

# Test Report

Report No	EG1214-1
Client	MU Net, Inc. Josh Schadel
Address	442 Marrett Road Lexington, MA 02421
Phone Items tested	781-861-8644 WG-TP-MIM-IC
Equipment Type	Digital Transmission System
Equipment Code	DTS
Application Type	New Class II Permissive Change
Modular Approval	□ YES   ■ NO
FRN	0016087074
FCC ID	U2R-TPM0100
IC	6958A-TPM0100
Emissions Designator	F7D
Standards	FCC 15.247, and RSS-210
Test Dates	January 17 and February 8-9, 2007
Results	As detailed within this report
Prepared by	Josh LeBlanc – Test Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date Conditions of Issue	4/2/07 This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 22 of this report.

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

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Form Final Report REV 12-8-06 (DW)

#### Summary

This report is an application for a transmitter operating under 47 CFR 15.247 and RSS-210. The product covered by this report is the WG-TP-MIM-IC radio. The product was tested using the methods outlined in ANSI C63.4 (2003).

### Test Methodology

The EUT was maximized around three orthogonal axes. The EUT antenna is permanently soldered to the PCB and cannot be maximized separately. The EUT was tested on a non-conductive table 80cm above the ground plane. The EUT was powered with 120V, 60Hz. AC line conducted emissions were performed using a  $50\Omega/50\mu H$  LISN.

Date	Temperature	Humidity
1/17/07	23.6°C	1032.3mb
2/8/07	23.6°C	1001.6mb
2/9/07	24.1°C	1002mb

|--|

Measurement Distance:											
Frequency (MHz)	Distance (m)	Comments									
AC conducted 0.15 – 30MHz	-	Conducted									
Fundamental 2405.06, 2440.05, 2475.06MHz	3 m	Radiated									
Spurious & harmonics 30 –18000 MHz	3 m	Radiated									
Spurious & harmonics 18-26.5 GHz	1 m	Radiated									

Release Control Record Issue No. Reason for change

Original Release

Date Issued March 7, 2007



## **Product Tested - Configuration Documentation**

## **EUT Configuration**

Work Order: G1214 Company: MU Net, Inc.

Company Address: 442 Marrett Road, Suite 9

Lexington, MA 02421

Contact: Josh Schadel Person Present: Josh Schadel

MN SN

**EUT**: WG-TP-MIM-IC 1

**EUT Description:** Electric utility meter with wireless interface

Support Equipment: MN SN

none

EUT Cables:QtyShielded?LengthFerritesAC power1no1.5mnone

Unpopulated EUT Ports: Qty Reason

none

Software / Operating Mode Description:

The EUT is operating in TX and RX modes.

## **Compliance Statement**

RSS-GEN	RSS-210	47 CFR Part	Comments
		#	
5.3		15.15(b)	The product contains no user
			accessible controls that increase
			transmission power above allowable
			levels.
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(e)	The voltage was varied to ±15% of
			the rated voltage.
7.1.4 7.1.4		15.203	The device is professionally installed.
7.1.4		15.204	See attached documentation
			describing the antennas.
7.2.2		15.207	The EUT meets the AC power line
			conducted limits.
7.2.3	2.6	15.205	The fundamental is not in a restricted
		15.209	band and the spurious emissions in
			the restricted bands comply with the
			general emission limits of 15.209.
	A8.2	15.247(a)	The EUT is digitally modulated.
4.4.2	A8.2(1)	15.247(a)(2)	The minimum 6dB bandwidth is
	- ( )	- (-)(-)	greater than 500kHz.
	A8.4(4)	15.247(b)(3)	The EUT meets the conducted power
	- ( )	( ) ( )	limit at the fundamental.
	A8.6	15.247(b)(4)	Antenna gains are less than 6dBi.
	-	(-/( /	See antenna exhibits for details.
	A8.6	15.247(c)	Antenna gains are less than 6dBi.
			See antenna exhibits for details.
7.2.3	A8.5	15.247(d)	The EUT meets the spurious
		, ,	emissions requirements.
	A8.2(2)	15.247(e)	The PSD conducted to the antenna is
	` '	, ,	less than 8dBm.
4.4.1			Occupied Bandwidth
5.5		15.247(i)	See MPE report for details
		١ , ,	and the management of detailed

## Modifications Required for Compliance

In order to meet the radiated emissions limit at the upper bandedge while operating at the highest channel, the TX power setting at the highest channel was lowered to the 0dB power setting.

Radiated		ons rak	ЛС							Curtis-St		
Date:	, Inc				V	Vork Order:	G1214					
Engineer:	Evan Gould		- 1	EUT Desc:	WG-TP	-MIM-IC						
	Freque	ncy Range:	1-18GHz					I	Measuremer	nt Distance:	3 m	
Notes:	TX and RX m	nodes scanne	ed									
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
Vpk	4951.2	65.6	40.9	35.7	1.8	62.2				74.0	-11.8	Pass
Vav	4951.2	44.8	40.9	35.7	1.8	41.4				54.0	-12.6	Pass
Vpk	7426.9	67.1	40.8	38.7	2.1	67.1				74.0	-6.9	Pass
Vav	7426.9	45.2	40.8	38.7	2.1	45.2				54.0	-8.8	Pass
Hpk	12373.0	53.1	39.7	41.3	3.0	57.7				74.0	-16.3	Pass
Hav	12373.0	30.8	39.7	41.3	3.0	35.4				54.0	-18.6	Pass
High Band Edge	•											
Hpk	2483.5	80.5	42.7	30.0	1.2	69.0				74.0	-5.0	Pass
Hav	2483.5	66.8	42.7	30.0	1.2	55.3				54.0	1.3	Fail
owered Power	by 3dB (TX Po	wer Setting 0d	B)									
Hpk	2483.5	78.7	42.7	30.0	1.2	67.2				74.0	-6.8	Pass
Hav	2483.5	65.2	42.7	30.0	1.2	53.7				54.0	-0.3	Pass
owered Power	by 2dB more (7	TX Power Setti	ng -2dB)									
Hpk	2483.5	77.7	42.7	30.0	1.2	66.2				74.0	-7.8	Pass
Hav	2483.5	64.3	42.7	30.0	1.2	52.8				54.0	-1.2	Pass
RX MODE 1-18GHz												
Vav	4842.0	51.1	40.9	35.4	1.8	47.4				54.0	-6.6	Pass
Test Site:	"Δ"	Pre-Amn	Red-Green	Cable:	EMIR-H	IGH 20	Analyzer:	Orange		Antenna:	Orange Hor	'n

