

Test Report Serial No.:	010907KBC-T805-E24C Report Issue I		April 16, 2007
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.: Revision	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133	
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874	

ELECTROMAGNETIC COMPATIBILITY

EMC TEST REPORT

FCC 47 CFR PART 22 SUBPART H FCC 47 CFR PART 24 SUBPART E

FOR

ITRONIX CORPORATION

MODEL: IX-AC595

DUAL-BAND CDMA/EV-DO PCMCIA MODEM

INSTALLED IN

IX325 SERIES RUGGED TABLET PC

UTILIZING AN

EMBEDDED ANTENNA

FCC ID: KBCIX-AC595

IC ID: 1943A-AC595

Test Report Serial No. 010907KBC-T805-E24C

<u>Test Report Revision No.</u>

Revision 1.0 (Initial Release)

Test Lab and Location

Celltech Compliance Testing & Engineering Lab (Celltech Labs Inc.) 1955 Moss Court Kelowna, BC Canada V1Y 9L3

Company:	Itron	ronix Corporation		FCC ID:	KBCIX-AC595	IC ID: 1943A-AC595		ITRONIX	
Model:	IX-AC5	95 DUT	Type:	Dual-Band C	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC			A GENERAL DYNAMICS COMPANY	
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Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

DECLARATION OF COMPLIANCE														
Test Lab and Location CELLTECH LABS INCORPORATED Testing and Engineering Services 1955 Moss Court Kelowna, BC V1Y 9L3 Canada					_	npan <u>y</u> rmation	ITRONIX CORPORATION 12825 E. Mirabeau Parkway Spokane Valley, WA 99216 United States							
Phone:	250-448	3-7047		Fax:	250-4	448-704	8							
E-mail:	info@c	elltechlab	s.com	Web site	e: wwv	v.celltech	nlabs.com							
Lab Registration	No.(s):	FCC:	714830)	·		IC:	IC 3	874					
Rule Part(s) Appl	ied:	FCC:	§2; §22	2H; §24E			IC:	RSS	S-132 Issue 2	2, RSS-1	133 Issu	∋ 3		
Device Classificat	tion(e):	FCC:	DCS Li	PCS Licensed Transmitter (PCB)		r (PCR)	IC:	800 MHz Cellul		ular Telephones Employing New Technologies				
Device Classifica	tion(s).	100.	1 00 Licensed Transmitter (1 0b)			10.	2 GHz Personal Communication Services							
Device Ide	ntifier(s)	:	FCC ID: KBCIX-AC595			IC ID:	19	1943A-AC595 Device Model: IX-AC595			IX-AC595			
Device Des	scription			Dual-Band CDMA/EV-DO PCMCIA Modem Card installed in Itronix IX325 Rugged Tablet PC				et PC						
Transmit Freque	ency Ran	ge(s):	824.70 - 848.31 MHz Cellular CDMA/E		ar CDMA/EV	/-DO 1851.25 - 1908.75 MHz PCS CDMA/EV		MA/EV-DO						
				EV-DO	1851.2	5 MHz	Ch. 25	18	80.00 MHz	Ch. 6	500 1	908.75 MI	Ηz	Ch. 1175
Maximum RF Pe			(Re	(Rev. 0) 28.		dBm	0.757 W	2	8.33 dBm	0.681	W	27.24 dBn	n	0.530 W
Output Power Le	evels Mea	asured:		r EV-DO	824.70	MHz	Ch. 1013	83	86.52 MHz	Ch. 3	884	848.31 MH	lz	Ch. 777
			(Re	v. 0)	28.73	dBm	0.746 W	2	9.01 dBm	0.796	W	28.27 dBn	n	0.671 W
May FRP/FIRP I	Max. ERP/EIRP Levels Measured:		Cellul	lar EV-DC	(Rev. 0))	23.51 dBm		0.224 W	1	Ch.	384	8	36.52 MHz
mun Litt /Litt Levels incasuleu.		PCS EV-DO (Rev. 0)			32.35 dBm	n 1.72 W			Ch.	Ch. 25 1851.25 MI		351.25 MHz		
Antenna Type(s) Tested:			Internal Dual-Band CDMA			Manufactured by Sierra Wireless Inc. Embedded on PCN			CMCIA Card					
Power Sourc	e(s) Test	ed:	A	AC Power	Adapter		Manufactured by Delta Electronics Inc. Model: ADP-75			75FB B				

This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2, 22H, 24E; Industry Canada RSS-132 Issue 2, RSS 133 Issue 3 and ANSI TIA/EIA-603-C-2004.

I attest to the accuracy of the data. All measurements reported herein were performed by me or were under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

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Test Report Approved By:
Spencer Watson
EMC Manager
Celltech Labs Inc.



Company:	Itroni	x Corporation	FCC ID:	KBCIX-AC595	IC ID: 1943A-AC595		ITRONIX	
Model:	IX-AC595 DUT Type: Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC			A GENERAL DYNAMICS COMPANY				
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	TEST SUMMARY								
	Referenced Sta	ndard(s): FCC CFR Title	e 47 Parts 2, 22 & 2	24					
<u>Appendix</u>	Test Description	Procedure Reference	Limit Reference	Test Start Date	Test End Date	Result			
Α	Conducted RF Output Power	FCC 97-114, §2.1046	N/A	Jan18	Jan19	N/A			
В	Effective Radiated Power Effective Isotropic Radiated Power	ANSI/TIA/EIA-603-C	§22.913 §24.232(c)	Jan22	Jan22	Pass			
С	Radiated TX Spurious Emissions	ANSI/TIA/EIA-603-C	§22.917 (a), §24.238 (a)	Feb15	Feb20	Pass			
	Referenced Stand	lard(s): IC RSS-132 Issu	e 2 & RSS-133 Iss	ue 3					
Α	Conducted RF Output Power	RSS-Gen §4.6 RSS-133 §4.3	N/A	Jan18	Jan19	N/A			
В	Effective Radiated Power Effective Isotropic Radiated Power	ANSI/TIA/EIA-603-C	SRSP-503 §5.1.3 SRSP-510 §5.1.2	Jan22	Jan22	Pass			
С	Radiated TX Spurious Emissions	RSS-Gen §4.7	RSS-132 §4.5 RSS-133 §4.4	Feb15	Feb20	Pass			

REVISION LOG

Revision	Description	Implemented By	Implementation Date
1.0	Initial Release	Jonathan Hughes	April 16, 2007

SIGNATORIES

Prepared By:	Spenser Watson	February 21, 2007
Name/Title:	Spencer Watson / EMC Manager	Date
Reviewed By:	- 222	April 16, 2007
Name/Title:	Jonathan Hughes / General Manager	Date

Company:	Itroni	x Corporation	FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	IT	TRONIX °
Model:	IX-AC5	DUT Type:	Dual-Band C	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC			EBAL DYNAMICS COMPANY	
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1.0 SCOPE

This report outlines the measurements made and results collected during electromagnetic emissions testing of the Itronix Corporation Model: IX-AC595 Dual-Band CDMA/EV-DO PCMCIA Modem Card installed in the IX325 Rugged Tablet PC utilizing the embedded antenna installed within the PCMCIA Card. The measurement results were applied against the applicable EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication Commission Code of Federal Regulations Title 47 Parts 2, 22 Subpart H and 24 Subpart E; and Industry Canada Radio Standards Specification RSS-132 Issue 2 and RSS-133 Issue 3.

