FCC Test Report

APPLICANT : Lemobile Information Technology (Beijing)

Co., Ltd.

: mobile phone EQUIPMENT

BRAND NAME : Letv

MODEL NAME : Le 1 Pro

FCC ID : 2AFWMLE1PRO

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION : Certification

The product was received on Aug. 25, 2015 and testing was completed on Sep. 28, 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.

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SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 1 of 28

Report Issued Date: Sep. 29, 2015

Report No.: FC582501

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	5 6 6
2.	2.1. 2.2. 2.3. 2.4.	Support Unit used in test configuration and system	9 12
3.	3.1. 3.2.	Test of AC Conducted Emission Measurement Test of Radiated Emission Measurement	15
		OF MEASURING EQUIPMENT	
ΑP	PEND	IX A. SETUP PHOTOGRAPHS	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 2 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC582501	Rev. 01	Initial issue of report	Sep. 29, 2015

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 3 of 28
Report Issued Date : Sep. 29, 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	9.25 dB at
					0.540 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	4.10 dB at
					38.100 MHz

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 4 of 28

Report No.: FC582501

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1. General Description

1.1. Applicant

Lemobile Information Technology (Beijing) Co., Ltd.

WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING.China

1.2. Manufacturer

Lemobile Information Technology (Beijing) Co., Ltd.

WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING.China

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	mobile phone
Brand Name	Letv
Model Name	Le 1 Pro
FCC ID	2AFWMLE1PRO
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/DC-HSDPA/LTE/ANT+ WLAN2.4GHz 802.11b/g/n HT20/HT40 WLAN5GHz 802.11a/n HT20/HT40 WLAN5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0+EDR/Bluetooth v4.1 LE
IMEI Code	Radiation: 868126020003301/868126020003319 Conduction: 868126020002824/868126020002832
HW Version	DVT3.2
SW Version	5.0.008S
EUT Stage	Identical Prototype

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: 2AFWMLE1PRO Page Number : 5 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

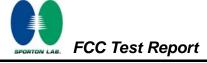
1.4. Product Specification subjective to this standard

GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band V: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 848.31 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA2000 BC0: 1851.25 MHz ~ 1908.75 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 2: 1850.7 MHz ~ 1754.3 MHz LTE Band 5: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 1850.7 MHz ~ 141.3 MHz LTE Band 5: 1850.7 MHz ~ 848.3 MHz LTE Band 55: 1850.7 MHz ~ 1944.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 55: 1850.7 MHz ~ 1914.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 6745 MHz ~ 5320 MHz ~ 838.8 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band IV: 2112.4 MHz ~ 893.3 MHz UCDMA Band IV: 2112.4 MHz ~ 1987.6 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz BO2.11b/g/n: 2412 MHz ~ 2460 MHz S02.11a/n/ac: 5180 MHz ~ 5240 MHz S02.11b/g/n: 2412 MHz ~ 2460 MHz S02.11b/g/n: 2412 MHz ~ 2460 MHz GO2.11b/g/n: 2412 MHz ~ 2460 MHz GO2.11b/g/n: 2412 MHz ~ 2460 MHz GO3.11b/g/n: 2412 MHz ~ 2460 MHz GN4N : PIFA Antenna Bluetooth: PIFA Antenna Bluetooth: PIFA Antenna	Product Specif	ication subjective to this standard
GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band IV: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz 802.11b/gn: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz Bluetooth: 2402 MHz ~ 2480 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 893.6 MHz WCDMA Band V: 871.4 MHz ~ 893.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz CDMA2000 BC1: 1931.25 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 5: 869.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 5: 869.7 MHz ~ 869.7	Trouder opeon	-
WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band IV: 1824.4 MHz ~ 1907.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 2: 1850.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 2: 1850.7 MHz ~ 1914.3 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz Boz.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2460 MHz S260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz Bluetoott: 2402 MHz ~ 2893.8 MHz GSMB50: 869.2 MHz ~ 2893.8 MHz GSMB50: 869.2 MHz ~ 2898.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band V: 2112.4 MHz ~ 2152.6 MHz WCDMA Band V: 2112.4 MHz ~ 1987.8 MHz CDMA2000 BC0: 869.70 MHz ~ 1988.75 MHz CDMA2000 BC0: 869.70 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 2454.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 2454.3 MHz LTE Band 3: 869.7 MHz ~ 893.3 MHz LTE Band 4: 2110.7 MHz ~ 2454.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 2: 1930.7 MHz ~ 2454.3 MHz LTE Band 2: 1930.7 MHz ~ 2454.3 MHz LTE Band 2: 1930.7 MHz ~ 2460 MHz S260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz BULETOOTT. 2402 MHz ~ 2480 MHz BULETOOTT. 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + 0.5625MHz (n=-7,-6,-50,6) WWAN: PIFA Antenna BULETOOTT. PIFA Antenna BULETOOTT.		
WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz = 1907.6 MHz CDMA2000 BC0: 824.7 MHz ~ 1907.6 MHz CDMA2000 BC0: 824.7 MHz ~ 1908.75 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 715.3 MHz LTE Band 2: 1850.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 28: 1850.7 MHz ~ 848.3 MHz S02.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 5240 MHz 802.11b/g/n: 25300 MHz ~ 5520 MHz 55260 MHz ~ 5320 MHz ~ 5500 MHz ~ 5700 MHz; 5545 MHz Bluetooth: 2402 MHz ~ 2480 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.6 MHz WCDMA Band V: 871.4 MHz ~ 893.3 MHz UCDMA Band V: 2112.4 MHz ~ 893.3 MHz UCDMA Band V: 2112.4 MHz ~ 1987.6 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz LTE Band 2: 1930.7 MHz ~ 1988.3 MHz LTE Band 2: 1930.7 MHz ~ 1988.3 MHz LTE Band 2: 1930.7 MHz ~ 2154.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 1890.7 MHz ~ 893.3 MHz LTE Band 2: 1890.7 MHz ~ 2154.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 1890.7 MHz ~ 2154.3 MHz LTE Band 2: 1890.7 MHz ~ 2480.4 MHz S02.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2480 MHz Buctooth: 2402 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz Buctooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,6) WWAN: PIFA Antenna Bluetooth: PIFA Antenna Bluetooth: PIFA Antenna Bluetooth: PIFA Antenna Bluetooth: PIFA Antenna		
WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz = 1908.75 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 4: 7710.7 MHz ~ 1754.3 MHz LTE Band 4: 7710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz Band 25: 1850.7 MHz ~ 1914.3 MHz Band 25: 1850.7 MHz ~ 2462 MHz Band 11/4/ac: 5180 MHz ~ 5240 MHz Band 11/4/ac: 5180 MHz ~ 5240 MHz Band 11/4/ac: 5180 MHz ~ 5240 MHz Buetooth: 2402 MHz ~ 2480 MHz Buetooth: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band IV: 2112.4 MHz ~ 281.6 MHz WCDMA Band IV: 2112.4 MHz ~ 1987.6 MHz CDMA2000 BC0: 869.70 MHz ~ 1987.6 MHz CDMA2000 BC0: 869.70 MHz ~ 1987.6 MHz CDM2000 BC0: 869.70 MHz ~ 1988.3 MHz LTE Band 2: 1930.7 MHz ~ 2154.3 MHz LTE Band 2: 1730.7 MHz ~ 2154.3 MHz LTE Band 2: 1730.7 MHz ~ 2154.3 MHz LTE Band 2: 1730.7 MHz ~ 1989.3 MHz LTE Band 2: 1730.7 MHz ~ 1989.3 MHz LTE Band 2: 1830.7 MHz ~ 2462 MHz Band 17: 736.5 MHz ~ 745.3 MHz LTE Band 2: 1830.7 MHz ~ 2462 MHz Band 17: 736.5 MHz ~ 893.3 MHz LTE Band 2: 1830.7 MHz ~ 2462 MHz Band 18: 7530 MHz ~ 5320 MHz; 5500 MHz; 5200 MHz; 5500 MHz ~ 8700 MHz; 5700 MHz; 5700 MHz ~ 8700 MHz; 5700 MHz;		
CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 12: 689.7 MHz ~ 713.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 2: 1850.7 MHz ~ 179.9 3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 25: 1850.7 MHz ~ 848.3 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz 802.11b/g/n: 2412 MHz ~ 848.3 MHz LTE Band 25: 1850.7 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM190: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 371.4 MHz ~ 891.6 MHz WCDMA Band V: 2112.4 MHz ~ 2152.6 MHz WCDMA Band V: 2112.4 MHz ~ 2152.6 MHz CDMA2000 BC0: 889.70 MHz ~ 893.3 MHz LTE Band 2: 1930.7 MHz ~ 1988.75 MHz LTE Band 2: 1930.7 MHz ~ 1988.3 MHz LTE Band 2: 1930.7 MHz ~ 1988.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 2480 MHz B02.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 803.3 MHz Bluetooth: 2402 MHz ~ 2480 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 12: 699.7 MHz ~ 713.5 MHz LTE Band 12: 699.7 MHz ~ 713.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 8150.7 MHz ~ 1914.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GSM1900: 1930.2 MHz ~ 2480 MHz WCDMA Band IV: 2112.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 893.31 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 1: 1732.4 MHz ~ 1987.6 MHz LTE Band 1: 2110.7 MHz ~ 2154.3 MHz LTE Band 1: 736.5 MHz ~ 1989.3 MHz LTE Band 1: 7736.5 MHz ~ 743.5 MHz LTE Band 1: 7736.5 MHz ~ 743.5 MHz LTE Band 2: 1930.7 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 5240 MHz; 5745 MHz ~ 5320 MHz ~ 5320 MHz Bluetooth: 2402 MHz ~ 5320 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 5320 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,6) WWAN: PIFA Antenna Bluetooth: PIFA Antenna		
Tx Frequency LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 17: 706.5 MHz ~ 7154.3 MHz LTE Band 17: 706.5 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 2: 1850.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 1914.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2460 MHz 802.11b/g/n: 2412 MHz ~ 2480 MHz 802.11b/g/n: 2402 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM850: 869.2 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2915.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band IV: 1932.4 MHz ~ 1987.6 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC0: 1893.25 MHz ~ 1989.3 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 745.3 MHz LTE Band 5: 869.7 MHz ~ 745.3 MHz LTE Band 5: 889.7 MHz ~ 745.3 MHz LTE Band 26: 1890.7 MHz ~ 2480.4 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2460 MHz 802.11b/g/n: 2412 MHz ~ 2460 MHz 802.11b/g/n: 2412 MHz ~ 2460 MHz 802.11b/g/n: 2412 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
Tx Frequency LTE Band 4: 171.7 0.6.5 MHz ~ 713.5 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 1850.7 MHz ~ 1914.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 25240 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz 5745 MHz ~ 5320 MHz ~ 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band IV: 2112.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 1987.6 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC0: 1893.125 MHz ~ 1988.75 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 4: 2170.7 MHz ~ 893.3 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 25: 1930.7 MHz ~ 893.3 MHz LTE Band 26: 859.7 MHz ~ 893.3 MHz LTE Band 26: 859.7 MHz ~ 893.3 MHz LTE Band 27: 1930.7 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5320 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
Tx Frequency LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 1212.4 MHz ~ 2152.6 MHz WCDMA Band IV: 1212.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz CDMA2000 BC0: 869.70 MHz ~ 1989.3 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz LTE Band 2: 1930.7 MHz ~ 1988.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 1930.7 MHz ~ 1983.3 MHz LTE Band 6: 210.7 MHz ~ 2154.3 MHz LTE Band 6: 859.7 MHz ~ 193.3 MHz LTE Band 5: 1893.7 MHz ~ 194.3 MHz LTE Band 2: 1930.7 MHz ~ 2480 MHz LTE Band 2: 729.7 MHz ~ 743.5 MHz LTE Band 2: 1930.7 MHz ~ 2462 MHz B02.11b/g/n: 2412 MHz ~ 2462 MHz		
LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 26: 1850.7 MHz ~ 1914.3 MHz 802.11b/g/n : 2412 MHz ~ 2462 MHz 802.11b/g/n : 2412 MHz ~ 2462 MHz 802.11b/g/n : 5580 MHz ~ 5540 MHz * 5700 MHz ; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz ; 5745 MHz ~ 5625 MHz Bluetooth: 2402 MHz ~ 2480 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1989.3 MHz CDMA2000 BC0 : 869.70 MHz ~ 893.31 MHz CDMA2000 BC1 : 1931.25 MHz ~ 1989.3 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 893.3 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz LTE Band 27 : 736.5 MHz ~ 743.5 MHz LTE Band 27 : 736.5 MHz ~ 743.5 MHz LTE Band 28 : 859.7 MHz ~ 893.3 MHz LTE Band 27 : 736.5 MHz ~ 743.5 MHz LTE Band 27 : 736.5 MHz ~ 743.5 MHz LTE Band 28 : 859.7 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna		
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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 CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 17: 736.5 MHz ~ 745.3 MHz LTE Band 25: 1930.7 MHz ~ 1994.3 MHz LTE Band 26: 859.7 MHz ~ 893.3 MHz LTE Band 26: 859.7 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		ANT+: 2402 MHz ~ 2480 MHz
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CDMA2000 BC1 : 1931.25 MHz ~ 1988.75 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+ : 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna		
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802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
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Bluetooth: 2402 MHz ~ 2480 MHz ANT+: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		· · · · · · · · · · · · · · · · · · ·
ANT+: 2402 MHz ~ 2480 MHz GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
GPS: 1.57542 GHz Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
Glonass: 1602 MHz + n× 0.5625MHz (n=-7,-6,-5,0,,6) WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna		
WWAN : PIFA Antenna WLAN : PIFA Antenna Antenna Type Bluetooth : PIFA Antenna		
WLAN : PIFA Antenna Antenna Type Bluetooth : PIFA Antenna		
Antenna Type Bluetooth : PIFA Antenna		
	Antenna Type	
I ANT+ : PIFA Antenna		ANT+: PIFA Antenna
GPS/Glonass : PIFA Antenna		

