
	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## DECLARATION OF COMPLIANCE - SAR RF EXPOSURE EVALUATION (FCC/IC)

<b>Test Lab Information</b>	<b>Name</b>	<b>CELLTECH LABS INC.</b>	<b>Address</b>	21-364 Lougheed Road, Kelowna B.C. V1X 7R8 Canada			
<b>Test Lab Accreditation</b>	<b>A2LA</b>	ISO/IEC 17025:2005 (A2LA Test Lab Certificate No. 2470.01)					
<b>Applicant Information</b>	<b>Name</b>	<b>XPLORE TECHNOLOGIES CORP.</b>	<b>Address</b>	14000 Summit Drive, Suite 900, Austin, Texas, 78728 USA			
<b>Standard(s) Applied</b>	<b>FCC</b>	47 CFR §2.1093	<b>IC</b>	Health Canada Safety Code 6			
<b>Procedure(s) Applied</b>	<b>FCC</b>	OET Bulletin 65, Supplement C (01-01)		KDB 447498 D01v04	FCC KDB 941225 D01v02		
	<b>IC</b>	RSS-102 Issue 4	<b>IEEE</b>	1528-2003	<b>IEC</b>	62209-1:2005; 62209-2:2010	
<b>Device Classification(s)</b>	<b>FCC</b>	PCS Licensed Transmitter (PCB)			47 CFR §24 Subpart E		
	<b>IC</b>	Cellular Telephones Employing New Technologies Operating in the 800 Band 2 GHz Personal Communications Services			RSS-132 Issue 2 RSS-133 Issue 5		
<b>Application Type</b>	<b>FCC/IC</b>	<b>Class II Permissive Change - Add Xplore iX104C5 Tablet PC &amp; Pump-Up Antenna (Limited Modular Approval)</b>					
<b>Device-Under-Test Sample</b>	<b>Rcpt Date</b>	September 21, 2010		<b>Test Dates</b>	September 23 & October 13, 2010		
<b>Device Identifier(s)</b>	<b>FCC ID:</b>	Q2GGOBI2K-XPL		<b>IC:</b>	4596A-GOBI2KXPL		
<b>Device Under Test (DUT)</b>	<b>WWAN</b>	GPRS/EDGE/CDMA/WCDMA/HSPA Module		<b>Model</b>	GOBI2000		
	<b>Manuf.</b>	Qualcomm Inc.		<b>Serial No.</b>	IMEI 358504020003108		
<b>DUT Host Configuration(s)</b>	<b>Host PC</b>	Rugged Tablet PC		<b>Model</b>	iX104C5		
	<b>Manuf.</b>	Wistron Corporation		<b>Serial No.</b>	XPL 01		
<b>Co-located Transmitter 1</b>	<b>WLAN</b>	802.11a/b/g/n WLAN Mini-PCI Card		<b>Model</b>	622ANHMW		
	<b>FCC ID:</b>	Q2GI6200-XPL		<b>IC:</b>	4596A-I6200XPL		
	<b>Manuf.</b>	Intel Corporation		<b>Co-Transmit</b>	Does not support co-transmission with WWAN		
<b>Co-located Transmitter 2</b>	<b>Bluetooth</b>	Class 2		<b>Model</b>	BCM92070MD_REF		
	<b>FCC ID:</b>	QDS-BRCM1043		<b>IC:</b>	4324A-BRCM1043		
	<b>Manuf.</b>	Broadcom Corporation		<b>Co-Transmit</b>	Does support co-transmission with WWAN		
	<b>Tx Freq.</b>	2402 - 2480 MHz		<b>Cond. Pwr.</b>	4.27 dBm (Original TCB Cert.) = P(mW)<60/f		
	<b>Ant. Dist.</b>	179 mm (Bluetooth-to-WWAN)					
<b>User LCD Orientation(s)</b>	<b>Host PC</b>	0 Degrees Landscape		90 Degrees Portrait			
<b>Device Position(s) Tested</b>	<b>Host PC</b>	Bottom Side Touch					
<b>Transmit Frequency Range(s)</b>	<b>Cell Band</b>	824.2-848.8 MHz (GPRS/EDGE)		826.4-846.6 MHz (WCDMA/HSPA)		824.70-848.31 MHz (CDMA/EV-DO)	
	<b>PCS Band</b>	1850.2-1909.8 MHz (GPRS/EDGE)		1852.4-1907.5 MHz (WCDMA/HSPA)		1851.25-1908.75 MHz (CDMA/EV-DO)	
<b>Max. Duty Cycle(s) Tested</b>	<b>GPRS</b>	25% (2 Uplink Slots) Class 10		<b>WCDMA</b>	100%	<b>EV-DO</b>	100%
						<b>CDMA</b>	100%
<b>Antenna Type(s) Tested</b>	<b>WWAN</b>	<b>SkyCross "Pump-Up" High-Gain Antenna</b>		<b>P/N: 25.90A14.001</b>		<b>Gain Specification: -3 dBi</b>	
<b>Antenna-to-User Distance(s)</b>	<b>WWAN</b>	WWAN to Bottom Side = 1.6 cm			WWAN to Right Side Edge (90° Portrait) = 18.8 cm		
<b>Power Source(s) Tested</b>	<b>Host PC</b>	Lithium-ion Battery	7.4V	10000mAh		Model: 909T2021F	
<b>Max. SAR Level(s) Evaluated</b>	<b>BODY (LAP)</b>	<b>0.579 W/kg</b>	1g average	850 Band	<b>FCC/IC Spatial Peak SAR Limit</b>	<b>1.6 W/kg</b>	1g average
		<b>0.485 W/kg</b>	1g average	1900 Band		<b>Gen. Pop. / Uncontrolled Exposure</b>	


Celltech Labs Inc. declares under its sole responsibility that this wireless portable device is compliant with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6 for the General Population / Uncontrolled Exposure environment. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01), Industry Canada RSS-102 Issue 4, IEEE 1528-2003, International Standard IEC 62209-1 (2005) and International Standard IEC 62209-2 (Edition 1.0 2010-03). 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.

The results and statements contained in this report pertain only to the device(s) evaluated.



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<b>Test Report Approved By</b>		<b>Sean Johnston</b>	<b>Lab Manager</b>	<b>Celltech Labs Inc.</b>
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<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

<b>TABLE OF CONTENTS</b>	
1.0 INTRODUCTION	4
2.0 SAR MEASUREMENT SYSTEM	4
3.0 SAR PROBE CALIBRATION & MEASUREMENT FREQUENCIES	4
4.0 OUTPUT POWER MEASUREMENTS	5
OUTPUT POWER MEASUREMENTS (Cont.)	6
OUTPUT POWER MEASUREMENTS (Cont.)	7
OUTPUT POWER MEASUREMENTS (Cont.)	8
OUTPUT POWER MEASUREMENTS (Cont.)	9
5.0 FLUID DIELECTRIC PARAMETERS	10
FLUID DIELECTRIC PARAMETERS (Cont.)	11
6.0 SAR MEASUREMENT SUMMARY	12
7.0 DETAILS OF SAR EVALUATION	13
8.0 SAR EVALUATION PROCEDURES	13
9.0 CO-LOCATED TRANSMITTER(S)	14
10.0 SIMULTANEOUS TRANSMISSION ASSESSMENT	14
11.0 SYSTEM PERFORMANCE CHECK	15
12.0 SIMULATED EQUIVALENT TISSUES	16
13.0 SAR LIMITS	16
14.0 ROBOT SYSTEM SPECIFICATIONS	17
15.0 PROBE SPECIFICATIONS	18
16.0 BARSKI PLANAR PHANTOM	18
17.0 DEVICE HOLDER	18
18.0 TEST EQUIPMENT LIST	19
19.0 MEASUREMENT UNCERTAINTIES	20
MEASUREMENT UNCERTAINTIES (Cont.)	21
20.0 REFERENCES	22
APPENDIX A - SAR MEASUREMENT PLOTS	23
APPENDIX B - SYSTEM PERFORMANCE CHECK PLOTS	32
APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS	37
APPENDIX D - SAR TEST SETUP PHOTOGRAPHS	40
APPENDIX E - SAR DUT PHOTOGRAPHS	42
APPENDIX F - DIPOLE CALIBRATION	54
APPENDIX G - PROBE CALIBRATION	55
APPENDIX H - BARSKI PLANAR PHANTOM CERTIFICATE OF CONFORMITY	56


	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	



### REVISION HISTORY

REVISION NO.	DESCRIPTION	IMPLEMENTED BY	RELEASE DATE
1.0	Initial Release	Jon Hughes	December 19, 2010

### TEST REPORT SIGN-OFF

DEVICE TESTED BY	REPORT PREPARED BY	QA REVIEW BY	REPORT APPROVED BY
Scott Kulifaj	Scott Kulifaj	Jon Hughes	Sean Johnston

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 1.0 INTRODUCTION

This measurement report demonstrates that the Xplore Technologies Corporation Model: iX104C5 Tablet PC, incorporating the GOBI2000 WWAN Mini-PCI Express Card FCC ID: Q2GGOBI2K-XPL (with Pump-Up Antenna), complies with the SAR (Specific Absorption Rate) RF exposure requirements of 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]), Industry Canada RSS-102 Issue 4 (see reference [4]), IEEE Standard 1528-2003 (see reference [5]), IEC International Standard 62209-1 (see reference [6]) and IEC International Standard 62209-2 (see reference [7]) were employed. A description of the product, 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 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 head 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 Electro-optical 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 sideways probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot utilizes a controller with built in VME-bus computer.



## 3.0 SAR PROBE CALIBRATION & MEASUREMENT FREQUENCIES

The following procedures are recommended for measurements at 150 MHz - 3 GHz to minimize probe calibration and tissue dielectric parameter discrepancies. In general, SAR measurements below 300 MHz should be within  $\pm 50$  MHz of the probe calibration frequency. At 300 MHz to 3 GHz, measurements should be within  $\pm 100$  MHz of the probe calibration frequency. Measurements exceeding 50% of these intervals,  $\pm 25$  MHz < 300 MHz and  $\pm 50$  MHz  $\geq 300$  MHz, require additional steps (per FCC KDB 450824 D01 v01r01, SAR Probe Calibration and System Verification Considerations for Measurements at 150 MHz - 3 GHz - see reference [10]).

Probe Calibration Freq.	Device Measurement Freq.	Frequency Interval	$\pm 50$ MHz $\geq 300$ MHz
835 MHz	836.6 MHz	1.6 MHz	< 50 MHz
	836.4 MHz	1.4 MHz	< 50 MHz
	836.52 MHz	1.52 MHz	< 50 MHz
1900 MHz	1880.0 MHz	20 MHz	< 50 MHz

The probe calibration and measurement frequency interval is < 50 MHz; therefore the additional steps were not required.

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 4.0 OUTPUT POWER MEASUREMENTS

### GPRS Mode


#### Procedure used to establish test signal



The following setting was used to configure the Agilent 8960 Series E5515C wireless communications test set.

Service Selection > Test Mode A - Auto Slot Config. > off  
 Main Service > Packet Data  
 Network Support > GSM+GPRS  
 Slot Config > 33 dBm (GSM850) & 30 dBm (GSM1900)  
 BAP: Burst Average Power  
 Pavg: Average power over all time slots

RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS – GPRS Mode									
2 Uplink Slots (Multislot Class 10)									
Mode / Band	Channel	Freq. (MHz)	Burst-Average Power		Mode / Band	Channel	Freq. (MHz)	Burst-Average Power	
			dBm	Watts				dBm	Watts
GPRS 850	128	824.2	32.6	1.82	GPRS 1900	512	1850.2	29.9	0.977
	190	836.6	32.6	1.74		661	1880.0	29.9	0.977
	251	848.8	32.5	1.78		810	1909.8	29.8	0.955

Note: The EDGE mode conducted power levels specified by Sierra Wireless Inc. for the Gobi2000 WWAN module are ~ 5 dB lower than the conducted output power levels specified for GPRS mode and therefore EDGE mode was not evaluated.

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## OUTPUT POWER MEASUREMENTS (Cont.)

### WCDMA Mode

#### Procedure used to establish test signal

This procedure assumes the Agilent 8960 Series E5515C wireless communications test set has the following applications installed and with valid license.

Application: WCDMA Mobile Test

Rev, License: A.07.13, L

Call Setup > Shift & Preset

Cell Parameters: PS Domain Information > Present  
ATT (IMSI Attach) Flag State > Set

Security Parameter - System Operations > None

Channel Type: RMC - 12.2k, 64k, 144k, 384k  
AMC - 12.2k UL / 64 DL AM RMC,  
12.2k UL / 144 DL AM RMC,  
12.2k UL / 384 DL AM RMC

Paging Service: RB Test Mode

Channel Parameters (UARFCN):

DL Channel: PCS: 9662 / 9800 / 9938  
Cell: 4357 / 4407 / 4458


UL Channel: PCS: 9262 / 9400 / 9538  
Cell: 4132 / 4182 / 4233



DL DTCH Data: All Ones  
RLC Reestablish: Off  
Call Limit State: Off  
Call Drop Timer: Off  
SRB Config. 13.6k DCCH  
UE Target Power: 25 dBm  
UL CL Pwr Ctrl Mode: All Up Bits

### RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS – WCDMA Mode

Channel Type: 12.2k RMC									
Mode / Band	Channel	Freq. (MHz)	Channel Power		Mode / Band	Channel	Freq. (MHz)	Channel Power	
			dBm	Watts				dBm	Watts
WCDMA 850	4132	826.4	24.0	0.251	WCDMA 1900	9262	1852.4	23.9	0.254
	4180	836.4	24.0	0.254		9400	1880.0	24.0	0.251
	4233	846.6	23.8	0.254		9538	1907.6	23.7	0.234

Note: The conducted output power levels for HSDPA/HSUPA modes specified by Sierra Wireless Inc. for the Gobi2000 WWAN module are lower than the conducted output power levels specified for WCDMA mode; therefore HSDPA/HSUPA modes were not evaluated.

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## OUTPUT POWER MEASUREMENTS (Cont.)

### 1xEv-Do Rel. 0 Mode

#### Procedure used to establish test signal

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

<b><u>Application</u></b>	<b><u>Rev. License</u></b>
1xEv-Do Terminal Test	A.07.13, L

#### FTAP


- Call Setup → Shift & Preset
- Protocol Rev → 0 (1xEv-Do)
- Application Config → Enhanced Test Application Protocol → FTAP
- FTAP Rate → 307.2 kbps (2 Slot, QPSK)
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

#### RTAP



- Call Setup → Shift & Preset
- Protocol Rev → 0 (1xEv-Do)
- Application Config → Enhanced Test Application Protocol → RTAP
- RTAP Rate → 153.6 kbps
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

### RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS - 1xEv-Do Rev. 0 Mode

FTAP Rate = 307 kbps (2 slot) / RTAP Rate = 76.8 kbps									
Mode / Band	Channel	Freq. (MHz)	Channel Power		Mode / Band	Channel	Freq. (MHz)	Channel Power	
			dBm	Watts				dBm	Watts
1xEv-Do Rel. 0 (850)	1013	824.70	24.5	0.282	1xEv-Do Rel. 0 (1900)	25	1851.25	24.3	0.269
	384	836.52	24.5	0.282		600	1880.00	24.5	0.282
	777	848.31	24.3	0.269		1175	1908.75	24.4	0.269

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## OUTPUT POWER MEASUREMENTS (Cont.)

