



FCC SDoC Test Report

For

Applicant Name: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
A2 2F BUILDNG ENET NEW INDUSTRIAL PARK, DAFU
Address: INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX
China
EUT Name: Smart Phone
Brand Name: OUKITEL
Model Number: C53
Series model number C53 S,C53 Pro,C53 Plus,C53 Ultra

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,
Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,
China

Report Number: BTF240729E00101
Test Standards: 47 CFR Part 15, Subpart B

Test Conclusion: Pass
FCC ID: 2ANMU-C53
Test Date: 2024-07-30 to 2024-08-22
Date of Issue: 2024-08-22

Test By: Xing Chen
Xing.Chen/ Tester

Prepared By: Ace Xie
Ace Xie / Project Engineer
Date: 2024-08-22

Approved By: Ryan.CJ
Ryan.CJ / EMC Manager
Date: 2024-08-22



Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-08-22	Original
<i>Note: Once the revision has been made, then previous versions reports are invalid.</i>		

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1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 Product Information

2.1 Application Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDNG ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.2 Manufacturer Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDNG ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.3 Factory Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDNG ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Smart Phone
Test Model Number:	C53
Series model name	C53 S,C53 Pro,C53 Plus,C53 Ultra
Description of model name differentiation	Only the model name is different, the others are the same.

2.5 Technical Information

Power Supply:	DC 5V from adaptor or DC 4.4V from battery
Power Adaptor:	Model:ZFX021 Input:100-240V, 50/60Hz 0.2A Output:DC5.0V 1000mA

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15, Subpart B: Unintentional Radiators

3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	$\pm 2.64\text{dB}$
Radiated Emissions (30M - 1GHz)	$\pm 4.12\text{dB}$
Radiated Emissions (above 1GHz)	1-6GHz: $\pm 3.94\text{dB}$ 6-18GHz: $\pm 4.16\text{dB}$

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 $k=2$.

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Conducted emissions on AC mains	47 CFR Part 15, Subpart B	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass
Radiated emissions (Above 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass

4 Test Configuration

4.1 Test Equipment List

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	/	/
Coaxial Switcher	SCHWARZBECK	CX210	CX210	/	/
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15
LISN	AFJ	LS16/110VAC	16010020076	2023-11-16	2024-11-15
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2023-11-15	2024-11-14

Radiated emissions (Below 1GHz)					
Radiated emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	/	/
Preamplifier	SCHWARZBECK	BBV9744	00246	/	/
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	/	/
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	/	/
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	/	/
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	/	/
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-13	2024-11-12
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2023-11-15	2024-11-14
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2023-11-15	2024-11-14
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2023-11-13	2024-11-12

4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	Charging+working Mode	

5 Emission Test Results (EMI)

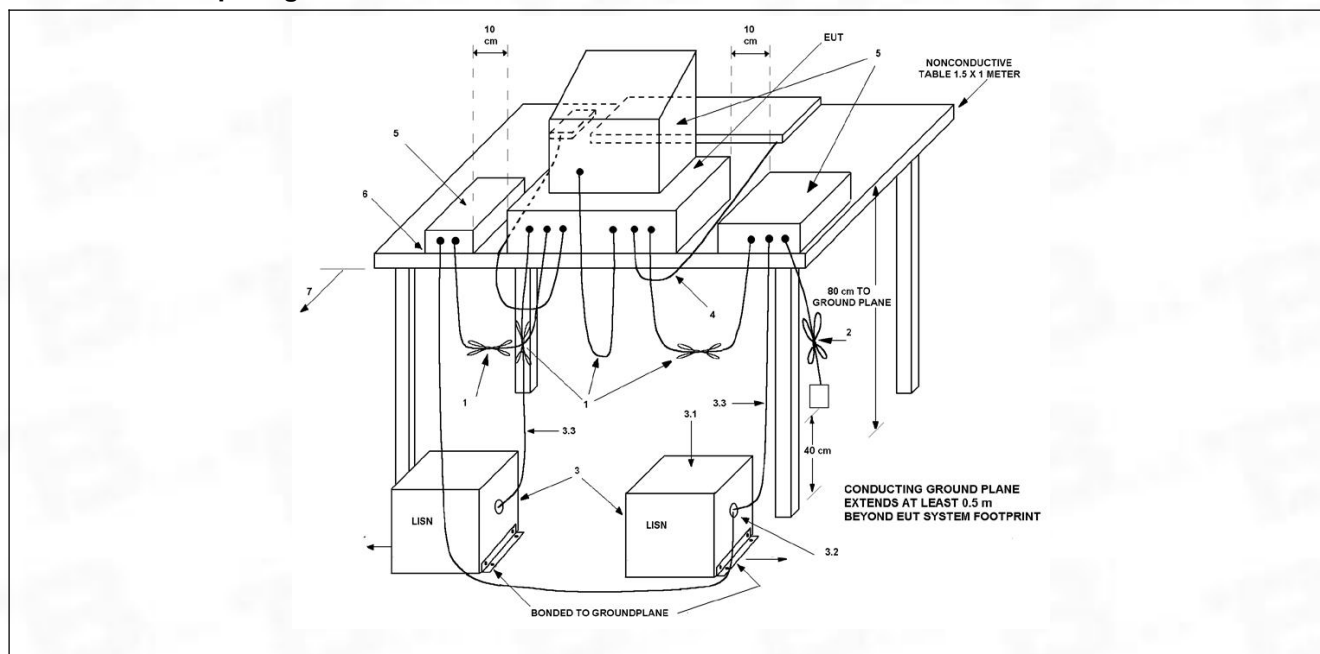
5.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Method:	ANSI C63.4-2014		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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.			
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

5.1.1 E.U.T. Operation:

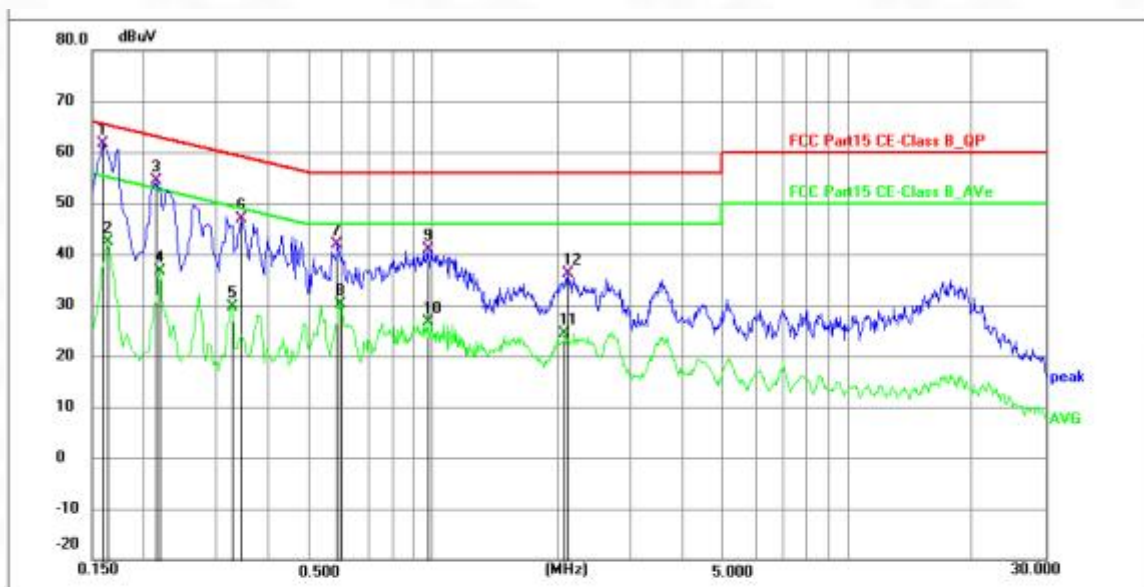
Operating Environment:	
Temperature:	24.7 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

