FCC Test Report

APPLICANT : i.am.plus electronics inc

EQUIPMENT: SmartWatch

BRAND NAME : iamplus MODEL NAME : IAM1111

MARKETING NAME : dial

FCC ID : 2AB2S-IAM1111

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jan. 13, 2016 and testing was completed on Feb. 16, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in 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: Louis Wu / Manager

Lunis Win

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

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

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 1 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Testing Laboratory 1190

Report No.: FC611330

Report Template No.: BU5-FD15B Version 1.2

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	ММАР	RY OF TEST RESULT	4
1.	GENI	ERAL DESCRIPTION	5
	1.1.	Applicant	5
	1.2.	Manufacturer	
	1.3.	Product Feature of Equipment Under Test	
	1.4.	Product Specification of Equipment Under Test	6
	1.5.	Modification of EUT	6
	1.6.	Test Location	
	1.7.	Applicable Standards	7
2.	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	8
	2.1.	Test Mode	8
	2.2.	Connection Diagram of Test System	
	2.3.	Support Unit used in test configuration and system	
	2.4.	EUT Operation Test Setup	
3.	TEST	「RESULT	13
	3.1.	Test of AC Conducted Emission Measurement	13
	3.2.	Test of Radiated Emission Measurement	17
4.	LIST	OF MEASURING EQUIPMENT	21
5.	UNCI	ERTAINTY OF EVALUATION	22

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 2 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC611330	Rev. 01	Initial issue of report	May 12, 2016

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 3 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	6.90 dB at
					0.158 MHz
					Under limit
0.0	15 100	Dedicted Emissies	45 400 limita	DACC	11.56 dB at
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	240.060 MHz
					for Quasi-Peak

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 4 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

1. General Description

1.1. Applicant

i.am.plus electronics inc

10960 Wilshire Blvd., 5th Floor Los Angeles, CA 90024

1.2. Manufacturer

FIH Mobile Limited

No. 4, Mingsheng St., Tu-Cheng Dist., New Taipei City 23679, Taiwan

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	SmartWatch
Brand Name	iamplus
Model Name	IAM1111
Marketing Name	dial
FCC ID	2AB2S-IAM1111
	GSM/EGPRS/WCDMA/HSPA
EUT supports Radios application	WLAN 11b/g/n HT20
	Bluetooth v4.0 EDR/LE
HW Version	PR2
SW Version	1C0C_V1.240
EUT Stage	Production Unit

Remark: 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.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 5 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification					
Otanuai us	•				
	GSM850: 824.2 MHz ~ 848.8 MHz				
	GSM1900: 1850.2 MHz ~ 1909.8MHz				
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz				
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GSM850: 869.2 MHz ~ 893.8 MHz				
	GSM1900: 1930.2 MHz ~ 1989.8 MHz				
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz				
Rx Frequency	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz				
	802.11b/g/n: 2412 MHz ~ 2462 MHz				
	Bluetooth: 2402 MHz ~ 2480 MHz				
	GPS: 1.57542 GHz				
	WWAN : Dipole Antenna				
Antenna Type	WLAN : PIFA Antenna				
Antenna Type	Bluetooth : PIFA Antenna				
	GPS: PIFA Antenna				
	GSM: GMSK				
	GPRS: GMSK				
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK				
	WCDMA: QPSK (Uplink)				
	HSDPA: QPSK (Downlink)				
	HSUPA: QPSK (Uplink)				
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK)				
	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)				
	Bluetooth LE: GFSK				
	Bluetooth (1Mbps) : GFSK				
	Bluetooth (2Mbps) : π /4-DQPSK				
	Bluetooth (3Mbps): 8-DPSK				
	GPS: BPSK				

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 6 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

1.6. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.				
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,				
Test Site Location	Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.				
rest Site Location	TEL: +886-3-327-3456				
	FAX: +886-3-328-4978				
Took Cito No.	Sporton	Site No.			
Test Site No.	CO05-HY	03CH06-HY			

1.7. Applicable Standards

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

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 7 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

		Test Condition			
Item	EUT Configuration	EMI	EMI	EMI	
		AC	RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	Note 1	\boxtimes	Note 1	
2.	Data application transferred mode (EUT with notebook)	\boxtimes	\boxtimes	\boxtimes	

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 1.