## Test Results

#### **AC Line Conducted Emissions**

FCC part 15.207 & RSS GEN 7.2.2

<b>AC Main</b>	s Cond	ucted E	missio	ons						C	urtis-Stra	us LLC	
Date:	05-Mar-07			company:	MU Net, Inc						Work Order:	G1214	
Engineer:	Evan Gould		E	UT Desc:	WG-TP-MIM-I	С					Test Site:	EMI1	
Notes:													
Measurement Device: Yellow LISN													
Range:	Range: 0.15-30MHz Spectrum Analyzer: Blue												
	Impedance								CISPR B	FCC/0	CISPR B		
	Q.P. Re	adings	Ave. Re	eadings	Factor							Overall	
Frequency	QP1	QP2	AV1	AV2		Limit	Margin	qp Limit	qp Margin	AVE Limit	AVE Margin	Result	
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)	
0.15	28.3	7.6	24.7	7.6	21.3			66.0	-16.4	56.0	-10.0	Pass	
10.80	8.0	8.0	9.1	9.1	20.3			60.0	-31.7	50.0	-20.6	Pass	
12.40	2.6	2.6	2.5	2.5	20.3			60.0	-37.1	50.0	-27.2	Pass	
12.90	3.8	3.8	6.7	7.6	20.3			60.0	-35.9	50.0	-22.1	Pass	
19.00	2.2	2.2	5.1	5.1	20.3			60.0	-37.5	50.0	-24.6	Pass	
22.80	2.1	2.1	4.1	4.1	20.3	20.3 60.0 -37.6 50.0 -25.6							
Table	Result:	Pass	by	-10.00	dB				Wo	orst Freq:	0.15	MHz	

## **Voltage Variation**

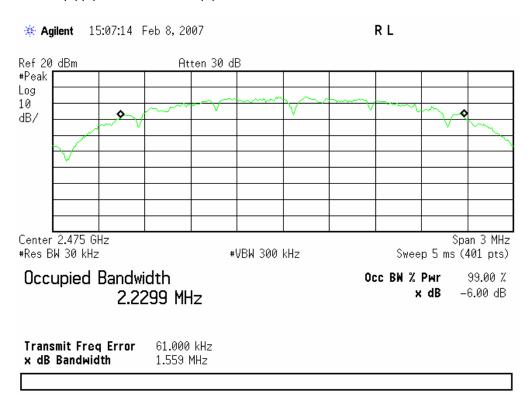
FCC part 15.31(e)

Voltage Var	Voltage Variations											
Work Order: G1214												
Date: 9-Feb-07												
Engineer:	Evan Gould											
EUT: WG-TP-MIM-IC												
	AC input		Fundamental									
	voltage		Reading (dBm)									
	163.20		17.0									
	244V		17.0									
	331.20		16.9									
Analyzer: Orange		Result:	Pass									



#### 6dB Bandwidth

FCC part 15.247(a)(2), RSS 210 A8.2(1) & RSS GEN 4.4.2



## **Spurious Radiated Emissions**

FCC part 15.205 & 15.209, RSS 210 2.6, RSS GEN 7.2.3

Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC	
Date:	08-Feb-07			Company:	MU Net	, Inc			Work Order: G1214				
Engineer:	Evan Gould		EUT Desc: WG-TP-MIM-IC										
	Freque	ncy Range:	30-1000M	Hz				ı	Measuremer	nt Distance:	3 m		
Notes: normal operation EUT Max Freq: 2.4GHz													
Antenna			Preamp	Antenna	Cable	Adjusted					FCC Class I	3	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
Vpk	146.8	31.0	22.3	13.1	0.3	22.1				43.5	-21.4	Pass	
noise floor	275.0	20.7	22.3	13.7	0.6	12.7				46.0	-33.3	Pass	
Hbb	332.6	32.2	22.3	14.7	0.8	25.4				46.0	-20.6	Pass	
noise floor	450.0	18.0	22.2	17.0	1.0	13.8				46.0	-32.2	Pass	
noise floor	674.0	17.5	22.0	20.4	1.6	17.5				46.0	-28.5	Pass	
noise floor	980.6	11.2	21.7	23.4	2.3	15.2				54.0	-38.8	Pass	
Table	Table Result: Pass by		by	-20.6	-20.6 dB				Wo	orst Freq:	332.6	MHz	
Test Site: "A" Pre-Amp: Blue			Blue	Cable:	Cable: EMIR-HIGH-09 Analyze				Analyzer: White Antenna: Red-Black				

