

FCC Test Report



Subject to
Supplier's Declaration of Conformity
Procedure

Product : Mobile Phone

Trade Mark : ulefone

GQ3116, Armor 24, Armor 24 Pro, Armor 24 Ultra,

Model Number : Armor 24 Lite, Armor 24 Plus, Armor 24S,
Armor 24P, Armor 24T, Armor 24E

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name: Shenzhen Gotron Electronic CO.,LTD.
Address: 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua
District, Shenzhen City, Guangdong Province China

Manufacturer's Name.....: Shenzhen Gotron Electronic CO.,LTD.
Address: 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua
District, Shenzhen City, Guangdong Province China

Product description

Product Name.....: Mobile Phone
Model Number: GQ3116, Armor 24, Armor 24 Pro, Armor 24 Ultra, Armor 24 Lite,
Armor 24 Plus, Armor 24S, Armor 24P, Armor 24T, Armor 24E
Standards: 47 CFR FCC part 15 subpart B, 10-1-2022
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: S230720054005

Date of Test:

Date (s) of performance of tests: 20 Jul. 2023 ~ 14 Aug. 2023

Date of Issue.....: 14 Aug. 2023

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, 10-1-2022 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&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community,
Hangcheng 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	30MHz ~ 1000MHz	2	5.2
Radiated Emission	1000MHz ~ 18000MHz	2	5.1

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone		
Model Number	GQ3116		
Additional Model Number(s)	Armor 24, Armor 24 Pro, Armor 24 Ultra, Armor 24 Lite, Armor 24 Plus, Armor 24S, Armor 24P, Armor 24T, Armor 24E		
Model Difference	All models are identical except model's name and color.		
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-PD66W-US Adapter Rating: Input: AC 100-240V, 50/60Hz, 1.5A Output: (DC 5.0V, 3.0A) (DC 9.0V, 3.0A) (DC 12.0V, 3.0A) (DC 15.0V, 3.0A) (DC 20.0V, 3.25A) (DC 11.0V, 6.0A) Battery Rating: DC 3.87V		

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 + TF Playing
Mode 2	Charging + REC(Front / Rear)
Mode 3	Data Transmission
Mode 4	Charging + FM(87.6MHz / 98MHz / 107.9MHz)
Mode 5	Smart connect

For Conducted Test

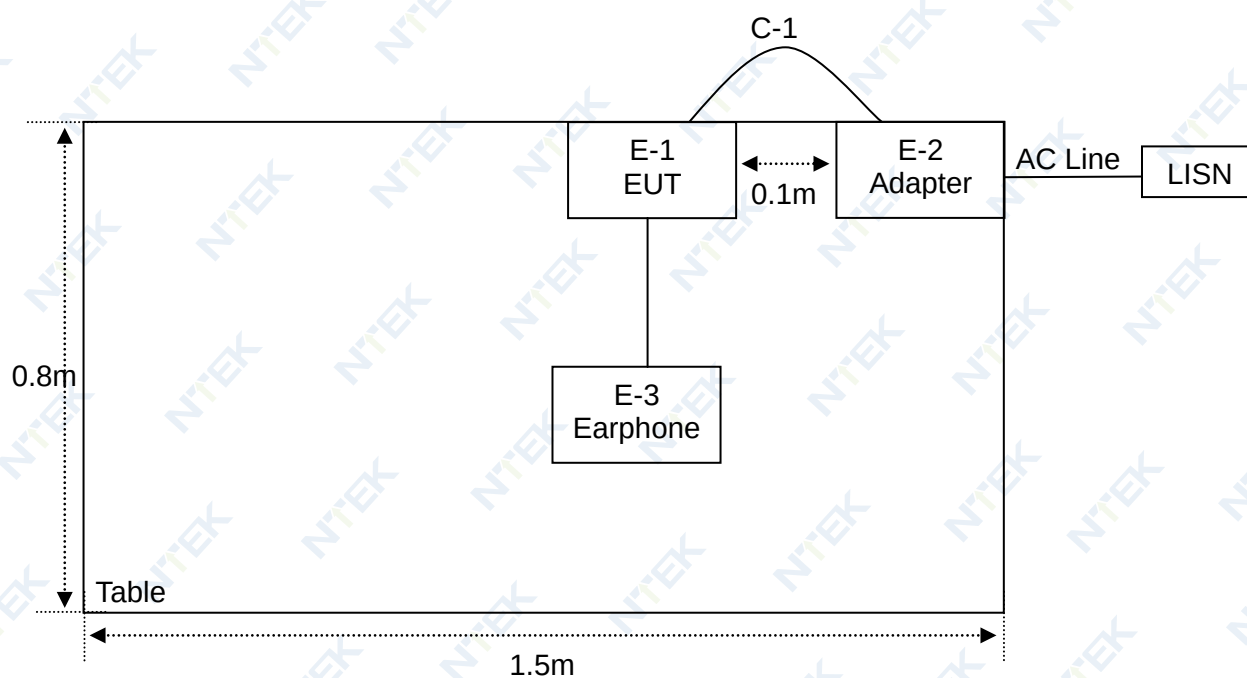
Final Test Mode	Description
Mode 1	Charging + TF Playing
Mode 2	Charging + REC(Front / Rear)
Mode 3	Data Transmission
Mode 4	Charging + FM(98MHz)

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)
Mode 5	Smart connect

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	GQ3116	N/A	EUT
E-2	Adapter	ulefone	HJ-PD66W-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	May 29, 2023	May 28, 2024	1 year
2	Single Phase LISN	R&S	ENV216	101313	Mar. 27, 2023	Mar. 26, 2024	1 year
3	Three-Phase LISN	SCHWARZBECK	NNLK 8129	8129245	Mar. 27, 2023	Mar. 26, 2024	1 year
4	Low Frequency Cable	N/A	R-03	N/A	Jun. 17, 2022	Jun. 16, 2025	3 years
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983704	May 06, 2023	May 05, 2026	3 years
6	EMI Test Receiver	R&S	ESCI	101160	Mar. 27, 2023	Mar. 26, 2024	1 year

2.5.2 RADIATED TEST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	3m Anechoic Chamber	N/A	9*6*6	N/A	May 14, 2021	May 13, 2024	3 years
2	3m Anechoic Chamber	N/A	9*6*6	N/A	Jul. 28, 2022	Jul. 27, 2025	3 years
3	EMI Test Receiver	R&S	ESPI7	101318	Mar. 27, 2023	Mar. 26, 2024	1 year
4	Bilog Antenna	TESEQ	CBL6111D	31216	Mar. 16, 2023	Mar. 15, 2024	1 year
5	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	May 06, 2023	May 05, 2026	3 years
6	Cable	Talent Microwave	A81-NWMSM AM-12M	21120897	Dec. 16, 2021	Dec. 15, 2024	3 years
7	Cable	Talent Microwave	A81-NMMN-1 0M	22084896	Sep. 09, 2022	Sep. 08, 2025	3 years
8	Cable	Talent Microwave	A81-NMMN-2 M	22084895	Sep. 09, 2022	Sep. 08, 2025	3 years
9	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	Jan. 11, 2023	Jan. 10, 2024	1 year
10	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	586	Jan. 11, 2023	Jan. 10, 2024	1 year
11	Attenuator	Eastsheep	5W-N-JK-6G-6DB	N/A	Aug. 14, 2022	Aug. 13, 2023	1 year
12	Broadband Horn Antenna	EM	EM-AH-10180	2011071402	Mar. 31, 2022	Mar. 30, 2025	3 years
13	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2816	Jan. 12, 2023	Jan. 11, 2024	1 year
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9120 D	2817	Jan. 12, 2023	Jan. 11, 2024	1 year
15	Spectrum Analyzer	Agilent	E4440A	MY41000130	Mar. 27, 2023	Mar. 26, 2024	1 year
16	Pre-Amplifier	EMC	EMC051835SE	980246	May 29, 2023	May 28, 2024	1 year
17	Cable	Keysight	A40-2.92M2.9 2M-2M	1808041	Nov. 01, 2022	Oct. 31, 2023	3 years
18	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	Nov. 07, 2022	Nov. 06, 2023	1 year

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	AIT-03A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency Range (MHz)	☐ Class A (dB μ V)		☒ 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.

