

Report No. : FC2N2401

# **FCC Test Report**

APPLICANT : CT Asia

EQUIPMENT : GSM850/1900 WCDMA850/1900 BT/WIFI Mobile Phone

BRAND NAME : BLU

MODEL NAME : Dash3.2

FCC ID : YHLBLUDASH32

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION**: Certification

The product was received on Nov. 24, 2012 and completely tested on Nov. 30, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.



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**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC2N2401	Rev. 01	Initial issue of report	Dec. 17, 2012

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**SUMMARY OF TEST RESULT** 

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark	
3.1	15.107	7.2.4	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 3.94 dB at	
				< 15.109 limits or		0.460 MHz Under limit	
3.2	15.109	7.2.3.2	Radiated Emission < RSS-Gen table 1 limits (Section 6)		Radiated Emission	PASS	7.56 dB at 37.760 MHz

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## 1. General Description

### 1.1. Applicant

**CT Asia** 

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

#### 1.2. Manufacturer

Gionee Communication Equipment Co., Ltd.

21/F, Times Technology Building, No.7028, Shennan Avenue, Futian District, Shenzhen, China

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## 1.3. Feature of Equipment Under Test

	Product Feature
Equipment	GSM850/1900 WCDMA850/1900 BT/WIFI Mobile Phone
Brand Name	BLU
Model Name	Dash3.2
FCC ID	YHLBLUDASH32
EUT supports Radios application	GSM/GPRS/WCDMA/HSDPA/WLAN 11bgn/Bluetooth
HW Version	DASH 3.2_MAINBOARD_P4
SW Version	DASH 3.2_0401_V1418
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.

or user's manual for more detailed description.							
Product Specific	Product Specification subjective to this standard						
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz 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						
Rx Frequency Range	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz FM: 88 MHz ~ 108 MHz						
Antenna Type	WWAN : Fixed Internal Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna						
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) 802.11b: DSSS (BPSK / QPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth 3.0 BDR (1Mbps): GFSK Bluetooth 3.0 EDR (2Mbps): π /4-DQPSK Bluetooth 3.0 EDR (3Mbps): 8-DPSK FM						

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1.4. Test Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.			
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.			
Test Site Location	TEL: +86-0512-5790-0158			
	FAX: +86-0512-5790-0958			
Took Cita No	Sporton Site No.		FCC/IC Registration No.	
Test Site No.	CO01-KS	03CH01-KS	149928/4086E-1	

### 1.5. Applied 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 C63.4-2003
- · IC RSS-Gen Issue 3

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

### 1.6. Ancillary Equipment List

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.	Signal Generator	R&S	SMR40	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
3.	PC	Dell	MT320	FCC DoC	N/A	Unshielded, 1.8 m
4.	PC	Dell	DCSM	FCC DoC	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
7.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
8.	Monitor	Dell	E1910Hc	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
9.	(USB) Keyboard	Dell	SK-8115	FCC DoC	Shielded, 1.5 m	N/A
10.	(USB) Mouse	Dell	N231	FCC DoC	Shielded, 1.8 m	N/A
11.	(USB) Mouse	Dell	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
12.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m
13.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A

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## 2. Test Configuration of Equipment Under Test

#### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 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	
			RE<1G	RE≥1G	
1.	Charging Mode (EUT with adapter)	$\boxtimes$	$\boxtimes$	Note 1	
2.	Data application transferred mode (EUT with PC)	$\boxtimes$	$\boxtimes$	$\boxtimes$	

#### Abbreviations:

EMI AC: AC conducted emissions

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

EMI RE < 1G: EUT radiated emissions < 1GHz</li>

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 2.

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Test Items	EUT Configure Mode	Function Type
	1/2	Mode 1: GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + Camera + SIM 1 <fig. 1=""></fig.>
AC Conducted		Mode 2: GSM1900 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + MPEG4 + SIM 1 <fig. 1=""></fig.>
Emission		Mode 3: WCDMA Band V Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + FM Rx + SIM 1 <fig. 2=""></fig.>
		Mode 4: WCDMA Band II Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Earphone + SIM 1 <fig. 3=""></fig.>
	1/2	Mode 1: GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + Camera + SIM 1 <fig. 1=""></fig.>
Radiated Emissions < 1GHz		Mode 2: GSM1900 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + MPEG4 + SIM 1 <fig. 1=""></fig.>
EIIIISSIOIIS > I GI IZ		Mode 3: WCDMA Band V Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle + Earphone + FM Rx + SIM 1 <fig. 2=""></fig.>
		Mode 4: WCDMA Band II Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Earphone + SIM 1 <fig. 3=""></fig.>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band II Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Idle + Earphone + SIM 1 <fig. 3=""></fig.>

