Report No.: STR230221007001E

FCC EMC Test Report

ilac-MR



Subject to

Supplier's Declaration of Conformity

Procedure

Product : Mobile Phone Trade Mark : ulefone GQ3106, Note 16 Pro, Note 16, Note 16P, Model Number :

Note 16T, Note 16 Plus, Note 16 Lite

Prepared for

Shenzhen Gotron Electronic CO.,LTD.

7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province, 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

ACCREDITED

Certificate #4298.01

ilac-MR/

Applicant's Name	Shenzhen Gotron Electronic CO.,LTD.		
Address	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua		
Address	District, Shenzhen City, Guangdong Province, China		
Manufacturer's Name	Shenzhen Gotron Electronic CO.,LTD.		
Addroso	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua		
Address	District, Shenzhen City, Guangdong Province, China		
Product description			
Product Name	Mobile Phone		
Madal Number	GQ3106, Note 16 Pro, Note 16, Note 16P, Note 16T,		
Model Number	Note 16 Plus, Note 16 Lite		
Standards	47 CFR FCC part 15 subpart B, 10-1-2022		
Stanuarus	ANSI C63.4:2014		
This device described above has b	een tested by NTEK, and the test results show that the		
equipment under test (EUT) is in co	ompliance 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 revise	d by NTEK, personal only, and shall be noted in the revision of		

the document.

Test Sample Number	T230221005R001
Date of Test	
Date (s) of performance of tests	22 Feb. 2023 ~ 10 Mar. 2023
Date of Issue	10 Mar. 2023
Test Result	Pass

Testing Engineer

Technical Manager

Allen. Huang

(Allen Huang)

5, by shang

(Sky Zhang)

Authorized Signatory :

bless

(Alex)



ilac-MRA

ACCREDITED Certificate #4298.01



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 3.1.2 TEST PROCEDURE	12
3.1.3 TEST PROCEDURE	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 3.2.2 TEST PROCEDURE	16 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,	Conducted Emission	Class B	PASS			
10-1-2022 ANSI C63.4: 2014	Radiated Emission	Class B	PASS	ret		

ACCREDITED

Certificate #4298.01

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

ac-MR

(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 $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{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	к	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





Revision History

ACCREDITED Certificate #4298.01

ilac-MR/

	L 7		<u>- </u>
Report No.	Version	Description	Issued Date
STR230221007001E	Rev.01	Initial issue of report	Mar. 10, 2023
~	-	1	1
t st	4	, A	
A S			
ST		~ ~ ~ ~	
	4	×	
A A	*		
	5		
at st			4
t 2		A A	•
1		2	× ·
		* 5 7	
	x 3		
à th			Č
A A			
			1 A S
			2
4. X		A L	
<u> </u>	~		
A S			
		4	
2 7			
2. ·		t tot	t the second sec



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

ilac-MR/

ACCREDITED

Certificate #4298 01

Equipment	Mobile Phone			
Model Number	GQ3106			
Additional Model	Note 16 Pro, Note 16, Note 16P, Note 16T, Note 16 Plus,			
Number(s)	Note 16 Lite			
Model Difference	All models are identical except model's name.			
	The EUT is a Mobile Phone.			
	Operating frequency: 5 GHz by WiFi (Declaration by factory)			
Product	Connecting I/O port: N/A			
Description				
	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			
	Adapter Model: HJ-0502000W2-US			
	Adapter Rating:			
Power Rating	Input: AC 100-240V, 50/60Hz, 0.3A			
	Output: DC 5V, 2000mA			
	Battery Rating: DC 3.85V, 4400mAh			

Report No.: STR230221007001E

NTEK 北测

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.

ACCREDITED

Certificate #4298.01

All test modes in the table below are tested, the worst case is listed on this report.

Iac-MR

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

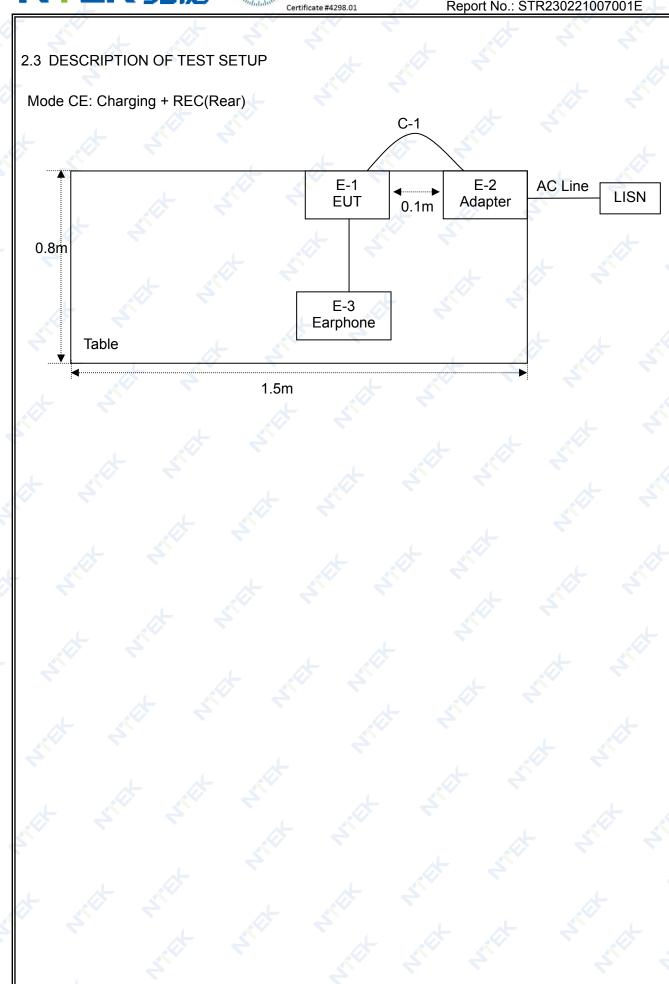
For Conducted Test				
Final Test Mode Description				
Mode 1 Charging + REC(Front / Rear)				
Charging + TF Playing				
Data Transmission				
Charging + FM(98MHz)				

