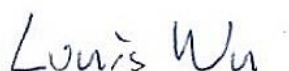


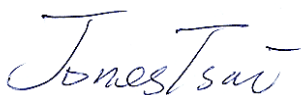
FCC Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : LTE/CDMA Dual-Mode Digital Mobile Phone
BRAND NAME : ZTE
MODEL NAME : Z819L
FCC ID : SRQ-Z819L
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Apr. 02, 2015 and testing was completed on May 08, 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.



Reviewed by: Louis Wu / Manager

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1. GENERAL DESCRIPTION	5
1.1. Applicant.....	5
1.2. Manufacturer	5
1.3. Feature of Equipment Under Test.....	5
1.4. Product Specification of Equipment Under Test	6
1.5. Modification of EUT	7
1.6. Test Site	7
1.7. Applied Standards	7
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1. Test Mode	8
2.2. Connection Diagram of Test System	10
2.3. Support Unit used in test configuration and system.....	12
2.4. EUT Operation Test Setup	13
3. TEST RESULT	14
3.1. Test of AC Conducted Emission Measurement	14
3.2. Test of Radiated Emission Measurement	18
4. LIST OF MEASURING EQUIPMENT	23
5. UNCERTAINTY OF EVALUATION	24
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC540203	Rev. 01	Initial issue of report	May 14, 2015



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 11.18 dB at 0.480 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 8.77 dB at 165.800 MHz

1. General Description

1.1. Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

1.2. Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P. R. China

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE/CDMA Dual-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z819L
FCC ID	SRQ-Z819L
EUT supports Radios application	CDMA/EV-DO/LTE/WLAN 2.4GHz 802.11b/g/n (HT20)/ Bluetooth v2.1 + EDR/Bluetooth v4.0 LE
MEID Code	Conduction: 99000607000155 Radiation: 99000607000070
HW Version	Z819LHWV1.0
SW Version	Z819LV1.0.0B01
EUT Stage	Production Unit

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

1.4. Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz Glonass : 1602 MHz + $n \times 0.5625\text{MHz}$ ($n=-7, -6, -5, \dots, 0, \dots, 6$)
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS/Glonass : PIFA Antenna
Type of Modulation	CDMA2000 1xRTT : QPSK CDMA2000 1xEV-DO : 8PSK LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth v4.0 LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK Glonass : BPSK

1.5. Modification of EUT

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

1.6. Test Location

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

Note: The test site complies with ANSI C63.4 2009 requirement.

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2009

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

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.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)	☒	☒	Note 1
2.	Data application transferred mode (EUT connected with notebook)	☒	☒	☒

Abbreviations:

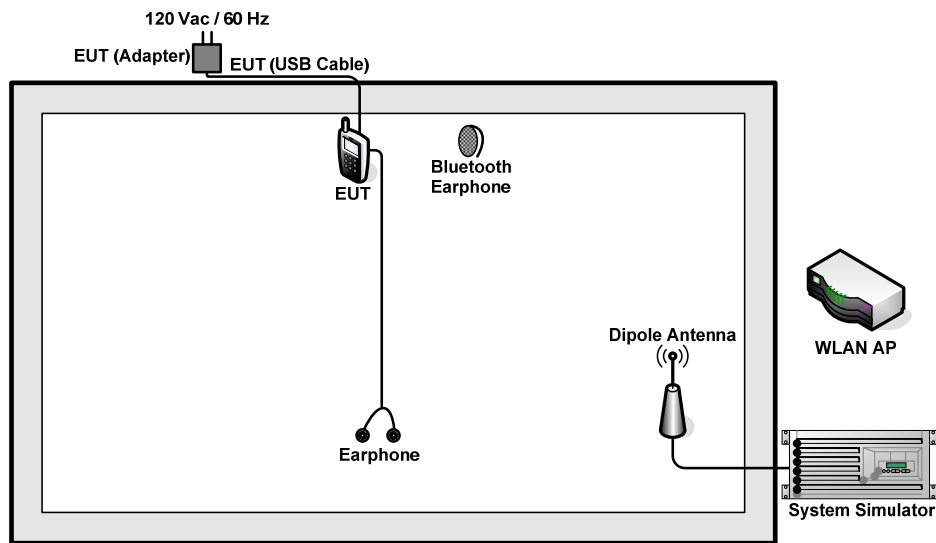
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