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 6 of 28 Report Issued Date : Sep. 29, 2015

Report No.: FC582501

Report Version : Rev. 01



GSM: GMSK **GPRS: GMSK** EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA / DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) DC-HSDPA: 64QAM HSPA+:16QAM (Downlink only) CDMA2000 : QPSK CDMA2000 1xEV-DO: QPSK/8PSK **Type of Modulation** LTE: QPSK / 16QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM /256QAM) Bluetooth LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps): 8-DPSK ANT+: GFSK GPS/Glonass: BPSK

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 7 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

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				
	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				

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				
Took Cita No	Sporton Site No. FCC Registration No.				
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: 2AFWMLE1PRO Page Number : 8 of 28
Report Issued Date : Sep. 29, 2015

Report No.: FC582501

Report Version : Rev. 01

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.

		Те	st Condition	on
Item	EUT Configuration	EMI	EMI	EMI
		AC	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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 9 of 28
Report Issued Date : Sep. 29, 2015

Report No. : FC582501

Report Version : Rev. 01

Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4 <fig.1></fig.1>
		Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 3: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB Cable (Charging from Adapter) + Battery + Glonass Rx <fig.2></fig.2>
		Mode 4: LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB Cable (Data Link with Notebook) + Battery + GPS Rx <fig.3></fig.3>
		Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Battery + ANT+ <fig.1></fig.1>
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Battery + MPEG4 <fig.1></fig.1>
		Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN (5G) Idle + USB Cable (Charging from Adapter) + Earphone + Battery + Camera <fig.1></fig.1>
Radiated Emissions < 1GHz	1/2	Mode 3: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB Cable (Charging from Adapter) + Battery + Glonass Rx <fig.2></fig.2>
		Mode 4: LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB Cable (Data Link with Notebook) + Battery + GPS Rx <fig.3></fig.3>
		Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter) + Earphone + Battery + ANT+ <fig.1></fig.1>
Radiated	1/0	Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB Cable (Charging from Adapter) + Battery + Glonass Rx <fig.2></fig.2>
Emissions ≥ 1GHz	1/2	Mode 2: LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB Cable (Data Link with Notebook) + Battery + GPS Rx <fig.3></fig.3>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 10 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

