APPLICANT : NetComm Limited EQUIPMENT : HSPA+ WiFi Router

BRAND NAME : NetComm

MODEL NAME : 3G39W-V & 3G39W-I MARKETING NAME : HSPA+ Wi-Fi Router

FCC ID : XIA-3G39W

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

TW/PW FREQUENCY BANCE : CSM850 : 824.2 - 848.8 MUz. /

Tx/Rx FREQUENCY RANGE : GSM850 : 824.2 ~ 848.8 MHz /

869.2 ~ 893.8 MHz

GSM1900: 1850.2 ~ 1909.8 MHz / 1930.2 ~ 1989.8 MHz

WCDMA Band V: 826.4 ~ 846.6 MHz/

871.4 ~ 891.6 MHz

WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz

2112.4 MHz ~ 2152.6 MHz

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WCDMA Band II: 1852.4 ~ 1907.6 MHz/

1932.4 ~ 1987.6 MHz

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MAX. ERP/EIRP POWER : GSM850 (GPRS 8) : 0.58 W

GSM850 (EDGE 8): 0.18 W GSM1900 (GPRS 8): 0.42 W GSM1900 (EDGE 8): 0.20 W

WCDMA Band V (RMC 12.2Kbps): 0.11 W WCDMA Band IV (RMC 12.2Kbps): 0.29 W WCDMA Band II (RMC 12.2Kbps): 0.11 W

The product was integrated the WWAN Module (Brand Name: Huawei / Model Name: EM820U, FCC ID: QISEM820U) during the test.

The product was received on Oct. 27, 2011 and completely tested on Nov. 12, 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:

Jones Tsai / Manager





Report No.: FG102734

### SPORTON INTERNATIONAL INC.

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

SPORTON INTERNATIONAL INC.

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**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG102734	Rev. 01	Initial issue of report	Nov. 25, 2011

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**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.1	§27.50(d)(2)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.2	§2.1053 §22.917(a) §24.238(a) §27.53(g)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Field Strength of Spurious Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 12.97 dB at 5636.00 MHz

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# 1 General Description

# 1.1 Applicant

#### **NetComm Limited**

Level 2, 18-20 Orion Road Lane Cove, NSW Australia

## 1.2 Manufacturer

#### **NetComm Limited**

Level 2, 18-20 Orion Road Lane Cove, NSW Australia

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# 1.3 Feature of Equipment Under Test

Product Feature & Specification					
Equipment	HSPA+ WiFi Router				
Brand Name	NetComm				
Model Name	3G39W-V & 3G39W-I				
Marketing Name	HSPA+ Wi-Fi Router				
FCC ID	XIA-3G39W				
	GSM850 : 824 MHz ~ 849 MHz				
	GSM1900 : 1850 MHz ~ 1910 MHz				
Tx Frequency	WCDMA Band V : 824 MHz ~ 849 MHz				
	WCDMA Band IV : 1710 MHz ~ 1755 MHz				
	WCDMA Band II : 1850 MHz ~ 1910 MHz				
	GSM850 : 869 MHz ~ 894 MHz				
	GSM1900 : 1930 MHz ~ 1990 MHz				
Rx Frequency	WCDMA Band V : 869 MHz ~ 894 MHz				
	WCDMA Band IV : 2110 MHz ~ 2155 MHz				
	WCDMA Band II : 1930 MHz ~ 1990 MHz				
	GSM850 : 32.68 dBm				
	GSM1900 : 29.52 dBm				
Maximum Output Power to Antenna	WCDMA Band V : 23.61 dBm				
	WCDMA Band IV: 23.71 dBm				
	WCDMA Band II : 23.56 dBm				
Antonno Tyro	Main Antenna : Fixed External Antenna				
Antenna Type	Aux. Antenna : Fixed Internal Antenna				
HW Version	V1.32				
SW Version	3G39W-I: 1.1.70.0 / 3G39W-V: 1.1.86.0				
	GSM: GMSK				
	GPRS: GMSK				
Type of Modulation	EDGE: GMSK / 8PSK				
i ype or wodulation	WCDMA: QPSK (Uplink)				
	HSDPA: QPSK (Uplink)				
	HSUPA: QPSK (Uplink)				
EUT Stage	Identical Prototype				

