

FCC EMC Test Report



Subject to
Supplier's Declaration of Conformity
Procedure

Product : Smartphone
Trade Mark : CUBOT
Model Number : A40

Prepared for

Shenzhen Huafurui Technology Co., Ltd.
Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road,
Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.
No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen,
Guangdong, China
Tel.: 0755-2320 0050 Website: <http://www.ntek.org.cn>

TEST RESULT CERTIFICATION

Applicant's Name: Shenzhen Huafurui Technology Co., Ltd.
Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building,
Address: No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street,
Longgang District, Shenzhen, P.R. China
Manufacturer's Name.....: Shenzhen Huafurui Technology Co., Ltd.
Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building,
Address: No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street,
Longgang District, Shenzhen, P.R. China

Product description

Product Name.....: Smartphone
Model Number: A40
Standards: 47 CFR FCC part 15 subpart B, 10-1-2024
ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personal only, and shall be noted in the revision of the document.

Test Sample Number: S250314046008
Date of Test:
Date (s) of performance of tests: 17 Mar. 2025 ~ 30 Apr. 2025
Date of Issue: 30 Apr. 2025
Test Result: **Pass**

Testing Engineer

:

Allen. Huang

(Allen Huang)

Technical Manager

:

Sky Zhang

(Sky Zhang)

Authorized Signatory

:

Alex

(Alex)

Table of Contents

Page

1 . TEST SUMMARY	4
1.1 TEST FACILITY	4
1.2 MEASUREMENT UNCERTAINTY	4
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 DESCRIPTION OF TEST SETUP	7
2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	8
2.5 MEASUREMENT INSTRUMENTS LIST	9
2.6 MEASUREMENT SOFTWARE	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz-30MHz)	11
3.1.2 TEST PROCEDURE	11
3.1.3 TEST SETUP	11
3.1.4 EUT OPERATING CONDITIONS	11
3.1.5 TEST RESULTS	12
3.2 RADIATED EMISSION MEASUREMENT	16
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)	16
3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)	16
3.2.3 TEST PROCEDURE	16
3.2.4 TEST SETUP	17
3.2.5 EUT OPERATING CONDITIONS	17
3.2.6 TEST RESULTS (30-1000MHz)	18
3.2.7 TEST RESULTS (Above 1000MHz)	22
4 . EUT TEST PHOTO	26
ATTACHMENT PHOTOGRAPHS OF EUT	28

1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
47 CFR FCC part 15 subpart B, 10-1-2024 ANSI C63.4:2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

Add. : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)
The Certificate Registration Number is L5516

ISED-Registration : The Company Number: 9270A.
CAB identifier: CN0074.

FCC- Accredited : Test Firm Registration Number: 463705
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

Test Item	Measurement Frequency Range	K	U(dB)
Conducted Emission	0.009MHz ~ 0.15MHz	2	3.6
Conducted Emission	0.15MHz ~ 30MHz	2	3.1
Radiated Emission(#1)	30MHz ~ 1000MHz	2	4.9
Radiated Emission(#1)	1000MHz ~ 18000MHz	2	5.1

Revision History

[illegible]

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone	
Model Number	A40	
Additional Model Number(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a Smartphone.	
	Operating frequency:	5 GHz by WIFI (Declaration by Manufacturer)
Based on the application, features, or specification exhibited in User's Manual. More details of EUT technical specification, please refer to the User's Manual.		
Power Source	AC Voltage	
Power Rating	Adapter 1 Model: HJ-0502000W2-US	
	Adapter Rating: Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A, 10.0W Adapter 2 Model: TPA-418G050200UU01 Adapter Rating: Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A, 10.0W Battery Rating: DC 3.87V, 5100mAh, 19.737Wh	

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. All test modes in the table below are tested, the worst case is listed on this report.

Pretest Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + TF Playing
Mode 3	Data Transmission

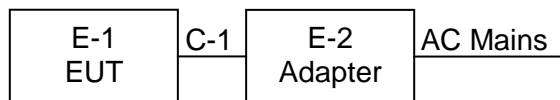
For Conducted Test

Final Test Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + TF Playing
Mode 3	Data Transmission

For Radiated Test

Final Test Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + TF Playing
Mode 3	Data Transmission

2.3 DESCRIPTION OF TEST SETUP



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Smartphone	CUBOT	A40	N/A	EUT
E-2	Adapter 1	HuaJin	HJ-0502000W2-US	N/A	EUT
	Adapter 2	TIANYIN	TPA-418G050200UU01	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	100cm	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST

Item	Name of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Single Phase LISN	R&S	ENV216	101490	Apr. 25, 2024	Apr. 24, 2025	1 year
2	Single Phase LISN	R&S	ENV216	101313	Apr. 25, 2024	Apr. 24, 2025	1 year
3	Three-Phase LISN	SCHWARZBECK	NNLK 8129	8129245	Apr. 25, 2024	Apr. 24, 2025	1 year
4	Low Frequency Cable	N/A	R-03	N/A	Apr. 25, 2024	Apr. 24, 2027	3 years
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983704	Apr. 26, 2024	Apr. 25, 2027	3 years
6	EMI Test Receiver	R&S	ESCI	101160	Apr. 26, 2024	Apr. 25, 2025	1 year
7	EMI Test Receiver	R&S	ESPI3	101417	May 15, 2024	May 14, 2025	1 year
8	EMI Test Receiver	R&S	ESPI3	100145	Apr. 26, 2024	Apr. 25, 2025	1 year
9	DC-AMN LISN	SCHWARZBECK	PVDC 8301	8301-00117	Apr. 26, 2024	Apr. 25, 2025	1 year
10	Single Phase LISN	R&S	ENV216	102849	Apr. 26, 2024	Apr. 25, 2025	1 year
11	Single Phase LISN	R&S	ENV216	102827	Apr. 26, 2024	Apr. 25, 2025	1 year

2.5.2 RADIATED TEST

Item	Name of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	3m Anechoic Chamber	N/A	9*6*6	N/A	Jun. 07, 2024	Jun. 06, 2027	3 years
2	3m Anechoic Chamber	N/A	9*6*6	N/A	Jun. 18, 2024	Jun. 17, 2027	3 years
3	EMI Test Receiver	R&S	ESPI7	101318	Apr. 26, 2024 Apr. 17, 2025	Apr. 25, 2025 Apr. 16, 2026	1 year
4	Bilog Antenna	TESEQ	CBL6111D	31216	May 12, 2024	May 11, 2025	1 year
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	Apr. 26, 2024	Apr. 25, 2027	3 years
6	Cable	Talent Microwave	A81-NWMS MAM-12M	21120897	Apr. 26, 2024	Apr. 25, 2027	3 years
7	Cable	Talent Microwave	A81-NMNM -10M	24012011	Apr. 26, 2024	Apr. 25, 2027	3 years
8	Cable	Talent Microwave	A81-NMNM -10M	22084896	Apr. 26, 2024	Apr. 25, 2027	3 years
9	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	675	May 18, 2024 Apr. 29, 2025	May 17, 2025 Apr. 28, 2026	1 year
10	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	May 25, 2024	May 24, 2025	1 year
11	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	586	May 12, 2024 Apr. 24, 2025	May 11, 2025 Apr. 23, 2026	1 year
12	Cable	Talent Microwave	A81-NMNM -2M	22084895	Apr. 26, 2024	Apr. 25, 2027	3 years
13	Attenuator	Eastsheep	5W-N-JK-6 G-6DB	N/A	Apr. 25, 2024 Apr. 17, 2025	Apr. 24, 2025 Apr. 16, 2026	1 year
14	Attenuator	Eastsheep	5W-N-JK-6 G-6DB	1#	Jul. 31, 2024	Jul. 30, 2025	1 year
15	Attenuator	Eastsheep	5W-N-JK-6 G-6DB	2#	Jul. 31, 2024	Jul. 30, 2025	1 year
16	Attenuator	Eastsheep	5W-N-JK-6 G-6DB	3#	Jul. 31, 2024	Jul. 30, 2025	1 year
17	Broadband Horn Antenna	EM	EM-AH-101 80	201107140 2	May 12, 2024	May 11, 2027	3 years
18	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2816	May 18, 2024	May 17, 2027	3 years
19	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2817	May 12, 2024	May 11, 2027	3 years

20	Spectrum Analyzer	Keysight	N9020A	MY53280244	Apr. 25, 2024 Apr. 16, 2025	Apr. 24, 2025 Apr. 15, 2026	1 year
21	Spectrum Analyzer	Agilent	E4440A	MY41000130	Apr. 26, 2024 Apr. 24, 2025	Apr. 25, 2025 Apr. 23, 2026	1 year
22	Pre-Amplifier	EMC	EMC05183 5SE	980246	Apr. 25, 2024 Apr. 17, 2025	Apr. 24, 2025 Apr. 16, 2026	1 year
23	PREAMPLIFIER	Agilent	8449B	30008A01520	Apr. 26, 2024 Apr. 16, 2025	Apr. 25, 2025 Apr. 15, 2026	1 year
24	Low Noise Amplifier	B&Z	BZ-P540-550 850-452727	16476-11729	Apr. 25, 2024 Apr. 17, 2025	Apr. 24, 2025 Apr. 16, 2026	1 year
25	Cable	Keysight	A40-2.92M 2.92M-2M	1808041	Apr. 26, 2024	Apr. 25, 2027	3 years
26	Broadband Horn Antenna	SCHWARZB ECK	BBHA 9170	803	May 12, 2024	May 11, 2027	3 years

2.6 MEASUREMENT SOFTWARE

CONDUCTED TEST		
Software name	Manufacturer	Version number
EZ-EMC_CE	Farad	AIT-03A
RADIATED TEST		
Software name	Manufacturer	Version number
EZ-EMC_RE	Farad	EMEC-3A1+

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz-30MHz)

Frequency Range (MHz)	<input type="checkbox"/> Class A (dB μ V)		<input checked="" type="checkbox"/> Class B (dB μ V)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 - 5.0	73.00	60.00	56.00	46.00
5.0 - 30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

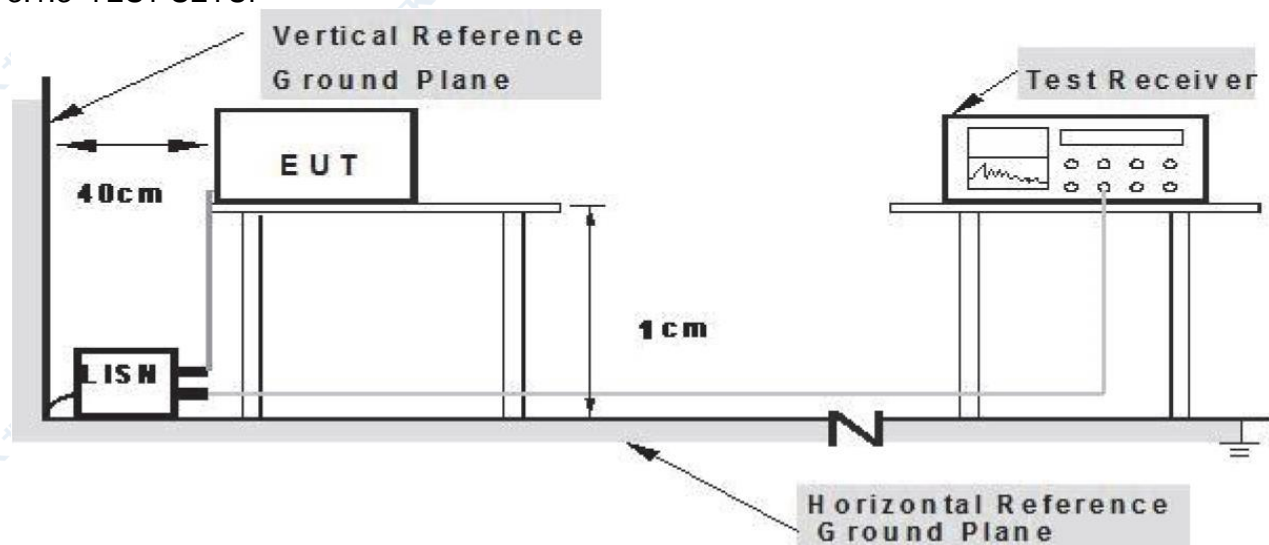
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.01 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 1 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