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

ilac-MR/

ACCREDITED

Report No.: STR230221007001E



Report No.: STR230221007001E

2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

NTEK 北测

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.

ACCRED

Certificate #4298.01

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Mobile Phone	ulefone	GQ3106	N/A	EUT
E-2	Adapter	N/A	HJ-0502000W2-US	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	
		$\langle \langle \rangle \rangle$	X		
			A S	4	
14			5		
		F 4		R A	<u> </u>
	A A			5 5.	
	4	×			

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	100cm	
	~			
		5	4	6
	A 4	×		
Ĩ,		At St		
	.L (4

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

ilac-MR/

2.5.1 CONDUCTED TEST

	00112001						
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

ACCREDITED

Certificate #4298.01

2.5.2 RADIATED TEST

Z.0.	Z RADIATED						
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	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	May 11, 2020	May 10, 2023	3 years
4	Cable	Talent Microwave	A81-NWMSM AM-12M	21120897	Dec. 16, 2021	Dec. 15, 2024	3 years
5	Cable	Talent Microwave	A81-NMNM-1 0M	22084896	Sep. 09, 2022	Sep. 08, 2025	3 years
6	Cable	Talent Microwave	A81-NMNM-2 M	22084895	Sep. 09, 2022	Sep. 08, 2025	3 years
7	Log-Periodic Antenna	SCHWARZB ECK	VULB 9162	584	Jan. 11, 2023	Jan. 10, 2024	1 year
8	Log-Periodic Antenna	SCHWARZB ECK	VULB 9162	586	Jan. 11, 2023	Jan. 10, 2024	1 year
9	Attenuator	Eastsheep	5W-N-JK-6G- 6DB	N/A	Aug. 14, 2022	Aug. 13, 2023	1 year
10	Broadband Horn Antenna	EM	EM-AH-10180	2011071402	Mar. 31, 2022	Mar. 30, 2023	1 year
11	Broadband Horn Antenna	SCHWARZB ECK	BBHA 9120 D	2816	Jan. 12, 2023	Jan. 11, 2024	1 year
12	Broadband Horn Antenna	SCHWARZB ECK	BBHA 9120 D	2817	Jan. 12, 2023	Jan. 11, 2024	1 year
13	Spectrum Analyzer	Agilent	E4407B	MY45108040	Apr. 01, 2022	Mar. 31, 2023	1 year
14	Pre-Amplifier	EMC	EMC051835S E	980246	Jun. 17, 2022	Jun. 16, 2023	1 year
15	Cable	Keysight	A40-2.92M2.9 2M-2M	1808041	Nov. 01, 2022	Oct. 31, 2023	3 years
16	Broadband Horn Antenna	SCHWARZB ECK	BBHA 9170	803	Nov. 07, 2022	Nov. 06, 2023	1 year

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 Β (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	

ACCREDITED

artificate #4298 01

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

Report No.: STR230221007001E

NTEK北测

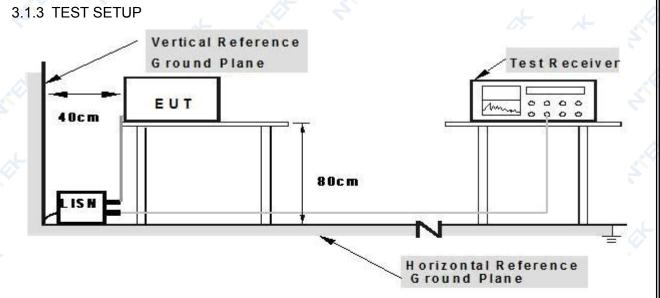
3.1.2 TEST PROCEDURE

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.

ACCREDITED

Certificate #4298.01

- 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.



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.