Radiated	l Emissi	ons Tab	ole								Curtis-St	raus LLC	
Date:	17-Jan-07			Company:	MU Net	, Inc		Work Order: G1214					
Engineer:	Evan Gould		1	EUT Desc:	WG-TP	-MIM-IC							
	Freque	ncy Range:	1-18GHz					ı	Measuremer	nt Distance:	3 m		
Notes:	TX and RX m	odes scanne	ed										
Antenna			Preamp	Antenna	Cable	Adjusted				ı	CC Class I	3	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)	
Vpk	4951.2	65.6	40.9	35.7	1.8	62.2				74.0	-11.8	Pass	
Vav	4951.2	44.8	40.9	35.7	1.8	41.4				54.0	-12.6	Pass	
Vpk	7426.9	67.1	40.8	38.7	2.1	67.1				74.0	-6.9	Pass	
Vav	7426.9	45.2	40.8	38.7	2.1	45.2				54.0	-8.8	Pass	
Hpk	12373.0	53.1	39.7	41.3	3.0	57.7				74.0	-16.3	Pass	
Hav	12373.0	30.8	39.7	41.3	3.0	35.4				54.0	-18.6	Pass	
owered Power	by 3dB (TX Pov	ver Setting 0d	B)										
Hpk	2483.5	78.7	42.7	30.0	1.2	67.2				74.0	-6.8	Pass	
Hav	2483.5	65.2	42.7	30.0	1.2	53.7				54.0	-0.3	Pass	
X MODE 1-180	GHz												
Vav	4842.0	51.1	40.9	35.4	1.8	47.4				54.0	-6.6	Pass	
Table Result: Pass by				-0.3	-0.3 dB					orst Freq:	2483.5	MHz	
Test Site:	Test Site: "A" Pre-Amp: Red-Greer C					Cable: EMIR-HIGH 20 Analyzer: Orange				Antenna: Orange Horn			

Radiated	Radiated Emissions Table Curtis-Straus LLC											
Date:	17-Jan-07		(	Company:				V	ork Order:	G1214		
Engineer:	Engineer: Evan Gould			EUT Desc: WG-TP-MIM-IC								
	Frequency Range: 18-25GHz Measurement Distance: 1 m											
Notes:	Notes: TX and RX modes scanned											
Antenna			Preamp	Antenna	Cable	Adjusted				FCC Class B		
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail)
Hpk	19400.0	36.4	19.9	40.3	3.7	60.5				83.5	-23.0	Pass
Hav	19400.0	25.1	19.9	40.3	3.7	49.2				63.5	-14.3	Pass
Table	Table Result: Pass by		-14.3	-14.3 dB			<b>Worst Freq:</b> 19400.0 MHz			MHz		
Test Site: "A" Pre-Amp: 18-26.5GH			Cable:	Cable: EMIR-HIGH 20 Analy			Analyzer: Orange Antenna: 18-26.5GHz Ho			: Horn		



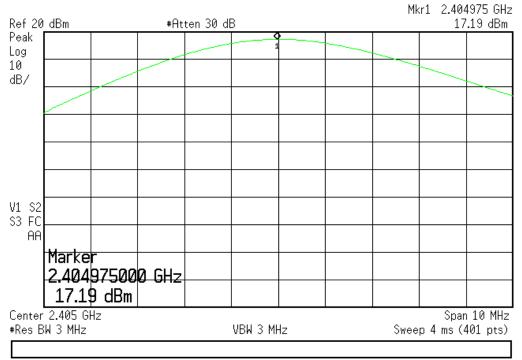
#### **Conducted POP**

FCC part 15.247(b)(3) & RSS 210 A8.4(4)

Peak Output Power Curtis-Straus LLC								
·			Compai Mu Net, Inc.			Work Order:	G1214	
Engineer:	Engineer: Josh LeBlanc EUT De WG-TP-MIM-IC							
			Cable	Adjusted		FCC 15.247	•	
Channel	Frequency	Reading	Factor	Reading	Limit	Margin	Result	
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(Pass/Fail)	
CH 11	2405.0	17.2	1.2	18.4	30.0	-11.6	Pass	
CH 18	2440.0	17.2	1.2	18.4	30.0	-11.6	Pass	
CH 25	2475.0	15.5	1.2	16.7	30.0	-13.3	Pass	
Test Site:	EMI1	Cable:	EMIR-H	IGH-20	Analyzer	Brown		

