\/28-442-6 HP/ATM		3003A07	825/A046903	3-01 1	1086	1	19-SEP-2007
Mixer / Horn	40-60 GHz	M19HW	I/A	OML	L	U30110-1			- 1	29-JUN-2009
MIXER	33-50 GHz	11970	Q	HP	30	03A03155	0	0104	- 1	08-NOV-2007
Mixer / Horn	50-75 GHz	11970V /QWH-	VPRROO	HP/QuinStar		1197/87940		179	1	15-NOV-2007
MIVER	75 110 CH			ЦD		21 1 01 22 4		0105		22 NOV 2007

ı

00105

00822

00811

00812

11970W

M12HW/A

MO8HW/A

MO5HW/A

HP

OML

OML

OML

2521A01334

E30110-1

F21206-1

G21206-1

22-NOV-2007

29-JUN-2009

29-JUN-2009

29-JUN-2009

DIPLEXER	40-220 GHz	DPL.26	OML		N/A	0	0813	1	29-JUN-2009
ABSORBING CLAMPS	RANGE	MN		MFR	SN	ASSE	т (CAT	CALIBRATION DUE
FISCHER CLAMP	30-1000MHz	F-201-23	MM l	FISCHER	10	0008	1	I	20-JAN-2008
	N	A	14		ONI	Λ.		0	0
HARMONIC & FLICKER A		MN 6842A	MFR HP		SN A-00169		738	CAT II	OUT OF CAL
10001I/2 AC POWER S			DRNIA INSTRUMEN		7/HK53688		376	ii	09-JAN-2008
PREAMPS/									
ATTENUATORS / FILTERS	RANGE		MN	MFR	S	SN	ASSET	Сат	CALIBRATION DUE
RED	0.009-2000MH		-1000-LN	C-S		/A	00798		20-APR-2008
BLUE BLUE-BLACK	0.009-2000MH 0.009-2000MH		·1000-LN ·1000-LN	C-S C-S		/A /A	00759 00800		17-APR-2008 18-JAN-2008
GREEN	0.009-2000MH		·1000-LN	C-S		/A /A	00800		02-MAY-2008
BLACK	0.009-2000MH		·1000-LN	C-S		/A	00799		19-JUL-2008
ORANGE	0.009-2000MH		-1000-LN	C-S	N	/A	00765	II	02-MAY-2008
RED-WHITE	0.009-2000MH		·1000-LN	C-S		/A	1258	II	08-MAY-2008
WHITE	1-20GHz		1C-12A	C-S		643	00760		09-JUL-2008
BROWN VELLOW BLACK	1-20GHz		3-4R5-17-15-SFF	C-S C-S		1655 5055	1132	II II	02-APR-2008
YELLOW-BLACK RED-GREEN	1-20GHz 1-20GHz	_	MC-12A 3-4R5-17-15-SFF	C-S C-S		/A	00801 1256	II II	OUT OF SERVICE 14-AUG-2007
RED-BLUE	1-20GHz		3-4R5-17-15-SFF	C-S		7A 3177	1257	ii	19-APR-2008
HF (YELLOW)	18-26.5GHz		02650-60-8P-4	C-S		'559	1266	ï	23-AUG-2007
HIGH PASS FILTER	1-18 GHz		-F-55204	K&L		36	00817	II	05-JAN-2008
Low Pass Filter	1-9 GHz	11SL10-4	100/X4400-O/O	K&L		4	00816	II	05-JAN-2008
HIGH PASS FILTER	2.3-5.5 GHz		HP-19	MINI-CIRCUIT		IA	1287	II	05-JAN-2008
HIGH PASS FILTER	1.9-2.7 GHz		HP-16	MINI-CIRCUIT		IA	1288	II	05-JAN-2008
HF 20DB 50W ATTENUATOR			7019-20	PASTERNAC)1	00791	II	08-MAY-2009
HF 30DB 50W ATTENUATOR 40DB 100W ATTENUATOR	0.03-20 GHz 0.09-4000MHz		7019-30 0N100W+	PASTERNAC MINI-CIRCUIT)2 1900638	1168 1231	 	08-MAY-2009
RFI-Low 130 KHz LPF	10-100kHz Pas		KHZ LPF	Kiwa		1A	1235	ii	08-NOV-2007 12-MAR-2008
111 2511 150 111 12 21 1	10 100111121710	100				., .	1200		12 100 (17 2000
ANTENNAS	RANGE	MN	MFR	SN	ASSET	Сат		CALIBR	ATION DUE
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	II			N-2008
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	II.			N-2008
GREEN-RED BILOG BLUE BILOG	30-2000MHz 30-1000MHz	CBL6112B 3143	CHASE EMCO	2435 1271	00990 00803	l II			PR-2008 AY-2009
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	ii	07-MAY-) / 04-FEB-2008(RFI2)
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	ii			I) /20-APR-2008(RFI)
RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	1			OV-2008
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	I			CT-2008
RED-BROWN BILOG	30-2000MHz	JB1	SUNOL	A0032406	1218	!			JG-2008
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	!		•) / 14-JUN-2008 (RFI)
BLACK HORN ORANGE HORN	1-18GHz 1-18GHz	3115 3115	EMCO EMCO	9703-5148 0004-6123	00056 00390	!) / 16-MAY-2008 (RFI)) / 16-MAY-2008 (RFI)
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE	0004-0123	00390	i	12-3011-2		JG-2007
SMALL LOOP	10KHz-30MHz	PLA-130/A	ARA	1024	00755	i			EB-2008
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067	i			N-2008
ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMCO	3824	00068	İİ			JN-2008
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778	II			EP-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1370	00757	į.			CT-2008
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	l I			OV-2008
RE101 LOOP SENSOR RS101 RADIATING LOOP	30Hz-100kHz 30Hz-100kHz	RE101-13.3cm RS101-12cm	C-S C-S	N/A N/A	00818 00819	II II			AR-2009 AR-2009
RS101 LOOP SENSOR	30Hz-100kHz	RS101-12CM	C-S	N/A	00819	ii			AR-2009 AR-2009
EFT		MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
CAS 3025 BURST VERIFICATION ATTENUAT	rors INA 2	265A/266	SCHAFFNE	ER	20096		00947	II	28-JUN-2008
EFT DIRECT COUPLING		N/A	C-S		01		00794	II	19-JUL-2008
MODULA6150		ULA6150	TESEQ		34525	00	1268	l 	11-Jul-2008
RED BESTEMC-2									
EMC PRO PLUS		1-1100 PRO PLUS	SCHAFFNE KEYTEK		00122-074 0608208		00623 RENTAL	II II	13-APR-2008 17-MAY-2008

