

# FCC EMC Test Report



Subject to

Supplier's Declaration of Conformity

Procedure

**Product :** Smartphone

**Trade Mark :** CUBOT

**Model Number :** NOTE 8

**Prepared for**

Shenzhen Huafurui Technology Co., Ltd.

Unit 1401 14/F, Jin qi zhi gu mansion, Liu xian street, Xili, Nan shan district,  
Shenzhen, China

**Prepared by**

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an  
District, Shenzhen 518126 P.R.China.

Tel.: 400-800-6106, 0755-2320 0050 / 2320 0090      Website: <http://www.ntek.org.cn>

**TEST RESULT CERTIFICATION****Applicant's Name** .....: Shenzhen Huafurui Technology Co., Ltd.Address.....: Unit 1401 14/F, Jin qi zhi gu mansion, Liu xian street, Xili, Nan  
shan district, Shenzhen, China**Manufacturer's Name**.....: Shenzhen Huafurui Technology Co., Ltd.Address.....: Unit 1401 14/F, Jin qi zhi gu mansion, Liu xian street, Xili, Nan  
shan district, Shenzhen, China**Product description**

Product name.....: Smartphone

Model and/or type reference ...: NOTE 8

Standards.....: 47 CFR FCC part 15 subpart B, 10-1-2021  
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** .....: S220419056002**Date of Test** .....

Date (s) of performance of tests .....: 21 Apr. 2022 ~ 06 Jun. 2022

Date of Issue .....: 06 Jun. 2022

Test Result.....: **Pass**

Testing Engineer : \_\_\_\_\_

*Korka Lin*

(Korka Lin)

Technical Manager : \_\_\_\_\_

*Sky Zhang*

(Sky Zhang)

Authorized Signatory : \_\_\_\_\_

*Alex*

(Alex)

## Table of Contents

## Page

1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	8
2.3 DESCRIPTION OF TEST SETUP	9
2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	10
2.5 MEASUREMENT INSTRUMENTS LIST	11
3 . EMC EMISSION TEST	12
3.1 CONDUCTED EMISSION MEASUREMENT	12
3.1.1 POWER LINE CONDUCTED EMISSION	12
3.1.2 TEST PROCEDURE	13
3.1.3 TEST SETUP	13
3.1.4 EUT OPERATING CONDITIONS	13
3.1.5 TEST RESULTS	14
3.2 RADIATED EMISSION MEASUREMENT	16
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	16
3.2.2 TEST PROCEDURE	16
3.2.3 TEST SETUP	17
3.2.4 EUT OPERATING CONDITIONS	17
3.2.5 TEST RESULTS(30-1000MHz)	18
3.2.6 TEST RESULTS(Above 1000MHz)	20
4 . EUT TEST PHOTO	22
ATTACHMENT PHOTOGRAPHS OF EUT	24

## 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, 10-1-2021 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. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. 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

IC-Registration : The Certificate Registration Number is 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	0.009kHz ~ 0.15MHz	2	2.66
Conducted Emission	0.15MHz ~ 30MHz	2	2.80
Telecom Conducted Emission (Cat 3)	0.15MHz ~ 30MHz	2	3.08
Telecom Conducted Emission (Cat 5)	0.15MHz ~ 30MHz	2	3.60
Telecom Conducted Emission (Cat 6)	0.15MHz ~ 30MHz	2	4.14
Radiated Emission	30MHz ~ 1000MHz	2	2.64
Radiated Emission	1000MHz ~ 18000MHz	2	5.10
Power Clamp	30MHz ~ 300MHz	2	2.20





## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone	
Model Name	NOTE 8	
Additional Model Number(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a Smartphone.	
	Operating frequency:	2.4 GHz by BT & WiFi (Declaration by factory)
	Connecting I/O port:	N/A
	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 Model: HJ-0501000E1-US Adapter Rating: Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A, 5.0W Battery Rating: DC 3.8V, 3100mAh, 11.78Wh	

## 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 + Lighting + TF Playing
Mode 3	Charging + Lighting + FM
Mode 4	Data Transmission

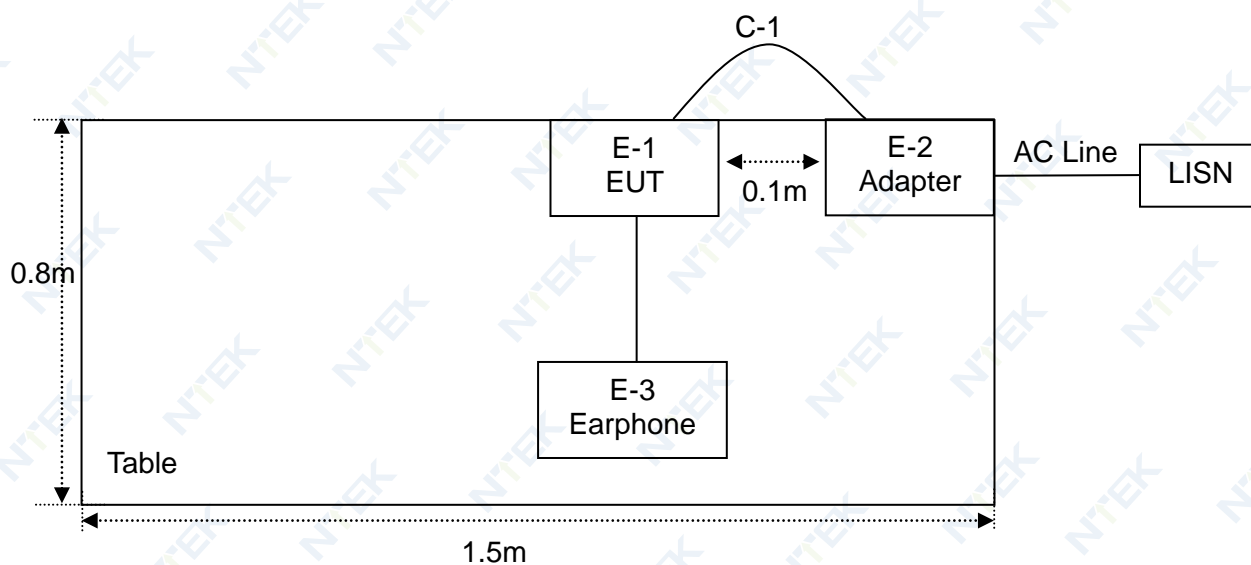
For Conducted Test	
Final Test Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + Lighting + TF Playing
Mode 3	Charging + Lighting + FM
Mode 4	Data Transmission

For Radiated Test	
Final Test Mode	Description
Mode 1	Charging + REC(Front / Rear)
Mode 2	Charging + Lighting + TF Playing
Mode 3	Charging + Lighting + FM
Mode 4	Data Transmission



## 2.3 DESCRIPTION OF TEST SETUP

Mode CE: Charging + Lighting + TF Playing



## 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	NOTE 8	N/A	EUT
E-2	Adapter	HuaJin	HJ-0501000E1-US	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	

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	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Single Phase LISN	R&S	ENV216	101490	Jul. 01, 2021	Jun. 30, 2022	1 year
2	Single Phase LISN	R&S	ENV216	101313	Apr. 06, 2022	Apr. 05, 2023	1 year
3	Three-Phase LISN	SCHWARZBECK	NNLK 8129	8129245	Apr. 06, 2022	Apr. 05, 2023	1 year
4	Low frequency cable	N/A	C-01	N/A	May 11, 2020	May 10, 2023	3 years
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983704	May 11, 2020	May 10, 2023	3 years
6	EMI Test Receiver	R&S	ESCI	101160	Apr. 06, 2022	Apr. 05, 2023	1 year

### 2.5.2 RADIATED TEST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	EMI Test Receiver	R&S	ESPI7	101318	Apr. 06, 2022	Apr. 05, 2023	1 year
2	Bilog Antenna	TESEQ	CBL6111D	31216	Mar. 30, 2022	Mar. 29, 2023	1 year
3	System Controller	SKET	N/A	N/A	N/A	N/A	N/A
4	Antenna Mast	SKET	N/A	N/A	N/A	N/A	N/A
5	System Controller	ADT	SC100	N/A	N/A	N/A	N/A
6	Antenna Mast	ADT	N/A	N/A	N/A	N/A	N/A
7	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	May 11, 2020	May 10, 2023	3 years
8	Cable	Talent Microwave	A81-NWMSM AM-12M	21120897	Dec. 16, 2021	Dec. 15, 2024	3 years
9	Attenuator	Eastsheep	5W-N-JK-6G-6DB	N/A	Aug. 13, 2021	Aug. 12, 2022	1 year
10	RF Cable	Pasternack	PE332-1000CM	N/A	Nov. 10, 2019	Nov. 09, 2022	3 years
11	Broadband Horn Antenna	EM	EM-AH-10180	2011071402	Mar. 31, 2022	Mar. 30, 2023	1 year
12	Spectrum Analyzer	Agilent	E4407B	MY45108040	Apr. 01, 2022	Mar. 31, 2023	1 year
13	Pre-Amplifier	EMC	EMC051835SE	980246	Jul. 01, 2021	Jun. 30, 2022	1 year
14	Cable	Keysight	A40-2.92M2.9 2M-2M	1808041	Nov. 18, 2019	Nov. 17, 2022	3 years

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	<input type="checkbox"/> Class A (dB $\mu$ V)		<input checked="" type="checkbox"/> Class B (dB $\mu$ 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.