2.0 REFERENCES

2.1 Normative References

ANSI/ISO 17025:2005 General Requirements for competence of testing and calibration laboratories

IEEE/ANSI C63.4:2003 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic

Equipment in the Range of 9 kHz to 40 GHz

IEEE/ANSI C95.1:2005 American National Standard Safety Levels with Respect to Human Exposure to Radio

Frequency Electromagnetic Fields

ANSI/TIA/EIA-603-C:2004 Land Mobile FM or PM Communication Equipment Measurement and Performance Standards

CFR Title 47 Part 2:2006 Code of Federal Regulations

Title 47: Telecommunication

Part 2: Frequency Allocations and Radio Treaty Matters;

General Rules and Regulations

CFR Title 47 Part 22:2006 Code of Federal Regulations

Title 47: Telecommunication
Part 22: Public Mobile Services

CFR Title 47 Part 24:2006 Code of Federal Regulations

Title 47: Telecommunication

Part 24: Personal Communication Services

IC Spectrum Management & Telecommunications Policy

Radio Standards Specification

nications Policy RSS-102 Issue 2 - Radio Frequency Exposure Compliance of Radiocommunication Apparatus

(All Frequency Bands)

RSS-132 Issue 2 - 800 MHz Cellular Telephones Employing New Technologies

RSS-133 Issue 3 - 2 GHz Personal Communication Services

RSS-212 Issue 1 (Provisional) - Test Facilities & Test Methods for Radio Equipment RSS-Gen Issue 1 - General Requirements and Information for the Certification of

Radiocommunication Equipment

SRSP-503 Issue 6 - Technical Requirements for Cellular Radiotelephone Systems Operating

in the Bands 824 - 849 MHz and 869 - 894 MHz

SRSP-510 Issue 3 - Technical Requirements for Personal Communications Services in the

Bands 1850 - 1910 MHz and 1930 - 1990 MHz



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3.0 TERMS AND DEFINITIONS

AV Average

CDMA Code Division Multiple Access
CFR Code of Federal Regulations

dB decibel

dBm dB referenced to 1 mW dBuV dB referenced to 1 uV DUT Device under Test dBc dB down from carrier EBW Emission Bandwidth

EDGE Enhanced Data Rates for GSM Evolution
EIRP Effective Isotropic Radiated Power
EMC Electromagnetic Compatibility
ERP Effective Radiated Power
EV-DO Evolution - Data Optimized

FCC Federal Communications Commission
FHSS Frequency Hopping Spread Spectrum
GSM Global Systems for Mobile Communication

GMRS General Mobile Radio Service
GPRS General Packet Radio Service

HP Hewlett Packard
HPF High Pass Filter
Hpol Horizontal Polarization

HSDPA High Speed Downlink Packet Access
HSUPA High Speed Uplink Packet Access

Hz Hertz

IC Industry Canada

kHz kilohertz

LNA Low Noise Amplifier

m meter MHz Megahertz

Mbps megabits per second not applicable n/a not available

PK Peak

PPSD Peak Power Spectral Density

QP Quasi-peak

RBW Resolution Bandwidth R&S Rohde & Schwarz

RSS Radio Standard Specification

SA Spectrum Analyzer

UMTS Universal Mobile Telecommunications System

VBW Video Bandwidth
Vpol Vertical Polarization
WCDMA Wide CDMA

Company:	Itroni	ix Corporation		FCC ID:	KBCIX-AC595	C595 IC ID: 1943A-AC595			ITRONIX*		
Model:	IX-AC5	95	DUT Type:	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC		A GENERAL DYNAMICS COMPANY					
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4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 1955 Moss Court, Kelowna, British Columbia, Canada, V1Y 9L3. The radiated and conducted emissions sites conform with the requirements set forth in ANSI C63.4 and are filed and listed with the FCC under Registration Number 714830 and Industry Canada under File Number IC 3874.

5.0 GENERAL INFORMATION

5.1 Applicant Information

Company Name:	Itronix Corporation
Address:	12825 E. Mirabeau Parkway
	Spokane Valley, WA 99216
	United States

5.2 DUT Description

The DUT consisted of the Sierra Wireless AC595 Dual-Band CDMA/EV-DO PCMCIA Modem Card installed in the Itronix Corporation IX325 Rugged Tablet PC. The PCMCIA Card is enclosed within the PCMCIA hatch of the IX325 Tablet PC.

Device Type:	Dual-Band CDMA/EV-DC			MCIA Modem	Model:	IX-	-AC595	Ser	rial No.:	X2728	06107210
Host PC Type:	Rugged Tablet PC			Model:	IX325		Serial No.: Z		ZZGEG6108ZZ8638		638
Modem Manufacturer:	Sierra Wireless Inc. (AC595)			Tablet PC M	anufacture	r:	Itronix Corporation				
Device Identifier(s):	FCC ID: KBCIX-AC595 IC ID: 1943A-A			1943A-A	C595						
Battery Type(s):	Lithiu	m-ion	11	.1 VDC	3.6	Ah			Model N	ame: T8	M-E
Power Source Tested:	AC Powe	er Adapter		Delta Electronics Inc.			Model: ADP-75FB B			3	
Antenna Type(s) &	s) & Embedded on		Manufacturer by Sierra Wireless Inc.		. Max. Gain:		Cell I	Band:	+3 dBi		
Gain(s):	PCMC	IA Card	ivialia	actarer by orer	14 17 11 01000 1110.				PCS	Band:	+4 dBi

5.3 Rule Part(s) & Classification(s)

Rule Part(s) Applied:		47 CFR §2; §22(H), §24(E)
, , , , , , , , , , , , , , , , , , ,	IC:	RSS-132 Issue 2, RSS-133 Issue 3
	FCC:	PCS Licensed Transmitter (PCB)
Device Classification(s):	IC:	800 MHz Cellular Telephones employing New Technologies (RSS-132)
	10.	2 GHz Personal Communication Services (RSS-133)

Company:	Itroni	x Corporation	ration FCC ID: KBCIX-AC595 IC ID: 1943A-AC595		1943A-AC595	ITRONIX	
Model:	IX-AC5	95 DUT Type:	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC			NEBAL DYNAMICS COMPANY	
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5.4 Mode(s) of Operation Tested

5.4.1 Dual-Band CDMA/EV-DO Modem

Customer supplied software was used to set the Sierra Wireless AirCard 595 modem to the appropriate channel and power level for the specific measurement. Measurements were made with the modem set to the low, mid and high channel in each band or on a worst-case channel for the measurement, as determined by prescan evaluations. The following settings were used for each channel.

5.4.1.1 Cellular CDMA/EV-DO

Transmitter Frequency Range:	824.70 - 848.31 MHz Ch. 1013 (824.70 MHz) (low), Ch. 384 (836.52 MHz) (mid) & Ch. 777 (848.31 MHz) (high) measured unless otherwise noted
Software Power Gain Settings:	Set by CDMA communications test set for "all ups"
Modulation Type(s):	QPSK

5.4.1.2 PCS CDMA/EV-DO

Transmitter Frequency Range:	1851.25 - 1908.75 MHz Ch. 25 (1851.25 MHz) (low), Ch 600 (1880.00 MHz) (mid) & Ch. 1175 (1908.75 MHz) (high) measured unless otherwise noted
Software Power Gain Settings:	Set by CDMA communications test set for "all ups"
Modulation Type(s):	QPSK

5.5 Configuration Description

The DUT was configured, as described by the client as being representative of what would be delivered to a final customer. Prescan evaluations were made to determine the configuration that resulted in the highest emissions. It was determined that placing the device face up on the measurement surface resulted in the highest emissions. EV-DO transmission in Rev. 0 RTAP mode was utilized as worst-case power mode for both cellular and PCS bands. More details may be included in each appendix.

5.5.1 Configuration Justification

The DUT was tested in a configuration described by the client as being typical of normal use.