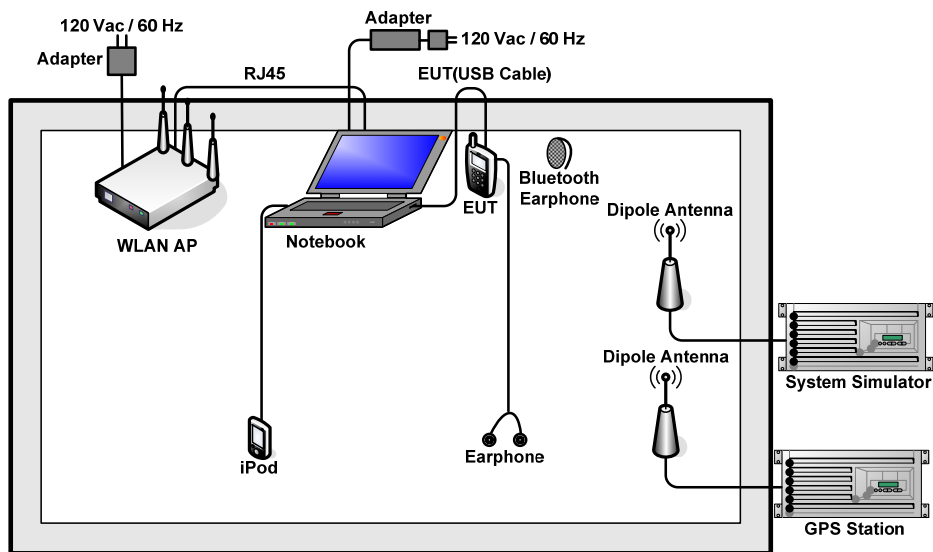
Remark: For signal above 1GHz, the worst case was test item 2.

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera <Fig.1> Mode 2: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <Fig.1> Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <Fig.2> Mode 4: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx <Fig.3>
Radiated Emissions < 1GHz	1/2	Mode 1: CDMA2000 BC0 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera <Fig.1> Mode 2: CDMA2000 BC1 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <Fig.1> Mode 3: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <Fig.2> Mode 4: LTE Band 13 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Glonass Rx <Fig.3>
Radiated Emissions ≥ 1GHz	2	Mode 1: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx <Fig.2>
Remark: - The worst case of AC is mode 3; only the test data of this mode is reported. - The worst case of RE < 1G is mode 3; only the test data of this mode is reported. - Data Link with notebook means data application transferred mode between EUT and notebook.		

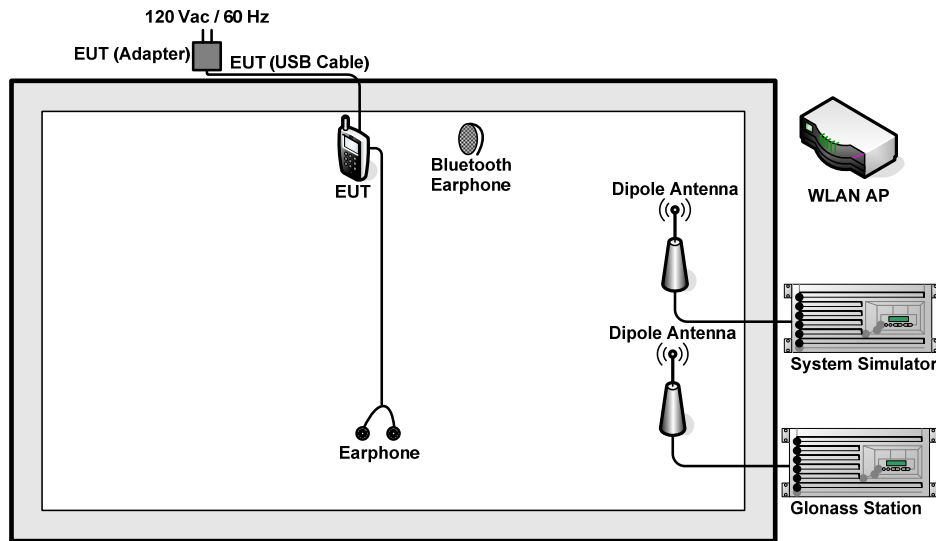
2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>