### 1xEv-Do Rev. A Mode

#### Procedure used to establish test signal

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

#### Application

1xEv-Do Terminal Test

#### Rev. License

A.07.13, L

#### FETAP

- Call Setup → Shift & Preset
- Protocol Rev → A (1xEv-Do-A)
- Application Config → Enhanced Test Application Protocol → FETAP
- FTAP Rate → 307.2 kbps (2 Slot, QPSK)
- Protocol Subtype Config → Release A Physical Layer Subtype → Subtype 0
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters > Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

#### RETAP



- Call Setup → Shift & Preset
- Protocol Rev → A (1xEv-Do-A)
- Application Config → Enhanced Test Application Protocol → RETAP
- F-Traffic Format → 4 (1024, 2,128) Canonical (307.2k, QPSK)
- R-Data Pkt Size → 4096
- Protocol Subtype Config → Release A Physical Layer Subtype → Subtype 2  
→ PL Subtype 2 Access Channel MAC Subtype → Default (Subtype 0)
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration > 16 Slots  
→ ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

### RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS - 1xEv-Do Rev. A Mode

FETAP Rate = 307 kbps (2 slot) / RETAP Rate = 2048 bps

Mode / Band	Channel	Freq. (MHz)	Channel Power		Mode / Band	Channel	Freq. (MHz)	Channel Power	
			dBm	Watts				dBm	Watts
1xEv-Do Rev. A (850)	1013	824.70	24.3	0.269	1xEv-Do Rev. A (1900)	25	1851.25	24.3	0.269
	384	836.52	24.4	0.275		600	1880.00	24.4	0.275
	777	848.31	24.3	0.269		1175	1908.75	24.2	0.263



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	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## OUTPUT POWER MEASUREMENTS (Cont.)

### CDMA 1xRTT Mode

#### Procedure used to establish test signal

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

#### Application

CDMA2000 Mobile Test

#### Rev. License


B.12.12, L



#### 1xRTT

- Call Setup → Shift & Preset
- Protocol Rev → 6 (IS-2000-0)
- Radio Config (RC) → RC3 (Fwd3, Rvs3)
- FCH Service Option (SO) Setup → SO55
- Traffic Data Rate → Full
- Cell info → Cell Parameters → System ID (SID) → 2238 (for Cellular) and 4145 (for PCS)  
→ Network ID (NID) → 65535
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

### RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS - 1xRTT Mode

RC3, SO55									
Mode / Band	Channel	Freq. (MHz)	Channel Power		Mode / Band	Channel	Freq. (MHz)	Channel Power	
			dBm	Watts				dBm	Watts
1xRTT 850	1013	824.70	24.5	0.282	1xRTT 1900	25	1851.25	24.3	0.269
	384	836.52	24.5	0.282		600	1880.00	24.5	0.282
	777	848.31	24.3	0.269		1175	1908.75	24.4	0.275


<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 5.0 FLUID DIELECTRIC PARAMETERS

FLUID DIELECTRIC PARAMETERS						
Date: 09/23/2010		Frequency: 835 MHz			Tissue: Body	
Freq (GHz)	Test_e	Test_s	835MHz Target_e	835MHz Target_s	Deviation Permittivity	Deviation Conductivity
0.735	53.62	0.91	55.2	0.97	-2.86%	-6.19%
0.745	53.30	0.91	55.2	0.97	-3.44%	-6.19%
0.755	53.16	0.92	55.2	0.97	-3.70%	-5.15%
0.765	53.20	0.94	55.2	0.97	-3.62%	-3.09%
0.775	53.12	0.94	55.2	0.97	-3.77%	-3.09%
0.785	52.97	0.97	55.2	0.97	-4.04%	0.00%
0.795	52.72	0.98	55.2	0.97	-4.49%	1.03%
0.805	53.29	0.98	55.2	0.97	-3.46%	1.03%
0.815	52.73	0.99	55.2	0.97	-4.47%	2.06%
0.825	52.49	1.00	55.2	0.97	-4.91%	3.09%
0.835	52.51	1.01	55.2	0.97	-4.87%	4.12%
0.8365*	52.50	1.01	55.2	0.97	-4.89%	4.12%
0.845	52.48	1.00	55.2	0.97	-4.93%	3.09%
0.855	52.50	1.01	55.2	0.97	-4.89%	4.12%
0.865	52.25	1.03	55.2	0.97	-5.34%	6.19%
0.875	52.42	1.05	55.2	0.97	-5.04%	8.25%
0.885	52.50	1.07	55.2	0.97	-4.89%	10.31%
0.895	52.43	1.07	55.2	0.97	-5.02%	10.31%
0.905	52.39	1.07	55.2	0.97	-5.09%	10.31%
0.915	52.30	1.09	55.2	0.97	-5.25%	12.37%
0.925	51.80	1.10	55.2	0.97	-6.16%	13.40%
0.935	51.66	1.12	55.2	0.97	-6.41%	15.46%



\*Interpolated using DASY4 Software

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## FLUID DIELECTRIC PARAMETERS (Cont.)

FLUID DIELECTRIC PARAMETERS						
Date: 10/13/2010		Frequency: 1900 MHz			Tissue: Body	
Freq (GHz)	Test_e	Test_s	1900MHz Target_e	1900MHz Target_s	Deviation Permittivity	Deviation Conductivity
1.80	51.95	1.38	53.30	1.52	-2.53%	-9.21%
1.81	52.02	1.4	53.30	1.52	-2.40%	-7.89%
1.82	51.87	1.4	53.30	1.52	-2.68%	-7.89%
1.83	51.64	1.4	53.30	1.52	-3.11%	-7.89%
1.84	51.87	1.42	53.30	1.52	-2.68%	-6.58%
1.85	51.82	1.44	53.30	1.52	-2.78%	-5.26%
1.86	51.78	1.45	53.30	1.52	-2.85%	-4.61%
1.87	51.77	1.47	53.30	1.52	-2.87%	-3.29%
1.88	51.79	1.47	53.30	1.52	-2.83%	-3.29%
1.89	51.79	1.48	53.30	1.52	-2.83%	-2.63%
1.90	51.5	1.48	53.30	1.52	-3.38%	-2.63%
1.91	51.45	1.51	53.30	1.52	-3.47%	-0.66%
1.92	51.74	1.51	53.30	1.52	-2.93%	-0.66%
1.93	51.71	1.53	53.30	1.52	-2.98%	0.66%
1.94	51.55	1.55	53.30	1.52	-3.28%	1.97%
1.95	51.77	1.54	53.30	1.52	-2.87%	1.32%
1.96	51.45	1.55	53.30	1.52	-3.47%	1.97%
1.97	51.63	1.59	53.30	1.52	-3.13%	4.61%
1.98	51.58	1.6	53.30	1.52	-3.23%	5.26%
1.99	51.6	1.61	53.30	1.52	-3.19%	5.92%
2.00	51.78	1.63	53.30	1.52	-2.85%	7.24%

	Date(s) of Evaluation Sep. 23 & Oct. 13, 2010	Test Report Serial No. 092110Q2G-T1048a-S24M	Test Report Revision No. Rev. 1.0 (Initial Release)	
	Test Report Issue Date December 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	


## 6.0 SAR MEASUREMENT SUMMARY



### BODY (LAP-HELD) SAR MEASUREMENT RESULTS

Test Date	Freq. Band	Test Freq.	Ch.	Test Mode		Tablet PC Position to Planar Phantom	Tablet PC Distance to Planar Phantom	Start Power (Conducted)		SAR Drift During Test	Measured SAR		
								dBm	Mode		dB	W/kg	1g/Pk
	MHz	MHz									P	1g	
Sep 23	850	836.6	190	GPRS Class 10	2 Uplink Slots	Bottom Side	Touch	32.6 24.0	BAP MAP	0.070		0.441	1g
		836.4	4182	WCDMA Rel99	12.2k RMC	Bottom Side	Touch	24.5	MAP	-0.083		0.456	1g
		836.52	384	EV-DO Rel. 0	FTAP 2 slot 307 kbps	Bottom Side	Touch	29.9	BAP	0.117		0.257	1g
Oct 13	1900	1880.0	661	GPRS Class 10	2 Uplink Slots	Bottom Side	Touch	24.0	MAP	0.017		0.221	1g
		1880.0	9400	WCDMA Rel99	12.2k RMC	Bottom Side	Touch	24.5	MAP	0.007		0.342	1g
		1880.0	600	EV-DO Rel. 0	FTAP 2 slot 307 kbps	Bottom Side	Touch	32.6	BAP	0.099		0.485	1g
<b>SAR LIMIT(S)</b>				<b>BODY</b>		<b>SPATIAL PEAK</b>		<b>RF EXPOSURE CATEGORY</b>					
<b>FCC 47 CFR 2.1093</b>		<b>Health Canada Safety Code 6</b>		<b>1.6 W/kg</b>		<b>1g average</b>		<b>General Population / Uncontrolled</b>					
<b>Test Date</b>	<b><math>\rho</math> (Kg/m<sup>3</sup>)</b>	<b>Ambient Temperature</b>		<b>Fluid Temperature</b>		<b>Fluid Depth</b>		<b>Relative Humidity</b>		<b>Atmospheric Pressure</b>			
September 23, 2010	1000	22.0 °C		22.7 °C		≥15 cm		35 %		101.1 kPa			
October 13, 2010	1000	21.0 °C		21.3 °C		≥15 cm		35 %		101.1 kPa			

#### Notes

1.	Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
2.	The SAR evaluations (3G modes) were performed in accordance with the procedures specified in FCC KDB 941225 D01v02 (see reference [9]).
3.	The measured SAR levels were < 0.8 W/kg (1g); therefore SAR evaluations for the remaining channels were not required (per FCC KDB 447498 Section 1)e)).
4.	Secondary SAR levels measured within 2 dB of the primary are reported (P = Primary, S = Secondary).
5.	The conducted power levels for EDGE mode, as specified by the manufacturer of the Gobi2000 WWAN module, are ~ 5 dB lower than the conducted output power levels specified for GPRS mode and therefore EDGE mode was not evaluated.
6.	The conducted power levels for HSDPA/HSUPA modes, as specified by the manufacturer of the Gobi2000 WWAN module, are lower than the conducted power levels specified for WCDMA Rel99 mode; therefore HSDPA/HSUPA modes were not evaluated.
7.	The conducted output power levels measured for EV-DO Rel. A were not > the conducted output power levels measured for EV-DO Rel. 0; therefore EV-DO Rel. A mode was not evaluated.
8.	The conducted output power levels measured for CDMA 1xRTT were not > 0.25 dB higher than the conducted output power levels measured for EV-DO Rel. 0; therefore CDMA 1xRTT mode was not evaluated.
9.	The SAR drift of the DUT during the SAR evaluations was measured by the DASY4 system.
10.	The internal battery of the Tablet PC was fully charged prior to the SAR evaluations.
11.	The fluid temperature was measured prior to and after the SAR evaluations. The fluid temperature remained within +/-2°C during the SAR evaluations.
12.	The dielectric parameters of the simulated tissue mixture were measured prior to the SAR evaluations using an HP 85070C Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C).

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 7.0 DETAILS OF SAR EVALUATION

### Test Configuration(s)

- The DUT was tested for body SAR (lap-held) with the bottom side of the Tablet PC parallel and touching the outer surface of the planar phantom.
- The detailed test setup photographs are shown in Appendix D.

### Test Mode(s)


- The SAR evaluations for GPRS mode were performed with an air-link communication established with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set with 2 uplink slots (Multi-slot Class 10).
- The SAR evaluations in WCDMA mode were performed with an air-link communication established with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set with 12.2 kbps RMC channel and the TPC bits configured to all "1s".
- The SAR evaluations in CDMA/EV-DO modes were performed with an air-link communication established with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set at maximum power in "all bits up" power control mode.



### Power Level(s)

- The conducted output power levels of the DUT were measured prior to the SAR evaluations (see Section 4.0) with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set and Gigatronix Universal Power Meter with Burst Average Power (GPRS mode) and Modulated Average Power (WCDMA, CDMA/EV-DO modes).

## 8.0 SAR EVALUATION PROCEDURES

- 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.
  - For body-worn and face-held devices a planar phantom was used.
- 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:
- 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.
- 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:
- Extrapolation is used to determine the values between the dipole center of the probe and the surface of the phantom. For E-Field Probe EX3DV4 this data cannot be measured because the center of the dipole sensors is 1.0 mm away from the probe tip and the distance between the probe and the boundary must be larger than 25% of the probe diameter. The probe diameter is 2.4 mm (see probe calibration document in Appendix F). In the DASY4 software, the distance between the sensor center and phantom surface is set to 2.0 mm. This provides a distance of 1.0 mm between the probe tip and the surface. For E-Field Probe ET3DV6 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 of the values between the dipole center and the surface of the phantom was based on trivariate quadratics computed from the previously calculated 3D interpolated points nearest the phantom surface.
- 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).
- 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.

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<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 9.0 CO-LOCATED TRANSMITTER(S)

The iX104C5 Tablet PC incorporating the GOBI2000 WWAN Mini-PCI Express Card FCC ID: Q2GGOBI2K-XPL (with "Pump-Up" Antenna) can be co-located with the following transmitters:

Transmitter Type	Manufacturer	FCC ID	IC ID	Model	Co-Transmit
WLAN	Intel	Q2GI6200-XPL	4596A-I6200XPL	622ANHMW	No
Class 2 Bluetooth	Broadcom	QDS-BRCM1043	4324A-BRCM1043	BCM92070MD_REF	Yes

## 10.0 SIMULTANEOUS TRANSMISSION ASSESSMENT


The provisions set forth in FCC KDB 447498 D01v04 Section 3)b)ii) were applied to determine simultaneous transmission SAR evaluations were not required based on the following:

WWAN Co-Transmission: WLAN can transmit simultaneously with Bluetooth  
 Bluetooth Output Power = 4.27 dBm (< 60/f mW)



Antenna-to-Antenna Distance: WWAN to Bluetooth = 17.9 cm

### Summary

SAR evaluation for simultaneous transmission of the WWAN and Bluetooth is not required based on the maximum conducted output power of the Bluetooth (for which stand-alone SAR evaluation not required) is < 60/f mW and the antenna-to-antenna separation distance (WWAN to Bluetooth) is > 5 cm.

