Curtis-Straus Test Report

Report No	EF0739-1
Client	Dresser Inc.
Phone Fax	203-385-0331 203-385-0347
FRN	0014097331
Models FCC ID IC	XW-1 TO3-XW1-ASHWF 6153A-XW1WPF
Equipment Type Equipment Code Emissions Designator	Low Power Communication Device Transmitter DXX K1D
Tested To	FCC 15.249 and RSS 210 Issue 6
Results	As detailed within this report
Prepared by	M. Hussain Mairaj Hussain – Test Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date	10/12/05
Conditions of issue	This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this

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

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Summary

This report is an application for certification of a transmitter operating under 47 CFR 15.249 of the FCC rules and RSS-210 Issue 6 provided for operation in the frequency band of 902-928MHz. The product covered by this report is the XW-1.

Test Methodology

All testing was performed according to the procedures specified in ANSI C63.4 (2003). The product was tested with modulation on and peak readings were compared against the QP limit (below 1000MHz) presented in section CFR 15.249.

	Frequency range investigated:	30MHz – 10GHz
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Measurement Distance:		
Frequency (MHz)	Distance (m)	Comments
Fundamental (916.6MHz)	3 m	Radiated
30MHz – 10GHz except 902-928MHz	3m	Radiated Spurious
band		Measurements

The EUT was fully maximized. The EUT antenna can not be maximized separately. EUT was tested in 3 orthogonal axis in order to maximize the emissions. The product only has one channel of operation and was evaluated at that channel. Fresh battery was used during the testing.

The product is DC powered and derives its power from a battery.

All readings are peak unless otherwise noted.

Instrument Bandwidth Settings:

Fundamental Reading:

RBW 120 KHz VBW 1 MHz

Spurious Readings (below 30 MHz- 1000 MHz):

RBW 120 KHz VBW 300 KHz

Spurious Readings (above 1000 MHz):

RBW 1000 MHz VBW 3 MHz

EUT Configuration

EUT Configuration

Work Order: F0739 Company: Dresser Inc

Company Address: 250 East Main Street

Stratford, CT 06614

Contact: Dan Horne **Person Present:** Dan Horne

MN SN

EUT: XW-1 Beta 0034

EUT Description: Pressure gauge **EUT Max Frequency:** 916.38MHz

Support Equipment:MNSNDell laptopPP01L-GatewayGW5209-ASM-

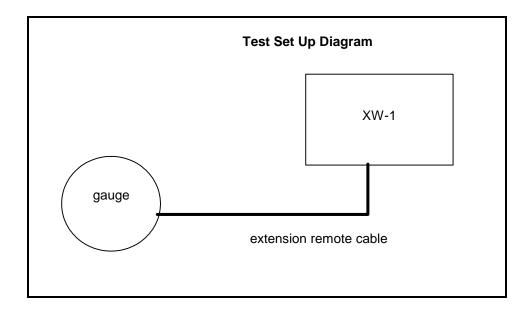
EUT Cables:QtyShielded?LengthFerritesExtension/Remote cable1No3 ftNone

Unpopulated EUT Ports: Qty Reason

None

Software / Operating Mode Description:

Contineous Tx mode and normal operation (Tx and Rx every secod) reading pressure and transmitting to gatweay and reeceiving pooloing from gateway.



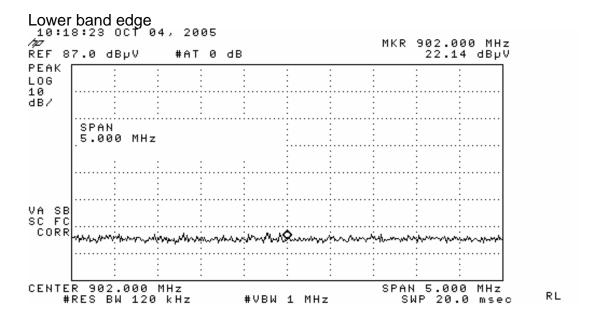
Statement of Conformity

The XW-1 has been found to conform with the following parts of the 47 CFR as detailed below:

RSS	RSS-210	47 CFR	Comments
Gen		Part #	
5.3	5.7	15.15(b)	The product contains no user accessible
			controls that increase transmission power
			above allowable levels.
5.2	5.10	2.925,	The label is shown in the label exhibit. The
		15.19	label is permanently attached.
7.1.5	5.11	15.21	Information to the user is shown in the
			instruction manual exhibit.
		15.27	No special accessories are required for
4.5		1=01()	compliance.
4.5		15.31(e)	Voltage variation test was not performed on
			the product because it derives power from a
			battery.
7.1.4	5.5	15.203	The device utilizes antenna specific to the
			product. Antenna is permanently attached
			to PCB.
4.6	A2.9	15.205	The fundamental is not in a Restricted band and
4.7		15.209	the spurious comply with the general emission
			limits of 15.209.
7.2.2		15.207	Unit is DC powered and derives its power
			from a battery, therefore AC line conducted
			emissions testing was not done.
	A2.9	15.249	The EUT meets the field strength limit of
		(a)	50mV/m (93.97dBµV/m) at the
			fundamental.
	A2.9	15.249	Spurious emissions meet the general
		(d)	radiated emissions limits of section 15.209.
	A2.9	15.249	Spurious emissions found above 1GHz
		(e)	meet the FCC class B limits.
4.4.1	5.9.1		99% emissions bandwidth plot is provided.

Test Data and Plots

Band Edges



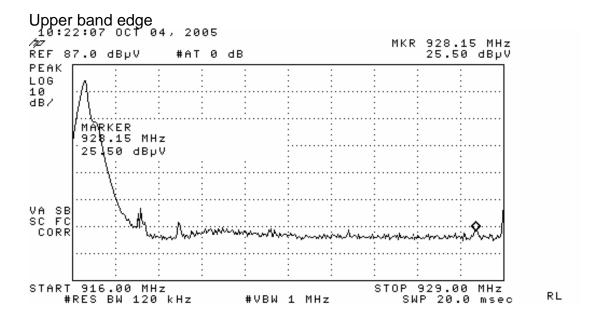


Table1:

Band Ed	ge									Curtis -S t	raus LLC
Date:	04-Oct-05			Company:	Dresser				W	ork Order:	F0739
Engineer:	Mairaj Hussa	in	1	EUT Desc:	XW-1						
								Measuremen	nt Distance:	3 m	
Notes:	RBW: 120KH	z; VBW:1MF	łz					EU.	T Max Freq:	916.37MHz	
Antenna			Preamp	Antenna	Cable	Adjusted			F	CC Class I	3
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading			Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)			(dBµV/m)	(dB)	(Pass/Fail)
Hpk	902.0	22.1	20.2	22.9	4.6	29.4			46.0	-16.6	Pass
Hpk	901.77	24.5	20.2	22.9	4.6	31.8			46.0	-14.2	Pass
Hpk	928.0	23.0	20.2	22.8	4.8	30.4			46.0	-15.6	Pass
Hpk	928.1	25.5	20.2	22.8	4.8	32.9			46.0	-13.1	Pass
Table	e Result:	Pass	by	-13.1	dB	•		Wo	orst Freq:	928.1	MHz
Test Site:	"T"	Pre-Amp:	Black	Cable:	EMIR-08	3	Analyzer: Blue		Antenna:	Red-Black	

Note: All readings are peak unless otherwise noted.

Conclusion:	The product meets the respective limit at
Conclusion.	lower/upper restricted band edge.

