



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1955-2
FCC ID : IHDT56XQ3
STANDARD : FCC CFR Title 47 Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Sep. 06, 2018 and testing was completed on Sep. 29, 2018. 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. 1098, Pengxi North Road, Kunshan Economic Development Zone,
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. Specification of Accessory 7

 1.7. Test Location 8

 1.8. 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 10

 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 16

4. LIST OF MEASURING EQUIPMENT 21

5. UNCERTAINTY OF EVALUATION 22

APPENDIX A. SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC890604-02	Rev. 01	Initial issue of report	Oct. 29, 2018



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 12.19 dB at 0.449 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.23 dB at 85.290 MHz



1. General Description

1.1. Applicant

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2. Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT1955-2
FCC ID	IHDT56XQ3
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(16QAM not support uplink)/DC-HSDPA/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth BR/EDR/LE
IMEI Code	Conduction: Sample 1: 359520090005632/359520090005640 Radiation: Sample 1: 359520090005616/359520090005624 Sample 2: 359507090008401
HW Version	DVT2
SW Version	fastboot_ocean_oem_userdebug_9_PPO29.36_b671_intcf g-test-keys_oem.tar
EUT Stage	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. There are two types of EUT, the differences between two samples are only for SIM slot, the sample 1 is dual SIM slot, the sample 2 is single SIM slot. According to the difference, we evaluate the sample 1 to perform full test and the sample 2 is verified worse case of the sample 1 for Radiation.



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 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 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 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 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 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 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 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 66 : 2110.7 MHz~ 2179.3 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz FM : 88 MHz ~ 108 MHz
Antenna Type	WWAN : Fixed Internal Antenna WLAN : Monopole Antenna Bluetooth : Monopole Antenna GNSS: Monopole Antenna FM: External headset Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM(16QAM not support uplink) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n) : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -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. Specification of Accessory

Specification of Accessory				
AC Adapter 1 (US)	Brand Name	Motorola(Salom)	Model Name	SC-51
	Power Rating	I/P: 100 - 240 Vac, 0.6A, O/P: 5Vdc -3000mA; 9Vdc -2000mA;12Vdc -1500mA		
AC Adapter 1 (EU)	Brand Name	Motorola(Salom)	Model Name	SC-52
	Power Rating	I/P: 100 - 240 Vac, 0.6A, O/P: 5Vdc -3000mA; 9Vdc -2000mA;12Vdc -1500mA		
AC Adapter 1 (AR)	Brand Name	Motorola(Salom)	Model Name	SC-56
	Power Rating	I/P: 100 - 240 Vac, 0.6A, O/P: 5Vdc -3000mA; 9Vdc -2000mA;12Vdc -1500mA		
AC Adapter 2 (US)	Brand Name	Motorola(Chenyang)	Model Name	SC-51
	Power Rating	I/P: 100 - 240 Vac, 0.6A, O/P: 5Vdc -3000mA; 9Vdc -2000mA;12Vdc -1500mA		
AC Adapter 2 (EU)	Brand Name	Motorola(Chenyang)	Model Name	SC-52
	Power Rating	I/P: 100 - 240 Vac, 0.6A, O/P: 5Vdc -3000mA; 9Vdc -2000mA;12Vdc -1500mA		
AC Adapter 2 (AR)	Brand Name	Motorola(Chenyang)	Model Name	SC-56
	Power Rating	I/P: 100 - 240 Vac, 0.6A, O/P: 5Vdc -3000mA; 9Vdc -2000mA;12Vdc -1500mA		
Earphone	Brand Name	Motorola(Lianyun)	Model Name	LYM500B-36C-003
	Signal Line	1.2 meter, non-shielded cable, without ferrite core		
USB Cable	Brand Name	Motorola(Saibao)	Model Name	711310002491
	Signal Line	1.0 meter, shielded cable, without ferrite core		
Battery	Brand Name	Motorola (SCUD)	Model Name	JK50
	Power Rating	3.8Vdc,5000mAh	Type	Li-ion



