



	Report Serial No.:	092110Q2G-T1047b-E24M	Report Rev. No.:	Revision 1.0	
	Evaluation Dates:	Sept. 24 - Dec. 03, 2010	Report Issue Date:	December 19, 2010	
	FCC Rule Part(s):	47 CFR §2, §22H, §24E	IC Standard(s):	RSS-132; RSS-133	

## DECLARATION OF COMPLIANCE – FCC PART 22H & 24E – IC RSS-132 Issue 2 & RSS-133 Issue 5

<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>Test Site Registration No.</b>	<b>IC</b>	3874A-1		
<b>Applicant Information</b>	<b>Name</b>	<b>XPLORE TECHNOLOGIES CORPORATION</b>		
	<b>Address</b>	14000 Summit Drive, Suite 900, Austin, Texas, 78728 USA		
<b>Standard(s)/Procedure(s)</b>	<b>FCC</b>	47 CFR Part 2	47 CFR Part 22 Subpart H	47 CFR Part 24 Subpart E
	<b>IC</b>	RSS-Gen Issue 3	RSS-132 Issue 2	Rss-133 Issue 5
	<b>ANSI</b>	TIA/EIA-603-C-2004		
<b>Application Type(s)</b>	<b>FCC/IC</b>	Class II Permissive Change		
<b>Description of Change(s)</b>	<b>FCC/IC</b>	Class II Permissive Change - Add Xplore IX104C5 Host Tablet PC & Non Pump-Up Antenna (LMA)		
<b>Device Identifier(s)</b>	<b>FCC ID:</b>	Q2GGOBI2K-XPL		
	<b>IC:</b>	4596A-GOBI2KXPL		
<b>Test Sample Receipt Date</b>	September 21, 2010			
<b>Date(s) of Measurements</b>	September 24 - December 03, 2010			
<b>Device Under Test (DUT)</b>	GPRS/EDGE/CDMA/WCDMA/HSPA Module			
<b>Device Under Test Model</b>	GOBI2000			
<b>Device Under Test Serial No.</b>	IMEI 358504020003108			
<b>DUT Host PC Configuration</b>	Rugged Tablet PC			
<b>DUT Host PC Model</b>	iX104C5			
<b>DUT Host PC Serial No.</b>	XPL 01			
<b>Internal Transmitter Frequency Range(s)</b>	<b>850</b>	824.2-848.8 MHz (GPRS/EDGE)	<b>1900</b>	1850.2-1909.8 MHz (GPRS/EDGE)
	<b>850</b>	826.4-846.6 MHz (WCDMA/HSPA)	<b>1900</b>	1852.4-1907.5 MHz (WCDMA/HSPA)
	<b>850</b>	824.70-848.31 MHz (CDMA/EV-DO)	<b>1900</b>	1851.25-1908.75 MHz (CDMA/EV-DO)
<b>Max. Duty Cycle(s) Tested</b>	GPRS: 25% (2 Uplink Slots - Class 10)		WCDMA: 100%	CDMA: 100%
<b>Antenna Type(s) Tested</b>	SkyCross "Non Pump-Up" Antenna		P/N: 25.90A0P.001	Gain Spec: -5 dBi
<b>Power Source(s) Tested</b>	Lithium-ion Battery		7.4V, 1000mAh	Model: 909T2021F
<b>Co-located WLAN</b>	802.11a/b/g/n WLAN Mini-PCI Card		Model: 622ANHMW	Does not co-transmit with WWAN
	FCC ID : Q2GI6200-XPL		IC: 4596A-I6200XPL	Manufacturer: Intel Corporation
<b>Co-located Bluetooth</b>	Class 2 Bluetooth		Model: BCM92070MD_REF	Supports co-transmit with WWAN
	FCC ID: QDS-BRCM1043		IC: 4324A-BRCM1043	Manuf.: Broadcom Corporation
This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2, 22H, 24E; Industry Canada RSS-Gen Issue 3, RSS-132 Issue 2, RSS-133 Issue 5 and ANSI TIA/EIA-603-C-2004.				
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>

<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 Non Pump-Up Antenna					
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TEST SUMMARY					
Appendix	Test Description	Procedure Reference	FCC Limit Reference	IC Limit Reference	Result
A	Effective Radiated Power	ANSI/TIA/EIA-603-C	§22.913	IC RSS-132 Issue 2	Pass
	Effective Isotropic Radiated Power	ANSI/TIA/EIA-603-C	§24.232(c)	IC RSS-133 Issue 5	Pass
B	Radiated Transmitter Spurious Emissions	ANSI/TIA/EIA-603-C	§22.917 (a)	IC RSS-132 Issue 2	Pass
			§24.238 (a)	IC RSS-133 Issue 5	

### REVISION LOG

Revision	Description	Implemented By	Implementation Date
1.0	Initial Release	Jonathan Hughes	December 19, 2010

Test Report Prepared By	Preparation Date	QA Review By	Review Date
Sean Johnston	December 17, 2010	Jonathan Hughes	December 17, 2010

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## 1.0 SCOPE

This report outlines the measurements made and results collected during electromagnetic emissions testing of the Xplore Technologies Corporation Model: iX104C5 Rugged Tablet PC incorporating the GOBI2000 WWAN Mini-PCI Express Card FCC ID: Q2GGGOBI2K-XPL with Non Pump-Up Antenna. The measurement results were applied against the applicable EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication's Commission Code of Federal Regulations Title 47 Parts 2, 22 Subpart H, 24 Subpart E and Industry Canada Radio Standards Specification RSS-Gen Issue 3, RSS-132 Issue 2 and RSS-133 Issue 5.