#### Remark:

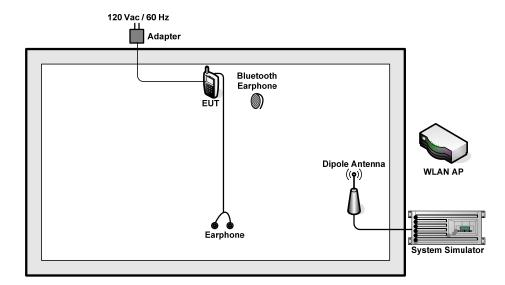
- 1. The worst case of AC Conducted Emission is mode 1; the test data of this mode was reported.
- 2. The USB Link mode of AC Conducted Emission is mode 4; the test data of this mode was also reported.
- 3. The worst case of Radiated Emissions is mode 4; only the test data of this mode was reported.
- 4. Link with PC means data application transferred mode between EUT and PC.

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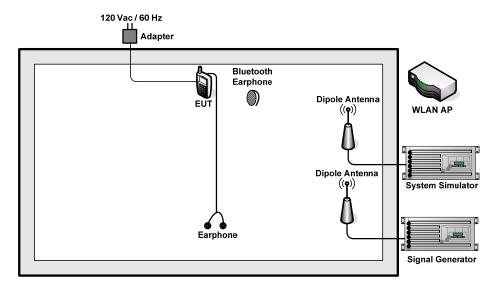


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## 2.2. Connection Diagram of Test System



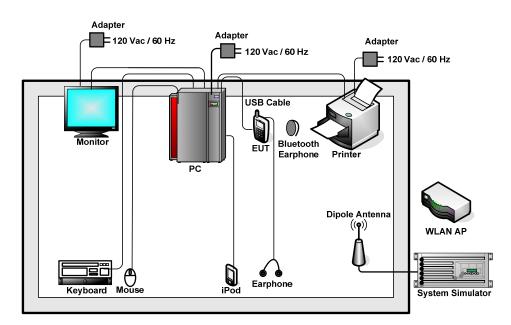
<Fig. 1>



<Fig. 2>

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<Fig. 3>

#### 2.3. Test Software

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. Execute the program, "Winthrax" under WIN 7 installed in PC for files transfer with EUT via USB cable.
- 2. Turn on FM function to keep EUT receiving continuous signals from Signal Generator.
- 3. Execute "Windows Media Player" to play MPEG4 files.
- 4. Turn on camera to capture images.

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#### 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

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 3.1.2 Measuring Instruments

See list of measuring instruments 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 with Maximum Hold Mode.

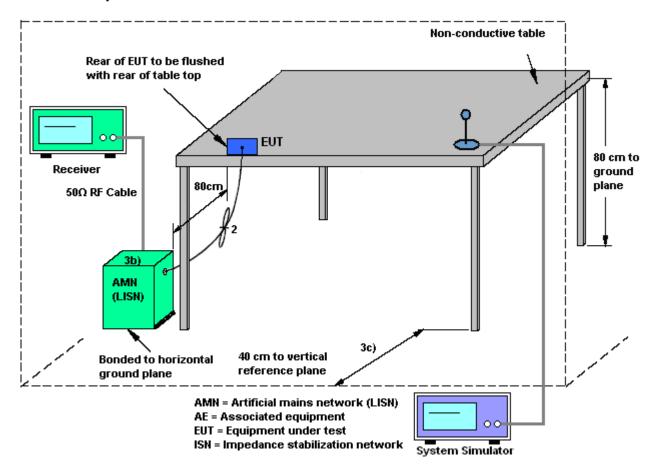
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#### 3.1.4 Test Setup