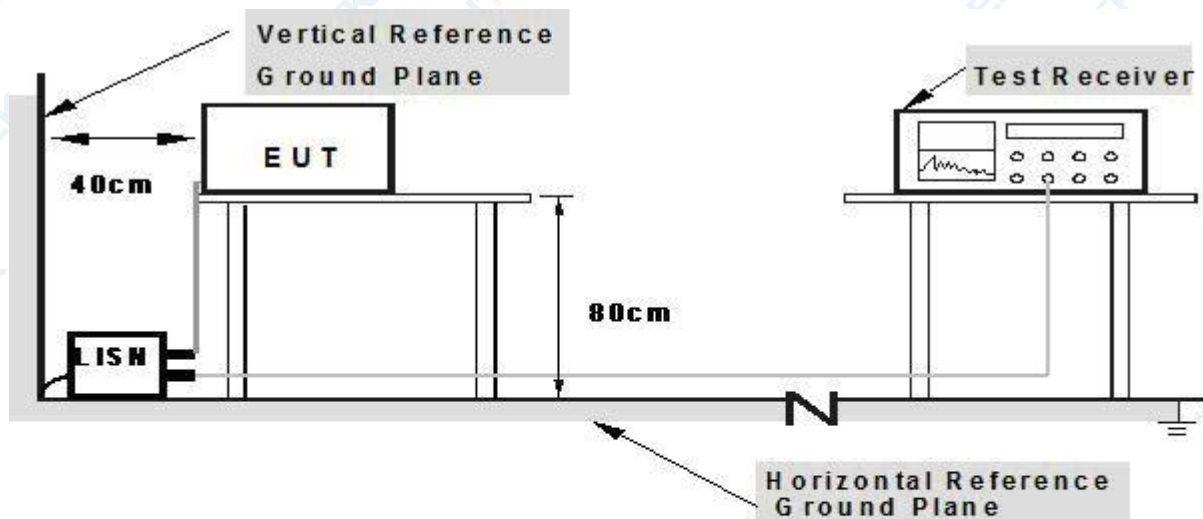
The following table is the setting of the receiver

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

### 3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 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.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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.**

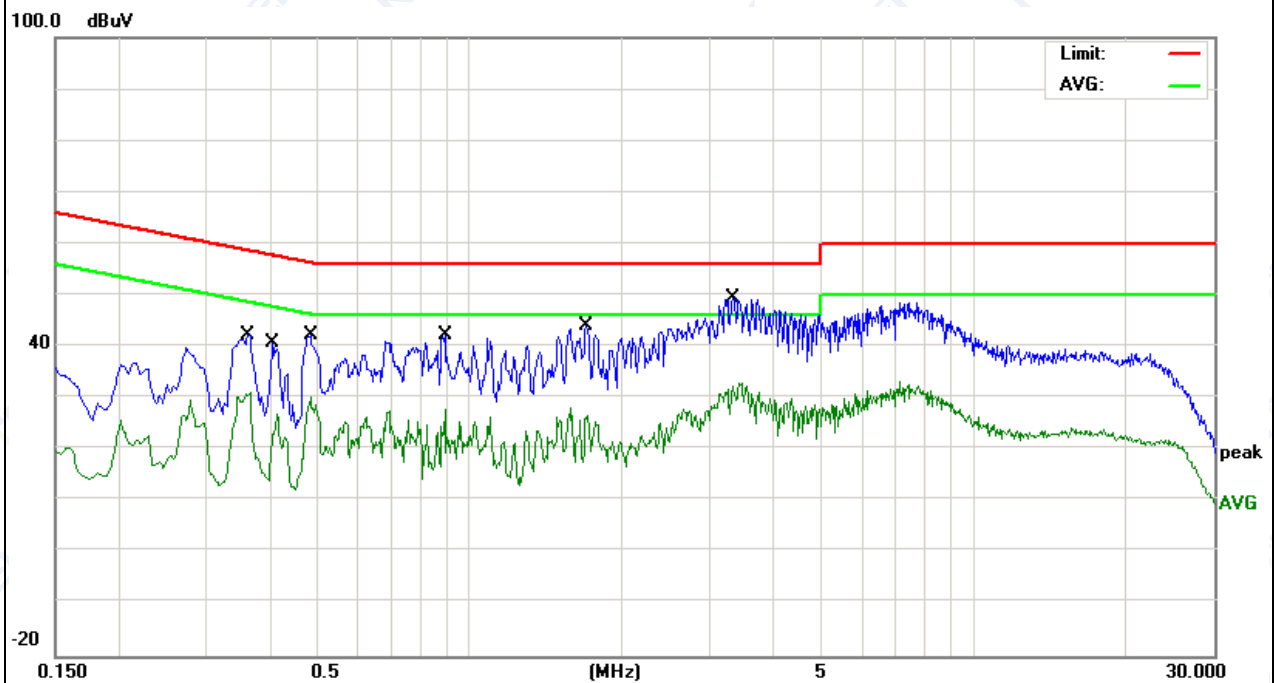
**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

### 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:	NOTE 8
Temperature:	24.9℃	Relative Humidity:	67%
Pressure:	1010hPa	Test Date:	2022-04-24
Test Mode:	Charging + REC(Rear)	Phase:	L
Test Voltage:	AC 120V/60Hz		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3620	32.59	9.64	42.23	58.68	-16.45	QP	
2		0.3620	21.52	9.64	31.16	48.68	-17.52	AVG	
3		0.4060	30.99	9.64	40.63	57.73	-17.10	QP	
4		0.4060	17.33	9.64	26.97	47.73	-20.76	AVG	
5		0.4820	32.67	9.64	42.31	56.30	-13.99	QP	
6		0.4820	20.62	9.64	30.26	46.30	-16.04	AVG	
7		0.8900	32.45	9.74	42.19	56.00	-13.81	QP	
8		0.8900	17.96	9.74	27.70	46.00	-18.30	AVG	
9		1.7060	34.24	9.76	44.00	56.00	-12.00	QP	
10		1.7060	16.83	9.76	26.59	46.00	-19.41	AVG	
11	*	3.3220	39.63	9.70	49.33	56.00	-6.67	QP	
12		3.3220	23.37	9.70	33.07	46.00	-12.93	AVG	

**Remark:**

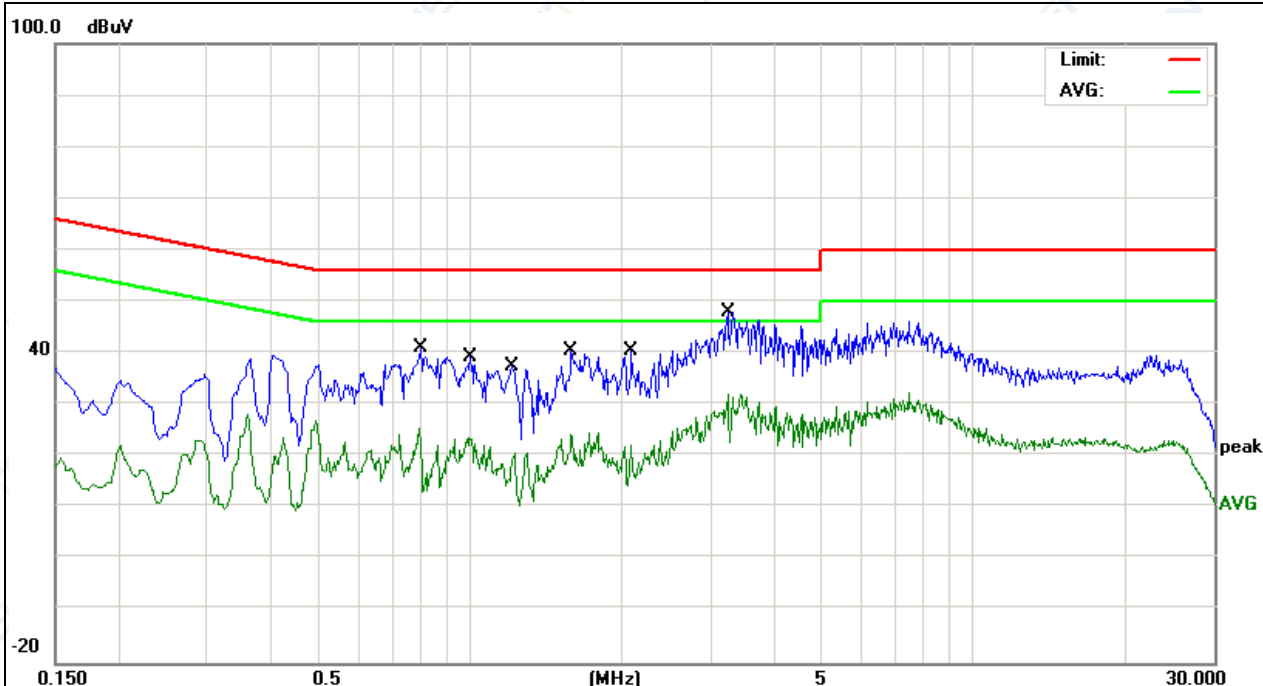
Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit



EUT:	Smartphone	Model Name:	NOTE 8
Temperature:	24.9°C	Relative Humidity:	67%
Pressure:	1010hPa	Test Date:	2022-04-24
Test Mode:	Charging + REC(Rear)	Phase:	N
Test Voltage:	AC 120V/60Hz		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.7940	31.34	9.67	41.01	56.00	-14.99	QP	
2		0.7940	15.75	9.67	25.42	46.00	-20.58	AVG	
3		0.9980	29.64	9.75	39.39	56.00	-16.61	QP	
4		0.9980	14.01	9.75	23.76	46.00	-22.24	AVG	
5		1.2140	27.57	9.73	37.30	56.00	-18.70	QP	
6		1.2140	10.85	9.73	20.58	46.00	-25.42	AVG	
7		1.5900	30.85	9.70	40.55	56.00	-15.45	QP	
8		1.5900	14.47	9.70	24.17	46.00	-21.83	AVG	
9		2.0900	30.82	9.66	40.48	56.00	-15.52	QP	
10		2.0900	12.60	9.66	22.26	46.00	-23.74	AVG	
11	*	3.2540	38.25	9.73	47.98	56.00	-8.02	QP	
12		3.2540	22.30	9.73	32.03	46.00	-13.97	AVG	