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	Date(s) of Evaluation Sep. 23 & Oct. 13, 2010	Test Report Serial No. 092110Q2G-T1048a-S24M	Test Report Revision No. Rev. 1.0 (Initial Release)	
	Test Report Issue Date December 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

## 11.0 SYSTEM PERFORMANCE CHECK

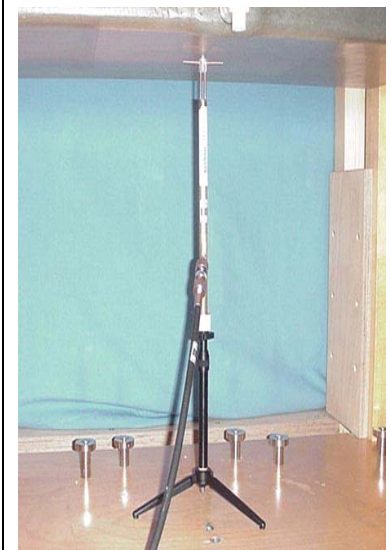
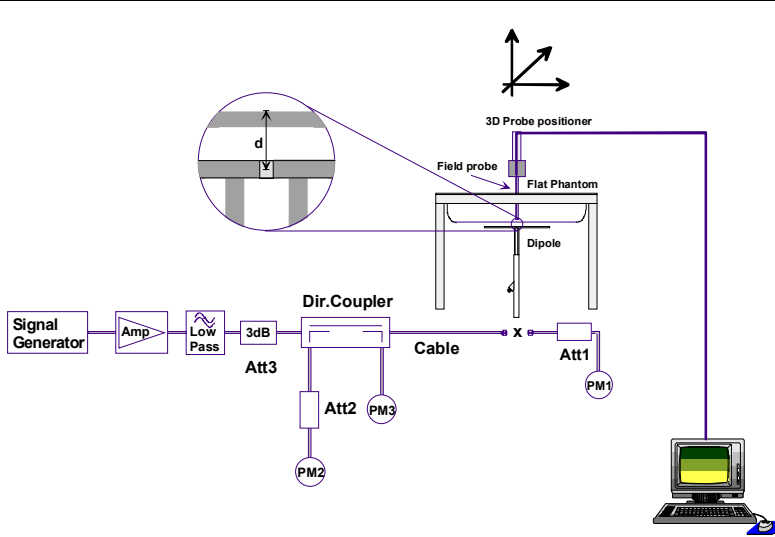
Prior to the SAR evaluations, daily system checks were performed using a planar phantom with 835 MHz and 1900 MHz SPEAG dipoles (see Appendix B for system performance check evaluation plots) in accordance with the procedures described in IEEE Standard 1528-2003 (see reference [5]) and IEC International Standard 62209-1:2005 (see reference [6]). The dielectric parameters of the simulated tissue mixtures were measured prior to the system performance checks using an HP 85070C Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C). A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of  $\pm 10\%$  from the system manufacturer's dipole calibration target SAR values (see Appendix F for system manufacturer's dipole calibration procedures).

### SYSTEM PERFORMANCE CHECK EVALUATION RESULTS

Test Date	Fluid Freq.	SAR 1g (W/kg)			Dielectric Constant $\epsilon_r$			Conductivity $\sigma$ (mho/m)			$\rho$ (kgm <sup>3</sup> )	Amb. Temp. (°C)	Fluid Temp. (°C)	Fluid Depth (cm)	Humid. (%)	Barom. Press. (kPa)
		Body (MHz)	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.						
Sep 23	835	2.49 $\pm 10\%$	2.72	+9.2%	55.2 $\pm 5\%$	52.5	-4.9%	0.97 $\pm 5\%$	1.01	+4.1%	1000	22.0	22.7	$\geq 15$	35	101.1
Oct 13	1900	10.6 $\pm 10\%$	10.2	-3.8%	53.3 $\pm 5\%$	51.8	-2.8%	1.52 $\pm 5\%$	1.47	-3.3%	1000	21.0	21.3	$\geq 15$	35	101.1

#### Notes


- The target SAR values are the measured values from the dipole calibration performed by SPEAG (see Appendix F).
- The target dielectric parameters are the nominal values from the dipole calibration performed by SPEAG (see Appendix F).
- The fluid temperature was measured prior to and after the system performance check to ensure the temperature remained within  $\pm 2^\circ\text{C}$  of the fluid temperature reported during the dielectric parameter measurements.
- The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer (see Appendix C).





System Performance Check Measurement Setup Diagram (IEEE 1528-2003)

835 MHz Validation Dipole Setup

1900 MHz Validation Dipole Setup

Applicant:	Xplore Technologies Corp.	FCC ID:	Q2GGOBI2K-XPL	IC:	4596A-GOBI2KXPL	
DUT Type:	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 12.0 SIMULATED EQUIVALENT TISSUES


The simulated equivalent tissue recipes listed in the table below are derived from the SAR system manufacturer's suggested recipe in the DASY4 manual (see reference [11]) in accordance with the procedures and requirements specified in IEEE Standard 1528-2003 (see reference [5]) and IEC Standard 62209-1:2005 (see reference [6]). The ingredient percentage may have been adjusted marginally in order to achieve the appropriate target dielectric parameters within the specified tolerance.



1900 MHz TISSUE MIXTURE	
INGREDIENT	1900 MHz BODY
Water	69.85 %
Glycol Monobutyl	29.89 %
Salt	0.26 %

835 MHz TISSUE MIXTURE	
INGREDIENT	835 MHz BODY
Water	53.79 %
Sugar	45.13 %
Salt	0.98 %
Bactericide	0.10 %

## 13.0 SAR LIMITS


SAR RF EXPOSURE LIMITS		
FCC 47 CFR 2.1093	(General Population / Uncontrolled Exposure)	(Occupational / Controlled Exposure)
Spatial Average (averaged over the whole body)	0.08 W/kg	0.4 W/kg
Spatial Peak (averaged over any 1 g of tissue)	<b>1.6 W/kg</b>	8.0 W/kg
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0 W/kg	20.0 W/kg
The Spatial Average value of the SAR averaged over the whole body.		
The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.		
The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.		
Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.		
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.		



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<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 14.0 ROBOT SYSTEM SPECIFICATIONS

<b><u>Specifications</u></b>	
<b>Positioner</b>	Stäubli Unimation Corp. Robot Model: RX60L
<b>Repeatability</b>	0.02 mm
<b>No. of axis</b>	6
<b><u>Data Acquisition Electronic (DAE) System</u></b>	
<b><u>Cell Controller</u></b>	
<b>Processor</b>	AMD Athlon XP 2400+
<b>Clock Speed</b>	2.0 GHz
<b>Operating System</b>	Windows XP Professional
<b><u>Data Converter</u></b>	
<b>Features</b>	Signal Amplifier, multiplexer, A/D converter, and control logic
<b>Software</b>	Measurement Software: DASY4, V4.7 Build 44
	Postprocessing Software: SEMCAD, V1.8 Build 171
<b>Connecting Lines</b>	Optical downlink for data and status info.; Optical uplink for commands and clock
<b><u>DASY4 Measurement Server</u></b>	
<b>Function</b>	Real-time data evaluation for field measurements and surface detection
<b>Hardware</b>	PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM
<b>Connections</b>	COM1, COM2, DAE, Robot, Ethernet, Service Interface
<b><u>E-Field Probe</u></b>	
<b><u>Probe (850 Band)</u></b>	
<b>Model</b>	ET3DV6
<b>Serial No.</b>	1590
<b>Construction</b>	Triangular core fiber optic detection system
<b>Frequency</b>	10 MHz to 6 GHz
<b>Linearity</b>	±0.2 dB (30 MHz to 3 GHz)
<b><u>Probe (1900 Band)</u></b>	
<b>Model</b>	EX3DV4
<b>Serial No.</b>	3600
<b>Construction</b>	Symmetrical design with triangular core
<b>Frequency</b>	10 MHz to 6 GHz
<b>Linearity</b>	±0.2 dB (30 MHz to 3 GHz)
<b><u>Phantom(s)</u></b>	
<b>Type</b>	Barski Planar Phantom
<b>Shell Material</b>	Fiberglass
<b>Thickness</b>	2.0 ±0.1 mm
<b>Volume</b>	Approx. 70 liters

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 15.0 PROBE SPECIFICATIONS

### ET3DV6 E-Field Probe

**Construction:** Symmetrical design with triangular core  
Built-in shielding against static charges  
PEEK enclosure material (resistant to organic solvents, 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  $\pm 8\%$ )

**Frequency:** 10 MHz to > 6 GHz; Linearity:  $\pm 0.2$  dB (30 MHz to 3 GHz)

**Directivity:**  $\pm 0.2$  dB in brain tissue (rotation around probe axis)  
 $\pm 0.4$  dB in brain tissue (rotation normal to probe axis)

**Dynamic Range:**  $5 \mu\text{W/g}$  to > 100 mW/g; Linearity:  $\pm 0.2$  dB

**Surface Detect:**  $\pm 0.2$  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 mobile phone



ET3DV6 E-Field Probe

### EX3DV4 E-Field Probe

**Construction:** Symmetrical design with triangular core  
Built-in shielding against static charges  
PEEK enclosure material (resistant to organic solvents, e.g. DGBE)

**Calibration:** Basic Broadband Calibration in air: 10-3000 MHz  
Conversion Factors (CF) for HSL 900 and HSL 1750

**Frequency:** 10 MHz to >6 GHz; Linearity:  $\pm 0.2$  dB (30 MHz to 3 GHz)

**Directivity:**  $\pm 0.3$  dB in HSL (rotation around probe axis)  
 $\pm 0.5$  dB in tissue material (rotation normal to probe axis)

**Dynamic Range:**  $10 \mu\text{W/g}$  to >100 mW/g; Linearity:  $\pm 0.2$  dB (noise: typically <  $1 \mu\text{W/g}$ )

**Dimensions:** Overall length: 330 mm (Tip: 20 mm)  
Tip diameter: 2.5 mm (Body: 12 mm)  
Typical distance from probe tip to dipole centers: 1.0 mm

**Application:** High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better than 30%.



EX3DV4 E-Field Probe

## 16.0 BARSKI PLANAR PHANTOM

The Barski 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. The Barski planar phantom was used for the DUT SAR evaluations and the system performance check evaluations. See Appendix H for dimensions and specifications of the Barski planar phantom.




Barski Planar Phantom



## 17.0 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 a Plexiglas platform is attached to the device holder.




Device Holder




<b>Applicant:</b> Xplore Technologies Corp.	<b>FCC ID:</b> Q2GGOBI2K-XPL	<b>IC:</b> 4596A-GOBI2KXPL	
<b>DUT Type:</b> Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna			
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 18.0 TEST EQUIPMENT LIST

TEST EQUIPMENT		ASSET NO.	SERIAL NO.	DATE CALIBRATED	CALIBRATION INTERVAL
USED	DESCRIPTION				
x	Schmid & Partner DASY4 System	-	-	-	-
x	-DASY4 Measurement Server	00158	1078	CNR	CNR
x	-Robot	00046	599396-01	CNR	CNR
x	-DAE4	00019	353	27Apr10	Annual
x	-ET3DV6 E-Field Probe	00017	1590	15Jul10	Annual
x	-EX3DV4 E-Field Probe	00213	3600	29Apr10	Annual
x	-D835V2 Validation Dipole	00217	4d075	20Apr09	Biennial
x	-D1900V2 Validation Dipole	00218	5d107	21Apr09	Biennial
x	-Barski Planar Phantom	00155	03-01	CNR	CNR
x	HP 85070C Dielectric Probe Kit	00033	none	CNR	CNR
x	Gigatronics 8652A Power Meter	00007	1835272	04May10	Biennial
x	Gigatronics 80701A Power Sensor	00014	1833699	04May10	Biennial
x	HP 8753ET Network Analyzer	00134	US39170292	04May10	Biennial
x	Agilent 8960 Series 10 Communication Test Set	N/A	GB46311315	24Sep09	Biennial
x	Rohde & Schwarz SMR20 Signal Generator	00006	100104	CNR	CNR
x	Amplifier Research 5S1G4 Power Amplifier	00106	26235	CNR	CNR
Abbr.	CNR = Calibration Not Required; N/A = Not Applicable				


<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	Date(s) of Evaluation Sep. 23 & Oct. 13, 2010	Test Report Serial No. 092110Q2G-T1048a-S24M	Test Report Revision No. Rev. 1.0 (Initial Release)	  Test Lab Certificate No. 2470.01
	Test Report Issue Date December 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

## 19.0 MEASUREMENT UNCERTAINTIES

UNCERTAINTY BUDGET FOR DEVICE EVALUATION									
Uncertainty Component	IEEE 1528 Section	Uncertainty Value $\pm\%$	Probability Distribution	Divisor	ci 1g	ci 10g	Uncertainty Value $\pm\%$ (1g)	Uncertainty Value $\pm\%$ (10g)	V <sub>i</sub> or V <sub>eff</sub>
<b>Measurement System</b>									
Probe Calibration (835 MHz)	E.2.1	5.5	Normal	1	1	1	5.5	5.5	$\infty$
Axial Isotropy	E.2.2	4.7	Rectangular	1.732050808	0.7	0.7	1.9	1.9	$\infty$
Hemispherical Isotropy	E.2.2	9.6	Rectangular	1.732050808	0.7	0.7	3.9	3.9	$\infty$
Boundary Effect	E.2.3	1	Rectangular	1.732050808	1	1	0.6	0.6	$\infty$
Linearity	E.2.4	4.7	Rectangular	1.732050808	1	1	2.7	2.7	$\infty$
System Detection Limits	E.2.5	1	Rectangular	1.732050808	1	1	0.6	0.6	$\infty$
Readout Electronics	E.2.6	0.3	Normal	1	1	1	0.3	0.3	$\infty$
Response Time	E.2.7	0.8	Rectangular	1.732050808	1	1	0.5	0.5	$\infty$
Integration Time	E.2.8	2.6	Rectangular	1.732050808	1	1	1.5	1.5	$\infty$
RF Ambient Conditions	E.6.1	3	Rectangular	1.732050808	1	1	1.7	1.7	$\infty$
Probe Positioner Mechanical Tolerance	E.6.2	0.4	Rectangular	1.732050808	1	1	0.2	0.2	$\infty$
Probe Positioning wrt Phantom Shell	E.6.3	2.9	Rectangular	1.732050808	1	1	1.7	1.7	$\infty$
Extrapolation, interpolation & integration algorithms for max. SAR evaluation	E.5	1	Rectangular	1.732050808	1	1	0.6	0.6	$\infty$
<b>Test Sample Related</b>									
Test Sample Positioning	E.4.2	2.9	Normal	1	1	1	2.9	2.9	12
Device Holder Uncertainty	E.4.1	3.6	Normal	1	1	1	3.6	3.6	8
SAR Drift Measurement	6.6.2	5	Rectangular	1.732050808	1	1	2.9	2.9	$\infty$
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty	E.3.1	4	Rectangular	1.732050808	1	1	2.3	2.3	$\infty$
Liquid Conductivity (target)	E.3.2	5	Rectangular	1.732050808	0.64	0.43	1.8	1.2	$\infty$
Liquid Conductivity (measured)	E.3.3	4.12	Normal	1	0.64	0.43	2.6	1.8	$\infty$
Liquid Permittivity (target)	E.3.2	5	Rectangular	1.732050808	0.6	0.49	1.7	1.4	$\infty$
Liquid Permittivity (measured)	E.3.3	4.89	Normal	1	0.6	0.49	2.9	2.4	$\infty$
<b>Combined Standard Uncertainty</b>			<b>RSS</b>				<b>11.08</b>	<b>10.64</b>	
<b>Expanded Uncertainty (95% Confidence Interval)</b>			<b>k=2</b>				<b>22.15</b>	<b>21.27</b>	
<b>Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003</b>									

