



# FCC Test Report

APPLICANT : ZTE CORPORATION  
EQUIPMENT : LTE/WCDMA/GSM (GPRS)  
Multi-Mode Digital Mobile Phone  
BRAND NAME : ZTE  
MODEL NAME : Z999  
FCC ID : SRQ-Z999  
STANDARD : FCC 47 CFR FCC Part 15 Subpart B  
CLASSIFICATION : Certification

The product was received on Oct. 13, 2017 and testing was completed on Oct. 26, 2017. 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 C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

**Sporton International (Kunshan) Inc.**  
No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 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. Product Feature of Equipment Under Test ..... 5

    1.4. Product Specification of Equipment Under Test ..... 6

    1.5. Modification of EUT ..... 7

    1.6. Test Location ..... 7

    1.7. Applicable Standards ..... 8

**2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST ..... 9**

    2.1. Test Mode ..... 9

    2.2. Connection Diagram of Test System ..... 10

    2.3. Support Unit used in test configuration and system ..... 11

    2.4. EUT Operation Test Setup ..... 11

**3. TEST RESULT ..... 12**

    3.1. Test of AC Conducted Emission Measurement ..... 12

    3.2. Test of Radiated Emission Measurement ..... 18

**4. LIST OF MEASURING EQUIPMENT ..... 22**

**5. UNCERTAINTY OF EVALUATION ..... 23**

**APPENDIX A. SETUP PHOTOGRAPHS**

**APPENDIX B. PRODUCT EQUALITY DECLARATION**





### 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 10.21 dB at 0.853 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 4.05 dB at 720.00 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	
<b>Equipment</b>	LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone
<b>Brand Name</b>	ZTE
<b>Model Name</b>	Z999
<b>FCC ID</b>	SRQ-Z999
<b>EUT supports Radios application</b>	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/LTE/NFC 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 v4.0 LE/ Bluetooth v4.1 LE
<b>IMEI Code</b>	Conduction: 865800030028028 Radiation: 865800030028028
<b>HW Version</b>	Z999HWV1.0
<b>SW Version</b>	Z999V1.0.0B25
<b>EUT Stage</b>	Identical Prototype

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a variant report for Z999. The product equality declaration could be referred to Appendix B. Based on the similarity between two models, only the related test cases from original test report (Sporton Report Number FC760101) were verified for the differences.



### 1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
<b>Rx Frequency</b>	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 29 : 718.5 MHz ~726.5 MHz LTE Band 30 : 2352.5 MHz ~2357.5 MHz LTE Band 66 : 2110.7 MHz ~ 2199.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n: 5180 MHz ~ 5240 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559MHz~1610MHz NFC : 13.56 MHz
<b>Antenna Type</b>	WWAN : LDS Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna NFC : Loop Antenna
<b>Type of Modulation</b>	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) 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) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK
--	---

GNSS= GPS L1 + Glonass G1 + BDS B1i

### 1.5. Modification of EUT

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

### 1.6. Test Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No is CN5013.

<b>Test Site</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		<b>FCC Test Firm Registration No.</b>
	CO01-KS	03CH02-KS	630927

**Note:** The test site complies with ANSI C63.4 2014 requirement.



## 1.7. Applicable Standards

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

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2014

### **Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. For FCC 15 Subpart B - Unintentional Radiators, device supporting USB interface or similar peripherals (defined as the Section 15.3 (r) Peripheral device) acting as a peripheral for personal computers shall be authorized as "The Class B personal computers and peripherals" per the Section 15.101 (a) Equipment authorization of unintentional radiators.
3. For other Unintentional Radiators features of this EUT, test reports are be issued separately. Per the Note of the Section 15.101, when device supports features (USB, FM Radio, digital devices...etc) more than one category of authorization, type of authorization shall be appropriately chosen for FCC 15B compliance rule, and the Section 15.101 (b), only those receivers that operate (tune) within the frequency range of 30-960 MHz, CB receivers and radar detectors are subject to the authorizations shown in paragraph (a) of the Section 15.101. However, receivers indicated as being subject to Declaration of Conformity that are contained within a transceiver, the transmitter portion of which is subject to certification, shall be authorized under the verification procedure.