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

FREQUENCY (MHz)	<input type="checkbox"/> Class A (at 3m)	<input checked="" type="checkbox"/> Class B (at 3m)
	dBµV/m	dBµV/m
30 ~ 88	49.5	40.0
88 ~ 216	53.9	43.5
216 ~ 960	56.9	46.0
Above 960	60.0	54.0

Notes:

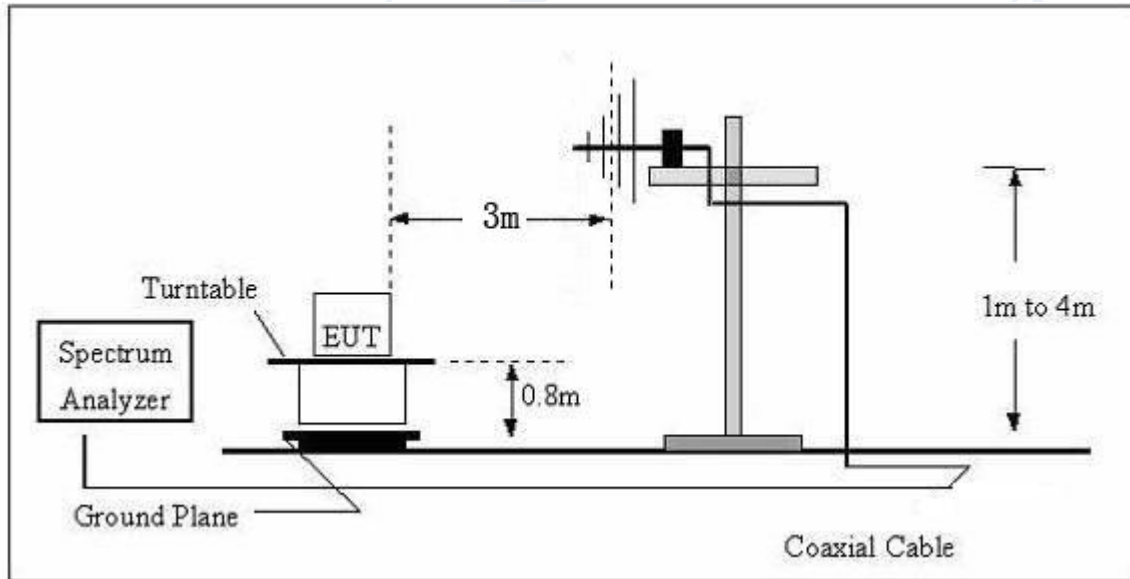
- (1) The limit for radiated test was performed according to as following: FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBµV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

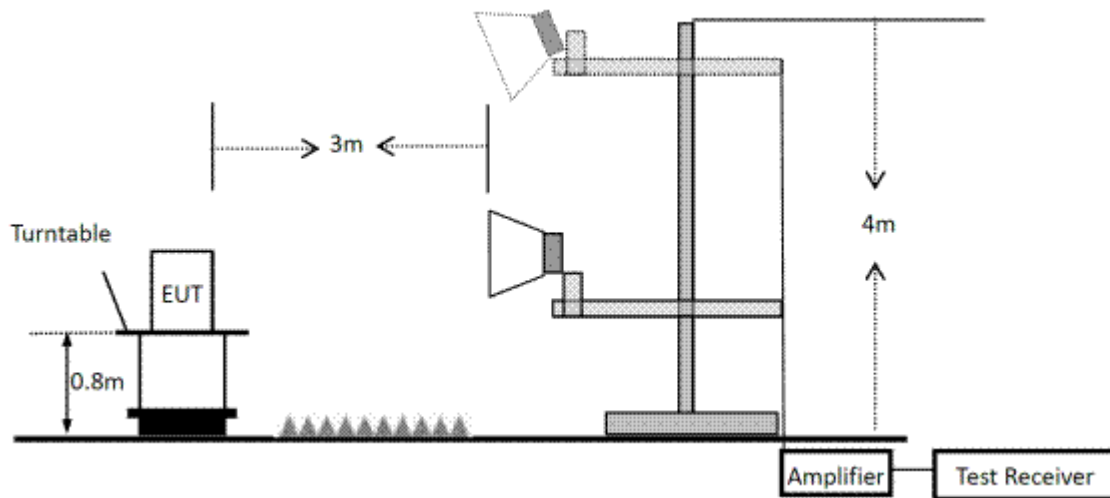
- a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 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.

### 3.2.3 TEST SETUP

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



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

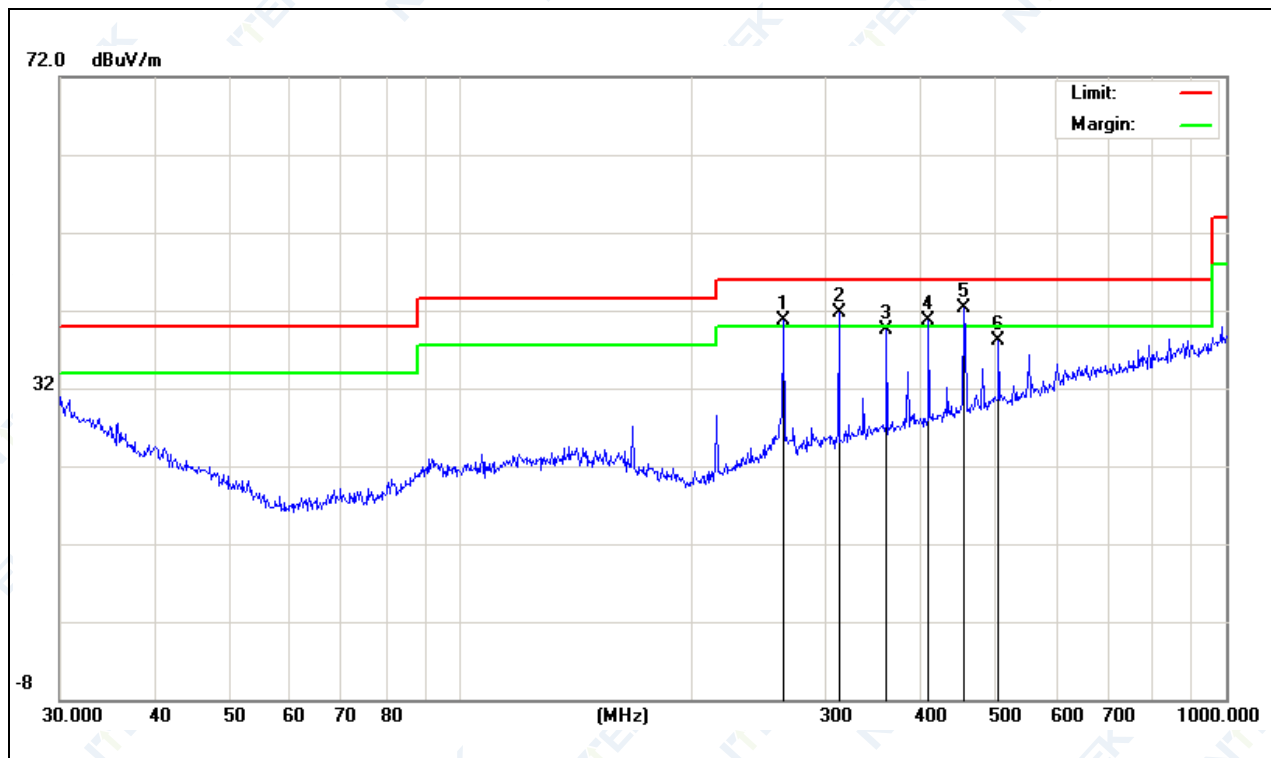


### 3.2.4 EUT OPERATING CONDITIONS

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.

