



FCC Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : Xiaomi
MODEL NAME : A301XM
FCC ID : 2AFZZND5R
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Jun. 05, 2023

We, Sporton International Inc. (Shenzhen), 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 Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC351205-01	Rev. 01	Initial issue of report	Jul. 04, 2023



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 7.82 dB at 0.16 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 7.38 dB at 64.92 MHz

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1. General Description

1.1. Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2. Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	A301XM
FCC ID	2AFZZND5R
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11ax (HE20/HE40/HE80/HE160) Bluetooth BR/EDR/LE GNSS/NFC
IMEI Code	Conduction: 869272060011025/869272060011033 Radiation: 869272060002727/869272060002735 for Sample 1 869272060000721/869272060000739 for Sample 2
HW Version	P2.0
SW Version	MIUI 14
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. The device support P-SIM and E-SIM, both P-SIM and E-SIM modes are verified.
3. There are two type of EUT, the differences are shown as below table. According to the difference, we chose sample 1 to perform full test and sample 2 to verify the worst cases of sample 1.

Sample No.	Display	Back Cover	Memory
Sample 1	TIANMA	Glass back cover	12+256GB
Sample 2	TIANMA	PU back cover	12+256GB



	802.11ax: 5925 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz GNSS : 1559 MHz ~ 1610 MHz, 1164 MHz ~ 1215 MHz
Antenna Type	WWAN : Fixed Internal Antenna WLAN : Fixed Internal Antenna Bluetooth : Fixed Internal Antenna GNSS: Fixed Internal Antenna NFC: FPC Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 256QAM(Downlink Only) 5G NR: DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM /1024QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK

1.5. Modification of EUT

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



1.6. Test Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH05-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

1.8. 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.

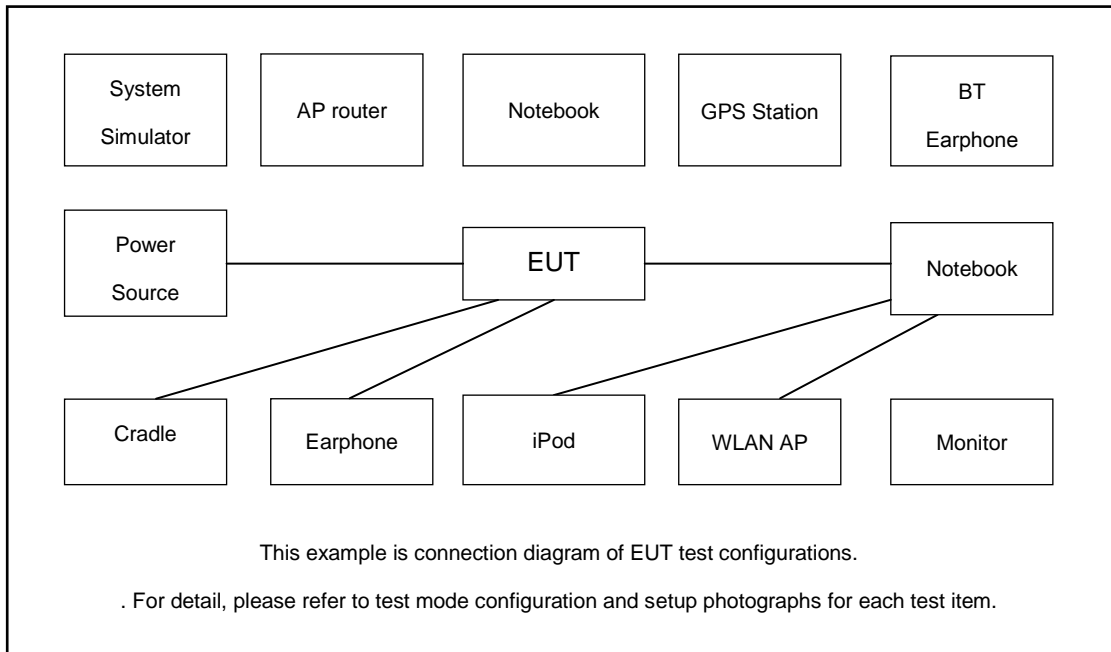
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Rx(Middle)+ Camera(Rear)+ Battery+ USB Cable(Charging from Adapter)+ SIM 1 for Sample 1
	Mode 2: LTE Band 26 Rx(Middle)+ Camera(Front)+ Battery+ USB Cable (Charging from Adapter)+ SIM 1 for Sample 1
	Mode 3: LTE Band 12 Rx(High)+ MPEG4(Run Color Bar) + Battery + USB Cable (EUT (eMMC) USB Data Link to NB)+ ESIM for Sample 1
	Mode 4: LTE Band 13 Rx(Low)+ NFC On+GNSS Rx + Battery + USB Cable (NB USB Data Link to EUT(eMMC))+ESIM for Sample 1
Radiated Emissions	Mode 1: GSM 850 Rx(Middle)+ Camera(Rear)+ Battery+ USB Cable(Charging from Adapter)+ SIM 1 for Sample 1
	Mode 2: LTE Band 26 Rx(Middle)+ Camera(Front)+Earphone+ Battery+ USB Cable (Charging from Adapter)+ SIM 1 for Sample 1
	Mode 3: LTE Band 12 Rx(High)+ MPEG4(Run Color Bar) + Battery + USB Cable (EUT (eMMC) USB Data Link to NB)+ SIM 1 for Sample 1
	Mode 4: LTE Band 13 Rx(Low)+ NFC On+GNSS Rx + Battery + USB Cable (NB USB Data Link to EUT(eMMC))+ESIM for Sample 1
	Mode 5: LTE Band 17 Rx(Middle) H-Pattern + Battery + USB Cable(Typec to Typec)(EUT Charging to other phones) +ESIM for Sample 1
	Mode 6: LTE Band 12 Rx(High)+ MPEG4(Run Color Bar) + Battery + USB Cable (EUT (eMMC) USB Data Link to NB)+ ESIM for Sample 2