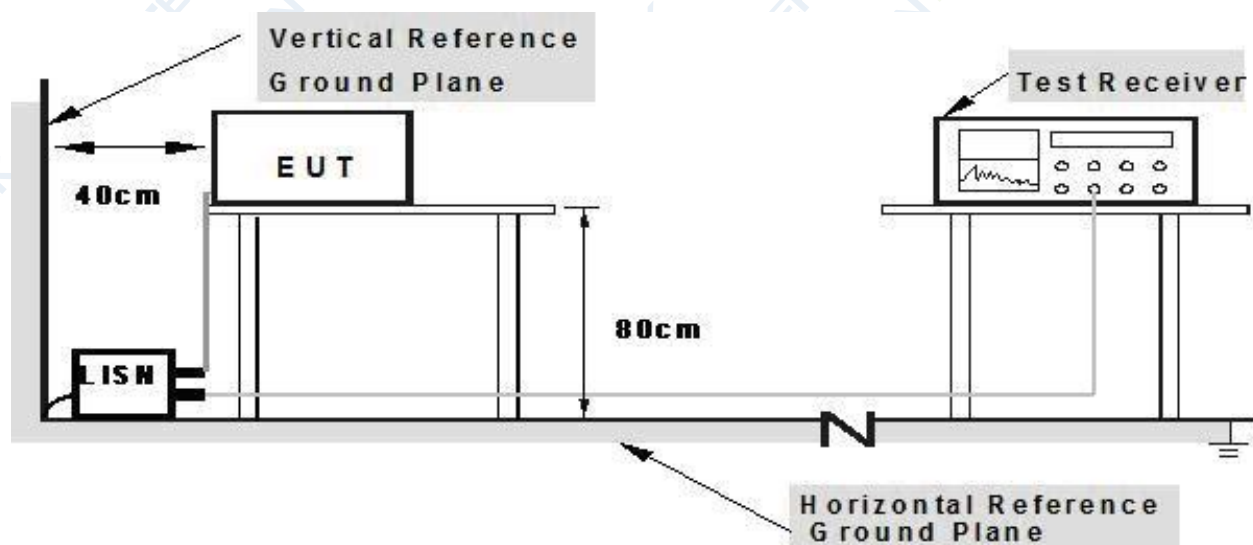
The following table is the setting of the receiver

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 0.8 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.
- b. 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.
- 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.

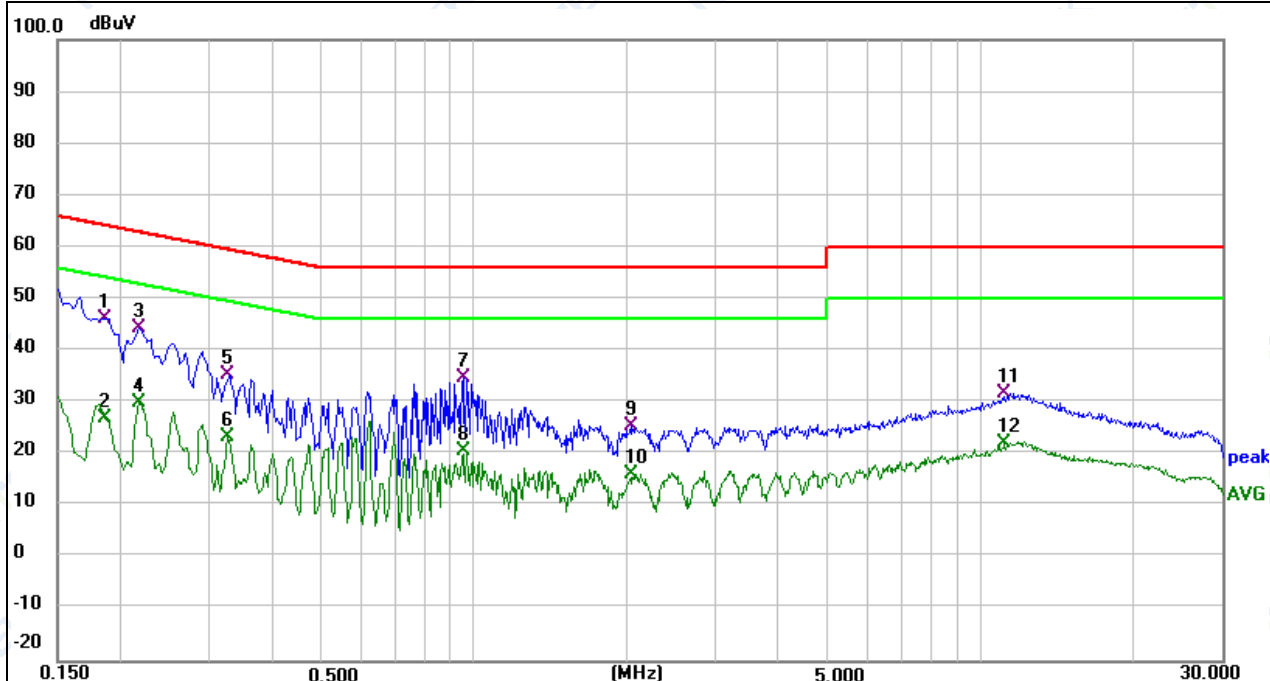
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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:	Mobile Phone	Model Name:	GQ3116
Temperature:	26.1℃	Relative Humidity:	56%
Pressure:	1010hPa	Test Date:	2023-07-27
Test Mode:	Charging + TF Playing	Phase:	L
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1864	36.28	10.01	46.29	64.20	-17.91	QP	P	
2	0.1864	16.92	10.01	26.93	54.20	-27.27	AVG	P	
3	0.2180	34.32	10.08	44.40	62.89	-18.49	QP	P	
4	0.2180	19.81	10.08	29.89	52.89	-23.00	AVG	P	
5	0.3260	25.09	10.30	35.39	59.55	-24.16	QP	P	
6	0.3260	12.93	10.30	23.23	49.55	-26.32	AVG	P	
7	0.9580	23.20	11.58	34.78	56.00	-21.22	QP	P	
8	0.9580	9.00	11.58	20.58	46.00	-25.42	AVG	P	
9	2.0380	15.80	9.66	25.46	56.00	-30.54	QP	P	
10	2.0380	6.47	9.66	16.13	46.00	-29.87	AVG	P	
11	11.1580	21.97	9.69	31.66	60.00	-28.34	QP	P	
12	11.1580	12.60	9.69	22.29	50.00	-27.71	AVG	P	

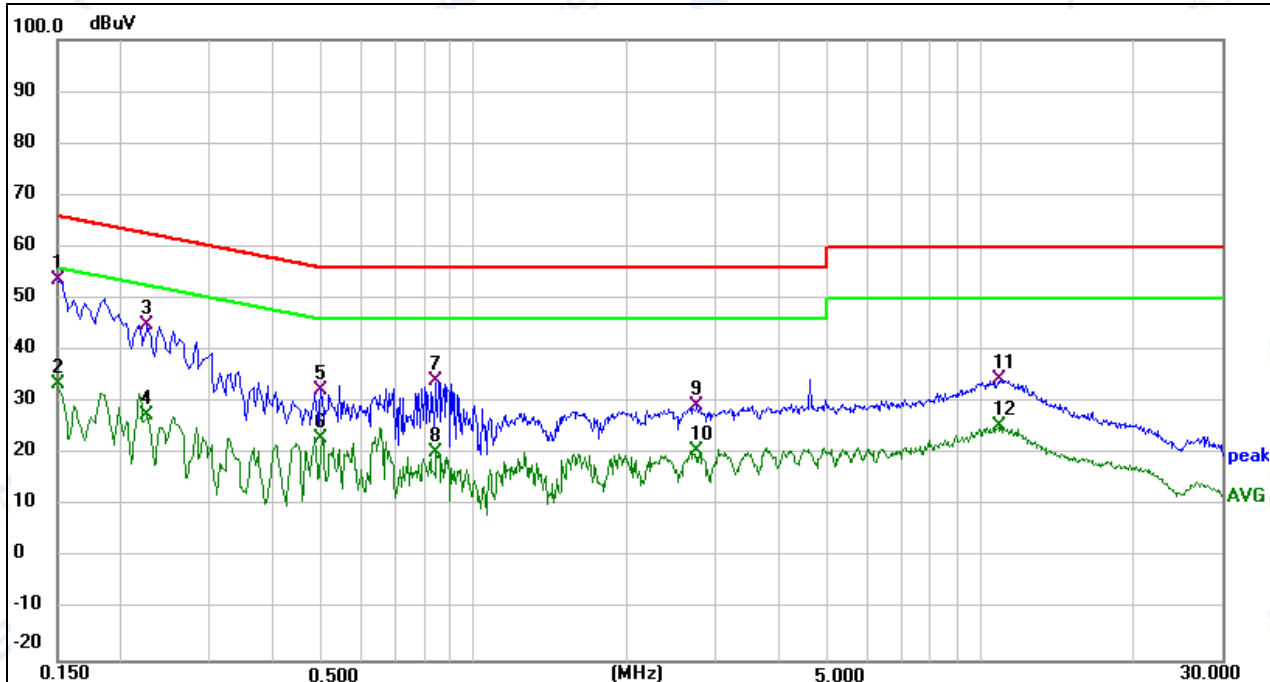
Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3116
Temperature:	26.1°C	Relative Humidity:	56%
Pressure:	1010hPa	Test Date:	2023-07-27
Test Mode:	Charging + TF Playing	Phase:	N
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1500	43.70	9.93	53.63	66.00	-12.37	QP	P	
2	0.1500	23.58	9.93	33.51	56.00	-22.49	AVG	P	
3	0.2260	34.93	10.10	45.03	62.60	-17.57	QP	P	
4	0.2260	17.41	10.10	27.51	52.60	-25.09	AVG	P	
5	0.4980	21.55	10.65	32.20	56.03	-23.83	QP	P	
6	0.4980	12.31	10.65	22.96	46.03	-23.07	AVG	P	
7	0.8420	22.85	11.34	34.19	56.00	-21.81	QP	P	
8	0.8420	8.87	11.34	20.21	46.00	-25.79	AVG	P	
9	2.7540	19.71	9.67	29.38	56.00	-26.62	QP	P	
10	2.7540	10.84	9.67	20.51	46.00	-25.49	AVG	P	
11	10.8500	24.71	9.69	34.40	60.00	-25.60	QP	P	
12	10.8500	15.76	9.69	25.45	50.00	-24.55	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	
	☐ Class A (dBμV/m)	☒ Class B (dBμV/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			
	☐ Class A (dBμV/m)		☒ Class B (dBμV/m)	
	Average	Peak	Average	Peak
Above 1000	60	80	54	74