## 2. Test Configuration of Equipment Under Test

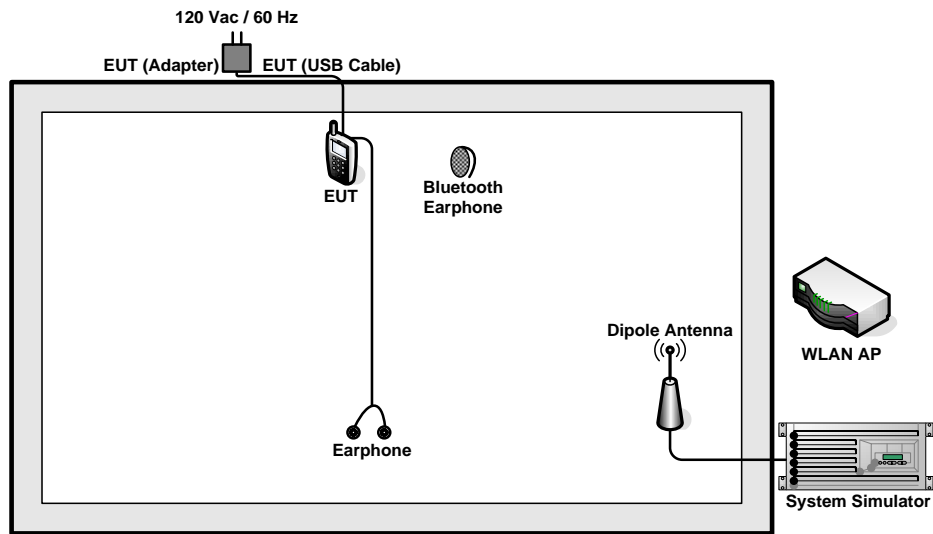
### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

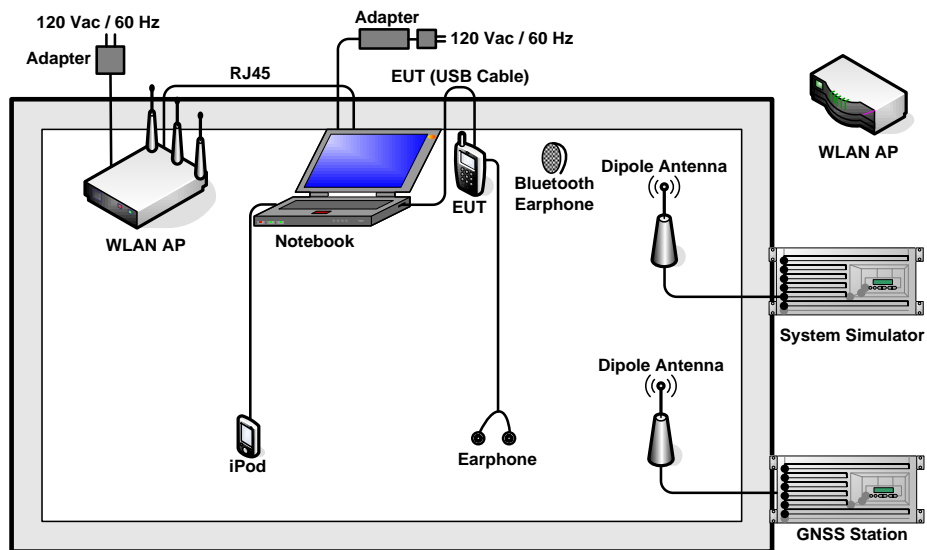
Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: WCDMA Band V Idle + USB Cable(Charging from Adapter) + WLAN Idle(2.4G) + Bluetooth Idle + Earphone + MPEG4<fig. 1>
	Mode 2: LTE Band 4 Idle + USB Cable(Data Link with Notebook) + WLAN Idle(5G) + Bluetooth Idle + Earphone + GNSS Rx<fig. 2>
Radiated	Mode 1: LTE Band 4 Idle + USB Cable(Data Link with Notebook) + WLAN Idle(5G) + Bluetooth Idle + Earphone + GNSS Rx<fig. 2>
<b>Remark:</b> <ol style="list-style-type: none"> <li>The worst case of AC is mode 1; and USB Link mode is mode 2, the test data of these modes were reported.</li> <li>Data Link with Notebook means data application transferred mode between EUT and Notebook.</li> </ol>	

## 2.2. Connection Diagram of Test System



<Fig. 1>



<Fig. 2>

### 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	GNSS Station	R&S	SMBV100A	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
5.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
6.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
7.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
8.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
9.	SD Card	Kingston	SDC4/4GB	N/A	N/A	N/A
10.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.2m	N/A
11.	Earphone	Lenovo	LH102	N/A	Unshielded, 1.2m	N/A
12.	iPod	Apple	A1199	Fcc DoC	Shielded, 1.2m	N/A

### 2.4. EUT Operation Test Setup

The EUT was in 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. Execute "Video player" to play MPEG4 files.
3. Turn on GNSS function to make the EUT receive continuous signals from GNSS 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.

