FCC Test Report

APPLICANT : CT Asia

EQUIPMENT: Smart Phone

BRAND NAME : BLU

MODEL NAME : VIVO LTE

FCC ID : YHLBLUVIVOLTE

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Mar. 10, 2015 and testing was completed on May 02, 2015. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

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

Reviewed by: Louis Wu / Manager

Lunis Wu

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Testing Laboratory 2627

Report No. : FC531001

Report Issued Date: May 11, 2015
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC531001	Rev. 01	Initial issue of report	May 11, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule Description Limit		Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	5.44 dB at
					0.470 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	5.95 dB at
					710.940 MHz

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1. General Description

1.1. Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2. Manufacturer

Longcheer Technology (Shanghai) Co., Ltd.

Building 1, No.401, Caobao Rd., Xuhui District, Shanghai, P.R.China

1.3. Product Feature of Equipment Under Test

Product Feature						
Equipment	Smart Phone					
Brand Name	BLU					
Model Name	VIVO LTE					
FCC ID	YHLBLUVIVOLTE					
	GSM/GPRS/EGPRS/WCDMA/HSPA/					
EUT supports Radios application	HSPA+(Downlink Only)/DC-HSDPA/LTE					
EOT Supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20					
	Bluetooth v3.0 + EDR/Bluetooth v4.0 LE					
HW Version	60					
SW Version	BLU_V010Q_V04_GENERIC_150210_03:08					
EUT Stage	Pre-Production					

Remark:

The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4. Product Specification subjective to this standard

Duradicat Openification asking the third atomic						
Product Speci	fication 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 IV : 1712.4 MHz ~ 1752.6 MHz					
Tx Frequency	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz					
TX Toquency	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					
	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					
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz					
	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz					
	LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz					
	802.11b/g/n: 2412 MHz ~ 2462 MHz					
	Bluetooth: 2402 MHz ~ 2480 MHz					
	GPS: 1.57542 GHz					
	WWAN : Monopole Antenna					
Antenna Type	WLAN: IFA Antenna					
Antenna Type	Bluetooth : IFA Antenna					
	GPS : Monopole Antenna					
	GSM: GMSK					
	GPRS: GMSK					
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK					
	WCDMA: QPSK (Uplink)					
	HSDPA / DC-HSDAP: QPSK (Uplink)					
	HSUPA: QPSK (Uplink)					
	HSPA+: 16QAM (Downlink Only)					
Type of Modulation	DC-HSDPA: 64QAM					
Type of Modulation	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					
	LTE: QPSK / 16QAM					

1.5. Modification of EUT

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

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1.6. Test Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Test Site No.	Sportor	FCC Registration No.				
Test Site NO.	CO01-KS	03CH02-KS	418269			

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.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 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

Remark: For signal above 1GHz, the worst case was test item 1.

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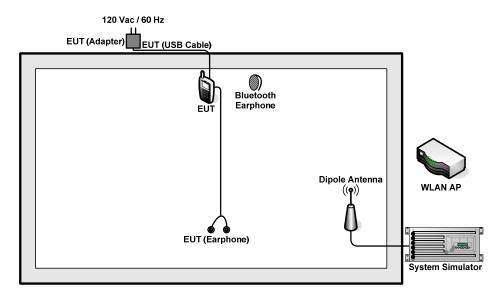
Test Items	EUT Configure Mode	Function Type
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig.1></fig.1>
AC Conducted Emission	1/2	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Charging from Adapter) + 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>
	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <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	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <fig.1></fig.1>
Emissions ≥ 1GHz		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:

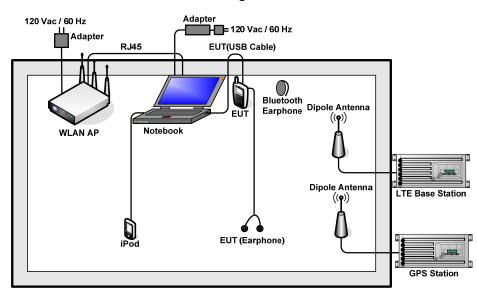
- 1. The worst case of AC is mode 2; and the USB Link mode of AC is mode 3; the test data of these modes are reported.
- 2. The worst case of RE < 1G is mode 1; and the USB Link mode of RE is mode 3, the test data of these mode are reported.
- 3. Link with Notebook means data application transferred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