								011			_			
ESD GENE			MN			MFR		SN		SSET	САТ	C	CALIBRATION DI	
Gree Red			NSG435 NSG435			AFFNER AFFNER		00839 01625)763)762	1		25-OCT-2007 06-FEB-2008	
YELLO		ļ	930D			ETS	U	201)673	i		18-AUG-2007	
TELLO	, v v		330D			_10		201	- 00	707 3			10 700 2007	
DIPS ANI	D INTERRUPT	s	IM	N	MF	R		SN		ASSET	Сат	CALI	BRATION DUE	7
Мог	DULA6150		Modul	A6150	TES	EQ	;	34525		1268	ı	11	1-JUL-2008	7
INA 6502 AUTOMA	ATIC STEPTRANS	FORMER	INA 6	502	TESI			105		1269	I	11	-JUL-2008	
10001I/2 AC	POWER SYST	EM	(2) 5	001	CALIFO		HK5368	37/HK536	88	00376	П	21	-JUN-2008	
Red B	BESTEMC-2		711-1	100	SCHAF	FNER	2001	22-074SC		00623	Ш	17	7-APR-2008	
CHAMBERS AND	STOID! INF		MN			MFR		SN	Asse	ET CA	T 0	'ALIDDA'	TION DUE	
RFI 1 CHA		3 MF	ETER COM	IPACT	P	ANASHIEL	D	N/A	0079				R-2008	
RFI 2 CHA		_	" SHIELDING			INDGREN		13329	0079				B-2008	
RFI 3 STR	IPLINE		N/A			C-S		N/A	0079				IA.	
ENVIRONMENT	. ,		ECL5	_		8-M-A INC		2041	0002				N-2008	
ENVIRONMENT	AL (SAFETY)		SGTH-31	S	В	8-M-A Inc		2245	0032	21 I		03-JAI	N-2008	
AMPLIFIERS	RANGE	M	IN	MFR		SN	ASSET	Сат			CALIBR	ATION E	DUE	
RED	0.5-1000MHz		000B	AR		8708	00032	II			28-JAN-	,	,	
GREEN	0.5-1000MHz		000B	AR		3423	00123	II	00.1		04-FEB-	,	,	ים בוי
BLUE BLACK	0.01-250MHz 0.01-250MHz		.250 .250	AR AR		9165 3411	00039 00122	II II			,		N-2008 (NEBS C EBS) / 20-APR-08 (,
ORANGE	0.01-250MHz		.250 .250	AR		6827	00122	"		,	,	,	:55) / 20-APR-08 (-JUN-2008 (EU)	, ,
BROWN 150W	0.1-250MHz			AR		13454	1255	ii			04-FEB-	,	, ,	,
GTC 1-2.6	1.0-2.6 GHz		5016A	GTC		1221	RENTAL	II	14-Jl				RN) / 28-JUN-2008	(BLK)
HUGHES 10W	2.0-4.0GHz	1177	7H01	HUGHES		055	RENTAL	II		•			Y-2008 (BLK & ORA	,
HUGHES 10W	4.0-8.0GHz		H02F	HUGHES		240	RENTAL	II		,		,	Y-2008 (BLK & ORA	,
HUGHES 10W	8-10.0GHz		108	HUGHES		138	RENTAL	II	14-Jl	•		,	Y-2008 (BLK & ORA	ANGE)
HP495A AUDIO AMP	7.0-10.0GHz AUDIO FREQ	MPA	195A	HP RADIO SHACK		1-00237 00438	00086 NONE	II III		OU	T OF SE	RVICE (;	SPARE)	
AUDIO AMP	AUDIO FREQ	MPA		RADIO SHACK		08545	00862	III				NA		
						JUU-10	00002	111				14/7		
FIELD F			RANGE	M	N	MF	R	SN		ASSET	C#	λT	CALIBRATION	
Re	ED .	0.01	1-1000MHz	z HI-4	N 422	MF Hola	R DAY	SN 90369		00031		λT	23-MAR-20	800
Re Gre	ED EEN	0.01 0.01	1-1000MHz 1-1000MHz	z HI-4 z HI-4	N 422 422	MF HOLA HOLA	R DAY DAY	SN 90369 97363		00031 00136	C#	λT	23-MAR-20 25-JUL-200	008 07
Re Gre Bl	ED EEN UE	0.01 0.01	1-1000MHz 1-1000MHz 1-1000MHz	z HI-4 z HI-4 z HI-4	N 422 422 422	MF HOLA HOLA HOLA	R DAY DAY DAY	SN 90369 97363 95696		00031 00136 01100	C#	λT	23-MAR-20 25-JUL-200 18-APR-200	008 07 08
Re GRE BLI Reference Las	ED EEN UE er Field Prob	0.01 0.01 0.01 e 0.1	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz	z HI-4 z HI-4 z HI-4 FL7 Star F	N 422 422 422 422 006 Probe	MF HOLAI HOLAI HOLAI	R DAY DAY DAY	SN 90369 97363 95696 321700		00031 00136 01100 1252	C#	λT	23-MAR-20 25-JUL-200 18-APR-200 23-FEB-200	008 07 008 08
Re Gre Bl	ED EEN UE er Field Prob	0.01 0.01 0.01 e 0.1	1-1000MHz 1-1000MHz 1-1000MHz	z HI-4 z HI-4 z HI-4 FL7	N 422 422 422 422 006 Probe	MF HOLA HOLA HOLA	R DAY DAY DAY	SN 90369 97363 95696		00031 00136 01100	C#	λT	23-MAR-20 25-JUL-200 18-APR-200	008 07 008 08
Re Gre BL Reference Las MICROWAVE S	ED EEN UE er Field Prob URVEY METER	0.01 0.01 0.01 e 0.1	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz	z HI-4 z HI-4 z HI-4 FL7 Star F HI-1	N 422 422 422 422 006 Probe	MF HOLAI HOLAI AF HOLAI	R DAY DAY DAY	SN 90369 97363 95696 321700 0007546	4	00031 00136 01100 1252 1244	CA I I I	AT	23-MAR-20 25-JUL-20(18-APR-20) 23-FEB-20(09-JAN-20(008 07 008 08 08
Reference Las MICROWAVE S SIGNAL GENE	ED EEN UE er Field Prob URVEY METER	0.01 0.01 0.01 e 0.1	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz :450MHz	z HI-4 z HI-4 z HI-4 FL7 Star F HI-1	N 422 422 422 422 006 Probe	MF HOLAI HOLAI AF HOLAI	R DAY DAY DAY DAY DAY	SN 90369 97363 95696 321700	4	00031 00136 01100 1252 1244 ASSET	C#	AT	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20	008 07 008 08 08
Re Gre BL Reference Las MICROWAVE S	ED EEN UE er Field Prob URVEY METER ERATORS	0.01 0.01 0.01 e 0.1 RANG	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz 450MHz SE	z HI-4 z HI-4 z HI-4 FL7 Star F HI-1	N 422 422 422 422 006 Probe	MF HOLAI HOLAI AF HOLAI	R DAY DAY DAY DAY	SN 90369 97363 95696 321700 0007546	2192	00031 00136 01100 1252 1244	C#	AT	23-MAR-20 25-JUL-20(18-APR-20) 23-FEB-20(09-JAN-20(008 07 008 08 08 08
Reference Las MICROWAVE S SIGNAL GENE RED	ED EEN UE er Field Prob URVEY METER ERATORS	0.01 0.01 0.01 e 0.1 2 2 RANG	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz 450MHz BE DMHz MHz	z HI-4 z HI-4 z HI-4 FL7 Star F HI-1 MN HP8648B	N 422 422 422 422 006 Probe	MF HOLAI HOLAI AF HOLAI MFR Agilen Agilen	R DAY DAY DAY TO DAY TO DAY To DAY To DAY	SN 90369 97363 95696 321700 0007546 SN 3847U0	2192 0548	00031 00136 01100 1252 1244 ASSET 00366	C#	AT	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20 CALIBRATION 03-APR-20	008 07 008 008 008 008 1 DUE
Reference Las MICROWAVE S SIGNAL GENE BLUE GREEN ORANG	ED EEN UE er Field Prob URVEY METER ERATORS	0.01 0.01 0.01 e 0.1 2 2 RANG 0.09-2000 0.1-1000 0.09-2000 0.1-1000	1-1000MHz 1-1000MHz -6000MHz -450MHz BE DMHz MHz DMHz MHz	Z HI-4 Z HI-4 Z HI-4 FL7 Star F HI-1 MN HP8648B HP8648B HP8648B	N 422 422 422 006 Probe 501	MF HOLAI HOLAI AF HOLAI MFR Agilen Agilen Agilen	R DAY DAY DAY t t t t	SN 90369 97363 95696 321700 0007546 SN 3847U0: 3426A00 3623A0: 3537A0	2192 0548 2072 1210	00031 00136 01100 1252 1244 ASSET 00366 00034 00125 00025	C#	AT	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20 CALIBRATION 03-APR-20 23-AUG-20 16-OCT-20 19-JUN-20	008 07 108 08 08 08 08 1 DUE 008 007 007
Reference Las MICROWAVE S SIGNAL GENE RED BLUE GREEN ORANG BROWN	ED EEN UE er Field Prob URVEY METER ERATORS N EE	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz -450MHz BE DMHz MHz DMHz JMHz JMHz JMHz	Z HI-4 Z HI-4 Z HI-4 FL7 Star F HI-1 MN HP8648B HP8648B HP8648B HP8648B	N 422 422 422 006 Probe 501	MF HOLAI HOLAI AF HOLAI MFR Agilen Agilen Agilen Agilen	R DAY DAY DAY t t t t t	SN 90369 97363 95696 321700 0007546 SN 3847U0: 3426A00 3623A0: 3537A0: US3601	2192 0548 2072 1210 6621	00031 00136 01100 1252 1244 ASSET 00366 00034 00125 00025 1211	C#	AT	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20 CALIBRATION 03-APR-20 23-AUG-20 16-OCT-20 19-JUN-20 OUT OF SER	008 07 008 08 08 08 008 008 007 007 008 EVICE