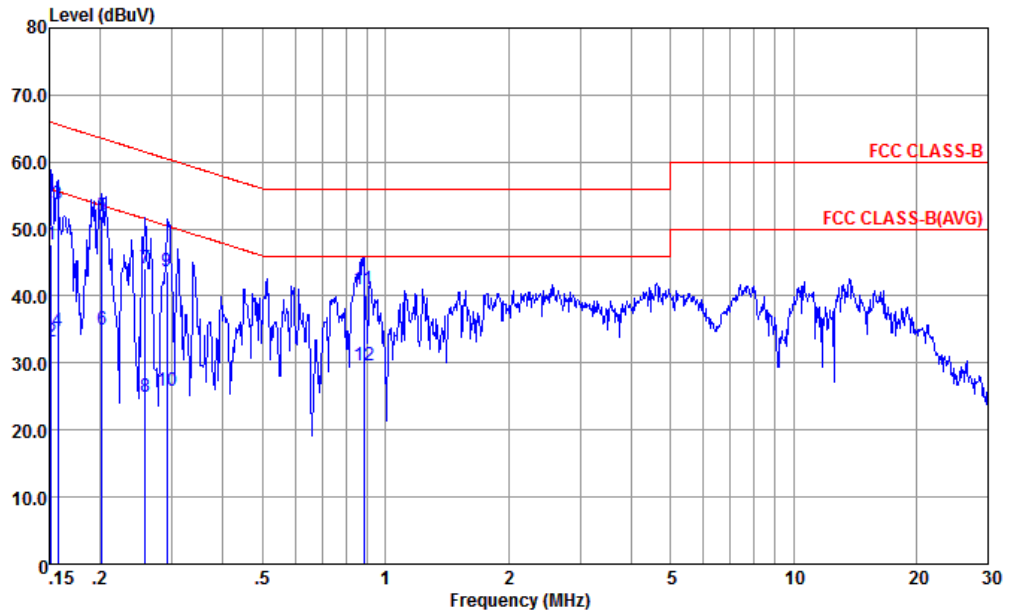
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	43~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band V Idle + USB Cable(Charging from Adapter) + WLAN Idle(2.4G) + Bluetooth Idle + Earphone + MPEG4		

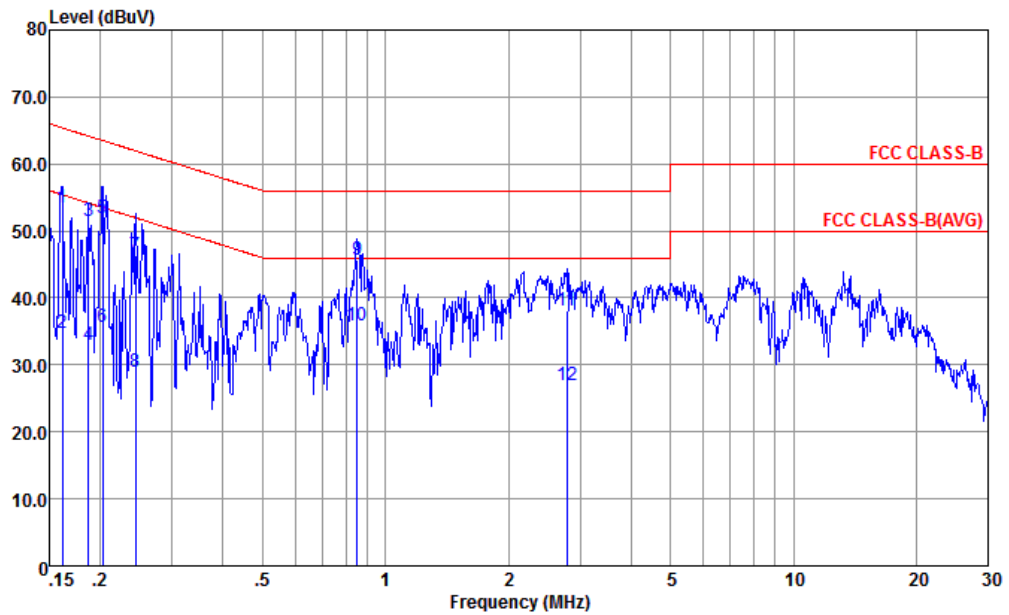


Site : CO01-KS  
 Condition : FCC CLASS-B LISN-L-161017-060103 LINE  
 Project : (FC) 760101-02  
 mode : Mode 1  
 : 865800030028028 #3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	47.75	-18.16	65.91	36.60	0.54	10.61	QP
2	0.152	33.25	-22.66	55.91	22.10	0.54	10.61	Average
3	0.157	53.60	-12.00	65.60	42.51	0.50	10.59	QP
4	0.157	34.70	-20.90	55.60	23.61	0.50	10.59	Average
5 *	0.202	51.82	-11.72	63.54	41.10	0.27	10.45	QP
6	0.202	34.92	-18.62	53.54	24.20	0.27	10.45	Average
7	0.258	44.21	-17.30	61.51	33.50	0.27	10.44	QP
8	0.258	24.91	-26.60	51.51	14.20	0.27	10.44	Average
9	0.291	43.60	-16.90	60.50	32.90	0.27	10.43	QP
10	0.291	25.90	-24.60	50.50	15.20	0.27	10.43	Average
11	0.885	40.96	-15.04	56.00	30.60	0.26	10.10	QP
12	0.885	29.66	-16.34	46.00	19.30	0.26	10.10	Average



