

Test Report

Report No EH0043-3

Client Ohio Willow Wood

15441 Scioto Darby Rd. Mt. Sterling, OH 43143

Phone 800-553-3445

FRN 0016158792

Model OWWCO Transceiver Module PN.6221020 V1.1X

FCC ID U3V6221020

Equipment Type Low Power Communications Device Transceiver DXT

Evan Gould - Compliance Engineer

Results As detailed within this report

Prepared by Wan Joseph

Authorized by

Michael Buchholz – EMC Manager

Issue Date | 12/11/07

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

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



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Summary

This test report supports a Class II Permissive Change of a transmitter operating with a Limited Modular Approval pursuant to 47 CFR 15.249. The original approval of the Ohio Willow Wood Radio Module (Model 6221020 V1.1X) contained the following statement:

"According to the applicant the device [EUT] will always be powered by a device deriving power from a battery, therefore AC line conducted testing is not required."

This implies that the module's status of approval is conditional upon limiting it's installation to battery powered devices. That condition of implementation must be removed from the Limited Modular Approval.

AC Line Conducted Emissions testing was performed on the Ohio Willow Wood Four Hole Vacuum Pump, which contains FCC ID U3V6221020.

Statement of Conformity

The Ohio Willow Wood Radio Module (Model 6221020 V1.1X) has been found to comply with the line conducted emissions limits specified in 47 CFR 15.207.

Test Methodology

Conducted emission testing was performed according to the procedures in ANSI C63.4 (2003). The testing was performed using a 50 μ H/50 Ω Line Impedance Stabilization Network. The device's performance was investigated in the range 0.15 – 30 MHz.



EUT Configuration

EUT Configuration

Work Order: H0043

Company: Ohio Willow Wood Co Company Address: 15441 Scioto Darby Rd.

Mt. Sterling, OH 43143

Contact: Mike Haynes Person Present: Mike Haynes

MN SN

1

EUT: 6221020 V1.1X

EUT Description: OWWCO Radio Module

EUT Max Frequency: 2.40-2.48GHz

Support Equipment:MNSNFour Hole Vacuum Pump
Charge IndicatorLLV-01040
LLV-01010732952260
PN-1988-B

GlobTek Inc Medical p/s GTM41060-1505 WR9QA2600A00-N-MED

EUT Cables:QtyShielded?LengthFerritesIndicator to Vacuum1No1.5ftNoneAdaptor to Indicator1No26ft1 Molded

Unpopulated EUT Ports: Qty Reason

None

Software / Operating Mode Description:

2.4GHz Direct Sequence Hopping Low Power Radio Transceiver.

Test Equipment Used

		Rev. 26-NOV-2007							
SPECTRUM ANALYZERS / RECEIVERS	Range	MN	MFR	S	N	ASSET	Ca ⁻	Γ	CALIBRATION DUE
YELLOW	9kHz-2.9GHz	8594E	Agilent	3523A	01958	00100	1		08-JUN-2008
LISNS/MEASUREMENT PROBES	RANGE	MN		MFR	SN	I	ASSET	Сат	CALIBRATION DUE
YELLOW-BLACK	9kHz-50MHz	8012-50-R-24-	BNC	SOLAR	04110	357	00248	ı	24-MAY-2008
CONDUCTED TEST SITES (MAIN	is / Telco)	FCC CODE		IC CODE	V	CCI COD	Ξ	Сат	CALIBRATION DUE
EMI 1		93448		N/A	C-1	801, T-2	68	III	NA

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



Conducted Emissions Measurements LIMIT

Frequency of	Quasi-peak	Average limit
emission (MHz)	limit (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 frequency.

Note: If peak measurements meet the Average limit, then Average measurements are not required.

