

# FCC Test Report FCC ID: 2AOWK-5005AF1

**Product: Mobile Phone** 

Trade Mark: ulefone

Model No.: Armor 23 Ultra

Family Model: GQ5005, Armor 23, Armor 23E,

Armor 23S, Armor 23 Lite, Armor 23 Pro, Armor 23 Pro+, Armor 23s,

Armor 23s Pro

Report No.: S23101702907009

Issue Date: Dec 20, 2023

#### Prepared for

Shenzhen Gotron Electronic CO.,LTD.

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

## Prepared by

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#### **TEST RESULT CERTIFICATION**

Applicant's name : Shenzhen Gotron Electronic CO.,LTD.

7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua Address:

District, Shenzhen City, Guangdong Province China

Manufacturer's Name Shenzhen Gotron Electronic CO.,LTD.

7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua Address:

District, Shenzhen City, Guangdong Province China

Product description

Product name: Mobile Phone

Trade Mark..... ulefone

Model and/or type reference : Armor 23 Ultra

Family Model...... GQ5005, Armor 23, Armor 23E, Armor 23S, Armor 23 Lite,

Armor 23 Pro, Armor 23 Pro+, Armor 23s, Armor 23s Pro

Test Sample number .....: \$231017029001

Date of Test .....: Oct 17, 2023 ~ Dec 20, 2023

FCC Part 15B

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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Prepared

Βv

(Project Engineer)

Reviewed By:

(Supervisor)

Approved

(Manager)

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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission								
Standard Test Item Limit Judgment Rer								
FCC Part15B	Conducted Emission	Class B	PASS					
ANSI C63.4: 2014	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.

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## 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

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

#### 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  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %.

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	±2.80dB	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz~1000MHz	±2.64dB	
		1GHz~6GHz	±2.40dB	
		6GHz~26.5GHz	±2.52dB	

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# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone			
Trade Mark	ulefone			
Model Name	Armor 23 Ultra			
Family Model	GQ5005, Armor 23, Arm	or 23E, Armor 23S, Armor 23 Lite, Armor 23 Pro,		
	Armor 23 Pro+, Armor 23	3s, Armor 23s Pro		
Model Difference	All the model are the san	ne circuit and RF module, except the model		
Model Difference	names.			
	Connecting I/O port:	Micro USB, Earphone		
	Operation Frequency:			
Product Description	Based on the application, features, or specification exhibited in User's			
	Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
	Model: HJ-PD120W-US			
	Input: 100-240V~50/60Hz 1.8A			
Adaptor	Output: 5.0V3.0A 15.0W OR 9.03.0A 27.0W			
Adapter	OR 12.0V3.0A 36.0W OR 15.0V3.0A 45.0W			
	OR 20.0V5.0A 10	00.0W MAX		
	PPS: 3.6V-20.0V6.0A 120.0W MAX			
Battery	DC 7.74V, 2640mAh, 20.434Wh			
Power supply	DC 7.74V from battery or DC 5V from adapter			
HW Version	A500-02			
SW Version	N/A			

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# 2.1.1 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.

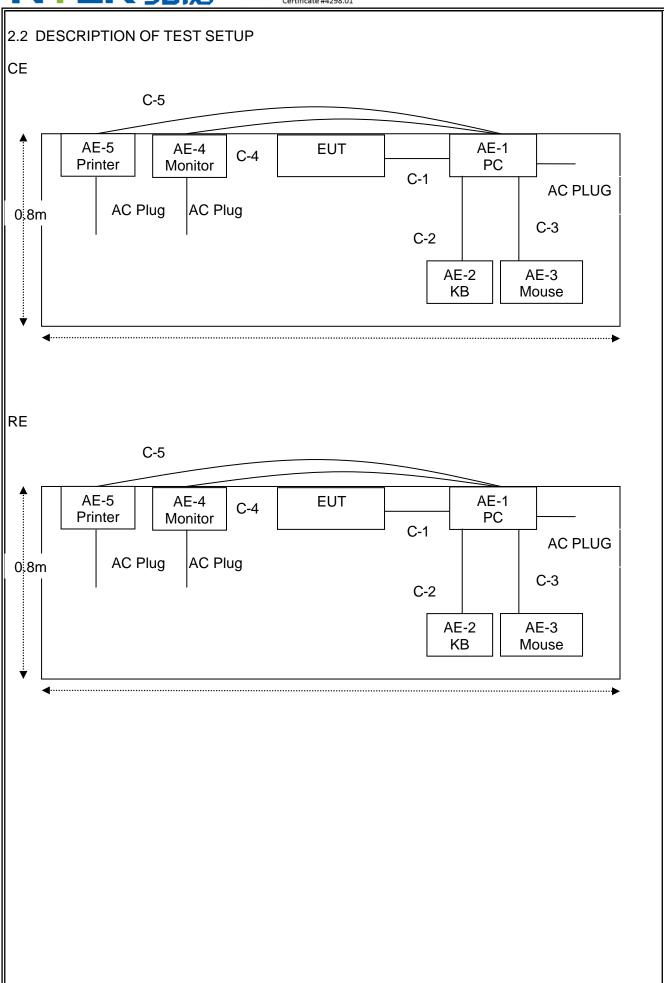
Pretest Mode	Description
Model 1	USB Data Transmission
Model 2	TF card Playing
Model 3	REC
Model 4	FM
Model 5	GPS