<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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	Glomass Station	RACELOGIC	RLLS03-2P	N/A	N/A	Unshielded, 1.8 m
5.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A
7.	Bluetooth Earphone	Nokia	BH-102	PYAHS-107W	N/A	N/A
8.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
9.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NVII	N/A	Unshielded, 1.8 m
10.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
11.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

The EUT was in CDMA2000 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. Execute "Video Player" to play MPEG4 files.
3. Turn on camera to capture images.
4. Turn on GPS/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.

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 (MHz)	Conducted limit (dBuV)	
	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.

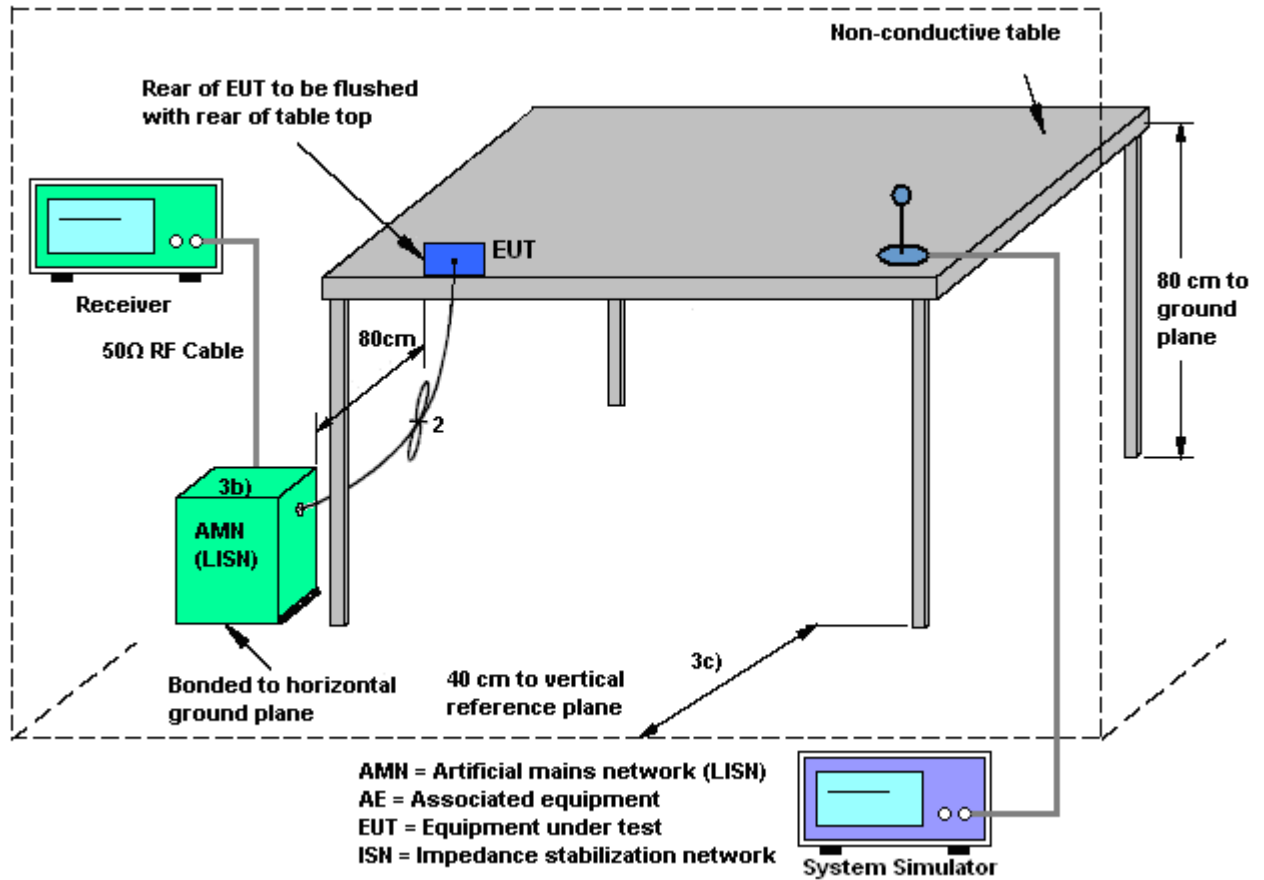
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

