

Partial FCC RF Test Report

APPLICANT : Franklin Technology

EQUIPMENT : 3G USB adapter

BRAND NAME : Franklin MODEL NAME : \$600C

FCC ID : XHG-S600C

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

Tx/Rx FREQUENCY RANGE : CDMA2000 BC0 : 824.70 ~ 848.31 MHz /

869.70 ~ 893.31 MHz

Report No.: FG131021-02

CDMA2000 BC1: 1851.25 ~ 1908.75 MHz/

1931.25 ~ 1988.75 MHz

MAX. ERP/EIRP POWER : CDMA2000 BC0 : 0.27 W

CDMA2000 BC1: 0.53 W

This is a partial report which is only valid combined with the integrated the 3G Module (Brand Name: Franklin / Model Name: M600C, FCC ID: XHG-M600C) Report.

The product was received on Mar. 10, 2011 and completely tested on Apr. 01, 2011. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Roy Wu / Manager

lac-MRA



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMAF	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Manufacturer	
	1.3	Feature of Equipment Under Test	5
	1.4	Testing Site	6
	1.5	Applied Standards	
	1.6	Ancillary Equipment List	6
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	7
	2.1	Test Mode	7
	2.2	Connection Diagram of Test System	
3	TEST	RESULT	9
	3.1	Effective Radiated Power and Effective Isotropic Radiated Power Measurement	9
	3.2	Field Strength of Spurious Radiation Measurement	12
4	LIST	OF MEASURING EQUIPMENT	22
5	UNC	ERTAINTY OF EVALUATION	23
ΑP		IX A. PHOTOGRAPHS OF EUT	
ΑP	PEND	IX B. SETUP PHOTOGRAPHS	

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 2 of 23 Report Issued Date : Apr. 12, 2011 Report Version : Rev. 01



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG131021-02	Rev. 01	Initial issue of report	Apr. 12, 2011

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 3 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



SUMMARY OF TEST RESULT

Report Section	FCC Rule IC Rule		Description	Limit	Result	Remark
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.2	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 9.00 dB at 3760 MHz

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 4 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



1 General Description

1.1 Applicant

Franklin Technology

906 JEI Platz, 459-11 Gasan-dong, Guncheon-gu, Seoul, Korea

1.2 Manufacturer

U-Media Communications, Inc.

9F, No. 1, Jin-shan 8th St., Hsinchu 300, Taiwan, R.O.C.

1.3 Feature of Equipment Under Test

Product Feature & Specification					
Equipment	3G USB adapter				
Brand Name	Franklin				
Model Name	S600C				
FCC ID	XHG-S600C				
Integrated Module	Brand Name : Franklin				
integrated Module	Model Name : M600C				
Tx Frequency	CDMA2000 BC0 : 824 MHz ~ 849 MHz				
TX Frequency	CDMA2000 BC1 : 1850 MHz ~1910 MHz				
By Fraguency	CDMA2000 BC0 : 869 MHz ~ 894 MHz				
Rx Frequency	CDMA2000 BC1 : 1930 MHz ~ 1990 MHz				
Maximum Output Power to Antenna	CDMA2000 BC0 : 24.15 dBm				
Maximum Output Power to Antenna	CDMA2000 BC1 : 24.15 dBm				
Maximum ERP/EIRP	CDMA2000 BC0 : 0.27 W (24.30 dBm)				
Maximum ERF/EIRF	CDMA2000 BC1: 0.53 W (27.22 dBm)				
Antenna Type	detachable SMA dipole antenna				
Type of Modulation	QPSK				
EUT Stage	Identical Prototype				

Report No.: FG131021-02

Remark:

- 1. For other wireless features of this EUT, the test report will be issued separately.
- This test report recorded only product characteristics and test results of PCS Licensed Transmitter (PCB).
- The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

