

# FCC Test Report FCC ID: 2AOKUW11

**Product:** Smartphone

Trade Mark: HOTWAV

Model No.: W11

Family Model: W11 Max, W11 Ultra, W11 Pro, W12,

W12 Max, W12 Ultra, W12 Pro, W13, W13 Max, W13 Ultra, W13 Pro, W15, W15 Max, W15 Ultra, W15 Pro, W16, W16 Pro, W16 Max, W16 Ultra, W17, W17 Pro, W17 Max, W17 Ultra, W18, W18 Pro, W18 Max, W18 Ultra, W19, W19 Pro, W19 Max, W19 Ultra, W20,

W20 Pro, W20 Max, W20 Ultra

**Report No.:** \$24022303406007

Issue Date: Mar 21, 2024

### **Prepared for**

SHENZHEN TUGAO INTELLIGENT CO.,LTD

8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong,
Bao'an District, Shenzhen, China

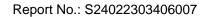
### Prepared by

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Website:http://www.ntek.org.cn

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### TEST RESULT CERTIFICATION

Applicant's name.....: SHENZHEN TUGAO INTELLIGENT CO.,LTD

Bao'an District, Shenzhen, China

Manufacturer's Name.....: SHENZHEN TUGAO INTELLIGENT CO.,LTD

Bao'an District, Shenzhen, China

Product description

Product name: Smartphone Trade Mark..... HOTWAV

Model and/or type reference: W11

Family Model...... W11 Max, W11 Ultra, W11 Pro, W12, W12 Max, W12 Ultra,

W12 Pro, W13, W13 Max, W13 Ultra, W13 Pro, W15, W15 Max, W15 Ultra, W15 Pro, W16, W16 Pro, W16 Max, W16 Ultra, W17, W17 Pro, W17 Max, W17 Ultra, W18, W18 Pro, W18 Max,

W18 Ultra, W19, W19 Pro, W19 Max, W19 Ultra, W20, W20 Pro,

W20 Max, W20 Ultra

Test Sample number .....: S240223034006

Date of Test ...... Feb 23, 2024 ~ Mar 21, 2024

FCC Part 15B Standards..... 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: Aaron Chara Aaron Cheng (Supervisor)

Approved . By

(Manager)

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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission									
Standard Test Item Limit Judgment Rem									
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	Smartphone				
Trade Mark	HOTWAV				
Model Name	W11				
Family Model	W11 Max, W11 Ultra, W11 Pro, W12, W12 Max, W12 Ultra,				
	W12 Pro, W13, W13 Max, W13 Ultra, W13 Pro, W15, W15 Max, W15				
	Ultra, W15 Pro, W16, W16 Pro, W16 Max, W16 Ultra, W17, W17 Pro,				
	W17 Max, W17 Ultra, W18, W18 Pro, W18 Max, W18 Ultra, W19, W19				
	Pro, W19 Max, W19 Ultra, W20, W20 Pro, W20 Max, W20 Ultra				
Model Difference	All the model are the same circuit and RF module, except the model				
Model Dillerence	names.				
Product Description	Connecting I/O port: Micro USB, Earphone Operation Frequency: 5.8GHz  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.				
Adapter	Model: HJ-C6-33-US Input:100-240V~50/60Hz 0.8A Output:(PD) 5.0V 3.0A 15.0W or 9.0V3.0A 27.0W or 12.0V2.5A 30.0W or 15.0V 2.0A 30.0W or 20.0V1.5A 30.0W (PPS)3.3V-11.0V3.0A(33.0W MAX)				
Battery	DC 3.87V, 20800mAh, 80.5Wh				
Power supply	DC 3.87V from battery or DC 5V from adapter				
HW Version	N/A				
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.