5.5.2 Transmitter Configuration(s)

Optional Co-located Transmitter Configurations	Intel Pro 802.11abg WLAN Model: 2200BG	FCC ID: KBCIX325-IWL		
	MSI Bluetooth Model: MS-6837	FCC ID: KBCIX325-BT		
	Intel Pro 802.11abg WLAN Model: 2200BG & MSI Bluetooth Model: MS-6837	FCC ID: KBCIX325-IWLBT		
	Note: The IX-AC595 and WLAN do not co-transmit (see applicant's attestation su The IX-AC595 and Bluetooth can co-transmit. Co-transmit radiated spurious and found to be in compliance.			

6.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria is the limit set forth in the reference standards. The DUT is considered to have passed the requirements if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

Company:	Itronix Corporation		FCC ID: KBCIX-AC595 IC ID:		1943A-AC595	IT	TRONIX	
Model:	IX-AC5	95 DUT Type:			Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC			SEBAL DYNAMICS COMPANY
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APPENDICES

Company:	Itroni	x Corporation	FCC ID:	FCC ID: KBCIX-AC595 IC ID: 1943A-AC595 Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC			17	ronix [®]
Model:	IX-AC5	95 DUT Type:	Dual-Band C				A GENERAL DYNAMICS COMPANY	
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Appendix A - Conducted RF Output Power Measurement

A.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §2.1046(b)
Procedure Reference	FCC 97-114

A.2 LIMITS	
A.2.1 FCC CFR	47
FCC CFR 47 §2.1046 (b)	For single sideband, independent sideband, and single channel, controlled carrier radiotelephone transmitters the procedure specified in paragraph (a) of this section shall be employed and, in addition, the transmitter shall be modulated during the test as follows. In all tests, the input level of the modulating signal shall be such as to develop rated peak envelope power or carrier power, as appropriate, for the transmitter.
*ERP and EIRP li	mits are specified in Appendix B.

A.3 ENVIRONMENTAL CONDITIONS				
Temperature	25 +/- 5 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

A.4 EQUIPMENT L	_IST				
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00015	HP	E4408B	Spectrum Analyzer	02Feb06	02Feb07
00013	1 "	L4400D	opectium Analyzer	05Feb07	05Feb08
80012	Agilent	8960A	Radio Communications Test Set	13Dec06	12Jan09
00078	Pasternack	PE2214-20	Directional Coupler 1-18 GHz	n/a*	n/a*

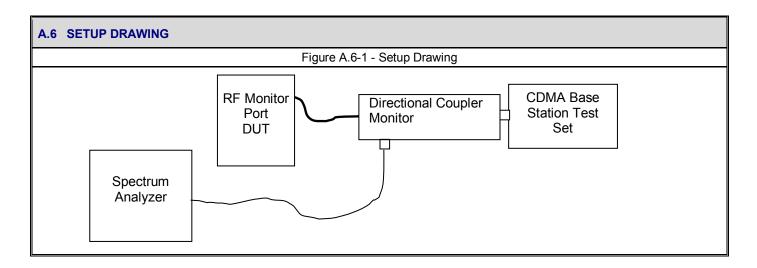
^{*}Verified with power meter prior to use

A.5 MEASUREMENT EQUIPMENT SETUP					
Equipment Connections	The equipment was connected as shown in the setup drawing in A.6.				
Equipment Settings	For Channel Power: RBW = 1 MHz For Peak Power: RBW = 3 MHz Offset - set to include loss through cable and directional coupler.				
Measurement Procedure	The channel was set on the base station and the resulting power measurement recorded and reported herein.				

Company:	any: Itronix Corporation FCC ID: KBCIX-AC595 IC ID: 1943A		1943A-AC595	17	FRONIX			
Model:	IX-AC5	95 DUT Type:	Dual-Band C	ual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC			NEBAL DYNAMICS COMPANY	
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A.7 DUT OPERATING DESCRIPTION

Power measurements were made in the cellular and PCS bands with the DUT set appropriately as described in Section 5.4.



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A.8 TEST RESULTS

A 8.1 1xEV-DO Rev. 0

Power Measurement Procedures

This procedure assumes the Agilent 8960 Series 10 E5515C Wireless Communications Test Set contains the following applications installed and with valid license.

Application Rev. License

1xEV-DO Terminal Test A.07.13, L

FTAP

- Call Setup → Shift & Preset
- Protocol Rev → 0 (1xEV-DO)
- Application Config → Enhanced Test Application Protocol → FTAP
- FTAP Rate → 307.2 kbps (2 Slot, QPSK)
- Access Network Info → Cell Parameters → Sector ID → (Didn't Need One) → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

<u>RTAP</u>

- Call Setup → Shift & Preset
- Protocol Rev → 0 (1xEV-DO)
- Application Config → Enhanced Test Application Protocol → RTAP
- RTAP Rate → 153.6 kbps
- Access Network Info \rightarrow Cell Parameters \rightarrow Sector ID \rightarrow (Didn't Need One) \rightarrow Subnet Mask \rightarrow 0
- Generator Info \rightarrow Termination Parameters \rightarrow Max Forward Packet Duration \rightarrow 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

	Conducted Output Power Measurements											
	1xEV-DO Rev. 0											
	Г.,				FTAP					RTAP		
Band	Freq. (MHz)	Channel	Rate	Ave	rage	Pe	ak	Rate	Ave	erage	Pe	ak
	(1411 12)		(kbps)	dBm	Watts	dBm	Watts	(kbps)	dBm	Watts	dBm	Watts
	1851.25	25	007.0	23.8	0.240	28.68	0.738		24.0	0.251	28.79	0.757
PCS	1880.00	600	307.2 (2 slot)	24.2	0.263	28.41	0.693	153.6	24.1	0.257	28.33	0.681
	1908.75	1175	(= 0.01)	23.6	0.229	27.15	0.519		23.7	0.234	27.24	0.530
	824.70	1013	007.0	23.2	0.209	28.63	0.729		23.4	0.219	28.73	0.746
Cell	836.52	384	307.2 (2 slot)	23.7	0.234	28.95	0.785	153.6	23.9	0.245	29.01	0.796
	848.31	777	(3.10-1)	23.7	0.234	28.27	0.671		23.9	0.245	28.27	0.671

Note: Peak Power was measured with the HP E4408B Spectrum Analyzer

Company:	Itronix Corporation		FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	IT	RONIX
Model:	IX-AC5			ERAL DYNAMICS COMPANY				
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007	
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133		
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

A 8.2 1x EV-DO REV A

Power Measurement Procedures

This procedure assumes the Agilent 8960 Series 10 E5515C Wireless Communications Test Set contains the following applications installed and with valid license.

Application Software Option

1xEV-DO Terminal Test A.07.13, L

FETAP

- Call Setup → Shift & Preset
- Protocol Rev → A (1xEv-Do-A)
- Application Config → Enhanced Test Application Protocol → FETAP
- FTAP Rate → 307.2 kbps (2 Slot, QPSK)
- Protocol Subtype Config \rightarrow Release A Physical Layer Subtype \rightarrow Subtype 0
- Access Network Info → Cell Parameters → Sector ID → (Didn't Need One) → Subnet Mask → 0
- Generator Info → Termination Parameters > Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

RETAP

- Call Setup → Shift & Preset
- Protocol Rev → A (1xEv-Do-A)
- Application Config → Enhanced Test Application Protocol → RETAP
- F-Traffic Format → 4 (1024, 2,128) Canonical (307.2k, QPSK)
- R-Data Pkt Size → 4096
- Protocol Subtype Config → Release A Physical Layer Subtype → Subtype 2
 - → PL Subtype 2 Access Channel MAC Subtype → Default (Subtype 0)
- Access Network Info → Cell Parameters → Sector ID → (Didn't Need One) → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration > 16 Slots
 - → ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

