FCC Test Report

APPLICANT : BLU Products, Inc.

EQUIPMENT: Smartphone

BRAND NAME : BLU

MODEL NAME : STUDIO TOUCH

FCC ID : YHLBLUSTUDIOTCH

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Apr. 07, 2016 and testing was completed on Apr. 28, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Prepared by: Ken Chen / Manager

lon Cher

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 1 of 27

Testing Laboratory 2353

Report No.: FC640701

Report Issued Date: May 13, 2016
Report Version: Rev. 01

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
		RY OF TEST RESULT	
		ERAL DESCRIPTION	
••	1.1. 1.2. 1.3. 1.4. 1.5. 1.6. 1.7.	Applicant Manufacturer Product Feature of Equipment Under Test Product Specification of Equipment Under Test Modification of EUT Test Location	5 6 7
2.	2.1. 2.2. 2.3. 2.4.	Support Unit used in test configuration and system	
3.	3.1. 3.2.	Tool of the Conductor Emission modes of the Conductor	13
		OF MEASURING EQUIPMENT	
ΑP	PEND	IX A. SETUP PHOTOGRAPHS	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 2 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC640701	Rev. 01	Initial issue of report	May 13, 2016

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 3 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits < ICES003 6.1 limits	PASS	Under limit 10.07 dB at 0.180 MHz
3.2	15.109	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.09 dB at 33.240 MHz for Quasi-Peak

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 4 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

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	Smartphone			
Brand Name	BLU			
Model Name	STUDIO TOUCH			
FCC ID	YHLBLUSTUDIOTCH			
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE			
IMEI Code	Conduction: 353919028094880/353919028144883 Radiation: 353919028094880/353919028144883			
HW Version	V1.0			
SW Version	BLU_4605AN_V01_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.

SPORTON INTERNATIONAL (SHENZHEN) INC.

FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH

TEL: 86-755-8637-9589

Page Number : 5 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

1.4. Product Specification of Equipment Under Test

Oten devide related Devident Over 10 and 10				
Standards-	-related Product Specification			
	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			
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz			
,	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz			
	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz			
	LTE Band 12 : 699.7 MHz ~ 715.3 MHz			
	LTE Band 17 : 706.5 MHz ~ 713.5 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 : 2112.4 MHz ~ 2152.6 MHz			
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz			
	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz			
Rx Frequency	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz			
TX Troquency	LTE Band 7 : 2622.5 MHz~ 2687.5 MHz			
	LTE Band 12 : 729.7 MHz ~ 745.3 MHz			
	LTE Band 17 : 736.5 MHz ~ 743.5 MHz			
	802.11b/g/n: 2412 MHz ~ 2462 MHz			
	Bluetooth: 2402 MHz ~ 2480 MHz			
	GPS: 1.57542 GHz			
	FM: 88 MHz ~ 108 MHz			
	WWAN : PIFA Antenna			
Antenna Type	WLAN: PIFA Antenna			
7,1	Bluetooth : PIFA Antenna			
	GPS : PIFA Antenna			
	GSM: GMSK			
	GPRS: GMSK			
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK			
	WCDMA: QPSK (Uplink)			
	HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)			
	HSPA+ : 16QAM (uplink is not supported)			
Type of Modulation	LTE: QPSK / 16QAM			
1.750 OI INOGGIACION	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			
	FM			

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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 6 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No.: FC640701

1.5. Modification of EUT

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

1.6. Test Location

Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.			
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili		
Test Site Location	Town, Nanshan District, Shenzhen, Guangdong, P. R. China		
rest Site Location	TEL: +86-755-8637-9589		
	FAX: +86-755-8637-9595		
Took Cita No	Sporton Site No.		
Test Site No.	CO01-SZ		

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
	No. 3 Building, the third floor of se	outh, Shahe River west, Fengzeyuan		
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China			
	TEL: +86-755- 3320-2398			
Tool Cita No	Sporton Site No. FCC/IC Registration			
Test Site No.	03CH02-SZ	566869/4086F		

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

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 7 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

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 AC	EMI RE<1G	EMI RE≥1G	
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	\boxtimes	
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

SPORTON INTERNATIONAL (SHENZHEN) INC.

FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH

TEL: 86-755-8637-9589

Page Number : 8 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No. : FC640701

Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Front) + SIM1 < Fig.1>
		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Back) + SIM1 < Fig.1>
AC Conducted Emission	1/2	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 4: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM1 < Fig.2>
		Mode 5: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Front) + SIM2 < Fig.1>
	GHz 1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Front) + SIM1 < Fig.1>
		Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Back) + SIM1 < Fig.1>
Radiated Emissions < 1GHz		Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + MPEG4 + SIM1 <fig.1></fig.1>
		Mode 4: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM1 <fig.2></fig.2>
		Mode 5: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Front) + SIM2 < Fig.1>
Radiated	0	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Front) + SIM1 < Fig.1>
Emissions ≥ 1GHz	2	Mode 2: WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM2 < Fig.2>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 9 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01
Report Template No.: BU5-FC15B Version 1.3

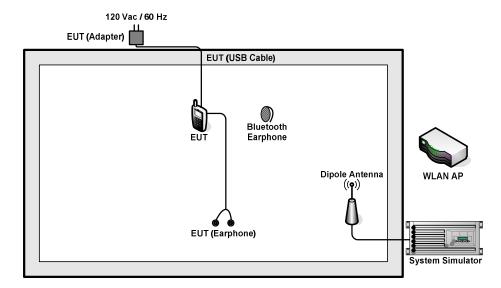
Remark:

- 1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 4, the test data of these modes are reported.
- The worst case of RE < 1G is mode 1; and the USB Link mode of RE is mode 4, the test data of these modes are reported.
- **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook.

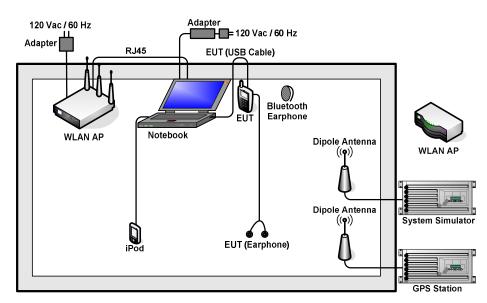
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 10 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 11 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

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	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	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
5.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
6.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
8.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A
9.	iPod	Apple	MC525 ZP/A	N/A	Shielded, 1.0 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 Notebook and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Turn on FM function.
- 4. Execute "Video player" to play MPEG4 files.
- 5. Turn on camera to capture images.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 12 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No. : FC640701

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

- 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.

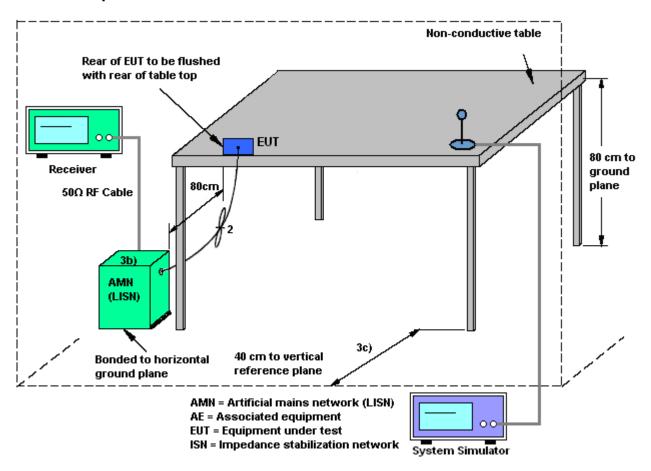
FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH

TEL: 86-755-8637-9589

Page Number : 13 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

3.1.4 Test Setup

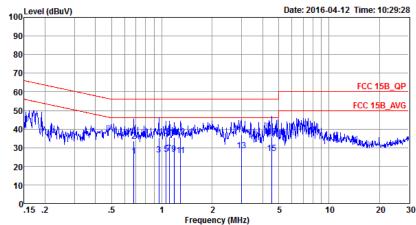


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 14 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Eupation Type	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)		
Function Type :	+ Earphone + SD Card + Ca	mera(Front) + SIM1	
	Level (dRuV)	Date: 20	016-04-12 Time: 10:29:28



Site : C001-SZ Condition: FCC 15B_QP LISN_L_20160112 LINE Project : (FC)640701

Mode : Mode 1

IMEI : 353919028094880/353919028144883

	. 000011	,0200310	00,00001.		-			
			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
_								
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.68	25.50	-20.50	46.00	14.80	0.55	10.15	Average
2	0.68	33.60	-22.40	56.00	22.90	0.55	10.15	QP
3	0.96	26.36	-19.64	46.00	15.70	0.51	10.15	Average
4	0.96	35.36	-20.64	56.00	24.70	0.51	10.15	QP
5	1.06	26.66	-19.34	46.00	16.00	0.51	10.15	Average
6	1.06	36.06	-19.94	56.00	25.40	0.51	10.15	QP
7	1.11	26.86	-19.14	46.00	16.20	0.50	10.16	Average
8	1.11	35.96	-20.04	56.00	25.30	0.50	10.16	QP
9	1.18	26.46	-19.54	46.00	15.80	0.50	10.16	Average
10	1.18	35.46	-20.54	56.00	24.80	0.50	10.16	QP
11	1.30	25.96	-20.04	46.00	15.31	0.49	10.16	Average
12	1.30	35.66	-20.34	56.00	25.01	0.49	10.16	QP
13 *	2.99	28.46	-17.54	46.00	17.70	0.55	10.21	Average
14	2.99	36.96	-19.04	56.00	26.20	0.55	10.21	QP
15	4.55	27.06	-18.94	46.00	16.20	0.63	10.23	Average
16	4.55	35.96	-20.04	56.00	25.10	0.63	10.23	QP

