FCC Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : STUDIO 5.5 HD

FCC ID : YHLBLUSTUD55HD

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Jan. 08, 2016 and testing was completed on Jan. 21, 2016. 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 C63.4-2014 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Prepared by: James Huang / Manager

James Huang

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUSTUD55HD Page Number : 1 of 25
Report Issued Date : Mar. 01, 2016
Report Version : Rev. 01

Report No.: FC610801

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC610801	Rev. 01	Initial issue of report	Mar. 01, 2016

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	ICES003 Section 6.1	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 9.65 dB at 0.170 MHz
3.2	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.10 dB at 720.000 MHz for Quasi-Peak

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1. General Description

1.1. Applicant

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.2. Manufacturer

BLU Products, Inc.

10814 NW 33rd St # 100 Doral, FL 33172

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	STUDIO 5.5 HD
FCC ID	YHLBLUSTUD55HD
EUT supports Radios application	GSM/GPRS/ WCDMA/HSPA/HSPA+(16QAM uplink is not supported) WLAN2.4GHz 802.11b/g/n HT20 Bluetooth v3.0+EDR
IMEI Code	Radiation: 866689027958878/866689027959678 Conduction: 866689027958936/866689027959736
HW Version	SW1511_MB_PCB_V1.0
SW Version	BLU_S150U_V03_GENERIC
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.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification				
Otandards	GSM850: 824.2 MHz ~ 848.8 MHz			
	GSM1900: 024.2 MHz ~ 046.6 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz			
	WCDMA Band V: 826.4 MHz ~ 846.6 MHz			
Tx Frequency	WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz			
TX Frequency	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			
	WCDMA Band IV: 271.4 MHz ~ 691.6 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 : IFA Antenna			
Antenna Type	WLAN : IFA Antenna			
7	Bluetooth : IFA Antenna			
	GSM: GMSK			
	GPRS: GMSK			
	WCDMA: QPSK (Uplink)			
	HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)			
Torres of Mandadadas	HSPA+ : (16QAM uplink is not supported)			
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK)			
	802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)			
	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 (KUNSHAN) INC.

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1.6. Test Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Test Site No.	Sportor	FCC/IC Registration No.				
Test Site NO.	CO01-KS	03CH03-KS	306251/4086E			

Note: The test site complies with ANSI C63.4 2014 requirement.

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
- IC ICES-003 Issue 5
- IC RSS-Gen Issue 4

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The test results for FCC compliance, indicating that these results are deemed satisfactory evidence of compliance with Industry Canada Interference-Causing Equipment Standard ICES-003.

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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 C63.4-2014 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		
		AC	RE<1G	RE≥1G		
1.	Charging Mode (EUT with adapter)	\boxtimes	\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 2.

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Test Items	EUT Configure Mode	Function Type
	1/2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) + SIM1 <fig.1></fig.1>
AC Conducted		Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2 <fig.1></fig.1>
Emission		Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
		Mode 4: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Back) + SIM2 <fig.1></fig.1>
	1/2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) + SIM1 <fig.1></fig.1>
Radiated		Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM2 <fig.1></fig.1>
Emissions < 1GHz		Mode 3: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>
		Mode 4: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Back) + SIM2 <fig.1></fig.1>
Radiated Emissions ≥ 1GHz	2	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM1 <fig.2></fig.2>

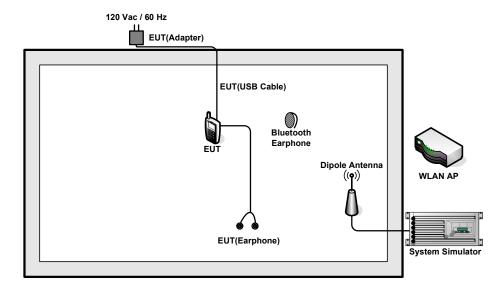
Remark:

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

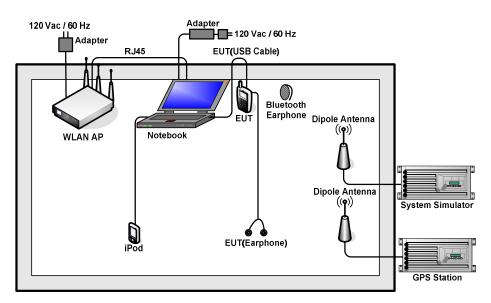
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2.2. Connection Diagram of Test System



<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.	Base Station	Anritsu	MT8820C	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-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m with Core
5.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
7.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
8.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2 m	N/A
9.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A
10.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	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 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 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		

^{*}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.