5.1.2 Test Setup Diagram:



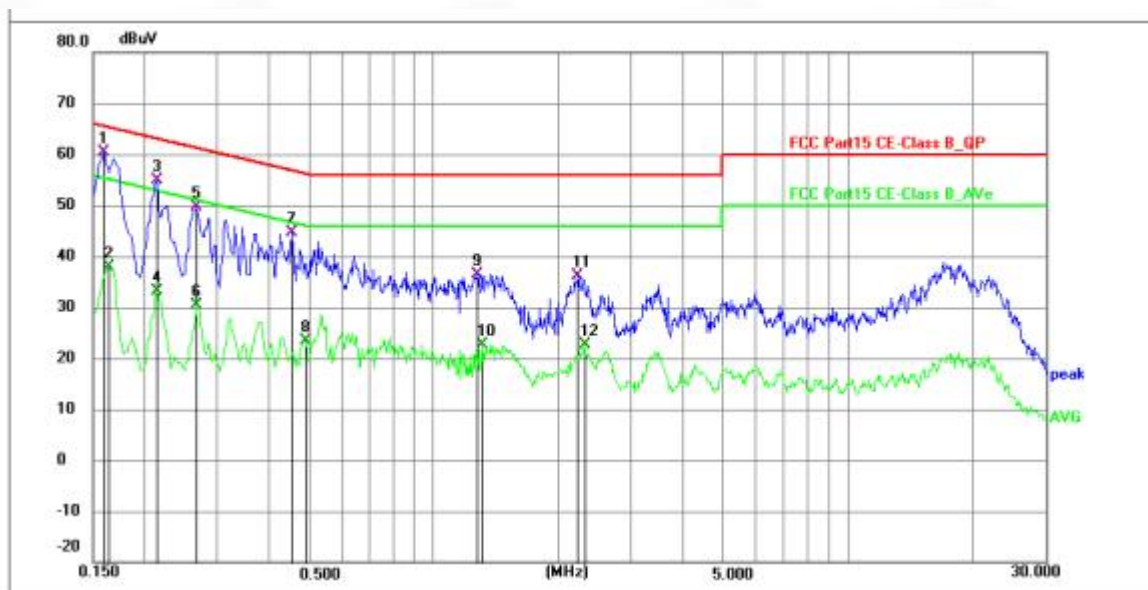
5.1.3 Test Data:

TM1 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1590	51.11	10.47	61.58	65.52	-3.94	QP	P	
2	0.1635	31.96	10.48	42.44	55.28	-12.84	AVG	P	
3	0.2130	43.73	10.56	54.29	63.09	-8.80	QP	P	
4	0.2174	25.97	10.56	36.53	52.92	-16.39	AVG	P	
5	0.3255	19.16	10.57	29.73	49.57	-19.84	AVG	P	
6	0.3435	36.34	10.57	46.91	59.12	-12.21	QP	P	
7	0.5865	31.38	10.62	42.00	56.00	-14.00	QP	P	
8	0.5955	19.54	10.63	30.17	46.00	-15.83	AVG	P	
9	0.9690	30.22	10.66	40.88	56.00	-15.12	QP	P	
10	0.9690	16.04	10.66	26.70	46.00	-19.30	AVG	P	
11	2.0803	13.64	10.68	24.32	46.00	-21.68	AVG	P	
12	2.1164	25.34	10.68	36.02	56.00	-19.98	QP	P	

TM1 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1590	49.93	10.47	60.40	65.52	-5.12	QP	P	
2	0.1635	27.37	10.48	37.85	55.28	-17.43	AVG	P	
3	0.2130	44.20	10.56	54.76	63.09	-8.33	QP	P	
4	0.2130	22.57	10.56	33.13	53.09	-19.96	AVG	P	
5	0.2670	39.08	10.56	49.64	61.21	-11.57	QP	P	
6	0.2670	19.79	10.56	30.35	51.21	-20.86	AVG	P	
7	0.4515	34.03	10.57	44.60	56.85	-12.25	QP	P	
8	0.4874	12.73	10.57	23.30	46.21	-22.91	AVG	P	
9	1.2703	25.74	10.66	36.40	56.00	-19.60	QP	P	
10	1.3154	12.09	10.66	22.75	46.00	-23.25	AVG	P	
11	2.2290	25.36	10.68	36.04	56.00	-19.96	QP	P	
12	2.3144	11.88	10.67	22.55	46.00	-23.45	AVG	P	

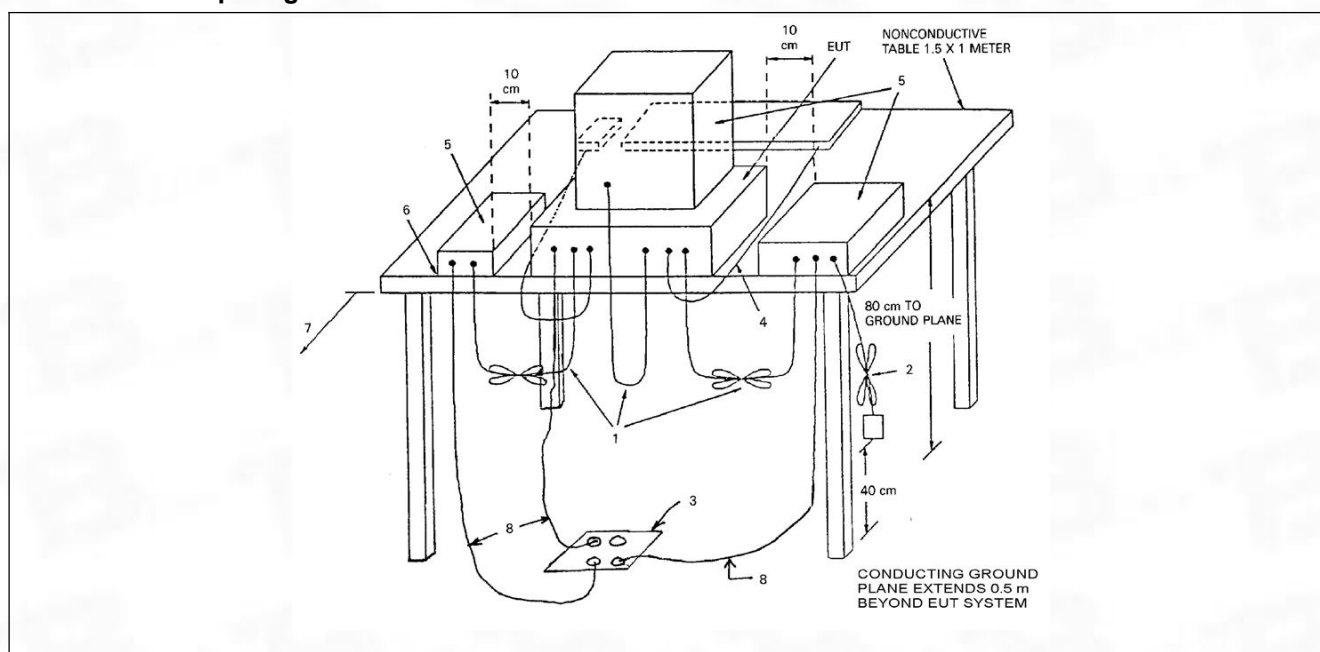
5.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Method:	ANSI C63.4-2014				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
	216 – 960	200	46	60	35.6
	Above 960	500	54	150	43.5
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