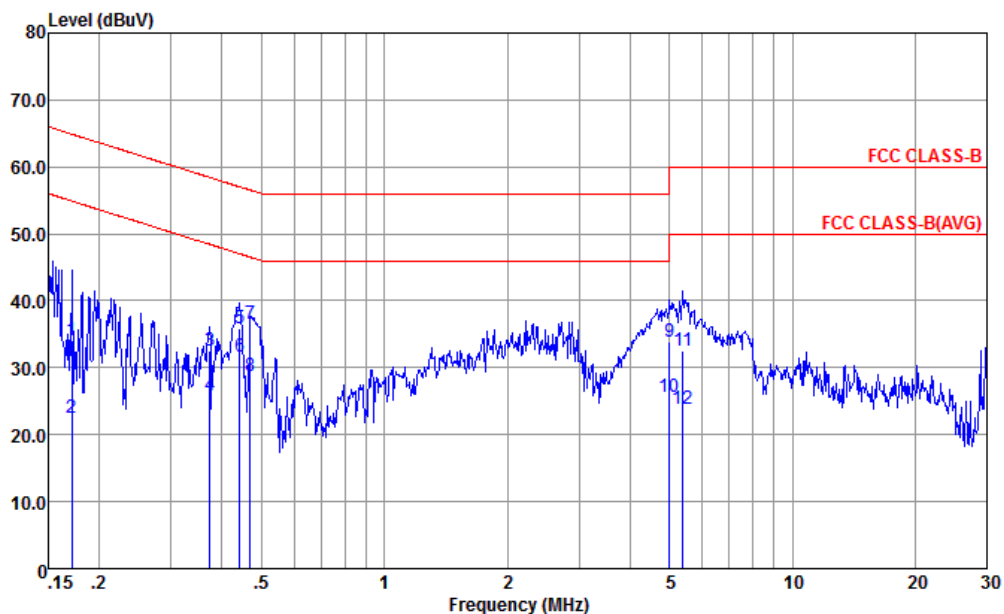
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

