FCC Test Report

APPLICANT : CT Asia

EQUIPMENT : Smartphone

BRAND NAME : BLU

MODEL NAME : LIFE ONE XL MARKETING NAME : Life One XL

FCC ID : YHLBLULIFEONEXL

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Apr. 04, 2015 and testing was completed on Apr. 23, 2015. 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 C63.4-2009 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.

Reviewed by: Louis Wu / Manager

Louis Wu

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: YHLBLULIFEONEXL

: 1 of 25 Page Number

Testing Laboratory 2353

Report No.: FC540402

Report Issued Date: May 14, 2015

TABLE OF CONTENTS

REVIS	ION HISTORY	3
SUMM	ARY OF TEST RESULT	4
	NERAL DESCRIPTION	
1.: 1.: 1.: 1.: 1.: 1.:	I. Applicant 2. Manufacturer 3. Product Feature of Equipment Under Test 4. Product Specification subjective to this standard 5. Modification of EUT 6. Test Location	6 6 6
2. 2. 2.	2. Connection Diagram of Test System	8 10
3.	ST RESULT I. Test of AC Conducted Emission Measurement	12
	ST OF MEASURING EQUIPMENT	
	CERTAINTY OF EVALUATION	25

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 2 of 25
Report Issued Date : May 14, 2015

Report No.: FC540402

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC540402	Rev. 01	Initial issue of report	May 14, 2015

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 3 of 25
Report Issued Date : May 14, 2015
Report Version : Rev. 01

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	10.85 dB at
					0.510 MHz
					Under limit
2.2	45 400	Dadiated Engineers	45 400 limita	DACC	2.10 dB at
3.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	31.080 MHz for
					Quasi-Peak

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 4 of 25

Report No.: FC540402

Report Issued Date : May 14, 2015 Report Version : Rev. 01

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

Tinno Mobile Technology Corp.

4/F, H-3 Building, OCT Eastern industrial Park, No.1 XiangShan East Road, Nan Shan District, Shenzhen, P.R. China

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	BLU
Model Name	LIFE ONE XL
Marketing Name	Life One XL
FCC ID	YHLBLULIFEONEXL
	GSM/GPRS/EGPRS/WCDMA/HSPA/
EUT supports Radios application	HSPA+(Downlink Only)/ LTE
Lot supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/ HT40
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
IMEI Code	Radiation:353919026679096/353924026679096
I IVIEI Code	Conduction:353919026678919/353924026678619
HW Version	V1.0
SW Version	BLU_X020_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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 5 of 25
Report Issued Date : May 14, 2015
Report Version : Rev. 01

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 LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 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				
Rx Frequency	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 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 7: 2622.5 MHz ~ 2687.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 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 EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK 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 LTE: QPSK / 16QAM				

1.5. Modification of EUT

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 6 of 25
Report Issued Date : May 14, 2015

Report No. : FC540402

1.6. Test Location

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

Report No. : FC540402

: 7 of 25

: Rev. 01

Report Issued Date: May 14, 2015

Page Number

Report Version

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398				
Toot Site No	Sporton Site No. FCC Registration N				
Test Site No.	03CH01-SZ 831040				

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 C63.4-2009

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

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

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

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

		Test Condition			
Item	EUT Configuration	EMI	EMI	EMI	
			RE<1G	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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 8 of 25
Report Issued Date : May 14, 2015

Report No.: FC540402

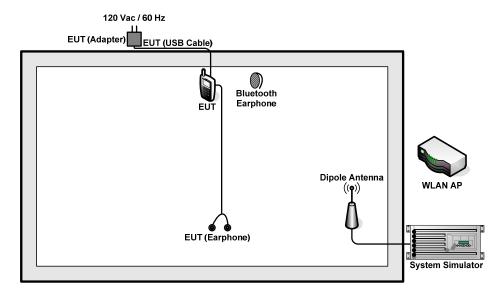
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 2 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + MPEG4 + SIM 1 <fig.1></fig.1>
		Mode 3: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link with Notebook) + GPS Rx + SIM 1 <fig.2></fig.2>
	6Hz 1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 2 <fig.1></fig.1>
Radiated Emissions < 1GHz		Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + MPEG4 + SIM 1 <fig.1></fig.1>
		Mode 3: LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link with Notebook) + GPS Rx + SIM 1 <fig.2></fig.2>
Radiated	1/0	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + MPEG4 + SIM 1 <fig.1></fig.1>
Emissions ≥ 1GHz	1/2	Mode 2 LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link with Notebook) + GPS Rx + SIM 1 <fig.2></fig.2>