SPORTON INTERNATIONAL INC.

FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111

TEL: 886-3-327-3456

Page Number : 8 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report No.: FC611330

Report Template No.: BU5-FD15B Version 1.2

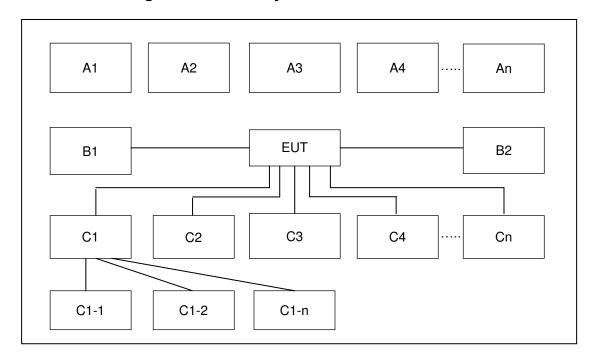
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + USB Cable (Charging from Adapter)
AC Conducted Emission	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable (Data Link with Notebook)
		Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Camera + USB Cable (Data Link with Notebook)
		Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN Idle + MPEG4 + USB Cable (Charging from Adapter)
Radiated Emissions < 1GHz	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable (Data Link with Notebook)
		Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Camera + USB Cable (Data Link with Notebook)
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Camera + USB Cable (Data Link with Notebook)

Remark:

- 1. The worst case of AC is mode 2; only the test data of this mode was reported.
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode was reported.
- **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 9 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01
Report Template No.: BU5-FD15B Version 1.2

2.2. Connection Diagram of Test System



	Conduction Test Setup								
No	Wireless Station	Connection Type	Test Mode						
No.	wireless Station	Connection Type	1	2	3	-	-	-	-
A1	BT Earphone	Bluetooth	Х	Х	Х				
A2	System Simulator	GSM/WCDMA	Х	Х	Χ				
A3	GPS Station	GPS		Х					
A4	AP router	WiFi	Х	Х	Х				
No.	Power Source	Connection Type	1	2	3	-	-	-	-
B1	AC: 120V/60Hz	AC Power Cable	Х						
B2	Power from system	AC Power Cable		Х	Х				
No.	Setup Peripherals	Connection Type	1	2	3	-	-	-	-
C1	Notebook	USB Cable		Х	Χ				
C1-1	iPod	USB Cable to C1		Х	Χ				
C1-2	AP router	RJ-45 Cable to C1		Х	Х				

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 10 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

	Radiation Test Setup								
No	Wireless Station	Connection Type		Test Mode					
No.	wireless Station	Connection Type	1	2	3	-	•	-	-
A1	BT Earphone	Bluetooth	Х	Х	Χ				
A2	System Simulator	GSM/WCDMA	Х	Х	Χ				
А3	GPS Station	GPS		Х					
A4	AP router	WiFi	Х	Х	Х				
No.	Power Source	Connection Type	1	2	3	-	•	-	-
B1	AC: 120V/60Hz	AC Power Cable	Х						
No.	Setup Peripherals	Connection Type	1	2	3	-	-	-	-
C1	Notebook	USB cable		Χ	Х				
C1-1	iPod	USB Cable to C1		Х	Х				
C1-2	AP Router	RJ-45 Cable to C1		Х	Х				

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 11 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-628	KA2IR628A2	N/A	Unshielded, 1.8 m
5.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
7.	iPod	Apple	A1285	FCC DoC	Unshielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Laptop and EUT via USB cable.
- 2. Execute "GPS RX Test" or "FPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video Player" to play MPEG4 files.
- 4. Turn on camera to capture images.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 12 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

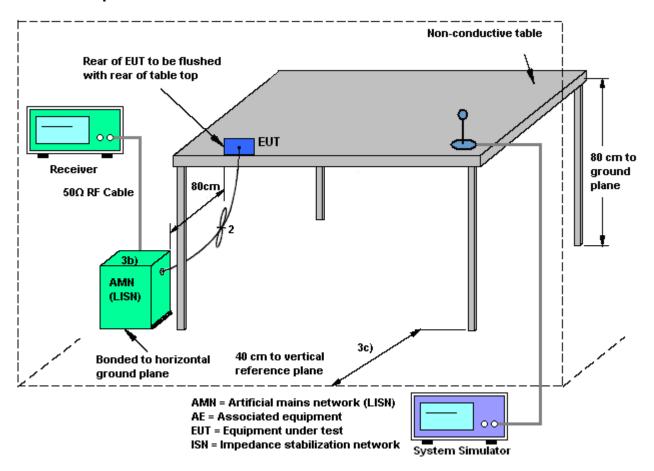
3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 13 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

