FCC Test Report

APPLICANT	:	**Xiaomi Communications Co., Ltd.**
EQUIPMENT	:	**Mobile Phone**
BRAND NAME	:	**MI**
MODEL NAME	:	**M1803E1A**
FCC ID	:	**2AFZZ-XME1A**
STANDARD	:	**FCC CFR Title 47 Part 15 Subpart B**
CLASSIFICATION	:	**Certification**

The product was received on Apr. 20, 2018 and testing was completed on May 18, 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.

James Huang

Approved by: James Huang / Manager

NVLAP®
TESTING
NVLAP LAB CODE 600155-0

Sporton International (Kunshan) Inc.
No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC842002	Rev. 01	Initial issue of report	Jun. 11, 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 6.06 dB at 0.192 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.16 dB at 480.080 MHz

1. General Description

1.1. Applicant

Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing,China

1.2. Manufacturer

Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	MI
Model Name	M1803E1A
FCC ID	2AFZZ-XME1A
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.2 LE/ Bluetooth v5.0 LE
IMEI Code	Conduction:867252030135676/867252030135684 for sample1 867252030158231/867252030158249 for sample2 Radiation: 867252030137797/867252030137797 for sample1 867252030158017/867252030158025 for sample2
HW Version	P2
SW Version	MIUI 9
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 difference between two samples is for memory, the sample 1 is 6+64GB capacity and the sample 2 is 6+128GB capacity. According to the difference, we only choose sample 1 to perform full test, and the sample 2 verified the difference with the sample 1.

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 12 : 699.7 MHz ~ 715.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2537.5 MHz ~ 2652.5 MHz CDMA2000 BC0 : 824.70 MHz ~ 848.31 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 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 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2537.5 MHz ~ 2652.5 MHz CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz, 1164 MHz ~ 1215 MHz NFC : 13.56 MHz
Antenna Type	WWAN : Dipole Antenna WLAN Antenna 1:Dipole Antenna WLAN Antenna 2:PFA Antenna Bluetooth : Dipole Antenna NFC : Planar Antenna GNSS: Dipole 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 (Uplink is not supported) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK 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) : π/4-DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK

Note: GNSS=GPS + GLONASS + Beidou + Galileo

1.5. Modification of EUT

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

1.6. Test Location

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

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**		**FCC Test Firm Registration No.**
	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 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.

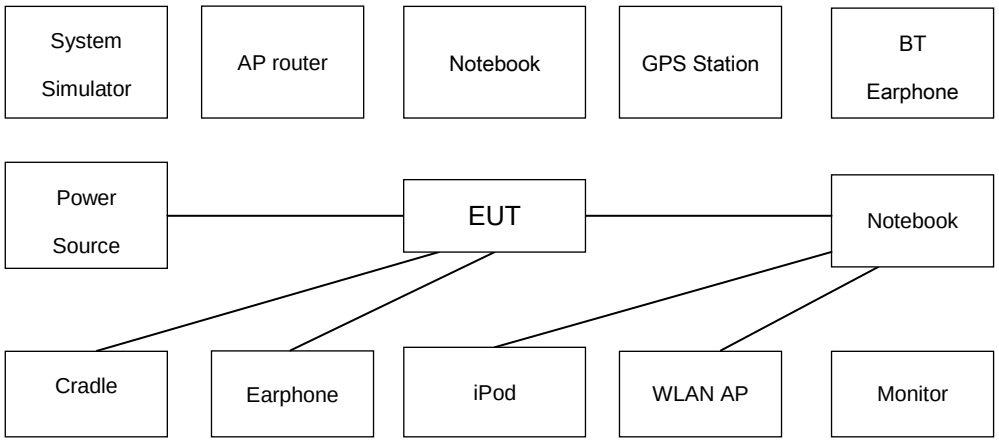
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Idle + Bluetooth Idle + WLAN(2.4G) Idle + Camera(Rear) + USB Cable1 (Charging from Adapter) + SIM 1 for sample1 Mode 2: GSM 1900 Idle + Bluetooth Idle + WLAN(5G) Idle + Camera(Front) + USB Cable2 (Charging from Adapter) + SIM2 for sample1 Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN(2.4G) Idle + MPEG4 + USB Cable1 (Charging from Adapter) + SIM1 for sample1 Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN (5G) Idle + NFC ON + USB Cable1(Charging from Adapter) + SIM 2 for sample1 Mode 5: LTE Band 2 Idle + Bluetooth Idle + WLAN (2.4G) Idle + GNSS RX + USB Cable1(Data Link with Notebook) + SIM 1 for sample1 Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + GNSS RX + USB Cable2(Data Link with Notebook) + SIM 2 for sample1 Mode 7: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + GNSS RX + USB Cable2(Data Link with Notebook) + SIM 2 for sample2
Radiated Emissions	Mode 1: GSM 850 Idle + Bluetooth Idle + WLAN(2.4G) Idle + Camera(Rear) + USB Cable1 (Charging from Adapter) + SIM 1 for sample1 Mode 2: GSM 1900 Idle + Bluetooth Idle + WLAN(5G) Idle + Camera(Front) + USB Cable2 (Charging from Adapter) + SIM2 for sample1 Mode 3: WCDMA Band V Idle + Earphone + Bluetooth Idle + WLAN(2.4G) Idle + MPEG4 + Type C to earphone Cable1 + SIM1 for sample1 Mode 4: LTE Band 4 Idle + Earphone + Bluetooth Idle + WLAN (5G) Idle + NFC ON + Type C to earphone Cable2 + SIM 2 for sample1 Mode 5: LTE Band 2 Idle + Bluetooth Idle + WLAN (2.4G) Idle + GNSS RX + USB Cable1(Data Link with Notebook) + SIM 1 for sample1 Mode 6: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + GNSS RX + USB Cable2(Data Link with Notebook) + SIM 2 for sample1 Mode 7: LTE Band 7 Idle + Bluetooth Idle + WLAN (5G) Idle + GNSS RX + USB Cable2(Data Link with Notebook) + SIM 2 for sample2