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2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

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2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	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-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
5.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Shielded, 1.8 m
6.	Notebook	Lenovo	G480	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-106	QTLBH-106	N/A	N/A
9.	iPod	Apple	A1199	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

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

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

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

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

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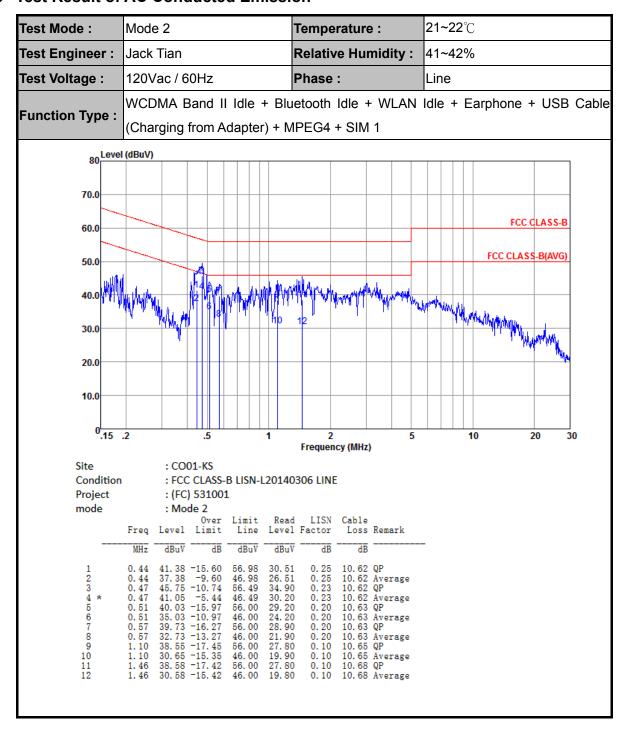
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3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



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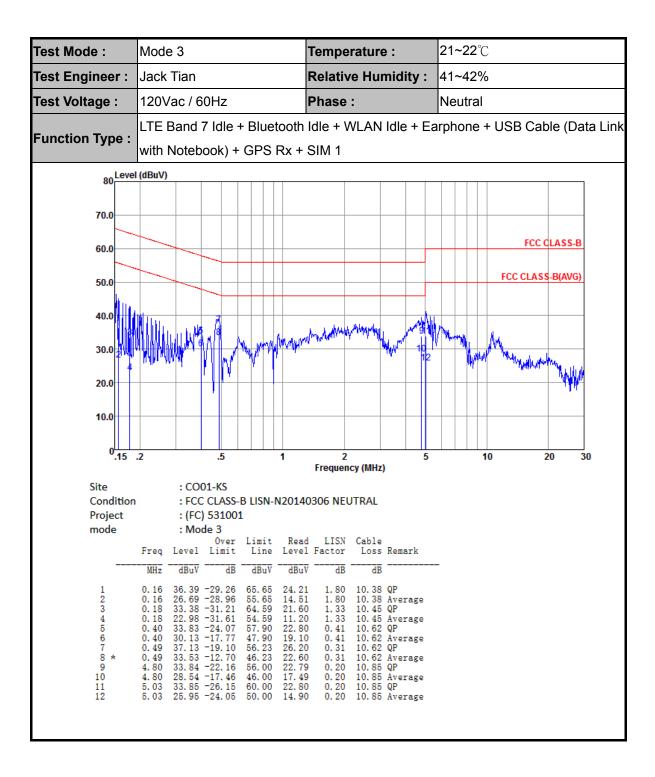
Test Mode: Mode 2 **21~22**℃ Temperature: Jack Tian **Relative Humidity:** Test Engineer: 41~42% Test Voltage: 120Vac / 60Hz Phase: Neutral WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable Function Type: (Charging from Adapter) + MPEG4 + SIM 1 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 30.0 20.0 10.0 0.15 .2 5 10 20 30 Frequency (MHz) : CO01-KS Site Condition : FCC CLASS-B LISN-N20140306 NEUTRAL Project : (FC) 531001 mode : Mode 2 0ver Limit Read LISN Cable Limit Line Level Factor Loss Remark Freq Level MHz dBuV dB dBuV dBuV dB dB 43. 19 -21. 62 33. 19 -21. 62 40. 86 -15. 90 34. 06 -12. 70 41. 04 -15. 37 34. 44 -11. 97 35. 23 -20. 87 30. 83 -15. 27 38. 62 -17. 38 31. 32 -14. 68 34. 28 -21. 72 26. 68 -19. 32 64. 81 54. 81 56. 76 46. 76 56. 41 31. 30 21. 30 29. 90 23. 10 10. 44 QP 10. 44 Ave 10. 62 QP 10. 62 Ave 10. 62 QP 0.17 0.17 1. 45 1. 45 0. 34 0. 32 0. 32 0. 30 0. 30 0. 29 0. 29 1 2 3 4 5 6 7 0.46 0.46 Average 30. 10 23. 50 24. 31 46. 41 56. 10 10. 62 10. 62 0.48 0.49 19. 91 27. 70 20. 40 23. 50 15. 90 0. 49 0. 52 0. 52 46. 10 56. 00 46. 00 8 10.62 Average 10.63 QP 10.63 Average 10.68 QP 10 56. 00 46. 00 11 12 1.46 0.10 0.10 10.68 Average