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

Applicant:	Xplore Technologies Corp.	FCC ID:	Q2GG0BI2K-XPL	IC:	4596A-GOBI2KXPL		
DUT Type:	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna						
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	Date(s) of Evaluation Sep. 23 & Oct. 13, 2010	Test Report Serial No. 092110Q2G-T1048a-S24M	Test Report Revision No. Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	Test Report Issue Date December 19, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

## MEASUREMENT UNCERTAINTIES (Cont.)



### UNCERTAINTY BUDGET FOR DEVICE EVALUATION

Uncertainty Component	IEEE 1528 Section	Uncertainty Value $\pm\%$	Probability Distribution	Divisor	ci 1g	ci 10g	Uncertainty Value $\pm\%$ (1g)	Uncertainty Value $\pm\%$ (10g)	$V_1$ or $V_{eff}$
<b>Measurement System</b>									
Probe Calibration (1900 MHz)	E.2.1	5.5	Normal	1	1	1	5.5	5.5	$\infty$
Axial Isotropy	E.2.2	4.7	Rectangular	1.732050808	0.7	0.7	1.9	1.9	$\infty$
Hemispherical Isotropy	E.2.2	9.6	Rectangular	1.732050808	0.7	0.7	3.9	3.9	$\infty$
Boundary Effect	E.2.3	1	Rectangular	1.732050808	1	1	0.6	0.6	$\infty$
Linearity	E.2.4	4.7	Rectangular	1.732050808	1	1	2.7	2.7	$\infty$
System Detection Limits	E.2.5	1	Rectangular	1.732050808	1	1	0.6	0.6	$\infty$
Readout Electronics	E.2.6	0.3	Normal	1	1	1	0.3	0.3	$\infty$
Response Time	E.2.7	0.8	Rectangular	1.732050808	1	1	0.5	0.5	$\infty$
Integration Time	E.2.8	2.6	Rectangular	1.732050808	1	1	1.5	1.5	$\infty$
RF Ambient Conditions	E.6.1	3	Rectangular	1.732050808	1	1	1.7	1.7	$\infty$
Probe Positioner Mechanical Tolerance	E.6.2	0.4	Rectangular	1.732050808	1	1	0.2	0.2	$\infty$
Probe Positioning wrt Phantom Shell	E.6.3	2.9	Rectangular	1.732050808	1	1	1.7	1.7	$\infty$
Extrapolation, interpolation & integration algorithms for max. SAR evaluation	E.5	1	Rectangular	1.732050808	1	1	0.6	0.6	$\infty$
<b>Test Sample Related</b>									
Test Sample Positioning	E.4.2	2.9	Normal	1	1	1	2.9	2.9	12
Device Holder Uncertainty	E.4.1	3.6	Normal	1	1	1	3.6	3.6	8
SAR Drift Measurement	6.6.2	5	Rectangular	1.732050808	1	1	2.9	2.9	$\infty$
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty	E.3.1	4	Rectangular	1.732050808	1	1	2.3	2.3	$\infty$
Liquid Conductivity (target)	E.3.2	5	Rectangular	1.732050808	0.64	0.43	1.8	1.2	$\infty$
Liquid Conductivity (measured)	E.3.3	3.29	Normal	1	0.64	0.43	2.1	1.4	$\infty$
Liquid Permittivity (target)	E.3.2	5	Rectangular	1.732050808	0.6	0.49	1.7	1.4	$\infty$
Liquid Permittivity (measured)	E.3.3	2.83	Normal	1	0.6	0.49	1.7	1.4	$\infty$
<b>Combined Standard Uncertainty</b>			<b>RSS</b>				<b>10.70</b>	<b>10.40</b>	
<b>Expanded Uncertainty (95% Confidence Interval)</b>			<b>k=2</b>				<b>21.40</b>	<b>20.80</b>	
<b>Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003</b>									

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2


<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 20.0 REFERENCES


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- [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 - "Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)", Radio Standards Specification RSS-102 Issue 4: March 2010.
- [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.
- [6] International Standard IEC 62209-1:2005 - "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for handheld devices used in close proximity to the ear (300 MHz to 3 GHz)".
- [7] International Standard IEC 62209-2 Edition 1.0 2010-03 - "Human exposure to radio frequency fields from hand-held & body-mounted wireless communication devices - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)".
- [8] Federal Communications Commission, Office of Engineering and Technology - "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies"; KDB 447498 D01v04: November 2009.
- [9] Federal Communications Commission - "SAR Measurement Procedures for 3G Devices"; KDB 941225 D01v02: October 2007.
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- [11] Schmid & Partner Engineering AG - DASy4 Manual V4.6, Chapter 17 Application Note, Body Tissue Recipe: Sept. 2005.
- [12] ISO/IEC 17025 - "General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)."
- [13] Federal Communications Commission - "Measurements Required: RF Power Output"; Rule Part 47 CFR §2.1046.
- [14] Industry Canada - "General Requirements and Information for the Certification of Radiocommunication Equipment", Radio Standards Specification RSS-Gen Issue 2: June 2007.



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<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## APPENDIX A - SAR MEASUREMENT PLOTS

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 09/23/2010

## Body SAR - GPRS 850 - 2 Uplink Slots - 836.6 MHz - Ch. 190 - Bottom Side Touch

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01  
WWAN Antenna P/N: 25.90A14.001 ("Pump-Up")**

Ambient Temp: 22.0°C; Fluid Temp: 22.7°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS - 2 Uplink

Frequency: 836.6 MHz; Duty Cycle: 1:4.16

Medium: M835 Medium parameters used:  $f = 836.6 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body SAR - Bottom Side of Tablet PC Touching Planar Phantom

**Area Scan (14x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.644 mW/g

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.8 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.441 mW/g; SAR(10 g) = 0.245 mW/g**

Maximum value of SAR (measured) = 0.672 mW/g

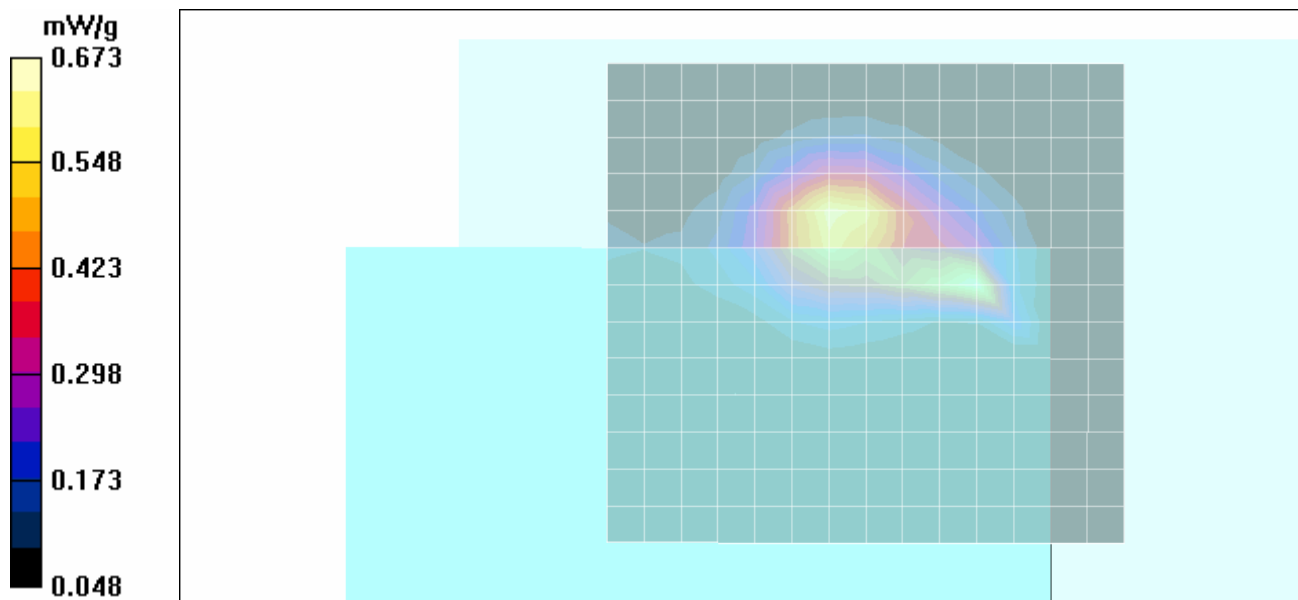
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 17.8 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 0.939 W/kg

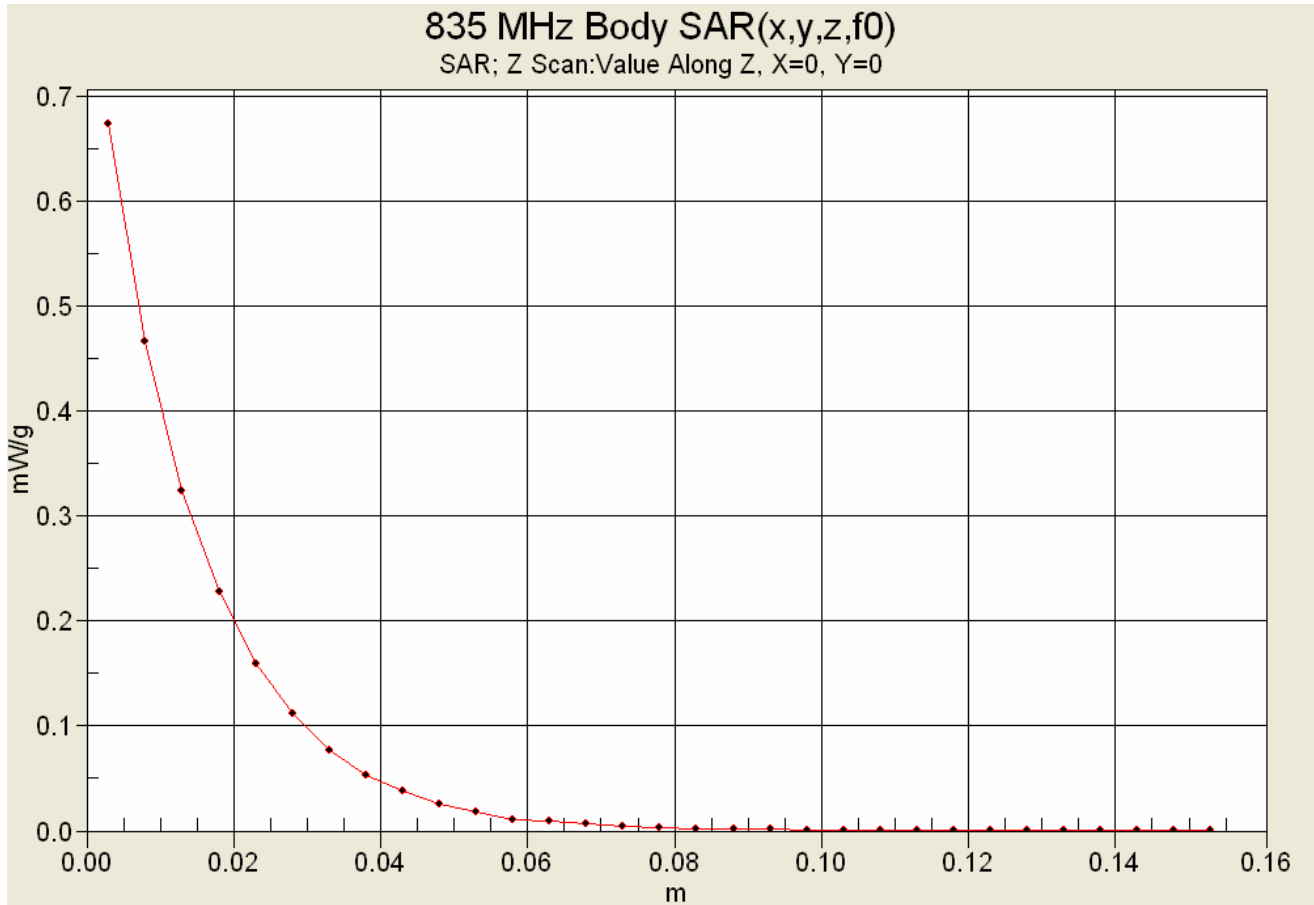
**SAR(1 g) = 0.579 mW/g; SAR(10 g) = 0.379 mW/g**



Maximum value of SAR (measured) = 0.673 mW/g



<b>Applicant:</b> Xplore Technologies Corp.	<b>FCC ID:</b> Q2GGOBI2K-XPL	<b>IC:</b> 4596A-GOBI2KXPL	
<b>DUT Type:</b> Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna	2010 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.		
Page 24 of 56			

### Z-Axis Scan



	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 09/23/2010

**Body SAR - WCDMA Rel99 (850) - 12.kbps - 836.4 MHz - Ch. 4182 - Bottom Side Touch**

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01  
WWAN Antenna P/N: 25.90A14.001 ("Pump-Up")**

Ambient Temp: 22.0°C; Fluid Temp: 22.7°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: WCDMA 850

Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used:  $f = 836.6 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body SAR - Bottom Side of Tablet PC Touching Planar Phantom**

**Area Scan (14x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.455 mW/g

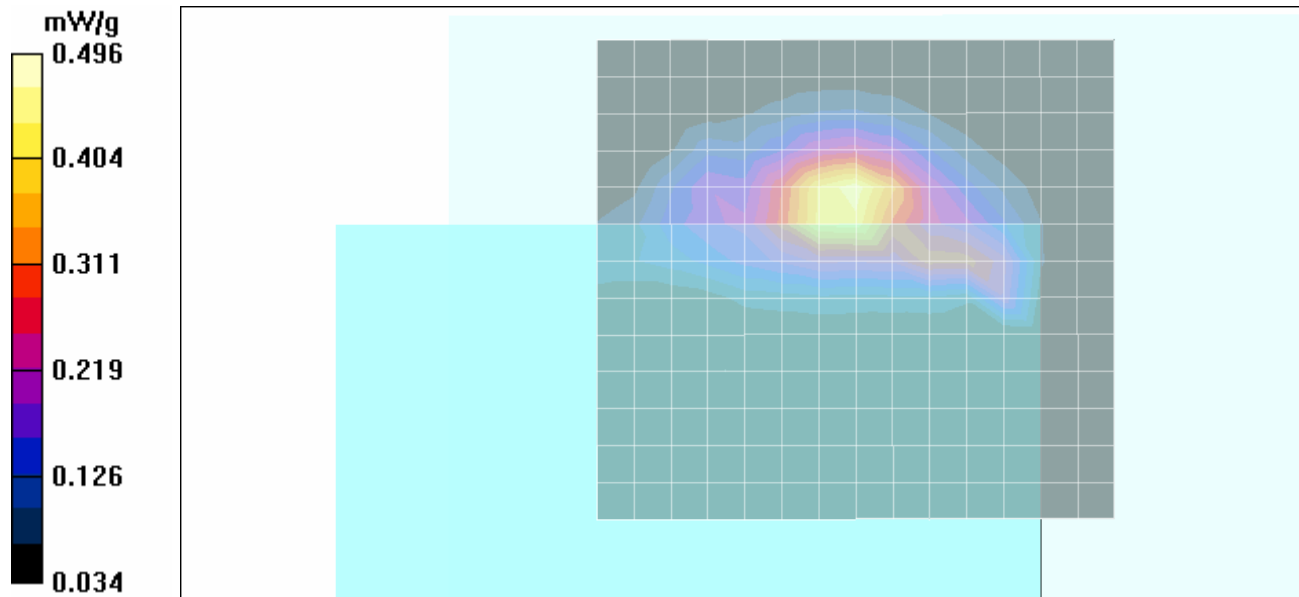
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$



