



# FCC SDoC Test Report

## For

**Applicant Name:** TECHNOSOURCE HK LIMITED  
**Address:** 2F, Building B, Sulandscape Industrial park, Shiyan Town, Bao'an District, Shenzhen China  
**EUT Name:** 3G Tablet  
**Brand Name:** ADVANCE  
**Model Number:** PR6173

## Issued By

**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

**Report Number:** BTF230324E00901  
**Test Standards:** 47 CFR Part 15, Subpart B

**Test Conclusion:** Pass  
**FCC ID:** 2AV3BPR6173  
**Test Date:** 2023-03-24 to 2023-04-02  
**Date of Issue:** 2023-04-03

**Prepared By:**

Chris Liu

**Date:**

Chris Liu / Project Engineer  
2023-04-03

**Approved By:**

Ryan.CJ

**Date:**

Ryan.CJ / EMC Manager  
2023-04-03

*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	2023-04-03	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:	TECHNOSOURCE HK LIMITED
Address:	2F, Building B, Sulandscape Industrial park, Shiyan Town, Bao'an District, Shenzhen China

### 2.2 Manufacturer Information

Company Name:	TECHNOSOURCE HK LIMITED
Address:	2F, Building B, Sulandscape Industrial park, Shiyan Town, Bao'an District, Shenzhen China

### 2.3 Factory Information

Company Name:	TECHNOSOURCE HK LIMITED
Address:	2F, Building B, Sulandscape Industrial park, Shiyan Town, Bao'an District, Shenzhen China

### 2.4 General Description of Equipment under Test (EUT)

EUT Name:	3G Tablet
Test Model Number:	PR6173

### 2.5 Technical Information

Power Supply:	DC 5V From Adaptor
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### 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)	$\pm 2.64\text{dB}$
All emissions, radiated (<1GHz)	$\pm 4.12\text{dB}$

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	2022-11-24	2023-11-23
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2022-11-24	2023-11-23

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

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	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2022-11-24	2023-11-23

RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27



## 4.2 Test Auxiliary Equipment

Title	Manufacturer	Model No.	Serial No.
Adapter	Huawei	HW-059200CHQ	/
USB Cable	/	/	0.4m

## 4.3 Test Modes

No.	Test Modes	Description
TM1	Charging + Video play	
TM2	Charging + Video recording	
TM3	Date transmission	

## 5 Emission Test Results (EMI)

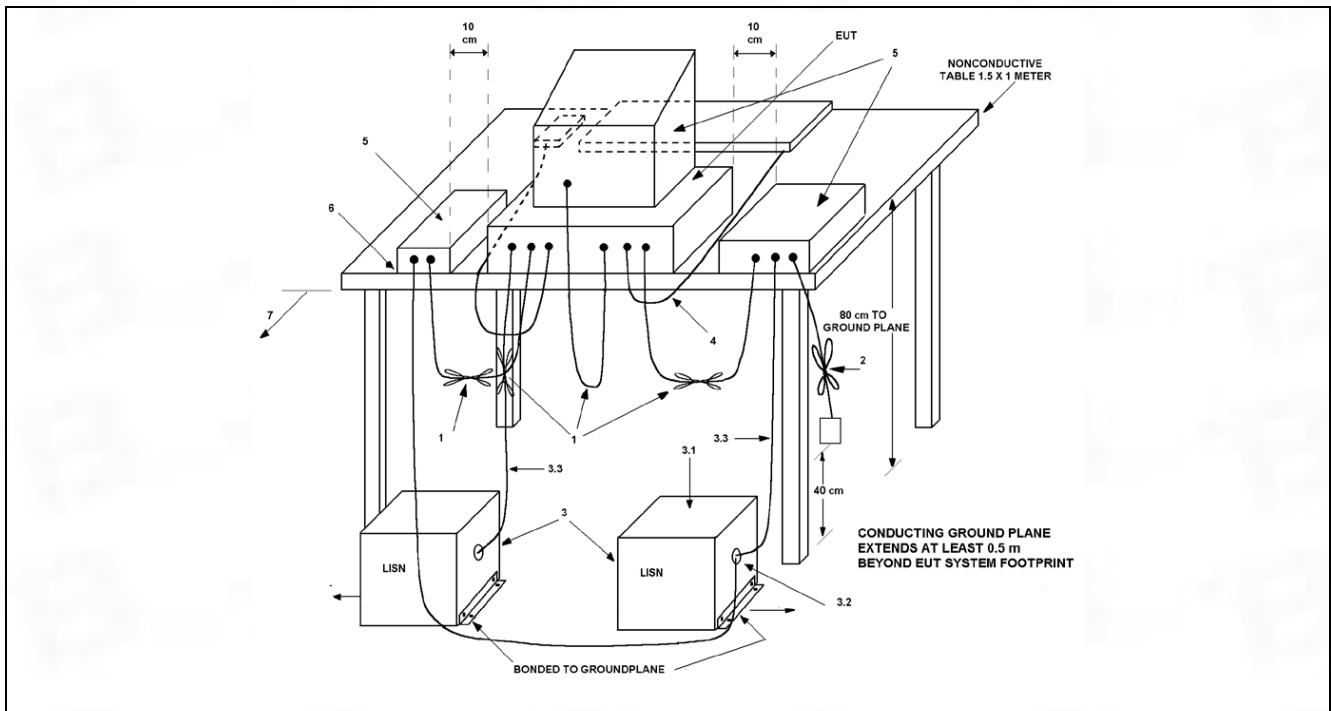
### 5.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Method:	ANSI C63.4		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
Procedure:	*Decreases with the logarithm of the frequency.		
	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:

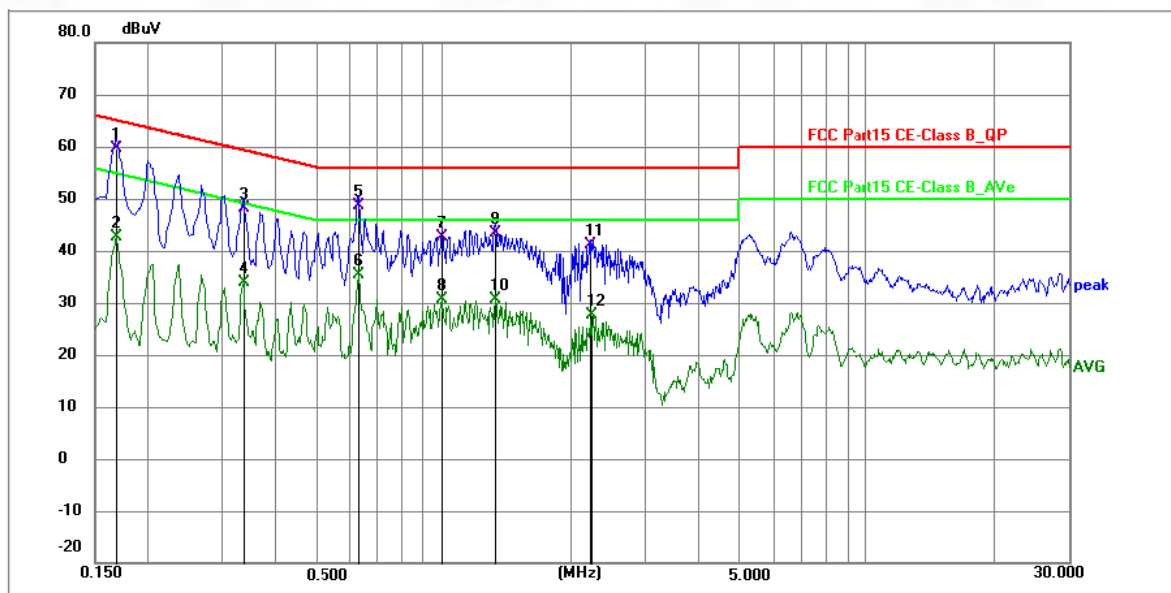
Operating Environment:	
Temperature:	23.5 °C
Humidity:	52.6 %
Atmospheric Pressure:	1010 mbar