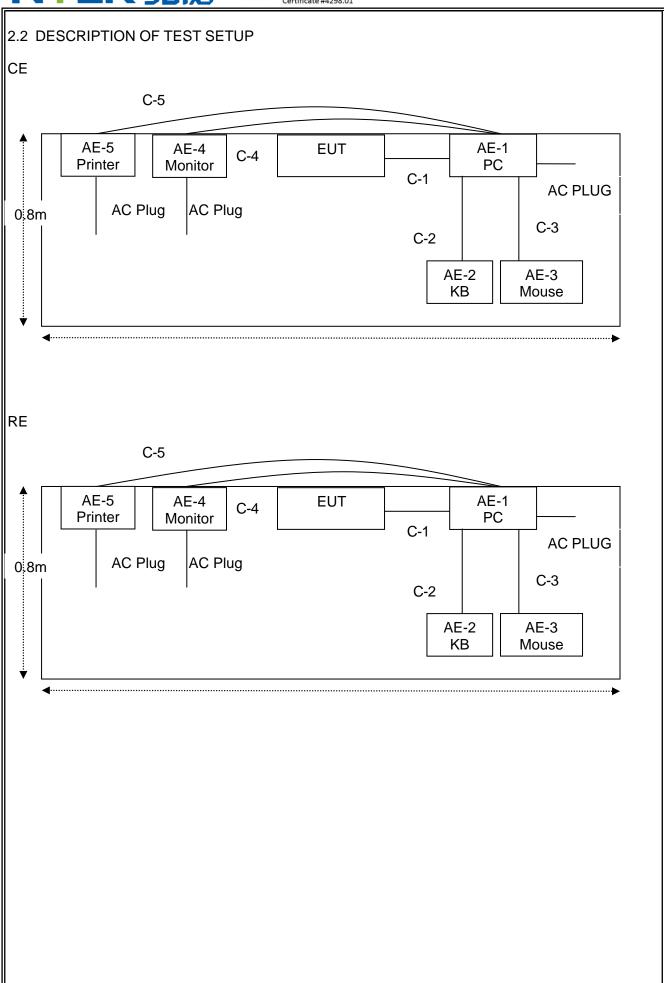
Pretest Mode	Description
Model 1	USB Data Transmission
Model 2	TF card Playing
Model 3	REC
Model 4	FM
Model 5	GPS

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 2024.03.11	2024.03.15 2025.03.10	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	2026.01.11	3 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
пстт	Equipment	rer	турстчо.	Octiai 140.	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	ne reliewing table to the cetting of the receiver				
Receiver Parameters	Setting				
Attenuation	10 dB				
Start Frequency	0.15 MHz				
Stop Frequency	30 MHz				
IF Bandwidth	9 kHz				

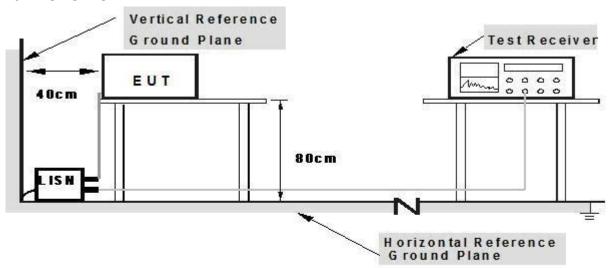
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### 3.1.2 TEST PROCEDURE

- 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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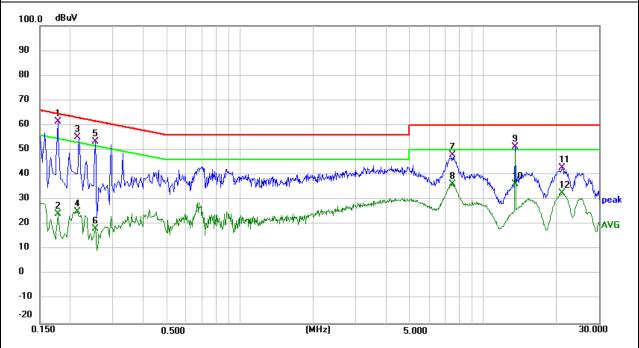
# 3.1.5 TEST RESULTS