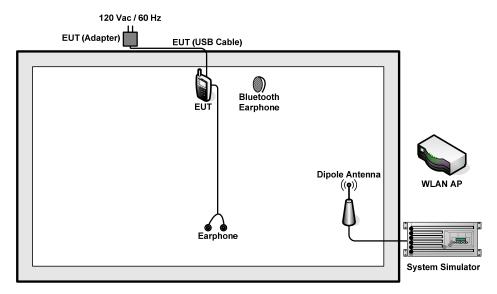


Remark:

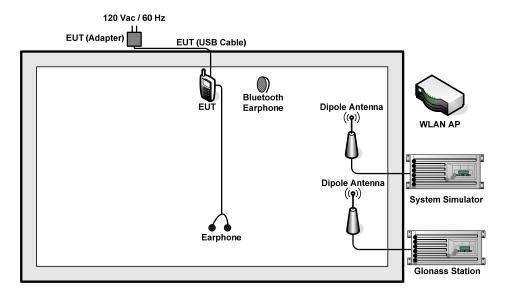
- 1. The worst case of AC is mode 3; and the USB Link mode of AC is mode 4; the test data of these modes were reported.
- 2. The worst case of RE < 1G is mode 3, and the USB Link mode of RE is mode 4, the test data of these modes were reported.
- 3. Link with Notebook means data application transferred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

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 11 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

2.2. Connection Diagram of Test System



<Fig.1>

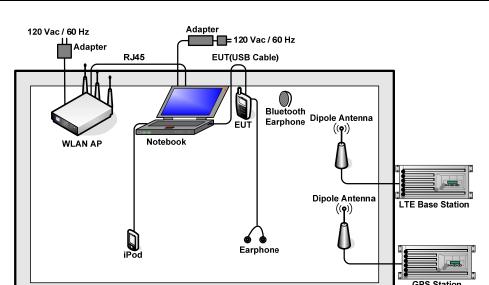


<Fig.2>

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 12 of 28
Report Issued Date : Sep. 29, 2015

Report No.: FC582501

Report Version : Rev. 01



<Fig.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	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	Glonass Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	ASUSTeK	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m
6.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
7.	WLAN AP	D-Link	DIR-615	N/A	N/A	Unshielded, 1.8 m
8.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
10.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
11.	iPod nano8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A
12.	iPod Earphone	Apple	MC690 ZP/A	FCC DoC	Unshielded, 1.6 m	N/A
13.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
14.	MicroSD Card	SanDisk	8G class 4	FCC DoC	N/A	N/A

SPORTON INTERNATIONAL (SHENZHEN) INC.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 13 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or CDMA 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/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.
- 3. Execute "Video Player" to play MPEG4 files.
- 4. Turn on camera to capture images.
- 5. Turn on ANT+ function.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 14 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 15 of 28 Report Issued Date : Sep. 29, 2015

Report No.: FC582501

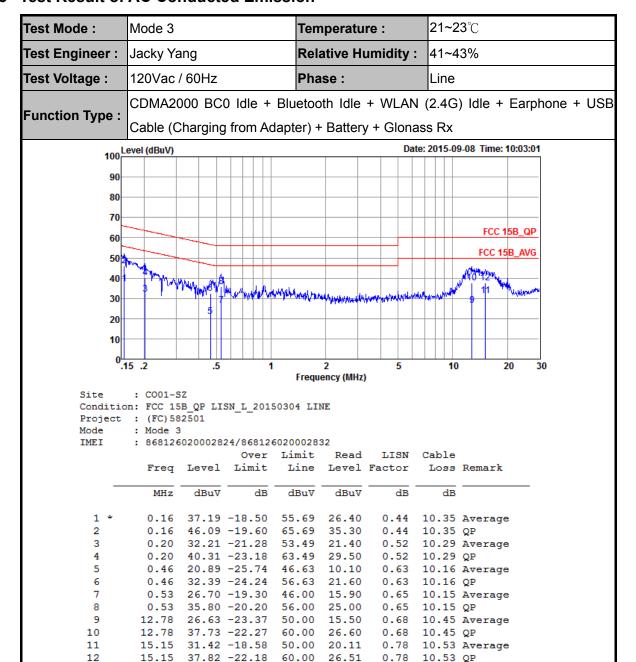
Report Version : Rev. 01

3.1.4 Test Setup



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 16 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