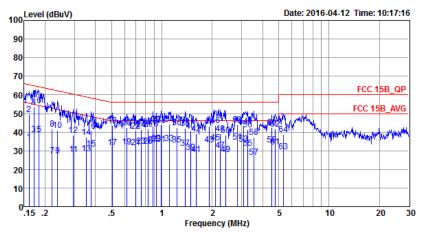
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH

: 15 of 27 Page Number Report Issued Date: May 13, 2016 Report Version : Rev. 01

Report No.: FC640701

SPORTON LAB.	FCC Test Repor

Test Mode :	Mode 1	Temperature :	21~23 ℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Id	le + WLAN Idle + USB	Cable (Charging from Adapter)
Function Type :	+ Earphone + SD Card + Ca	nmera(Front) + SIM1	



Site : C001-SZ Condition: FCC 15B_QP LISN_N_20160112 NEUTRAL Project : (FC)640701

Mode : Mode 1

: 353919028094880/353919028144883

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.16	34.81	-20.62	55.43	24.01	0.46	10.34	Average
2	0.16	49.31	-16.12	65.43	38.51	0.46	10.34	QP
3	0.17	38.61	-16.29	54.90	27.80	0.48	10.33	Average
4	0.17	53.61	-11.29	64.90	42.80	0.48	10.33	QP
5	0.18	38.61	-15.67	54.28	27.81	0.49	10.31	Average
6 *	0.18	54.21	-10.07	64.28	43.41	0.49	10.31	QP
7	0.22	27.20	-25.59	52.79	16.40	0.53	10.27	Average
8	0.22	41.70	-21.09	62.79	30.90	0.53	10.27	QP
9	0.24	27.30	-24.87	52.17	16.50	0.55	10.25	Average
10	0.24	40.90	-21.27	62.17	30.10	0.55	10.25	QP
11	0.30	27.99	-22.38	50.37	17.20	0.59	10.20	Average
12	0.30	38.39	-21.98	60.37	27.60	0.59	10.20	QP
13	0.35	28.35	-20.52	48.87	17.60	0.57	10.18	Average
14	0.35	37.25	-21.62	58.87	26.50	0.57	10.18	QP
15	0.38	31.04	-17.30	48.34	20.30	0.56	10.18	Average
16	0.38	40.74	-17.60	58.34	30.00	0.56	10.18	QP
17	0.50	31.66	-14.34	46.00				Average
18	0.50	43.66	-12.34	56.00		0.61		QP
19	0.62	32.12	-13.88	46.00		0.57		Average
20	0.62	42.42	-13.58	56.00		0.57		QP
21	0.70	31.80	-14.20	46.00		0.55	10.15	Average
22	0.70	40.50	-15.50	56.00	29.80	0.55	10.15	QP
23	0.75	32.50	-13.50	46.00	21.80	0.55	10.15	Average
24	0.75	41.50	-14.50	56.00	30.80	0.55	10.15	QP
25	0.83	32.40	-13.60	46.00	21.70	0.55	10.15	Average
26	0.83	41.60	-14.40	56.00	30.90			QP
27	0.88	33.31	-12.69	46.00	22.60	0.56	10.15	Average
28	0.88	43.01	-12.99	56.00	32.30	0.56	10.15	QP
29	0.93	33.91	-12.09	46.00	23.20	0.56	10.15	Average
30	0.93	44.11	-11.89	56.00	33.40	0.56	10.15	QP
31	0.99	33.61	-12.39	46.00	22.90	0.56	10.15	Average
32	0.99	44.01	-11.99	56.00	33.30	0.56	10.15	QP

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH

: 16 of 27 Page Number Report Issued Date: May 13, 2016 Report Version : Rev. 01 Report Template No.: BU5-FC15B Version 1.3