Remark:

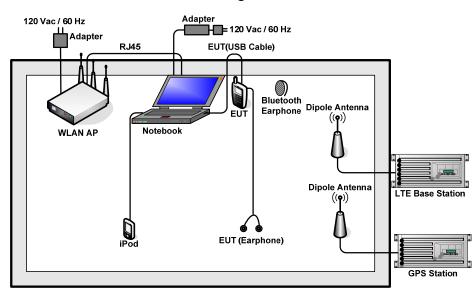
- 1. The worst case of AC is mode 1; and the USB Link mode of AC is mode 3; the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 2; and the USB Link mode of RE is mode 3, the test data of these mode are reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 9 of 25
Report Issued Date : May 14, 2015
Report Version : Rev. 01

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 10 of 25 Report Issued Date : May 14, 2015

Report No. : FC540402

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.	LTE Base Station	Anitsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-615	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-link	DIR-815	KA2IR815A1	N/A	Unshielded, 1.8 m
6.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8 m
7.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
8.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
9.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
10.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A
11.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE 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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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

TEL: 86-755-8637-9589

Page Number : 11 of 25
Report Issued Date : May 14, 2015

Report No. : FC540402

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

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

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 12 of 25 Report Issued Date : May 14, 2015

Report No. : FC540402

3.1.4 Test Setup

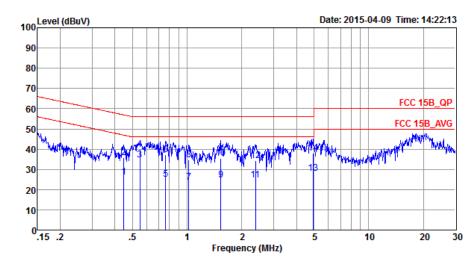


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 13 of 25
Report Issued Date : May 14, 2015

Report No.: FC540402

3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22 ℃
Test Engineer :	Jack Tian	Relative Humidity: 41~42%	
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)		
Function Type :	+ Earphone + Camera + SIN	12	



Site : CO01-SZ

Condition: FCC 15B_QP LISN_L_20140304 LINE

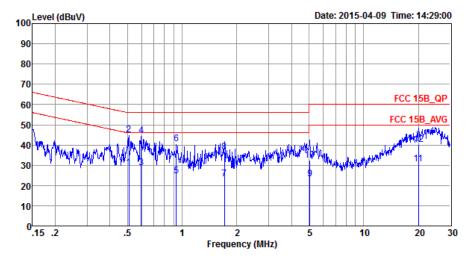
Project : (FC)540402 Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBu₹	dB	dB	
1	0.45		-20.84	46.89	15.60	0.29		Average
2	0.45	35.75	-21.14	56.89	25.30	0.29	10.16	QP
3 '	* 0.55	34.82	-11.18	46.00	24.40	0.27	10.15	Average
4	0.55	39.82	-16.18	56.00	29.40	0.27	10.15	QP
5	0.76	24.95	-21.05	46.00	14.60	0.20	10.15	Average
6	0.76	37.15	-18.85	56.00	26.80	0.20	10.15	QP
7	1.02	23.51	-22.49	46.00	13.10	0.26	10.15	Average
8	1.02	34.71	-21.29	56.00	24.30	0.26	10.15	QP
9	1.54	24.61	-21.39	46.00	14.20	0.24	10.17	Average
10	1.54	35.41	-20.59	56.00	25.00	0.24	10.17	QP
11	2.38	24.86	-21.14	46.00	14.40	0.26	10.20	Average
12	2.38	34.26	-21.74	56.00	23.80	0.26	10.20	QP
13	4.93	27.96	-18.04	46.00	17.30	0.42	10.24	Average
14	4.93	38.16	-17.84	56.00	27.50	0.42	10.24	QP