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 6; 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 GSM 850/LTE Band 12/13/17/26, the worst channel was recorded in this report.

2.2. Connection Diagram of Test System



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

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
3.	Base Station(5G)	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
4.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded,1.8m
5.	Notebook	DELL	Inspiron 15-7570	Fcc DoC	N/A	shielded cable DC O/P 1.8m Unshielded AC I/P cable 1.8m
6.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
7.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m with Core
8.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
9.	Phone	BOSSINI	HDC133TSDL	Fcc DoC	N/A	N/A
10.	Iopd	apple	MC69029/A	N/A	N/A	N/A
11.	IPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A
12.	USB cable	Motorola	SKN6378A	Fcc DoC	N/A	Unshielded,1m
13.	Earphone	MI	M203	N/A	N/A	N/A



2.4. EUT Operation Test Setup

The EUT was in GSM/ 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 WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Turn on camera to capture images.
2. Turn on MPEG4 function.
3. Execute "H Pattern" to show H Pattern via USB Cable on the Notebook.
4. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
5. Turn on NFC function.
6. Charging to the other phone via USB Type-C cable.

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.

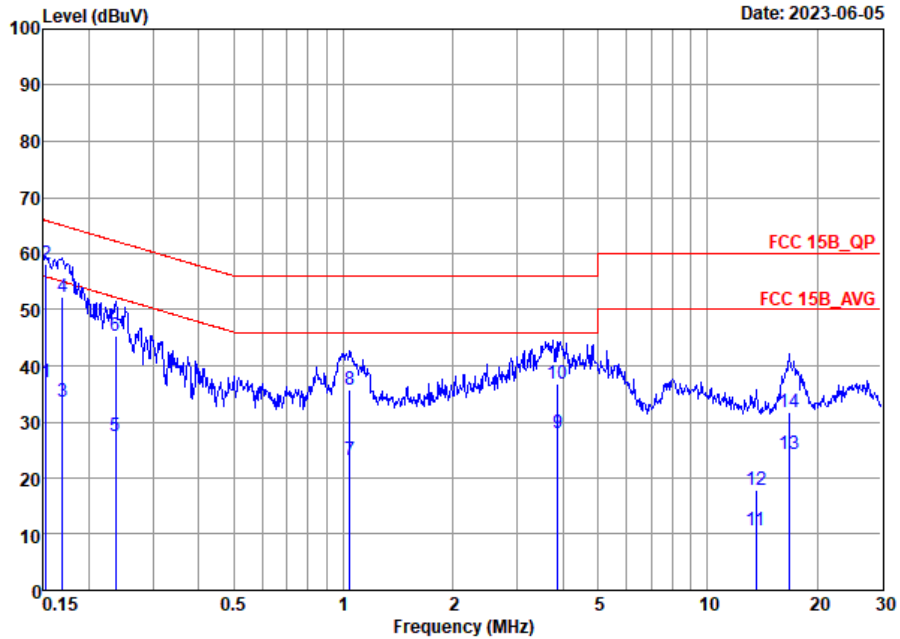
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

