



FCC Test Report

APPLICANT : vivo Mobile Communication Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : vivo
MODEL NAME : V2124
FCC ID : 2AUCY-V2124
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Dec. 11, 2021 ~ Jan. 16, 2022

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

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen, 518055
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 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 20

5. UNCERTAINTY OF EVALUATION 21

APPENDIX A. SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC1D1624	Rev. 01	Initial issue of report	Jan. 17, 2022



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 7.50 dB at 0.150 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 4.01 dB at 480.080 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

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan,Guangdong, China

1.2. Manufacturer

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan,Guangdong, China

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2124
FCC ID	2AUCY-V2124
EUT supports Radios application	GSM/WCDMA/LTE/NFC/5G NR WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ac VHT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE, GNSS
IMEI Code	Conduction: 862245059966802/862245059966810 for Sample 2 Radiation: 862245059980068/862245059980076 for Sample 1 862245059966844/862245059966851 for Sample 2
HW Version	MP_0.1
SW Version	PD2156BF_EX_A_3.8.5
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: Sample 1 is 8+128G capacity (SAMSUNG KM8V9001JM-B813), Sample 2 is 8+256G capacity (HYNIX H9HQ21AFAMADAR-KEM). According to the difference, sample 2 perform full test and sample 1 verify the differences for Radiation Emission test item.



1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 18 : 815 MHz ~ 830 MHz LTE Band 19 : 830 MHz ~ 845 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz
Rx Frequency	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band IV : 2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 18 : 860 MHz ~ 875 MHz LTE Band 19 : 875 MHz ~ 890 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 66 : 2110 MHz~ 2180 MHz 5G NR n5 : 869 MHz ~ 894 MHz 5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz;



	5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz GNSS : 1559 MHz ~ 1610 MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna NFC: Loop Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 2256QAM(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/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 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 (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
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 (Shenzhen) Inc.		
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.
	03CH04-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-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