Test Mode :	Mode 1	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	43~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band V Idle + USB Cable(Charging from Adapter) + WLAN Idle(2.4G) + Bluetooth Idle + Earphone + MPEG4		

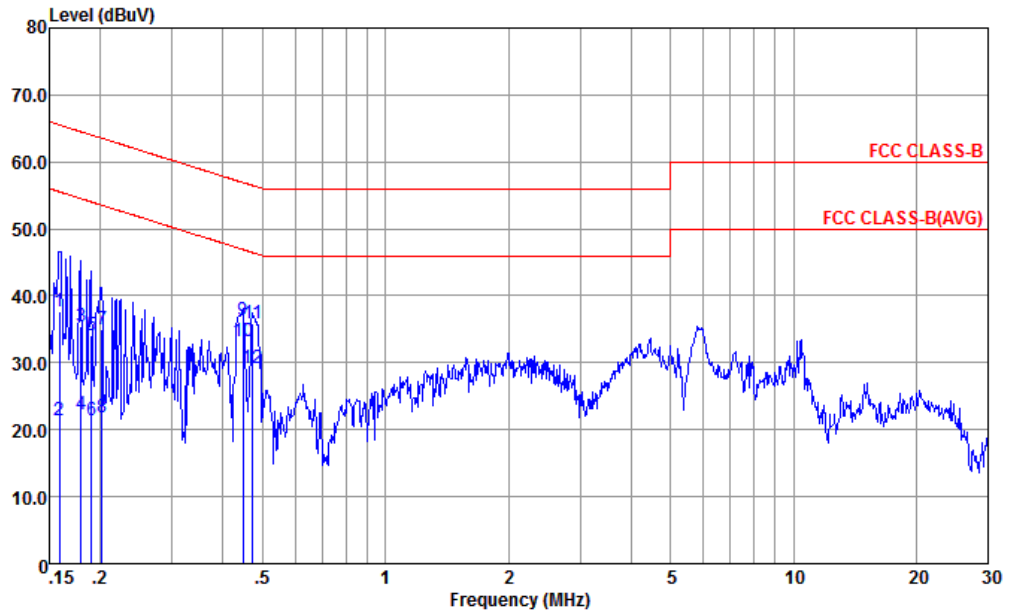


Site : CO01-KS  
 Condition : FCC CLASS-B LISN-N-161017-060103 NEUTRAL  
 Project : (FC) 760101-02  
 mode : Mode 1  
 : 865800030028028 #3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.162	53.51	-11.87	65.38	42.59	0.34	10.58	QP
2	0.162	34.81	-20.57	55.38	23.89	0.34	10.58	Average
3	0.187	51.43	-12.72	64.15	40.61	0.33	10.49	QP
4	0.187	32.93	-21.22	54.15	22.11	0.33	10.49	Average
5	0.203	51.99	-11.50	63.49	41.21	0.33	10.45	QP
6	0.203	35.69	-17.80	53.49	24.91	0.33	10.45	Average
7	0.244	46.28	-15.67	61.95	35.50	0.34	10.44	QP
8	0.244	28.98	-22.97	51.95	18.20	0.34	10.44	Average
9	0.853	45.69	-10.31	56.00	35.20	0.39	10.10	QP
10 *	0.853	35.79	-10.21	46.00	25.30	0.39	10.10	Average
11	2.779	38.09	-17.91	56.00	27.50	0.40	10.19	QP
12	2.779	26.89	-19.11	46.00	16.30	0.40	10.19	Average



Test Mode :	Mode 2	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	43~46%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 4 Idle + USB Cable(Data Link with Notebook) + WLAN Idle(5G) + Bluetooth Idle + Earphone + GNSS Rx		