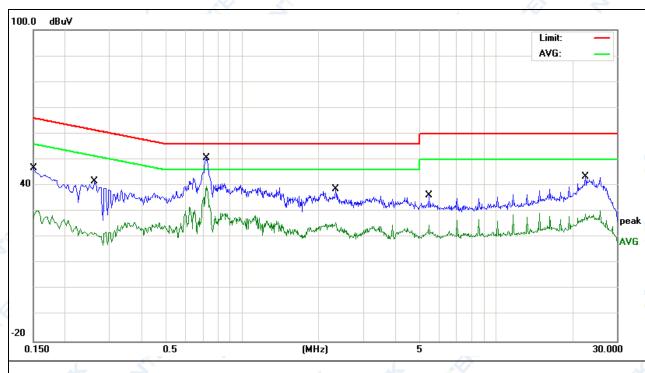
3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name:	GQ3106 🔔 💦
Temperature:	22.9°C	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023-02-24
Test Mode:	Charging + REC(Rear)	Phase:	L
Test Voltage:	AC 120V/60Hz	5	

ACCREDITED

Certificate #4298.01

ilac-MR



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.19	9.60	46.79	65.99	-19.20	QP	
2		0.1500	18.10	9.60	27.70	55.99	-28.29	AVG	
3		0.2620	31.93	9.63	41.56	61.36	-19.80	QP	
4		0.2620	12.19	9.63	21.82	51.36	-29.54	AVG	
5	*	0.7220	40.91	9.67	50.58	56.00	-5.42	QP	
6		0.7220	28.76	9.67	38.43	46.00	-7.57	AVG	
7		2.3420	28.93	9.70	38.63	56.00	-17.37	QP	
8		2.3420	16.00	9.70	25.70	46.00	-20.30	AVG	
9		5.4660	26.42	9.78	36.20	60.00	-23.80	QP	
10		5.4660	14.98	9.78	24.76	50.00	-25.24	AVG	
11		22.6420	33.09	10.23	43.32	60.00	-16.68	QP	
12		22.6420	18.71	10.23	28.94	50.00	-21.06	AVG	

Remark:

Correct Factor = Insertion Loss + Cable Loss Measurement Level = Reading Level + Correct Factor Over Level = Measurement Level - Limit



Report No.: STR230221007001E

EUT:	M	obile Pho	one		•	Mode	I Name:	(GQ3	106			
emperatu	ire: 22	2.9℃				Relati	ve Humic	lity: 8	52%				
Pressure:	10	10hPa		F	~	Test D	Date:	2	2023	-02-2	24		2
Test Mode:	: Cł	narging +	REC(R	ear)		Phase: N							
Test Voltag	ge: AC	C 120V/6	0Hz				X				•		
				4									Å
100.0 dBu¥											Limit: AVG:		
40 × M	YANYA W	anny pour man	Martin Marin	www.www.www.www.www.www.www.www.www.ww	providence in the second	n _h yym ^m i	Toth A many the	Murdhama	Mint M	kandruttiv 	put with many	por man	pea
-20					weathingthen.		www.lwww.arl	nyuun lunu	لمباله	Llurali			
	, thallow	0.5			(MHz)		5					30.1	
-20	r û î î î î î î î î î î î î î î î î î î	¥	Correct	Measure-	(MHz)		5					30.1	
-20	Freq.	0.5 Reading Level	Correct Factor	Measure- ment	(MHz)	Over	5	*w				30.0	
-20	Freq. MHz	Reading Level dBuV	Factor dB	ment dBuV	Limit dBuV	dB	Detector	Comme	ent			30.1	
-20	Freq. MHz 0.1607	Reading Level dBuV 38.65	Factor dB 9.65	ment dBuV 48.30	Limit dBuV 65.42	dB -17.12	Detector QP	Comme	ent			30.1	
-20	Freq. MHz 0.1607	Reading Level dBuV 38.65 18.66	Factor dB 9.65 9.65	ment dBuV 48.30 28.31	Limit dBuV 65.42 55.42	dB -17.12 -27.11	Detector QP AVG	Comme	ent			30.1	
-20 0.150	Freq. MHz 0.1607 0.2819	Reading Level dBuV 38.65 18.66 34.19	Factor dB 9.65 9.65 9.63	ment dBuV 48.30 28.31 43.82	Limit dBuV 65.42 55.42 60.76	dB -17.12 -27.11 -16.94	Detector QP AVG QP	Comme	ent			30.1	
-20	Freq. MHz 0.1607 0.2819 0.2819	Reading Level dBuV 38.65 18.66 34.19 12.81	Factor dB 9.65 9.63 9.63	ment dBuV 48.30 28.31 43.82 22.44	Limit dBuV 65.42 55.42 60.76 50.76	dB -17.12 -27.11 -16.94 -28.32	Detector QP AVG QP AVG	Comme	ent			30.1	
20 0.150	Freq. MHz 0.1607 0.2819 0.2819 0.7300	Reading Level dBuV 38.65 18.66 34.19 12.81 37.79	Factor dB 9.65 9.63 9.63 9.63 9.67	ment dBuV 48.30 28.31 43.82 22.44 47.46	Limit dBuV 65.42 55.42 60.76 50.76 56.00	dB -17.12 -27.11 -16.94 -28.32 -8.54	Detector QP AVG QP AVG QP	Comme	ent			30.0	
-20 0.150 No. Mk. 1 2 3 4 5 * 6	Freq. MHz 0.1607 0.2819 0.2819 0.2830 0.7300	Reading Level dBuV 38.65 18.66 34.19 12.81 37.79 19.61	Factor dB 9.65 9.63 9.63 9.63 9.67 9.67	ment dBuV 48.30 28.31 43.82 22.44 47.46 29.28	Limit dBuV 65.42 55.42 60.76 50.76 56.00 46.00	dB -17.12 -27.11 -16.94 -28.32 -8.54 -16.72	Detector QP AVG QP AVG QP AVG	Comme	ent			30.1	
-20 0.150 No. Mk. 1 2 3 4 5 * 6 7	Freq. MHz 0.1607 0.2819 0.2819 0.2819 0.7300 0.7300 1.0740	Reading Level dBuV 38.65 18.66 34.19 12.81 37.79 19.61 27.06	Factor dB 9.65 9.63 9.63 9.63 9.67 9.67 9.68	ment dBuV 48.30 28.31 43.82 22.44 47.46 29.28 36.74	Limit dBuV 65.42 55.42 60.76 50.76 56.00 46.00 56.00	dB -17.12 -27.11 -16.94 -28.32 -8.54 -16.72 -19.26	Detector QP AVG QP AVG QP AVG QP AVG	Comme	ent			30.0	
-20 0.150 No. Mk. 1 2 3 4 5 * 6 7 8	Freq. MHz 0.1607 0.2819 0.2819 0.2819 0.2830 0.7300 0.7300 1.0740 1.0740	Reading Level dBuV 38.65 18.66 34.19 12.81 37.79 19.61 27.06 10.62	Factor dB 9.65 9.63 9.63 9.63 9.67 9.67 9.68 9.68	ment dBuV 48.30 28.31 43.82 22.44 47.46 29.28 36.74 20.30	Limit dBuV 65.42 55.42 60.76 50.76 56.00 46.00 46.00	dB -17.12 -27.11 -16.94 -28.32 -8.54 -16.72 -19.26 -25.70	Detector QP AVG QP AVG QP AVG QP AVG	Comme	ent			30.1	
-20 0.150 0.150 No. Mk. 1 2 3 4 5 * 6 7 8 9	Freq. MHz 0.1607 0.2819 0.2819 0.2819 0.2819 0.7300 0.7300 1.0740 1.0740 1.8500	Reading Level dBuV 38.65 18.66 34.19 12.81 37.79 19.61 27.06 10.62 26.48	Factor dB 9.65 9.63 9.63 9.63 9.67 9.67 9.68 9.68 9.67	ment dBuV 48.30 28.31 43.82 22.44 47.46 29.28 36.74 20.30 36.15	Limit dBuV 65.42 55.42 60.76 50.76 56.00 46.00 56.00 46.00 56.00	dB -17.12 -27.11 -16.94 -28.32 -8.54 -16.72 -19.26 -25.70 -19.85	Detector QP AVG QP AVG QP AVG QP AVG QP AVG QP	Comme	ent			30.0	
-20 0.150 No. Mk. 1 2 3 4 5 * 6 7 8 9 10	Freq. MHz 0.1607 0.2819 0.2819 0.2819 0.2830 0.7300 0.7300 1.0740 1.0740	Reading Level dBuV 38.65 18.66 34.19 12.81 37.79 19.61 27.06 10.62	Factor dB 9.65 9.63 9.63 9.63 9.67 9.67 9.68 9.68	ment dBuV 48.30 28.31 43.82 22.44 47.46 29.28 36.74 20.30	Limit dBuV 65.42 55.42 60.76 50.76 56.00 46.00 56.00 46.00 56.00 46.00	dB -17.12 -27.11 -16.94 -28.32 -8.54 -16.72 -19.26 -25.70	Detector QP AVG QP AVG QP AVG QP AVG	Comme	ent			30.1	