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 14 of 25
Report Issued Date : May 14, 2015
Report Version : Rev. 01



Test Mode :	Mode 1	Temperature :	21~22 ℃			
Test Engineer :	Jack Tian	Relative Humidity :	41~42%			
Test Voltage :	120Vac / 60Hz	Phase :	Neutral			
Function Type:	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)					
Function Type :	+ Earphone + Camera + SIM 2					



: CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

Project : (FC)540402 Mode : Mode 1

		Freq	Level	Over Limit	Limit Line	Read	LISN Factor	Cable	Remark
		MHz	dBu∀	dB	dBu∇	dBu∀	dB	dB	
1		0.51	28.85	-17.15	46.00	18.29	0.40	10.16	Average
2	*	0.51	45.15	-10.85	56.00	34.59	0.40	10.16	QP
3		0.59	28.88	-17.12	46.00	18.40	0.33	10.15	Average
4		0.59	44.48	-11.52	56.00	34.00	0.33	10.15	QP
5		0.93	24.86	-21.14	46.00	14.40	0.31	10.15	Average
6		0.93	40.66	-15.34	56.00	30.20	0.31	10.15	QP
7		1.71	23.14	-22.86	46.00	12.60	0.36	10.18	Average
8		1.71	36.54	-19.46	56.00	26.00	0.36	10.18	QP
9		5.06	23.43	-26.57	50.00	12.70	0.49	10.24	Average
10		5.06	32.33	-27.67	60.00	21.60	0.49	10.24	QP
11		20.06	30.74	-19.26	50.00	18.40	1.71	10.63	Average
12		20.06	40.04	-19.96	60.00	27.70	1.71	10.63	QP

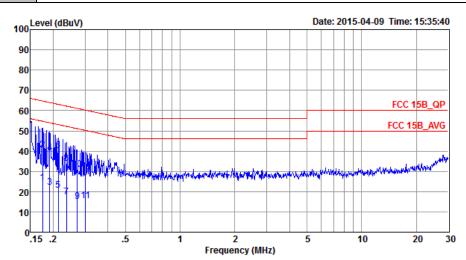
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL

: 15 of 25 Page Number Report Issued Date: May 14, 2015 Report Version : Rev. 01



Test Mode :	Mode 3	Temperature :	21~22 ℃				
Test Engineer :	st Engineer : Jack Tian Relative Humidity		41~42%				
Test Voltage :	120Vac / 60Hz	Phase :	Line				
LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cab							

with Notebook) + GPS Rx + SIM 1



Site : CO01-SZ Condition: FCC 15B_QP LISN_L_20140304 LINE

Project : (FC)540402 Mode : Mode 3

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	dB	
1	0.17	24.34	-30.38	54.72	13.80	0.22	10.32	Average
2	0.17	40.64	-24.08	64.72	30.10	0.22	10.32	QP
3	0.19	22.02	-31.96	53.98	11.50	0.22	10.30	Average
4	0.19	39.02	-24.96	63.98	28.50	0.22	10.30	QP
5	0.21	20.51	-32.59	53.10	10.00	0.23	10.28	Average
6 *	0.21	40.41	-22.69	63.10	29.90	0.23	10.28	QP
7	0.24	17.39	-34.83	52.22	6.91	0.23	10.25	Average
8	0.24	34.09	-28.13	62.22	23.61	0.23	10.25	QP
9	0.27	15.07	-36.00	51.07	4.60	0.25	10.22	Average
10	0.27	31.17	-29.90	61.07	20.70	0.25	10.22	QP
11	0.30	15.56	-34.63	50.19	5.10	0.26	10.20	Average
12	0.30	28.76	-31.43	60.19	18.30	0.26	10.20	QP

