FCC Test Report

APPLICANT	:	**ZTE CORPORATION**
EQUIPMENT	:	**LTE/CDMA/GSM Multi-Mode Digital Mobile Phone**
BRAND NAME	:	**ZTE**
MODEL NAME	:	**Z3351S**
FCC ID	:	**SRQ-Z3351S**
STANDARD	:	**47 CFR Part 15 Subpart B**
CLASSIFICATION	:	**Certification**

The product was received on Feb. 21, 2019 and testing was completed on Mar. 07, 2019. 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.

James Huang

NVLAP®
TESTING
NVLAP LAB CODE 600155-0

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.
No. 1098, Pengxi North Road, Kunshan Economic Development Zone,
Jiangsu Province 215335, China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC922103	Rev. 01	Initial issue of report	Apr. 04, 2019

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 3.70 dB at 2.678 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.45 dB at 46.490 MHz for Quasi-Peak

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/GSM Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z3351S
FCC ID	SRQ-Z3351S
EUT supports Radios application	CDMA/EVDO/GSM/GPRS/EGPRS/LTE WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE GNSS/FM
IMEI Code	Conduction/Radiation: 990010440004589
HW Version	Z3351SHW1.0
SW Version	Z3351SV1.0.0B01
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.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 25 : 1850.7 MHz ~ 1914.3 MHz LTE Band 26 : 814.7 MHz ~ 848.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA2000 BC10: 817.9 MHz ~ 823.1 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 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 13 : 748.5 MHz ~ 753.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz CDMA2000 BC10: 862.9 MHz ~ 868.1 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz
Antenna Type	WWAN : IFA Antenna WLAN : IFA Antenna Bluetooth : IFA Antenna GNSS: IFA Antenna FM: External headset Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK LTE: QPSK / 16QAM CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK 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 GNSS : BPSK FM

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).

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC designation No.**	**FCC Test Firm Registration No.**
	CO01-KS 03CH02-KS	CN5013	630927

1.7. Applicable Standards

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

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

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 C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

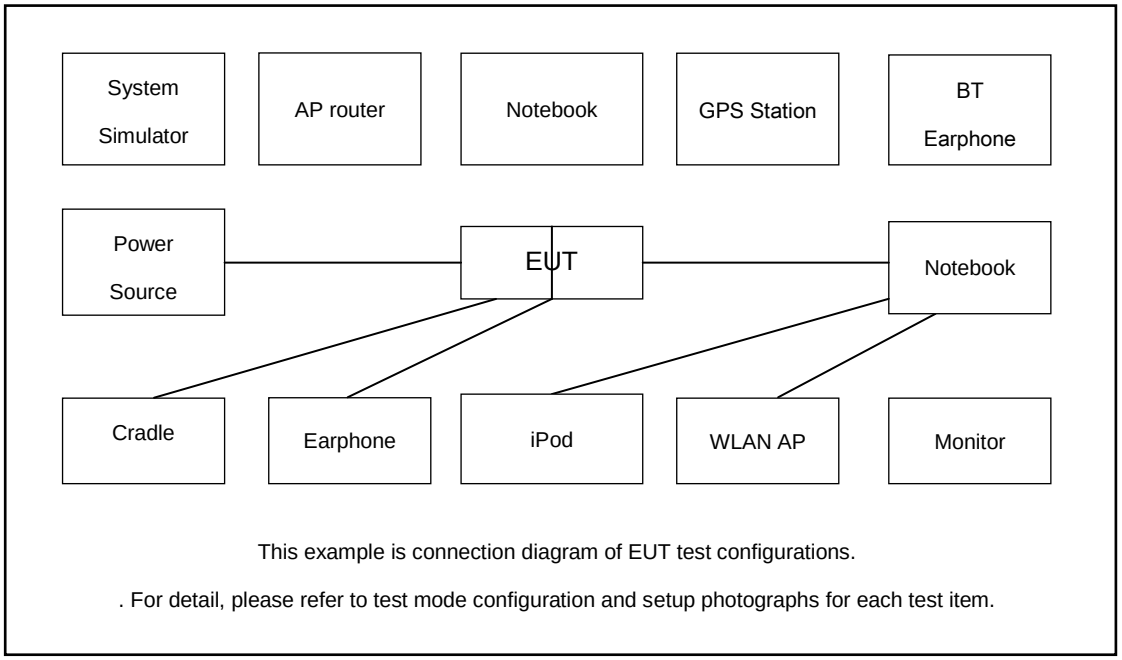
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM850 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera (Rear) Mode 2: PCS1900 Rx + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 2) + Earphone + Camera (Front) Mode 3: CDMA BC10 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 3) + Earphone + MPEG4 Mode 4: LTE Band 12 Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 2) + Earphone + FM Rx(98MHz) Mode 5: LTE Band 13 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Data Link with Notebook) + Earphone + GNSS Rx Mode 6: LTE Band 26 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 2) + Earphone + FM Rx(98MHz)
Radiated Emissions	Mode 1: GSM850 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 1) + Earphone + Camera (Rear) Mode 2: PCS1900 Rx + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 2) + Earphone + Camera (Front) Mode 3: CDMA BC10 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 3) + Earphone + MPEG4 Mode 4: LTE Band 12 Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Charging from Adapter 1) + Earphone + GNSS Rx Mode 5: LTE Band 13 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Data Link with Notebook) + Earphone + GNSS Rx Mode 6: LTE Band 26 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + USB Cable (Data Link with Notebook) + Earphone + GNSS Rx