MEASUREMENTS

AC Mains	AC Mains Conducted Emissions Curtis-Straus LLC											aus LLC
Date: 29-Nov-07 Company: Ohio Willow Wood											Work Order:	H0043
Engineer: Evan Gould EUT Desc: OWWCO Radio Module										Test Site:	EMI 1	
				Four Hole	Vacuum Pump	o, model LL\	/-01040, s/n					
Measurement Do		Yellow-Black	k LISN					EUT O	perating Voltag			
Range:	0.15-30MHz								Spectr	um Analyzer:	Yellow	
					Impedance	-	-	FCC/0	CISPR B	FCC/0	CISPR B	
	Q.P. Rea	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	29.8	31.3	29.8	31.3	20.6			66.0	-14.1	56.0	-4.1	Pass
4.33	5.1	4.0	5.1	4.0	20.1			56.0	-30.8	46.0	-20.8	Pass
9.48	6.0	2.4	6.0	2.4	20.1			60.0	-33.9	50.0	-23.9	Pass
13.80	9.3	1.4	9.3	1.4	20.1			60.0	-30.6	50.0	-20.6	Pass
17.50	12.0	4.1	12.0	4.1	20.2			60.0	-27.8	50.0	-17.8	Pass
23.10	8.3	4.3	8.3	4.3	20.3			60.0	-31.4	50.0	-21.4	Pass
Tabl	le Result:	Pass	by	-4.10	dB				Wo	orst Freq:	0.15	MHz

Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty (ETSI)
Radiated Emissions (30-1000MHz)	5.6dB	N/A
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions	3.9dB	N/A
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency	8.2 x 10 ⁻⁸	1 x 10 ⁻⁷
RF power, conducted	0.7dB	0.75dB
Maximum frequency deviation: Within 300Hz and 6kHz of audio frequency Within 6kHz and 25kHz of audio frequency	• 1.2% • 0.1dB	5%3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	0.7dB	3dB
Conducted emission of receivers	0.7dB	1dB
Radiated emission of transmitter, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of transmitter, valid up to 80GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	5.6dB	6dB
Radiated emission of receiver, valid up to 80GHz	5.6dB	6dB
RF level uncertainty for a given BER	0.7dB	1dB
Humidity	2.31%	5%
Temperature	0.6°C	1.0°C
Time	0.8%	10%
RF Power Density, Conducted	2.2dB	3dB
DC and low frequency voltages	1.29%	3%
Voltage (AC, <10kHz)	1.29%	2%
Voltage (DC)	0.23%	1%
The above reflects a 95% confidence level		

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.
- S. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS", "MTL", "ACTS", "MTL-ACTS" and CURTIS-STRAUS (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
- 6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
- 7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
- 8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
- 9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
- 10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
- 11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only were such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
- 12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.

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

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

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

Rev.160009121(2)_#684340 v13CS

A2LA Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025-1999

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

Valid until: November 30, 2007

Certificate Number: 1627.01

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

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

Test Type	Test Method(s)
Emissions	
Radiated and Conducted Emissions	FCC 47 CFR Parts 15 & 18; C63 4; CISPR 22; EN55022; SABS CISPR 22; AS/NZS CISPR 22; AS/NZS 3548; Canada ICES- 003; CNS13438; KN 22 (RRL No. 2005-82; September 29; 2005); CISPR 11; EN 55011; SABS CISPR 11; AS/NZS CISPR 11; AS/NZS 2064; Canada ICES-001; CNS13803; CISPR 13; EN 55013; SABS CISPR 13; AS/NZS CISPR 13; AS/NZS 1053; CISPR 14-1; EN 55014-1; SABS CISPR 14; AS/NZS CISPR 14; AS/NZS 1044; CNS 13439; CISPR 15; EN 55015; GR-1089- CORE: CSA C108.8-M1983;
Harmonics	EN 61000-3-2; AS/NZS 61000.3.2
Flicker	EN 61000-3-3; AS/NZS 61000.3.3

I Note: This accreditation covers testing performed at the laboratory listed above and the satellite facility located at 168 Ayer Rd, Littleton, MA 01460 and, for test types marked with an asterisk, at other sites as defined in "A2L4 specific criteria for the accreditation of site testing and site calibration laboratories."