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

	Class A (at 3m)	⊠Class B (at 3m)
FREQUENCY (MHz)	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

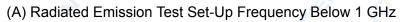
Notes:

- (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.

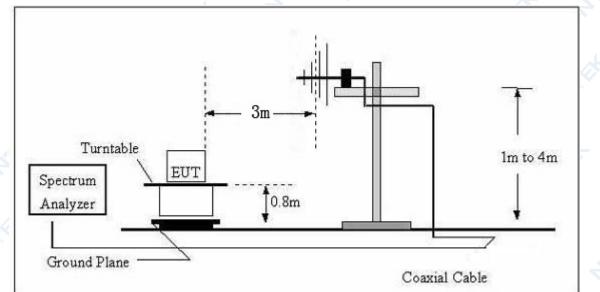
3.2.3 TEST SETUP



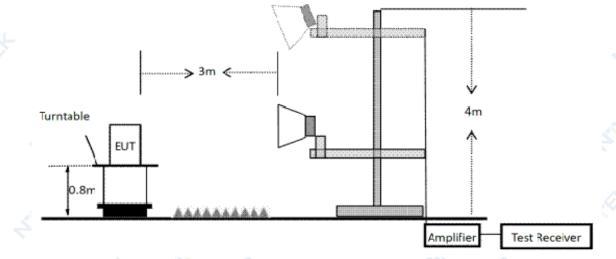
ac-MR

ACCREDITED

Certificate #4298.01



(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.