 SPORTON INTERNATIONAL INC.
 Page Number
 : 5 of 23

 TEL: 886-3-327-3456
 Report Issued Date
 : Apr. 12, 2011

 FAX: 886-3-328-4978
 Report Version
 : Rev. 01

FCC ID: XHG-S600C

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Test Site Location	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.				
lest Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Test Site No.	Sporton Site No.	FCC/IC Registration No.			
Test Site No.	03CH05-HY	722060/4086B-1			

Report No.: FG131021-02

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

1.6 Ancillary Equipment List

Ite	n Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

 SPORTON INTERNATIONAL INC.
 Page Number
 : 6 of 23

 TEL: 886-3-327-3456
 Report Issued Date
 : Apr. 12, 2011

 FAX: 886-3-328-4978
 Report Version
 : Rev. 01

FCC ID: XHG-S600C



2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.

Frequency range investigated for radiated emission is as follows:

- 1. 30 MHz to 9000 MHz for CDMA2000 BC0.
- 30 MHz to 19000 MHz for CDMA2000 BC1.

Test Modes					
Band	Radiated TCs				
CDMA2000 BC0	■ 1xRTT Link Mode				
CDWAZ000 BC0	■ 1xEV-DO Rev. A Link Mode				
CDM 42000 DC4	■ 1xRTT Link Mode				
CDMA2000 BC1	■ 1xEV-DO Rev. A Link Mode				

Note:

- The maximum RF output power levels are 1xEV-DO Rev. A RETAP 12288K mode for CDMA2000 BC0 and 1xEV-DO Rev. A RETAP 2048K mode for CDMA2000 BC1 on QPSK Link; only these modes were used for all tests.
- 2. Only the radiated emission, ERP, and EIRP of the 3G module were performed in this report, and the conducted test cases can be referred to Franklin module report (FCC ID: XHG-M600C).

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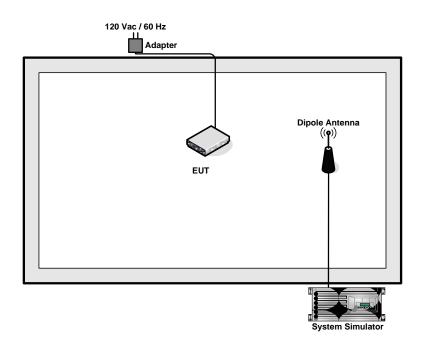
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 7 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



The conducted power table is as follows:

Conducted Power (*Unit: dBm)									
Band	CI	MA2000 B	C0	CDMA2000 BC1					
Channel	1013	384	777	25	600	1175			
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75			
1xRTT RC1+SO55	23.69	24.06	23.79	24.09	23.79	23.80			
1xRTT RC3+SO55	23.73	24.04	23.74	24.01	23.70	23.62			
1xRTT RC3+SO32	23.71	24.00	23.70	23.98	23.69	23.67			
1xEVDO RTAP 9.6K	23.80	23.93	23.60	24.08	23.61	23.67			
1xEVDO RTAP 38.4K	23.81	23.91	23.70	24.08	23.60	23.66			
1xEVDO RTAP 153.6K	23.90	24.05	23.69	24.05	23.71	23.71			
1xEVDO RETAP 128K	23.68	23.83	23.57	24.01	23.45	23.51			
1xEVDO RETAP 2048K	23.79	24.09	23.72	<mark>24.15</mark>	23.82	23.78			
1xEVDO RETAP 12288K	24.05	<mark>24.15</mark>	23.83	23.96	23.69	23.60			

2.2 Connection Diagram of Test System



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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 8 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01

3 Test Result

3.1 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.1.1 Description of the ERP/EIRP Measurement

ERP/EIRP is measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
- 2. The EUT was set at 1.2 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 4. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 5. Taking the record of maximum ERP/EIRP.
- 6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. The conducted power at the terminal of the dipole antenna is measured.
- 8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 9. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C