1.7. Test Location

Sporton International (Kunshan) Inc. 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 03CH06-KS	CN5013	630927

1.8. Applicable Standards

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

- FCC CFR Title 47 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

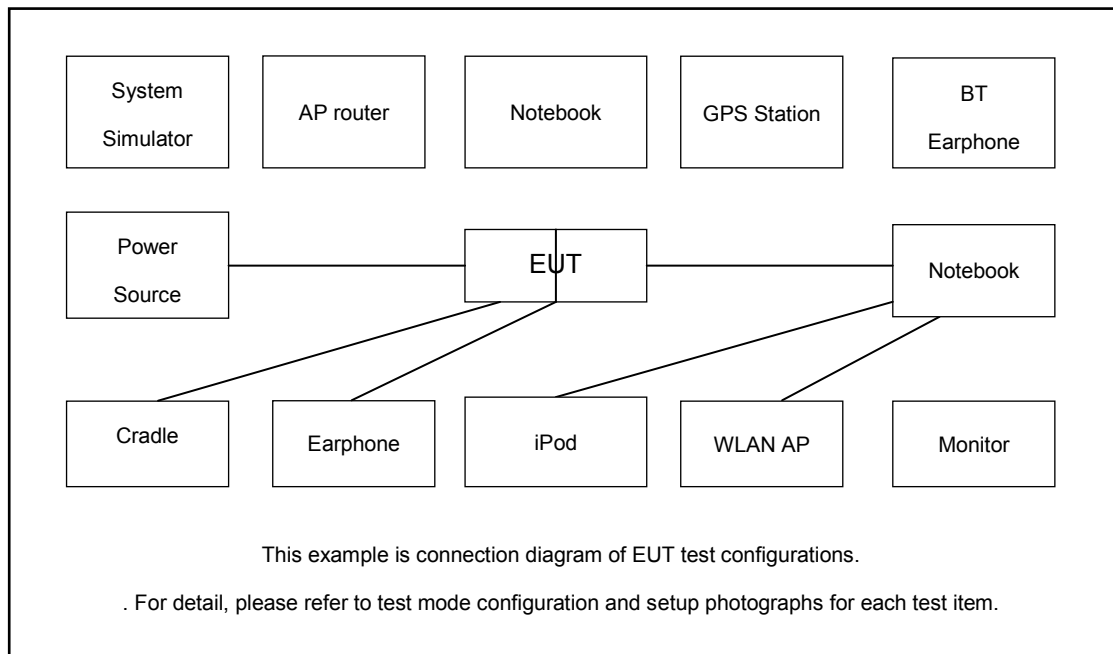
2.1. Test Mode

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 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + Camera (Rear) for Sample 1
	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + Camera (Front) for Sample 1
	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + MPEG4 for Sample 1
	Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + FM Rx(98MHz) for Sample 1
	Mode 5: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx for Sample 1
	Mode 6: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 2) + Earphone + MPEG4 for Sample 1
Radiated Emissions	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + Camera (Rear) for Sample 1
	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + Camera (Front) for Sample 1
	Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + MPEG4 for Sample 1
	Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 1) + Earphone + FM Rx(98MHz) for Sample 1
	Mode 5: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx for Sample 1
	Mode 6: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Charging from Adapter 2) + Earphone + GNSS Rx for Sample 1
	Mode 7: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable(Data Link with Notebook) + Earphone + GNSS Rx for Sample 2
Remark:	
<ol style="list-style-type: none"> 1. The worst case of AC is mode 5; 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. 	

2.2. Connection Diagram of Test System



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.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	Unshielded, 1.8m
4.	GNSS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8m
5.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8m
6.	WLAN AP	TP-LINK	TL-WDR5600	N/A	N/A	Unshielded, 1.8m
7.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
8.	Notebook	Lenovo	Y510P	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
9.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
10.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
11.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
12.	SD Card	Kingston	8GB	N/A	N/A	N/A
13.	USB HD	Lenovo	LH310	N/A	Shielded, 1.2m	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 GNSS function to make the EUT receive continuous signals from GNSS station.
3. Turn on FM function to make the EUT receive continuous signals from FM station.
4. Execute "Video Player" to play MPEG4 files.
5. Turn on camera to capture images.