Remark:

1. The worst case of AC is mode 1; only the test data of this mode is reported.
2. The worst case of RE is mode 6; 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



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	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
3.	GNSS Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8 m
4.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
5.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
6.	Router	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded,1.8m
7.	Router	TP-LINK	TL-WDR5600	N/A	N/A	Unshielded,1.8m
8.	SD Card	Kingston	8GB	N/A	N/A	N/A
9.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
10.	Signal Generator	R&S	SMBV100A	N/A	N/A	Unshielded,1.8m

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. Execute "Video player" to play MPEG4 files.
3. Turn on camera to capture images.
4. Turn on NFC function.
5. Turn on FM receiver function to make the EUT receive continuous signals from FM station.
6. Turn on GNSS receiver 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.

<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.

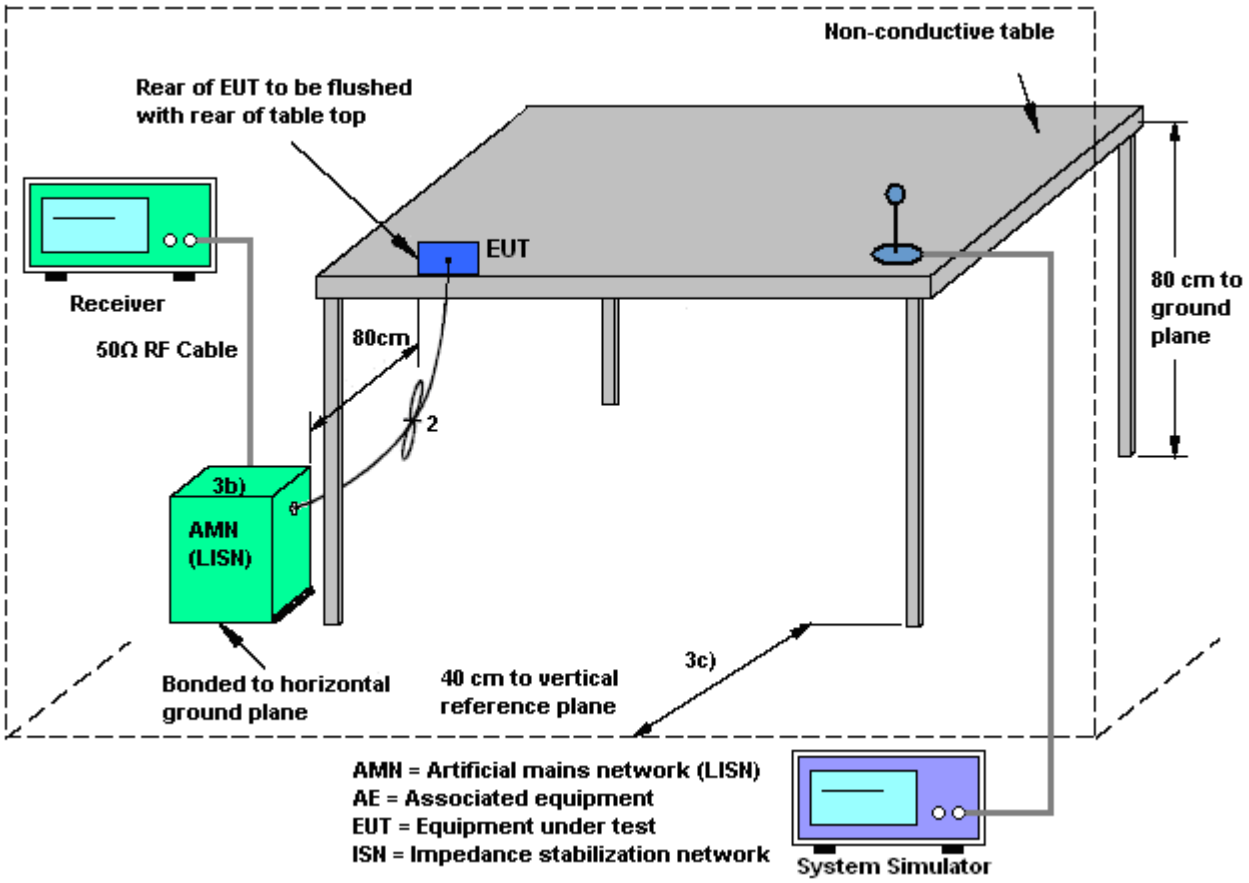
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

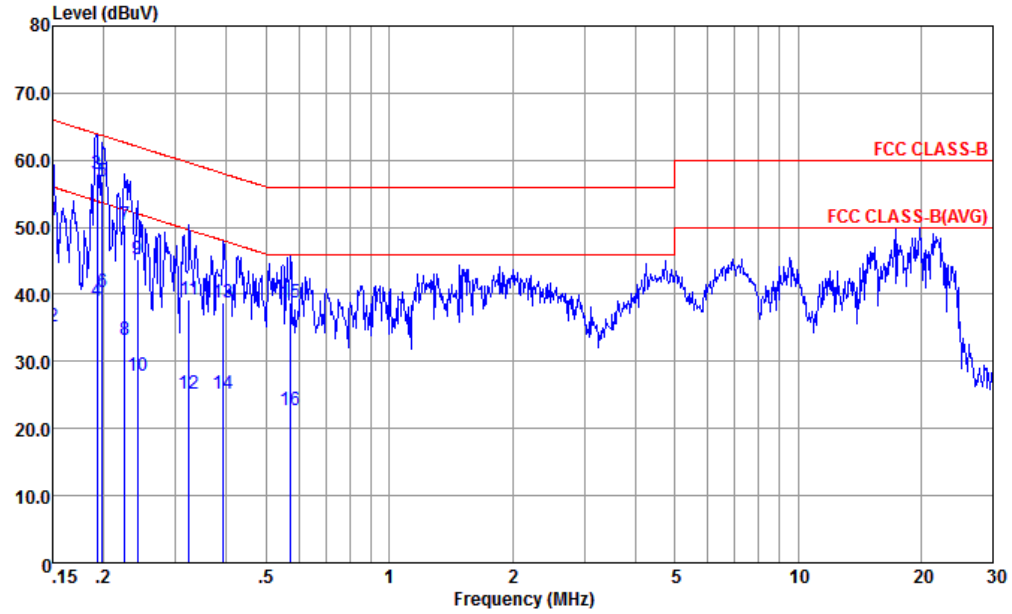
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