#### 5.1.2 Test Setup Diagram:



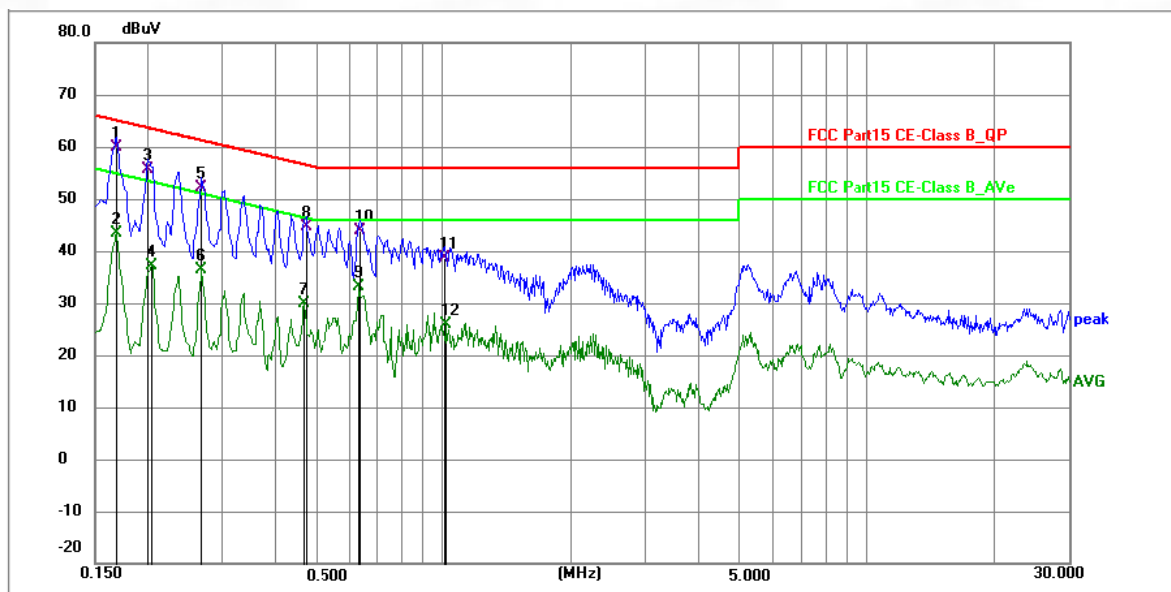
### 5.1.3 Test Data:

TM2 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1680	49.19	10.55	59.74	65.06	-5.32	QP	P	
2	0.1680	32.02	10.55	42.57	55.06	-12.49	AVG	P	
3	0.3345	37.41	10.62	48.03	59.34	-11.31	QP	P	
4	0.3345	23.37	10.62	33.99	49.34	-15.35	AVG	P	
5	0.6314	37.90	10.69	48.59	56.00	-7.41	QP	P	
6	0.6314	24.69	10.69	35.38	46.00	-10.62	AVG	P	
7	0.9960	31.77	10.78	42.55	56.00	-13.45	QP	P	
8	0.9960	19.92	10.78	30.70	46.00	-15.30	AVG	P	
9	1.3245	32.53	10.75	43.28	56.00	-12.72	QP	P	
10	1.3245	19.99	10.75	30.74	46.00	-15.26	AVG	P	
11	2.2244	31.68	9.57	41.25	56.00	-14.75	QP	P	
12	2.2559	18.16	9.42	27.58	46.00	-18.42	AVG	P	

TM2 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1680	49.24	10.55	59.79	65.06	-5.27	QP	P	
2	0.1680	32.76	10.55	43.31	55.06	-11.75	AVG	P	
3	0.1995	44.97	10.63	55.60	63.63	-8.03	QP	P	
4	0.2040	26.41	10.63	37.04	53.45	-16.41	AVG	P	
5	0.2670	41.61	10.63	52.24	61.21	-8.97	QP	P	
6	0.2670	25.78	10.63	36.41	51.21	-14.80	AVG	P	
7	0.4650	19.39	10.61	30.00	46.60	-16.60	AVG	P	
8	0.4693	33.98	10.61	44.59	56.53	-11.94	QP	P	
9	0.6313	22.48	10.69	33.17	46.00	-12.83	AVG	P	
10	0.6360	33.08	10.69	43.77	56.00	-12.23	QP	P	
11	1.0095	27.78	10.78	38.56	56.00	-17.44	QP	P	
12	1.0183	15.06	10.78	25.84	46.00	-20.16	AVG	P	

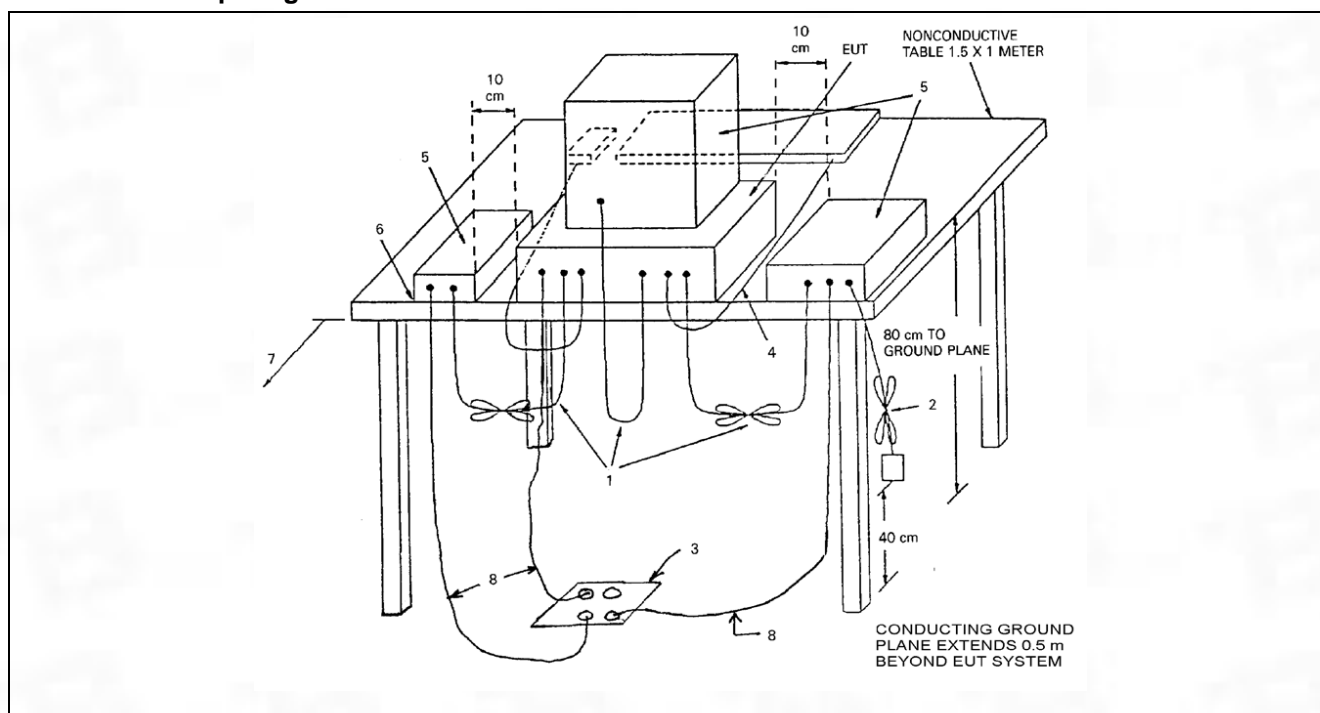
## 5.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B					
Test Method:	ANSI C63.4					
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:

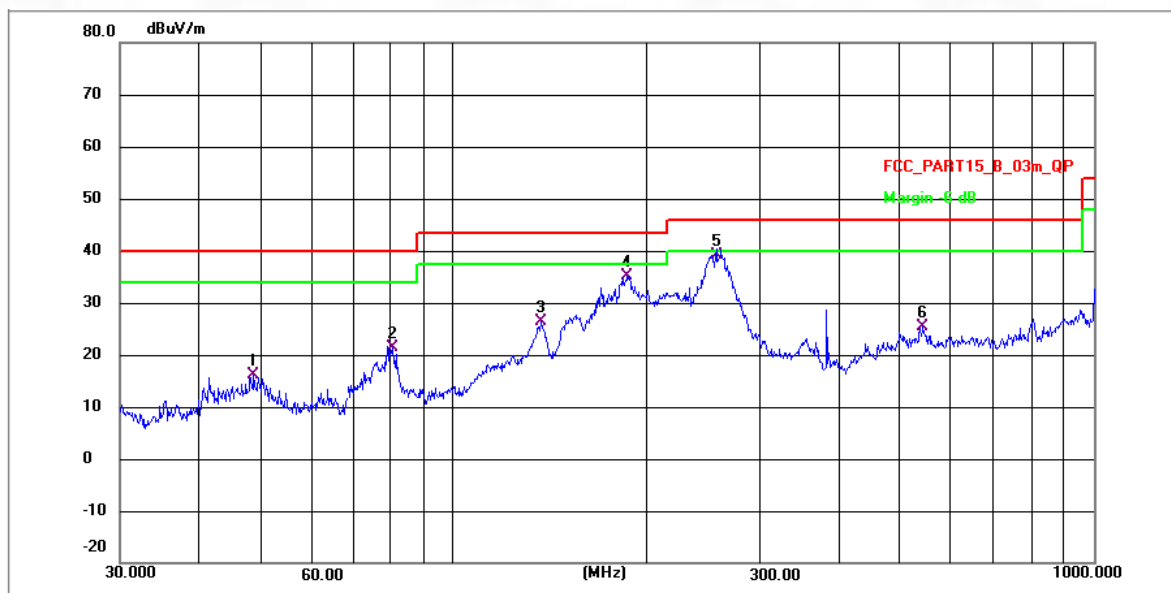
Operating Environment:	
Temperature:	23.5 °C
Humidity:	52.6 %
Atmospheric Pressure:	1010 mbar

### 5.2.2 Test Setup Diagram:



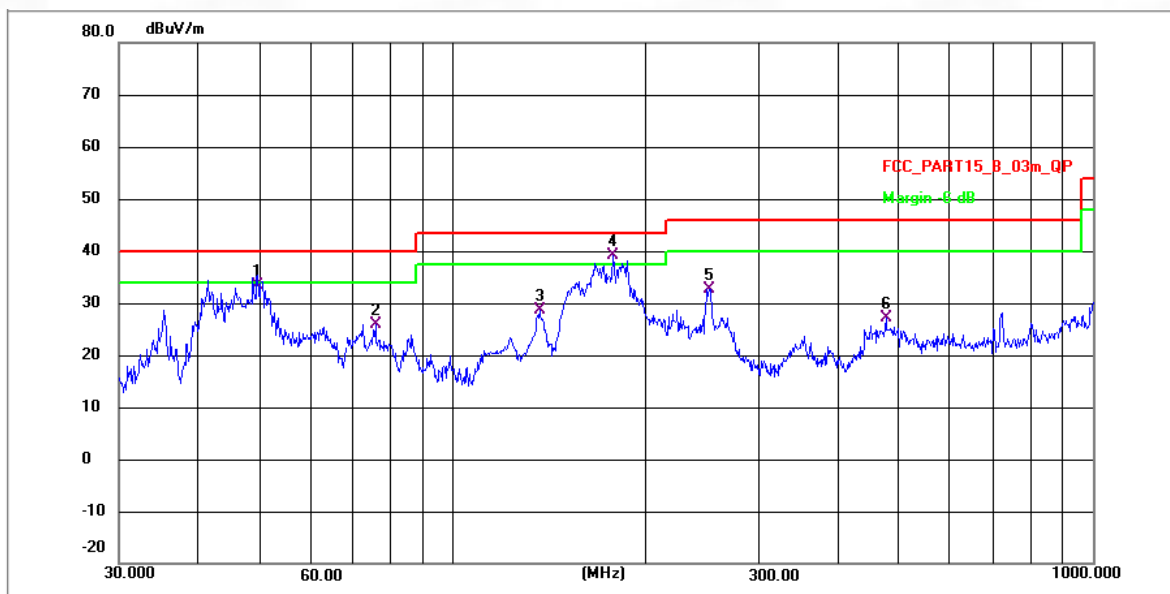
### 5.2.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	48.6719	34.37	-18.29	16.08	40.00	-23.92	QP	P
2	80.3619	39.23	-17.97	21.26	40.00	-18.74	QP	P
3	137.1795	54.25	-27.90	26.35	43.50	-17.15	QP	P
4	187.0958	62.54	-27.45	35.09	43.50	-8.41	QP	P
5 *	256.9712	64.98	-25.79	39.19	46.00	-6.81	QP	P
6	542.3225	46.97	-21.58	25.39	46.00	-20.61	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	49.4460	53.69	-20.33	33.36	40.00	-6.64	QP	P
2	75.9773	45.83	-19.89	25.94	40.00	-14.06	QP	P
3	136.4598	56.44	-27.90	28.54	43.50	-14.96	QP	P
4 *	178.1326	66.54	-27.52	39.02	43.50	-4.48	QP	P
5	251.6212	58.57	-25.84	32.73	46.00	-13.27	QP	P
6	475.4991	48.81	-21.70	27.11	46.00	-18.89	QP	P

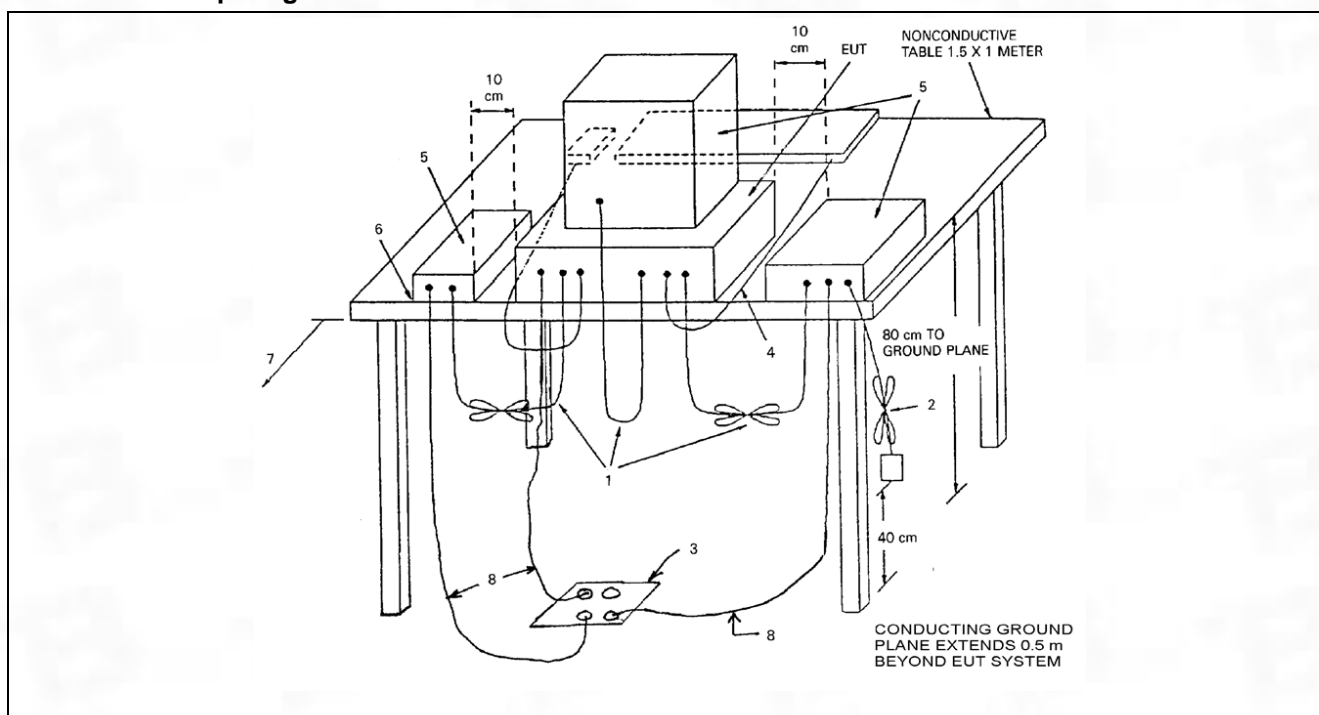
### 5.3 Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B		
Test Method:	ANSI C63.4		
Test Limit:	Frequency of emission (MHz)	Field strength @3m	
		Average (uV/m)	Average (dBuV/m)
	Above 1GHz	500	54
Procedure:	<p>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.</p> <p>Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p>		