Sample calculation:

Adjusted Reading = reading + cable factor + antenna factor – distance factor

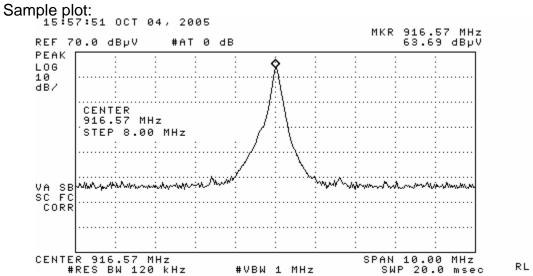
Section 15.249

Table2:

Fundam	ental										Curtis -S t	raus LLC	
Date:	04-Oct-05			Company:	Dresser				Work Order: F0739				
Engineer:	Mairaj Hussa	in		EUT Desc:	XW-1								
	Measurement Distance: 3 m												
Notes:									EU'	T Max Freq:	916.37MHz		
Antenna			Preamp	Antenna	Cable Adjusted						FCC 15.249	l	
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading				Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)				(dBµV/m)	(dB)	(Pass/Fail)	
Hpk	916.38	63.7	0.0	22.7	4.7	91.1				93.97	-2.87	Pass	
Vpk	916.38	60.2	0.0	22.7	4.7	87.6				93.97	-6.37	Pass	
Table	e Result:	Pass	by	-2.87	dB				Wo	orst Freq:	916.38	MHz	
Test Site:	"T"	Pre-Amp:	none	Cable:	EMIR-08	3	Analyzer: E	Blue		Antenna:	Red-Black		

Sample calculation:

Adjusted reading = Reading + Antenna factor + Cable factor - Pre amp factor



Section 15.249 (d)

Table 3:

Spurious	s Emissi	ons								Curtis -S t	raus LLC
Date:	04-Oct-05			Company:	Dresser				W	ork Order:	F0739
Engineer:	Mairaj Hussa	in		EUT Desc:	XW-1						
	Frequency Range: 30 - 1000MHz Measur										
Notes:	Notes: RBW: 120KHz, VBW: 1MHz							EU.	T Max Freq:	916.37MHz	
	Tx abd Rx m	ode (normal	operating m	node)							
Antenna			Preamp	Antenna	Cable	Adjusted			FCC Class B		
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading			Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)			(dBµV/m)	(dB)	(Pass/Fail)
V	104.99	37.1	21.1	11.0	0.8	27.8			43.5	-15.7	Pass
v	45.5	37.0	21.2	10.9	0.2	26.9			40.0	-13.1	Pass
v	48.8	38.5	21.2	9.3	0.3	26.9			40.0	-13.1	Pass
h	297.89	27.0	20.9	14.0	2.1	22.2			46.0	-23.8	Pass
Table	Table Result: Pass by				dB			Worst Freq: 45.5 MHz			
Test Site: "T" Pre-Amp: Black				Cable:	EMIR-08	3	Analyzer: Green	Antenna: Red-Black			

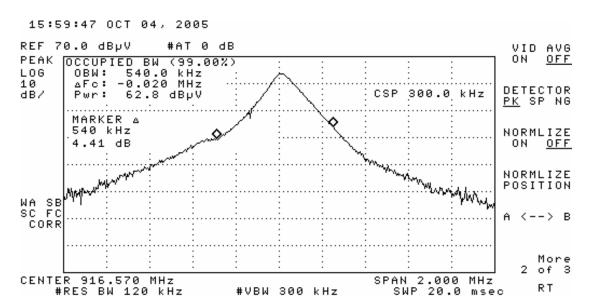
Sample calculation:

Adjusted reading = Reading + Antenna factor + Cable factor - Pre amp factor

Table 4:

Spurious	s and Ha	rmonic	S								Curtis -S t	raus LLC
Date:	04-Oct-05			Company:	Dresser					W	ork Order:	F0739
Engineer: Mairaj Hussain EUT Desc: XW-1												
Frequency Range: 1 - 10GHz Measurement Distance: 3 m												
Notes: Tx and Rx modes EUT Max Freq: 916								916.37MHz				
Antenna			Preamp	Antenna	Cable	Adjusted				F	CC Class I	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)
Hpk	1833.0	34.0	17.8	28.6	1.9	46.7				54.0	-7.3	Pass
Table	e Result:	Pass	by	-7.3	dB				W	orst Freq:	1833.0	MHz
Test Site:	White	Cable:	EMIR-H	IGH 11	Analyzer: Gr	een	n Antenna: Black Horn					

Occupied BW



AC Line Conducted Emission Measurements

AC line conducted emissions testing was not performed because the product is run by a battery.

LIMITS

Quasi-Peak: $250\mu V = 47.9dB\mu V$ in the range 450kHz to 30MHz [47 CFR 15.207(a) Revised as of October 1, 2001]

Note: On July 12, 2004, FCC adopts the conducted emissions limits of the European CISPR 22 standard as outlined below

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

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

[47 CFR 15.207(a) Revised as of October 1, 2002; amended by ET Docket 98-80; FCC 02-157, published in the Federal Register Vol. 67, No. 132, on Wednesday, July 10, 2002]

Test Equipment Used

SPECTRUM ANAL	VZERS /	RANGE					ASSET	EV. 30-SEP CAT		
RECEIVERS		KANGE	MN	MFR	l .	SN	ASSET	CAI		CALIBRATION DUE
Red		9kHz-1.8GHz	8591E	HP	344	1A03559	00024	- 1		13-JAN-2006
WHITE		9kHz-22GHz	8593E		3547	7U01252	00022	- 1		08-MAR-2006
BLUE		9kHz-1.8GHz	8591E			3A00227	00070			03-NOV-2005
YELLOW		9kHz-2.9GHz	8594E			3A01958	00100			20-APR-2006
GREEN		9kHz-26.5GHz				9A03618	00100	i		02-AUG-2006
BLACK		9kHz-12.8GHz				0A00944	00143	- 1		27-DEC-2005
YELLOW-BLA		20Hz-40.0MHz				4A05219	00030	!		Out of Service
TELECOM 358	35A	20Hz-40.0MHz				DA02762	01067			04-FEB-2006
ORANGE		9kHz-26.5GHz				9440975	00394	I		22-JUN-2006
EMI TEST RECE	EIVER	20-1000MHz	ESVS3	0 R&S	827	957/001	01098	ı		27-OCT-2005
LISNS/MEASUREN	/FNT	RANGE						ASSET	Сат	
PROBES	1L141	TANGE	1M	1	MfR		SN	ASSLI	OAI	CALIBRATION DUE
RED		10kHz-30MHz	8012-50-R	-24-BNC	SOLA	R 9	956348	00753	П	15-APR-2006
BLUE (DC)			8012-50-R		SOLA		956349	00752	ii	02-MAY-2006
YELLOW-BLACK			8012-50-R		SOLA		984735	00732	ii	15-APR-2006
	`									
ORANGE			8012-50-R		SOLA		903707	00754	II ''	02-MAY-2006
GOLD (DC)			8012-50-R		SOLA		984734	00247	II	02-MAY-2006
Brown			8012-50-R		SOLA		411656	00986	II	04-MAY-2006
GREEN		10kHz-30MHz	8012-50-R	-24-BNC	SOLA	-	411657	00987	II	04-MAY-2006
YELLOW		10kHz-30MHz	8012-50-R	-24-BNC	SOLA	R 0	411658	1080	II	04-MAY-2006
WHITE-BLACK		10kHz-30MHz	8610-50-T	S-100-N	SOLA	R 9	972019	00678	ll l	15-APR-2006
BLACK		10kHz-30MHz	8610-50-T		SOLA		972017	00675	ii	15-APR-2006
RED-BLACK		10kHz-30MHz	8610-50-T		SOLA		972016	00677	ii	15-APR-2006
		10kHz-30MHz	8610-50-T		SOLA			00676	ii	15-APR-2006
BLUE-BLACK							972018		"	
BLUE MONITORING F		0.01-150MHz	9155		TEGA		12350	00807	!	26-MAY-2007
YELLOW MONITORING		0.01-150MHz	9155	0-2	ETS		50972	00493	ļ	24-NOV-2005
GREEN CURREN TRANSFORMER		40Hz-20MHz	15	0	PEARS	ON	10226	00793	I	07-APR-2007
BLUE CISPR LINE P		150кHz- 30MHz	N/A	Ą	C-S		N/A	00805	II	08-JUN-2007
BLACK CISPR LINE F	ROBE	150ĸHz-	N/A	A	C-S		N/A	NONE	II	08-JUN-2007
CISPR TELCO VOLTAGI	= PROBE	30MHz 10kHz-30MHz	CS A/0		C-S		CS01	00296	Ш	28-SEP-2005
CISPR 22 TELCO		9kHz-30MHz	FCC-TLI		FISCHE	ER	20115	00746	Ï	26-OCT-2006
OPEN AREA TE	ST SITE (O	ATS)	FCC Cor	DE	IC Cor	DE	VCCI CODE	Сат		CALIBRATION DUE
SIT	ΈF		93448		IC 2762	2-F	R-1688	ll l		04-APR-2007
SIT	ΈT		93448		IC 2762	2-T	R-905	II		14-AUG-2007
	ΈA		93448		IC 2762		R-903	II		13-AUG-2007
	ΕM		93448		IC 2762		R-904	ii		19-MAR-2007
LINE CONDUCT	TED TEST S	ITES	FCC Cor	DE	IC Cor	DE	VCCI Cod	E	Сат	CALIBRATION DUE
EN	/II 1		93448		N/A		C-1801		II	01-MAY-2006
	/ 11 2		93448		N/A		C-1802		II	01-MAY-2006
	113		93448		N/A		C-1803		ii	01-MAY-2006
	11 0		33440		11//		0-1003			01-WAT-2000
MIXERS/DIPLEXERS	RANGE	MN		MFR		SN	А	SSET	Сат	CALIBRATION DUE
Mixer / Horn	26.5-40 G	Hz 11970A/28	3-442-6	HP/ATM	2332A0	1695/A046	903-01	087	ı	23-AUG-2006
MIXER / HORN	26.5-40 G			HP/ATM		7825/A046		086	i	23-AUG-2006
MIXER / HORN	40-60 GH			OML		U30110-1		0821	i	02-MAR-2007
		-							- 1	
MIXER / HORN	60-90 GH			OML		E30110-1		0822	!	03-MAR-2007
MIXER / HORN	90-140 GH			OML		F21206-1		0811	I.	03-MAR-2007
Mixer / Horn	140-220 G			OML	(G21206-1		0812	II	OUT OF CALIBRATION
DIPLEXER	40-220 GI	Hz DPL.:	26	OML		N/A	0	0813	ı	03-MAR-2007
ABSORBING	RANG						. Assi	т	Сат	
CLAMPS	INAING	-	MN		MFR	SN	1 7331	- '	JA1	CALIBRATION DUE
FISCHER CLAMP	30-1000	MHz F-20	01-23мм		FISCHER	10	3000	R1	ı	16-JAN-2006
I IOOHEN OLAWI	22 10001	1 -20	J. ZUIVIIVI		. JOURILIN	10	0000	, ·	•	10 0/111-2000

