Curtis-Straus Test Report

Report No	EF0916-1
Client	Enterasys Networks, Inc. 50 Minuteman Road Andover, MA 01810
Phone	978-684-1009
FRN	0006916761
	Class II Permissive Change
Model FCC ID	RBT-4102 QXO-RBT4102
Equipment Type Equipment Code	Digitally Modulated; Unlicensed National Information Infrastructure DTS and NII
Results	As detailed within this report
Prepared by	Evan Jamle Evan Gould – Test Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date	4/12/06
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.



Curtis-Straus LLC • 527 Great Road • Littleton, MA • TEL (978) 486-8880 • FAX (978) 486-8828

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Summary

This test report supports a Class II Permissive Change of a transmitter operating pursuant to 47 CFR 15.247 and 15.407. The product is the Enterasys Networks Multi-Channel Access Point (model #: RBT-4102). It is a transmitter that operates in the ranges 2400-2483.5MHz, 5.15-5.35GHz, and 5.725-5.850GHz. The change is the addition of five external antenna options. The antenna models are listed below:

RBTES-BG-M08M	2.4GHz	8dBi
RBTES-BG-P18M	2.4GHz	18dBi
RBTES-BG-S1490M	2.4GHz	14dBi
RBTES-AM-M10M	5.15-5.35GHz	10dBi
RBTES-AW-S1590M	4.9-6.0GHz	16dBi

Radiated emissions testing was performed over the frequency range of each antenna. It was found that Channels 1, 2, 3, and 11 must be dropped in order for the EUT to accommodate all of these antennas and still pass band edge requirements.

Test Methodology

Radiated emissions testing is performed according to the procedures specified in ANSI C63.4 (2003). Emissions were maximized by rotating the device around three orthogonal axes as well as varying the test antenna's height and polarity.

Frequency range investigated: 1GHz – 8GHz

Measurement distance: 3m



EUT Configuration

	EUT	Configur	ation		
Work Order: Company Company Address: Contact: Person Present:	EF0916 Enterasys I 50 Minutem Andover, N Jon Ballew None	Networks, In nan Road IA 01810	С.		
	MN		SN		
EUT	RBT-4102		1		
EUT Description: EUT Max Frequency:	Wireless A 5.825GHz	ccess Point			
Support Equipment:	MN		SN		
IBM Thinkpad IBM Thinkpad Enterasys Matrix Hub	Type 2373 Type 2373 E1		99-RCM82 99-GRVGD 		
EUT Cables:	Qty	Shielded?	Length	Ferrites	
Ethernet Antenna Power	1 1 1	No Yes No	10m 5m 2m	None None 1 Molded	
Unpopulated EUT Ports:	Qty	Reason			
DB9 Serial	1	Setup/Diag			
Software / Operating Mode	Description				
EUT was communicating at fu using the Brix software. Also and power level.	II power with utilized some	a wireless o e diagnostic	card in one of software to co	the IBM Thinkpads ontrol both channel	



Radiated Emissions Measurements

Each antenna was tested in and around its passband for spurious emissions as indicated in the tables below. High and low bandedges were also measured. With the exception of the first table below (RBTES-BG-M08M antenna), no spurious emissions within 10dB of the limit were found.

Radiated	d Emissi	ons Tab	ole					Curtis-S	traus LLC
Date:	24-Feb-06	27-Feb-06		Company:	Enterasvs		v	Vork Order:	F0916
Engineer:	Evan Gould			EUT Desc:	RBT-4102				
	Freque	ency Range:	1-5GHz			Measureme	nt Distance:	3 m	
Notes:	RBTES-BG-N TX and RX m	M08M 2.4GH	z 8dBi omnidir ive	ectional					
Antenna			Preamp	Antenna	Cable	Adjusted	4	17 CFR 15.2	09
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)
Hav	1056.1	29.3	17.7	25.5	2.1	39.2	54.0	-14.8	Pass
HIGH BAND ED	GE								
Ch.10; Power se	etting = 16; 54N	lbps							
Vpk	2483.5	47.7	20.0	30.3	3.2	61.2	74.0	-12.8	Pass
Vav	2483.5	22.6	20.0	30.3	3.2	36.1	54.0	-17.9	Pass
Ch.10; Power se	etting = 16; 6Mb	ops							
Vpk	2483.5	52.7	20.0	30.3	3.2	66.2	74.0	-7.8	Pass
Vav	2483.5	28.7	20.0	30.3	3.2	42.2	54.0	-11.8	Pass
LOW BAND ED	GE								
Ch.2; Power set	tting = 18; 6Mbp	os							
Vpk	2390.0	57.5	20.1	30.1	3.1	70.6	74.0	-3.4	Pass
Vav	2390.0	30.1	20.1	30.1	3.1	43.2	54.0	-10.8	Pass
Table	e Result:	Pass	by	-3.4	dB	We	orst Freq:	2390.0	MHz
Test Site:	"A"	Pre-Amp:	Yel-Blk	Cable:	EMIR-HIGH 7	Analyzer:	Orange	Antenna:	Black Horn