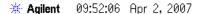
#### Ch.11 POP

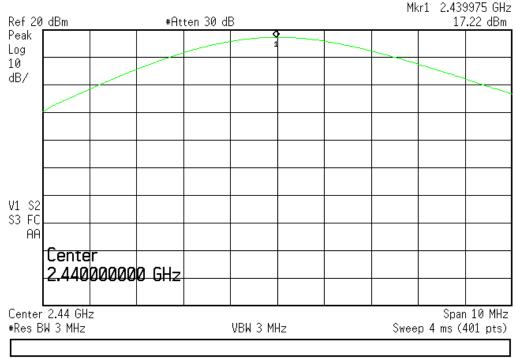
\* Agilent 09:50:22 Apr 2, 2007



Ch.18 POP

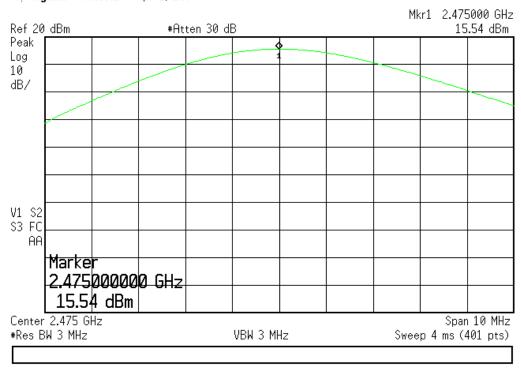






#### Ch.25 POP

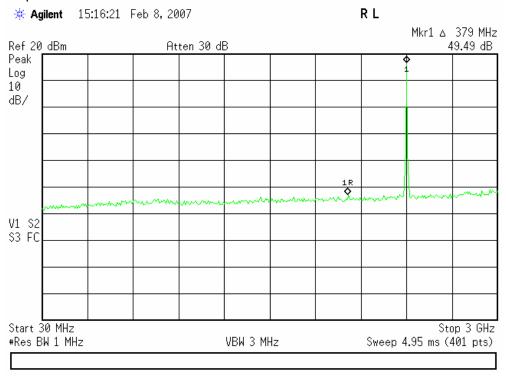
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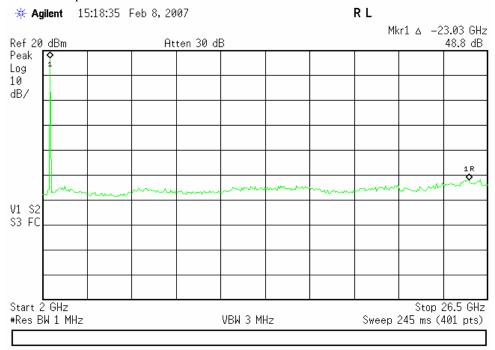
### **Spurious Conducted Emissions**

FCC part 15.247(d), RSS 210 A8.5 & RSS GEN 7.2.3

Conducted Spurious 30-3000MHz TX Mode

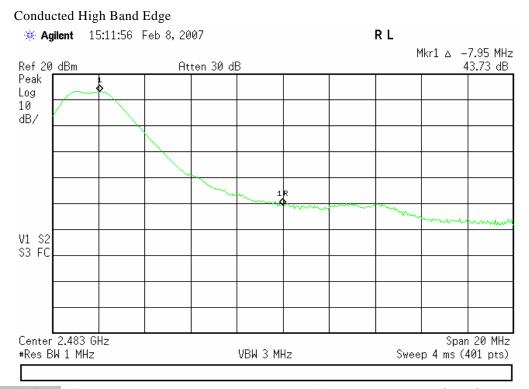


Conducted Spurious 2-26GHz TX Mode

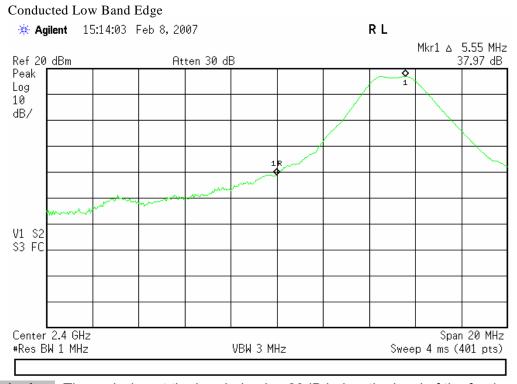


**Conclusion**: All harmonics and spurs are >20dB below the fundamental.





**Conclusion**: The emission at the bandedge is >20dB below the level of the fundamental

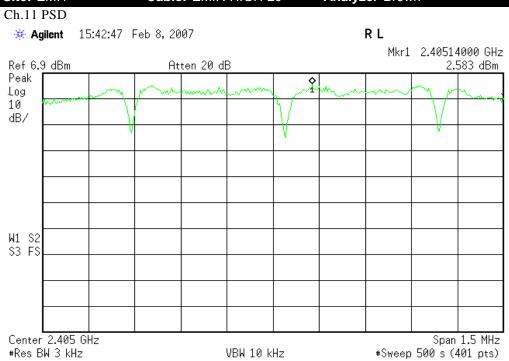


**Conclusion**: The emission at the bandedge is >20dB below the level of the fundamental

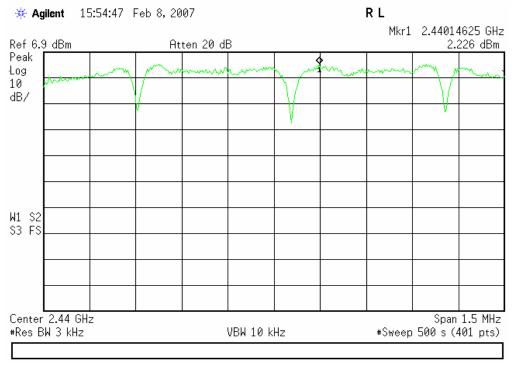
## **Power Spectral Density**

FCC part 15.247(e) & RSS 210 A8.2(2)

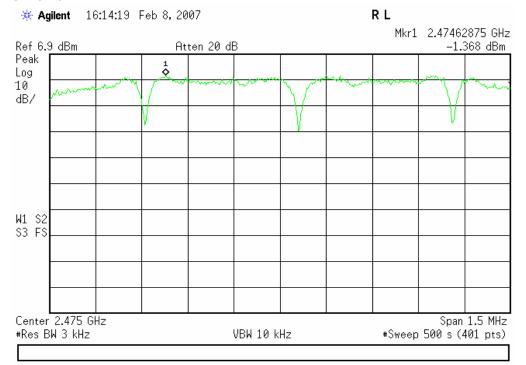
Power Spectral Density Curtis-Straus LLC								
Date: 08-Feb-07 ComparMu Net, Inc. Work Order: G1214 Engineer: Evan Gould EUT De WG-TP-MIM-IC						G1214		
			Cable	Adjusted		FCC 15.247	,	
Channel	Frequency	Reading	Factor	Reading	Limit	Margin	Result	
	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(Pass/Fail)	
CH 11	2405.0	2.6	1.2	3.8	8.0	-4.2	Pass	
CH 18	2440.0	2.2	1.2	3.4	8.0	-4.6	Pass	
CH 25	2475.0	-1.4	1.2	-0.2	8.0	-8.2	Pass	
Test Site:	EMI1	Cable:	EMIR-H	IGH-20	Analyzer	Brown		