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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## 1.4 Emission Designator and Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP
Part 22	GSM850 GPRS 8	GMSK	0.58 W
Part 22	GSM850 EDGE 8	GMSK / 8PSK	0.18 W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK (Uplink)	0.11 W
Part 24	GSM1900 GPRS 8	GMSK	0.42 W
Part 24	GSM1900 EDGE 8	GMSK / 8PSK	0.20 W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK (Uplink)	0.11 W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK (Uplink)	0.29 W

## 1.5 Testing Site

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,				
Test Site Location	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.				
Test Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Took Site No.	Sporton Site No.		FCC/IC Registration No.		
Test Site No.	TH02-HY	03CH07-HY	722060/4086B-1		

## 1.6 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.
- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-C-2004
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5
- IC RSS-139 Issue 2

#### Remark:

- 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, recorded in a separate test report.

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# 1.7 Ancillary Equipment List

lt	em	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
	1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m

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## 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 GSM850 and WCDMA Band V.
- 2. 30 MHz to 18000 MHz for WCDMA Band IV.
- 3. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes				
Band	Radiated TCs			
CCM 950	■ GPRS 8 Link			
GSM 850	■ EDGE 8 Link			
GSM 1900	■ GPRS 8 Link			
G 5 W 1900	■ EDGE 8 Link			
WCDMA Band V	■ RMC 12.2Kbps Link			
WCDMA Band IV	■ RMC 12.2Kbps Link			
WCDMA Band II	■ RMC 12.2Kbps Link			

#### Note:

- The maximum power levels are GPRS multi-slot class 8 mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, RMC 12.2Kbps mode for WCDMA band IV, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.
- Because there are individual antennas for each WWAN and WLAN, the co-location test modes are not required.

#### The conducted power tables are as follows:

Conducted Power (*Unit: dBm)							
Band		GSM850			GSM1900		
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8	
GPRS 8	32.66	<mark>32.68</mark>	32.68	29.36	<mark>29.52</mark>	29.50	
GPRS 10	30.59	30.63	30.62	27.85	28.00	27.97	
GPRS 12	27.50	27.51	27.52	25.76	25.94	25.93	
EGPRS 8	<mark>26.22</mark>	26.22	26.18	<mark>25.54</mark>	25.50	25.45	
EGPRS 10	25.11	25.07	25.05	23.93	24.01	24.02	
EGPRS 12	23.01	22.99	22.98	21.82	21.95	21.94	

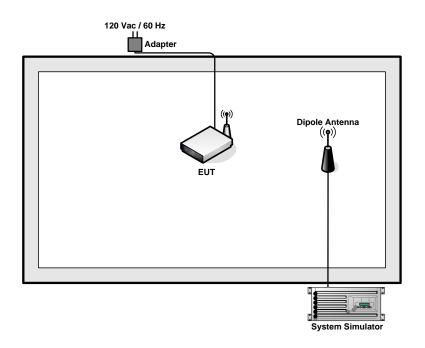
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On Lock   Down (411-16   Dow)									
Conducted Power (*Unit: dBm)									
Band	WC	DMA Bar	nd V	WC	DMA Bai	nd II	WCDMA Band IV		
Tx Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Rx Channel	4357	4408	4458	9662	9800	9938	1537	1638	1738
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
RMC 12.2K	<mark>23.61</mark>	23.44	23.43	23.48	23.38	<mark>23.56</mark>	23.41	<b>23.71</b>	23.46
HSDPA Subtest-1	23.60	23.51	23.56	23.49	23.36	23.55	23.40	23.60	23.43
HSDPA Subtest-2	23.55	23.56	23.44	23.30	23.25	23.46	23.37	23.62	23.42
HSDPA Subtest-3	23.55	23.58	23.50	23.38	23.22	23.52	23.38	23.67	23.33
HSDPA Subtest-4	23.58	23.49	23.39	23.35	23.29	23.49	23.48	23.67	23.51
HSUPA Subtest-1	23.35	23.28	23.15	22.89	22.95	23.25	23.02	23.44	23.22
HSUPA Subtest-2	22.49	22.61	22.67	23.29	23.18	23.23	22.61	23.01	22.97
HSUPA Subtest-3	23.04	23.21	23.25	22.67	22.72	22.91	23.18	23.24	22.95
HSUPA Subtest-4	22.25	22.25	22.63	22.80	22.70	22.65	22.50	22.41	22.39
HSUPA Subtest-5	23.02	23.10	22.80	22.79	22.61	22.73	23.07	23.12	22.91

# 2.2 Connection Diagram of Test System



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#### 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. The EIRP of mobile transmitters are limited to 2 Watts for 1850~1910 MHz and 1 watt for 1710~1755 MHz.

#### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.1.3 Test Procedures

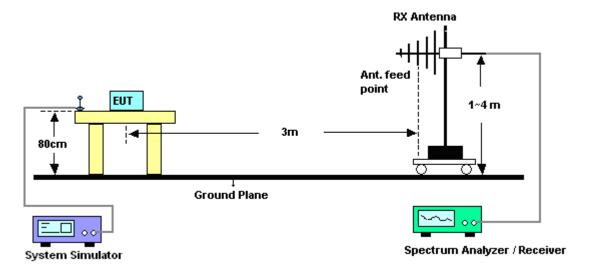
- The EUT was placed on an non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz,VBW= 3MHz, and peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP 2.15.

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## 3.1.4 Test Setup



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#### 3.1.5 Test Result of ERP

GSM850 (GPRS 8) Radiated Power ERP								
	Horizontal Polarization							
Frequency	LVL	Correction Factor	ERP	ERP				
(MHz)	(dBm)	(dB)	(dBm)	(W)				
824.2	-4.00	30.89	24.74	0.30				
836.4	-4.57	31.13	24.41	0.28				
848.8	-5.64	31.62	23.83	0.24				
		Vertical Polarization						
Frequency	LVL	Correction Factor	ERP	ERP				
(MHz)	(dBm)	(dB)	(dBm)	(W)				
824.2	-6.12	35.93	27.66	0.58				
836.4	-5.63	34.95	27.17	0.52				
848.8	-6.26	34.71	26.30	0.43				

<sup>\*</sup> ERP = LVL (dBm) + Correction Factor (dB) - 2.15

GSM850 (EDGE 8) Radiated Power ERP							
OSINIOSO (LDOL O) Nadiated Fower LINF							
		Horizontal Polarization					
Frequency	LVL	Correction Factor	ERP	ERP			
(MHz)	(dBm)	(dB)	(dBm)	(W)			
824.2	-8.81	30.89	19.93	0.10			
836.4	-9.49	31.13	19.49	0.09			
848.8	-10.49	31.62	18.98	0.08			
		Vertical Polarization					
Frequency	LVL	Correction Factor	ERP	ERP			
(MHz)	(dBm)	(dB)	(dBm)	(W)			
824.2	-11.18	35.93	22.60	0.18			
836.4	-10.40	34.95	22.40	0.17			
848.8	-11.05	34.71	21.51	0.14			

<sup>\*</sup> ERP = LVL (dBm) + Correction Factor (dB) - 2.15

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WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP									
		Horizontal Polarization							
Frequency	LVL	Correction Factor	ERP	ERP					
(MHz)	(dBm)	(dB)	(dBm)	(W)					
826.4	-11.21	30.89	17.53	0.06					
836.4	-11.28	31.13	17.70	0.06					
846.6	-12.20	31.62	17.27	0.05					
		Vertical Polarization							
Frequency	LVL	Correction Factor	ERP	ERP					
(MHz)	(dBm)	(dB)	(dBm)	(W)					
826.4	-13.51	35.93	20.27	0.11					
836.4	-12.49	34.95	20.31	0.11					
846.6	-13.03	34.71	19.53	0.09					

<sup>\*</sup> ERP = LVL (dBm) + Correction Factor (dB) -2.15

## 3.1.6 Test Result of EIRP

GSM1900 (GPRS 8) Radiated Power EIRP									
		Horizontal Polarization							
Frequency	LVL	Correction Factor	EIRP	EIRP					
(MHz)	(dBm)	(dB)	(dBm)	(W)					
1850.2	-20.22	41.24	21.02	0.13					
1880.0	-19.24	41.46	22.22	0.17					
1909.8	-19.94	41.21	21.27	0.13					
		Vertical Polarization							
Frequency	LVL	Correction Factor	EIRP	EIRP					
(MHz)	(dBm)	(dB)	(dBm)	(W)					
1850.2	-17.49	41.52	24.03	0.25					
1880.0	-16.84	43.10	26.26	0.42					
1909.8	-16.85	42.73	25.88	0.39					

<sup>\*</sup> EIRP = LVL (dBm) + Correction Factor (dB)

