

FCC EMC Test Report



Subject to

Supplier's Declaration of Conformity

Procedure

Product : Mobile Phone

Trade Mark : ulefone

Model Number : GQ3103, Power Armor 16 Pro,
Power Armor 16, Power Armor 16S,
Power Armor 16E, Power Armor 16P,
Power Armor 16 Plus, Power Armor 16 Lite

Prepared for

Shenzhen Ulefone Technology Co., Ltd.

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name: Shenzhen Ulefone Technology Co., Ltd.
Address.....: 7A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua
District, Shenzhen City, Guangdong Province China
Manufacturer's Name.....: Shenzhen Ulefone Technology Co., Ltd.
Address.....: 7A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua
District, Shenzhen City, Guangdong Province China

Product description

Product name.....: Mobile Phone
GQ3103, Power Armor 16 Pro, Power Armor 16,
Model and/or type reference ...: Power Armor 16S, Power Armor 16E, Power Armor 16P,
Power Armor 16 Plus, Power Armor 16 Lite
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.

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Test Sample Number: T220705002R003

Date of Test

Date (s) of performance of tests: 26 Jul. 2022 ~ 05 Aug. 2022

Date of Issue: 05 Aug. 2022

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

Testing Engineer :

Allen. Huang

(Allen Huang)

Technical Manager :

Sky. Zhang

(Sky Zhang)

Authorized Signatory :

Alex

(Alex)

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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

[illegible]

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone	
Model Name	GQ3103	
Additional Model Number(s)	Power Armor 16 Pro, Power Armor 16, Power Armor 16S, Power Armor 16E, Power Armor 16P, Power Armor 16 Plus, Power Armor 16 Lite	
Model Difference	All models are identical except model's name.	
Product Description	The EUT is a Mobile Phone.	
	Operating frequency:	2.4 GHz by 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-FC038K7-US Adapter Rating: Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 3.0A OR DC 9.0V, 2.0A OR DC 12.0V, 1.5A Battery Rating: DC 3.85V, 9600mAh, 36.96Wh	

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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.

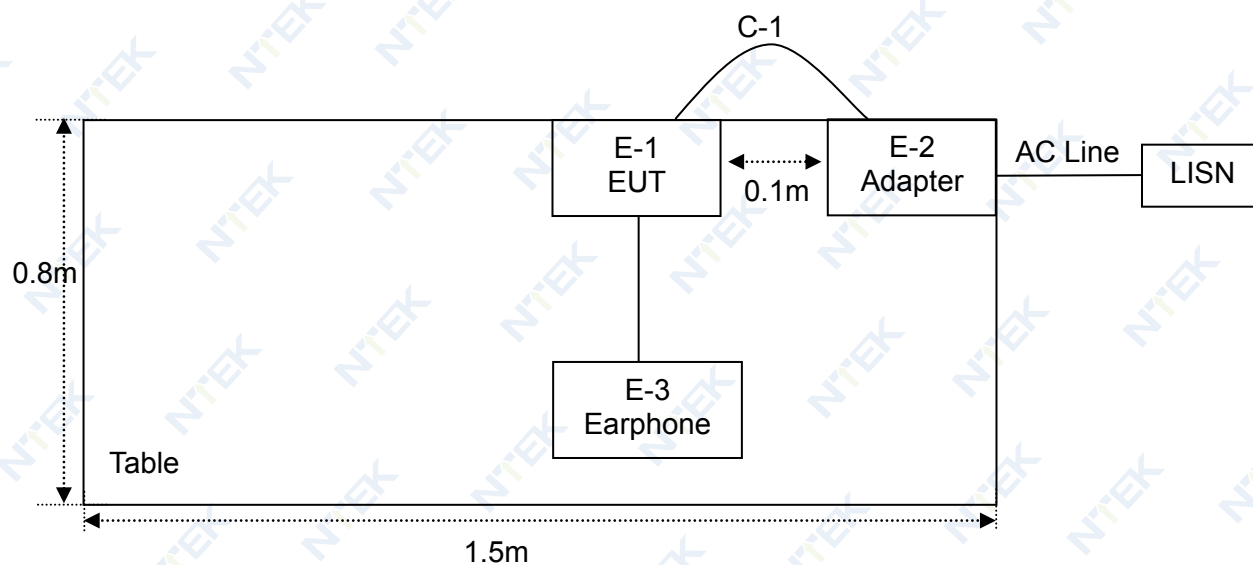
Pretest Mode	Description
Mode 1	Charging + TF Playing
Mode 2	Charging + REC(Front / Rear)
Mode 3	Data Transmission
Mode 4	Charging + FM(87.6MHz / 98MHz / 107.9MHz)

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging + TF Playing
Mode 2	Charging + REC(Front / Rear)
Mode 3	Data Transmission
Mode 4	Charging + FM(98MHz)

For Radiated Test	
Final Test Mode	Description
Mode 1	Charging + TF Playing
Mode 2	Charging + REC(Front / Rear)
Mode 3	Data Transmission
Mode 4	Charging + FM(87.6MHz / 98MHz / 107.9MHz)

2.3 DESCRIPTION OF TEST SETUP

Mode CE: Charging + 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	Mobile Phone	ulefone	GQ3103	N/A	EUT
E-2	Adapter	ulefone	HJ-FC038K7-US	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	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	Jun. 28, 2022	Jun. 27, 2023	1 year
2	Single Phase LISN	R&S	ENV216	101313	Apr. 06, 2022	Apr. 05, 2023	1 year
3	Three-Phase LISN	SCHWARZB ECK	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	PE332-1000C M	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	EMC051835S E	980246	Jun. 17, 2022	Jun. 16, 2023	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)	☐ Class A (dBμV)		☒ Class B (dBμV)	
	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.

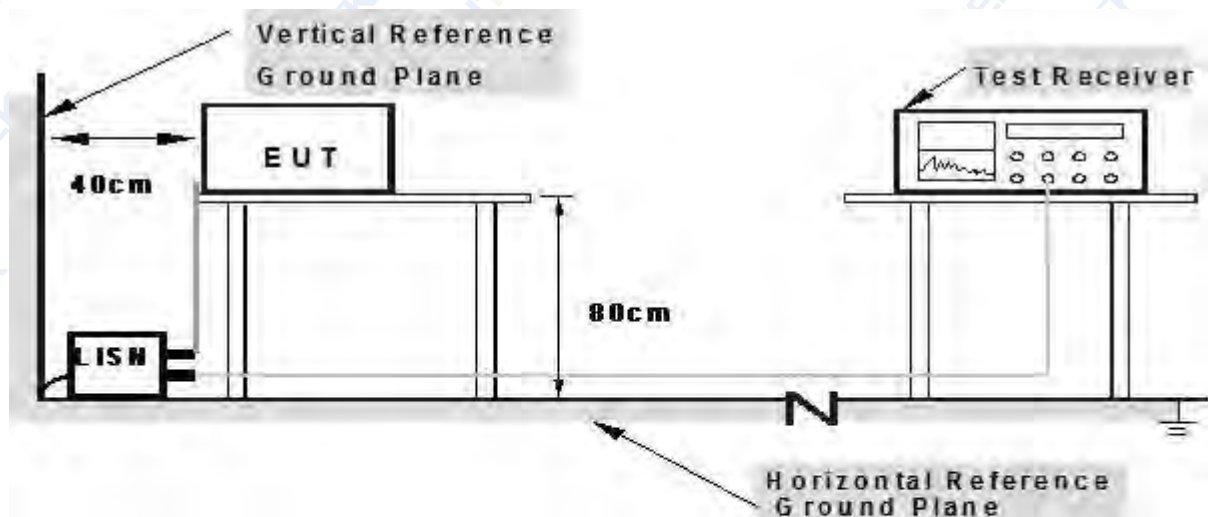
The following table is the setting of the receiver

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.