EUT:	Smartphone	Model Name. :	W11
Temperature:	<b>24.5</b> ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2024/2/29
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
0.1780	51.32	9.99	61.31	64.58	-3.27	QP
0.1780	14.16	9.99	24.15	54.58	-30.43	AVG
0.2140	44.96	10.06	55.02	63.05	-8.03	QP
0.2140	14.96	10.06	25.02	53.05	-28.03	AVG
0.2540	43.11	10.14	53.25	61.63	-8.38	QP
0.2540	8.20	10.14	18.34	51.63	-33.29	AVG
7.4940	38.38	9.68	48.06	60.00	-11.94	QP
7.4940	26.45	9.68	36.13	50.00	-13.87	AVG
13.5620	41.45	9.70	51.15	60.00	-8.85	QP
13.5620	26.43	9.70	36.13	50.00	-13.87	AVG
21.2300	33.18	9.70	42.88	60.00	-17.12	QP
21.2300	22.96	9.70	32.66	50.00	-17.34	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.

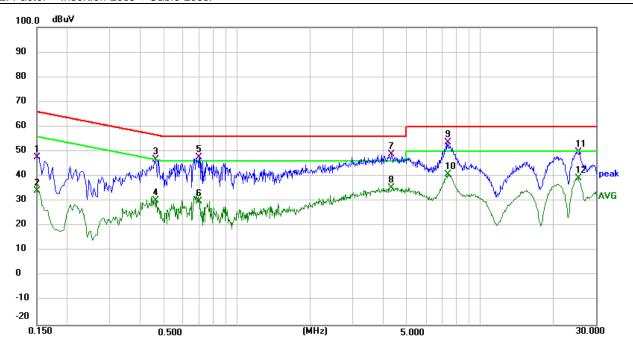


EUT:	Smartphone	Model Name. :	W11
Temperature:	<b>24.5</b> ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2024/2/29
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	37.75	9.93	47.68	66.00	-18.32	QP
0.1500	24.23	9.93	34.16	56.00	-21.84	AVG
0.4660	36.14	10.59	46.73	56.58	-9.85	QP
0.4660	19.53	10.59	30.12	46.58	-16.46	AVG
0.6980	36.46	11.05	47.51	56.00	-8.49	QP
0.6980	18.81	11.05	29.86	46.00	-16.14	AVG
4.3260	39.04	9.67	48.71	56.00	-7.29	QP
4.3260	25.69	9.67	35.36	46.00	-10.64	AVG
7.3780	43.96	9.68	53.64	60.00	-6.36	QP
7.3780	31.09	9.68	40.77	50.00	-9.23	AVG
25.3819	40.01	9.63	49.64	60.00	-10.36	QP
25.3819	29.58	9.63	39.21	50.00	-10.79	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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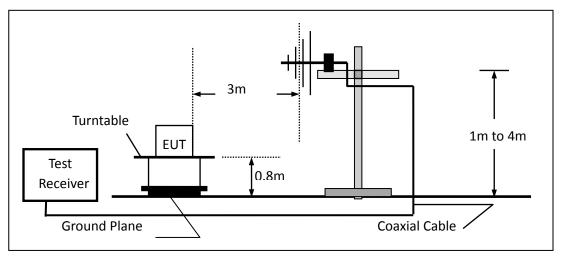


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

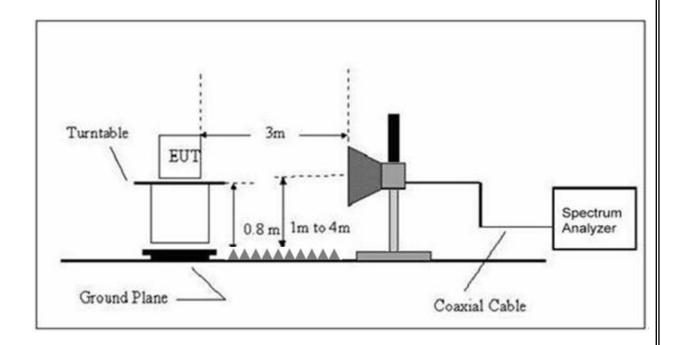
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