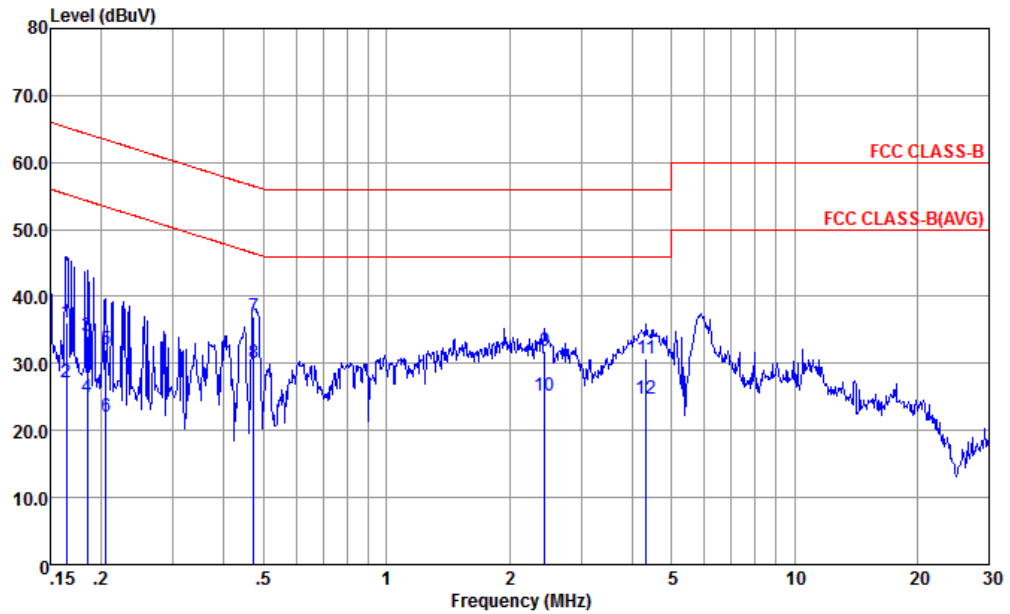
Site : CO01-KS  
 Condition : FCC CLASS-B LISN-L-161017-060103 LINE  
 Project : (FC) 760101-02  
 mode : Mode 2  
 : 865800030028028 #3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.159	37.68	-27.84	65.52	26.60	0.49	10.59	QP
2	0.159	21.38	-34.14	55.52	10.30	0.49	10.59	Average
3	0.180	35.39	-29.11	64.50	24.50	0.37	10.52	QP
4	0.180	22.19	-32.31	54.50	11.30	0.37	10.52	Average
5	0.190	34.00	-30.02	64.02	23.20	0.32	10.48	QP
6	0.190	21.40	-32.62	54.02	10.60	0.32	10.48	Average
7	0.202	34.92	-28.62	63.54	24.20	0.27	10.45	QP
8	0.202	21.92	-31.62	53.54	11.20	0.27	10.45	Average
9	0.447	36.23	-20.70	56.93	25.60	0.27	10.36	QP
10 *	0.447	33.23	-13.70	46.93	22.60	0.27	10.36	Average
11	0.474	35.80	-20.65	56.45	25.20	0.27	10.33	QP
12	0.474	29.20	-17.25	46.45	18.60	0.27	10.33	Average





Test Mode :	Mode 2	Temperature :	22~24°C
Test Engineer :	Amos Zhang	Relative Humidity :	43~46%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 4 Idle + USB Cable(Data Link with Notebook) + WLAN Idle(5G) + Bluetooth Idle + Earphone + GNSS Rx		



Site : CO01-KS  
 Condition : FCC CLASS-B LISN-N-161017-060103 NEUTRAL  
 Project : (FC) 760101-02  
 mode : Mode 2  
 : 865800030028028 #3

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.164	36.10	-29.15	65.25	25.19	0.34	10.57	QP
2	0.164	27.10	-28.15	55.25	16.19	0.34	10.57	Average
3	0.184	34.04	-30.24	64.28	23.21	0.33	10.50	QP
4	0.184	25.04	-29.24	54.28	14.21	0.33	10.50	Average
5	0.205	31.98	-31.42	63.40	21.20	0.33	10.45	QP
6	0.205	21.98	-31.42	53.40	11.20	0.33	10.45	Average
7	0.474	36.91	-19.54	56.45	26.20	0.38	10.33	QP
8 *	0.474	30.01	-16.44	46.45	19.30	0.38	10.33	Average
9	2.448	31.80	-24.20	56.00	21.20	0.40	10.20	QP
10	2.448	25.20	-20.80	46.00	14.60	0.40	10.20	Average
11	4.338	30.77	-25.23	56.00	20.20	0.38	10.19	QP
12	4.338	24.77	-21.23	46.00	14.20	0.38	10.19	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