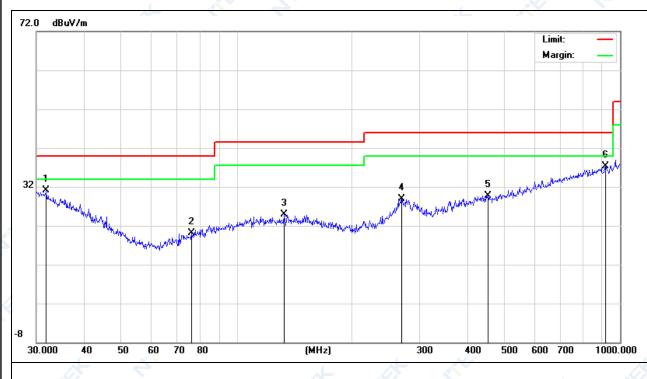
3.2.5 TEST RESULTS(30-1000MHz)

EUT:	Mobile Phone	Model Name:	GQ3106 🦟 🔬
Temperature:	25.5°C	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2023-03-04
Test Mode:	Charging + REC(Rear)	Polarization:	Horizontal
Test Power:	AC 120V/60Hz	~	

ACCREDITED

Certificate #4298.01

ilac-MR



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		31.8427	6.22	24.87	31.09	40.00	-8.91	QP				
2		76.2442	5.31	14.74	20.05	40.00	-19.95	QP				
3		132.6850	6.40	18.48	24.88	43.50	-18.62	QP				
4		269.4284	9.56	19.40	28.96	46.00	-17.04	QP				
5		452.7197	5.68	23.98	29.66	46.00	-16.34	QP				
6	*	916.0687	6.70	30.69	37.39	46.00	-8.61	QP				

Remark:



Report No.: STR230221007001E

EUT:		Mobil	e Phor	ne			Model	Name	: (GQ310	6	2		
Temp	erature:	25.5°	2			N.	Relativ	e Hun	nidity:	55%				
Press	ure:	1010	۱Pa		~	1	Test Da	ate:		2023-0	3-04	<u>×</u>		2
Test N	Mode:	Char	ing +	REC	(Rear)		Polarization:			Vertica				
Test F	Test Power: AC 120V/60Hz													
	K													1
72.0	dBu¥/m													_
												mit: argin:	_	
				_								argin.		
														Ч
												-		
							-						_	H
	2			-			_						X	per
- L .														
32	NX N			<u></u>				5				A MARY MARY		
32	Martin Martin Martin	wd		3	un and the second	w.M.	when when the	5 Martin	YurantyNantasahad	an ware	anger anger anger anger	d _{en} restyrents		
32	M.M. M.M.	whenter	W-10m And		repersively and	w Mm	ning a lan ang da	5 ×	Managalastalastal	anter and and	nogenogen fan de de	A. Martinette		
		ind when the second sec	tur and the		repartition and the second	w Mm	man den made	5 ***	Yn ererty Nyddioled	ponnon	napanga kautak			
-8 30.00			т _{мр-ий} т ^д			(MHz)	nnan lannada		hytenertythytholed 1 300 40			700)0.000
8				and Mary	up may any and a second s									
-8	00 40	50	60 70	and Mary	ct Measure-	(MHz)	Over			00 500) 600			
-8	00 40	50 FRei Eq. Le	60 70	80 Correct	ct Measure-	(MHz)			300 40 Antenna Height	00 500 Table) 600	700		
-8	00 40	50 Rea eq. Le	60 70	80 Correct	ct Measure- or ment dBuV/m	(MHz)	Over	3	300 40 Antenna Height	00 500 Table Degree) 600	700		
-8 30.00	00 40 Mk. Fra Mł	50 Re- eq. Le tz d	60 70 ading evel BuV	80 Correc Facto dB	ct Measure- ment dBuV/m 7 32.69	(MHz) Limit dBuV/m	Over	Detecto	300 40 Antenna Height	00 500 Table Degree) 600	700		
8 30.00	00 40 Mk. From MH * 30.00	50 Rea eq. Le Hz d 000 (0 048 8	60 70 60 70 ading evel BuV 5.82	80 Correct Facto dB 25.87	ct Measure- or ment dBuV/m 7 32.69 9 31.79	(MHz) Limit dBuV/m 40.00	Over dB -7.31	23 24 Detecto QP	300 40 Antenna Height	00 500 Table Degree) 600	700		
8 30.00	00 40 Mk. Fre Mk. Fre 35.00	50 Rea eq. Le tz d 000 (048 8 095 9	60 70 60 70 ading evel BuV 3.82 3.30	80 Correc Facto dB 25.87 23.49	ct Measure- pr ment dBuV/m 7 32.69 9 31.79 1 25.92	(MH2) (MH2) Limit dBuV/m 40.00	Over dB -7.31 -8.21	Detecto QP QP	300 40 Antenna Height	00 500 Table Degree) 600	700		
-8 30.00 No.	00 40 Mk. From MH * 30.00 35.00 84.99	50 Rea eq. Le 1z d 100 (148 8 995 (901 1(60 70 60 70 ading evel BuV 5.82 3.30 9.51	80 80 25.87 23.49 16.41	ct Measure- ment dBuV/m 7 32.69 9 31.79 1 25.92 0 28.04	(MHz) (MHz) Limit dBuV/m 40.00 40.00	Over dB -7.31 -8.21 -14.08	Detecto QP QP	300 40 Antenna Height	00 500 Table Degree) 600	700		