#### 5.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.5 °C
Humidity:	52.6 %
Atmospheric Pressure:	1010 mbar

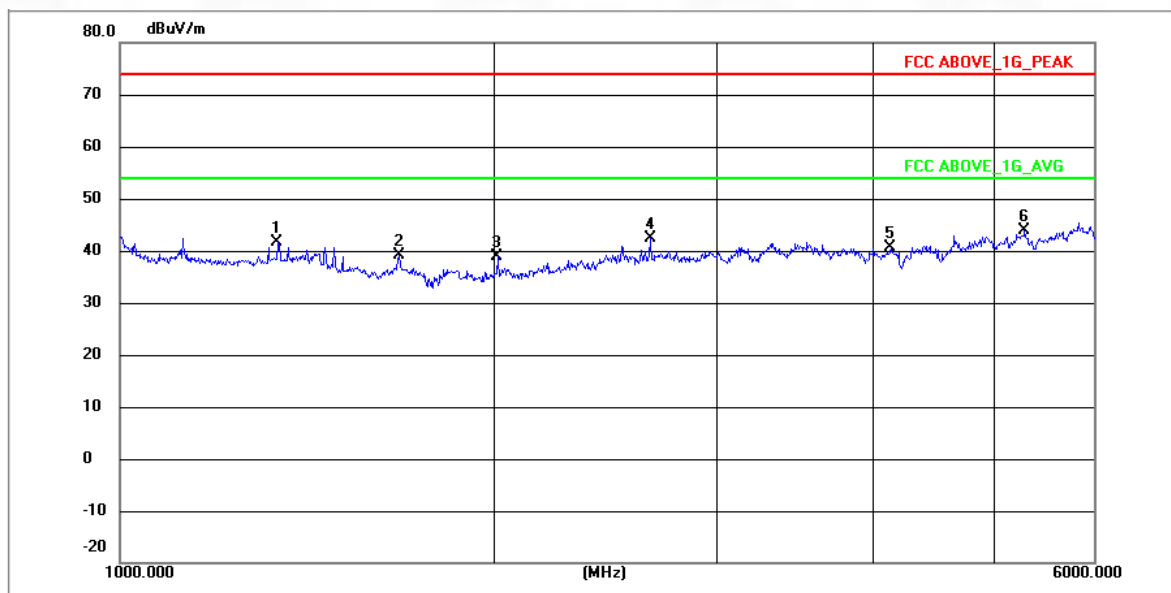
#### 5.3.2 Test Setup Diagram:





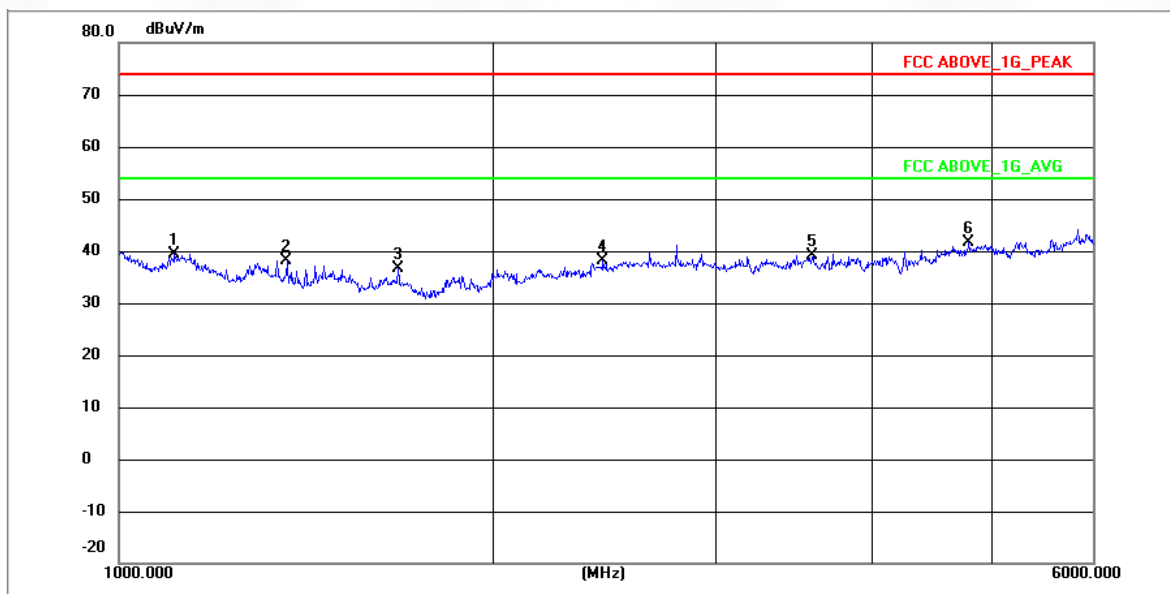
### 5.3.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1338.939	72.47	-30.83	41.64	74.00	-32.36	peak	P
2	1673.258	70.52	-31.44	39.08	74.00	-34.92	peak	P
3	2007.709	69.91	-30.92	38.99	74.00	-35.01	peak	P
4	2653.744	72.46	-30.11	42.35	74.00	-31.65	peak	P
5	4139.218	69.63	-28.94	40.69	74.00	-33.31	peak	P
6 *	5292.741	71.05	-27.12	43.93	74.00	-30.07	peak	P

TM1 / Polarization: Vertical



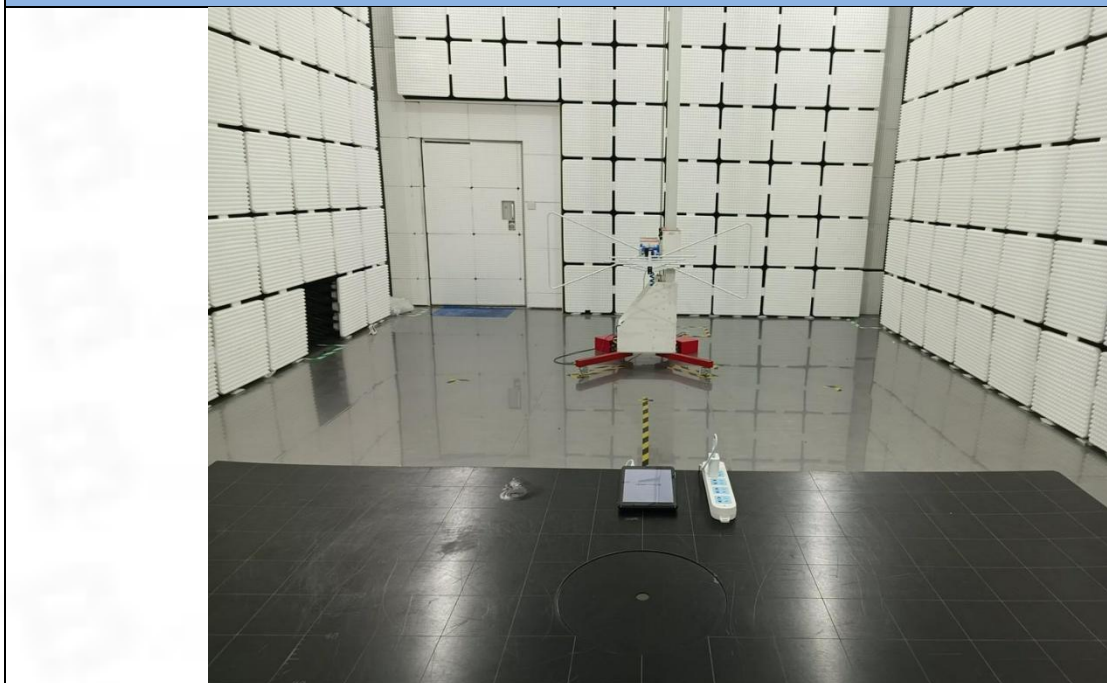
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1108.123	68.88	-29.57	39.31	74.00	-34.69	peak	P
2	1362.413	69.21	-30.96	38.25	74.00	-35.75	peak	P
3	1673.558	68.12	-31.44	36.68	74.00	-37.32	peak	P
4	2436.358	68.47	-30.45	38.02	74.00	-35.98	peak	P
5	3582.608	68.18	-29.05	39.13	74.00	-34.87	peak	P
6 *	4779.735	69.60	-27.99	41.61	74.00	-32.39	peak	P