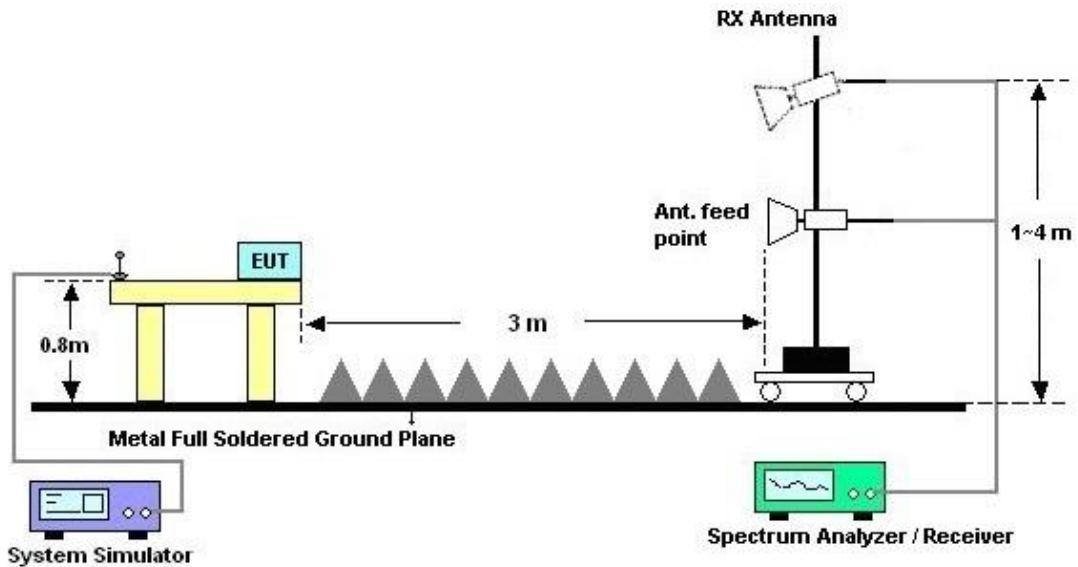
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 (dBµV/m) = 20 log Emission level (µV/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



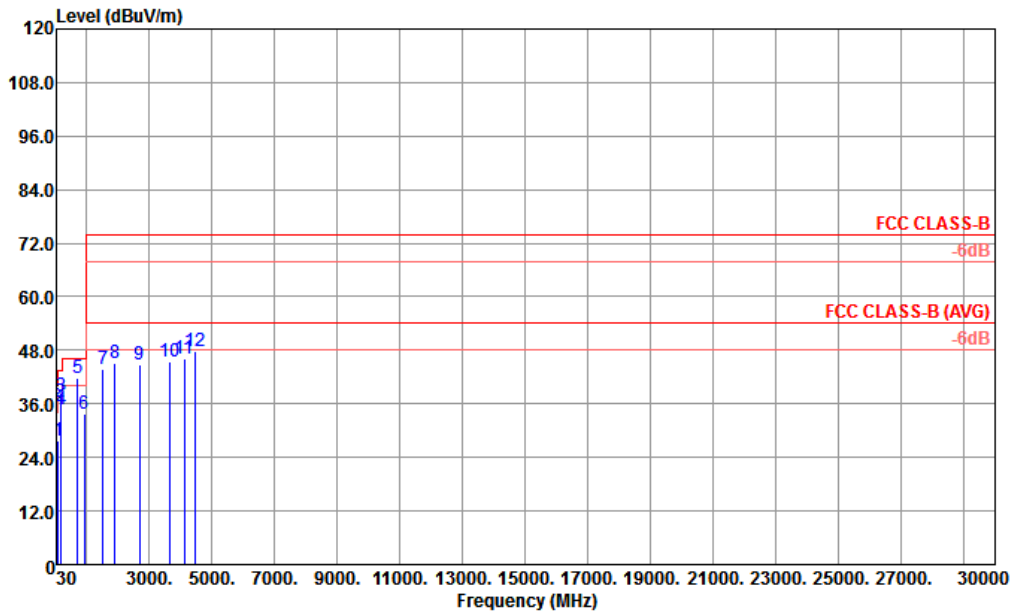
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Carl Ni	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 4 Idle + USB Cable(Data Link with Notebook) + WLAN Idle(5G) + Bluetooth Idle + Earphone + GNSS Rx		

