

Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	Issue 1.0		
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

RF EXPOSURE EVALUATION

SPECIFIC ABSORPTION RATE

SAR TEST REPORT

FOR THE

ITRONIX RUGGED TABLET PC MODEL: IX325-AC775IWL
WITH
SIERRA WIRELESS AIRCARD 775 DUAL-BAND GSM GPRS/EDGE PCMCIA MODEM

FCC ID: KBCIX325-AC775IWL

IC: 1943A-IX325e

Test Report Serial Number 060605KBC-T645-S24G Issue 1.0

Test Report Issue Date
September 01, 2005

Celltech Compliance Testing & Engineering Lab
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Test Report Prepared by:

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Test Report Approved By:

Jonathan Hughes General Manager Celltech Labs Inc.

App	licant:	Itronix Corporation FCC ID: KBCIX325-AC775IWL IC ID: 1943A-IX325e		⊚ITRONIX				
Mo	odel:	IX325-AC775I	/L F	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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DECLARATION OF COMPLIANCE SAR RF EXPOSURE EVALUATION

Test Lab

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KBCIX325-AC775IWL

IC IDENTIFIER: 1943A-IX325e Model(s): IX325-AC775IWL

Rule Part(s): FCC 47 CFR §2.1093; IC RSS-102 Issue 1 (Provisional)
Test Procedure(s): FCC OET Bulletin 65, Supplement C (Edition 01-01)

FCC Device Classification: PCS Licensed Transmitter (PCB)

IC Device Classification: 2 GHz Personal Communication Services (RSS-133 Issue 3)

800 MHz Cellular Telephones Employing New Technologies (RSS-132 Issue 1)

Applicant Information

ITRONIX CORPORATION

801 South Stevens Street

Spokane, WA 99204

United States

Device Description: Rugged Tablet PC

Internal Transmitter: Sierra Wireless AirCard 775 Dual-Band PCS/Cellular GSM GPRS/EDGE PCMCIA Modem

Modulation Type(s): GMSK, 8-PSK

Tx Frequency Range(s): 1850.2 - 1909.8 MHz (PCS Band) 824.2 - 848.8 MHz (Cellular Band)

Max. RF Output Power Tested: 29.0 dBm (0.794 Watts) Peak Conducted (PCS GPRS) 32.0 dBm (1.58 Watts) Peak Conducted (Cellular GPRS)

Max. No. of Time Slots Tested: 4 (Class 12)

Max. Duty Cycle Tested: 50 % (Source-Based Time-Averaged)

Max. SBTA RF Output Power Tested: 26.0 dBm (0.398 Watts) Peak Conducted (PCS GPRS)

29.0 dBm (0.794 Watts) Peak Conducted (Cellular GPRS)

Power Source(s) Tested: Internal Lithium-ion Battery - 11.1 V, 3600 mAh (Model: T8M-E)

External Second Lithium-ion Battery - 11.1 V, 3600 mAh (Model: T8S-E)

75 W AC Power Adapter (Delta Electronics Model: ADP-75FB B)

Antenna Type(s) Tested: External Monopole (AirCard 775 Modem)

Max. SAR Level(s) Evaluated: 0.646 W/kg (1g average) - PCS Band - Bottom Side of Tablet PC

1.05 W/kg (1g average) - Cellular Band - Bottom Side of Tablet PC

Celltech Labs Inc. declares under its sole responsibility that this wireless device was compliant with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01) and Industry Canada RSS-102 Issue 1 (Provisional) for the General Population / Uncontrolled Exposure environment. All measurements were performed in accordance with the SAR system manufacturer recommendations.

I attest to the accuracy of data. All measurements were performed by me or were made 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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Tested By:

Sean Johnston
Compliance Technologist
Celltech Labs Inc.

Spencer Watson

Reviewed By:

Senior Compliance Technologist

Spencer Watson

Celltech Labs Inc.

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Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII KUILK
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Test Report Serial No.:	060605KBC-T64	Issue I	Date:	Sept. 01, 2005		
Dates of Evaluation:	April 13-14, May 0	Report Issue:			Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093			IC RSS-102

TABLE OF CONTENTS	
1.0 INTRODUCTION	4
2.0 DESCRIPTION of DEVICE UNDER TEST (DUT)	4
3.0 SAR MEASUREMENT SYSTEM	5
4.0 MEASUREMENT SUMMARY	6
5.0 DETAILS OF SAR EVALUATION	8
6.0 EVALUATION PROCEDURES	9
7.0 SYSTEM PERFORMANCE CHECK	10
8.0 SIMULATED EQUIVALENT TISSUES	11
9.0 SAR SAFETY LIMITS	11
10.0 ROBOT SYSTEM SPECIFICATIONS	12
11.0 PROBE SPECIFICATION (ET3DV6)	13
12.0 SAM PHANTOM V4.0C	13
13.0 PLANAR PHANTOM	13
14.0 DEVICE HOLDER	13
15.0 TEST EQUIPMENT LIST	14
16.0 MEASUREMENT UNCERTAINTIES	
17.0 REFERENCES	17
APPENDIX A - SAR MEASUREMENT DATA	18
APPENDIX B - SYSTEM PERFORMANCE CHECK DATA	35
APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS	44
APPENDIX D - SAR TEST SETUP PHOTOGRAPHS	49
APPENDIX E - SYSTEM VALIDATION	56
APPENDIX F - PROBE CALIBRATION	57
APPENDIX G - SAM PHANTOM CERTIFICATE OF CONFORMITY	58
APPENDIX H - PLANAR PHANTOM CERTIFICATE OF CONFORMITY	59

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T645-S24G			ssue Date:	Se	Sept. 01, 2005		
Dates of Evaluation:	April 13-14, May 03 & 09, 2005			Report Issu	ue:	Issue 1.0		
Type of Evaluation:	RF Exposure	SAR		FCC 2.1093		IC RSS-102		

1.0 INTRODUCTION

This measurement report demonstrates that ITRONIX CORPORATION Model: IX325-AC775IWL Rugged Tablet PC FCC ID: KBCIX325-AC775IWL incorporating the Sierra Wireless AirCard 775 Dual-Band PCS/Cellular GSM GPRS/EDGE PCMCIA Modem, complies with the SAR (Specific Absorption Rate) RF exposure requirements specified in FCC 47 CFR §2.1093 (see reference [1]), and Health Canada's Safety Code 6 (see reference [2]) for the General Population / Uncontrolled Exposure environment. The test procedures described in FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3]), and IC RSS-102 Issue 1 (Provisional) (see reference [4]), were employed. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the rules are included within this test report.

2.0 DESCRIPTION of DEVICE UNDER TEST (DUT)

FCC Rule Part(s)	47	CFR §2.1093		ı	C R	ule Part(s)	R	SS-102 Issue 1 (Pr	ovisional)	
Test Procedure(s)			FCC O	ET Bulle	etin (65, Supplement C	(01-0	1)		
FCC Device Classification		PCS Licen	sed Tran	smitter (PCI	В)		24E, 22H		
IC Davies Classification		2 GHz Person	al Commu	unication	Se	rvices		RSS 133 Issue	e 3	
IC Device Classification	800MHz	Cellular Teleph	nones Em	ploying	Nev	v Technologies		RSS-132 Issu	e 1	
Device Description				Rı	ıgge	ed Tablet PC				
Internal Transmitter(s)	Sierra	Sierra Wireless AirCard 775 Dual-Band PCS/Cellular GSM GPRS/EDGE PCMCIA Mode				1odem				
FCC IDENTIFIER	KBCI	X325-AC775IV	/ L	- 1	C IE	DENTIFIER		1943A-IX325	ie –	
Model(s)				D	(325	5-AC775IWL				
Serial No.(s)	ZZGEG5	074ZZ9799		IX3	25 ⁻	Tablet PC		Identical Pro	totype	
Serial No.(5)	X041228	300475010		A	AirCard 775			Production	Unit	
Mode(s) of Operation	Dual-B	and GSM	G	PRS	EDGE PO			PCS / Cell	PCS / Cellular	
Tx Frequency Range(s)	1850.2 -	1909.8 MHz	PCS	Band	824.2 - 848.8 MHz			Cellular B	and	
	29.1 dBm	1850.2 MHz	PCS G	SPRS	Sc	ource-Based Time-A	vera	ged Cond. Power:	26.1 dBm	
	29.0 dBm	1880.0 MHz	PCS G	SPRS	Source-Based Time-Averaged Cond. Power: 2			26.0 dBm		
Max. Peak Conducted RF Output Power Level(s)	29.2 dBm	1909.8 MHz	PCS G	SPRS	Source-Based Time-Averaged Cond. Power: 2			26.2 dBm		
Measured	31.8 dBm	824.2 MHz	Cellular	GPRS	Sc	ource-Based Time-A	vera	ged Cond. Power:	28.8 dBm	
	31.9 dBm	836.6 MHz	Cellular	GPRS	Sc	ource-Based Time-A	vera	ged Cond. Power:	28.9 dBm	
	32.0 dBm	848.8 MHz	Cellular	GPRS	Sc	ource-Based Time-A	vera	ged Cond. Power:	29.0 dBm	
Max. Duty Cycle Tested		50 %				Source-l	3ase	d Time-Averaged		
Antenna Type(s) Tested	Ext	ernal	Mono	pole	At	tached to AirCard 7	775	Dual-Band GPF	RS/EDGE	
Device Position(s) Tested				Botto	m S	ide of Tablet PC				
	Pos	ition 1	Closed	l 180°		Pivot Closed		Antenna 180°	to card	
Antenna Positions Tested (AirCard 775 External Monopole)	Pos	ition 2	Open	180°		Pivot Open		Antenna 180°	to card	
	Pos	ition 3	Open	90°		Pivot Open		Antenna 90°	to card	
	Inte	rnal Lithium-ior	n Battery			11.1 V, 3600 mAh		Model: T8	M-E	
Power Source(s) Tested	External	Second Lithiu	m-ion Bat	tery		11.1 V, 3600 mAh		Model: T8	S-E	
	Delta I	Electronics Pov	ver Adapt	er		75 Watts AC		Model: ADP-	75FB B	

Applicant:	Itronix Corporation FCC ID: KBCIX325-AC775IWL IC ID: 1943A-IX325e				ITRONIX	
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII ROMA
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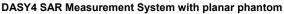


Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005		
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3.0 SAR MEASUREMENT SYSTEM

Celltech Labs Inc. SAR measurement facility utilizes the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, robot controller, computer, near-field probe, probe alignment sensor, specific anthropomorphic mannequin (SAM) phantom, and various planar phantoms for brain and/or body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electrooptical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the DASY4 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the DASY4 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.







DASY4 SAR Measurement System with SAM phantom

	Applicant:	pplicant: Itronix Corporation		KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
	Model:	IX325-AC775IWL	Rugged Tablet PC with PCS/Cellular GSM GPI			DGE PCMCIA Modem	WII NOWA
Γ	2005 Celltech La	Inc 5 of 59					



Test Report Serial No.:	060605KBC-T64	Issue Date:	S	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 0	5 Report Is	sue:	Issue 1.0
Type of Evaluation:	RF Exposure	FCC 2.1093	3	IC RSS-102

4.0 MEASUREMENT SUMMARY

	POF	v (SVD	E\/ALI	IATIO	N RESUL	Te		Test N	lode			PCS G	PRS Mode)
	BOL	,,,	SAK	EVAL	JATIO	N KESUL	13		Test Po	sition	1	В	ottom Sid	e of Table	et PC
Test Date	Date Test Mode (MHz) Chan. Position Source		urce	DUT Position to Planar Phantom	Sepai Dista to PI Phar (cr	ance anar ntom	Cond. Power Before Test (dBm)	SAR Drift During Test (dB)	Measured SAR 1g (W/kg)	Scaled SAR 1g (W/kg) up to 29.2 dBm Cond. Pwr.					
Apr 14	PCS GPRS	4 5	Slots	1880.0	661	Closed 180°		ernal Battery	Bottom Side	0.	.0	29.0	-0.0123	0.617	0.646
Apr 14	PCS GPRS	4 8	Slots	1880.0	661	Open 180°		ernal Battery	Bottom Side	0.	0	29.0	0.00684	0.124	0.130
Apr 14	PCS GPRS	4 5	Slots	1880.0	661	Open 90°		ernal Battery	Bottom Side	0.	.0	29.0	-0.00244	0.0438	0.0459
Apr 14	PCS GPRS	4 5	Slots	1880.0	661	Closed 180°	AC F	Power	Bottom Side	0.	.0	29.0	0.0386	0.610	0.639
May 3	lay 3 PCS GPRS 4 Slots 1880.0 661 Closed 180° External Second Li-ion Battery			Bottom Side	0.	.0	29.0	0.0300	0.314	0.329					
	ANSI / IEE					BODY: 1.6 W/kg (averaged over 1 gr				Uı	ncont		Spatial Pe posure / G	ak ieneral Po _l	oulation
Te	est Date(s)		A	April 14, 20	005	May 3, 2005			Test Date(s)			April 14	ı	May 3	Unit
				1880 MI	Hz Body	Tissue Simul	ant	Re	lative Humidity		30			30	%
Diele	ctric Constan	t	IEEI	E Target	Date	Meas.	Dev.	Atmo	spheric Pressu	ire	e 102.3			101.7	kPa
	-1		53.3	± 5%	Apr. 14 May 3		-4.9% -4.7%	Amb	ient Temperatu	re	23.1			24.1	°C
						Hz Body		Flu	id Temperature			23.1		22.6	°C
	Conductivity		IEEI	E Target	Date	Meas.	Dev.		Fluid Depth			≥ 15		≥ 15	cm
	σ (mho/m)		1.52	± 5%	Apr. 14 May 3		+2.6% -0.7%		ρ (Kg /m³)				1000)	