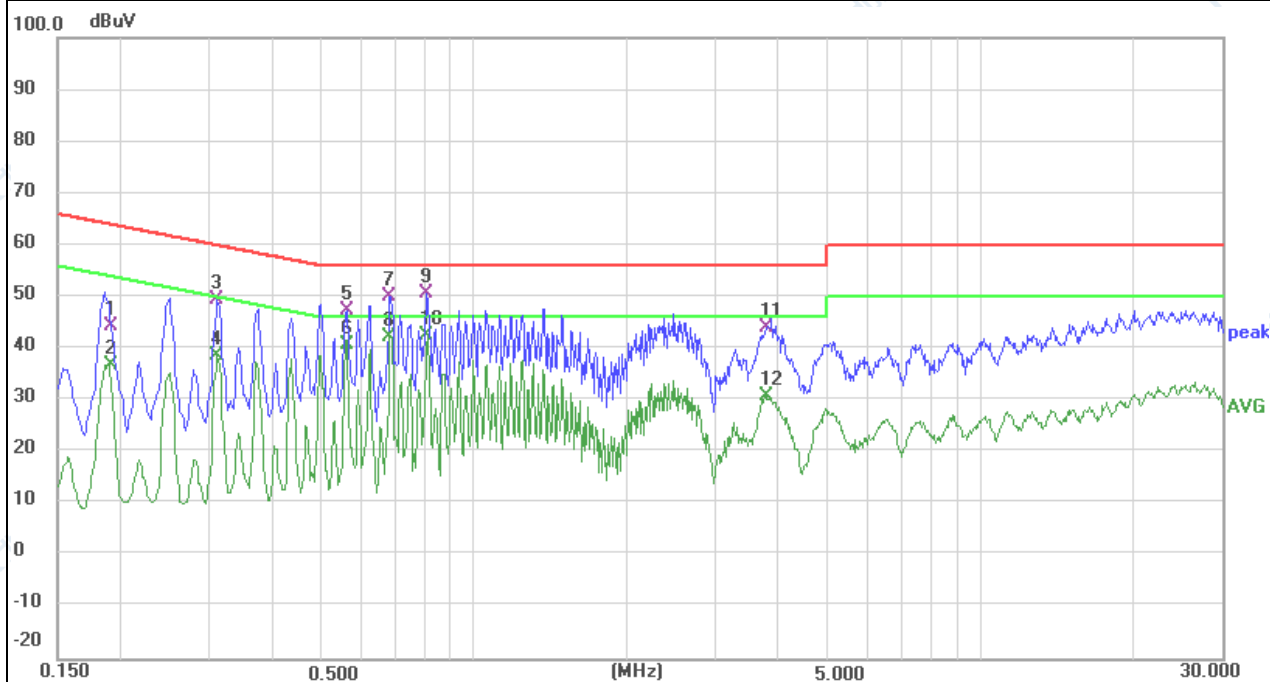
**Note: 1. Support units were connected to second LISN.
2. Both of LISN's (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

3.1.5 TEST RESULTS

EUT:	Smartphone	Model Name:	A40
Temperature:	24.8°C	Relative Humidity:	37.1%RH
Pressure:	1010hPa	Test Date:	2025-03-20
Test Mode:	Charging + TF Playing	Phase:	L
Test Voltage:	AC 120V/60Hz(Adapter 1)		



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1914	34.36	10.07	44.43	63.98	-19.55	QP	P	
2	0.1914	26.88	10.07	36.95	53.98	-17.03	AVG	P	
3	0.3100	39.27	10.31	49.58	59.97	-10.39	QP	P	
4	0.3100	28.42	10.31	38.73	49.97	-11.24	AVG	P	
5	0.5620	36.45	10.81	47.26	56.00	-8.74	QP	P	
6	0.5620	30.00	10.81	40.81	46.00	-5.19	AVG	P	
7	0.6820	39.06	11.07	50.13	56.00	-5.87	QP	P	
8	0.6820	31.07	11.07	42.14	46.00	-3.86	AVG	P	
9	0.8059	39.24	11.34	50.58	56.00	-5.42	QP	P	
10 *	0.8059	31.25	11.34	42.59	46.00	-3.41	AVG	P	
11	3.7900	34.02	9.97	43.99	56.00	-12.01	QP	P	
12	3.7900	21.02	9.97	30.99	46.00	-15.01	AVG	P	

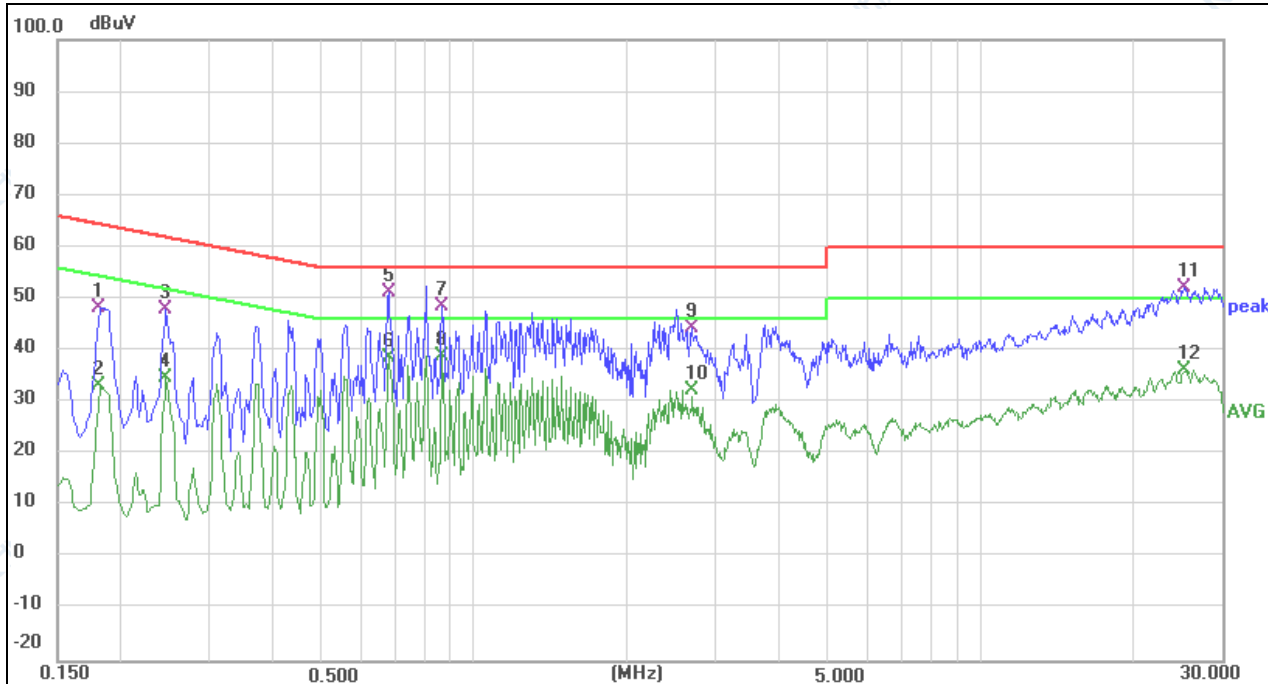
Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	24.8°C	Relative Humidity:	37.1%RH
Pressure:	1010hPa	Test Date:	2025-03-20
Test Mode:	Charging + TF Playing	Phase:	N
Test Voltage:	AC 120V/60Hz(Adapter 1)		



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1819	38.72	9.48	48.20	64.40	-16.20	QP	P	
2	0.1819	23.69	9.48	33.17	54.40	-21.23	AVG	P	
3	0.2460	38.46	9.61	48.07	61.89	-13.82	QP	P	
4	0.2460	25.07	9.61	34.68	51.89	-17.21	AVG	P	
5 *	0.6780	40.88	10.34	51.22	56.00	-4.78	QP	P	
6	0.6780	28.30	10.34	38.64	46.00	-7.36	AVG	P	
7	0.8660	37.71	10.74	48.45	56.00	-7.55	QP	P	
8	0.8660	28.25	10.74	38.99	46.00	-7.01	AVG	P	
9	2.6860	35.10	9.12	44.22	56.00	-11.78	QP	P	
10	2.6860	23.19	9.12	32.31	46.00	-13.69	AVG	P	
11	25.2900	39.46	12.58	52.04	60.00	-7.96	QP	P	
12	25.2900	23.72	12.58	36.30	50.00	-13.70	AVG	P	

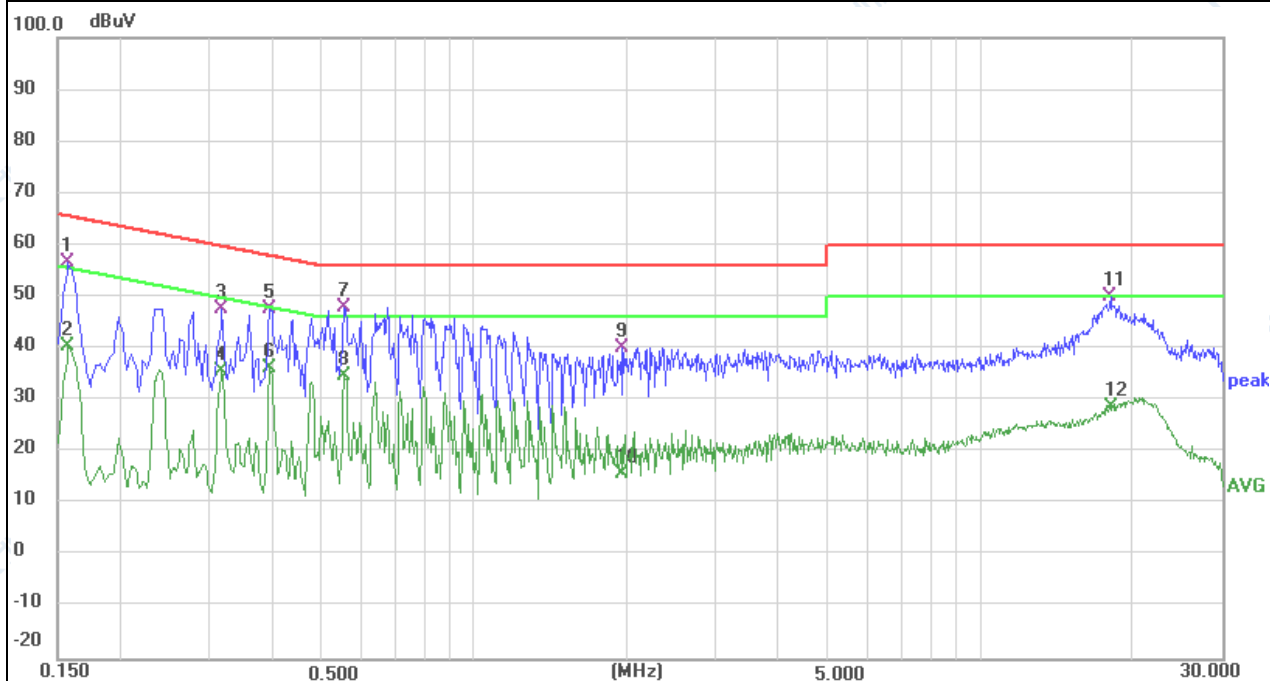
Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	24.8°C	Relative Humidity:	37.1%RH
Pressure:	1010hPa	Test Date:	2025-03-20
Test Mode:	Charging + TF Playing	Phase:	L
Test Voltage:	AC 120V/60Hz(Adapter 2)		