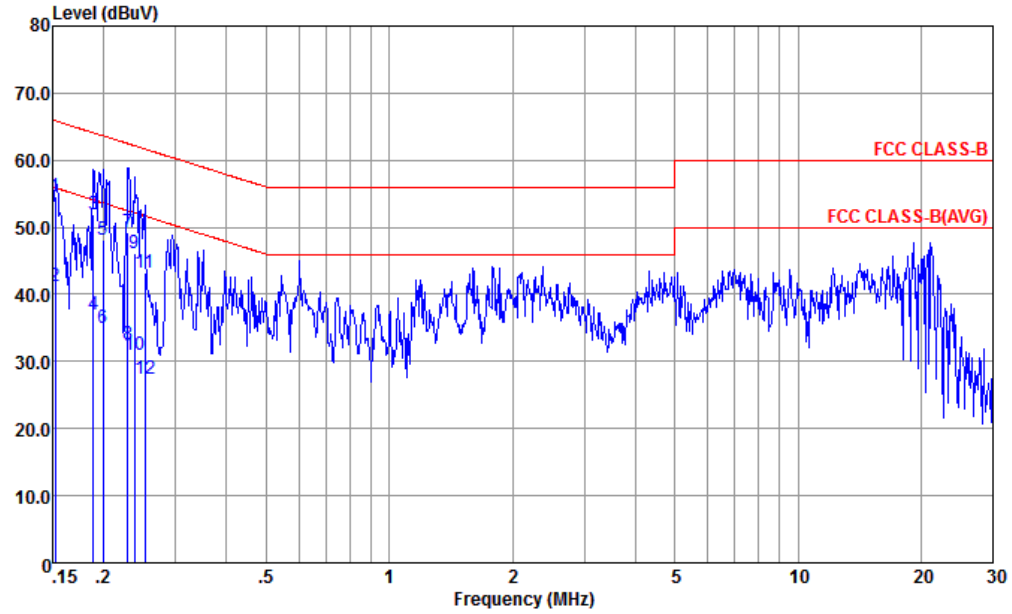
Test Engineer :	Amos Zhang	Temperature :	22.1~22.7℃
		Relative Humidity :	41~44%
Test Voltage :	120Vac / 60Hz	Phase :	Line



Site : CO01-KS
Condition : FCC CLASS-B LISN-L-171013-060103 LINE
Project : (FC) 842002
mode : Mode 1
: 867252030135676/867252030135684 #10

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.150	50.98	-15.02	66.00	40.20	0.16	10.62	QP
2		0.150	35.28	-20.72	56.00	24.50	0.16	10.62	Average
3	*	0.192	57.87	-6.06	63.93	47.19	0.20	10.48	QP
4		0.192	38.97	-14.96	53.93	28.29	0.20	10.48	Average
5		0.199	56.86	-6.81	63.67	46.20	0.20	10.46	QP
6		0.199	40.26	-13.41	53.67	29.60	0.20	10.46	Average
7		0.226	50.25	-12.36	62.61	39.59	0.21	10.45	QP
8		0.226	33.25	-19.36	52.61	22.59	0.21	10.45	Average
9		0.242	45.15	-16.89	62.04	34.50	0.21	10.44	QP
10		0.242	27.85	-24.19	52.04	17.20	0.21	10.44	Average
11		0.323	39.15	-20.47	59.62	28.50	0.23	10.42	QP
12		0.323	25.25	-24.37	49.62	14.60	0.23	10.42	Average
13		0.393	38.85	-19.14	57.99	28.20	0.24	10.41	QP
14		0.393	25.25	-22.74	47.99	14.60	0.24	10.41	Average
15		0.573	38.71	-17.29	56.00	28.20	0.26	10.25	QP
16		0.573	22.81	-23.19	46.00	12.30	0.26	10.25	Average

Test Engineer :	Amos Zhang	Temperature :	22.1~22.7℃
		Relative Humidity :	41~44%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-171013-060103 NEUTRAL
Project : (FC) 842002
mode : Mode 1
: 867252030135676/867252030135684 #10