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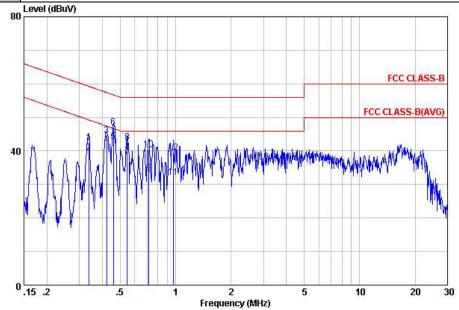
3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	19~20℃
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :			er) + WLAN Idle + Bluetooth Idle
	+ Earphone + Camera + SIN	M 1	
Remark :	All emissions not reported h	ere are more than 10 o	dB below the prescribed limit.
80	Level (dBuV)		
			FCC CLASS-B
1.8			FCC CLASS-B(AVG)
	10		A COUNTY OF THE PARTY OF THE PA
40	12 M M A LA MARIANA MAK	will the paper of the same with the same of the same o	and the same of th
n		11	N. T.
3,	.15 .2 .5 1	2 5 Frequency (MHz)	10 20 30
Condition Project	: COO1-KS :: FCC CLASS-B LISN-111230 LINE : (FC) 2N2401 : Mode 1		
	Over Limit Freq Level Limit Line		Remark
S	MHz dBuV dB dBuV	dBuV dB dB	
1 2 3 4 5 6 7 8 9 10	0.17 43.54 -21.67 65.21 0.17 34.74 -20.47 55.21 0.25 29.16 -22.62 51.78 0.25 38.16 -23.62 61.78 0.33 32.97 -16.38 49.35 0.33 38.17 -21.18 59.35 0.42 32.77 -14.65 47.42 0.46 36.17 -10.59 46.76 0.46 40.67 -16.09 56.76 1.67 24.49 -21.51 46.00	28.00 -0.07 10.23 (22.81 -0.08 10.24 (28.01 -0.08 10.25 (22.60 -0.08 10.25 (26.00 -0.08 10.25 (26.00 -0.08 10.25 (30.50 -0.08 (30.50 -0.08 (30.50 -0.08 (30.50 -0.08 (30.50 -0.08 (30.50 -0.08 (30.50 -0.08 (30.50 -0.08 (30.5	Average OP Average OP Average OP Average OP

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Test Mode :	Mode 1	Temperature :	19~20℃	
Test Engineer :	Tom Wang	Relative Humidity :	39~40%	
Test Voltage :	120Vac / 60Hz	Phase :	Neutral	
Function Tune	GSM850 Idle + USB Cable (Charging from Adapter) + WLAN Idle + Bluetooth Idle			
Function Type :	+ Earphone + Camera + SIM 1			
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.			
or	Level (dBuV)			



Site : C001-KS Condition: FCC CLASS-B LISN-111230 NEUTRAL Project : (FC) 2N2401

mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	<del>dB</del>	dBuV	dBu₹	dB	dB	
1	0.34	42.37	-16.90	59.27	32.20	-0.08	10.25	QP
2	0.34	39.47	-9.80	49.27	29.30	-0.08	10.25	Average
3	0.42	44.57	-12.85	57.42	34.40	-0.08	10.25	OP
2 3 4 5 6 7	0.42	41.97	-5.45	47.42	31.80	-0.08	10.25	Average
5	0.46	42.77	-3.94	46.71	32.60	-0.08		Average
6	0.46	46.97	-9.74	56.71	36.80	-0.08	10.25	
7	0.55	38.38	-7.62	46.00	28.20	-0.08	10.26	Average
8	0.55	42.48	-13.52	56.00	32.30	-0.08		OP
8	0.72	33.19	-12.81	46.00	23.00	-0.08	10.27	Average
10	0.72		-15.61	56.00	30.20	-0.08		OP
11	0.97	31.99	-14.01	46.00	21.80	-0.09	10.28	Average
12	0.97		-16.61	56.00	29.20	-0.09	10.28	

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 Test Mode :
 Mode 4
 Temperature :
 19~20°C

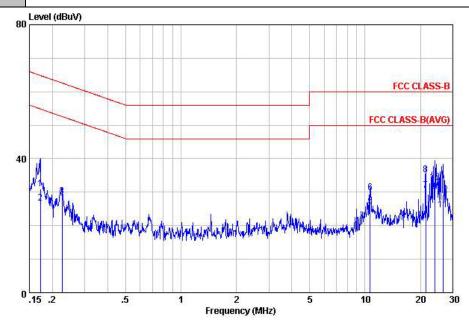
 Test Engineer :
 Tom Wang
 Relative Humidity :
 39~40%