Reference Las MICROWAVE S SIGNAL GENE RED BLUE GREEN ORANG BROWN WHITE	ED EEN UE er Field Prob URVEY METER ERATORS N EE	0.01 0.01 0.01 e 0.1 2 2 RANG 0.09-2000 0.1-1000 0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz 2450MHz BE DMHz MHz DMHz DMHz DMHz DMHz DMHz DMHz	MN HP8648B HP8648B HP8648B HP33120A	N 422 422 422 006 Probe 501	MFR HOLAI HOLAI HOLAI MFR Agilen Agilen Agilen Agilen Agilen Agilen	R DAY DAY DAY t t t t t t	SN 90369 97363 95696 321700 0007546 SN 3847U0: 3426A0 3623A0: 3537A0: US3601 US3604	2192 0548 2072 1210 6621 8143	00031 00136 01100 1252 1244 ASSET 00366 00034 00125 00025 1211 1219	C#	AT	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20 CALIBRATION 03-APR-20 23-AUG-20 16-OCT-20 19-JUN-20 OUT OF SER 17-MAY-20	008 07 008 08 08 08 008 007 007 007 008 EVICE
REGRENCE LAS MICROWAVE S SIGNAL GENE RED BLUE GREEN ORANG BROWN WHITE BROWN-W	ED EEN UE ER Field Prob URVEY METER ERATORS N IE IE II II II II II II II II II II II	0.01 0.01 0.01 0.01 0.01 0.01 0.09-2000 0.1-1000 0.01+Z-15 0.01+Z-15 0.01+Z-15	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz -450MHz 	MN HP8648B HP8648B HP8648B HP83120A HP33120A	N 422 422 422 006 Probe 501	MFR HOLAI HOLAI HOLAI MFR Agilen Agilen Agilen Agilen Agilen Agilen Agilen Agilen	R DAY DAY TO DAY TO DAY To D	SN 90369 97363 95696 321700 0007546 SN 3847U0: 3426A0 3623A0: 3537A0: US3604 US3604 SG4001	2192 0548 2072 1210 6621 8143 9842	00031 00136 01100 1252 1244 ASSET 00366 00034 00125 00025 1211 1219 1232	C#	AT	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20 CALIBRATION 03-APR-20 23-AUG-20 16-OCT-20 19-JUN-20 OUT OF SER 17-MAY-20 10-NOV-20	008 07 108 08 08 08 08 1 DUE 008 007 007 008 EVICE 008
REGRENCE LAS MICROWAVE S SIGNAL GENE RED BLUE GREEN ORANG BROWN WHITE BROWN-W BLUE-WH	ED EEN UE er Field Prob URVEY METER ERATORS N SE N HITE HITE	0.01 RANG 0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.1Hz-13	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz -450MHz	MN HP8648B HP8648B HP33120A HP33120A HP33120A	N 422 422 422 006 Probe 501	MFR HOLAI HOLAI HOLAI MFR Agilen Agilen Agilen Agilen Agilen Agilen Agilen Agilen Agilen Agilen	R DAY DAY DAY t t t t t t t t	SN 90369 97363 95696 321700 0007546 SN 3847U0: 3426A0: 3537A0: US3601: US3604 SG4001 1432A0:	2192 0548 2072 1210 6621 8143 9842 7632	00031 00136 01100 1252 1244 ASSET 00366 00034 00125 00025 1211 1219 1232 00775	CA I I I C	AT I I I I I I I I I I	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20 03-APR-20 23-AUG-20 16-OCT-20 19-JUN-20 OUT OF SER 17-MAY-20 21-MAR-20	008 07 008 08 08 08 007 007 008 eVICE 008 007 008
REGRENCE LAS MICROWAVE S SIGNAL GENE RED BLUE GREEN ORANG BROWN WHITE BROWN-W BLUE-WH SWEEPE	ED EEN UE er Field Prob URVEY METER ERATORS N EE N E HITE HITE ER	RANG 0.09-2000 0.1-1000 0.01Hz-15 0.01Hz-15 0.01Hz-13 0.01-20.0	1-1000MHz 1-1000MHz 1-1000MHz -6000MHz -450MHz BE DMHz MHz DMHz MHz DMHz MHz SMHz SMHz SMHz SMHz SMHz SMHz	MN HP8648B HP8648B HP8648B HP33120A HP33120A HP33120A HP33120A HP33752A	N 422 422 422 006 Probe 501	MFR HOLAI HOLAI HOLAI MFR Agilen Agilen Agilen Agilen Agilen Agilen Agilen Agilen Agilen Agilen	R DAY DAY DAY t t t t t t t t t t	SN 90369 97363 95696 321700 0007546 SN 3847U0: 3426A0: 3537A0: US3604: US3601: US3604: SG4001 1432A0: 3610A0:	2192 0548 2072 1210 6621 8143 9842 7632 1133	00031 00136 01100 1252 1244 ASSET 00366 00034 00125 00025 1211 1219 1232 00775 00087	CA I I I C	AT	23-MAR-20 25-JUL-20 18-APR-20 23-FEB-20 09-JAN-20 09-JAN-20 03-APR-20 23-AUG-20 19-JUN-20 OUT OF SER 17-MAY-20 10-NOV-20 21-MAR-20 08-MAY-20	008 07 008 08 08 08 007 007 008 007 008 007 008 007
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BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 0.3-NOV-2007 (Blue Awp) 29-DEC-2007 (BluS) 28-JUN-2008 (O GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1177 II 0.3-NOV-2007 (Blue Awp) 29-DEC-2007 (BluS) 28-JUN-2008 (O GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1259 II 0.3-NOV-2007 (Blue Awp) 29-DEC-2007 (BluS) 28-JUN-2008 (O FOR AWP) (PC) (Box AWP) 29-DEC-2007 (BluS) 28-JUN-2008 (OFOR AWP) (PC) (Box AWP) 29-DEC-2007 (BluS) 28-JUN-2008 (OFOR AWP) (PC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2008 (DC) (BluS) 28-JUN-2	Brown	0.10-100MHz	M-3	C-S	1169) II	03	3-NOV-2007 (BLU	E АмР) 29-DEC	-2007 (BLK	() 28-JUN-2008 (ORANGE)
BROWN-BLACK 0.10-100MHz M-2 (DC) C-S 1171 II 0.3-NOV-2007 (Blue Aur) 29-DEC-2007 (Blu2) 28-JUN-2008 (O GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1177 II 0.3-NOV-2007 (Blue Aur) 29-DEC-2007 (Blu2) 28-JUN-2008 (O GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1259 II 0.3-NOV-2007 (Blue Aur) 29-DEC-2007 (Blu2) 28-JUN-2008 (O FOR METER) 20-DEC-2007 (Blu2) 28-JUN-2008 (Blu2) 28-JUN-20	BROWN-WHITE							,	,	,	, ,
RED-BLACK 0.10-100MHz M-2 (DC) C-S 1177 II 03-NOV-2007 (BLUE AMP) 29-DEC-2007 (BLX) 28-JUN-2008 (OF GREEN-WHITE 0.10-100MHz M-2 (DC) C-S 1259 II 03-NOV-2007 (BLUE AMP) 29-DEC-2007 (BLX) 28-JUN-2008 (OF YELLOW (RES) 0.10-100MHz 100Ω C-S 0.0810 II 04-NOV-2007 (BLUE AMP) 29-JAN-2008 (BLX) 28-JUN-2008 (OF GREEN (RES) 0.10-100MHz 100Ω RESISTOR C-S 1172 II 03-NOV-2007 (BLUE AMP) 29-JAN-2008 (BLX) 28-JUN-2008 (OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1262 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II 04-JUN-2008 OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 1263 II OF ARTIFICIAL HAND 510Ω / 220 PF C-S AH C-S 0.00 PF C-S AH C-S ATTIFICIAL HAND 510Ω / 220 PF C-S AH C-S ATTIFICIAL HAND C-S ATTIFICIAL	BROWN-BLACK							•	,		,
GREEN-WHITE 0.10-100MHz 100Ω			` ,					•	,		,
Yellow (Res) 0.10-100MHz Resistor C-S 00810 II 04-NOV-2007 (Blue Amp) 02-JAN-2008 (Bluk) 28-JUN-2008 (DR GREEN (RES) 0.10-100MHz Resistor C-S 1172 II 03-NOV-2007 (Blue Amp) 02-JAN-2008 (Bluk) 28-JUN-2008 (DR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1262 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1262 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND 510Ω / 220 PF CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND CR ARTIFICIAL HAND CS-AH C-S 1263 II 04-JUN-2008 CR ARTIFICIAL HAND CR ARTIFICIAL			` ,					`	,	,	,