## 2.0 REFERENCES

### 2.1 Normative References


ANSI/ISO 17025:2005	General Requirements for competence of testing and calibration laboratories
IEEE/ANSI C63.4:2003	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
IEEE/ANSI C95.1:2005	American National Standard Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields
ANSI/TIA/EIA-603-C:2004	Land Mobile FM or PM Communication Equipment Measurement and Performance Standards
CFR Title 47 Part 2:2009	Code of Federal Regulations Title 47: Telecommunication Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
CFR Title 47 Part 22:2009	Code of Federal Regulations Title 47: Telecommunication Part 22: Public Mobile Services
CFR Title 47 Part 24:2009	Code of Federal Regulations Title 47: Telecommunication Part 24: Personal Communication Services
IC Spectrum Management & Telecommunications Policy	Radio Standards Specification RSS-132 Issue 2 - 800 MHz Cellular Telephones Employing New Technologies RSS-133 Issue 5 - 2 GHz Personal Communication Services RSS-Gen Issue 3 - General Requirements and Information for the Certification of Radiocommunication Equipment


Applicant:	Xplore Technologies Corp.	FCC ID:	Q2GGGOBI2K-XPL	IC:	4596A-GOBI2KXPL	
DUT Type:	Mini-PCI Express WWAN Card Model: GOBI2000 in iX104C5 Tablet PC with Non Pump-Up Antenna					
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### 3.0 TERMS AND DEFINITIONS

AV	Average
CDMA	Code Division Multiple Access
CFR	Code of Federal Regulations
dB	decibel
dBm	dB referenced to 1 mW
dBuV	dB referenced to 1 uV
DUT	Device Under Test
dBc	dB down from carrier
EBW	Emission Bandwidth
EDGE	Enhanced Data Rates for GSM Evolution
EIRP	Effective Isotropic Radiated Power
EMC	Electromagnetic Compatibility
ERP	Effective Radiated Power
EV-DO	Evolution - Data Optimized
FCC	Federal Communications Commission
FHSS	Frequency Hopping Spread Spectrum
GSM	Global Systems for Mobile Communication
GMRS	General Mobile Radio Service
GPRS	General Packet Radio Service
HP	Hewlett Packard
HPF	High Pass Filter
Hpol	Horizontal Polarization
HSDPA	High Speed Downlink Packet Access
HSUPA	High Speed Uplink Packet Access
Hz	Hertz
IC	Industry Canada
kHz	kilohertz
LNA	Low Noise Amplifier
m	meter
MHz	Megahertz
Mbps	megabits per second
na	not applicable
n/a	not available
PK	Peak
PPSD	Peak Power Spectral Density
QP	Quasi-peak
RBW	Resolution Bandwidth
R&S	Rohde & Schwarz
RSS	Radio Standard Specification
SA	Spectrum Analyzer
UMTS	Universal Mobile Telecommunications System
VBW	Video Bandwidth
Vpol	Vertical Polarization
WCDMA	Wide CDMA

<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 Non Pump-Up Antenna</b>					
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#### 4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 21-364 Lougheed Road, Kelowna, British Columbia, Canada V1X 7R8. The radiated emissions site conforms to the requirements set forth in ANSI C63.4 and is filed and listed with the FCC as an accredited test facility and Industry Canada under File Number IC 3874A-1.

#### 5.0 GENERAL INFORMATION

##### 5.1 Applicant Information


<b>Company Name</b>	<b>XPLORE TECHNOLOGIES CORPORATION</b>
<b>Address</b>	14000 Summit Drive, Suite 900,
	Austin, Texas 78728
	United States

##### 5.2 DUT Description

<b>Device Type</b>	Rugged Tablet PC	<b>Model</b>	iX104C5	<b>Serial No.</b>	XPL 01
<b>Transmitter Tested</b>	WWAN	<b>Model</b>	GOBI2000	<b>FCC ID:</b>	Q2GGOBI2K-XPL
<b>Power Source Tested</b>	Lithium-ion Battery		7.4V, 1000mAh		Model: 909T2021F
<b>Antenna Tested</b>	SkyCross "Non Pump-Up" Antenna		P/N: 25.90A0P.001		Gain Spec.: -5 dBi

##### 5.3 Rule Part(s) & Classification(s)

<b>Rule Part(s) Applied</b>	<b>FCC</b>	47 CFR §2; §22(H), §24(E)			
	<b>IC</b>	RSS-Gen Issue 3	RSS-132 Issue 2	RSS-133 Issue 5	

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## 5.4 Mode(s) of Operation Tested

### 5.4.1 Dual-Band CDMA/EV-DO

Measurements were made with the DUT set to the low, mid and high channel in each band and in 3 orthogonal DUT positions.