Note:

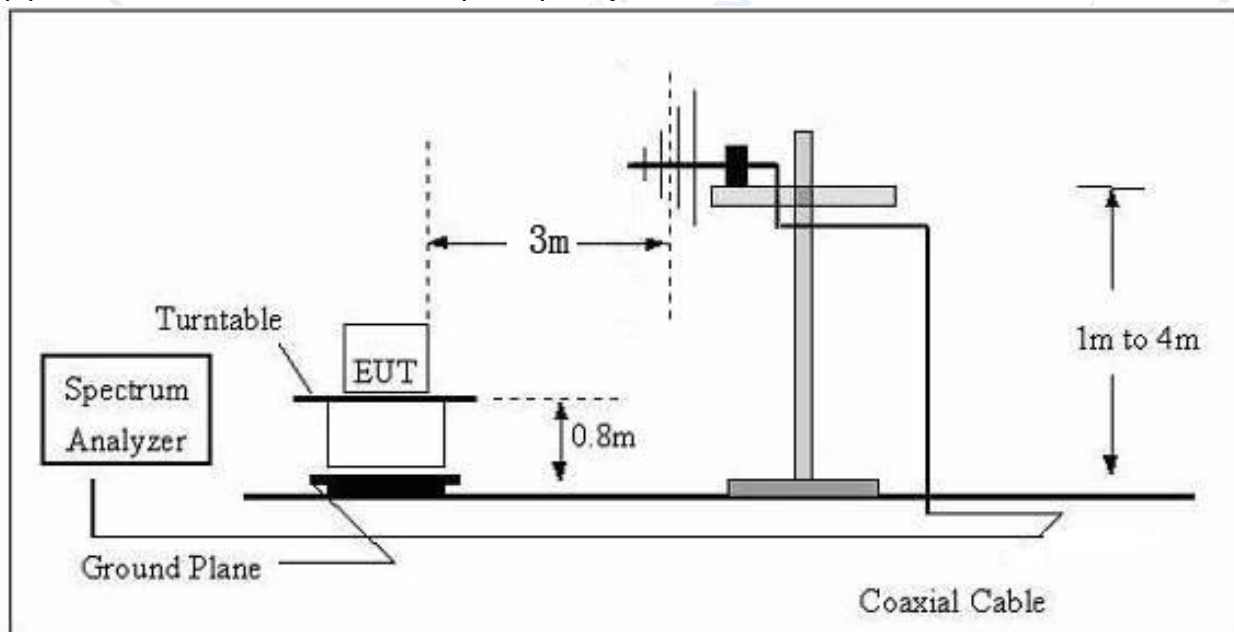
- (1) The limit for radiated test was performed according to as following: FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBμV/m)=20log Emission level (μV/m).

3.2.3 TEST PROCEDURE

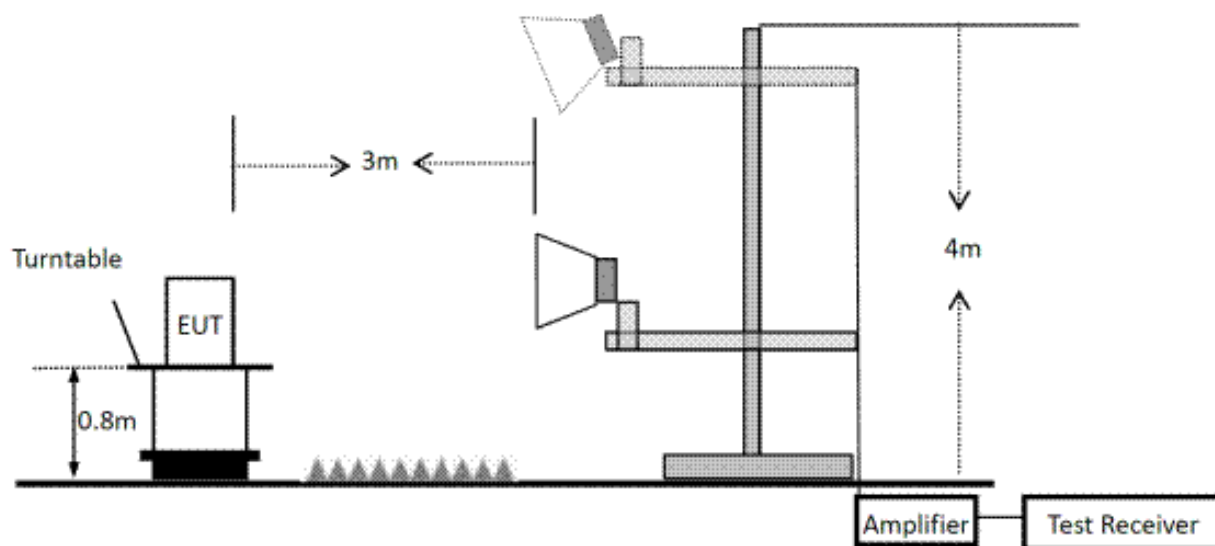
- a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated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

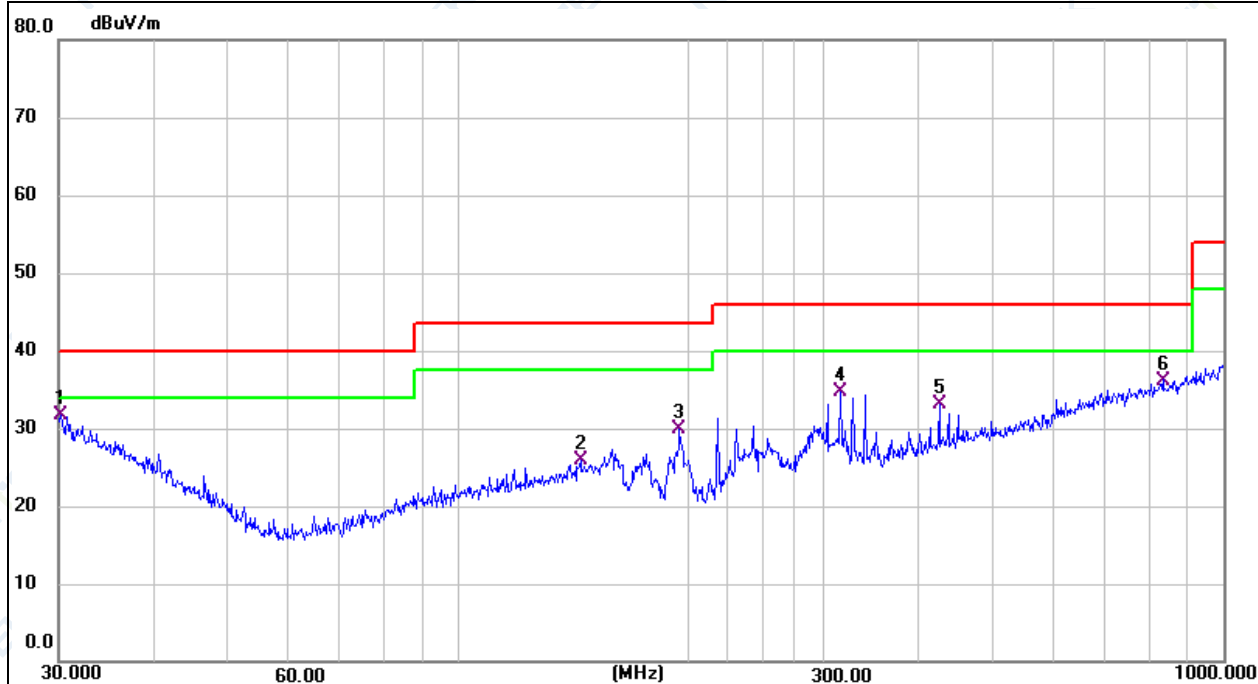


3.2.5 EUT OPERATING CONDITIONS

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:	Mobile Phone	Model Name:	GQ3116
Temperature:	25.1℃	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2023-07-27
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	30.2111	5.26	26.35	31.61	40.00	-8.39	QP			P	
2	144.3348	7.37	18.62	25.99	43.50	-17.51	QP			P	
3	194.4534	13.42	16.39	29.81	43.50	-13.69	QP			P	
4	315.4808	14.37	20.43	34.80	46.00	-11.20	QP			P	
5	425.0280	9.28	23.75	33.03	46.00	-12.97	QP			P	
6	833.3171	6.18	30.02	36.20	46.00	-9.80	QP			P	