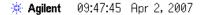


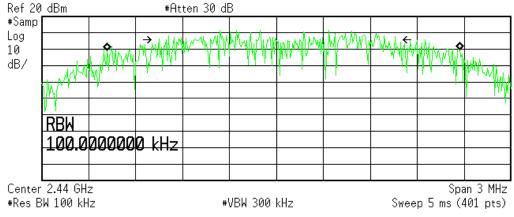
#### Ch.25 PSD



## **Occupied Bandwidth**

RSS GEN 4.4.1





Occupied Bandwidth 2.2501 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB

Transmit Freq Error 45.744 kHz Occupied Bandwidth 1.512 MHz\*

## Test Equipment Used

									REV. 01-FEB	-2007	
SPECTRUM ANALYZEI RECEIVERS	RS/	Ran	GE	MN	MFR	(	SN	Asse	т Сат	г (	CALIBRATION DUE
WHITE		9kHz-2	2GHz	8593E	Agilent	3547	U01252	0002	2 I		06-OCT-2007
BLUE		9kHz-1.	8GHz	8591E	Agilent	3223	A00227	0007	0 I		18-DEC-2007
ORANGE		9kHz-26	.5GHz	E4407B	Agilent	t US39	440975	0039	4 I		18-DEC-2007
LISNS/MEASUREMENT	<del></del>	RANGE		MN		MFR	S	N	ASSET	Сат	CALIBRATION DUE
YELLOW		10кHz-30M	Hz	8012-50-R-24-B	NC	SOLAR	041	1658	1080	II	05-MAY-2007
OPEN AREA TEST S	ITES (OA	ATS)		FCC CODE		IC CODE	V	CCI COD	е Сат	C	CALIBRATION DUE
SITE A				93448		IC 2762-A		R-903	II		13-AUG-2007
CONDUCTED TEST SITES	(MAINS	/TELCO)		FCC CODE		IC CODE	\	CCI Co	DE	Сат	CALIBRATION DUE
EMI 1				93448		N/A	C-	1801, T-	268	III	NA
HARMONIC & FLICKER AN	ALYZER	MN		MFR			SN	-	ASSET	Сат	CALIBRATION DUE
HFTS		HP6842	A	HP		3531	A-00169	C	0738	II	30-DEC-2007
PREAMPS / ATTENUATORS FILTERS	/ R	ANGE		MN		MFR		SN	Asse	т Сат	Calibration Due
BLUE	0.01-2	2000MHz		ZFL-1000-LN		C-S		N/A	0075	9 II	20-JUL-2007
RED-GREEN	1-2	20GHz	PM2	-38-218-4R5-17-15	-SFF	C-S				II	14-AUG-2007
HF (YELLOW)	18-2	6.5GHz	AF	S4-18002650-60-8	P-4	C-S	4	67559	0075	8 II	23-AUG-2007
ANTENNAS	RANGE	<u> </u>	MN	MFR		SN	ASSET	Сат		CALIBE	RATION DUE
RED-BLACK BILOG	30-2000N		JB1	SUNOL	٨٢	91604-2	01106	J.			CT-2008
ORANGE HORN	1-18GH		3115	EMCO		04-6123	00390	i			UN-2007
OIVANGE HOIM	1-10011	-	0110	LIVICO	00	,0-7-0 1ZJ	00000			00-0	514 2001

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

#### **FCC Requirements**

## **Required Equipment Authorization for Device Type**

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

#### FCC Required labeling for Verified Devices 47 CFR Part 15.19

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

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

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

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

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

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

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

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

Trade Name Model Number

Tested to Comply with FCC Standards

FOR HOME OR OFFICE USE

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

Trade Name Model Number

Assembled From
Tested Components
(Complete System Not Tested)

FOR HOME OR OFFICE USE

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

### FCC Required Instruction Manual Inserts CFR 47 Part 15.21 and 15.105

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

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

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

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

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

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

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

Our facility codes can be found in the Test Equipment Used Section starting on page 16.



#### **Canadian Requirements**

Digital products and ISM products must be labeled by a notice in French and English. The notice **must** take the form of a label on the product. As an alternative, where it is not feasible to label the product due to product size or other consideration, the notice must be reproduced in the manual. Note that considerations such as product appearance are not considered to meet the feasibility test. The notice must state that the product is in compliance with Canadian Interference-Causing Equipment regulations and may be in your own words. A suggested text is:

#### For ITE products:

This Class A or B digital apparatus complies with Canadian ICES-003. Cet appareil numerique de la classe A or B est conforme a la norme NMB-003 du Canada.

#### For ISM products:

This ISM apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Ce generateur de frequence radio ISM respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

Although the ITE limits are different from the FCC in some minor ways, equipment which complies with the FCC limits is considered by Industry Canada to be compliant with the Canadian rules. For ITE, equipment in compliance with either FCC Part 15 or CISPR 22 is considered to meet ICES-003. ISM equipment limits are the same as the EU EN55011 emission limits. Reports must be kept on file for review by the appropriate Canadian Minister for a period of five years.

Our facility codes can be found in the Test Equipment Used Section starting on page 16.



