# **FCC Test Report**

APPLICANT : CT Asia

**EQUIPMENT**: Mobile phone

BRAND NAME : BLU

MODEL NAME : Sport 4.5

FCC ID : YHLBLUSPORT45

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

**CLASSIFICATION**: Certification

The product was received on Jul. 30, 2014 and testing was completed on Aug. 14, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2003 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Louis Wu

Approved by: Jones Tsai / Manager

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

 SPORTON INTERNATIONAL (KUNSHAN) INC.
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 TEL: 86-0512-5790-0158
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FAX: 86-0512-5790-0958 FCC ID: YHLBLUSPORT45 Page Number : 1 of 22
Report Issued Date : Sep. 17, 2014

**Report No. : FC473002** 

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### **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC473002	Rev. 01	Initial issue of report	Sep. 17, 2014

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### **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	13.39 dB at
					0.480 MHz
					Under limit
3.2	15.109	109 Radiated Emission	< 15.109 limits	PASS	6.49 dB at
					480.080 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

#### **Ragentek Technology Group**

Building D10-D11, No. 58-60, Lane 3188, Xiupu Road, PuDong District, Shanghai, P.R.C.

### 1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile phone
Brand Name	BLU
Model Name	Sport 4.5
FCC ID	YHLBLUSPORT45
	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only)
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20
	Bluetooth v3.0+EDR/Bluetooth v4.0 LE
HW Version	v1.0
SW Version	BLU_S430_V07_GENERIC
EUT Stage	Pre-Production

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. Product Specification subjective to this standard

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 IV: 1712.4 MHz ~ 1752.6 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	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 IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz WCDMA Band II: 4932.4 MHz ~ 1987.6 MHz Bluetooth: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz				
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS: PIFA Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): \pi /4-DQPSK Bluetooth (3Mbps): 8-DPSK GPS: BPSK				

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#### 1.5. Modification of EUT

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

#### 1.6. Test Location

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 Registration No.			
Test Site No.	CO01-KS 03CH01-KS		149928			

### 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 C63.4-2003

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

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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.

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

#### 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 2.

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Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1
AC Conducted Emission	1/2	<pre><fig.1> Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable     (Charging from Adapter) + Earphone + MPEG4 + SIM1</fig.1></pre>
		<fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1.
	1/2	<fig.1></fig.1>
Radiated Emissions < 1GHz		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1
		<fig.1></fig.1>
		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>

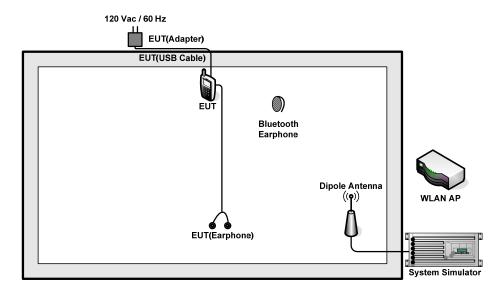
#### Remark:

- 1. The worst case of AC is mode 3; 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. Link with Notebook means data application transferred mode between EUT and Notebook.

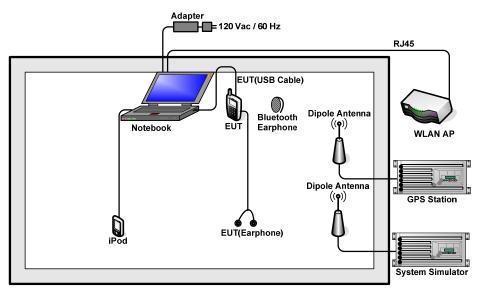
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## 2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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## 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.	GPS Station	Adivic	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
5.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
6.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 0.9 m DC O/P: Shielded, 1.8 m
7.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A

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### 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 was 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 Notebook and EUT via USB cable.
- 2. Turn on GPS function 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.

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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

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

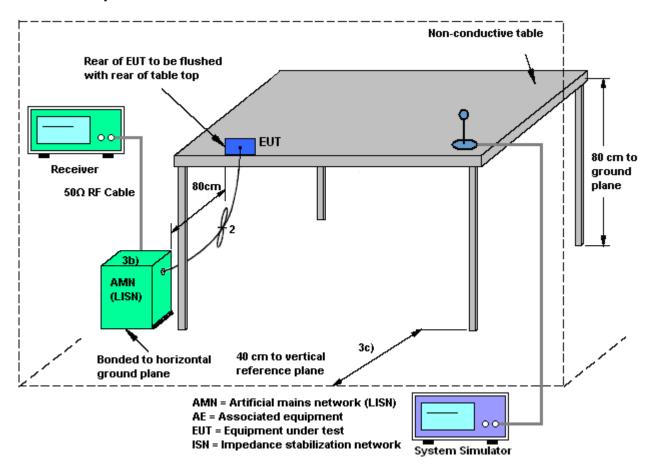
#### 3.1.3 Test Procedure

- 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.