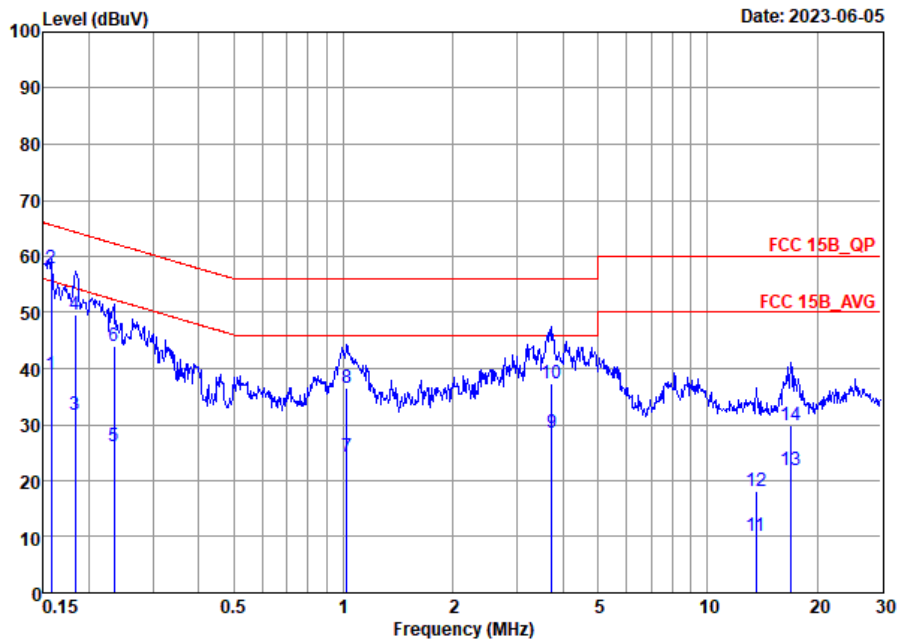


Site : CO01-SZ
 Condition: FCC 15B_QP LISN_20230420_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	37.01	-18.86	55.87	16.41	10.47	10.13	Average
2 *	0.15	58.01	-7.86	65.87	37.41	10.47	10.13	QP
3	0.17	33.52	-21.47	54.99	12.90	10.48	10.14	Average
4	0.17	52.32	-12.67	64.99	31.70	10.48	10.14	QP
5	0.24	27.44	-24.78	52.22	6.90	10.39	10.15	Average
6	0.24	45.24	-16.98	62.22	24.70	10.39	10.15	QP
7	1.04	23.30	-22.70	46.00	2.90	10.24	10.16	Average
8	1.04	35.60	-20.40	56.00	15.20	10.24	10.16	QP
9	3.88	28.09	-17.91	46.00	7.70	10.07	10.32	Average
10	3.88	36.79	-19.21	56.00	16.40	10.07	10.32	QP
11	13.56	10.54	-39.46	50.00	-9.80	9.88	10.46	Average
12	13.56	17.94	-42.06	60.00	-2.40	9.88	10.46	QP
13	16.75	24.21	-25.79	50.00	3.80	9.89	10.52	Average
14	16.75	31.81	-28.19	60.00	11.40	9.89	10.52	QP