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GSM1900 (EDGE 8) Radiated Power EIRP									
		Horizontal Polarization							
Frequency	LVL	Correction Factor	EIRP	EIRP					
(MHz)	(dBm)	(dB)	(dBm)	(W)					
1850.2	-23.39	41.24	17.85	0.06					
1880.0	-22.58	41.46	18.88	0.08					
1909.8	-22.90	41.21	18.31	0.07					
		Vertical Polarization							
Frequency	LVL	Correction Factor	EIRP	EIRP					
(MHz)	(dBm)	(dB)	(dBm)	(W)					
1850.2	-20.35	41.52	21.17	0.13					
1880.0	-20.03	43.10	23.07	0.20					
1909.8	-19.92	42.73	22.81	0.19					

<sup>\*</sup> EIRP = LVL (dBm) + Correction Factor (dB)

WCDM	WCDMA Band IV (RMC 12.2Kbps) Radiated Power EIRP									
		Horizontal Polarization								
Frequency	LVL	Correction Factor	EIRP	EIRP						
(MHz)	(dBm)	(dB)	(dBm)	(W)						
1712.4	-23.68	39.24	15.56	0.04						
1732.6	-22.73	40.25	17.52	0.06						
1752.6	-25.06	40.31	15.25	0.03						
		Vertical Polarization								
Frequency	LVL	Correction Factor	EIRP	EIRP						
(MHz)	(dBm)	(dB)	(dBm)	(W)						
1712.4	-19.47	44.11	24.64	0.29						
1732.6	-20.13	42.66	22.53	0.18						
1752.6	-19.21	41.70	22.49	0.18						

<sup>\*</sup> EIRP = LVL (dBm) + Correction Factor (dB)

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WCDM	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP										
		Horizontal Polarization									
Frequency	LVL	Correction Factor	EIRP	EIRP							
(MHz)	(dBm)	(dB)	(dBm)	(W)							
1852.4	-26.09	41.24	15.15	0.03							
1880.0	-23.79	41.46	17.67	0.06							
1907.6	-25.89	41.21	15.32	0.03							
		Vertical Polarization									
Frequency	LVL	Correction Factor	EIRP	EIRP							
(MHz)	(dBm)	(dB)	(dBm)	(W)							
1852.4	-22.03	41.52	19.49	0.09							
1880.0	-22.61	43.10	20.49	0.11							
1907.6	-22.63	42.73	20.10	0.10							

<sup>\*</sup> EIRP = LVL (dBm) + Correction Factor (dB)

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## 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 + 10 log (P) 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.

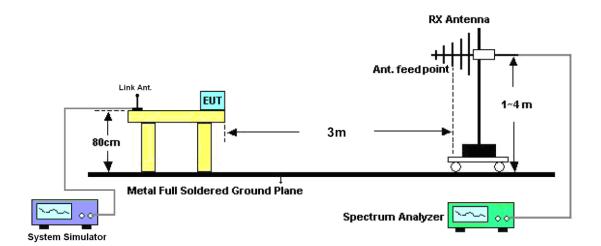
#### 3.2.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- 2. 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.
- 5. 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: XIA-3G39W Page Number : 18 of 35
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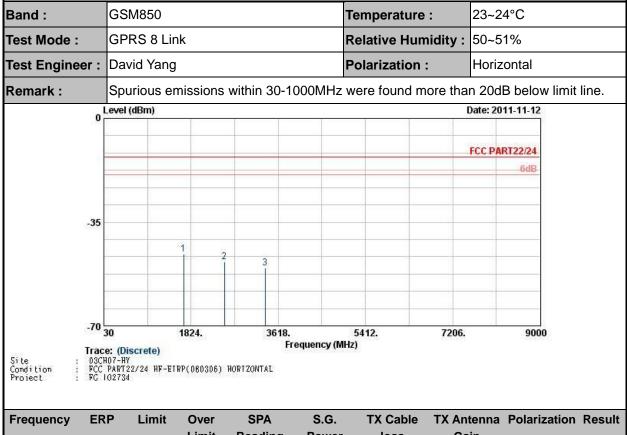


# 3.2.4 Test Setup



TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W Page Number : 19 of 35
Report Issued Date : Nov. 25, 2011
Report Version : Rev. 01

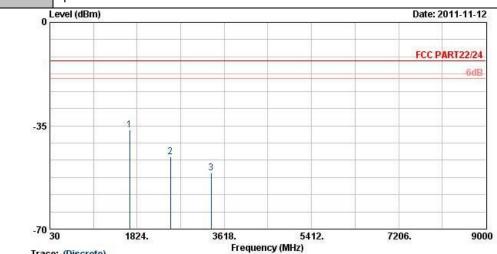
#### 3.2.5 Test Result of Field Strength of Spurious Radiated