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1580	46.52	10.02	56.54	65.57	-9.03	QP	P	
2	0.1580	30.47	10.02	40.49	55.57	-15.08	AVG	P	
3	0.3180	37.47	10.33	47.80	59.76	-11.96	QP	P	
4	0.3180	25.18	10.33	35.51	49.76	-14.25	AVG	P	
5	0.3940	37.14	10.47	47.61	57.98	-10.37	QP	P	
6	0.3940	25.75	10.47	36.22	47.98	-11.76	AVG	P	
7 *	0.5540	37.07	10.79	47.86	56.00	-8.14	QP	P	
8	0.5540	24.02	10.79	34.81	46.00	-11.19	AVG	P	
9	1.9540	26.55	13.71	40.26	56.00	-15.74	QP	P	
10	1.9540	2.08	13.71	15.79	46.00	-30.21	AVG	P	
11	18.0459	37.54	12.40	49.94	60.00	-10.06	QP	P	
12	18.1860	16.26	12.42	28.68	50.00	-21.32	AVG	P	

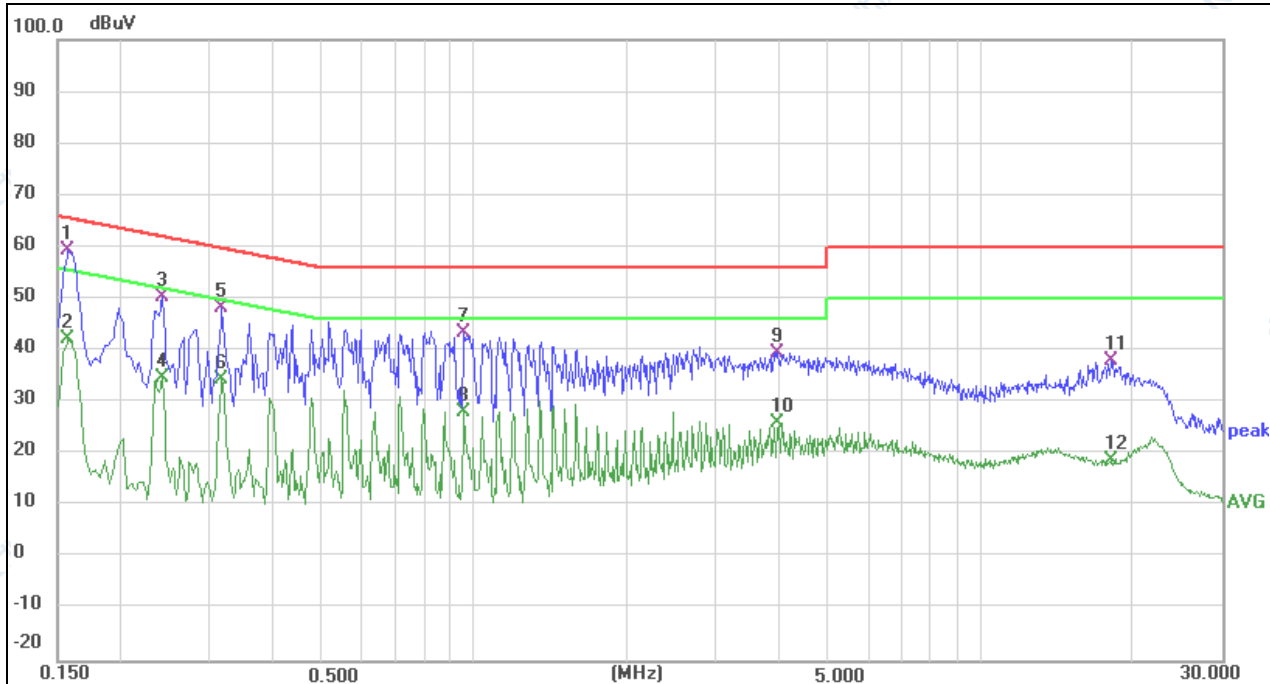
Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	24.8°C	Relative Humidity:	37.1%RH
Pressure:	1010hPa	Test Date:	2025-03-20
Test Mode:	Charging + TF Playing	Phase:	N
Test Voltage:	AC 120V/60Hz(Adapter 2)		



No.	Frequency (MHz)	Reading ()	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1580	49.92	9.46	59.38	65.57	-6.19	QP	P	
2	0.1580	32.72	9.46	42.18	55.57	-13.39	AVG	P	
3	0.2420	40.77	9.59	50.36	62.03	-11.67	QP	P	
4	0.2420	25.18	9.59	34.77	52.03	-17.26	AVG	P	
5	0.3180	38.44	9.73	48.17	59.76	-11.59	QP	P	
6	0.3180	24.65	9.73	34.38	49.76	-15.38	AVG	P	
7	0.9580	32.42	10.93	43.35	56.00	-12.65	QP	P	
8	0.9580	17.14	10.93	28.07	46.00	-17.93	AVG	P	
9	3.9820	30.34	9.23	39.57	56.00	-16.43	QP	P	
10	3.9820	16.81	9.23	26.04	46.00	-19.96	AVG	P	
11	18.1940	26.55	11.62	38.17	60.00	-21.83	QP	P	
12	18.1940	7.23	11.62	18.85	50.00	-31.15	AVG	P	

Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	At 3m	
	<input type="checkbox"/> Class A (dB μ V/m)	<input checked="" type="checkbox"/> Class B (dB μ V/m)
30 ~ 88	49.5	40.0
88 ~ 216	53.9	43.5
216 ~ 960	56.9	46.0
960 ~ 1000	60.0	54.0

3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	At 3m			
	<input type="checkbox"/> Class A (dB μ V/m)		<input checked="" type="checkbox"/> Class B (dB μ V/m)	
	Average	Peak	Average	Peak
Above 1000	60	80	54	74

Note:

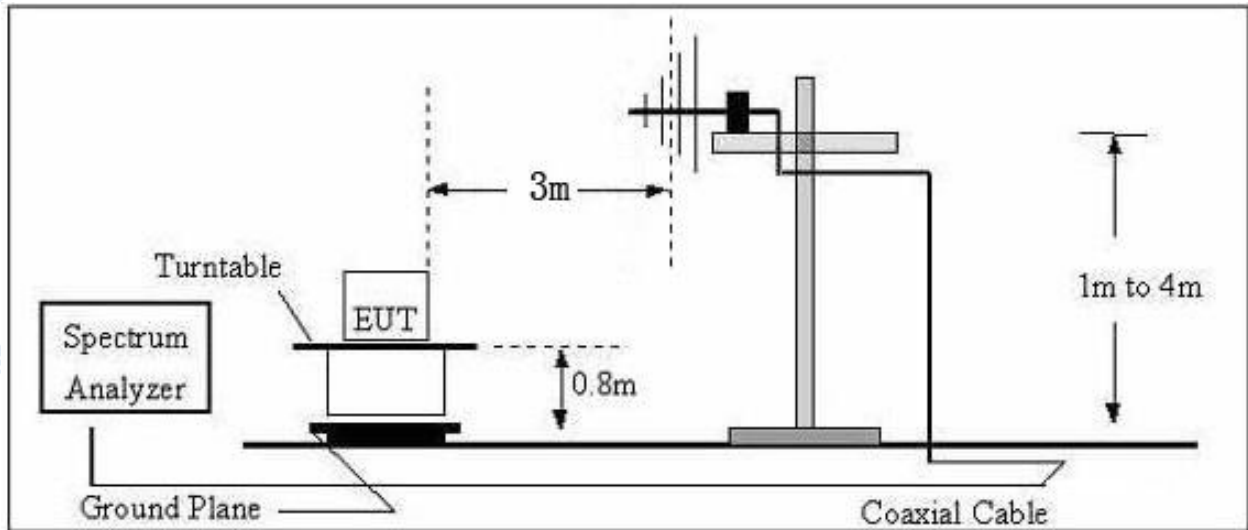
- (1) The limit for radiated test was performed according to as following: FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB μ V/m)=20log Emission level (μ V/m).

3.2.3 TEST PROCEDURE

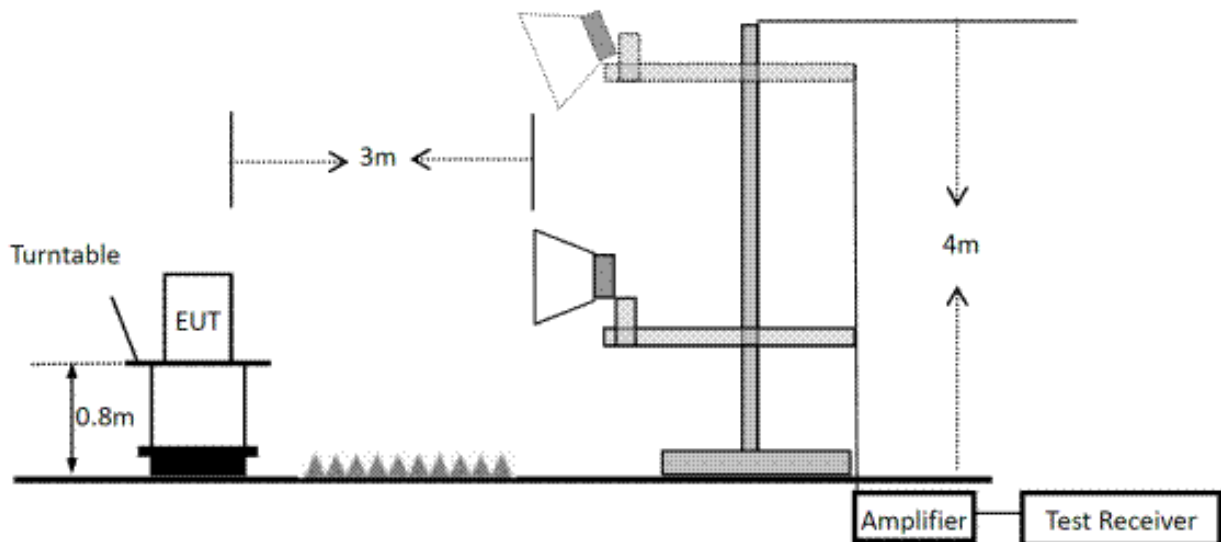
- a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz

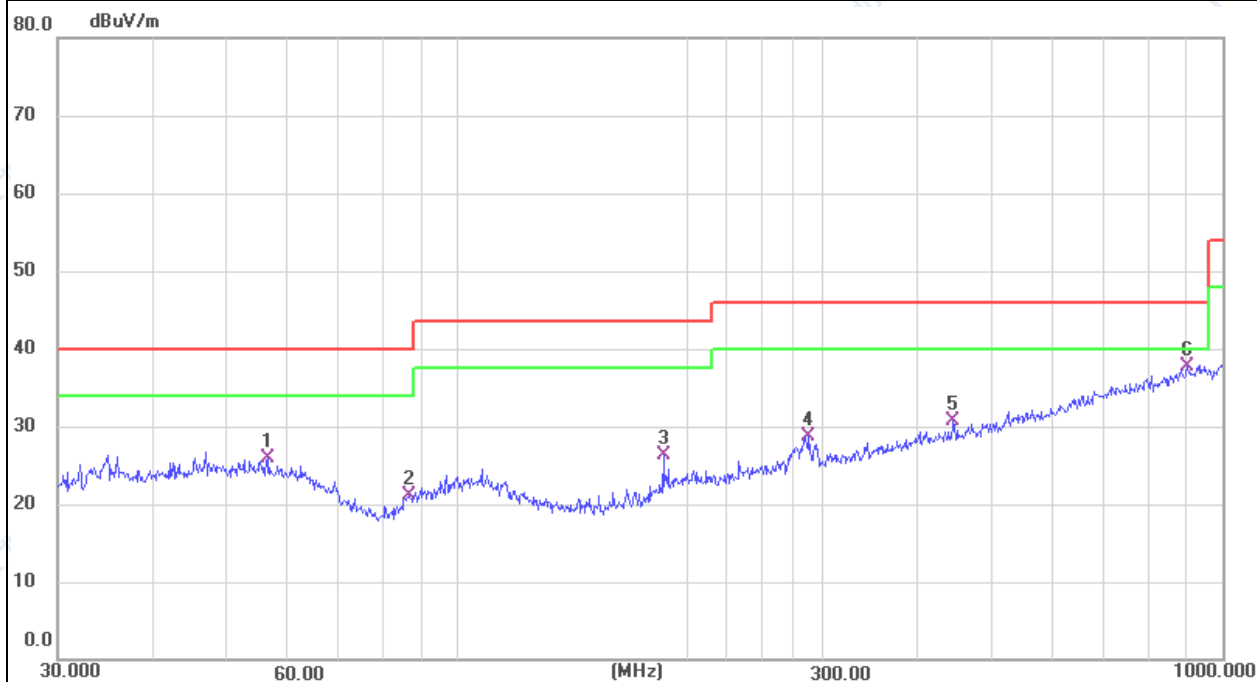


3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (30-1000MHz)