GREEN (RES) 0.10-100MHz	_		100Ω ´					,	•	,	
ARTIFICIAL HAND 510Ω/220PF CS-AH C-S 1262 II 04-JUN-2008 ARTIFICIAL HAND 510Ω/220PF CS-AH C-S 1263 II 04-JUN-2008 RMS VOLTMETERS/CURRENT CLAMP MN MNFR SN ASSET CAT CALIBRATION TRUE-RMS MULTIMETER 79III FLUKE 71700298 00769 I 27-OCT-20 TRUE RMS MULTIMETER 79III FLUKE 71700298 10269 I 22-MAR-20 TRUE-RMS MULTIMETER 179 FLUKE 89280616 1228 III NOT CALOTO TO TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390024 00973 I 22-MAR-20 TRUE-RMS MULTIMETER (1177 FLUKE 83390025 00974 I 22-MAR-20 TRUE-RMS MULTIMETER (1177 FLUKE 83390025 00974 I 22-MAR-20 TRUE-RMS MULTIMETER (1177 FLUKE 83390025 00974 I 22-MAR-20 TRUE-RMS MULTIMETER (11600M) 177 FLUKE 83390025 00974 I 22-MAR-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 SURGE GENERATORS MN MFR SN ASSET CAT CALIBRATION TRANSIENT WAVEFORM MONITOR TWM-5 CDI 003982 00323 II 05-JUN-2 UNIVERSAL SURGE GENERATOR M5 CDI 003966 00324 II CAL BEFORE 1.2x500S PLUGIN MODULE 1.2x500S PLUGIN CDI N/A 00842 II CAL BEFORE 1.2x500S PLUGIN MODULE 1.2x500S PLUGIN C-S N/A 00841 II CAL BEFORE 1.2x500S PLUGIN MODULE 1.0x1600S PLUGIN C-S N/A 00841 II CAL BEFORE PSURGE CONTROLLER MODULE 1.0x600S PLUGIN C-S N/A 00841 II CAL BEFORE PSURGE CONTROLLER MODULE PSURGE 8000 HAEFELY 150267 00879 II 05-JUN-2 COUPLING/DECOUPLING MODULE PN 900 HAEFELY 150267 00879 II 05-JUN-2 NEBS SURGE GENERATOR N/A C-S N/A 00841 II CAL BEFORE 10x500S PLUGIN MODULE PN 900 HAEFELY 149213 00880 II 05-JUN-2 NEBS SURGE GENERATOR N/A C-S N/A 00846 II CAL BEFORE 10x700US SURGE GENERATOR N/A C-S N/A 00846 II CAL BEFORE 10x700US SURGE GENERATOR N/A C-S N/A 00846 II CAL BEFORE 112x500S DIRGE GENERATOR N/A C-S N/A 00847 II 06-JUN-2 NSG 2050 SURGE GENERATOR N/A C-S N/A 00847 II 06-JUN-2 NSG 2050 SURGE GENERATOR N/A C-S N/A 00846 II CAL BEFORE 112x10US SURGE GENERATOR N/A C-S N/A 00847 II 06-JUN-2 NSG 2050 SURGE GENERATOR N/A C-S N/A 00847 II 06-JUN-2 NSG 2050 SURGE GENERATOR N/A C-S N/A 00846 II CAL BEFORE 112x10US SURGE GENERATOR N/A C-S N/A 00847 II 06-JUN-2 N/A C-S N/A 00847 II 06-JUN-2 N/A C-S N/A 00846 II C-AL BEFORE	GREEN (RES)	0 10-100MHz	100Ω	C-S	1172) II	0:	3-NOV-2007(B) (FAMP) 02-JAN	-2008(Bi K) 28-JUN-2008 (ORANGE)
RMS VOLTMETERS/CURRENT CLAMP	, ,						0.	0 140 V 2007 (BLO	•	` '	20 0014 2000 (ORANGE)
MN											
TRUE-RMS MULTIMETER 79 FLUKE 71700298 00769 1 27-OCT-20 TRUE RMS MULTIMETER 179 FLUKE 89280616 1228 III NOT CAL'D TO JUNE 177 FLUKE 83390024 00973 1 22-MAR-20 170 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00974 1 22-MAR-20 170 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00974 1 22-MAR-20 170 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00974 1 22-MAR-20 170 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00975 1 22-MAR-20 170 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00975 1 22-MAR-20 170 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00975 1 22-MAR-20 170 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00975 1 22-MAR-20 170 TRUE-RMS MULTIMETER 170 TRUE-RMS MU											
TRUE RMS MULTIMETER (REFERENCE) 177 FLUKE 83390024 00973 I 22-MAR-20 TRUE-RMS MULTIMETER (REFERENCE) 177 FLUKE 83390025 00974 I 22-MAR-20 TRUE-RMS MULTIMETER 177 FLUKE 83390025 00974 I 22-MAR-20 TRUE-RMS MULTIMETER (TELECOM) 177 FLUKE 83390025 00974 I 22-MAR-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20 AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I CAL BEFORE 10.X160US PLUGIN MODULE 10.X160US PLUGIN C-S N/A 00843 II CAL BEFORE 10.X160US PLUGIN MODULE 10.X160US PLUGIN C-S N/A 00843 II CAL BEFORE PSURGE CONTROLLER MODULE 10.X560US PLUGIN C-S N/A 00841 II CAL BEFORE PSURGE CONTROLLER MODULE PSURGE 8000 HAEFELY 150267 00879 II 05-JUN-2 COUPLING/DECOUPLING MODULE PCD 900 HAEFELY 149213 00880 II 05-JUN-2 NEBS SURGE GENERATOR N/A C-S N/A 00846 II 05-JUN-2 AC/DC AC	RMS VOLTMETER	S/CURRENT CLAM			M	INFR		SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS MULTIMETER (REFERENCE)	TRUE-RMS	MULTIMETER	7	79III	Fı	LUKE		71700298		I	27-OCT-2007
TRUE-RMS MULTIMETER 177				179	Fı	LUKE		89280616	1228	Ш	Not Cal'd to 17025
TRUE-RMS MULTIMETER (TELECOM)										I	22-MAR-2008
AC/DC CURRENT PROBE A622 TEKTRONIX 08DD 6275DV 1246 I 31-JAN-20				177	Fı	LUKE		83390025	00974	I	22-MAR-2008
SURGE GENERATORS MN MFR SN ASSET CAT CALIBRATION TRANSIENT WAVEFORM MONITOR TWM-5 CDI 003982 00323 II 05-JUN-2 UNIVERSAL SURGE GENERATOR M5 CDI 003455 00324 II CAL BEFORE THREE PHASE COUPLING NWK 3CN CDI 003455 00325 II CAL BEFORE 1.2x50US PLUGIN MODULE 1.2x50US PLUGIN CDI N/A 00842 II CAL BEFORE 10x160US PLUGIN MODULE 10x160US PLUGIN C-S N/A 00843 II CAL BEFORE 10x560US PLUGIN MODULE 10x160US PLUGIN C-S N/A 00841 II CAL BEFORE PSURGE CONTROLLER MODULE PSURGE 8000 HAEFELY 150267 00879 II 05-JUN-2 PSURGE CONTROLLER MODULE PSURGE 8000 HAEFELY 149213 00880 II 05-JUN-2 COUPLING/DECOUPLING MODULE PD 900 HAEFELY 149213 00880 II 05-JUN-2 IMPU	TRUE-RMS MUL	TIMETER (TELECOM)			Fı	LUKE		83430419	00975	I	22-MAR-2008
TRANSIENT WAVEFORM MONITOR	AC/DC Cur	RENT PROBE	Δ	622	TEK	TRONIX	30	8DD 6275D∨	1246	l	31-JAN-2008
TRANSIENT WAVEFORM MONITOR	Supor C			NANI		Mer		CNI	A 005T	CAT	CALIDDATION DUE
Universal Surge Generator M5					_						
THREE PHASE COUPLING NWK 1.2x50US PLUGIN MODULE 1.2x50US PLUGIN CDI 1.2x50US PLUGIN MODULE 1.2x50US PLUGIN CDI 1.2x50US PLUGIN MODULE 10x160US PLUGIN MODULE 10x160US PLUGIN MODULE 110x560US PLUGIN C-S 10x560US PLUGIN MODULE 110x560US PLUGIN C-S 110x560US PLUGIN MODULE 110x560US PLUGIN MODULE 110x560US PLUGIN MODULE 110x560US MOSUS 110x560US MOSUS 110x560US MOSUS 110x560US MOSUS 110x560US MOSUS 110x560US MOSUS 110x560US MOSUS 110x560US MOSUS 110x560US MOSUS 110x560US M					.5						
1.2x50uS Plugin Module											CAL BEFORE USE