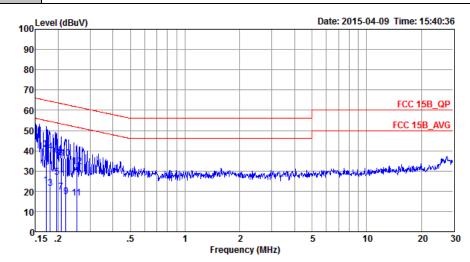
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL

: 16 of 25 Page Number Report Issued Date: May 14, 2015 Report Version : Rev. 01



Test Mode :	Mode 3	Temperature :	21~22℃		
Test Engineer :	Jack Tian	Relative Humidity :	41~42%		
Test Voltage :	120Vac / 60Hz	Phase :	Neutral		
	LTE Band 7 Idla + Bluetooth Idla + WLAN Idla + Earnhona + USB Cable (Data Lir				

LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link Function Type: with Notebook) + GPS Rx + SIM 1



: CO01-SZ

Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL

Project : (FC)540402 Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable	Remark
	MHz	dBu∀	dB	dBu∇	dBu∇	dB	dB	
1	0.17	23.05	-31.85	54.90	12.39	0.33	10.33	Average
2 *	0.17	40.55	-24.35	64.90	29.89	0.33	10.33	QP
3	0.18	21.54	-32.92	54.46	10.90	0.32	10.32	Average
4	0.18	39.34	-25.12	64.46	28.70	0.32	10.32	QP
5	0.20	26.92	-26.84	53.76	16.30	0.32	10.30	Average
6	0.20	37.82	-25.94	63.76	27.20	0.32	10.30	QP
7	0.21	19.71	-33.61	53.32	9.10	0.32	10.29	Average
8	0.21	36.41	-26.91	63.32	25.80	0.32	10.29	QP
9	0.22	17.20	-35.59	52.79	6.60	0.33	10.27	Average
10	0.22	36.30	-26.49	62.79	25.70	0.33	10.27	QP
11	0.25	16.48	-35.16	51.64	5.90	0.34	10.24	Average
12	0.25	32.18	-29.46	61.64	21.60	0.34	10.24	QP

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

: 17 of 25 Page Number Report Issued Date: May 14, 2015 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.
- 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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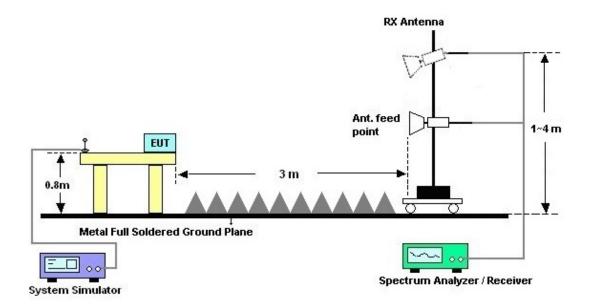
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 18 of 25
Report Issued Date : May 14, 2015
Report Version : Rev. 01