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

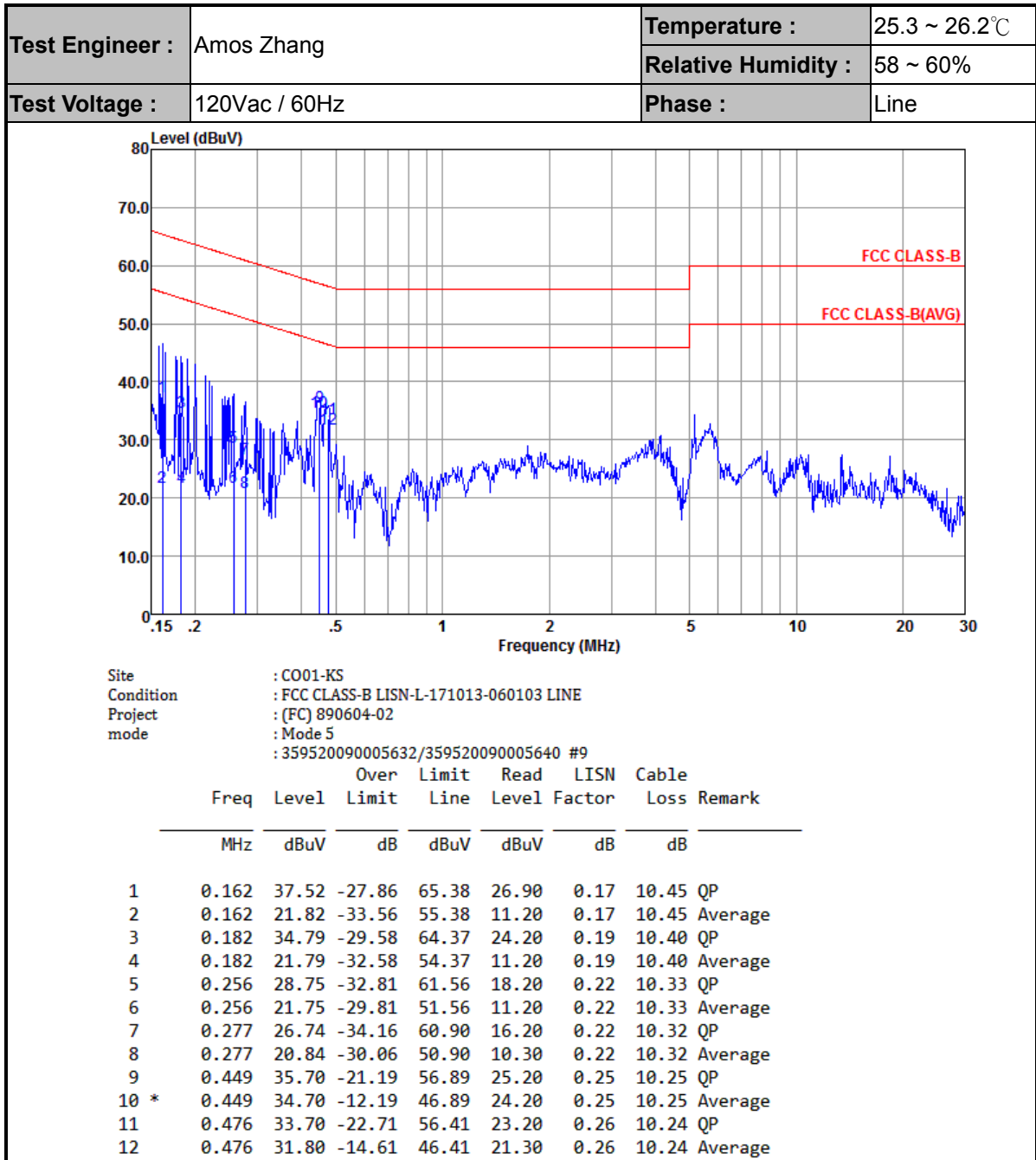
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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



