



# FCC Test Report

APPLICANT : Xiaomi Communications Co., Ltd.  
EQUIPMENT : Mobile Phone  
BRAND NAME : POCO  
MODEL NAME : 23049PCD8G  
FCC ID : 2AFZZPCD8G  
STANDARD : 47 CFR Part 15 Subpart B  
CLASSIFICATION : Certification  
TEST DATE(S) : Jan. 17, 2023

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

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of 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 ..... 8

    1.7. Test Software ..... 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 ..... 11

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

    2.4. EUT Operation Test Setup ..... 12

**3. TEST RESULT ..... 13**

    3.1. Test of AC Conducted Emission Measurement ..... 13

    3.2. Test of Radiated Emission Measurement ..... 17

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

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

**APPENDIX A. SETUP PHOTOGRAPHS**





### 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 6.84 dB at 0.156 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 9.56 dB at 801.15 MHz

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 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	POCO
Model Name	23049PCD8G
FCC ID	2AFZZPCD8G
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 Bluetooth BR/EDR/LE, GNSS, NFC
IMEI Code	Conduction: 860460060032922/860460060032930 for Sample1 860460060045106/860460060045114 for Sample2 860460060043549/860460060043556 for Sample3 Radiation: 860460060033847/860460060033854 for Sample1 860460060043648/860460060043655 for Sample2 860460060046120/860460060046138 for Sample3
HW Version	P2
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. There are three types of EUT. The sample 1 is 8+128GB capacity with battery1, the sample 2 is 12+256GB capacity with battery1 and the sample 3 is 8+256GB capacity with battery2. According to the difference, we choose sample 1 to full test and the sample 2/3 are verified the difference.





<b>Antenna Type</b>	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna NFC: Coil Antenna
<b>Type of Modulation</b>	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSDPA/DC-HSDPA : QPSK HSUPA : QPSK HSPA+ : 16QAM DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 256QAM 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 / 4096QAM) 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. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS 03CH02-KS	CN1257	314309

### 1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
2.	CO01-KS	AUDIX	E3	6.2009-8-24

### 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.

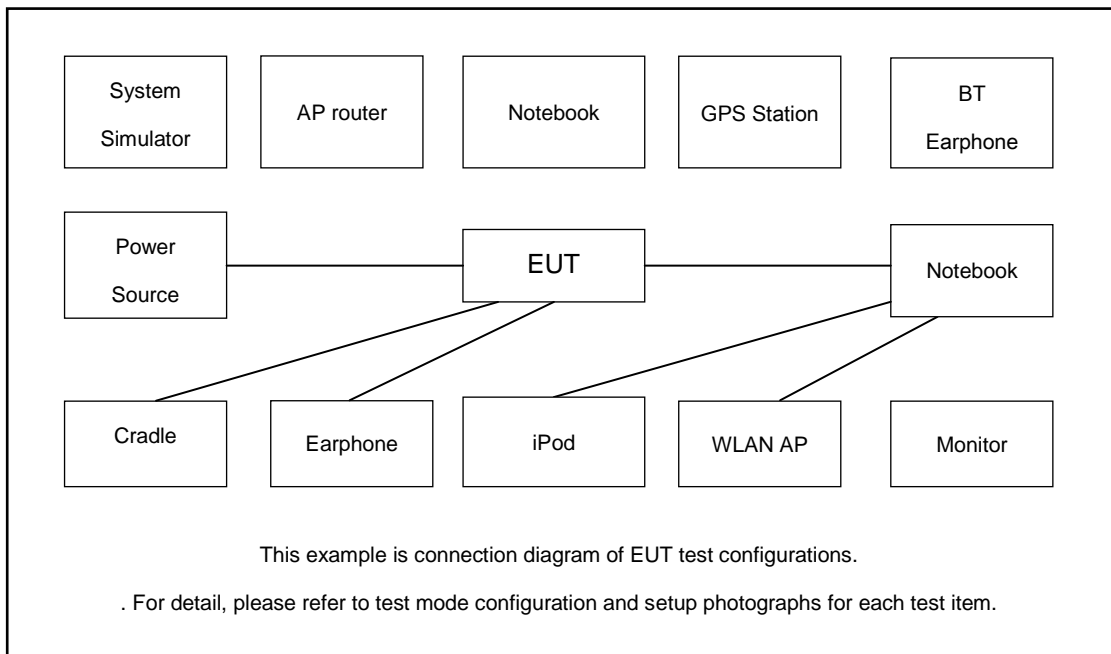
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + USB Cable 1(Charging from Adapter ) + SIM 1 for Sample 1
	Mode 2: LTE Band 5 Rx(Middle) Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable 2((Charging from Adapter ) + SIM 2 for Sample 1
	Mode 3: n5 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + USB Cable 1(EUT (eMMC) USB Data Link to NB) + SIM 1 for Sample 1
	Mode 4: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (5G) Idle + NFC On+GNSS Rx + Earphone + USB Cable 1(NB USB Data Link to EUT (eMMC)) + SIM 1 for Sample 1
	Mode 5: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + USB Cable 2(EUT (eMMC) USB Data Link to NB)+ SIM 1 for Sample 1
	Mode 6: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + USB Cable 2(EUT (eMMC) USB Data Link to NB) + SIM 1 for Sample 2
	Mode 7: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + USB Cable 2(EUT (eMMC) USB Data Link to NB) + SIM 1 for Sample 3
	Mode 8: GSM 850 Rx(Middle) Bluetooth Idle+ WLAN (2.4G) Idle+ Camera(Rear)+ Earphone + USB Cable 1(Charging from Adapter)+ SIM 1 for Sample 3