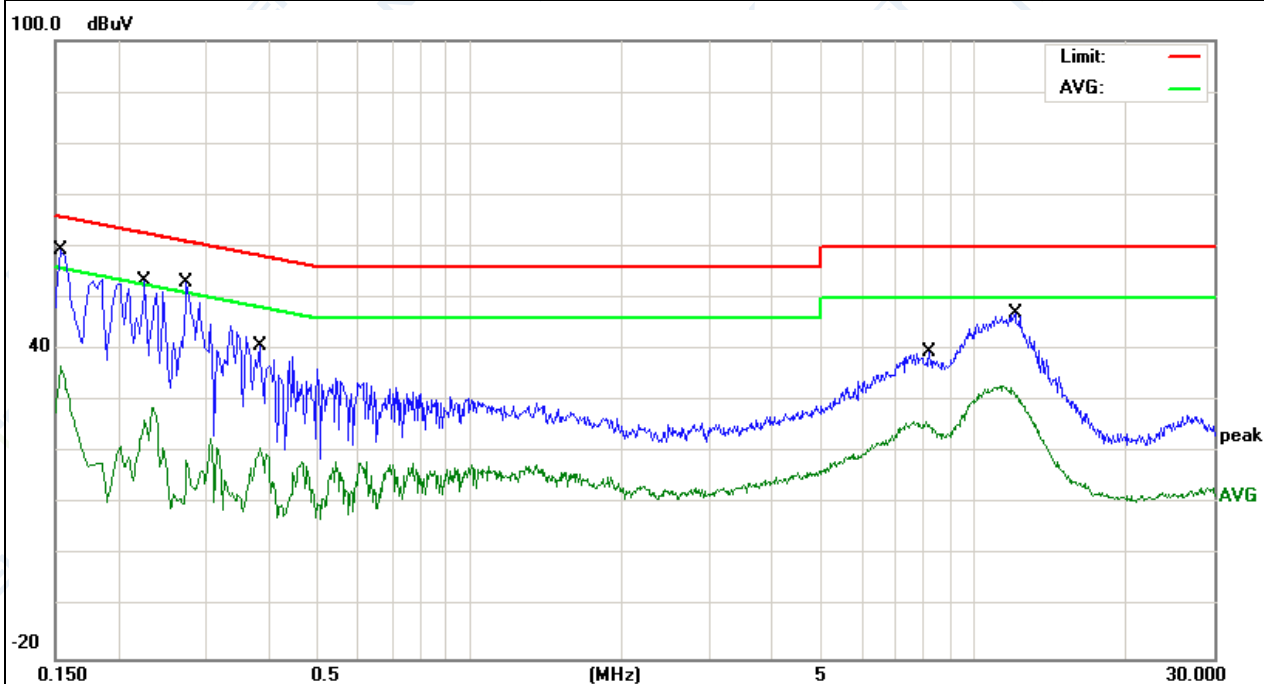
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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:	Mobile Phone	Model Name:	GQ3103
Temperature:	20.2℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-07-28
Test Mode:	Charging + TF Playing	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	*	0.1539	49.78	9.60	59.38	65.78	-6.40	QP	
2		0.1539	27.10	9.60	36.70	55.78	-19.08	AVG	
3		0.2260	43.59	9.63	53.22	62.59	-9.37	QP	
4		0.2260	19.11	9.63	28.74	52.59	-23.85	AVG	
5		0.2740	43.49	9.63	53.12	60.99	-7.87	QP	
6		0.2740	8.94	9.63	18.57	50.99	-32.42	AVG	
7		0.3820	31.14	9.65	40.79	58.23	-17.44	QP	
8		0.3820	11.36	9.65	21.01	48.23	-27.22	AVG	
9		8.1859	29.82	9.87	39.69	60.00	-20.31	QP	
10		8.1859	16.08	9.87	25.95	50.00	-24.05	AVG	
11		12.0699	36.97	10.00	46.97	60.00	-13.03	QP	
12		12.0699	23.07	10.00	33.07	50.00	-16.93	AVG	

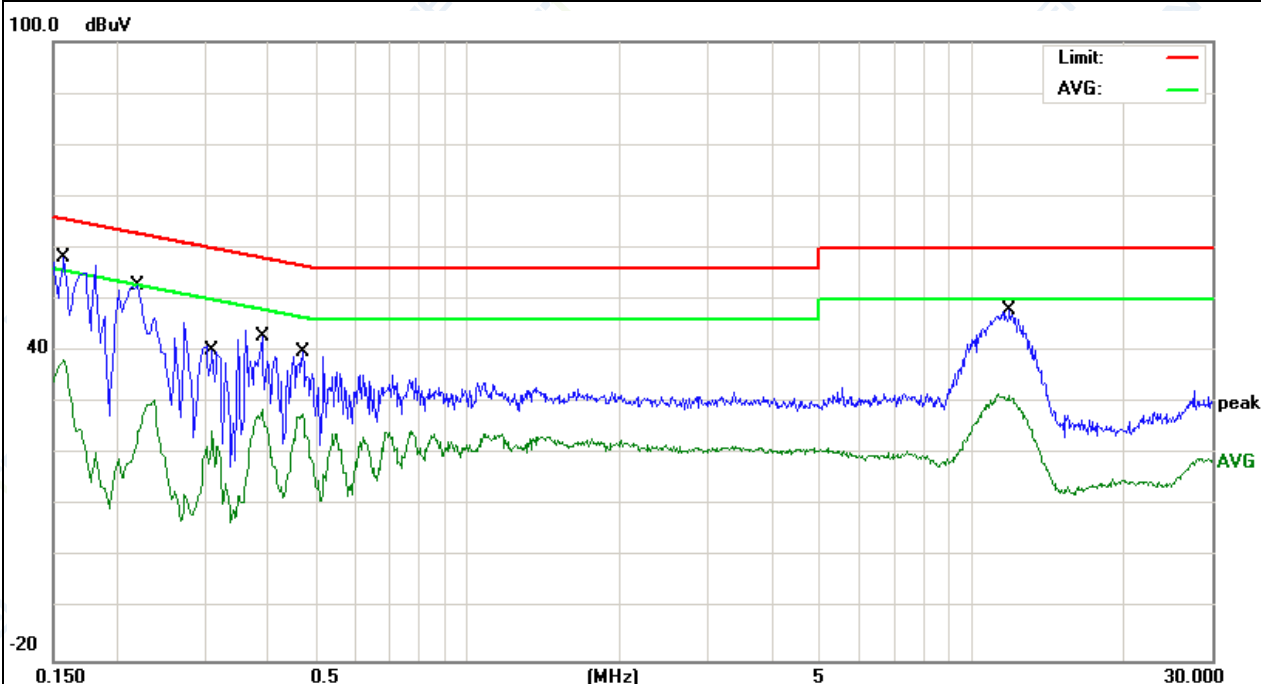
Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3103
Temperature:	20.2℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-07-28
Test Mode:	Charging + TF Playing	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	*	0.1580	48.50	9.65	58.15	65.56	-7.41	QP	
2		0.1580	28.68	9.65	38.33	55.56	-17.23	AVG	
3		0.2220	43.00	9.63	52.63	62.74	-10.11	QP	
4		0.2220	21.00	9.63	30.63	52.74	-22.11	AVG	
5		0.3099	30.37	9.64	40.01	59.97	-19.96	QP	
6		0.3099	14.91	9.64	24.55	49.97	-25.42	AVG	
7		0.3899	33.16	9.66	42.82	58.06	-15.24	QP	
8		0.3899	19.17	9.66	28.83	48.06	-19.23	AVG	
9		0.4698	30.11	9.66	39.77	56.52	-16.75	QP	
10		0.4698	18.05	9.66	27.71	46.52	-18.81	AVG	
11		11.9177	38.12	9.96	48.08	60.00	-11.92	QP	
12		11.9177	21.65	9.96	31.61	50.00	-18.39	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)	☐ Class A (at 3m)	☒ 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:

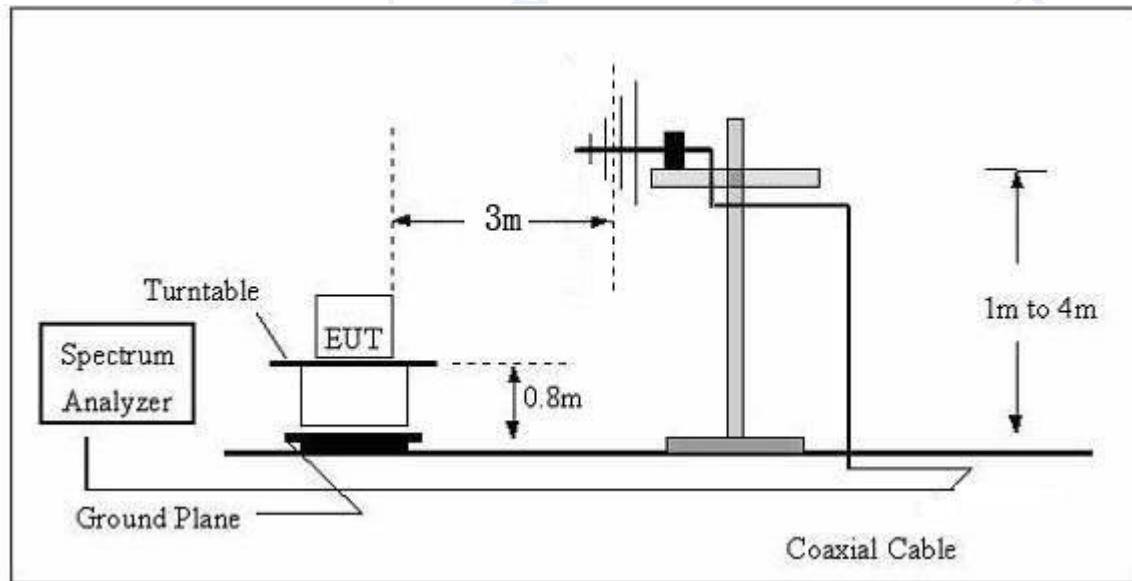
- (1) The limit for radiated test was performed according to as following: FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBµV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