#### 5.4.1.1 Cellular CDMA/EV-DO


<b>Transmitter Frequency Range</b>	824.70 - 848.31 MHz		
<b>Transmitter Test Channels</b>	Ch. 1013 (824.70 MHz) - Low	Ch. 384 (836.52 MHz) - Mid	Ch. 777 (848.31 MHz) - High
<b>Software Power Gain Settings</b>	Set by communications test set for "all ups" RC3 (SO55)		



#### 5.4.1.2 Cellular WCDMA/HSDPA/HSUPA

<b>Transmitter Frequency Range</b>	826.4 - 846.6 MHz		
<b>Transmitter Test Channels</b>	Ch. 4132 (826.40 MHz) - Low	Ch. 4182 (836.4 MHz) - Mid	Ch. 4233 (846.6 MHz) - High
<b>Software Power Gain Settings</b>	Set by communications test set for "all ups" Set Test mode 1 loop back with a 12.2kbps Reference measurement channel (RMC) Bc = 8, Bd =15 (3GPP default) Set and send continuously up power control commands, TPC = ALL 1's		

#### 5.4.1.3 Cellular GSM/GPRS/EDGE

<b>Transmitter Frequency Range</b>	824.2 - 848.8 MHz		
<b>Transmitter Test Channels</b>	Ch. 128 (824.2 MHz) - Low	Ch. 190 (836.6 MHz) - Mid	Ch. 251 (848.8 MHz) - High
<b>Software Power Gain Settings</b>	Set by communications test set for GPRS power class 5		

<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 Non Pump-Up Antenna					
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#### 5.4.1.4 PCS CDMA/EV-DO

<b>Transmitter Frequency Range</b>	1851.25 - 1908.75 MHz		
<b>Transmitter Test Channels</b>	Ch. 25 (1851.25 MHz) - Low	Ch. 600 (1880.00 MHz) - Mid	Ch. 1175 (1908.75 MHz) - High
<b>Software Power Gain Settings</b>	Set by communications test set for "all ups" RC3 (SO55)		

#### 5.4.1.5 PCS WCDMA/HSDPA/HSUPA

<b>Transmitter Frequency Range</b>	1852.4 - 1907.6 MHz		
<b>Transmitter Test Channels</b>	Ch. 9262 (1852.4 MHz) - Low	Ch. 9400 (1880.0 MHz) - Mid	Ch. 9538 (1907.6 MHz) - High
<b>Software Power Gain Settings</b>	Set by communications test set for "all ups" Set Test mode 1 loop back with a 12.2kbps Reference measurement channel (RMC) Bc = 8, Bd =15 (3GPP default) Set and send continuously up power control commands, TPC = ALL 1's		

#### 5.4.1.6 PCS GSM/GPRS/EDGE

<b>Transmitter Frequency Range</b>	1850.2 - 1909.8 MHz		
<b>Transmitter Test Channels</b>	Ch. 512 (1850.2 MHz) - Low	Ch. 661 (1880.0 MHz) - Mid	Ch. 810 (1909.8 MHz) - High
<b>Software Power Gain Settings</b>	Set by communications test set for GPRS power class 0		


### 5.5 Configuration Description

#### 5.5.1 Configuration Justification

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

### 6.0 PASS/FAIL CRITERIA

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

<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 Non Pump-Up Antenna					
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### Appendix A - Effective Radiated Power / Effective Isotropic Radiated Power Measurement

#### A.1 REFERENCES

<b>Normative Reference Standard</b>	FCC CFR 47 §22.913 (a)(2), FCC CFR 47 §24.232 (c)
<b>Procedure Reference</b>	ANSI/TIA/EIA-603-C

#### A.2 LIMITS

##### A.2.1 FCC CFR 47

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

#### A.3 ENVIRONMENTAL CONDITIONS

<b>Temperature</b>	25 +/- 5 °C
<b>Humidity</b>	40 +/- 10 %
<b>Barometric Pressure</b>	101 +/- 3 kPa