#### **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<sup>1</sup> 527 Great Road Littleton, MA 01460 Barry Quinlan Phone: 978-486-8880

Valid until: July 31, 2007

Certificate Number: 1627.01

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

#### Electromagnetic Compatibility (EMC)

Electromagnetic Companionity (EMC)

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

Test Type	Test Method(s)			
Emissions				
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18; C63.4; CISPR 22; EN55022; 8ABS CISPR 22; A3/NZS CISPR 22; A3/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82; September 29, 2005); CISPR 11; EN 55011; SABS CISPR 11; A5/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS1303; CISPR 13; EN 55013; SABS CISPR 13; A5/NZS CISPR 13; AS/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; A5/NZS CISPR 14; A5/NZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE; CSA C108.8-M1983;			
Harmonics	EN 61000-3-2; AS/NZS 61000.3.2			
Flicker	EN 61000-3-3; AS/NZS 61000.3.3			

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

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

Family Product or Industry Specific Specifications including emissions and/or immunity	GR-1089-CORE; GR-78-CORE (ESD) ENS0081-1; ENS0082-1; ENS0082-1; 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 55013-2; EN 61326; EN 61547; EN 63103-4; EN 50083-2; EN 66001-2-2; EN 60601-2-38; EN 60601-2-24; EN 60601-2-38; EN 6601-2-47; IEC 1800-3; EN 61800-3; EN 55020; CISPR 20: EN 6055 Part 2:
	61800-5; EN 3202, CLSF 420, EN 603-5 741 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	
EU R&TTE Radio Standards;	EN 300 220-1; EN 300 220-3; EN 300 330-1; EN 300 330-2; EN 300 440-1; EN 300 440-2; EN 300 328; EN 300 385; EN 301 893
EU R&TTE EMC Standards	EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-17
Canada Radio Standards	RSS-102; RSS-117; RSS-118; RSS-119; RSS-123; RSS-125; RSS-128; RSS-129; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-136; RSS-137; RSS-138; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-187; RSS-188; RSS-191; RSS-192; RSS-193; RSS-195; RSS-210; RSS-212; RSS-213; RSS-215; RSS-243; RSS-GEN; RSS-310; GL-36;
Australia/New Zealand Radio Standards	AS/NZS 4268; AS/NZS 4771; RFS29; Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques); Radiocommunications (Spread Spectrum Devices); Radiocommunications (Short Range Devices); Radiocommunications (Low Interference Potential Devices);

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Other Rad	dio Standards	RTTE 01 (DGT-Taiwan);	
FCC Star	ndards and Test methods Support	CB Status	
FCC Scop	oe A – Unlicensed Radio Frequency L	Devices	
A1	1. 47 CFR Parts 11, 15 and 13	8	
	2. FCC MP-5,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
A2	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
A3	1. 47 CFR Part 15,		
	2. ANSI C63.17-1998,		
	3. ANSI C63.4-2003,		
A4	1. 47 CFR Part 15,		
	<ol><li>ANSI C63.4-2003,</li></ol>		
FCC Scop	oe B – Licensed Radio Service Equips	nent	
B1	1. 47 CFR Parts 2, 22, 24, 25	, and 27	
	2. ANSI/TIA-603-C (2004)		
B2	1. 47 CFR Parts 2, 22, 74, 90	, 95, and 97	
	2. ANSI/TIA-603-C (2004)		
B3	1. 47 CFR Parts 2, 80, and 87	,	
	2. ANSI/TIA-603-C (2004)		
B4	1. 47 CFR Parts 2, 21, 74, and	d 101	
	2. ANSI/TIA-603-C (2004)		

ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR	SABS 1718-1; SANS 211/SABS CISPR 11;
equivalents	SANS 224/SABS CISPR 24;
-	SANS 213/SABS CISPR 13;
	SANS 2200; SANS214-1/SABS CISPR 14-1;
	SANS214-2/SABS CISPR 14-2;
	SANS 215/SABS CISPR 15;
	SANS 222/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	VCCLV-3, VCCLV-4

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

n Standards	Tit

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

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

Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network Requirements for Customer Equipment for AS/ACIF S002-2001 AS/ACIF S016-2001 Requirements for Customer Equipment for connection to hierarchical digital interfaces Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a AS/ACIE S031-2001 AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001

Telecommunications Network -Part 1: General Part 2: Broadband

Part 3: DC, Low Frequency AC and Voice band International standards ITU-T G.703 Physical/electrical characteristics of hierarchical