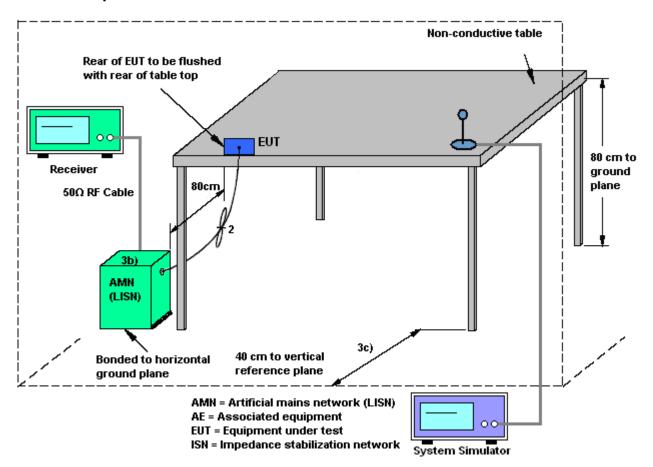
3.1.3 Test Procedure

- 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.

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3.1.4 Test Setup

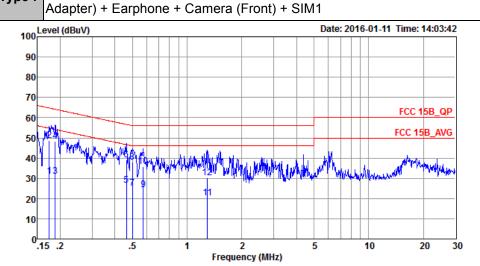


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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃		
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type :	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from				



Condition: FCC 15B_QP LISN_L_20150304 LINE

Project : (FC)610801 Mode : Mode 1

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBuV	dB	dB	
1	0.17	31.10	-23.67	54.77	20.29	0.48	10.33	Average
2	0.17	48.80	-15.97	64.77	37.99	0.48	10.33	QP
3	0.19	31.01	-23.14	54.15	20.20	0.50	10.31	Average
4 .	0.19	48.41	-15.74	64.15	37.60	0.50	10.31	QP
5	0.46	26.49	-20.14	46.63	15.70	0.63	10.16	Average
6	0.46	39.09	-17.54	56.63	28.30	0.63	10.16	QP
7	0.50	25.03	-20.98	46.01	14.20	0.67	10.16	Average
8	0.50	38.13	-17.88	56.01	27.30	0.67	10.16	QP
9	0.57	24.27	-21.73	46.00	13.50	0.62	10.15	Average
10	0.57	35.87	-20.13	56.00	25.10	0.62	10.15	QP
11	1.30	20.16	-25.84	46.00	9.51	0.49	10.16	Average
12	1.30	30.36	-25.64	56.00	19.71	0.49	10.16	QP

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Test Mode :	Mode 1	Temperature :	21~23℃			
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%			
Test Voltage :	120Vac / 60Hz	Phase :	Neutral			
Function Type	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from					
Function Type: Adapter) + Earphone + Camera (Front) + SIM1						

100 Level (dBuV) Date: 2016-01-11 Time: 13:57:57 90 80 FCC 15B_QP FCC 15B_AVG 40 30 20 0.15 .2 2 10 20 30 Frequency (MHz)

Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL

Project : (FC)610801 Mode : Mode 1

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∇	dBu∇	dB	dB	
1	0.15	37.21	-18.66	55.87	26.40	0.45	10.36	Average
2	0.15	51.21	-14.66	65.87	40.40	0.45	10.36	
3	0.17	37.71	-17.45	55.16	26.90	0.47	10.34	Average
4 *	0.17	55.51	-9.65	65.16	44.70	0.47	10.34	QP
5	0.19	36.60	-17.55	54.15	25.79	0.50	10.31	Average
6	0.19	54.00	-10.15	64.15	43.19	0.50	10.31	QP
7	0.21	30.20	-23.16	53.36	19.39	0.52	10.29	Average
8	0.21	46.10	-17.26	63.36	35.29	0.52	10.29	QP
9	0.23	29.30	-23.18	52.48	18.50	0.54	10.26	Average
10	0.23	45.80	-16.68	62.48	35.00	0.54	10.26	QP
11	0.25	26.10	-25.50	51.60	15.30	0.56	10.24	Average
12	0.25	42.80	-18.80	61.60	32.00	0.56	10.24	QP
13	0.28	24.89	-25.87	50.76	14.10	0.58	10.21	Average
14	0.28	40.49	-20.27	60.76	29.70	0.58	10.21	QP
15	0.33	27.07	-22.33	49.40	16.30	0.58	10.19	Average
16	0.33	39.07	-20.33	59.40	28.30	0.58	10.19	QP
17	0.39	32.13	-15.86	47.99	21.41	0.55	10.17	Average
18	0.39	39.33	-18.66	57.99	28.61	0.55	10.17	QP
19	0.44	32.94	-14.08	47.02	22.20	0.58	10.16	Average
20	0.44	40.44	-16.58	57.02	29.70	0.58	10.16	QP
21	0.50	31.36	-14.64	46.00	20.59	0.61	10.16	Average
22	0.50	38.66	-17.34	56.00	27.89	0.61	10.16	QP
23	0.56	30.54	-15.46	46.00	19.80	0.59	10.15	Average
24	0.56	37.64	-18.36	56.00	26.90	0.59	10.15	QP

SPORTON INTERNATIONAL (KUNSHAN) INC.