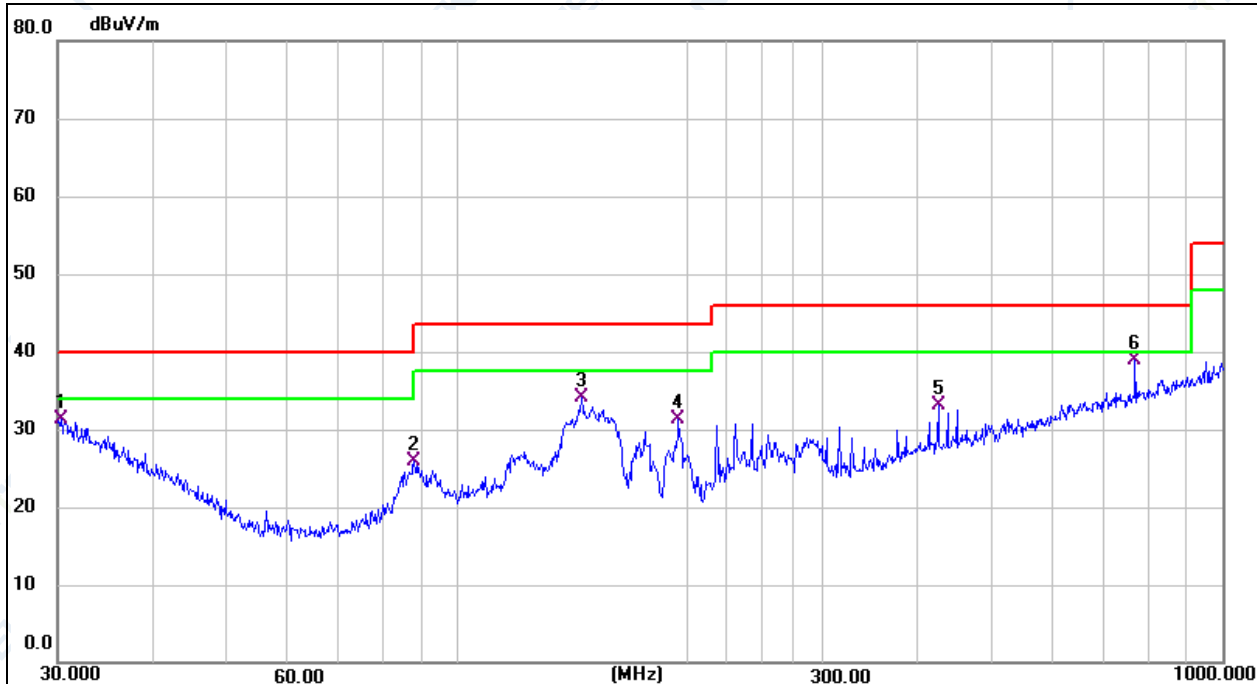
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3116
Temperature:	25.1°C	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2023-07-27
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.3172	4.95	26.29	31.24	40.00	-8.76	QP			P	
2	87.7248	9.54	16.43	25.97	40.00	-14.03	QP			P	
3	145.3506	15.43	18.61	34.04	43.50	-9.46	QP			P	
4	194.4534	14.85	16.39	31.24	43.50	-12.26	QP			P	
5	425.0280	9.36	23.75	33.11	46.00	-12.89	QP			P	
6 *	768.7481	9.71	29.10	38.81	46.00	-7.19	QP			P	

Remark:

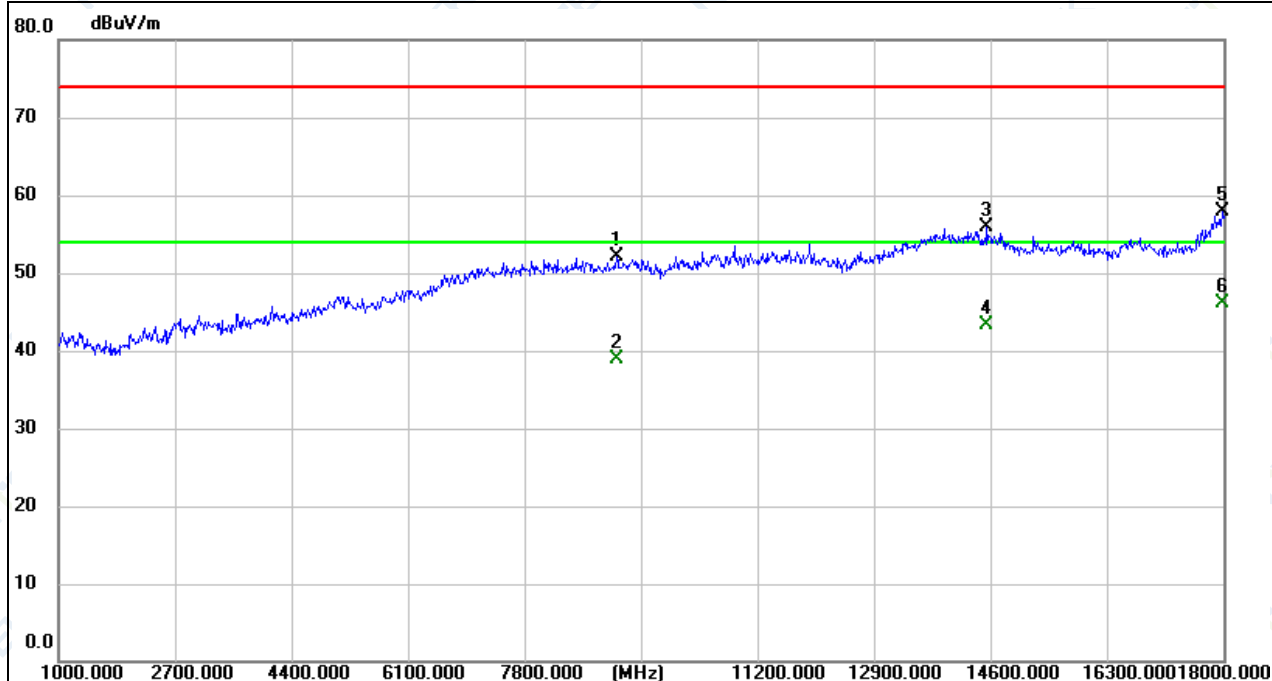
Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

3.2.7 TEST RESULTS (Above 1000MHz)

EUT:	Mobile Phone	Model Name:	GQ3116
Temperature:	25.1℃	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2023-07-27
Test Mode:	Charging + TF Playing	Polarization:	Horizontal
Test Power:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	9143.000	31.02	21.12	52.14	74.00	-21.86	peak			P	
2	9143.000	17.87	21.12	38.99	54.00	-15.01	AVG			P	
3	14549.000	31.10	24.90	56.00	74.00	-18.00	peak			P	
4	14549.000	18.34	24.90	43.24	54.00	-10.76	AVG			P	
5	17983.000	32.13	25.73	57.86	74.00	-16.14	peak			P	
6 *	17983.000	20.46	25.73	46.19	54.00	-7.81	AVG			P	

