



EMC TEST REPORT

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	POCO
Model Name:	2410FPCC5G
FCC ID:	2AFZZPCC5G
Date of tests:	May. 11, 2024 ~ Jul. 11, 2024

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

□ FCC Part 15, Subpart B, Class A
□ FCC Part 15, Subpart B, Class B
□ ANSI C63.4:2014

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department Approved by Luke Lu Manager / Mobile Department

Simon Wang

Date: Jul. 11, 2024

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Date: Jul. 11, 2024

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or or mission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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-		DIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT 3	



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24050016EM03	Original release	Jul. 11, 2024



1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone			
BRAND NAME	POCO			
MODEL NAME	2410FPCC5G			
NOMINAL VOLTAGE	5/3.6~11Vdc(adapter of 3.84Vdc (Li-ion, batter			
	BT_LE	GFSK		
	Bluetooth	GFSK, π/4-DQPSK, 8DPSK		
	WLAN	DSSS, OFDM		
	FM	FM		
MODULATION TYPE	NFC	ASK		
	GPS/GALILEO/GLO NASS/BDS	BPSK		
	GSM/GPRS/EDGE	GMSK, 8PSK		
	WCDMA	BPSK/QPSK		
	LTE	QPSK/16QAM/64QAM		
	Bluetooth/BT_LE	2402MHz ~ 2480MHz		
	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 5180 ~ 5240MHz, 5260 ~ 5320 MHz, 5500 ~ 5700MHz, 5745 ~ 5825 MHz for 11a/ n(HT20)/ n(HT40) / ac(VHT20)/ ac(VHT40) / ac(VHT80)		
	FM	87.5MHz ~ 108MHz		
OPERATING	NFC	13.56 MHz		
FREQUENCY	GPS/GALILEO/GLO NASS/BDS	1559MHz ~ 1610MHz		
	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)		
	WCDMA	1852.4MHz ~ 1907.6MHz(FOR WCDMA Band 2) 1712.4MHz ~ 1752.6MHz(FOR WCDMA Band 4) 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)		
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4)		



		824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7) 2572.5MHz ~ 2617.5MHz (FOR LTE Band38) 2498.5MHz ~2687.5MHz (FOR LTE Band41) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66)	
HW VERSION	135100C3N		
SW VERSION	Xiaomi HyperOS 1.0		
IMEI	862996070038084		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	CABLE SUPPLIED USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable3: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable4: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable5: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable6: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable7: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable7: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable8: non-shielded cable, with w/o ferrite core, 1.0 meter		
ACCESSORY DEVICES	Refer to note as below		

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B				
Standard Section	Test Item	Result		
FCC Part 15,	Conducted Test	Compliance		
Subpart B, Class B	Radiated Emission Test (30MHz ~ 1GHz)	Compliance		
ANSI C63.4:2014	Radiated Emission Test (Above 1GHz)	Compliance		

1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY	
Conducted emissions	150kHz ~ 30MHz	±2.70dB	
	30MHz~1GHz	±4.98dB	
Dedicted emissions	1GHz ~6GHz	±4.70dB	
Radiated emissions	6GHz ~18GHz	±4.60dB	
	18GHz ~40GHz	±4.12dB	



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition				
	Radiated emission test				
1	GSM850 Idle+Adapter 1+USB cable 1+Earphone+TF Card+Front Camera On+SIM+Sample 1				
2	GSM1900 Idle+Adapter 1+USB cable 2+Earphone+TF Card+Back Camera On+SIM+Sample 1				
3	WCDMA B2 Idle+Adapter 1+USB cable 3+Earphone+TF Card+Front Camera On+SIM+Sample 1				
4	WCDMA B4 Idle+Adapter 1+USB cable 4+Earphone+TF Card+Back Camera On+SIM+Sample 1				
5	WCDMA B5 Idle+Adapter 1+USB cable 5+Earphone+TF Card+FM RX+SIM+Sample 1				
6	LTE B2 Idle+Adapter 1+USB cable 6+Earphone+TF Card+SIM+Sample 1				
7	LTE B4 Idle+Adapter 1+USB cable 7+Earphone+TF Card+SIM+Sample 1				
8	LTE B5 Idle+Adapter 1+USB cable 8+Earphone+TF Card+SIM+Sample 1				
9	LTE B7 Idle+Adapter 1+USB cable 1+Earphone+TF Card+MPG4+SIM+Sample 1				
10	NFC+Adapter 1+USB cable 2+Earphone+TF Card+Front Camera On+SIM+Sample 1				
11	Adapter 1+USB cable 3+Earphone+TF Card+Back Camera On+SIM+Sample 1				
12	LTE B66 Idle+Adapter 1+USB cable 4+Earphone+TF Card+SIM+Sample 1				
13	LTE B38 Idle+USB Link +Data Transmission+USB cable 1/2/3/4+TF Card+EUT to Notebook+Earphone+SIM+Sample 1				
14	LTE B41 Idle+USB Link +Data Transmission+USB cable 5/6/7/8+TF Card+Notebook to TF Card+Earphone+SIM+Sample 1				
15	Powered by Battery+TF Card+Reverse charging+Sample 1				
16	Worst of 1-12+Adapter 2				
17	Worst of 1-16+Sample 2				
18	Worst of 1-16 (Mode 3) +Sample 3				
19	Worst of 1-16+Sample 4				
20	Worst of 1-16+Sample 5				
21	Worst of 1-16+Sample 6				

