

FCC Test Report FCC ID: ZSW-30-140

Product: Mobile Phone Trade Mark: Bmobile Model Number: Venus Family Model: N/A Report No.: S25031804501001

Prepared for

b mobile HK Limited

FLAT/RM 1202, 12/F GOLDEN STAR BUILDING, 20 LOCKHART ROAD, WANCHAI, HK, CHINA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoar District, Shenzhen, Guangdong, People's Republic of China

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TEST RESULT CERTIFICATION

	Applicant's name:	b mobile HK Limited
	Address:	FLAT/RM 1202, 12/F GOLDEN STAR BUILDING, 20 LOCKHART ROAD, WANCHAI, HK, CHINA
	Manufacturer's Name:	b mobile HK Limited
	Address:	FLAT/RM 1202, 12/F GOLDEN STAR BUILDING, 20 LOCKHART ROAD, WANCHAI, HK, CHINA
	Product description	
	Product name:	Mobile Phone
Model and/or type reference :		Venus
	Family Model:	N/A
Standards		FCC Part15B 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 on to the tested sample identified in the report.		
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Test Sample Number:	S250318045001
Date of Test	
Date (s) of performance of tests::	Mar. 19, 2025 ~ Apr. 09, 2025
Date of Issue:	Apr. 09, 2025
Test Result	Pass

(Project Engineer)

Prepared By: Allen Liu Reviewed By: Aaron Cheng By: By: Marcheng By: M

(Supervisor)

Alex Li (Manager)



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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission						
Standard	Test Item	Limit	Judgment	Remark		
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.



1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd Add. : No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of 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 $y \pm U$, 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 %.

A. Conducted Measurement :

Test Site	Method	od Measurement Frequency Range		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	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone		
Trade Mark	Bmobile		
Model Name	Venus		
Family Model	N/A		
Model Difference	N/A		
Product Description	Connecting I/O port: Type-C USB, Earphone Operation Frequency: 2.4GHz 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	INPUT: AC 100-240V~50-60Hz 0.3A OUTPUT: DC 5.0V2A		
Battery	Rated Capacity: DC 3.85V, 4900 mAh, 18.86Wh Typical Capacity: DC 3.85V, 5000 mAh, 19.25Wh		
Power supply DC 3.85V from Battery or DC 5V from Adapter.			
HW Version	Bmobile_VENUS_HW_V1.0		
SW Version	Bmobile_VENUS_TIGO_LATAM_V001		



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

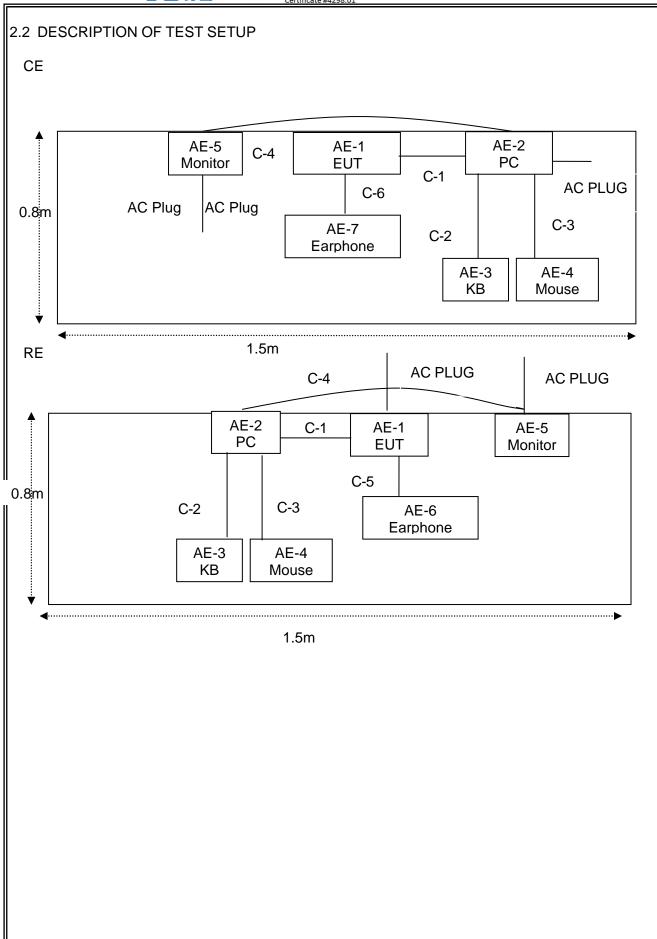
For Conducted Test				
Final Test Mode	Description			
Model 1	USB Data Transmission			
Model 2	TF card Playing			
Model 3	REC			
Model 4	FM			
Model 5	GPS			