Radiated	d Emissi	ons Tab	ole					Curtis-S	traus LLC
Date:	24-Feb-06			Company:	Enterasys		٧	Vork Order:	F0916
Engineer:	Evan Gould			EUT Desc:	RBT-4102				
	Freque	ncy Range:	1-5GHz			Measureme	nt Distance:	3 m	
Notes:	RBTES-BG-S	61490M 2.4G	Hz 14dBi						
	TX and RX m	odes are act	ive						
Antenna			Preamp	Antenna	Cable	Adjusted	4	7 CFR 15.2	09
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)
HIGH BAND EDG	E								
Ch.10; Power sett	ing = 16; 6Mbps								
Vpk	2483.5	59.3	20.0	30.3	3.2	72.8	74.0	-1.2	Pass
Vav	2483.5	34.1	20.0	30.3	3.2	47.6	54.0	-6.4	Pass
LOW BAND ED	GE								
Ch.4; Power set	ting = 19; 6Mbp	S							
Vpk	2390.0	55.8	20.1	30.1	3.1	68.9	74.0	-5.1	Pass
Vav	2390.0	32.3	20.1	30.1	3.1	45.4	54.0	-8.6	Pass
Table	e Result:	Pass	by	-1.2	dB	We	orst Freq:	2483.5	MHz
Test Site:	"A"	Pre-Amp:	Yel-Blk	Cable:	EMIR-HIGH	Analyzer:	Orange	Antenna:	Black Horn





Radiated	l Emissi	ons Tab	ole					Curtis-S	traus LLC
Date:	27-Feb-06			Company:	Enterasys		۷	Vork Order:	F0916
Engineer:	Evan Gould			EUT Desc:	RBT-4102				
	Freque	ncy Range:	1-5GHz			Measureme	nt Distance:	3 m	
Notos	DDTES DC		1ºdRi ontonn			Measuremen	n Distance.	5111	
Notes.	TX and RX m			a					
							1		
Antenna	Francisco	Deeding	Preamp	Antenna	Cable	Adjusted	Limit	1/ CFR 15.2	Decult
		(dRu)()	(dB)	ractor (dB/m)	(dR)	(dBu)//m)		(dB)	(Pass/Fail)
	(10112)	(00µV)	(ub)	(ub/iii)	(ub)	(ubµv/iii)	(ubµ v/m)	(ub)	(Fass/Fall)
Ch 4: Power set	ting – 10: 6Mbr	l							
Vnk	2390 0	581	20.1	30.1	31	71.5	74.0	-2.5	Pass
Vav	2390.0	32.7	20.1	30.1	3.1	45.8	54.0	-8.2	Pass
	GE	02.7	20.1	00.1	0.1	40.0	04.0	0.2	1 435
Ch.10: Power se	etting = 16: 6Mb	I DDS							
Vpk	2483.5	57.6	20.0	30.3	3.2	71.1	74.0	-2.9	Pass
Vav	2483.5	33.4	20.0	30.3	3.2	46.9	54.0	-7.1	Pass
Table	e Result:	Pass	by	-2.5	dB	We	orst Freq:	2390.0	MHz
Test Site:	"A"	Pre-Amp:	Yel-Blk	Cable:	FMIR-HIGH 7	Analyzer:	Orange	Antenna	Black Horn
Radiated	Emissi	ons Tab	ole	Company	Entorogya		V	Curtis-S	traus LLC
Dale.	ZI-FED-00			Company.	DDT 4400		v	VOIR OIGEI.	F0910
Engineer:	Evan Gould			EUT Desc:	RB1-4102				
	Freque	ency Range:	3-7GHz			Measureme	nt Distance:	3 m	
Notes:	RBTES-AM-N TX and RX m	M10M 5.15-5 nodes are act	.35GHz 10dBi o ive	omnidirectional					
Antenna			Preamp	Antenna	Cable	Adjusted	4	17 CFR 15.2	09
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)
LOW BAND EDG	E								
Ch.36; Power se	etting = 13; 6Mb	ops							
Vpk	5150.0	39.3	19.7	36.2	4.4	60.2	74.0	-13.8	Pass
Vav	5150.0	19.5	19.7	36.2	4.4	40.4	54.0	-13.6	Pass
HIGH BAND ED	GE								
Ch.64; Power se	etting = $17; 6Mb$	ops	10.0			57.0	74.0	10.0	
Vpk Vov	5350.0 5350.0	36.7	19.9	36.6	4.4	57.8	74.0 54.0	-16.2 -13.1	Pass
vav	5550.0	19.0	19.9	30.0	4.4	40.9	04.0	-13.1	Fass
Table	e Result:	Pass	by	-13.1	dB	We	orst Freq:	5350.0	MHz
Test Site:	"A"	Pre-Amp:	Yel-Blk	Cable:	EMIR-HIGH 7	Analyzer:	Orange	Antenna:	Black Horn