Toot Mode :	Mode 1	To	mnoratu	**	21~23℃						
			-								
Test Engineer :	Tao Cheng	Re	elative Hu	umidity :	Neutral						
Test Voltage :	120Vac / 60Hz	Pł	nase :		Neutral						
Function Type: + Earphone + SD Card + Camera(Front) + SIM1 100 Level (dBuV) Date: 2016-04-12 Time: 10:17:16											
Function Type :	+ Earphone + SI	Card + Cam	era(Front)) + SIM1							
1	00 Level (dBuV)			Date:	2016-04-12 Tim	ne: 10:17:16					
	### To Cheng Relative Humidity :										
	Relative Humidity: 41~43% est Voltage: 120Vac / 60Hz Phase: Neutral SSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + SD Card + Camera(Front) + SIM1 100										
Test Voltage: 120Vac / 60Hz											
	60				FC	C 15B_QP					
	50 2	Land of the land o		יייי וארונה אי	FCC	C 15B_AVG					
	40 35 90 12 14 4	7 192 929991 3335 ₃₇	495L 553	8 1 564 L	AN ARMAN AN ARM	AND THE PROPERTY OF THE PARTY O					
	30 79 11 13	339	1 49 7	7 163							
	20										
	CSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter + Earphone + SD Card + Camera(Front) + SIM1 100										
Site	: CO01-SZ		quency (milz)								
		ISN_N_20160112 N	NEUTRAL								
		380/353919028144	4883								
		Over Limi	t Read								
	Freq Level	Limit Line	e TeAeT	ractor	Loss Remai						
	MHz dBuV	dB dBu	V dBuV	dB	dB						
						age					
						age					
						200					
						ige					
39			0 18.40			age					
						ige					
4.0						age					
						age					
						age					
						age					
						age					
						age					
55						age					
Tao Cheng Relative Humidity : 41-43%											
Test Voltage: 120Vac / 60Hz Phase: Neutral GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapte + Earphone + SD Card + Camera(Front) + SIM1 Test Voltage: Condition: FC 158 OP											
Test Voltage: 120Vac / 60Hz											
						age					
						age					
55	5.50 25.01		0 10.70	2.00	A A A	-5-					

5.36 38.81 -21.19 60.00 27.90 0.66 10.25 QP

64

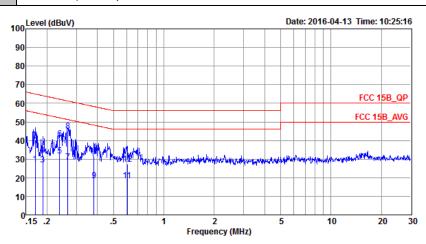
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 17 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report Template No.: BU5-FC15B Version 1.3

FCC Test Report No.: FC640701

Test Mode :	Mode 4	Temperature :	21~23 ℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
	WCDMA Band IV Idle + Blu	etooth Idle + WLAN Id	le + USB Cable (Data Link with

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



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20160112 LINE

Project : (FC)640701 Mode : Mode 4

IMEI : 353919028094880/353919028144883

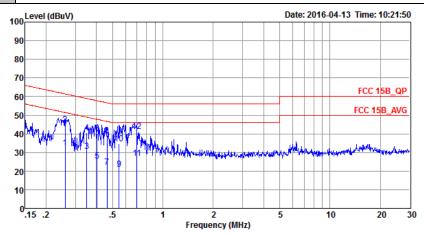
. 55551	30200340	00/333313	00201110				
		Over	Limit	Read	LISN	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark
MHz	dBuV	dB	dBu₹	dBuV	dB	dB	
0.17	27.40	-27.54	54.94	16.60	0.47	10.33	Average
0.17	40.10	-24.84	64.94	29.30	0.47	10.33	QP
0.19	27.11	-27.00	54.11	16.30	0.50	10.31	Average
0.19	32.01	-32.10	64.11	21.20	0.50	10.31	QP
0.24	31.80	-20.37	52.17	21.01	0.54	10.25	Average
0.24	40.80	-21.37	62.17	30.01	0.54	10.25	QP
0.27	28.38	-22.87	51.25	17.59	0.56	10.23	Average
0.27	45.08	-16.17	61.25	34.29	0.56	10.23	QP
0.38	18.62	-29.63	48.25	7.89	0.55	10.18	Average
0.38	31.62	-26.63	58.25	20.89	0.55	10.18	QP
0.60	18.45	-27.55	46.00	7.70	0.60	10.15	Average
0.60	27.35	-28.65	56.00	16.60	0.60	10.15	QP
	MHz 0.17 0.17 0.19 0.19 0.24 0.27 0.27 0.38 0.38 0.60	MHz dBuV 0.17 27.40 0.17 40.10 0.19 27.11 0.19 32.01 0.24 31.80 0.24 40.80 0.27 28.38 0.27 45.08 0.38 18.62 0.38 31.62 0.60 18.45	Over Freq Level Limit MHz dBuV dB 0.17 27.40 -27.54 0.17 40.10 -24.84 0.19 27.11 -27.00 0.19 32.01 -32.10 0.24 31.80 -20.37 0.24 40.80 -21.37 0.27 28.38 -22.87 0.27 45.08 -16.17 0.38 18.62 -29.63 0.38 31.62 -26.63 0.60 18.45 -27.55	MHz dBuV dB dBuV 0.17 27.40 -27.54 54.94 0.17 40.10 -24.84 64.94 0.19 27.11 -27.00 54.11 0.19 32.01 -32.10 64.11 0.24 31.80 -20.37 52.17 0.24 40.80 -21.37 62.17 0.27 28.38 -22.87 51.25 0.27 45.08 -16.17 61.25 0.38 18.62 -29.63 48.25 0.38 31.62 -26.63 58.25 0.60 18.45 -27.55 46.00	Freq Level Limit Line Level MHz dBuV dB dBuV dBuV 0.17 27.40 -27.54 54.94 16.60 0.17 40.10 -24.84 64.94 29.30 0.19 27.11 -27.00 54.11 16.30 0.19 32.01 -32.10 64.11 21.20 0.24 31.80 -20.37 52.17 21.01 0.24 40.80 -21.37 62.17 30.01 0.27 28.38 -22.87 51.25 17.59 0.27 45.08 -16.17 61.25 34.29 0.38 18.62 -29.63 48.25 7.89 0.38 31.62 -26.63 58.25 20.89 0.60 18.45 -27.55 46.00 7.70	Over Limit Line Read LISN Level LISN Level LEVEL LIMIT Line Level Factor MHz dBuV dB dBuV dBuV dB dB 0.47 dB 0.47 dB 0.47 0.47 0.17 40.10 -24.84 64.94 29.30 0.47 0.19 27.11 -27.00 54.11 16.30 0.50 0.50 0.19 32.01 -32.10 64.11 21.20 0.50 0.50 0.24 31.80 -20.37 52.17 21.01 0.54 0.54 0.24 40.80 -21.37 62.17 30.01 0.54 0.54 0.27 28.38 -22.87 51.25 17.59 0.56 0.27 45.08 -16.17 61.25 34.29 0.56 0.38 18.62 -29.63 48.25 7.89 0.55 0.38 31.62 -26.63 58.25 20.89 0.55 0.60 18.45 -27.55 46.00 7.70 0.60	Over Limit Line Level Factor Loss MHz dBuV dBuV dBuV dB dB 0.17 27.40 -27.54 54.94 16.60 0.47 10.33 0.17 40.10 -24.84 64.94 29.30 0.47 10.33 0.19 27.11 -27.00 54.11 16.30 0.50 10.31 0.19 32.01 -32.10 64.11 21.20 0.50 10.31 0.24 31.80 -20.37 52.17 21.01 0.54 10.25 0.24 40.80 -21.37 62.17 30.01 0.54 10.25 0.27 28.38 -22.87 51.25 17.59 0.56 10.23 0.27 45.08 -16.17 61.25 34.29 0.56 10.23 0.38 18.62 -29.63 48.25 7.89 0.55 10.18 0.60 18.45 -27.55 46.00 7.70 0.60 10.15