Note(s):

- The measurement results were obtained with the DUT tested in the conditions described in this report.
 Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in
 Appendix A.
- If the scaled SAR levels evaluated at the mid channel were ≥ 3 dB below the SAR limit, SAR evaluation for the low and high channels was optional (per FCC OET Bulletin 65, Supplement C, Edition 01-01 - see reference [3]).
- 3. The power drifts measured by the DASY4 system for the duration of the SAR evaluations were <5% from the start power.
- 4. The measured SAR levels were scaled up by + 0.2 dB to the maximum conducted power level measured in PCS band (29.2 dBm 1909.8 MHz Channel 810).
- 5. The DUT was evaluated for SAR with the internal lithium-ion battery. The maximum scaled SAR level configuration evaluated with the internal lithium-ion battery was repeated with the external second lithium-ion battery and AC power supply to show worst-case power source as shown in the above test data table.
- 6. The DUT battery was fully charged prior to each of the SAR evaluations.
- The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter check and the SAR evaluations. The temperatures reported in the table above were consistent for all measurement periods.
- 8. The dielectric parameters (permittivity and conductivity) of the simulated tissue mixture were measured prior to the SAR evaluations (see Appendix C for fluid dielectric parameter measurement data).
- 9. The SAR evaluations were performed within 24 hours of the system performance check.

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX	
Model:	IX325-AC775IWL	Rugged Table	Rugged Tablet PC with PCS/Cellular GSM GPRS/EDGE PCMCIA Modem				
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Test Report Serial No.:	060605KBC-T645-S24G			sue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 2005			Report Issu	ue:	Issue 1.0
Type of Evaluation:	RF Exposure SAR			FCC 2.1093		IC RSS-102

MEASUREMENT SUMMARY (Cont.)

	D.C	DV CA	D E\/A	LILATIO	ON DECL	што		Test N	/lode		Cellular (GPRS Mod	de
	ВС	אס זענ	KEVA	LUATIC	ON RESU	JL15		Test Po	sition	В	ottom Sid	e of Table	t PC
Test Date	Test N	<i>l</i> lode	Freq. (MHz)	Chan.	Antenna Position		Power Source	DUT Position to Planar Phantom	Separation Distance to Planar Phantom (cm)	Cond. Power Before Test (dBm)	SAR Drift During Test (dB)	Measured SAR 1g (W/kg)	Scaled SAR 1g (W/kg) up to 32.0 dBm Cond. Pwr.
Apr 13	Cellular GPRS	4 Slots	836.6	190	Closed 18		nternal on Battery	Bottom Side	0.0	31.9	0.0405	0.880	0.900
Apr 13	Cellular GPRS	4 Slots	824.2	128	Closed 18	/\ ⁰	nternal on Battery	Bottom Side	0.0	31.8	-0.00616	0.995	1.04
Apr 13	Cellular GPRS	4 Slots	848.8	251	Closed 18	n∘ i ·	nternal on Battery	Bottom Side	0.0	32.0	0.0145	0.748	0.748
Apr 13	Cellular GPRS	4 Slots	836.6	190	Open 180	0	nternal on Battery	Bottom Side	0.0	31.9	0.000145	0.444	0.454
Apr 13	Cellular GPRS	4 Slots	836.6	190	Open 90°	5	nternal on Battery	Bottom Side	0.0	31.9	0.0120	0.160	0.164
Apr 13	Cellular GPRS	4 Slots	824.2	128	Closed 18	0° A	C Power	Bottom Side	0.0	31.8	-0.0199	0.998	1.05
May 9	Cellular GPRS	4 Slots	824.2	128	Closed 18	no i	nal Second on Battery	Bottom Side	0.0	31.8	-0.0434	0.510	0.534
		EEE C95.					r: 1.6 W/kg d over 1 gr	am)	Uncon		Spatial Pea posure / G	ak eneral Pop	ulation
Tes	t Date(s)	A	pril 13, 20	05	May 9, 2	2005	Te	est Date(s)		April 13	N	/lay 9	Unit
Di	electric		835 MHz	z Body Tis	ssue Simula	ant	Relat	tive Humidity		30		33	%
	onstant	IEEE	Target	Date	Meas.	Dev.	Atmosp	heric Pressure		101.8		101.0	kPa
	€ _r	55.2	± 5%	Apr. 13 May 9	52.5 52.6	-4.9% -4.7%	Ambie	nt Temperature		23.2		23.4	°C
				835 MHz	Body		Fluid	Temperature		21.5		21.5	°C
	Conductivity σ (mho/m)	IEEE	Target	Date	Meas.	Dev.	FI	uid Depth		≥ 15		≥ 15	cm
		0.97	± 5%	Apr. 13 May 9	0.97 0.94	0.0% -3.1%	ŀ	o (Kg/m³)			1000		

Note(s):

- 1. The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
- 2. If the scaled SAR levels evaluated at the mid channel were ≥ 3 dB below the SAR limit, SAR evaluation for the low and high channels was optional (per FCC OET Bulletin 65, Supplement C, Edition 01-01 see reference [3]).
- The power drifts measured by the DASY4 system for the duration of the SAR evaluations were <5% from the start power.
- 4. The measured SAR levels were scaled up to the maximum conducted power level measured in Cellular band (32.0 dBm 848.8 MHz Channel 251).
- 5. The DUT was evaluated for SAR with the internal lithium-ion battery. The maximum scaled SAR level configuration evaluated with the internal lithium-ion battery was repeated with the external second lithium-ion battery and AC power supply to show worst-case power source as shown in the above test data table.
- 6. The DUT battery was fully charged prior to each of the SAR evaluations.
- The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter check and the SAR evaluations. The temperatures reported in the table above were consistent for all measurement periods.
- 8. The dielectric parameters (permittivity and conductivity) of the simulated tissue mixture were measured prior to the SAR evaluations (see Appendix C for fluid dielectric parameter measurement data).
- 9. The SAR evaluations were performed within 24 hours of the system performance check.

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Model:	IX325-AC775IWL	Rugged Table	Rugged Tablet PC with PCS/Cellular GSM GPRS/EDGE PCMCIA Modem				
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Test Report Serial No.:	060605KBC-T645-S24G			sue Date:	Se	ept. 01, 2005
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Type of Evaluation:	RF Exposure	SAR	F	CC 2.1093		IC RSS-102

5.0 DETAILS OF SAR EVALUATION

The ITRONIX CORPORATION Model: IX325-AC775IWL Rugged Tablet PC FCC ID: KBCIX325-AC775IWL with the Sierra Wireless AirCard 775 Dual-Band PCS/Cellular GSM GPRS/EDGE PCMCIA Modem was compliant for localized Specific Absorption Rate (Uncontrolled Exposure) based on the test provisions and conditions described below. The detailed test setup photographs are shown in Appendix D.

Body SAR Configuration

- The DUT was tested for body SAR with the bottom side of the Tablet PC placed parallel to, and touching, the outer surface of the planar phantom. The DUT was evaluated for bottom side body SAR with the AirCard 775 antenna in the "Closed 180°" position, "Open 180°" position, and "Open 90°" position (see photos at the bottom of this page).
 The DUT was evaluated for body SAR bottom side with the internal lithium-ion battery. The maximum scaled SAR
- 2. The DUT was evaluated for body SAR bottom side with the internal lithium-ion battery. The maximum scaled SAR level configuration evaluated on the bottom side of the Tablet PC with the internal lithium-ion battery was repeated with the external second lithium-ion battery and 75 W AC power adapter in the Cellular and PCS bands to show worst-case power source as shown in the test data tables (pages 5-6).
- 3. The power drifts measured by the DASY4 system for the duration of the SAR evaluations were <5%.
- 4. The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter check and the SAR evaluations. The temperatures reported were consistent for all measurement periods.
- 5. The dielectric parameters (permittivity and conductivity) of the simulated tissue mixture were measured prior to the SAR evaluations (see Appendix C for fluid dielectric parameter measurement data).
- 6. The SAR evaluations were performed within 24 hours of the system performance check.

Test Modes & Power Settings

- The conducted power levels of the DUT were measured at the AirCard 775 antenna connector prior to the SAR evaluations using a Gigatronics 8652A Universal Power Meter according to the procedures described in FCC 47 CFR §2.1046.
- 8. The DUT was controlled in test mode via internal software. SAR measurements were performed with the DUT transmitting continuously at maximum power on 4 time slots in GPRS mode (Crest factor: 2) for both PCS and cellular bands. This is the maximum output condition as the DUT is a Class 12 multi-slot GSM GPRS/EDGE modem.
- 9. The DUT battery was fully charged prior to each SAR evaluation (with DUT battery power).



Antenna "Open 90°" Position



Internal Battery



Antenna "Closed 180°" Position



External Second Battery



Antenna "Open 180°" Position

	Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	ITRONIX	
	Model:	IX325-AC775IWL	Rugged Table	Rugged Tablet PC with PCS/Cellular GSM GPRS/EDGE PCMCIA Modem				
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Iss	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

6.0 EVALUATION PROCEDURES

- a. (i) The evaluation was performed in the applicable area of the phantom depending on the type of device being tested. For devices held to the ear during normal operation, both the left and right ear positions were evaluated using the SAM phantom.
 - (ii) For body-worn and face-held devices a planar phantom was used.
- b. The SAR was determined by a pre-defined procedure within the DASY4 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 15mm x 15mm.

An area scan was determined as follows:

- c. Based on the defined area scan grid, a more detailed grid is created to increase the points by a factor of 10. The interpolation function then evaluates all field values between corresponding measurement points.
- d. A linear search is applied to find all the candidate maxima. Subsequently, all maxima are removed that are >2 dB from the global maximum. The remaining maxima are then used to position the cube scans.

A 1g and 10g spatial peak SAR was determined as follows:

- e. Extrapolation is used to find the points between the dipole center of the probe and the surface of the phantom. This data cannot be measured, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.4 mm (see probe calibration document in Appendix F). The extrapolation was based on trivariate quadratics computed from the previously calculated 3D interpolated points nearest the phantom surface.
- f. Interpolated data is used to calculate the average SAR over 1g and 10g cubes by spatially discretizing the entire measured cube. The volume used to determine the averaged SAR is a 1mm grid (42875 interpolated points).
- g. A zoom scan volume of 32 mm x 32 mm x 30 mm (5 x 5 x 7 points) centered at the peak SAR location determined from the area scan is used for all zoom scans for devices with a transmit frequency < 800 MHz. Zoom scans for frequencies ≥ 800 MHz are determined with a scan volume of 30 mm x 30 mm x 30 mm (7 x 7 x 7) to ensure complete capture of the peak spatial-average SAR.



DUT Test Setup with Internal Battery



Test Setup with External 2nd Battery



DUT Test Setup with AC Power Adapter

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX
Model:	IX325-AC775IWL	IX325-AC775IWL Rugged Tablet PC with PCS/Cellular GSM GPRS/EDGE PCMCIA Modem				
2005 Celltech La	Inc 9 of 59					



Test Report Serial No.:	060605KBC-T64	Issue Date:	S	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 0	5 Report Is	sue:	Issue 1.0
Type of Evaluation:	RF Exposure	FCC 2.1093	3	IC RSS-102

7.0 SYSTEM PERFORMANCE CHECK

Prior to the SAR evaluations a daily system check was performed at the planar section of the SAM phantom with an 835MHz dipole and a 1900MHz dipole (see Appendix E for system validation procedures). The fluid dielectric parameters (permittivity and conductivity) were measured prior to the system performance checks (see Appendix C for measured fluid dielectric parameters). A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of $\pm 10\%$ (see Appendix B for system performance check test plots).