Conducted emission test			
1	GSM850 Idle+Adapter 1+USB cable 1+Earphone+TF Card+Front Camera On+SIM+Sample 1		
2	GSM1900 Idle+Adapter 1+USB cable 2+Earphone+TF Card+Back Camera On+SIM+Sample 1		
3	WCDMA B2 Idle+Adapter 1+USB cable 3+Earphone+TF Card+Front Camera On+SIM+Sample 1		
4	WCDMA B4 Idle+Adapter 1+USB cable 4+Earphone+TF Card+Back Camera On+SIM+Sample 1		
5	WCDMA B5 Idle+Adapter 1+USB cable 5+Earphone+TF Card+FM RX+SIM+Sample 1		
6	LTE B2 Idle+Adapter 1+USB cable 6+Earphone+TF Card+SIM+Sample 1		



7	LTE B4 Idle+Adapter 1+USB cable 7+Earphone+TF Card+SIM+Sample 1
8	LTE B5 Idle+Adapter 1+USB cable 8+Earphone+TF Card+SIM+Sample 1
9	LTE B7 Idle+Adapter 1+USB cable 1+Earphone+TF Card+MPG4+SIM+Sample 1
10	NFC+Adapter 1+USB cable 2+Earphone+TF Card+Front Camera On+SIM+Sample 1
11	Adapter 1+USB cable 3+Earphone+TF Card+Back Camera On+SIM+Sample 1
12	LTE B66 Idle+Adapter 1+USB cable 4+Earphone+TF Card+SIM+Sample 1
13	LTE B38 Idle+USB Link +Data Transmission+USB cable 1/2/3/4+TF Card+EUT to Notebook+Earphone+SIM+Sample 1
14	LTE B41 Idle+USB Link +Data Transmission+USB cable 5/6/7/8+TF Card+Notebook to TF Card+Earphone+SIM+Sample 1
15	Worst of 1-12+Adapter 2
16	Worst of 1-15+Sample 2
17	Worst of 1-15+Sample 3
18	Worst of 1-15+Sample 4
19	Worst of 1-15+Sample 5
20	Worst of 1-15+Sample 6

NOTE:

- 1. For conducted emission test, Pre-scan all mode, mode 1 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, Pre-scan all mode, test mode 18 was the worst case and only this mode was presented in this report



1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR /	FOR All TESTS					
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID	
1	Laptop	Lenovo	Thinkpad L440	R90FTFKP	N/A	
2	Micro SD	SAM SUNG	N/A	N/A	N/A	
3	USB Cable	MI	N/A	N/A	N/A	
4	FM signal generator	Rohde & Schwarz	SMB100A	109279	N/A	
5	Printer	HP	hp LaserJet 1300	CNSJF75989	N/A	

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS					
1	USB Line: Shielded, Detachable 1m;					
2	N/A					
3	N/A					
4	N/A					



2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 A CLASS B)

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.107 B CLASS A)

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

NOTE: 1.The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 14,24	Feb. 13,25
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 10,24	Mar. 09,25

NOTE: 1. The test was performed in CE shielded room.



2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit 20dB) were not recorded.

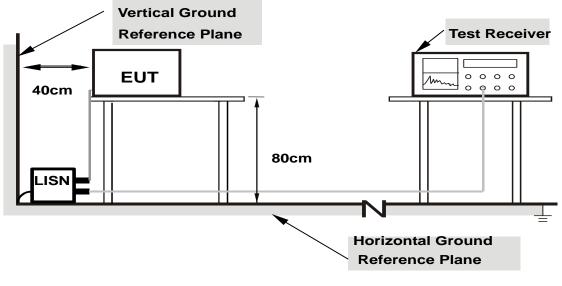
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.