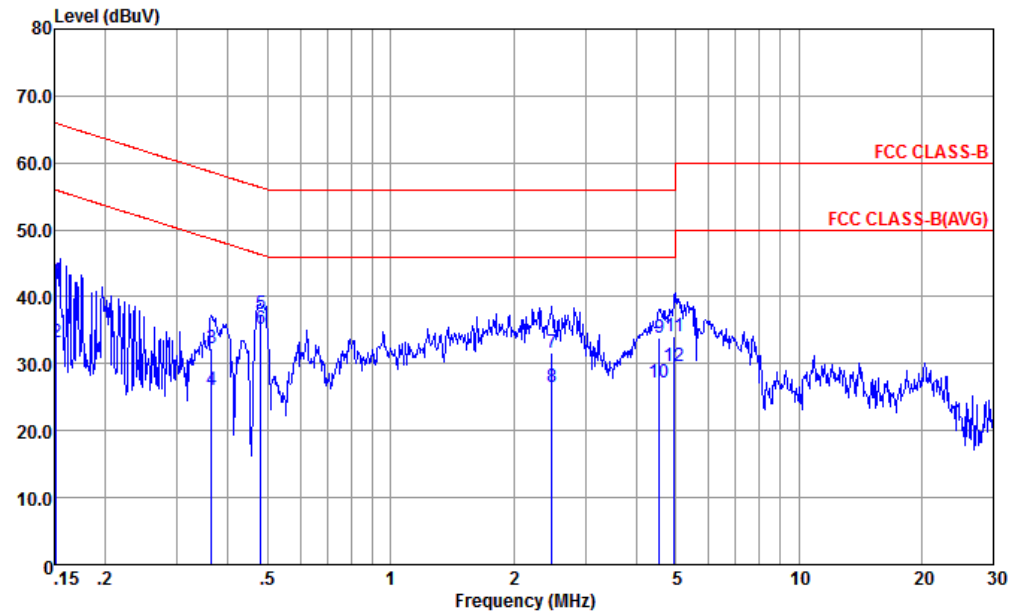
Test Mode :	Mode 3	Temperature :	22~24℃
Test Engineer :	Eko Guan	Relative Humidity :	30~33%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : CO01-KS
 Condition : FCC CLASS-B LISN-L20140306 LINE
 Project : (FC) 540203
 mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17	34.06	-30.84	64.90	22.10	1.53	10.43	QP
2	0.17	22.46	-32.44	54.90	10.50	1.53	10.43	Average
3	0.37	32.49	-25.94	58.43	21.51	0.37	10.61	QP
4	0.37	25.79	-22.64	48.43	14.81	0.37	10.61	Average
5	0.44	35.98	-21.04	57.02	25.10	0.26	10.62	QP
6 *	0.44	31.68	-15.34	47.02	20.80	0.26	10.62	Average
7	0.47	36.45	-20.09	56.54	25.60	0.23	10.62	QP
8	0.47	28.75	-17.79	46.54	17.90	0.23	10.62	Average
9	5.00	33.85	-26.15	60.00	22.80	0.20	10.85	QP
10	5.00	25.65	-24.35	50.00	14.60	0.20	10.85	Average
11	5.39	32.46	-27.54	60.00	21.40	0.20	10.86	QP
12	5.39	23.76	-26.24	50.00	12.70	0.20	10.86	Average

Test Mode :	Mode 3	Temperature :	22~24℃
Test Engineer :	Eko Guan	Relative Humidity :	30~33%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : CO01-KS
Condition : FCC CLASS-B LISN-N20140306 NEUTRAL
Project : (FC) 540203
mode : Mode 3

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.15	42.45	-23.46	65.91	30.20	1.88	10.37	QP
2	0.15	33.15	-22.76	55.91	20.90	1.88	10.37	Average
3	0.36	32.38	-26.27	58.65	21.30	0.47	10.61	QP
4	0.36	26.18	-22.47	48.65	15.10	0.47	10.61	Average
5	0.48	37.44	-18.88	56.32	26.51	0.31	10.62	QP
6 *	0.48	35.14	-11.18	46.32	24.21	0.31	10.62	Average
7	2.49	31.64	-24.36	56.00	20.80	0.11	10.73	QP
8	2.49	26.44	-19.56	46.00	15.60	0.11	10.73	Average
9	4.55	33.93	-22.07	56.00	22.90	0.19	10.84	QP
10	4.55	27.13	-18.87	46.00	16.10	0.19	10.84	Average
11	4.95	34.15	-21.85	56.00	23.10	0.20	10.85	QP
12	4.95	29.55	-16.45	46.00	18.50	0.20	10.85	Average