For Conducted Test						
Final Test Mode Description						
Model 1	USB Data Transmission					
Model 2	TF card Playing					
Model 3	REC					
Model 4	FM					
Model 5	GPS					

For Radiated Test						
Final Test Mode	Description					
Model 1	USB Data Transmission					
Model 2	TF card Playing					
Model 3	REC					
Model 4	FM					
Model 5	GPS					

Note: Final Test Mode: Through Pre-scan, find the model 1 is the worst case. Only the worst case mode is recorded in the report.

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#### 2.3 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
AE-1	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	N/A	N/A	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	DELL	IN2020MB	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	USB Cable	NO	NO	1.2m	
C-3	USB Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	

#### 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 <code>"Length\_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

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# 2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Aglient	E4440A	MY4100013 0	2023.03.27	2024.03.26	1 year
2	Test Receiver	R&S	ESPI	101318	2023.03.27	2024.03.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.15	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2023.05.06	2026.05.05	3 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2023.03.27	2024.03.26	1 year
6	Horn Antenna	SCHWARZB ECK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.11.07	2025.11.06	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2023.05.29	2024.05.28	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2023.05.29	2024.05.28	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2023.05.29	2024.05.28	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2023.05.29	2024.05.28	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2022.06.17	2025.06.16	3 year
15	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year

AC Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment	rer			calibration	until	n period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	620098370 4	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

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# 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A	(dBuV)	Class B (dBuV)		
FREQUENCY (MHz)	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

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			

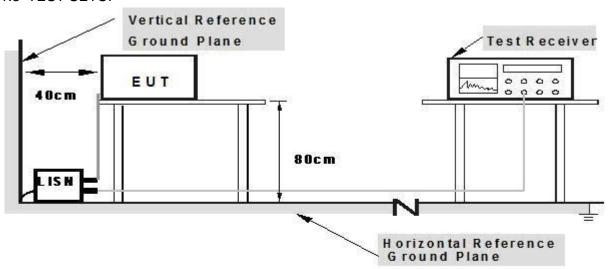
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#### 3.1.2 TEST PROCEDURE

- 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.

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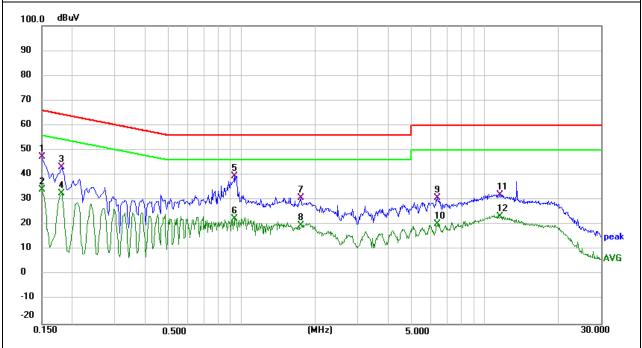
# 3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name.:	Armor 23 Ultra
Temperature:	<b>24.5</b> ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023/10/26
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	37.38	9.93	47.31	66.00	-18.69	QP
0.1500	24.19	9.93	34.12	56.00	-21.88	AVG
0.1819	33.25	9.99	43.24	64.40	-21.16	QP
0.1819	22.60	9.99	32.59	54.40	-21.81	AVG
0.9300	28.15	11.52	39.67	56.00	-16.33	QP
0.9300	11.02	11.52	22.54	46.00	-23.46	AVG
1.7460	17.57	13.16	30.73	56.00	-25.27	QP
1.7460	6.49	13.16	19.65	46.00	-26.35	AVG
6.3740	21.14	9.68	30.82	60.00	-29.18	QP
6.3740	10.57	9.68	20.25	50.00	-29.75	AVG
11.5500	22.40	9.69	32.09	60.00	-27.91	QP
11.5500	13.75	9.69	23.44	50.00	-26.56	AVG