EUT:	Smartphone	Model Name:	A40
Temperature:	25.3℃	Relative Humidity:	56%RH
Pressure:	1010hPa	Test Date:	2025-03-19
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz(Adapter 1)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1	56.5929	6.57	19.30	25.87	40.00	-14.13	QP	P		
2	86.5029	6.20	14.86	21.06	40.00	-18.94	QP	P		
3	185.7882	9.41	16.86	26.27	43.50	-17.23	QP	P		
4	287.9904	8.59	20.17	28.76	46.00	-17.24	QP	P		
5	444.8514	7.01	23.67	30.68	46.00	-15.32	QP	P		
6 *	900.1473	6.76	31.00	37.76	46.00	-8.24	QP	P		

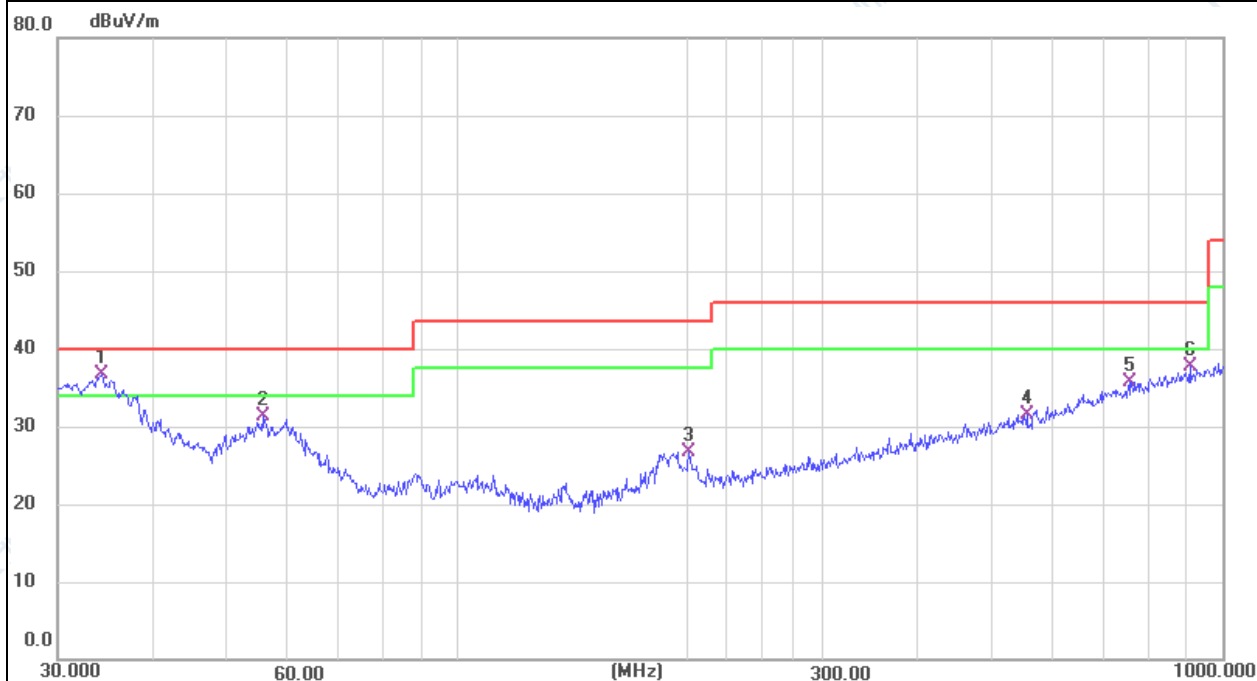
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	25.3°C	Relative Humidity:	56%RH
Pressure:	1010hPa	Test Date:	2025-03-19
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz(Adapter 1)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1 *	34.2760	19.47	17.16	36.63	40.00	-3.37	QP	P		
2	55.6094	11.82	19.45	31.27	40.00	-8.73	QP	P		
3	200.6881	8.62	18.11	26.73	43.50	-16.77	QP	P		
4	554.8254	5.86	25.68	31.54	46.00	-14.46	QP	P		
5	758.0408	6.73	29.00	35.73	46.00	-10.27	QP	P		
6	906.4824	6.63	31.01	37.64	46.00	-8.36	QP	P		

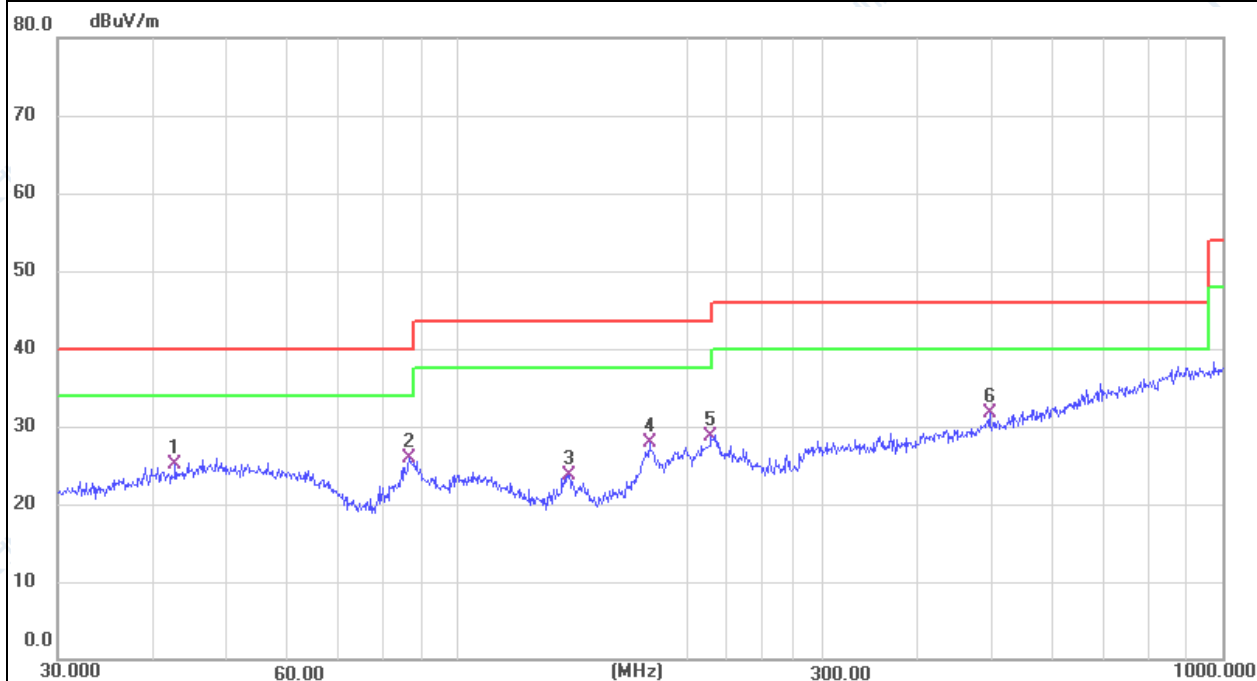
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	25.3°C	Relative Humidity:	56%RH
Pressure:	1010hPa	Test Date:	2025-03-19
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz(Adapter 2)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1	42.7496	5.78	19.24	25.02	40.00	-14.98	QP	P		
2 *	86.5029	11.13	14.86	25.99	40.00	-14.01	QP	P		
3	139.8508	9.26	14.48	23.74	43.50	-19.76	QP	P		
4	178.1327	11.89	15.97	27.86	43.50	-15.64	QP	P		
5	214.5143	10.38	18.24	28.62	43.50	-14.88	QP	P		
6	495.9344	7.13	24.50	31.63	46.00	-14.37	QP	P		

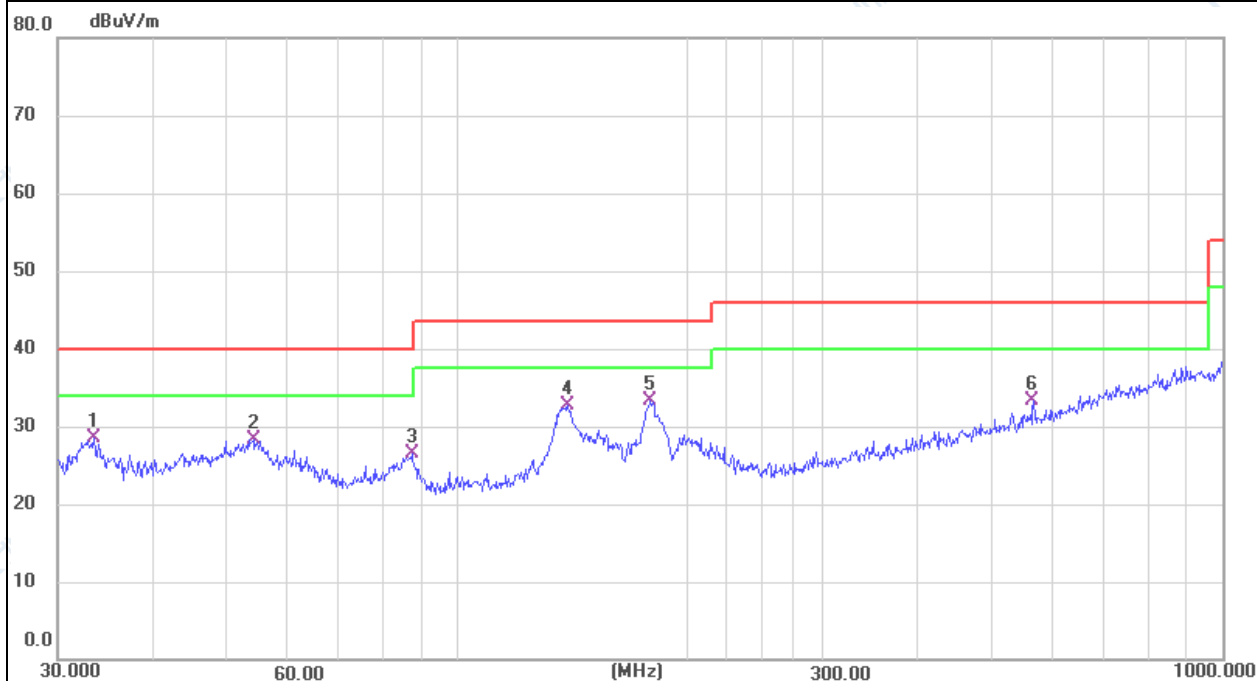
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	25.3°C	Relative Humidity:	56%RH
Pressure:	1010hPa	Test Date:	2025-03-19
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz(Adapter 2)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1	33.4450	11.53	17.04	28.57	40.00	-11.43	QP	P		
2	54.0710	8.81	19.50	28.31	40.00	-11.69	QP	P		
3	87.1116	11.45	15.03	26.48	40.00	-13.52	QP	P		
4	139.3611	18.27	14.48	32.75	43.50	-10.75	QP	P		
5 *	178.7584	17.34	16.04	33.38	43.50	-10.12	QP	P		
6	566.6221	7.50	25.73	33.23	46.00	-12.77	QP	P		

Remark:

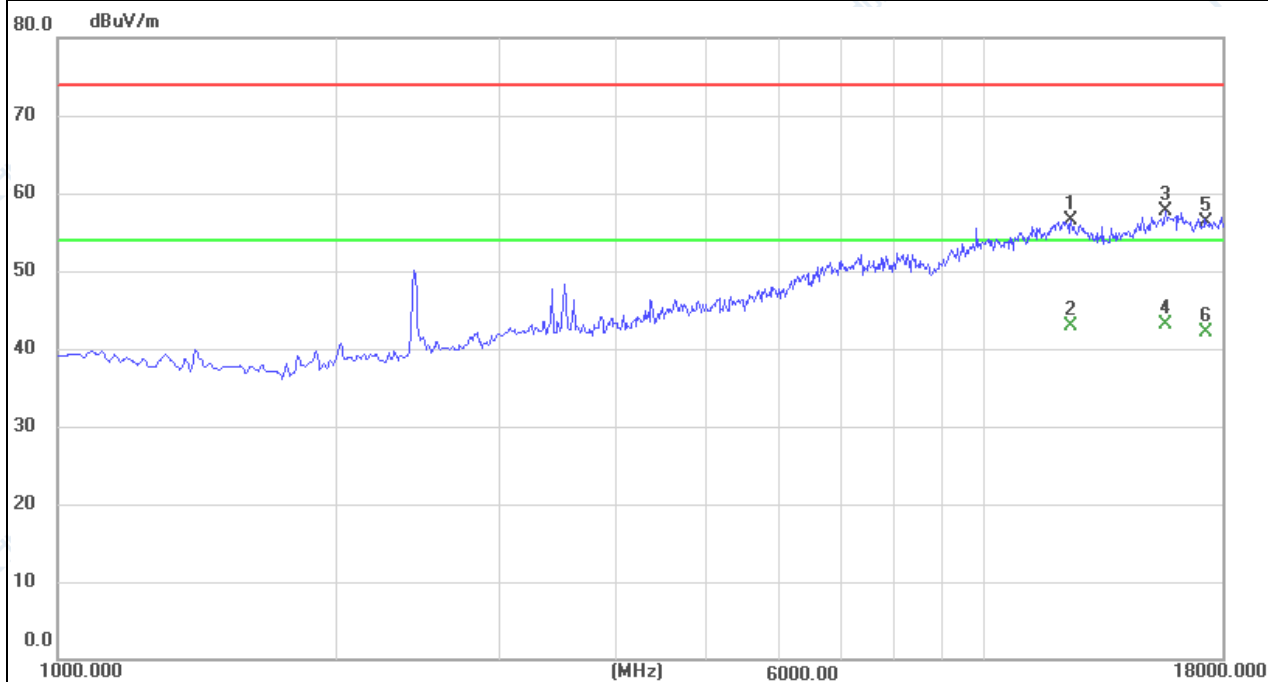
Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

3.2.7 TEST RESULTS (Above 1000MHz)

EUT:	Smartphone	Model Name:	A40
Temperature:	25.6°C	Relative Humidity:	52%RH
Pressure:	1010hPa	Test Date:	2025-05-20
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz(Adapter 1)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1	12373.000	45.24	11.28	56.52	74.00	-17.48	peak	P		
2	12373.000	31.57	11.28	42.85	54.00	-11.15	AVG	P		
3	15637.000	45.16	12.49	57.65	74.00	-16.35	peak	P		
4 *	15637.000	30.71	12.49	43.20	54.00	-10.80	AVG	P		
5	17303.000	42.41	13.87	56.28	74.00	-17.72	peak	P		
6	17303.000	28.23	13.87	42.10	54.00	-11.90	AVG	P		

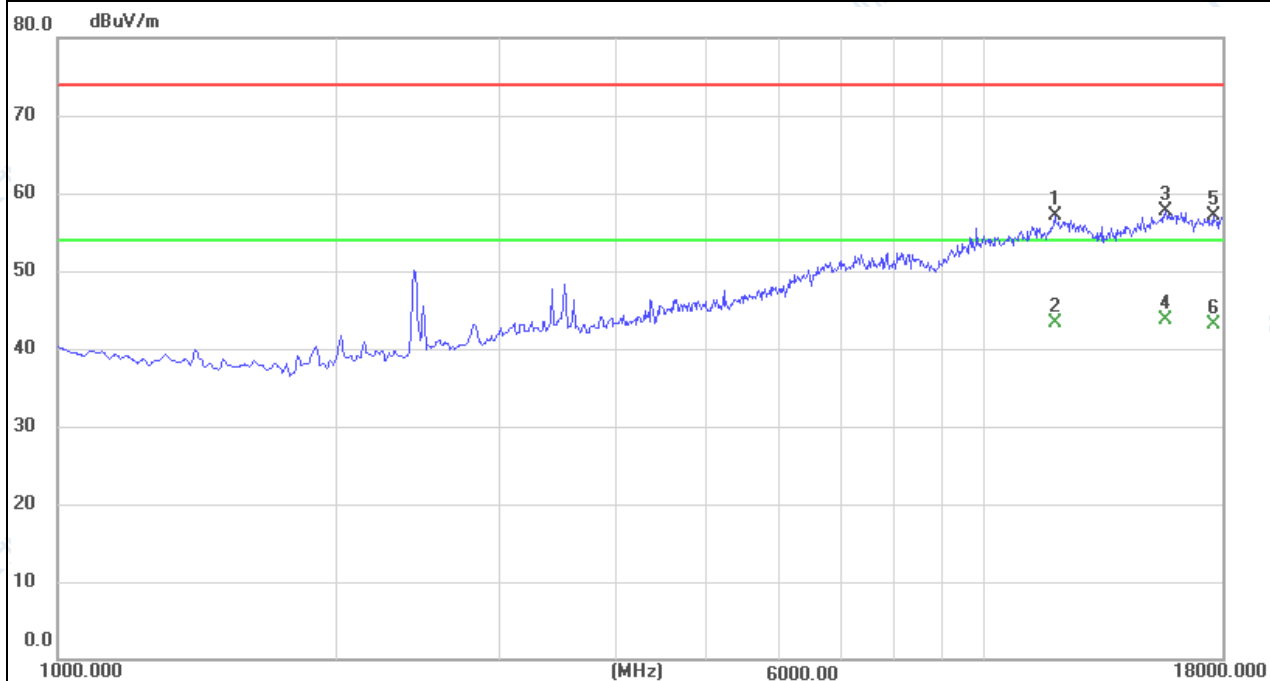
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	25.6°C	Relative Humidity:	52%RH
Pressure:	1010hPa	Test Date:	2025-05-20
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz(Adapter 1)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1	11880.000	46.69	10.42	57.11	74.00	-16.89	peak	P		
2	11880.000	32.94	10.42	43.36	54.00	-10.64	AVG	P		
3	15637.000	45.16	12.49	57.65	74.00	-16.35	peak	P		
4 *	15637.000	31.31	12.49	43.80	54.00	-10.20	AVG	P		
5	17609.000	42.49	14.70	57.19	74.00	-16.81	peak	P		
6	17609.000	28.50	14.70	43.20	54.00	-10.80	AVG	P		

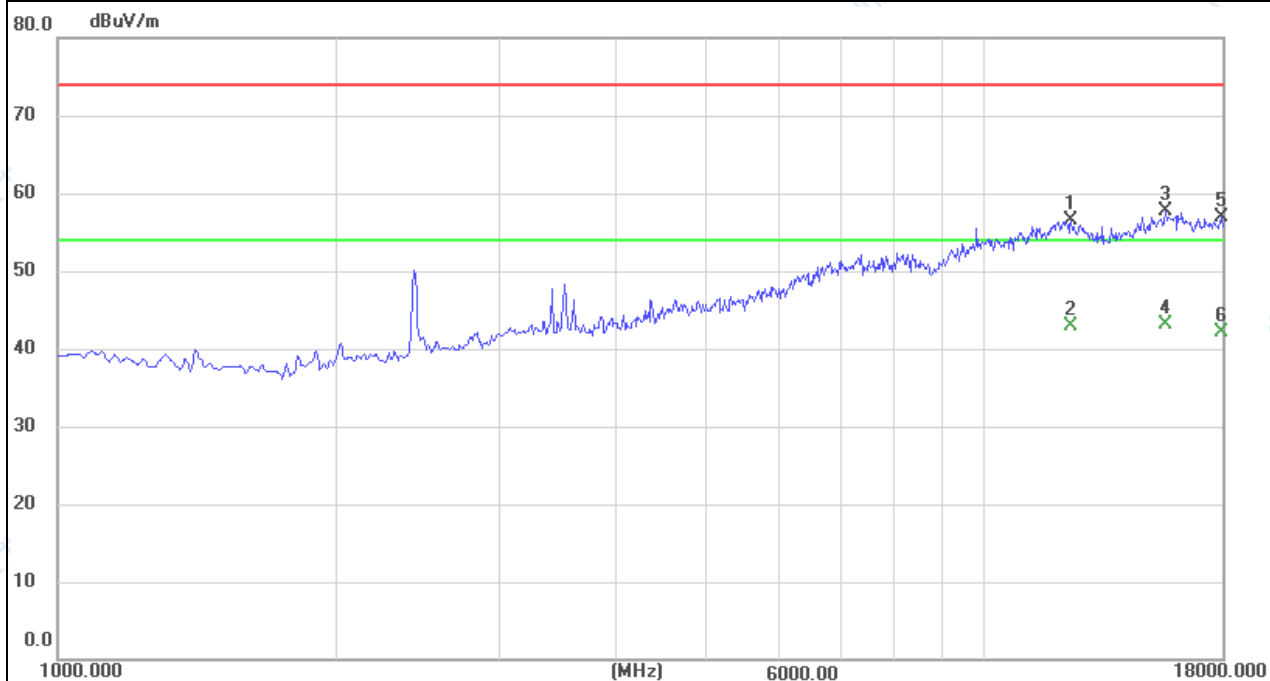
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	25.6°C	Relative Humidity:	52%RH
Pressure:	1010hPa	Test Date:	2025-05-20
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz(Adapter 2)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1	12373.000	45.24	11.28	56.52	74.00	-17.48	peak	P		
2	12373.000	31.57	11.28	42.85	54.00	-11.15	AVG	P		
3	15637.000	45.16	12.49	57.65	74.00	-16.35	peak	P		
4 *	15637.000	30.71	12.49	43.20	54.00	-10.80	AVG	P		
5	17966.000	40.55	16.30	56.85	74.00	-17.15	peak	P		
6	17966.000	25.80	16.30	42.10	54.00	-11.90	AVG	P		

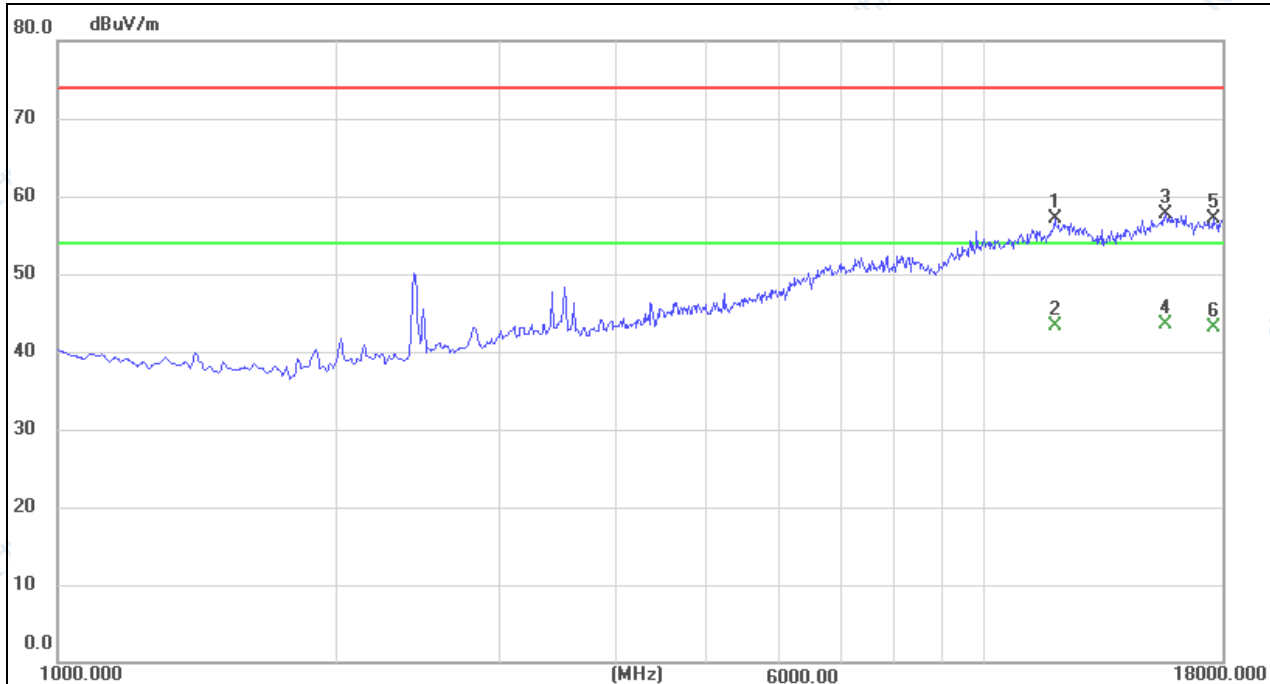
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	A40
Temperature:	25.6°C	Relative Humidity:	52%RH
Pressure:	1010hPa	Test Date:	2025-05-20
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz(Adapter 2)		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F		Remark
1	11880.000	46.69	10.42	57.11	74.00	-16.89	peak	P		
2	11880.000	32.94	10.42	43.36	54.00	-10.64	AVG	P		
3	15637.000	45.16	12.49	57.65	74.00	-16.35	peak	P		
4 *	15637.000	31.11	12.49	43.60	54.00	-10.40	AVG	P		
5	17609.000	42.49	14.70	57.19	74.00	-16.81	peak	P		
6	17609.000	28.40	14.70	43.10	54.00	-10.90	AVG	P		