Test Engineer :	Lily Qiu	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15B_QP LISN_20230420_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.16	38.98	-16.62	55.60	18.39	10.45	10.14	Average
2 *	0.16	57.78	-7.82	65.60	37.19	10.45	10.14	QP
3	0.18	31.64	-22.69	54.33	11.10	10.39	10.15	Average
4	0.18	49.64	-14.69	64.33	29.10	10.39	10.15	QP
5	0.23	26.18	-26.12	52.30	5.70	10.33	10.15	Average
6	0.23	43.98	-18.32	62.30	23.50	10.33	10.15	QP
7	1.02	24.21	-21.79	46.00	3.80	10.25	10.16	Average
8	1.02	36.41	-19.59	56.00	16.00	10.25	10.16	QP
9	3.74	28.66	-17.34	46.00	8.20	10.15	10.31	Average
10	3.74	37.46	-18.54	56.00	17.00	10.15	10.31	QP
11	13.56	10.17	-39.83	50.00	-10.20	9.91	10.46	Average
12	13.56	18.07	-41.93	60.00	-2.30	9.91	10.46	QP
13	16.93	21.84	-28.16	50.00	1.49	9.83	10.52	Average
14	16.93	29.74	-30.26	60.00	9.39	9.83	10.52	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



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.

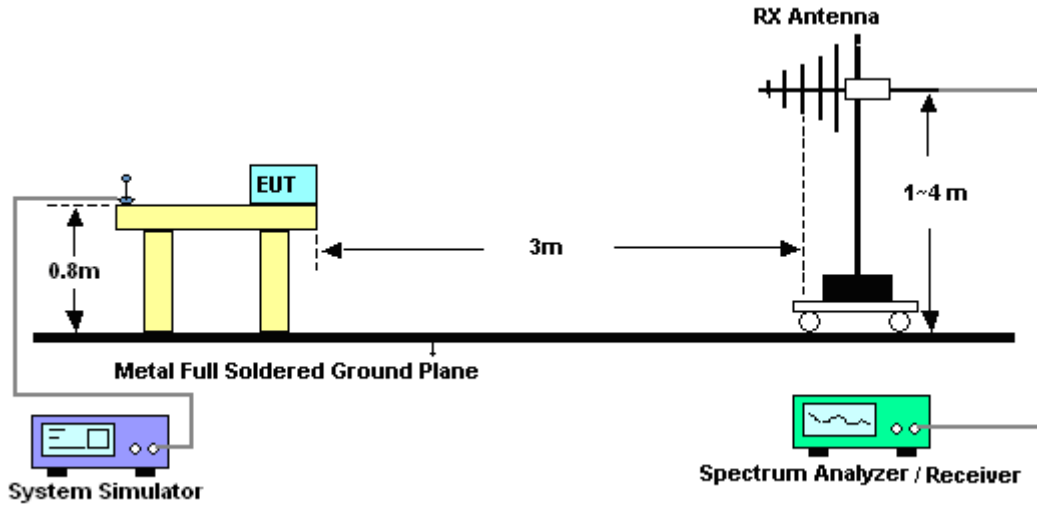


3.2.3. Test Procedures

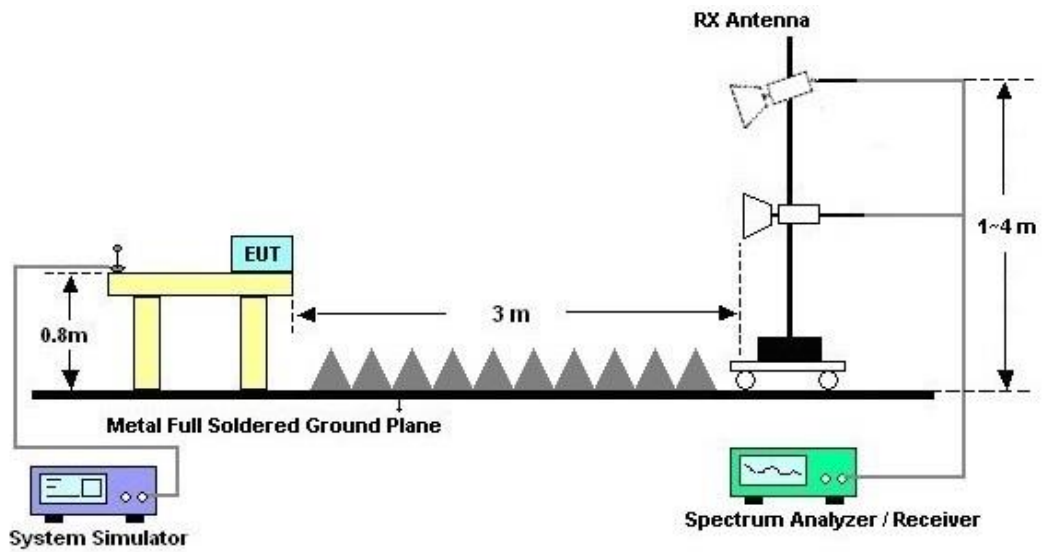
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