3.1.4 Test Setup



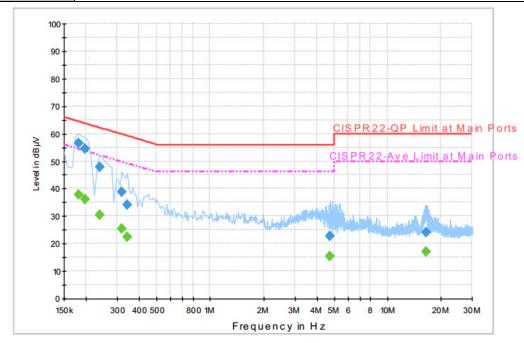
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111

: 14 of 22 Page Number Report Issued Date: May 12, 2016 Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	18~20℃				
Test Engineer :	Derreck Chen	Relative Humidity :	48~50%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB C							
Function Type :	Link with Notebook)						



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	56.6	Off	L1	19.6	7.8	64.4
0.198000	54.6	Off	L1	19.6	9.1	63.7
0.238000	47.7	Off	L1	19.6	14.5	62.2
0.318000	38.9	Off	L1	19.6	20.9	59.8
0.342000	34.1	Off	L1	19.6	25.1	59.2
4.766000	22.6	Off	L1	19.7	33.4	56.0
16.566000	24.2	Off	L1	19.8	35.8	60.0

Final Result : Average

Frequency (MHz)	Average (dΒμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	37.9	Off	L1	19.6	16.5	54.4
0.198000	36.2	Off	L1	19.6	17.5	53.7
0.238000	30.6	Off	L1	19.6	21.6	52.2
0.318000	25.3	Off	L1	19.6	24.5	49.8
0.342000	22.3	Off	L1	19.6	26.9	49.2
4.766000	15.5	Off	L1	19.7	30.5	46.0
16.566000	17.2	Off	L1	19.8	32.8	50.0

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 15 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report No.: FC611330

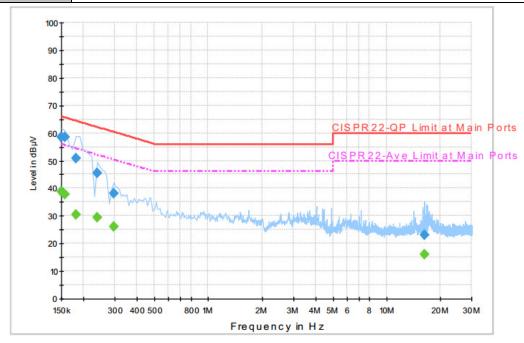
Report Template No.: BU5-FD15B Version 1.2

 Test Mode :
 Mode 2
 Temperature :
 18~20°C

 Test Engineer :
 Derreck Chen
 Relative Humidity :
 48~50%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + GPS Rx + USB Cable (Data Link with Notebook)



Final Result : Quasi-Peak

Frequency	Quasi-Peak	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	1 IIICI	Line	(dB)	(dB)	(dBµV)
0.150000	58.4	Off	N	19.6	7.6	66.0
0.158000	58.7	Off	N	19.6	6.9	65.6
0.182000	51.0	Off	N	19.6	13.4	64.4
0.238000	45.6	Off	N	19.6	16.6	62.2
0.294000	38.2	Off	N	19.6	22.2	60.4
16.422000	23.0	Off	N	19.9	37.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	38.9	Off	N	19.6	17.1	56.0
0.158000	37.8	Off	N	19.6	17.8	55.6
0.182000	30.3	Off	N	19.6	24.1	54.4
0.238000	29.5	Off	N	19.6	22.7	52.2
0.294000	26.1	Off	N	19.6	24.3	50.4
16.422000	16.1	Off	N	19.9	33.9	50.0

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 16 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