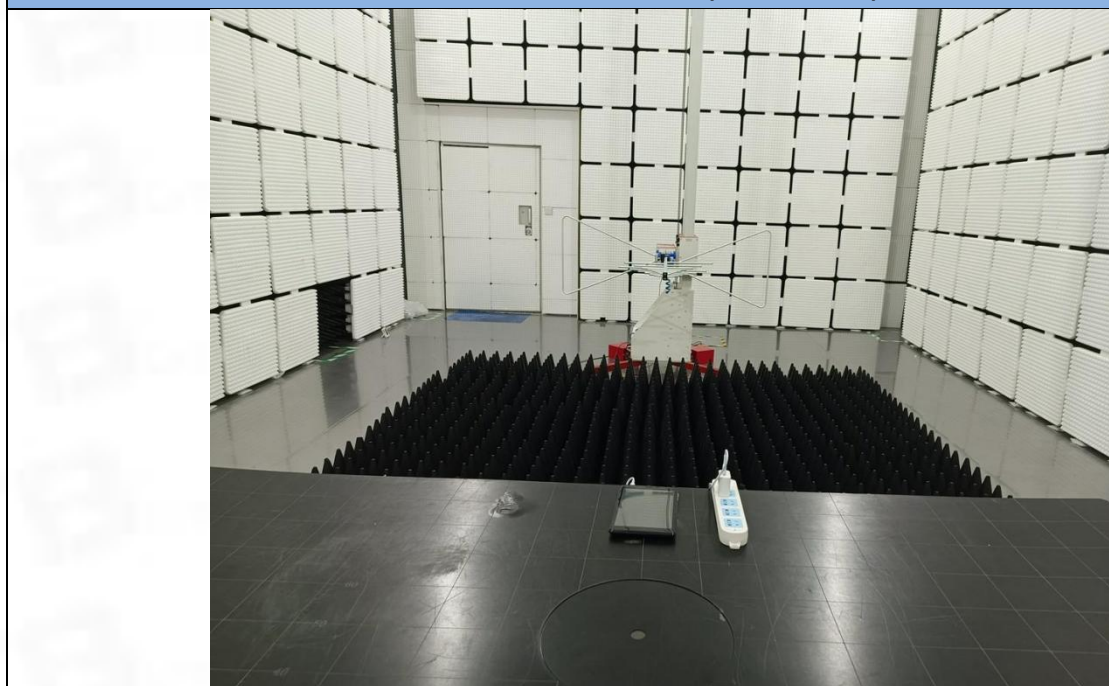
## 6 Test Setup Photos

Conducted emissions on AC mains

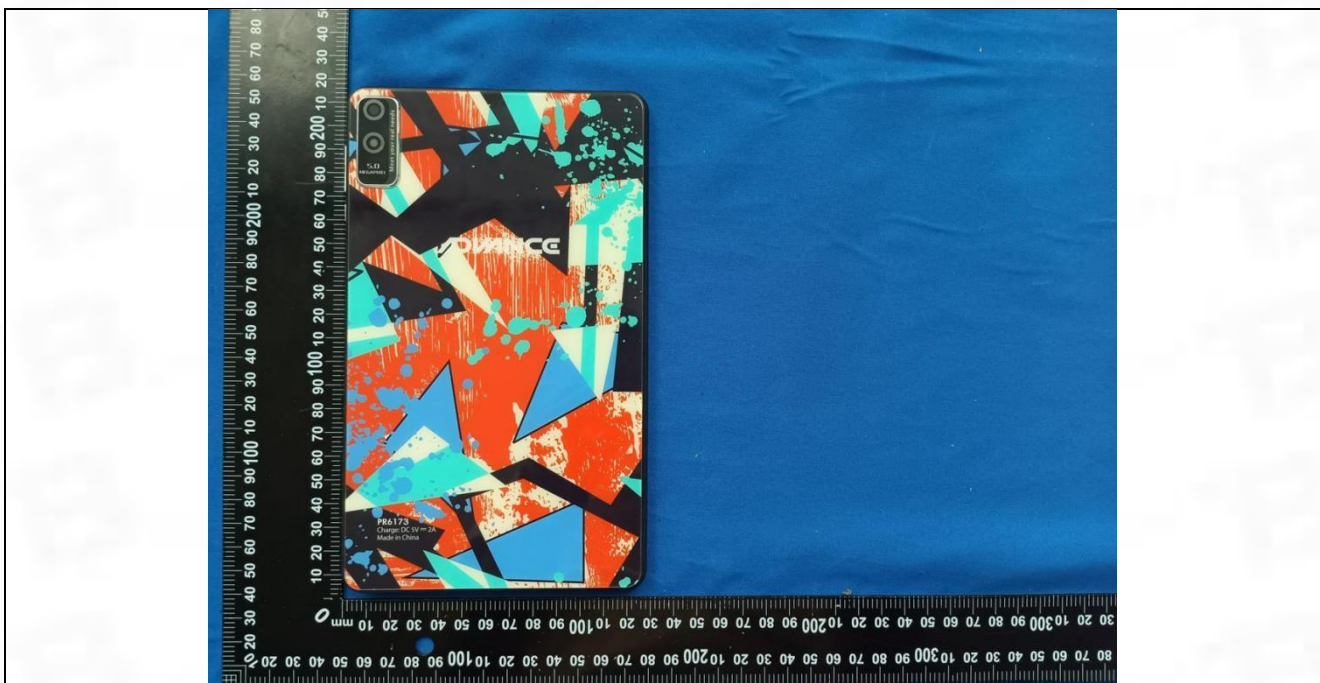
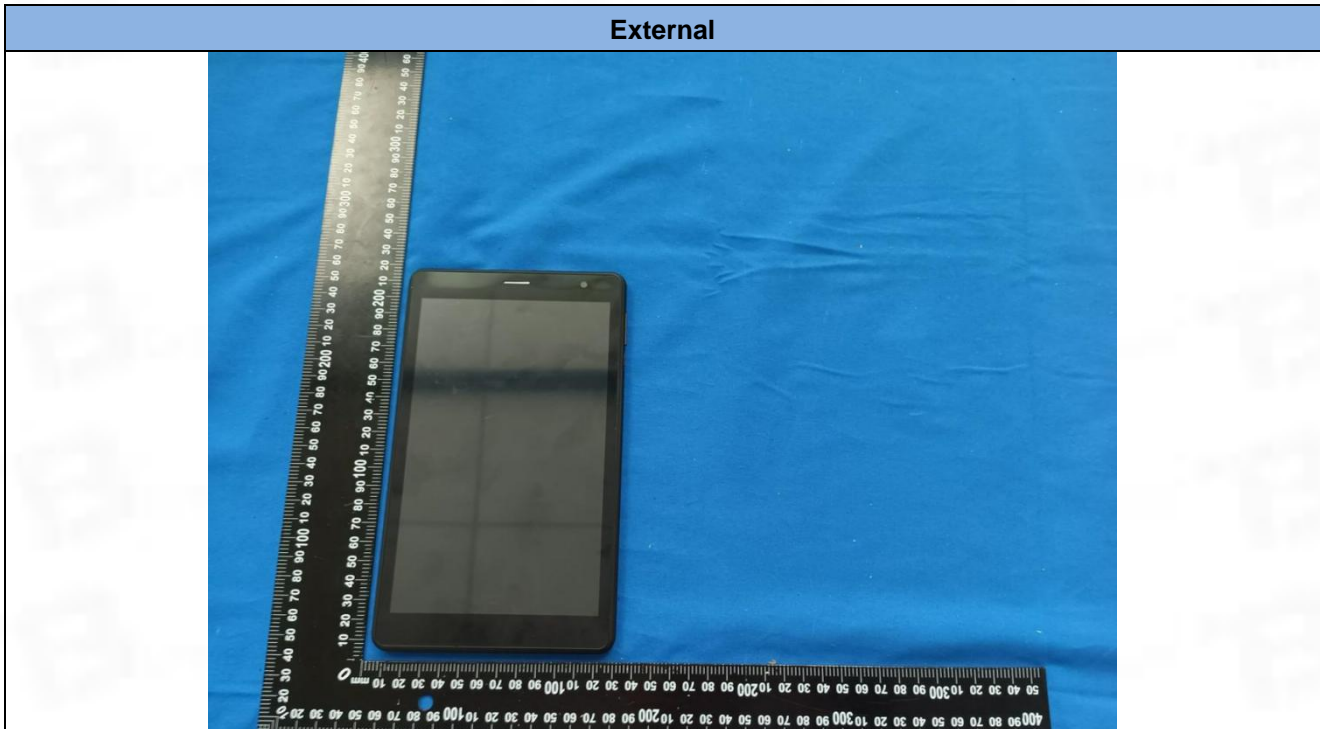