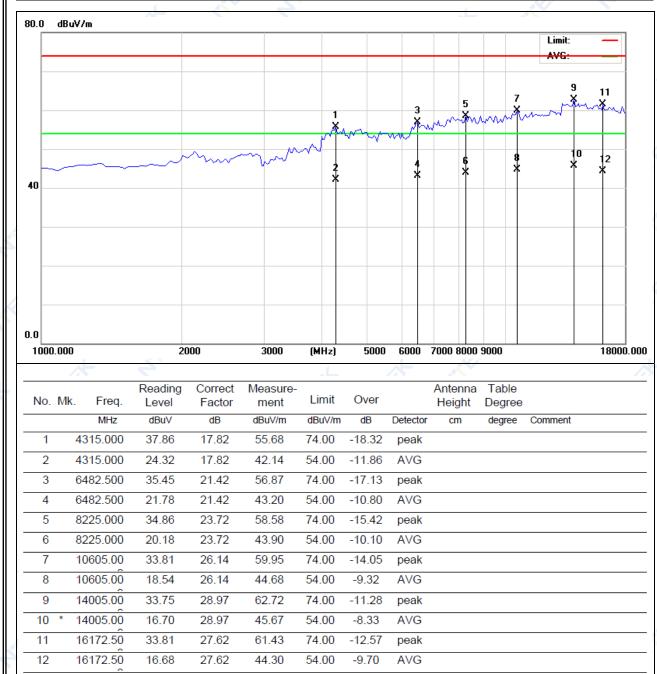
Remark:



Report No.: STR230221007001E

3.2.6 TEST RESULTS(Above 1000MHz)

EUT:	Mobile Phone	Model Name:	GQ3106 🦽 🔬
Temperature:	25.5℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Date:	2023-03-04
Test Mode:	Charging + REC(Rear)	Polarization:	Horizontal
Test Power:	AC 120V/60Hz	~	



Remark:



Report No.: STR230221007001E

		~ •		N4 - 1 - 1	N I		20040	~ ~	
				Polarization: Vertical					
AC 120V/	60HZ								
		A							
						Limit: —			
								9	11
				1		3	5 7 X X	~ ľ	m
			m	n	M	funni	Kun I	~ .	
	<u>~</u>	m.r	N	· W			6	10	12
$\sim\sim\sim$	/ - C~~	· har		2		4 3	* 8 * *	¥	×
				1		×			
	2000	3000	(MH2)	5000	6000	7000 8000	9000		18000.00
			(14112)	5000	0000	1000 0000	3000		10000.0
Reading	Correct	Measure-				Antenna	Table		
q. Level	Factor	ment	Limit	Over		Height	Degree		
	dB	dBuV/m			Detector	cm	degree	Comment	
					peak				
					AVG				
					peak				
	22.40		54.00		AVG				
00 34.99	23.64	58.63	74.00	-15.37	peak				
00 21.78	23.64	45.42	54.00	-8.58	AVG				
00 33.60	26.14	59.74	74.00	-14.26	peak				
00 17.76	26.14	43.90	54.00	-10.10	AVG				
50 32.96	29.19	62.15	74.00	-11.85	peak				
50 16.01	29.19	45.20	54.00	-8.80	AVG				
		64.00	74.00	-12.08	peak				
00 34.19	27.73	61.92	74.00	-12.00	poun				
	25.5°C 1010hPa Charging AC 120V/ AC 120V/ AC 120V/ Reading Level Z dBuV 00 37.31 00 22.31 00 35.66 00 19.40 00 34.99 00 21.78 00 33.60 00 17.76 50 32.96	1010hPa Charging + REC(R AC 120V/60Hz AC 120V/60Hz	$25.5^{\circ}C$ $1010hPa$ Charging + REC(Rear) AC 120V/60Hz AC 120V AC 14 AC 14	25.5°C 1010hPa Charging + REC(Rear) AC 120V/60Hz <	25.5 °C Relativ 1010hPa Test Da Charging + REC(Rear) Polariz AC 120V/60Hz Image: Constant of the second of the	25.5°C Relative Hum 1010hPa Test Date: Charging + REC(Rear) Polarization: AC 120V/60Hz Polarization: AC 120V/60Hz Image: Construction of the second of the s	25.5°C Relative Humidity: Relative Humidity: <td>25.5°C Relative Humidity: 55% 1010hPa Test Date: 2023-0: Charging + REC(Rear) Polarization: Vertical AC 120V/60Hz </td> <td>25.5°C Relative Humidity: 55% 1010hPa Test Date: 2023-03-04 Charging + REC(Rear) Polarization: Vertical AC 120V/60Hz Imit Vertical AC 120V/60Hz Imit Vertical AC 120V/60Hz Imit Vertical AC 120V/60Hz Imit Vertical Vertical Vertical Vertical</td>	25.5°C Relative Humidity: 55% 1010hPa Test Date: 2023-0: Charging + REC(Rear) Polarization: Vertical AC 120V/60Hz	25.5°C Relative Humidity: 55% 1010hPa Test Date: 2023-03-04 Charging + REC(Rear) Polarization: Vertical AC 120V/60Hz Imit Vertical AC 120V/60Hz Imit Vertical AC 120V/60Hz Imit Vertical AC 120V/60Hz Imit Vertical Vertical Vertical Vertical