Radiated	l Emissi	ons Tab	le					Curtis-S	traus LLC
Date:	27-Feb-06			Company:	Enterasys		N	ork Order:	F0916
Engineer:	Evan Gould			EUT Desc:	RBT-4102				
	Freque	ency Range:	2-8GHz			Measureme	nt Distance:	3 m	
Notes:	RBTES-AW- TX and RX m	S1590M 4.9-6 nodes are act	6.0GHz 16dBi ive	sector					
Antenna			Preamp	Antenna	Cable	Adjusted	4	7 CFR 15.2	09
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)
LOW BAND ED	GE								
Channel 36; pov	ver = 13; 6Mbps	S							
Vpk	5150.0	46.7	19.7	36.2	4.4	67.6	74.0	-6.4	Pass
Vav	5150.0	25.0	19.7	36.2	4.4	45.9	54.0	-8.1	Pass
HIGH BAND ED	GE								
Channel 64; pov	ver = 17; 6Mbp	S							
Vpk	5350.0	44.2	19.9	36.6	4.4	65.3	74.0	-8.7	Pass
Vav	5350.0	24.0	19.9	36.6	4.4	45.1	54.0	-8.9	Pass
Table	e Result:	Pass	by	-6.4	dB	W	orst Freq:	5150.0	MHz
Test Site:	"A"	Pre-Amp:	Yel-Blk	Cable:	EMIR-HIGH 7	Analvzer:	Orange	Antenna:	Black Horn



Power Reductions

Due to the addition of antennas with high directional gains, and the fact that the FCC's power limit decreases by 1db for every 1dB in gain above 6dBi, the power settings must be reduced according to the following table. Reference the attached ADT reports which accompanied the original application for certification.

						Resultant
			Original	Necessary		Power
Antenna Being	Gain	Frequency	Margin	Reduction	Power Setting	Reduction
Added	(dBi)	Range (GHz)	(dB)	(dB)	Reduction	(dB)
RBTES-BG-M08M	8	2.4-2.483	5	0	N/A	N/A
RBTES-BG-S1490M	14	2.4-2.483	5	>3	18 to 15	-4.5
RBTES-BG-P18M*	18	2.4-2.483	5	0	N/A	N/A
		5.15-5.25	0.38	>0.6	17 to 6	11.0
RBTES-AW-S1590M	16	5.25-5.35	0.93	>9.0	17100	-11.0
		5.725-5.825	6.37	>3.6	20 to 14	-5.2
	10	5.15-5.25	0.38	.26	17 to 12	5.6
RDIES-AIVI-IVIIUIVI	10	5.25-5.35	0.93	>3.0		-5.6

*Note: The RBTES-BG-P18M is a Point-to-Point antenna. According to 47 CFR 15.247(c)(1)(i), the 30dBm limit must be reduced by 1dB for every 3dB of directional gain above 6dBi. Therefore, the limit becomes 26dBm, and the margin becomes 1dB: no reduction is necessary.