Radiated emissions (Below 1GHz)

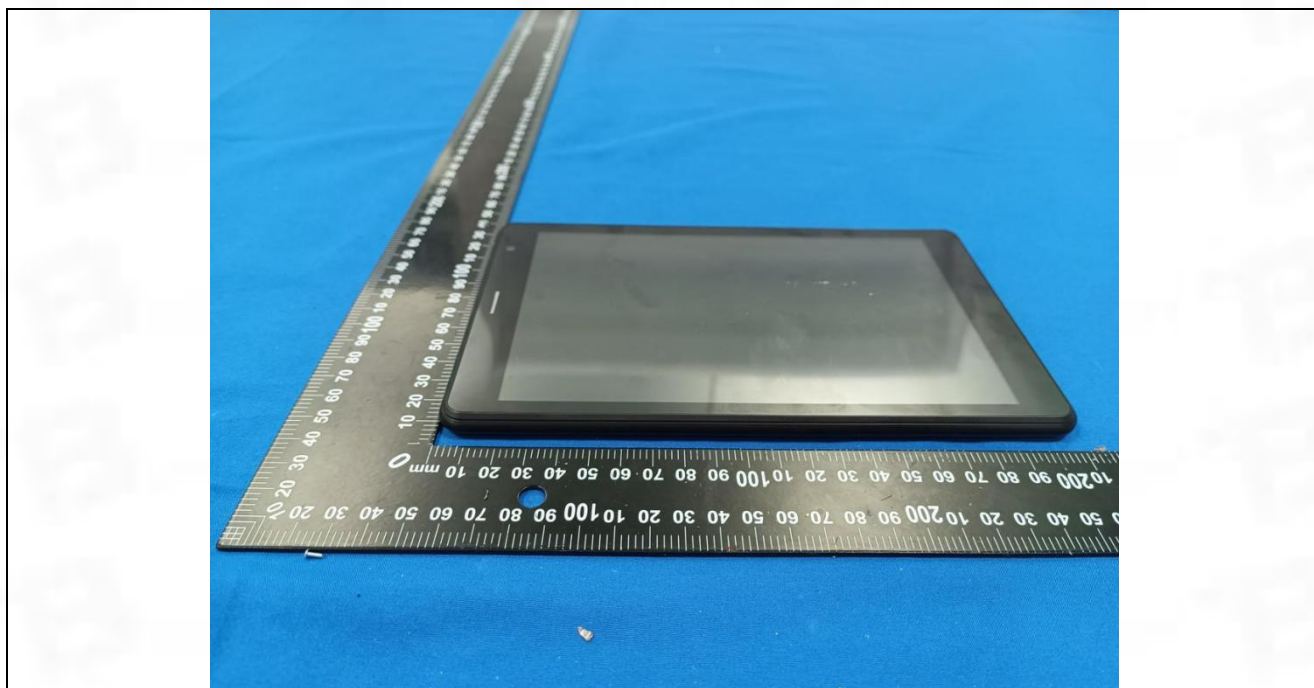


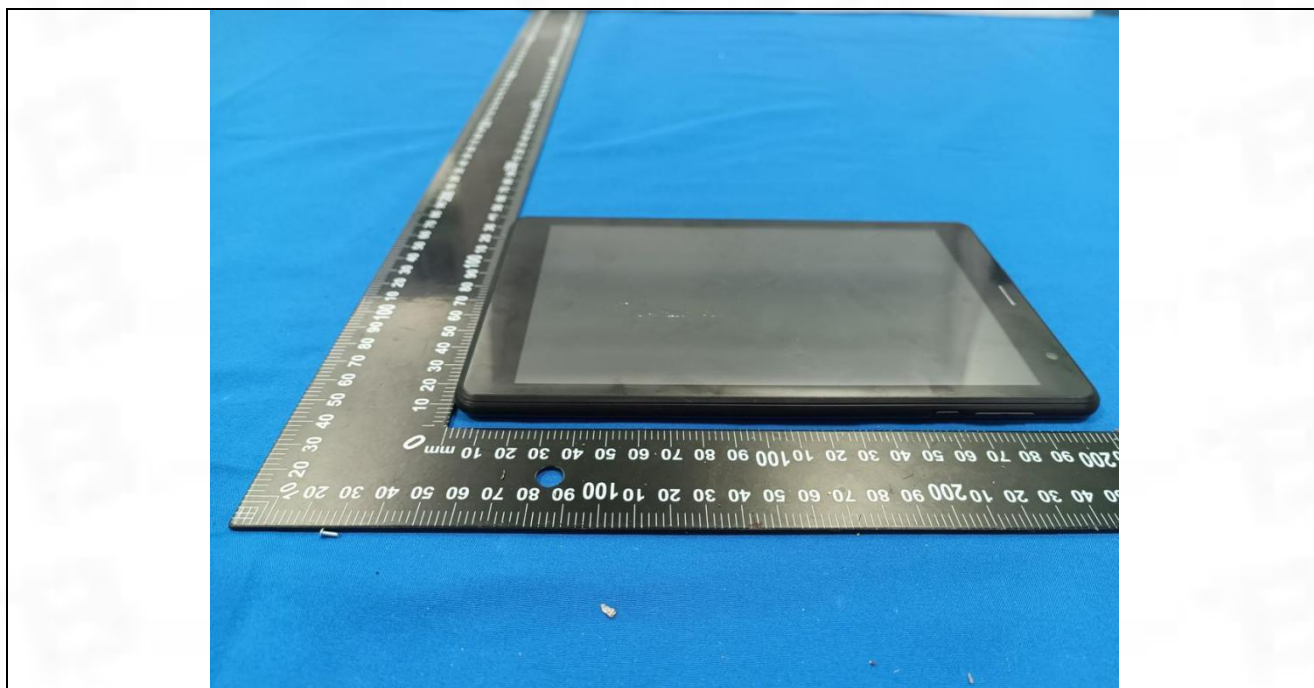
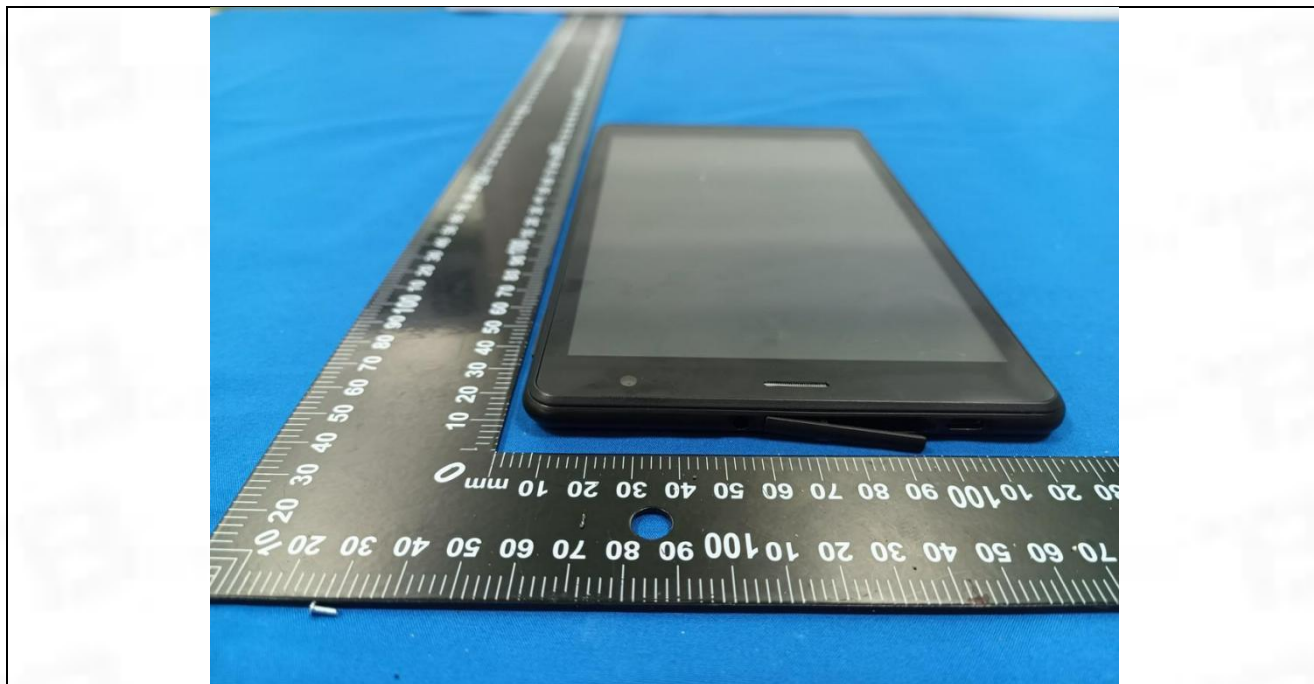
**Radiated emissions (Above 1GHz)**