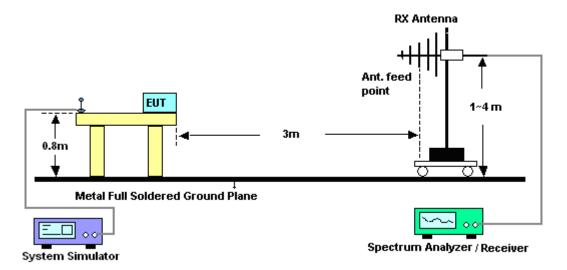
SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 17 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

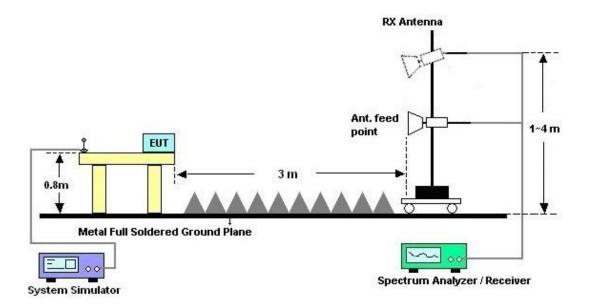
Report Template No.: BU5-FD15B Version 1.2

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



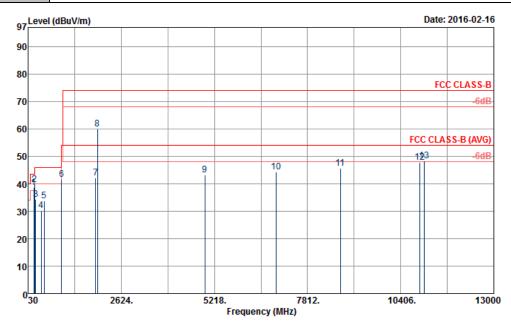
TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 18 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report No.: FC611330

Report Template No.: BU5-FD15B Version 1.2

3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 3	Temperature :	20~23°C					
Test Engineer :	Daniel Lee	Relative Humidity :	50~53%					
Test Distance :	3m	Polarization :	Horizontal					
Function Type I	WCDMA Band II Idle + Blue	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Camera + USB Cable (Dat						
Function Type :	Link with Notebook)							
Remark :	#8 is system simulator signa	l which can be ignored	l.					



Site : 03CH06-HY

Condition : FCC CLASS-B 3m 9120D_1156_150827 HORIZONTAL

Project : 6111330 Power : From System Mode : Mode 3

Mode	:	Mode 3									
			0ver	Limit	Read/	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
-	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	CM	deg	
1	184.71	38.68	-4.82	43.50	53.20	15.24	1.97	31.73			Peak
2	213.60	39.75	-3.75	43.50	53.39	16.07	2.02	31.73			Peak
3	240.06	34.44	-11.56	46.00	46.21	17.79	2.16	31.72	100	161	QP
4	394.50	30.39	-15.61	46.00	37.51	22.18	2.49	31.79			Peak
5	479.90	33.77	-12.23	46.00	39.10	23.70	2.86	31.89			Peak
6	960.10	41.56	-12.44	54.00	38.72	30.70	3.07	30.93			Peak
7	1910.00	42.19	-31.81	74.00	70.36	26.18	6.15	60.50			Peak
8	1960.00	60.06			88.02	26.23	6.31	60.50			Peak
9	4948.00	43.10	-30.90	74.00	59.65	31.42	11.17	59.14			Peak
10	6934.00	44.23	-29.77	74.00	57.63	35.13	11.78	60.31			Peak
11	8722.00	45.78	-28.22	74.00	53.97	37.25	14.35	59.79			Peak
12	10928.00	47.71	-26.29	74.00	51.58	40.44	15.00	59.31			Peak
13	11056.00	48.36	-25.64	74.00	51.70	40.46	15.21	59.01	100	0	Peak

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 19 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