### 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

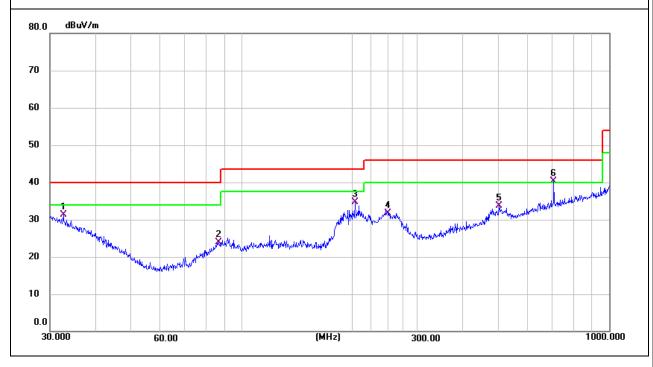
# TEST RESULTS (30~1000 MHz)

	( )		
EUT:	Smartphone	Model Name:	W11
Temperature:	<b>24.5</b> ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024/2/28
Test Mode:	Mode 1	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)	rterria it
Н	32.6340	6.45	24.95	31.40	40.00	-8.60	QP
Н	86.5029	7.70	16.19	23.89	40.00	-16.11	QP
Н	203.5228	18.38	16.30	34.68	43.50	-8.82	QP
Н	249.4250	13.06	18.74	31.80	46.00	-14.20	QP
Н	501.1790	8.86	24.77	33.63	46.00	-12.37	QP
Н	706.6999	12.33	27.94	40.27	46.00	-5.73	QP

### Remark<sup>\*</sup>

Factor = Antenna Factor + Cable Loss - Amplifier.



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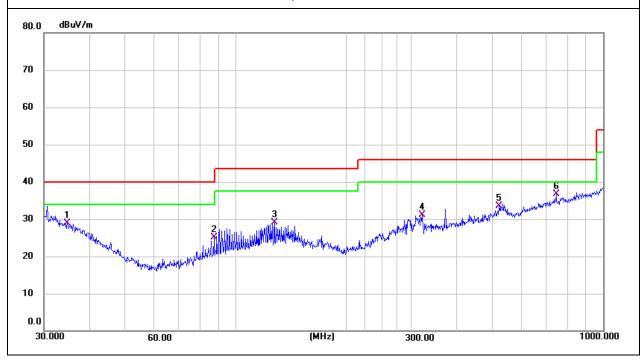


EUT:	Smartphone	Model Name :	W11
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024/2/29
Test Mode:	Mode 1	Polarization:	Vertical
Test Power:	DC 5V from PC AC 120V/60Hz	_	

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	34.7602	5.18	23.69	28.87	40.00	-11.13	QP
V	87.1117	8.92	16.22	25.14	40.00	-14.86	QP
V	127.2176	10.49	18.66	29.15	43.50	-14.35	QP
V	321.0608	10.61	20.49	31.10	46.00	-14.90	QP
V	520.8882	8.28	25.22	33.50	46.00	-12.50	QP
V	744.8661	7.95	28.75	36.70	46.00	-9.30	QP

# Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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# 3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Smartphone	Model Name :	W11
Temperature:	<b>24.5</b> ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2024/02/22
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	Remark	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	rtemant	
V	3006.000	51.74	-15.71	36.03	74.00	-37.97	peak	
V	5403.000	53.26	-12.90	40.36	74.00	-33.64	peak	
V	9313.000	48.22	-5.42	42.80	74.00	-31.20	peak	
V	12696.000	45.73	-1.55	44.18	74.00	-29.82	peak	
V	14430.000	44.94	-0.94	44.00	74.00	-30.00	peak	
V	17966.000	41.01	4.19	45.20	74.00	-28.80	peak	
Н	3040.000	51.93	-15.65	36.28	74.00	-37.72	peak	
Н	6457.000	51.53	-10.45	41.08	74.00	-32.92	peak	
Н	8956.000	48.83	-5.84	42.99	74.00	-31.01	peak	
Н	10588.000	47.46	-3.74	43.72	74.00	-30.28	peak	
Н	13580.000	45.69	-1.06	44.63	74.00	-29.37	peak	
Н	17983.000	39.76	4.30	44.06	74.00	-29.94	peak	

### 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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