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21~22℃ Test Mode: Mode 3 Temperature: Test Engineer: Jack Tian **Relative Humidity:** 41~42% Test Voltage: 120Vac / 60Hz Phase: Line LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable (Data Link Function Type: with Notebook) + GPS Rx + SIM 1 80 Level (dBuV) 70.0 FCC CLASS-B 60.0 FCC CLASS-B(AVG) 50.0 40.0 30.0 20.0 10.0 0.15 .2 .5 5 10 20 30 Frequency (MHz) : CO01-KS Site Condition : FCC CLASS-B LISN-L20140306 LINE Project : (FC) 531001 mode : Mode 3 Read Over Limit LISN Cable Freq Level Limit Level Factor Loss Remark Line MHz dBuV dΒ dBuV dBuV dB dB 36. 43 -29. 22 28. 93 -26. 72 34. 75 -30. 37 23. 25 -31. 87 35. 78 -21. 24 36. 15 -20. 30 29. 55 -16. 90 29. 67 -26. 33 21. 27 -24. 73 31. 24 -24. 76 26. 64 -19. 36 65. 65 55. 65 65. 12 55. 12 57. 02 47. 02 56. 45 24. 20 16. 70 22. 70 11. 20 10.38 QP 10.38 Average 10.41 QP 10.41 Average 0.16 1. 85 1. 85 1. 64 1. 64 0. 26 0. 26 0. 22 0. 22 0. 12 0. 12 0. 20 1 2 3 4 5 6 7 8 9 0. 16 0. 17 0. 17 Average 24. 90 21. 60 25. 31 18. 71 18. 80 0. 44 0. 44 0. 47 10.62 QP 10.62 Average 10.62 QP 10.62 Average 10.75 QP 10.75 Average 10.85 QP 10.85 Average 0. 47 2. 72 2. 72 46. 45 56. 00 46. 00 56. 00 46. 00 10. 40 20. 19 15. 59 10 11 12

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

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

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

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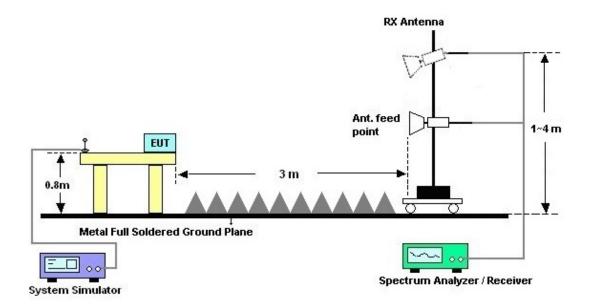
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