	SYSTEM PERFORMANCE CHECK EVALUATIONS															
Test Date	Equiv.	SAR 1g (W/kg)		Dielectric Constant ε _r		Conductivity σ (mho/m)		ρ	Amb.	Fluid	Fluid	Humid.	Barom.			
	Tissue	IEEE Target	Meas.	Dev.	IEEE Target	Meas.	Dev.	IEEE Target	Meas.	Dev.	(Kg/m³)	Temp.	Temp. (°C)	Depth (cm)	(%)	Press. (kPa)
4/13/05	835MHz Brain	2.38 ±10%	2.43	+2.1%	41.5 ±5%	40.2	-3.1%	0.90 ±5%	0.90	0.0%	1000	21.6	21.3	≥ 15	30	102.0
4/14/05	1900MHz Brain	9.93 ±10%	10.8	+8.8%	40.0 ±5%	38.5	-3.8%	1.40 ±5%	1.44	+2.9%	1000	22.7	23.1	≥ 15	30	102.4
5/03/05	1900MHz Brain	9.93 ±10%	10.2	+2.7%	40.0 ±5%	38.1	-4.8%	1.40 ±5%	1.43	+2.1%	1000	23.2	22.9	≥ 15	30	101.9
5/09/05	835MHz Brain	2.38 ±10%	2.40	+0.8%	41.5 ±5%	40.3	-2.9%	0.90 ±5%	0.88	-2.2%	1000	22.7	21.4	≥ 15	33	101.1

Note(s):

1. The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter check and the system performance check. The temperatures listed in the table above were consistent for all measurement periods.

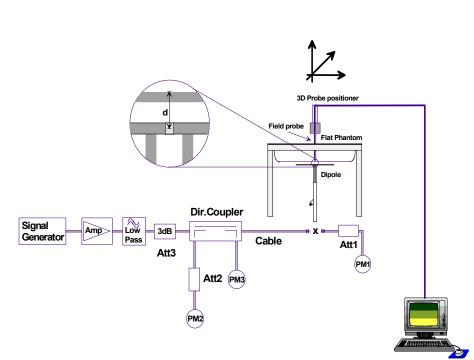


Figure 1. System Performance Check Setup Diagram



1900MHz Dipole



835MHz Dipole

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	(ITRONIX)
Model:	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	S	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		5 Report Is	sue:	Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

8.0 SIMULATED EQUIVALENT TISSUES

The 1880MHz and 1900MHz simulated equivalent tissue mixtures consist of Glycol-monobutyl, water, and salt. The 835MHz simulated equivalent tissue mixtures consist of a viscous gel using hydroxethylcellulose (HEC) gelling agent and saline solution. Preservation with a bactericide was added and visual inspection was made to ensure air bubbles were not trapped during the mixing process. The fluids were prepared according to standardized procedures and measured for dielectric parameters (permittivity and conductivity).

1880MHz & 1900MHz TISSUE MIXTURES								
INGREDIENT	1900 MHz Brain	1880 MHz Body						
INGREDIENT	System Performance Check	DUT Evaluation						
Water	55.85 %	69.85 %						
Glycol Monobutyl	44.00 %	29.89 %						
Salt	0.15 %	0.26 %						

835MHz TISSUE MIXTURES								
INGREDIENT	835 MHz Brain	835 MHz Body						
	System Performance Check	DUT Evaluation						
Water	40.71 %	53.79 %						
Sugar	56.63 %	45.13 %						
Salt	1.48 %	0.98 %						
HEC	0.99 %							
Bactericide	0.19 %	0.10 %						

9.0 SAR SAFETY LIMITS

	SAR (W/kg)				
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)			
Spatial Average (averaged over the whole body)	0.08	0.4			
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0			
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0			

Notes:

- 1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
- 2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

Applicant:	Itronix Corporatio	n FCC ID:	FCC ID: KBCIX325-AC775IWL IC ID:		1943A-IX325e	ITRONIX
Model:	Model: IX325-AC775IWL		et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

10.0 ROBOT SYSTEM SPECIFICATIONS

Specifications

POSITIONER: Stäubli Unimation Corp. Robot Model: RX60L

Repeatability: 0.02 mm

No. of axis:

Data Acquisition Electronic (DAE) System

Cell Controller

Processor: AMD Athlon XP 2400+

Clock Speed: 2.0 GHz

Operating System: Windows XP Professional

Data Converter

Features: Signal Amplifier, multiplexer, A/D converter, and control logic

Software: DASY4 software

Connecting Lines: Optical downlink for data and status info. Optical uplink for commands and clock

DASY4 Measurement Server

Function: Real-time data evaluation for field measurements and surface detection

Hardware: PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM **Connections:** COM1, COM2, DAE, Robot, Ethernet, Service Interface

E-Field Probe

Model: ET3DV6 Serial No.(s): 1590, 1387

Construction: Triangular core fiber optic detection system

Frequency: 10 MHz to 6 GHz

Linearity: ± 0.2 dB (30 MHz to 3 GHz)

Phantom(s)

Evaluation/Validation Phantom

Type: Planar Phantom **Shell Material:** Fiberglass Thickness: $2.0 \pm 0.1 \text{ mm}$ Volume: Approx. 72 liters

Validation Phantom

SAM V4.0C Type: **Shell Material: Fiberglass** Thickness: 2.0 ±0.1 mm Volume: Approx. 25 liters



Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		5 Report Issue		Issue 1.0
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

11.0 PROBE SPECIFICATION (ET3DV6)

Construction: Symmetrical design with triangular core

Built-in shielding against static charges

PEEK enclosure material (resistant to organic solvents, e.g. glycol)

Calibration: In air from 10 MHz to 2.5 GHz

In brain simulating tissue at frequencies of 900 MHz

and 1.8 GHz (accuracy ± 8%)

Frequency: 10 MHz to >6 GHz; Linearity: ±0.2 dB

(30 MHz to 3 GHz)

Directivity: ± 0.2 dB in brain tissue (rotation around probe axis)

 ± 0.4 dB in brain tissue (rotation normal to probe axis)

Dynamic Range: 5 μ W/g to >100 mW/g; Linearity: \pm 0.2 dB

Surface Detection: ± 0.2 mm repeatability in air and clear liquids over

diffuse reflecting surfaces

Dimensions: Overall length: 330 mm

Tip length: 16 mm Body diameter: 12 mm Tip diameter: 6.8 mm

Distance from probe tip to dipole centers: 2.7 mm

Application: General dosimetry up to 3 GHz

Compliance tests of portable devices



ET3DV6 E-Field Probe

12.0 SAM PHANTOM V4.0C

The SAM phantom V4.0C is a fiberglass shell phantom with a 2.0 mm (+/-0.2 mm) shell thickness for left and right head and flat planar area integrated in a wooden table. The shape of the fiberglass shell corresponds to the phantom defined by SCC34-SC2. The device holder positions are adjusted to the standard measurement positions in the three sections (see Appendix F for specifications of the SAM phantom V4.0C).



SAM Phantom

13.0 PLANAR PHANTOM

The planar phantom is a fiberglass shell phantom with a 2.0 mm (+/-0.2mm) thick device measurement area at the center of the phantom for SAR evaluations of devices with a larger surface area than the planar section of the SAM phantom. The planar phantom is integrated in a wooden table (see Appendix G for dimensions and specifications of the planar phantom).



Planar Phantom

14.0 DEVICE HOLDER

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. For evaluations of larger devices such as Laptop and Tablet PCs, a Plexiglas platform is attached to the device holder.



Device Holder

Applicant:	Itronix Corporation		FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775	SIWL R	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII NOWIA
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		5 Report Issu	ıe:	Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

15.0 TEST EQUIPMENT LIST

	TEST EQUIPMENT	ASSET NO.	SERIAL NO.		TE	CALIBRATION
USED	DESCRIPTION	7.0021 1101	5 2.1	CALIB	RATED	DUE DATE
Х	Schmid & Partner DASY4 System	-	-		-	-
х	-DASY4 Measurement Server	00158	1078	N	/A	N/A
х	-Robot	00046	599396-01	N	/A	N/A
х	-DAE3	00019	353	06J	ul04	06Jul05
	-DAE3	00018	370	25Ja	an05	25Jan06
х	-ET3DV6 E-Field Probe	00016	1387	18M	ar05	18Mar06
х	-ET3DV6 E-Field Probe	00017	1590	24M	ay04	24May05
	-EX3DV4 E-Field Probe	00125	3547	21Ja	an05	21Jan06
	-300 MHz Validation Dipole	00023	135	260	ct04	26Oct05
	-450 MHz Validation Dipole	00024	136	04N	ov04	04Nov05
х	925 MHz Validation Dipole	00022	411	Brain	30Mar05	30Mar06
	-835 MHz Validation Dipole	00022	411	Body	12Apr05	12Apr06
	-900 MHz Validation Dipole	00020	054	Brain	10Jun04	10Jun05
	-1800 MHz Validation Dipole	00021	247	Brain	08Jun04	08Jun05
х	4000 MHz Walistatian Dinata	00000	454	Brain	18Jun04	18Jun05
	-1900 MHz Validation Dipole	00032	151	Body	22Apr05	22Apr06
			4=0	Brain	30Sep04	30Sep05
	-2450 MHz Validation Dipole	00025	150	Body	22Apr05	22Apr06
		22.422	1001	Brain	11Jan05	11Jan06
	-5000 MHz Validation Dipole	00126	1031	Body	11Jan05	11Jan06
х	-SAM Phantom V4.0C	00154	1033	N/A		N/A
х	-Barski Planar Phantom	00155	03-01	N	/A	N/A
	-Plexiglas Planar Phantom	00156	161	N	/A	N/A
	-Validation Planar Phantom	00157	137	N	/A	N/A
х	HP 85070C Dielectric Probe Kit	00033	N/A	N	/A	N/A
х	ALS-PR-DIEL Dielectric Probe Kit	00160	260-00953	N	/A	N/A
х	Gigatronics 8652A Power Meter	00110	1835801	16A	pr05	16Apr06
	Circutagaine OCECA Device Meter	00000	4005007	30A	pr04	30Apr05
X	Gigatronics 8652A Power Meter	80000	1835267	29A	pr05	29Apr06
	Gigatronics 8652A Power Meter	00007	1835272		ct04	18Oct05
х	Gigatronics 80701A Power Sensor	00013	1833713	110	ct04	11Oct05
х	Gigatronics 80701A Power Sensor	00011	1833542		ct04	08Oct05
х	Gigatronics 80701A Power Sensor	00109	1834366	16Apr05		16Apr06
х	HP 8753ET Network Analyzer	00134	US39170292	04May05		04May06
	,			30Apr04		30Apr05
х	HP 8648D Signal Generator	00005	3847A00611	29Apr05		29Apr06
×	Rohde & Schwarz SMR40 Signal Generator	00006	100104	12Apr05		12Apr06
x	Amplifier Research 5S1G4 Power Amplifier	00106	26235		/A	N/A
x	Nextec NB00383 Microwave Power Amplifier	00151	0535		/A	N/A

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	sue: Issue 1.0		
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

16.0 MEASUREMENT UNCERTAINTIES

		UNCERTAINTY BUDGET FOR DEVICE EVALUATION									
Error Description	Error Description Uncertainty Value 2 Distribution Divisor Divisor		Divisor	ci 1g	Uncertainty Value ±% (1g)	V _i or V _{eff}					
Measurement System											
Probe calibration	5.95	Normal	1	1	5.95	∞					
Axial isotropy of the probe	4.7	Rectangular	1.732050808	0.7	1.9	∞					
Spherical isotropy of the probe	9.6	Rectangular	1.732050808	0.7	3.9	∞					
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞					
Boundary effects	1	Rectangular	1.732050808	1	0.6	∞					
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞					
Detection limit	1	Rectangular	1.732050808	1	0.6	∞					
Readout electronics	0.3	Normal	1	1	0.3	∞					
Response time	0.8	Rectangular	1.732050808	1	0.5	∞					
ntegration time	2.6	Rectangular	1.732050808	1	1.5	∞					
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞					
Mech. constraints of robot	0.4	Rectangular	1.732050808	1	0.2	∞					
Probe positioning	2.9	Rectangular	1.732050808	1	1.7	∞					
Extrapolation & integration	1	Rectangular	1.732050808	1	0.6	∞					
Test Sample Related											
Device positioning	2.9	Normal	1	1	2.9	12					
Device holder uncertainty	3.6	Normal	1	1	3.6	8					
Power drift	5	Rectangular	1.732050808	1	2.9	∞					
Phantom and Setup											
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞					
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞					
Liquid conductivity (measured)	2.5	Normal	1	0.64	1.6	∞					
Liquid permittivity (target)	5	Rectangular	1.732050808	0.6	1.7	∞					
Liquid permittivity (measured)	2.5	Normal	1	0.6	1.5	∞					
Combined Standard Uncertain					10.82						
Expanded Uncertainty (k=2)	i.y				21.64						

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ue: Issue 1.0		
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

MEASUREMENT UNCERTAINTIES (Cont.)