2.1.5 TEST SETUP





Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



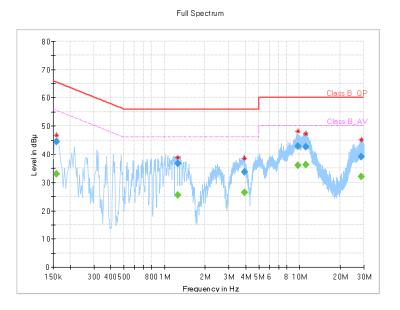
2.1.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000		33.07	55.57	22.50	L1	ON	9.8
0.158000	44.40		65.57	21.17	L1	ON	9.8
1.252000		25.38	46.00	20.62	L1	ON	9.8
1.252000	36.73		56.00	19.27	L1	ON	9.8
3.920000		26.52	46.00	19.48	L1	ON	9.8
3.920000	33.75		56.00	22.25	L1	ON	9.8
9.708000		35.97	50.00	14.03	L1	ON	10.4
9.708000	42.72		60.00	17.28	L1	ON	10.4
11.172000		36.19	50.00	13.81	L1	ON	10.5
11.172000	42.55		60.00	17.45	L1	ON	10.5
28.704000		32.06	50.00	17.94	L1	ON	11.3
28.704000	39.02		60.00	20.98	L1	ON	11.3

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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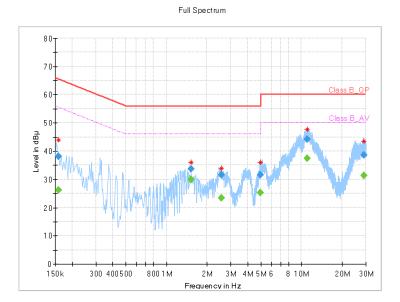


TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 51%RH	TESTED BY	Carl xie

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000		26.24	55.57	29.33	Ν	ON	9.7
0.158000	38.24		65.57	27.33	Ν	ON	9.7
1.524000		29.83	46.00	16.17	Ν	ON	9.8
1.524000	33.76		56.00	22.24	Ν	ON	9.8
2.544000		23.37	46.00	22.63	Ν	ON	9.8
2.544000	31.66		56.00	24.34	N	ON	9.8
4.976000		25.22	46.00	20.78	Ν	ON	9.7
4.976000	31.49		56.00	24.51	Ν	ON	9.7
11.032000		37.38	50.00	12.62	Ν	ON	10.5
11.032000	44.10		60.00	15.90	Ν	ON	10.5
28.868000		31.26	50.00	18.74	N	ON	11.4
28.868000	38.53		60.00	21.47	Ν	ON	11.4

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC PART 15, SUBPART B (SECTION: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dBµV/m)							
FrequenciesFCC 15B,FCC 15B,(MHz)Class AClass B							
30-88	49	40					
88-216	53.5	43.5					
216-960	56	46					
960-1000	59.5	54					
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74					

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
 - 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 - 4. QP detector shall be applied if not specified.



2.2.2 TEST INSTRUMENTS

Frequency range below1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	umahmahm	Euroshieldpn- CT0001143-1216	Nov. 14,23	Nov. 13,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,24	Feb. 17,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
E3 Test Software	E3	V 9.160323	N/A	N/A	N/A

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Nov. 14,23	Nov. 13,26
Horn Antenna	ETS-LINDGREN	3117	00168728	Nov. 30,23	Nov. 29,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40- K-SG/QMS-003 61	15433	Sep.04, 23	Sep.03, 24
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb. 16,25
E3 Test Software	E3	V 9.160323	N/A	N/A	N/A

NOTE: 1. The test was performed in 3m chamber.

2. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



2.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.



<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

- . The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- . The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
- . For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- . Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- . Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- . Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- . Margin value = Emission level Limit value.

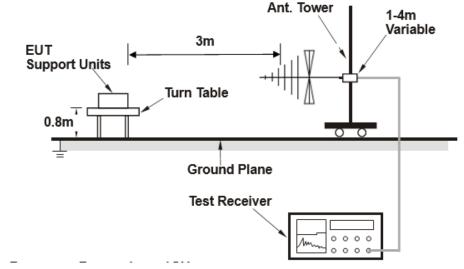
2.2.4 DEVIATION FROM TEST STANDARD

No deviation.

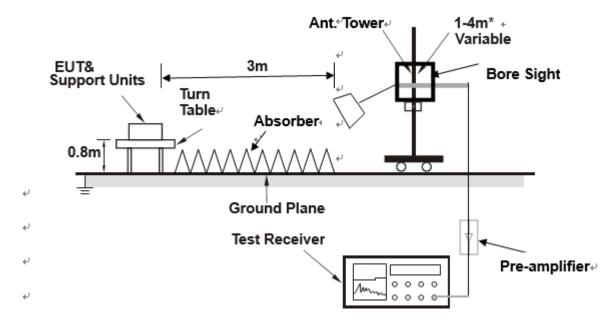


2.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.