Test Equipment Used

								Re	v. 12-JAN-20	06	
SPECTRUM ANALYZEF RECEIVERS	rs/ F	RANGE	MN M	lfr	SN			Asset	Сат	С	ALIBRATION DUE
RED	9kH	z-1.8GHz 8	3591F H	IP	3441A03	559		00024	1		30-DFC-2006
WHITE	9kH	z-22GHz	8593E H	-iP	354711012	252		00022	i		08-MAR-2006
BLUE	9kH	z-1 8GHz 8	8591E H	iP	32234002	227		00022	i		14-DEC-2006
VELLOW/	9kH	7-2 9GHz 9	850/E H		35234010	258		00070	i		20-APP-2006
GREEN	9kHz	2 2.30112 (2503E H		3820403	S18		00100	i		20-AI 11-2000 21-NOV-2006
BLACK		12 9047		חו	27104000			00143			21-INOV-2000
	20H-			ור חו	2504005	244		00337			Out of Sorvice
	20112			ור חו	2304A032	219		00030			
TELECOM 3565A	2002			חו	1750A021	075		01067			04-FED-2000
	9612		4407B H	112	0539440	975		00394			01-DEC-2006
RENTAL E4407B	9KH2		24407B H	112	SG44210	511		Rental	1		05-JAN-2007
EMI TEST RECEIVER	R 20-		5V530 Ra	&S	827957/0	101		01098			27-001-2006
OPEN AREA TEST		FC					VCC	CODE	Сат	C.4	
		10						CODE			
SILE F		9	0440		IC 2762-F		K-1	000		(14-APR-2007
SITE I		9	3448		IC 2762-1		R-	905		1	4-AUG-2007
SITE A		y y	3448		IC 2762-A		R-	903		1	3-AUG-2007
SITE M		<u> </u>	3448		IC 2762-M		R-	904		1	9-MAR-2007
PREAMPS / ATTENUATORS / FILTERS	RANGE		MN		MFR		SI	1	ASSET	Сат	CALIBRATION DUE
Red	0.10-2000MH	lz ZFI	1000-LN		C-S		N//	4	00798		08-APR-2006
BLUE	0.01-2000MH	lz ZFI	1000-LN		C-S		N//	4	00759	11	03-AUG-2006
BLUE-BLACK	0.01-2000MH	lz ZFL	1000-LN		C-S		N//	4	00800	11	04-JAN-2007
GREEN	0.01-2000MH	lz ZFI	1000-LN		C-S		N//	4	00802	Ш	21-JUL-2006
BLACK	0.01-2000MH	lz ZFI	1000-LN		C-S		N/	4	00799	ii ii	25-AUG-2006
ORANGE	0.01-2000MH	lz 7 FI	-1000-I N		C-S		N/	4	00765	II.	28-DFC-2006
WHITE	1-20GHz	S	MC-12A		C-S		4266	643	00760	ii ii	04-AUG-2006
BROWN	1-20GHz	PM2-38-2	18-4R5-17-15-S	SFF	C-S		PI 16	555	1132	ii ii	02-DEC-2006
YELLOW-BLACK	1-20GHz	S 1112 000 2	MC-12A		C-S		5350	55	00801	ü	25-AUG-2006
HE (YELLOW)	18-26.5GHz	AFS4-18	002650-60-8P-	-4	C-S		4675	59	00758		23-AUG-2007
HIGH PASS FILTER	1-18 GHz	SP	A-F-55204	•	K&I		36	3	00817	ü	05-1AN-2008
	1-9 GHz	119 10-	4100/X <i>44</i> 00-0/	\sim	K		1	,	00816		05-14N-2008
HE 200B 50W ATTENUATOR	0.03-20.GHz		- 7010-20	0	DASTEDNACK		01		00701		10-MAV-2007
HE 300B 50W ATTENUATOR	0.03-20 GHz		7013-20		DASTERNACK		0	,	1169		10 MAY 2007
	10 100/47		1019-30		MICROWAVE		02	-	100		10-IVIA 1-2007
LOW FREQ LPF	10-100KHZ	Lż	200K1G1		CIRCUITS	44	60-01 L	DC0432	1019		OUT OF SERVICE
LOW FREQ LPF	10-100кHz	L2	200K1G1		CIRCUITS	47	77-01 [DC0434	1088	II	OUT OF SERVICE
ANTENNAS	RANGE	MN	MFR		SN	As	SET	CA T			ATION DUE
YELLOW HORN	1-18GHz	3115	EMCO		9608-4898	000	037		27-MAY-2	007(EMI	/ 05-JUN-2006 (RFI)
BLACK HORN	1-18GHz	3115	EMCO		9703-5148	000	056	I		17-JL	N-2007
ORANGE HORN	1-18GHz	3115	EMCO		0004-6123	003	390	1		09-JL	N-2007
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELINE		00758	007	758	1		26-AL	IG-2007
SMALL LOOP	9ĸHz-30MHz	PLA-130/A	ARA		1024	007	755	I.		23-FE	B-2006
LARGE LOOP	20Hz-5MHz	6511	EMCO		9704-1154	000	067	I		12-JA	N-2006
ACTIVE MONOPOLE	30Hz-30MHz	3301B	EMCO		3824	000	068	П		04-MA	Y-2006
INDUCTION COIL	50-60Hz	1000-4-8	C-S		N/A	00	778	П		26-SE	P-2007
ADJUSTABI F DIPOLF	30-1000MHz	3121C	EMCO		1370	00	757	П		18-M4	R-2007
ADJUSTABLE DIPOLE	30-1000MHz	3121C	EMCO		1371	00	756	II		18-M4	AR-2007
RE101 LOOP SENSOR	30Hz-100kHz	RE101-13 3CM	C-S		N/A	001	B18	ii		13-M/	R-2007
RS101 RADIATING LOOP	30Hz-100kHz	RS101-12CM	C-S		N/A	001	819	ü		13-M/	R-2007
RS101 LOOP SENSOR	30Hz-100ĸHz	RS101-4CM	C-S		N/A	008	B20			13-M4	R-2007
			00					••			