Test Voltage: | 120Vac / 60Hz | Phase: | Line

WCDMA Band II Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth

Idle + Earphone + SIM 1

**Remark:** All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COO1-KS

Condition: FCC CLASS-B LISN-111230 LINE

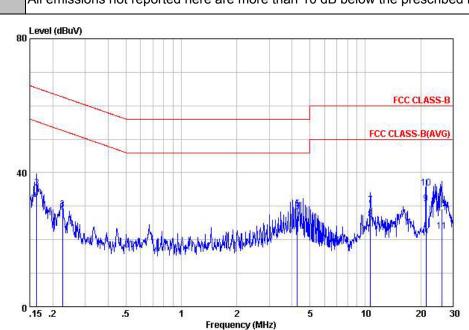
Project : (FC) 2N2401 mode : Mode 4

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	
1 2 3 4 5 6 7 8 9	0.17	31.04	-33.82	64.86	20.90	-0.07	10.21	QP
2	0.17	26.64	-28.22	54.86	16.50	-0.07	10.21	Average
3	0.23	28.85	-33.76	62.61	18.70	-0.07	10.22	OP
4	0.23	27.95	-24.66	52.61	17.80	-0.07	10.22	Average
5	10.68	25.86	-24.14	50.00	15.60	-0.10	10.36	Average
6	10.68	29.86	-30.14	60.00	19.60	-0.10	10.36	
7	21.37	30.60	-19.40	50.00	20.00	0.09	10.51	Average
8	21.37	35.30	-24.70	60.00	24.70	0.09	10.51	
9	24.01	30.16	-19.84	50.00	19.50	0.15	10.51	Average
.0	24.01	32.96	-27.04	60.00	22.30	0.15	10.51	
1	26.56	24.74	-25.26	50.00	14.00	0.21		Average
12	26.56	29.24	-30.76	60.00	18.50	0.21	10.53	

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19~20℃ Test Mode: Mode 4 Temperature: **Relative Humidity:** 39~40% Test Engineer: Tom Wang Phase: Test Voltage: 120Vac / 60Hz Neutral WCDMA Band II Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Function Type: Idle + Earphone + SIM 1 Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



: C001-KS Site

Condition: FCC CLASS-B LISM-111230 NEUTRAL Project : (FC) 2N2401

mode : Mode 4

LISN Cable Limit Read Over Level Factor Freq Level Limit Loss Remark dBuV dBuV dB 30.83 -24.47 35.43 -29.87 29.05 -33.56 27.95 -24.66 29.30 -26.70 28.40 -17.60 30.36 -29.64 26.06 -23.94 30.70 -19.30 35.40 -24.60 22.52 -27.48 29.12 -30.88 -0.08 -0.08 -0.07 -0.13 -0.13 -0.12 -0.12 0.07 0.07 0.16 10.20 Average 10.20 QP 10.22 QP 10.22 Average 10.33 QP 10.33 Average 10.36 QP 10.36 Average 55.30 65.30 62.61 52.61 56.00 46.00 60.00 20.71 25.31 18.90 17.80 19.10 18.20 20.12 15.82 20.12 24.82 11.84 18.44 1 2 3 4 5 6 7 8 9 10 11 0.16 0.23 0.23 4.27 4.27 10.68 10.68 21.37 21.37 26.00 10.56 Average 10.51 Average 10.51 QP 10.52 Average 10.52 QP 50.00 60.00 50.00

60.00

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

#### 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 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 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.
- 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 (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level

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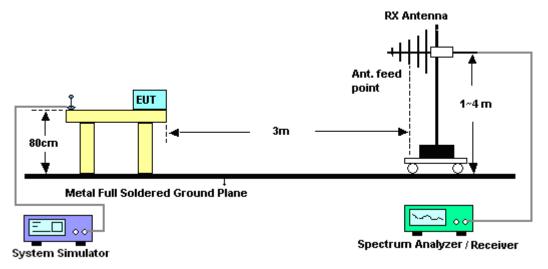
Report No.: FC2N2401



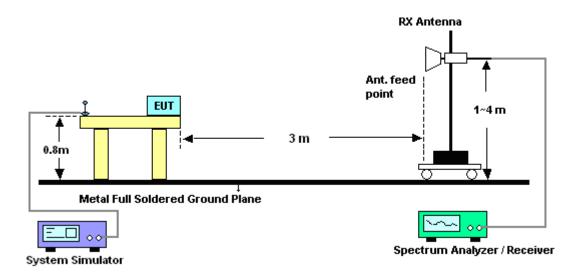
Report No.: FC2N2401

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz



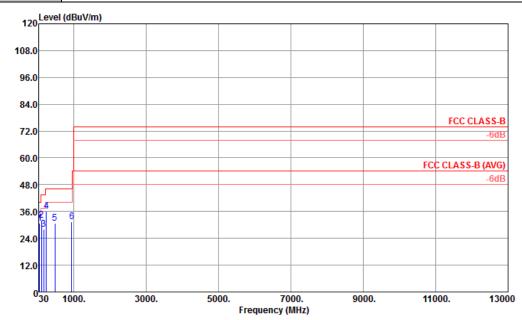
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3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	21~22°C				
Test Engineer :	Allen Cheng	Relative Humidity :	46~47%				
Test Distance :	3m	Polarization :	Horizontal				
Eunation Type I	WCDMA Band II Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth						
Function Type :	Idle + Earphone + SIM 1						