	Conducted Output Power Measurements											
	1xEV-DO Rev. A											
	F				FETAP					RETAP		
Band	Freq. (MHz)	Channel	Rate	Ave	rage	Pe	ak	Rate	Ave	erage	Pe	ak
	(IVI 1712)		(kbps)	dBm	Watts	dBm	Watts	(kbps)	dBm	Watts	dBm	Watts
	1851.25	25	007.0	23.7	0.234	28.62	0.728		24.2	0.263	28.27	0.671
PCS	1880.00	600	307.2 (2 slot)	23.8	0.240	28.16	0.655	153.6	24.2	0.263	27.83	0.607
	1908.75	1175	(= 3.33)	23.8	0.240	27.15	0.519		23.8	0.240	26.91	0.491
	824.70	1013	007.0	23.2	0.209	28.72	0.745		23.5	0.224	28.63	0.729
Cell	836.52	384	307.2 (2 slot)	23.7	0.234	28.92	0.780	153.6	24.0	0.251	28.80	0.759
	848.31	777	(3.100)	23.7	0.234	28.29	0.675		24.0	0.251	28.18	0.658

Note: Peak Power was measured with the HP E4408B Spectrum Analyzer

Company:	Itronix Corporation		FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	ITRONIX [®]
Model:	IX-AC5	95 DUT Type:	Dual-Band C	DMA/EV-DO PCMCIA I	A GENERAL DYNAMICS COMPANY		
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007	
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133		
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

A 8.3 CDMA 1xRTT

Power Measurement Procedures

This procedure assumes the Agilent 8960 Series 10 E5515C Wireless Communications Test Set contains the following applications installed and with valid license.

Application Rev. License
CDMA2000 Mobile Test B.12.12, L

1xRTT

- Call Setup → Shift & Preset
- Protocol Rev → 6 (IS-2000-0)
- Radio Config (RC) → RC3 (Fwd3, Rvs3)
- FCH Service Option (SO) Setup → SO55
- Traffic Data Rate → Full
- Cell info → Cell Parameters → System ID (SID) → 8

 \rightarrow Network ID (NID) \rightarrow 65535

Rvs Power Ctrl → All Bits Up (to get the maximum power)

	Conducted Output Power Measurements											
				CDMA	1xRTT							
Band Freq.			Rate	Radio	Service Option	Ave	rage	Pe	Peak			
Band	(MHz)	Channel	(Kbps)	Configuration (RC)	(SO)	dBm	Watts	dBm	Watts			
	1851.25	25				24.2	0.263	28.23	0.665			
PCS	1880.00	600	9600	RC3	SO55 (FCH)	24.2	0.263	27.90	0.617			
	1908.75	1175				23.7	0.234	26.92	0.492			
	824.70	1013				23.5	0.224	28.49	0.706			
Cell	836.52	384	9600	RC3	RC3 SO55 (FCH)	24.1	0.257	28.53	0.713			
	848.31	777				24.0	0.251	28.09	0.644			
	1851.25	25			SO32 (FCH+SCH)	23.5	0.224	28.30	0.676			
PCS	1880.00	600	9600	RC3		23.7	0.234	28.00	0.631			
	1908.75	1175			(* 311 3311)	23.6	0.229	27.05	0.507			
	824.70	1013	9600		6022	23.1	0.204	28.57	0.719			
Cell	836.52	384		9600	9600 RC3	SO32 (FCH+SCH)	23.5	0.224	28.52	0.711		
	848.31	777			(1.011.001.1)	23.6	0.229	28.12	0.649			
	1851.25	25				24.2	0.263	28.48	0.705			
PCS	1880.00	600	9600	RC1	SO55	24.2	0.263	28.13	0.650			
	1908.75	1175				23.7	0.234	27.12	0.515			
	824.70	1013				23.5	0.224	28.59	0.723			
Cell	836.52	384	9600	RC1	SO55	24.1	0.257	28.76	0.752			
	848.31	777				24.0	0.251	28.24	0.667			

Note: Peak Power was measured with the HP E4408B Spectrum Analyzer

Company:	Itronix Corporation		FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	17	TRONIX
Model:	IX-AC5	95	DUT Type:	Dual-Band C	DMA/EV-DO PCMCIA I		NEBAL DYNAMICS COMPANY	
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Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133		
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

A.9 PASS/FAIL

There is no pass/fail criterion for this measurement.

A.10 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watson EMC Manager Celltech Labs Inc.

January 19, 2007

pencer Watson

Date



Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007	
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133		
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

Appendix B - Effective Radiated Power / Effective Isotropic Radiated Power Measurement

B.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §22.913 (a)(2), FCC CFR 47 §24.232 (c)
Procedure Reference	ANSI/TIA/EIA-603-C

B.2 LIMITS	
B.2.1 FCC CFR 4	17
FCC CFR 47 §22.913 (a)(2)	(a)(2) Maximum ERP The ERP of mobile transmitters and auxiliary transmitters must not exceed 7 Watts.
FCC CFR 47 §24.232 (c)	(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

B.3 ENVIRONMENTAL CONDITIONS								
Temperature	25 +/- 5 °C							
Humidity	40 +/- 10 %							
Barometric Pressure	101 +/- 3 kPa							

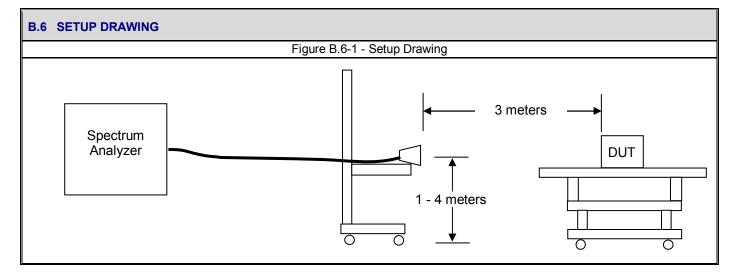
B.4 EQUIPMENT	B.4 EQUIPMENT LIST												
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE								
00072	EMCO	2075	Mini-mast	n/a	n/a								
00073	EMCO	2080	Turn Table	n/a	n/a								
00071	EMCO	2090	Multi-Device Controller	n/a	n/a								
00050	Chase	CBL-6111A	Bilog Antenna	04Apr06	04Apr07								
00055	EMCO	3121C	Dipole Antenna	04Apr06	04Apr07								
00034	ETS	3115	Double Ridged Guide Horn	11Aug05	11Aug07								
00035	ETS	3115	Double Ridged Guide Horn	03Apr06	03Apr08								
00161	Waveline	899	Standard Gain Horn Antenna	n/a	n/a								
00051	HP	8566B	Spectrum Analyzer RF Section	04Apr06	04Apr07								
00049	HP	85650A	Quasi-peak Adapter	04Apr06	04Apr07								
00047	HP	85685A	RF Preselector	05Apr06	05Apr07								
00048	Gore	65474	Microwave Cable	16Aug06	16Aug07								
00006	R&S	SMR 20	Signal Generator (10MHz-40GHz)	06Apr06	06Apr07								
00114	Amplifier Research	DC7154	Directional Coupler (0.8-4.2 GHz)	n/a	n/a								
00078	Pasternack	PE2214-20	Directional Coupler (1-18 GHz)	n/a	n/a								
00106	Amplifier Research	5S1G4	Power Amplifier (5W, 800MHz-4.2GHz)	n/a	n/a								
00041	Amplifier Research	10W1000C	Power Amplifier (0.5 - 1 GHz)	n/a	n/a								
00110	Gigatronics	8652A	Power Meter	12Apr06	12Apr07								
00011	Gigatronics	80701A	Power Sensor	03Feb06	03Feb07								
80012	Agilent	8960A	Radio Communications Test Set	13Dec06	12Jan09								