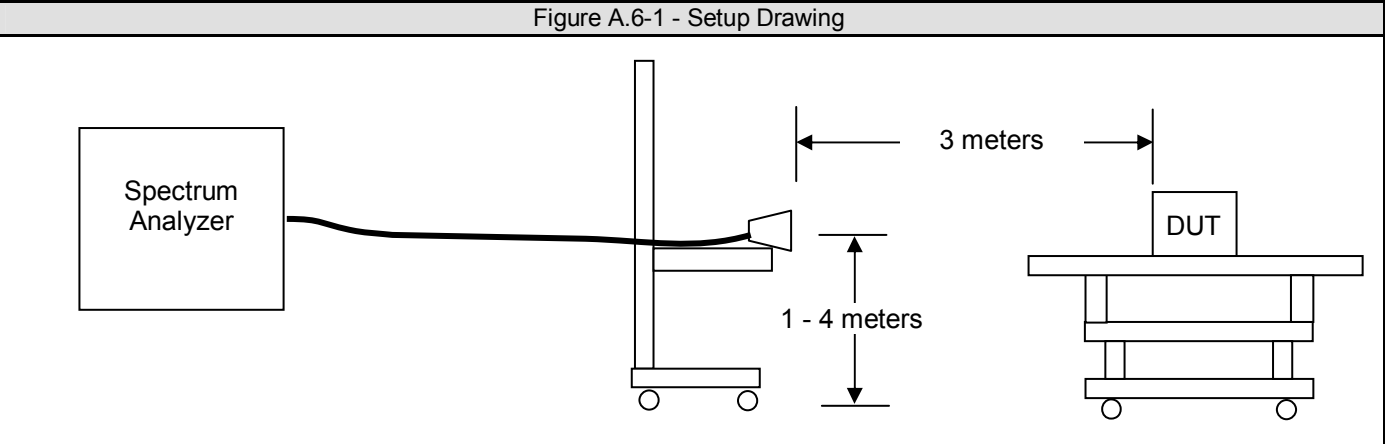
#### A.4 EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00072	EMCO	2075	Mini-mast	n/a
00073	EMCO	2080	Turn Table	n/a
00071	EMCO	2090	Multi-Device Controller	n/a
00015	HP	E4408B	Spectrum Analyzer	03May12
00050	Chase	CBL-6111A	Bilog Antenna	03May13
00034	ETS	3115	Double Ridged Guide Horn	29Apr13
00035	ETS	3115	Double Ridged Guide Horn	29Apr13
00051	HP	8566B	Spectrum Analyzer RF Section	03May12
00049	HP	85650A	Quasi-peak Adapter	06May12
00047	HP	85685A	RF Preselector	05May12
00006	R & S	SMR 20	Signal Generator (10MHz-40GHz)	30Apr12
00114	Amplifier Research	DC7154	Directional Coupler (0.8-4.2 GHz)	n/a
00078	Pasternack	PE2214-20	Directional Coupler (1-18 GHz)	n/a
00106	Amplifier Research	5S1G4	Power Amplifier (5W, 800MHz-4.2GHz)	n/a
00041	Amplifier Research	10W1000C	Power Amplifier (0.5 - 1 GHz)	n/a
00007	Gigatronics	8652A	Power Meter	04May12
00014	Gigatronics	80701A	Power Sensor	04May12
80012	Agilent	8960A	Radio Communications Test Set	24Sep11

### A.5 MEASUREMENT EQUIPMENT SETUP


<b>MEASUREMENT EQUIPMENT CONNECTIONS</b>	For the field strength measurements, the measurement equipment was connected as shown in B.6. A number of antennas were used to cover the applicable frequency range tested. The ranges in which each antenna was used are as follows. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission being investigated.			
	Frequency Range	RX Antenna	TX Antenna	
	30 MHz – 0.8GHz	Bilog	Dipole	
	0.8 GHz - 18 GHz	ETS 3115 Horn	ETS 3115 Horn	
<b>MEASUREMENT EQUIPMENT SETTINGS</b>	For measuring the radiated field strength of the fundamental, the spectrum analyzer was set to the following settings:			
	Mode	RBW	VBW	Detector
		MHz	MHz	
	Cellular	1	3	Peak
	PCS	1	3	Peak