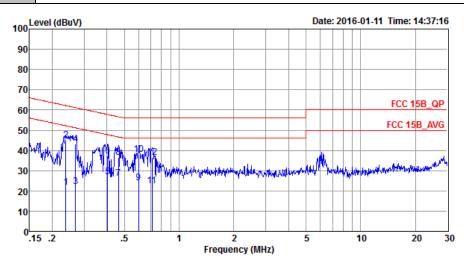
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Report No.: FC610801

Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
	WORLD LILL B		

WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Function Type: Notebook) + Earphone + GPS Rx + SIM1



Condition: FCC 15B_QP LISN_L_20150304 LINE

Project : (FC)610801 Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∇	dB	dBu∇	dBu∇	dB	dB	
1 2 *	0.24		-30.37 -16.97	52.17 62.17	11.01 34.41	0.54		Average
3	0.27	22.18	-28.98	51.16	11.39	0.54		Average
4 5	0.27 0.40		-17.98 -20.75	61.16 47.77	32.39 16.31	0.56 0.54	10.23 10.17	QP Average
6 7	0.40 0.46		-20.35 -20.54	57.77 46.63	26.71 15.30	0.54 0.63	10.17 10.16	QP Average
8 9	0.46		-19.94 -22.05	56.63 46.00	25.90 13.20	0.63	10.16 10.15	QP Average
10 11	0.60 0.71		-18.05 -23.61	56.00 46.00	27.20 11.70	0.60 0.54	10.15 10.15	QP Average
12	0.71	36.69	-19.31	56.00	26.00	0.54	10.15	QP

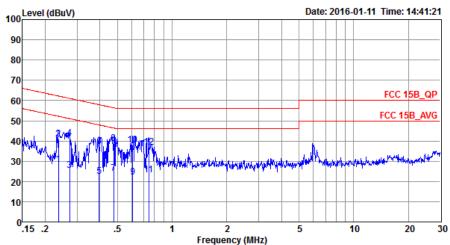
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Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type:	WCDMA Band II Idle + Blue	etooth Idle + WLAN Id	le + USB Cable (Data Link with

Notebook) + Earphone + GPS Rx + SIM1 Date: 2016-01-11 Time: 14:41:21



Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL

Project : (FC)610801 Mode : Mode 3

	Freq	Level	Over Limit		Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu∀	dB	dBu∇	dBu₹	dB	dB	
1	0.24	28.40	-23.82	52.22	17.61	0.54	10.25	Average
2	0.24	41.10	-21.12	62.22	30.31	0.54	10.25	QP
3	0.27	25.29	-25.74	51.03	14.50	0.57	10.22	Average
4	0.27	41.49	-19.54	61.03	30.70	0.57	10.22	QP
5	0.40	22.42	-25.53	47.95	11.70	0.55	10.17	Average
6	0.40	37.32	-20.63	57.95	26.60	0.55	10.17	QP
7	0.48	23.95	-22.46	46.41	13.19	0.60	10.16	Average
8 *	0.48	38.65	-17.76	56.41	27.89	0.60	10.16	QP
9	0.61	22.23	-23.77	46.00	11.50	0.58	10.15	Average
10	0.61	37.83	-18.17	56.00	27.10	0.58	10.15	QP
11	0.74	23.40	-22.60	46.00	12.70	0.55	10.15	Average
12	0.74	36.90	-19.10	56.00	26.20	0.55	10.15	QP

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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.

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

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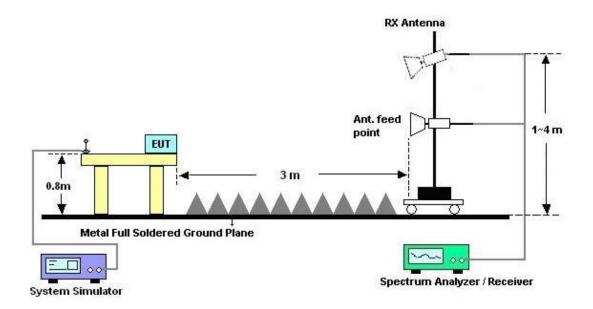
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