Company:	Itroni	x Corporation	tronix Corporation FCC ID: KBCIX-AC595 IC ID: 1943A-AC595					FRONIX
Model:	IX-AC5	95 DUT Type:	Dual-Band C	DMA/EV-DO PCMCIA I	Modem instal	led in IX325 Tablet PC	_	NEBAL DYNAMICS COMPANY
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007			
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0			
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	2, §22H, §24E Industry Canada RSS-132, RSS-133				
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874				

B.5 MEASUREMENT EQUIPMENT SETUP												
MEASUREMENT	For the field strength measure number of antennas were used antenna was used are as followantenna and fed from a CW sigbeing investigated.	to cover the applicable frws. For the final substitu	equency range tested. T tions, the DUT was repla	he ranges in which each ced with the appropriate								
CONNECTIONS	Frequency F	Range	RX Antenna	TX Antenna								
	30 MHz - 1	GHz	Bilog	Dipole								
	1 GHz - 18	GHz	ETS 3115 Horn	ETS 3115 Horn								
	For measuring the radiated fie to the following settings:	ld strength of the fundam	ental CDMA signal, the sp	ectrum analyzer was set								
MEASUREMENT	Mode	RBW	VBW	Detector								
EQUIPMENT SETTINGS	Mode	MHz	MHz	. Beleetoi								
	Cellular	3	3	Peak								
	PCS	3	3	Peak								



B.7 DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high channels for both the cellular and PCS bands at maximum power level as described in Appendix A.

Company:	Itronix Corporation FCC ID: KBCIX-AC595 IC ID:		1943A-AC595	17	TRONIX [®]				
Model:	odel: IX-AC595 DUT Type:			Dual-Band C	DMA/EV-DO PCMCIA I	Modem instal	led in IX325 Tablet PC		NEBAL DYNAMICS COMPANY
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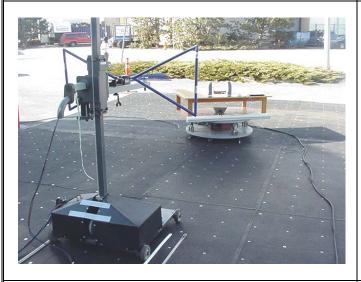


Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007		
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0		
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133			
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874		

B.8 SETUP PHOTOGRAPHS

Photograph B.8-1 - Bilog Receive Antenna with DUT in Face Up Configuration







Photograph B.8-3 - Dipole Substitution Setup

Photograph B.8-4 - Horn Substitution Setup





Company:	Itroni	x Corporation	FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	17	ronix.
Model:	el: IX-AC595 DUT Type:		Dual-Band C	DMA/EV-DO PCMCIA I	Modem instal	led in IX325 Tablet PC		NEBAL DYNAMICS COMPANY
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007		
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0		
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133			
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874		

B.9 TEST RESULTS

B.9.1 Carrier Levels

B.9.1.1 Cellular Carrier Levels

Celltech

 Project Number:
 805
 Standard:
 FCC22.913

 Company:
 Itronix
 Test Start Date:
 22-Jan-07

 Product:
 IX325 AC595
 Test End Date:
 22-Jan-07

Config	uration	Polarity	Distance	Carrier Channel	Frequency	Corrected Field Strength	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Limit		ERP Limit		Margin	Pass/ Fail		ERP Carrier vel
Orientation	Accessory		m	O	MHz	dBuV/m	dBuV	dBm	dBd	dBm	Watts	dB		dBm	milliWatts		
					Portabl	e EVDO Ce	llular Band F	Radiated C	arrier Pov	ver Level	s						
Face Up	None	Н	3	1013	824.7000	125.46	100.50	24.95	-1.44	38.45	7.00	14.94	PASS	23.51	224.26		
Face Up	None	٧	3	1013	824.7000	117.46	92.50	20.22	-1.44	38.45	7.00	19.67	PASS	18.78	75.47		
Face Up	None	Н	3	384	836.5200	125.39	100.10	24.86	-1.35	38.45	7.00	14.94	PASS	23.51	224.50		
Face Up	None	V	3	384	836.5200	116.59	91.30	19.35	-1.35	38.45	7.00	20.45	PASS	18.00	63.13		
Face Up	None	Н	3	777	848.3100	124.23	98.70	23.81	-1.25	38.45	7.00	15.89	PASS	22.56	180.16		
Face Up	None	٧	3	777	848.3100	114.93	89.40	18.03	-1.25	38.45	7.00	21.67	PASS	16.78	47.60		

B.9.1.2 PCS Carrier Levels

Celltech

 Project Number:
 805
 Standard:
 FCC24.232l

 Company:
 Itronix
 Test Start Date:
 22-Jan-07

 Product:
 IX325 AC595
 Test End Date:
 22-Jan-07

Config	uration	Polarity	Distance	Carrier Channel	Frequency	Corrected Field Strength	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	EIRP	Limit	Margin	Pass/ Fail		EIRP Carrier vel
Orientation	Accessory		m	O	MHz	dBuV/m	dBuV	dBm	dBi	dBm	Watts	dB		dBm	milliWatts
	Portable EVDO PCS Band Radiated Carrier Power Levels														
Face Up	None	Н	3	25	1851.2500	126.63	96.20	23.53	8.82	33.01	2.00	0.66	PASS	32.35	1718.50
Face Up	None	٧	3	25	1851.2500	122.73	92.30	18.74	8.82	33.01	2.00	5.45	PASS	27.56	570.36
Face Up	None	Н	3	600	1880.0000	125.18	94.60	23.16	8.86	33.01	2.00	0.99	PASS	32.02	1590.74
Face Up	None	٧	3	600	1880.0000	120.68	90.10	17.48	8.86	33.01	2.00	6.67	PASS	26.34	430.13
Face Up	None	Н	3	1175	1908.7500	123.82	93.10	22.15	8.89	33.01	2.00	1.97	PASS	31.04	1270.72
Face Up	None	V	3	1175	1908.7500	118.62	87.90	15.72	8.89	33.01	2.00	8.40	PASS	24.61	289.10

Model: IX-AC595 DUT Type: Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC	Company:	Itronix Corporation		Itronix Corporation FCC ID: KBCIX-AC595		IC ID: 1943A-AC595	
	Model: IX-AC595 DUT Type:			Dual-Band C	DMA/EV-DO PCMCIA I	Modem instal	led in IX325 Tablet PC



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Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0
Test Standard(s): FCC 47 CFR §2, §22H, §24E Industry Canada R		Industry Canada RSS	S-132, RSS-133
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874	

B.10 PASS/FAIL

In reference to the results outlined in B.9, the DUT passes the requirements as stated in the reference standards.

B.11SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watson EMC Manager Celltech Labs Inc.

January 22, 2007

Spenier Watson

Date



Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.: Revision	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-1	
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874	

Appendix C - Radiated Spurious Emissions Measurement

C.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §22.917(a), FCC CFR 47 §24.238(a)
Procedure Reference	ANSI/TIA/EIA-603-C

C.2 LIMITS

C.2.1 FCC CFR 47

FCC CFR 47 §22.917 & §24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 $\log(P)$ dB.