						<i>.</i>	00/1/11		
PREAMPS / ATTENUATORS / FILTERS	/ RANGE	ММ	١	MFR	SN	ı	ASSET	Сат	CALIBRATION DU
RED	0.10-2000MHz	ZFL-100	00-I N	C-S	N/A	1	00798	II	08-APR-2006
BLUE	0.01-2000MHz			C-S	N/A		00759	ii	03-AUG-2006
BLUE-BLACK	0.01-2000MHz			C-S	N/A		00800	ii	10-FEB-2006
	0.01-2000MHz	_,							
GREEN		_,		C-S	N/A		00802	II 	21-JUL-2006
BLACK	0.01-2000MHz	_,		C-S	N/A		00799	II	25-AUG-2006
ORANGE	0.01-2000MHz	_,		C-S	N/A		00765	Ш	10-FEB-2006
WHITE	1-20GHz	SMC-		C-S	4266	43	00760	II	04-AUG-2006
Brown	1-20GHz	PM2-38-218- SFI		C-S	PL16	555	1132	II	27-JUN-2006
YELLOW-BLACK	1-20GHz	SMC-		C-S	5350	55	00801	II	25-AUG-2006
HF (YELLOW)	18-26.5GHz	AFS4-180026		C-S	4675		00758	ii	23-AUG-2007
HIGH PASS FILTER	1-18 GHz	SPA-F-		K&L	36		00817	ii	06-JAN-2006
Low Pass Filter	1-9 GHz	11SL10-4100/		K&L	4		00816	ii	06-JAN-2006
HF 20DB 50W ATTENUATOR	0.03-20 GHz	PE 701			01		00010	ii	
		-	-	PASTERNACK					10-MAY-2007
HF 30DB 50W ATTENUATOR	0.03-20 GHz	PE 701	9-30	PASTERNACK	02		1168	II	10-MAY-2007
Low FREQ LPF	10-100кHz	L200K	1G1	MICROWAVE CIRCUITS	4460- DC04		1019	II	OUT OF SERVICE
Low FREQ LPF	10-100кHz	L200K	1G1	MICROWAVE CIRCUITS	4777- DC04	01	1088	II	30-AUG-2006
					DC04	-34			
ANTENNAS	RANGE	MN	MFR	SN	ASSET	CA		CALIB	RATION DUE
Operu Dii oo	20. 20000111-	CDI 0440D	0	0740	00000				NDD 0000
GREEN BILOG	30-2000MHz	CBL6112B	CHASE	2742	00620	II.			APR-2006
GREEN-BLACK BILOG	30-2000MHz	CBL6112B	CHASE	2412	00127	Ш			JAN-2006
GREEN-RED BILOG	30-2000MHz	CBL6112B	CHASE	2435	00990	Ш		OUT (OF SERVICE
BLUE BILOG	30-1000MHz	3143	EMCO	1271	00803	Ш		06-N	ЛАY-2007
GRAY BILOG	20-2000MHz	3141	EMCO	9703-1038	00066	Ш	06-MAY		MI) / 05-AUG-2006(RI
YELLOW-BLACK BILOG	20-2000MHz	CBL6140A	CHASE	1112	00126	ii			MI) / 12-AUG-2006(RI
RED-WHITE BILOG	30-2000MHz	JB1	SUNOL	A091604-1	01105	ii	00 1017 (1	,	SEP-2006
RED-BLACK BILOG	30-2000MHz	JB1	SUNOL	A091604-2	01106	Ш			SEP-2006
YELLOW HORN	1-18GHz	3115	EMCO	9608-4898	00037	ı	27-MAY	-2007(EN	ЛI) / 05-JUN-2006 (R
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056	ı		17-	JUN-2007
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390	- 1		09-	JUN-2007
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE	00758	00758	i			AUG-2007
SMALL LOOP	9kHz-30MHz	PLA-130/A	ARA	1024	00755	- 1			EB-2006
						- !			
LARGE LOOP	20Hz-5MHz	6511	EMCO	9704-1154	00067	- 1			NOV-2005
ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMCO	3824	00068	Ш		04-N	ЛАY-2006
INDUCTION COIL	50-60Hz	1000-4-8	C-S	N/A	00778	Ш		26-8	SEP-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1370	00757	Ш		18-N	//AR-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO	1371	00756	Ш		18-1	//AR-2007
RE101 LOOP SENSOR		RE101-13.3CM	C-S	N/A	00818	ii			//AR-2007
RS101 RADIATING LOOP									
		RS101-12CM	C-S	N/A	00819	II			/AR-2007
RS101 LOOP SENSOR	30Hz-100ĸHz	RS101-4CM	C-S	N/A	00820	II		13-1	MAR-2007
EFT	N./	IN	MFR		SN		ASSE	Сат	CALIBRATION DU
EFT DIRECT COUPLING CA		/A	C-S		01		T 00794	II.	29-JAN-2006
LI I DIRECT COUPLING CA	AF IV.	<u> </u>	U-3		UI		00794	11	23-JAIN-2000
ESD GENERATORS	MN		MFR	SN		SSET	Сат		CALIBRATION DUE
GREEN	NSG4		SCHAFFNER	00083		0763	I		17-FEB-2006
RED	NSG4	135	SCHAFFNER	00162	25 00	0762	I		29-DEC-2005
YELLOW	930	D	ETS	201	00	0673	<u> </u>		18-AUG-2007
BEST EMC-2 MN	MFR	SN	ASSET	САТ			CALIBRAT	ION DUE	=
BLUE 711-11		_B 199824-		П	JUN-2006 (Surge			- ·I) / 05-AUG-2006 (EF
		002SC 200122-	00623	П	,		,	,	,
RED 711-11	00 SCHAFFNE	R 074SC		16-	JUN-2006 (SURGE) / U4-AUG-	2006 (D+	·I) / 03-DEC-2005 (EF
ARMONIC & FLICKER ANA	ALYZER MN	J	MFR	S	N	Δ	ASSET	Сат	CALIBRATION DU
HFTS	HP68-		HP	3531A			0738	II	03-DEC-2005
10001I/2 AC POWER SYS			IA INSTRUMENTS				0376	<u> </u>	20-JAN-2006
CHAMPEDS AND COURT		INI	N4	C11			0:-		ALIDDATION DO
CHAMBERS AND STRIPLINE RFI 1 CHAMBER	3 METER	IN Compact	MFR PANASHIE	SN LD N/A			CAT		12-AUG-2006
RFI 2 CHAMBER		LDING SYSTEM	LINDGREI				ii		05-AUG-2006
IN 12 OHAWDER	0-7 X 07 Onie	LDVO O I O I E IVI	LINDGREI	1332	-5 0078	,,,	- 11		00-A00-2000