Digital interfaces

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

(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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Felecom Standards	Title Network connection specification for connection of	European standards (cont'd)	Terminal Equipment (TE): Attackst
HKTA 2028	Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements For pan-European approval for connection to the
	circuits at data rate of 1544 kbit/s		Analogue Public Switched Telephone Networks
HKTA 2029	Network connection specification for connection of		(PSTNs) of TE (excluding TE supporting the voice
	CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s		telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Network Connection Specification for Connection of		(DTMF) signaling
	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using		Digital Unstructured and structured leased lines
HKTA 2031	Digital Leased Circuits at nx64 kbit/s Network Connection Specification for Connection of		(D34U and D34S); Attachment requirements for Terminal equipment interface
AK 1 A 2031	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	reminar equipment interrace
	Telecommunications Network (PTN) in Hong Kong using	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment
	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 Telecommunications Networks in Hong Kong using	IS6100 PSTN01 (non-voice only)	ISDN Terminal Equipment Technical Specifications Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T	rs rvor (non-voice only)	Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	Connection to Fubile Difficultar Folephone Petrolik
HKTA 2033	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to Fixed Telecommunications Networks in Hong Kong using	PTC 217	Analogue Lines 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			5
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 X.21 interface, or at an interface physically,	IDA TS ADSL 2	Subscriber Line (Full-rate ADSL) Modems Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT	1	Subscriber Line Splitterless (G-Lite) Modems
	Recommendation X.21 but operating at any data	IDA TS DLCN 1	Type Approval Specification for Digital Interfaces based of
TDD 2 4007	signaling rate up to, and including, 1 984 kbit/s	1	hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139
ГВR 2: 1997	Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	kbit/s Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT	ו אוספו פו עמו	Type Approval Specification for connection of Terminal 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
TDD 2 1005 . A . 1: 1005	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); Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Primary Rate Access (PRA)  Type Approval Specification for connection of Terminal
	Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access	IDA 13 1313 (HOH-VOICE ONLY)	Type Approval Specification for connection of Terminal Equipment to Public Switched Telephone Network (PSTN
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	1- 1- Indiana - I am a manage receptione rection (1911
	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipme
	connect to an ISDN using ISDN primary rate access		(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s		Network (PSTN)
	digital unstructured leased line (D2048U) Attachment		
	requirements for terminal equipment		
ΓBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s		
	digital structured leased lines (D2048S); Attachment		
	requirements for terminal equipment interface		P 4 610
(A2LA Cert. No. 1627.01) 3/27/06  Product Safety General test methods: Power input*, Permanence of marking*, Acce	Page 5 of 10 ssibility*, Permissibly limits*, Energy hazard	(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 ieneral test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition TTI*, Limited power measurement*, Grounc Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im-	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, publes*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm	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)	<u>Title</u> Classification, requirements and user's guide.
Product Safety General test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition CTIP*, Limited power measurement*, Grounc Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer short/Soverloads*, Rain test*, We	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousic 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-rayy*, Voltage surge*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements
Product Safety General test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition Tlf)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc forque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W "unctionality*, Protective impedance abnorm	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearnace/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi-	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040, 10 IEC 60335-1 1995 (including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	Title Classification, requirements and user's guide. Safety of laser products — Part 2: Safety of optical communication systems Safety of laser products — Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General
Product Safety ieneral test methods: ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition Tlf)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W "unctionality*, Protective impedance abnorm	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Crepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acousic 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-rayy*, Voltage surge*,	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 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 ineral test methods: ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, mitation*, Rins gianal*, Humidity condition TID*, Limited power measurement*, Grounc Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc forque*, Insulation resistance*, Sound level* ransformer shorts/overloads*, Rain test*, W 'unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearnace/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, 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	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 Science as the state of marking*, Acce neasurement*, SELV circuits*, TNV limits*, mitation*, Ring signal*, Humidity condition TI)*, Limited power measurement*, Grounc typlied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc Corque*, Insulation resistance*, Sound level* 'ransformer shorts/overloads*, Rain test*, W 'unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin 'roduct Safety Standards.	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearance/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm/20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all noun*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg 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) UL 60335-1 2001 UL 60335-1 1998 CANCSA 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 requirements
Product Safety ieneral test methods: ower input*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition Tlb*, Limited power measurement*, Grounc Applied force*, Steel sphere impact*, Mold st component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc orque*, Insulation resistance*, Sound level*, 'ransformer shorts/overloads*, Rain test*, W 'unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin 'roduct Safety Standards.  **Product Safety Standards	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm '20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug 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 ieneral test methods: Ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition TTl*, Limited power measurement*, Grounc Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Int lame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Transformer shorts/overloads*, Rain test*, W "unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards J. 60950 2000	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / Omm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all*, Capacitor short circuit abnormal*, Output abnormal*, Multi- g device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* <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) UL 60335-1 2001 UL 60335-1 1998 CANCSA 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 requirements Safety information technology equipment Information Technology Equipment - Safety - Part1:
Product Safety ieneral test methods: 'ower inputs', Permanence of markings', Acce neasurements', SELV circuitss', TNV limits's imitations', Ring signals', Humidity condition 'Th's', Limited power measurements', Groun Applied force's, Steel sphere impacts', Mold st Component abnormals', Electric strengths', Im lames', Needle flames', Hot flaming oils', Loc 'forques', Insulation resistances', Sound levels' Transformer shorts/overloadss', Rain tests', W 'quactionality's, Protective impedance abnorm upply abnormals', Cooling abnormals', Heatin 'Product Safety Standards  Specific Product Safety Standards II. 60950 2000 EC 60950 1999	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm '20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug 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 ineneral test methods: ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, mitation*, Ring signal*, Humidity condition TI)*, Limited power measurement*, Groun Applied force*, Sueel sphere impact*, Mold si component abnormal*, Electric strength*, Im ame*, Needle flame*, Hot flaming oil*, Loc orque*, Insulation resistance*, Sound level* ransformer shorts/overloads*, Rain test*, W unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin troduct Safety Standards IL 60950 2000 EC 60950 1999 IN 60950 2000 EC 60950 12001	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearnace/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, Ladiage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950-2000 EN 60950-1: 2001 AS/NZS 60950-1: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use: part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements