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

3.2.2. Measuring Instruments

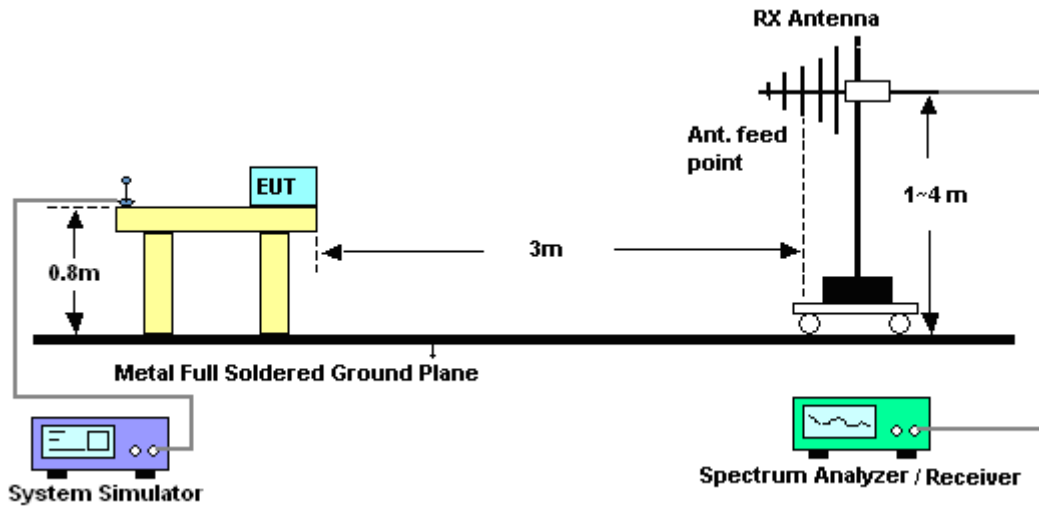
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

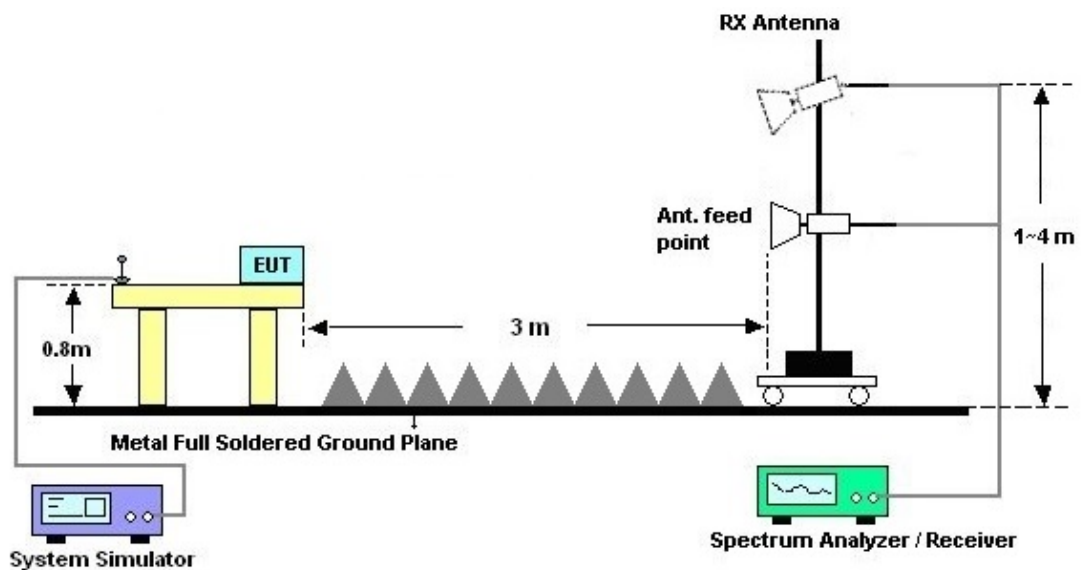
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