Remark:

1. The worst case of AC is mode 4; only the test data of this mode is reported.
2. The worst case of RE is mode 5; only the test data of this mode is reported.
3. Data Link with Notebook means data application transferred mode between EUT and Notebook.
4. Pre-scanned Low/Middle/High channel for GSM850/CDMA BC10/ LTE Band12/13/26 Band Rx mode, the worst channel was recorded in this report.

2.2. Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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,1.8m
3.	GNSS Station	R&S	SMBV100A	258305	N/A	N/A
4.	GNSS Station	R&S	GSS7000	NA	NA	Unshielded,1.8m
5.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
6.	WLAN AP	TP-LINK	TL-WDR5600	N/A	N/A	Unshielded,1.8m
7.	WLAN AP	D-link	DIR-855	KA2DIR855A2	N/A	Unshielded,1.8m
8.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	Notebook	DELL	MT320	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
10.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
11.	Bluetooth Earphone	Lenevo	LYEJ02LM	N/A	N/A	N/A
12.	Earphone	Lenovo	LH102	N/A	N/A	Unshielded,1.2m
13.	iPod	Apple	A1199	Fcc DoC	Shielded, 1.2m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or 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. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
3. Execute "Windows Media Player" to play MPEG4 files.
4. Turn on camera to capture images.
5. Turn on FM function to make the EUT receive continuous signals from FM Generator.

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.

<Class B Limit>

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.