Radiated Emissions	<p>Mode 1: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + USB Cable 1(Charging from Adapter ) + SIM 1 for Sample 1</p> <p>Mode 2: LTE Band 5 Rx(Middle) Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable 2((Charging from Adapter ) + SIM 1 for Sample 1</p> <p>Mode 3: n5 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + USB Cable 1(EUT (eMMC) USB Data Link to NB) + SIM 1 for Sample 1</p> <p>Mode 4: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (5G) Idle + NFC On+GNSS Rx + Earphone + USB Cable 1(NB USB Data Link to EUT (eMMC)) + SIM 1 for Sample 1</p> <p>Mode 5: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + USB Cable 2 (Data Link with NB)+USB Cable 1(NB USB Data Link to EUT (eMMC)) + SIM 1 for Sample 1</p> <p>Mode 6: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (5G) Idle + NFC On+GNSS Rx + Earphone + USB Cable 1(Data Link with NB) + USB Cable 1(NB USB Data Link to EUT (eMMC))+ SIM 1 for Sample 2</p> <p>Mode 7: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (5G) Idle + NFC On+GNSS Rx + Earphone + USB Cable 1(Data Link with NB) + USB Cable 1(NB USB Data Link to EUT (eMMC))+ SIM 1 for Sample 3</p> <p>Mode 8: GSM 850 Rx(Middle) Bluetooth Idle + WLAN (5G) Idle + NFC On+GNSS Rx + Earphone + USB Cable(Typec to Typec)(EUT Charging to other phones) + SIM 1 for Sample 1</p>
<p><b>Remark:</b></p> <ol style="list-style-type: none"> <li>1. The worst case of AC is mode 8; only the test data of this mode is reported.</li> <li>2. The worst case of RE is mode 4; only the test data of this mode is reported.</li> <li>3. Data Link with Notebook means data application transferred mode between EUT and Notebook.</li> <li>4. Pre-scanned Low/Middle/High channel for GSM 850/LTE Band 5/n5 , the worst channel was recorded in this report.</li> </ol>	

## 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.	System Simulator	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	System Simulator	Anritus	MT8820C	N/A	N/A	Unshielded,1.8m
3.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded,1.8m
6.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
7.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
8.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
9.	SD Card	Kingston	8GB	N/A	N/A	N/A
10.	SD Card	Kingston	Ultra	N/A	N/A	N/A
11.	Earphone	MI	EM023	N/A	Un-Shielded, 1.0m	N/A
12.	Dual Type-C cable	MI	NA	N/A	Shielded, 1.2m	N/A



## **2.4. EUT Operation Test Setup**

The EUT was in GSM or LTE or 5G NR 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 camera to capture images.
3. Turn on MPEG4 function.
4. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
5. Turn on NFC function.