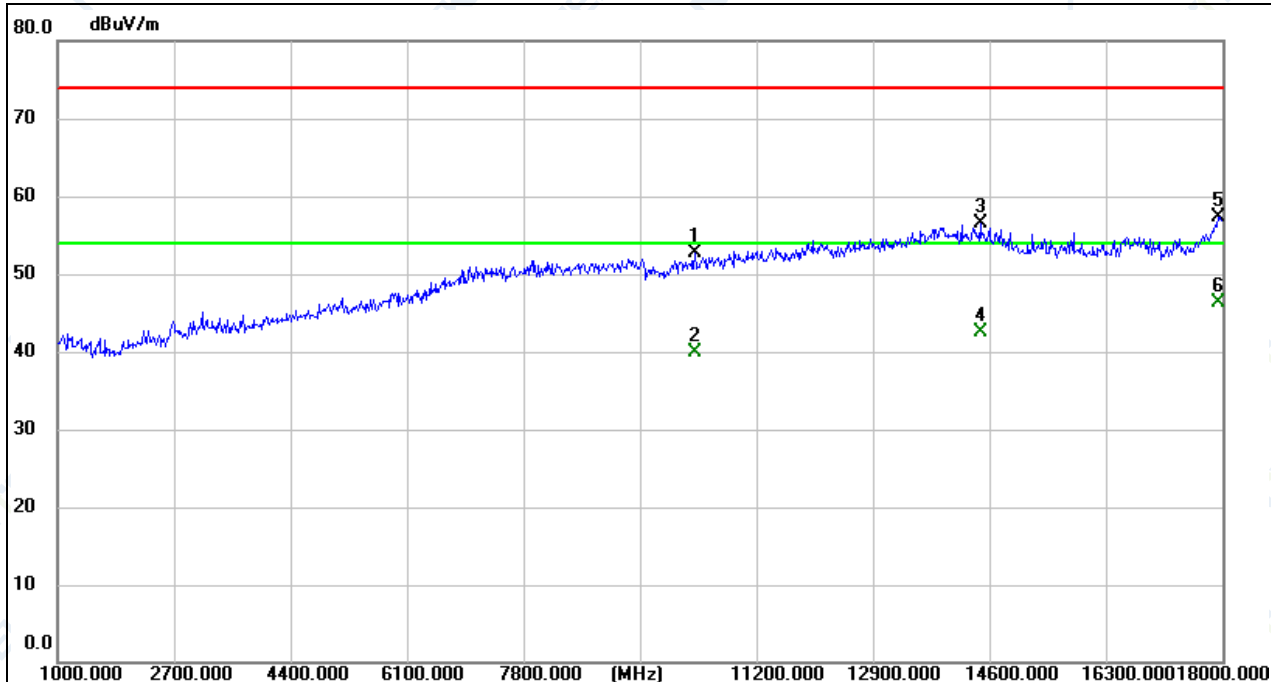
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

EUT:	Mobile Phone	Model Name:	GQ3116
Temperature:	25.1°C	Relative Humidity:	51%
Pressure:	1010hPa	Test Date:	2023-07-27
Test Mode:	Charging + TF Playing	Polarization:	Vertical
Test Power:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	10299.000	30.95	21.82	52.77	74.00	-21.23	peak			P	
2	10299.000	18.02	21.82	39.84	54.00	-14.16	AVG			P	
3	14464.000	31.45	25.07	56.52	74.00	-17.48	peak			P	
4	14464.000	17.52	25.07	42.59	54.00	-11.41	AVG			P	
5	17932.000	31.76	25.56	57.32	74.00	-16.68	peak			P	
6 *	17932.000	20.70	25.56	46.26	54.00	-7.74	AVG			P	

Remark:

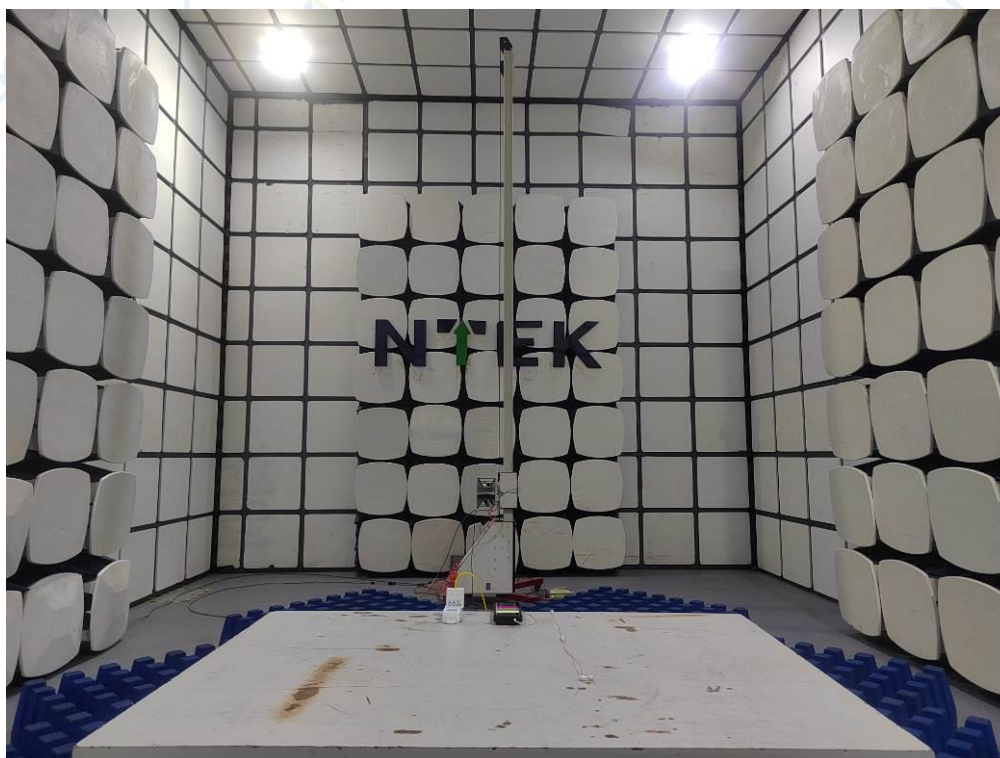
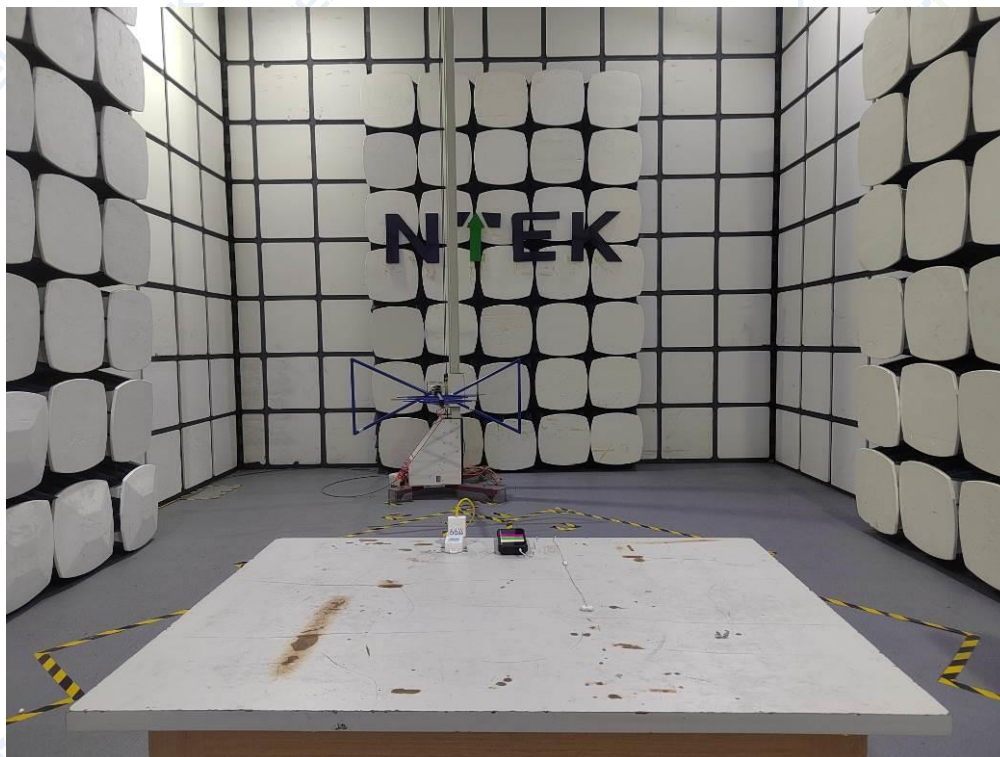
Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