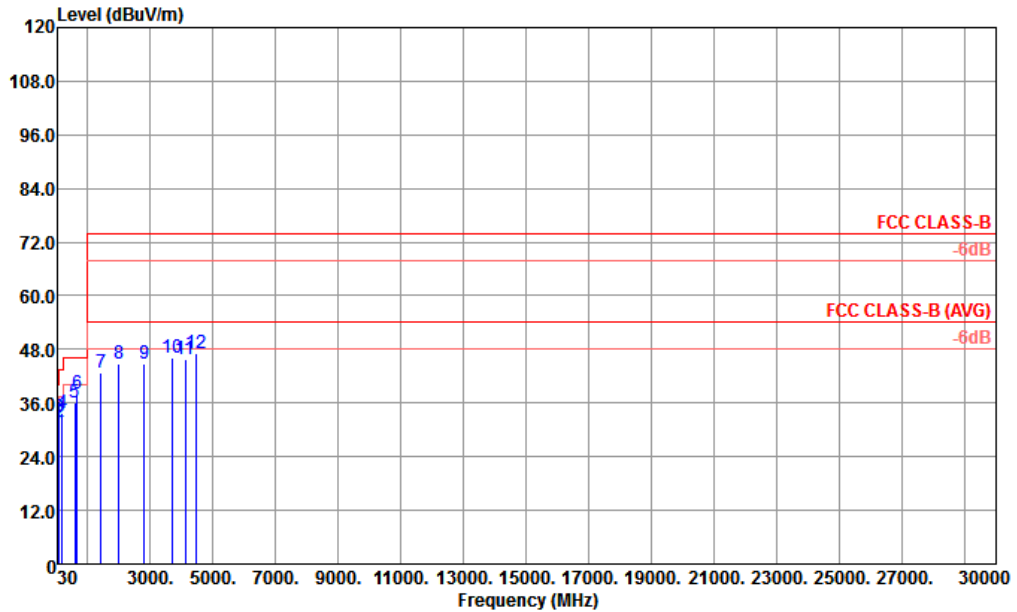


Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m 02 LF ANT HORIZONTAL  
 Project : (FC)760101-02  
 Mode : 1  
 IMEI : 865800030028028 #3

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	84.54	27.63	-12.37	40.00	43.03	15.70	0.95	32.05	---	---	Peak
2	165.54	36.46	-7.04	43.50	49.97	16.96	1.32	31.79	---	---	Peak
3 !	174.45	37.89	-5.61	43.50	51.62	16.68	1.35	31.76	---	---	Peak
4	181.74	34.80	-8.70	43.50	48.74	16.41	1.38	31.73	---	---	Peak
5 !	720.00	41.95	-4.05	46.00	41.44	26.52	2.78	28.79	100	0	Peak
6	915.30	33.90	-12.10	46.00	30.38	27.78	3.13	27.39	---	---	Peak
7	1518.00	43.71	-30.29	74.00	46.11	28.65	4.09	35.14	---	---	Peak
8	1898.00	45.21	-28.79	74.00	44.75	29.43	4.52	33.49	---	---	Peak
9	2694.00	44.63	-29.37	74.00	37.84	31.62	5.60	30.43	---	---	Peak
10	3642.00	45.46	-28.54	74.00	35.25	33.82	6.49	30.10	---	---	Peak
11	4107.00	46.22	-27.78	74.00	34.86	35.19	7.01	30.84	---	---	Peak
12	4476.00	47.67	-26.33	74.00	36.16	35.57	7.32	31.38	---	---	Peak



Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Carl Ni	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 4 Idle + USB Cable(Data Link with Notebook) + WLAN Idle(5G) + Bluetooth Idle + Earphone + GNSS Rx		



Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m 02 LF ANT VERTICAL  
 Project : (FC)760101-02  
 Mode : 1  
 IMEI : 865800030028028 #3

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	42.96	31.40	-8.60	40.00	42.26	20.57	0.65	32.08	---	---	Peak
2	84.81	31.79	-8.21	40.00	47.18	15.70	0.96	32.05	---	---	Peak
3	89.13	32.62	-10.88	43.50	46.88	16.80	0.97	32.03	---	---	Peak
4	174.72	33.76	-9.74	43.50	47.49	16.68	1.35	31.76	---	---	Peak
5	596.80	36.24	-9.76	46.00	38.70	24.60	2.62	29.68	---	---	Peak
6	663.30	37.98	-8.02	46.00	38.84	25.64	2.70	29.20	100	0	Peak
7	1416.00	42.93	-31.07	74.00	45.36	28.50	3.91	34.84	---	---	Peak
8	1992.00	44.87	-29.13	74.00	42.81	30.07	4.61	32.62	---	---	Peak
9	2806.00	44.87	-29.13	74.00	37.56	31.80	5.84	30.33	---	---	Peak
10	3687.00	46.00	-28.00	74.00	35.41	34.16	6.53	30.10	---	---	Peak
11	4125.00	45.64	-28.36	74.00	34.22	35.22	7.09	30.89	---	---	Peak
12	4473.00	47.16	-26.84	74.00	35.65	35.57	7.32	31.38	---	---	Peak