### A.6 SETUP DRAWING



### A.7 DUT OPERATING DESCRIPTION

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

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### A.8 SETUP PHOTOGRAPHS

Photograph A.8-1 – DUT Position A



Photograph A.8-2 – DUT Position B



Photograph A.8-3 – DUT Position C



A.1 TEST RESULTS									
A.1.1 Carrier Levels									
A.1.1.1 Cellular Band Carrier Levels – CDMA 1xRTT									
Frequency (MHz)	Measured Level (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	Pol. (V/H)	ERP		Limit	Margin	Pass/Fail
					Watts	dBm			
824.70	78.4	6.8	1.55	V	0.01	8.35	38	29.65	Pass
824.70	82.19	11.3	1.45	H	0.02	12.75	38	25.25	Pass
836.52	80.2	10.1	1.95	V	0.02	12.05	38	25.95	Pass
836.52	84.2	13.7	1.65	H	0.03	15.35	38	22.65	Pass
848.31	80.3	9.8	2.35	V	0.02	12.15	38	25.85	Pass
848.31	84.5	13.8	2.15	H	0.04	15.95	38	22.05	Pass
A.1.1.2 Cellular Band Carrier Levels – WCDMA									
Frequency (MHz)	Measured Level (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	Polarization (V/H)	ERP		Limit	Margin	Pass/Fail
					Watts	dBm			
826.40	76.60	5.00	1.55	V	0.00	6.55	38	31.45	Pass
826.40	79.90	8.50	1.45	H	0.01	9.95	38	28.05	Pass
836.40	79.50	7.90	1.95	V	0.01	9.85	38	28.15	Pass
836.40	82.60	11.70	1.65	H	0.02	13.35	38	24.65	Pass
846.60	79.60	8.50	2.35	V	0.01	10.85	38	27.15	Pass
846.60	83.60	12.40	2.15	H	0.03	14.55	38	23.45	Pass
A.1.1.3 Cellular Band Carrier Levels – GPRS									
Frequency (MHz)	Measured Level (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	Polarization (V/H)	ERP		Limit	Margin	Pass/Fail
					Watts	dBm			
824.20	84.3	13.50	1.55	V	0.03	15.05	38	22.95	Pass
824.20	87.1	16.80	1.45	H	0.07	18.25	38	19.75	Pass
836.60	85.4	14.70	1.95	V	0.05	16.65	38	21.35	Pass
836.60	90.8	19.60	1.65	H	0.13	21.25	38	16.75	Pass
848.80	87.8	16.80	2.35	V	0.08	19.15	38	18.85	Pass
848.80	92.3	20.50	2.15	H	0.18	22.65	38	15.35	Pass

Notes:

All 3 orthogonal DUT positions investigated. Worst case DUT Position A summarized in table.


Formulae:

ERP Level = Substitute Level + Antenna Gain

Margin (dB) = Limit – Level

A.1 TEST RESULTS CONT...									
A.1.1 Carrier Levels									
A.1.1.1 PCS Band Carrier Levels – CDMA 1xRTT									
Frequency (MHz)	Measured Level (dBuV)	Substitute Level	Antenna Gain (dBi)	Pol. (V/H)	EIRP		Limit	Margin	Pass/Fail
					Watts	dBm			
1851.25	87.8	13	8.80	V	0.15	21.80	33	11.20	Pass
1851.25	84.8	9.8	8.60	H	0.07	18.40	33	14.60	Pass
1880.00	87.3	12.7	8.85	V	0.14	21.55	33	11.45	Pass
1880.00	85.8	10.1	8.55	H	0.07	18.65	33	14.35	Pass
1908.75	85.4	10.6	8.90	V	0.09	19.50	33	13.50	Pass
1908.75	82.1	7.2	8.50	H	0.04	15.70	33	17.30	Pass
A.1.1.2 PCS Band Carrier Levels – WCDMA									
Frequency (MHz)	Measured Level (dBuV)	Substitute Level	Antenna Gain (dBi)	Pol. (V/H)	EIRP		Limit	Margin	Pass/Fail
					Watts	dBm			
1852.40	87.40	12.70	8.80	V	0.14	21.50	33	11.50	Pass
1852.40	84.10	9.90	8.60	H	0.07	18.50	33	14.50	Pass
1880.00	87.40	12.60	8.85	V	0.14	21.45	33	11.55	Pass
1880.00	84.00	9.90	8.55	H	0.07	18.45	33	14.55	Pass
1907.60	84.21	9.60	8.90	V	0.07	18.50	33	14.50	Pass
1907.60	81.70	6.50	8.50	H	0.03	15.00	33	18.00	Pass
A.1.1.3 PCS Band Carrier Levels – GPRS									
Frequency (MHz)	Measured Level (dBuV)	Substitute Level	Antenna Gain (dBi)	Pol. (V/H)	EIRP		Limit	Margin	Pass/Fail
					Watts	dBm			
1850.20	90.3	14.9	8.80	V	0.23	23.70	33	9.30	Pass
1850.20	87.5	12.6	8.60	H	0.13	21.20	33	11.80	Pass
1880.00	90.2	14.7	8.85	V	0.23	23.55	33	9.45	Pass
1880.00	87.5	12.8	8.55	H	0.14	21.35	33	11.65	Pass
1909.80	87.9	12.9	8.90	V	0.15	21.80	33	11.20	Pass
1909.80	85.3	10.6	8.50	H	0.08	19.10	33	13.90	Pass

Notes:  
 All 3 orthogonal DUT positions investigated. Worst case DUT Position A summarized in table.  
 Formulae:  
 ERP Level = Substitute Level + Antenna Gain  
 Margin (dB) = Limit – Level

	Report Serial No.:	092110Q2G-T1047b-E24M	Report Rev. No.:	Revision 1.0	 Test Lab Certificate No. 2470.01
	Evaluation Dates:	Sept. 24 - Dec. 03 ,2010	Report Issue Date:	December 19, 2010	
	FCC Rule Part(s):	47 CFR §2, §22H, §24E	IC Standard(s):	RSS-132; RSS-133	

### A.9 PASS/FAIL

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

### A.10 SIGN-OFF


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




Sean Johnston  
Lab Manager  
Celltech Labs Inc.