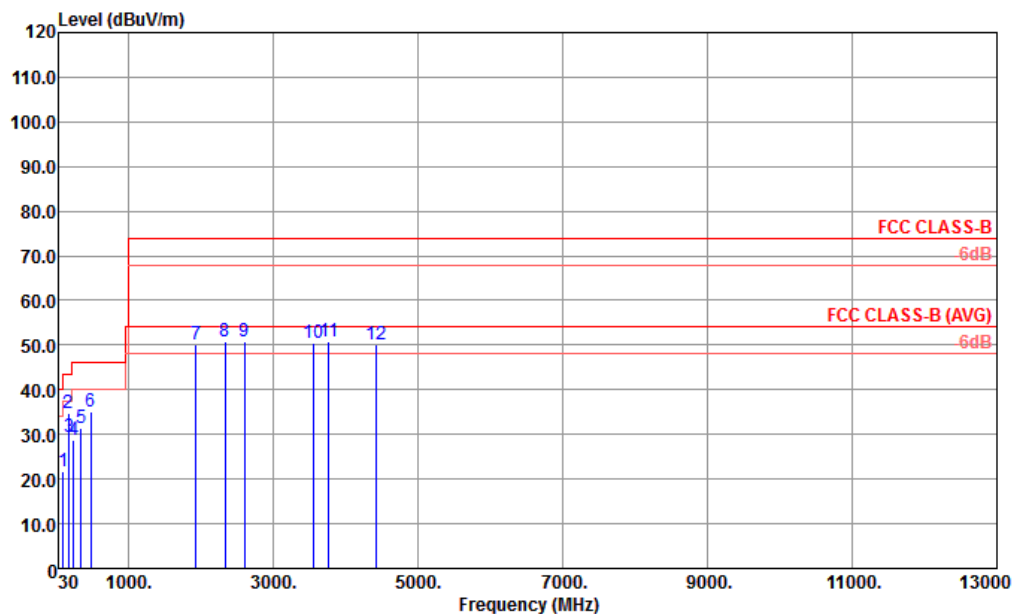
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 3	Temperature :	22~23°C
Test Engineer :	Nick Su	Relative Humidity :	40~41%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		

