

FCC Test Report FCC ID: 2AOKU-NOTE12

Product: Smartphone

Trade Mark: HOTWAV

Model No.: Note 12

Family Model: Note

Report No.: STR230417001007E

Issue Date: May 22, 2023

Prepared for

SHENZHEN TUGAO INTELLIGENT CO.,LTD

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

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Address:	8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'anDistrict, Shenzhen, China
Manufacturer's Name:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Address:	8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'anDistrict, Shenzhen, China
Product description	
Product name:	Smartphone
Trade Mark:	HOTWAV
Model and/or type reference :	Note 12
Family Model:	Note
Standards:	FCC Part 15B ANSI C63.4:2014
	as been tested by NTEK, and the test results show that the in compliance with Part 15 of FCC Rules. And it is applicable only in the report.
·	iced except in full, without the written approval of NTEK, this vised by NTEK, personnel only, and shall be noted in the revision
Test Sample Number	: T230417001R003
Date of Test	:
Date (s) of performance of tests	: Apr 17, 2023 ~ May 22, 2023
Date of Issue	: May 22, 2023
Test Result	: Pass
Testing Engineer	: (Mary Hu)
Authorized Signatory	: (Alex Li)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B 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.

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Report No.: STR230417001007E

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.

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	Note 12			
Family Model	Note			
Model Difference	All the model are the san	ne circuit and RF module,except the model		
Model Difference	name.			
	Connecting I/O port:	Micro USB, Earphone		
Product Description	Operation Frequency:	5.8GHz		
T TOUGHT D GOOT PRO	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: QA-0200CA03			
Adaptor	Input: 100-240V~50/60Hz 0.5A			
Adapter	Output: USB-C: 5.0V3.0A			
	or 9.0V2.22A or 12.0V1.67A(20.0W)			
Battery	DC 3.87V, 6180mAh, 23.92Wh			
Power supply	DC 3.87V from battery or DC 5V from adapter			
HW Version	J535C_9230MB_D4XEF_V1.0			
SW Version	HOTWAV_Note 12_NM_	_V01_20230425		

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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.

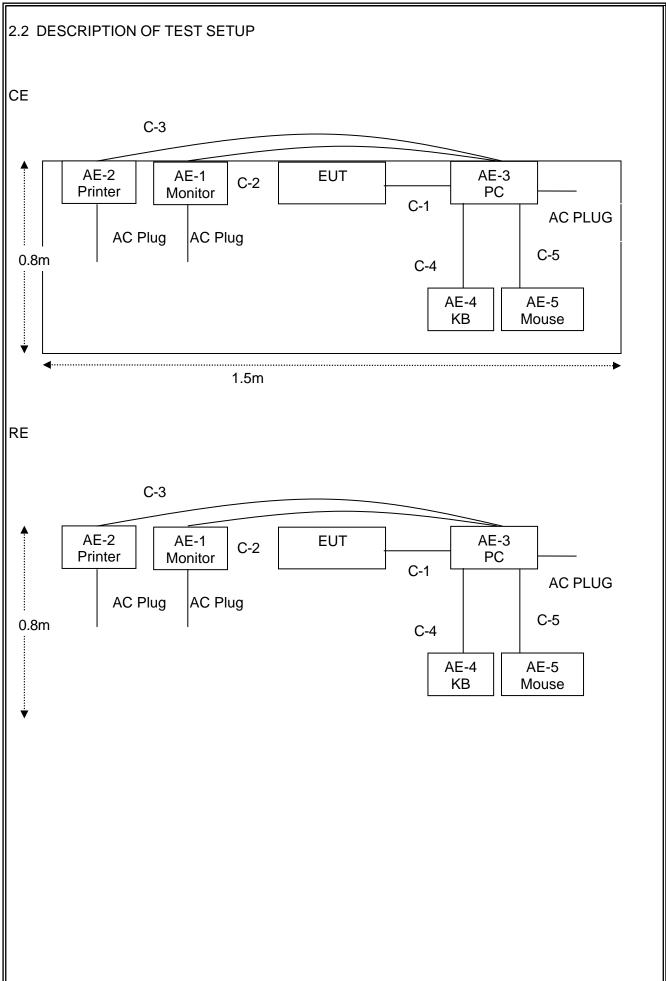
Pretest Mode	Description
Model 1	USB Data Transmission
Model 2	TF card Playing
Model 3	REC
Model 4	FM
Model 5	GPS