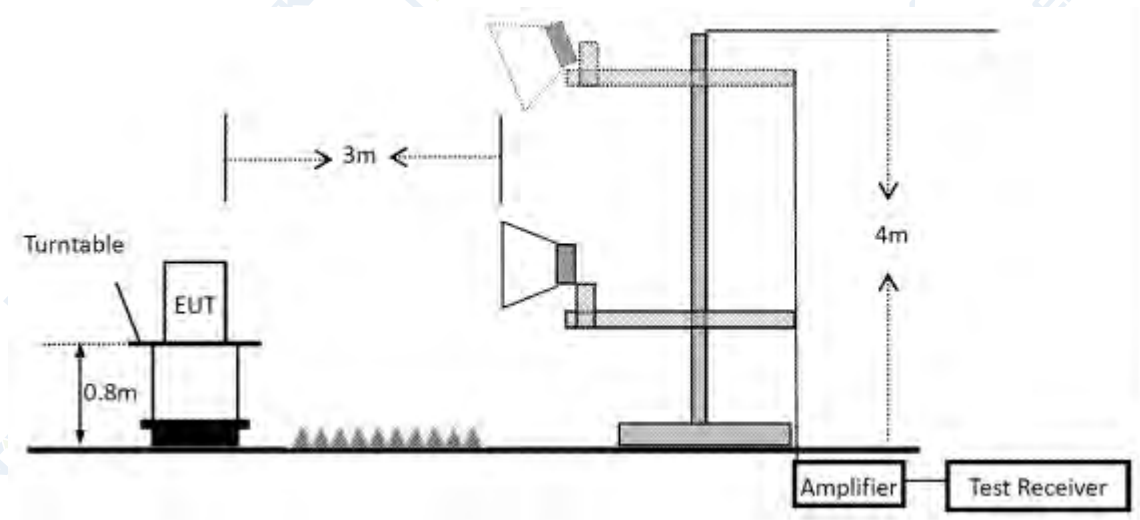
- a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated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

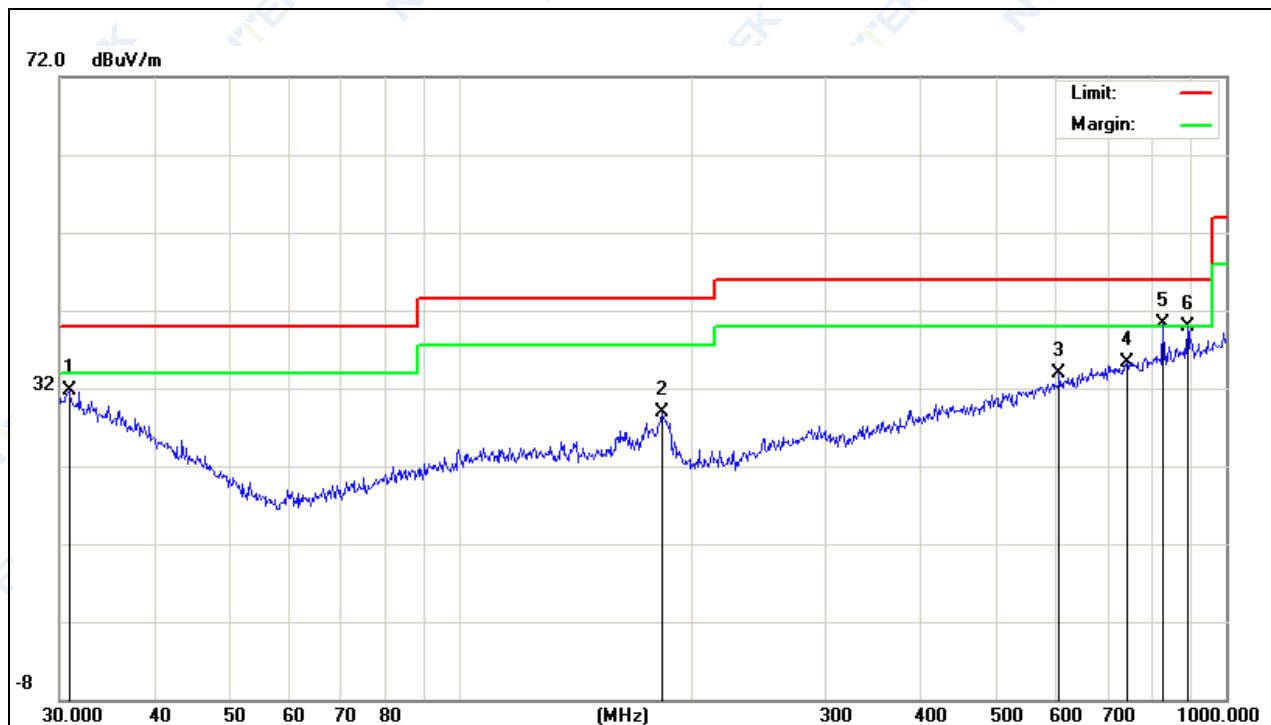


3.2.4 EUT OPERATING CONDITIONS

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:	Mobile Phone	Model Name:	GQ3103
Temperature:	25.5℃	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2022-07-30
Test Mode:	Charging + TF Playing	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		30.8535	5.97	25.82	31.79	40.00	-8.21	QP		
2		183.2005	12.23	16.66	28.89	43.50	-14.61	QP		
3		605.6592	7.26	26.61	33.87	46.00	-12.13	QP		
4		742.2586	6.67	28.64	35.31	46.00	-10.69	QP		
5	*	827.4934	10.79	29.45	40.24	46.00	-5.76	QP		
6		890.7278	9.44	30.41	39.85	46.00	-6.15	QP		

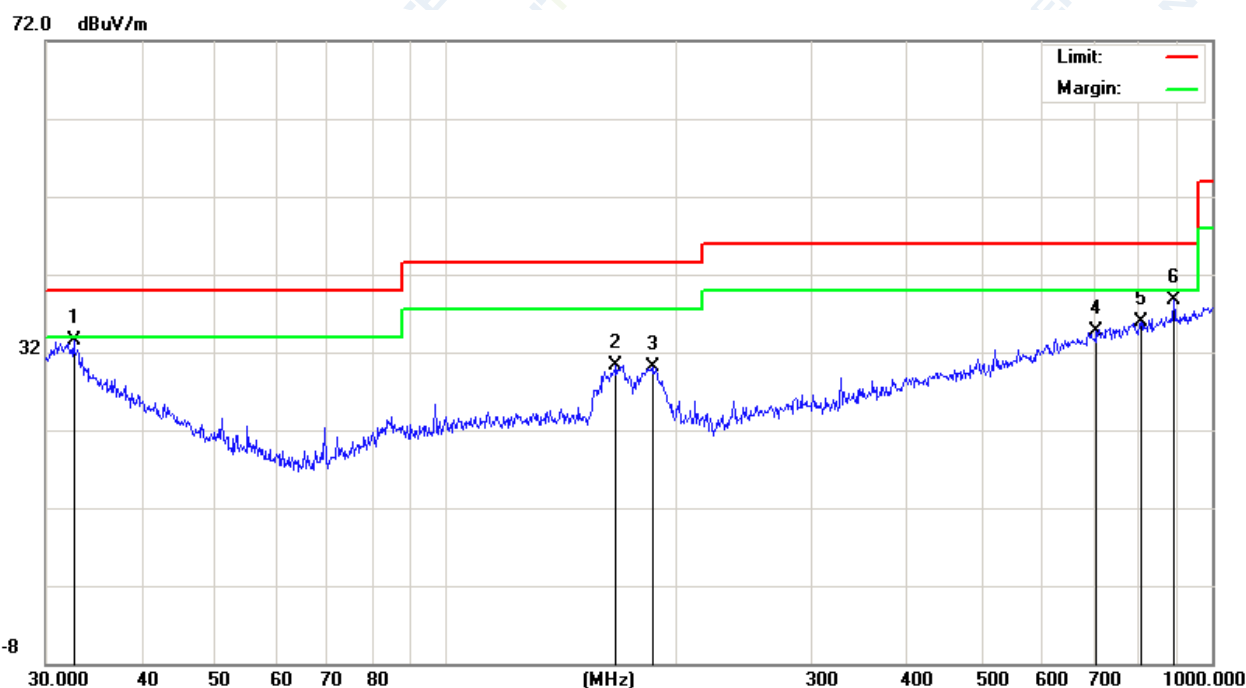
Remark:

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

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3103
Temperature:	25.5℃	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2022-07-30
Test Mode:	Charging + TF Playing	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	*	32.6340	9.06	24.52	33.58	40.00	-6.42	QP		
2		166.6512	12.93	17.38	30.31	43.50	-13.19	QP		
3		186.4407	13.59	16.56	30.15	43.50	-13.35	QP		
4		706.6997	6.57	28.08	34.65	46.00	-11.35	QP		
5		807.4289	6.37	29.62	35.99	46.00	-10.01	QP		
6		890.7278	8.36	30.41	38.77	46.00	-7.23	QP		

Remark:

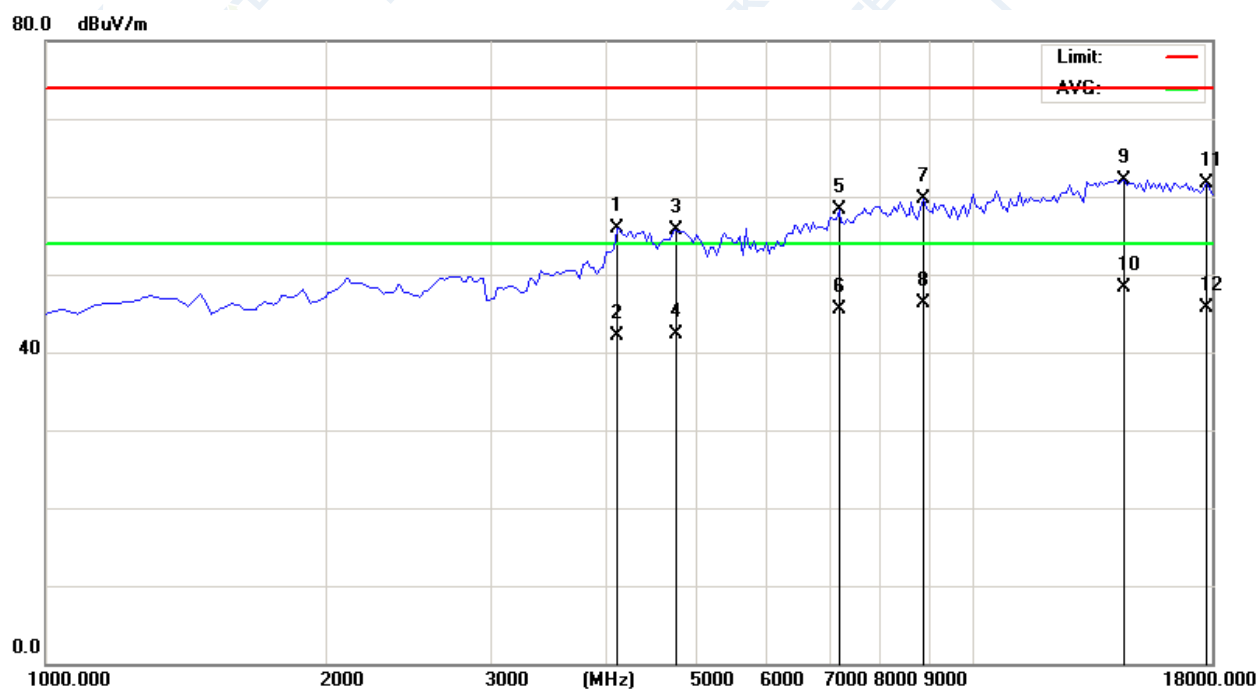
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

3.2.6 TEST RESULTS(Above 1000MHz)

EUT:	Mobile Phone	Model Name:	GQ3103
Temperature:	25.5℃	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2022-07-31
Test Mode:	Charging + TF Playing	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 degree	Comment
1		4145.000	38.07	17.83	55.90	74.00	-18.10	peak		
2		4145.000	24.28	17.83	42.11	54.00	-11.89	AVG		
3		4782.500	36.28	19.50	55.78	74.00	-18.22	peak		
4		4782.500	22.80	19.50	42.30	54.00	-11.70	AVG		
5		7162.500	35.86	22.54	58.40	74.00	-15.60	peak		
6		7162.500	23.06	22.54	45.60	54.00	-8.40	AVG		
7		8820.000	36.09	23.64	59.73	74.00	-14.27	peak		
8		8820.000	22.71	23.64	46.35	54.00	-7.65	AVG		
9		14557.50	32.61	29.46	62.07	74.00	-11.93	peak		
10	*	14557.50	18.75	29.46	48.21	54.00	-5.79	AVG		
11		17745.00	27.97	33.76	61.73	74.00	-12.27	peak		
12		17745.00	11.94	33.76	45.70	54.00	-8.30	AVG		

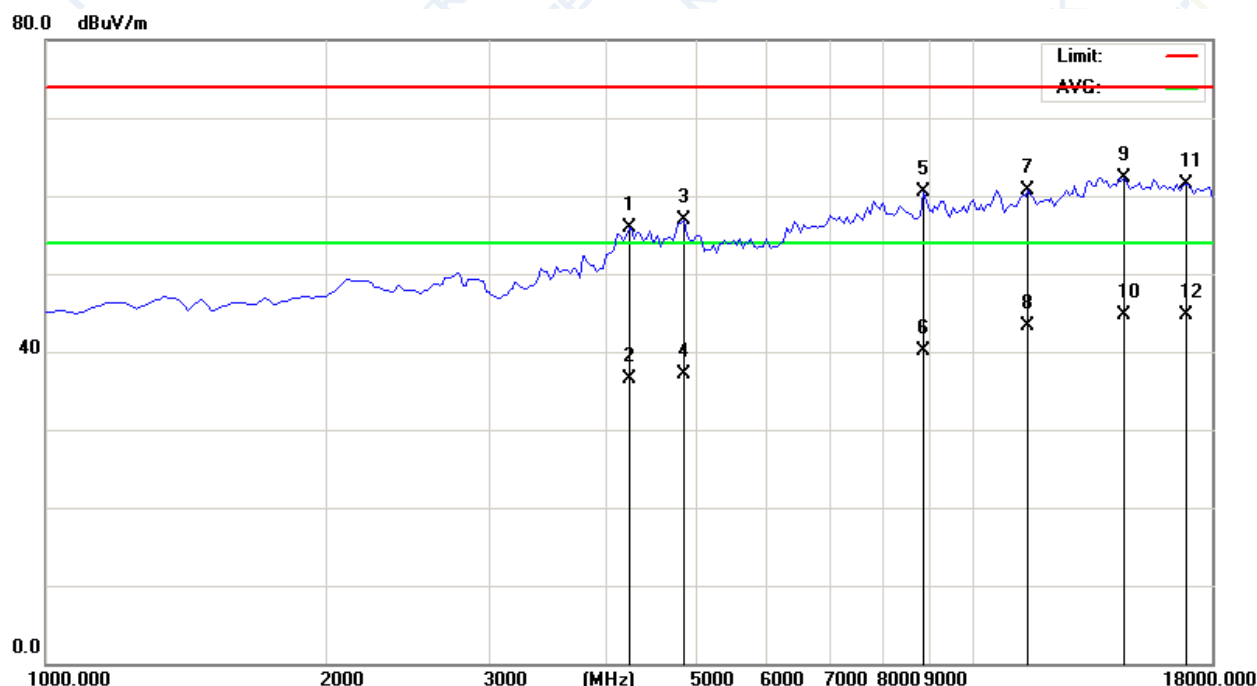
Remark:

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

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3103
Temperature:	25.5°C	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2022-07-31
Test Mode:	Charging + TF Playing	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 degree	Comment
1		4272.500	38.04	17.82	55.86	74.00	-18.14			peak
2		4272.500	18.78	17.82	36.60	54.00	-17.40			AVG
3		4867.500	37.20	19.70	56.90	74.00	-17.10			peak
4		4867.500	17.50	19.70	37.20	54.00	-16.80			AVG
5		8820.000	36.96	23.64	60.60	74.00	-13.40			peak
6		8820.000	16.56	23.64	40.20	54.00	-13.80			AVG
7		11455.00	35.08	25.56	60.64	74.00	-13.36			peak
8		11455.00	17.74	25.56	43.30	54.00	-10.70			AVG
9		14515.00	33.21	29.13	62.34	74.00	-11.66			peak
10	*	14515.00	15.67	29.13	44.80	54.00	-9.20			AVG
11		16937.50	27.99	33.59	61.58	74.00	-12.42			peak
12		16937.50	11.11	33.59	44.70	54.00	-9.30			AVG

Remark:

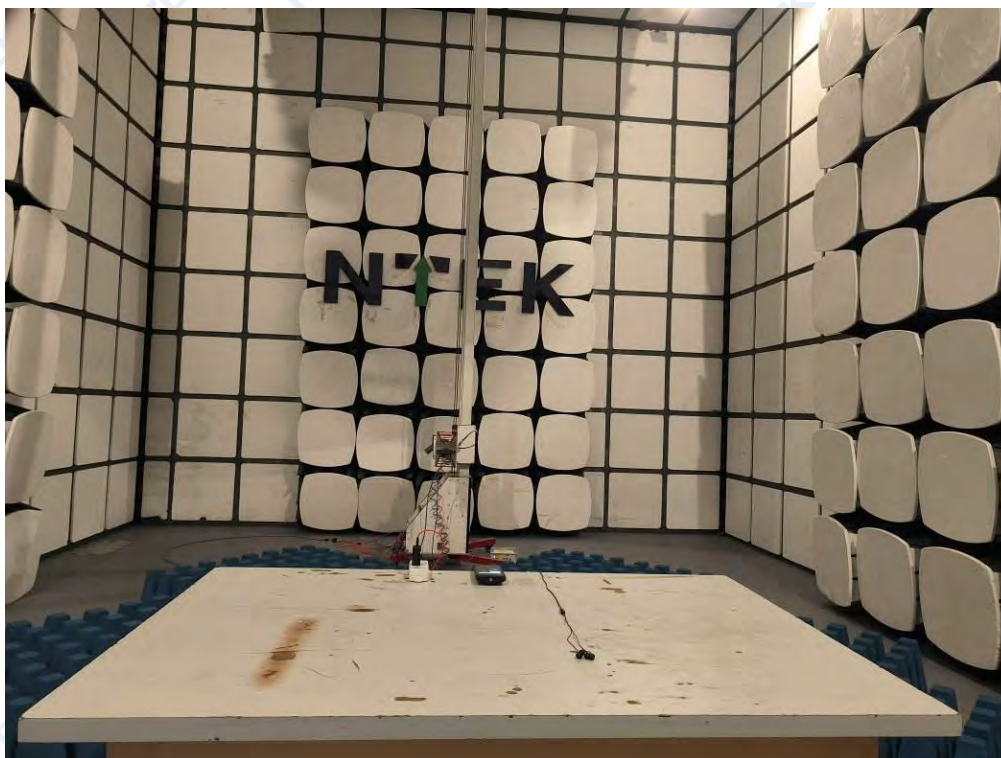
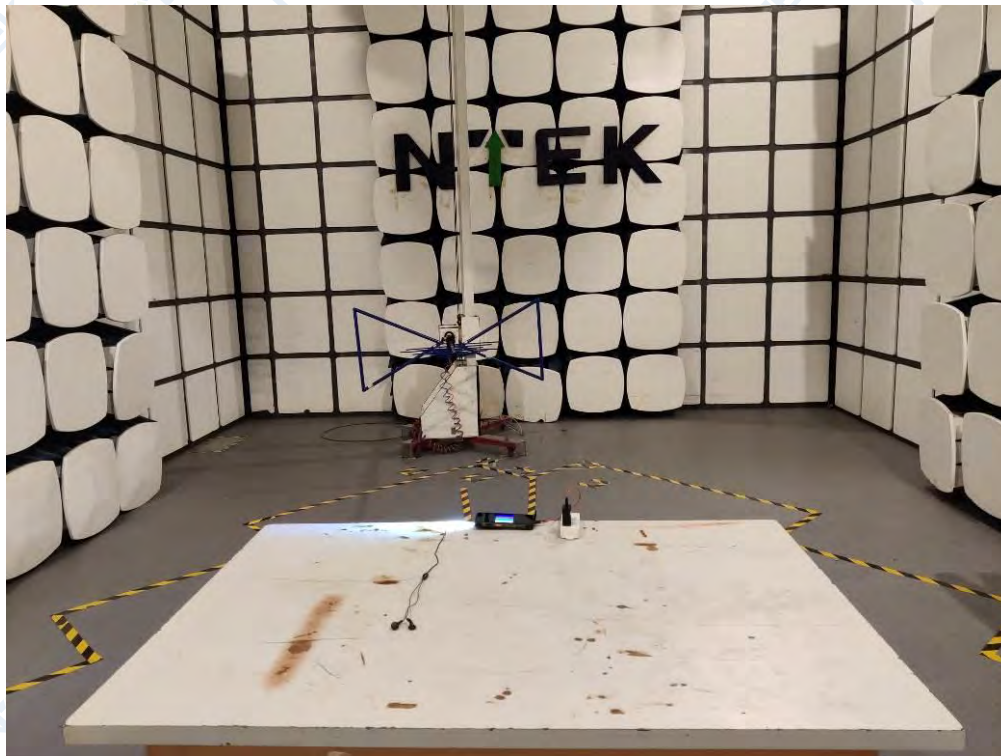
Correct Factor = Antenna Factor + Cable Loss – Pre-Amplifier gain