5.2.1 E.U.T. Operation:

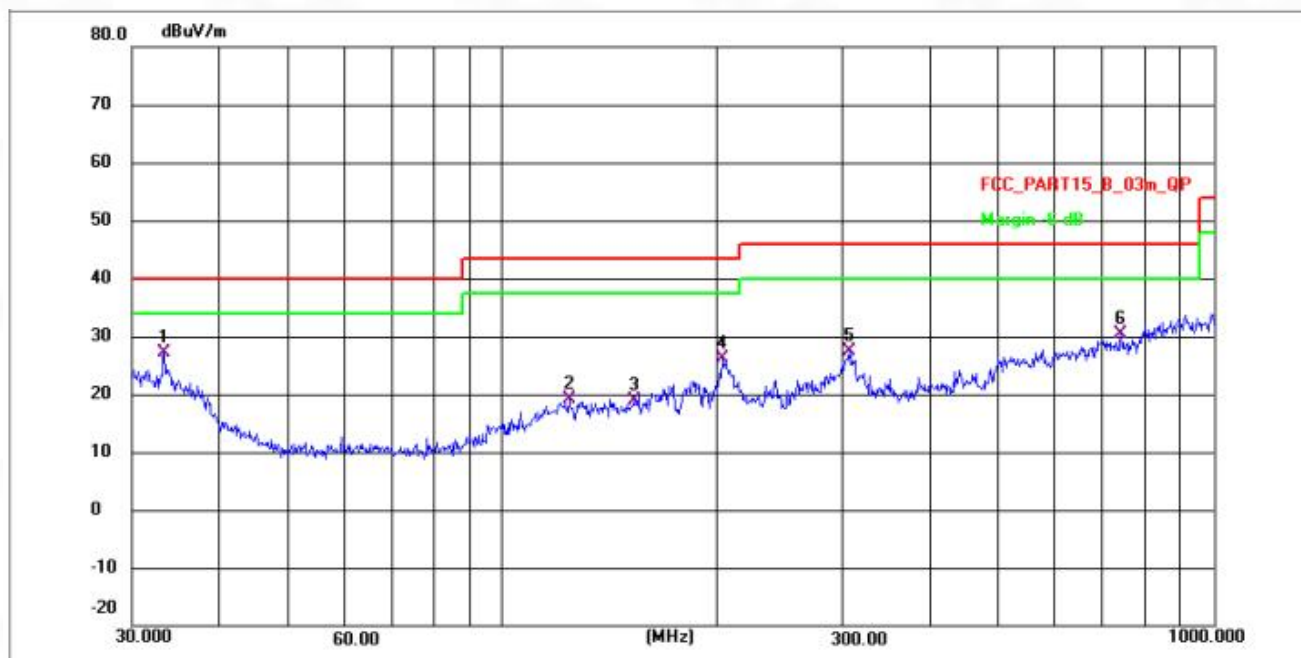
Operating Environment:	
Temperature:	24.6 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

5.2.2 Test Setup Diagram:



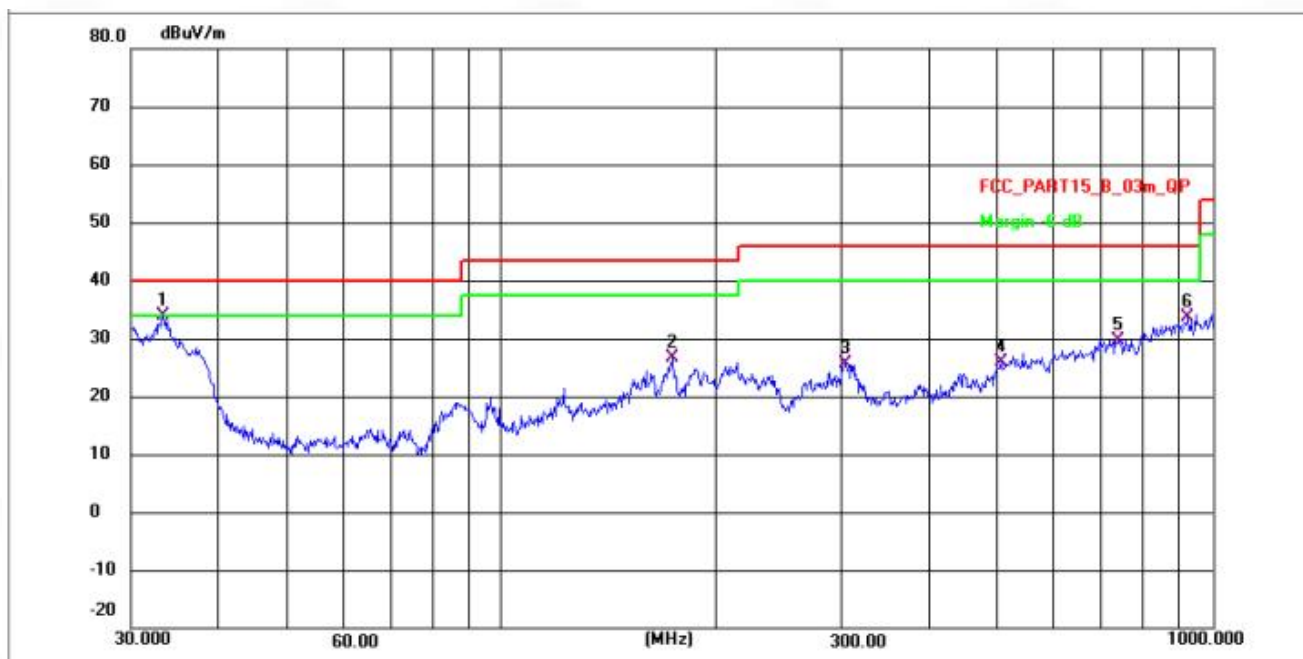
5.2.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	33.3864	31.32	-4.30	27.02	40.00	-12.98	QP	P
2	123.9155	32.68	-13.52	19.16	43.50	-24.34	QP	P
3	152.6641	33.25	-14.46	18.79	43.50	-24.71	QP	P
4	203.5228	40.57	-14.56	26.01	43.50	-17.49	QP	P
5	307.8313	40.70	-13.20	27.50	46.00	-18.50	QP	P
6	740.9585	48.15	-17.73	30.42	46.00	-15.58	QP	P

TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	33.3279	38.17	-4.30	33.87	40.00	-6.13	QP	P
2	173.8135	40.71	-14.20	26.51	43.50	-16.99	QP	P
3	305.6800	38.86	-13.22	25.64	46.00	-20.36	QP	P
4	503.8221	37.94	-12.10	25.84	46.00	-20.16	QP	P
5	739.6604	47.41	-17.72	29.69	46.00	-16.31	QP	P
6	922.5157	49.69	-16.08	33.61	46.00	-12.39	QP	P

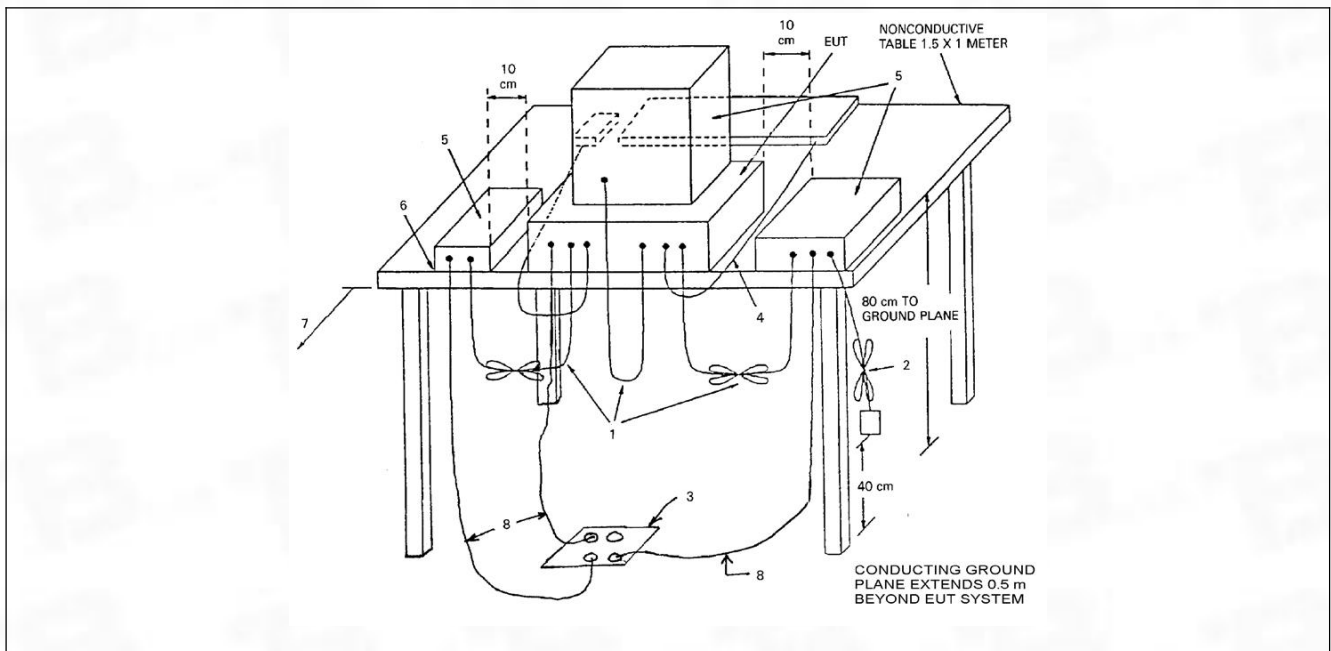
5.3 Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B		
Test Method:	ANSI C63.4-2014		
Test Limit:	Frequency of emission (MHz)	Field strength @3m	
		Average (uV/m)	Average(dBuV/m)
	Above 1GHz	500	54
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor		