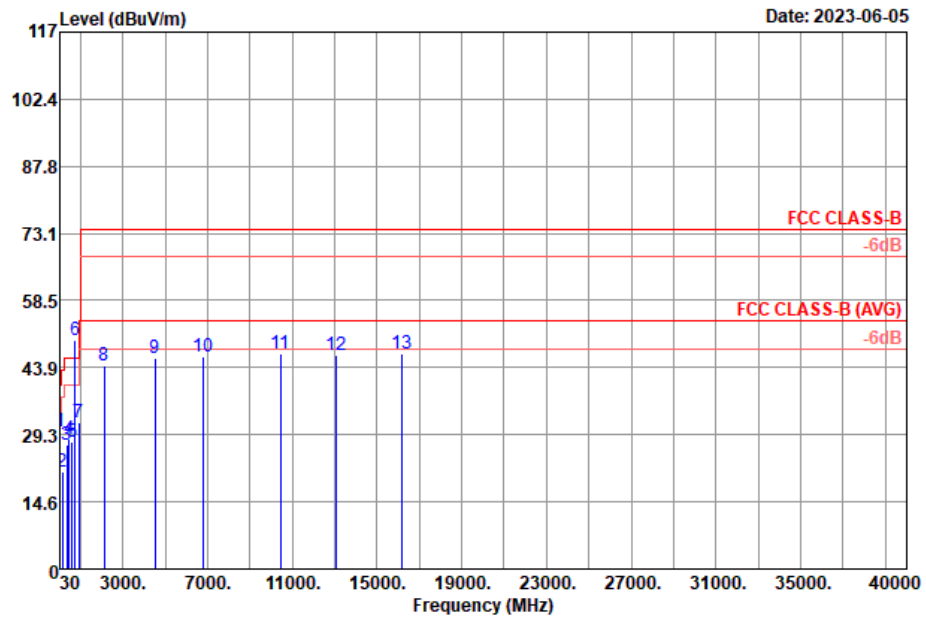
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Zhicheng Li	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