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 18 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No.: FC640701

Test Mode :	Mode 4	Temperature :	21~23 ℃
Test Engineer :	Tao Cheng	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band IV Idle + Blu	etooth Idle + WLAN Id	le + USB Cable (Data Link with

Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM1



: CO01-SZ

Condition: FCC 15B_QP LISN_N_20160112 NEUTRAL

Project : (FC) 640701 Mode : Mode 4

IMEI : 353919028094880/353919028144883

		,	002011100				
		Over	Limit	Read	LISN	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark
MHz	dBu∇	dB	dBu∀	dBu∀	dB	dB	
0.26	32.30	-19.12	51.42	21.51	0.56	10.23	Average
0.26	45.00	-16.42	61.42	34.21	0.56	10.23	QP
0.35	30.65	-18.31	48.96	19.90	0.57	10.18	Average
0.35	40.75	-18.21	58.96	30.00	0.57	10.18	QP
0.40	25.62	-22.15	47.77	14.90	0.55	10.17	Average
0.40	40.12	-17.65	57.77	29.40	0.55	10.17	QP
0.46	22.05	-24.58	46.63	11.30	0.59	10.16	Average
0.46	39.05	-17.58	56.63	28.30	0.59	10.16	QP
0.55	21.15	-24.85	46.00	10.41	0.59	10.15	Average
0.55	34.75	-21.25	56.00	24.01	0.59	10.15	QP
0.70	27.10	-18.90	46.00	16.40	0.55	10.15	Average
0.70	41.30	-14.70	56.00	30.60	0.55	10.15	OP
	MHz 0.26 0.26 0.35 0.40 0.40 0.46 0.46 0.55 0.55	MHz dBuV 0.26 32.30 0.26 45.00 0.35 30.65 0.35 40.75 0.40 25.62 0.40 40.12 0.46 22.05 0.46 39.05 0.55 21.15 0.55 34.75 0.70 27.10	Freq Level Limit MHz dBuV dB 0.26 32.30 -19.12 0.26 45.00 -16.42 0.35 30.65 -18.31 0.35 40.75 -18.21 0.40 25.62 -22.15 0.40 40.12 -17.65 0.46 39.05 -17.58 0.46 39.05 -17.58 0.55 21.15 -24.85 0.55 34.75 -21.25 0.70 27.10 -18.90	Freq Level Limit Line MHz dBuV dB dBuV 0.26 32.30 -19.12 51.42 0.26 45.00 -16.42 61.42 0.35 30.65 -18.31 48.96 0.35 40.75 -18.21 58.96 0.40 25.62 -22.15 47.77 0.40 40.12 -17.65 57.77 0.46 22.05 -24.58 46.63 0.46 39.05 -17.58 56.63 0.55 21.15 -24.85 46.00 0.55 34.75 -21.25 56.00 0.70 27.10 -18.90 46.00	Freq Level Limit Line Level MHz dBuV dB dBuV dBuV 0.26 32.30 -19.12 51.42 21.51 0.26 45.00 -16.42 61.42 34.21 0.35 30.65 -18.31 48.96 19.90 0.35 40.75 -18.21 58.96 30.00 0.40 25.62 -22.15 47.77 14.90 0.40 40.12 -17.65 57.77 29.40 0.46 39.05 -17.58 56.63 11.30 0.55 21.15 -24.85 46.00 10.41 0.55 34.75 -21.25 56.00 24.01 0.70 27.10 -18.90 46.00 16.40	Freq Level Limit Line Level Factor MHz dBuV dB dBuV dBuV dB 0.26 32.30 -19.12 51.42 21.51 0.56 0.26 45.00 -16.42 61.42 34.21 0.56 0.35 30.65 -18.31 48.96 19.90 0.57 0.35 40.75 -18.21 58.96 30.00 0.57 0.40 25.62 -22.15 47.77 14.90 0.55 0.40 40.12 -17.65 57.77 29.40 0.55 0.46 39.05 -17.58 56.63 28.30 0.59 0.55 21.15 -24.85 46.00 10.41 0.59 0.55 34.75 -21.25 56.00 24.01 0.59 0.70 27.10 -18.90 46.00 16.40 0.55	Freq Level Limit Line Level Factor Loss MHz dBuV dB dBuV dBuV dB dB 0.26 32.30 -19.12 51.42 21.51 0.56 10.23 0.26 45.00 -16.42 61.42 34.21 0.56 10.23 0.35 30.65 -18.31 48.96 19.90 0.57 10.18 0.35 40.75 -18.21 58.96 30.00 0.57 10.18 0.40 25.62 -22.15 47.77 14.90 0.55 10.17 0.40 40.12 -17.65 57.77 29.40 0.55 10.17 0.46 39.05 -17.58 56.63 28.30 0.59 10.16 0.46 39.05 -17.58 56.63 28.30 0.59 10.16 0.55 21.15 -24.85 46.00 10.41 0.59 10.15 0.55 34.75 -21.25 <td< td=""></td<>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH

: 19 of 27 Page Number Report Issued Date: May 13, 2016 Report Version : Rev. 01

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

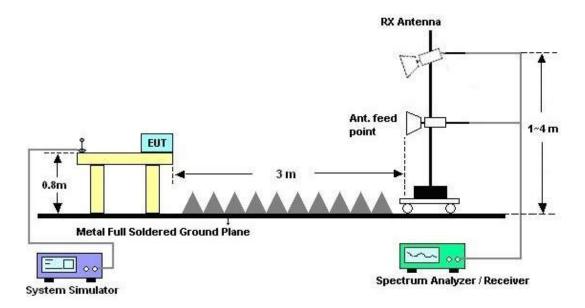
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 20 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01
Report Template No.: BU5-FC15B Version 1.3

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

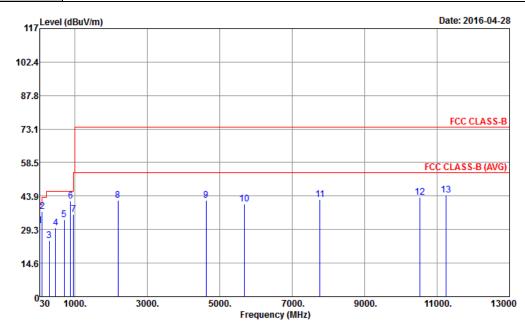


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 21 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No.: FC640701

3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Camera(Front) + SIM1					
Test Engineer : Jeff Yao Relative Humidity : 48~52% Test Distance : 3m Polarization : Horizontal		48~52%					
Test Distance :	3m	Polarization :	Horizontal				
Function Type	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)						
Function Type :	+ Earphone + SD Card + Camera(Front) + SIM1						
Remark :	#6 is system simulator signa	al which can be ignored	1.				