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RFI 3 STRIP ENVIRONMENTAI	L (SAFETY)	N/A ECL5		C-S B-M-A Inc.		N/A 2041	00029	 	NA 12-JAN-2006
ENVIRONMENTAL	L (SAFETY)	SGTH-3	18	B-M-A Inc.		2245	00321	l	12-JAN-2006
AMPLIFIERS	RANGE	MN	MFR	SN	ASSET	Сат		CALI	IBRATION DUE
RED	0.5-1000MHz	10W1000B	AR	18708	00032	II	05-AUG	-2006 (R	RFI2) / 12-AUG-2006 (RFI1)
GREEN	0.5-1000MHz	10W1000B	AR	23423	00123	II		05-AU	JG-2006 (RFI2)
BLUE	0.01-250MHz	75A250	AR	19165	00039	II	08-	-JUL-200	06 (EU & NEBS CRFI)
BLACK	0.01-250MHz	75A250	AR	23411	00122	II	08-JUL-20	06 (EU &	k NEBS CRFI) / 05-AUG-2006
									(RFI2)
	0.01-250MHz	75A250	AR	26827	00367		08-JUL-200	•	S CRFI) / 12-AUG-2006 (RFI1)
HP489A	1.0-2.0GHz	HP489A	HP	449-00762	00971	II			T OF SERVICE
Hughes 10W	1.0-2.0GHz	1177H09	HUGHES	272	RENTAL				1-JUL-2006
HP491C	2.0-4.0GHz	HP491C	HP	449-00636	00764				5-JUN-2006
Hughes 10W	4.0-8.0GHz	1177H02	HUGHES	092	RENTAL				5-JUN-2006
HP493A #1	4.0-8.0GHz	HP493A	HP	171402242	00085	II			T OF SERVICE
HP493A #2	4.0-8.0GHz	HP493A	HP	449-00562	00771	II		OUT	T OF SERVICE
HP495A	7.0-10.0GHz	HP495A	HP	304-00237	00086	II		05	5-JUN-2006
FIELD	RANGE						ASSET	Сат	
PROBES		M	N	MFR		SN			CALIBRATION DUE
RED	0.01-1000M	IHz HI-4	400	House		90369	00031		45 ALIC 2006
	0.01-1000N 0.01-1000N			HOLADAY				- !	15-AUG-2006
GREEN				HOLADAY		97363	00136	!	26-AUG-2006
BLUE	0.01-1000M	IHz HI-4	422	HOLADAY		95696	01100	<u> </u>	15-AUG-2006
SIGNAL GENER		RANGE	MN	MFR		SN	Asse		CAT CALIBRATION DUE
RED		0.09-2000MHz	HP8648B	HP		3847U02			I 15-FEB-2006
BLUE		0.1-1000MHz	HP8648A	HP		3426A00			I 25-AUG-2006
GREEN		0.09-2000MHz	HP8648B	HP		3623A02	2072 0012	5	I 12-OCT-2005
ORANGE		0.1-1000MHz	HP8648B	HP		3537A0 ²	1210 0002	5	I 24-JUN-2006
BLACK (TELE	сом)	0.01Hz-15MHz	HP33120A	HP		US3600	4674 0076	6	I 21-OCT-2005
YELLOW		0.01Hz-15MHz	HP33120A	HP		US3601	4119 0024	9	I 02-JUN-2006
BLUE-WHIT	TE	0.1Hz-13MHz	HP3312A	HP		1432A07	7632 0077	5	I 11-MAR-2006
SWEEPER	₹	0.01-20.0GHz	HP83752A	HP		3610A0 ²	1133 0008	7	II 03-MAY-2006
AM/FM STEREO S	ig. Gen.	0.1-170MHz	LG3236	LEADER	1	36873	01 0095	9	I 30-AUG-2006
IMPULSE GENER	RATOR	1-100Hz	CIG-25	ELECTRO-ME	TRICS	290	0094	2	I 05-AUG-2006
BULK INJECTIO	ON CLAMPS	RANGE	MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
		0.01-100MHz					00118	П	08-JUL-2006 (EU & NEBS
GREE	N		95236-1	ETS		50215	000	••	CRFI)
RED		0.01-100MHz	95236-1	ETS		34026	1020	II	08-JUL-2006 (EU & NEBS
TED			30200			01020			CRFI)
						-			
CDN NETW	ORKS	RANGE		MN		/IFR	ASSET	Сат	
BLACK		0.10-100MHz	20	A M-2 (DC)		C-S	00783	II	08-JUL-2006
BLUE		0.10-100MHz		15A M-3		C-S	00806	II	08-JUL-2006
Orange	Ē	0.10-100MHz		15A M-2		C-S	00786	II	08-JUL-2006
RED		0.10-100MHz		15A M-3		C-S	00780	II	08-JUL-2006
WHITE		0.10-100MHz		15A M-3		C-S	00782	II	08-JUL-2006
YELLOW-BL	_ACK	0.10-100MHz		15A M-3	C	C-S	00784	II	08-JUL-2006
GREEN		0.10-100MHz		30A M-3		C-S	00779	II	08-JUL-2006
YELLOW		0.10-100MHz		30A M-5		C-S	00804	II	08-JUL-2006
BLUE-WHI		0.10-100MHz		15A M-5		C-S	00788	Ш	08-JUL-2006
		0.10-100MHz		M-3		C-S	1169	ii	08-JUL-2006
Brown		0.10-100MHz		M-3		C-S	1170	ii	08-JUL-2006
Brown Brown-Wi		0.10-100IVIDZ		M-2 (DC)		C-S	1171	ii	08-JUL-2006
	HITE	0.10-100MHz		141-2 (DC)					
BROWN-WH	HITE ACK			M-2 (DC)	(C-S	1177	ll l	
BROWN-WH BROWN-BL RED-BLAG	HITE ACK CK	0.10-100MHz 0.10-100MHz		M-2 (DC)		C-S C-S		II II	28-SEP-2005
BROWN-WH BROWN-BL	HITE ACK CK ES)	0.10-100MHz	100Ω R	` ') (C-S C-S C-S	1177 00810 1172	 	28-SEP-2005 17-JAN-2006
BROWN-WH BROWN-BL RED-BLAG YELLOW (R	HITE ACK CK ES)	0.10-100MHz 0.10-100MHz 0.10-100MHz	100Ω R	M-2 (DC) ESISTOR NWK (M-1)) (C-S	00810	II	
BROWN-WH BROWN-BL RED-BLAG YELLOW (R GREEN (RE	HITE ACK CK EES)	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	100Ω R 100Ω R	M-2 (DC) ESISTOR NWK (M-1) ESISTOR NWK (M-1)) (C-S C-S	00810 1172	II II	17-JAN-2006
BROWN-WH BROWN-BL RED-BLAG YELLOW (R GREEN (RE	HITE ACK CK EES) ES)	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz	100Ω R 100Ω R	M-2 (DC) ESISTOR NWK (M-1) ESISTOR NWK (M-1) MFR) (C-S C-S SN	00810 1172 Asse	II II	17-JAN-2006 CAT CALIBRATION DUE
BROWN-WH BROWN-BLA RED-BLAG YELLOW (R GREEN (RE	HITE ACK CK EES) ES) DSCOPES DOMHZ	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz MN	100Ω R 100Ω R	M-2 (DC) ESISTOR NWK (M-1) ESISTOR NWK (M-1) MFR TEKTRONIX) C	SN C036986	00810 1172 ASSE 1166		17-JAN-2006 CAT CALIBRATION DUE I 26-AUG-2006
BROWN-WH BROWN-BL RED-BLAG YELLOW (R GREEN (RE	HITE ACK EES) ES) DSCOPES DOMHZ EETY 100 MHz	0.10-100MHz 0.10-100MHz 0.10-100MHz 0.10-100MHz MN TDS 2	100Ω R 100Ω R	M-2 (DC) ESISTOR NWK (M-1) ESISTOR NWK (M-1) MFR) () (C-S C-S SN	00810 1172 Asse 1166 0073		17-JAN-2006 CAT CALIBRATION DUE