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. 1.1
- 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:

- 2.1Provide LABORATORY with all plans, schematics, specifications, addenda, change orders, drawings and other information for the proper performance of technical services.
- Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the 2.2 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. 2.3
- Undertake the following: 2.4
 - (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.
 - Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate the specified (b) technical services.

GENERAL CONDITIONS: Paragraph 3.

- 3.1 LABORATORY, by the performance of services covered hereunder, does not in any way assume any of those duties or responsibilities customarily vested in the CLIENT, its employees, or any other party, agency or authority.
- 3.2 LABORATORY shall not be responsible for acts of omissions of any other party or parties involved in the design, manufacture 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 HEREUNDER IS 33
- 3.4 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
- 35
- 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 3.6 extreme caution
- 3.7 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 destruction of the samples due to the act of examination, modification or testing, or technical services or circumstances beyond LABORATORY's control.
- 3.8 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.
- The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of test data. 3.9
- 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 4.1 protect it from claims under applicable Workmen's Compensation Acts and also shall maintain one million dollars of general liability
- coverage to cover claims inder applicable workinen's Compensation Acts and also shan maintain one minion donars of general nativity coverage to cover claims for bodily injury, death or property damage as may arise from the performance of its services. 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 other party's reconscibility for damages resulting from their operations or for furnicing work and materials. 4.2
- 4.3 responsibility for damages resulting from their operations or for furnishing work and materials.

Paragraph 5. PAYMENT:

5.1 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.



REPORT: EF0916-1

- 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. 5.2
- 5.3

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 U.S. 6.2
- Government. 6.3 CLIENT agrees that test results presented herein relate only to the sample tested by the LABORATORY.