### 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.

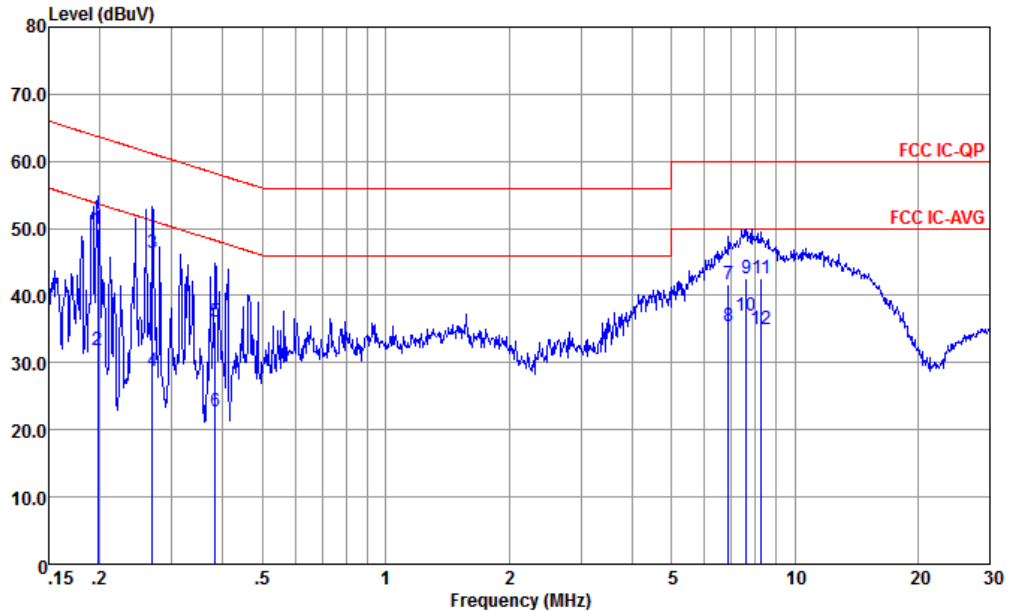
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