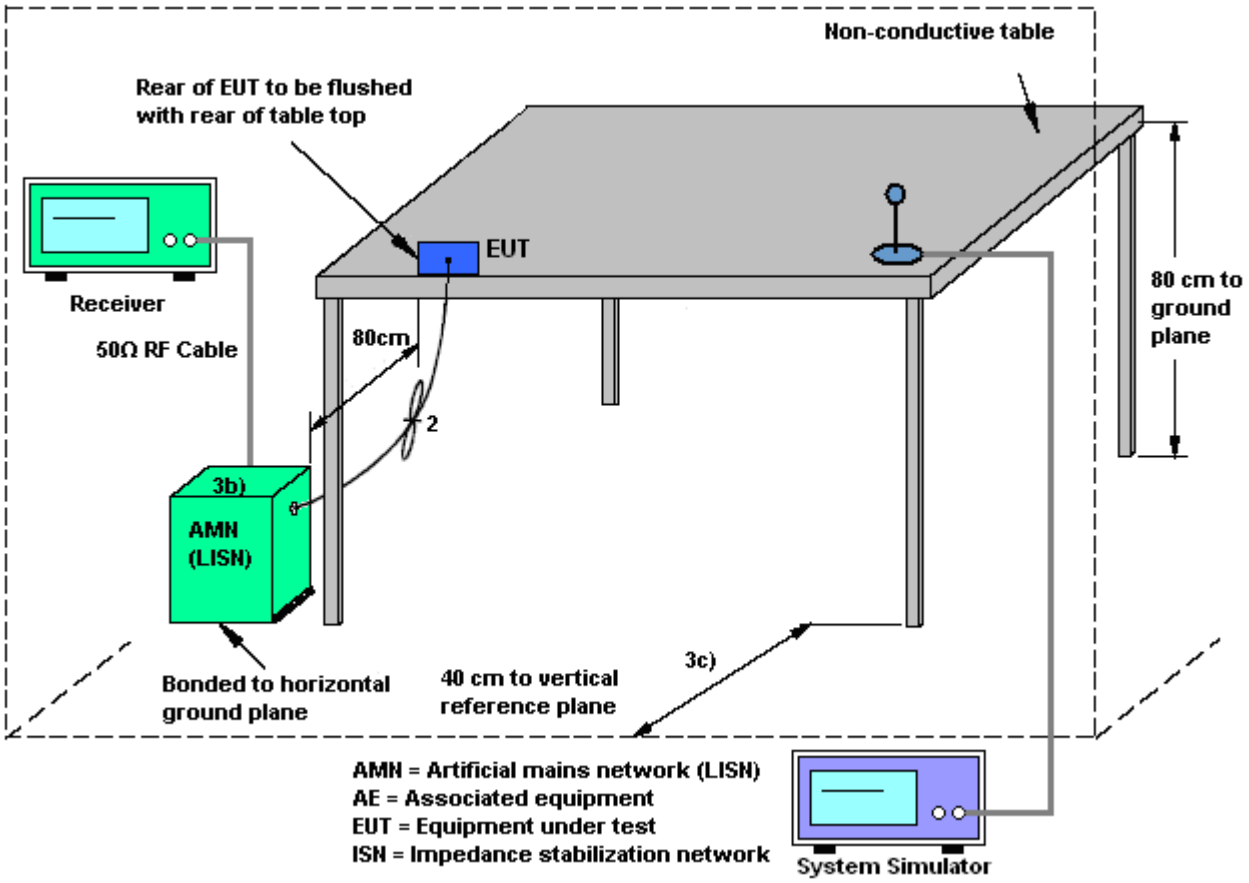
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

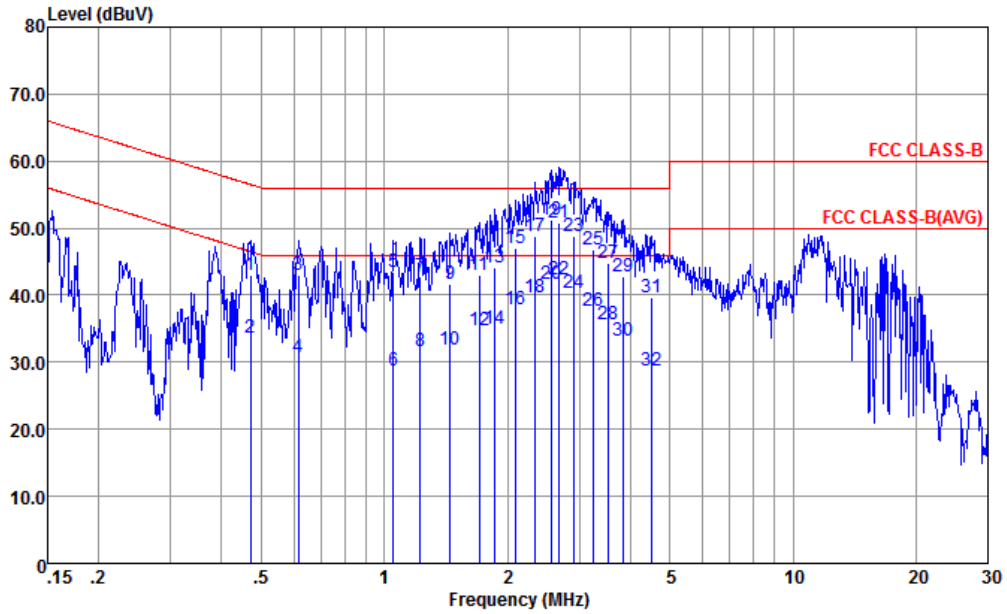
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