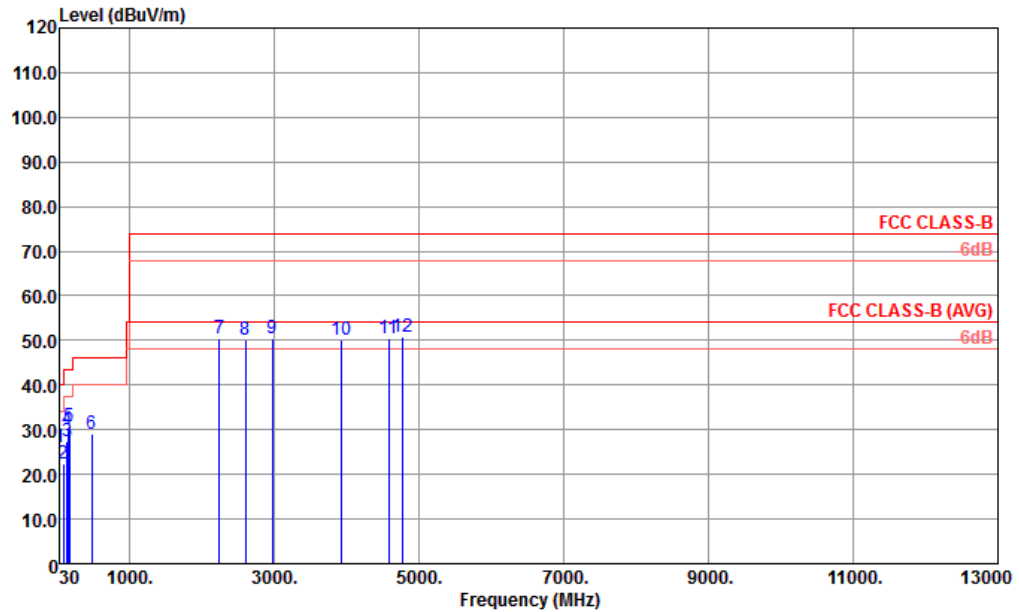


Site : 03CH02-KS
Condition : FCC CLASS-B 3m LF_ANT_37879 HORIZONTAL
Project : (FC)540203
Mode : 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg	
1	94.99	21.75	-21.75	43.50	42.56	10.75	1.04	32.60	---	---	Peak HORIZONTAL
2	165.80	34.73	-8.77	43.50	54.72	11.10	1.44	32.53	100	150	Peak HORIZONTAL
3	181.32	29.55	-13.95	43.50	50.06	10.51	1.44	32.46	---	---	Peak HORIZONTAL
4	239.52	28.76	-17.24	46.00	47.88	11.61	1.75	32.48	---	---	Peak HORIZONTAL
5	345.25	31.46	-14.54	46.00	46.99	14.81	2.02	32.36	---	---	Peak HORIZONTAL
6	480.08	35.23	-10.77	46.00	47.71	17.18	2.51	32.17	---	---	Peak HORIZONTAL
7	1934.00	50.16	-23.84	74.00	48.77	30.17	5.58	34.36	---	---	Peak HORIZONTAL
8	2332.00	50.94	-23.06	74.00	46.04	31.23	6.12	32.45	---	---	Peak HORIZONTAL
9	2606.00	50.80	-23.20	74.00	44.17	31.69	6.48	31.54	---	---	Peak HORIZONTAL
10	3556.00	50.47	-23.53	74.00	39.70	33.60	7.68	30.51	---	---	Peak HORIZONTAL
11	3764.00	50.90	-23.10	74.00	39.03	34.22	8.06	30.41	---	---	Peak HORIZONTAL
12	4422.00	50.23	-23.77	74.00	39.36	34.73	8.52	32.38	---	---	Peak HORIZONTAL



Test Mode :	Mode 3	Temperature :	22~23°C
Test Engineer :	Nick Su	Relative Humidity :	40~41%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx		



Site : 03CH02-KS
 Condition : FCC CLASS-B 3m LF_ANT_37879 VERTICAL
 Project : (FC)540203
 Mode : 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg	
1	39.70	25.92	-14.08	40.00	43.43	14.30	0.79	32.60	---	---	Peak VERTICAL
2	88.20	22.33	-21.17	43.50	43.93	9.98	1.04	32.62	---	---	Peak VERTICAL
3	133.79	27.28	-16.22	43.50	47.07	11.57	1.23	32.59	---	---	Peak VERTICAL
4	149.31	30.08	-13.42	43.50	49.51	11.69	1.44	32.56	---	---	Peak VERTICAL
5	164.83	30.63	-12.87	43.50	50.58	11.14	1.44	32.53	154	103	Peak VERTICAL
6	480.08	29.18	-16.82	46.00	41.66	17.18	2.51	32.17	---	---	Peak VERTICAL
7	2242.00	50.48	-23.52	74.00	45.89	31.14	6.01	32.56	---	---	Peak VERTICAL
8	2598.00	50.24	-23.76	74.00	43.61	31.69	6.48	31.54	---	---	Peak VERTICAL
9	2976.00	50.47	-23.53	74.00	41.63	32.73	6.91	30.80	---	---	Peak VERTICAL
10	3920.00	50.04	-23.96	74.00	38.01	34.44	8.37	30.78	---	---	Peak VERTICAL
11	4586.00	50.36	-23.64	74.00	39.42	34.75	8.57	32.38	---	---	Peak VERTICAL
12	4770.00	50.95	-23.05	74.00	41.75	34.86	8.71	34.37	---	---	Peak VERTICAL



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 04, 2015	May 08, 2015	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	May 08, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	May 08, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	May 08, 2015	Oct. 24, 2015	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Sep. 29, 2014	Apr. 25, 2015	Sep. 28, 2015	Radiation (03CH02-KS)
Spectrum Analyzer	R&S	FSV40	101040	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Apr. 25, 2015	Sep. 24, 2015	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Sep. 13, 2014	Apr. 25, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2014	Apr. 25, 2015	Nov. 07, 2015	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz Gain 32dB	Sep. 13, 2014	Apr. 25, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1GHz~26.5GHz Gain 30dB	Oct. 28, 2014	Apr. 25, 2015	Oct. 27, 2015	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 25, 2015	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Apr. 25, 2015	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Apr. 25, 2015	NCR	Radiation (03CH02-KS)



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.3dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.1dB
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