#### Remark:

<sup>2.</sup> Factor = Insertion Loss + Cable Loss.



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<sup>1.</sup> All readings are Quasi-Peak and Average values.

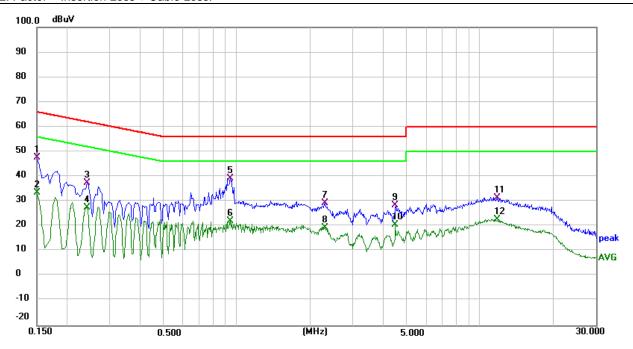


EUT:	Mobile Phone	Model Name. :	Armor 23 Ultra
Temperature:	<b>24.5</b> ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023/10/26
Test Mode:	Mode 1 Adapter	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	37.60	9.93	47.53	66.00	-18.47	QP
0.1500	23.68	9.93	33.61	56.00	-22.39	AVG
0.2420	27.45	10.12	37.57	62.03	-24.46	QP
0.2420	17.51	10.12	27.63	52.03	-24.40	AVG
0.9420	27.84	11.54	39.38	56.00	-16.62	QP
0.9420	10.70	11.54	22.24	46.00	-23.76	AVG
2.3020	19.72	9.66	29.38	56.00	-26.62	QP
2.3020	9.88	9.66	19.54	46.00	-26.46	AVG
4.4860	18.70	9.67	28.37	56.00	-27.63	QP
4.4860	11.00	9.67	20.67	46.00	-25.33	AVG
11.7780	21.80	9.70	31.50	60.00	-28.50	QP
11.7780	13.01	9.70	22.71	50.00	-27.29	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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## 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)
FREQUENCY (MHz)	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

## Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

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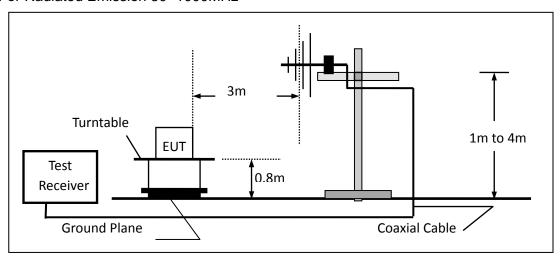


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

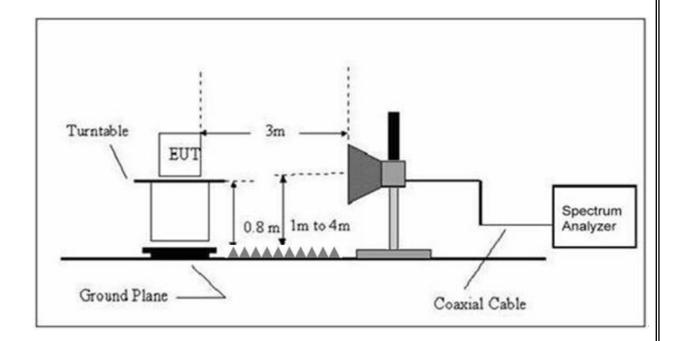
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