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	Model/Type No.	Series No.	Note
AE-1	Monitor	N/A	N/A	Peripherals
AE-2	Printer	N/A	N/A	Peripherals
AE-3	PC	N/A	N/A	Peripherals
AE-4	KB	N/A	N/A	Peripherals
AE-5	Mouse	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	HDMI Cable	YES	NO	1.0m	
C-3	Power Cable	YES	NO	1.5m	
C-4	KB Cable	NO	NO	1.0m	
C-5	Mouse Cable	NO	NO	1.0m	

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".

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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	2020.05.11 2023.05.06	2023.05.10 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	2023.11.06	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2022.06.17	2023.06.16	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2022.11.04	2023.11.03	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2022.06.16	2023.06.15	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2022.06.16	2023.06.15	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

	AO Conduction rest 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	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11 2023.05.06	2023.05.10 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)

EDEOLIENCY (MH-)	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

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

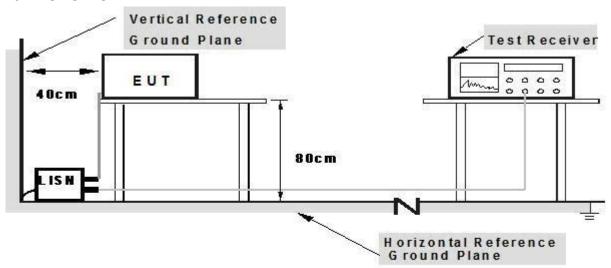
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3.1.2 TEST PROCEDURE

- 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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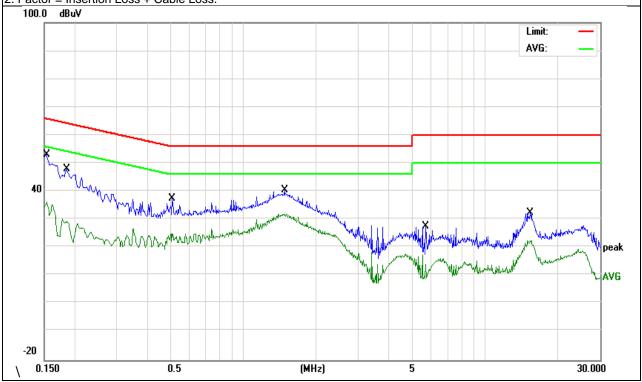
3.1.5 TEST RESULTS

EUT:	Smartphone	Model Name. :	Note 12
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023-4-20
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
0.1539	43.56	9.63	53.19	65.78	-12.59	QP
0.1539	26.49	9.63	36.12	55.78	-19.66	AVG
0.1874	37.40	9.63	47.03	64.15	-17.12	QP
0.1874	19.31	9.63	28.94	54.15	-25.21	AVG
0.5100	27.94	9.65	37.59	56.00	-18.41	QP
0.5100	15.10	9.65	24.75	46.00	-21.25	AVG
1.4819	30.67	9.66	40.33	56.00	-15.67	QP
1.4819	21.68	9.66	31.34	46.00	-14.66	AVG
5.6779	17.81	9.68	27.49	60.00	-32.51	QP
5.6779	-0.47	9.68	9.21	50.00	-40.79	AVG
15.4100	22.77	9.71	32.48	60.00	-27.52	QP
15.4100	12.86	9.71	22.57	50.00	-27.43	AVG

Remark:

^{2.} Factor = Insertion Loss + Cable Loss.