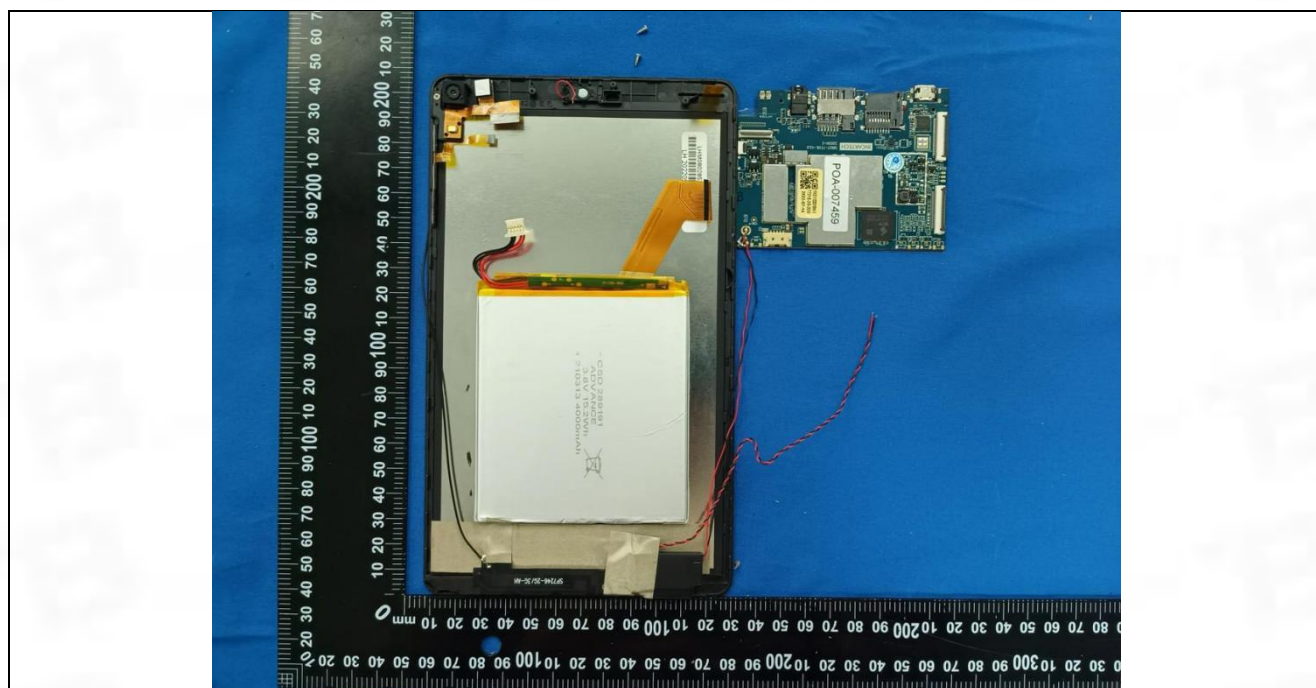
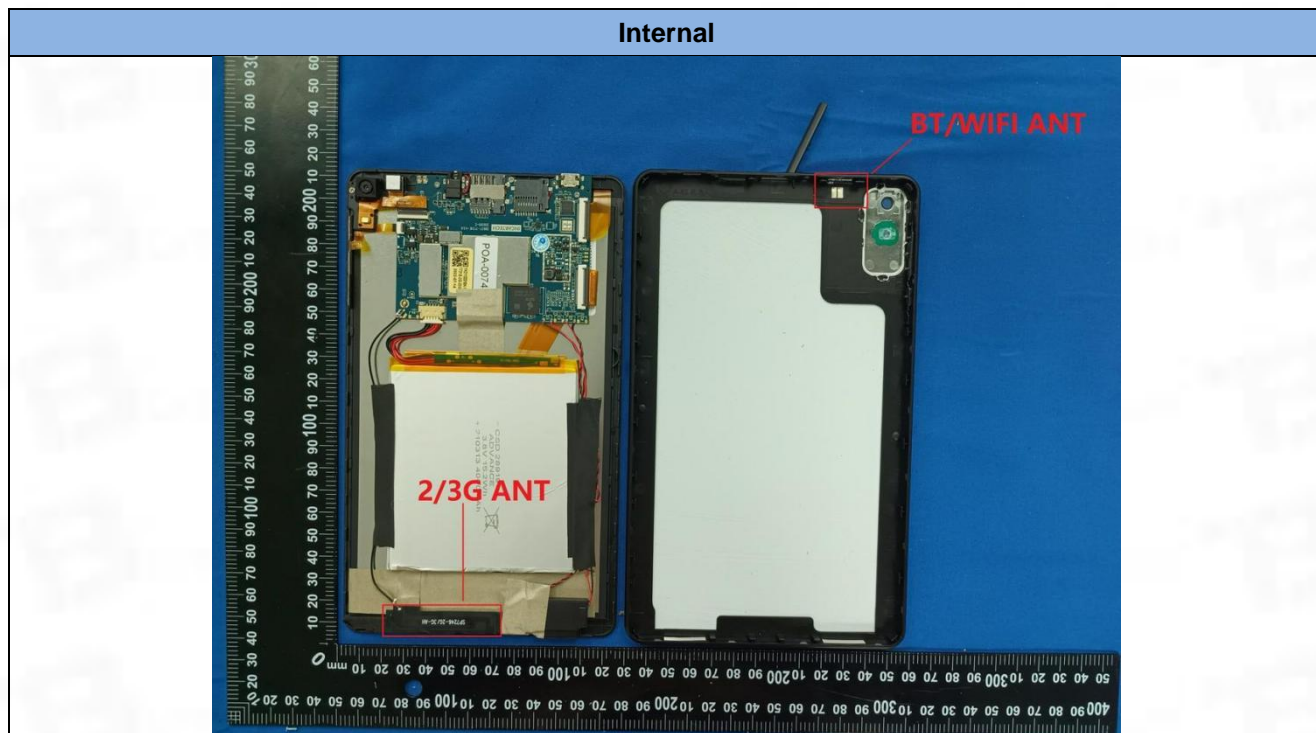
## 7 EUT Constructional Details (EUT Photos)