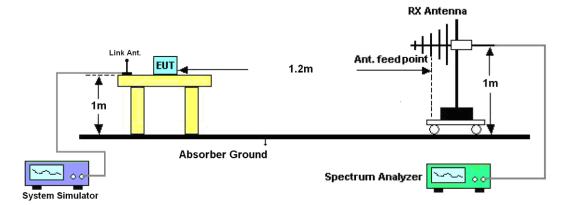
: Rev. 01

Report Version



Report No.: FG131021-02

3.1.4 Test Setup



TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 10 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



3.1.5 Test Result of ERP

CDMA2000 BC0 1XEV-DO Rev. A_RETAP 12288K Radiated Power ERP									
		Hori	zontal Polariza	ation					
Frequency Rt Rs Ps Gs ERP ERP									
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)			
824.70	-22.74	-48.12	0.00	-1.08	24.30	0.27			
836.52	-23.62	-48.28	0.00	-0.93	23.73	0.24			
848.31	-23.48	-48.35	0.00	-0.76	24.11	0.26			
		Ve	rtical Polarizati	ion					
Frequency	Rt	Rs	Ps	Gs	ERP	ERP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)			
824.70	-35.59	-47.97	0.00	-1.08	11.30	0.01			
836.52	-33.46	-48.01	0.00	-0.93	13.62	0.02			
848.31	-31.77	-48.05	0.00	-0.76	15.52	0.04			

3.1.6 Test Result of EIRP

CDMA2000 BC1 1XEV-DO Rev. A_RETAP 2048K Radiated Power EIRP									
		Hori	zontal Polariza	tion					
Frequency	Rt	Gs (JD:)	EIRP	EIRP					
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1851.25	-27.14	-51.88	0.00	1.96	26.70	0.47			
1880.00	-27.77	-52.99	0.00	2.00	27.22	0.53			
1908.75	-29.55	-54.28	0.00	1.98	26.71	0.47			
		Ve	rtical Polarizati	on					
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)			
1851.25	-36.41	-52.13	0.00	1.96	17.68	0.06			
1880.00	-36.45	-53.17	0.00	2.00	18.72	0.07			
1908.75	-36.26	-54.13	0.00	1.98	19.85	0.10			

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 11 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01

3.2 Field Strength of Spurious Radiation Measurement

3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 12 of 23 Report Issued Date : Apr. 12, 2011

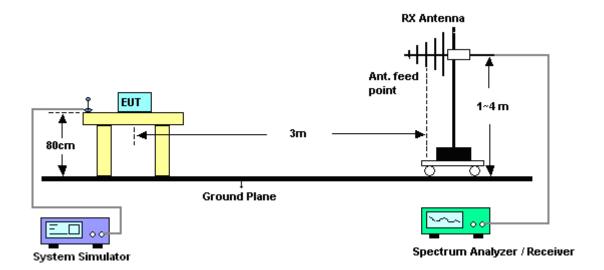
Report No.: FG131021-02

Report Version : Rev. 01



Report No. : FG131021-02

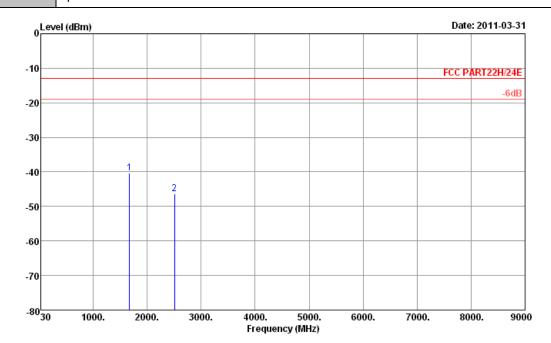
3.2.4 Test Setup



TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 13 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01

3.2.5 Test Result of Field Strength of Spurious Radiated

Band :	CDMA2000 BC0	Temperature :	23~24°C		
Test Mode :	1xRTT RC1+SO55	Relative Humidity :	49~52%		
Test Engineer :	Cona Huang	Polarization :	Horizontal		
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below lin					