### 3.2.5 TEST RESULTS(30-1000MHz)

EUT:	Smartphone	Model Name:	NOTE 8
Temperature:	25.2℃	Relative Humidity:	53%
Pressure:	1010hPa	Test Date:	2022-04-26
Test Mode:	Charging + REC(Rear)	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	!	264.7456	20.83	19.97	40.80	46.00	-5.20	QP		
2	!	312.1792	21.55	20.23	41.78	46.00	-4.22	QP		
3		360.4476	17.65	21.85	39.50	46.00	-6.50	QP		
4	!	408.9460	17.83	22.81	40.64	46.00	-5.36	QP		
5	*	454.3100	18.19	24.11	42.30	46.00	-3.70	QP		
6		504.7062	12.72	25.36	38.08	46.00	-7.92	QP		

**Remark:**

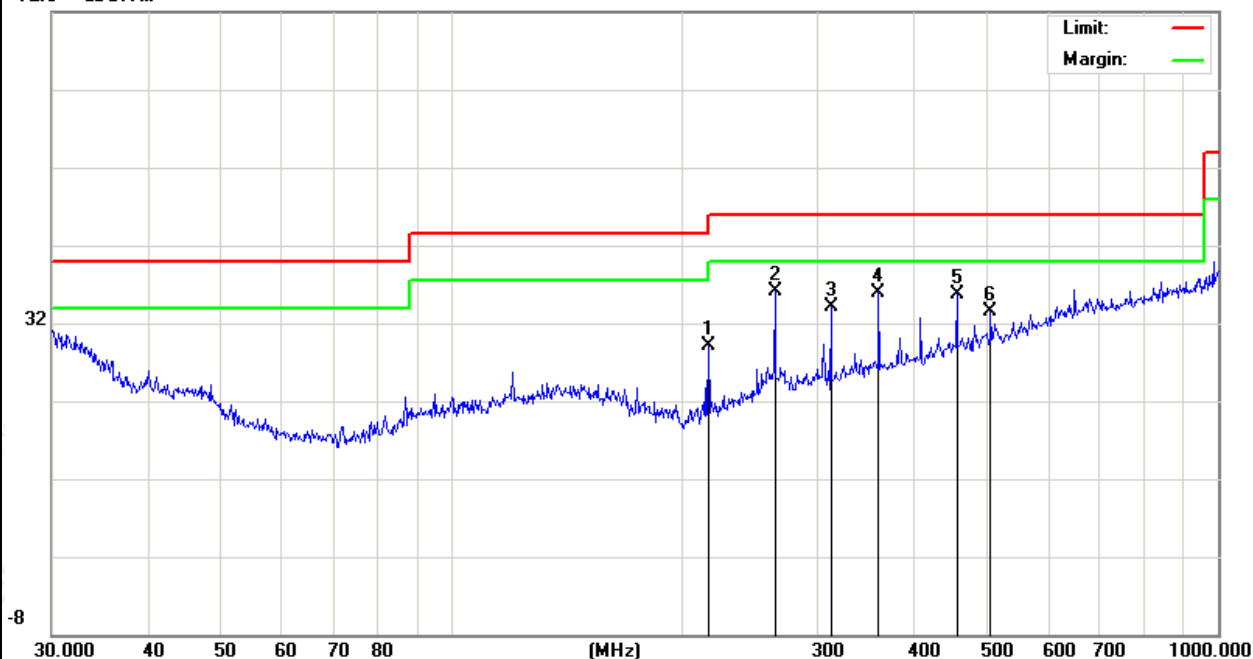
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Smartphone	Model Name:	NOTE 8
Temperature:	25.2℃	Relative Humidity:	53%
Pressure:	1010hPa	Test Date:	2022-04-26
Test Mode:	Charging + REC(Rear)	Polarization:	Vertical
Test Power:	AC 120V/60Hz		

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		216.0240	13.18	15.92	29.10	46.00	-16.90	QP		
2	*	263.8190	16.04	20.04	36.08	46.00	-9.92	QP		
3		312.1794	13.94	20.23	34.17	46.00	-11.83	QP		
4		360.4476	14.15	21.85	36.00	46.00	-10.00	QP		
5		455.9058	11.57	24.09	35.66	46.00	-10.34	QP		
6		504.7062	8.18	25.36	33.54	46.00	-12.46	QP		

Remark:

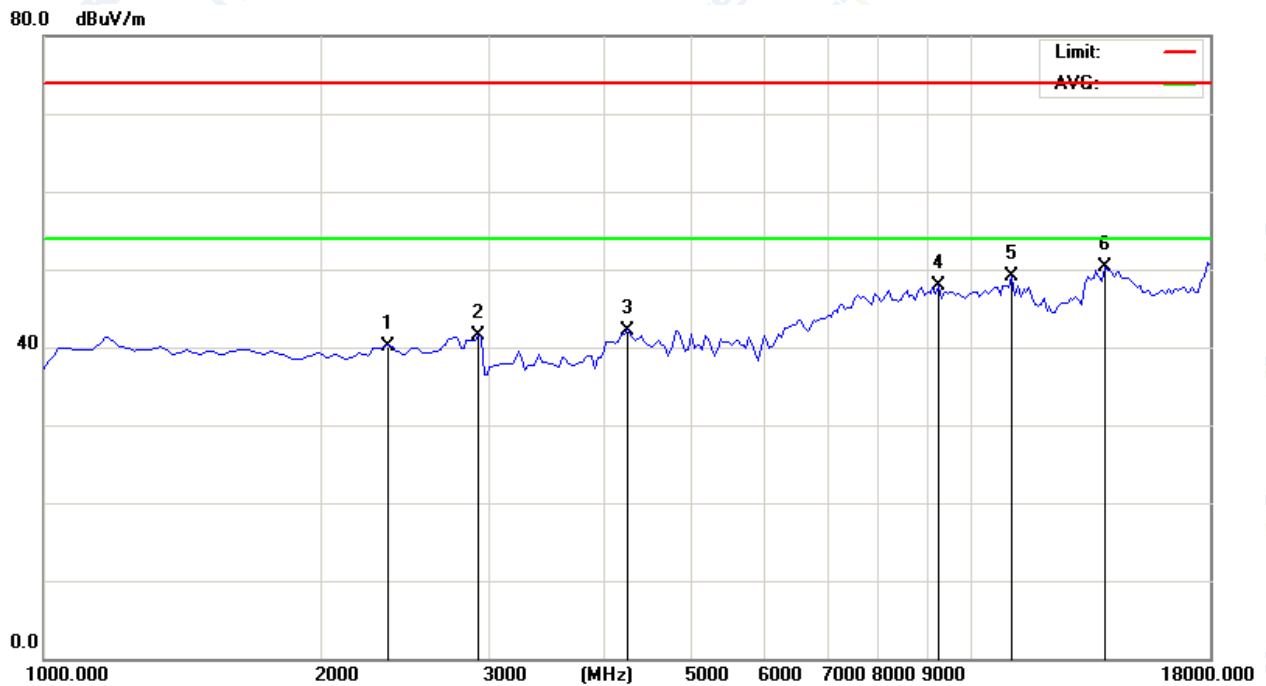
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

## 3.2.6 TEST RESULTS(Above 1000MHz)

EUT:	Smartphone	Model Name:	NOTE 8
Temperature:	25.2℃	Relative Humidity:	53%
Pressure:	1010hPa	Test Date:	2022-04-26
Test Mode:	Charging + REC(Rear)	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2360.000	39.26	0.94	40.20	74.00	-33.80	peak		
2		2955.000	39.06	2.46	41.52	74.00	-32.48	peak		
3		4272.500	37.76	4.44	42.20	74.00	-31.80	peak		
4		9245.000	35.36	12.55	47.91	74.00	-26.09	peak		
5		11072.50	35.08	14.08	49.16	74.00	-24.84	peak		
6	*	13962.50	34.68	15.57	50.25	74.00	-23.75	peak		

## Remark:

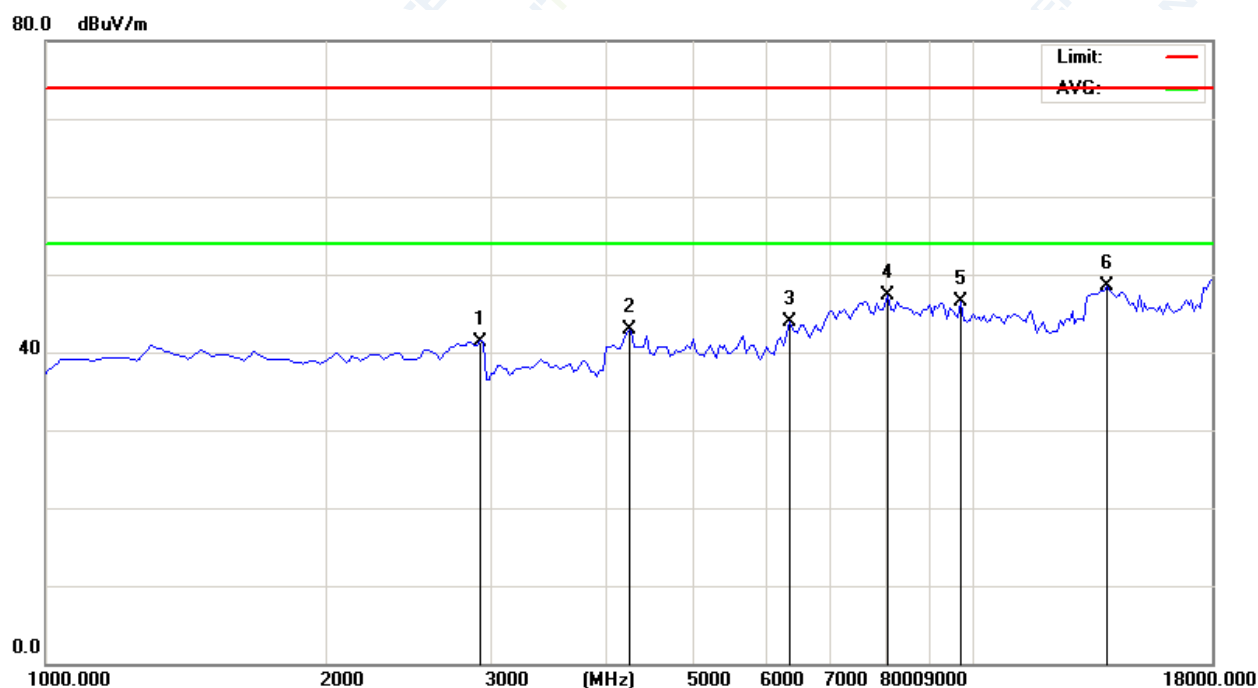
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit



EUT:	Smartphone	Model Name:	NOTE 8
Temperature:	25.2°C	Relative Humidity:	53%
Pressure:	1010hPa	Test Date:	2022-04-26
Test Mode:	Charging + REC(Rear)	Polarization:	Vertical
Test Power:	AC 120V/60Hz		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		2955.000	38.94	2.46	41.40	74.00	-32.60	peak		
2		4272.500	38.39	4.44	42.83	74.00	-31.17	peak		
3		6355.000	35.87	7.95	43.82	74.00	-30.18	peak		
4		8097.500	35.73	11.63	47.36	74.00	-26.64	peak		
5		9670.000	33.56	12.92	46.48	74.00	-27.52	peak		
6	*	13920.00	32.96	15.55	48.51	74.00	-25.49	peak		

Remark:

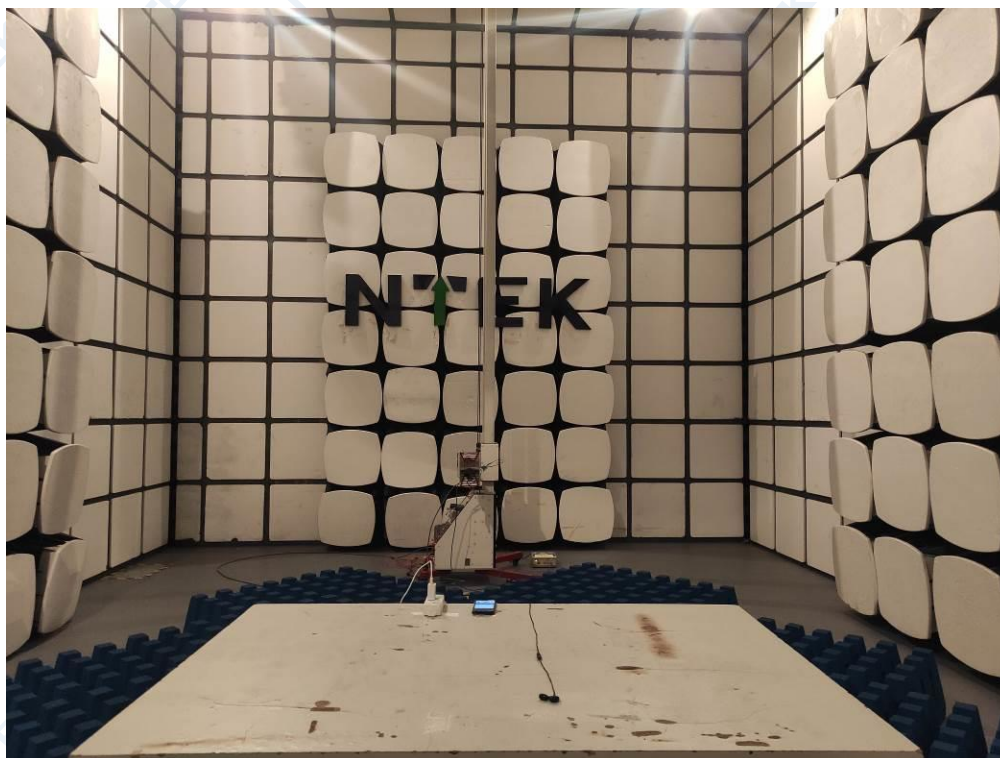
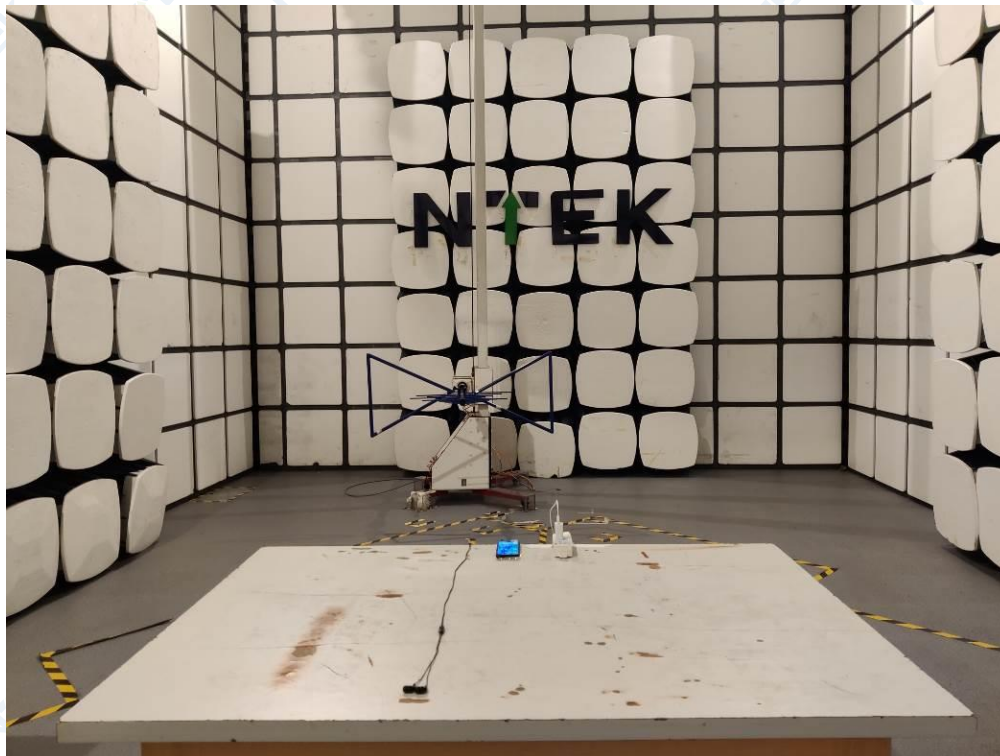
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain

Measurement Level = Reading Level + Correct Factor

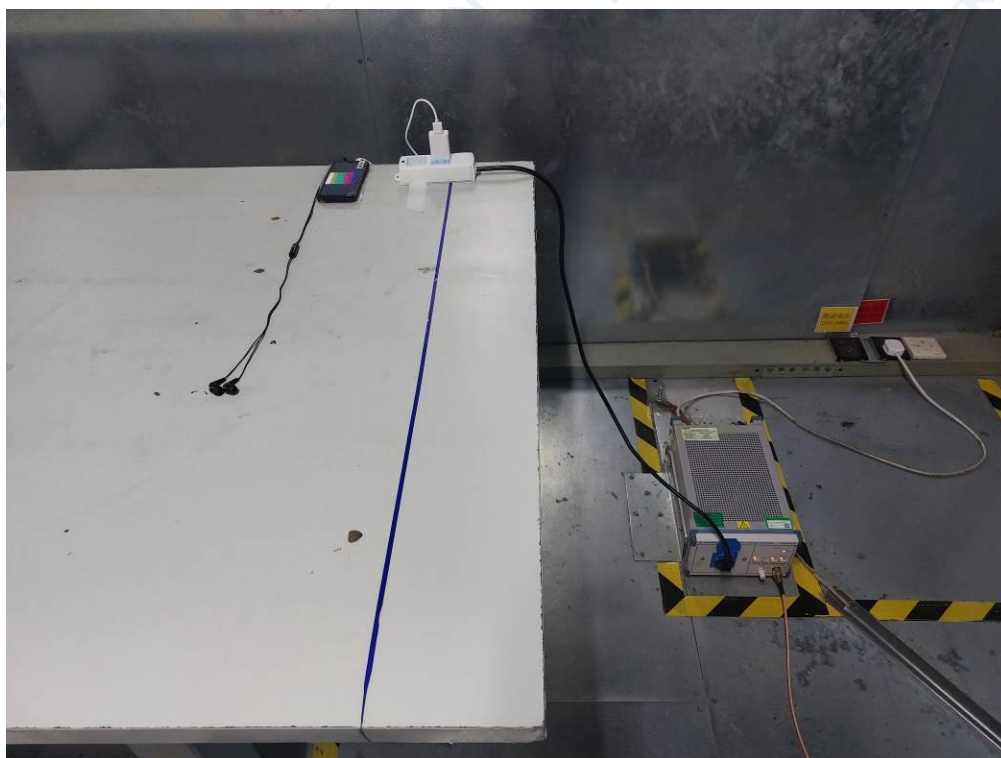
Over Level = Measurement Level - Limit

#### 4. EUT TEST PHOTO

Radiated Measurement Photo



Conducted Measurement Photo





## ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2

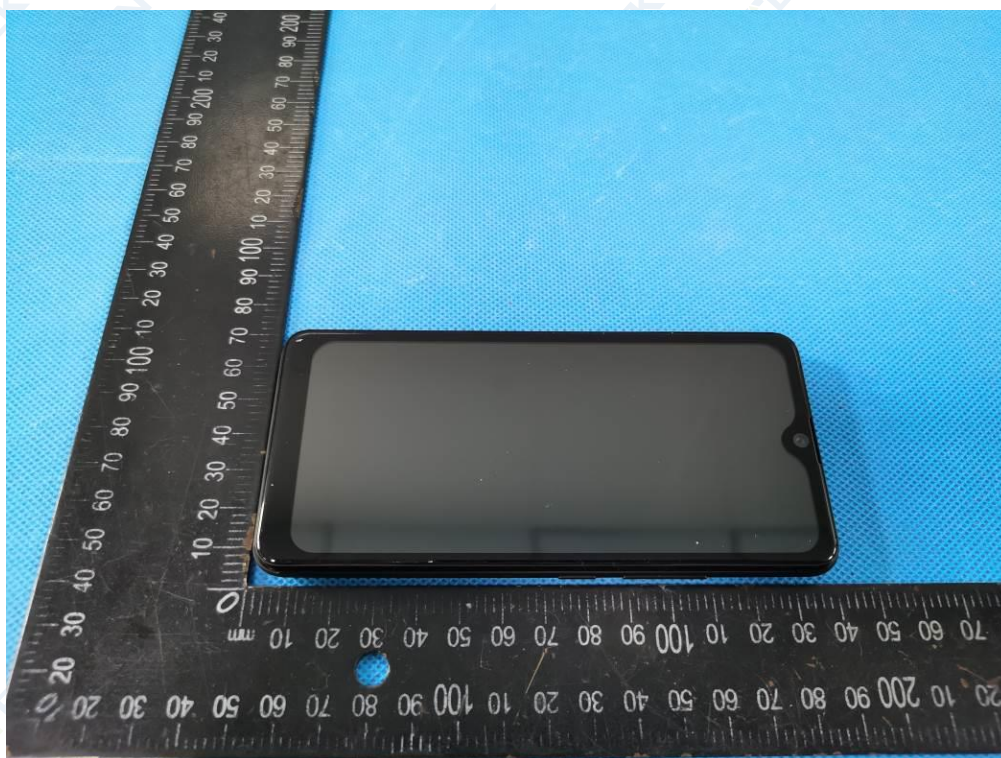




Photo 3