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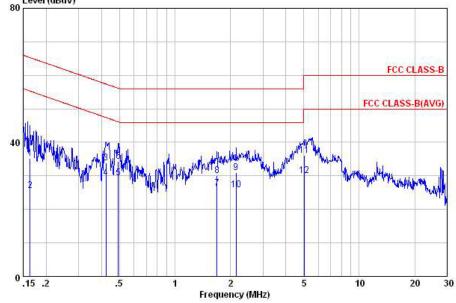
#### 3.1.4 Test Setup



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#### 3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 3	Temperature :	<b>22~24</b> ℃
Test Engineer :	Eligah Wang	Relative Humidity :	45~47%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band V Idle + Blue Notebook) + Earphone + GF		le + USB Cable (Data Link with
80	Level (dBuV)		



Site : C001-KS

Condition: FCC CLASS-B LISN-L20130306 LINE Project : (FC) 473002 mode : Mode 3

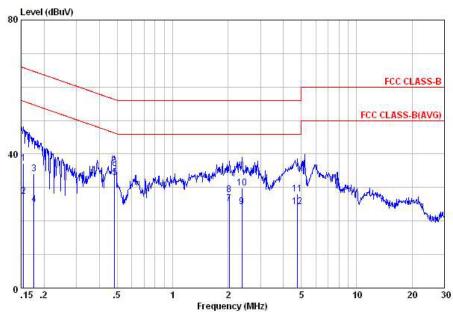
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
100	MHz	dBuV	dB	dBuV	dBuV	dB	dB	ģ.
1	0.16	35.28	-30.02	65.30	22.90	1.72	10.66	QP
2	0.16	25.68	-29.62	55.30	13.30	1.72	10.66	Average
3	0.42	33.86	-23.56	57.42	23.30	0.28	10.28	QP
4	0.42	29.46	-17.96	47.42	18.90	0.28	10.28	Average
5	0.49	29.37	-16.77	46.14	18.89	0.21	10.27	Average
6	0.49	34.27	-21.87	56.14	23.79	0.21	10.27	QP
2 3 4 5 6 7 8 9	1.69	26.19	-19.81	46.00	15.90	0.10	10.19	Average
8	1.69	30.19	-25.81	56.00	19.90	0.10	10.19	QP
9	2.14	30.90	-25.10	56.00	20.61	0.10	10.19	QP
10	2.14	25.90	-20.10	46.00	15.61	0.10	10.19	Average
11	5.03	36.06	-23.94	60.00	25.60	0.20	10.26	
12	5.03	30.06	-19.94	50.00	19.60	0.20		Average

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Test Mode :	Mode 3	Temperature :	<b>22~24</b> ℃				
Test Engineer :	Eligah Wang	Relative Humidity :	45~47%				
Test Voltage :	120Vac / 60Hz	Phase :	Neutral				
WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Lin							
Function Type :	Notebook) + Earphone + GPS Rx + SIM1						
	and (dDate)						



: C001-KS

Condition: FCC CLASS-B LISN-N20130306 NEUTRAL Project : (FC) 473002

: Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
95	MHz	dBuV	- dB	dBu∀	dBuV	dB	dB	
1	0.15	37.12	-28.62	65.74	24.60	1.83	10.69	QP
2	0.15	27.42	-28.32	55.74	14.90	1.83	10.69	Average
3	0.18	34.11	-30.57	64.68	22.10	1.38	10.63	QP
1 2 3 4 5 6 7 8 9	0.18	24.91	-29.77	54.68	12.90	1.38	10.63	Average
5	0.48	32.88	-13.39	46.27	22.30	0.31		Average
6	0.48	35.68	-20.59	56.27	25.10	0.31	10.27	QP
7	2.03	25.19	-20.81	46.00	14.90	0.10	10.19	Average
8	2.03	27.89	-28.11	56.00	17.60	0.10	10.19	
9	2.38	24.21	-21.79	46.00	13.90	0.11	10.20	Average
10	2.38	29.91	-26.09	56.00	19.60	0.11	10.20	
11	4.77	28.05	-27.95	56.00	17.60	0.20	10.25	QP
12	4.77	24.35	-21.65	46.00	13.90	0.20		Average

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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	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.
- 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

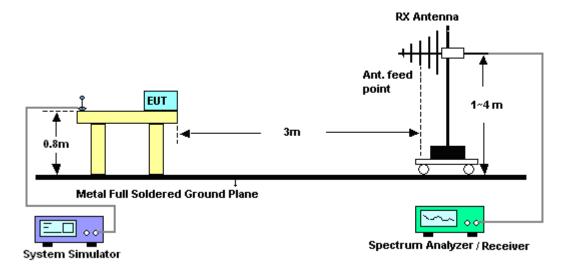
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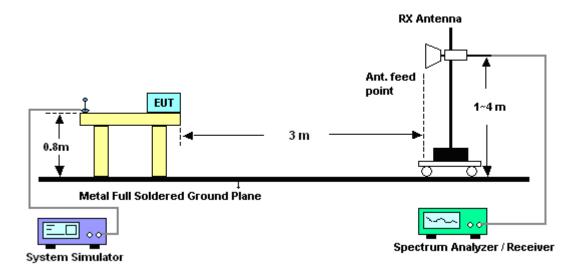
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## 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz