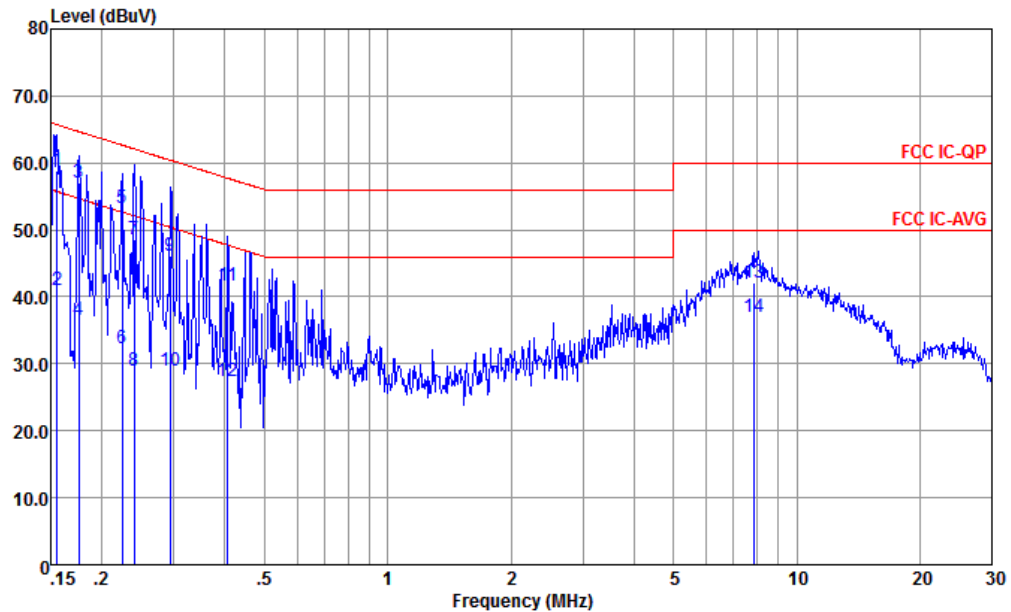


Site : CO01-KS  
 Condition : FCC IC-QP LISN-060103-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.198	49.94	-13.77	63.71	39.20	0.32	10.42	QP
2	0.198	31.94	-21.77	53.71	21.20	0.32	10.42	Average
3	0.269	46.45	-14.71	61.16	35.80	0.28	10.37	QP
4	0.269	28.85	-22.31	51.16	18.20	0.28	10.37	Average
5	0.383	36.09	-22.12	58.21	25.50	0.28	10.31	QP
6	0.383	22.79	-25.42	48.21	12.20	0.28	10.31	Average
7	6.878	41.77	-18.23	60.00	31.20	0.34	10.23	QP
8	6.878	35.47	-14.53	50.00	24.90	0.34	10.23	Average
9	7.606	42.49	-17.51	60.00	31.80	0.35	10.34	QP
10 *	7.606	36.89	-13.11	50.00	26.20	0.35	10.34	Average
11	8.279	42.59	-17.41	60.00	31.79	0.36	10.44	QP
12	8.279	34.99	-15.01	50.00	24.19	0.36	10.44	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : FCC IC-QP LISN-060103-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.156	58.85	-6.84	65.69	48.10	0.32	10.43	QP
2	0.156	40.95	-14.74	55.69	30.20	0.32	10.43	Average
3	0.176	56.94	-7.74	64.68	46.21	0.31	10.42	QP
4	0.176	36.64	-18.04	54.68	25.91	0.31	10.42	Average
5	0.224	53.32	-9.34	62.66	42.60	0.32	10.40	QP
6	0.224	32.32	-20.34	52.66	21.60	0.32	10.40	Average
7	0.240	48.52	-13.56	62.08	37.80	0.33	10.39	QP
8	0.240	28.92	-23.16	52.08	18.20	0.33	10.39	Average
9	0.294	46.20	-14.21	60.41	35.50	0.35	10.35	QP
10	0.294	28.90	-21.51	50.41	18.20	0.35	10.35	Average
11	0.406	41.77	-15.96	57.73	31.20	0.28	10.29	QP
12	0.406	27.37	-20.36	47.73	16.80	0.28	10.29	Average
13	7.852	42.20	-17.80	60.00	31.50	0.32	10.38	QP
14	7.852	36.90	-13.10	50.00	26.20	0.32	10.38	Average

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.

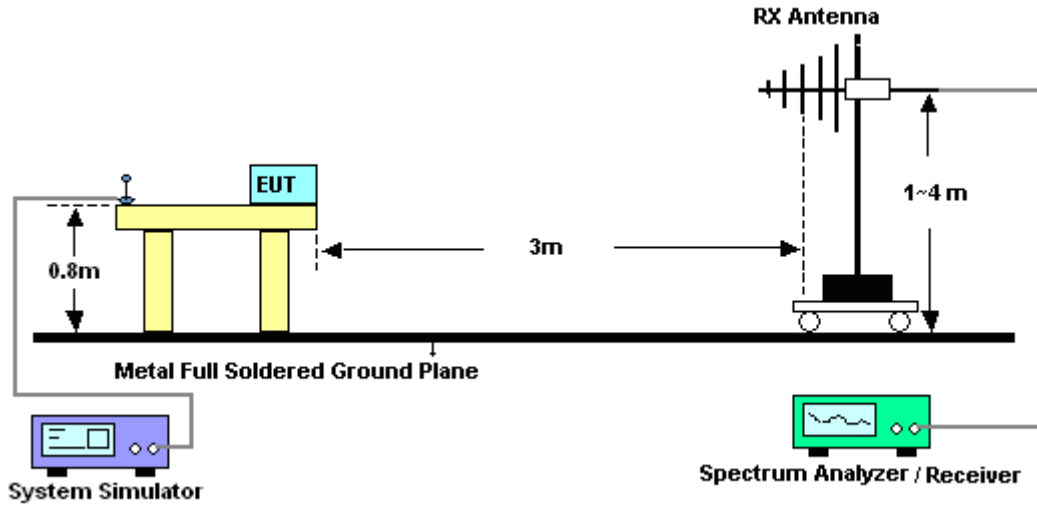


### **3.2.3. Test Procedures**

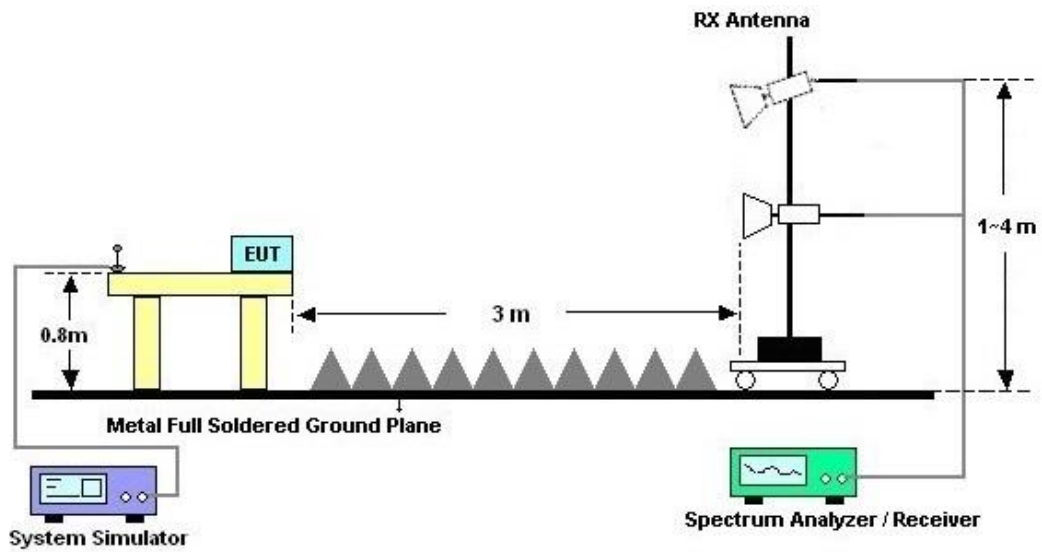
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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