Remark:

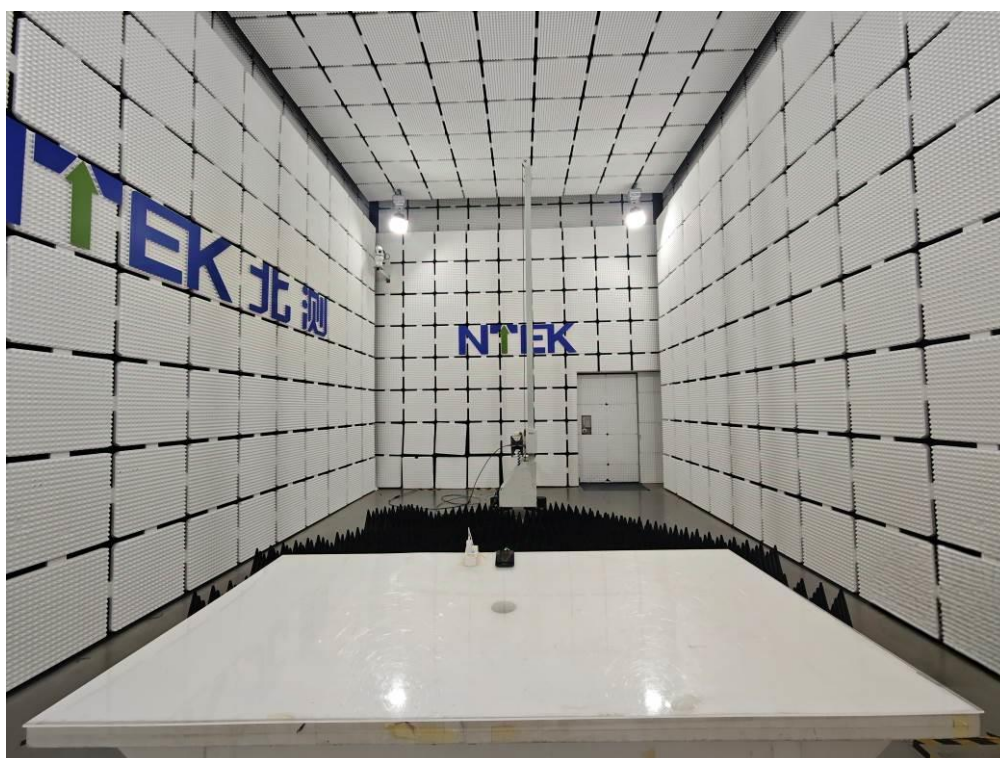
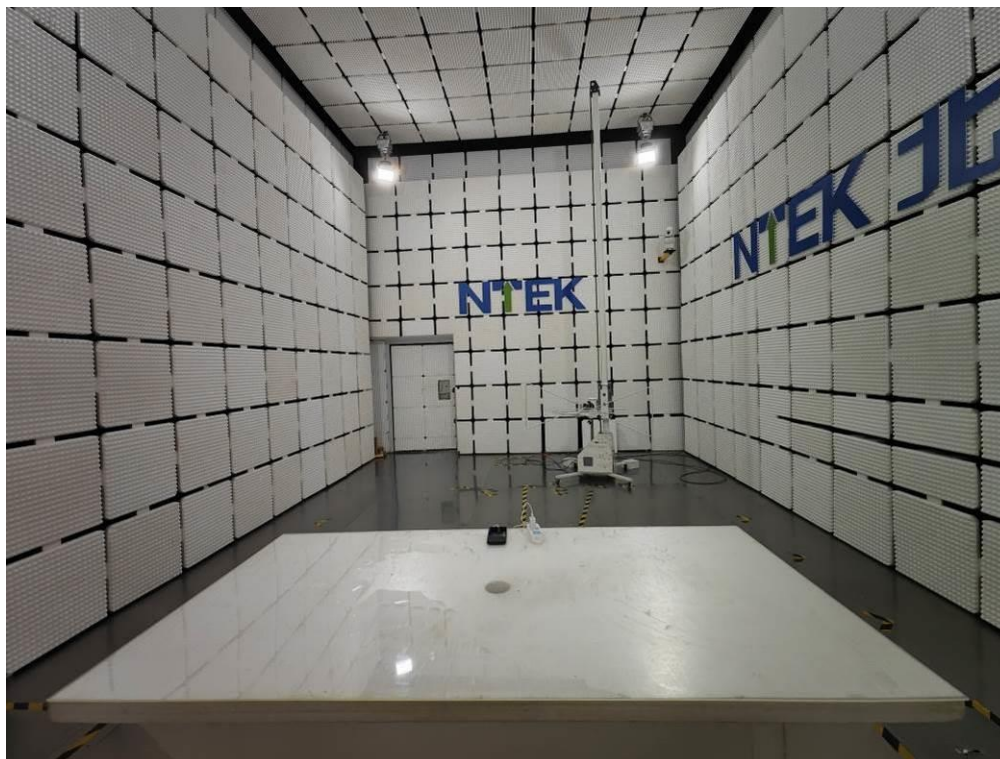
Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