December 3 , 2010

Date

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 Non Pump-Up Antenna					
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	Evaluation Dates:	Sept. 24 - Dec. 03 ,2010	Report Issue Date:	December 19, 2010	
	FCC Rule Part(s):	47 CFR §2, §22H, §24E	IC Standard(s):	RSS-132; RSS-133	

## Appendix B - Radiated Spurious Emissions Measurement

### B.1 REFERENCES

<b>Normative Reference Standard</b>	FCC CFR 47 §22.917(a), FCC CFR 47 §24.238(a)
<b>Procedure Reference</b>	ANSI/TIA/EIA-603-C

### B.2 LIMITS

#### B.2.1 FCC CFR 47

FCC CFR 47 §22.917 & §24.238	(a) <i>Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.</i>
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### B.3 ENVIRONMENTAL CONDITIONS

<b>Temperature</b>	25 +/- 5 °C
<b>Humidity</b>	40 +/- 10 %
<b>Barometric Pressure</b>	101 +/- 3 kPa

### B.4 EQUIPMENT LIST

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00072	EMCO	2075	Mini-mast	n/a
00073	EMCO	2080	Turn Table	n/a
00071	EMCO	2090	Multi-Device Controller	n/a
00015	HP	E4408B	Spectrum Analyzer	03May12
00050	Chase	CBL-6111A	Bilog Antenna	03May13
00034	ETS	3115	Double Ridged Guide Horn	29Apr13
00035	ETS	3115	Double Ridged Guide Horn	29Apr13
00051	HP	8566B	Spectrum Analyzer RF Section	03May12
00049	HP	85650A	Quasi-peak Adapter	06May12
00047	HP	85685A	RF Preselector	05May12
00048	Gore	65474	Microwave Cable	n/a
00115	Miteq	J54-00102600-35-5A	LNA	n/a*
00006	R & S	SMR 20	Signal Generator (10MHz-40GHz)	30Apr12
00114	Amplifier Research	DC7154	Directional Coupler (0.8-4.2 GHz)	n/a
00078	Pasternack	PE2214-20	Directional Coupler (1-18 GHz)	n/a
00106	Amplifier Research	5S1G4	Power Amplifier (5W, 800MHz-4.2GHz)	n/a
00041	Amplifier Research	10W1000C	Power Amplifier (0.5 - 1 GHz)	n/a
00043	Microwave Circuits	H02G18G1	High Pass Filter	n/a*
00044	Microwave Circuits	H1G318G1	High Pass Filter	n/a*
00007	Gigatronics	8652A	Power Meter	04May12
00014	Gigatronics	80701A	Power Sensor	04May12
80012	Agilent	8960A	Radio Communications Test Set	24Sep11

\* verified before use

<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 Non Pump-Up Antenna					
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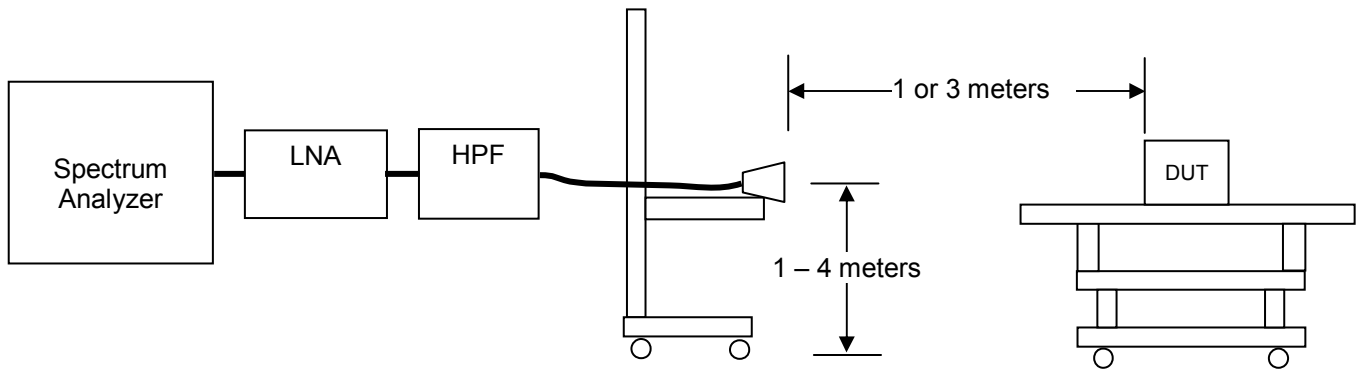