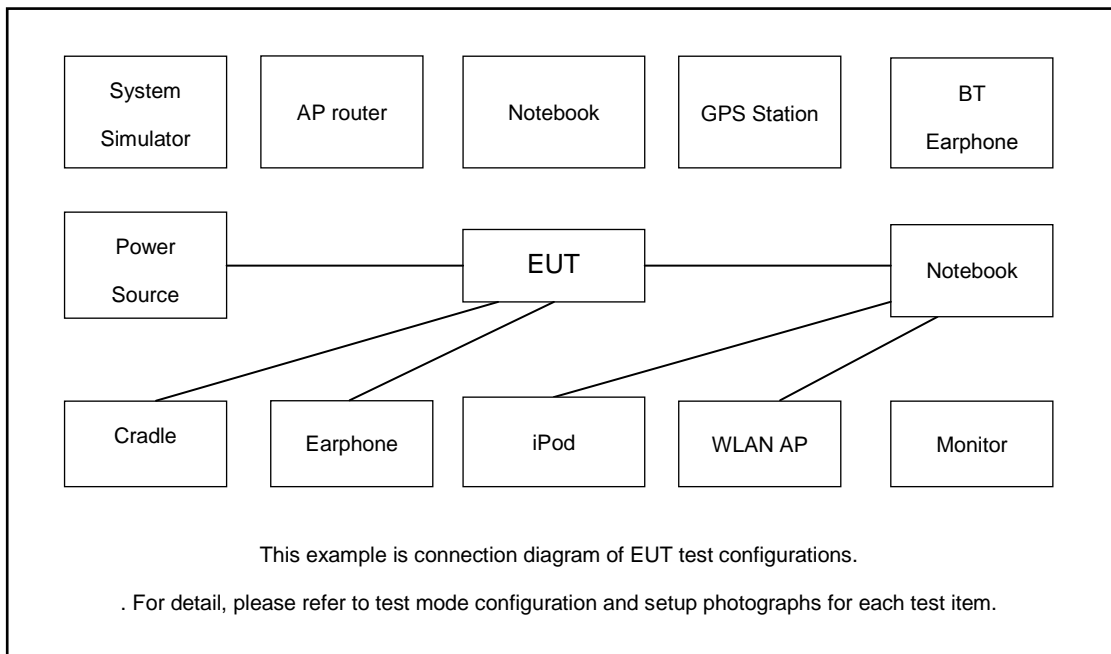
2.1. Test Mode

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 Idle(Middle CH) + USB Cable(Charging from Adapter) + Battery + Camera(Rear) + SD Card Load + SIM 1 for Sample 2
	Mode 2: LTE Band 12 Idle(Low CH) + USB Cable (Charging from Adapter) + Battery + Camera(Front) + SD Card Load + SIM 2 for Sample 2
	Mode 3: LTE Band 7 Idle(High CH) + USB Cable (Charging from Adapter) + Battery + MPEG4(Colour bar) + SD Card Link + SIM 1 for Sample 2
	Mode 4: 7A_N5A Idle(Middle CH) + USB Cable (Charging from Adapter) + Battery + MPEG4(Colour bar) + SD Card Link + SIM 2 for Sample 2
	Mode 5: N41 Idle(Middle CH) + USB Cable (Data Link with Notebook) + Battery + H-Pattern + SD Card Link + SIM 1 for Sample 2
Radiated Emissions	Mode 1: GSM 850 Idle(Middle CH) + USB Cable(Charging from Adapter) + Battery + Camera(Rear) + SD Card Load + SIM 1 for Sample 2
	Mode 2: LTE Band 12 Idle(Low CH) + USB Cable (Charging from Adapter) + Battery + Camera(Front) + SD Card Load + SIM 2 for Sample 2
	Mode 3: LTE Band 7 Idle(High CH) + USB Cable (Charging from Adapter) + Battery + MPEG4(Colour bar) + SD Card Link + SIM 1 for Sample 2
	Mode 4: 7A_N5A Idle(Middle CH) + USB Cable (Charging from Adapter) + Battery + Camera(Rear) + SD Card Load + SIM 2 for Sample 2
	Mode 5: N41 Idle(Middle CH) + USB Cable (Data Link with Notebook) + Battery + H-Pattern + SD Card Link + SIM 1 for Sample 2
	Mode 6: N41 Idle(Middle CH) + USB Cable (Data Link with Notebook) + Battery + H-Pattern + SD Card Link + SIM 1 for Sample 1
Remark: <ol style="list-style-type: none"> The worst case of AC is mode 5; only the test data of this mode is reported. The worst case of RE is mode 5; only the test data of this mode is reported. Data Link with Notebook means data application transferred mode between EUT and Notebook. Pre-scanned Low/Middle/High channel for GSM 850/LTE Band 7/12, 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(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Base Station(5G)	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
3.	GNSS Station	T&E	GS-50	N/A	N/A	Unshielded,1.8m
4.	WLAN AP	D-link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
5.	WLAN AP	D-link	DIR-615	N/A	N/A	Unshielded,1.8m with Core
6.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A
7.	Notebook	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	SD Card	Kingston	3300-10000-078	Fcc DoC	N/A	N/A
9.	Ipod	apple	MC69029/A	N/A	N/A	N/A



2.4. EUT Operation Test Setup

The EUT was in GSM 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 camera to capture images.
3. Turn on MPEG4 function.
4. Execute "H Pattern" to show H Pattern via USB Cable on the Notebook.