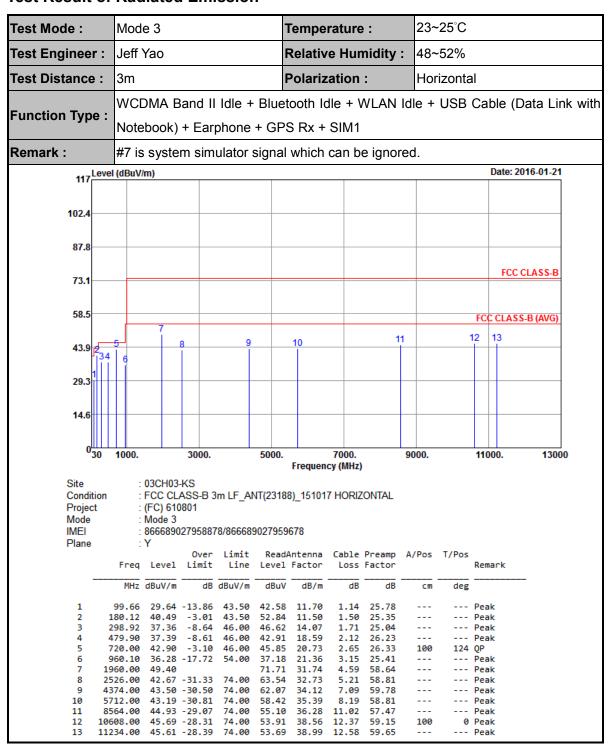


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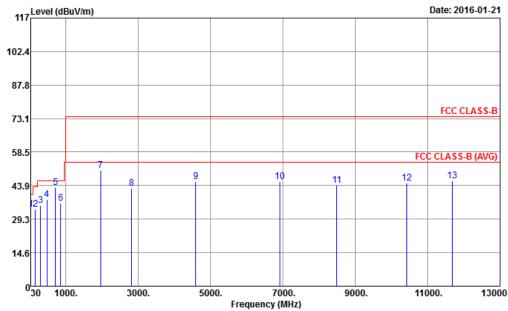
3.2.5. Test Result of Radiated Emission



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23~25°C Test Mode: Mode 3 Temperature: Test Engineer: Jeff Yao Relative Humidity: 48~52% Test Distance: 3m Polarization: Vertical WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with **Function Type:** Notebook) + Earphone + GPS Rx + SIM1 Remark: #7 is system simulator signal which can be ignored. 117 Level (dBuV/m) Date: 2016-01-21 102.4



Site : 03CH03-KS

Condition : FCC CLASS-B 3m LF_ANT(23188)_151017 VERTICAL

Project : (FC) 610801

Mode : Mode 3

IMEI : 866689027958878/866689027959678

Plane

lane	-										
			Over	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	30.00	33.72	-6.28	40.00	33.44	25.60	0.75	26.07			Peak
2	161.49	33.57	-9.93	43.50	45.69	12.13	1.20	25.45			Peak
3	299.73	35.33	-10.67	46.00	44.56	14.10	1.71	25.04			Peak
4	479.90	37.81	-8.19	46.00	43.33	18.59	2.12	26.23			Peak
5	720.00	42.88	-3.12	46.00	45.83	20.73	2.65	26.33	100	0	Peak
6	864.20	36.04	-9.96	46.00	37.08	21.92	3.02	25.98			Peak
7	1960.00	50.42			72.73	31.74	4.59	58.64			Peak
8	2818.00	42.82	-31.18	74.00	63.32	32.95	5.62	59.07			Peak
9	4594.00	45.59	-28.41	74.00	63.61	34.25	7.26	59.53			Peak
10	6910.00	45.69	-28.31	74.00	58.15	36.13	9.21	57.80			Peak
11	8494.00	44.01	-29.99	74.00	54.11	36.20	11.06	57.36			Peak
12	10432.00	45.03	-28.97	74.00	53.34	38.45	12.26	59.02			Peak
13	11680.00	46.09	-27.91	74.00	54.12	39.30	12.60	59.93	100	0	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, 2015	Jan. 11, 2016	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Jan. 11, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Jan. 11, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Jan. 11, 2016	Oct. 23, 2016	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 10, 2015	Jan. 21, 2016	Sep. 09, 2016	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Jun. 05, 2015	Jan. 21, 2016	Jun. 04, 2016	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	25MHz-2GHz	Jan. 16, 2016	Jan. 21, 2016	Jan. 15, 2017	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Jun. 25, 2015	Jan. 21, 2016	Jun. 24, 2016	Radiation (03CH03-KS)
Amplifier	Burgeon	BPA-530	102212	0.01MHz-3000 MHz	Aug.10, 2015	Jan. 21, 2016	Aug. 09, 2016	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 24, 2015	Jan. 21, 2016	Oct. 23, 2016	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 21, 2016	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 21, 2016	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 21, 2016	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of	4.5dB
Confidence of 95% (U = 2Uc(y))	4.5UB

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