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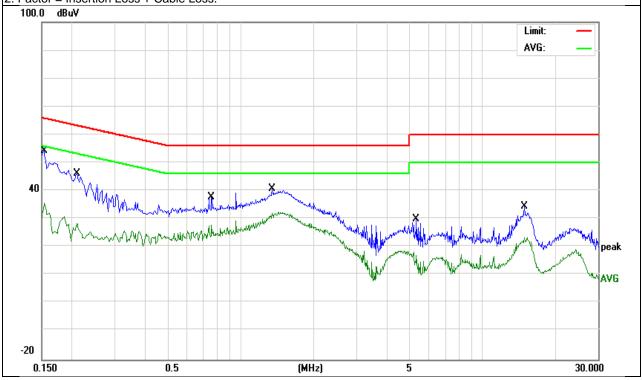
^{1.} All readings are Quasi-Peak and Average values.

EUT:	Smartphone	Model Name. :	Note 12
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2023-4-20
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
0.1539	44.68	9.63	54.31	65.78	-11.47	QP
0.1539	25.87	9.63	35.50	55.78	-20.28	AVG
0.2100	36.59	9.64	46.23	63.20	-16.97	QP
0.2100	18.74	9.64	28.38	53.20	-24.82	AVG
0.7580	27.97	9.66	37.63	56.00	-18.37	QP
0.7580	18.08	9.66	27.74	46.00	-18.26	AVG
1.3500	31.09	9.66	40.75	56.00	-15.25	QP
1.3500	22.39	9.66	32.05	46.00	-13.95	AVG
5.3220	20.17	9.67	29.84	60.00	-30.16	QP
5.3220	7.41	9.67	17.08	50.00	-32.92	AVG
14.8300	24.61	9.70	34.31	60.00	-25.69	QP
14.8300	13.50	9.70	23.20	50.00	-26.80	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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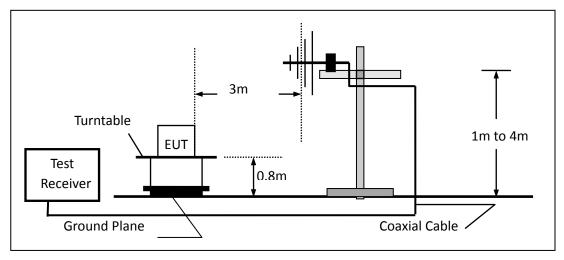


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

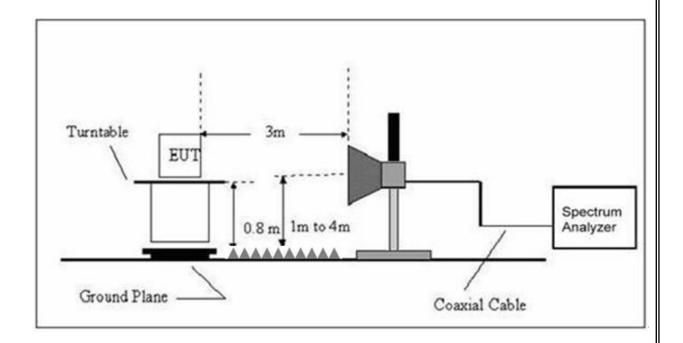
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

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

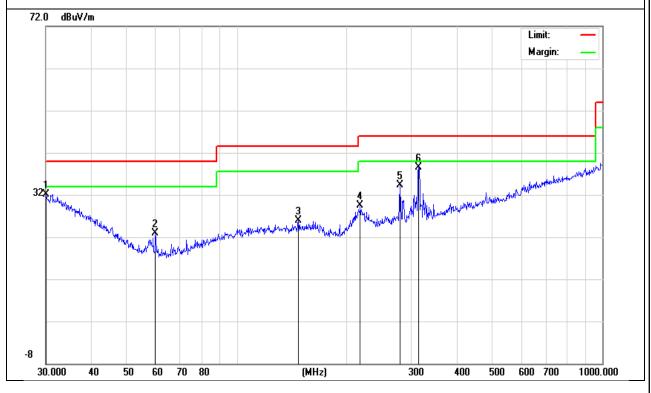
TEST RESULTS (30~1000 MHz)