4. EUT TEST PHOTO

Radiated Measurement Photo



Conducted Measurement Photo



ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2



Photo 3



Photo 4



Photo 5

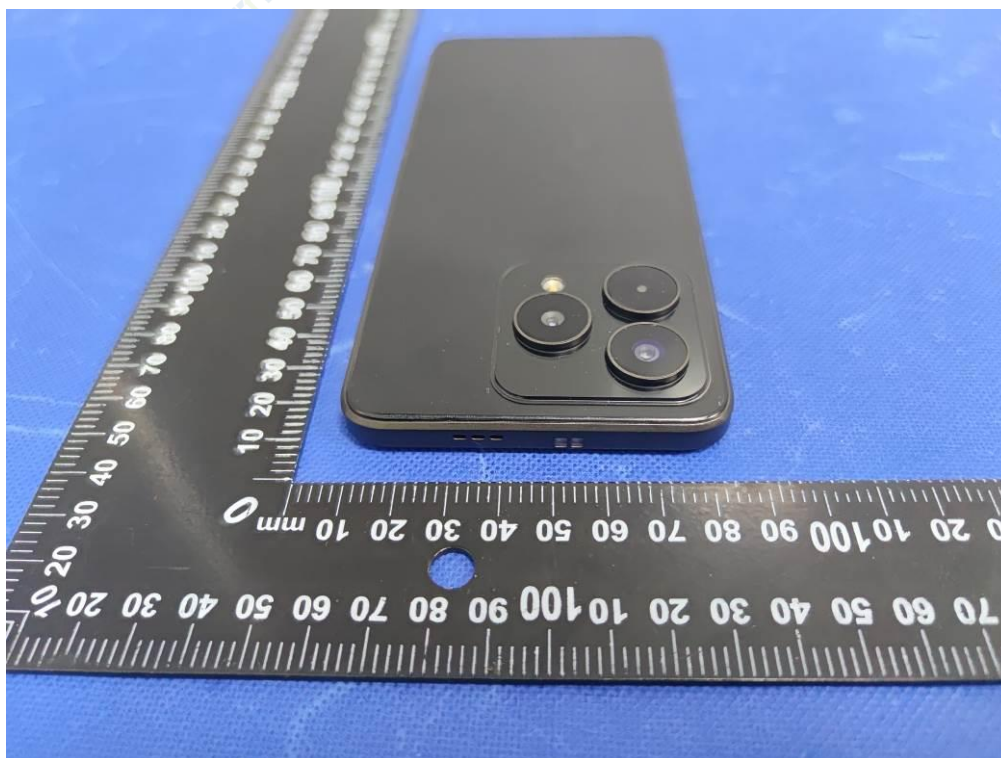


Photo 6

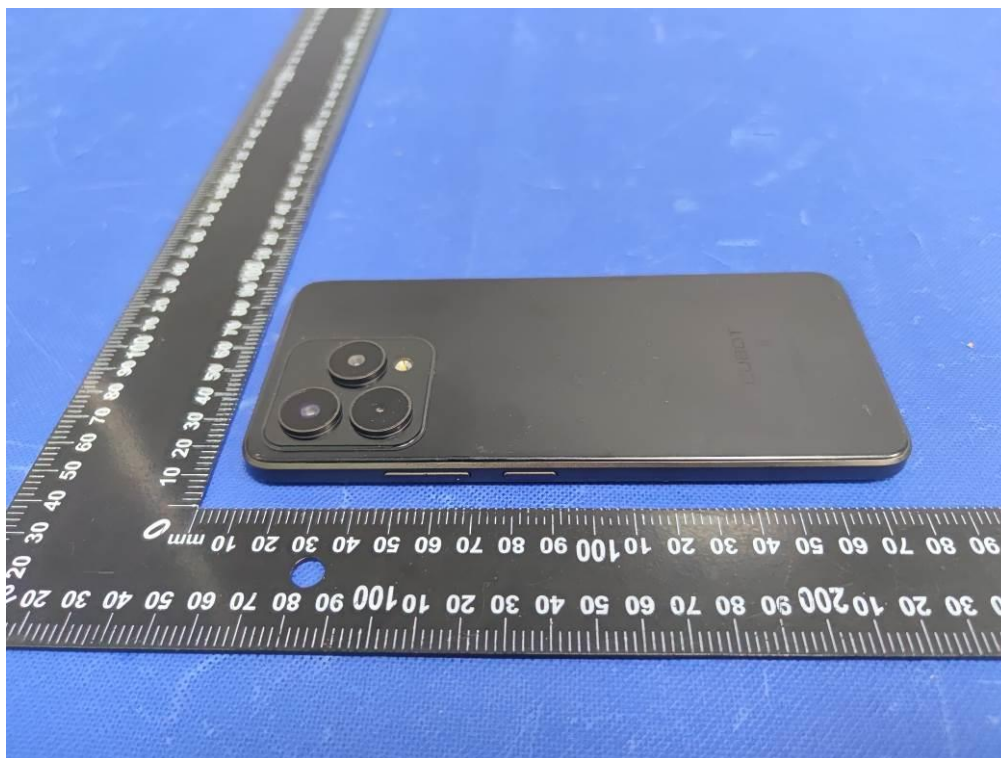


Photo 7



Photo 8



Photo 9



Photo 10

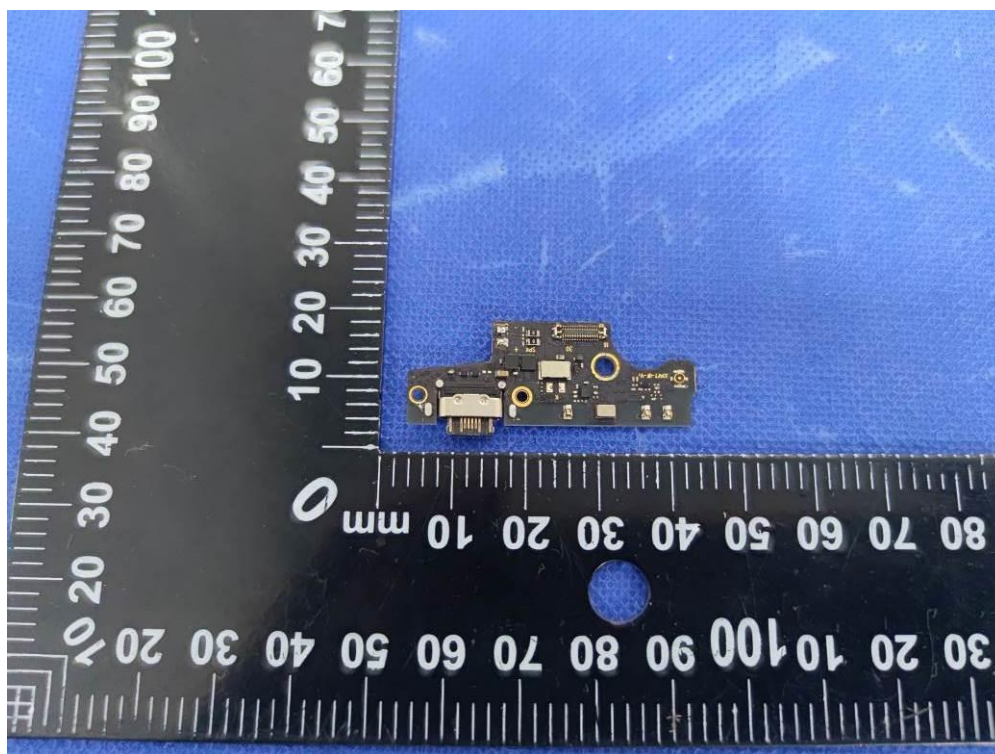


Photo 11

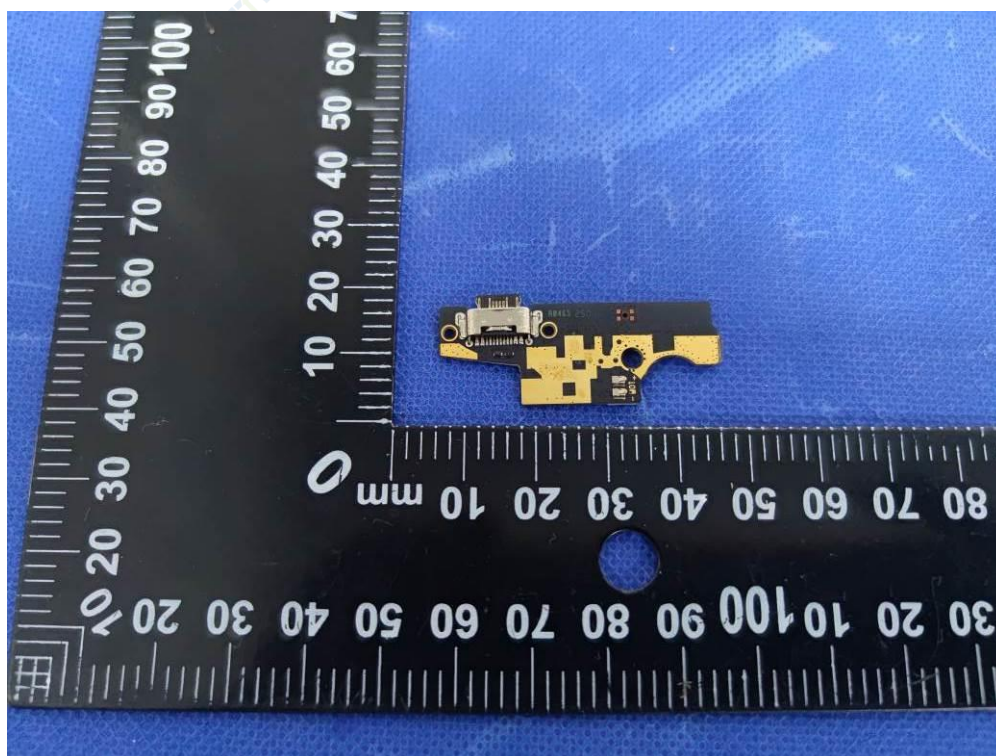


Photo 12

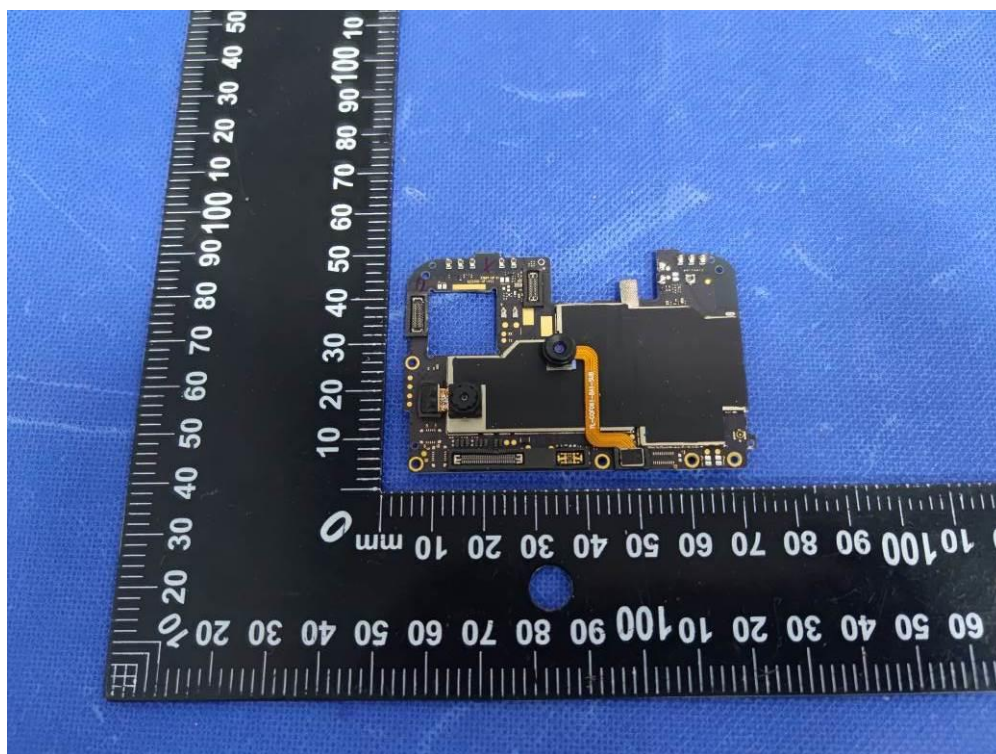