### 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;	Apr. 20, 2017	Oct. 26, 2017	Apr. 19, 2018	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Oct. 26, 2017	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Oct. 26, 2017	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000081 1	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Oct. 26, 2017	Oct. 11, 2018	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 08, 2017	Oct. 17, 2017	Aug. 07, 2018	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 18, 2017	Oct. 17, 2017	Apr. 17, 2018	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz~2GHz	Jan. 22, 2017	Oct. 17, 2017	Jan. 21, 2018	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 22, 2016	Oct. 17, 2017	Oct. 21, 2017	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz ~40GHz	Feb. 15, 2017	Oct. 17, 2017	Feb. 14, 2018	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9kHz~1GHz	Aug. 07, 2017	Oct. 17, 2017	Aug. 06, 2018	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1GHz~26.5GHz	Oct. 12, 2017	Oct. 17, 2017	Oct. 11, 2018	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18GHz~40GHz	Oct. 12, 2017	Oct. 17, 2017	Oct. 11, 2018	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Oct. 17, 2017	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Oct. 17, 2017	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Oct. 17, 2017	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required



## 5. Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB
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### Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB
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### Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 dB
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## **Appendix B. Product Equality Declaration**



**ZTE CORPORATION****Product Change Description**

As the applicant of the below model, [ZTE Corporation] declares that the product,

[Z999]

[ZTE Corporation]

is the variant of the initial certified product,

[Z999]

[ZTE Corporation]

[Project Number:17ZTE191-01]

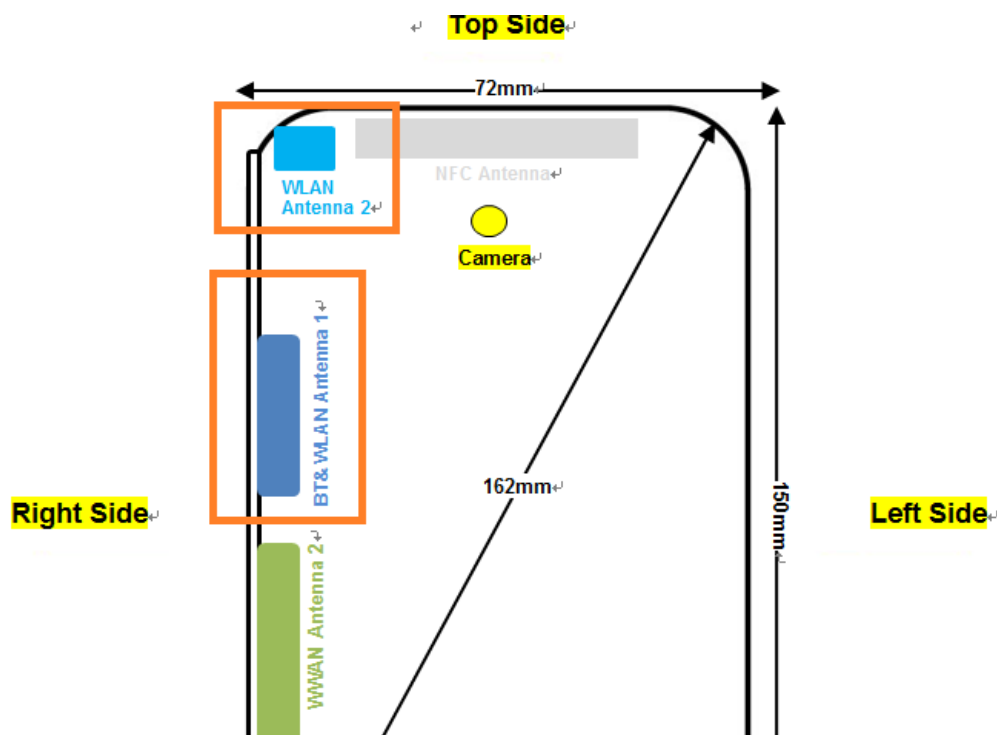
**SOFTWARE MODIFICATIONS:**

Protocol Stack changes: NO

MMS/STK changes: NO

JAVA changes: NO

Other changes detailed: Yes, ZTE now switch WLAN Antenna 1 and 2's function. This means WLAN Antenna 2 in below picture now support Bluetooth and WIFI while WLAN antenna 1 only supports WIFI MIMO function.



## HARDWARE MODIFICATION:

Band changes: NO  
Power Amplifier changes: NO  
Antenna changes: NO  
PCB Layout changes: NO  
Components on PCB changes: NO  
LCD changes: NO  
Speaker changes: NO  
Camera changes: NO  
Vibrator changes: NO  
Bluetooth changes: NO  
FM changes: NO  
Other changes: NO

## MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO  
Mechanical shell changes: NO  
Other changes detailed: NO

## ACCESSORY MODIFICATIONS:

Battery changes: NO  
AC Adaptor changes: NO

Earphone changes:NO

*Min Zhang*

APPROVED BY: Min Zhang

Project Manager: Shao xiaoli

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