Reference Value = 21.9 V/m; Power Drift = -0.083 dB

Peak SAR (extrapolated) = 0.632 W/kg

**SAR(1 g) = 0.456 mW/g; SAR(10 g) = 0.306 mW/g**

Maximum value of SAR (measured) = 0.496 mW/g



	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 09/23/2010

**Body SAR - EV-DO Rel. 0 (850) - FTAP 307kbps - 836.52 MHz - Ch. 384 - Bottom Side Touch**

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01  
WWAN Antenna P/N: 25.90A14.001 ("Pump-Up")**

Ambient Temp: 22.0 °C; Fluid Temp: 22.7°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: EV-DO Rel. 0

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used:  $f = 836.52 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body SAR - Bottom Side of Tablet PC Touching Planar Phantom**

**Area Scan (14x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.271 mW/g

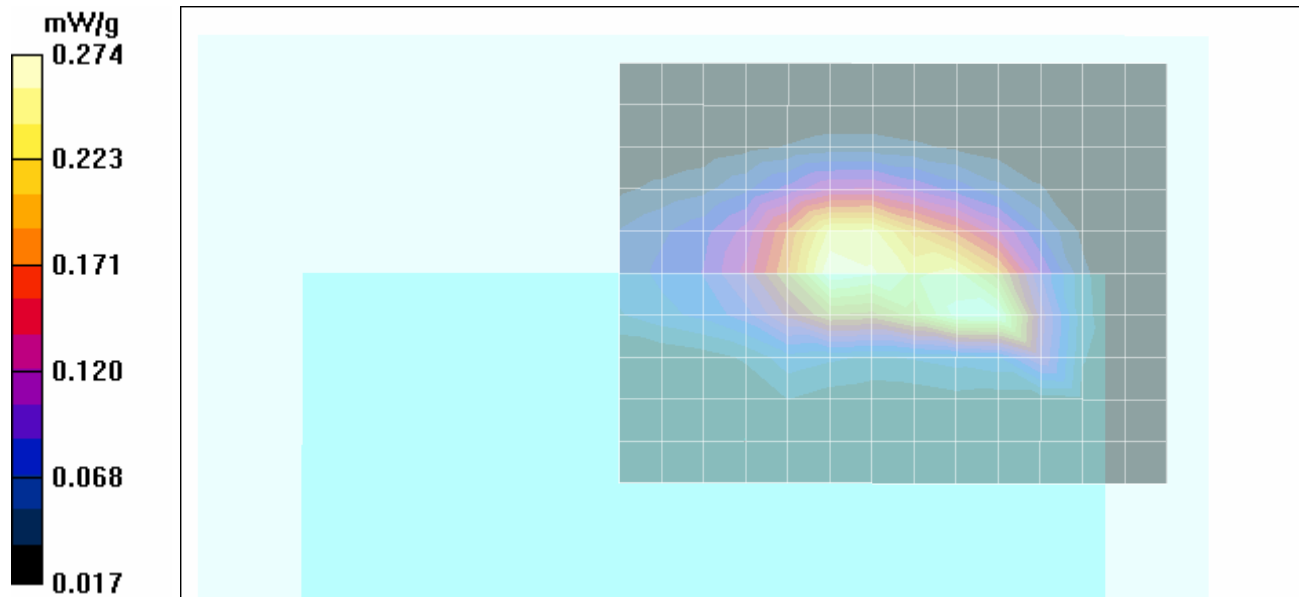
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$



Reference Value = 16.6 V/m; Power Drift = 0.117 dB

Peak SAR (extrapolated) = 0.512 W/kg

**SAR(1 g) = 0.257 mW/g; SAR(10 g) = 0.175 mW/g**

Maximum value of SAR (measured) = 0.274 mW/g



	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 10/13/2010

**Body SAR - GPRS 1900 - 2 Uplink Slots - 1880.0 MHz - Ch. 661 - Bottom Side Touch**

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01  
WWAN Antenna P/N: 25.90A14.001 ("Pump-Up")**

Ambient Temp: 21.0°C; Fluid Temp: 21.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS - 2 Uplink

Frequency: 1880 MHz; Duty Cycle: 1:4.16

Medium: M1880 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 51.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body SAR - Bottom Side of Tablet PC Touching Planar Phantom**

**Area Scan (14x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.256 mW/g

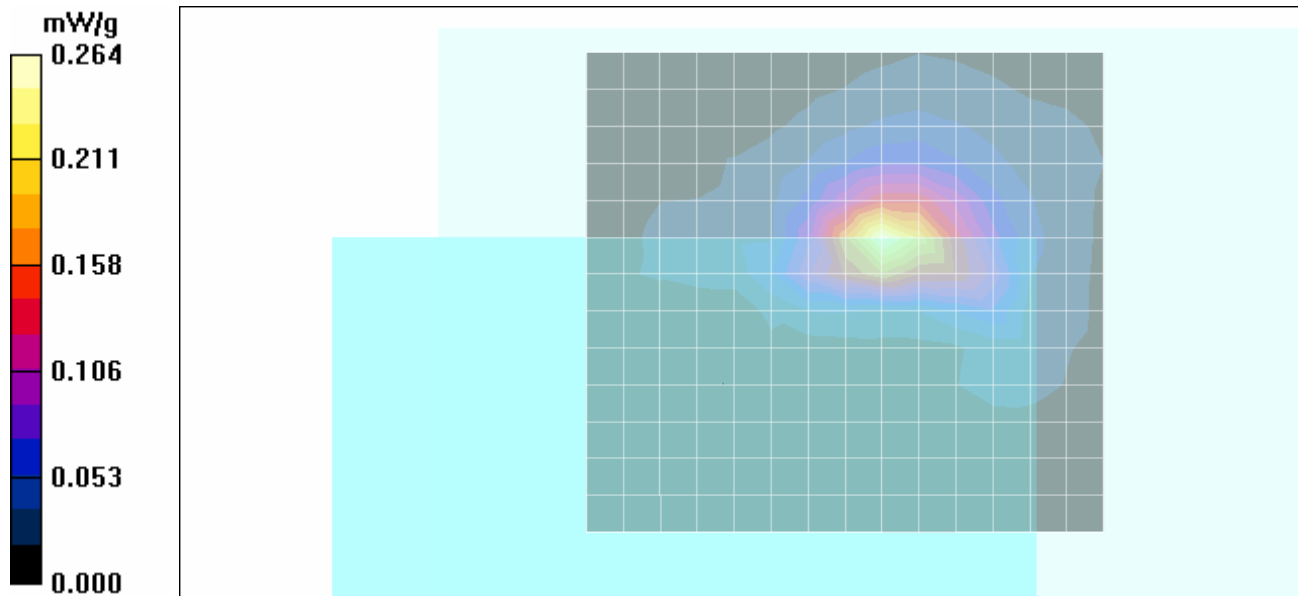
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$



Reference Value = 13.1 V/m; Power Drift = 0.017 dB

Peak SAR (extrapolated) = 0.382 W/kg

**SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.120 mW/g**

Maximum value of SAR (measured) = 0.264 mW/g



	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 10/13/2010

**Body SAR - WCDMA Rel99 (1900) - 12.2kbps - 1880.0 MHz - Ch. 9400 - Bottom Side Touch**

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01  
WWAN Antenna P/N: 25.90A14.001 ("Pump-Up")**

Ambient Temp: 21.0°C; Fluid Temp: 21.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: WCDMA 1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: M1880 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 51.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body SAR - Bottom Side of Tablet PC Touching Planar Phantom**

**Area Scan (14x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.350 mW/g

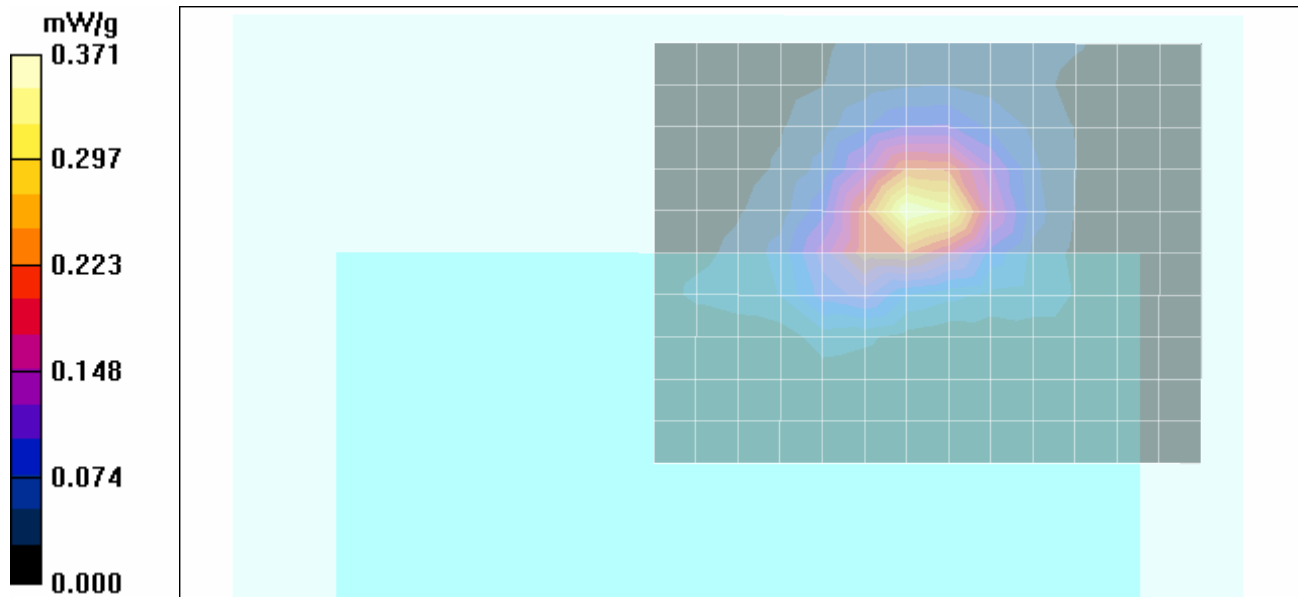
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 15.7 V/m; Power Drift = 0.007 dB



Peak SAR (extrapolated) = 0.554 W/kg

**SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.205 mW/g**

Maximum value of SAR (measured) = 0.371 mW/g





	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 10/13/2010

**Body SAR - EV-DO Rel. 0 (1900) - FTAP 307kbps - 1880.0 MHz - Ch. 600 - Bottom Side Touch**

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01  
WWAN Antenna P/N: 25.90A14.001 ("Pump-Up")**

Ambient Temp: 21.0°C; Fluid Temp: 21.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: EV-DO Rel. 0

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: M1880 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 51.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body SAR - Bottom Side of Tablet PC Touching Planar Phantom**

**Area Scan (11x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.471 mW/g

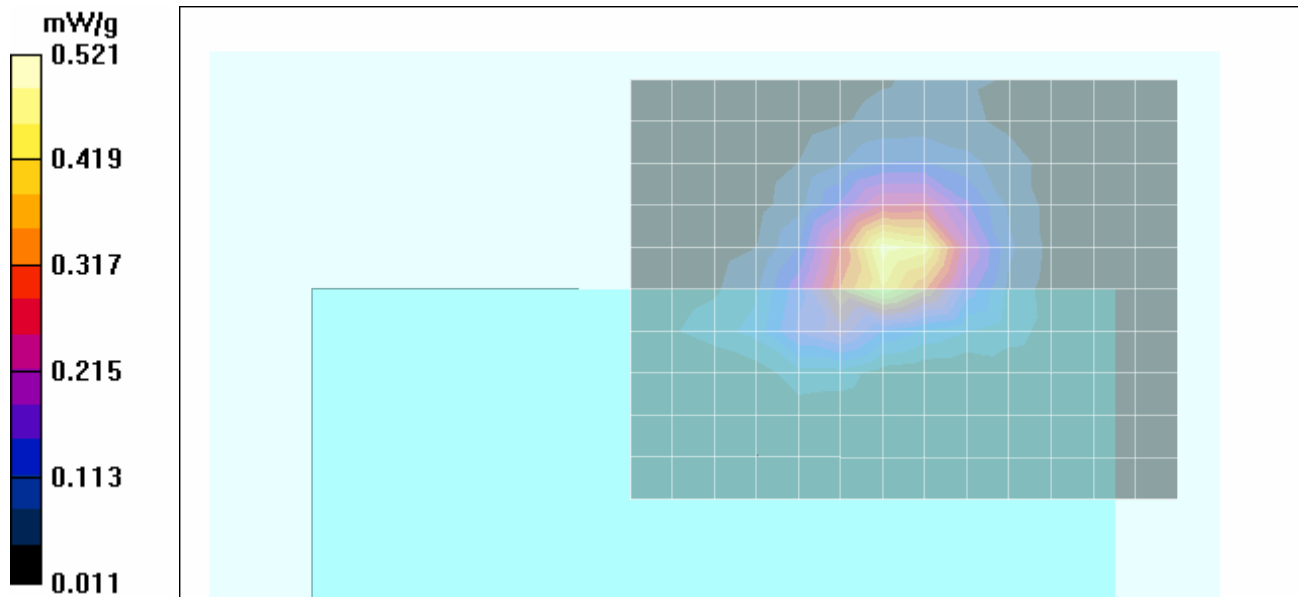
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 18.0 V/m; Power Drift = 0.099 dB