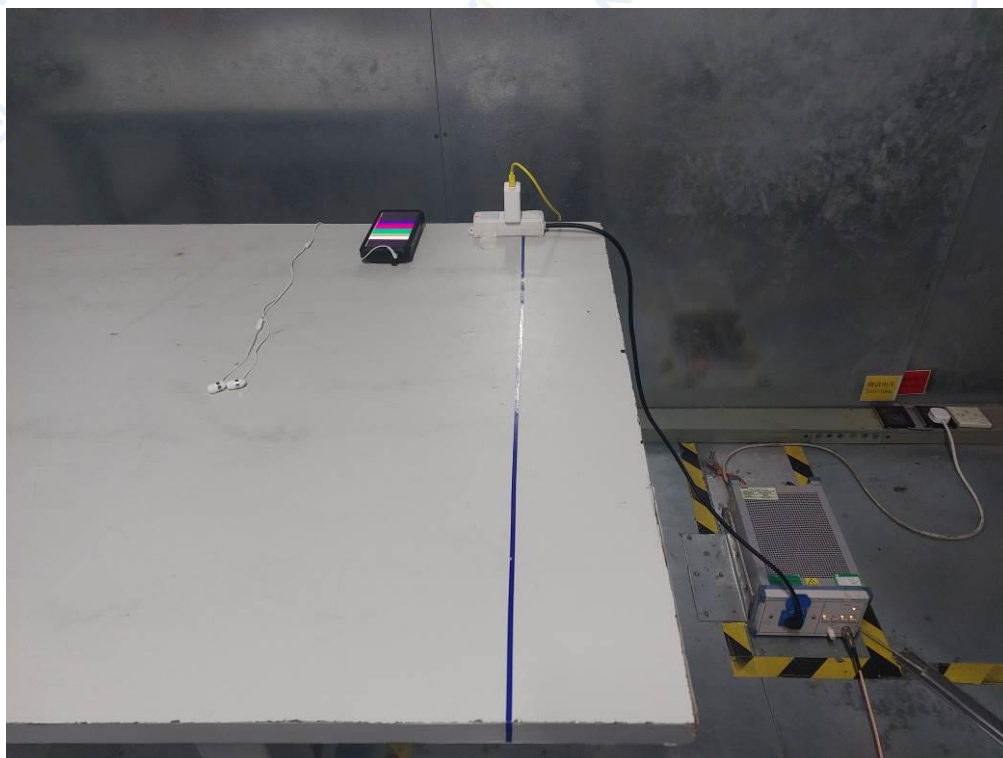
Over Level = Measurement Level - Limit

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

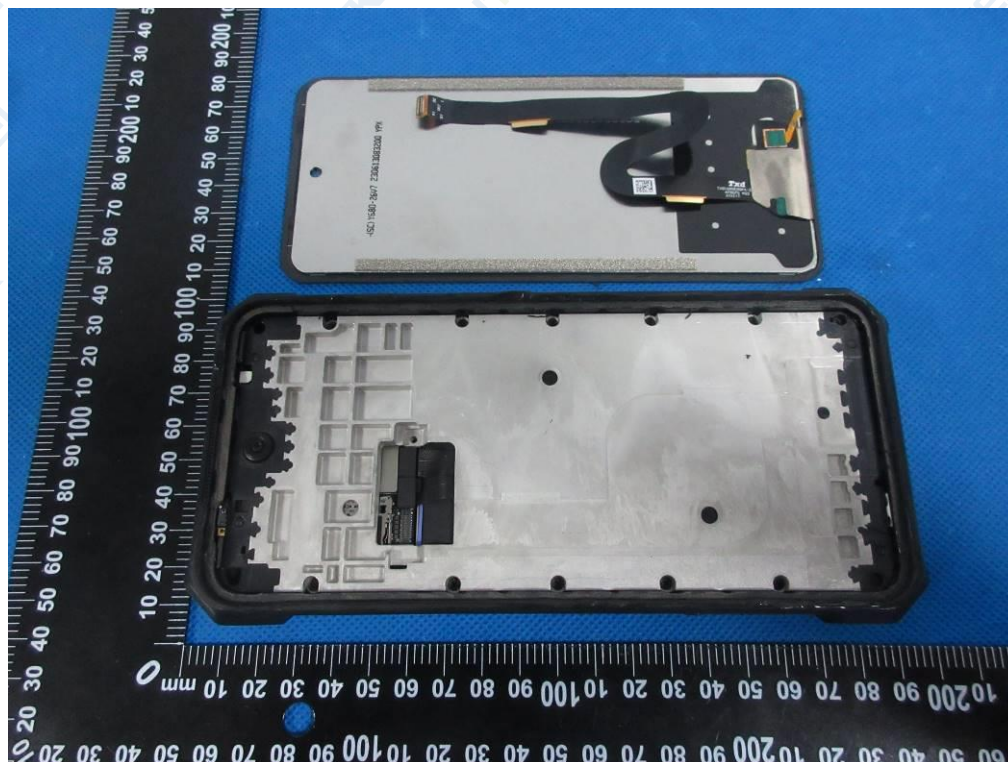


Photo 9

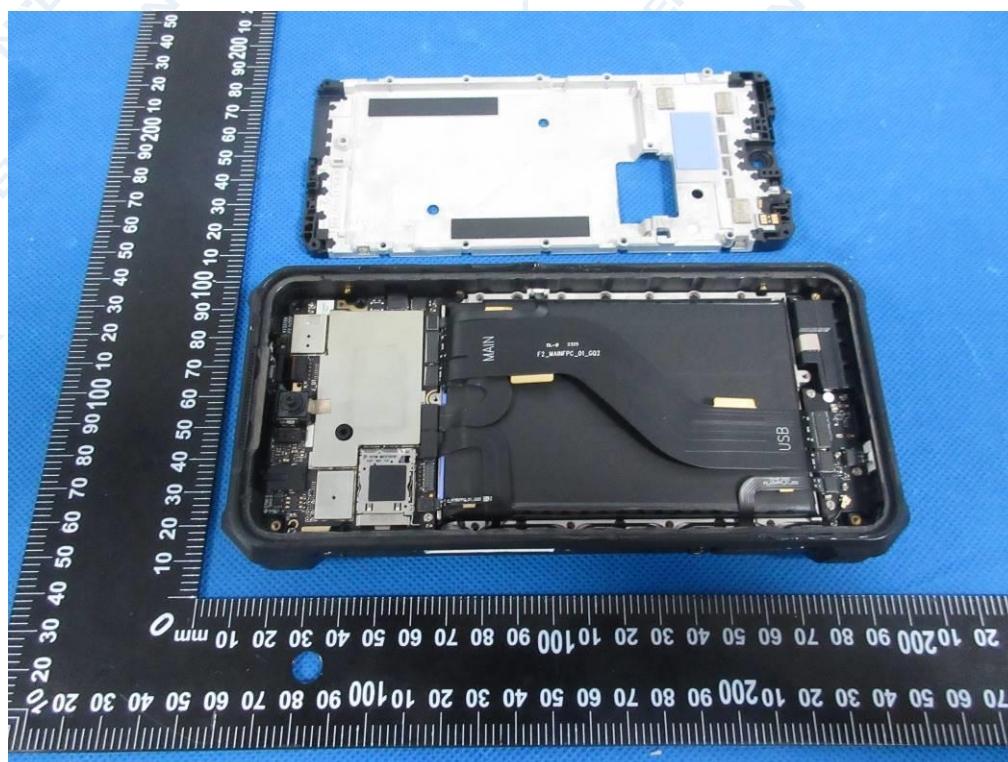


Photo 10