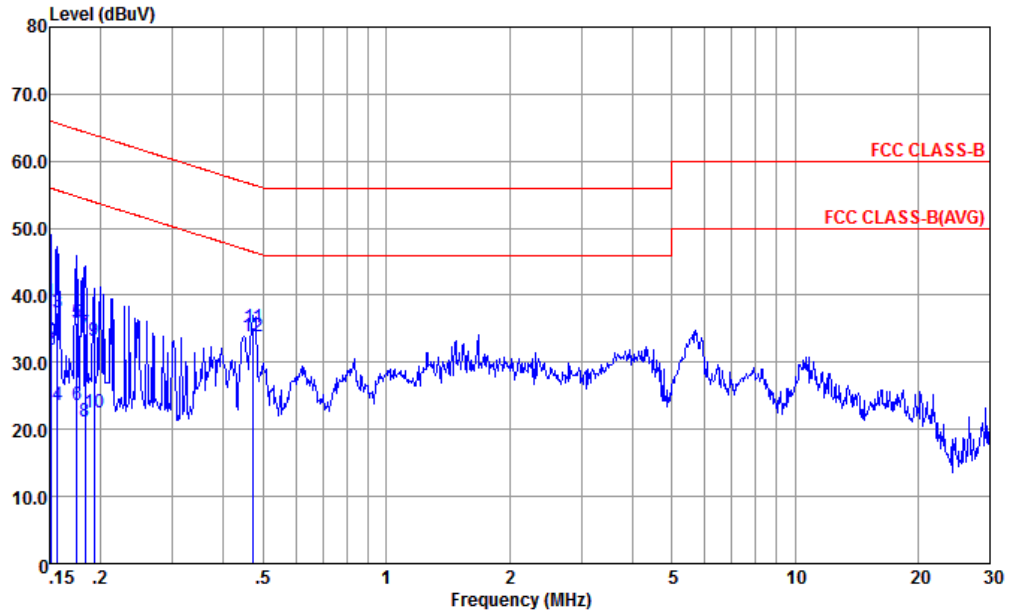


3.1.5 Test Result of AC Conducted Emission





Test Engineer :	Amos Zhang	Temperature :	25.3 ~ 26.2°C
		Relative Humidity :	58 ~ 60%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS
 Condition : FCC CLASS-B LISN-N-171013-060103 NEUTRAL
 Project : (FC) 890604-02
 mode : Mode 5
 : 359520090005632/359520090005640 #9

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	38.96	-27.00	65.96	28.20	0.28	10.48	QP
2	0.151	31.86	-24.10	55.96	21.10	0.28	10.48	Average
3	0.156	37.54	-28.11	65.65	26.80	0.28	10.46	QP
4	0.156	23.54	-32.11	55.65	12.80	0.28	10.46	Average
5	0.175	35.90	-28.82	64.72	25.20	0.28	10.42	QP
6	0.175	23.60	-31.12	54.72	12.90	0.28	10.42	Average
7	0.183	34.28	-30.05	64.33	23.60	0.28	10.40	QP
8	0.183	21.28	-33.05	54.33	10.60	0.28	10.40	Average
9	0.192	33.16	-30.77	63.93	22.50	0.28	10.38	QP
10	0.192	22.56	-31.37	53.93	11.90	0.28	10.38	Average
11	0.474	35.13	-21.32	56.45	24.60	0.29	10.24	QP
12 *	0.474	33.83	-12.62	46.45	23.30	0.29	10.24	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.