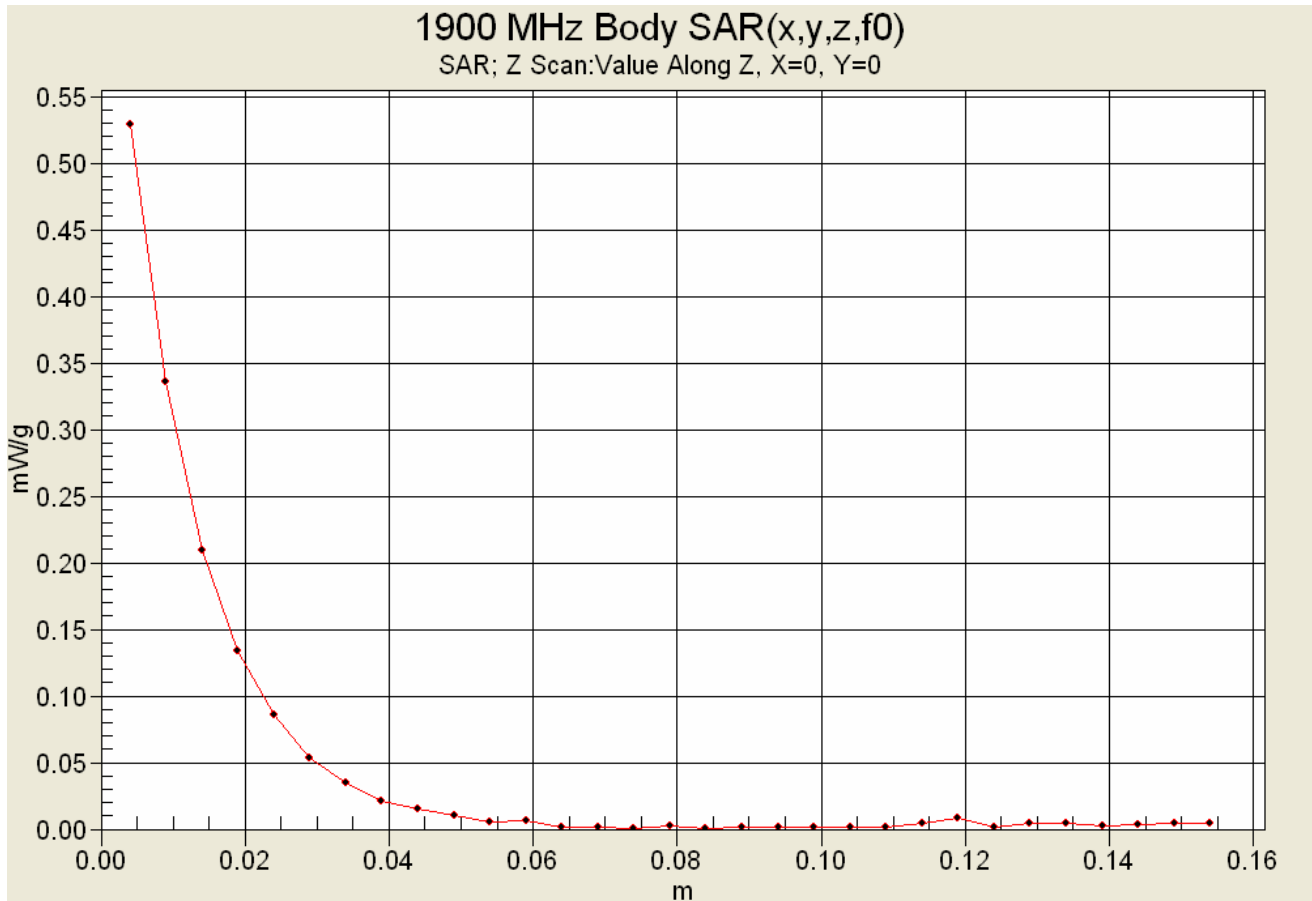
Peak SAR (extrapolated) = 0.812 W/kg



**SAR(1 g) = 0.485 mW/g; SAR(10 g) = 0.289 mW/g**

Maximum value of SAR (measured) = 0.521 mW/g






### Z-Axis Scan



	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

**APPENDIX B - SYSTEM PERFORMANCE CHECK PLOTS**

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 09/23/2010

## System Performance Check - 835 MHz Dipole - Body

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 20/04/2009**

Ambient Temp: 22.0°C; Fluid Temp: 22.7°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 52.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DAS4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 835 MHz System Performance Check

**Area Scan (6x10x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 2.90 mW/g

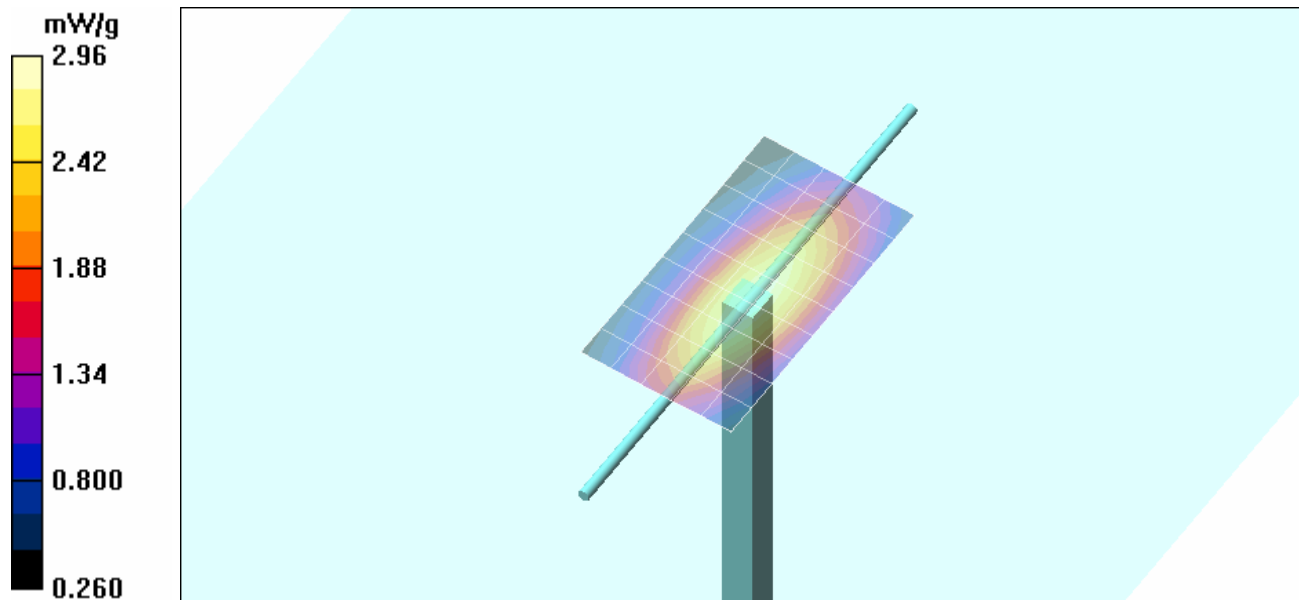
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 54.5 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 3.95 W/kg

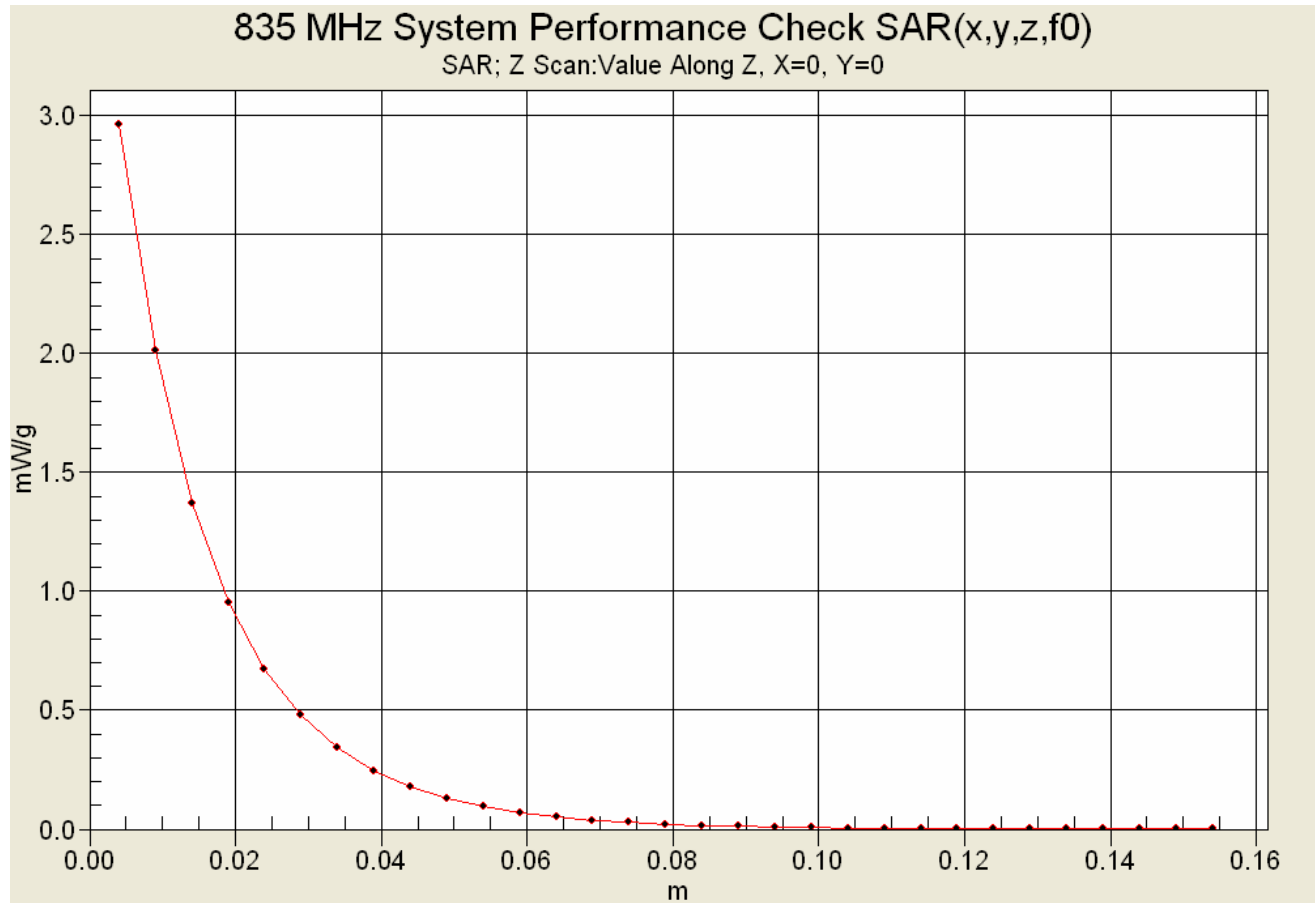
**SAR(1 g) = 2.72 mW/g; SAR(10 g) = 1.77 mW/g**



Maximum value of SAR (measured) = 2.96 mW/g



<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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### Z-Axis Scan



	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 10/13/2010

## System Performance Check - 1900 MHz Dipole - Body

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d107; Calibrated: 21/04/2009**

Ambient Temp: 21.0°C; Fluid Temp: 21.3°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.47 \text{ mho/m}$ ;  $\epsilon_r = 51.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.53, 6.53, 6.53); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 1900 MHz System Performance Check

**Area Scan (5x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.2 mW/g

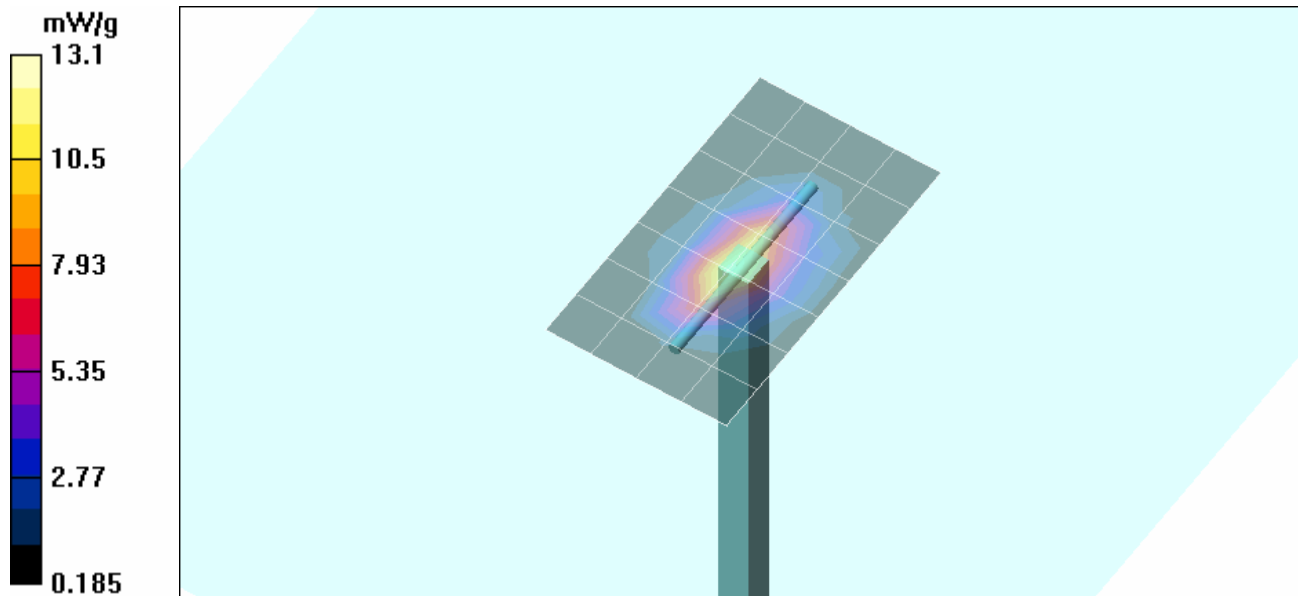
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 84.9 V/m; Power Drift = -0.082 dB

Peak SAR (extrapolated) = 19.6 W/kg

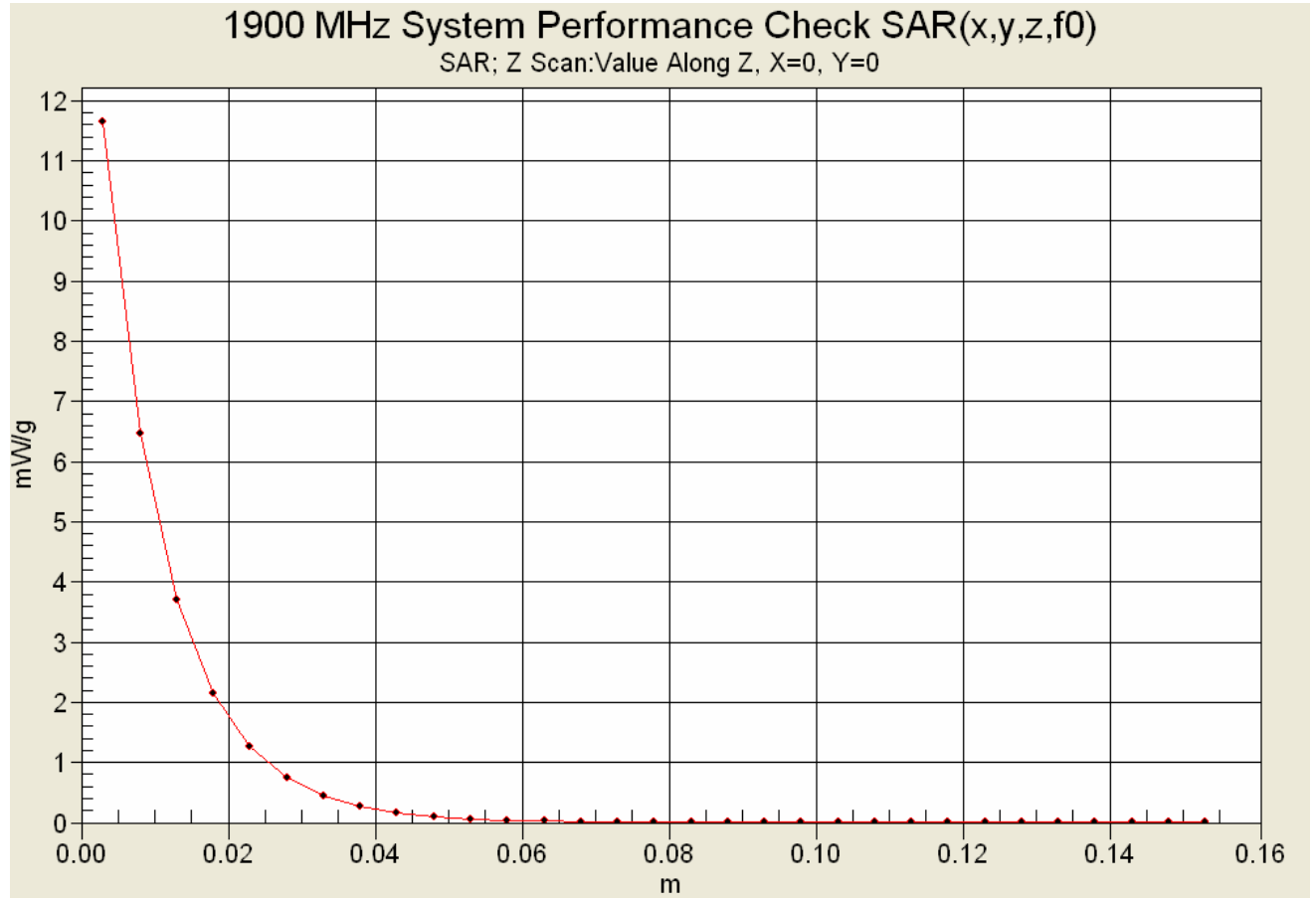
**SAR(1 g) = 10.2 mW/g; SAR(10 g) = 5.16 mW/g**