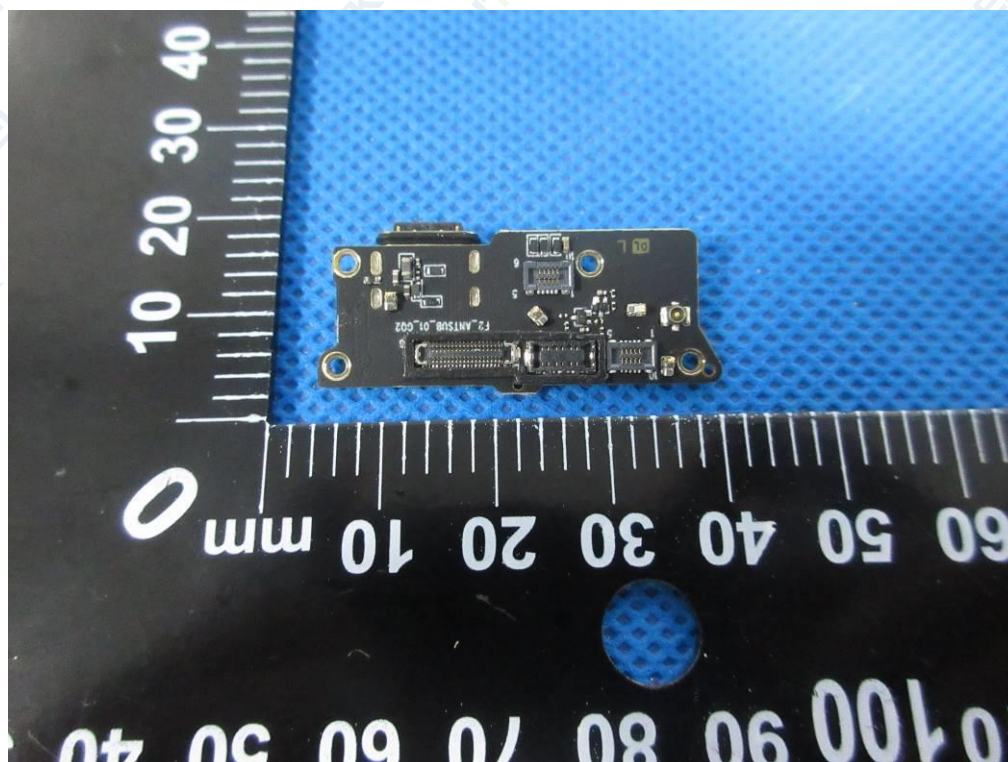


Photo 11

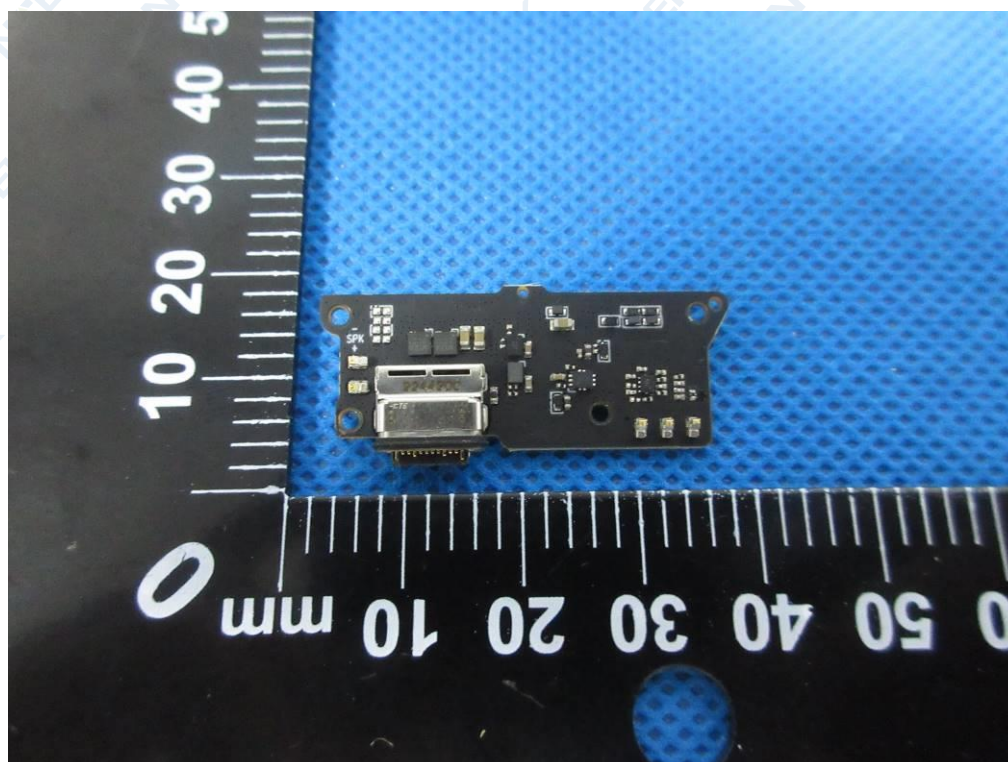


Photo 12



Photo 13



Photo 14

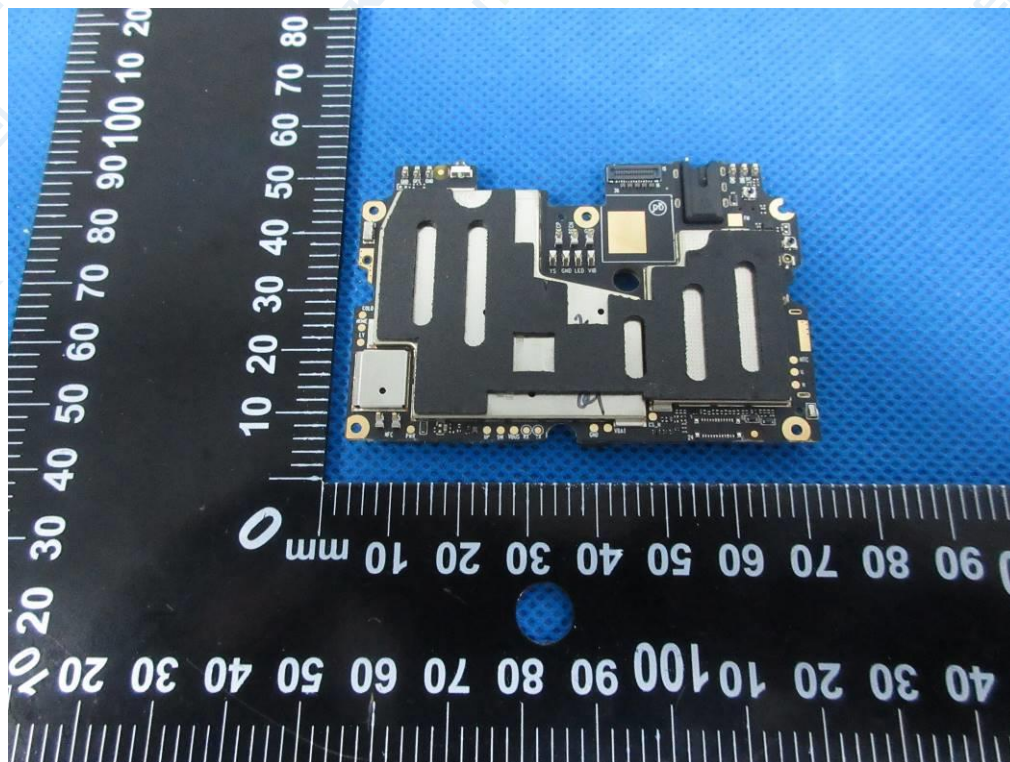


Photo 15

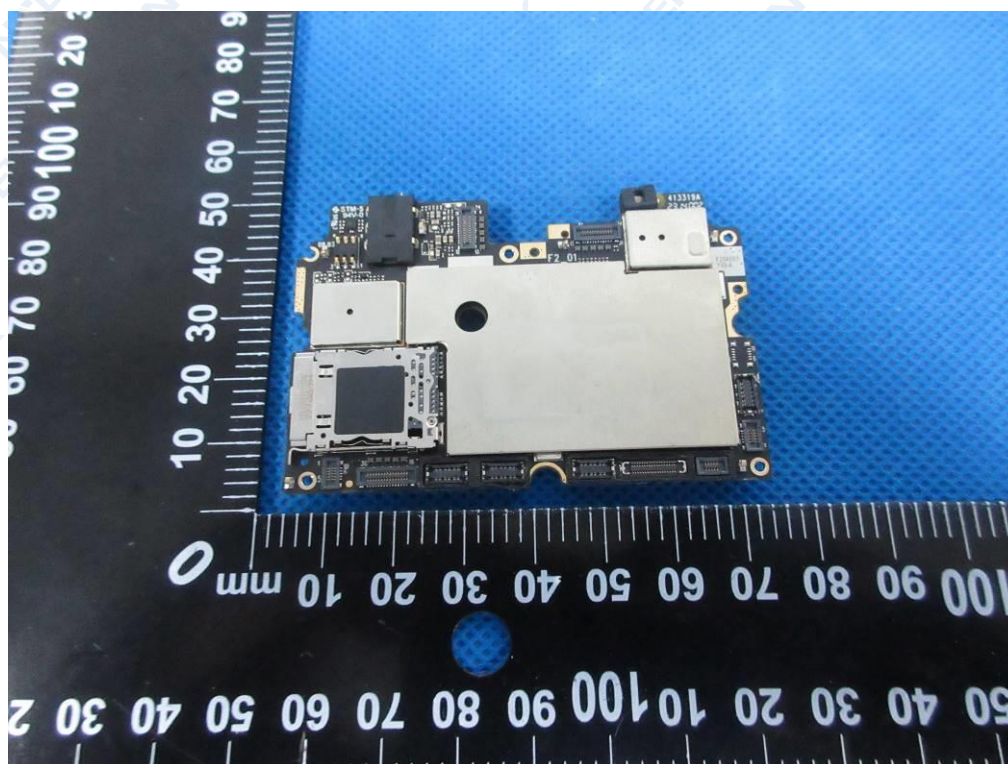


Photo 16