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	-45.84	-13	-32.84	-54.96	-47.56	1.62	5.49	Н	Pass
2509	-48.47	-13	-35.47	-63.02	-50.44	2.1	6.22	Н	Pass
3345	-50.39	-13	-37.39	-65.4	-53.28	3.03	8.07	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W Page Number : 20 of 35
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Report Version : Rev. 01

Band :	GSM850	Temperature :	23~24°C				
Test Mode :	GPRS 8 Link	Relative Humidity :	50~51%				
Test Engineer :	David Yang	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



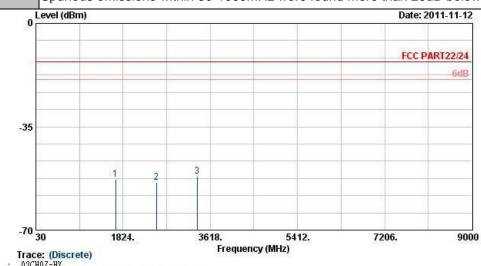
Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-ETRP(080306) VERTICAL
FG 102734 Site Condition Project

**Frequency ERP** Limit Over **SPA** S.G. **TX Cable TX Antenna Polarization Result** loss Limit Reading Power Gain (MHz) (dBm) (dBm) (dB) (dBm) (dBm) (dB) (dBi) (H/V)-36.53 -13 -23.53 -48.74 -38.25 5.49 ٧ Pass 1672 1.62 2509 -45.62 -13 -32.62 -60.4 -47.59 2.1 6.22 ٧ Pass 3345 -50.89 -13 -37.89 -66.78 -53.78 3.03 8.07 ٧ Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

Page Number : 21 of 35 Report Issued Date: Nov. 25, 2011 Report Version : Rev. 01

Band :	GSM850	Temperature :	23~24°C			
Test Mode :	EDGE 8 Link	Relative Humidity :	50~51%			
Test Engineer :	David Yang	Polarization :	Horizontal			
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-EIRP(080306) HORIZONTAL
FG 102734 Site Condition Project

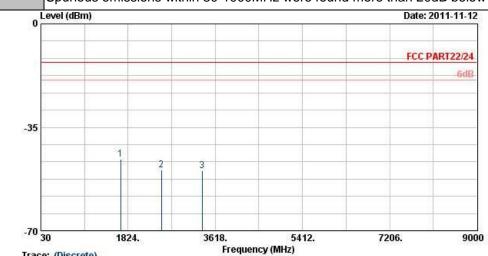
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-52.90	-13	-39.90	-62.02	-54.62	1.62	5.49	Н	Pass
2509	-53.91	-13	-40.91	-67.32	-55.88	2.1	6.22	Н	Pass
3345	-51.83	-13	-38.83	-66.19	-54.72	3.03	8.07	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	GSM850	Temperature :	23~24°C		
Test Mode :	EDGE 8 Link	Relative Humidity :	50~51%		
Test Engineer :	David Yang	Polarization :	Vertical		
Domork .	Paurious amissions within 20 4000MHz were found more than 20dD helaw limit line				

Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-ETRP(080306) VERTICAL
FG 102734 Site Condition Project

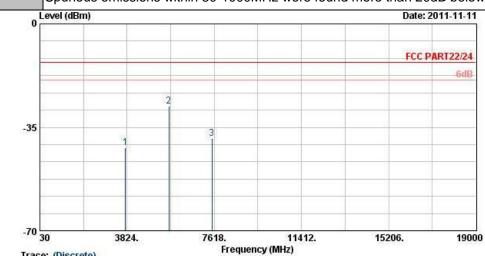
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-45.87	-13	-32.87	-58.05	-47.59	1.62	5.49	V	Pass
2509	-49.52	-13	-36.52	-64.65	-51.49	2.1	6.22	V	Pass
3345	-49.60	-13	-36.60	-65.76	-52.49	3.03	8.07	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	GSM1900	Temperature :	23~24°C			
Test Mode :	GPRS 8 Link	Relative Humidity :	50~51%			
Test Engineer :	David Yang	Polarization :	Horizontal			
Domork .	Courious emissions within 20 1000MHz were found more than 20dD below limit line					

Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-EIRP(080306) HORIZONTAL
FG 102734 Site Condition Project

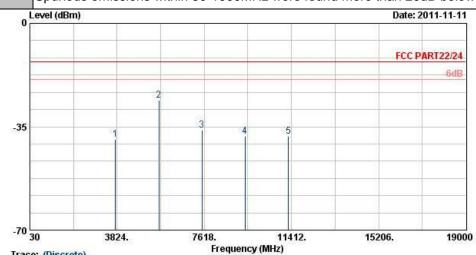
Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	( dBm )	( dB )	(dBi)	(H/V)	
3760	-41.81	-13	-28.81	-57.17	-48.11	2.51	8.81	Н	Pass
5636	-27.92	-13	-14.92	-48.13	-35.63	2.99	10.70	Н	Pass
7520	-38.81	-13	-25.81	-67.23	-47.34	3.59	12.12	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	GSM1900	Temperature :	23~24°C
Test Mode :	GPRS 8 Link	Relative Humidity :	50~51%
Test Engineer :	David Yang	Polarization :	Vertical
_	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		00.15.1

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site Condition Project

Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-ETRP(080306) VERTICAL
FG 102734

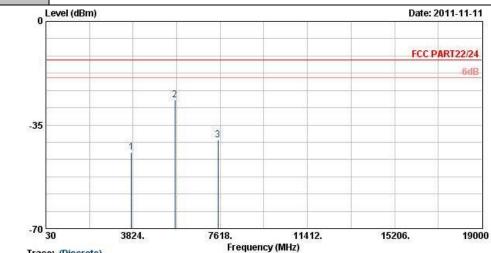
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-39.17	-13	-26.17	-56.21	-45.47	2.51	8.81	V	Pass
5636	-25.97	-13	-12.97	-47.27	-33.68	2.99	10.70	V	Pass
7520	-36.24	-13	-23.24	-63.72	-44.77	3.59	12.12	V	Pass
9396	-38.15	-13	-25.15	-64.47	-47.25	4.1	13.20	V	Pass
11280	-38.32	-13	-25.32	-67.51	-47.36	4.27	13.31	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Report	No.:	FG102734
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Band :	GSM1900	Temperature :	23~24°C			
Test Mode :	EDGE 8 Link	Relative Humidity :	50~51%			
Test Engineer :	David Yang	Polarization :	Horizontal			
Remark:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.					



Site Condition Project

Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-EIRP(080306) HORIZONTAL
FG 102734

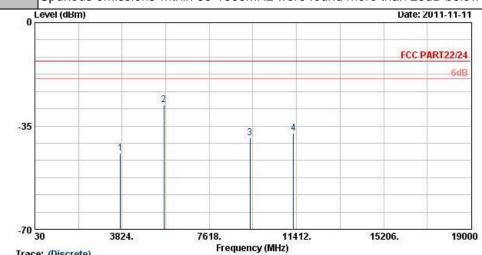
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-44.18	-13	-31.18	-60.1	-50.48	2.51	8.81	Н	Pass
5636	-26.55	-13	-13.55	-46.9	-34.26	2.99	10.70	Н	Pass
7520	-39.98	-13	-26.98	-67.31	-48.51	3.59	12.12	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Report	No.	: FG1	O2734
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Band :	GSM1900	Temperature :	23~24°C				
Test Mode :	EDGE 8 Link	Relative Humidity :	50~51%				
Test Engineer :	David Yang	Polarization :	Vertical				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



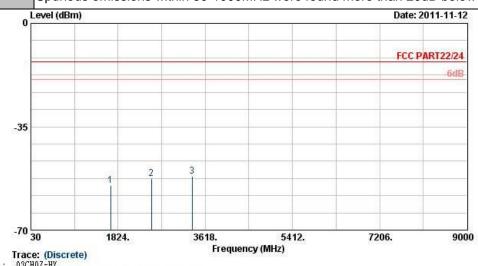
Trace: (Discrete)
03CH07-HV
FCC PART22/24 HF-ETRP(080306) VERTICAL
FG 102734

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	-44.31	-13	-31.31	-60.38	-50.61	2.51	8.81	V	Pass
5636	-27.78	-13	-14.78	-48.77	-35.49	2.99	10.70	V	Pass
9396	-39.13	-13	-26.13	-66.11	-48.23	4.1	13.20	V	Pass
11280	-37.44	-13	-24.44	-66.38	-46.48	4.27	13.31	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	WCDMA Band V	Temperature :	23~24°C				
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	50~51%				
Test Engineer :	David Yang	Polarization :	Horizontal				
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-EIRP(080306) HORIZONTAL
FG 102734 Site Condition Project