10x160uS Plugin Module 10x560uS Plugin 10x560uS Plugin Module 10x560uS Plugin C-S N/A 00843 II CAL Before 10x560uS Plugin Module 10x560uS Plugin C-S N/A 00841 II CAL Before PSURGE Controller Module PSURGE 8000 PSURGE 8000 HAEFELY 150267 00879 II 05-JUN-2 149213 00880 II 05-JUN-2 IMPULSE MODULE PIM 900 HAEFELY 149202 00881 II 05-JUN-2 HIGH VOLTAGE CAP NWK 5KVDC, 18μF CS-HVCC C-S 01 00772 II 09-APR-2 2x10uS Surge Generator N/A C-S N/A 00088 II 18-OCT-2 2x10uS Surge Generator 10x700uS Surge Generator 10x700uS Surge Generator 10x700uS C-S N/A 00846 II CAL Before 10x700uS Surge Resistor Module N/A C-S N/A 00768 II 18-OCT-2 VSS 500-M TSS 500 M12 S2 EMTEST V0502100032 1155 II CAL Before TSS 500-M TSS 500 M10 EMTEST V0502100031 1156 II CAL Before CAL Before CAL Before TSS 500 Surge Generator NSG 2050 TESEQ 200720-605LU 1273 I 11-JUL-20 CDN 133 3 PHASE COUPLING NETWORK CDN 133 TESEQ 34416 1274 I 11-JUL-20 RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L ION PHYSICS 896730 1276 II CAL Before CAL											CAL BEFORE USE
10x560uS Plugin Module PSURGE 600S Plugin PSURGE CONTROLLER MODULE PSURGE 8000 PSURGE 9000											CAL BEFORE USE
PSURGE CONTROLLER MODULE			_								CAL BEFORE USE
COUPLING/DECOUPLING MODULE IMPULSE MODULE PCD 900 PIM 900 HAEFELY HAEFELY 149213 149202 00880 00881 II 05-JUN-2 05-JUN-2 149202 HIGH VOLTAGE CAP NWK 5KVDC, 18μF NEBS SURGE GENERATOR CS-HVCC C-S 01 00772 II 09-APR-2 09-APR-2 00088 NEBS SURGE GENERATOR N/A C-S N/A 00088 II 109-APR-2 100-APR-2 10			-								CAL BEFORE USE
IMPULSE MODULE			PS								05-JUN-2008
HIGH VOLTAGE CAP NWK 5KVDC, 18μF CS-HVCC C-S 01 00772 II 09-APR-2											05-JUN-2008
NEBS SURGE GENERATOR											05-JUN-2008
2x10us Surge Generator 2x10us C-S N/A 00846 II Cal Before Cal Before 10x700us 10x700us Surge Generator 10x700us C-S N/A 00847 II 06-JUN-2 12 Pair Surge Resistor Module N/A C-S N/A 00768 II 18-OCT-2 VSS 500-M TSS 500 M12 S2 EMTEST V0502100032 1155 II CAL Before Calculation Calculatio		, ,	ιF								09-APR-2008
10x700uS Surge Generator 10x700uS C-S N/A 00847 II 06-JUN-2 12 Pair Surge Resistor Module N/A C-S N/A 00768 II 18-OCT-2 VSS 500-M TSS 500 M12 S2 EMTEST V0502100032 1155 II CAL BEFORI NSG 2050 Surge Generator NSG 2050 TESEQ 200720-605LU 1273 I 11-JUL-20 PNW 2050 1.2x50 Impulse Network PNW 2050 TESEQ 200711-604LU 1279 I 11-JUL-20 CDN 133 3 Phase Coupling Network CDN 133 TESEQ 34416 1274 I 11-JUL-20 MODULA6150 MODULA6150 TESEQ 34525 1268 I 11-JUL-20 RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L Ion Physics 896730 1276 II 26-Jul-20	NEBS SURG	E GENERATOR		N/A				N/A	88000	II	18-OCT-2007
12 Pair Surge Resistor Module N/A C-S N/A 00768 II 18-OCT-2 VSS 500-M TSS 500 M12 S2 EMTEST V0502100032 1155 II CAL BEFORI TSS 500-M TSS500 M10 EMTEST V0502100031 1156 II CAL BEFORI NSG 2050 SURGE GENERATOR NSG 2050 TESEQ 200720-605LU 1273 I 11-JUL-20 PNW 2050 1.2x50 IMPULSE NETWORK PNW 2050 TESEQ 200711-604LU 1279 I 11-JUL-20 CDN 133 3 Phase Coupling Network CDN 133 TESEQ 34416 1274 I 11-JUL-20 MODULA6150 MODULA6150 TESEQ 34525 1268 I 11-JUL-20 RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L Ion Physics 896730 1276 II 26-JUL-20				2x10u	S			N/A	00846	II	CAL BEFORE USE
VSS 500-M TSS 500 M12 S2 EMTEST V0502100032 1155 II CAL BEFORE TSS 500-M TSS 500 M10 EMTEST V0502100031 1156 II CAL BEFORE NSG 2050 SURGE GENERATOR NSG 2050 TESEQ 200720-605LU 1273 I 11-JUL-20 PNW 2050 1.2x50 IMPULSE NETWORK PNW 2050 TESEQ 200711-604LU 1279 I 11-JUL-20 CDN 133 3 PHASE COUPLING NETWORK CDN 133 TESEQ 34416 1274 I 11-JUL-20 MODULA6150 MODULA6150 TESEQ 34525 1268 I 11-JUL-20 RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L Ion Physics 896730 1276 II 26-JUL-20	10x700uS Sur	RGE GENERATOR		10x700	υS	C-S	3	N/A	00847	II	06-JUN-2008
VSS 500-M TSS 500 M12 S2 EMTEST V0502100032 1155 II CAL BEFORE TSS 500-M TSS 500 M10 EMTEST V0502100031 1156 II CAL BEFORE NSG 2050 SURGE GENERATOR NSG 2050 TESEQ 200720-605LU 1273 I 11-JUL-20 PNW 2050 1.2x50 IMPULSE NETWORK PNW 2050 TESEQ 200711-604LU 1279 I 11-JUL-20 CDN 133 3 PHASE COUPLING NETWORK CDN 133 TESEQ 34416 1274 I 11-JUL-20 MODULA6150 MODULA6150 TESEQ 34525 1268 I 11-JUL-20 RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L Ion Physics 896730 1276 II 26-JUL-20	12 Pair Surge F	RESISTOR MODULE						N/A	00768	II	18-OCT-2007
TSS 500-M TSS500 M10 EMTEST V0502100031 1156 II CAL BEFORI NSG 2050 SURGE GENERATOR NSG 2050 TESEQ 200720-605LU 1273 I 11-JUL-20 PNW 2050 1.2x50 IMPULSE NETWORK PNW 2050 TESEQ 200711-604LU 1279 I 11-JUL-20 CDN 133 3 PHASE COUPLING NETWORK CDN 133 TESEQ 34416 1274 I 11-JUL-20 MODULA6150 MODULA6150 TESEQ 34525 1268 I 11-JUL-20 RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L ION PHYSICS 896730 1276 II 26-JUL-20 CM-1-L	VSS	500-M	TS	S 500 M	112 S2			V050210003	2 1155	II	CAL BEFORE USE
PNW 2050 1.2x50 Impulse Network PNW 2050 Teseq 200711-604LU 1279 I 11-JUL-20 CDN 133 3 Phase Coupling Network CDN 133 Teseq 34416 1274 I 11-JUL-20 Modula6150 Modula6150 Teseq 34525 1268 I 11-Jul-20 Red BestEMC-2 711-1100 Schaffner 200122-074SC 00623 II 13-APR-2 Surge Current Monitor CM-1-L Ion Physics 896730 1276 II 26-Jul-20	TSS	500-M				EMTE	ST	V050210003	1 1156	II	CAL BEFORE USE
PNW 2050 1.2x50 Impulse Network PNW 2050 Teseq 200711-604LU 1279 I 11-JUL-20 CDN 133 3 Phase Coupling Network CDN 133 Teseq 34416 1274 I 11-JUL-20 Modula6150 Modula6150 Teseq 34525 1268 I 11-Jul-20 Red BestEMC-2 711-1100 Schaffner 200122-074SC 00623 II 13-APR-2 Surge Current Monitor CM-1-L Ion Physics 896730 1276 II 26-Jul-20	NSG 2050 Sur	RGE GENERATOR		NSG 20	050			200720-605L	.U 1273	I	11-JUL-2008
CDN 133 3 Phase Coupling Network CDN 133 TeseQ 34416 1274 I 11-JUL-20 Modula6150 Modula6150 TeseQ 34525 1268 I 11-Jul-20 Red BestEMC-2 711-1100 Schaffner 200122-074SC 00623 II 13-APR-2 Surge Current Monitor CM-1-L Ion Physics 896730 1276 II 26-Jul-20	PNW 2050 1.2x50	MPULSE NETWOR	K	PNW 20	050			200711-604L		ı	11-JUL-2008
MODULA6150 MODULA6150 TESEQ 34525 1268 I 11-Jul-20 RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L Ion Physics 896730 1276 II 26-Jul-20	CDN 133 3 PHASE	COUPLING NETWOR						34416		ı	11-JUL-2008
RED BESTEMC-2 711-1100 SCHAFFNER 200122-074SC 00623 II 13-APR-2 SURGE CURRENT MONITOR CM-1-L Ion Physics 896730 1276 II 26-Jul-20				10DULA6	3150					I	11-JUL-2008
SURGE CURRENT MONITOR CM-1-L ION PHYSICS 896730 1276 II 26-JUL-20										II	13-APR-2008
Davier Marine Marine	SURGE CURF	RENT MONITOR									26-Jul-2008
	Da //:			N 4 N 1		Mes		011	A	0:-	0.44 (5-1
				MN 35B		MFR		SN 2445A11012	ASSET	CAT	CALIBRATION DUE 03-APR-2008
										I I	03-APR-2008 03-APR-2008
										i	03-APR-2006 04-APR-2008