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	Mobile Phone	Bmobile	Venus	N/A	EUT
AE-2	PC	DELL	FT4Y23X	N/A	Peripherals
AE-3	KB	N/A	N/A	N/A	Peripherals
AE-4	Mouse	N/A	N/A	N/A	Peripherals
AE-5	Monitor	N/A	N/A	N/A	Peripherals
AE-6	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	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	Earphone 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 $\[$ Length $\]$ 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	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Test Receiver	R&S	ESPI	101318	2024.04.26	2025.04.25	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2025.04.25	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2024.03.12 2025.03.11	2025.03.11 2026.03.10	1 year
6	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.05.12	2027.05.11	3 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2024.05.12	2027.05.11	3 year
8	Amplifier	EMC	EMC051835 SE	980246	2024.04.25	2025.04.24	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2024.04.25	2025.04.24	1 year
10	Power Meter	DARE	RPR3006W	15I00041SN 084	2024.04.25	2025.04.24	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619.0 5	2024.04.25	2025.04.24	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
13	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2023.05.06	2026.05.05	3 year
15	Test Receiver	R&S	ESCI	101160	2024.04.26	2025.04.25	1 year

Kind of Last Calibrated Calibration Manufacturer Type No. Serial No. Item Equipment calibration until period Test Receiver R&S ESCI 1 101160 2024.04.26 2025.04.25 1 year 2 LISN R&S ENV216 101313 2024.04.25 2025.04.24 1 year SCHWARZBE LISN NNLK 8129 8129245 3 2024.04.25 2025.04.24 1 year CK 50Ω Coaxial ANRITSU 4 MP59B 6200983704 2024.04.26 2027.04.25 3 year Switch CORP Test Cable C01 5 (9KHz-30MH N/A N/A 2023.05.06 2026.05.05 3 year Z) Test Cable 6 (9KHz-30MH N/A C02 N/A 2023.05.06 2026.05.05 3 year Z) Test Cable (9KHz-30MH 7 N/A C03 N/A 2023.05.06 2026.05.05 3 year Z)

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



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

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

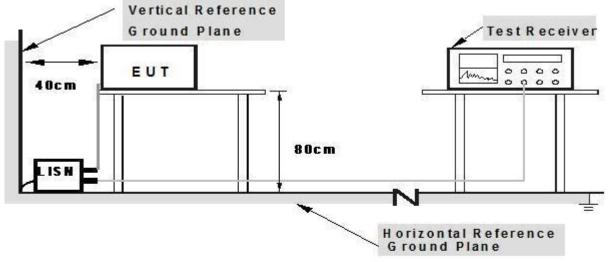
The following table is the setting of the receiver

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.

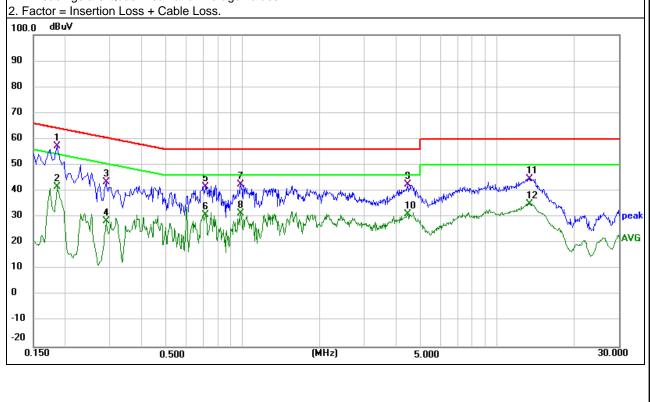


3.1.5 TEST RESULTS

EUT:	Mobile Pho	one	Mod	el Name. :	Venus	
Temperature:	25.2 ℃		Rela	tive Humidity:	47%	
Pressure:	essure: 1010hPa Test Date: 2025-03-21					
Test Mode:	st Mode: Mode 1 Phase : L					
Test Voltage: DC 5V from PC AC 120V/60Hz						
Frequency	Reading Level	Correct Factor	Measure-men	t Limits	Margin	Domori
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1860	47.27	10.07	57.34	64.21	-6.87	QP
0.1860	31.46	10.07	41.53	54.21	-12.68	AVG
0.2900	33.19	10.27	43.46	60.52	-17.06	QP
0.2900	18.21	10.27	28.48	50.52	-22.04	AVG
0.7140	30.60	11.13	41.73	56.00	-14.27	QP
0.7140	19.70	11.13	30.83	46.00	-15.17	AVG
0.9820	31.00	11.69	42.69	56.00	-13.31	QP
0.9820	19.86	11.69	31.55	46.00	-14.45	AVG
4.4500	32.41	10.04	42.45	56.00	-13.55	QP
4.4500	21.02	10.04	31.06	46.00	-14.94	AVG
13.3740	46.62	-1.84	44.78	60.00	-15.22	QP
13.3740	37.01	-1.84	35.17	50.00	-14.83	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