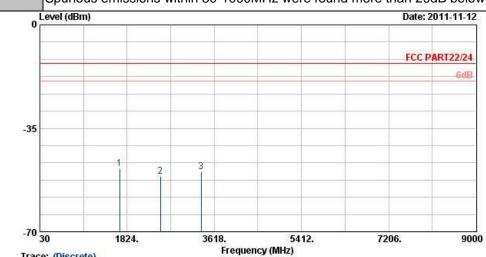
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-54.85	-13	-41.85	-64.71	-56.57	1.62	5.49	Н	Pass
2509	-52.66	-13	-39.66	-66.87	-54.63	2.1	6.22	Н	Pass
3345	-51.83	-13	-38.83	-66.14	-54.72	3.03	8.07	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	WCDMA Band V	Temperature :	23~24°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	50~51%
Test Engineer :	David Yang	Polarization :	Vertical

Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark:



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-ETRP(080306) VERTICAL
FG 102734 Site Condition Project

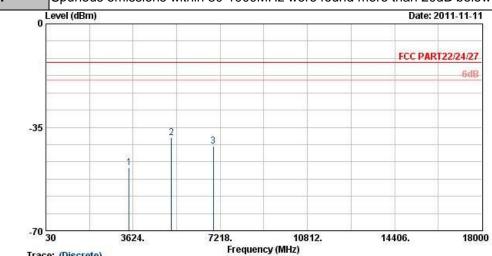
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-48.69	-13	-35.69	-60.57	-50.41	1.62	5.49	V	Pass
2509	-51.29	-13	-38.29	-66.24	-53.26	2.1	6.22	V	Pass
3345	-49.78	-13	-36.78	-65.96	-52.67	3.03	8.07	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	WCDMA Band IV	Temperature :	23~24°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	50~51%
Test Engineer :	David Yang	Polarization :	Horizontal
_			

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Trace: (Discrete)
03CH07-HY
FCC PART22/24/27 HF-EIRP(080306) HORIZONTAL
FG 102734 Site Condition Project

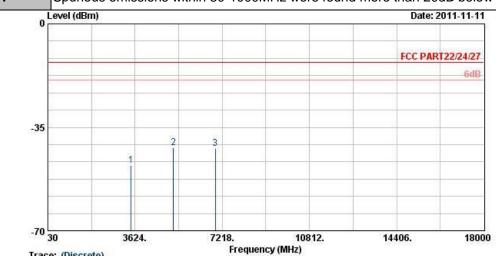
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
Troquency	2	2	Limit	Reading	Power	loss	Gain	i olarization	Rooun
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3465	-48.63	-13	-35.63	-63.74	-52.46	4.48	8.31	Н	Pass
5197	-38.63	-13	-25.63	-58.57	-43.27	5.332	9.98	Н	Pass
6930	-41.49	-13	-28.49	-68.09	-46.73	6.1	11.34	Н	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	WCDMA Band IV	Temperature :	23~24°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	50~51%
Test Engineer :	David Yang	Polarization :	Vertical
_			

Spurious emissions within 30-1000MHz were found more than 20dB below limit line. Remark:



Site Condition Project

Trace: (Discrete)
03CH07-HY
FCC PART22/24/27 HF-ETRP(080306) VERTICAL
FG 102734

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)	
3465	-47.95	-13	-34.95	-64.35	-51.78	4.48	8.31	V	Pass
5197	-41.98	-13	-28.98	-61.07	-46.62	5.332	9.98	V	Pass
6930	-42.07	-13	-29.07	-67.7	-47.31	6.1	11.34	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Repo	rt No.	:	FG1	02734

Band :	WCDMA Band II	Temperature :	23~24°C						
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	50~51%						
Test Engineer :	David Yang	Polarization :	Horizontal						
Remark :	Spurious emissions within 30-1000MHz	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							
0,	evel (dBm)		Date: 2011-11-11						
			FCC PART22/24						
			-6dB-						
-35	3								

7618. Frequency (MHz) Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-EIRP(080306) HORIZONTAL
FG 102734

3824.