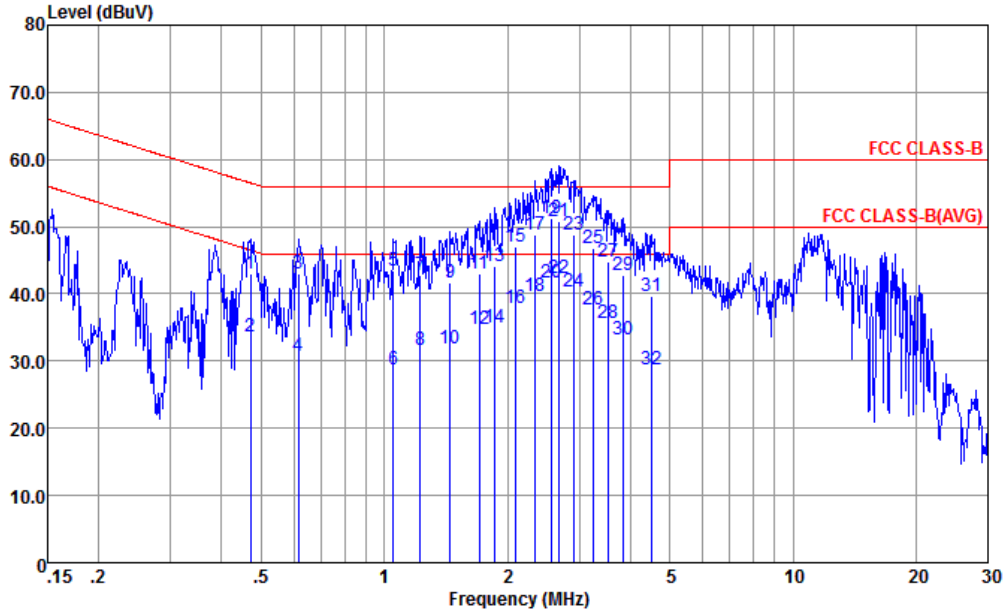
Test Engineer :	Amos Zhang	Temperature :	23.6~24.2℃
		Relative Humidity :	31~33%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Site : CO01-KS
Condition : FCC CLASS-B LISN-L-181013-060103 LINE
Project : (FC) 922103
mode : Mode 4
: 990010440004589 #10

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.471	43.07	-13.42	56.49	32.60	0.23	10.24	QP
2	0.471	33.67	-12.82	46.49	23.20	0.23	10.24	Average
3	0.617	43.07	-12.93	56.00	32.60	0.23	10.24	QP
4	0.617	30.77	-15.23	46.00	20.30	0.23	10.24	Average
5	1.054	43.37	-12.63	56.00	32.90	0.24	10.23	QP
6	1.054	28.67	-17.33	46.00	18.20	0.24	10.23	Average
7	1.223	42.68	-13.32	56.00	32.20	0.25	10.23	QP
8	1.223	31.68	-14.32	46.00	21.20	0.25	10.23	Average
9	1.449	41.68	-14.32	56.00	31.20	0.25	10.23	QP
10	1.449	31.78	-14.22	46.00	21.30	0.25	10.23	Average
11	1.707	43.08	-12.92	56.00	32.59	0.26	10.23	QP
12	1.707	34.68	-11.32	46.00	24.19	0.26	10.23	Average
13	1.858	44.09	-11.91	56.00	33.60	0.26	10.23	QP
14	1.858	35.09	-10.91	46.00	24.60	0.26	10.23	Average
15	2.099	47.09	-8.91	56.00	36.60	0.26	10.23	QP
16	2.099	37.79	-8.21	46.00	27.30	0.26	10.23	Average
17	2.334	48.79	-7.21	56.00	38.30	0.26	10.23	QP