UN	CERTAINTY	BUDGET FOR	SYSTEM VALI	DATION		
Error Description	Uncertainty Value ±%	Probability Distribution	Divisor	ci 1g	Uncertainty Value ±% (1g)	V _i or V _{eff}
Measurement System						
Probe calibration	5.95	Normal	1	1	5.95	∞
Axial isotropy of the probe	4.7	Rectangular	1.732050808	1	2.7	∞
Spherical isotropy of the probe	0	Rectangular	1.732050808	1	0.0	∞
Spatial resolution	0	Rectangular	1.732050808	1	0.0	∞
Boundary effects	1	Rectangular	1.732050808	1	0.6	∞
Probe linearity	4.7	Rectangular	1.732050808	1	2.7	∞
Detection limit	1	Rectangular	1.732050808	1	0.6	∞
Readout electronics	0.3	Normal	1	1	0.3	∞
Response time	0	Rectangular	1.732050808	1	0.0	∞
Integration time	0	Rectangular	1.732050808	1	0.0	∞
RF ambient conditions	3	Rectangular	1.732050808	1	1.7	∞
Mech. constraints of robot	0.4	Rectangular	1.732050808	1	0.2	∞
Probe positioning	2.9	Rectangular	1.732050808	1	1.7	∞
Extrapolation & integration	1	Rectangular	1.732050808	1	0.6	∞
Test Sample Related						
Dipole Positioning	2	Normal	1.732050808	1	1.2	8
Power & Power Drift	4.7	Normal	1.732050808	1	2.7	8
Phantom and Setup						
Phantom uncertainty	4	Rectangular	1.732050808	1	2.3	∞
Liquid conductivity (target)	5	Rectangular	1.732050808	0.64	1.8	∞
Liquid conductivity (measured)	2.5	Normal	1	0.64	1.6	∞
Liquid permittivity (target)	5	Rectangular	1.732050808	0.6	1.7	∞
Liquid permittivity (measured)	2.5	Normal	1	0.6	1.5	∞
Combined Standard Uncertainty					9.07	
Expanded Uncertainty (k=2)					18.15	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 (see reference [5])

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Issue Date: Se		
Dates of Evaluation:	April 13-14, May 0	5 Report Iss	Report Issue:		
Type of Evaluation:	RF Exposure SAR		FCC 2.1093	3	IC RSS-102

17.0 REFERENCES

- [1] Federal Communications Commission, "Radiofrequency radiation exposure evaluation: portable devices", Rule Part 47 CFR §2.1093: 1999.
- [2] Health Canada, "Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz", Safety Code 6: 1999.
- [3] Federal Communications Commission, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, Supplement C (Edition 01-01), FCC, Washington, D.C.: June 2001.
- [4] Industry Canada, "Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields", Radio Standards Specification RSS-102 Issue 1 (Provisional): September 1999.
- [5] IEEE Standard 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques": December 2003.

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WI I ROILIX
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	sue: Issue 1.0		
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

APPENDIX A - SAR MEASUREMENT DATA

Ī	Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	(ITRONIX)
Ī	Model:	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII HOILIA
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Test Report Serial No.:	060605KBC-T645-S24G			ssue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 2005			Report Issue: Issue 1.0		
Type of Evaluation:	RF Exposure SAR			FCC 2.1093		IC RSS-102

Body SAR - PCS Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.1 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 102.3 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 29.0 dBm (Peak Conducted) Communication System: PCS GPRS (4 Time Slots) Frequency: 1880.0 MHz; Channel 661; Duty Cycle: 1:2 Medium: M1880 (σ = 1.56 mho/m; ϵ_r = 50.7; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

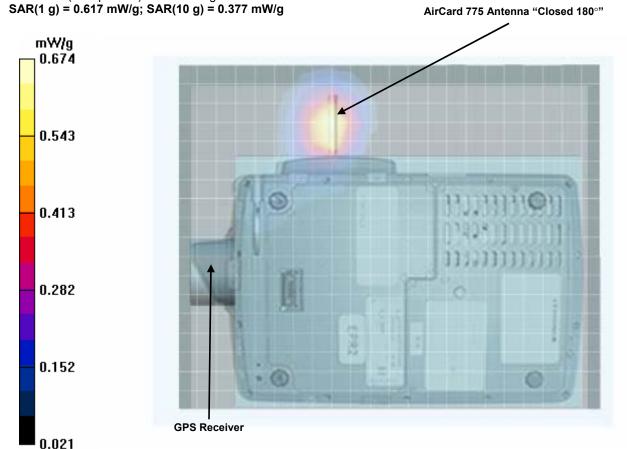
Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel /Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = -0.0123 dB

Peak SAR (extrapolated) = 0.951 W/kg

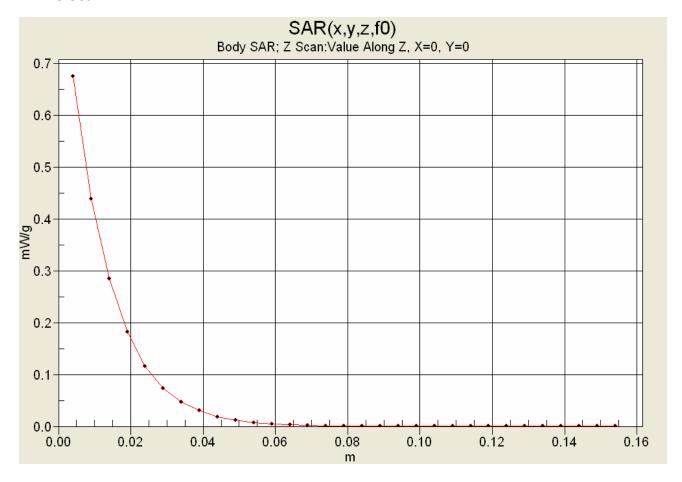


Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	(ITRONIX)
Model:	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Issue Date: Se		
Dates of Evaluation:	April 13-14, May 0	5 Report Is	Report Issue:		
Type of Evaluation:	RF Exposure SAR		FCC 2.1093	3	IC RSS-102

Z-Axis Scan



	Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
	Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WI I ROMA
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	Issue 1.0		
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Body SAR - PCS Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Open 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.1 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 102.3 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 29.0 dBm (Peak Conducted) Communication System: PCS GPRS (4 Time Slots) Frequency: 1880.0 MHz; Channel 661; Duty Cycle: 1:2 Medium: M1880 (σ = 1.56 mho/m; ϵ_r = 50.7; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

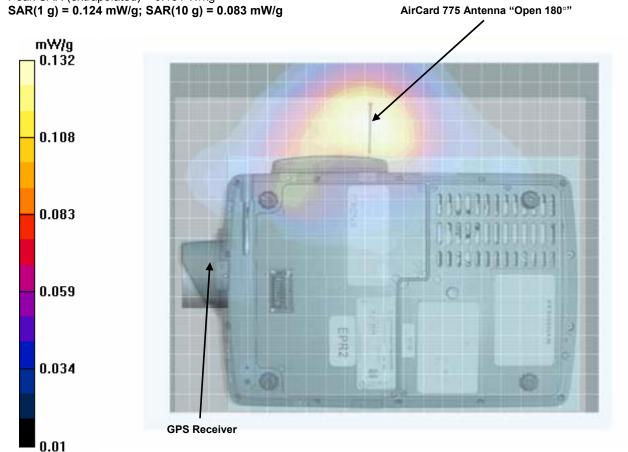
Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.87 V/m; Power Drift = 0.00684 dB

Peak SAR (extrapolated) = 0.181 W/kg



Applic	ant:	Itronix (Corporation	FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Mode	el:	IX325-A	C775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Issue Date: Se		
Dates of Evaluation:	April 13-14, May 0	5 Report Is	Issue 1.0		
Type of Evaluation:	RF Exposure SAR		FCC 2.109	3	IC RSS-102

Body SAR - PCS Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Open 90°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.1 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 102.3 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 29.0 dBm (Peak Conducted) Communication System: PCS GPRS (4 Time Slots) Frequency: 1880.0 MHz; Channel 661; Duty Cycle: 1:2 Medium: M1880 (σ = 1.56 mho/m; ϵ_r = 50.7; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

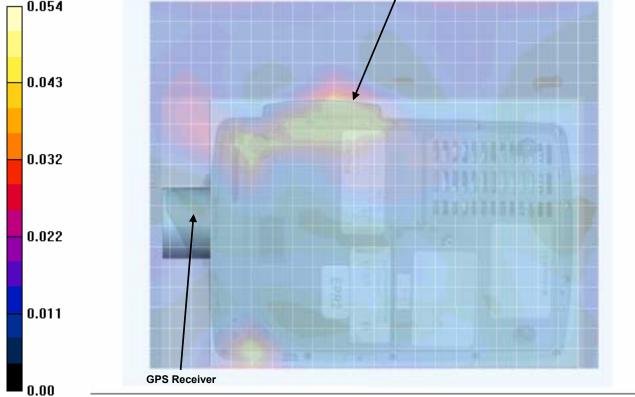
Reference Value = 5.82 V/m; Power Drift = -0.00244 dB

Peak SAR (extrapolated) = 0.132 W/kg

SAR(1 g) = 0.0438 mW/g; SAR(10 g) = 0.022 mW/g

AirCard 775 Antenna "Open 90°"

mW/g
0.054



Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII NOWA
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Test Report Serial No.:	060605KBC-T64	15-S24G	Issue Date:	Sept. 01, 2005
Dates of Evaluation:	April 13-14, May 0	3 & 09, 200	5 Report Issu	ue: Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093	IC RSS-102

Body SAR - PCS Band - GPRS Mode - AC Power - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.1 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 102.3 kPa; Humidity: 30%

75 W AC Power Adapter (Delta Electronics Model: ADP-75FB B) RF Output Power: 29.0 dBm (Peak Conducted) Communication System: PCS GPRS (4 Time Slots) Frequency: 1880.0 MHz; Channel 661; Duty Cycle: 1:2 Medium: M1880 (σ = 1.56 mho/m; ε_r = 50.7; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(4.58, 4.58, 4.58); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.8 V/m; Power Drift = 0.0386 dB

SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.376 mW/g

Peak SAR (extrapolated) = 0.940 W/kg

Dual-Band Antenna "Closed 180"

mW/g
0.661

0.533

0.405

0.277

0.149

GPS Receiver

Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T645-S24G			ssue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 03 & 09, 2005			Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR			FCC 2.1093		IC RSS-102	

Date Tested: 05/03/2005

Body SAR - PCS Band - GPRS Mode - External 2nd Battery - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 24.1 °C; Fluid Temp: 22.6 °C; Barometric Pressure: 101.7 kPa; Humidity: 30%

11.1V, 3600mAh External Second Lithium-ion Battery Pack (Model: T8S-E)

RF Output Power: 29.0 dBm (Peak Conducted) Communication System: PCS GPRS (4 Time Slots) Frequency: 1880.0 MHz; Channel 661; Duty Cycle: 1:2 Medium: M1880 (σ = 1.51 mho/m; $\epsilon_{\rm f}$ = 50.8; ρ = 1000 kg/m³)

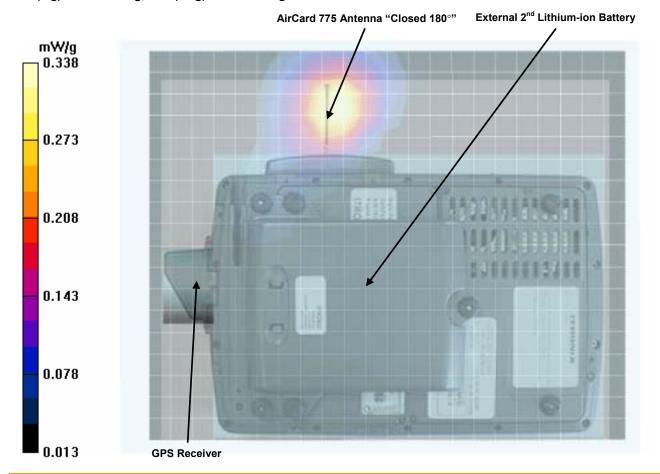
- Probe: ET3DV6 SN1387; ConvF(4.75, 4.75, 4.75); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT (External 2nd Battery) to Planar Phantom (15 mm External Battery Thickness) - Mid Channel/Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - PCS GPRS - 0.0 cm Separation Distance from Bottom of DUT (External 2nd Battery) to Planar Phantom (15 mm External Battery Thickness) - Mid Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 15.6 V/m; Power Drift = 0.0300 dB Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.314 mW/g; SAR(10 g) = 0.200 mW/g

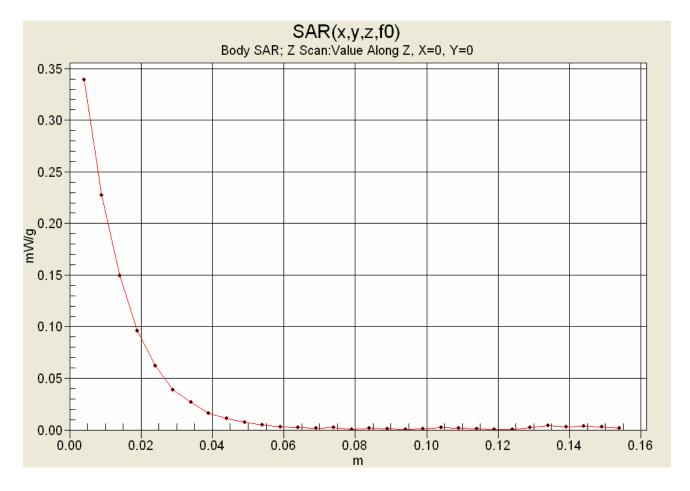


	Applicant:	Itronix Corporation	on FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
	Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	Issue 1.0		
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Z-Axis Scan



Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WI I ROIMIX
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Body SAR - Cellular Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.2 °C; Fluid Temp: 21.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 31.9 dBm (Peak Conducted) Communication System: Cellular GPRS (4 Time Slots) Frequency: 836.6 MHz; Channel 190; Duty Cycle: 1:2 Medium: M835 (σ = 0.97 mho/m; ε_r = 52.5; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

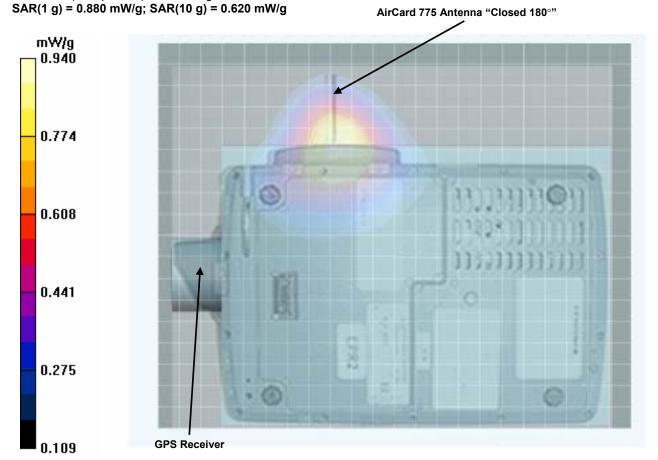
Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.4 V/m; Power Drift = 0.0405 dB

Peak SAR (extrapolated) = 1.18 W/kg



Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Body SAR - Cellular Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.2 °C; Fluid Temp: 21.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 31.8 dBm (Peak Conducted)

Communication System: Cellular GPRS (4 Time Slots) Frequency: 824.2 MHz; Channel 128; Duty Cycle: 1:2 Medium: M835 (σ = 0.97 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

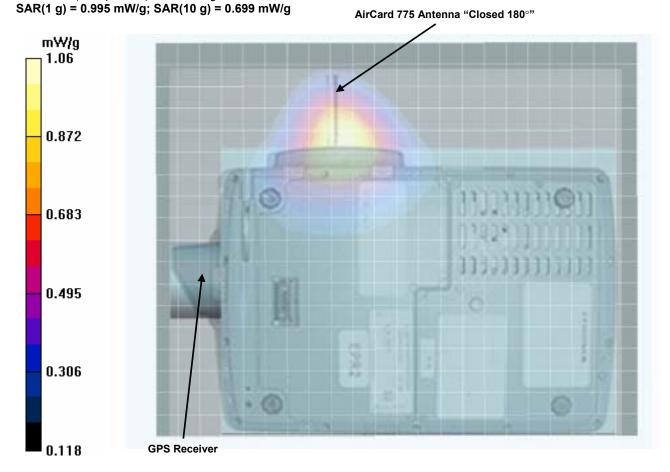
Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Low Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Low Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.6 V/m; Power Drift = -0.00616 dB

Peak SAR (extrapolated) = 1.34 W/kg



Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Iss	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Body SAR - Cellular Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.2 °C; Fluid Temp: 21.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 32.0 dBm (Peak Conducted)

Communication System: Cellular GPRS (4 Time Slots) Frequency: 848.8 MHz; Channel 251; Duty Cycle: 1:2 Medium: M835 (σ = 0.97 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

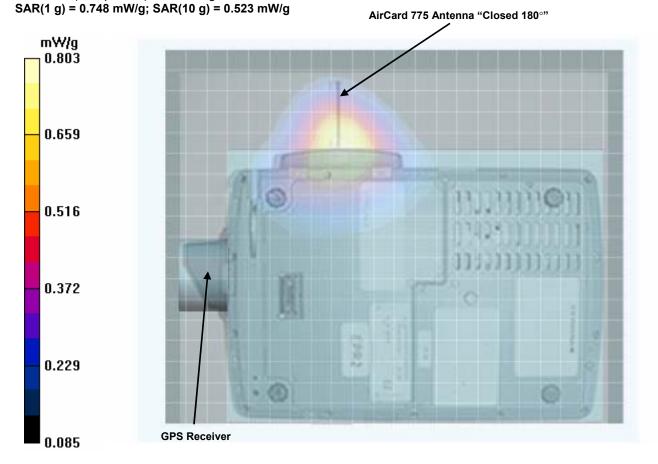
Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - High Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

 ${\bf Body\ SAR\ - Cellular\ GPRS\ - 0.0\ cm\ Separation\ Distance\ from\ Bottom\ of\ DUT\ to\ Planar\ Phantom\ -\ High\ Channel}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 28.6 V/m; Power Drift = 0.0145 dB

Peak SAR (extrapolated) = 1.02 W/kg



	Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
I	Model:	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
Ī	2005 Celltech La	abs Inc. This docu	ment is not to be re	produced in whole or in part with	nout the written	permission of Celltech Labs	Inc. 28 of 59



Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		5 Report Iss	ue:	Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Body SAR - Cellular Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Open 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.2 °C; Fluid Temp: 21.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 31.9 dBm (Peak Conducted) Communication System: Cellular GPRS (4 Time Slots) Frequency: 836.6 MHz; Channel 190; Duty Cycle: 1:2 Medium: M835 (σ = 0.97 mho/m; ε_r = 52.5; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

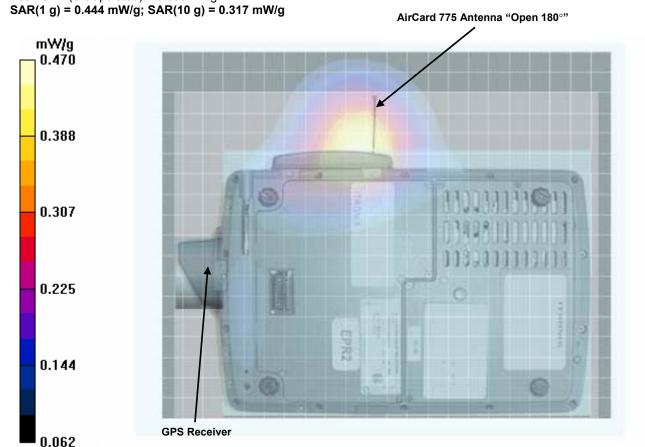
Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = 0.000145 dB

Peak SAR (extrapolated) = 0.588 W/kg



Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	(ITRONIX)
Model:	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T645-S24G			ssue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 03 & 09, 2005			Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR			FCC 2.1093		IC RSS-102	

Body SAR - Cellular Band - GPRS Mode - Internal Battery - Bottom Side of DUT - AirCard 775 Antenna - Open 90°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.2 °C; Fluid Temp: 21.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 30%

11.1V, 3600mAh Internal Lithium-ion Battery Pack (Model: T8M-E)

RF Output Power: 31.9 dBm (Peak Conducted)

Communication System: Cellular GPRS (4 Time Slots) Frequency: 836.6 MHz; Channel 190; Duty Cycle: 1:2 Medium: M835 (σ = 0.97 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

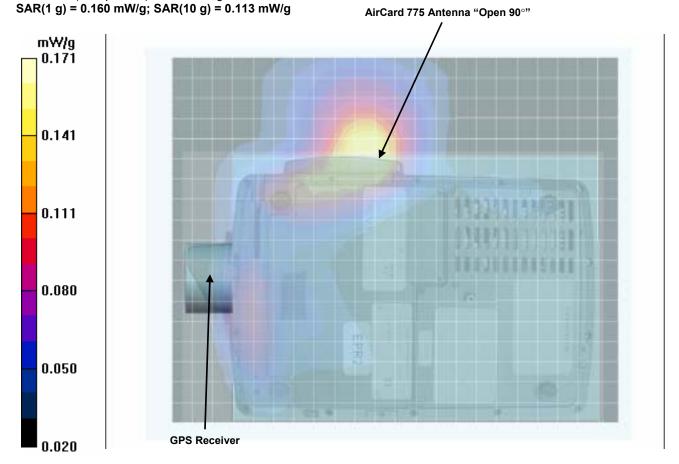
Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Mid Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.4 V/m; Power Drift = 0.0120 dB

Peak SAR (extrapolated) = 0.218 W/kg



Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	15-S24G	Issue Date:	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	3 & 09, 200	5 Report Issu	ue: Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093	IC RSS-102	

Body SAR - Cellular Band - GPRS Mode - AC Power - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.2 °C; Fluid Temp: 21.5 °C; Barometric Pressure: 101.8 kPa; Humidity: 30%

75 W AC Power Adapter (Delta Electronics Model: ADP-75FB B)

RF Output Power: 31.8 dBm (Peak Conducted)

Communication System: Cellular GPRS (4 Time Slots) Frequency: 824.2 MHz; Channel 128; Duty Cycle: 1:2 Medium: M835 (σ = 0.97 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Low Channel Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

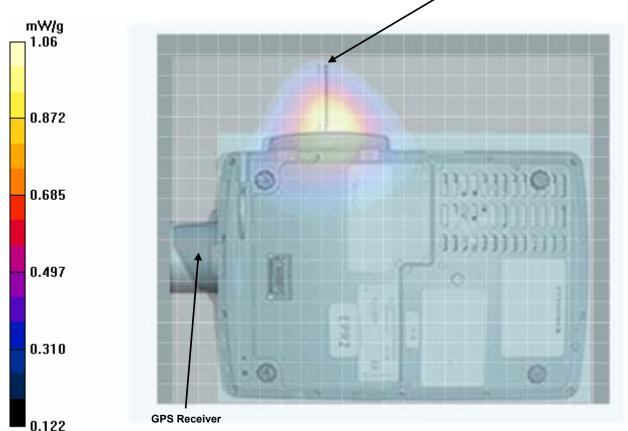
Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT to Planar Phantom - Low Channel

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.0 V/m; Power Drift = -0.0199 dB

Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.998 mW/g; SAR(10 g) = 0.703 mW/g

AirCard 775 Antenna "Closed 180°"

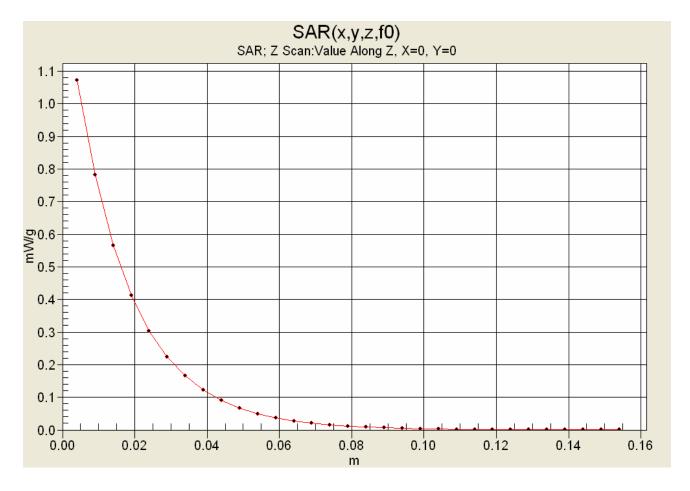


Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T645-S24G			sue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 200			Report Issu	ıe:	Issue 1.0
Type of Evaluation:	RF Exposure SAR		F	FCC 2.1093		IC RSS-102

Z-Axis Scan



	Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
	Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII NOWA
Ī	2005 Celltech La	abs Inc. This docu	ment is not to be re	produced in whole or in part with	hout the written	permission of Celltech Labs	Inc. 32 of 59



Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Iss	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Date Tested: 05/09/2005

Body SAR - Cellular Band - GPRS Mode - External 2nd Battery - Bottom Side of DUT - AirCard 775 Antenna - Closed 180°

DUT: Itronix Model: IX325-AC775IWL; Type: Tablet PC with Dual-Band GSM GPRS/EDGE PCMCIA Modem; Serial: ZZGEG5074ZZ9799

Ambient Temp: 23.4 °C; Fluid Temp: 21.5 °C; Barometric Pressure: 101.0 kPa; Humidity: 33%

11.1V, 3600mAh External Second Lithium-ion Battery Pack (Model: T8S-E)

RF Output Power: 31.8 dBm (Peak Conducted)