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

Family Product or Industry Specific Specifications	GR-1089-CORE; GR-78-CORE (ESD)
including emissions and/or immunity	EN50081-1: EN50081-2: EN50082-2: EN50082-1:
including emissions and/or immunity	EN30081-1; EN30081-2; EN30082-2; EN30082-1; EN 61000-6-1; EN 61000-6-2; EN 61000-6-3;
	EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4; EN 50091-2; EN 55024; CISPR 24
	EN 55103-1; EN 55103-2; EN 61326; EN 61547;
	EN 55103-1; EN 55103-2; EN 61326; EN 61547; EN 50130-4; EN 50083-2; EN 60601-1-2;
	EN 50130-4; EN 50083-2; EN 60601-1-2; EN 60601-2-2; EN 60601-2-24; EN 60601-2-32;
	EN 60601-2-2; EN 60601-2-24; EN 60601-2-32; EN 60601-2-38; EN 60601-2-47; IEC 1800-3; EN
	61800-3; EN 55020; CISPR 20; EN 60555 Part 2;
	EN 60555 Part 3; ETS 300 386-1; EN 300 386-2;
	EN 300 386, ETS 300 132-1; ETS 300 132-2; EN
	60669-2-1; AS/NZS 3200.1.2; CNS 13783-1; ETR
Radiocommunications	283; C62.41
	This ago ago 4 This ago ago 2 This ago ago 4 This
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 Ra	dio Standards	RTTE 01 (DGT-Taiwan);	
FCC Star	ndards and Test methods Support TCB S	Status	
FCC Scop	pe A – Unlicensed Radio Frequency Device	S	
A1	1. 47 CFR Parts 11, 15 and 18		
	2. FCC MP-5,		
	3. ANSI C63.4-2003,		
A2	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
A3	1. 47 CFR Part 15,		
	2. ANSI C63.17-1998,		
	3. ANSI C63.4-2003,		
A4	1. 47 CFR Part 15,		
	2. ANSI C63.4-2003,		
FCC Scop	pe B – Licensed Radio Service Equipment		
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, a	nd 97	
	2. ANSI/TIA-603-C (2004)		
В3	1. 47 CFR Parts 2, 80, and 87		
	2. ANSI/TIA-603-C (2004)		
B4	1. 47 CFR Parts 2, 21, 74, and 101		
	2. ANSI/TIA-603-C (2004)		

Country Specific Standards and Other	
ITU EMC Standards	K.20; K.21; K.41; K.44
Swedish EMC Standards	BAKOM 3336.3
South African EMC Standards other then CISPR	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	VCCI V-3, VCCI V-4

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

Telecom Standards Title

North American standards Connection of terminal equipment to the telephone network. Analog and Digital Equipment. TCB Scope C1. Specification for terminal equipment, terminal systems, FCC 47 CFR Part 68 Telephone Terminal Equipment CS-03 Issue 9 Network protection devices, connection arrangements and hearing aids compatibility.
Bulletin Part 68 Rationale and Measurement Guidelines (Feb 1998)
Telecommunications Telephone Terminal TIA/EIA TSB31-B 1998 TIA-968-A, A1, A2, A3 Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network

Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry T1.TRQ.6-2001 Australia standards AS/ACIF S002-2001

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

Part 2: Broadband

Part 3: DC, Low Frequency AC and Voice band International standards ITU-T G.703

Physical/electrical characteristics of hierarchical Digital interfaces Hong Kong standards