3.1.5 Test Result of AC Conducted Emission



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 17 of 28

Report Issued Date : Sep. 29, 2015

Report Version : Rev. 01



Test Mode :	Mode 3			Ten	nperatu	re:	21~2	23℃		
Test Engineer :	Jacky Ya	ing		Rel	Relative Humidity :			41~43%		
Test Voltage :	120Vac /	60Hz		Pha	Phase: Neutral					
	CDMA20	CDMA2000 BC0 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB								
Function Type :	Cable (C	Cable (Charging from Adapter) + Battery + Glonass Rx								
100 L	evel (dBuV)		<u></u>	' '		•		9-08 Time: 09:59:	:04	
90										
80										
70								FCC 15B_Q	ND.	
60		-								
50	va. 4							FCC 15B_AV	<u>'G</u>	
40	The Market of the Control of the Con	OHINA AND AND AND AND AND AND AND AND AND A						A POR NAME OF THE PARTY OF THE	_	
30		AmMy	****	My Chipory My		manhormalah	the wall	911 "MYLLIANIE	<u>/44</u>	
20									_	
10										
°.1	5 .2	.5	1		2 ency (MHz)	5	10	20	30	
Site	: CO01-S	Z			, , , , , , , , , , , , , , , , , , , ,					
	n: FCC 15	_	SN_N_2015	50304 NE	UTRAL					
Project Mode	: (FC)58 : Mode 3									
IMEI	: 868126	0200028	24/868126		32					
	Pro a	Towal	Over Limit	Limit	Read	LISN Factor	Cable	Remark		
	Freq	Tevel	птштс	Dille	Tevel	ractor	пова	Kellialk		
	MHz	dBu₹	dB	dBu∀	dBu∀	dB	dB			
1	0.15	41.31	-14.60	55.91	30.50	0.45	10.36	Average		
2			-19.50				10.36			
		22 11	-20.82	53.93	22.31	0.50	10.30	Average		
3	0.19		00 50				40 00			
4	0.19	43.41		63.93	32.61	0.50	10.30			
4 5 *	0.19 0.54	43.41 36.75	-9.25	63.93 46.00	32.61 26.00	0.50 0.60	10.15	Average		
4 5 * 6	0.19 0.54 0.54	43.41 36.75 41.35	-9.25 -14.65	63.93 46.00 56.00	32.61 26.00 30.60	0.50 0.60 0.60	10.15 10.15	Average QP		
4 5 * 6 7	0.19 0.54 0.54 1.25	43.41 36.75 41.35 25.23	-9.25 -14.65 -20.77	63.93 46.00 56.00 46.00	32.61 26.00 30.60 14.51	0.50 0.60 0.60 0.56	10.15 10.15 10.16	Average QP Average		
4 5 * 6 7 8	0.19 0.54 0.54 1.25 1.25	43.41 36.75 41.35 25.23 30.13	-9.25 -14.65 -20.77 -25.87	63.93 46.00 56.00 46.00 56.00	32.61 26.00 30.60 14.51 19.41	0.50 0.60 0.60 0.56 0.56	10.15 10.15 10.16 10.16	Average QP Average QP		
4 5 * 6 7	0.19 0.54 0.54 1.25 1.25 12.06	43.41 36.75 41.35 25.23 30.13 28.82	-9.25 -14.65 -20.77	63.93 46.00 56.00 46.00 56.00 50.00	32.61 26.00 30.60 14.51 19.41 17.70	0.50 0.60 0.60 0.56 0.56	10.15 10.15 10.16 10.16 10.42	Average QP Average QP Average		
4 5 * 6 7 8 9	0.19 0.54 0.54 1.25 1.25 12.06	43.41 36.75 41.35 25.23 30.13 28.82 40.12	-9.25 -14.65 -20.77 -25.87 -21.18	63.93 46.00 56.00 46.00 56.00 50.00	32.61 26.00 30.60 14.51 19.41 17.70 29.00	0.50 0.60 0.60 0.56 0.56 0.70	10.15 10.15 10.16 10.16 10.42 10.42	Average QP Average QP Average		

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 18 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01



21~23℃ Test Mode: Mode 4 Temperature: Test Engineer: Jacky Yang **Relative Humidity:** 41~43% Test Voltage: 120Vac / 60Hz Phase: Line LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Earphone + USB Cable Function Type: (Data Link with Notebook) + Battery + GPS Rx 100 Level (dBuV) Date: 2015-09-08 Time: 10:36:57 90 80 70 FCC 15B_QP 60 FCC 15B_AVG 50 40 30 20 10 .15 .2 10 Frequency (MHz) : CO01-SZ Condition: FCC 15B QP LISN L 20150304 LINE Project : (FC) 582501 Mode : Mode 4 : 868126020002824/868126020002832 TMET Over Limit Read LISN Cable Line Level Factor Loss Remark Freq Level Limit MHz dBu∀ dB dBu∀ dBuV 0.25 28.19 -23.63 51.82 17.40 0.55 10.24 Average 0.55 10.24 QP 0.56 10.22 Average 41.49 -20.33 61.82 30.70 27.08 -23.95 51.03 16.30 2 0.25 0.27 0.27 41.18 -19.85 61.03 30.40 0.56 10.22 QP 25.04 -24.05 49.09 14.29 38.24 -20.85 59.09 27.49 0.56 10.19 Average 0.56 10.19 QP 5 0.34 0.34 0.41 22.82 -24.91 47.73 12.10 0.55 10.17 Average 8 0.41 37.32 -20.41 57.73 26.60 0.55 10.17 QP 9 0.57 23.37 -22.63 46.00 12.60 0.62 10.15 Average

0.57 37.87 -18.13 56.00 27.10

0.69 23.40 -22.60 46.00 12.70

0.69 35.70 -20.30 56.00 25.00

10 *

11

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 19 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