Measurement Level = Reading Level + Correct Factor

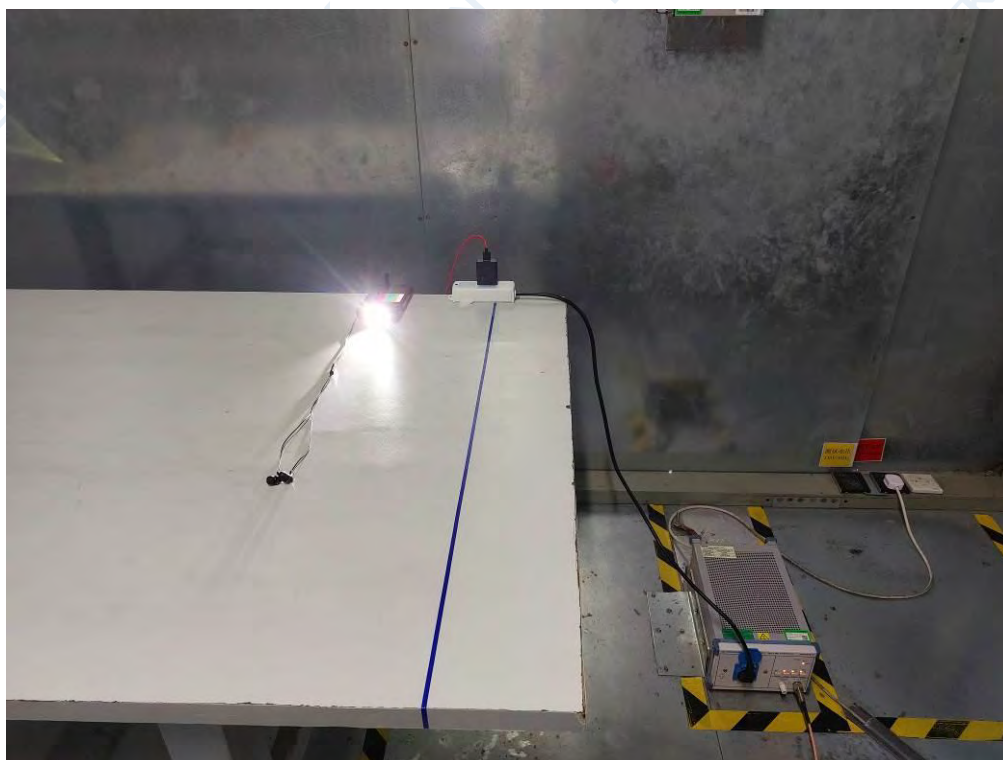
Over Level = Measurement Level - Limit

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

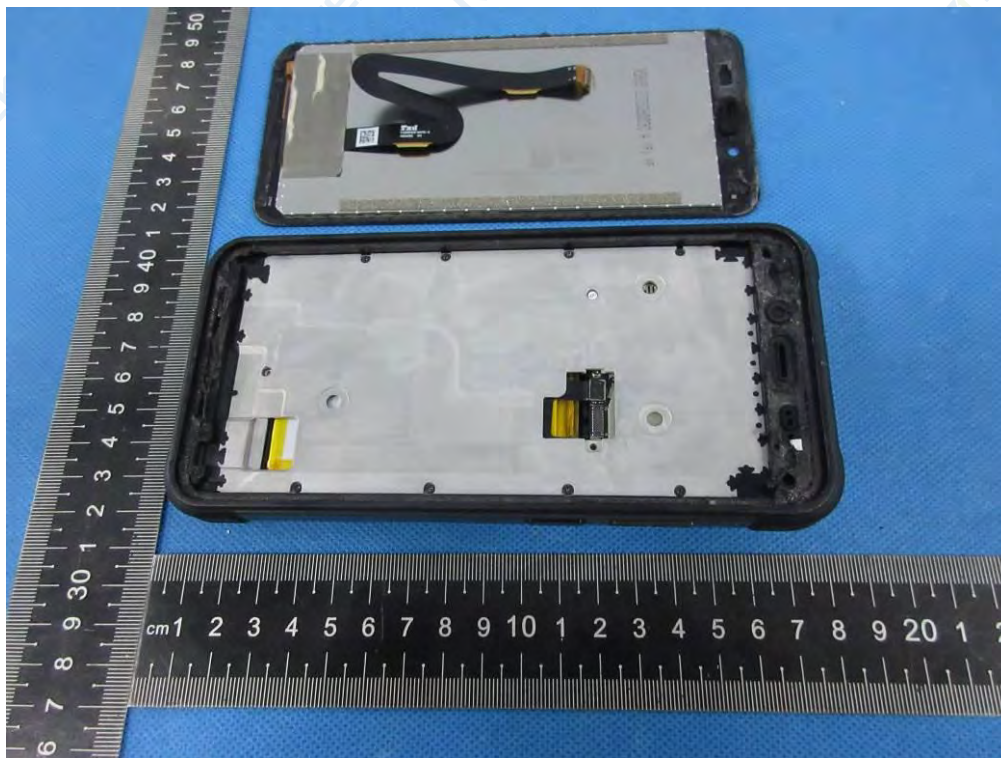


Photo 11

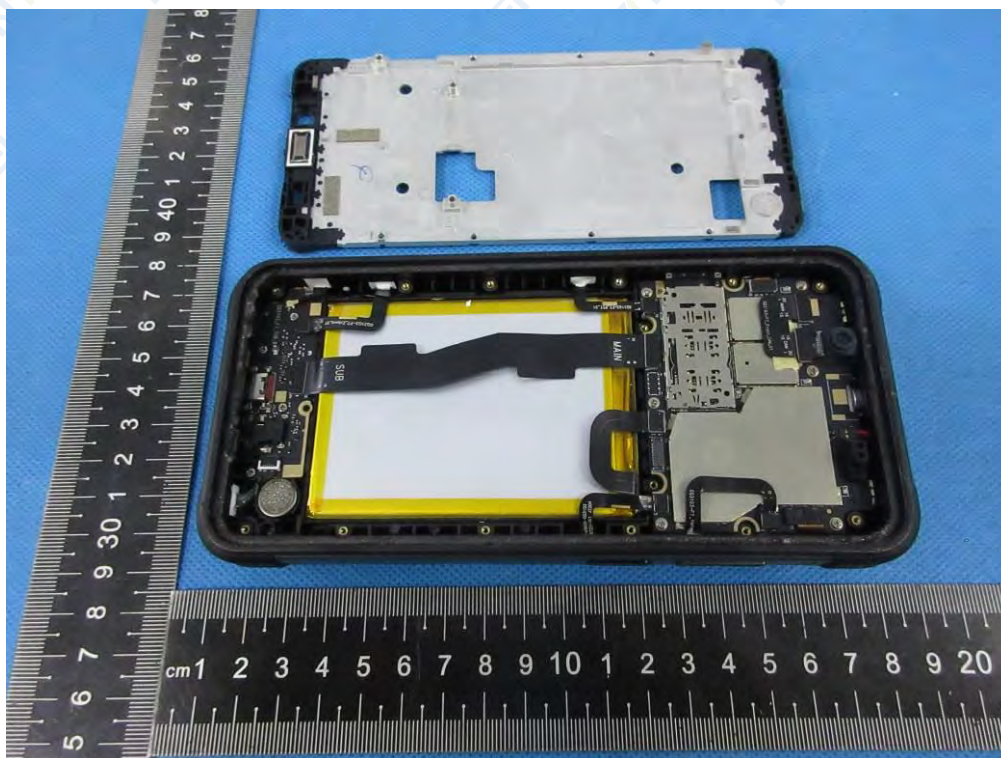