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

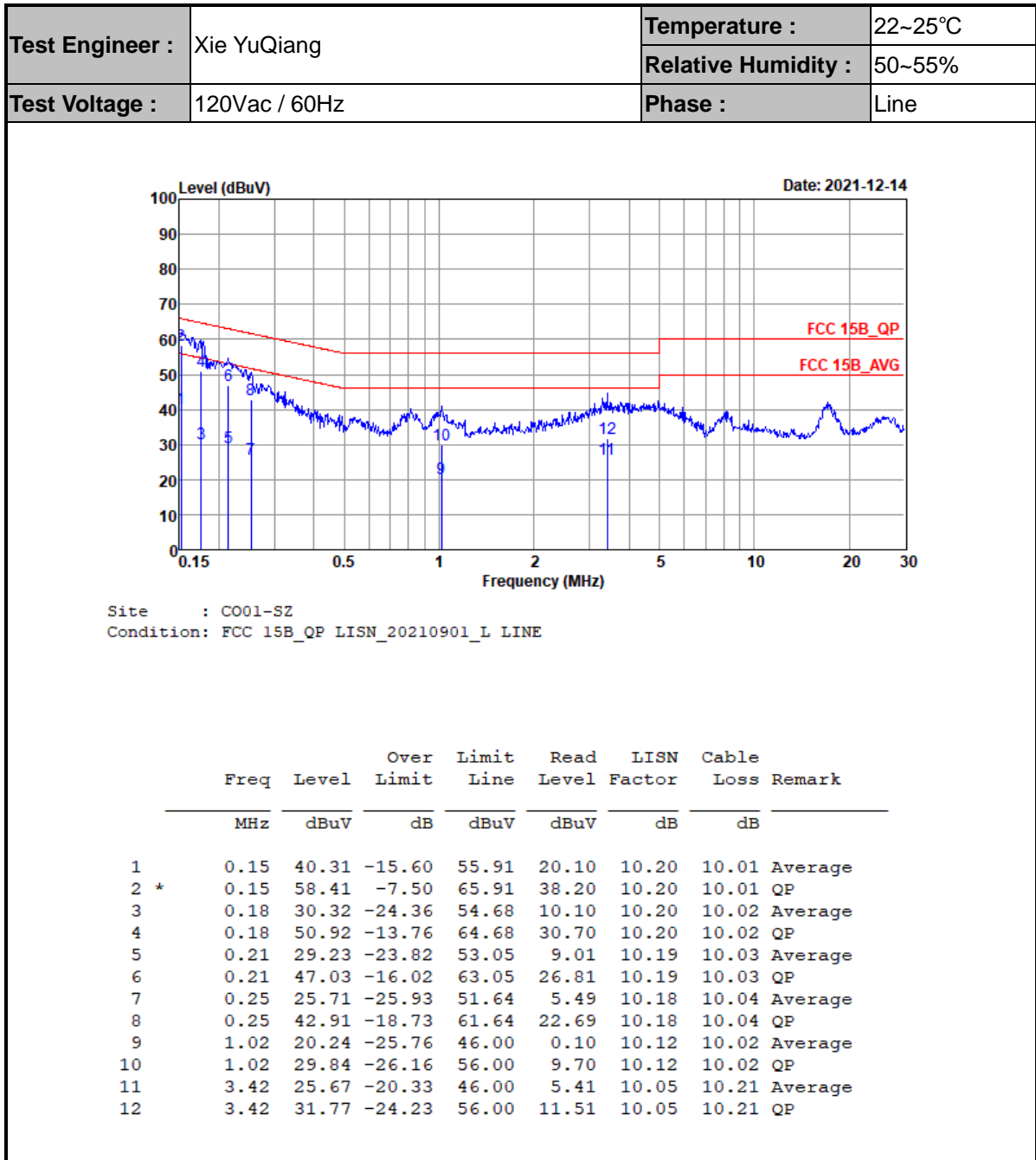
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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