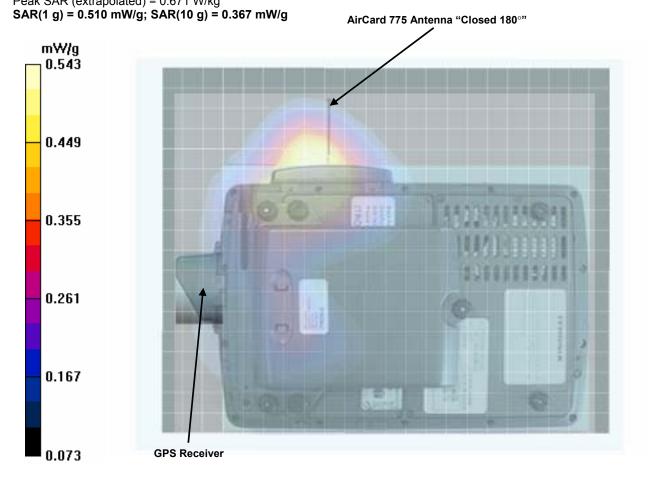
Communication System: Cellular GPRS (4 Time Slots) Frequency: 824.2 MHz; Channel 128; Duty Cycle: 1:2 Medium: M835 (σ = 0.94 mho/m; ϵ_r = 52.6; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1387; ConvF(6.1, 6.1, 6.1); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
- Phantom: Barski Industries; Type: Fiberglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT (External 2nd Battery) to Planar Phantom (15 mm External DUT Battery Thickness) - Low Channel/Area Scan (19x23x1): Measurement grid: dx=15mm, dy=15mm

Body SAR - Cellular GPRS - 0.0 cm Separation Distance from Bottom of DUT (External 2nd Battery) to Planar Phantom (15 mm External 2nd Battery Thickness) - Low Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 24.9 V/m; Power Drift = -0.0434 dB Peak SAR (extrapolated) = 0.671 W/kg

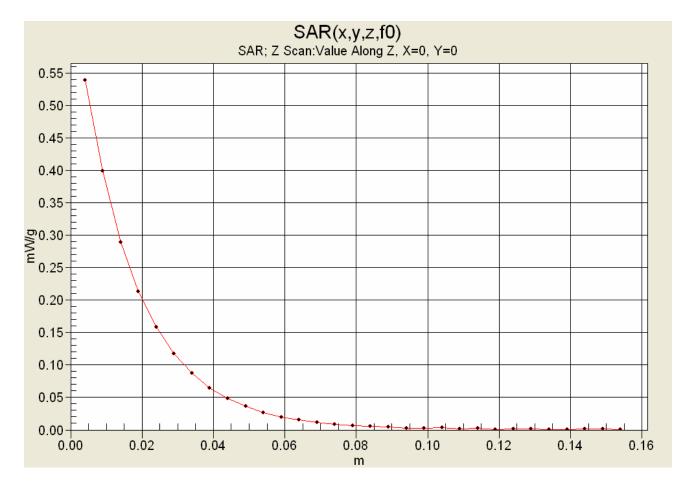


Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T645-S24G			sue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 200			Report Issu	ıe:	Issue 1.0
Type of Evaluation:	RF Exposure SAR		F	FCC 2.1093		IC RSS-102

Z-Axis Scan



	Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
	Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WI I NOMIA
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Test Report Serial No.:	060605KBC-T645-S24G			sue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 200			Report Issu	ıe:	Issue 1.0
Type of Evaluation:	RF Exposure SAR		F	FCC 2.1093		IC RSS-102

APPENDIX B - SYSTEM PERFORMANCE CHECK DATA

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

System Performance Check (Brain) - 835 MHz Dipole

DUT: Dipole 835 MHz; Model: D835V2; Type: System Performance Check; Serial: 411; Calibrated: 03/30/2005

Ambient Temp: 21.6 °C; Fluid Temp: 21.3 °C; Barometric Pressure: 102.0 kPa; Humidity: 30%

Communication System: CW Forward Conducted Power: 250 mW Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835 ($\sigma = 0.90 \text{ mho/m}$; $\varepsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$)

- Probe: ET3DV6 SN1590; ConvF(6.71, 6.71, 6.71); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

835 MHz Dipole - System Performance Check/Area Scan (6x10x1):

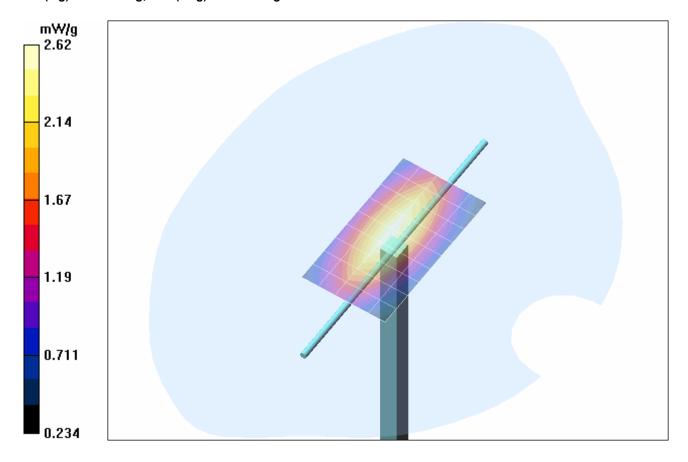
Measurement grid: dx=10mm, dy=10mm

835 MHz Dipole - System Performance Check/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 56.2 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.61 W/kg

SAR(1 g) = 2.43 mW/g; SAR(10 g) = 1.59 mW/g

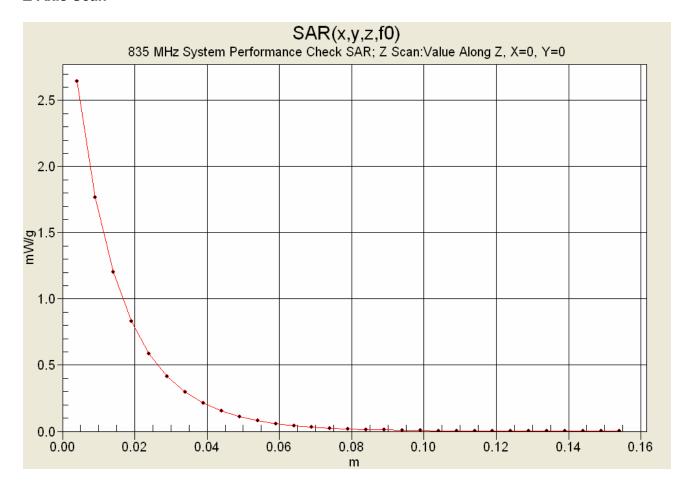


	Applicant:	licant: Itronix Corporation		FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
	Model:	IX325-AC775IWL	Ru	igged Table	t PC with PCS/Cellular G	SM GPRS/EI	DGE PCMCIA Modem	WII NOMIX
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Test Report Serial No.:	060605KBC-T645-S24G		Issue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		D5 Report Issue:		Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Z-Axis Scan



Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	(ITRONIX)
Model:	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII ROMA
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Iss	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Date Tested: 04/14/2005

System Performance Check (Brain) - 1900 MHz Dipole

DUT: Dipole 1900 MHz; Model: D1900V2; Type: System Performance Check; Serial: 151; Calibrated: 06/18/2004

Ambient Temp: 22.7 °C; Fluid Temp: 23.1 °C; Barometric Pressure: 102.4 kPa; Humidity: 30%

Communication System: CW Forward Conducted Power: 250 mW Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 (σ = 1.44 mho/m; ε_r = 38.5; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1590; ConvF(5.03, 5.03, 5.03); Calibrated: 24/05/2004
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

1900 MHz Dipole - System Performance Check/Area Scan (5x8x1):

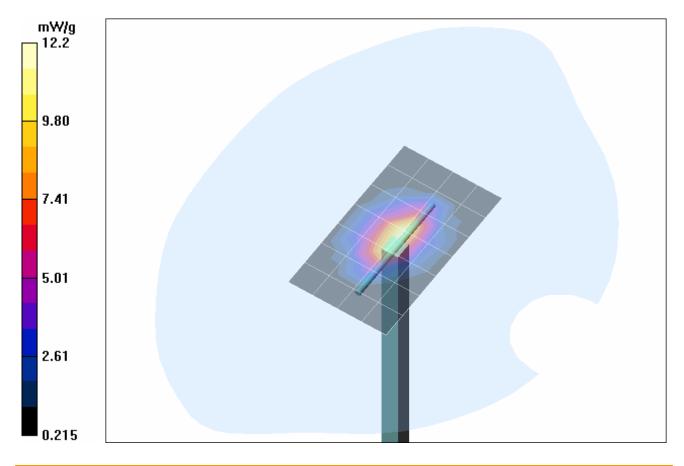
Measurement grid: dx=15mm, dy=15mm

1900 MHz Dipole - System Performance Check/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 96.8 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 18.6 W/kg

SAR(1 g) = 10.8 mW/g; SAR(10 g) = 5.68 mW/g

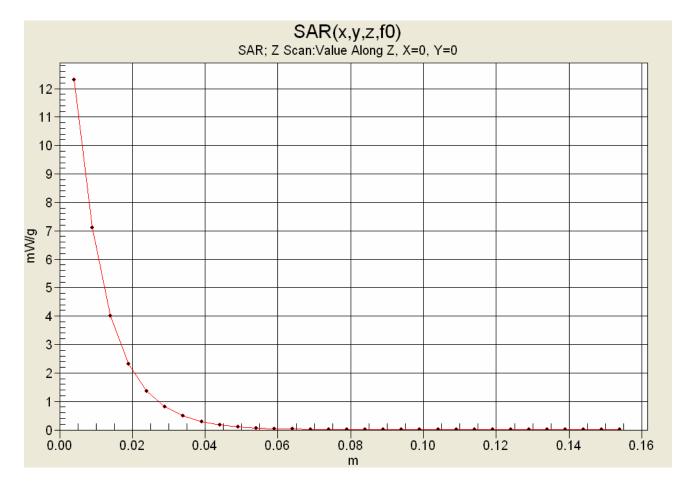


Applicant:	Itronix Corporation	on FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T645-S24G		15-S24G Issue Date:		ept. 01, 2005
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Z-Axis Scan



Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII ROMA
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Test Report Serial No.:	060605KBC-T64	15-S24G	Issue Date:	Sept. 01, 2005
Dates of Evaluation:	April 13-14, May 0	3 & 09, 200	5 Report Issu	ue: Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093	IC RSS-102

Date Tested: 05/03/2005

System Performance Check (Brain) - 1900 MHz Dipole

DUT: Dipole 1900 MHz; Model: D1900V2; Type: System Performance Check; Serial: 151; Calibrated: 06/18/2004

Ambient Temp: 23.2 °C; Fluid Temp: 22.9 °C; Barometric Pressure: 101.9 kPa; Humidity: 30%

Communication System: CW Forward Conducted Power: 250 mW Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900 (σ = 1.43 mho/m; ε_r = 38.1; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1387; ConvF(5.18, 5.18, 5.18); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004
 Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

1900 MHz Dipole - System Performance Check/Area Scan (5x8x1):

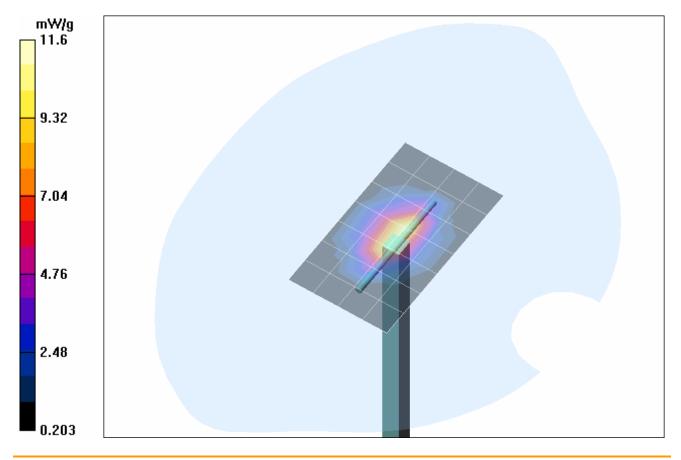
Measurement grid: dx=15mm, dy=15mm

1900 MHz Dipole - System Performance Check/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 95.2 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 18.4 W/kg

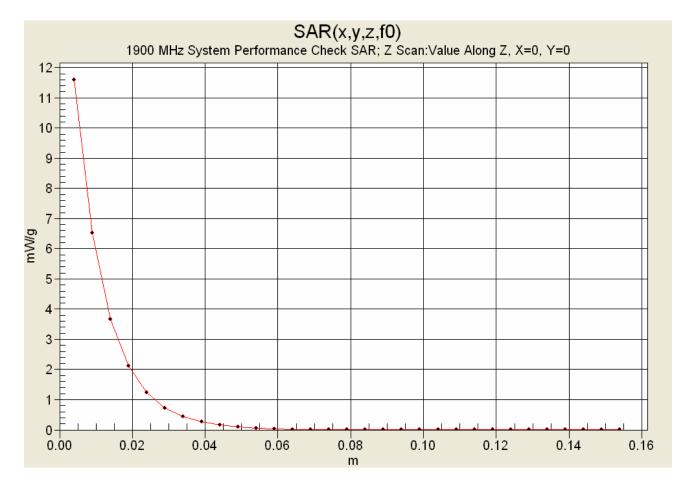
SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.31 mW/g