5.3.1 E.U.T. Operation:

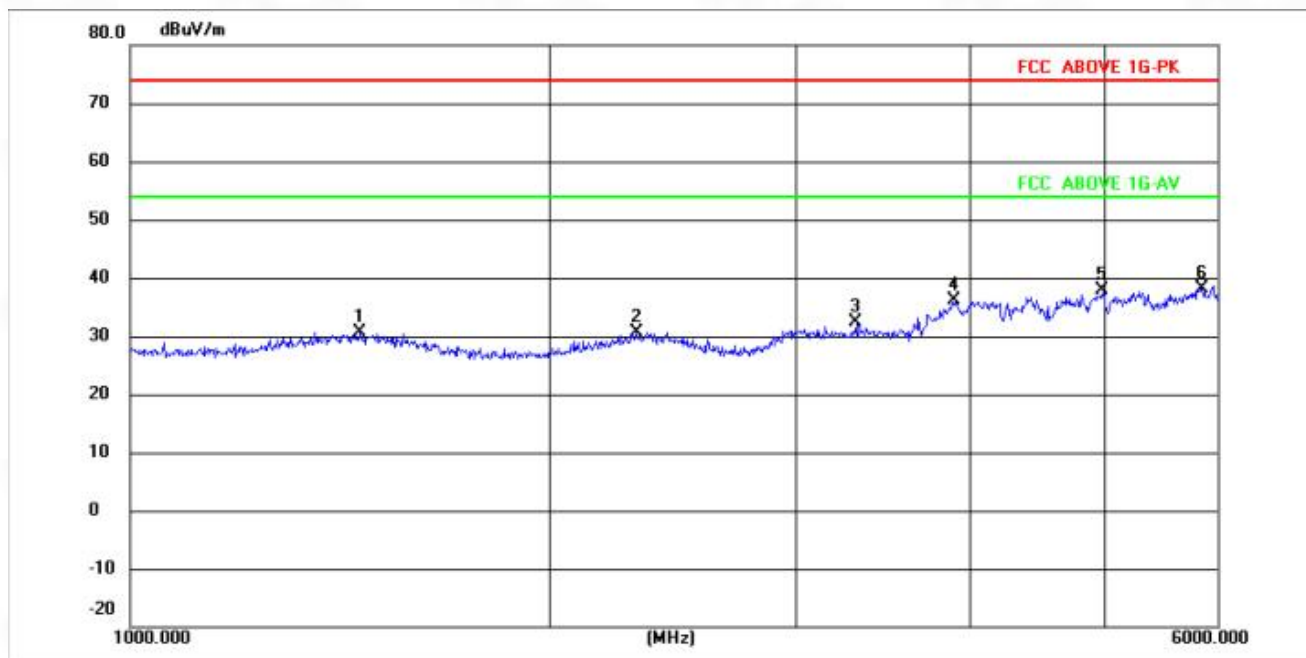
Operating Environment:	
Temperature:	24.7 °C
Humidity:	52 %
Atmospheric Pressure:	1010 mbar

5.3.2 Test Setup Diagram:



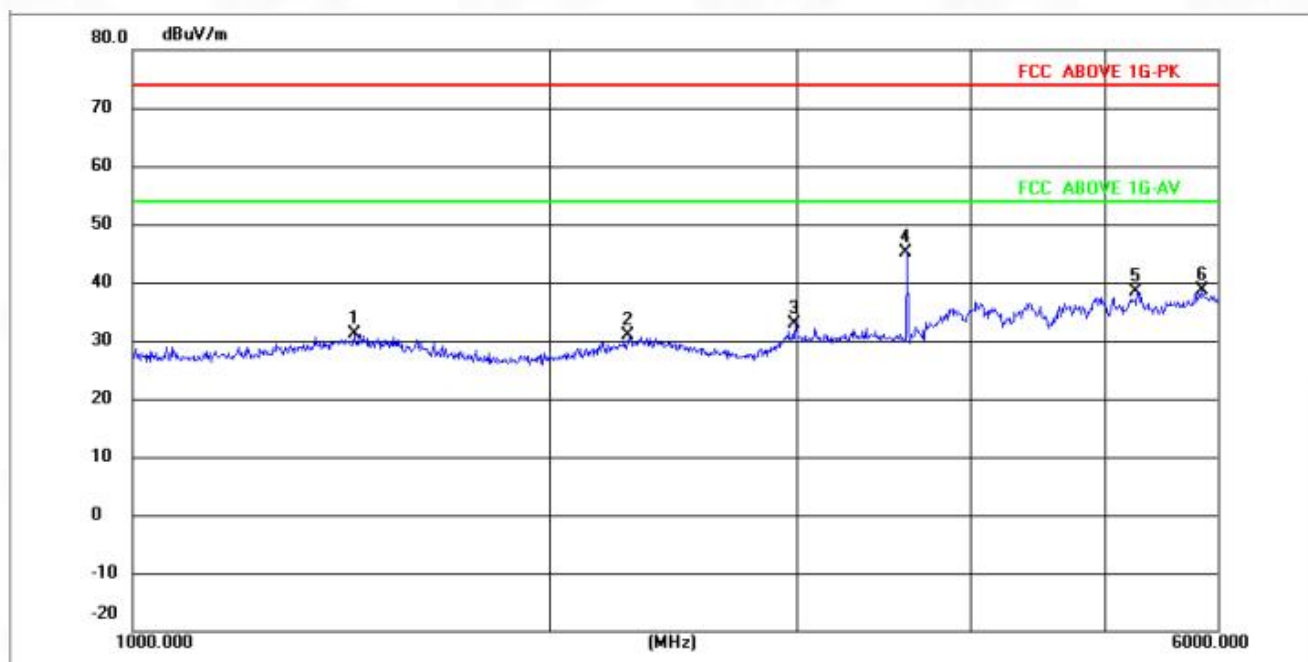
5.3.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1460.237	55.94	-25.42	30.52	74.00	-43.48	peak	P
2	2307.201	80.32	-49.61	30.71	74.00	-43.29	peak	P
3	3310.418	81.71	-49.26	32.45	74.00	-41.55	peak	P
4	3900.870	85.48	-49.38	36.10	74.00	-37.90	peak	P
5	4979.933	86.59	-48.77	37.82	74.00	-36.18	peak	P
6 *	5852.413	86.54	-48.39	38.15	74.00	-35.85	peak	P

TM1 / Polarization: Vertical



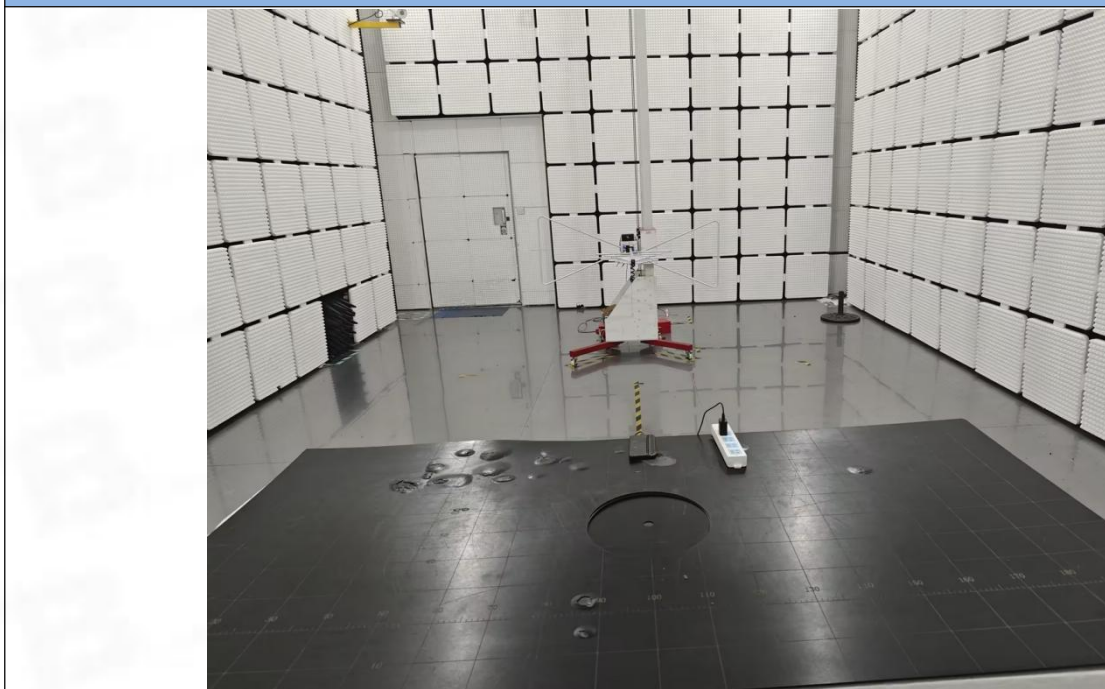
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1443.329	81.11	-49.95	31.16	74.00	-42.84	peak	P
2	2275.180	80.54	-49.63	30.91	74.00	-43.09	peak	P
3	2992.767	82.06	-49.20	32.86	74.00	-41.14	peak	P
4 *	3598.047	94.49	-49.32	45.17	74.00	-28.83	peak	P
5	5259.653	86.97	-48.65	38.32	74.00	-35.68	peak	P
6	5858.708	87.00	-48.39	38.61	74.00	-35.39	peak	P