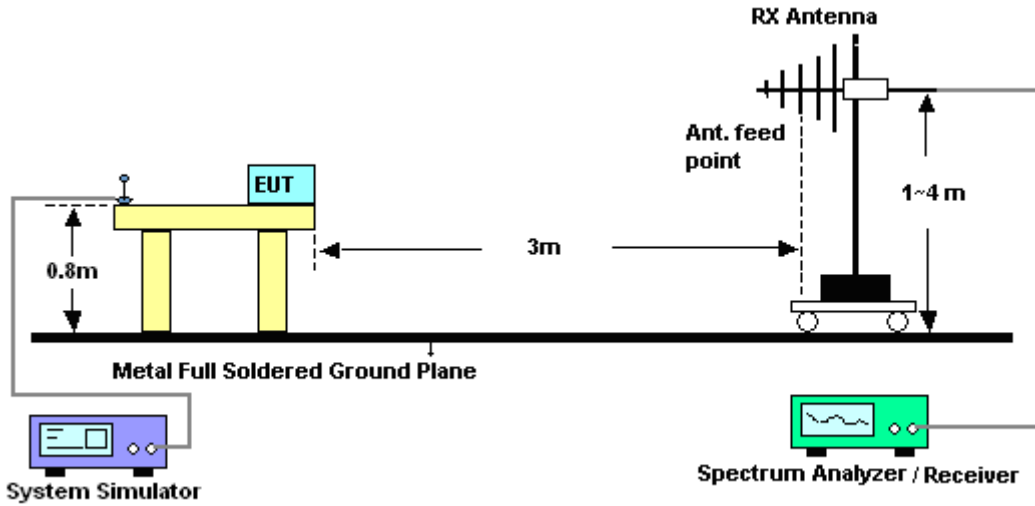


3.2.3. Test Procedures

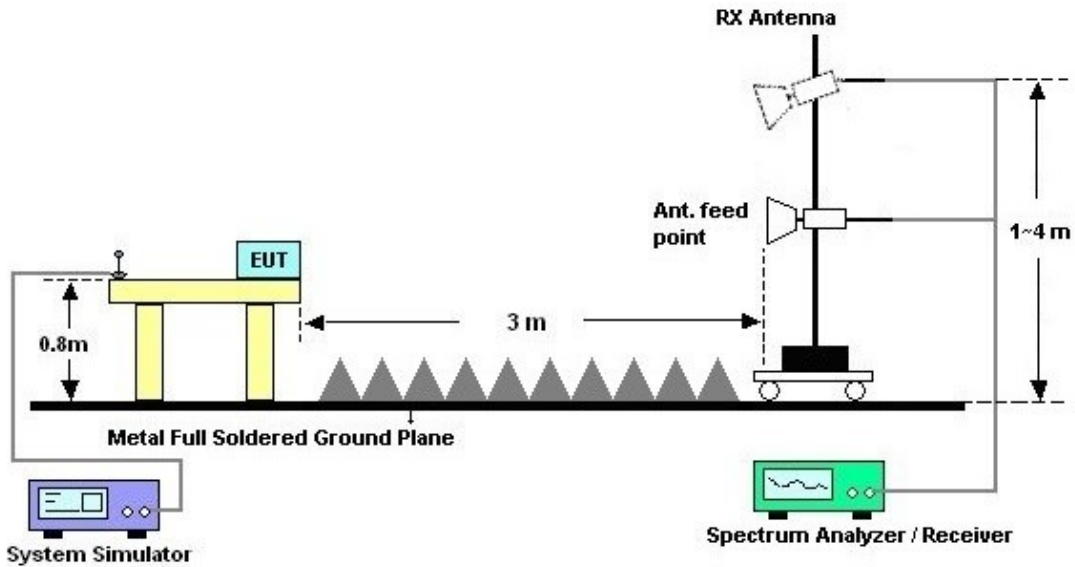
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