0.62 10.15 QP

0.55 10.15 QP

0.55 10.15 Average



Test Mode :	Mode 4			Ten	nperatu	re:	21~2	21~23℃		
Test Engineer :	Jacky Ya	ang		Rel	Relative Humidity :			41~43%		
Test Voltage :	120Vac	/ 60Hz		Pha	Phase :			Neutral		
			lo + Plu		oth Idle + WLAN (2.4G) Idle + Earphone + US					
Function Type:						,	G) luie	Laipilone	; 1 OOD Ca	
	(Data Li	nk with i	<u> потероо</u>	k) + Bati	tery + G			0.00 Ti 40.00	40	
100 L	evel (dBuV)				\top	Dai	e: 2015-0	9-08 Time: 10:39	:13	
90										
80										
70										
70								FCC 15B_C	ND.	
60		-								
50					-			FCC 15B_AV	<u>/G</u>	
40		14 j	19.0							
	Myddy I allo	(#T) Mys. Je	Manua.	سيجيرالياب	Nacidat al construction of	والمراسم والكنائلان	Maria Lab	Land of Property and an		
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20										
10										
0_										
1	5 .2	.5	1		2 iency (MHz)	5 \	10	20	30	
Site	: CO01-5	37		rroqu	oney (mile)	'				
	n: FCC 15		SN N 201	50304 NE	UTRAL					
Project	: (FC)58	32501								
Mode IMEI	: Mode 4									
THEI	. 000121	50200028	24/86812	ミロンロロロンと :	32					
		50200028	24/868120 Over			LISN	Cable			
	Freq	50200028: Level	Over	Limit			Cable Loss	Remark		
_		Level	Over Limit	Limit Line	Read Level	Factor	Loss	Remark	-	
_	Freq		Over	Limit	Read			Remark	-	
_		Level dBuV	Over Limit	Limit Line dBuV	Read Level dBuV	Factor dB	Loss		-	
1 2	MHz 0.25	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level	Factor dB	Loss	Average	-	
	MHz 0.25 0.25 0.27	dBuV 28.40 42.60 29.49	Over Limit dB -23.46 -19.26 -21.67	Limit Line dBuV 51.86 61.86	Read Level dBuV	dB 0.55 0.55	Loss dB 10.25 10.25	Average		
2 3 4	MHz 0.25 0.25 0.27	dBuV 28.40 42.60 29.49	Over Limit dB -23.46 -19.26 -21.67	Limit Line dBuV 51.86 61.86	Read Level dBuV 17.60 31.80 18.69 31.89	dB 0.55 0.55	Loss dB 10.25 10.25	Average QP Average		
2 3 4 5	MHz 0.25 0.25 0.27 0.27 0.37	dBuV 28.40 42.60 29.49 42.69 22.14	Over Limit dB -23.46 -19.26 -21.67 -18.47 -26.33	Limit Line dBuV 51.86 61.86 51.16 61.16 48.47	Read Level dBuV 17.60 31.80 18.69 31.89 11.40	0.55 0.55 0.57 0.57 0.56	Loss dB 10.25 10.25 10.23 10.23 10.18	Average QP Average QP Average		
2 3 4 5 6	MHz 0.25 0.25 0.27 0.27 0.37 0.37	28.40 42.60 29.49 42.69 22.14 36.34	Over Limit dB -23.46 -19.26 -21.67 -18.47 -26.33 -22.13	Limit Line dBuV 51.86 61.86 51.16 61.16 48.47 58.47	Read Level dBuV 17.60 31.80 18.69 31.89 11.40 25.60	dB 0.55 0.55 0.57 0.57 0.56 0.56	dB 10.25 10.25 10.23 10.23 10.18 10.18	Average QP Average QP Average QP		
2 3 4 5 6 7	MHz 0.25 0.25 0.27 0.27 0.37 0.37 0.41	dBuV 28.40 42.60 29.49 42.69 22.14 36.34 23.52	Over Limit dB -23.46 -19.26 -21.67 -18.47 -26.33 -22.13 -24.21	Limit Line dBuV 51.86 61.86 51.16 61.16 48.47 58.47 47.73	Read Level dBuV 17.60 31.80 18.69 31.89 11.40 25.60 12.80	dB 0.55 0.55 0.57 0.57 0.56 0.56 0.55	Loss dB 10.25 10.25 10.23 10.23 10.18 10.18 10.17	Average QP Average QP Average QP Average		
2 3 4 5 6 7 8	MHz 0.25 0.25 0.27 0.27 0.37 0.37 0.41 0.41	Level 28.40 42.60 29.49 42.69 22.14 36.34 23.52 38.32	Over Limit -23.46 -19.26 -21.67 -26.33 -22.13 -24.21 -19.41	Limit Line dBuV 51.86 61.86 51.16 61.16 48.47 58.47 47.73 57.73	Read Level 17.60 31.80 18.69 31.89 11.40 25.60 12.80 27.60	dB 0.55 0.55 0.57 0.57 0.56 0.56 0.55 0.55	dB 10.25 10.25 10.23 10.23 10.18 10.18 10.17 10.17	Average QP Average QP Average QP Average QP Average QP		
2 3 4 5 6 7 8 9	MHz 0.25 0.25 0.27 0.27 0.37 0.37 0.41 0.41 0.57	Level 28.40 42.60 29.49 42.69 22.14 36.34 23.52 38.32 25.14	Over Limit -23.46 -19.26 -21.67 -18.47 -26.33 -22.13 -24.21 -19.41 -20.86	Limit Line dBuV 51.86 61.86 51.16 61.16 48.47 58.47 47.73 57.73 46.00	Read Level 17.60 31.80 18.69 31.89 11.40 25.60 12.80 27.60 14.40	dB 0.55 0.55 0.57 0.57 0.56 0.56 0.55 0.55	dB 10.25 10.25 10.23 10.23 10.18 10.17 10.17 10.17	Average QP Average QP Average QP Average QP Average QP Average		
2 3 4 5 6 7 8 9	MHz 0.25 0.25 0.27 0.27 0.37 0.37 0.41 0.57 0.57	Level 28.40 42.60 29.49 42.69 22.14 36.34 23.52 38.32 25.14 39.44	Over Limit -23.46 -19.26 -21.67 -18.47 -26.33 -22.13 -24.21 -19.41 -20.86 -16.56	Limit Line dBuV 51.86 61.86 51.16 61.16 48.47 58.47 47.73 57.73 46.00 56.00	Read Level 17.60 31.80 18.69 31.89 11.40 25.60 12.80 27.60 14.40 28.70	Pactor dB 0.55 0.55 0.57 0.57 0.56 0.56 0.55 0.55 0.59 0.59	dB 10.25 10.25 10.23 10.23 10.18 10.18 10.18 10.17 10.17	Average QP Average QP Average QP Average QP Average QP		
2 3 4 5 6 7 8 9	MHz 0.25 0.25 0.27 0.27 0.37 0.37 0.41 0.41 0.57 0.57 0.65	Level 28.40 42.60 29.49 42.69 22.14 36.34 23.52 38.32 25.14 39.44 21.81	Over Limit -23.46 -19.26 -21.67 -18.47 -26.33 -22.13 -24.21 -19.41 -20.86	Limit Line dBuV 51.86 61.86 51.16 61.16 48.47 47.73 57.73 46.00 56.00 46.00	Read Level 17.60 31.80 18.69 31.89 11.40 25.60 12.80 27.60 14.40 28.70 11.10	Pactor dB 0.55 0.55 0.57 0.57 0.56 0.56 0.55 0.59 0.59 0.59 0.56	dB 10.25 10.25 10.23 10.23 10.18 10.18 10.18 10.17 10.17	Average QP Average QP Average QP Average QP Average QP Average		