Photo 12

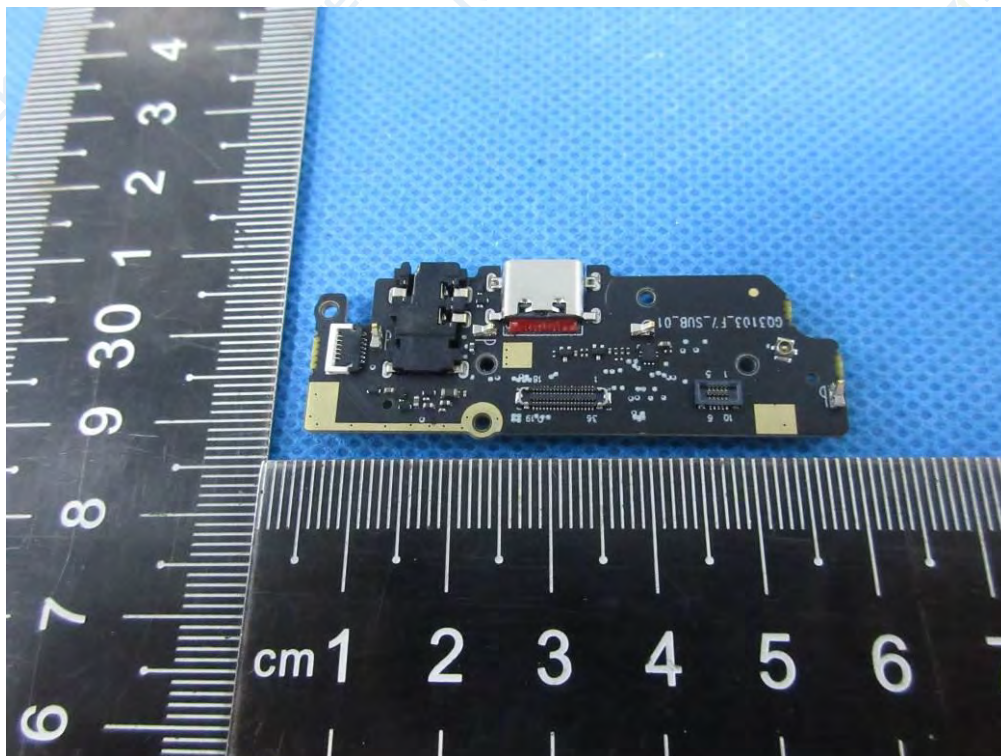


Photo 13

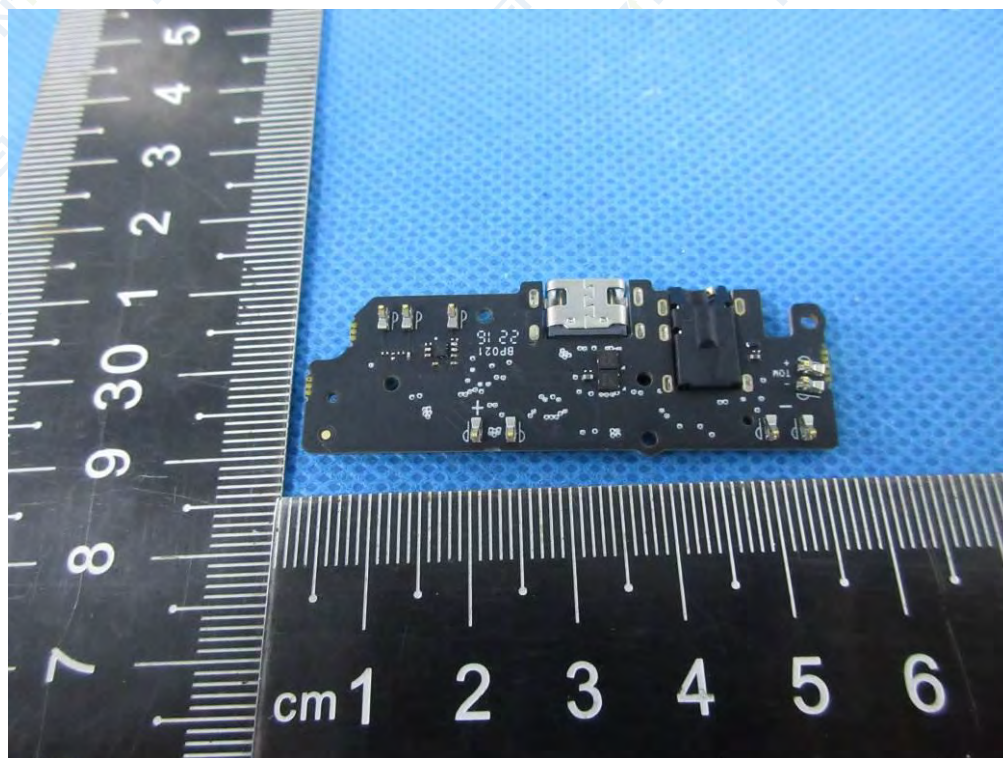


Photo 14

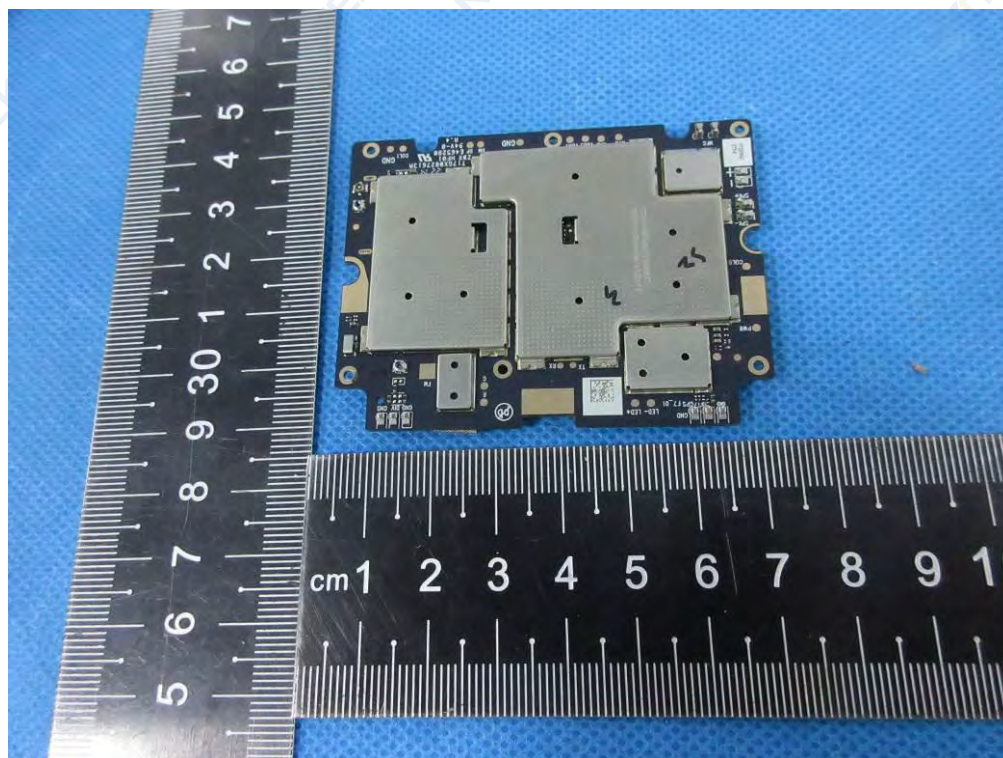


Photo 15

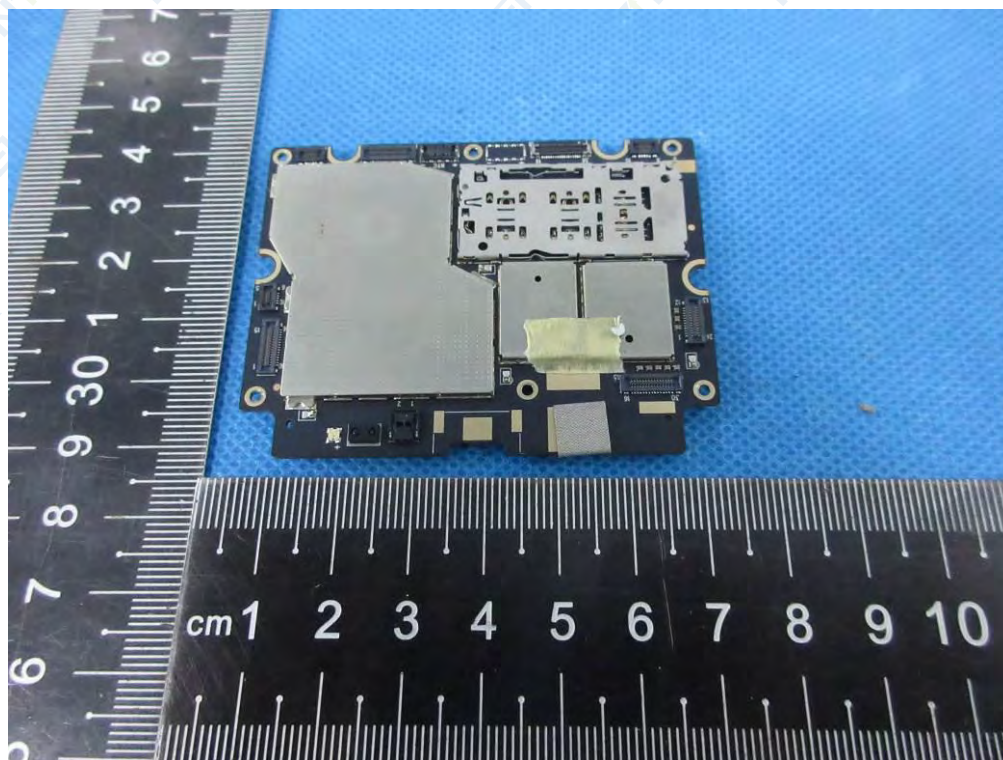


Photo 16



Photo 17

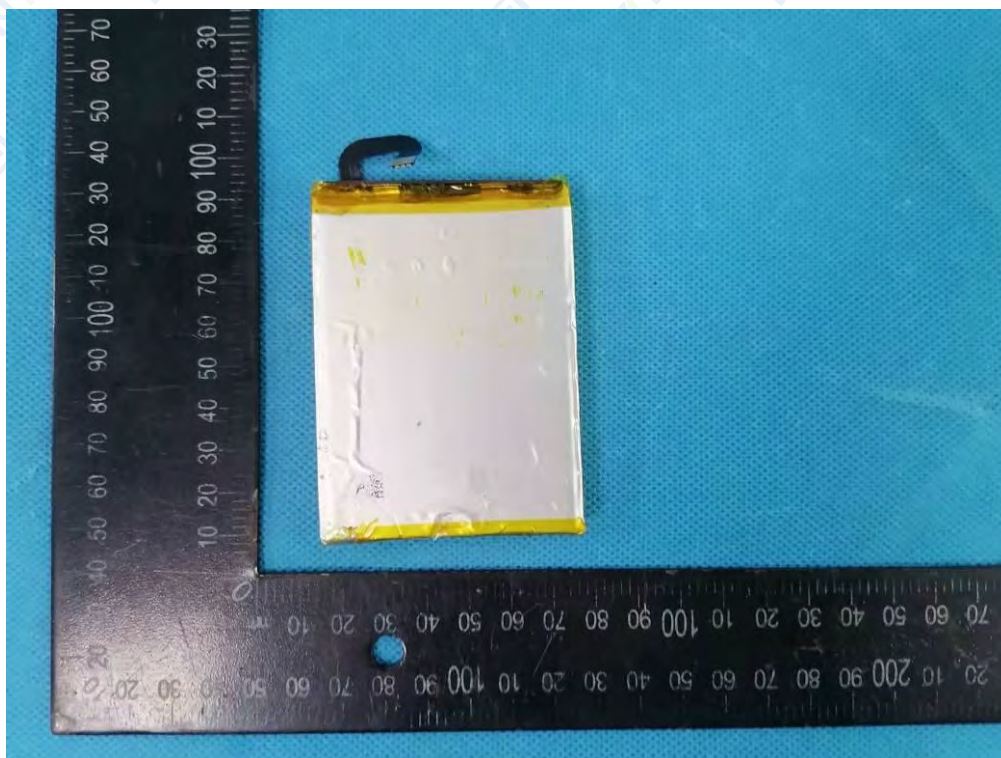