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

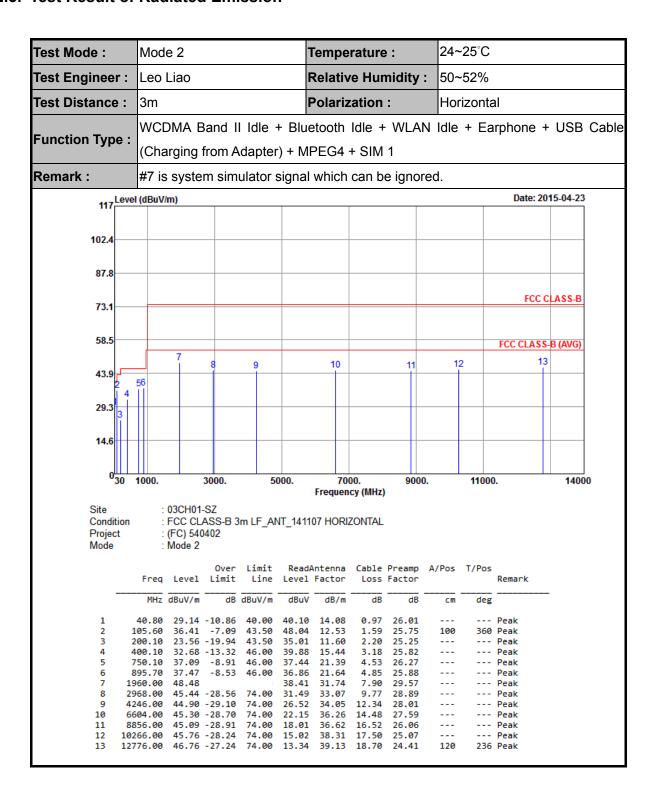


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 19 of 25

Report No. : FC540402

Report Issued Date: May 14, 2015

3.2.5. Test Result of Radiated Emission



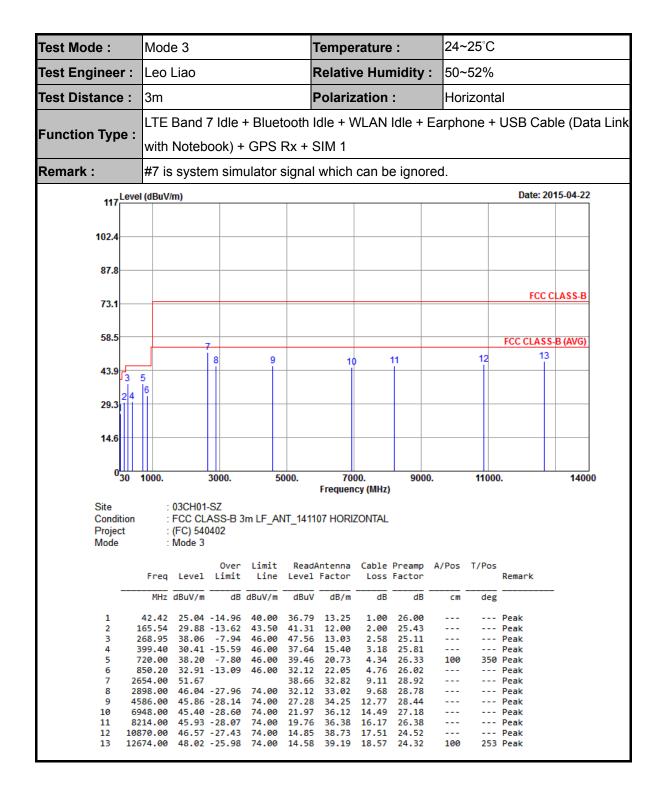
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 20 of 25
Report Issued Date : May 14, 2015
Report Version : Rev. 01



Test Mode :	Mode 2		Temperature):	24~25°C		
Test Engineer :	Leo Liao		Relative Hur	nidity :	50~52%		
Test Distance :	3m		Polarization	:	Vertical		
Function Type :	WCDMA Band (Charging from				ldle + Ea	arphone + US	SB Cable
Remark :	#7 is system si	mulator signal	which can b	e ignored	l		
117 Level	(dBuV/m)					Date: 2015-04	-22
102.4							
87.8							
73.1						FCC CLASS	5 <u>-B</u>
58.5	7 8	9	10	11	12	FCC CLASS-B (AV	/G)
43.9		9	10				
29.3							
030 Site Condition Project Mode	: 03CH01-SZ : FCC CLASS-E : (FC) 540402 : Mode 2	5000. 3 3m LF_ANT_1411	7000. Frequency (MHz) 107 VERTICAL	9000.	11000	0. 1	4000
	Freq Level Lim:	it Line Level		Preamp A, Factor ———— dB		Remark	
2 1 3 1 4 4 5 6 6 7 7 19 8 29 9 46	31.08 37.90 -2.1 10.19 38.12 -5.1 90.92 24.66 -18.1 00.80 37.72 -8.1 50.00 41.13 -4.1	10 40.00 44.01 38 43.50 49.00 34 43.50 36.24 28 46.00 44.92 37 46.00 43.33 30 46.00 41.53 38.47 37 74.00 31.46 37 74.00 25.50	19.09 0.86 13.22 1.65 11.56 2.16 15.44 3.18 20.00 4.21 20.53 4.29 31.74 7.90 33.06 9.77 34.30 12.76	26.06 25.72 25.30 25.82 26.41 26.35 29.57 28.86 28.43		QP Peak Peak Peak Peak Peak Peak Peak Pea	
11 87 12 107	60.00 45.42 -28.1 16.00 45.30 -28.3 30.00 46.93 -27.0	58 74.00 18.28 70 74.00 14.04	36.50 16.78 38.63 17.19	26.14 24.56		Peak Peak Peak	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 21 of 25 Report Issued Date: May 14, 2015 Report Version : Rev. 01