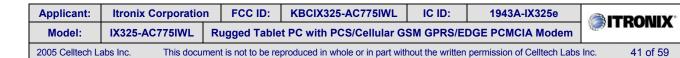




Test Report Serial No.:	060605KBC-T645-S24G		Issue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		D5 Report Issue:		Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Z-Axis Scan







Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Iss	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Date Tested: 05/09/2005

System Performance Check (Brain) - 835 MHz Dipole

DUT: Dipole 835 MHz; Model: D835V2; Type: System Performance Check; Serial: 411; Calibrated: 03/30/2005

Ambient Temp: 22.7 °C; Fluid Temp: 21.4 °C; Barometric Pressure: 101.1 kPa; Humidity: 33%

Communication System: CW Forward Conducted Power: 250 mW Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835 (σ = 0.88 mho/m; ϵ_r = 40.3; ρ = 1000 kg/m³)

- Probe: ET3DV6 SN1387; ConvF(6.47, 6.47, 6.47); Calibrated: 18/03/2005
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE3 Sn353; Calibrated: 06/07/2004- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

835 MHz Dipole - System Performance Check/Area Scan (6x10x1):

Measurement grid: dx=10mm, dy=10mm

835 MHz Dipole - System Performance Check/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 56.3 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 3.67 W/kg

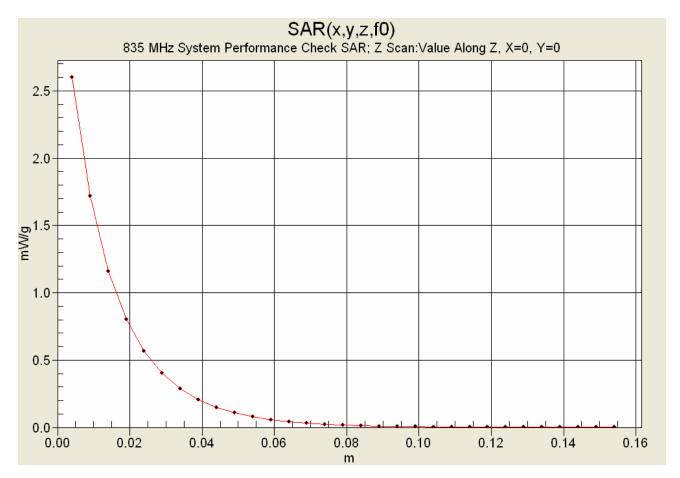
SAR(1 g) = 2.40 mW/g; SAR(10 g) = 1.55 mW/g

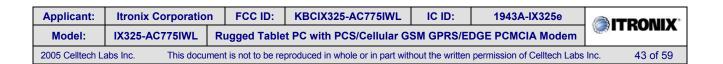




Test Report Serial No.:	060605KBC-T645-S24G		Issue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		D5 Report Issue:		Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

Z-Axis Scan

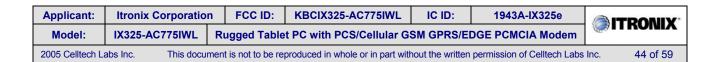






Test Report Serial No.:	060605KBC-T645-S24G		15-S24G Issue Date:		ept. 01, 2005
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS





Test Report Serial No.:	060605KBC-T645-S24G		Issue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 2005		D5 Report Issue:		Issue 1.0
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

835 MHz DUT Evaluation (Body) Measured Fluid Dielectric Parameters (Muscle)

April 13, 2005

835 MHz System Performance Check Measured Fluid Dielectric Parameters (Brain)

April 13, 2005

Frequency	e'	e"	Frequency	e'	e"
735.000000 MHz	53.5489	21.3126	735.000000 MHz	41.4664	19.7679
745.000000 MHz	53.4558	21.2660	745.000000 MHz	41.3262	19.6979
755.000000 MHz	53.2924	21.2077	755.000000 MHz	41.1612	19.6478
765.000000 MHz	53.2052	21.1498	765.000000 MHz	41.0201	19.5826
775.000000 MHz	53.0838	21.1161	775.000000 MHz	40.9020	19.5470
785.000000 MHz	53.0256	21.0507	785.000000 MHz	40.8062	19.5181
795.000000 MHz	52.9522	21.0311	795.000000 MHz	40.7079	19.5072
805.000000 MHz	52.8354	21.0041	805.000000 MHz	40.5772	19.4621
815.000000 MHz	52.7378	20.9547	815.000000 MHz	40.4474	19.4452
825.000000 MHz	52.6286	20.9547	825.000000 MHz	40.3139	19.3986
835.000000 MHz	52.5260	20.8980	835.000000 MHz	40.2022	19.3792
845.000000 MHz	52.4215	20.8704	845.000000 MHz	40.0647	19.3470
855.000000 MHz	52.2899	20.8751	855.000000 MHz	39.9244	19.3274
865.000000 MHz	52.1453	20.8158	865.000000 MHz	39.7662	19.2833
875.000000 MHz	52.0428	20.8012	875.000000 MHz	39.6483	19.2602
885.000000 MHz	51.9581	20.7386	885.000000 MHz	39.5308	19.2080
895.000000 MHz	51.9103	20.7101	895.000000 MHz	39.4547	19.1854
905.000000 MHz	51.7919	20.6778	905.000000 MHz	39.3650	19.1575
915.000000 MHz	51.7076	20.6438	915.000000 MHz	39.2345	19.1131
925.000000 MHz	51.6000	20.6196	925.000000 MHz	39.1305	19.0818
935.000000 MHz	51.5121	20.5584	935.000000 MHz	39.0094	19.0472

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model: IX325-AC775IWL		Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WI I ROILLY
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

1880 MHz DUT Evaluation (Body)

Measured Fluid Dielectric Parameters (Muscle)

April 14, 2005

1900 MHz System Performance Check

Measured Fluid Dielectric Parameters (Brain)

April 14, 2005

Frequency	e'	e"	Frequency	e'	e"
1.780000000 GHz	51.1149	14.6099	1.800000000 GHz	38.9793	13.3811
1.790000000 GHz	51.0754	14.6576	1.810000000 GHz	38.9271	13.4208
1.800000000 GHz	51.0354	14.6847	1.820000000 GHz	38.8773	13.4472
1.810000000 GHz	50.9763	14.6992	1.830000000 GHz	38.8528	13.4885
1.820000000 GHz	50.9433	14.7387	1.840000000 GHz	38.8257	13.5134
1.830000000 GHz	50.9050	14.7866	1.850000000 GHz	38.7985	13.5412
1.840000000 GHz	50.8655	14.8179	1.860000000 GHz	38.7585	13.5559
1.850000000 GHz	50.8151	14.8339	1.870000000 GHz	38.7004	13.5731
1.860000000 GHz	50.7722	14.8651	1.880000000 GHz	38.6498	13.5859
1.870000000 GHz	50.7368	14.8905	1.890000000 GHz	38.5915	13.6037
1.880000000 GHz	50.7028	14.9361	1.90000000 GHz	38.5377	13.6220
1.890000000 GHz	50.6675	14.9654	1.910000000 GHz	38.4739	13.6555
1.900000000 GHz	50.6174	15.0042	1.920000000 GHz	38.4303	13.6767
1.910000000 GHz	50.5908	15.0232	1.930000000 GHz	38.4057	13.7126
1.920000000 GHz	50.5558	15.0427	1.940000000 GHz	38.3703	13.7434
1.930000000 GHz	50.5239	15.0879	1.950000000 GHz	38.3344	13.7806
1.940000000 GHz	50.4786	15.1277	1.960000000 GHz	38.3089	13.8141
1.950000000 GHz	50.4258	15.1569	1.970000000 GHz	38.2818	13.8341
1.960000000 GHz	50.3781	15.1820	1.980000000 GHz	38.2439	13.8583
1.970000000 GHz	50.3498	15.2150	1.990000000 GHz	38.2129	13.8780
1.980000000 GHz	50.2901	15.2659	2.000000000 GHz	38.1643	13.9180

Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX	
Model: IX325-AC775IWL		Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem		
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Test Report Serial No.:	060605KBC-T64	Issue	Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issue:			Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC	2.1093		IC RSS-102

1880 MHz DUT Evaluation (Body) Celltech Labs Inc. Test Result for UIM Dielectric Parameter Tue 03/May/2005 Freq Frequency (GHz) FCC_eH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon FCC_sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma FCC eB FCC Limits for Body Epsilon FCC_sB FCC Limits for Body Sigma Test e Epsilon of UIM Test s Sigma of UIM ************************************ Freq FCC_eB FCC_sB Test_e Test_s 53.30 1.52 51.16 1.43 53.30 1.52 51.06 1.44 1.8000 1.8100 53.30 1.52 51.04 1.45 1.8200 53.30 1.52 51.02 1.46 53.30 1.52 50.94 1.46 1.8300 1.8400 1.8500 53.30 1.52 50.82 1.47 53.30 1.52 50.79 1.48 53.30 1.52 50.75 1.50 1.8600 1.8700 53.30 1.52 50.82 1.51 1.8800 1.8900 53.30 1.52 50.69 1.52 53.30 1.52 50.68 1.54 53.30 1.52 50.66 1.55 1.9000 1.54 1.9100 1.9200 53.30 1.52 50.74 1.56 53.30 1.52 50.73 1.57 53.30 1.52 50.59 1.58 1.9300 1.9400 53.30 1.52 50.52 1.59 1.9500 1.9600 53.30 1.52 50.52 1.60 1.9700 53.30 1.52 50.48 1.62 53.30 1.52 50.45 1.62 1.9800 1.9900 53.30 1.52 50.43 1.64 2.0000 53.30 1.52 50.36 1.65 1900 MHz System Performance Check (Brain) Celltech Labs Inc. Test Result for UIM Dielectric Parameter

```
Tue 03/May/2005
      Frequency (GHz)
FCC eH FCC OET 65 Supplement C (June 2001) Limits for Head Epsilon
FCC sH FCC OET 65 Supplement C (June 2001) Limits for Head Sigma
Test e Epsilon of UIM
Test s Sigma of UIM
**************************************
             FCC eH FCC sH Test e Test s
Freq
1.8000
             40.00 1.40 38.63 1.31
40.00 1.40 38.57 1.31
1.8100
                      1.40
             40.00 1.40
                              38.49 1.32
1.8200
1.8300
             40.00 1.40 38.44 1.33
             40.00 1.40
40.00 1.40
                              38.42 1.34
38.27 1.34
1.8400
1.8500
             40.00 1.40
1.8600
                              38.23 1.35
             40.00 1.40
40.00 1.40
                                    1.37
1.8700
                              38.16
1.8800
                              38.16
             40.00 1.40
1.8900
                              38.08
                                    1.39
1.9000
             40.00 1.40
                              38.11 1.43
              40.00
1.9100
                      1.40
                              38.09
                                     1.42
              40.00 1.40
                              38.12 1.42
1.9200
1.9300
             40.00 1.40
                              38.09 1.43
              40.00 1.40
40.00 1.40
                                    1.44
                              37.92
1.9400
1.9500
                              37.86
```

40.00 1.40

40.00 1.40

40.00 1.40

1.40

40.00 1.40 37.65 1.50

40.00

1.9600

1.9700

1.9800

1.9900

	Applicant:	Itronix C	Corporation	FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRO	Ally
	Model:	IX325-AC	C775IWL R	lugged Table	ablet PC with PCS/Cellular GSM GPRS/EDGE PCMCIA Modem			WII NO	IVIA
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37.75 1.45

37.66 1.46

37.58 1.49

37.63



Test Report Serial No.:	060605KBC-T64	Issue	Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issue:			Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC	2.1093		IC RSS-102