Maximum value of SAR (measured) = 13.1 mW/g




<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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**Z-Axis Scan**





	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

**APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS**

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	


### 835 MHz (Body)



\*\*\*\*\*

Celltech Labs Inc.  
 Test Result for UIM Dielectric Parameter  
 23/Sept/2010  
 Frequency (GHz)  
 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	53.62	0.91
0.7450	55.55	0.96	53.30	0.91
0.7550	55.51	0.96	53.16	0.92
0.7650	55.47	0.96	53.20	0.94
0.7750	55.43	0.97	53.12	0.94
0.7850	55.39	0.97	52.97	0.97
0.7950	55.36	0.97	52.72	0.98
0.8050	55.32	0.97	53.29	0.98
0.8150	55.28	0.97	52.73	0.99
0.8250	55.24	0.97	52.49	1.00
<b>0.8350</b>	<b>55.20</b>	<b>0.97</b>	<b>52.51</b>	<b>1.01</b>
0.8450	55.17	0.98	52.48	1.00
0.8550	55.14	0.99	52.50	1.01
0.8650	55.11	1.01	52.25	1.03
0.8750	55.08	1.02	52.42	1.05
0.8850	55.05	1.03	52.50	1.07
0.8950	55.02	1.04	52.43	1.07
0.9050	55.00	1.05	52.39	1.07
0.9150	55.00	1.06	52.30	1.09
0.9250	54.98	1.06	51.80	1.10
0.9350	54.96	1.07	51.66	1.12

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	


**1900 MHz (Body)**



\*\*\*\*\*

Celltech Labs Inc.  
 Test Result for UIM Dielectric Parameter  
 13/Oct/2010  
 Frequency (GHz)  
 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
1.8000	53.30	1.52	51.95	1.38
1.8100	53.30	1.52	52.02	1.40
1.8200	53.30	1.52	51.87	1.40
1.8300	53.30	1.52	51.64	1.40
1.8400	53.30	1.52	51.87	1.42
1.8500	53.30	1.52	51.82	1.44
1.8600	53.30	1.52	51.78	1.45
1.8700	53.30	1.52	51.77	1.47
1.8800	53.30	1.52	51.79	1.47
1.8900	53.30	1.52	51.79	1.48
<b>1.9000</b>	<b>53.30</b>	<b>1.52</b>	<b>51.50</b>	<b>1.48</b>
1.9100	53.30	1.52	51.45	1.51
1.9200	53.30	1.52	51.74	1.51
1.9300	53.30	1.52	51.71	1.53
1.9400	53.30	1.52	51.55	1.55
1.9500	53.30	1.52	51.77	1.54
1.9600	53.30	1.52	51.45	1.55
1.9700	53.30	1.52	51.63	1.59
1.9800	53.30	1.52	51.58	1.60
1.9900	53.30	1.52	51.60	1.61
2.0000	53.30	1.52	51.78	1.63

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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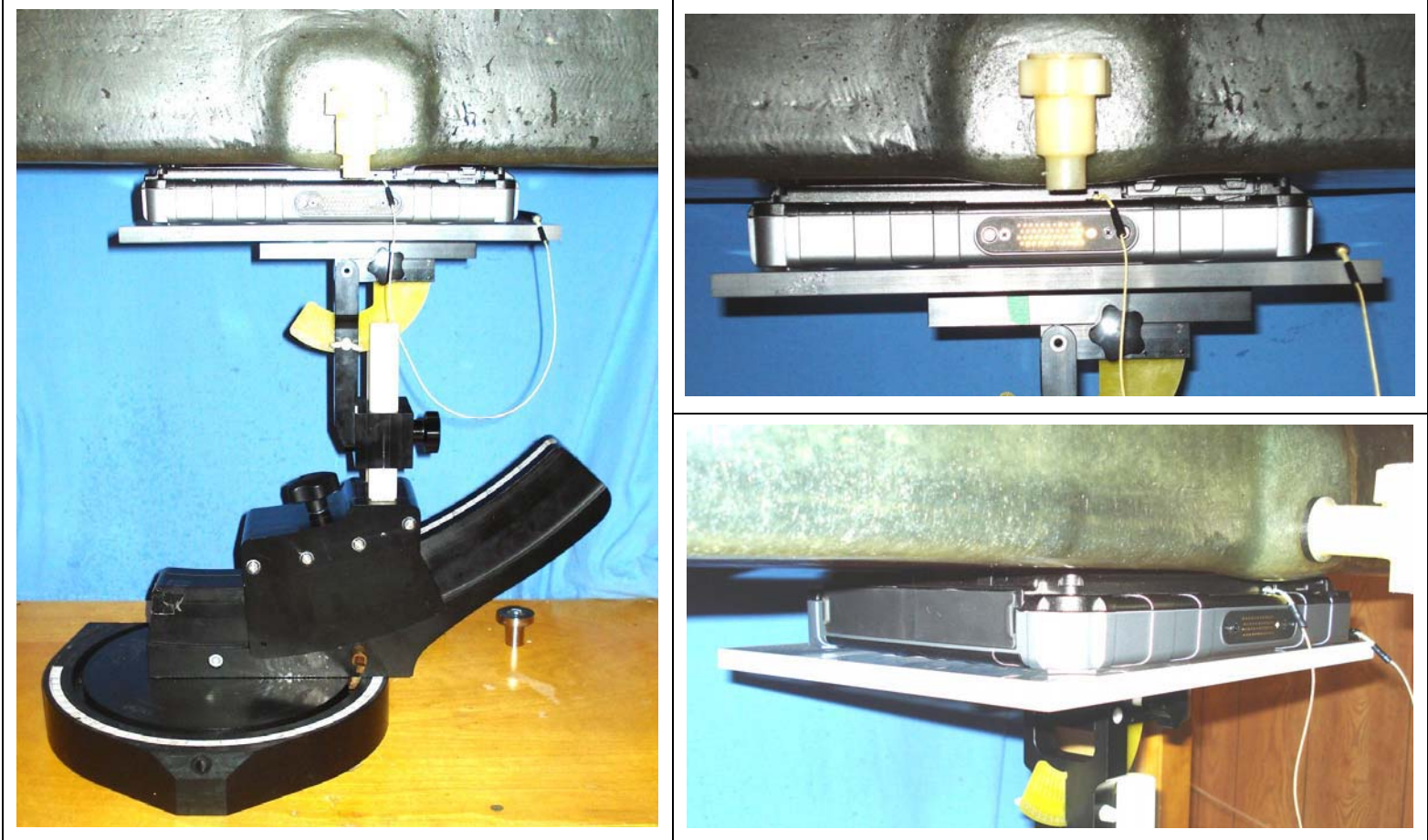
	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	



## APPENDIX D - SAR TEST SETUP PHOTOGRAPHS

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

**BODY (LAP-HELD) SAR TEST SETUP PHOTOGRAPHS**  
**Bottom Side of Tablet PC Touching Planar Phantom**





	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
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**APPENDIX E - SAR DUT PHOTOGRAPHS**

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

**WWAN Transmit Antenna Housing (Pumped-Up)**


**Tablet PC Model: iX104C5 - "0 Degrees Landscape" LCD Display Orientation**





<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	




<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	




<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	



**Bottom Side of Tablet PC with Li-ion Battery Removed**

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	



Right Edge of Tablet PC




Left Edge of Tablet PC





Top Edge of Tablet PC



Bottom Edge of Tablet PC

<b>Applicant:</b> Xplore Technologies Corp.	<b>FCC ID:</b> Q2GGOBI2K-XPL	<b>IC:</b> 4596A-GOBI2KXPL	
<b>DUT Type:</b> Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna	2010 Celltech Labs Inc. This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.		
			Page 47 of 56