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.152	54.49	-11.38	65.87	43.60	0.28	10.61	QP
2	0.152	41.19	-14.68	55.87	30.30	0.28	10.61	Average
3	0.188	51.97	-12.14	64.11	41.20	0.28	10.49	QP
4	0.188	36.97	-17.14	54.11	26.20	0.28	10.49	Average
5	0.200	48.24	-15.38	63.62	37.50	0.28	10.46	QP
6	0.200	34.94	-18.68	53.62	24.20	0.28	10.46	Average
7	0.229	49.33	-13.15	62.48	38.60	0.28	10.45	QP
8	0.229	32.53	-19.95	52.48	21.80	0.28	10.45	Average
9	0.238	46.23	-15.94	62.17	35.51	0.28	10.44	QP
10	0.238	30.93	-21.24	52.17	20.21	0.28	10.44	Average
11	0.252	43.22	-18.47	61.69	32.50	0.28	10.44	QP
12	0.252	27.32	-24.37	51.69	16.60	0.28	10.44	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

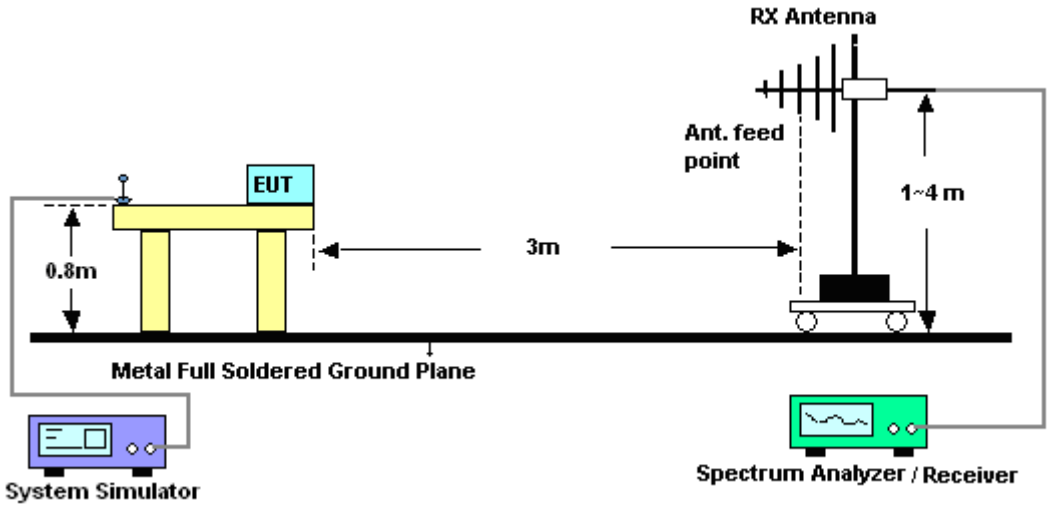
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

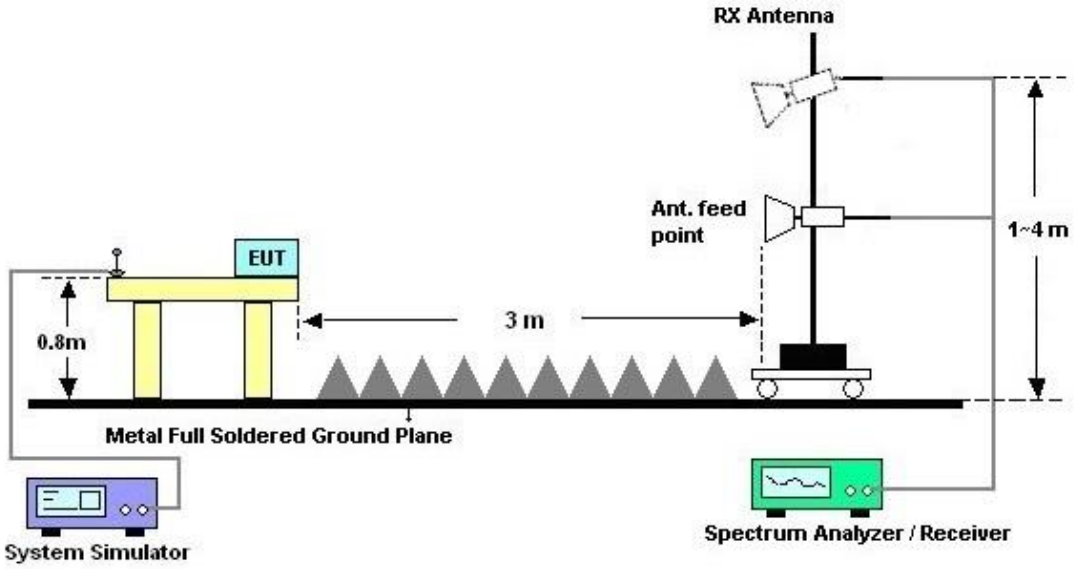
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