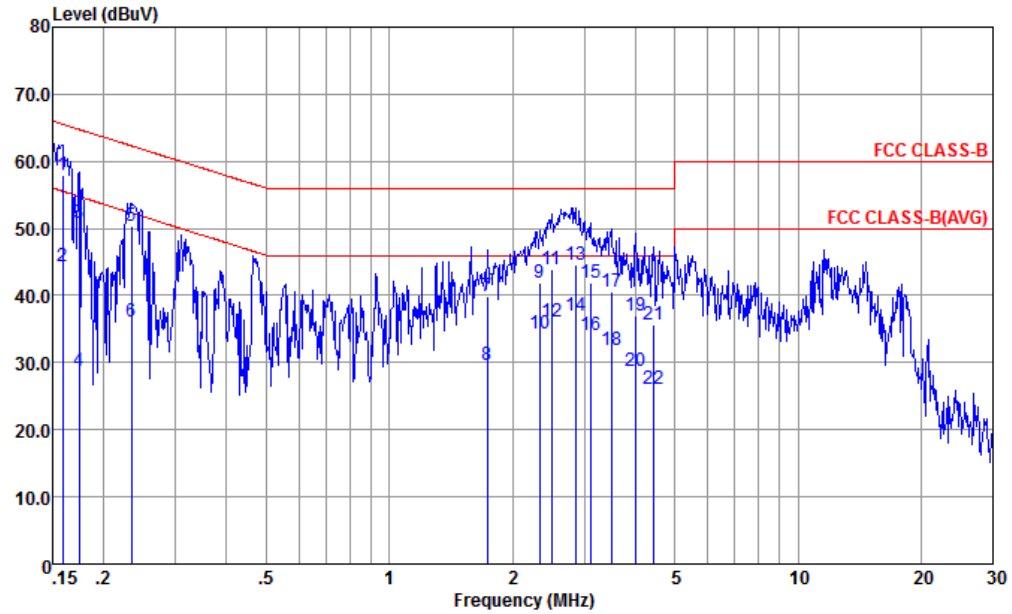
Test Engineer :	Amos Zhang	**Temperature :**	23.6~24.2℃
		Relative Humidity :	31~33%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line



Site : CO01-KS
Condition : FCC CLASS-B LISN-L-181013-060103 LINE
Project : (FC) 922103
mode : Mode 4
: 990010440004589 #10

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
18		2.334	39.69	-6.31	46.00	29.20	0.26	10.23	Average
19		2.554	51.30	-4.70	56.00	40.80	0.26	10.24	QP
20		2.554	41.60	-4.40	46.00	31.10	0.26	10.24	Average
21		2.678	50.70	-5.30	56.00	40.20	0.26	10.24	QP
22	*	2.678	42.30	-3.70	46.00	31.80	0.26	10.24	Average
23		2.900	48.80	-7.20	56.00	38.30	0.26	10.24	QP
24		2.900	40.40	-5.60	46.00	29.90	0.26	10.24	Average
25		3.241	46.81	-9.19	56.00	36.30	0.27	10.24	QP
26		3.241	37.71	-8.29	46.00	27.20	0.27	10.24	Average
27		3.528	44.81	-11.19	56.00	34.29	0.27	10.25	QP
28		3.528	35.71	-10.29	46.00	25.19	0.27	10.25	Average
29		3.840	42.72	-13.28	56.00	32.20	0.27	10.25	QP
30		3.840	33.12	-12.88	46.00	22.60	0.27	10.25	Average
31		4.501	39.73	-16.27	56.00	29.20	0.27	10.26	QP
32		4.501	28.73	-17.27	46.00	18.20	0.27	10.26	Average

Test Engineer :	Amos Zhang	Temperature :	23.6~24.2℃
		Relative Humidity :	31~33%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-181013-060103 NEUTRAL
Project : (FC) 922103
mode : Mode 4
: 990010440004589 #10

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.159	57.96	-7.56	65.52	47.29	0.21	10.46	QP
2		0.159	44.26	-11.26	55.52	33.59	0.21	10.46	Average
3		0.174	50.83	-13.94	64.77	40.21	0.20	10.42	QP
4		0.174	28.83	-25.94	54.77	18.21	0.20	10.42	Average
5		0.234	50.44	-11.86	62.30	39.90	0.20	10.34	QP
6		0.234	36.14	-16.16	52.30	25.60	0.20	10.34	Average
7		1.734	39.95	-16.05	56.00	29.50	0.22	10.23	QP
8		1.734	29.75	-16.25	46.00	19.30	0.22	10.23	Average
9		2.334	41.95	-14.05	56.00	31.50	0.22	10.23	QP
10		2.334	34.35	-11.65	46.00	23.90	0.22	10.23	Average
11		2.500	43.96	-12.04	56.00	33.50	0.22	10.24	QP
12		2.500	36.06	-9.94	46.00	25.60	0.22	10.24	Average
13		2.854	44.66	-11.34	56.00	34.20	0.22	10.24	QP
14		2.854	37.06	-8.94	46.00	26.60	0.22	10.24	Average
15		3.107	41.96	-14.04	56.00	31.50	0.22	10.24	QP
16		3.107	34.06	-11.94	46.00	23.60	0.22	10.24	Average
17		3.491	40.67	-15.33	56.00	30.20	0.22	10.25	QP
18		3.491	31.77	-14.23	46.00	21.30	0.22	10.25	Average
19		4.006	37.07	-18.93	56.00	26.60	0.22	10.25	QP
20		4.006	28.67	-17.33	46.00	18.20	0.22	10.25	Average
21		4.430	35.68	-20.32	56.00	25.20	0.22	10.26	QP
22		4.430	26.08	-19.92	46.00	15.60	0.22	10.26	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:

<Class B Limit>

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

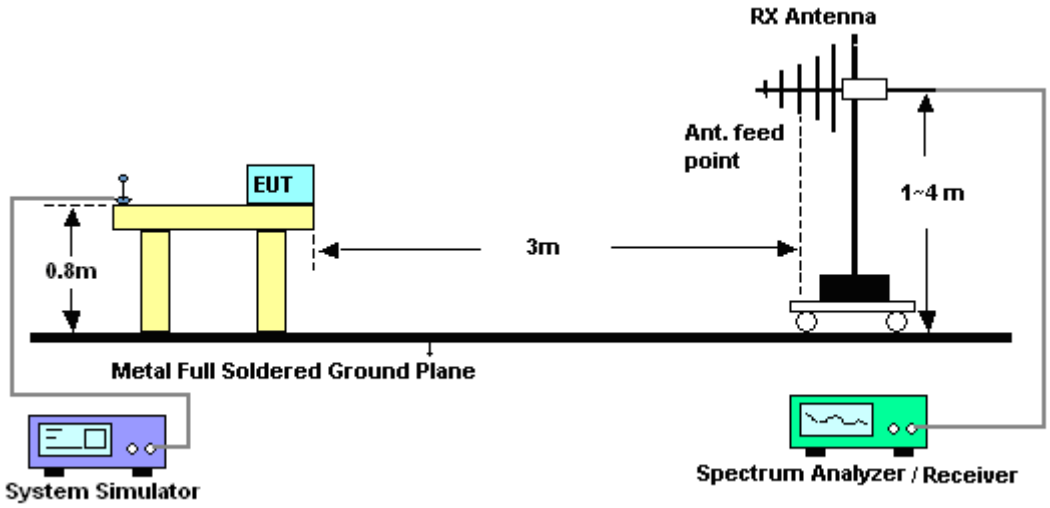
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

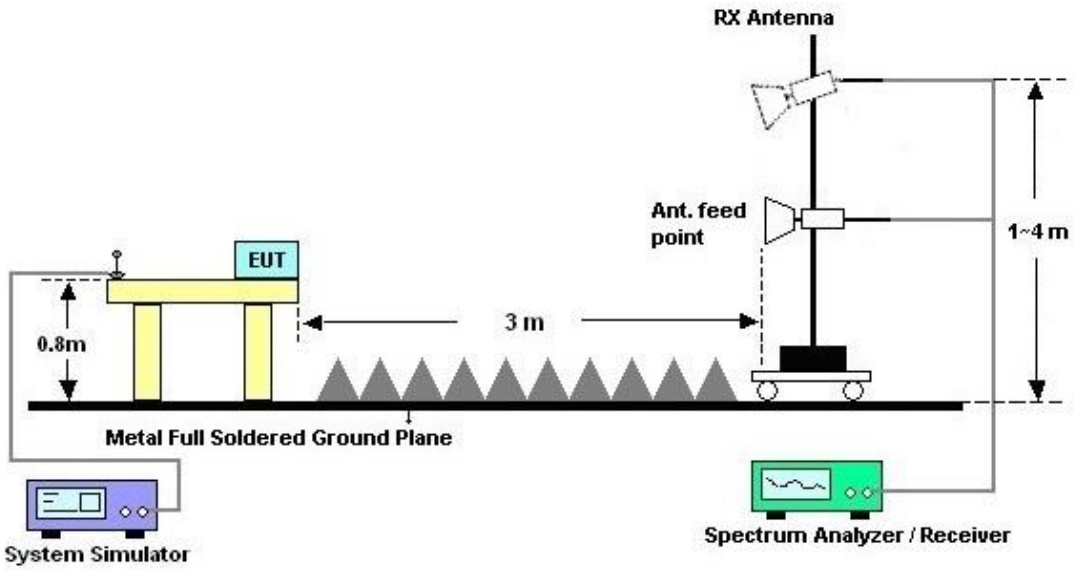
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