#### 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



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# 3.2.4 TEST RESULTS

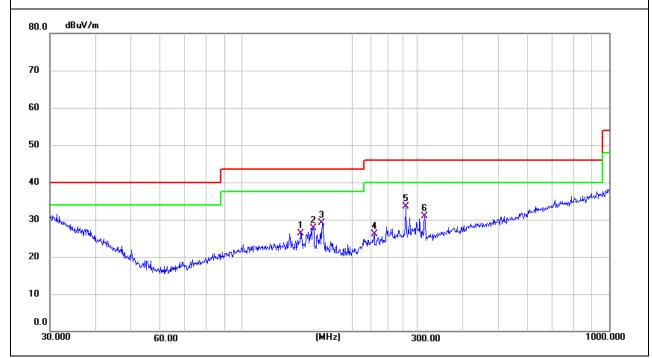
# TEST RESULTS (30~1000 MHz)

EUT:	Mobile Phone	Model Name:	Armor 23 Ultra
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023/10/19
Test Mode:	Mode 1 Adapter	Polarization:	Horizontal
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	reman
Н	144.3348	7.86	18.49	26.35	43.50	-17.15	QP
Н	156.4578	9.56	18.12	27.68	43.50	-15.82	QP
Н	165.4866	11.47	17.60	29.07	43.50	-14.43	QP
Н	229.2931	8.80	17.23	26.03	46.00	-19.97	QP
Н	279.0436	13.70	19.81	33.51	46.00	-12.49	QP
Н	314.3765	10.55	20.28	30.83	46.00	-15.17	QP

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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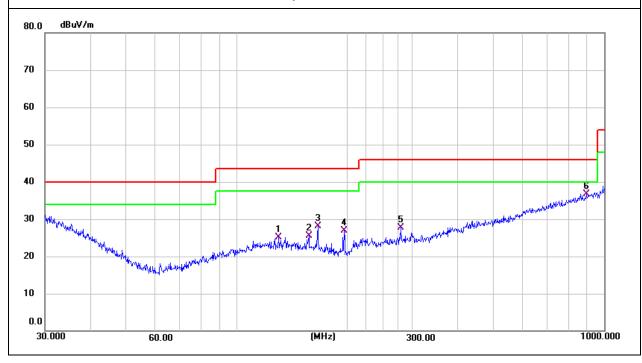


EUT:	Mobile Phone	Model Name :	Armor 23 Ultra
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023/10/19
Test Mode:	Mode 1 Adapter	Polarization :	Vertical
Test Power:	DC 5V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	129.9226	6.34	18.75	25.09	43.50	-18.41	QP
V	157.0074	7.46	18.09	25.55	43.50	-17.95	QP
V	166.0680	10.57	17.57	28.14	43.50	-15.36	QP
V	195.8220	10.61	16.21	26.82	43.50	-16.68	QP
V	279.0436	7.99	19.81	27.80	46.00	-18.20	QP
V	893.8564	6.23	30.54	36.77	46.00	-9.23	QP

## Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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# 3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Mobile Phone	Model Name :	Armor 23 Ultra
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023/10/20
Test Mode:	Mode 1		
Test Power:	DC 5V from PC AC 120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit		
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	rtemant	
V	9109.000	30.48	21.30	51.78	74.00	-22.22	peak	
V	9109.000	18.38	21.30	39.68	54.00	-14.32	AVG	
V	13716.000	30.37	25.65	56.02	74.00	-17.98	peak	
V	13716.000	14.47	25.65	40.12	54.00	-13.88	AVG	
V	17915.000	31.32	25.60	56.92	74.00	-17.08	peak	
V	17915.000	17.24	25.60	42.84	54.00	-11.16	AVG	
Н	9126.000	31.78	21.27	53.05	74.00	-20.95	peak	
Н	9126.000	18.97	21.27	40.24	54.00	-13.76	AVG	
Н	13886.000	29.65	25.74	55.39	74.00	-18.61	peak	
Н	13886.000	15.62	25.74	41.36	54.00	-12.64	AVG	
Н	17932.000	31.31	25.66	56.97	74.00	-17.03	peak	
Н	17932.000	16.52	25.66	42.18	54.00	-11.82	AVG	

#### Remark:

Result = Reading + Correct, Over Limit= Result - Limit
Note: Only the worst results data points are reported in the report.

Other emissions are attenuated 20dB below the limit that does not recorded in the report.

**END OF REPORT** 

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