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 HORIZONTAL

Project : FG 131021-02

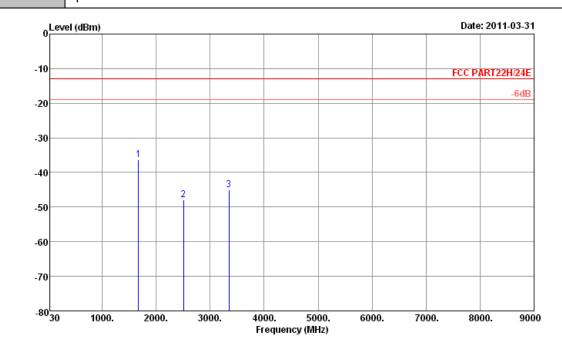
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-40.40	-13	-27.40	-46.35	-41.59	2.15	5.49	Н	Pass
2509	-46.41	-13	-33.41	-56.99	-48.3	2.38	6.41	Н	Pass

SPORTON INTERNATIOINAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 14 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01

FCC RF Test Report Report No.: FG131021-02

Band :	CDMA2000 BC0	Temperature :	23~24°C				
Test Mode :	1xRTT RC1+SO55	Relative Humidity :	49~52%				
Test Engineer :	Cona Huang	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 VERTICAL

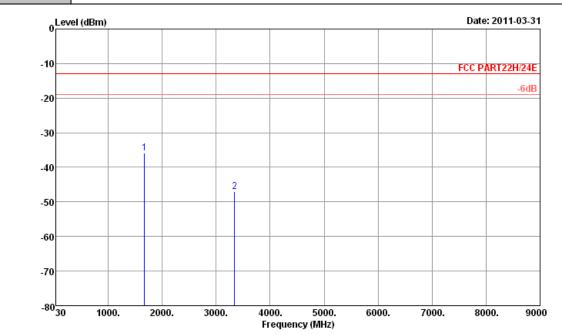
Project : FG 131021-02

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-36.42	-13	-23.42	-42.28	-37.61	2.15	5.49	V	Pass
2509	-48.00	-13	-35.00	-57.55	-49.89	2.38	6.41	V	Pass
3345	-45.06	-13	-32.06	-56.67	-48.39	2.86	8.34	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 15 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



Band :	CDMA2000 BC0	Temperature :	23~24°C					
Test Mode :	1XEV-DO Rev. A_RETAP 12288K	Relative Humidity :	49~52%					
Test Engineer :	Cona Huang	Polarization :	Horizontal					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 HORIZONTAL

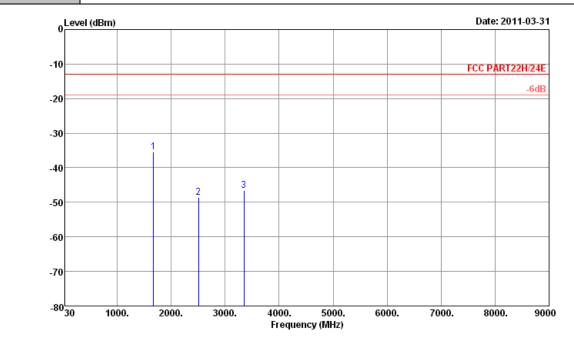
Project : FG 131021-02

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-35.96	-13	-22.96	-42.37	-37.15	2.15	5.49	Н	Pass
3345	-47.08	-13	-34.08	-59.14	-50.41	2.86	8.34	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 16 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01

FCC	RF	Test	Report	,
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Band :	CDMA2000 BC0	Temperature :	23~24°C					
Test Mode :	1XEV-DO Rev. A_RETAP 12288K	Relative Humidity :	49~52%					
Test Engineer :	Cona Huang	Polarization :	Vertical					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 VERTICAL