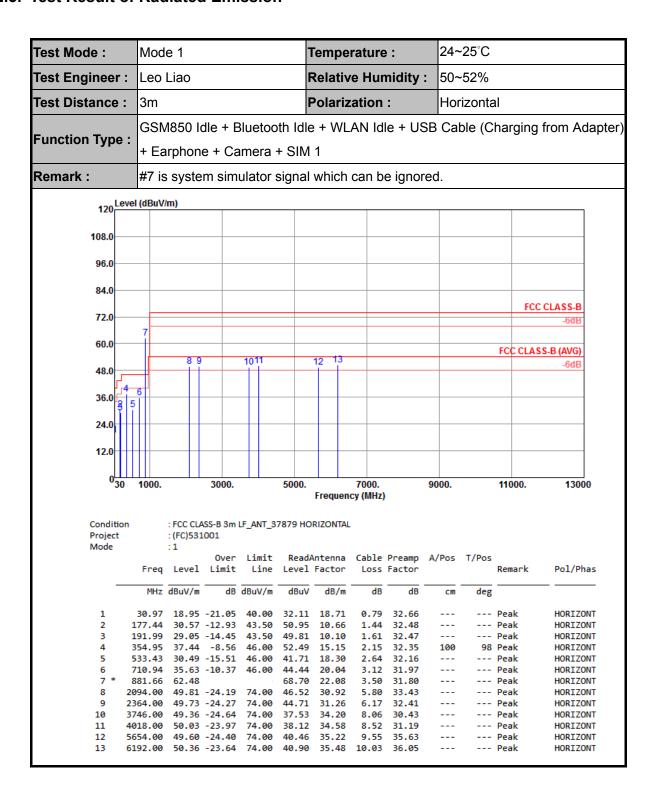


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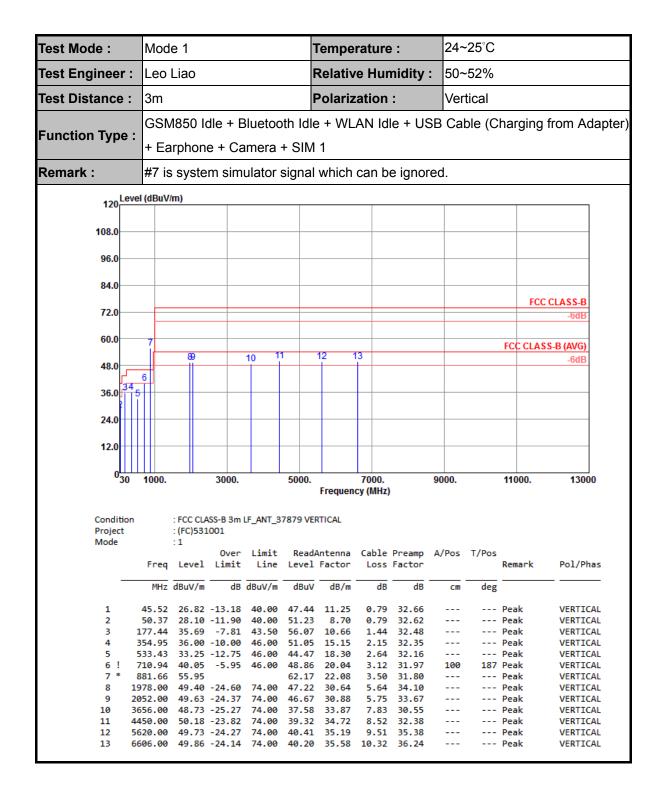
3.2.5. Test Result of Radiated Emission