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

HKTA 2014 Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T Recommendations

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Telecom Standards			
	<u>Title</u>	European standards (cont'd)	
HKTA 2028	Network connection specification for connection of	TBR 21: 1998	Terminal Equipment (TE); Attachment requirements
	CPE to the PTNs in Hong Kong using digital leased		For pan-European approval for connection to the
HKTA 2029	circuits at data rate of 1544 kbit/s Network connection specification for connection of		Analogue Public Switched Telephone Networks
HK1A 2029	CPE to the PTNs in Hong Kong using digital leased		(PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if
	circuits at data rate of 2048 kbit/s		provided, is by means of Dual Tone Multi Frequency
HKTA 2030	Network Connection Specification for Connection of		(DTMF) signaling
	Customer Premises Equipment (CPE) to the Public	TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s
	Telecommunications Network (PTN) in Hong Kong using		Digital Unstructured and structured leased lines
	Digital Leased Circuits at nx64 kbit/s		(D34U and D34S); Attachment requirements for
HKTA 2031	Network Connection Specification for Connection of		Terminal equipment interface
	Customer Premises Equipment (CPE) to the Public	Taiwan standards (DGT)	
	Telecommunications Network (PTN) in Hong Kong using	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and
HKTA 2032	Digital Leased Circuits below 64 kbit/s Network Connection Specification for Connection of	ID0002	POTS Splitter Technical Specifications
HK1A 2032	Customer Premises Equipment (CPE) to the Public	IS6100	DS1 Equipment Type Approval Guidelines ISDN Terminal Equipment Technical Specifications
	Telecommunications Networks in Hong Kong using	PSTN01 (non-voice only)	Technical Specifications for Terminal Equipment for
	Asymmetric Digital Subscriber Lines (ADSL) based on ITU-T	1511(01 (non toice only)	Connection to Public Switched Telephone Network
	Recommendation G.992.1	New Zealand standards	· · · · · · · · · · · · · · · · · · ·
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	•	Analogue Lines
	Telecommunications Networks in Hong Kong using	PTC 217	Requirements for Bandwidth Management Devices
	Splitterless Asymmetric Digital Subscriber Lines (ADSL)	TNA 117	Telecom 2048 kbit/s Standard Network Interface
	based on ITU-T Recommendation G.992.2	PTC 270	Interim arrangements for ADSL CPE
European standards TBR 1: 1995	A +	Sin Stondondo	
1BK 1: 1993	Attachment requirements for terminal equipment to Be connected to circuit switched data networks and	Singapore Standards IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Leased circuits using a CCITT Recommendation	IDA 13 ADSE	Subscriber Line (Full-rate ADSL) Modems
	X.21 interface, or at an interface physically,	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital
	functionally and electrically compatible with CCITT	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 on
	signaling rate up to, and including, 1 984 kbit/s	1	hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
TBR 2: 1997	Attachment requirements for Data Terminal	1	kbit/s
	Equipment (DTE) to connect to Packet Switched	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	Public Data Networks (PSPDNs) for CCITT	1	Equipment to Integrated Services Digital Network (ISDN)
	Recommendation X.25 interfaces at data signaling	ID A TG IGDN 2	Basic Access
	rates up to 1 920 kbit/s utilizing interfaces derived	IDA TS ISDN 2	Type Approval Specification for connection of Terminal Equipment to Integrated Services Digital Network (ISDN)
TBR 3: 1995 + Amdt : 1997	from CCITT Recommendations X.21 and X.21 bit Integrated Services Digital Network (ISDN);	1	Equipment to Integrated Services Digital Network (ISDN) Primary Rate Access (PRA)
1BK 3. 1993 + Allidt . 1997	Attachment requirements for terminal equipment to	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
	connect to an ISDN using ISDN basic access	ibit 15 1511 (non voice omy)	Equipment to Public Switched Telephone Network (PSTN)
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	South Africa standards	-1-F ()
	Attachment requirements for terminal equipment to	TE-001 (non-voice only)	Standard for Telecommunication Line Terminal Equipment
	connect to an ISDN using ISDN primary rate access		(TLTE) for Connection to the Public Switched Telephone
TBR 012: 1993 + Amdt : 1996	Business Telecommunications (BT); Open Network		Network (PSTN)
	Provision (ONP) technical requirements; 2 048 kbit/s		
	digital unstructured leased line (D2048U) Attachment		
TBR 013: 1996	requirements for terminal equipment Business TeleCommunications (BTC); 2 048 kbit/s		
1BK 013: 1990	digital structured leased lines (D2048S); Attachment		
	requirements for terminal equipment interface		
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Product Safety		Product Safety Standards	<u>Title</u>
General test methods:		IEC 60825-1 2001	Classification, requirements and user's guide.
Power input*, Permanence of marking*, Acces	sibility*, Permissibly limits*, Energy hazard	IEC 60825-2 2000-5	
			Safety of laser products – Part 2: Safety of optical
measurement*, SELV circuits*, TNV limits*,	Limited current*, Capacitor Discharge / voltage	IEC 60825 4 1007 11	communication systems
measurement*, SELV circuits*, TNV limits*, l limitation*, Ring signal*, Humidity conditioning	ng*, Creepage / Clearance / Distance thru Insulation (excluding	IEC 60825-4 1997-11	communication systems Safety of laser products – Part 4: Laser guards
measurement*, SELV circuits*, TNV limits*, l limitation*, Ring signal*, Humidity conditionin CTI)*, Limited power measurement*, Ground	ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*,	21 CFR 1040.10	communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products
measurement*, SELV circuits*, TNV limits*, l limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str	ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*,	21 CFR 1040.10 IEC 60335-1 1995	communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
measurement*, SELV circuits*, TNV limits*, l limitation*, Ring signal*, Humidity conditioni CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp	ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ress*, Battery reverse current*, Ball pressure*, Leakage current*, vulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm	21 CFR 1040.10	communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products
measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal**, Humidity conditionin CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*. Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*,	ng*. Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, bulse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*,	21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998	communication systems Safety of laser products – Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances
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measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humdity condition CTI)*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Wa Functionality*, Protective impedance abnormal supply abnormal*, Cooling abnormal*, Heating Product Safety Standards UL 60950 2000 IEC 60950 12001 IEC 60950-1 2001 IEC 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001	ng*. Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*. Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, alule*, Overvoltage*, Acoustic sound pressure*, L30mm / 20mm ed rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray)*, Voltage surge*, 1*, Capacitor short circuit abnormal*, Output abnormal*, Multig device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for Medical electrical equipment for measurement, control and Laboratory use, Part 1: General requirements.	21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60601-1-1: 2000	communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment Part 1: General Requirements for Safety - Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements for Safety - Section 1-1. Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Squipment - Part 1: General Standard: Safety Requirements For Medical Electrical Systems
measurement*, SELV circuits*, TNV limits*, limitation*, Ring signal*, Humidity condition CTD*, Limited power measurement*, Ground Applied force*, Steel sphere impact*, Mold str Component abnormal*, Electric strength*, Imp flame*, Needle flame*, Hot flaming oil*, Lock Torque*, Insulation resistance*, Sound level*, Transformer shorts/overloads*, Rain test*, Variantenia, Protective impedance abnorma supply abnormal*, Cooling abnormal*, Heating Product Safety Standards Product Safety Standards Specific Product Safety Standards UL 60950 2000 IEC 60950.1 2001 UE 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-103 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 2001 UL 61010-1 1999 (Including AM 2) IEC 60601-1 1995	ng*, Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*, Ground continuity*, Temperature*, Stability*, ess*, Battery reverse current*, Ball pressure*, Leakage current*, subse*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm ed roto/motor armature*, Vibration, Bump, Drop*, Strain relief*, Handle loading*, Liquid overflow*, Spillage*, Liquid leakage*, Il mount*, Laser radiation (excluding x-ray*), Voltage surge*, 1*, Capacitor short circuit abnormal*, Output abnormal*, Multig device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment, including Electrical business equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Medical electrical equipment. Part 1: General requirements for safety.	21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010 -1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000	communication systems Safety of laser products - Part 4: Laser guards Performance standard for laser products Safety of household and similar electrical appliances Part 1: General requirements Electrical equipment for laboratory use; part 1: General requirements Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Safety information technology equipment Information Technology Equipment - Safety - Part1: General Requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements for Safety Medical Electrical Equipment - Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety
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Creepage / Clearance / Distance thru Insulation (excluding Bond/Earthing*. Ground continuity*. Temperature*, Stability*. ess*. Battery reverse current*, Ball pressure*. Leakage current*, subse*. Overvoltage*. Acoustic sound pressure*. Leakage current*, andse*. Overvoltage*. Acoustic sound pressure*. 130mm / 20mm ed roto/motor armature*, Vibration, Bump. Drop*. Strain relief*, Handle loading*. Liquid overflow*, Spillage*. Liquid leakage*. Il mount*, Laser radiation (excluding x-ray*). Voltage surge*. Pacacitor short circuit abnormal*, Output abnormal*, Multig device abnormal*, Interlock abnormal*, Rigidity*, Cleaning* Title Safety of information technology equipment Safety of information technology equipment Safety of information technology equipment. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Safety requirements for electrical equipment for measurement, control and laboratory use, Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements. Electrical equipment for laboratory use Part 1: General requirements for safety. Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety requirements Audio/video and similar electronic apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use. Audio, video and similar electronic equipment. Consumer and commercial products Safety requirements for main operated electronic and related apparatus for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide	21 CFR 1040.10 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994 UL 61010A-1: 2002 EN 61010-1: 2001 AS/NZS 60950: 2000 EN 60950-1: 2001 AS/NZS 60950.1: 2003 UL 61010-1: 2004 UL 60601-1: 2003 IEC 60601-1-1: 2000 EN 60950-1: 2001 UL 60605: 2003 IEC 60605: 2003 IEC 60065: 2003 IEC 60065: 2002 EN 60065: 2002 EN 60065: 2002	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 to the Safety - Safety information Technology Equipment - Safety - General requirements Information Technology Equipment - Safety - General requirements Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements Medical Electrical Equipment, Part 1: General Requirements For Safety 1: Collateral Standard: Safety Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Medical Electrical Equipment - Part 1: General Requirements For Medical Electrical Systems Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio, Video and Similar Electronic Apparatus - Safety Requirements Audio,