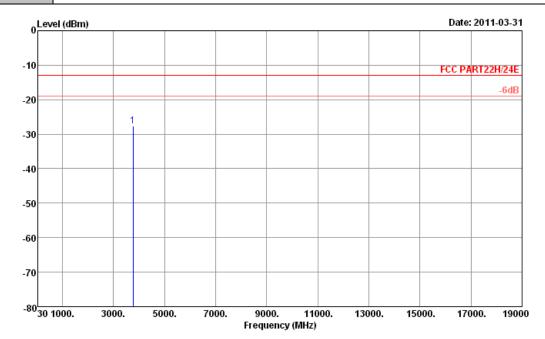
Project : FG 131021-02

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-35.51	-13	-22.51	-41.37	-36.7	2.15	5.49	V	Pass
2509	-48.62	-13	-35.62	-58.54	-50.51	2.38	6.41	V	Pass
3345	-46.63	-13	-33.63	-58.03	-49.96	2.86	8.34	V	Pass

SPORTON INTERNATIOINAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 17 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01

Band :	CDMA2000 BC1	Temperature :	23~24°C				
Test Mode :	1xRTT RC1+SO55	Relative Humidity :	49~52%				
Test Engineer :	Cona Huang	Polarization :	Horizontal				
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 HORIZONTAL

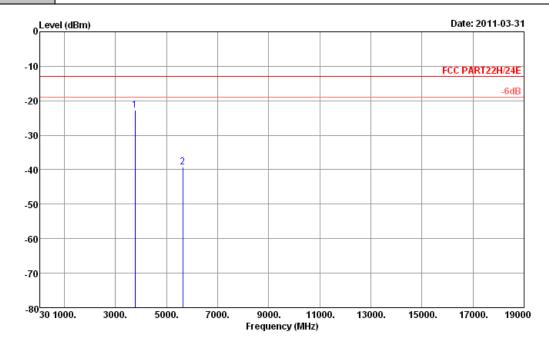
Project : FG 131021-02

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-27.55	-13	-14.55	-41.59	-33.68	2.9292	9.06	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 18 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



Band :	CDMA2000 BC1	Temperature :	23~24°C				
Test Mode :	1xRTT RC1+SO55	Relative Humidity :	49~52%				
Test Engineer :	Cona Huang	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 VERTICAL

Project : FG 131021-02

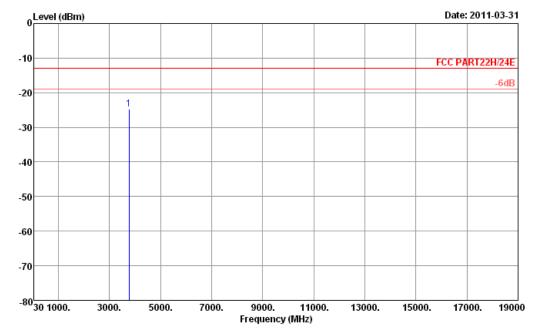
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-22.67	-13	-9.67	-36.36	-28.8	2.9292	9.06	V	Pass
5636	-39.29	-13	-26.29	-59.24	-46.21	3.9072	10.83	V	Pass

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 19 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



Band :	CDMA2000 BC1	Temperature :	23~24°C					
Test Mode :	1XEV-DO Rev. A_RETAP 2048K	Relative Humidity :	49~52%					
Test Engineer :	Cona Huang	Polarization :	Horizontal					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 HORIZONTAL

Project : FG 131021-02

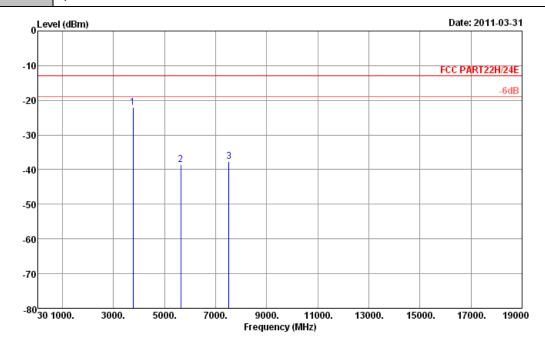
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-24.77	-13	-11.77	-38.46	-30.9	2.9292	9.06	Н	Pass