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 20 of 28
Report Issued Date : Sep. 29, 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)
- Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 21 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

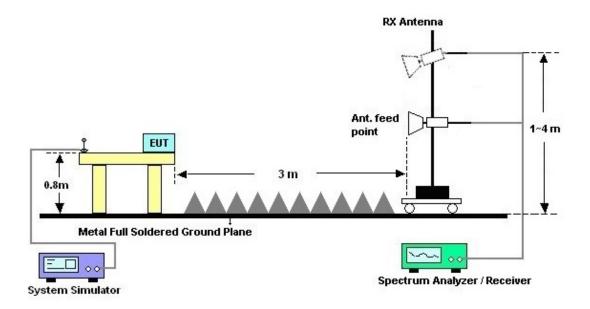
FCC Test Report No.: FC582501

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

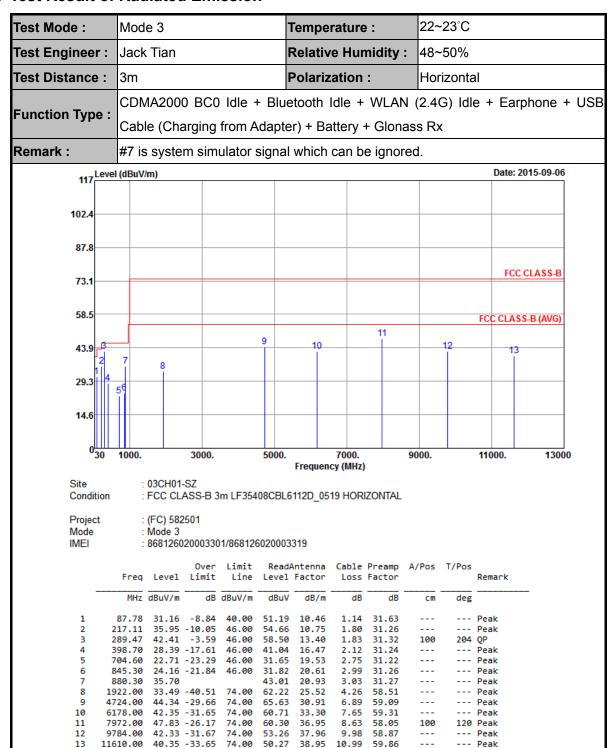


For radiated emissions above 1GHz



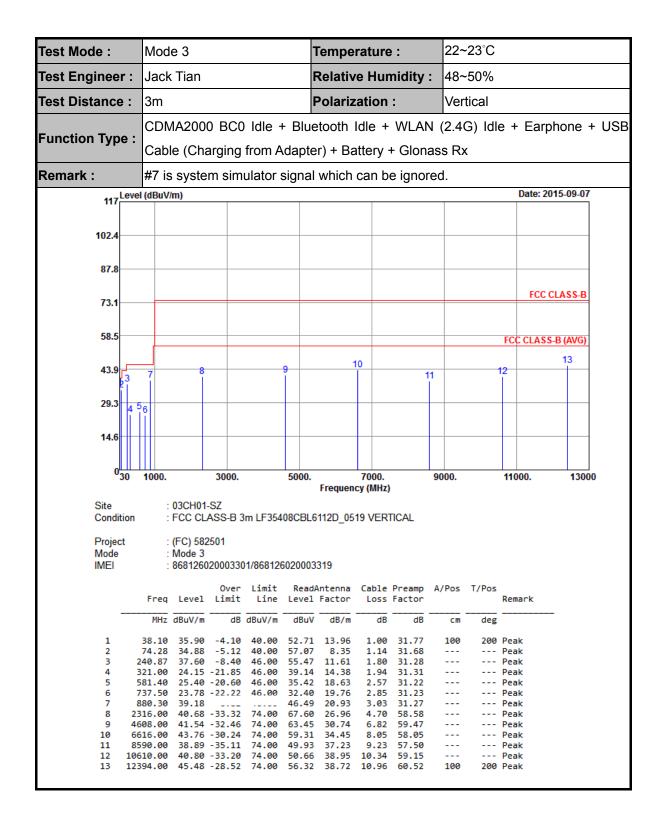
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 22 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

3.2.5. Test Result of Radiated Emission



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 23 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

FCC Test Report Report No.: FC582501



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 24 of 28 Report Issued Date: Sep. 29, 2015 Report Version : Rev. 01