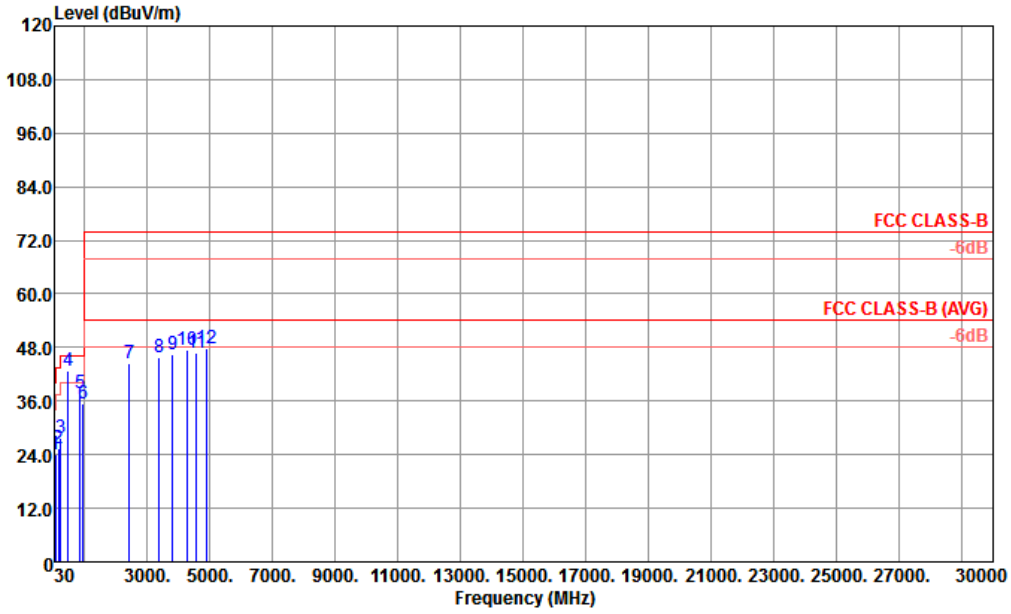


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

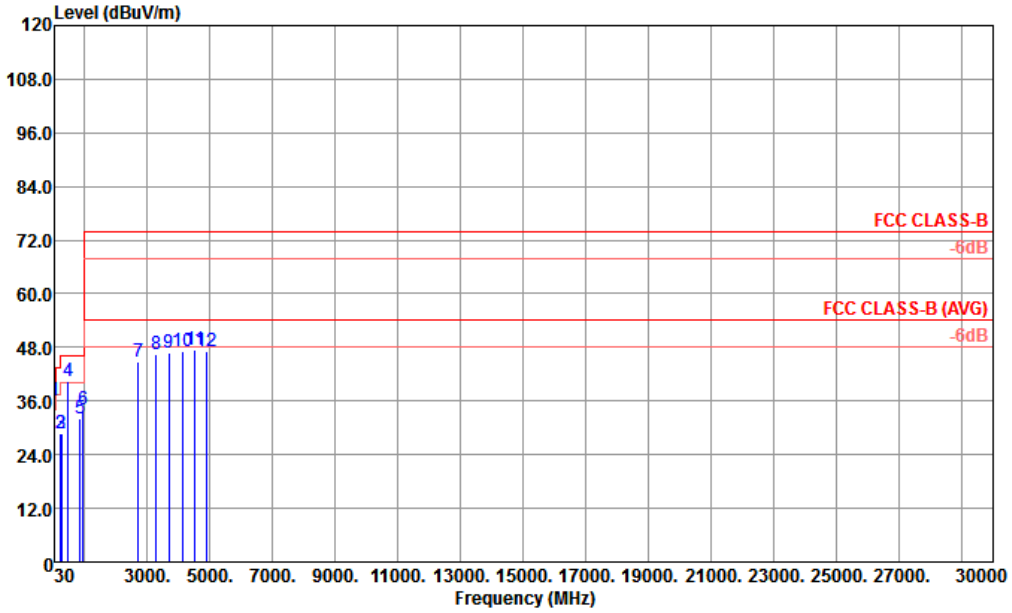
Test Engineer :	Carl Ni	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal



Site : 03CH02-KS
Condition : FCC CLASS-B 3m LF 47610 HORIZONTAL
Project : (FC)842002
Mode : 6
IMEI : 867252030137797 867252030137797 #15

		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		61.04	24.10	-15.90	40.00	43.05	12.39	0.81	32.15	---	---	Peak
2		153.19	25.38	-18.12	43.50	39.56	16.38	1.27	31.83	---	---	Peak
3		229.82	27.74	-18.26	46.00	41.41	16.30	1.63	31.60	---	---	Peak
4	!	480.08	42.84	-3.16	46.00	47.72	23.22	2.30	30.40	100	0	Peak
5		862.26	37.80	-8.20	46.00	36.18	26.38	3.06	27.82	---	---	Peak
6		948.59	35.29	-10.71	46.00	32.35	26.89	3.20	27.15	---	---	Peak
7		2435.00	44.51	-29.49	74.00	44.61	31.36	5.19	36.65	---	---	Peak
8		3370.00	45.64	-28.36	74.00	42.42	33.33	6.27	36.38	---	---	Peak
9		3810.00	46.32	-27.68	74.00	41.47	34.78	6.63	36.56	---	---	Peak
10		4280.00	47.44	-26.56	74.00	41.50	35.56	7.23	36.85	---	---	Peak
11		4570.00	46.91	-27.09	74.00	40.31	35.85	7.58	36.83	---	---	Peak
12		4910.00	47.76	-26.24	74.00	41.13	35.58	7.79	36.74	---	---	Peak

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



Site : 03CH02-KS
Condition : FCC CLASS-B 3m LF 47610 VERTICAL
Project : (FC)842002
Mode : 6
IMEI : 867252030137797 867252030137797 #15

	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 !	36.79	36.19	-3.81	40.00	46.59	21.00	0.64	32.04	100	0	Peak
2	229.82	28.74	-17.26	46.00	42.41	16.30	1.63	31.60	---	---	Peak
3	264.74	28.89	-17.11	46.00	39.11	19.40	1.80	31.42	---	---	Peak
4 !	480.08	40.29	-5.71	46.00	45.17	23.22	2.30	30.40	---	---	Peak
5	862.26	31.95	-14.05	46.00	30.33	26.38	3.06	27.82	---	---	Peak
6	951.50	34.10	-11.90	46.00	31.10	26.92	3.21	27.13	---	---	Peak
7	2715.00	44.79	-29.21	74.00	44.20	31.85	5.60	36.86	---	---	Peak
8	3290.00	46.57	-27.43	74.00	43.66	33.23	6.24	36.56	---	---	Peak
9	3695.00	46.96	-27.04	74.00	42.55	34.37	6.53	36.49	---	---	Peak
10	4135.00	47.24	-26.76	74.00	41.57	35.32	7.16	36.81	---	---	Peak
11	4515.00	47.56	-26.44	74.00	41.12	35.89	7.39	36.84	---	---	Peak
12	4875.00	47.12	-26.88	74.00	40.50	35.61	7.75	36.74	---	---	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	May 18, 2018	Apr. 18, 2019	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	May 18, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	May 18, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2017	May 18, 2018	Oct. 11, 2018	Conduction (CO01-KS)
Transient limiter	COM-POWER	LIT-153	531040	150kHz~30MHz	Aug. 25, 2017	May 18, 2018	Aug. 24, 2018	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Aug. 08, 2017	May 15, 2018	Aug. 07, 2018	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44G,MAX 30dB	Apr. 17, 2018	May 15, 2018	Apr. 16, 2019	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-2GHz	Jan. 29, 2018	May 15, 2018	Jan. 28, 2019	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 21, 2017	May 15, 2018	Oct. 20, 2018	Radiation (03CH02-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	May 15, 2018	Feb. 06, 2019	Radiation (03CH02-KS)
Amplifier	MITEQ	TTA1840-35-HG	1887435	18~40GHz	Oct. 12, 2017	May 15, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 07, 2017	May 15, 2018	Aug. 06, 2018	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 12, 2017	May 15, 2018	Oct. 11, 2018	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	May 15, 2018	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	May 15, 2018	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	May 15, 2018	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**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.2 dB**

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

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

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7 dB**