Condition : FCC CLASS-B 3m LF_ANT(23188)6_15101 HORIZONTAL

Project : (FC) 640701

Mode : Mode 1

IMEI : 353919028094880/353919028144883

			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	30.54	30.92	-9.08	40.00	30.01	26.22	0.75	26.06			Peak
2	94.80	37.21	-6.29	43.50	44.07	17.80	1.14	25.80	100	0	Peak
3	295.95	24.51	-21.49	46.00	29.51	18.34	1.71	25.05			Peak
4	466.60	30.13	-15.87	46.00	30.29	23.88	2.12	26.16			Peak
5	708.10	33.46	-12.54	46.00	30.58	26.58	2.65	26.35			Peak
6	881.70	41.74			36.36	28.29	3.02	25.93			Peak
7	958.70	35.71	-10.29	46.00	29.00	28.99	3.15	25.43			Peak
8	2192.00	41.90	-32.10	74.00	63.33	32.39	4.85	58.67			Peak
9	4622.00	41.92	-32.08	74.00	59.78	34.27	7.30	59.43			Peak
10	5686.00	40.44	-33.56	74.00	55.60	35.37	8.19	58.72			Peak
11	7766.00	42.33	-31.67	74.00	53.98	36.41	10.61	58.67			Peak
12	10528.00	43.34	-30.66	74.00	51.57	38.51	12.32	59.06			Peak
13	11250.00	44.46	-29.54	74.00	52.54	39.00	12.58	59.66	100	0	Peak

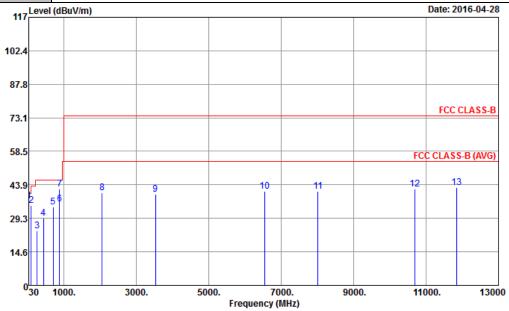
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 22 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No.: FC640701

Report No.: FC640701

Test Mode :	Mode 1	Temperature :	23~25°C					
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%					
Test Distance :	3m	Polarization :	Vertical					
GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging								
Function Type :	+ Earphone + SD Card + Camera(Front) + SIM1							
Remark :	#7 is system simulator signal which can be ignored							

117 Level (dBuV/m)



: FCC CLASS-B 3m LF_ANT(23188)6_15101 VERTICAL Condition

Project : (FC) 640701 Mode : Mode 1

: 353919028094880/353919028144883 IMEI

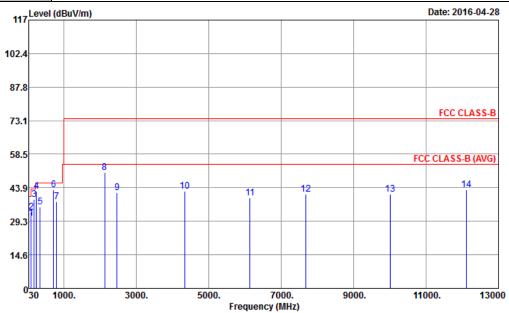
			0ver	Limit	Read	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	
1	33.24	36.91	-3.09	40.00	36.75	25.46	0.75	26.05	100	0	QP
2	92.91	35.01	-8.49	43.50	42.08	17.60	1.14	25.81			Peak
3	263.28	23.70	-22.30	46.00	30.24	17.01	1.57	25.12			Peak
4	440.00	29.37	-16.63	46.00	29.08	24.23	2.08	26.02			Peak
5	700.40	34.06	-11.94	46.00	31.28	26.50	2.65	26.37			Peak
6	877.50	35.57	-10.43	46.00	30.22	28.27	3.02	25.94			Peak
7	881.70	42.02			36.64	28.29	3.02	25.93			Peak
8	2058.00	40.27	-33.73	74.00	62.06	32.25	4.71	58.75			Peak
9	3530.00	39.64	-34.36	74.00	59.53	33.43	6.30	59.62			Peak
10	6554.00	41.01	-32.99	74.00	54.00	36.28	8.81	58.08			Peak
11	8016.00	41.12	-32.88	74.00	51.39	36.49	11.09	57.85			Peak
12	10688.00	42.05	-31.95	74.00	50.27	38.61	12.41	59.24			Peak
13	11854.00	42.60	-31.40	74.00	50.68	39.41	12.61	60.10	100	0	Peak

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 23 of 27 Report Issued Date: May 13, 2016 Report Version : Rev. 01

FCC Test Report No. : FC640701

Test Mode :	Mode 4	Temperature :	23~25°C				
Test Engineer :	Jeff Yao	Relative Humidity :	48~52%				
Test Distance :	3m	Polarization :	Horizontal				
Eurotion Type	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link wi						
Function Type :	Notebook) + Earphone + SD Card + GPS Rx + FM Rx + SIM1						
Remark :	#8 is system simulator signal which can be ignored.						