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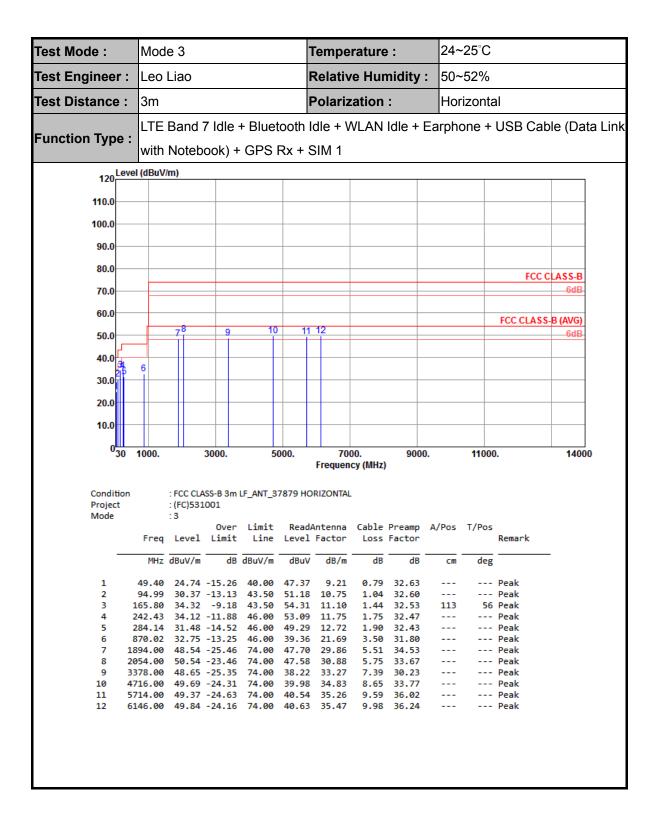
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Test Mode :	Mode 3	}		-	Tempe	rature	:	24~	-25°C		
Test Engineer :	Leo Liao			ı	Relative Humidity :			50~	50~52%		
Test Distance :	3m			ı	Polarization :			Ver	tical		
Function Type :		nd 7 Idle tebook)				VLAN	Idle + E	Earpho	one +	USB Cal	ole (Data Lin
120 Level (dBuV/m)											
110.0											
100.0											
90.0											
80.0										FCC (CLASS-B
70.0											-6dB-
60.0										FCC CLASS	S-B (AVG)
50.0	7 ⁵		9 10	11	12						-6dB-
40.0	5 6										
30.0											
20.0											
10.0											
030	1000.	3000.	5	000.	70 Frequen		9000.		11000).	14000
Condition Project Mode		C CLASS-B 3: C)531001	m LF_ANT_3	7879 VE		oj (<u>z</u>)					
	Freq Le	Ove vel Limi			Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark	
	MHz dBu	V/m d	B dBuV/m	dBuV	dB/m	dB	dB	cm	deg		_
		.33 -11.6 .59 -10.4		49.95 53.23		0.79 0.79	32.64 32.61			Peak Peak	
	.65.80 33 41.46 27	3.39 -10.1		53.38	11.10 11.70		32.53 32.48	183		Peak Peak	
	75.05 30						31.93			Peak	
	01.06 30						31.70			Peak	
	16.00 49 68.00 50						34.44 33.55			Peak Peak	
9 36	92.00 49	.43 -24.5	7 74.00	38.05	33.98	7.91	30.51			Peak	
	90.00 49				34.75		32.38 35.38			Peak Peak	
	48.00 50						36.24			Peak Peak	

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Sep. 29, 2014	May 02, 2015	Sep. 28, 2015	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	May 02, 2015	Sep. 24, 2015	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz-2GHz	Sep. 13, 2014	May 02, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2014	May 02, 2015	Nov. 07, 2015	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz ~1000MHz / 32 dB	May 05, 2014	May 02, 2015	May 04, 2015	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 28, 2014	May 02, 2015	Oct. 27, 2015	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	May 02, 2015	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	May 02, 2015	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	May 02, 2015	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2014	Apr. 02, 2015	May 03, 2015	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	Apr. 02, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	Apr. 02, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	Apr. 02, 2015	Oct. 24, 2015	Conduction (CO01-KS)

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5. Uncertainty of Evaluation

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of	2.3dB		
Confidence of 95% (U = 2Uc(y))	2.305		

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

Measuring Uncertainty for a Level of	E 14D	
Confidence of 95% (U = 2Uc(y))	5.1dB	

SPORTON INTERNATIONAL (KUNSHAN) INC.

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