A2LA Accreditation

<text></text>	SCOPE OF ACCREDITAT	ION TO ISO/IEC 17025-1999	Immunity	
<text></text>			Electrostatic Discharge (ESD) Radiated Immunity (RFI)	EN 61000-4-2; AS/NZS 61000.4.2; KN61000-4-2 EN 61000-4-3, AS/NZS 61000.4.3; KN61000-4-3
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PCC Sundards and Test methods Support TCB Status	(A2LA Cert. No. 1627.01) 3/15/06	Page 1 of 10	(A2LA Cert. No. 1627.01) 3/15/06	Page 2 of 10
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B4 1.47 CFR Parts 2, 17, 4, and 101 HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to B Telephone Network Industry Country Specific Standards and Other K.20; K.21; K.41; K.44 HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to B Telephone Network Industry South African EMC Standards BAKCOM 336.3 AstraCife standards Analogue intervorking and non-interference requirements for Clostomer Equipment for connection to the Public Switcher Telephone Network Industry Swedin EMC Standards BAKCOM 24ABS CISPR 11; SANS 213/SABS CISPR 12; SANS 213/SABS CISPR 14:2; SANS 213/SABS CISPR 15; SANS 220; SANS 214-15/ABS CISPR 14:1; SANS 220; SANS 214-15/ABS CISPR 15; SANS 220; SABS CISPR 16; SANS 220; SABS CISPR 16; SASS CISPS 20; SABS 20; SABS 20; SABS 20; SABS 20; SABS 20; SABS 20; SABS 20;	2. ANSI/TIA-603-C (2004)		T1.TRQ.6-2001	Technical Requirements for SHDSL, HDSL2,
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Hong Kong EMC Standards HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1003; HKTA 1005; HKTA 1005; HKTA 1006; HKTA 1010; HKTA 1015; HKTA 1026; HKTA 1039; HKTA 1042; HKTA 1041; HKTA 1042; HKTA 1045 International standards TUU-T G.703 Physical/electrical characteristics of hierarchical Digital interfaces Singapore EMC Standards IDA TS SRD; IDA TS EMC International standards 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 HKTA 2014 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BA) based on ITU-T Recommendations HKTA 2028 Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s (A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10		SANS 222/SABS CISPR 22		Part 1: General
HKTA 1039; HKTA 1039; HKTA 1041; Imeritational standards Singapore EMC Standards IDA TS SRD; IDA TS EMC Japanese VCCI Standards VCCI V-3, VCCI V-4 WCCI V-3, VCCI V-4 HKTA 2011 HKTA 2012; Hore the Public Standards Customer Premises Equipment (CPE) to Direct Schange Line (CL) of the Public Switched Telephone Network (PSTN) in Hong Kong HKTA 2014 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Schange Line (CL) of the Public Switched Telephone Network (PSTN) in Hong Kong HKTA 2014 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Schange HKTA 2028 Premises Read and read of 1544 kbit/s HKTA 2029 Network connection specification for connection of CPE to the PTS in Hong Kong using digital leased circuits at data rate of 1544 kbit/s (A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10	Hong Kong EMC Standards	HKTA 1006; HKTA 1007; HKTA 1008; HKTA 1010; HKTA 1015; HKTA 1026;		Part 2: Broadband Part 3: DC, Low Frequency AC and Voice band
Singapore EMC Standards IDA TS SRD: IDA TS EMC Hong Kong standards Department (CPE) to Direct Exchange Japanese VCCI Standards VCCI V-3, VCCI V-4 Hong Kong standards Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PFTN) in Hong Kong HKTA 2014 Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on ITU-T Recommendations HKTA 2028 Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s (A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10 (A2LA Cert. No. 1627.01) 3/15/06 Page 4 of 10		HKTA 1035; HKTA 1039; HKTA 1041; HKTA 1042; HKTA 1045	ITU-T G.703	Physical/electrical characteristics of hierarchical Divital interfaces
HK TA 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 HK TA 2014 Network Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) in Hong Kong using ISDN Basic Rate Access (BRA) based on TTU-T Recommendations HK TA 2028 Network Connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 1544 kbit/s (A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10	Singapore EMC Standards Japanese VCCI Standards	IDA TS SRD; IDA TS EMC VCCI V-3, VCCI V-4	Hong Kong standards	Natural Connection Seculification for Connection for
(A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10			INTA 2011	Customer Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network
(A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10			HKTA 2014	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using ISDN Decire Specification (CPE) (Content of the CPU) (CPU)
(A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10 (A2LA Cert. No. 1627.01) 3/15/06 CPE to the P1Ns in Hong Kong using digital leased circuits at data rate of 2048 kbit/s			HKTA 2028	Recommendations Network connection specification for connection of
(A2LA Cert. No. 1627.01) 3/15/06 Page 3 of 10 (A2LA Cert. No. 1627.01) 3/15/06 Page 4 of 10			HKTA 2029	CIE to use FINS in Hong Kong dSing 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
	(A2LA Cert. No. 1627.01) 3/15/06	Page 3 of 10	(A2LA Cert. No. 1627.01) 3/15/06	circuits at data rate of 2048 kbit/s Page 4 of 10