					10.	01334-7	ZAA LAAL	1
RMS VOLTMETERS/CURRENT C	LAMP	MN	Mnfr		SN	ASSET	Сат	CALIBRATION DUE
TRUE-RMS MULTIMETER		79111	FLUKE	71	700298	00769	ı	21-OCT-2005
TRUE-RMS MULTIMETER		177	FLUKE	83390024		00973	- 1	10-MAR-2006
TRUE-RMS MULTIMETER (REFERENCE)		177	FLUKE	83	390025	00974	1	10-MAR-2006
TRUE-RMS MULTIMETER (TELECOM)		177	FLUKE	83	3430419	00975	ı	10-MAR-2006
TRUE-RMS CLAMP METER (SAFE	,	36	FLUKE	68	8805882	00700	1	11-MAR-2006
	,							
SURGE GENERATORS		N	1N	MFR	SN	ASSET	Сат	CALIBRATION DUE
TRANSIENT WAVEFORM MONITOR		TW	/M-5	CDI	003982	00323	II	07-JUN-2006
UNIVERSAL SURGE GENERATOR		N	<i>1</i> 5	CDI	003966	00324	II	09-JUN-2006
THREE PHASE COUPLING NWK		30	CN	CDI	003455	00325	II	09-JUN-2006
1.2x50uS Plugin Modul	.E	1.2x50∪	S PLUGIN	CDI	N/A	00842	II	09-JUN-2006
10x160uS Plugin Modu	LE	10x160L	S PLUGIN	C-S	N/A	00843	II	09-JUN-2006
10x560uS Plugin Modu	LE	10x560L	S PLUGIN	C-S	N/A	00841	II	09-JUN-2006
PSURGE CONTROLLER MOD			GE 8000	HAEFELY	150267	00879	II	13-JUN-2006
COUPLING/DECOUPLING MO	DULE		900	HAEFELY	149213	00880	II	13-JUN-2006
IMPULSE MODULE		_	1900	HAEFELY	149202	00881	ii	13-JUN-2006
HIGH VOLTAGE CAP NWK 5KVDC, 18μF			HVCC	C-S	01	00772	Ï	28-SEP-2006
NEBS Surge Generato			I/A	C-S	N/A	00088	II	08-JUN-2006
2x10uS Surge Generat			0uS	C-S	N/A	00846	ii	09-JUN-2006
10x700uS Surge Genera			700US	C-S	N/A	00847	ii	09-JUN-2006
12 PAIR SURGE RESISTOR MO			I/A	C-S	N/A	00768	ii	28-SEP-2005
121 AIR GORGE REGIOTOR IN	DOLL	- 1			14// (00700		20 021 2000
Power/Noise Meters		MN	MFR		SN	ASSET	Сат	CALIBRATION DUE
Power Meter		435B	HP	24	445A11012	00773		06-APR-2006
Power Meter		437B	HP		912A01367	01099	i	27-OCT-2005
Power Sensor		8481A	HP		702A61351	00774	i	05-APR-2006
PSOPHOMETER		2429	BRUEL & KJ		1237642	00585	İ	14-FEB-2007
TRANSMISSION LINE TESTER (DBRNC)		185T	AMREL		998658	00823	ii	07-MAR-2006
(,							
OVERVOLTAGE CHAMBERS	MN	MFR		SN		ASSET	Сат	CALIBRATION DUE
72kW Power Fault Simulator	OV1	C-S		N/A		00792	ll l	31-MAR-2007
POWER FAULT SIMULATOR	OV2	C-S		N/A		00116	II	31-MAR-2007
DIPOLE TAPE MEASURES	MN		MFR		SN	ASSET	Сат	CALIBRATION DUE
26FT TAPE #1	23380		LUFKIN		C3166-1	00776		13-MAR-2007
26FT TAPE #2	23380	ME	LUFKIN		C3166-2	00777	<u> </u>	13-MAR-2007
METEOROLOGICAL METERS		MN		MFR	SN	ASSET	Сат	CALIBRATION DUE
TEMP./HUMIDITY/ATM. PRESSUR GAUGE	F 740	00 PERCEPTION	II NC	Davis	N/A	00965	II	08-FEB-2007
TEMPERATURE /HUMIDITY GAUG	Ē	THG-912		HUGER	4000562	00789	1	01-FEB-2007
WEATHER CLOCK (PRESSURE ONI	.Y)	BA928		OREGON	C3166-1	00831	I	02-FEB-2007
				SCIENTIFIC				
CONSUMABLES	SP	EC.	MFR	.5	STOCK/MN	ASSET	Сат	CALIBRATION DUE
NEBS CHEESECLOTH		BM/KG	ED&D		ACC-01	N/A	III	N/A
NEBS CARBON BLOCK		1KV SURGE	RELIABL		3AB	N/A N/A	III	N/A N/A
INEDO CARBON DLOCK	3-WIL-GAP	INV SUKGE	KELIABL		JAD	IN/A	111	IN/A

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

Terms And Conditions

Paragraph 1. SERVICES. LABORATORY will:

- Use the degree of care and skill ordinarily exercised by and consistent with the standards of the profession.
- Perform all technical services in substantial accordance with the generally accepted laboratory principles and practices. 1.2 1.3
- Retain all pertinent records relating to the services performed for a period of three (3) years following submission of the report describing such services, during which period the records will be made available to CLIENT upon reasonable request.

Paragraph 2. CLIENT'S RESPONSIBILITIES. CLIENT or his authorized representative will:

- 2.1 Provide LABORATORY with all plans, schematics, specifications, addenda, change orders, drawings and other information for the proper performance of technical services.
- 2.2 Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the CLIENT; such person or firm to have complete authority to transmit instructions, receive information and data, interpret and define CLIENT's policies and decisions with respect to the LABORATORY's work on behalf of the CLIENT and to order, at CLIENT's expense, such technical services as may be required.
- Designate a person who is authorized to receive copies of LABORATORY's reports.
- Undertake the following:
 - (a) Secure and deliver to LABORATORY, without cost to LABORATORY, preliminary representative samples of the
 - equipment proposed to require technical services, together with any relevant data.

 (b) Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate the specified technical services.

Paragraph 3. GENERAL CONDITIONS:

- LABORATORY, by the performance of services covered hereunder, does not in any way assume any of those duties or 3.1
- responsibilities customarily vested in the CLIENT, its employees, or any other party, agency or authority.

 LABORATORY shall not be responsible for acts of omissions of any other party or parties involved in the design, manufacture 3.2 or maintenance of the equipment or the failure of any employee, contractor or subcontractor to undertake any aspect of equipment's design, manufacture or maintenance.
- LABORATORY is not authorized to revoke, alter, release, enlarge or release any requirement of the equipment's design, manufacture or maintenance unless specifically authorized by CLIENT or his authorized representative.