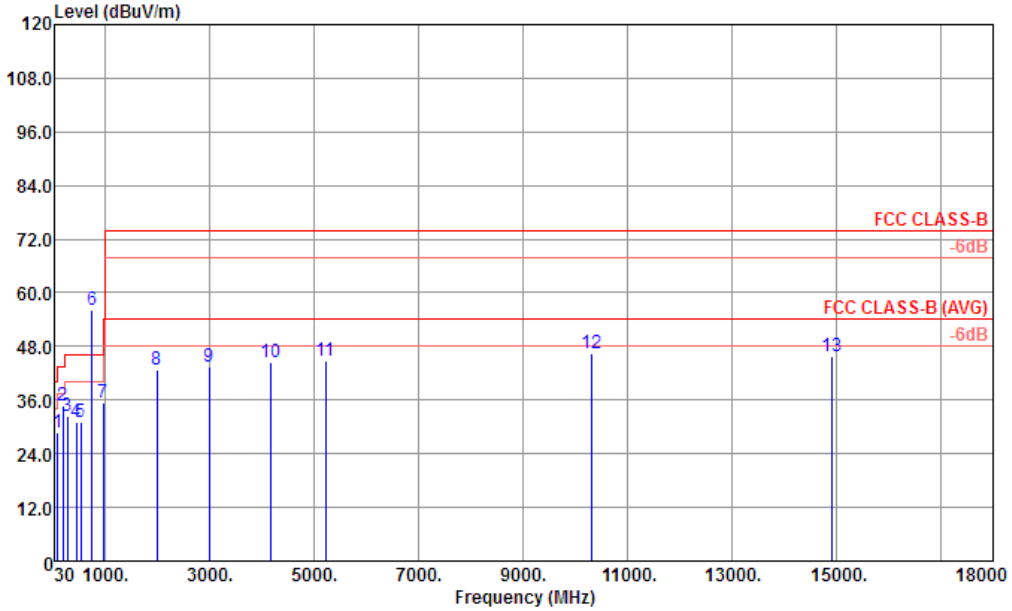


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

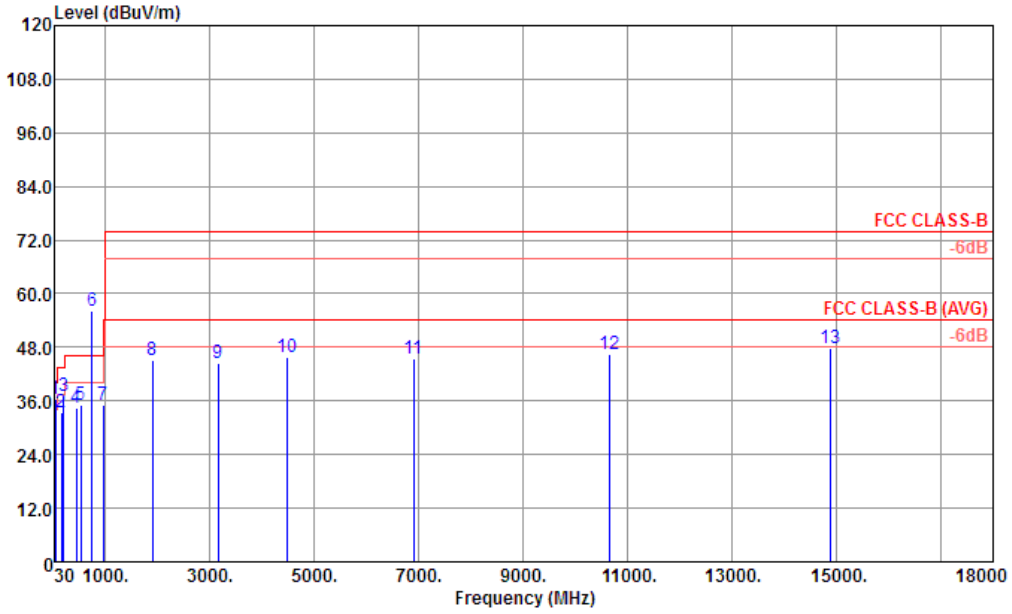
Test Engineer :	Jack Guo	**Temperature :**	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	**Polarization :**	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS
Condition : FCC CLASS-B 3m LF 23182-3M HORIZONTAL
Project : (FC)922103
Mode : 5
IMEI : 990010440004589 #10