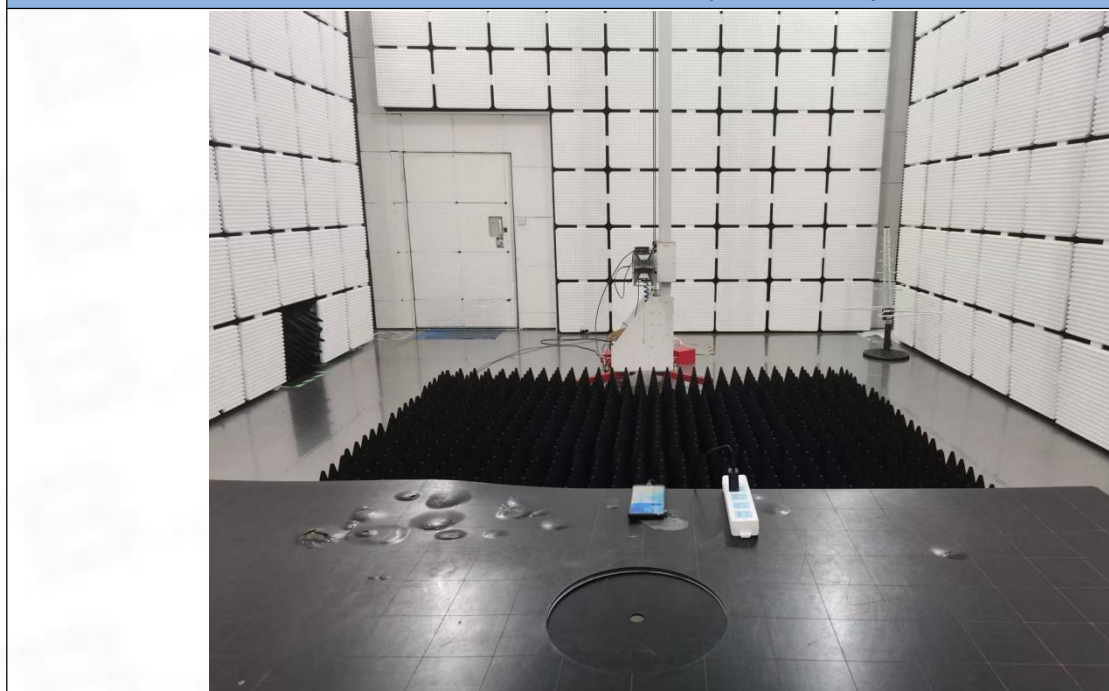
6 Test Setup Photos

Conducted emissions on AC mains



Radiated emissions (Below 1GHz)

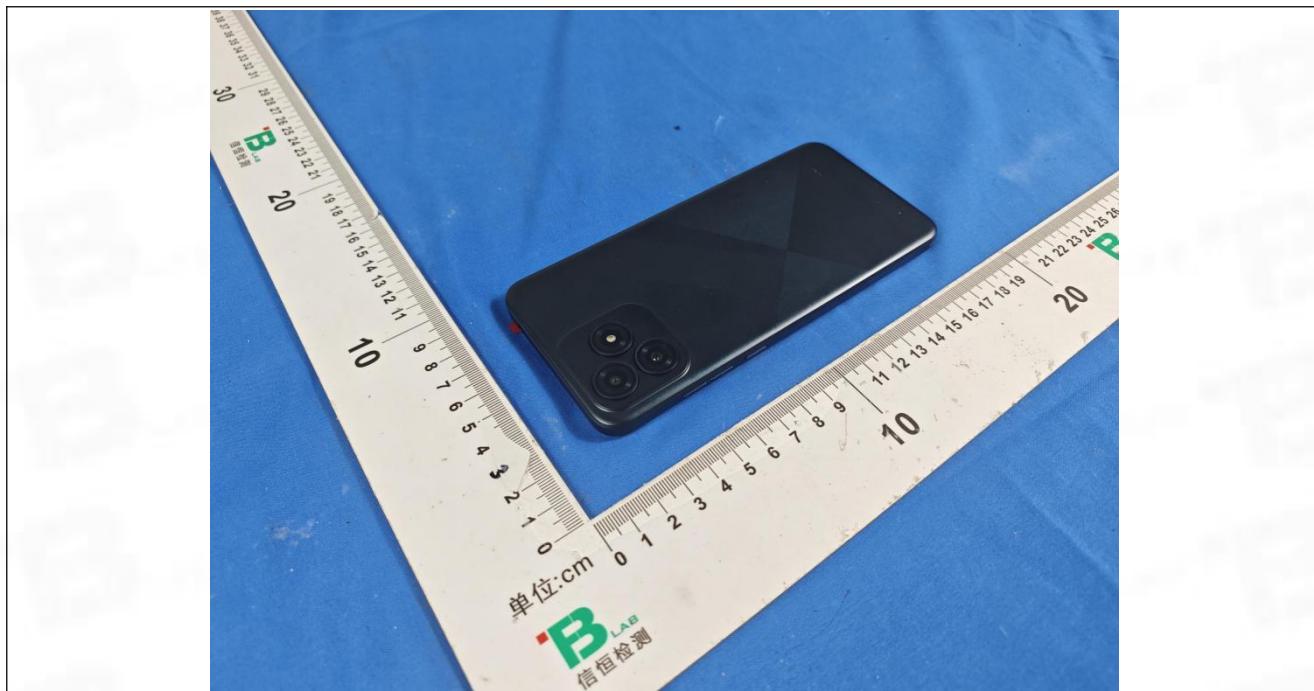


Radiated emissions (Above 1GHz)