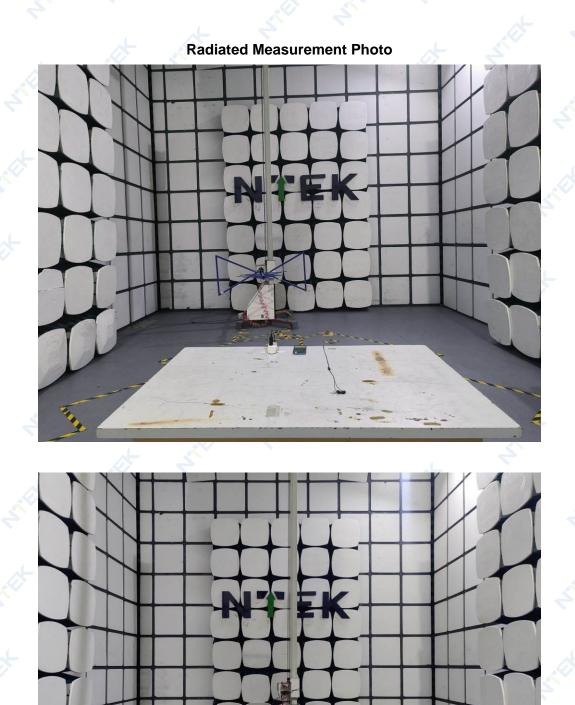
ilac-MRA

ACCREDITED

Certificate #4298.01

Report No.: STR230221007001E

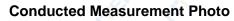
4. EUT TEST PHOTO



Page 22 of 32



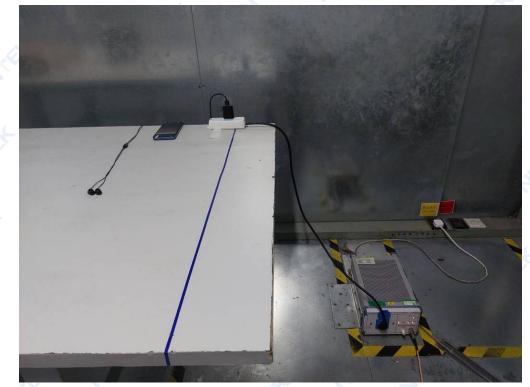




ACCREDITED

Certificate #4298.01

ilac-MR/



Report No.: STR230221007001E

ATTACHMENT PHOTOGRAPHS OF EUT

ACCREDITED

Certificate #4298.01

ilac-MR/

Photo 1



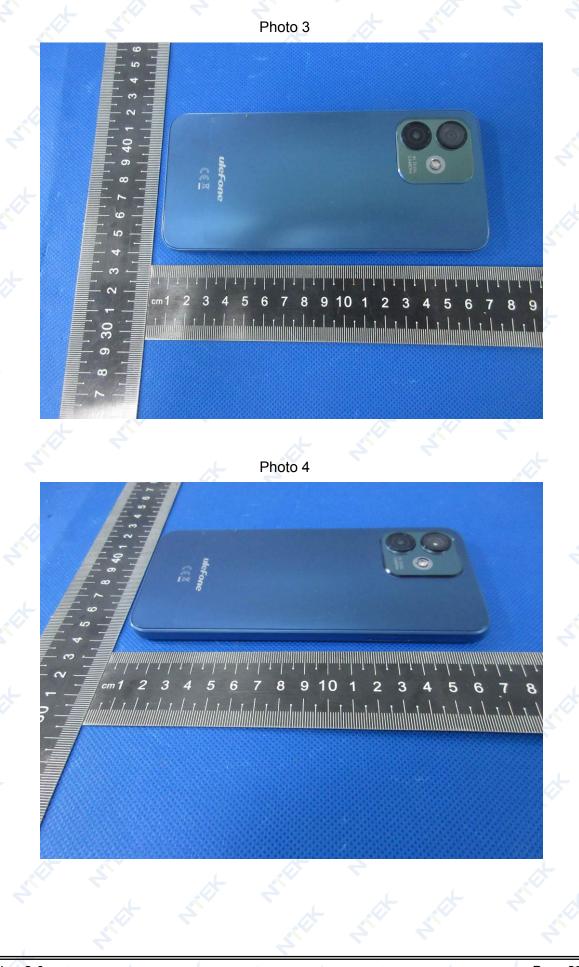
Photo 2







Report No.: STR230221007001E