Photo 13

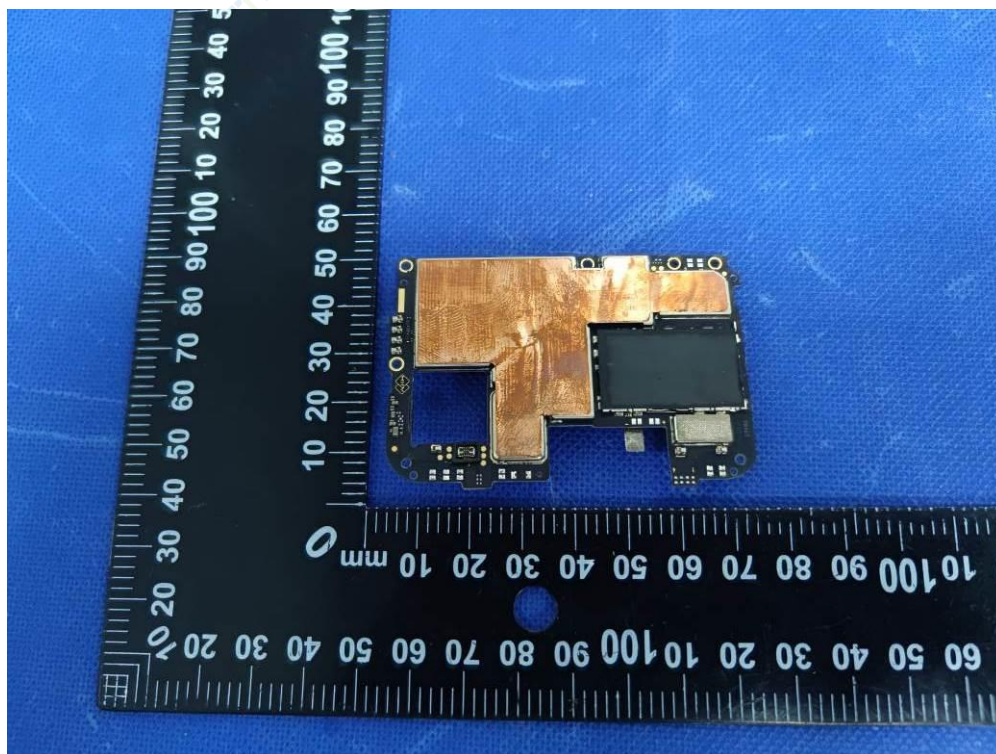


Photo 14

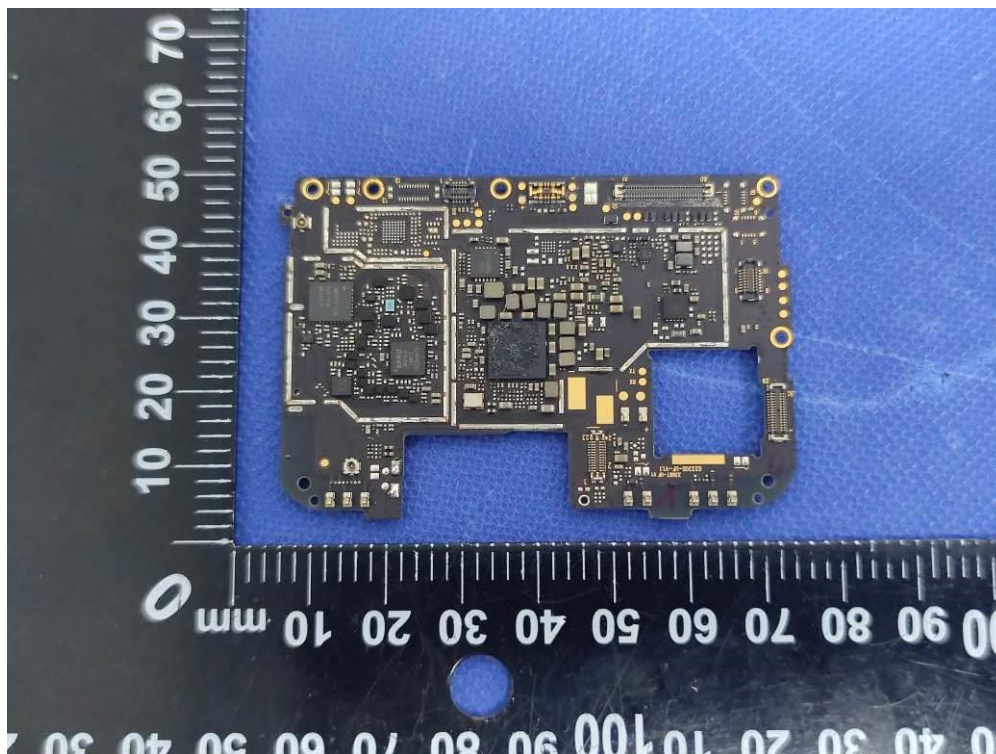


Photo 15

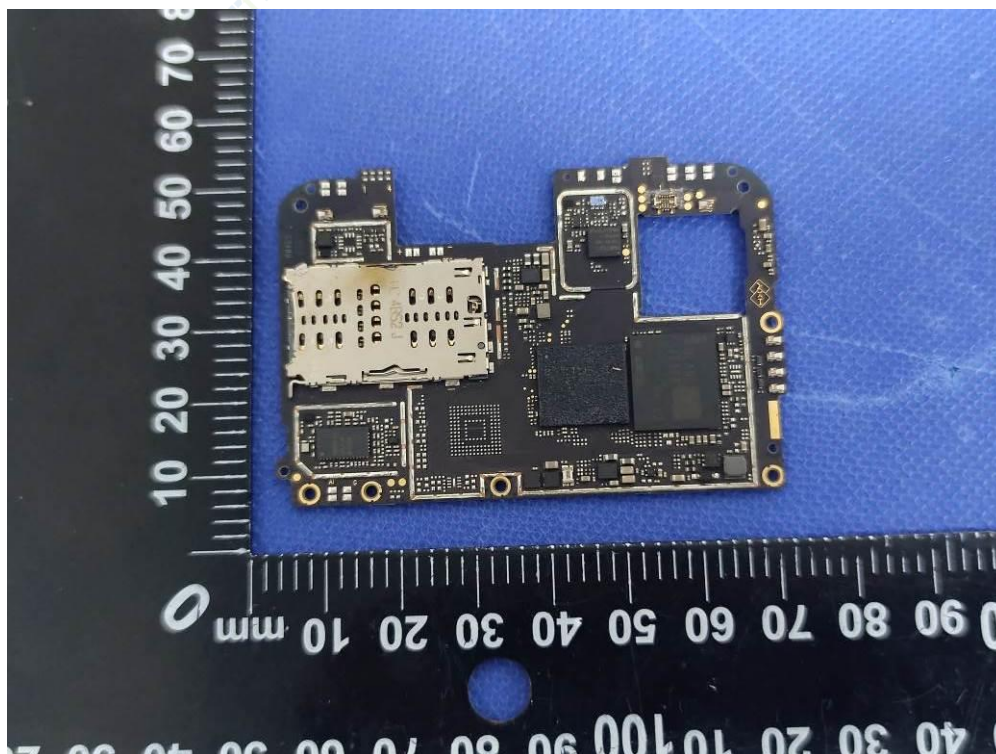


Photo 16



Photo 17

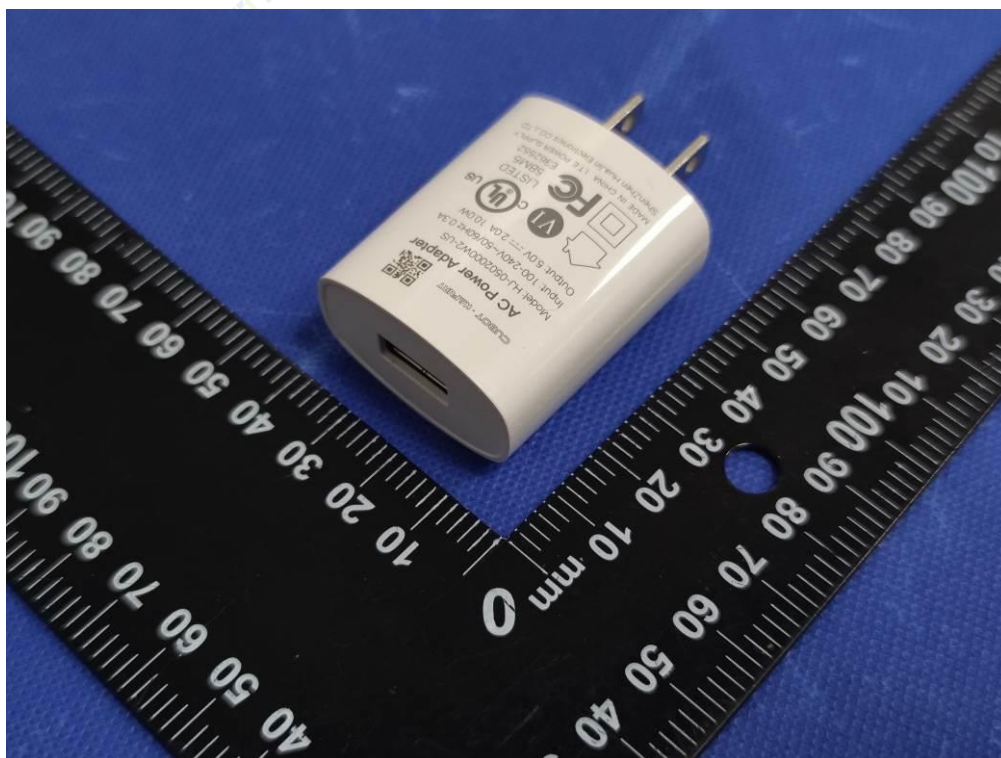


Photo 18

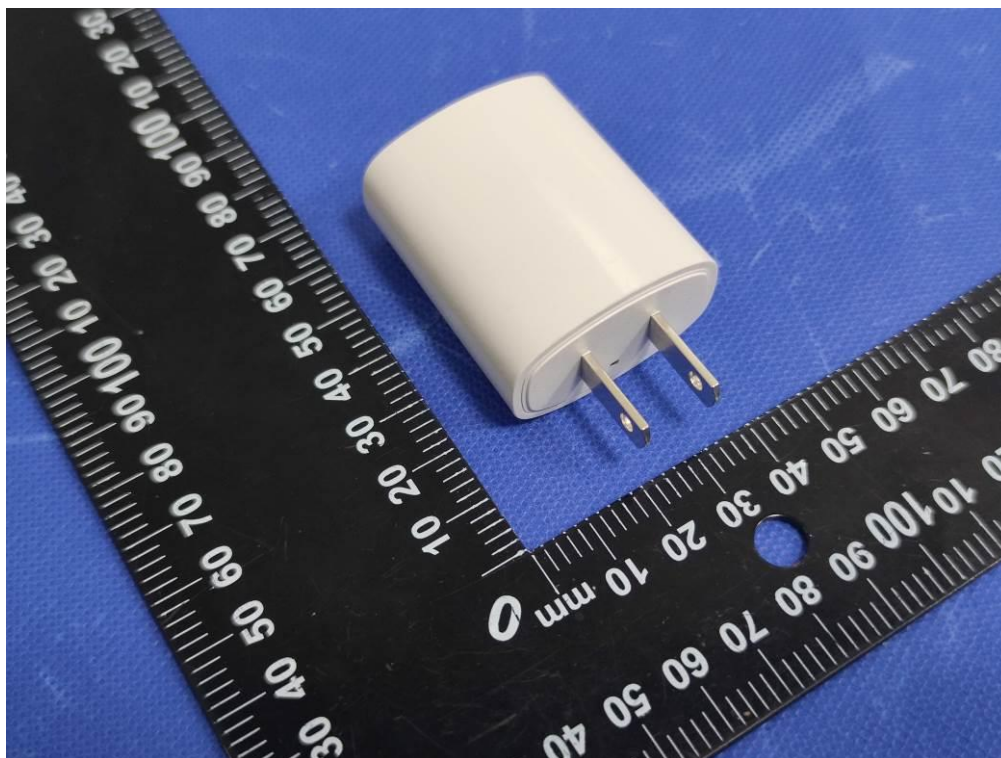


Photo 19



Photo 20

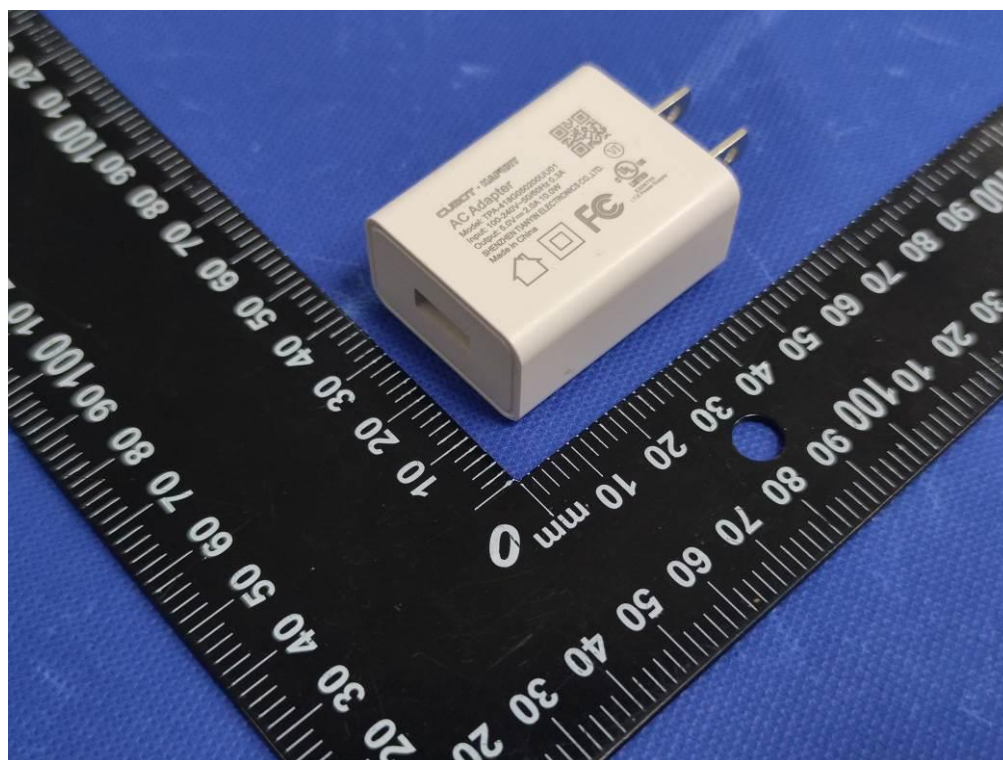


Photo 21

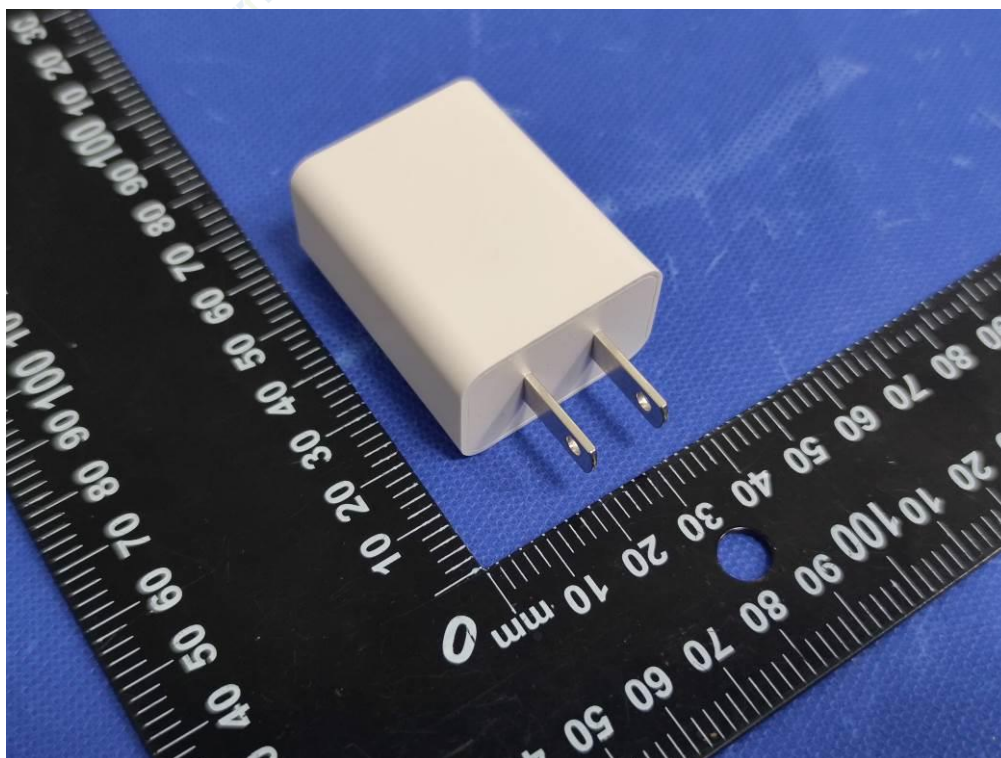


Photo 22



----- End of Report -----