Power Meter		4232A	Воонтон	,	11000	1260	ı	24-JUL-2008
Power Sensor		51013-4E	BOONTON	3	34457	1261	1	24-JUL-2008
PSOPHOMETER		2429	BRUEL & KJAER	12	237642	00585	II	23-FEB-2009
TRANSMISSION LINE TESTER (DBI	RNC)	185T	AMREL	1850	7030010	1236	Ш	20-APR-2008
TRANSMISSION LINE TESTER (DBI	RNC)	185T	AMREL	9	98658	00823	II	03-JUL-2008
OVERVOLTAGE CHAMBERS	MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
72kW Power Fault Simulator	OV1	C-S		N/A		00792	Ш	N/A
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	III	N/A
DIPOLE TAPE MEASURES	N	ЛN	MFR		SN	ASSET	Сат	CALIBRATION DUE
26FT TAPE #1	233	BCME	LUFKIN		C3166-1	00776	II	22-MAR-2009
26FT TAPE #2	233	BCME	LUFKIN		C3166-2	00777	II	22-MAR-2009
METEOROLOGICAL METERS	S	MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSURE (GAUGE	7400 PERCEPTION II	Davis		N/A	00965	II	09-FEB-2009
TEMPERATURE /HUMIDITY GAU	GE	THG-912	Huger	2	4000562	00789	1	31-JAN-2009
WEATHER CLOCK (PRESSURE OF	NLY)	BA928	OREGON SCIE	NTIFIC	C3166-1	00831	I	08-FEB-2009
CONSUMABLES	S	PEC.	MFR	STO	ck/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHEESECLOTH	26-	28M/KG	ED&D	A	CC-01	N/A	Ш	N/A
NEBS CARBON BLOCK	3-MIL-GA	AP 1KV SURGE	RELIABLE	;	3AB	N/A	Ш	N/A