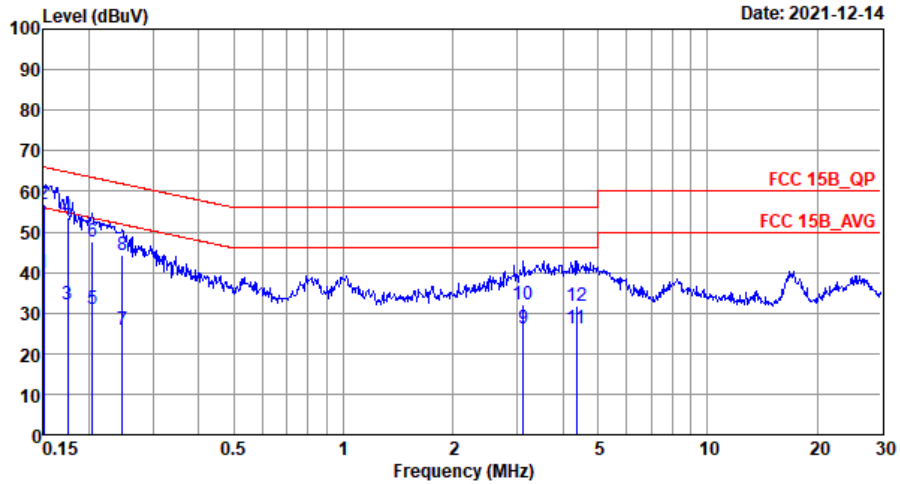


3.1.5 Test Result of AC Conducted Emission





Test Engineer :	Xie YuQiang	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Site : CO01-SZ
 Condition: FCC 15B_QP LISN_20210901_N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	39.82	-16.18	56.00	19.50	10.31	10.01	Average
2 *	0.15	56.92	-9.08	66.00	36.60	10.31	10.01	QP
3	0.17	32.13	-22.59	54.72	11.80	10.31	10.02	Average
4	0.17	53.63	-11.09	64.72	33.30	10.31	10.02	QP
5	0.20	31.11	-22.34	53.45	10.80	10.28	10.03	Average
6	0.20	47.61	-15.84	63.45	27.30	10.28	10.03	QP
7	0.25	25.89	-25.97	51.86	5.61	10.25	10.03	Average
8	0.25	44.39	-17.47	61.86	24.11	10.25	10.03	QP
9	3.12	26.13	-19.87	46.00	5.80	10.14	10.19	Average
10	3.12	32.13	-23.87	56.00	11.80	10.14	10.19	QP
11	4.36	26.21	-19.79	46.00	5.80	10.14	10.27	Average
12	4.36	31.91	-24.09	56.00	11.50	10.14	10.27	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.

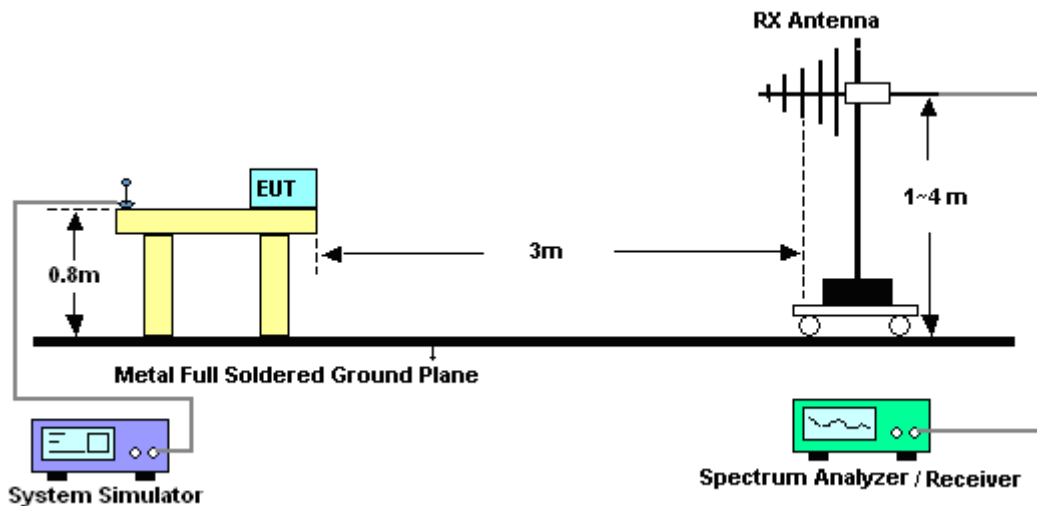
3.2.3. Test Procedures

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

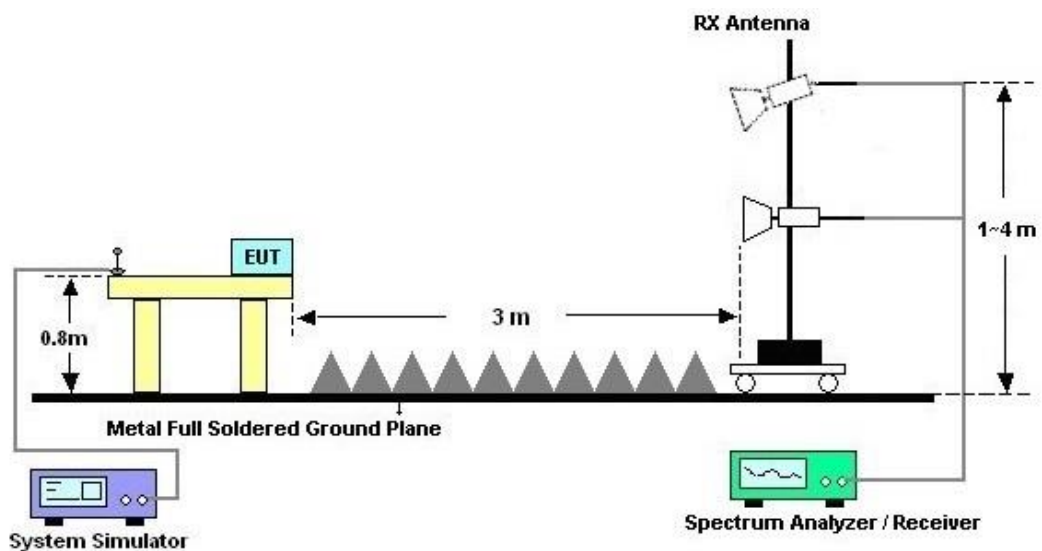
- Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