	(00 1000 1111 12)		
EUT:	Smartphone	Model Name:	Note 12
Temperature:	24.5 °C	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023-4-20
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)	reman
Н	30.0000	5.71	26.47	32.18	40.00	-7.82	QP
Н	59.8588	10.85	12.13	22.98	40.00	-17.02	QP
Н	147.4036	7.32	18.57	25.89	43.50	-17.61	QP
Н	217.5443	12.62	16.92	29.54	46.00	-16.46	QP
Н	279.0436	14.41	19.96	34.37	46.00	-11.63	QP
Н	314.3765	18.20	20.40	38.60	46.00	-7.40	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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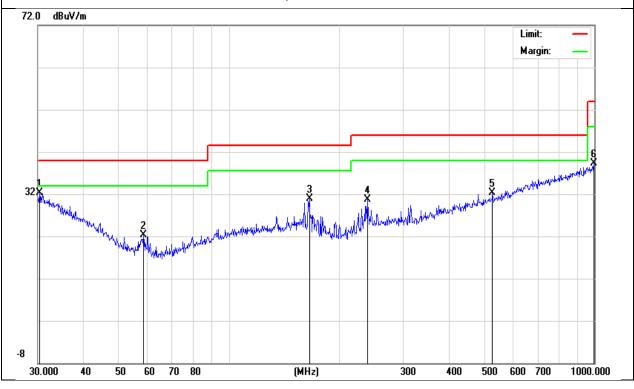


EUT:	Smartphone	Model Name :	Note 12
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023-4-20
Test Mode:	Mode 1	Polarization :	Vertical
Test Power:	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.3173	6.11	26.29	32.40	40.00	-7.60	QP
V	58.4074	9.92	12.35	22.27	40.00	-17.73	QP
V	166.0680	13.12	17.72	30.84	43.50	-12.66	QP
V	239.1473	12.72	17.99	30.71	46.00	-15.29	QP
V	526.3967	7.11	25.27	32.38	46.00	-13.62	QP
V	996.4996	6.73	32.50	39.23	54.00	-14.77	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Smartphone	Model Name :	Note 12
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023-4-21
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	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
(H/V)	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
V	7341.000	32.71	22.09	54.80	74.00	-19.20	peak
V	7341.000	17.26	22.09	39.35	54.00	-14.65	AVG
V	8497.000	32.60	23.60	56.20	74.00	-17.80	peak
V	8497.000	17.35	23.60	40.95	54.00	-13.05	AVG
V	10809.000	32.72	26.27	58.99	74.00	-15.01	peak
V	10809.000	17.52	26.27	43.79	54.00	-10.21	AVG
V	13359.000	30.55	28.65	59.20	74.00	-14.80	peak
V	13359.000	15.63	28.65	44.28	54.00	-9.72	AVG
V	15382.000	32.68	27.62	60.30	74.00	-13.70	peak
V	15382.000	17.52	27.62	45.14	54.00	-8.86	AVG
V	16776.000	32.72	27.38	60.10	74.00	-13.90	peak
V	16776.000	17.53	27.38	44.91	54.00	-9.09	AVG
Н	7596.000	33.09	22.11	55.20	74.00	-18.80	peak
Н	7596.000	18.32	22.11	40.43	54.00	-13.57	AVG
Н	9602.000	32.04	24.76	56.80	74.00	-17.20	peak
Н	9602.000	17.25	24.76	42.01	54.00	-11.99	AVG
Н	10197.000	32.03	25.37	57.40	74.00	-16.60	peak
Н	10197.000	17.52	25.37	42.89	54.00	-11.11	AVG
Н	12526.000	30.37	27.63	58.00	74.00	-16.00	peak
Н	12526.000	15.24	27.63	42.87	54.00	-11.13	AVG
Н	15467.000	31.70	27.50	59.20	74.00	-14.80	peak
Н	15467.000	16.32	27.50	43.82	54.00	-10.18	AVG
Н	16385.000	32.16	26.64	58.80	74.00	-15.20	peak
Н	16385.000	17.39	26.64	44.03	54.00	-9.97	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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