 THE ONLY WARRANTY MADE BY LABORATORY IN CONNECTION WITH ITS SERVICE PERFORMED 3.3
- 3.4 HEREUNDER IS THAT IT WILL USE THAT DEGREE OF CARE AND SKILL AS SET FORTH IN PARAGRAPH I ABOVE. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED FOR SERVICES PROVIDED HEREUNDER.
- Where the LABORATORY indicates that additional testing is advisable to obtain more valid or useful data, and where such testing has not been authorized, CLIENT agrees to view such test reports as inconclusive and preliminary. The LABORATORY will supply technical service and prepare a report based solely on the sample submitted to the
- LABORATORY by the CLIENT. The CLIENT understands that application of the data to other devices is highly speculative and should be applied with extreme caution.
- The LABORATORY agrees to exercise ordinary care in receiving, preserving and shipping (F.O.B. Littleton, MA) any sample to be tested, but assumes no responsibility for damages, either direct or consequential, which arise from loss, damage or 3.7 destruction of the samples due to the act of examination, modification or testing, or technical services or circumstances beyond LABORATORY's control.
- The LABORATORY will hold samples for thirty (30) days after tests are completed, or until the CLIENT's outstanding debts to the LABORATORY are satisfied, whichever is later.
- 3.9 The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of
- 3.10 It is agreed between LABORATORY and CLIENT that no distribution of any tests, reports or analysis other than that described below shall be made to any third party without the prior written consent of both parties unless such distribution is mandated by operation of law. It is agreed that tests, reports, or analysis results may be disclosed to third party auditors of the laboratory at the laboratory facility in the course of accreditation maintenance audits. No reference to reports or technical services of the LABORATORY shall be made in any advertising or promotional literature without the express written permission of the LABORATORY.
- 3.11 The CLIENT acknowledges that all employees of LABORATORY operate under employment contracts with the LABORATORY and CLIENT agrees not to solicit employment of such employees or to solicit information related to other clients from said employees.
- 3.12 In recognition of the relative risks and benefits of the project to both CLIENT and LABORATORY, the risks have been allocated such that the CLIENT agrees, to the fullest extent permitted by law, to limit the liability of the LABORATORY to the CLIENT for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes including attorneys' fees and costs and expert witness fees and costs, so that the total aggregate liability of the LABORATORY to the CLIENT shall not exceed \$100,000, or the LABORATORY'S total fee for services rendered on this project, whichever is greater. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

Paragraph 4. INSURANCE:

- LABORATORY shall secure and maintain throughout the full period of the services provided to the CLIENT adequate insurance to protect it from claims under applicable Workmen's Compensation Acts and also shall maintain one million dollars of general liability coverage to cover claims for bodily injury, death or property damage as may arise from the performance of
- 4.2 The CLIENT hereby warrants that it has sufficient insurance to protect its employees adequately under applicable Workmen's Compensation Acts and for bodily injury, death, or property damage.
- No insurance of whatever kind or type, which may be carried by either party is to be considered as in any way limiting any 4.3 other party's responsibility for damages resulting from their operations or for furnishing work and materials

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Paragraph 5. PAYMENT:

- CLIENT shall pay to LABORATORY such fees for services as previously agreed, orally or in writing, within 30 days of presentment of a bill for such services performed. In the event CLIENT ordered, orally or in writing, services but such services were not assigned a rate for billing, such services shall be billed at the LABORATORY's reasonable and customary rate.
- CLIENT shall be responsible for all shipping, customs and other expenses related to services provided by LABORATORY to the CLIENT, and shall fully insure any test sample or other equipment provided to LABORATORY by the CLIENT. Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 1½% per month.

Paragraph 6. ISO/IEC GUIDE 17025 ADDITIONS:

- 6.1
- CLIENT agrees that this test report will not be reproduced except in full, without written approval from the LABORATORY. CLIENT agrees that this test report shall not be used to claim product endorsement by A2LA or ANSI or any agency of the 6.2 U.S. Government.
- CLIENT agrees that test results presented herein relate only to the sample tested by the LABORATORY.