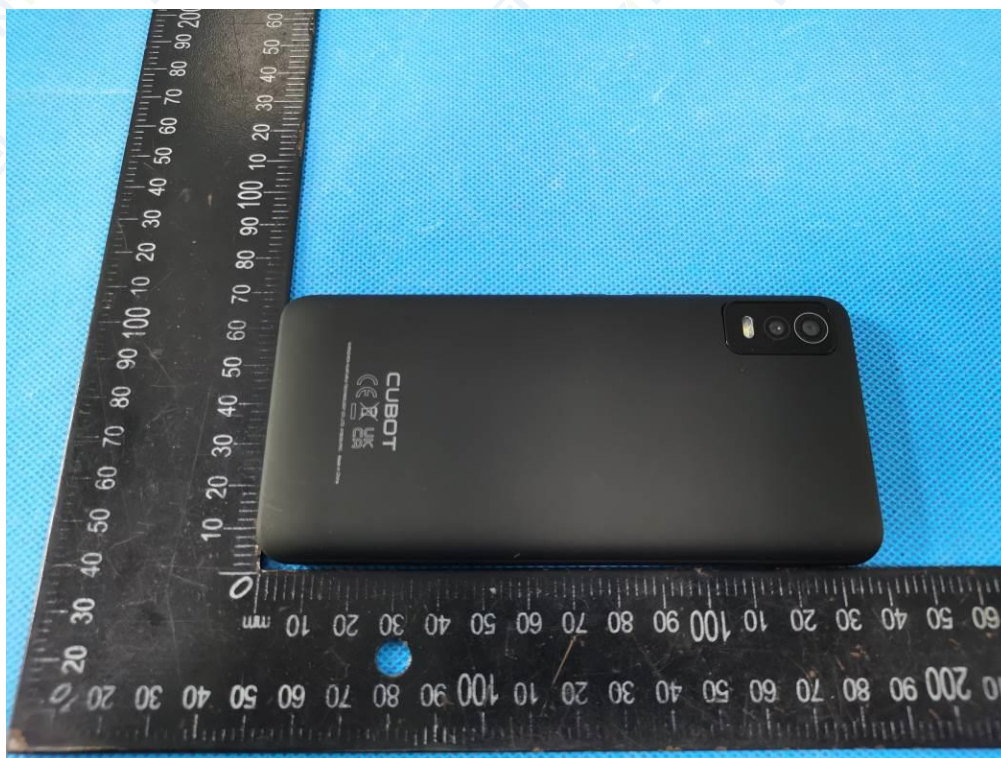


Photo 4

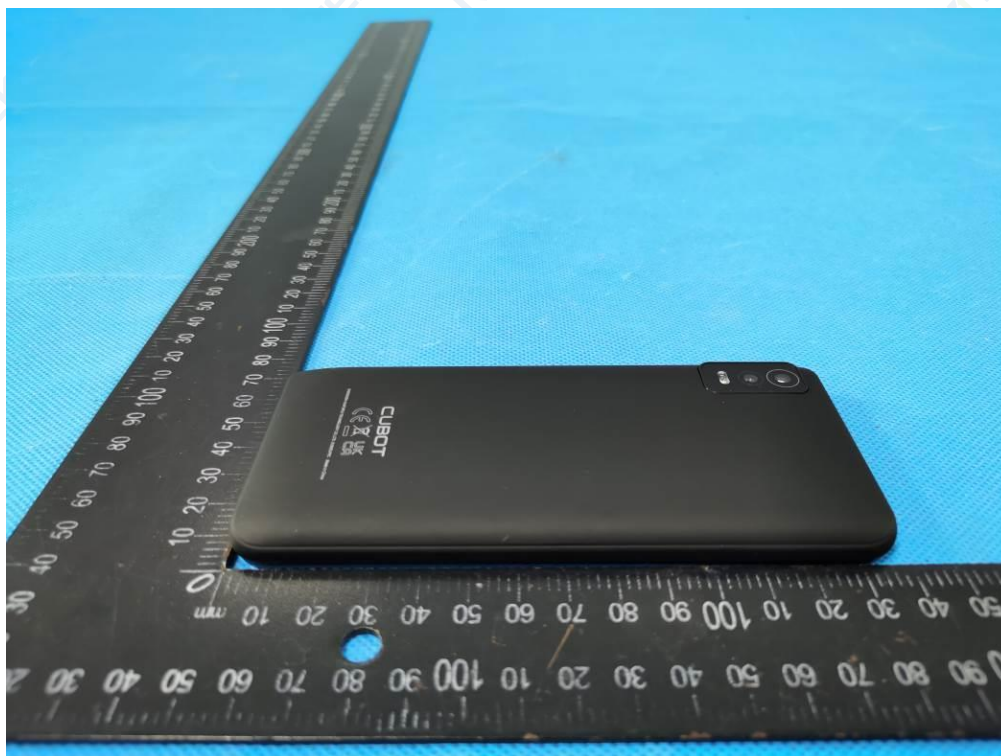


Photo 5



Photo 6





Photo 7



Photo 8





Photo 9



Photo 10

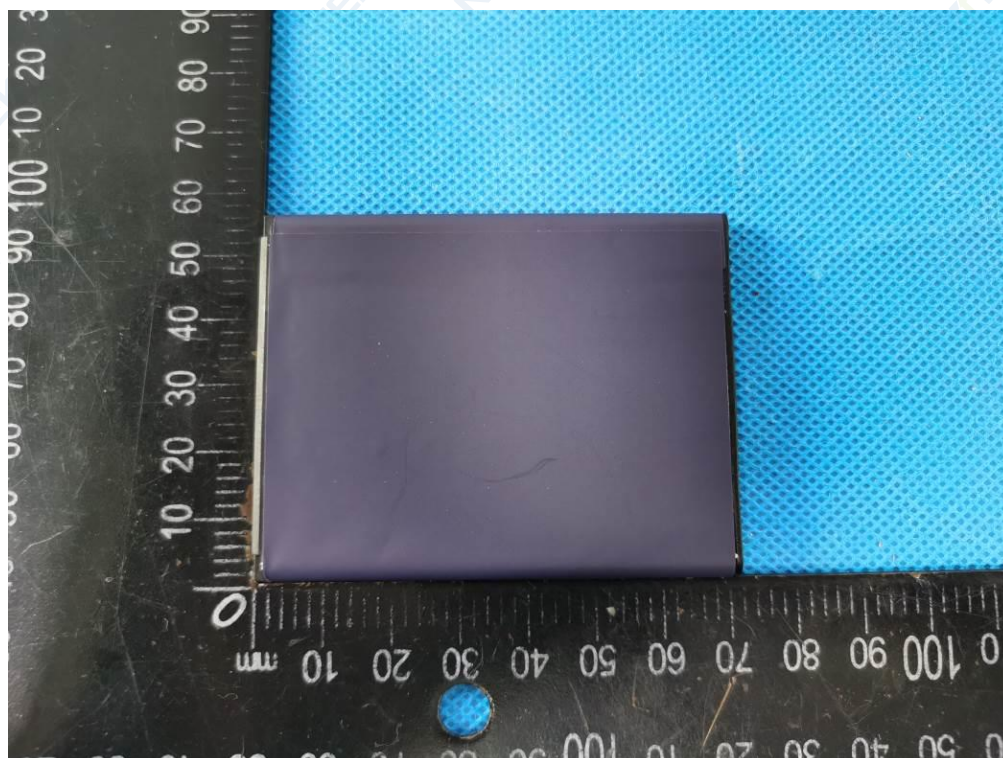




Photo 11

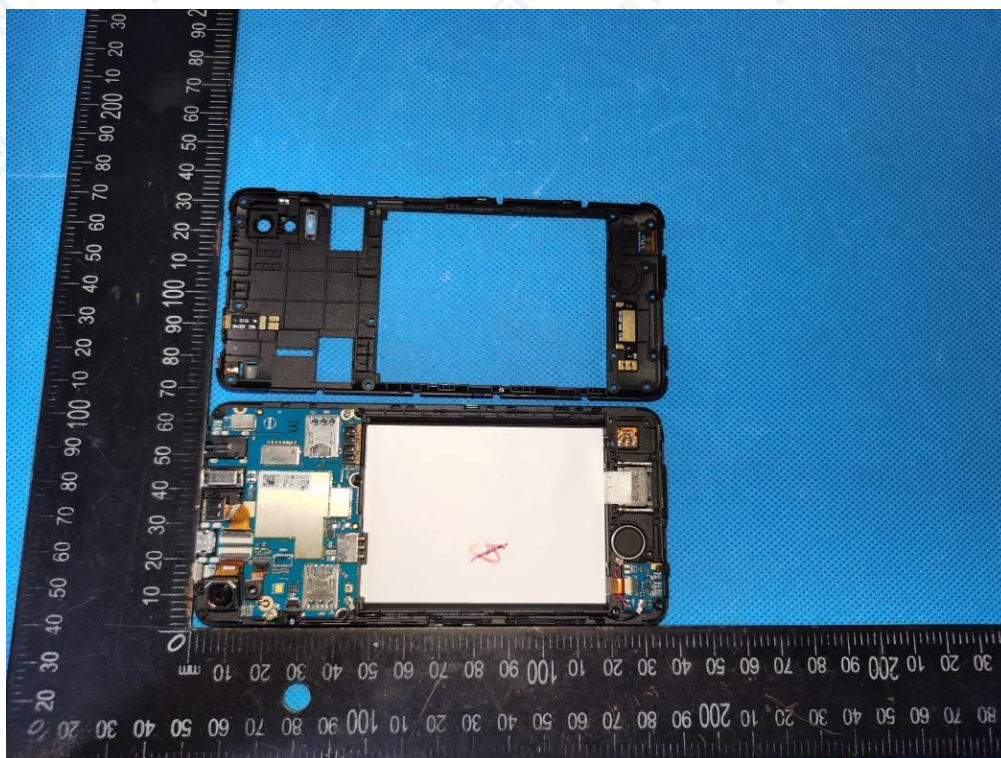


Photo 12

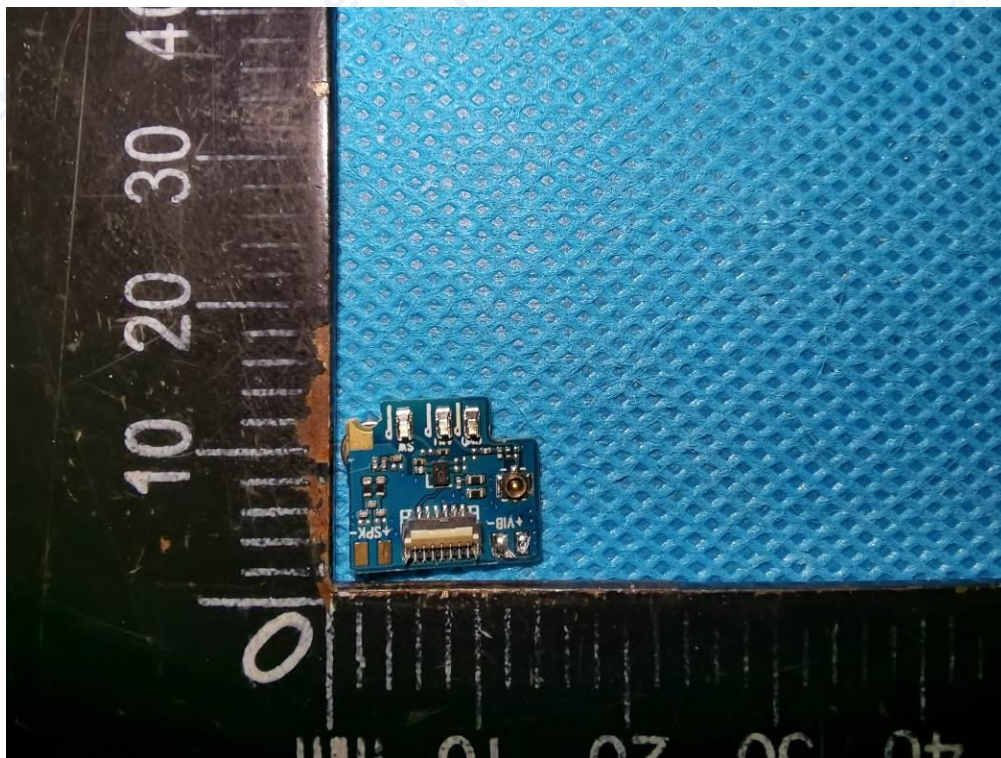




Photo 13

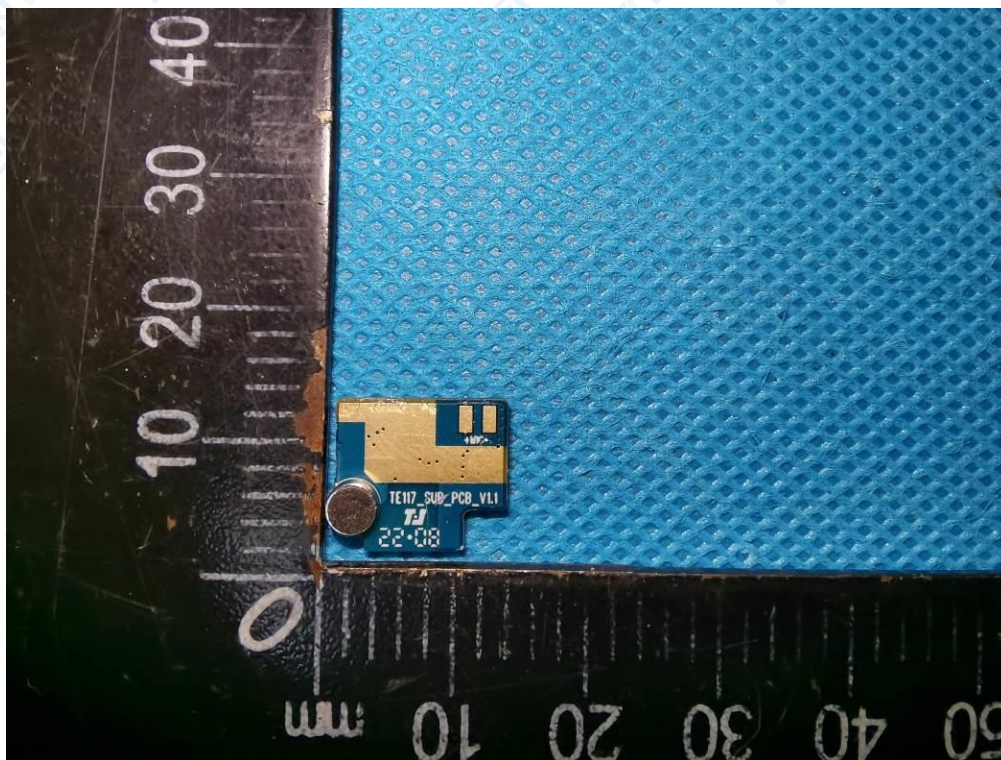