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	-44.17	-13	-31.17	-59.7	-50.47	2.51	8.81	Н	Pass
5636	-43.95	-13	-30.95	-65.34	-51.66	2.99	10.70	Н	Pass
7520	-40.42	-13	-27.42	-67.78	-48.95	3.59	12.12	Н	Pass

11412.

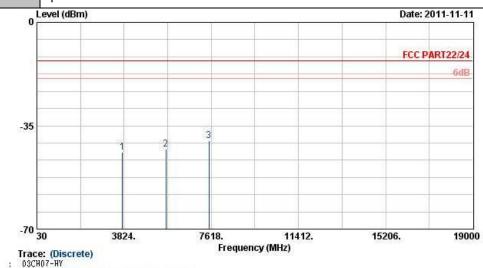
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19000

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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Band :	WCDMA Band II	Temperature :	23~24°C					
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	50~51%					
Test Engineer :	David Yang	Polarization :	Vertical					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							



Trace: (Discrete)
03CH07-HY
FCC PART22/24 HF-ETRP(080306) VERTICAL
FG 102734 Site Condition Project

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable		Polarization	Result
(MHz)	(dBm)	(dBm)	Limit ( dB )	Reading (dBm)	Power (dBm)	loss ( dB )	Gain (dBi)	(H/V)	
3760	-44.01	-13	-31.01	-60.6	-50.31	2.51	8.81	V	Pass
5636	-43.03	-13	-30.03	-65.45	-50.74	2.99	10.70	V	Pass
7520	-40.15	-13	-27.15	-67.64	-48.68	3.59	12.12	V	Pass

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W

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# 4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	N/A	Sep. 18, 2011	Nov. 16, 2011	Sep. 17, 2012	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0846202	N/A	Sep. 18, 2011	Nov. 16, 2011	Sep. 17, 2012	Conducted (TH02-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Feb. 18, 2011	Nov. 16, 2011	Feb. 17, 2012	Conducted (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 18, 2011	Nov. 16, 2011	Feb. 17, 2012	Conducted (TH02-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Oct. 22, 2011	Nov. 11, 2011 ~Nov. 12,2011	Oct. 21, 2012	Radiation (03CH07-HY
Spectrum Analyzer	R&S	FSP30	101067	9KHz ~ 30GHz	Dec. 03, 2010	Nov. 11, 2011 ~Nov. 12,2011	Dec. 02, 2011	Radiation (03CH07-HY
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 10, 2011	Nov. 11, 2011 ~Nov. 12,2011	Aug. 09, 2012	Radiation (03CH07-HY
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 06, 2010	Nov. 11, 2011 ~Nov. 12,2011	Dec. 05, 2011	Radiation (03CH07-HY
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz.32dB. GAIN	Mar. 29, 2011	Nov. 11, 2011 ~Nov. 12,2011	Mar. 28, 2012	Radiation (03CH07-HY
EMI TEST RECEIVER	R&S	ESCI 7	100724	9kHz~7GHz	Aug. 22, 2011	Nov. 11, 2011 ~Nov. 12,2011	Aug. 21, 2012	Radiation (03CH07-HY
Pre Amplifier	MITEQ	AMF-7D-00 101800-30-1	159088	1GHz ~ 18GHz	Feb. 21, 2011	Nov. 11, 2011 ~Nov. 12,2011	Feb. 20, 2012	Radiation (03CH07-HY
System Simulator	R&S	CMU200	114256	N/A	Feb. 15, 2011	Nov. 11, 2011 ~Nov. 12,2011	Feb. 14, 2012	Radiation (03CH07-HY

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: XIA-3G39W Page Number : 34 of 35
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# 5 Uncertainty of Evaluation

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

	Uncerta	inty of X <sub>i</sub>		
Contribution	dB	Probability Distribution	u(X <sub>i</sub> )	
Receiver Reading	0.41	Normal (k=2)	0.21	
Antenna Factor Calibration	0.83	Normal (k=2)	0.42	
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)**

Contribution	Uncertainty of X <sub>i</sub>				
	dB	Probability Distribution	u(X <sub>i</sub> )	C <sub>i</sub>	C <sub>i</sub> * u(X <sub>i</sub> )
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 $\Gamma$ 1 = 0.197 Antenna VSWR $\Gamma$ 2 = 0.194 Uncertainty = 20Log(1- $\Gamma$ 1* $\Gamma$ 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))	4.72				

SPORTON INTERNATIONAL INC.

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# Appendix A. Photographs of EUT

Please refer to Sporton report number EP1O2734 as below.

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