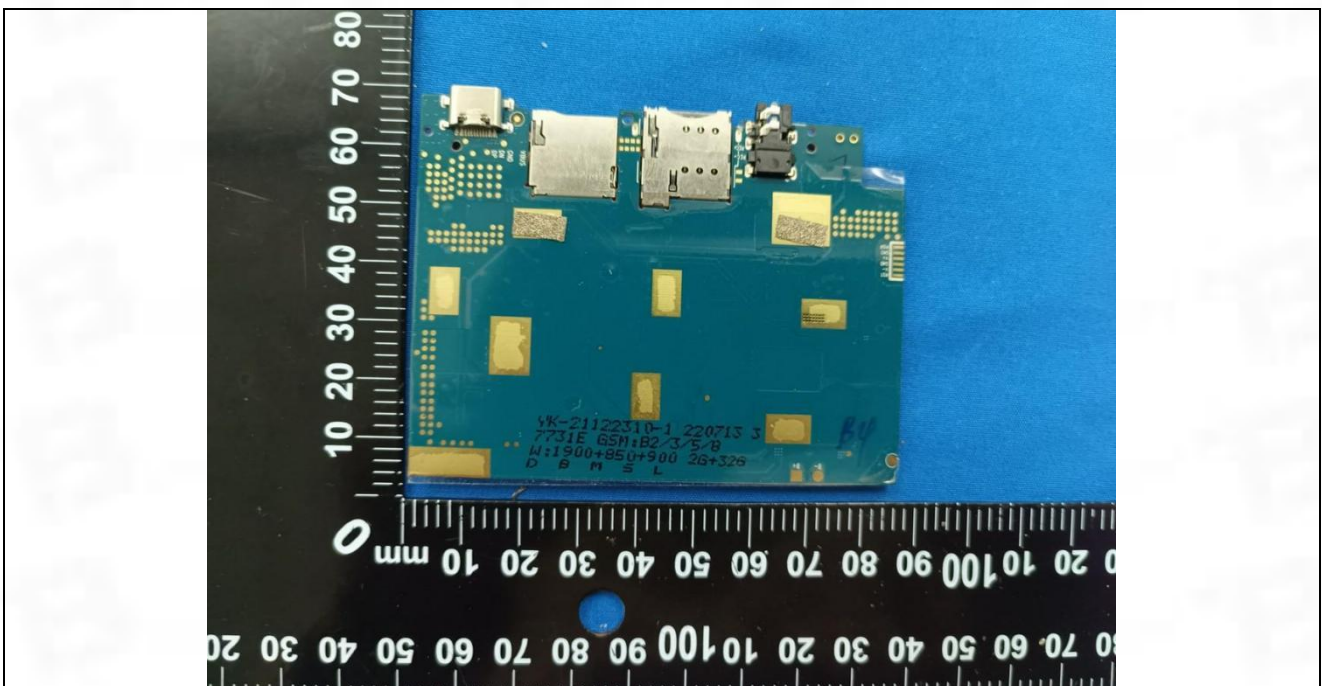


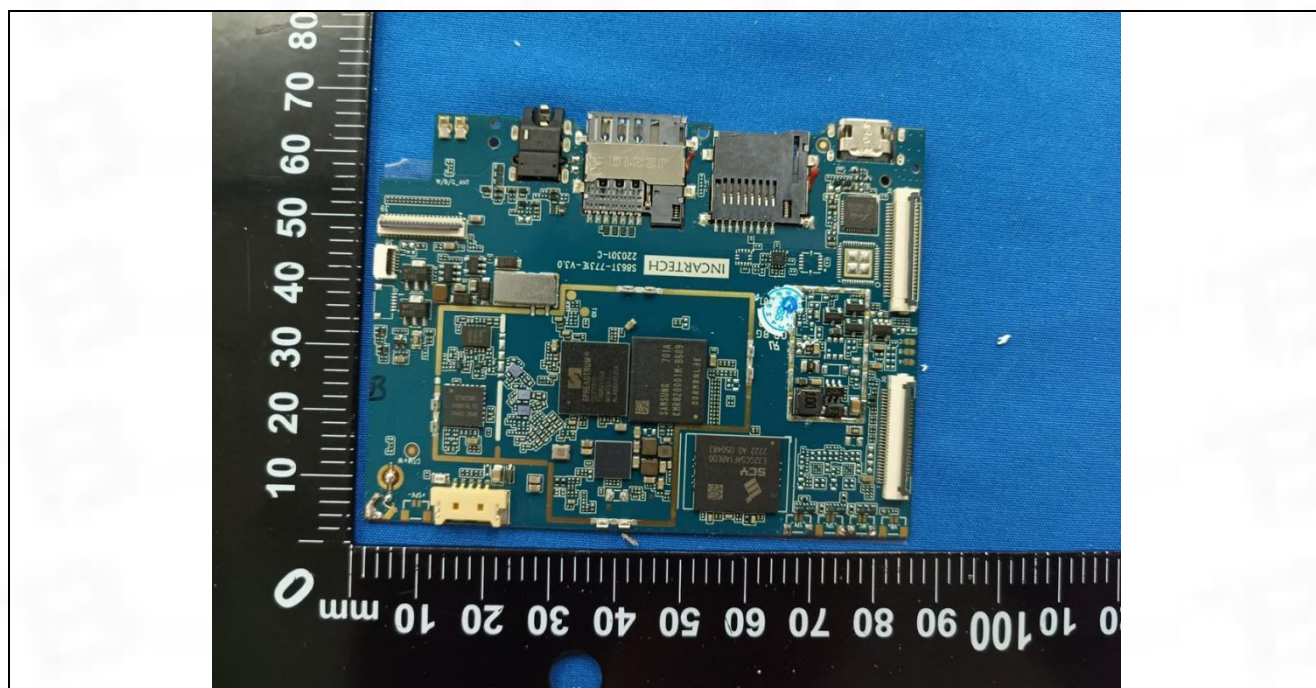
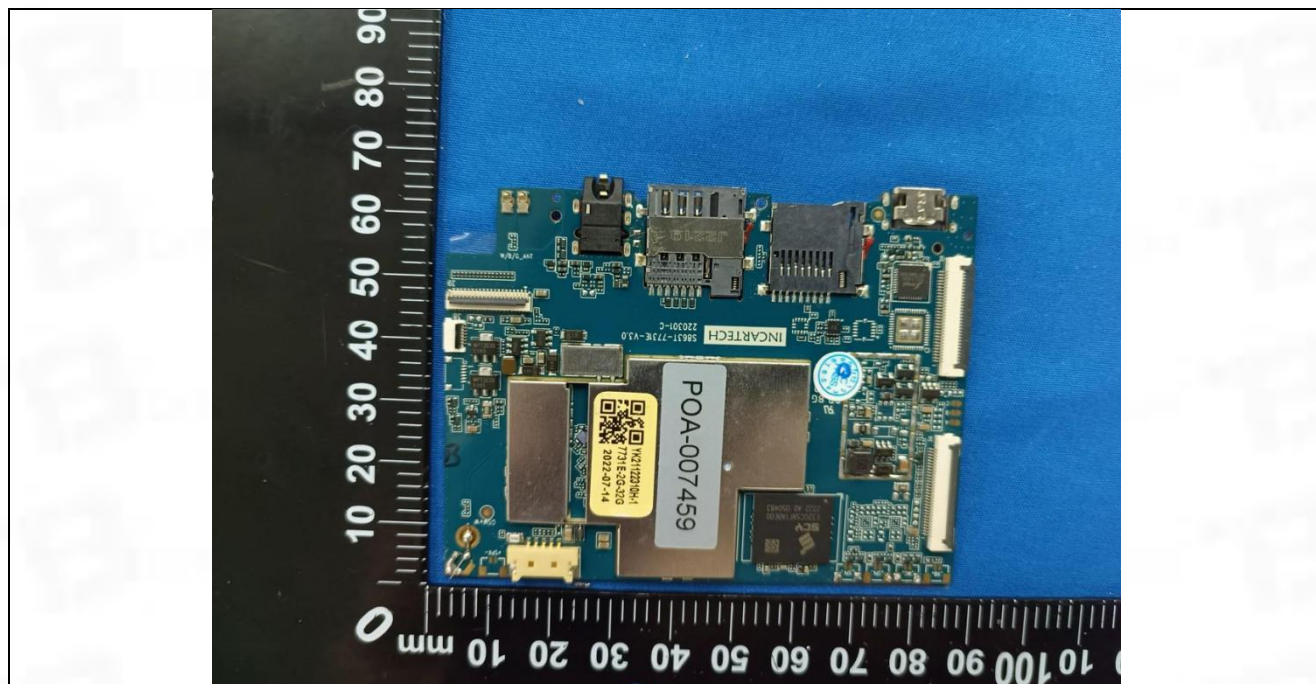














Test Report Number: BTF230324E00901



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