Photo 14

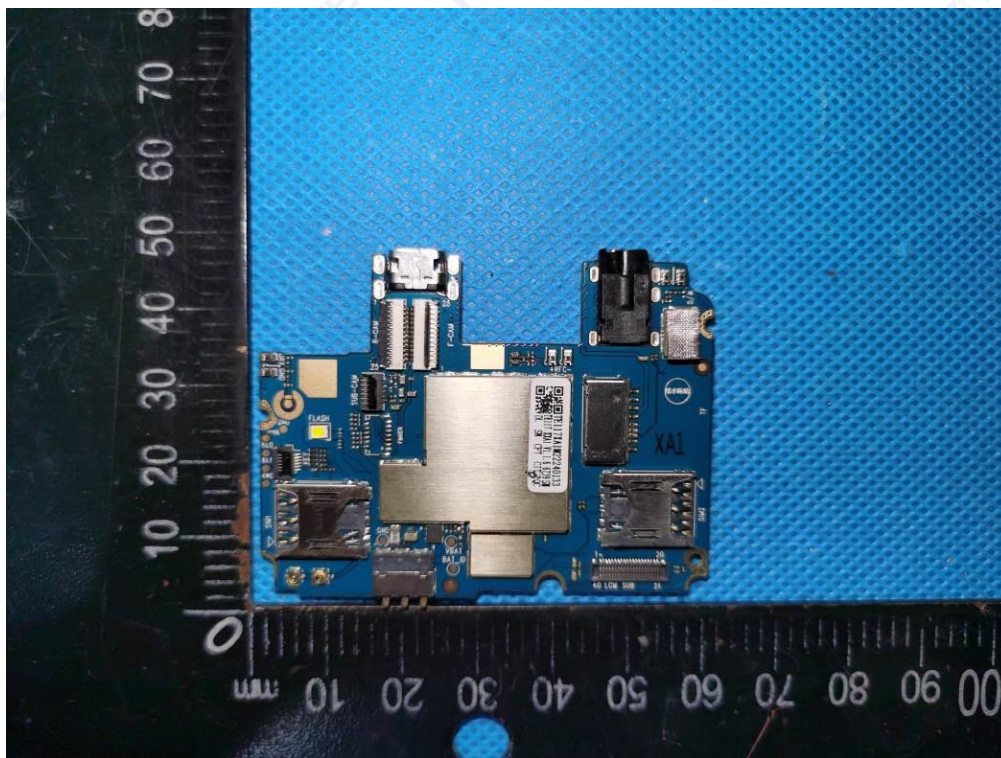




Photo 15

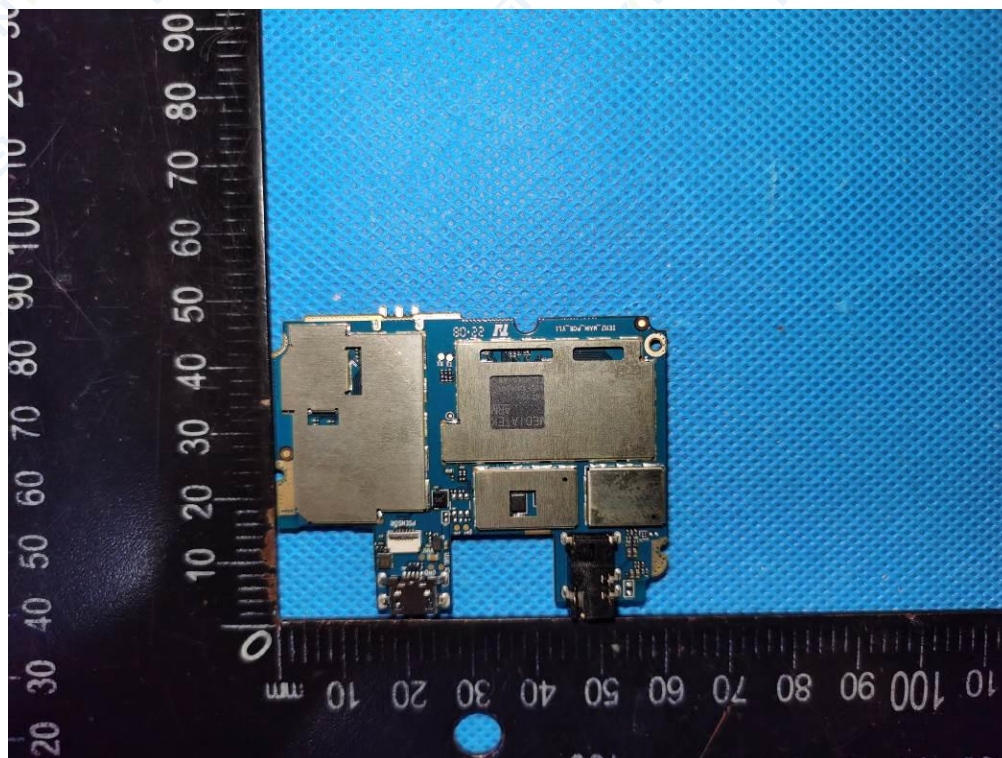


Photo 16

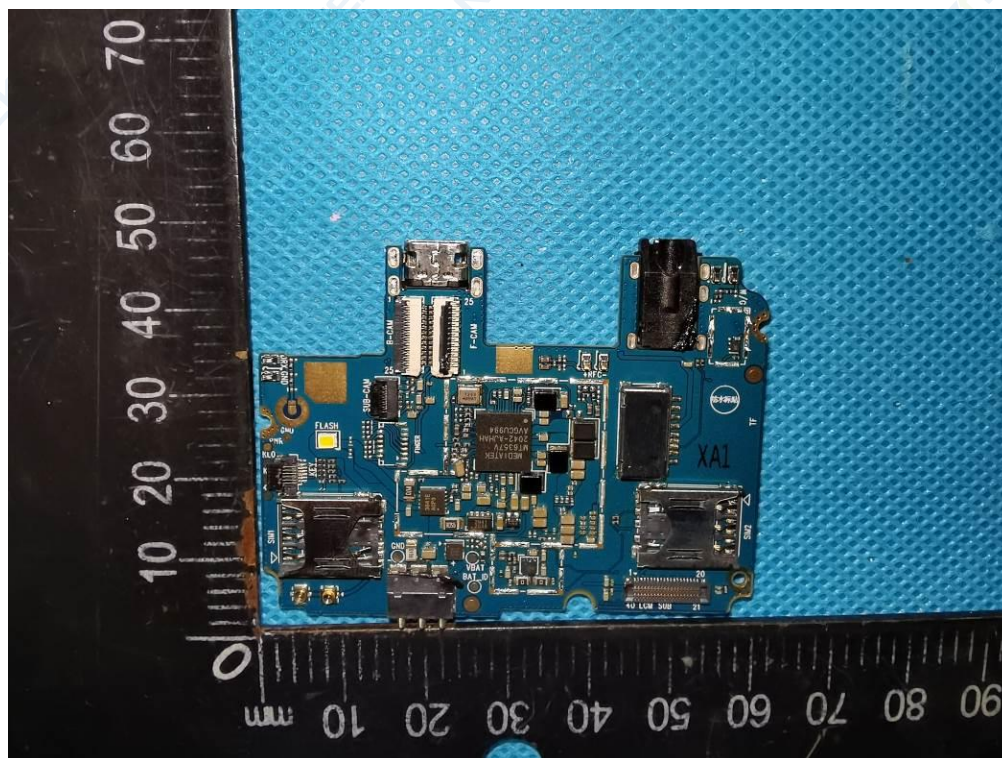




Photo 17

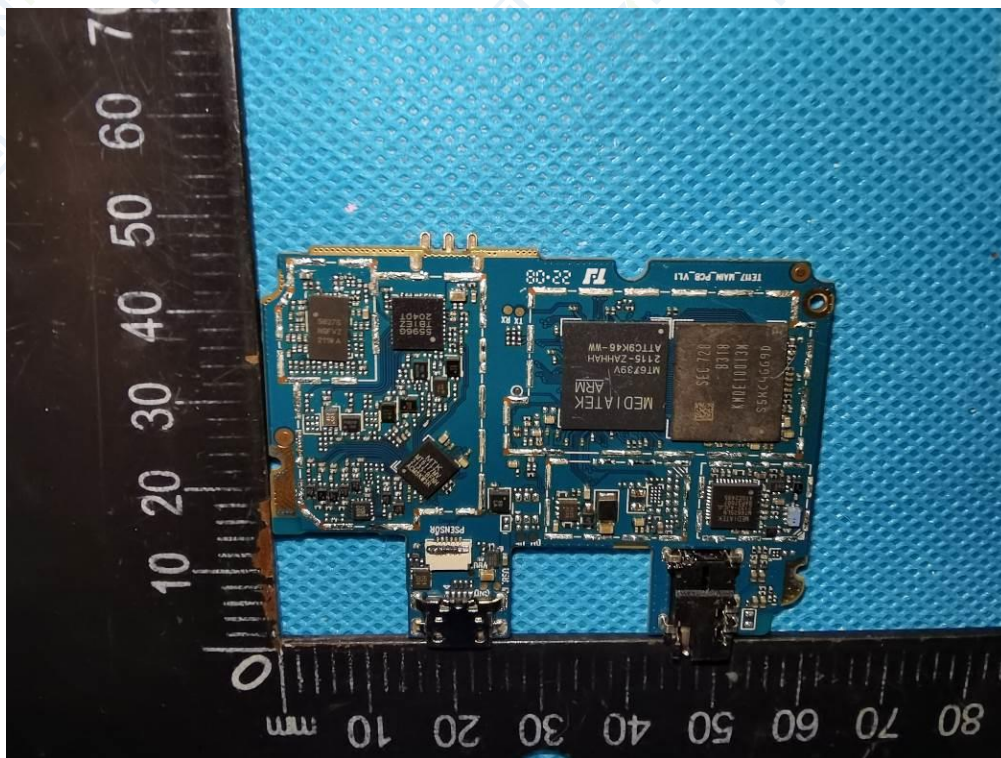


Photo 18

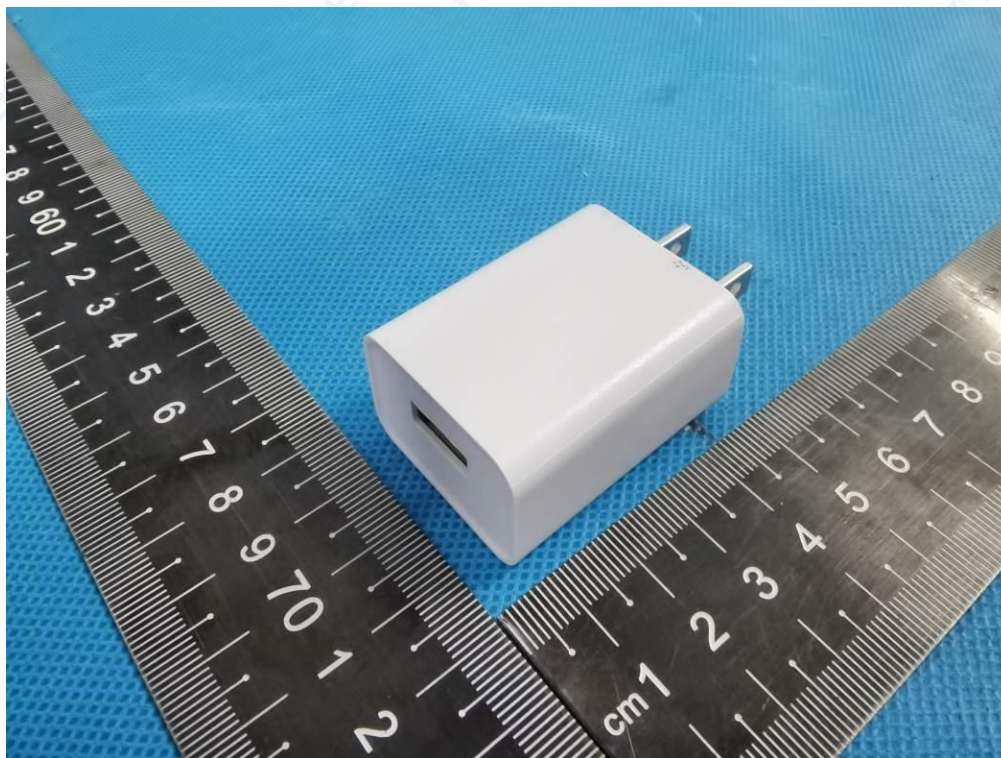




Photo 19



Photo 20



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