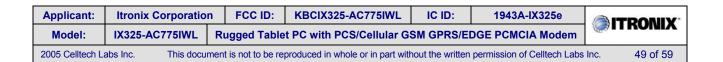
```
835 MHz DUT Evaluation (Body)
Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Mon 09/May/2005
     Frequency (GHz)
FCC eH FCC Bulletin 65 Supplement C ( June 2001) Limits for Head Epsilon
FCC sH FCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC eB FCC Limits for Body Epsilon
FCC sB FCC Limits for Body Sigma
Test e Epsilon of UIM
Test s Sigma of UIM
**************
Freq
            FCC eB FCC sB Test e Test s
0.7350
            55.59 0.96 53.39
                                   0.85
             55.55
                     0.96
                            53.36
            55.51 0.96 53.29
0.7550
                                   0.87
0.7650
            55.47 0.96 53.12
                                   0.88
             55.43 0.97
55.39 0.97
0.7750
                            53.05
                                   0.89
0.7850
                            52.90
                                   0.90
0.7950
            55.36 0.97 52.87
                                   0.90
            55.32 0.97 52.81
55.28 0.97 52.66
0.8050
                                   0.91
0.8150
                                   0.92
            55.24 0.97 52.68
0.8250
                                   0.93
0.8350
            55.20 0.97 (52.56)
                                   0.94
0.8450
             55.17
                     0.98
                            52.37
                                   0.95
             55.14 0.99 52.42
0.8550
                                   0.96
            55.11 1.01 52.19
0.8650
                                   0.98
            55.08 1.02 52.01
55.05 1.03 51.93
0.8750
                                   0.98
0.8850
                                   0.99
            55.02 1.04 51.96
0.8950
                                   1.00
            55.00 1.05 51.05
0.9050
                                   1.01
              55.00
                            51.83
0.9150
                     1.06
                                   1.02
             54.98 1.06
                            51.66 1.03
0.9250
0.9350
             54.96 1.07 51.51 1.04
835 MHz System Performance Check (Brain)
Celltech Labs Inc.
Test Result for UIM Dielectric Parameter
Mon 09/May/2005
     Frequency (GHz)
Freq
FCC eH FCC OET 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_SH FCC OET 65 Supplement C (June 2001) Limits for Head Sigma
Test e Epsilon of UIM
Test s Sigma of UIM
****
            FCC eH FCC sH Test e Test s
Freq
            42.02 0.89 41.59 0.79
41.97 0.89 41.60 0.80
0.7350
0.7450
             41.92 0.89 41.46
0.7550
                                   0.82
0.7650
             41.86 0.89 41.28
                                   0.82
             41.81 0.90 41.16
41.76 0.90 40.92
0.7750
                                   0.82
0.7850
                                   0.84
0.7950
             41.71 0.90 40.91
                                   0.85
             41.66 0.90 40.66
41.60 0.90 40.67
0.8050
                                   0.85
0.8150
                                   0.87
             41.55 0.90 40.59
0.8250
                                   0.87
0.8350
             41.50 0.90 (40.34)
                                   0.88
             41.50
                            40.30
0.8450
                     0.91
             41.50 0.92 40.23
0.8550
                                   0.90
0.8650
             41.50 0.93 40.11
                                   0.91
             41.50
41.50
                    0.94 39.93
0.95 39.84
0.8750
                                   0.92
0.8850
                                   0.93
0.8950
             41.50 0.96 39.73
                                   0.94
                          39.59
0.9050
             41.50 0.97
                                   0.95
0.9150
             41.50
                     0.98
                            39.56
                                   0.96
             41.48 0.98 39.40
0.9250
                                   0.97
0.9350
             41.46 0.99 39.29
                                   0.97
```

Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	(ITRONIX)
Model: IX325-AC775IWL		Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WI I ROILL
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Test Report Serial No.:	060605KBC-T64	15-S24G	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0		
Type of Evaluation:	RF Exposure	FCC 2.1093		IC RSS-102		

APPENDIX D - SAR TEST SETUP PHOTOGRAPHS





Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure SAR		FCC 2.1093		IC RSS-102

BODY SAR TEST SETUP PHOTOGRAPHS

0.0 cm Separation Distance from Bottom of DUT to Planar Phantom (with internal battery)







Applicant	olicant: Itronix Corporation		FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	ITRONIX®
Model: IX325-AC775IWL		AC775IWL	Rugged Table	WI I ROILLY			
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50 of 59

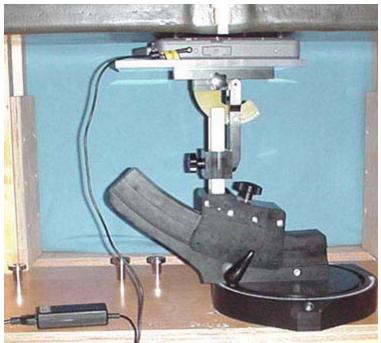


Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

BODY SAR TEST SETUP PHOTOGRAPHS
0.0 cm Separation Distance from Bottom of DUT to Planar Phantom



with Internal Battery



with AC Power Adapter

Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WII NOWIA
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ue:	Issue 1.0	
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

BODY SAR TEST SETUP PHOTOGRAPHS

0.0 cm Separation Distance from Bottom of DUT to Planar Phantom AirCard 775 Antenna "Closed 180°"







Applicant:	Itronix Corporation	FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem

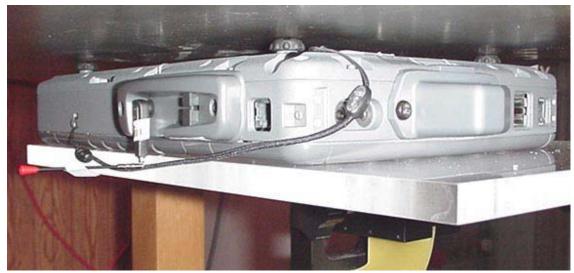


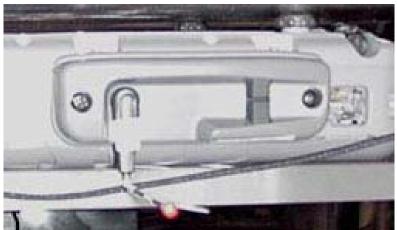


Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

BODY SAR TEST SETUP PHOTOGRAPHS

0.0 cm Separation Distance from Bottom of DUT to Planar Phantom AirCard 775 Antenna "Open 180°"







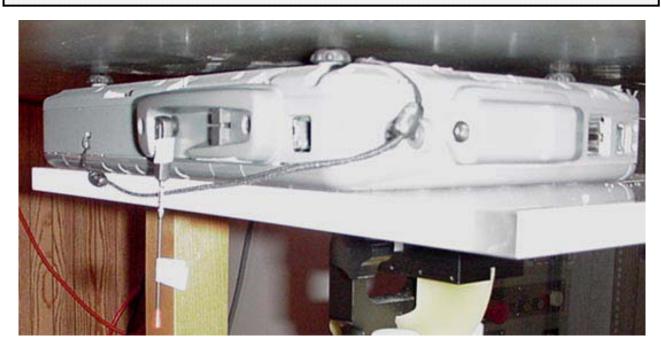
Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	6
Model: I	IX325-AC775IWL	Rugged Table	t PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	V

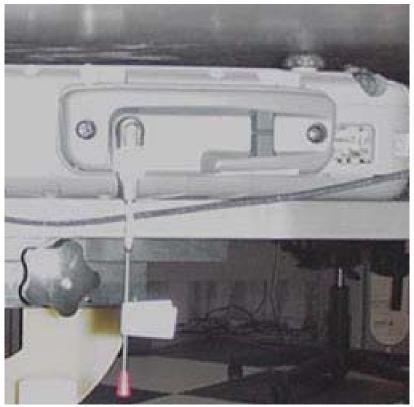




Test Report Serial No.:	060605KBC-T645-S24G			sue Date:	Se	ept. 01, 2005
Dates of Evaluation:	April 13-14, May 03 & 09, 2005			Report Issu	ue:	Issue 1.0
Type of Evaluation:	RF Exposure SAR		F	CC 2.1093		IC RSS-102

BODY SAR TEST SETUP PHOTOGRAPHS
0.0 cm Separation Distance from Bottom of DUT to Planar Phantom
AirCard 775 Antenna "Open 90°"



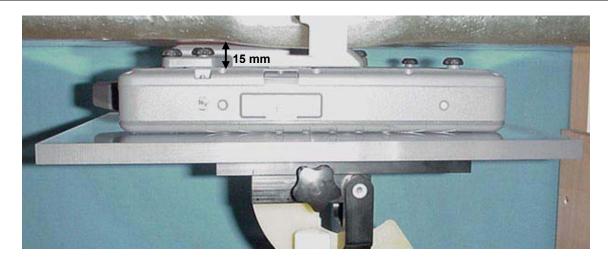


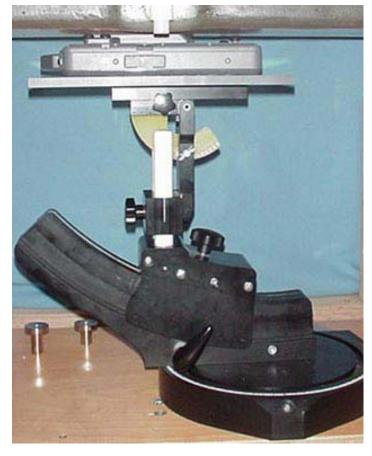
Applicant:	Itronix Corporatio	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	() ITRONIX
Model:	Model: IX325-AC775IWL		et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	WI I ROIM
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	ept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

BODY SAR TEST SETUP PHOTOGRAPHS
0.0 cm Separation Distance from Bottom of DUT (External 2nd Battery) to Planar Phantom
With External Second Lithium-ion Battery Pack (15 mm External 2nd Battery Thickness)







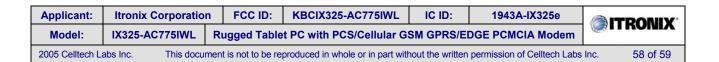


Applicant:	Itronix Corporation	n FCC ID:	KBCIX325-AC775IWL	IC ID:	1943A-IX325e	⊚ITRONIX
Model:	IX325-AC775IWL	Rugged Table	et PC with PCS/Cellular G	SM GPRS/E	DGE PCMCIA Modem	
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Test Report Serial No.:	060605KBC-T64	Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102

APPENDIX G - SAM PHANTOM CERTIFICATE OF CONFORMITY



Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

Certificate of conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 BA
Series No	TP-1002 and higher
Manufacturer / Origin	Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland

Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

Test	Requirement	Details	Units tested
Shape	Compliance with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample TP 104-5
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards	Liquid type HSL 1800 and others according to the standard.	Pre-series, First article

Standards

- [1] CENELEC EN 50361
- [2] IEEE P1528-200x draft 6.5
- [3] IEC PT 62209 draft 0.9
- (*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date

18.11.2001

Signature / Stamp

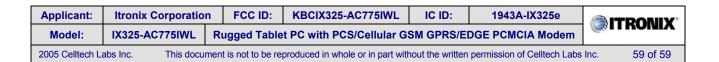
Schmid & Partner Fin Boulott

Zeughausstrasse 43, CH-8004 Zurich Tel. +41 1 245 97 00, Fax +41 1 245 97 79



Test Report Serial No.:	060605KBC-T645-S24G		Issue Date:	Se	Sept. 01, 2005	
Dates of Evaluation:	April 13-14, May 0	3 & 09, 200	5 Report Issu	ıe:	Issue 1.0	
Type of Evaluation:	RF Exposure	SAR	FCC 2.1093		IC RSS-102	

APPENDIX H - PLANAR PHANTOM CERTIFICATE OF CONFORMITY



2378 Westlake Road Kelowna, B.C. Canada V1Z-2V2



Ph. # 250-769-6848 Fax # 250-769-6334

E-mail: <u>barskiind@shaw.ca</u>
Web: www.bcfiberglass.com

FIBERGLASS FABRICATORS

Certificate of Conformity

Item: Flat Planar Phantom Unit # 03-01

Date: June 16, 2003

Manufacturer: Barski Industries (1985 Ltd)

Test	Requirement	Details
Shape	Compliance to geometry according to drawing	Supplied CAD drawing
Material Thickness	Compliant with the requirements	2mm +/- 0.2mm in measurement area
Material Parameters	Dielectric parameters for required frequencies Based on Dow Chemical technical data	100 MHz-5 GHz Relative permittivity<5 Loss Tangent<0.05

Conformity

Based on the above information, we certify this product to be compliant to the requirements specified.

Signature:

Daniel Chailler





Fiberglass Planar Phantom - Top View



Fiberglass Planar Phantom - Front View



Fiberglass Planar Phantom - Back View

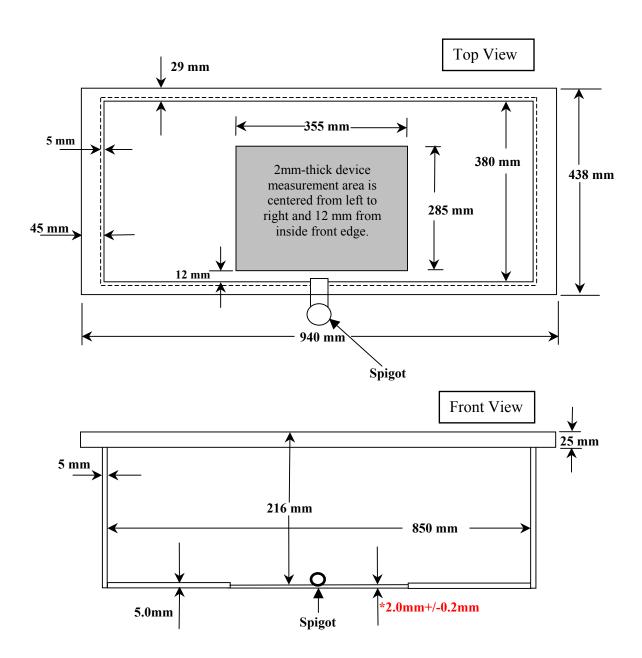


Fiberglass Planar Phantom - Bottom View



Dimensions of Fiberglass Planar Phantom

(Manufactured by Barski Industries Ltd. - Unit# 03-01)



Note: Measurements that aren't repeated for the opposite sides are the same as the side measured.

This drawing is not to scale.