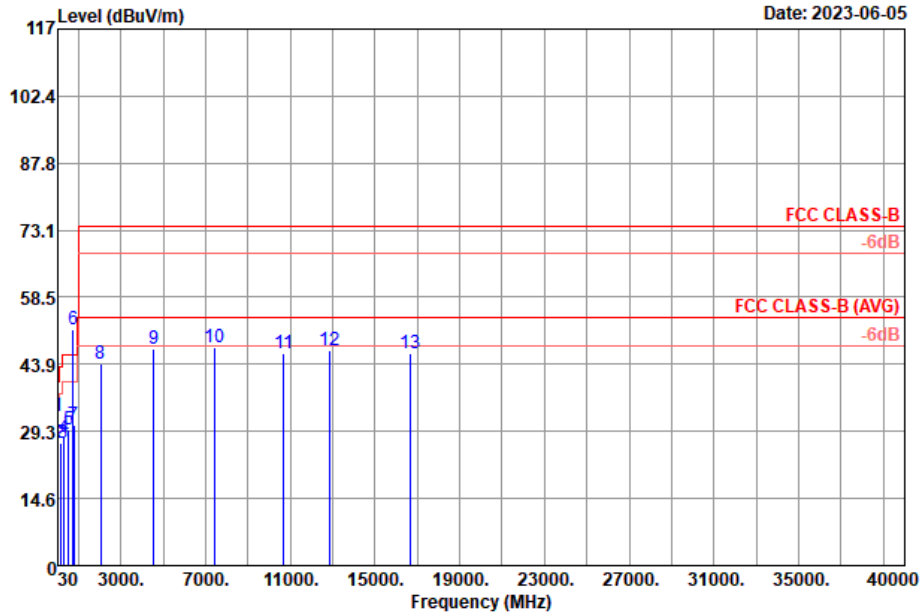


Site : 03CH05-SZ
 Condition : FCC CLASS-B 3m VULB9168-01003 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	64.92	29.85	-10.15	40.00	44.94	17.95	1.81	34.85	---	---	Peak
2	165.80	21.07	-22.43	43.50	35.32	18.04	2.41	34.70	---	---	Peak
3	369.50	27.10	-18.90	46.00	37.58	20.69	3.39	34.56	---	---	Peak
4	481.05	28.51	-17.49	46.00	36.47	23.13	3.41	34.50	---	---	Peak
5	607.15	27.63	-18.37	46.00	32.51	26.11	3.60	34.59	---	---	Peak
6 *	741.01	49.77			52.94	27.50	3.73	34.40	---	---	Peak
7	933.07	31.86	-14.14	46.00	32.30	29.38	4.48	34.30	---	---	Peak
8	2140.00	44.21	-29.79	74.00	56.05	31.58	6.86	50.28	---	---	Peak
9	4524.00	45.97	-28.03	74.00	52.32	33.85	9.40	49.60	---	---	Peak
10	6813.00	46.29	-27.71	74.00	49.27	35.66	11.07	49.71	---	---	Peak
11	10449.00	46.96	-27.04	74.00	44.52	37.46	13.45	48.47	---	---	Peak
12	13077.00	46.52	-27.48	74.00	39.85	39.15	14.18	46.66	---	---	Peak
13	16161.00	46.89	-27.11	74.00	42.11	40.76	15.52	51.50	---	---	Peak



Test Engineer :	Zhicheng Li	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH05-SZ
 Condition : FCC CLASS-B 3m VULB9168-01003 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	64.92	32.62	-7.38	40.00	47.71	17.95	1.81	34.85	---	---	Peak
2	166.77	26.59	-16.91	43.50	40.89	17.98	2.42	34.70	---	---	Peak
3	286.08	26.62	-19.38	46.00	39.40	18.69	3.16	34.63	---	---	Peak
4	337.49	27.93	-18.07	46.00	39.21	19.94	3.38	34.60	---	---	Peak
5	550.89	29.69	-16.31	46.00	36.46	24.23	3.50	34.50	---	---	Peak
6 *	741.01	51.37			54.54	27.50	3.73	34.40	---	---	Peak
7	775.93	30.77	-15.23	46.00	33.33	27.72	4.07	34.35	---	---	Peak
8	2056.00	44.13	-29.87	74.00	56.11	31.32	6.93	50.23	---	---	Peak
9	4542.00	47.42	-26.58	74.00	53.80	33.88	9.33	49.59	---	---	Peak
10	7419.00	47.52	-26.48	74.00	51.20	35.78	10.99	50.45	---	---	Peak
11	10686.00	46.35	-27.65	74.00	43.59	37.61	13.40	48.25	---	---	Peak
12	12885.00	46.83	-27.17	74.00	40.29	39.13	14.10	46.69	---	---	Peak
13	16665.00	46.21	-27.79	74.00	40.91	41.56	15.34	51.60	---	---	Peak

Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	Jun. 05, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	Jun. 05, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	Jun. 05, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2022	Jun. 05, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
Thermo meter	Anymetre	JR593	#5	- 10°C ~ 50°C 10%RH~99%RH	Apr. 08, 2023	Jun. 05, 2023	Apr. 07, 2024	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 04, 2023	Jun. 05, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 04, 2023	Jun. 05, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jun. 28, 2022	Jun. 05, 2023	Jun. 27, 2023	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 04, 2023	Jun. 05, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-2206	1GHz~18GHz	Apr. 04, 2023	Jun. 05, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060781	1GHz~18GHz	Apr. 04, 2023	Jun. 05, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 04, 2023	Jun. 05, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	00983	15GHz~40GHz	Apr. 08, 2023	Jun. 05, 2023	Apr. 07, 2024	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Nov. 10, 2022	Jun. 05, 2023	Nov. 09, 2023	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Jun. 05, 2023	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Jun. 05, 2023	NCR	Radiation (03CH05-SZ)

NCR: No Calibration Required



5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.1 dB
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