Product Safety ieneral test methods: ower inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, imitation*, Ring signal*, Humidity condition TI)*, Limited power measurement*, Grounc typplied force*, Steel sphere impact*, Mold st Joropnoent abnormal*, Electric strength*, Im Jame*, Needle flame*, Hot flaming oil*, Loc orque*, Insulation resistance*, Sound levels 'ransformer shorts/overloads*, Rain test*, W 'unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin broduct Safety Standards Leopsol 2000 EC 60950 1999 EN 60950 2000 EC 60950 1999 EN 60950 2000 EC 60950-1 2001 L. 60950-1 2003	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thu Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  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 60825-4 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 Safety information for thouse of the safety – General requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and
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Product Safety ineral test methods: ower input*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, mitation*, Ring signal*, Humidity condition Tl)*, Limited power measurement*, Grounc upplied force*, Steel sphere impact*, Mold st iomponent abnormal*, Electric strength*, Im name*, Needle flame*, Hot flaming oil*, Loc orque*, Insulation resistance*, Sound level* ransformer shorts/overloads*, Rain test*, W unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin roduct Safety Standards IL 60950 2000 EC 60950 1999 IN 60950 2000 EC 60950-1 2001 IL 60950-1 2001 IL 60950-1 2001 IL 60950-1 2003 SA C C2.2, No. 60950-00 SA C 22.2, No. 60950-1 03	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, all*, Capacitor short circuit abnormal*, Multi- ug device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-4 1997-11 21 CFR 1040.10 IEC 60325-1 1995 (Including AMZ – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2002 EN 61010-1: 2001  AS/NZS 60950-2000 EN 60950-1: 2001 AS/NZS 60950-1: 2003	Title Classification, requirements and user's guide. Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements  Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: Genera requirements Safety information technology Equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General
Product Safety ineral test methods: ower input*, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, mitation*, Ring signal*, Humidity condition Tl)*, Limited power measurement*, Grounc upplied force*, Steel sphere impact*, Mold st iomponent abnormal*, Electric strength*, Im name*, Needle flame*, Hot flaming oil*, Loc orque*, Insulation resistance*, Sound level* ransformer shorts/overloads*, Rain test*, W unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin roduct Safety Standards IL 60950 2000 EC 60950 1999 IN 60950 2000 EC 60950-1 2001 IL 60950-1 2001 IL 60950-1 2001 IL 60950-1 2003 SA C C2.2, No. 60950-00 SA C 22.2, No. 60950-1 03	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge / voltage ing*, Creepage / Clearance / Distance thu Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Output abnormal*, Multi- gg device abnormal*, Interlock abnormal*, Rigidity*, Cleaning*  Title  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 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: Genera requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: Genera requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements for Safety
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Product Safety General test methods: Power inputs, Permanence of marking*, Acce neasurement*, SELV circuits*, TNV limits*, minitation*, Ring signal*, Humidity condition CTI)*, Limited power measurement*, Groun Applied force*, Steel sphere impact*, Mold st Component abnormal*, Electric strength*, Im lame*, Needle flame*, Hot flaming oil*, Loc Torque*, Insulation resistance*, Sound level* Fransformer shorts/overloads*, Rain test*, W. "unctionality*, Protective impedance abnorm upply abnormal*, Cooling abnormal*, Heatin Product Safety Standards Specific Product Safety Standards JL 60950-1090 EC 60950-1900 EC 60950-1900 EC 60950-1000 EC 60950-1 2001 JL 60950-1 2003 ESA C22.2 No. 60950-103 EC 61010-1 1993 EN 61010-1 1993, 2001 EC 61010-1 1993 EN 61010-1 1999 (Including AM 2) EC 60601-1 1995 EN 60601-1 1995 (Including AM 2) JL 2601-1 1997 EC 60065 1998, 2000 ANSI/UL 6500: 1998 EANCSA 60065-00 AS/NZS 60065-000 Canadian C22.2 No. 1-94 (1-98) 1994, 1998 EN 60005 1994 EC 60825 1990	ssibility*, Permissibly limits*, Energy hazard Limited current*, Capacitor Discharge/voltage ing*, Creepage/Clearnace/Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, pulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ked rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, all mount*, Laser radiation (excluding x-ray)*, Voltage surge*, al*, Capacitor short circuit abnormal*, Rigidity*, Cleaning*  Title  Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment.  Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements.  Electrical equipment for laboratory use Part 1: General requirements.  Medical electrical equipment. Part 1: General requirements for safety. Audio, video and similar electronic apparatus — Safety requirements  Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard — Approval and test Specification — Mains operated electronic and related Equipment for operated electronic and related apparatus for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide	Product Safety Standards IEC 60825-1 2001 IEC 60825-2 2000-5 IEC 60825-3 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 AS/NZS 60950: 12 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000  EN 60065: 2003 CSA 60065: 2003 IEC 60065: 2003 IEC 60065: 2002 EN 60065: 2002 EN 60065: 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 Safety of household and similar electrical appliances Part 1: General requirements Safety information technology equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment – Safety – Part1: General Requirements Information Technology Equipment – Safety – General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety – Part 1: General Requirements for Safety – Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements for Safety – Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Audio, Video and Similar Electronic Apparatus – Safety Requirements Safety of Machinery – Electrical Equipment of Machines – Part 1: Specification for General Requirements Compliance Test Specification – Safety and Electrical Protection Requirements for Subscriber Equipment
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Environmental Simulation				
Environmental Simulation			Note 1. For standards or methods listed on the scope of accreditation without a revision date,	laboratories are
Test Technology	Test Standard	Supporting Standards	expected to be competent in the use of the current version within one year of the date of public	
Accessibility*	IEC 60529	IP-0x thru IP-6x		
Acoustic Noise*	GR-63-CORE Sec 4.6	11 -0x till til -0x	standard test method or upon the date specified by the standard test method originator when the	
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	implementation authority. When a superseded standard or method is required for an accredite	d test, the scope
Altitude	GR-63-CORE Sec 4.1.3	WI'G & Hygioscopic Dust	will include the superseded date/version. For those that support the TCB/CB status of the orga	anization acting
Cold Start*	ETS 300 019	IEC 60068-2-1	as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal	
Drip	IEC 60529	IP-x1 & IP-x2		
	ETS 300 019	IEC 60068-2-32	publication of changes for FCC and 30 days after IC website update. This note shall not be co	
Drops*		IEC 60068-2-32	Accreditation Body implication to adopt a more current standard than is required in a regulati	on or code (i.e.
	GR-63-CORE Sec 4.3		the legal requirement) which is adopted by the lab under their responsibility.	
Dust	IEC 60529	IP-5x & IP-6x		
Firearms Resistance Testing	GR-487		* On-site test service is available for this technology, test, or method.	
Fire Resistance	ANSI.T1.319		* On-site test service is available for this technology, test, or method.	
	GR-63-CORE Sec 4.2	Fire & Needle Flame		
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature &				
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2			
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1		
Storage (reinperature & framidity)	L15 300 017	IEC 60068-2-1		
		IEC 60068-2-2 IEC 60068-2-14		
		IEC 60068-2-14 IEC 60068-2-30		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1	IEC 00008-2-30		
Vibration	ETS 300 019	IEC 60068-2-6		
vibration	E1S 300 019			
		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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