A2LA Accreditation

· 			
SCOPE OF ACCI	REDITATION TO ISO/IEC 17025-1999	EN 55011 1991, 1998	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio- frequency equipment.
	CURTIS-STRAUS ¹ 527 Great Road	SABS CISPR 11:1997	Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics Limits and methods of
Barry O	Littleton, MA 01460 Juinlan Phone: 978-486-8880	Canada ICES-001 1998	measurement Industrial, scientific and medical radio frequency generators
	ELECTRICAL	CNS13803	Industrial, Scientific and Medical Instrument Limits and methods of measurement of electromagnetic disturbance
	ELECTRICAL	AS/NZS 2064: 1997	characteristics of industrial, scientific and medical (ISM) radio-
Valid until: November 30, 2005	Certificate Number: 1627-01	CSA C108.8 – M1983	frequency equipment. Electromagnetic Emission from Data Processing Equipment and
In recognition of the successful completion of	the A2LA evaluation process, accreditation is granted to this		Electronic Office Machines
laboratory to perform the following <u>Electromage</u> <u>Safety tests</u> :	gnetic Compatibility (EMC), Telecommunications, and Product	CISPR 13:1996, 1998, 2001	Limits and methods of measurement of radio interference characteristics of sound and television broadcast receivers and associated equipment.
Electromagnetic Compatibility (EMC)	· ·	EN 55013: 1990, 2001	Sound and television broadcast receivers and associated equipment:
Electrostatic Discharge testing; Electrical Fast	etic fields); Conducted emissions testing (voltage and current); Transient testing; Radiated Immunity testing; Conducted Immunity Dips, Interrupts and Voltage Variations testing; Magnetic Immunity		Electromagnetic compatibility. Part 1: Specification for limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment.
	Stability measurements; Longitudinal Induction measurements; ing; Low frequency disturbance voltage testing; Disturbance Power	EN 55013 Amend 12 1994	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment. Amendment 12
	· ·	SABS CISPR 13: 1996	Limits and methods of measurement of radio interference
EMC Standards	<u>Title</u>		characteristics of sound and television broadcast receivers and associated equipment.
Emissions	· ·	CNS 13439	Broadcast receiver and associated equipment Limits and methods of
CISPR 22 1997 with amendments 1 and 2	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.	AS/NZS 1053: 1999	measurement of radio interference characteristics of sound and television broadcast receivers and associated equipment.
CNS13438 1994	Limits and methods of measurement of radio interference	CISPR 14 1993	Limits and methods of measurement of radio disturbance
EN55022:1994 and 1998	characteristics of information technology equipment. Limits and methods of measurement of radio disturbance	(except discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for household and similar purposes, electric tools and electric apparatus.
SABS CISPR 22:1997	characteristics of information technology equipment. Information technology equipment – Radio disturbance	EN 55014 1993, 1997 discontinuous disturbances)	Limits and methods of measurement of radio disturbance (except characteristics of electrical motor- operated and thermal appliances for
Canada ICES-003 1997	characteristics - Limits and methods of measurement	,	household and similar purposes, electric tools and similar electric apparatus.
Canada ICES-003 1997 AS/NZS 3548 1995	Digital apparatus Australian/New Zealand Standard Limits and methods of	AS/NZS 1044: 1995	Limits and methods of measurement of radio disturbance (except
	measurement of radio disturbance characteristics of information	discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
CISPR 11 1990, 1997, 1999	technology equipment Limits and methods of measurement of electromagnetic		household and similar purposes, electric tools and similar electric apparatus.
	disturbance characteristics of industrial, scientific and medical	Immunity	
	(ISM) radio-frequency equipment.	CNS13783-1	Household Electrical Appliances
	· ·	SABS CISPR 14-1 1993	Electromagnetic compatibility - Requirements for household
1 Note: This accreditation covers testing perfor	rmed at the laboratory listed above and the satellite facility		appliances, electric tools and similar apparatus Part 1: Emission – Product family standard
located at 168 Ayer Rd, Littleton, MA 01460		SABS CISPR 14-2 1997 + A1:2001	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard
(A2LA Cert. No. 1627-01) 9/22/05	Page 1 of 11	(A2LA Cert. No. 1627-01) 9/22/05	Page 2 of 11
CISPR 14-2 1996, 1997 + A1:2001	Immunity requirements for household appliances, tools and	EN 61000-6-1: 1997, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards-
CISPR 20: 1995, 2002 with amendment 3	similar apparatus. Limits and methods of measurement of immunity characteristics		Section 1: Immunity for residential, commercial and light-industrial environments
(associated group only)	of sound and television broadcast receivers and associated equipment.	EN 61000-6-2: 1998, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments
TN1 55020 4005 2002		TD1 50001 2 100 6	
EN 55020: 1995, 2002 group only)	Electromagnetic immunity of broadcast receivers and (associated Associated equipment.	EN 50091-2 1996	Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements
group only) CISPR 24	Electromagnetic immunity of broadcast receivers and (associated Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement	EN 55024 1998	requirements Information technology equipment – Immunity Characteristics – Limits and methods of measurement.
group only) CISPR 24 SABS CISPR 24 1997	Electromagnetic immunity of broadcast receivers and (associated Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement		requirements Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for
group only) CISPR 24	Electromagnetic immunity of broadcast receivers and (associated Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics –	EN 55024 1998	requirements Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Emission Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control professional use.
group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995 European Union Basic EMC Standards	Electromagnetic immunity of broadcast receivers and (associated Associated equipment. Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard: Electromagnetic compatibility – Requirements and tests.	EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997	requirements Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Emission Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control professional use. Part 2: Immunity Electrical equipment for measurement, control and laboratory use –
group only) CISPR 24 SABS CISPR 24 1997 AS/NZS 3200.1.2: 1995	Electromagnetic immunity of broadcast receivers and (associated Associated equipment. Information technology equipment – Immunity characteristics – Limits and methods of measurement Information technology equipment – Immunity characteristics – Limits and methods of measurement Approval and test specification – Medical electrical Equipment – General requirements for safety – Collateral Standard:	EN 55024 1998 EN 55103-1 1997 EN 55103-2 1997 (excluding Annex A3)	requirements Information technology equipment – Immunity Characteristics – Limits and methods of measurement. Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Emission Electromagnetic Compatibility – Product family standard for audio, video, audio-visual and entertainment lighting control professional use. Part 2: Immunity
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(ETS) EN 300 385 v1.2.1: 1998, 1999	Electromagnetic compatibility and Radio spectrum matters (ERM); Electromagnetic Compatibility (EMC) standard for		receivers, 27.41 to 960.0 MHz Industry Canada – 900 MHz narrowband personal communications
EN 300 330 v1.2.1: 1998, 1999	fixed radio links and ancillary equipment (ETS) Electromagnetic compatibility and Radio spectrum matters (ERM); Short range devices (SRD); Technical characteristics	Rev 1 Canadian RSS-210 2000 Issue 3,	services Industry Canada – Low power license-exempt radio 2001 Issue 5 communication devices
	and test methods for radio equipment in the range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz	RFS29 1998	Specification for Restricted Radiation Radio Apparatus (New Zealand)
ETS 300 328 1996	to 30 MHz Radio Equipment and Systems (RES); Wideband transmission systems; Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band and	FCC Standards 47 CFR FCC low power transmitters operating on frequencies below 1 GHz, emergency alert systems, unintentional	Scope A1
ETS EN 300 440 v1.2.1 1999	using spread spectrum modulation techniques Electromagnetic compatibility and Radio spectrum matters (ERM); Short range devices; Technical characteristics and test methods for radio equipment to be used in the 1 Ghz to 40 Ghz	radiators and ISM devices. 47 CFR FCC low power transmitters operating on frequencies above 1 GHz, with the exception of spread spectrum	Scope A2
EN 301 893:2002 v1.2.1	frequency range Broadband Radio Access Networks (BRAN); 5 GHz (draft) high performance RLAN; Harmonized EN covering Essential	devices. 47 CFR FCC Unlicensed Personal Scope Communications System (PCS) devices	A3
VI.2.1 ETS 300 836-1:1998	requirements of article 3.2 of the R&TTE Directive Broadband Radio Access Networks (BRAN); High Performance	47 CFR FCC Unlicensed National Scope Information Infrastructure devices and	A4
	Radio Local Area Network (HIPERLAN) Type 1; Conformance testing specification; Part 1: Radio Type approval and Radio Frequency (RF) conformance test specification	low power transmitters using spread spectrum techniques. 47 CFR FCC Personal mobile Scope	ВІ
EN301 489-17:2002 v1.2.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for	Radio Services in the following FCC Rule Parts 22, 24, 25, 27. 47 CFR FCC General Mobile Radio	B2
	radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment	Scope Services in the following FCC Rule Parts 22, 74, 90, 95, 97.	B2
		47 CFR FCC Maritime and Aviation Scope RadioServices in 47 CFR Parts	B3
		80 and 87 47 CFR FCC Microwave Radio Services Scope in 47 CFR Parts 21, 74 and 101.	B4
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FCC/OST MP-5 1986	FCC (Federal Communications Commission) methods Of measurement of radio noise emissions from industrial, scientific	TIA/EIA-IS-968	Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone
GR-1089-CORE: 1997, 1999 issue 2/ 2002 Issue 3	and medical equipment. Bellcore electromagnetic compatibility and electrical safety – Generic criteria for network telecommunications equipment.	TIA/EIA-IS-883	Network Telecommunications Telephone Terminal Equipment Supplemental Technical Requirements for Connection of Stutter Dial Tone Detection
ANSI EMC Standards ANSI C63.4: 1992, 1999, 2001, 2003	American National Standard for methods of measurement of	TIA-968-A	Devices and ADSL Modems to the Telephone Network Telecommunications Telephone Terminal Equipment Technical
ANSI C03.4: 1992, 1999, 2001, 2003	radio-noise emissions for low-voltage electrical and electronic equipment in the range of 9 kHz to 40GHz.	T1.TRQ.6-2001	Requirements for Connection of Terminal Equipment to the Telephone Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital
ANSI C63.5 1988	American National Standard for electromagnetic compatibility – radiated emissions measurements in electromagnetic interference (EMI) control – calibration of antennas.	Canada VDSL	Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry Terminal Attachment Program Requirements and Test Methods for
IEEE EMC Standards		Issue 1 January 2003	Very-High-Bit-Rate Digital Subscriber Line (VDSL) Terminal Equipment
IEEE C62.41: 1980, 1991	IEEE recommended practice on surge voltages in low-voltage AC power circuits	AS/ACIF S002-2001	Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone
Swedish EMC Standards BAKOM 3336.3 1995	Electromagnetic compatibility and electrical safety (EMC & S)	AS/ACIF S016-2001	Network Requirements for Customer Equipment for connection to hierarchical digital interfaces
	for wired terminal equipment. Harmonization document information over the OFCOM requirements.	AS/ACIF S031-2001 AS/ACIF S038-2001	Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface
South African EMC standards other than CISPR SABS 1718-1: 1996	R equivalents South African Bureau of Standards: Specification for Gaming equipment. Part 1: Casino equipment.	AS/ACIF S043-2001	Requirements for Customer Equipment for Connection to a Metallic Local Loop Interface of a Telecommunications Network — Part 1: General Part 2: Broadband
Japanese VCCI Standards			
VCCI V-3/99.05 1999		ITU-T G.703	Part 3: DC, Low Frequency AC and Voiceband Physical/electrical characteristics of hierarchical Digital interfaces
VCCI V-3/99.05 1999 VCCI V-4/99.05 1999	Technical Requirements Instruction for Test Conditions for Requirement under Test	ITU-T G.703 HKTA 2028	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s
VCCI V-4/99.05 1999		HKTA 2028 HKTA 2029	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s
VCCI V-4/99.05 1999 Telecommunications Telecommunications Registration; General test 1 power (metallic and longitudinal); Frequency m		HKTA 2028	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation
VCCI V-4/99.05 1999 Telecommunications Telecommunications Registration; General test 1 power (metallic and longitudinal); Frequency m	Instruction for Test Conditions for Requirement under Test methods; Lightning surge; Drop testing; Balance testing; Signal easurements; Pulse templates; Leakage testing; Impedance	HKTA 2028 HKTA 2029 TBR 1 : 1995	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCTTT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCTTT Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s
VCCI V-4/99.05 1999 **Telecommunications** Telecommunications Registration; General test power (metallic and longitudinal); Frequency metasting; Hearing Aid Compatibility testing (exclusions).	Instruction for Test Conditions for Requirement under Test methods; Lightning surge; Drop testing; Balance testing; Signal easurements; Pulse templates; Leakage testing; Impedance uding volume control); Protocol analysis and Jitter testing. <u>Title</u> Connection of terminal equipment to the telephone Terminal Equipment network. Analog and Digital Equipment. TCB Scope	HKTA 2028 HKTA 2029	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit swite a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signaling rates up to 1
VCCI V-4:99.05 1999 **Telecommunications** Telecommunications Registration; General test power (metallic and longitudinal); Frequency metasting; Hearing Aid Compatibility testing (excluted testing and testing). **Telecom Standards**	Instruction for Test Conditions for Requirement under Test methods; Lightning surge; Drop testing; Balance testing; Signal easurements; Pulse templates; Leakage testing; Impedance uding volume control); Protocol analysis and Jitter testing. Title Connection of terminal equipment to the telephone Terminal Equipment network. Analog and Digital Equipment. TCB Scope Cl. Specification for terminal equipment, terminal systems,	HKTA 2028 HKTA 2029 TBR 1 : 1995	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data signaling rate up to, and including, 1 984 kbit/s Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for
VCCI V-4:99.05 1999 **Telecommunications** Telecommunications Registration; General test power (metallic and longitudinal); Frequency metating; Hearing Aid Compatibility testing (exclutelecom Standards FCC 47 CFR Part 68 Telephone	Instruction for Test Conditions for Requirement under Test methods; Lightning surge; Drop testing; Balance testing; Signal easurements; Pulse templates; Leakage testing; Impedance uding volume control); Protocol analysis and Jitter testing. Title Connection of terminal equipment to the telephone Terminal Equipment network. Analog and Digital Equipment. TCB Scope C1.	HKTA 2028 HKTA 2029 TBR 1 : 1995	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data signaling rate up to, and including, 1984 kbit/s Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signaling rates up to 1920 kbit/s ultilizing interfaces derived from CCITT Recommendations