ACCREDITED

Certificate #4298.01

Report No.: STR230221007001E





ACCREDITED





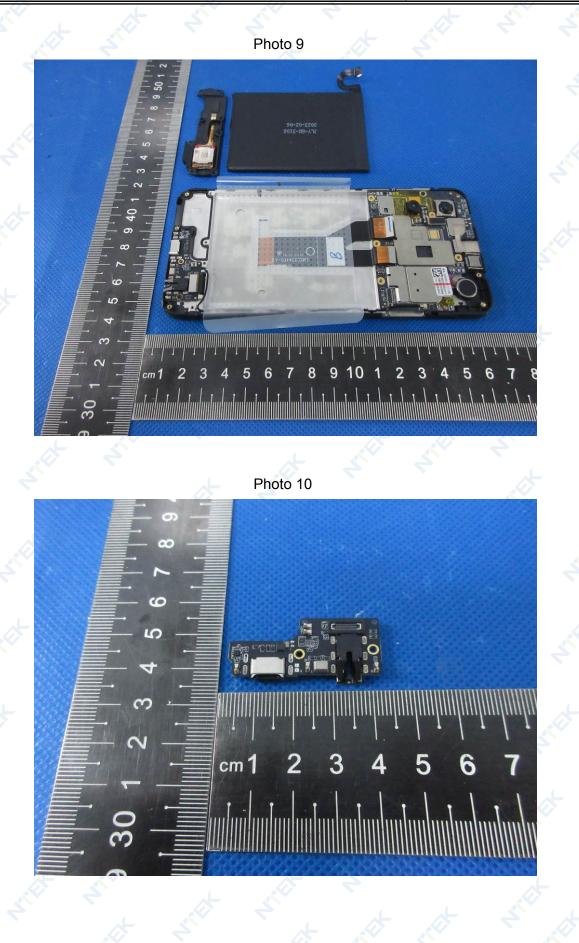


lac-MR

ACCREDITED

Certificate #4298.01

Report No.: STR230221007001E

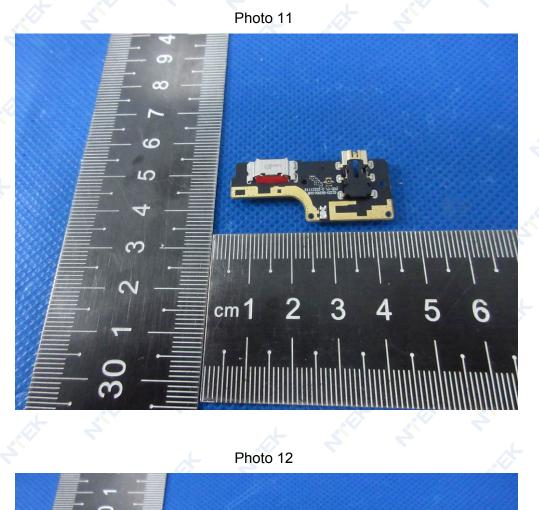




ACCREDITED

Certificate #4298.01





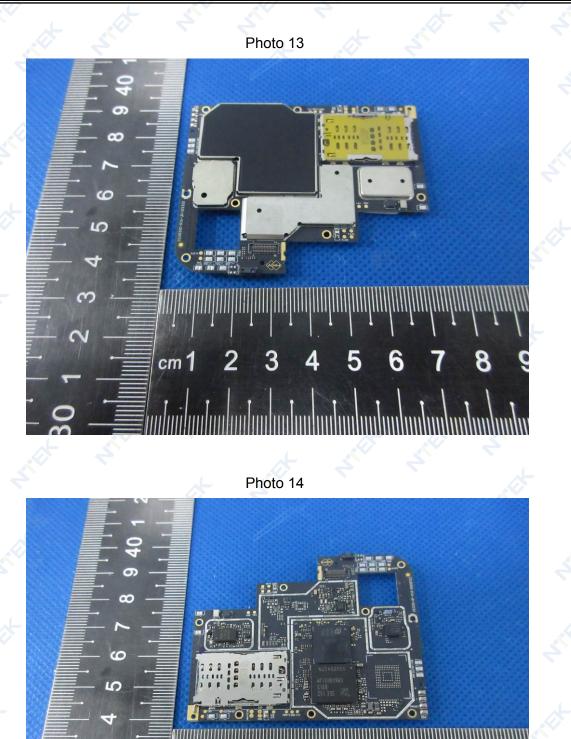




ACCREDITED

Certificate #4298.01





i

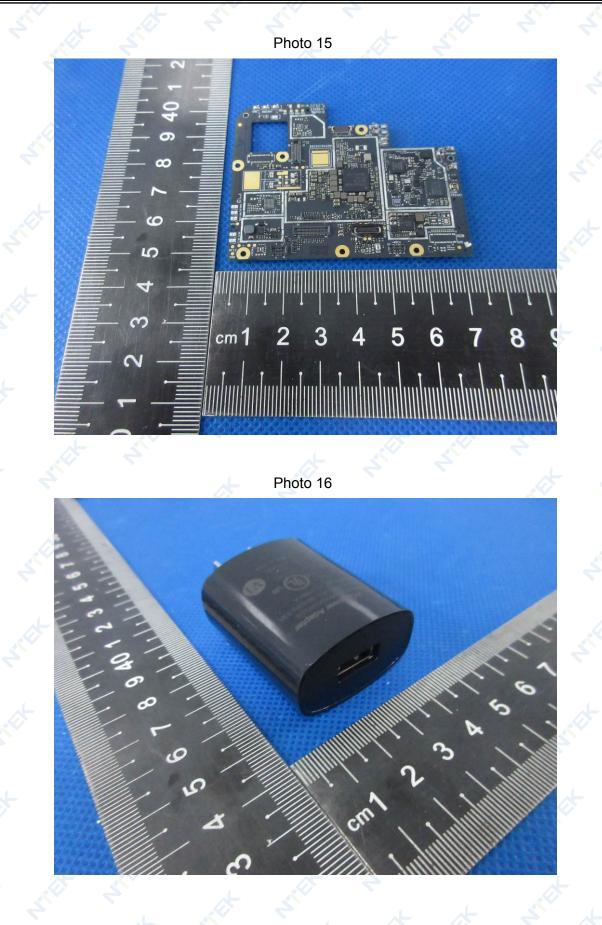
cm 1



ACCREDITED

Certificate #4298.01









Report No.: STR230221007001E