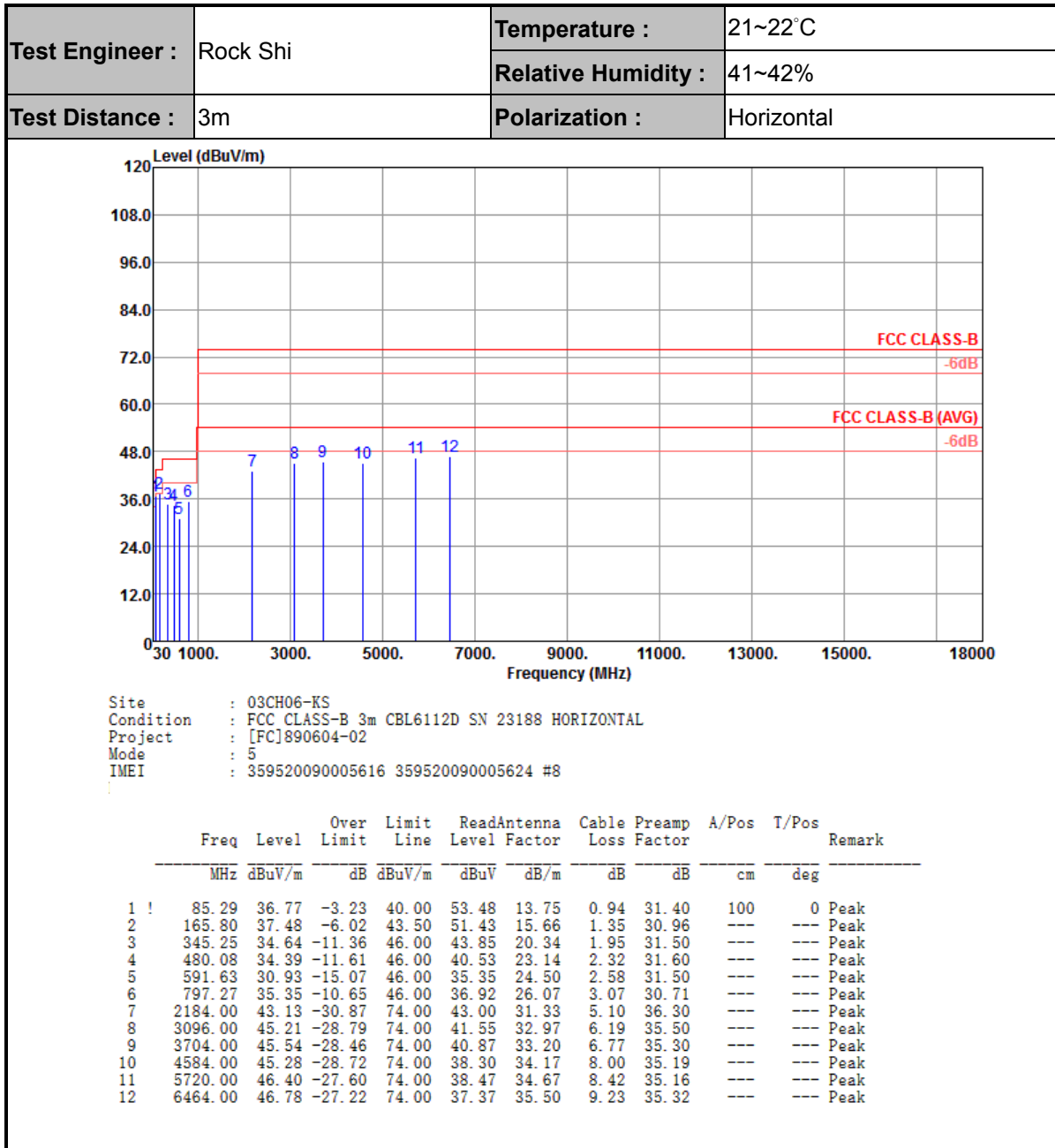


For radiated emissions above 1GHz



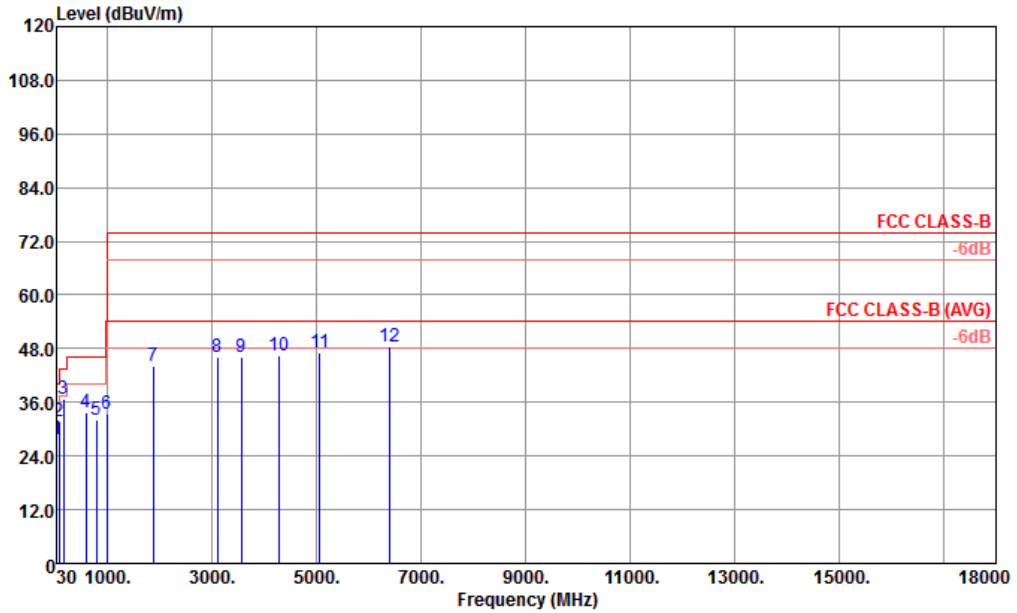


3.2.5. Test Result of Radiated Emission





Test Engineer :	Rock Shi	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH06-KS
 Condition : FCC CLASS-B 3m CBL6112D SN 23188 VERTICAL
 Project : [FC]890604-02
 Mode : 5
 IMEI : 359520090005616 359520090005624 #8

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	41.64	27.77	-12.23	40.00	40.93	17.50	0.62	31.28	---	---	Peak
2	84.32	31.81	-8.19	40.00	48.74	13.54	0.93	31.40	---	---	Peak
3	165.80	36.66	-6.84	43.50	50.61	15.66	1.35	30.96	100	0	Peak
4	595.51	33.70	-12.30	46.00	38.07	24.55	2.58	31.50	---	---	Peak
5	799.21	31.97	-14.03	46.00	33.50	26.09	3.08	30.70	---	---	Peak
6	997.09	33.30	-20.70	54.00	33.94	27.47	3.38	31.49	---	---	Peak
7	1880.00	44.18	-29.82	74.00	44.80	31.33	4.75	36.70	---	---	Peak
8	3112.00	46.26	-27.74	74.00	42.57	33.00	6.19	35.50	---	---	Peak
9	3568.00	46.16	-27.84	74.00	41.91	32.93	6.62	35.30	---	---	Peak
10	4280.00	46.53	-27.47	74.00	40.74	33.40	7.37	34.98	---	---	Peak
11	5064.00	47.06	-26.94	74.00	39.90	34.13	8.14	35.11	---	---	Peak
12	6400.00	48.37	-25.63	74.00	38.92	35.50	9.25	35.30	---	---	Peak



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Oct. 19, 2017	Sep. 28, 2018	Oct. 18, 2018	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44GHz	Oct. 10, 2017	Sep. 28, 2018	Oct. 09, 2018	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 29, 2018	Sep. 28, 2018	Jan. 28, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	Sep. 28, 2018	Oct. 20, 2018	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Sep. 28, 2018	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Dec. 16, 2017	Sep. 28, 2018	Dec. 15, 2018	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Sep. 28, 2018	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Sep. 28, 2018	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Sep. 28, 2018	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 19, 2018	Sep. 29, 2018	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Sep. 29, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Sep. 29, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	Sep. 29, 2018	Oct. 11, 2018	Conduction (CO01-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
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
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