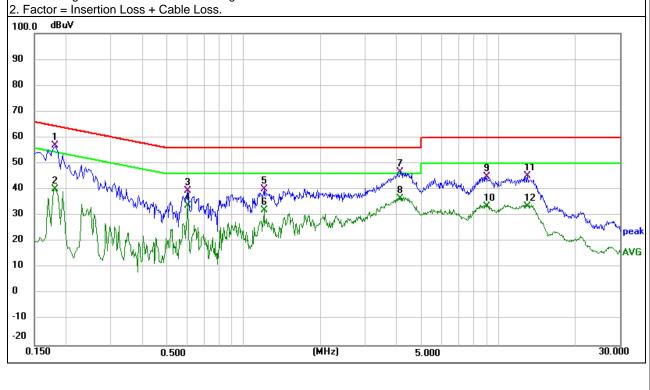




EUT:	Mobile Pho	one	Mo	odel Name. :	Venus	
Temperature	: 25.2 ℃		Re	elative Humidity:	47%	
Pressure:	Pressure: 1010hPa Test Date: 2025-03-21					
Test Mode: Mode 1			Ph	nase :	Ν	
Test Voltage: DC 5V from PC AC 120V/60Hz						
Frequency	Frequency Reading Level Correct Factor Measure-		Measure-m	ent Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	47.33	9.48	56.81	64.40	-7.59	QP
0.1819	30.78	9.48	40.26	54.40	-14.14	AVG
0.6020	29.41	10.17	39.58	56.00	-16.42	QP
0.6020	23.59	10.17	33.76	46.00	-12.24	AVG
1.2020	28.82	11.42	40.24	56.00	-15.76	QP
1.2020	20.60	11.42	32.02	46.00	-13.98	AVG
4.1220	37.63	9.25	46.88	56.00	-9.12	QP
4.1220	27.29	9.25	36.54	46.00	-9.46	AVG
8.9980	34.95	9.92	44.87	60.00	-15.13	QP
8.9980	23.65	9.92	33.57	50.00	-16.43	AVG
13.0020	34.73	10.66	45.39	60.00	-14.61	QP
13.0020	23.01	10.66	33.67	50.00	-16.33	AVG

Remark:

1. All readings are Quasi-Peak and Average values.





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

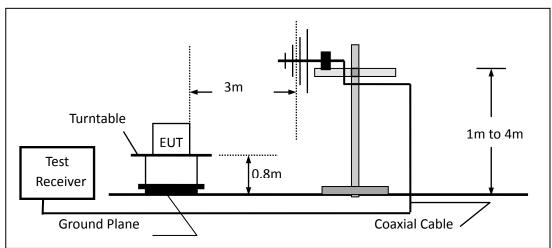


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

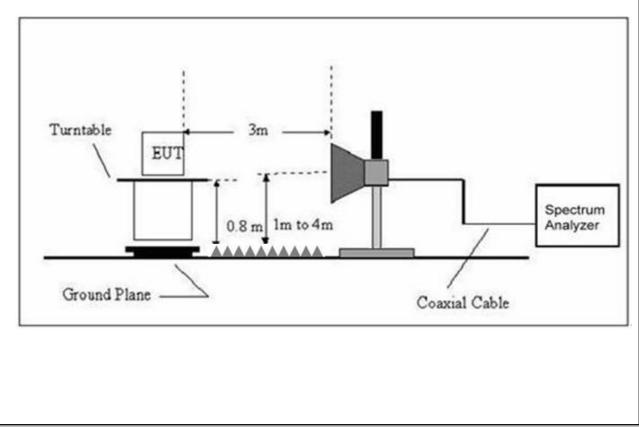
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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





3.2.4 TEST RESULTS

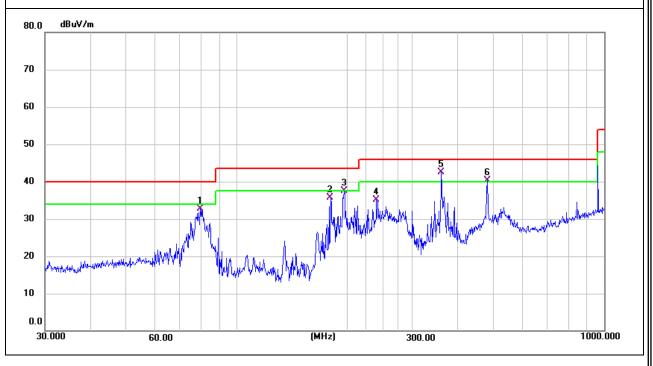
TEST RESULTS (30~1000 MHz)