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

Conditions Of Testing

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

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

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



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

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

Rev.160009121(2)_#684340 v13CS



A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

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

Valid until: September 30, 2007

Certificate Number: 1627.01

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

Electromagnetic Compatibility (EMC)

Electromagnetic Compatibility (EMC)

Radiated emissions testing (clettric and magnetic fields)*; Conducted emissions testing (voltage and current)*; Electrostatic Discharge testing*; Electrostatic Discharge station and Voltage Variations testing*; Magnetic Immunity testing*; Eleptrostatic Properties of Statistics (Electrostatic Discharge Statistics) and Voltage Variations testing*; Magnetic Immunity testing*; EP Power measurements*; Frequency Stability Measurements*; Longitudinal Induction measurements*; Power Cross Overvoltage 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; ASNZS CISPR 22; ASNZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82; September 29, 2005); CISPR 11; EN 55011; SABS CISPR 11; ASNZS CISPR 11; ASNZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; ASNZS CISPR 13; ASNZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; ASNZS CISPR 14; ASNZS 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

I 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 "A2L4 Apecific criteria for the accreditation of site testing and site calibration laboratories."

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

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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

Telecom Standards North American standards

Australia/New Zealand Radio Standards

Family Product or Industry Specific Specifications

including emissions and/or immunity

FCC 47 CFR Part 68 Telephone Terminal Equipment CS-03 Issue 9

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

TIA/EIA TSB31-B 1998 TIA-968-A, A1, A2, A3

T1.TRO.6-2001

AS/ACIF S002-2001

AS/ACIF S016-2001

AS/ACIE S031-2001 AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001

International standards ITU-T G.703

Hong Kong standards HKTA 2011

HKTA 2014

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Electrostatic Discharge (ESD EN 61000-4-2; AS/NZS 61000.4.2; KN61000-4-2 Radiated Immunity (RFI) Electrical Fast Transient Bur EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3 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 EN 61000-4-8; AS/NZS 61000.4.8; KN61000-4-8 Magnetic Immunity Voltage Dips and Interrupts EN 61000-4-11; KN61000-4-11

EN 61000-2-2

GR-1089-CORE; GR-78-CORE (ESD)

GR-1089-CURE; GR-78-CURE (ESD) EN50081-1; EN50081-2; EN50082-2; EN50082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24 EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50130-4; EN 50083-2; EN 60601-1-2; EN 60601-2-2; EN 60601-2-24; EN 60601-2-32; EN 60001-2-2; EN 60001-2-24; EN 60001-2-3; EN 60601-2-47; IEC 1800-3; EN 61800-3; EN 55020; CISPR 20; EN 60555 Part 2; EN 60555 Part 3; ETS 300 386-1; EN 300 386-2; EN 300 386, ETS 300 132-1; ETS 300 132-2; EN 60669-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR 283: C62.41 Radiocommunications 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 301 489-01; EN 301 489-03; EN 301 489-17 EU R&TTE EMC Standards Canada Radio Standards RSS-102; RSS-117; RSS-118; RSS-119; RSS-123 RSS-102; RSS-118; RSS-118; RSS-117; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-187; RSS-188; RSS-191; RSS-192: RSS-193: RSS-195: RSS-210: RSS-212:

RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-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);

Otner Kaal	io Stanaaras	RTTE 01 (DG1-1aiwan);	
	dards and Test methods Support TCB S		
FCC Scope	e A – Unlicensed Radio Frequency Devices		
A1	1. 47 CFR Parts 11, 15 and 18 2. FCC MP-5.		
	3. ANSI C63.4-2003,		
A2	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
A3	1. 47 CFR Part 15,		
	ANSI C63.17-1998,		
	3. ANSI C63.4-2003,		
A4	1. 47 CFR Part 15,		
	ANSI C63.4-2003,		
FCC Scope	e B – Licensed Radio Service Equipment		
B1	1. 47 CFR Parts 2, 22, 24, 25, and 2	7	
	2. ANSI/TIA-603-C (2004)		
B2	1. 47 CFR Parts 2, 22, 74, 90, 95, at	id 97	
	2. ANSI/TIA-603-C (2004)		
B3	1. 47 CFR Parts 2, 80, and 87		
	2. ANSI/TIA-603-C (2004)		
B4	1. 47 CFR Parts 2, 21, 74, and 101		
	2. ANSI/TIA-603-C (2004)		

Country Specific Standards and Other	
ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR equivalents	SABS 1718-1; SANS 211/SABS CISPR 11; SANS 224/SABS CISPR 24; SANS 213/SABS CISPR 13; SANS 2200; SAS214-1/SABS CISPR 14-1; SANS 214-2/SABS CISPR 14-2; SANS 215/SABS CISPR 15; SANS 225/SABS CISPR 15; SANS 225/SABS CISPR 22
Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045
Singapore EMC Standards	IDA TS SRD; IDA TS EMC
Japanese VCCI Standards	VCCI V-3, VCCI V-4

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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 (Feb 1998)

Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry

Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for 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

Telecommunications Network -Part 1: General Part 3: DC, Low Frequency AC and Voice band