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REPORT: EF0916-1

FCC ID: QXO-RBT4102

HKTA 2030	Network Connection Specification for Connection of	Taiwan standards (DGT)	
	Customer Premises Equipment (CPE) to the Public	ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and
	Telecommunications Network (PTN) in Hong Kong using		POTS Splitter Technical Specifications
UKTA 2021	Digital Leased Circuits at nx64 kbit/s		ID0002 DST Equipment Type Approval Guidelines
HK1A 2031	Network Connection Specification for Connection of Customer Promises Equipment (CPE) to the Public	PSTN01 (non voice only)	Technical Specifications for Terminal Equipment for
	Telecommunications Network (PTN) in Hong Kong using	1511(01 (non-voice only)	Connection to Public Switched Telephone Network
	Digital Leased Circuits below 64 kbit/s	New Zealand standards	· · · · · · · · · · · · · · · · · · ·
HKTA 2032	Network Connection Specification for Connection of	PTC 200 (non-voice only)	Requirements for Connection of Customer Equipment to
	Customer Premises Equipment (CPE) to the Public		Analogue Lines
	Telecommunications Networks in Hong Kong using	PIC 217 TNA 117	Requirements for Bandwidth Management Devices
	Recommendation G 992.1	PTC 270	Interim arrangements for ADSL CPE
HKTA 2033	Network Connection Specification for Connection of	1102/0	Internit analigements for ADSE CI E
	Customer Premises Equipment (CPE) to Fixed	Singapore Standards	
	Telecommunications Networks in Hong Kong using	IDA TS ADSL	Type Approval Specification for Asymmetric Digital
	Splitterless Asymmetric Digital Subscriber Lines (ADSL)		Subscriber Line (Full-rate ADSL) Modems
Francisco et en de ada	based on ITU-T Recommendation G.992.2	IDA TS ADSL 2	Type Approval Specification for Asymmetric Digital
TBR 1: 1995	Attachment requirements for terminal equipment to	IDA TS DI CN 1	Type Approval Specification for Digital Interfaces based on
	Be connected to circuit switched data networks and		hierarchical bit rates of 2048 kbit/s, 34 368 kbit/s and 139 264
	Leased circuits using a CCITT Recommendation		kbit/s
	X.21 interface, or at an interface physically,	IDA TS ISDN 1	Type Approval Specification for connection of Terminal
	functionally and electrically compatible with CCITT		Equipment to Integrated Services Digital Network (ISDN)
	signaling rate up to and including 1 984 kbit/s	IDA TS ISDN 2	Type Approval Specification for connection of Terminal
TBR 2: 1997	Attachment requirements for Data Terminal	IDA 13 ISDN 2	Equipment to Integrated Services Digital Network (ISDN)
	Equipment (DTE) to connect to Packet Switched		Primary Rate Access (PRA)
	Public Data Networks (PSPDNs) for CCITT	IDA TS PSTN (non-voice only)	Type Approval Specification for connection of Terminal
	Recommendation X.25 interfaces at data signaling		Equipment to Public Switched Telephone Network (PSTN)
	rates up to 1 920 kbit/s utilizing interfaces derived	South Africa standards	
TBR 3: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN):	TE-001 (non-voice only)	(TLTE) for Connection to the Public Switched Telephone
1975 J. 1999 Millin 1771	Attachment requirements for terminal equipment to		Network (PSTN)
	connect to an ISDN using ISDN basic access		
TBR 4: 1995 + Amdt : 1997	Integrated Services Digital Network (ISDN);	Product Safety	
	Attachment requirements for terminal equipment to	General test methods:	
TPP 012: 1002 : A-+++ 1007	connect to an ISDN using ISDN primary rate access	Power input*, Permanence of marking*, Accessil	nity*, Permissibly limits*, Energy hazard
IBR 012: 1993 + Amdt : 1996	Provision (ONP) technical requirements: 2 0/48 kbit/s	imitation* Ring signal* Humidity conditioning	nited current*, Capacitor Discnarge / voltage * Creenage / Clearance / Distance thru Insulation (excluding
	digital unstructured leased line (D2048U) Attachment	CTI)*, Limited power measurement*. Ground Bo	ond/Earthing*, Ground continuity*. Temperature*. Stability*.
	requirements for terminal equipment	Applied force*, Steel sphere impact*, Mold stres	s*, Battery reverse current*, Ball pressure*, Leakage current*,
TBR 013: 1996	Business TeleCommunications (BTC); 2 048 kbit/s	Component abnormal*, Electric strength*, Impul	se*, Overvoltage*, Acoustic sound pressure*, 130mm / 20mm
	digital structured leased lines (D2048S); Attachment	flame*, Needle flame*, Hot flaming oil*, Locked	rotor/motor armature*, Vibration, Bump, Drop*, Strain relief*,
TDD 21, 1008	requirements for terminal equipment interface	Torque*, Insulation resistance*, Sound level*, Ha	andle loading*, Liquid overflow*, Spillage*, Liquid leakage*,
IBR 21: 1998	For pap-European approval for connection to the	Functionality* Protective impedance abnormal*	Capacitor short circuit abnormal* Output abnormal* Multi-
	Analogue Public Switched Telephone Networks	supply abnormal*. Cooling abnormal*. Heating of	evice abnormal*, Interlock abnormal*, Rigidity*, Cleaning*
	(PSTNs) of TE (excluding TE supporting the voice		
	telephony service) in which network addressing, if		
	provided, is by means of Dual Tone Multi Frequency		
TTDD 04 1007	(DTMF) signaling		
TBR 24: 1997	Business TeleCommunications (BTC); 34 Mbit/s Digital Unstructured and structured lossed lines		
	(D34U and D34S): Attachment requirements for		
	Terminal equipment interface		
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FCC ID: QXO-RBT4102