### B.5 MEASUREMENT EQUIPMENT SETUP

<b>MEASUREMENT EQUIPMENT CONNECTIONS</b>	For the field strength measurements, the measurement equipment was connected as shown in C.6. A number of antennas were used to cover the applicable frequency range tested. The ranges in which each antenna was used are shown below. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission being investigated.			
	Frequency Range		RX Antenna	TX Antenna
	0.8 GHz - 18 GHz		ETS 3115 Horn	ETS 3115 Horn
<b>MEASUREMENT EQUIPMENT SETTINGS</b>	For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:			
	Mode	RBW	VBW	Detector
		kHz	kHz	
	Cellular < 1 GHz	100	300	Peak*
	Cellular > 1 GHz	1000	3000	Peak*
	PCS	1000	3000	Peak*

### B.6 SETUP DRAWING

Figure B.6-1 - Setup Drawing



### B.7 DUT OPERATING DESCRIPTION

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



## B.8 TEST RESULTS

### B.8.1 Spurious Emissions

#### B.8.1.1 Cellular Band Spurious Emissions – CDMA 1xRTT

##### Low Channel: 824.70 MHz

Measured output power: 12.75 dBm = 0.02 W, Limit: 43+10Log(W)= 26dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 1013</b>								
1.649	NF	NF	n/a				Pass	NF
2.474	NF	NF	n/a				Pass	NF
3.299	NF	NF	n/a				Pass	NF

##### Mid Channel: 836.52 MHz

Measured output power: 15.35 dBm = 0.03 W, Limit: 43+10Log(W)= 27.8dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 384</b>								
1.673	NF	58.5	-53.5	9	-44.5	59.9	Pass	*
2.509	NF	NF	n/a				Pass	NF
3.346	NF	NF	n/a				Pass	NF

##### High Channel: 848.31 MHz

Measured output power: 15.95 dBm = 0.04 W, Limit: 43+10Log(W)= 29.0dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 777</b>								
1.697	NF	NF	n/a				Pass	NF
2.545	NF	NF	n/a				Pass	NF
3.393	NF	NF	n/a				Pass	NF

- \*Emission detected
- NF (Noise Floor)

The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10<sup>th</sup> harmonic of the carrier. All other emissions were at the noise floor and not reported.

## B.9 TEST RESULTS

### B.9.1 Spurious Emissions

#### B.9.1.1 Cellular Band Spurious Emissions – WCDMA

##### Low Channel: 826.4 MHz

Measured output power: 9.95 dBm = 0.01 W, Limit: 43+10Log(W)= 23dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 4132</b>								
1.653	NF	NF	n/a				Pass	NF
2.479	NF	NF	n/a				Pass	NF
3.305	NF	NF	n/a				Pass	NF

##### Mid Channel: 836.4 MHz

Measured output power: 13.35 dBm = 0.02 W, Limit: 43+10Log(W)= 26.0Bc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 4182</b>								
1.673	NF	NF	n/a				Pass	NF
2.509	NF	NF	n/a				Pass	NF
3.346	NF	NF	n/a				Pass	NF

##### High Channel: 846.6 MHz

Measured output power: 14.55 dBm = 0.03 W, Limit: 43+10Log(W)=27.8dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 4233</b>								
1.693	NF	NF	n/a				Pass	NF
2.540	NF	NF	n/a				Pass	NF
3.386	NF	NF	n/a				Pass	NF

- \*Emission detected
- NF (Noise Floor)

The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10<sup>th</sup> harmonic of the carrier. All other emissions were at the noise floor and not reported.

## B.10 TEST RESULTS

### B.10.1 Spurious Emissions

#### B.10.1.1 Cellular Band Spurious Emissions – GPRS

##### Low Channel: 824.2 MHz

Measured output power: 18.25 dBm = 0.07 W, Limit: 43+10Log(W)= 31.5dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH. 128</b>								
1.648	NF	NF	n/a	9			Pass	NF
2.472	NF	NF	n/a	9.9			Pass	NF
3.296	NF	NF	n/a				Pass	NF
4.121	NF	NF	n/a				Pass	NF

##### Mid Channel: 836.6 MHz

Measured output power: 21.25 dBm = 0.13 W, Limit: 43+10Log(W)= 34.1dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH. 190</b>								
1.673	55.6	64.5	-44.0	9	-35	56.3	Pass	*
2.509	61.0	62.4	-46.1	9.9	-36.2	57.5	Pass	*
3.346	NF	NF	n/a				Pass	NF
4.182	NF	NF	n/a				Pass	NF

##### High Channel: 848.8 MHz

Measured output power: 22.65 dBm = 0.18 W, Limit: 43+10Log(W)= 35.6dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH. 251</b>								
1.697	54.7	64.5	-44.1	9	-35.1	57.8	Pass	*
2.545	60.9	62.1	-46.5	9.9	-36.6	59.25	Pass	*
3.393	NF	NF	n/a				Pass	NF
4.242	NF	NF	n/a				Pass	NF

- \*Emission detected
- NF (Noise Floor)

The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10<sup>th</sup> harmonic of the carrier. All other emissions were at the noise floor and not reported.