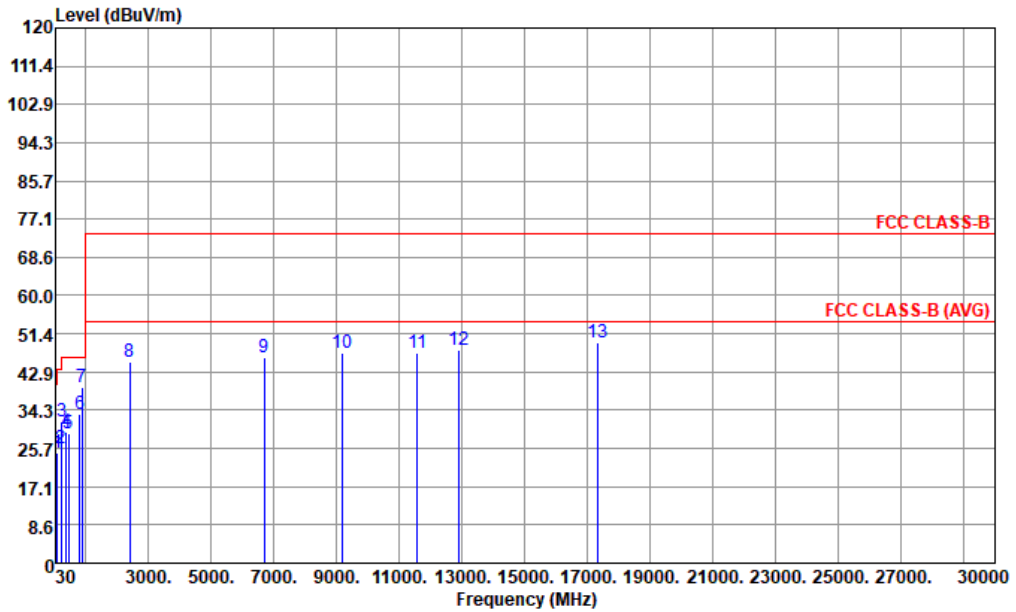
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Peng Wang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		