7 EUT Constructional Details (EUT Photos)

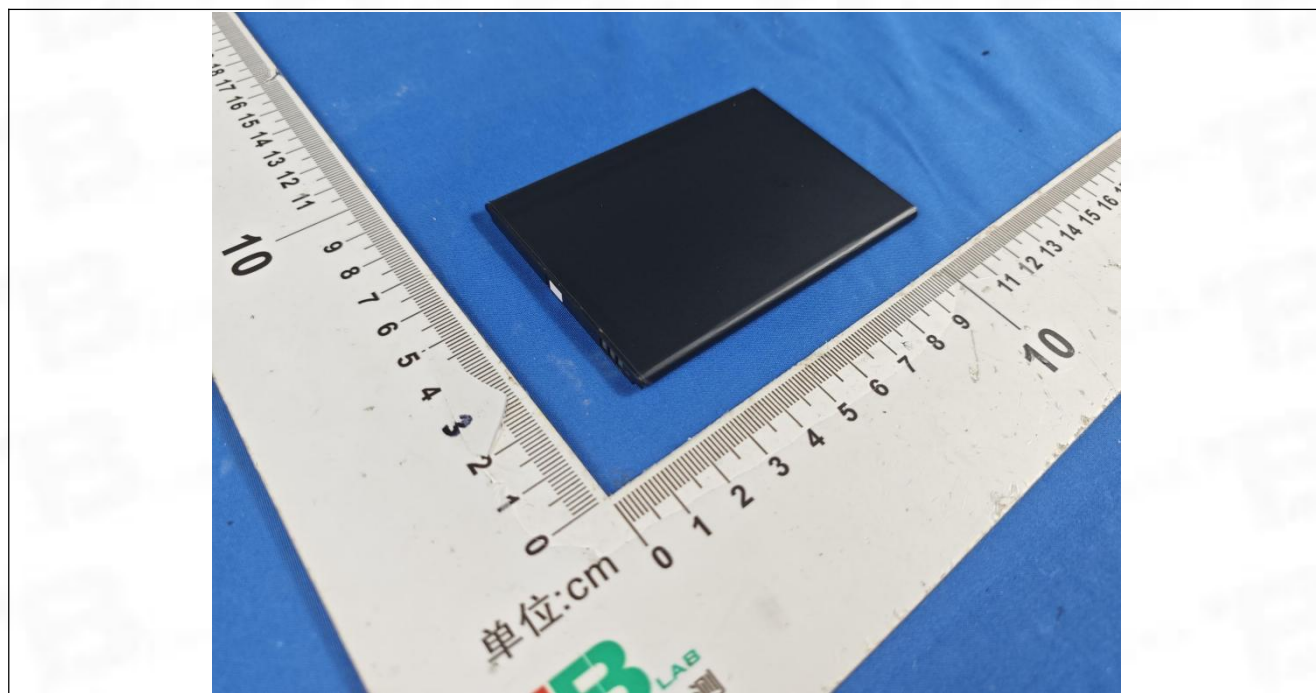
External

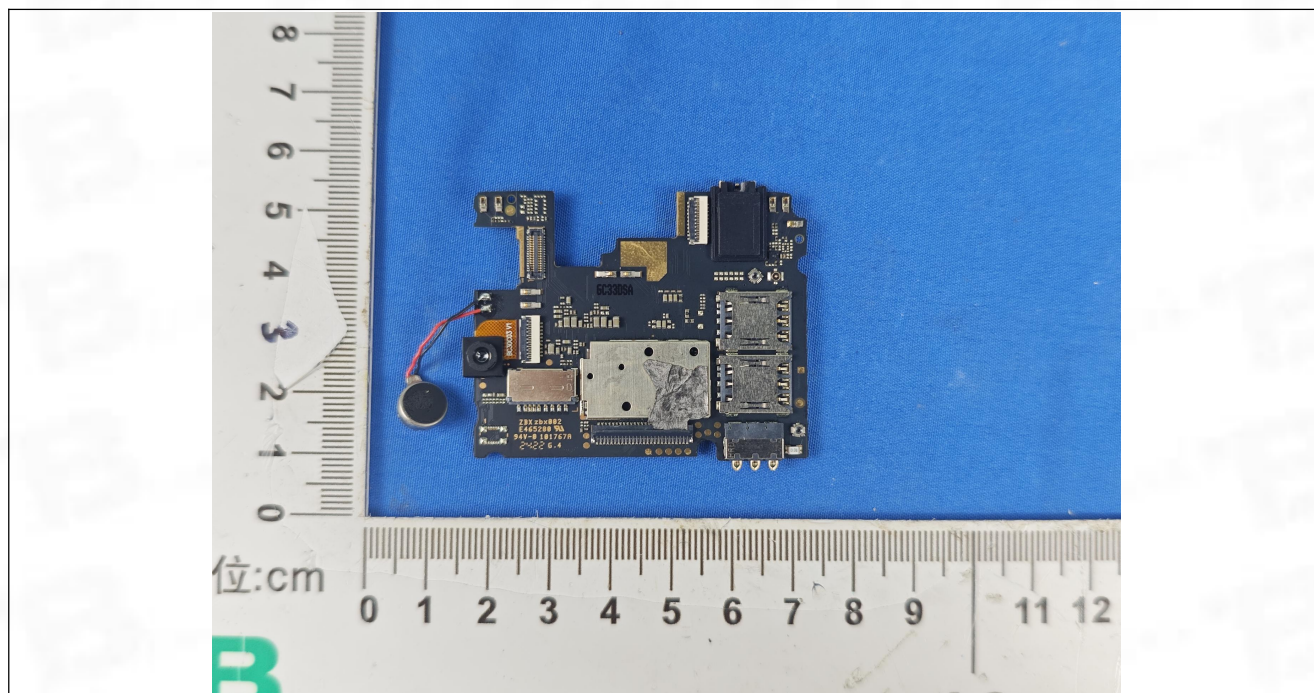
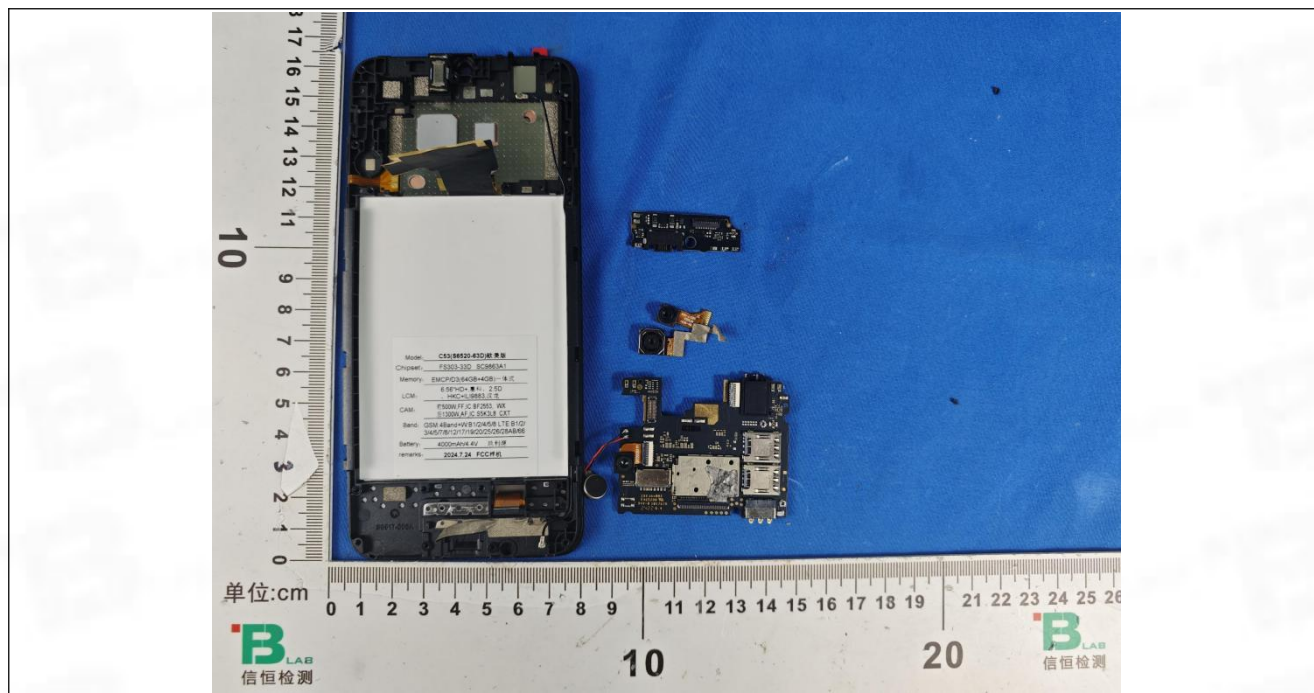