Condition : FCC CLASS-B 3m LF_ANT(23188)6_15101 HORIZONTAL

Project : (FC) 640701 Mode : Mode 4

IMEI : 353919028094880/353919028144883

			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	98.04	30.57	-12.93	43.50	36.94	18.28	1.14	25.79			Peak
2	99.93	33.10	-10.40	43.50	39.14	18.60	1.14	25.78			Peak
3	179.04	38.82	-4.68	43.50	46.43	16.25	1.50	25.36			Peak
4	240.06	42.23	-3.77	46.00	49.58	16.27	1.54	25.16			Peak
5	344.10	35.67	-10.33	46.00	39.01	20.09	1.95	25.38			Peak
6	720.00	42.96	-3.04	46.00	39.94	26.70	2.65	26.33	100	0	Peak
7	794.20	37.91	-8.09	46.00	33.86	27.35	2.88	26.18			Peak
8	2132.00	50.38			71.92	32.34	4.80	58.68			Peak
9	2468.00	41.86	-32.14	74.00	62.77	32.67	5.16	58.74			Peak
10	4346.00	42.49	-31.51	74.00	61.13	34.11	7.06	59.81			Peak
11	6134.00	39.55	-34.45	74.00	54.39	35.93	8.52	59.29			Peak
12	7672.00	41.10	-32.90	74.00	53.11	36.37	10.33	58.71			Peak
13	10020.00	41.03	-32.97	74.00	49.77	38.13	12.03	58.90			Peak
14	12108.00	43.02	-30.98	74.00	51.22	39.46	12.67	60.33	100	0	Peak

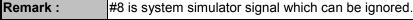
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 24 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

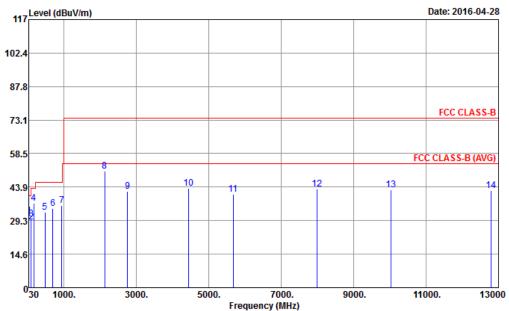
Test Mode: Mode 4 Temperature: 23~25°C

Test Engineer: Jeff Yao Relative Humidity: 48~52%

Test Distance: 3m Polarization: Vertical

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





Condition : FCC CLASS-B 3m LF_ANT(23188)6_15101 VERTICAL

Project : (FC) 640701 Mode : Mode 4

IMEI : 353919028094880/353919028144883

	Freq	Level	Over Limit	Limit Line		Intenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.62	31.42	-8.58	40.00	30.88	25.84	0.75	26.05			Peak
2	98.04	28.63	-14.87	43.50	35.00	18.28	1.14	25.79			Peak
3	99.93	30.02	-13.48	43.50	36.06	18.60	1.14	25.78			Peak
4	171.48	36.67	-6.83	43.50	43.96	16.61	1.50	25.40	100	0	Peak
5	479.90	33.07	-12.93	46.00	33.81	23.37	2.12	26.23			Peak
6	696.90	34.71	-11.29	46.00	32.00	26.43	2.65	26.37			Peak
7	944.00	35.97	-10.03	46.00	29.52	28.84	3.15	25.54			Peak
8	2132.00	50.76			72.30	32.34	4.80	58.68			Peak
9	2758.00	42.01	-31.99	74.00	62.65	32.90	5.52	59.06			Peak
10	4442.00	43.49	-30.51	74.00	61.97	34.16	7.13	59.77	100	0	Peak
11	5672.00	40.87	-33.13	74.00	56.25	35.34	8.15	58.87			Peak
12	7996.00	43.10	-30.90	74.00	53.38	36.50	11.09	57.87			Peak
13	10024.00	42.73	-31.27	74.00	51.47	38.13	12.03	58.90			Peak
14	12792.00	42.23	-31.77	74.00	50.84	39.12	12.96	60.69			Peak

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 25 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No. : FC640701

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz;Ma x 30dBm	Oct. 20, 2015	Apr. 12, 2016~ Apr. 13, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 12, 2016	Apr. 12, 2016~ Apr. 13, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 12, 2016	Apr. 12, 2016~ Apr. 13, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Aug. 07, 2015	Apr. 12, 2016~ Apr. 13, 2016	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	Apr. 12, 2016~ Apr. 13, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz; Max 30dBm	Oct. 20, 2015	Apr. 28, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Oct. 20, 2015	Apr. 28, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	May 06, 2015	Apr. 28, 2016	May 05, 2016	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Apr. 28, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz~1300MHz / 30 dB	Aug. 07, 2015	Apr. 28, 2016	Aug. 06, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Apr. 28, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Apr. 28, 2016	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Apr. 28, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Apr. 28, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH Page Number : 26 of 27
Report Issued Date : May 13, 2016
Report Version : Rev. 01

Report No.: FC640701

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	5.0dB
Confidence of 95% (U = 2Uc(y))	5.0UB

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIOTCH

Report Version : Rev. 01

Page Number

Report Template No.: BU5-FC15B Version 1.3

Report Issued Date: May 13, 2016

: 27 of 27