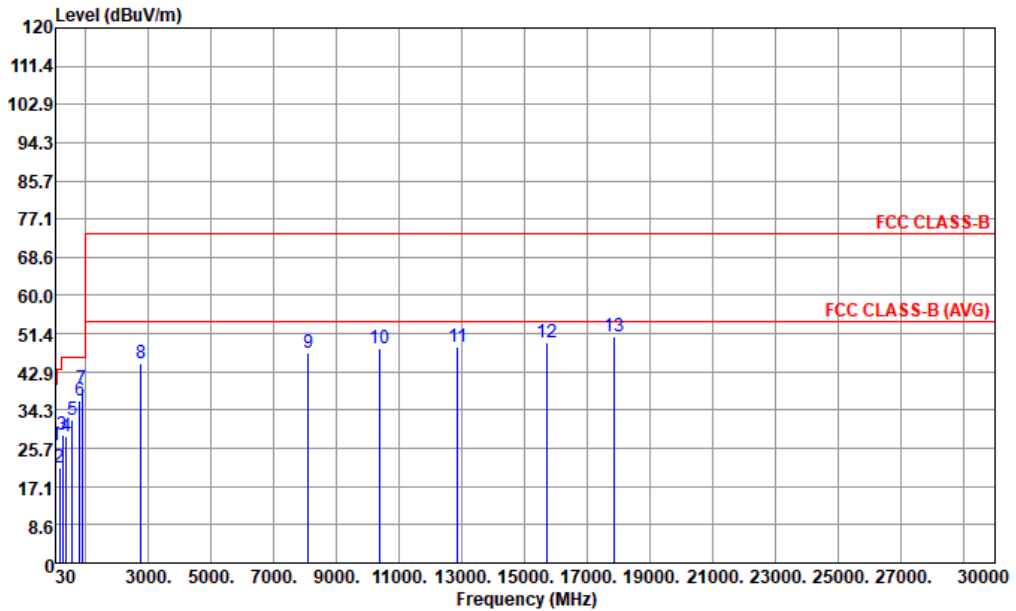


Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m LF 49921 HORIZONTAL

	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	86.26	24.60	-15.40	40.00	41.34	14.33	1.33	32.40	---	---	Peak
2	211.39	25.85	-17.65	43.50	40.95	15.21	2.09	32.40	---	---	Peak
3	239.52	31.84	-14.16	46.00	44.82	17.33	2.09	32.40	---	---	Peak
4	370.47	29.42	-16.58	46.00	37.84	21.13	2.85	32.40	---	---	Peak
5	437.40	29.24	-16.76	46.00	35.86	22.68	3.10	32.40	---	---	Peak
6	801.15	33.54	-12.46	46.00	33.21	28.21	4.22	32.10	---	---	Peak
7	880.69	39.32			37.65	28.92	4.40	31.65	---	---	Peak
8	2411.00	45.22	-28.78	74.00	41.13	31.33	7.44	34.68	---	---	Peak
9	6695.00	46.08	-27.92	74.00	31.12	34.90	12.74	32.68	---	---	Peak
10	9177.00	47.06	-26.94	74.00	29.92	36.02	15.30	34.18	---	---	Peak
11	11574.00	47.19	-26.81	74.00	25.99	39.37	17.18	35.35	---	---	Peak
12	12917.00	47.72	-26.28	74.00	25.57	39.62	18.11	35.58	---	---	Peak
13	17337.00	49.38	-24.62	74.00	22.11	41.27	21.14	35.14	---	---	Peak



Test Engineer :	Peng Wang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m LF 49921 VERTICAL

	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	cm	deg	
1	43.58	26.40	-13.60	40.00	40.35	17.52	0.93	32.40	---	Peak
2	156.10	21.34	-22.16	43.50	35.19	16.72	1.83	32.40	---	Peak
3	255.04	28.85	-17.15	46.00	40.00	19.11	2.14	32.40	---	Peak
4	379.20	28.41	-17.59	46.00	36.56	21.35	2.90	32.40	---	Peak
5	557.68	31.96	-14.04	46.00	35.83	25.27	3.26	32.40	---	Peak
6	801.15	36.44	-9.56	46.00	36.11	28.21	4.22	32.10	---	Peak
7	880.69	39.26			37.59	28.92	4.40	31.65	---	Peak
8	2751.00	44.87	-29.13	74.00	39.18	31.91	7.96	34.18	---	Peak
9	8106.00	47.12	-26.88	74.00	32.39	35.40	13.93	34.60	---	Peak
10	10367.00	48.04	-25.96	74.00	28.52	38.47	16.20	35.15	---	Peak
11	12866.00	48.42	-25.58	74.00	26.28	39.63	18.08	35.57	---	Peak
12	15722.00	49.35	-24.65	74.00	23.71	40.72	20.10	35.18	---	Peak
13	17847.00	50.86	-23.14	74.00	23.60	41.37	21.30	35.41	---	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	ESC17	100768	9kHz~7GHz;	May 24, 2022	Jan. 17, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Jan. 17, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Jan. 17, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Jan. 17, 2023	Oct. 11, 2023	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 12, 2022	Jan. 17, 2023	Oct. 11, 2023	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 12, 2022	Jan. 17, 2023	Oct. 11, 2023	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 22, 2021	Jan. 17, 2023	Dec. 21, 2022	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 07, 2022	Jan. 17, 2023	Nov. 06, 2023	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 04, 2023	Jan. 17, 2023	Jan. 05, 2024	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 04, 2023	Jan. 17, 2023	Jan. 05, 2024	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413741	9KHz-1GHz	Jan. 04, 2023	Jan. 17, 2023	Jan. 05, 2024	Radiation (03CH02-KS)
Amplifier	EM	EM01G18G	060806	1GHz~18GHz	Oct. 12, 2022	Jan. 17, 2023	Oct. 11, 2023	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jan. 17, 2023	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jan. 17, 2023	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jan. 17, 2023	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% ( $U = 2Uc(y)$ )	2.78dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.0dB
---	-------

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.1dB
---	-------