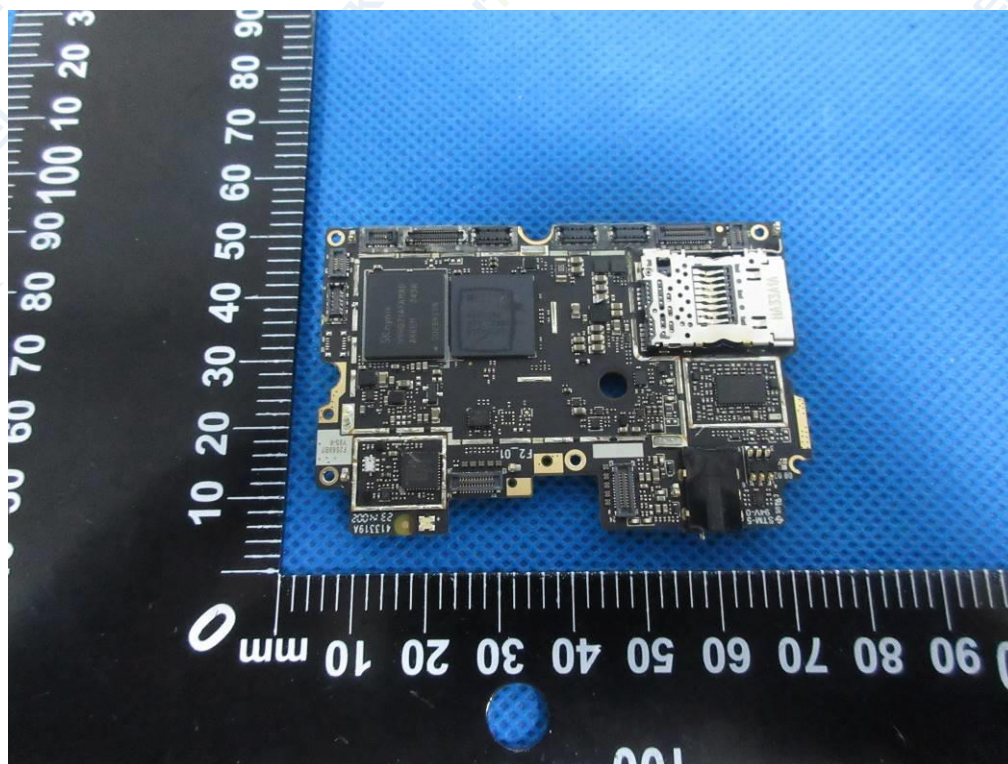


Photo 17

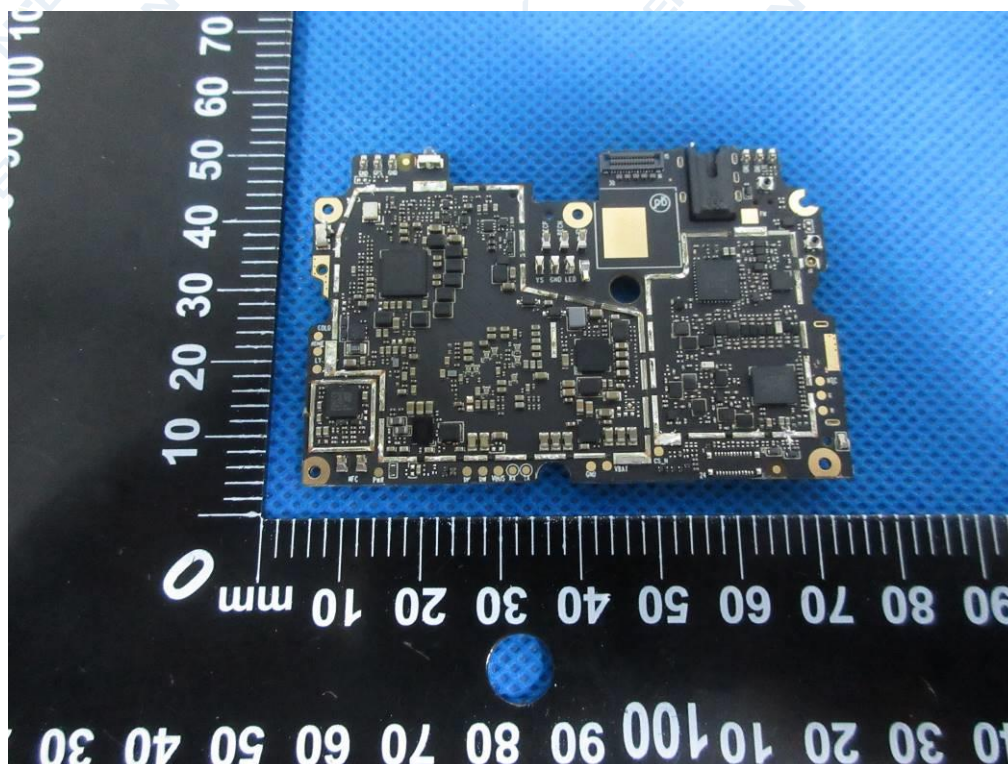


Photo 18

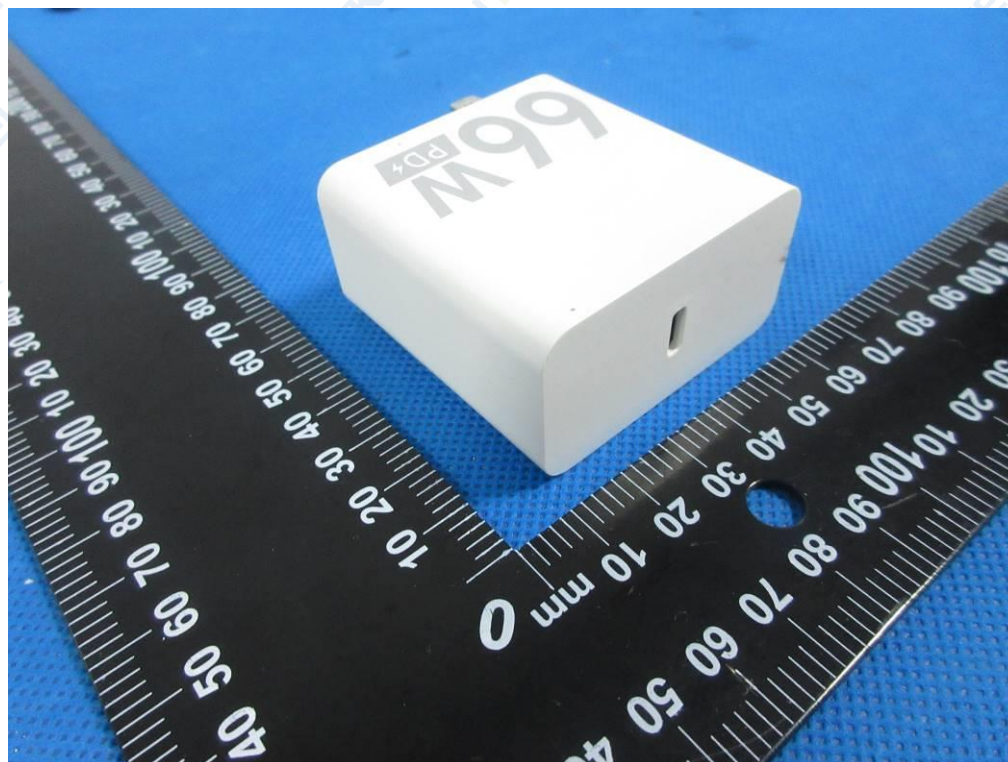


Photo 19

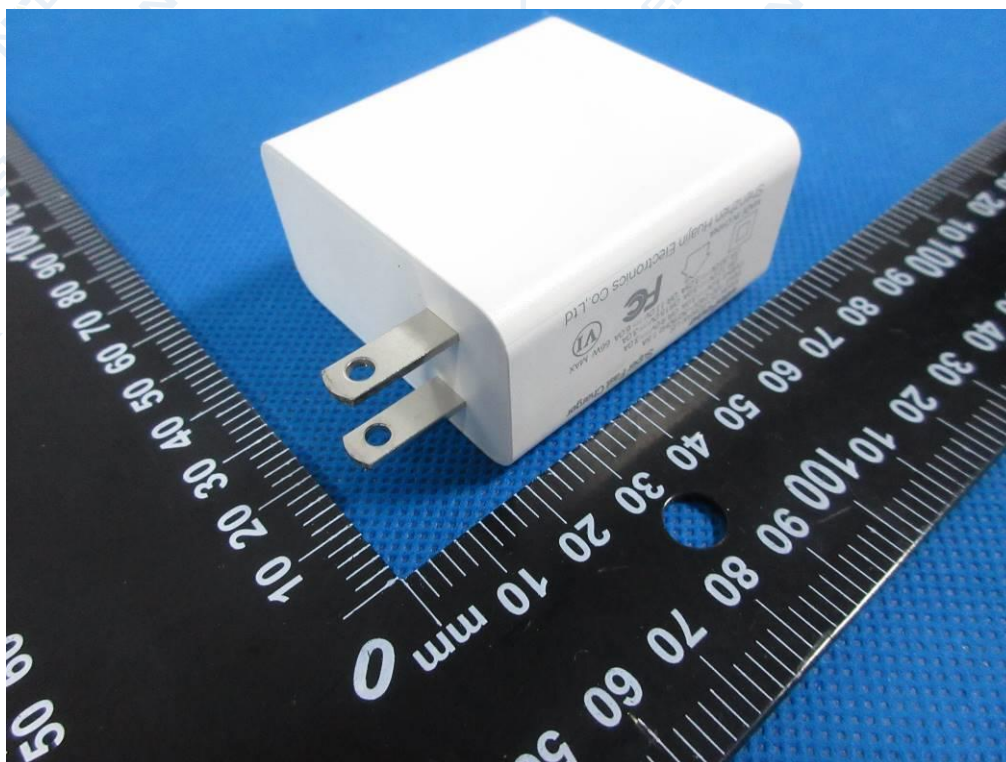


Photo 20



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