Report No. : FC540402



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

: 22 of 25 Page Number Report Issued Date: May 14, 2015 Report Version : Rev. 01

FCC Test Report

Test Mode :	Mode 3		Temperatur	e:	24~25°C				
Test Engineer :	Leo Liao		Relative Hu	midity:	50~52%				
Test Distance :	3m		Polarization	:	Vertical				
Function Type :	LTE Band 7	7 Idle + Bluetoot	h Idle + WLAN	Idle + Ea	arphone +	USB Cable (Da	ata Link		
	with Notebo	ook) + GPS Rx	+ SIM 1	SIM 1					
Remark :	#8 is syste	m simulator sigr	al which can b	e ignored	d.				
117 Level	(dBuV/m)					Date: 2015-04-2	2		
102.4									
87.8									
73.1						FCC CLASS-B			
50.5									
58.5	7		40	11	12	FCC CLASS-B (AVG)			
43.9	5 6	9	10						
29.3									
14.6									
030	1000.	3000. 5000.	7000.	9000.	11000	0. 140			
30	1000.	3000. 5000.	Frequency (MHz		11000	J. 140	00		
Site Condition		ASS-B 3m LF_ANT_1	41107 VERTICAL						
Project Mode	: (FC) 540 : Mode 3	402							
	Freq Level		adAntenna Cable el Factor Loss	Preamp A Factor	/Pos T/Pos	Remark			
	MHz dBuV/m	dB dBuV/m dE	BuV dB/m dB	dB	cm deg				
		-13.14 40.00 33. -13.72 43.50 41.		26.05 25.42		Peak Peak			
3 2	83.80 33.42	-12.58 46.00 42.	27 13.57 2.65	25.07		Peak			
5 7	20.00 37.57	-15.38 46.00 35. -8.43 46.00 38.	83 20.73 4.34	26.15 26.33		Peak Peak			
		-7.43 46.00 37. -27.39 74.00 34.		25.49 29.26		Peak Peak			
8 26	56.00 51.78	38.	77 32.82 9.11	28.92		Peak			
		-29.33 74.00 25. -28.56 74.00 23.				Peak Peak			
11 88	40.00 46.19	-27.81 74.00 19.	14 36.60 16.52	26.07		Peak			
		-26.47 74.00 16. -25.81 74.00 14.				Peak Peak			

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 23 of 25
Report Issued Date : May 14, 2015
Report Version : Rev. 01

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Apr. 22, 2015~ Apr. 23, 2015	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Apr. 22, 2015~ Apr. 23, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Apr. 22, 2015~ Apr. 23, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Apr. 22, 2015~ Apr. 23, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1707137	1GHz~18GHz	May 08, 2014	Apr. 22, 2015~ Apr. 23, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Apr. 22, 2015~ Apr. 23, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 22, 2015~ Apr. 23, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 22, 2015~ Apr. 23, 2015	NCR	Radiation (03CH01-SZ)
EMI TEST Receiver	R&S	ESCI7	100768	9kHz~3GHz	May 04, 2014	Apr. 09, 2015	May 03, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Feb. 02, 2015	Apr. 09, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Feb. 02, 2015	Apr. 09, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Sep. 29, 2014	Apr. 09, 2015	Sep. 28, 2015	Conduction (CO01-SZ)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 24 of 25
Report Issued Date : May 14, 2015

Report No. : FC540402



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.3dB
=======================================	1

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

Measuring Uncertainty for a Level of	0.040
Confidence of 95% (U = 2Uc(y))	3.9dB

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 25 of 25
Report Issued Date : May 14, 2015

Report No. : FC540402