### B.10.1.2 PCS Band Spurious Emissions CDMA 1xRTT

#### Low Channel: 1851.25 MHz

Measured output power: 21.8 dBm = 0.15 W, Limit: 43+10Log(W)=34.8dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 25</b>								
3.703	NF	NF	n/a				Pass	NF
5.553	NF	NF	n/a				Pass	NF
7.405	NF	NF	n/a				Pass	NF

#### Mid Channel: 1880.00 MHz

Measured output power: 21.55 dBm = 0.14 W, Limit: 43+10Log(W)= 34.5dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 600</b>								
3.76	NF	NF	n/a				Pass	NF
5.64	NF	NF	n/a				Pass	NF
7.52	NF	NF	n/a				Pass	NF

#### High Channel: 1908.75 MHz

Measured output power: 19.5 dBm = 0.09 W, Limit: 43+10Log(W)= 32.5dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 1175</b>								
3.818	NF	NF	n/a				Pass	NF
5.726	NF	NF	n/a				Pass	NF
7.635	NF	NF	n/a				Pass	NF

- \*Emission detected
- NF (Noise Floor)

The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10<sup>th</sup> harmonic of the carrier. All other emissions were at the noise floor and not reported.

### B.10.1.3 PCS Band Spurious Emissions – WCDMA

#### Low Channel: 1852.4 MHz

Measured output power: 21.5 dBm = 0.14 W, Limit:  $43+10\log(W)= 34.5\text{dBc}$

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 9262</b>								
3.705	58.9	52.4	-56.5	9.8	-46.7	68.2	Pass	NF
5.557	NF	NF	n/a				Pass	NF
7.409	NF	NF	n/a				Pass	NF

#### Mid Channel: 1880.0 MHz

Measured output power: 21.45 dBm = 0.14 W, Limit:  $43+10\log(W)=34.5\text{ dBc}$

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	DBc	Pass/Fail	Notes
<b>CH 9400</b>								
3.760	60.3	55.3	-55.4	9.8	-45.6	67.1	Pass	NF
5.640	NF	NF	n/a				Pass	NF
7.520	NF	NF	n/a				Pass	NF

#### High Channel: 1907.6 MHz

Measured output power: 18.5 dBm = 0.07 W, Limit:  $43+10\log(W)= 31.5\text{dBc}$

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 9538</b>								
3.815	NF	NF	n/a				Pass	NF
5.723	NF	NF	n/a				Pass	NF
7.630	NF	NF	n/a				Pass	NF

- \*Emission detected
- NF (Noise Floor)

The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10<sup>th</sup> harmonic of the carrier. All other emissions were at the noise floor and not reported.

### B.10.1.4 PCS Band Spurious Emissions – GPRS

#### Low Channel: 1852.2 MHz

Measured output power: 23.7 dBm = 0.23 W, Limit: 43+10Log(W)= 36.6dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 512</b>								
3.700	NF	NF	n/a				Pass	NF
5.551	NF	NF	n/a				Pass	NF
7.401	NF	NF	n/a				Pass	NF

#### Mid Channel: 1880.0 MHz

Measured output power: 23.55 dBm = 0.23 W, Limit: 43+10Log(W)= 36.6dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 661</b>								
3.760	NF	NF	n/a				Pass	NF
5.640	NF	NF	n/a				Pass	NF
7.520	NF	NF	n/a				Pass	NF



#### High Channel: 1909.8 MHz

Measured output power: 21.8 dBm = 0.15 W, Limit: 43+10Log(W)= 34.8dBc

Frequency (GHz)	Measured Level V (dBuV)	Measured Level H (dBuV)	Substitute Level (dBm)	Antenna Gain (dBi)	EIRP (dBm)	dBc	Pass/Fail	Notes
<b>CH 810</b>								
3.819	NF	NF	n/a				Pass	NF
5.729	NF	NF	n/a				Pass	NF
7.639	NF	NF	n/a				Pass	NF

- \*Emission detected
- NF (Noise Floor)

The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10<sup>th</sup> harmonic of the carrier. All other emissions were at the noise floor and not reported.

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	Evaluation Dates:	Sept. 24 - Dec. 03 ,2010	Report Issue Date:	December 19, 2010	
	FCC Rule Part(s):	47 CFR §2, §22H, §24E	IC Standard(s):	RSS-132; RSS-133	

### B.11 PASS/FAIL

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

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

### B.12 SIGN-OFF


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




Sean Johnston  
Lab Manager  
Celltech Labs Inc.


December 3 , 2010

Date

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 Non Pump-Up Antenna					
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	Evaluation Dates:	Sept. 24 - Dec. 03 ,2010	Report Issue Date:	December 19, 2010	
	FCC Rule Part(s):	47 CFR §2, §22H, §24E	IC Standard(s):	RSS-132; RSS-133	

END OF DOCUMENT

<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 Non Pump-Up Antenna</b>					
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