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Environmental Simulation				
Test Technology Accessibility® Acoustic Noise® Airborne Contaminants Altitude Cold Start® Drip Drops®	Test Standard IEC 60529 GR-63-CORE Sec 4.6 GR-63-CORE Sec 4.5 GR-63-CORE Sec 4.1.3 ETS 300 019 IEC 60529 ETS 300 019	Supporting Standards IP-0x thru IP-6x MFG & Hygroscopic Dust IEC 60068-2-1 IP-x1 & IP-x2 IEC 60068-2-32	Note 1. For standards or methods listed on the scope of accreditation without a revision date, expected to be competent in the use of the current version within one year of the date of publis standard test method or upon the date specified by the standard test method originator when the implementation authority. When a superseded standard or method is required for an accredited will include the superseded date/version. For those that support the TCB/CB status of the orga as a certifier on behalf of the FCC or IC the expectation is currency within 30 days of Federal publication of changes for FCC and 30 days after IC website update. This note shall not be co Accreditation Body implication to adopt a more current standard than is required in a regulative	ication of the the originator has d test, the scope anization acting I Register onstrued as an
Dust Firearms Resistance Testing Fire Resistance	GR-63-CORE Sec 4.3 IEC 60529 GR-487 ANSI.T1.319	IP-5x & IP-6x	the legal requirement) which is adopted by the lab under their responsibility. * On-site test service is available for this technology, test, or method.	
Heat Dissipation* Illumination Operational Temperature &	GR-63-CORE Sec 4.2 GR-63-CORE Sec 4.1.4 GR-63-CORE Sec 4.7	Fire & Needle Flame		
Humidity (OpTH)*	ETS 300 019	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-56		
Salt Fog & Spray Spatial* Spraying-Splashing	GR-63-CORE Sec 4.1.2 ASTM B117 GR-63-CORE Sec 2.0 & 3.0 IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-14 IEC 60068-2-30 IEC 60068-2-56		
Vibration	GR-63-CORE Sec 4.1.1 ETS 300 019	IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-32 IEC 60068-2-37 IEC 60068-2-57		
Water Immersion Water Jet	GR-63-CORE Sec 4.4 IEC 60529 IEC 60529	Earthquake, Office & Transportation IP-x7 & IP-x8 IP-x5 & IP-x6		
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