		Freq	Level	Over Limit	Limit Line	Read 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		90.14	28.87	-14.63	43.50	45.01	14.80	0.98	31.92	---	---	Peak
2		187.14	34.80	-8.70	43.50	49.74	15.58	1.39	31.91	100	0	Peak
3		276.38	32.48	-13.52	46.00	43.99	18.73	1.78	32.02	---	---	Peak
4		455.83	31.22	-14.78	46.00	38.61	22.68	2.15	32.22	---	---	Peak
5		531.49	31.10	-14.90	46.00	36.62	24.37	2.42	32.31	---	---	Peak
6	*	751.68	56.16			59.36	25.90	3.15	32.25	---	---	Peak
7		960.23	35.52	-18.48	54.00	35.97	27.31	3.13	30.89	---	---	Peak
8		2000.00	42.80	-31.20	74.00	44.53	30.30	5.10	37.13	---	---	Peak
9		2992.00	43.30	-30.70	74.00	42.06	31.99	6.30	37.05	---	---	Peak
10		4184.00	44.53	-29.47	74.00	38.97	34.40	7.61	36.45	---	---	Peak
11		5216.00	44.68	-29.32	74.00	37.51	35.10	8.55	36.48	---	---	Peak
12		10323.00	46.30	-27.70	74.00	33.68	37.21	12.81	37.40	---	---	Peak
13		14913.00	45.95	-28.05	74.00	25.85	40.38	15.61	35.89	---	---	Peak

Test Engineer :	Jack Guo	**Temperature :**	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	**Polarization :**	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS
Condition : FCC CLASS-B 3m LF 23182-3M VERTICAL
Project : (FC)922103
Mode : 5
IMEI : 990010440004589 #10

		Freq	Level	Over Limit	Limit Line	Read 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	!	46.49	36.55	-3.45	40.00	52.94	14.83	0.72	31.94	200	124	QP
2		164.83	33.44	-10.06	43.50	47.98	16.08	1.31	31.93	---	---	Peak
3		204.60	36.99	-6.51	43.50	51.84	15.58	1.48	31.91	---	---	Peak
4		450.98	34.44	-11.56	46.00	41.92	22.61	2.13	32.22	---	---	Peak
5		531.49	35.05	-10.95	46.00	40.57	24.37	2.42	32.31	---	---	Peak
6	*	752.65	56.15			59.33	25.91	3.15	32.24	---	---	Peak
7		960.23	34.96	-19.04	54.00	35.41	27.31	3.13	30.89	---	---	Peak
8		1912.00	44.99	-29.01	74.00	47.43	29.80	4.98	37.22	---	---	Peak
9		3160.00	44.49	-29.51	74.00	42.88	32.17	6.56	37.12	---	---	Peak
10		4496.00	45.72	-28.28	74.00	39.74	34.70	7.93	36.65	---	---	Peak
11		6912.00	45.37	-28.63	74.00	37.08	35.07	9.93	36.71	---	---	Peak
12		10665.00	46.47	-27.53	74.00	33.12	37.45	13.11	37.21	---	---	Peak
13		14895.00	47.77	-26.23	74.00	27.67	40.36	15.61	35.87	---	---	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. 19, 2018	Mar. 01, 2019	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 12, 2018	Mar. 01, 2019	Oct. 11, 2019	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Nov. 19, 2018	Mar. 01, 2019	Nov. 18, 2019	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2018	Mar. 01, 2019	Oct. 11, 2019	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Aug. 06, 2018	Mar. 07, 2019	Aug. 05, 2019	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44G,MAX 30dB	Apr. 17, 2018	Mar. 07, 2019	Apr. 16, 2019	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-2GHz	Dec. 29, 2018	Mar. 07, 2019	Dec. 28, 2019	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 27, 2019	Mar. 07, 2019	Jan. 26, 2020	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2018	Mar. 07, 2019	Aug. 05, 2019	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 18, 2018	Mar. 07, 2019	Apr. 17, 2019	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Mar. 07, 2019	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Mar. 07, 2019	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Mar. 07, 2019	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))	**2.9dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.8dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.2dB**