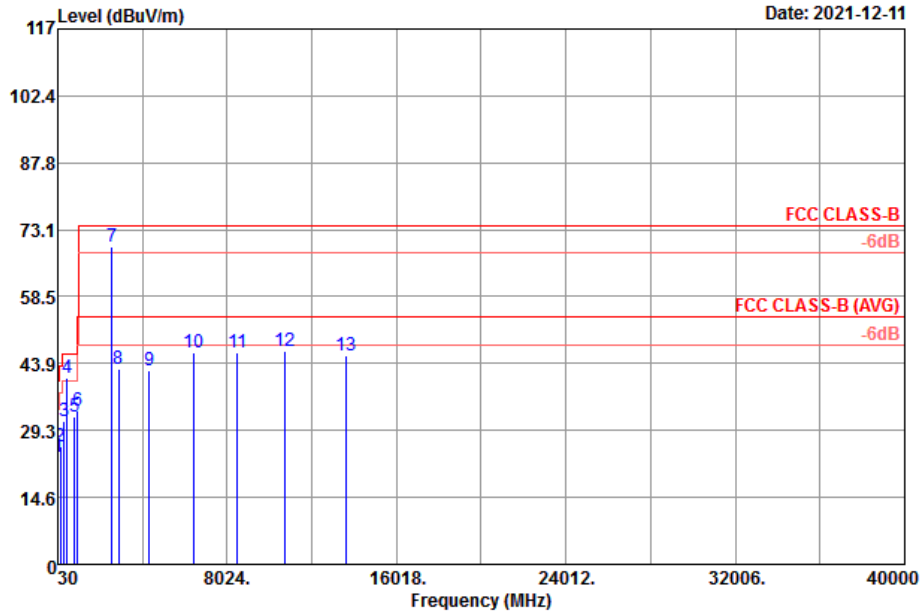
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Kuang Jia	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		