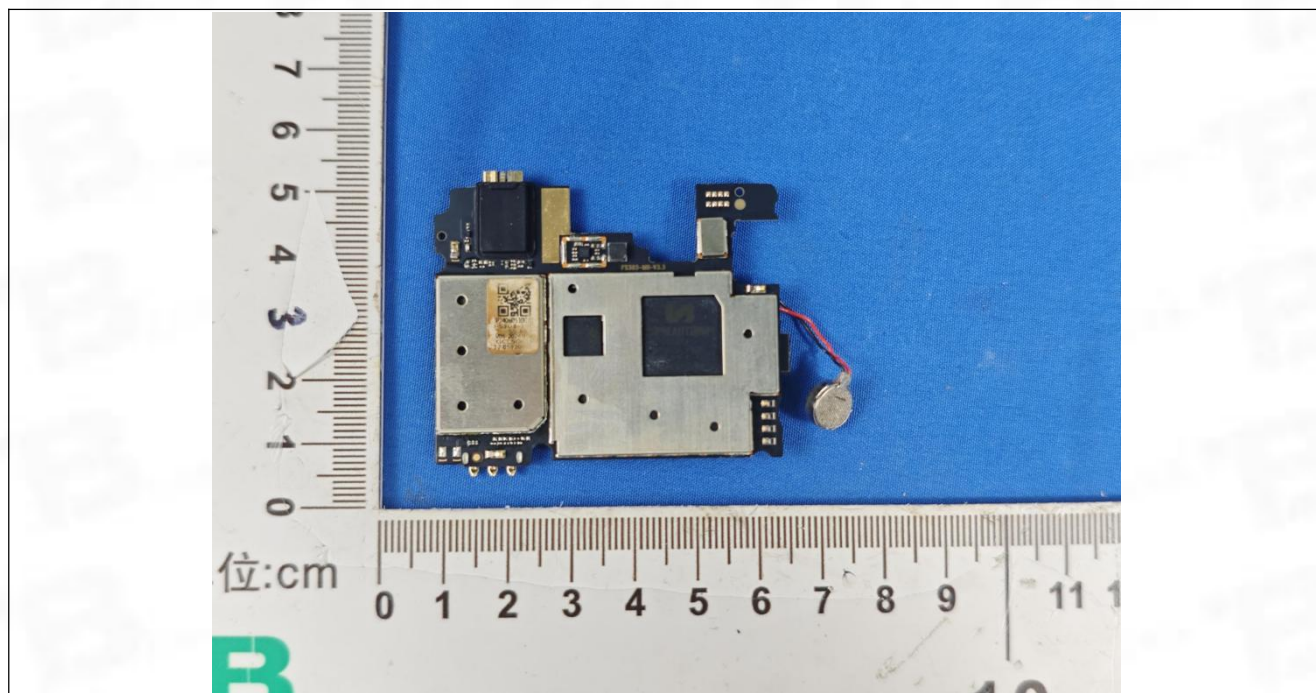
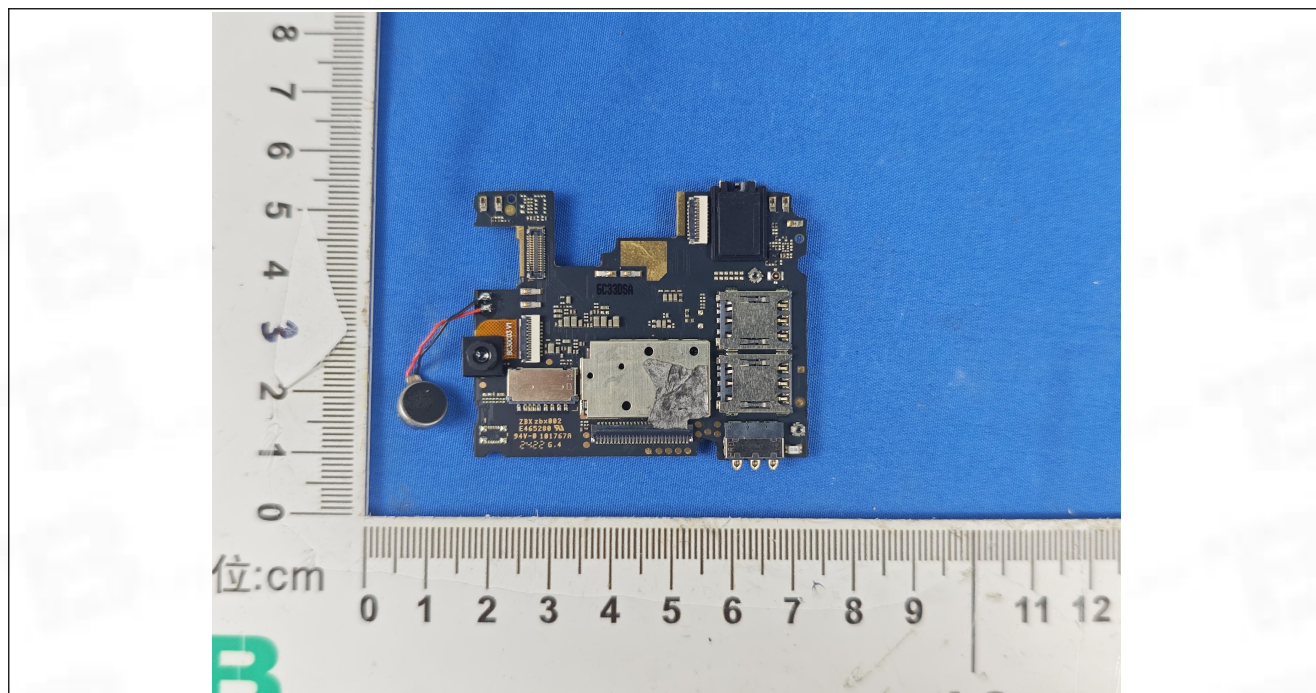


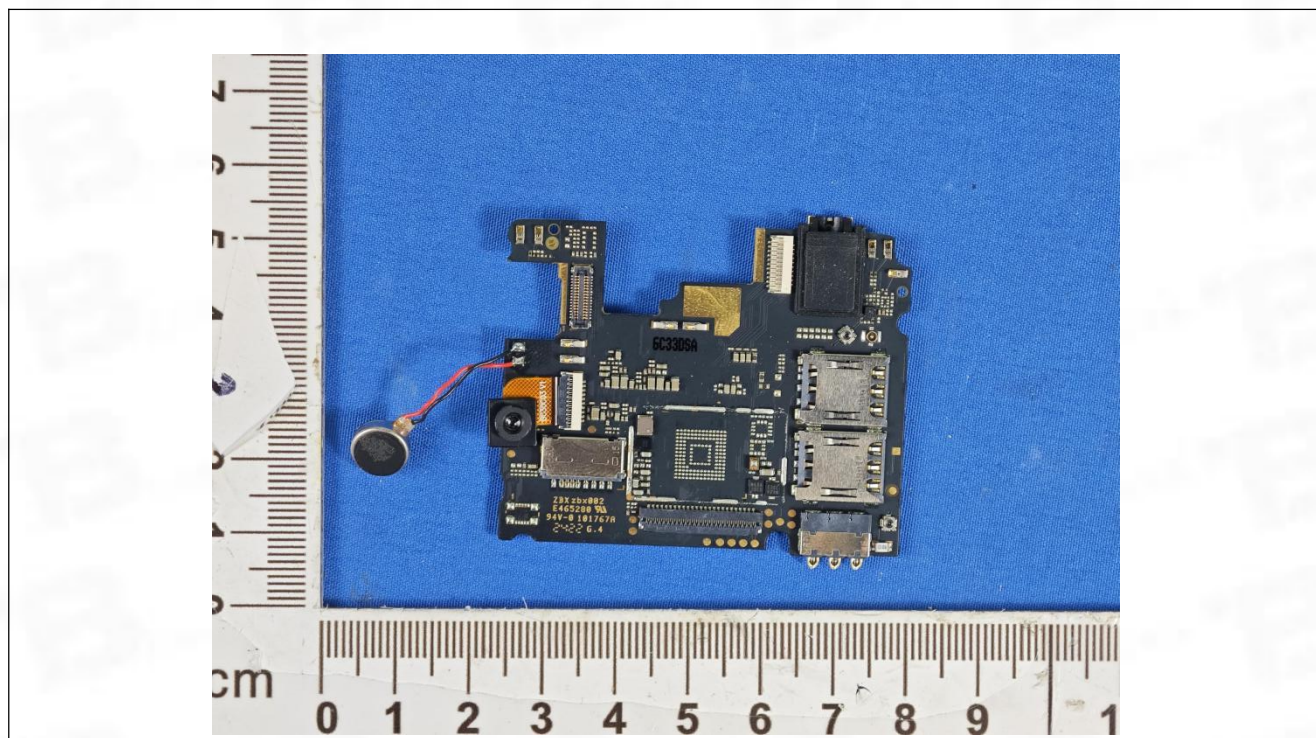
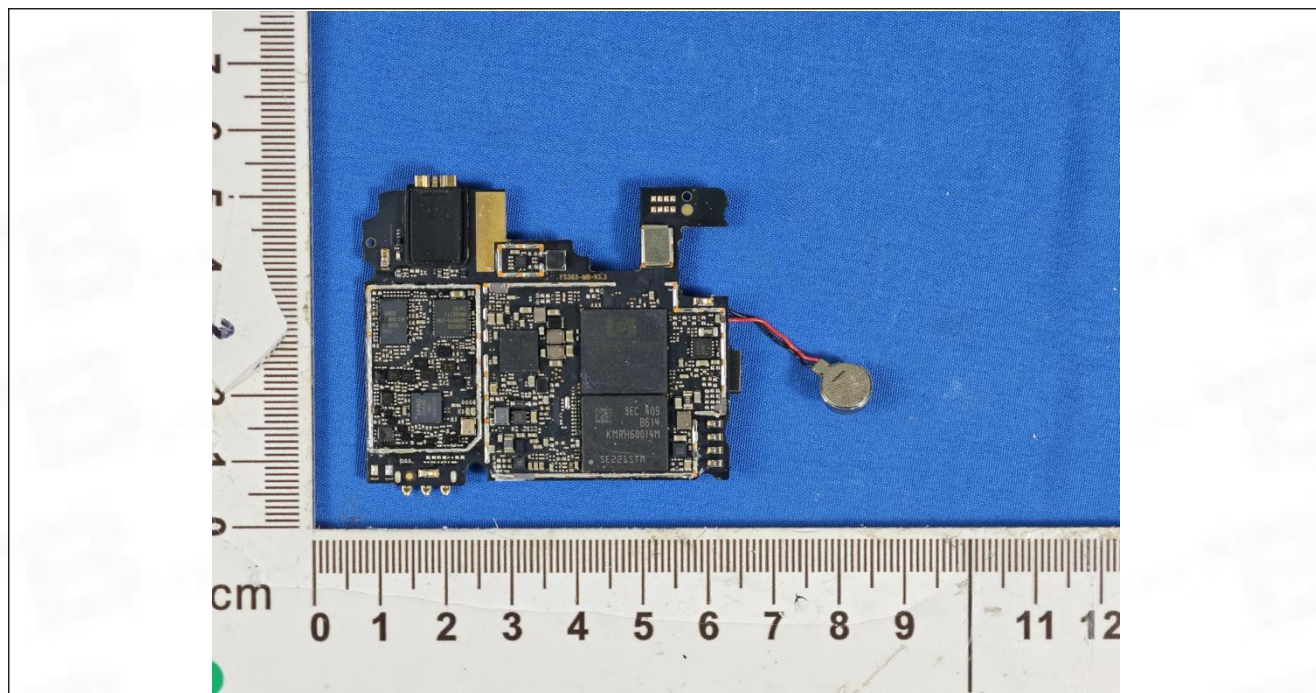
Internal