	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	





**Front Side of Li-ion Battery**

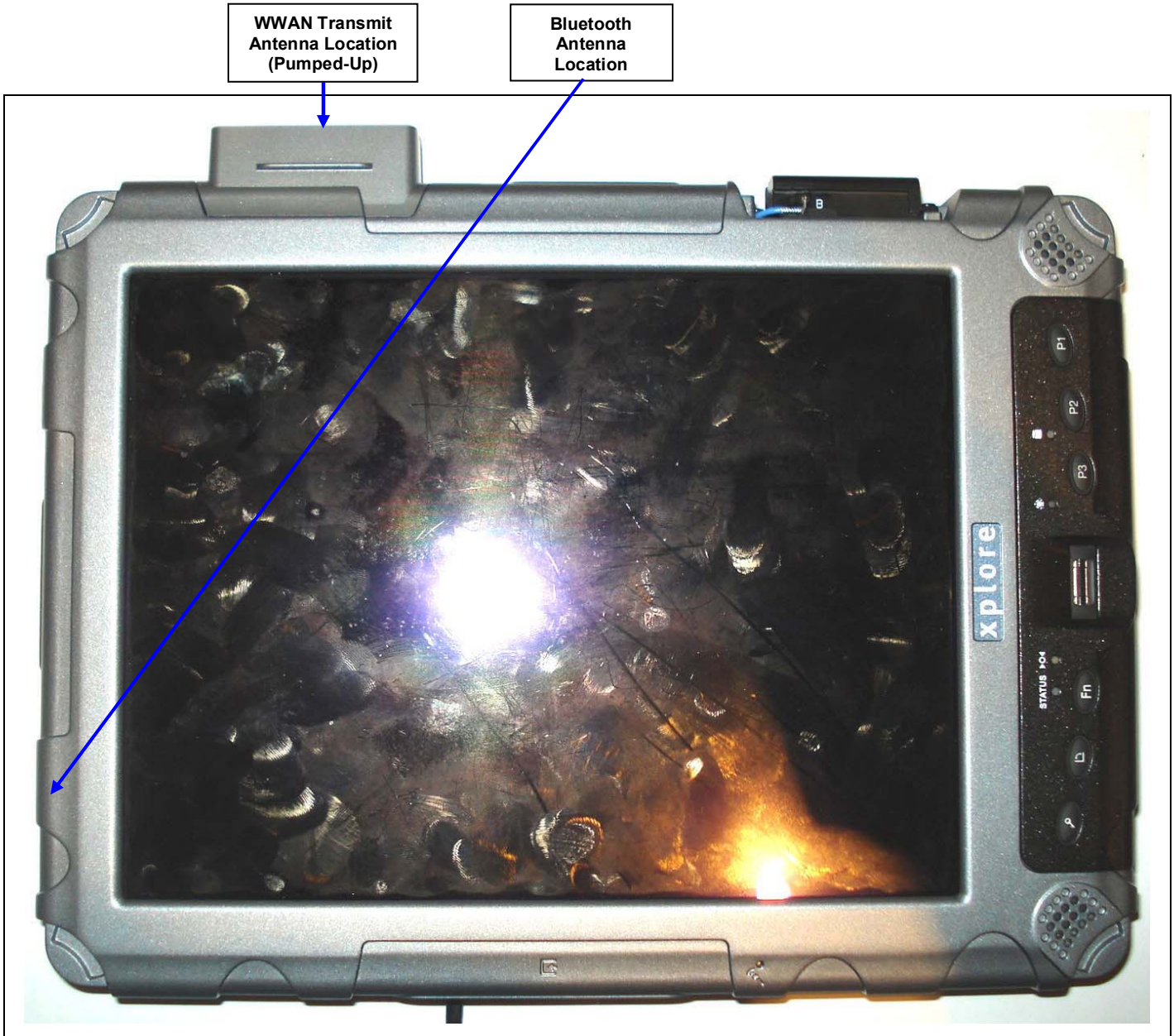


**Back Side of Li-ion Battery**


<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

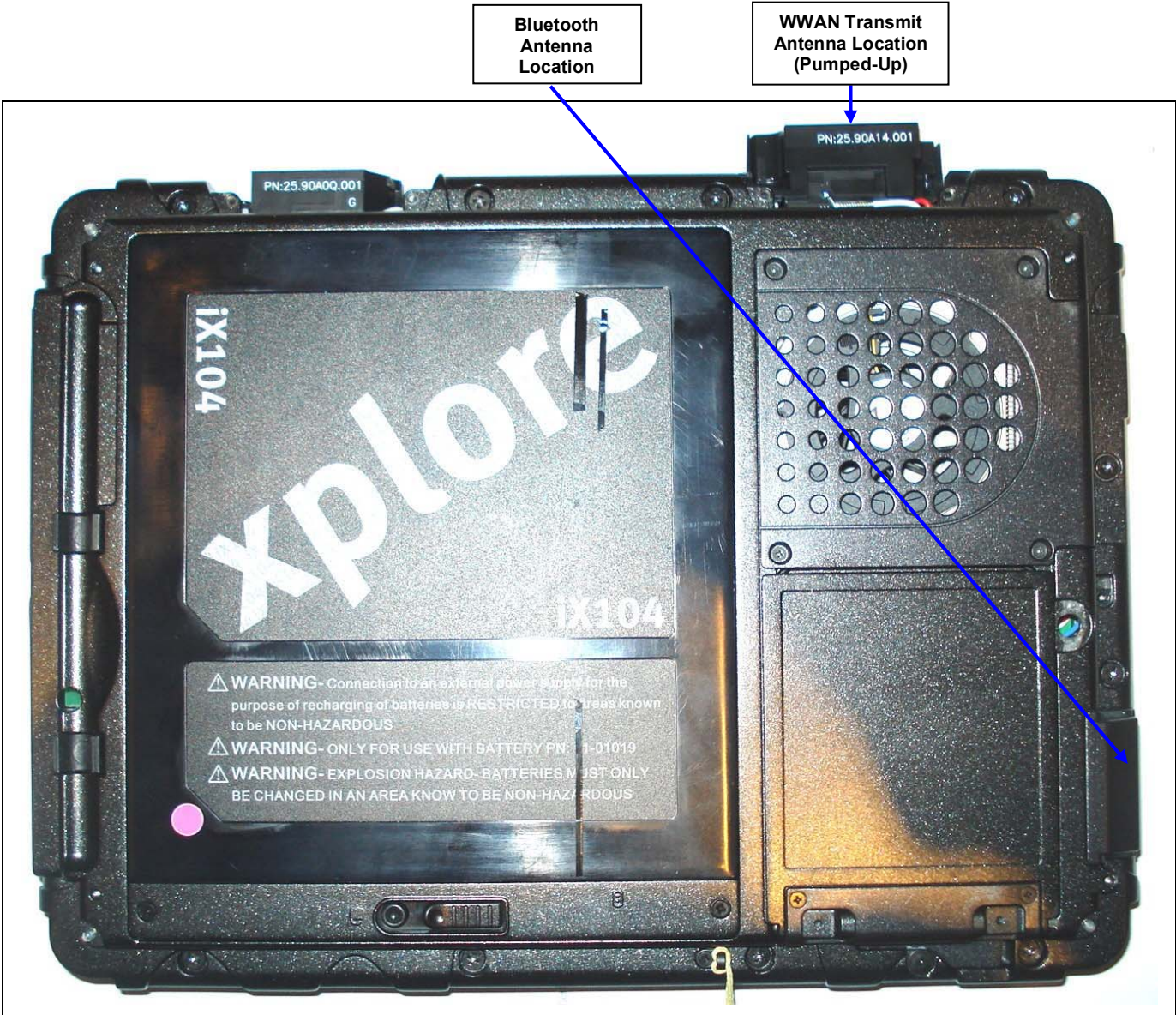


**ANTENNA LOCATION(S) – TOP SIDE OF iX104C5 TABLET PC**


<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

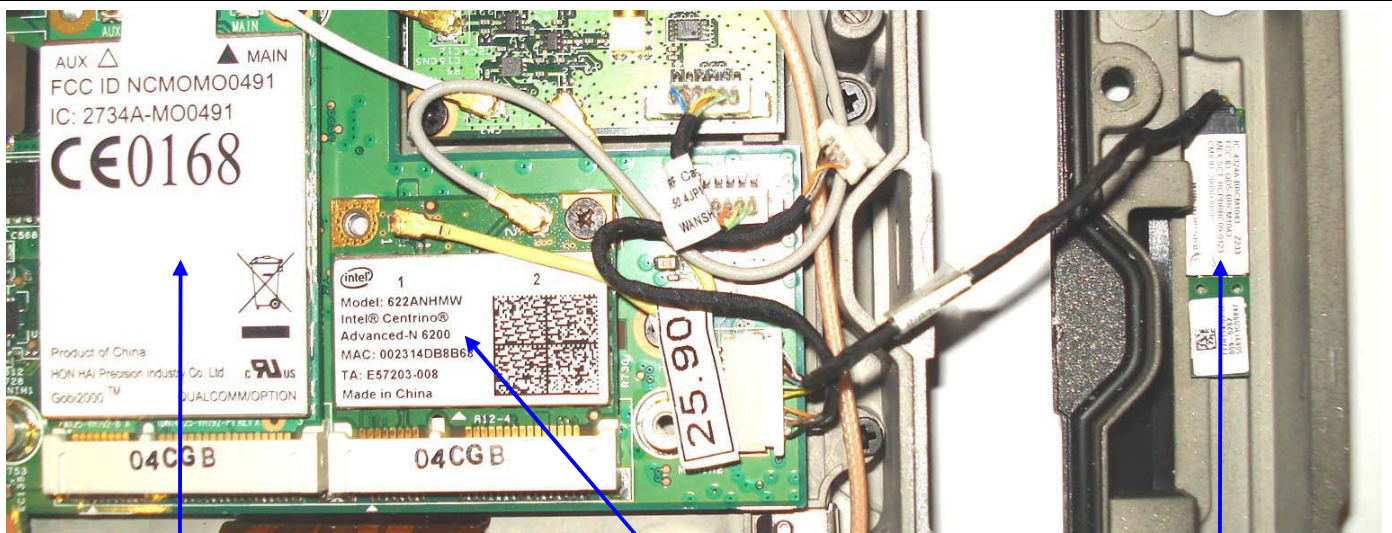
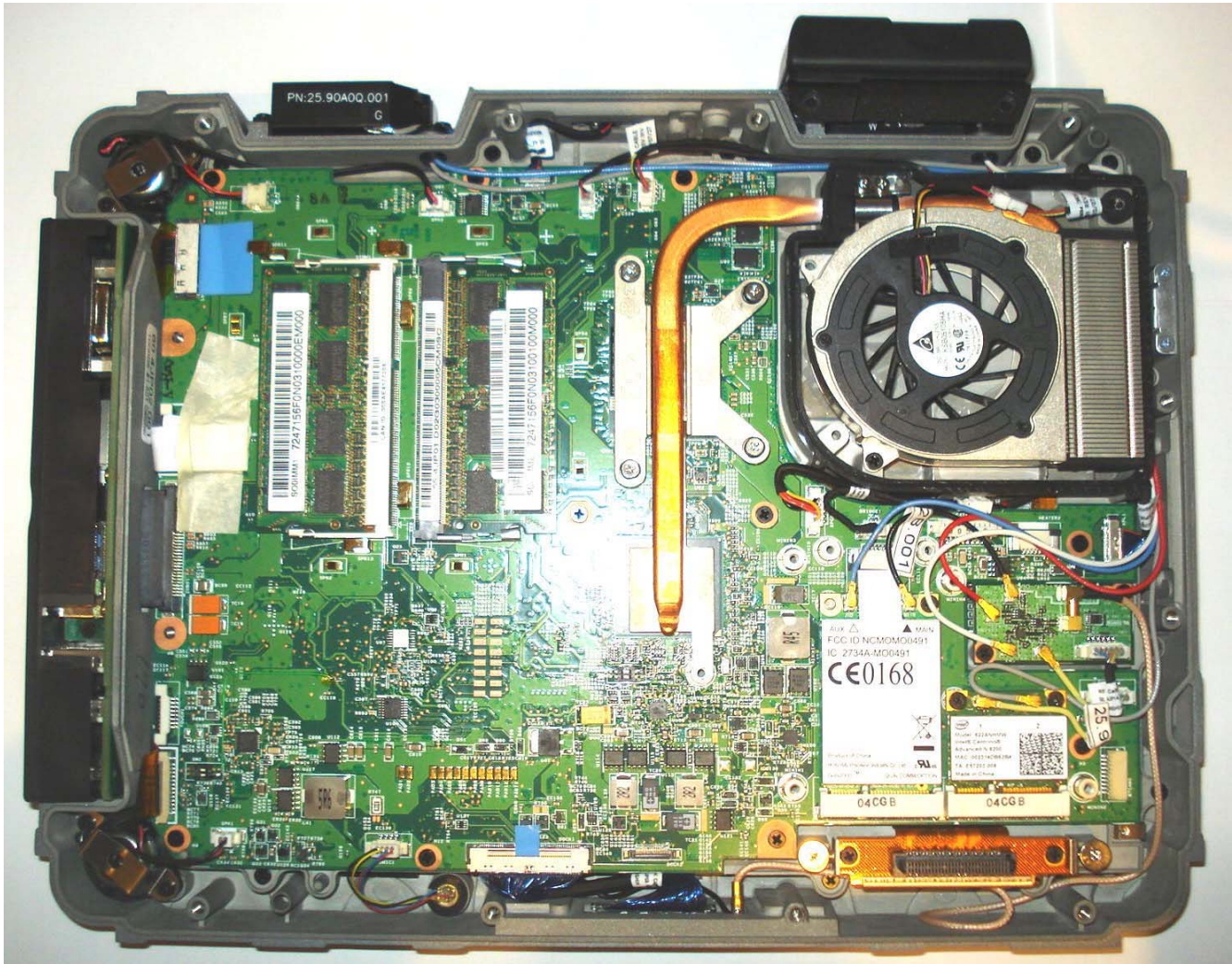


**ANTENNA LOCATION(S) – BOTTOM SIDE OF iX104C5 TABLET PC**

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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**Bottom Side view inside Tablet PC**





**GOBI2000 WWAN Module**

**622ANHMW WLAN Mini-PCI Express Module**

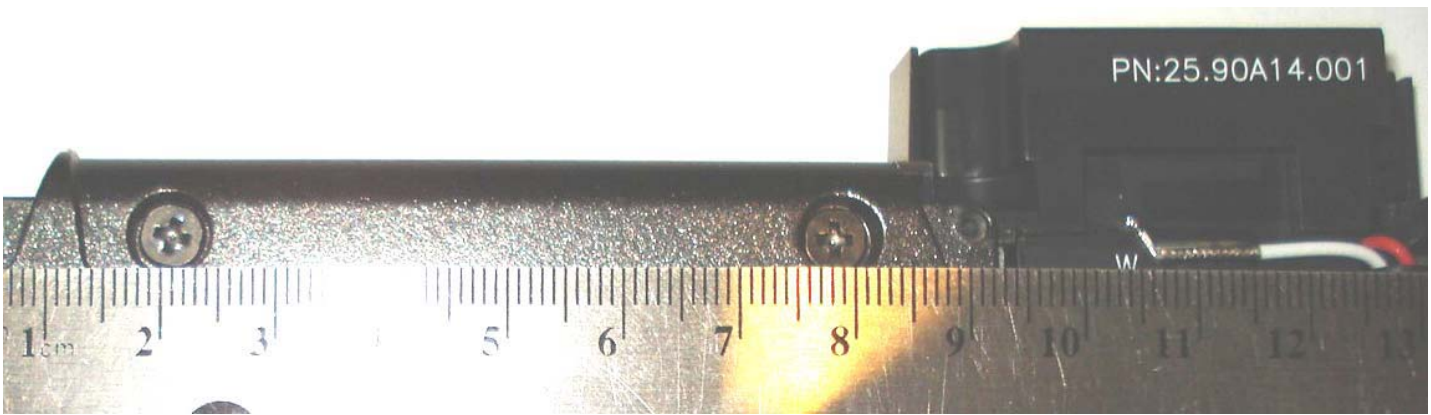
**Broadcom BCM92070MD\_REF Bluetooth Module**



	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	




**WWAN TRANSMIT ANTENNA HOUSING (“PUMP-UP”)**





**WWAN TRANSMIT ANTENNA (“PUMP-UP”)**




**BROADCOM BCM92070MD\_REF BLUETOOTH MODULE**



<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Date(s) of Evaluation</u> Sep. 23 & Oct. 13, 2010	<u>Test Report Serial No.</u> 092110Q2G-T1048a-S24M	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	




**GOBI2000 WWAN Mini-PCI Express Card**

<b>Applicant:</b>	Xplore Technologies Corp.	<b>FCC ID:</b>	Q2GGOBI2K-XPL	<b>IC:</b>	4596A-GOBI2KXPL	
<b>DUT Type:</b>	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna					
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	<u>Test Report Issue Date</u> December 19, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

**APPENDIX H - BARSKI PLANAR PHANTOM CERTIFICATE OF CONFORMITY**

<b>Applicant:</b>	<b>Xplore Technologies Corp.</b>	<b>FCC ID:</b>	<b>Q2GGOBI2K-XPL</b>	<b>IC:</b>	<b>4596A-GOBI2KXPL</b>	
<b>DUT Type:</b>	<b>Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Pump-Up Antenna</b>					
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E-mail: [barskiind@shaw.ca](mailto:barskiind@shaw.ca)  
Web: [www.bcfiberglass.com](http://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: \_\_\_\_\_

A handwritten signature in black ink, appearing to read 'Daniel Chailier', is written over a horizontal line.

Daniel Chailier





**Fiberglass Planar Phantom - Top View**



**Fiberglass Planar Phantom - Front View**



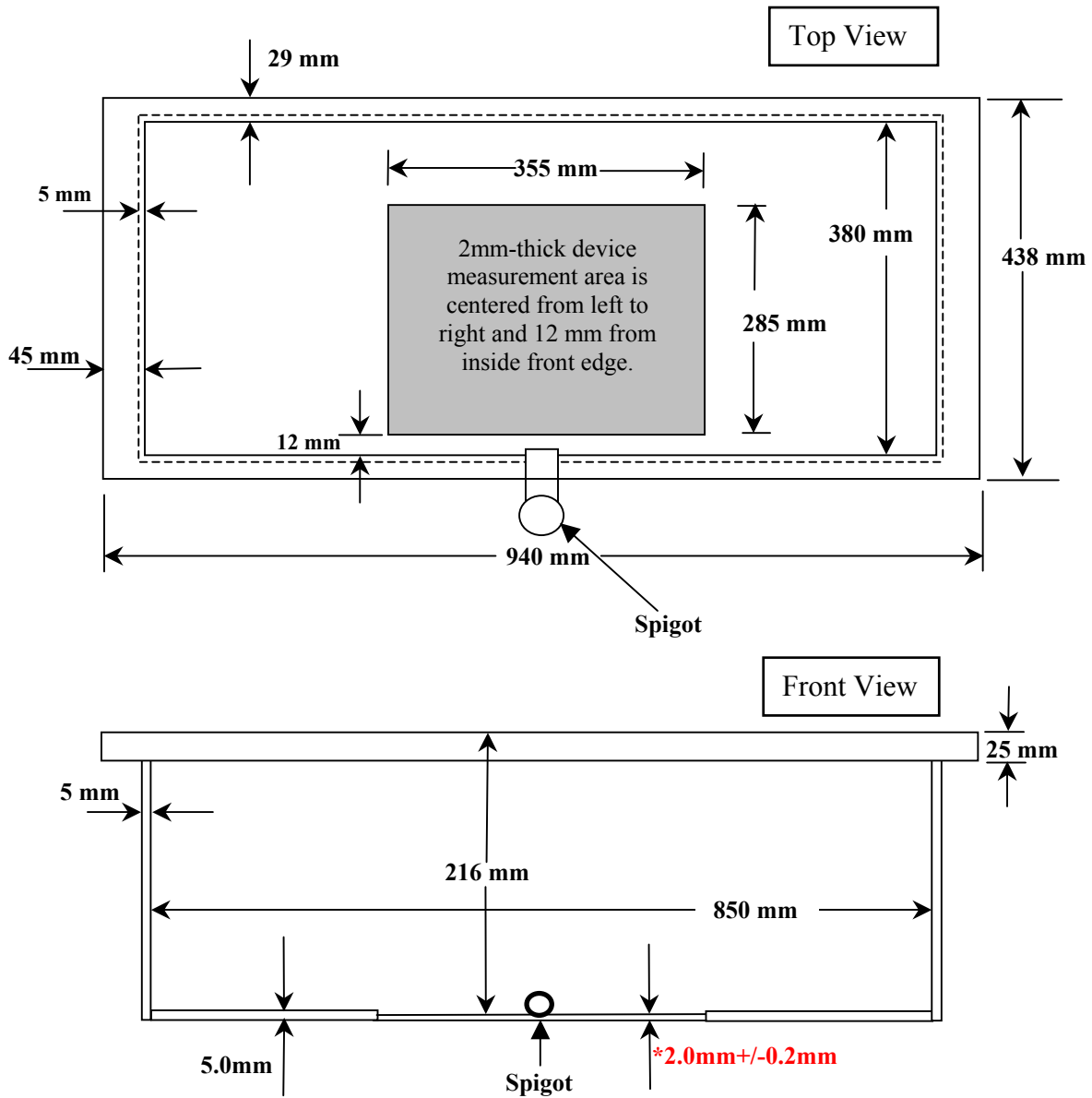
**Fiberglass Planar Phantom - Back View**



**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.**