Photo 18

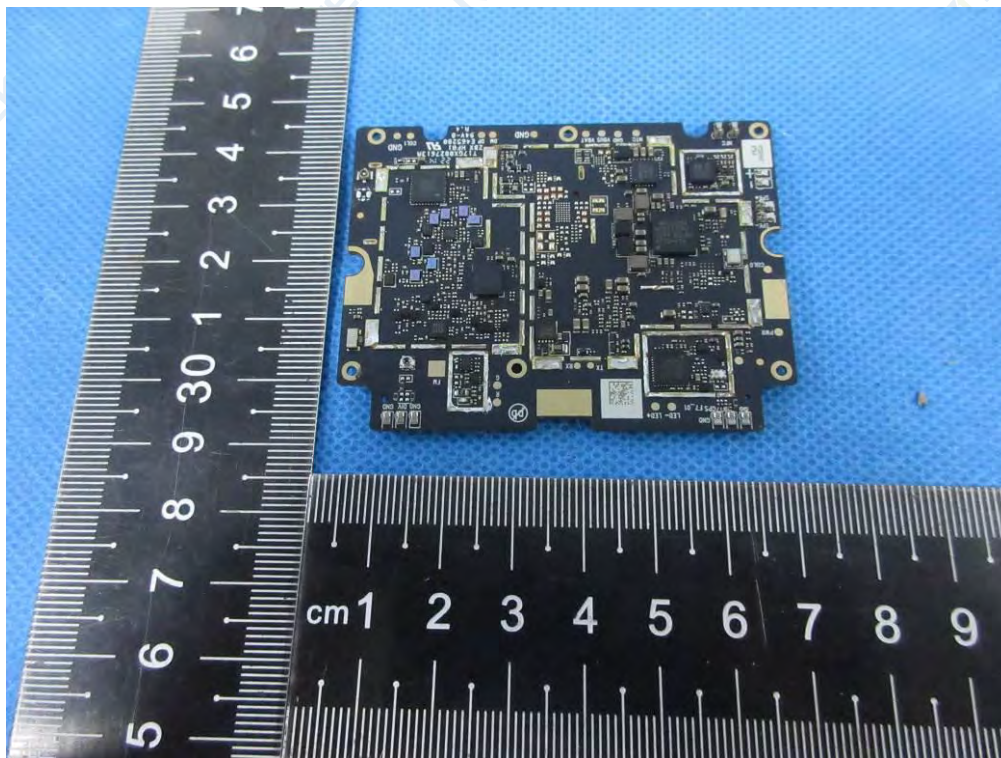


Photo 19

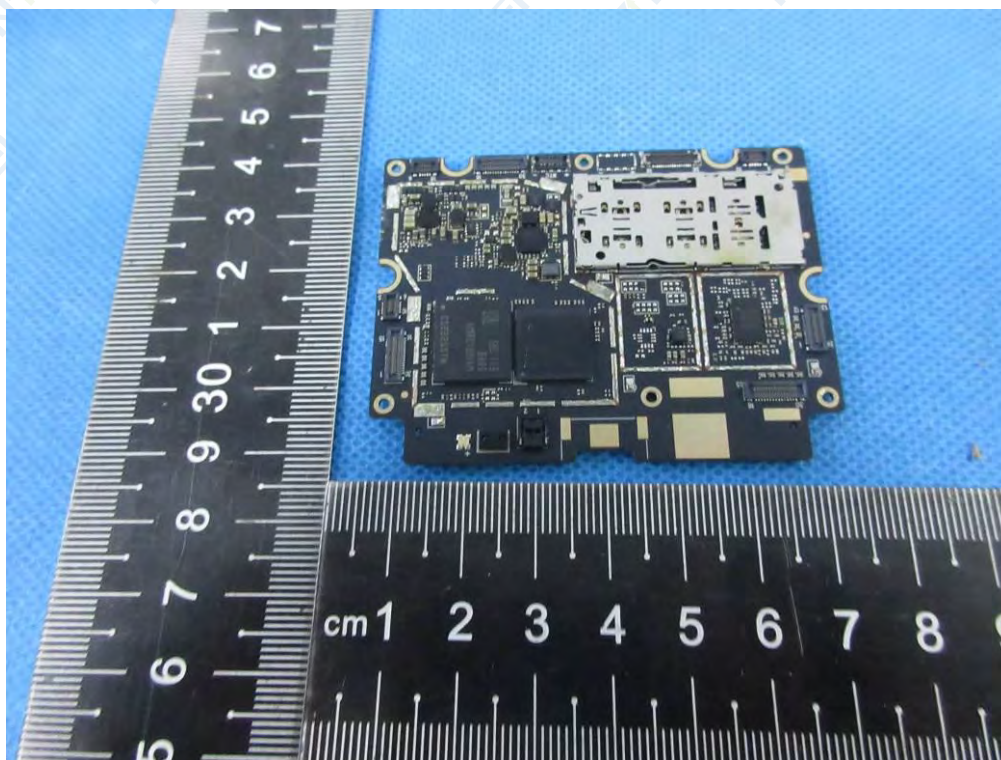


Photo 20

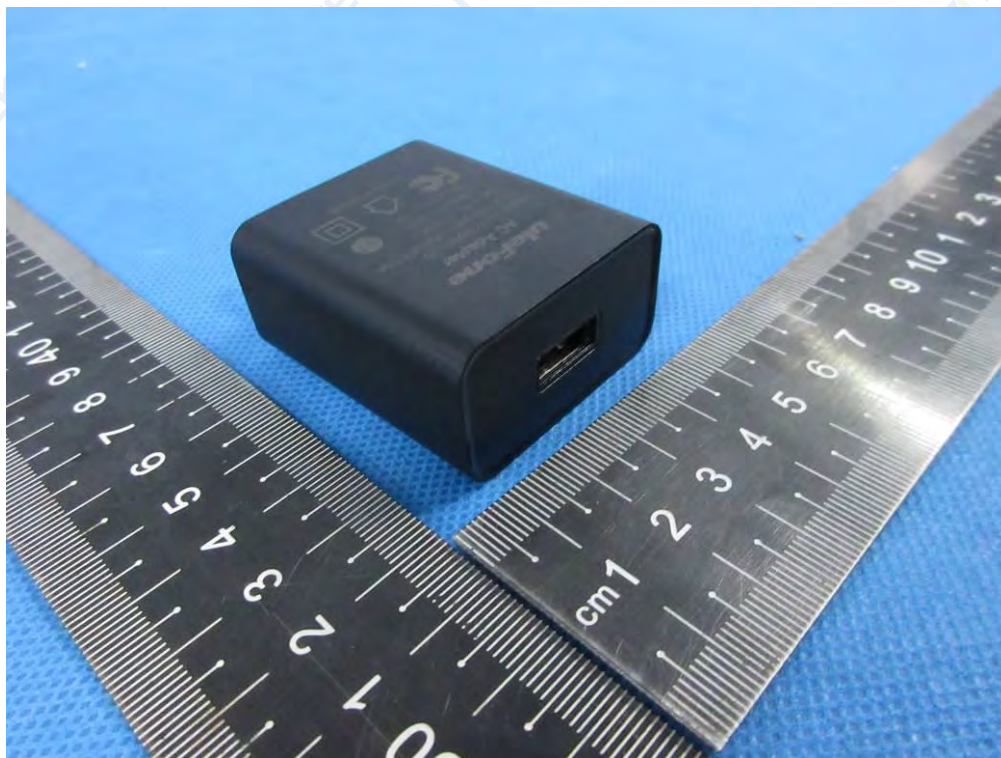


Photo 21

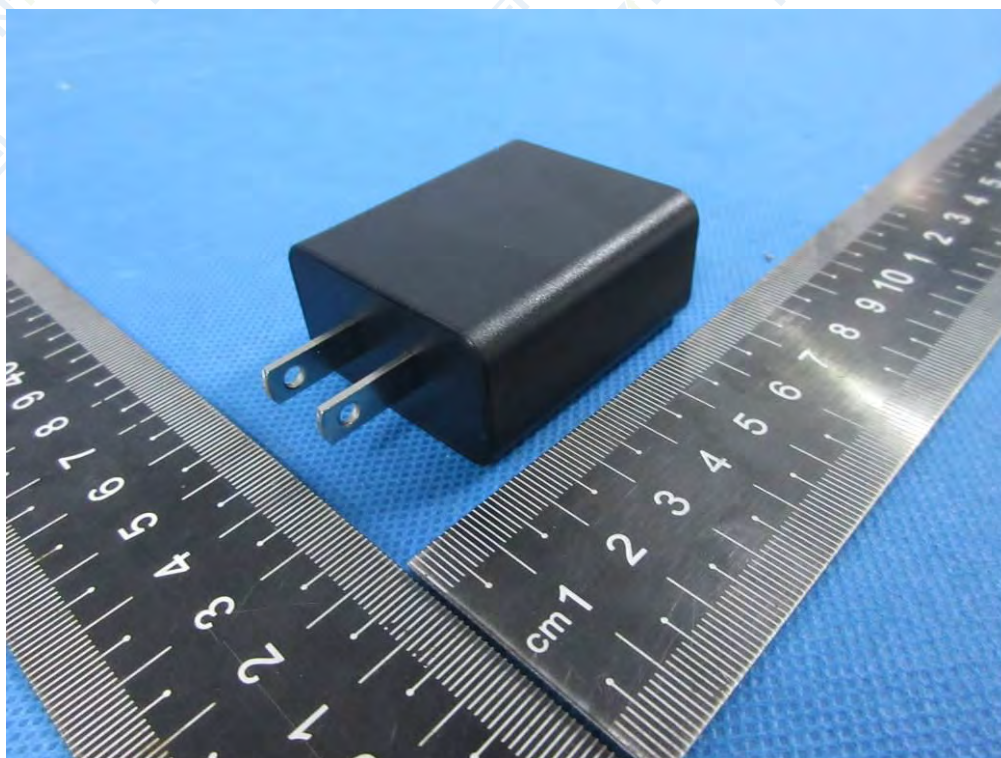


Photo 22



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