EUT:	Mobile Phone	Model Name:	Venus
Temperature:	23.6 °C	Relative Humidity:	53%
Pressure:	1010 hPa	Test Date :	2025-03-19
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)	Remark
Н	79.5210	18.15	14.55	32.70	40.00	-7.30	QP
Н	180.0160	19.84	15.94	35.78	43.50	-7.72	QP
Н	195.8220	20.15	17.32	37.47	43.50	-6.03	QP
Н	239.9870	15.96	19.11	35.07	46.00	-10.93	QP
Н	360.4480	20.69	21.90	42.59	46.00	-3.41	QP
Н	480.5280	16.38	23.96	40.34	46.00	-5.66	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



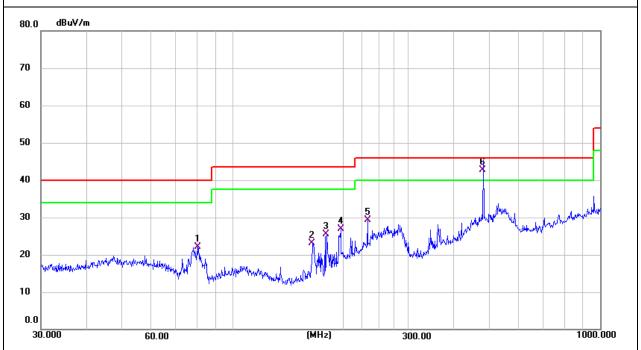


EUT:	Mobile Phone	Model Name :	Venus
Temperature:	23.6 ℃	Relative Humidity:	53%
Pressure:	1010 hPa	Test Date :	2025-03-19
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	80.3620	7.81	14.33	22.14	40.00	-17.86	QP
V	164.9070	7.85	15.20	23.05	43.50	-20.45	QP
V	180.0160	9.60	15.94	25.54	43.50	-17.96	QP
V	196.5100	9.51	17.41	26.92	43.50	-16.58	QP
V	232.5320	10.58	18.76	29.34	46.00	-16.66	QP
V	479.9930	18.84	23.93	42.77	46.00	-3.23	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~18000MHz)

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EUT:	Mobile Phone	Model Name :	Venus			
Temperature:	24.5 ℃	Relative Humidity:	55%			
Pressure:	1010 hPa	Test Date :	2025-03-20			
Test Mode :	Mode 3					
Test Power :	DC 5V from PC AC 120V/60Hz					
All the modulation modes have been tested, and the worst result was report as below:						

ACCREDITED

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

® Hac-MR

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
V	1051.000	47.71	-7.98	39.73	74.00	-34.27	peak
V	1051.000	34.34	-7.98	26.36	54.00	-27.64	AVG
V	2020.000	47.03	-6.18	40.85	74.00	-33.15	peak
V	2020.000	36.38	-6.18	30.20	54.00	-23.80	AVG
V	2428.000	55.28	-4.95	50.33	74.00	-23.67	peak
V	2428.000	36.45	-4.95	31.50	54.00	-22.50	AVG
V	5233.000	47.72	2.14	49.86	74.00	-24.14	peak
V	5233.000	31.16	2.14	33.30	54.00	-20.70	AVG
V	8395.000	48.44	6.96	55.40	74.00	-18.60	peak
V	8395.000	27.54	6.96	34.50	54.00	-19.50	AVG
V	11846.000	46.51	10.24	56.75	74.00	-17.25	peak
V	11846.000	31.28	10.24	41.52	54.00	-12.48	AVG
Н	1059.511	48.02	-7.99	40.03	74.00	-33.97	peak
Н	1059.511	36.19	-7.99	28.20	54.00	-25.80	AVG
Н	1327.446	46.47	-8.19	38.28	74.00	-35.72	peak
Н	1327.446	37.49	-8.19	29.30	54.00	-24.70	AVG
Н	2020.000	48.43	-6.18	42.25	74.00	-31.75	peak
Н	2020.000	36.28	-6.18	30.10	54.00	-23.90	AVG
Н	2428.000	48.46	-4.95	43.51	74.00	-30.49	peak
Н	2428.000	34.40	-4.95	29.45	54.00	-24.55	AVG
Н	3533.000	50.72	-2.15	48.57	74.00	-25.43	peak
Н	3533.000	33.17	-2.15	31.02	54.00	-22.98	AVG
Н	7460.000	48.13	7.07	55.20	74.00	-18.80	peak
Н	7460.000	31.89	7.07	38.96	54.00	-15.04	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