C.3 ENVIRONMENTAL CONDITIONS							
Temperature	25 +/- 5 °C						
Humidity	40 +/- 10 %						
Barometric Pressure	101 +/- 3 kPa						

C.4 EQUIPM	MENT LIST				
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00072	EMCO	2075	Mini-mast	n/a	n/a
00073	EMCO	2080	Turn Table	n/a	n/a
00071	EMCO	2090	Multi-Device Controller	n/a	n/a
00050	Chase	CBL-6111A	Bilog Antenna	04Apr06	04Apr07
00055	EMCO	3121C	Dipole Antenna	04Apr06	04Apr07
00034	ETS	3115	Double Ridged Guide Horn	11Aug05	11Aug07
00035	ETS	3115	Double Ridged Guide Horn	03Apr06	03Apr08
00161	Waveline	899	Standard Gain Horn Antenna	n/a	n/a
00051	HP	8566B	Spectrum Analyzer RF Section	04Apr06	04Apr07
00049	HP	85650A	Quasi-peak Adapter	04Apr06	04Apr07
00047	HP	85685A	RF Preselector	05Apr06	05Apr07
00048	Gore	65474	Microwave Cable	16Aug06	16Aug07
00115	Miteq	J54-00102600-35-5A	LNA	18Apr06	18Apr07
00006	R&S	SMR 20	Signal Generator (10MHz-40GHz)	06Apr06	06Apr07
00114	Amplifier Research	DC7154	Directional Coupler (0.8-4.2 GHz)	n/a	n/a
00078	Pasternack	PE2214-20	Directional Coupler (1-18 GHz)	n/a	n/a
00106	Amplifier Research	5S1G4	Power Amplifier (5W, 800MHz-4.2GHz)	n/a	n/a
00041	Amplifier Research	10W1000C	Power Amplifier (0.5 - 1 GHz)	n/a	n/a
00110	Gigatronics	8652A	Power Meter	12Apr06	12Apr07
00012	Gigatronics	80701A	Power Sensor	22Jan07	22Jan08
80012	Agilent	8960A	Radio Communications Test Set	13Dec06	12Jan09

Company:	Itroni	x Corporation	FCC ID:	KBCIX-AC595	5 IC ID: 1943A-AC595		17	TRONIX	
Model:	Model: IX-AC595 DUT Type:		Dual-Band C	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC				A GENERAL DYNAMICS COMPANY	
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Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS	S-132, RSS-133	
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

C.5 MEASUREMENT EQUIPMENT SETUP

MEASUREMENT EQUIPMENT CONNECTIONS For the field strength measurements, the measurement equipment was connected as shown in C.6. A number of antennas were used to cover the applicable frequency range tested. The ranges in which each antenna was used are shown below. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission being investigated.

Frequency Range	RX Antenna	TX Antenna
30 MHz - 1GHz	Bilog	Dipole
1 GHz - 18 GHz	ETS 3115 Horn	ETS 3115 Horn
18 GHz - 20 GHz	Waveline 899 Horn	Waveline 899 Horn

For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:

MEASUREMENT EQUIPMENT SETTINGS

Mode	RBW	VBW	Detector	
	kHz	kHz		
Cellular < 1 GHz	100	300	Peak*	
Cellular > 1 GHz	1000	1000	Peak*	
PCS	1000	1000	Peak*	

^{*} For measurements made below 1 GHz where the peak emission exceeded the average limit, a Quasipeak measurement was made. For measurements above 1 GHz where the peak emission exceeded the average limit, an average measurement was made using video averaging.

Figure C.6-1 - Setup Drawing Spectrum Analyzer * Used for >2GHz Figure C.6-1 - Setup Drawing Tor 3 meters 1 - 4 meters

C.7 DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high channels transmitting in the cellular and PCS bands at maximum power level as described in Appendix A.

Company:	Itroni	x Corporation	FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	17	TRONIX	
Model:	IX-AC5	95 DUT Type:	Dual-Band C	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC				SENERAL DYNAMICS COMPANY	
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS	S-132, RSS-133
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

FCC22.917

15-Feb-07

20-Feb-07

C.8 TEST RESULTS

C.8.1 Spurious Emissions

C.8.1.1 Cellular Spurious Emissions

Project Number: 805 Standard: Company: Itronix Test Start Date: IX325 w AC595 Test End Date:

						Chan	nel 1013					
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Н	3	none	1013	1649.40	63.02	31.40	n/a	n/a	n/a	94.0*	31.0*	PASS*
Н	3	none	1013	2474.10	52.31	39.63	n/a	n/a	n/a	94.0*	41.7*	PASS*
Н	3	none	1013	3298.80	54.56	38.05	n/a	n/a	n/a	94.0*	39.4*	PASS*
Н	3	none	1013	4123.50	56.35	36.70	n/a	n/a	n/a	94.0*	37.6*	PASS*
Н	3	none	1013	4948.20	59.51	37.77	n/a	n/a	n/a	94.0*	34.5*	PASS*
Н	3	none	1013	5772.90	64.08	40.10	n/a	n/a	n/a	94.0*	29.9*	PASS*
Н	3	none	1013	6597.60	61.05	35.75	n/a	n/a	n/a	94.0*	32.9*	PASS*
Н	3	none	1013	7422.30	63.39	35.96	n/a	n/a	n/a	94.0*	30.6*	PASS*
Н	3	none	1013	8247.00	65.03	35.08	n/a	n/a	n/a	94.0*	29.0*	PASS*
V	3	none	1013	1649.40	50.82	19.20	n/a	n/a	n/a	94.0*	43.2*	PASS*
V	3	none	1013	2474.10	51.63	38.95	n/a	n/a	n/a	94.0*	42.4*	PASS*
٧	3	none	1013	3298.80	53.73	37.22	n/a	n/a	n/a	94.0*	40.3*	PASS*
V	3	none	1013	4123.50	58.26	38.61	n/a	n/a	n/a	94.0*	35.7*	PASS*
٧	3	none	1013	4948.20	58.96	37.22	n/a	n/a	n/a	94.0*	35.0*	PASS*
V	3	none	1013	5772.90	67.38	43.40	n/a	n/a	n/a	94.0*	26.6*	PASS*
V	3	none	1013	6597.60	61.18	35.88	n/a	n/a	n/a	94.0*	32.8*	PASS*
٧	3	none	1013	7422.30	65.35	37.92	n/a	n/a	n/a	94.0*	28.6*	PASS*
V	3	none	1013	8247.00	64.88	34.93	n/a	n/a	n/a	94.0*	29.1*	PASS*

^{*}The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the EUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.



Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007	
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133		
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874	

C.8.1.2 Cellular Spurious Emissions



 Project Number:
 805
 Standard:
 FCC22.917

 Company:
 Itronix
 Test Start Date:
 15-Feb-07

 Product:
 IX325 w AC595
 Test End Date:
 20-Feb-07

						Chan	nel 384					
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Н	3	none	384	1673.04	66.45	34.70	n/a	n/a	n/a	94.0*	27.6*	PASS*
Н	3	none	384	2509.56	51.61	38.81	n/a	n/a	n/a	94.0*	42.4*	PASS*
Н	3	none	384	3346.08	54.04	37.33	n/a	n/a	n/a	94.0*	40.0*	PASS*
Н	3	none	384	4182.60	59.75	39.96	n/a	n/a	n/a	94.0*	34.2*	PASS*
Н	3	none	384	5019.12	58.50	36.46	n/a	n/a	n/a	94.0*	35.5*	PASS*
Н	3	none	384	5855.64	60.53	36.52	n/a	n/a	n/a	94.0*	33.5*	PASS*
Н	3	none	384	6692.16	61.08	35.61	n/a	n/a	n/a	94.0*	32.9*	PASS*
Н	3	none	384	7528.68	64.11	36.37	n/a	n/a	n/a	94.0*	29.9*	PASS*
Н	3	none	384	8365.20	65.42	35.11	n/a	n/a	n/a	94.0*	28.6*	PASS*
V	3	none	384	1673.04	57.15	25.40	n/a	n/a	n/a	94.0*	36.9*	PASS*
V	3	none	384	2509.56	51.39	38.59	n/a	n/a	n/a	94.0*	42.6*	PASS*
٧	3	none	384	3346.08	54.14	37.43	n/a	n/a	n/a	94.0*	39.9*	PASS*
٧	3	none	384	4182.60	56.26	36.47	n/a	n/a	n/a	94.0*	37.7*	PASS*
٧	3	none	384	5019.12	59.18	37.14	n/a	n/a	n/a	94.0*	34.8*	PASS*
٧	3	none	384	5855.64	60.88	36.87	n/a	n/a	n/a	94.0*	33.1*	PASS*
٧	3	none	384	6692.16	61.50	36.03	n/a	n/a	n/a	94.0*	32.5*	PASS*
٧	3	none	384	7528.68	65.59	37.85	n/a	n/a	n/a	94.0*	28.4*	PASS*
٧	3	none	384	8365.20	64.73	34.42	n/a	n/a	n/a	94.0*	29.3*	PASS*

^{*}The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.