#		
SPORTON LAB.	FCC Test Report	

Test Mode :	Mode 3	3			Temp	erature	:	20~2	20~23°C			
Test Engineer :	Daniel	Lee			Relati	ve Hun	nidity :	50~5	50~53%			
Test Distance :	3m				Polari	zation	:	Vertic	Vertical			
	WCDM	/IA Ban	d II Idle	+ Blue	tooth I	dle + W	/LAN Ic	lle + Ca	amera -	+ USB	Cable (Dat	
Function Type :	Link wi	ith Note	ebook)									
Remark :	#7 is s	ystem	simulat	or signa	al which	can be	e ignore	ed.				
97Lev	el (dBuV/m)									Date: 201	6-02-16	
90												
80												
										FCC CI	_ASS-B	
70											-6dB	
		7										
60									FCC	CLASS-I	B (AVG)	
50									12	3	-6dB	
	_	8	9			10	1	1	ľ			
40 3	4 6											
l l	5											
30												
20												
20												
10												
030		2624		52 ⁻	12		7812.		10406.		13000	
30		2021	•	32		ncy (MHz)			10400.		10000	
Site	:	03CH06	6-HY									
Conditio	n :	FCC CL	ASS-B 3	m 9120D	1156 1	50827 \	/ERTI <i>CA</i>	۱L				
Project		6111330										
Power	:	From S	ystem									
Mode	:	Mode 3										
			0ver	Limit					A/Pos	T/Pos		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark	
_	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg		
1	109.11	26.90	-16 60	43.50	39.41	17.20	2 02	31.73			Peak	
2	167.70			43.50		15.98	2.07	31.73			Peak	
3	240.06			46.00		17.79	2.16	31.72	153		Peak	
4	556.90		-11.26		38.51	25.08		32.02			Peak	
		31.36	-14.64		30.56	29.15	3.32	31.67			Peak	
5	857.20			54.00	32.51	30.70	3.07	30.93			Peak	
6	960.10	35.35	-18.65	31100	വര വാ	26 22		60.50			Peak	
6 7	960.10 1960.00	35.35 62.96			90.92	26.23	6.31					
6 7 8	960.10 1960.00 2072.00	35.35 62.96 45.57	-28.43	74.00	73.20	26.45	6.42	60.50			Peak	
6 7 8 9	960.10 1960.00	35.35 62.96 45.57 42.94		74.00	73.20		6.42 7.82					
6 7 8 9 10	960.10 1960.00 2072.00 3084.00	35.35 62.96 45.57 42.94 43.69	-28.43 -31.06	74.00 74.00 74.00	73.20 67.56	26.45 28.53	6.42 7.82 11.80	60.50 60.97			Peak Peak	
6 7 8 9 10 11 12 1	960.10 1960.00 2072.00 3084.00 6948.00	35.35 62.96 45.57 42.94 43.69 45.42 47.00	-28.43 -31.06 -30.31 -28.58 -27.00	74.00 74.00 74.00 74.00 74.00	73.20 67.56 57.02 53.62 50.99	26.45 28.53 35.18 37.27 40.43	6.42 7.82 11.80 14.35	60.50 60.97 60.31 59.82 59.36			Peak Peak Peak	

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 20 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 11, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Feb. 11, 2016	Aug. 25, 2016	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 20, 2015	Feb. 11, 2016	Apr. 19, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Feb. 11, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 06, 2016	Feb. 11, 2016	Jan. 05, 2017	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	Feb. 11, 2016	Jan. 07, 2017	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C	2725	30MHz~1GHz	Nov. 17, 2015	Feb. 15, 2016 ~ Feb. 16, 2016	Nov. 16, 2016	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 07, 2016	Feb. 15, 2016 ~ Feb. 16, 2016	Jan. 06, 2017	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 21, 2015	Feb. 15, 2016 ~ Feb. 16, 2016	Aug. 20, 2016	Radiation (03CH06-HY)
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	Apr. 20, 2015	Feb. 15, 2016 ~ Feb. 16, 2016	Apr. 19, 2016	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	Jul. 01, 2015	Feb. 15, 2016 ~ Feb. 16, 2016	Jun. 30, 2016	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Feb. 15, 2016 ~ Feb. 16, 2016	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF78020821 2	1m~4m	N/A	Feb. 15, 2016 ~ Feb. 16, 2016	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Feb. 15, 2016 ~ Feb. 16, 2016	N/A	Radiation (03CH06-HY)

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 21 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01
Report Template No.: BU5-FD15B Version 1.2

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of	2.70
Confidence of 95% (U = 2Uc(y))	2.70

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

Measuring Uncertainty for a Level of	4.00
Confidence of 95% (U = 2Uc(y))	4.00

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: 2AB2S-IAM1111 Page Number : 22 of 22
Report Issued Date : May 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 1.2