Physical/electrical characteristics of hierarchical Digital interfaces

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

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	Tid-	Francisco de la 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
HKTA 2028	Title Network connection specification for connection of	European standards (cont'd) TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
HK1A 2028	CPE to the PTNs in Hong Kong using digital leased	IBK 21. 1996	For pan-European approval for connection to the
	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased		telephony service) in which network addressing, if
	circuits at data rate of 2048 kbit/s	1	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
	Telecommunications Network (PTN) in Hong Kong using	IBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s 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	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment a
	Digital Leased Circuits below 64 kbit/s		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	N 7 1 1 1 1	Connection to Public Switched Telephone Network
HKTA 2033	Recommendation G.992.1 Network Connection Specification for Connection of	New Zealand standards PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
IIK1A 2033	Customer Premises Equipment (CPE) to Fixed	1 TC 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			ū
TBR 1: 1995	Attachment requirements for terminal equipment to	Singapore Standards	
	Be connected to circuit switched data networks and	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation		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	IDA TS DI CN 1	Subscriber Line Splitterless (G-Lite) Modems Type Approval Specification for Digital Interfaces based of
	Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based o hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 2
TBR 2: 1997	Attachment requirements for Data Terminal	1	kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT		Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling	1	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);	l	Primary Rate Access (PRA)
	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
TBR 4: 1995 + Amdt : 1997	connect to an ISDN using ISDN basic access Integrated Services Digital Network (ISDN);	Sth Africa -tdd-	Equipment to Public Switched Telephone Network (PSTN
IBR 4: 1995 + Alliul : 1997	Attachment requirements for terminal equipment to	South Africa standards TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipmen
	connect to an ISDN using ISDN primary rate access	1E-001 (non-voice only)	(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network		Network (PSTN)
15K 012: 1775 1 1 1 1 1 1 1 7 7 0	Provision (ONP) technical requirements; 2 048 kbit/s		Technolik (1911)
	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		
	requirements for terminal equipment interface		D 4 610
(AOLA C. (A) 1607 01) 207/06			
General test methods: Power input*, Permanence of marking*, Acce	Page 5 of 10 Page 5 of 10 essibility*, Permissibly limits*, Energy bazard Limited current* Capacitor Discharge (voltage)	(A2LA Cert. No. 1627.01) 3/27/06 Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5	Page 6 of 10 Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical
Product Safety General test methods: Power input*, Permanence of marking*, Accor measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage inig*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV. circuits*, TNV limits* limitation*, Ring signal*, Humidity conditior CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge /voltage ting*, Creepage / Clearance / Distance thru Insulation (excluding al Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1997 & AM 12 – 1997) (Including AM2 – 1997 & AM 12 – 1997)	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTly*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge/voltage inig*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm , ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humildty condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level*	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, -Handle loading*, Liquid veerflow*, Spillage*, Liquid leakage*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040, 10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
Product Safety General test methods: Power input*, Permanence of marking*, Acc measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity conditior CTly*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer short/soverloads*, Rain test*, We	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding IB Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publse*, Overotlage*, Acoustic sound pressure*, 130mm / 20mm cked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, , Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 - 1997 & AM 12 - 1997) EN 60335-1 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Molds Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, -Handle loading*, Liquid veerflow*, Spillage*, Liquid leakage*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Molds Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati	essibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040-10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* ilimitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Molds Component abnormal*, Electric strength*, In fame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati	essibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, apulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handie loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound leve! Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards	essibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 2001 IU. 60335-1 1908 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
Product Safety General test methods: Power inputs*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* ilmitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Ilame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance trun Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm / 20mm / 18 thandle loading*, Liquid verflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Title Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity conditior CTl)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 2000	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ting*, Creepage / Clearance / Distance thru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, 'Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <u>Title</u> Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 2001 IU. 60335-1 1908 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1:
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer sborts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 2000 EEC 60950 1999	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm / Landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Title Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment — Safety — Part1: General Requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* ilmitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Crepage / Clearance / Distance thu Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, 'Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, 'all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, ala*, 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	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Molds Component abnormal*, Electric strength*, Inflame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950 12001	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm / Landle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* imitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Rame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 IEC 60950 1999 EN 60950 2000 IEC 609501 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Crepage / Clearance / Distance thu Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, 'Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, 'all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, ala*, 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	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements
Product Safety General test methods: Power inputs*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* ilimitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C2.2.2 No. 60950-00 CSA C2.2.2 No. 60950-1 03	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance trun Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm / 20mm / 14mdle loading*, Liquid verflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety information for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General
Product Safety General test methods: Power inputs*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* ilimitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In Jame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards Specific Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C2.2.2 No. 60950-00 CSA C2.2.2 No. 60950-1 03	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge/voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding d Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, ', Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 'all capacitor short circuit abnormal*, Strain tabormal*, Multi- ng 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 requirements for electrical equipment for measurement,	Product Safety Standards IEC 60825-1 2000-5 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 61010 -1: 2004	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements - Safety - General Requirements - Safety - General Requirements - Safety - General Requirements - Safety - General Requirements - Safety - General Requirements - General Requirements - General Requirements -
Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* ilmitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 EEC 60950 1999 EN 60950 2000 EEC 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 UL 60950-1 2001 CSA C22.2 No. 60950-10 SEC 60101-1 1993 EC 61010-1 1993 EC 61010-1 1993	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, apulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, 'Handie loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ng device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title 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.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-3 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) IEC 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004	Title Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment — 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 Requirements Fafety — General Requirements Medical Electrical Equipment, Part 1: General Requirements
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Product Safety General test methods: Power input*, Permanence of marking*, Acci measurement*, SELV circuits*, TNV limits* limitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold s Component abnormal*, Electric strength*, In flame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W Functionality*, Protective impedance abnorm supply abnormal*, Cooling abnormal*, Heati Product Safety Standards UL 60950 2000 EEC 60950 1099 EN 60950 2000 EEC 60950 12001 UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-103 EEC 61010-1 1993 EN 61010-1 1993, 2001 EEC 61010-1 2001 UL 61010B-1 2003 CAN/CSA 1010-1 1999 (Including AM 2) IEC 66061-1 1995 EN 606061-1 1995 EN 606061-1 1995 (Including AM 2) UL 2601-1 1997 IEC 6066 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00	essibility*, Permissibly limits*, Energy hazard , Limited current*, Capacitor Discharge / voltage ining*, Creepage / Clearance / Distance tru Insulation (excluding al Bond/Earthing*, Ground continuity*, Temperature*, Stability*, tress*, Battery reverse current*, Ball pressure*, Leakage current*, publse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm , ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, , Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surges*, all*, Capacitor short circuit abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment Medical electrical eq	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-2 1995 IEC 60825-1 1997 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 UL 60601-1-1: 2000 EN 60601-1-1: 2000 EN 60601-1-1: 2001 UL 60065: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2001	Title Classification, requirements and user's guide. Safety of laser products - Part 2: Safety of optical communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use: Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety Part1: General Requirements Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Information Technology Equipment - Safety - General Requirements Medical Electrical Equipment - Part 1: General Requirements for Safety 1: Collateral Standard: Safety Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Safety Machinery - Electrical Equipment of Machines Safety Machinery - Electrical Equipment of Machines
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Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Equipment of Machines - Part 1: Specification for General Requirements Compliance Test Specification - Safet

Environmental Simulation			Note 1. For standards or methods listed on the scope of accreditation without a revision date, l.	aboratories are
Test Technology	Test Standard	Supporting Standards	expected to be competent in the use of the current version within one year of the date of public	
Accessibility*	IEC 60529	IP-0x thru IP-6x		
Acoustic Noise*	GR-63-CORE Sec 4.6	II -OX UIIU II -OX	standard test method or upon the date specified by the standard test method originator when the	e originator has
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	implementation authority. When a superseded standard or method is required for an accredited	test, the scope
		MFG & Hygroscopic Dust	will include the superseded date/version. For those that support the TCB/CB status of the organ	nization acting
Altitude	GR-63-CORE Sec 4.1.3	IEC (00(0 2 1		
Cold Start*	ETS 300 019	IEC 60068-2-1	as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal	
Drip	IEC 60529	IP-x1 & IP-x2	publication of changes for FCC and 30 days after IC website update. This note shall not be co	nstrued as an
Drops*	ETS 300 019	IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in a regulation	n or code (i.e.
	GR-63-CORE Sec 4.3		the legal requirement) which is adopted by the lab under their responsibility.	
Dust	IEC 60529	IP-5x & IP-6x	the legal requirement, which is adopted by the lab under their responsibility.	
Firearms Resistance Testing	GR-487			
Fire Resistance	ANSI.T1.319		* On-site test service is available for this technology, test, or method.	
	GR-63-CORE Sec 4.2	Fire & Needle Flame		
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &				
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1		
7 (-1)		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2	ILC 00000-2-30		
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IP-X3 & IP-X4 IEC 60068-2-1		
Storage (Temperature & Humidity)*	E18 300 019			
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-30		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1			
Vibration	ETS 300 019	IEC 60068-2-6		
		IEC 60068-2-27		
		IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
		Earthquake, Office &		
	GR-63-CORE Sec 4.4	Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
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