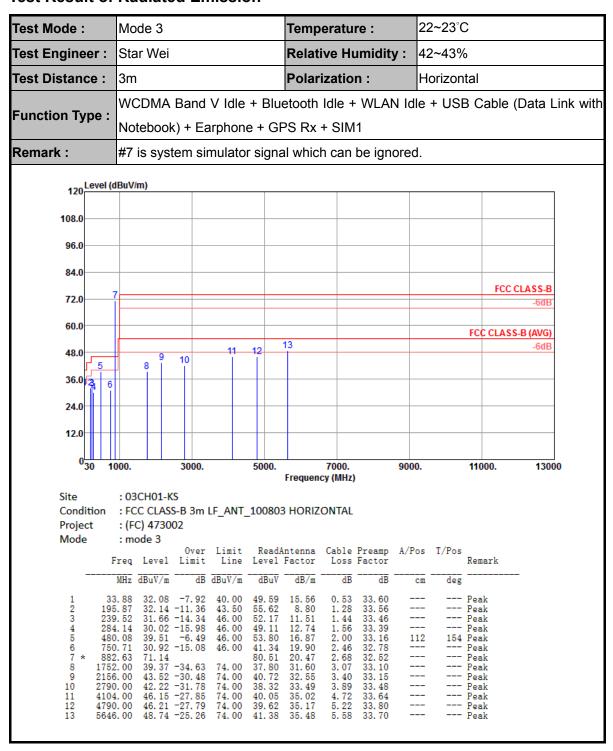


#### For radiated emissions above 1GHz



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#### 3.2.5. Test Result of Radiated Emission



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Test Mode :	Mode 3				Temp	eratur	e :	22	22~23°C			
Test Engineer :	Star Wei				Relative Humidity:			<b>'</b> : 42	42~43%			
Test Distance :	3m				Polari	zatior	n :	Ve	Vertical			
Function Type :	WCDMA Notebook							I Idle -	le + USB Cable (Data Link v			
Remark :	#7 is syst	em sin	nulator	signa	ıl which	n can I	be igno	ored.				
120 Level (	dBuV/m)											1
108.0												
96.0												
84.0												
72.0											FCC CLASS-B	
60.0	7									FCC	CLASS-B (AVG)	
48.0	8 9	10	12		13						-6dB	
36.0												
24.0												
12.0										$\perp$		
0 <mark>30 1</mark>	000.	3000.		5000.		7000.		9000.		1100	00. 130	_ 00
	0361104	·c			Frequen	cy (MHz)						
Site Condition	: 03CH01-K		F_ANT	100803	3 VERTIO	CAL						
Project	: (FC) 4730	02										
Mode	: mode 3 Freq Level		Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Rema	rk	
	MHz dBuV/m	<u>dB</u>	dBuV/m	dBuV	$-\overline{dB/m}$	dB	<u>dB</u>	cm	deg			
2 12 3 19 4 29 5 48 6 56 7 * 88 8 159 9 215 10 271 11 341 12 410	8. 94 29. 94 2. 96 30. 23 9. 66 29. 46 0. 08 32. 42 4. 47 34. 40 2. 63 61. 37 4. 00 42. 17	-13. 27 -16. 54 -13. 58 -11. 60 -31. 83 -30. 09 -30. 14 -26. 42 -26. 14	43. 50 43. 50 46. 00 46. 00 74. 00 74. 00 74. 00 74. 00 74. 00	50. 78 53. 88 48. 24 46. 71 70. 74 41. 40 41. 11 40. 05 42. 66 41. 76	11. 71 8. 64 13. 00 16. 87 18. 52 20. 47 30. 94 32. 55 33. 41 34. 19 35. 02	1. 04 1. 27 1. 60 2. 00 2. 17 2. 68 2. 93 3. 40 3. 82 4. 42 4. 72	33. 62 33. 59 33. 56 33. 38 33. 16 33. 00 32. 52 33. 10 33. 15 33. 42 33. 69 33. 64 33. 70	100     		Peak Peak Peak Peak Peak Peak Peak 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;	May 04, 2014	Aug. 14, 2014	May 03, 2015	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Dec. 10, 2013	Aug. 14, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Dec. 10, 2013	Aug. 14, 2014	Dec. 09, 2014	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Nov. 12, 2013	Aug. 14, 2014	Nov. 11, 2014	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	Aug. 14, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Aug. 14, 2014	May 03, 2015	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 08, 2014	Aug. 14, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 08, 2014	Aug. 14, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	Aug. 14, 2014	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Dec. 10, 2013	Aug. 14, 2014	Dec. 09, 2014	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 14, 2014	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Aug. 14, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Aug. 14, 2014	NCR	Radiation (03CH01-KS)

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## 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.2
Confidence of 95% (U = 2Uc(y))	2.3

#### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	2.5
Confidence of 95% (U=2Uc(y))	2.5

SPORTON INTERNATIONAL (KUNSHAN) INC.

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