Site : 03CH01-KS

Condition : FCC CLASS-B 3m LF\_ANT\_100803 HORIZONTAL

Mode : mode 4

			0	12.24	D4/		C-1-1-	D	A /D	T/D	
	Freq	Level		Limit Line						1/FOS	Remark
	MHz	$\overline{dBuV/m}$	dB	$\overline{\tt dBuV/m}$	dBuV	dB/m	dB	₫B	cm	deg	
1	53. 28	30.70	-9.30	40.00	57.03	6.80	0.45	33.58	100	254	
2	106.63	32.06	-11.44	43.50	53.65	11.43	0.59	33.61			Peak
3	167.74	28. 20	-15.30	43.50	51.74	9.27	0.76	33.57			Peak
4	245.34	36. 18	-9.82	46.00	56.93	11.79	0.91	33.45			Peak
5	480.08	30, 84	-15.16	46,00	45, 85	16.87	1.28	33, 16			Peak
6	942.77	31. 38	-14.62	46.00	41.37	20.70	1.75	32.44			Peak

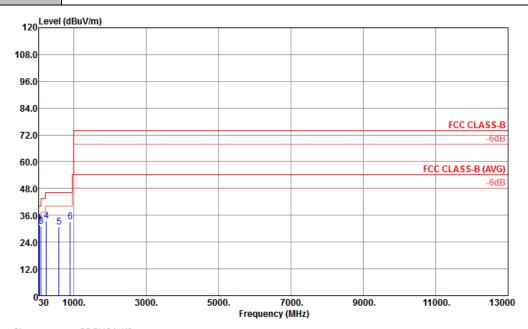
SPORTON INTERNATIONAL (KUNSHAN) INC.

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21~22°C Test Mode: Mode 4 Temperature: Relative Humidity: 46~47% Test Engineer: Allen Cheng Polarization: Test Distance : 3m Vertical

WCDMA Band II Idle + USB Cable (Data Link with PC) + WLAN Idle + Bluetooth Function Type: Idle + Earphone + SIM 1



: 03CH01-KS Site

Condition : FCC CLASS-B 3m LF\_ANT\_100803 VERTICAL

Mode : mode 4

	Freq	Level		Limit Line						T/Pos	Remark
	MHz	$\overline{dBuV/m}$	dB	$\overline{dBuV/m}$	dBuV	dB/m	dB	dB	cm	deg	
1	37.76	32. 44	-7.56	40.00	51.99	13.70	0.38	33.63	120	154	Peak
2		31.90	-8. 10	40.00	55.08	10.03	0.41	33.62			
3	98, 87	31. 18	-12.32	43, 50	53, 89	10, 33	0, 58	33, 62			Peak
4	239. 52	33.59	-12.41	46.00	54.64	11.51	0.90	33.46			Peak
5	594, 54	30, 78	-15.22	46,00	43, 76	18, 59	1.39	32, 96			Peak
6	901.06	33.03	-12.97	46.00	43.24	20.45	1.77	32.43			Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 01, 2012	Nov. 29, 2012	May 31, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 30, 2011	Nov. 29, 2012	Dec. 29, 2012	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Dec. 30, 2011	Nov. 29, 2012	Dec. 29, 2012	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	N/A	Nov. 15, 2012	Nov. 29, 2012	Nov. 14, 2013	Conduction (CO01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Nov. 29, 2012	Dec. 29, 2012	Conduction (CO01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Dec. 30, 2011	Nov. 29, 2012	Dec. 29, 2012	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Nov. 30, 2012	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Nov. 30, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Nov. 30, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Nov. 30, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	Nov. 30, 2012	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Nov. 30, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Dec. 30, 2011	Nov. 30, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Nov. 30, 2012	Dec. 29, 2012	Radiation (03CH01-KS)

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FCC Test Report

## 5. Uncertainty of Evaluation

#### <u>Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of	2.26
Confidence of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of	2.54
Confidence of 95% (U = 2Uc(y))	2.04

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

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

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# Appendix A. Photographs of EUT

Please refer to Sporton report number EP2N2401 as below.

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