Company:	: Itronix Corporation		FCC ID:	KBCIX-AC595 IC ID:		1943A-AC595	IT	RONIX
Model: IX-AC595 DUT Type:		Dual-Band C	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC					
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS	S-132, RSS-133
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

C.8.1.3 Cellular Spurious Emissions



 Project Number:
 805
 Standard:
 FCC22.917

 Company:
 Itronix
 Test Start Date:
 15-Feb-07

 Product:
 IX325 w AC595
 Test End Date:
 20-Feb-07

						Char	nel 777					
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Н	3	none	777	1696.62	68.02	36.10	n/a	n/a	n/a	94.0*	26.0*	PASS*
Н	3	none	777	2544.93	51.42	38.42	n/a	n/a	n/a	94.0*	42.6*	PASS*
Н	3	none	777	3393.24	53.65	36.75	n/a	n/a	n/a	94.0*	40.3*	PASS*
Н	3	none	777	4241.55	56.36	36.55	n/a	n/a	n/a	94.0*	37.6*	PASS*
Н	3	none	777	5089.86	58.94	36.68	n/a	n/a	n/a	94.0*	35.1*	PASS*
Н	3	none	777	5938.17	60.41	36.33	n/a	n/a	n/a	94.0*	33.6*	PASS*
Н	3	none	777	6786.48	62.53	36.72	n/a	n/a	n/a	94.0*	31.5*	PASS*
Н	3	none	777	7634.79	63.85	35.76	n/a	n/a	n/a	94.0*	30.2*	PASS*
Н	3	none	777	8483.10	64.98	34.55	n/a	n/a	n/a	94.0*	29.0*	PASS*
V	3	none	777	1696.62	56.51	24.60	n/a	n/a	n/a	94.0*	37.5*	PASS*
٧	3	none	777	2544.93	51.12	38.12	n/a	n/a	n/a	94.0*	42.9*	PASS*
٧	3	none	777	3393.24	54.10	37.20	n/a	n/a	n/a	94.0*	39.9*	PASS*
٧	3	none	777	4241.55	57.20	37.39	n/a	n/a	n/a	94.0*	36.8*	PASS*
V	3	none	777	5089.86	59.08	36.82	n/a	n/a	n/a	94.0*	34.9*	PASS*
٧	3	none	777	5938.17	61.11	37.03	n/a	n/a	n/a	94.0*	32.9*	PASS*
V	3	none	777	6786.48	63.23	37.42	n/a	n/a	n/a	94.0*	30.8*	PASS*
V	3	none	777	7634.79	64.31	36.22	n/a	n/a	n/a	94.0*	29.7*	PASS*
٧	3	none	777	8483.10	65.64	35.21	n/a	n/a	n/a	94.0*	28.4*	PASS*

^{*}The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.

ĺ	Company:	Itron	ronix Corporation		FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	17	TRONIX		
	Model:	IX-AC5	95	DUT Type:	Dual-Band C	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC				NEBAL DYNAMICS COMPANY		
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007	
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-13		
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874	

C.8.1.4 PCS Spurious Emissions



 Project Number:
 805
 Standard:
 FCC24.238

 Company:
 Itronix
 Test Start Date:
 15-Feb-07

 Product:
 IX325 w AC595
 Test End Date:
 20-Feb-07

	Channel 25											
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Н	3	none	25	3702.50	73.76	55.51	n/a	n/a	n/a	94.0*	20.2*	PASS*
Н	3	none	25	3702.50	52.35	34.10	n/a	n/a	n/a	94.0*	41.7*	PASS*
Н	3	none	25	5553.75	76.95	52.93	n/a	n/a	n/a	94.0*	17.1*	PASS*
Н	3	none	25	5553.75	59.03	35.01	n/a	n/a	n/a	94.0*	35.0*	PASS*
Н	3	none	25	7405.00	76.07	48.71	n/a	n/a	n/a	94.0*	17.9*	PASS*
Н	3	none	25	7405.00	59.40	32.04	n/a	n/a	n/a	94.0*	34.6*	PASS*
Н	3	none	25	9256.25	69.09	38.02	n/a	n/a	n/a	94.0*	24.9*	PASS*
Н	1	none	25	11107.50	71.07	46.57	n/a	n/a	n/a	103.5*	32.5*	PASS*
Н	1	none	25	12958.75	69.68	43.28	n/a	n/a	n/a	103.5*	33.9*	PASS*
Н	1	none	25	14810.00	64.36	36.20	n/a	n/a	n/a	103.5*	39.2*	PASS*
Н	1	none	25	16661.25	62.16	35.47	n/a	n/a	n/a	103.5*	41.4*	PASS*
Н	1	none	25	18512.50	51.95	35.21	n/a	n/a	n/a	103.5*	51.6*	PASS*
V	3	none	25	3702.50	66.07	47.82	n/a	n/a	n/a	94.0*	27.9*	PASS*
V	3	none	25	5553.75	72.18	48.16	n/a	n/a	n/a	94.0*	21.8*	PASS*
V	3	none	25	5553.75	58.12	34.10	n/a	n/a	n/a	94.0*	35.9*	PASS*
V	3	none	25	7405.00	66.59	39.23	n/a	n/a	n/a	94.0*	27.4*	PASS*
V	3	none	25	9256.25	68.04	36.97	n/a	n/a	n/a	94.0*	26.0*	PASS*
V	1	none	25	11107.50	68.87	44.37	n/a	n/a	n/a	103.5*	34.7*	PASS*
V	1	none	25	12958.75	62.13	35.73	n/a	n/a	n/a	103.5*	41.4*	PASS*
V	1	none	25	14810.00	64.10	35.94	n/a	n/a	n/a	103.5*	39.4*	PASS*
V	1	none	25	16661.25	62.07	35.38	n/a	n/a	n/a	103.5*	41.5*	PASS*
٧	1	none	25	18512.50	51.58	34.84	n/a	n/a	n/a	103.5*	52.0*	PASS*

^{*}The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.