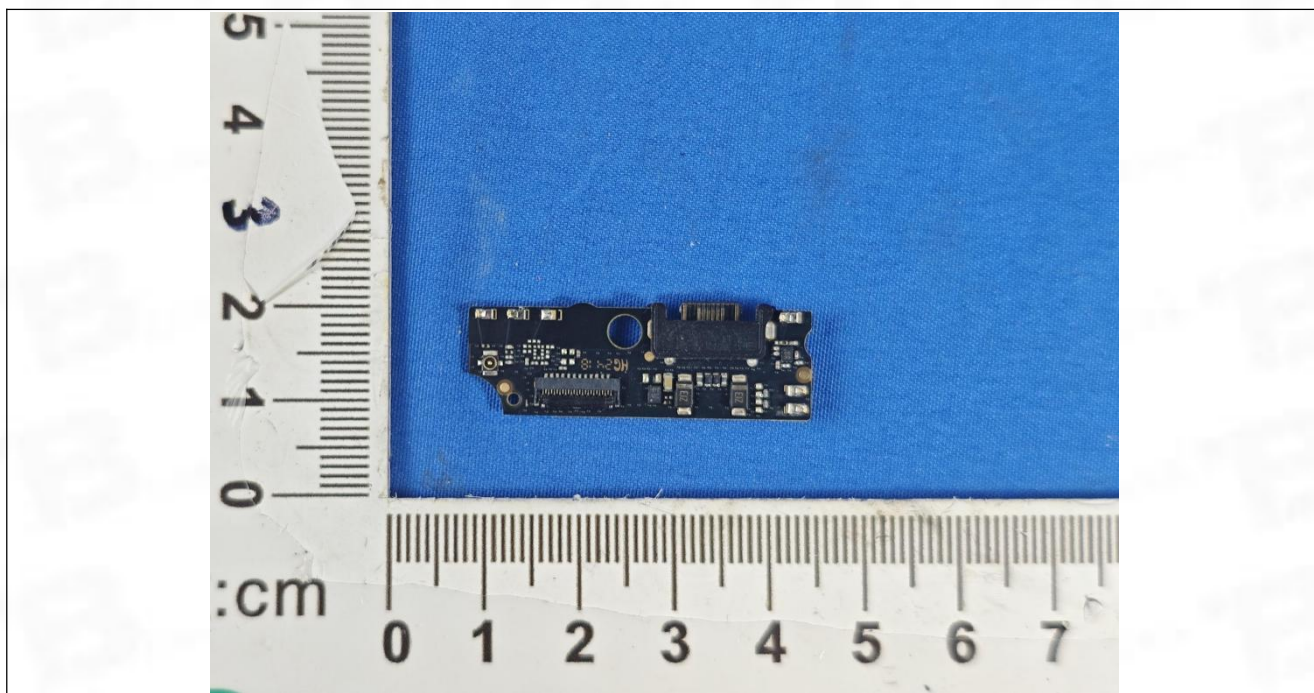
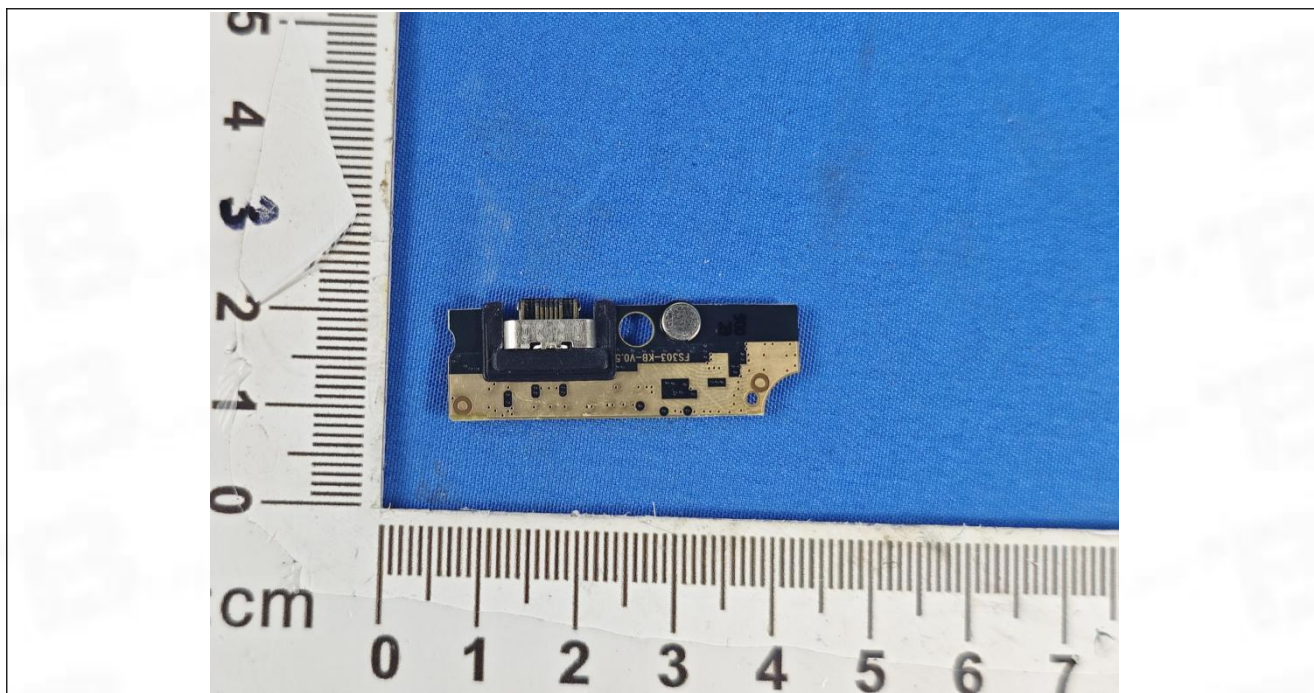














Test Report Number: BTF240729E00101



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www.btf-lab.com

-- END OF REPORT --