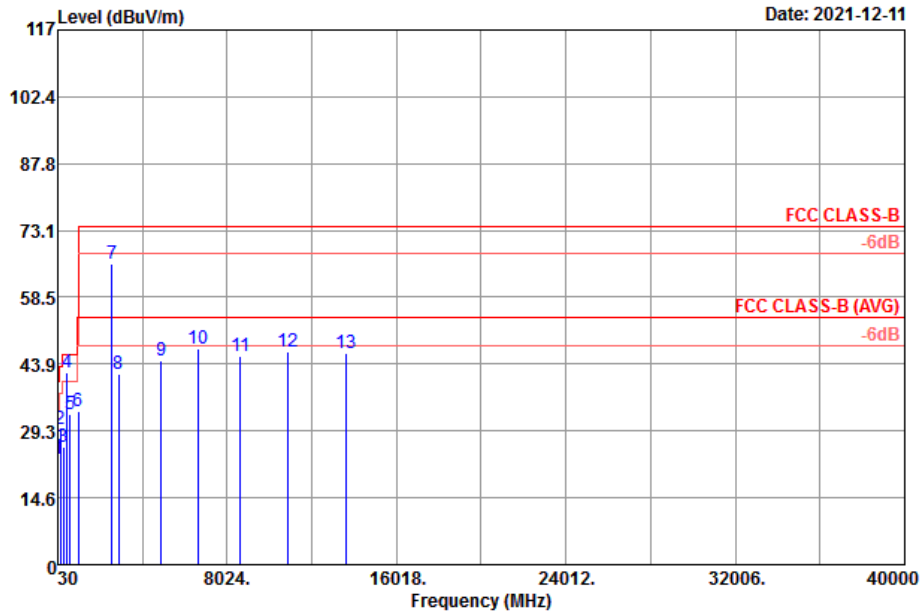


Site : 03CH04-SZ
 Condition : FCC CLASS-B 3m LF ANT 41909 20 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	30.00	23.35	-16.65	40.00	30.02	25.20	0.53	32.40	---	---	Peak
2	163.86	25.62	-17.88	43.50	40.28	16.20	1.31	32.17	---	---	Peak
3	313.24	31.33	-14.67	46.00	41.72	19.46	1.85	31.70	---	---	Peak
4	480.08	40.63	-5.37	46.00	45.99	23.60	2.28	31.24	---	---	Peak
5	838.01	32.10	-13.90	46.00	31.74	28.72	3.02	31.38	---	---	Peak
6	959.26	33.49	-12.51	46.00	30.47	31.18	3.25	31.41	---	---	Peak
7 *	2593.00	69.27			68.98	27.70	5.59	33.00	---	---	Peak
8	2898.00	42.79	-31.21	74.00	41.53	28.38	5.88	33.00	---	---	Peak
9	4344.00	42.38	-31.62	74.00	37.48	30.29	7.64	33.03	---	---	Peak
10	6476.00	46.42	-27.58	74.00	35.09	34.02	10.65	33.34	---	---	Peak
11	8496.00	46.35	-27.65	74.00	32.45	37.00	10.80	33.90	---	---	Peak
12	10760.00	46.50	-27.50	74.00	27.03	40.31	12.34	33.18	---	---	Peak
13	13607.00	45.67	-28.33	74.00	26.55	39.99	13.75	34.62	---	---	Peak



Test Engineer :	Kuang Jia	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH04-SZ
 Condition : FCC CLASS-B 3m LF_ANT_41909_20 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	30.00	23.13	-16.87	40.00	29.80	25.20	0.53	32.40	---	---	Peak
2	159.01	29.51	-13.99	43.50	43.80	16.60	1.29	32.18	---	---	Peak
3	279.29	25.90	-20.10	46.00	37.22	18.68	1.74	31.74	---	---	Peak
4 *	480.08	41.99	-4.01	46.00	47.35	23.60	2.28	31.24	---	---	Peak
5	625.58	32.96	-13.04	46.00	35.15	25.95	2.61	30.75	---	---	Peak
6	986.42	33.66	-20.34	54.00	30.78	30.74	3.29	31.15	---	---	Peak
7	2593.00	65.72			65.43	27.70	5.59	33.00	---	---	Peak
8	2910.00	41.72	-32.28	74.00	40.44	28.40	5.88	33.00	---	---	Peak
9	4924.00	44.59	-29.41	74.00	37.79	31.36	8.53	33.09	---	---	Peak
10	6670.00	47.13	-26.87	74.00	35.16	34.44	10.96	33.43	---	---	Peak
11	8644.00	45.65	-28.35	74.00	31.41	37.23	10.88	33.87	---	---	Peak
12	10876.00	46.50	-27.50	74.00	26.81	40.45	12.43	33.19	---	---	Peak
13	13616.00	46.18	-27.82	74.00	27.04	40.01	13.75	34.62	---	---	Peak

Note:

- Level(dBuV/m) = Read Level(dBuV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBuV/m) – Limit Line(dBuV/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;	Mar. 08, 2021	Dec. 14, 2021	Mar. 07, 2022	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 01, 2021	Dec. 14, 2021	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 28, 2021	Dec. 14, 2021	Oct. 27, 2022	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 14, 2021	Dec. 14, 2021	Jul. 13, 2022	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22, 2021	Dec. 11, 2021~Jan. 16, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 20, 2021	Dec. 11, 2021~Jan. 16, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22, 2021	Dec. 11, 2021~Jan. 16, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 22, 2021	Dec. 11, 2021~Jan. 16, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 15, 2021	Dec. 11, 2021~Jan. 16, 2022	Jul. 14, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Dec. 11, 2021~Jan. 16, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 20, 2021	Dec. 11, 2021~Jan. 16, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 25, 2021	Dec. 11, 2021~Jan. 16, 2022	Jul. 24, 2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Dec. 11, 2021~Jan. 16, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 11, 2021~Jan. 16, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 11, 2021~Jan. 16, 2022	NCR	Radiation (03CH04-SZ)

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% ($U = 2Uc(y)$)	2.2 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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