TBR 3: 1995 + Amdt: 1997	Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN	IEC 60950 2000 EN 60950 1997, 1998, 2000	Safety of information technology equipment Safety of information technology equipment, including
TBR 4: 1995 + Amdt: 1997	using ISDN basic access Integrated Services Digital Network (ISDN); Attachment	IEC 60950-1 2001 UL 60950-1 2003	Electrical business equipment.
	requirements for terminal equipment to connect to an ISDN using ISDN primary rate access	CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03	
TBR 012 : 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Attachment requirements for terminal	AS/NZS 3260 1993 AS/NZS 3260 Supp 1 1996	Approval and test specification – Safety of information technology equipment including electrical business Equipment. Approval and test specification – Safety of information technology
TBR 013 : 1996	equipment Business TeleCommunications (BTC); 2 048 kbit/s digital	710/1120 3200 Supp 1 1990	equipment including electrical business equipment – Alphabetical reference index to IEC 950 (Supplement to AS/NZS 3260:1993)
	structured leased lines (D2048S); Attachment requirements for terminal equipment interface	ACA TS 001 1997	Australian Communications Authority – Safety requirements for customer equipment.
TBR 21 : 1998	Terminal Equipment (TE); Attachment requirements for pan- European approval for connection to the analogue Public	UL 1459 1995 IEC 1010-1 1990	Telephone Equipment Safety requirements for electrical equipment for measurement, control
	Switched Telephone Networks (PSTNs) of TE (excluding TE supporting the voice telephony service) in which network	IEC 61010-1 1993 EN 61010-1 1993, 2001	and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control
	addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signaling	IEC 61010-1 2001 UL 61010B-1 2003	and laboratory use, Part 1: General requirements.
TBR 24 : 1997	Business TeleCommunications (BTC); 34 Mbit/s digital Unstructured and structured leased lines (D34U and D34S);	UL 3101-1 1993 CAN/CSA 1010-1 1999 (Including AM 2	
	Attachment requirements for terminal equipment interface	UL 3111-1 1996 UL 3121-1 1995	Electrical measuring and test equipment. Part 1: General requirements.
Australia TS 002 : 1997	Analogue Interworking and Non interference Requirements for	IEC 60601-1 1995 EN 60601-1 1995 (Including AM 2)	Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment
WW 014 100W	Customer Equipment Connected to the Public Switched Telephone Network	UL 2601-1 1997 IEC 60065 1998, 2000	Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety requirements
TS 016 : 1997 TS 031 : 1997	General Requirements for Customer Equipment Connected to Hierarchical Digital Interfaces Requirements for ISDN Basic Access Interface	ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 3250 1995	Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test
TS 031 : 1997 TS 038 : 1997 AS/ACIF S043.2:2001	Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for connection to a	AS/NZS 60065 2000	Austranamente Zearand Standard – Approvar and rest Specification – Mains operated electronic and related Equipment for household and similar general use
PROFESCIE 3043.2.2001	Requirements for Customer Equipment for connection to a metallic loop interface of a Telecommunications Network – Part 2 Broadband	Canadian C22.2 No. 1-94 (1-98) 1998	nousenoid and similar general use Audio, video and similar electronic equipment. Consumer and 1994, commercial products
Product Safety		EN 60065 1994	Safety requirements for main operated electronic and related apparatus for household and similar general use.
General test methods; Input tests; Electric stren Accessibility tests; Energy Hazard measurement	ngth tests; Impulse tests; Permanency of marking tests; nts; Capacitor discharge tests; Humidity conditioning; Earthing	IEC 60825 1990	Radiation safety of laser products, equipment Classification, requirements and user's guide
tests; Limited power source measurements; Sta measurements; Leakage current tests; Transfor	ibility tests; Steel ball tests; Lithium Battery Reverse Current mer abnormal tests; Telecom leakage tests; Over voltage/power	EN 60825-1 1994 IEC 60825-1 2001	Safety of laser products Part 1: equipment Classification, requirements and user's guide.
cross tests (excluding x-ray tests).		IEC 60825-2 2000-5	Safety of laser products – Part 2: Safety of optical communication systems
Product Safety Standards	<u>Title</u>	IEC 60825-4 1997-11 IEC 60335-1 1995	Safety of laser products – Part 4: Laser guards Safety of household and similar electrical appliances
Specific Product Safety Standards IEC 950 1991	Safety of information technology equipment including Includes Amendments 1, 2, 3, and 4 electrical business equipment.	(Including AM2 – 1997 & AM 12 – 1997 EN 60335-1 2001 UL 60335-1 1998) Part 1: General requirements
UL 1950 1998	Amenaments 1, 2, 3, and 4 electrical business equipment. Safety of information technology equipment, including lectrical business equipment.	CAN/CSA E335-1 1994	
CSA C22.2 No.950-95 UL 60950 2000	Safety of Information Technology Equipment (UL 1950) Safety of information technology equipment		
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UL 61010A-1 : 2002	Electrical equipment for laboratory use; part 1: General		
EN 61010-1 : 2001	requirements Safety requirements for electrical equipment for measurement,		
AS/NZS 60950 : 2000	control, and laboratory use - Part 1: General requirements Safety information technology equipment		
Environmental ²			
Environmental Standards GR-63-CORE	<u>Title</u> NEBS Requirements: Physical Protection		
ETS 300 019 (vibration up to 1000Hz)	Environmental conditions and environmental tests For telecommunications equipment		
² Environmental testing is performed at the sate	ellite facility located at 168 Ayer Rd, Littleton, MA 01460		
² Environmental testing is performed at the sate (A2LA Cert. No. 1627-01) 9/22/05	ellite facility located at 168 Ayer Rd, Littleton, MA 01460 Page 11 of 11		