2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

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2.2.7 TEST RESULTS

Acceleromete alternative worst case:

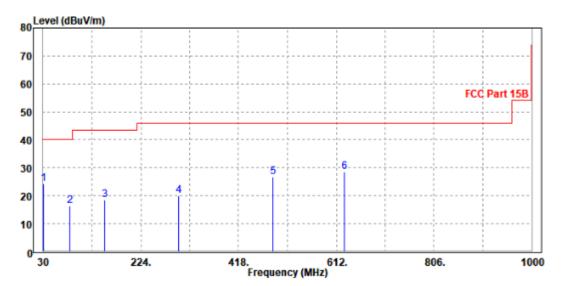
TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz		
TESTED BY	Jace Hu				

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 PP 2	30.970 82.380	24.23	36.91 40.86		-15.77			Horizontal Horizontal
3	152.220	18.59	38.44	43.50	-24.91	-19.85	Peak	Horizontal Horizontal
4 5 6	486.870	26.68 28.49	37.78 35.79	46.00	-25.95 -19.32 -17.51	-11.10	Peak	Horizontal Horizontal

REMARKS: 1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)

- 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)- Amplifier Gain
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



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TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70% RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Jace Hu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2 PP 3 4 5 6	34.850 80.440 135.730 154.160 409.270 544.100	30.13 31.78 26.84 28.96 23.42 26.79	44.62 55.94 48.91 48.22 34.93 34.71	40.00 43.50 43.50 46.00	-9.87 -8.22 -16.66 -14.54 -22.58 -19.21	-22.07 -19.26 -11.51	Peak Peak Peak Peak	Vertical Vertical Vertical Vertical Vertical Vertical

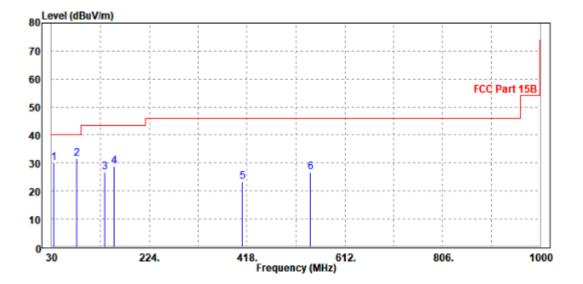
REMARKS:

1. Emission level(dBuV/m)=Read Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Amplifier Gain

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.





TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	123deg C 70 %RH		Peak/Average, 1 MHz
TESTED BY	Jace Hu		

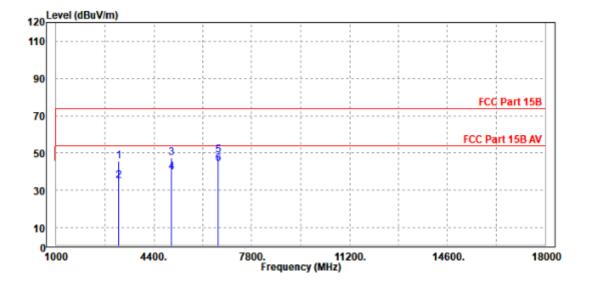
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
3176	45.81	49.35	74	-28.19	33.67	8.76	45.97	100	110	Peak		
3176	35.2	38.74	54	-18.8	33.67	8.76	45.97	100	110	Average		
5012	47.32	48.96	74	-26.68	33.98	11.01	46.63	100	70	Peak		
5012	39.85	41.49	54	-14.15	33.98	11.01	46.63	100	70	Average		
6627	48.77	47.52	74	-25.23	35.2	12.55	46.5	100	360	Peak		
6627	44.06	42.81	54	-9.94	35.2	12.55	46.5	100	360	Average		

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower .For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

4. Only emissions significantly above equipment noise floor are reported.





TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz		
TESTED BY	Jace Hu				

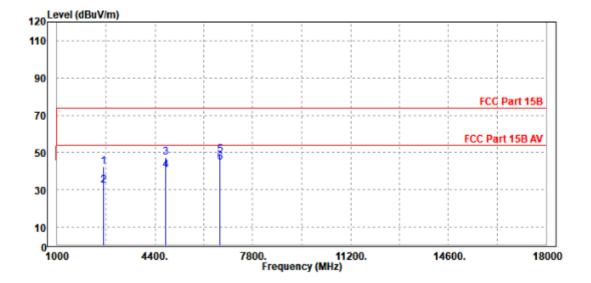
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
2598	42.43	47.3	74	-31.57	33.16	8.04	46.07	100	265	Peak		
2598	32.59	37.46	54	-21.41	33.16	8.04	46.07	100	265	Average		
4757	47.24	49	74	-26.76	33.98	10.72	46.46	100	70	Peak		
4757	40.61	42.37	54	-13.39	33.98	10.72	46.46	100	70	Average		
6661	48.92	47.6	74	-25.08	35.26	12.57	46.51	100	144	Peak		
6661	44.74	43.42	54	-9.26	35.26	12.57	46.51	100	144	Average		

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 1GHz to 5th harmonic of the highest frequency or 40GHz, whichever is lower .For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

4. Only emissions significantly above equipment noise floor are reported.





3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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