SPORTON INTERNATIOINAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 20 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



Band :	CDMA2000 BC1	Temperature :	23~24°C			
Test Mode :	1XEV-DO Rev. A_RETAP 2048K	Relative Humidity :	49~52%			
Test Engineer :	Cona Huang	Polarization :	Vertical			
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					



Site : 03CH05-HY

Condition : FCC PART22H/24E HF_EIRP_101221 VERTICAL

Project : FG 131021-02

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-22.00	-13	-9.00	-35.76	-28.13	2.9292	9.06	V	Pass
5636	-38.66	-13	-25.66	-58.27	-45.58	3.9072	10.83	V	Pass
7520	-37.70	-13	-24.70	-59.44	-45.72	4.5988	12.62	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 21 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
System Simulator	R&S	CMU200	117995	N/A	Jun. 08, 2009	Jun. 07, 2011	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP40	100055	9kHz~40GHz	Jun. 11, 2010	Jun. 10, 2011	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 13, 2010	Sep. 12, 2011	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0846202	N/A	Sep. 14, 2010	Sep. 13, 2011	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D35P	TBN-930701	N/A	Jul. 30,2010	Jul. 29, 2011	Conducted (TH02-HY)
Spectrum Analyzer	R&S	FSP30	101352	9KHz-40GHz	Nov. 03, 2010	Nov. 02, 2011	Radiation (03CH05-HY)
Amplifier	COM-POWER	PA-103	161075	1KHz - 1GHz	Mar. 29, 2011	Mar. 28, 2012	Radiation (03CH05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2725	30MHz ~ 1GHz	Nov. 06, 2010	Nov. 05, 2011	Radiation (03CH05-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	15GHz- 40GHz	Oct. 18, 2010	Oct. 17, 2011	Radiation (03CH05-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz- 26.5GHz	Apr. 15, 2010	Apr. 14, 2011	Radiation (03CH05-HY)
Turn Table	HD	Deis HD 2000	420/611	0 - 360 degree	N/A	N/A	Radiation (03CH05-HY)
Antenna Mast	HD	MA 240	240/666	1 m - 4 m	N/A	N/A	Radiation (03CH05-HY)
Horn Antenna	ESCO	3117	00066584	1GHz ~ 18GHz	Aug. 05, 2010	Aug. 04, 2011	Radiation (03CH05-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH05-HY)
System Simulator	R&S	CMU200	117591	N/A	Oct. 18, 2010	Oct. 17, 2011	Radiation (03CH05-HY)

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 22 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.41	Normal (k=2)	0.21	
Antenna Factor Calibration	0.83	0.83 Normal (k=2)		
Cable Loss Calibration	0.25 Normal (k=2)		0.13	
Pre-Amplifier Gain Calibration	0.27 Normal (k=2)		0.14	
RCV/SPA Specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site Imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39 / -0.41 U-Shape		0.28	
Combined Standard Uncertainty Uc(y)	1.27			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))		2.54		

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

	Uncertai					
Contribution	dB	Probability Distribution	u(X _i)	C _i	C _i * u(X _i)	
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10	
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85	
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25	
Receiver Correction	±2.00	Rectangular	1.15	1	1.15	
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87	
Site Imperfection	±2.80	Triangular	1.14	1	1.14	
Mismatch Receiver VSWR Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244	
Combined Standard Uncertainty Uc(y)	2.36					
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))		4.7	72			

SPORTON INTERNATIOINAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : 23 of 23
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01

Appendix A. Photographs of EUT

Please refer to Sporton report number EP131021-02 as below.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XHG-S600C Page Number : A1 of A1
Report Issued Date : Apr. 12, 2011
Report Version : Rev. 01