FCC Test Report

Test Mode :	Mode 4		Temperatu	ıre :	22~23°C						
Test Engineer :	Jack Tian		Relative H	umidity:	48~50%						
Test Distance :	3m		Polarization : Horizontal								
Function Type :			th Idle + WLAN (2.4G) Idle + Earphone + USB Cal Battery + GPS Rx								
Remark :	#7 is system sir	7 is system simulator signal which can be ignored.									
117 Level	I (dBuV/m)					Date: 2015-0	9-28				
102.4											
87.8											
73.1						FCC CLAS	S-B				
58.5					12	FCC CLASS-B (A	NG)				
43.9	7 8	9	10	11		13					
14.6	6										
030	1000. 3000	. 5000.	700 Frequency (M		000.	11000.	13000				
Site Condition Project Mode IMEI	: (FC) 582501 : Mode 4	3m LF35408CBL	6112D_0519 H								
	Freq Level Limi	t Line Level		le Preamp A ss Factor		Remark					
2 1 3 2 4 3 5 5 6 7 7 7 8 21 9 43 10 64	MHz dBuV/m d 99.66 22.58 -20.9 .56.63 24.42 -19.0 .52.75 37.48 -8.5 .91.00 32.80 -13.2 .88.40 29.56 -16.4 .20.00 29.23 -16.7 .40.30 42.92 .90.00 37.66 -36.3 .26.00 37.35 -36.6 .88.00 44.06 -29.9 .72.00 48.43 -25.5	8 43.50 45.08 2 46.00 56.67 0 46.00 47.21 4 46.00 40.46 7 46.00 38.68 52.06 4 74.00 65.23 5 74.00 60.33	7 12.30 1. 8 11.04 1. 7 12.08 1. 1 16.26 2. 5 18.70 2. 8 19.64 2. 5 19.78 2. 8 26.54 4. 2 30.30 6. 8 34.13 7.	dB dB 38 33.37 53 33.23 83 33.10 12 32.79 57 32.17 75 31.84 85 31.77 56 58.67 59.83 98 58.18 90 57.59	100 122 	Peak Peak Peak Peak Peak Peak Peak Peak					
12 104	24.00 49.88 -24.1 22.00 46.63 -27.3	2 74.00 60.07	7 38.69 10.	13 59.01	100 200	Peak Peak					

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 25 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01

SPORTON LAB.	FCC Test Report

Test Mode :	N	Mode 4					Tempe	perature :			22~23°C			
Test Engineer	: .	lack	Tian			Relative Humidity :					48~50%			
Test Distance	: 3	3m					Polari	zation	:	Ver	Vertical			
Function Type	LTE Band 17 Idle + Blueton							oth Idle + WLAN (2.4G) Idle + Earphone + USB Cable						
i unction type	(Data	a Link	with N	loteboo	ok) +	Battery	/ + GF	'S Rx					
Remark :	#	#6 is system simulator signal which can be ignored.												
117 Le	evel (dBuV/m) Date: 2015-09-07												
102.4														
87.8														
73.1												FCC	CLASS-B	
58.5											12	FCC CLAS	S-B (AVG)	
43.9	6	_		3 9			10 		11		<u> </u>	1	13	
20.2	3 5 7 4 1	,												
29.3														
14.6														
030	Щ	000.		3000.		5000.		7000.		9000.		11000.	1300	10
30	, ,	000.		3000.		3000.	Frequer	icy (MHz)	9000.		11000.	1300	
Site Condition	on		03CH01- FCC CL		3m LF354	08CBL	6112D_0	19 VER	TICAL					
Project			(FC) 582	2501										
Mode IMEI			Mode 4 8681260	2000330)1/868126	6020003	3319							
		Fren	Level	Over	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark		
_			dBuV/m		dBuV/m	dBuV					deg		_	
1					40.00				33.38	100		Peak		
2 3	258	8.96	34.31	-11.69	40.00 46.00	53.28	12.29	1.83	33.35 33.09			Peak Peak		
4 5					46.00 46.00				32.78 32.15			Peak Peak		
6			41.08		.5.00		19.78		31.77			Peak		
7			32.06				20.20		31.59			Peak		
8 9					74.00 74.00				58.80 59.39			Peak Peak		
10					74.00			7.59				Peak		
11	8004	4.00	47.52	-26.48	74.00	59.76	37.00	8.63	57.87			Peak		
12					74.00				58.88	100		Peak		
13	1109	9.00	43./4	-20.20	74.00	30.36	30.09	16.02	60.16			Peak		

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO

: 26 of 28 Page Number Report Issued Date: Sep. 29, 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 Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Sep. 08, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Sep. 08, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Sep. 08, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Sep. 29, 2014	Sep. 08, 2015	Sep. 28, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Sep. 08, 2015	Oct. 23, 2015	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Sep. 06, 2015~ Sep. 28, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014 Sep. 24, 2015	Sep. 06, 2015~ Sep. 28, 2015	Sep. 24, 2015 Sep. 23, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Sep. 06, 2015~ Sep. 28, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Sep. 06, 2015~ Sep. 28, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Sep. 06, 2015~ Sep. 28, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5G Hz	Jan. 28, 2015	Sep. 06, 2015~ Sep. 28, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Sep. 06, 2015~ Sep. 28, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 06, 2015~ Sep. 28, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 06, 2015~ Sep. 28, 2015	NCR	Radiation (03CH01-SZ)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 27 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01



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))	2.5uB

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

Measuring Uncertainty for a Level of	3.9dB
Confidence of 95% (U = 2Uc(y))	3.905

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AFWMLE1PRO Page Number : 28 of 28
Report Issued Date : Sep. 29, 2015
Report Version : Rev. 01