Company:	Itron	ronix Corporation		FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	17	TRONIX	
Model:	IX-AC5	95	DUT Type:	Dual-Band C	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC					
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007	
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0	
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133		
Test Lab Registration(s):	FCC Lab Registration #714830			

C.8.1.5 PCS Spurious Emissions



Project Number: 805 Standard: FCC24.238 Company: Test Start Date: 15-Feb-07 Itronix Product: IX325 w AC595 Test End Date: 20-Feb-07

	Channel 600											
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Η	3	none	600	3760.00	74.90	56.51	n/a	n/a	n/a	94.0*	19.1*	PASS*
Н	3	none	600	3760.00	58.32	39.93	n/a	n/a	n/a	94.0*	35.7*	PASS*
Н	3	none	600	5640.00	76.73	52.71	n/a	n/a	n/a	94.0*	17.3*	PASS*
Н	3	none	600	5640.00	61.88	37.86	n/a	n/a	n/a	94.0*	32.1*	PASS*
Н	3	none	600	7520.00	76.32	48.58	n/a	n/a	n/a	94.0*	17.7*	PASS*
Н	3	none	600	7520.00	62.30	34.56	n/a	n/a	n/a	94.0*	31.7*	PASS*
Н	3	none	600	9400.00	75.87	44.98	n/a	n/a	n/a	94.0*	18.1*	PASS*
Н	3	none	600	9400.00	62.87	31.98	n/a	n/a	n/a	94.0*	31.1*	PASS*
Н	1	none	600	11280.00	82.97	58.22	n/a	n/a	n/a	103.5*	20.6*	PASS*
Н	1	none	600	11280.00	59.80	35.05	n/a	n/a	n/a	103.5*	43.7*	PASS*
Н	1	none	600	13160.00	60.62	33.62	n/a	n/a	n/a	103.5*	42.9*	PASS*
Н	1	none	600	15040.00	63.46	36.21	n/a	n/a	n/a	103.5*	40.1*	PASS*
Н	1	none	600	16920.00	63.75	35.74	n/a	n/a	n/a	103.5*	39.8*	PASS*
Н	1	none	600	18800.00	51.89	35.20	n/a	n/a	n/a	103.5*	51.6*	PASS*
V	3	none	600	3760.00	66.74	48.35	n/a	n/a	n/a	94.0*	27.3*	PASS*
V	3	none	600	5640.00	74.65	50.63	n/a	n/a	n/a	94.0*	19.4*	PASS*
V	3	none	600	5640.00	59.18	35.16	n/a	n/a	n/a	94.0*	34.8*	PASS*
V	3	none	600	7520.00	66.08	38.34	n/a	n/a	n/a	94.0*	27.9*	PASS*
٧	3	none	600	9400.00	67.62	36.73	n/a	n/a	n/a	94.0*	26.4*	PASS*
٧	1	none	600	11280.00	74.27	49.52	n/a	n/a	n/a	103.5*	29.3*	PASS*
٧	1	none	600	13160.00	60.65	33.65	n/a	n/a	n/a	103.5*	42.9*	PASS*
٧	1	none	600	15040.00	63.05	35.80	n/a	n/a	n/a	103.5*	40.5*	PASS*
٧	1	none	600	16920.00	63.47	35.46	n/a	n/a	n/a	103.5*	40.1*	PASS*
٧	1	none	600	18800.00	52.04	35.35	n/a	n/a	n/a	103.5*	51.5*	PASS*

^{*}The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the DUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.

Company:	Itronix Corporation			FCC ID: KBCIX-AC595 IC ID: 1943A-AC59				17	ΓR
Model: IX-AC595		95	DUT Type:	Dual-Band C	DMA/EV-DO PCMCIA	Modem instal	led in IX325 Tablet PC		NEBAL D
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007	
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.: Revision		
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-13		
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

C.8.1.6 PCS Spurious Emissions



 Project Number:
 805
 Standard:
 FCC24.238

 Company:
 Itronix
 Test Start Date:
 15-Feb-07

 Product:
 IX325 w AC595
 Test End Date:
 20-Feb-07

	Channel 1175											
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fail
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Н	3	none	1175	3817.50	73.88	55.12	n/a	n/a	n/a	94.0*	20.1*	PASS*
Н	3	none	1175	3817.50	58.37	39.61	n/a	n/a	n/a	94.0*	35.6*	PASS*
Н	3	none	1175	5726.25	74.97	51.02	n/a	n/a	n/a	94.0*	19.0*	PASS*
Н	3	none	1175	5726.25	61.77	37.82	n/a	n/a	n/a	94.0*	32.2*	PASS*
Н	3	none	1175	7635.00	76.85	48.76	n/a	n/a	n/a	94.0*	17.1*	PASS*
Н	3	none	1175	7635.00	60.24	32.15	n/a	n/a	n/a	94.0*	33.8*	PASS*
Н	3	none	1175	9543.75	73.86	42.51	n/a	n/a	n/a	94.0*	20.1*	PASS*
Н	3	none	1175	9543.75	62.29	30.94	n/a	n/a	n/a	94.0*	31.7*	PASS*
Н	1	none	1175	11452.50	84.38	59.39	n/a	n/a	n/a	103.5*	19.2*	PASS*
Н	1	none	1175	11452.50	62.93	37.94	n/a	n/a	n/a	103.5*	40.6*	PASS*
Н	1	none	1175	13361.25	72.20	44.58	n/a	n/a	n/a	103.5*	31.3*	PASS*
Н	1	none	1175	15270.00	62.40	36.10	n/a	n/a	n/a	103.5*	41.1*	PASS*
Н	1	none	1175	17178.75	64.48	35.32	n/a	n/a	n/a	103.5*	39.1*	PASS*
Н	1	none	1175	19087.50	51.42	34.76	n/a	n/a	n/a	103.5*	52.1*	PASS*
V	3	none	1175	3817.50	78.61	59.85	n/a	n/a	n/a	94.0*	15.4*	PASS*
V	3	none	1175	3817.50	62.15	43.39	n/a	n/a	n/a	94.0*	31.9*	PASS*
V	3	none	1175	5726.25	76.97	53.02	n/a	n/a	n/a	94.0*	17.0*	PASS*
V	3	none	1175	5726.25	62.57	38.62	n/a	n/a	n/a	94.0*	31.4*	PASS*
V	3	none	1175	7635.00	77.60	49.51	n/a	n/a	n/a	94.0*	16.4*	PASS*
V	3	none	1175	7635.00	60.72	32.63	n/a	n/a	n/a	94.0*	33.3*	PASS*
V	3	none	1175	9543.75	76.01	44.66	n/a	n/a	n/a	94.0*	18.0*	PASS*
V	3	none	1175	9543.75	60.90	29.55	n/a	n/a	n/a	94.0*	33.1*	PASS*
V	1	none	1175	11452.50	79.65	54.66	n/a	n/a	n/a	103.5*	23.9*	PASS*
٧	1	none	1175	13361.25	68.26	40.64	n/a	n/a	n/a	103.5*	35.3*	PASS*
٧	1	none	1175	15270.00	61.78	35.48	n/a	n/a	n/a	103.5*	41.8*	PASS*
٧	1	none	1175	17178.75	64.54	35.38	n/a	n/a	n/a	103.5*	39.0*	PASS*
٧	1	none	1175	19087.50	51.58	34.92	n/a	n/a	n/a	103.5*	52.0*	PASS*

^{*}The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10th harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the EUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.

ſ	Company: Itronix Corporation			rporation	FCC ID:	KBCIX-AC595	IC ID:	1943A-AC595	17	TRONIX
	Model: IX-AC595 D		DUT Type:	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC					A GENERAL DYNAMICS COMPANY	
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Test Report Serial No.:	010907KBC-T805-E24C	Report Issue Date:	April 16, 2007
Date(s) of Evaluation:	January 18 - February 20, 2007	Report Revision No.:	Revision 1.0
Test Standard(s):	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-1	
Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #38	

C.9 PASS/FAIL

In reference to the results shown in C.8, the DUT passes the requirements as stated in the reference standards as follows:

FCC 22.917 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC 24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

C.10SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watson EMC Manager Celltech Labs Inc.

February 20, 2007

Spenier Watson

Date



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Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #387	

END OF DOCUMENT

Con	mpany:	Itroni	x Corporation	Corporation FCC ID: KBCIX-AC595 IC ID: 1943A-AC595				ITRONIX [®]		
M	Model: IX-AC595		95 DUT Type:	Dual-Band CDMA/EV-DO PCMCIA Modem installed in IX325 Tablet PC					A GENERAL DYNAMICS COMPANY	
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