Environmental Simulation				
	m . a. 1 1		Note 1. For standards or methods listed on the scope of accreditation without a revision date,	
Test Technology	Test Standard	Supporting Standards	laboratories are expected to be competent in the use of the current version within one year of t	he date
Accessibility*	IEC 60529	IP-0x thru IP-6x	of publication of the standard test method or upon the date specified by the standard test method	bd
Acoustic Noise*	GR-63-CORE Sec 4.6		originator when the originator has implementation authority. When a superseded standard or r	nethod
Airborne Contaminants	GR-63-CORE Sec 4.5	MFG & Hygroscopic Dust	is required for an accredited test, the scope will include the superseded date/version. For those	that
Altitude	GR-63-CORE Sec 4.1.3		support the TCB/CB status of the organization acting as a certifier on behalf of the FCC or IC	the
Cold Start*	ETS 300 019	IEC 60068-2-1	expectation is currency within 30 days of Federal Register publication of changes for FCC and	130
Drip	IEC 60529	IP-x1 & IP-x2	days after IC website update. This note shall not be construed as an Accreditation Body implie	cation
Drops*	ETS 300 019	IEC 60068-2-32	to adopt a more current standard than is required in a regulation or code (i.e. the legal requirer	nent)
	GR-63-CORE Sec 4.3		which is adopted by the lab under their responsibility.	
Dust	IEC 60529	IP-5x & IP-6x		
Firearms Resistance Testing	GR-487		* On-site test service is available for this technology, test, or method.	
Fire Resistance	ANSI.T1.319			
	GR-63-CORE Sec 4.2	Fire & Needle Flame		
Heat Dissipation*	GR-63-CORE Sec 4.1.4			
Illumination	GR-63-CORE Sec 4.7			
Operational Temperature & Humidity				
(OpTH)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.2			
Salt Fog & Spray	ASTM B117			
Spatial*	GR-63-CORE Sec 2.0 & 3.0			
Spraying-Splashing	IEC 60529	IP-x3 & IP-x4		
Storage (Temperature & Humidity)*	ETS 300 019	IEC 60068-2-1		
		IEC 60068-2-2		
		IEC 60068-2-14		
		IEC 60068-2-30		
		IEC 60068-2-56		
	GR-63-CORE Sec 4.1.1			
Vibration	ETS 300 019	IEC 60068-2-6		
		IEC 60068-2-27		
		IEC 60068-2-29		
		IEC 60068-2-32		
		IEC 60068-2-57		
		IEC 60068-2-64		
	GR-63-CORE Sec 4.4	Earthquake, Office &		
		Transportation		
Water Immersion	IEC 60529	IP-x7 & IP-x8		
Water Jet	IEC 60529	IP-x5 & IP-x6		
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