

FCC Test Report FCC ID: 2ARTX-Z4PLUS

Product: Mobile Phone Trade Mark: LAVA Model Number: Z4 PLUS Family Model: N/A Report No.: S23081500202001

Prepared for

LAVA International Limited A-56, Sector 64, Noida 201301, U.P. India

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website:http://www.ntek.org.cn



TEST RESULT CERTIFICATION

Applicant's name: LAVA International Limited
Address U.P. India A-56, Sector 64, Noida 201301, U.P. India
Manufacturer's Name: LAVA International Limited
Address A-154 D, Sector-63, Noida, Gautam Buddha Nagar, Uttar Pradesh, 201301
Product description
Test Sample Number: S230815002003
Product name: Mobile Phone
Model and/or type reference : Z4 PLUS
Family Model N/A
FCC Part15B 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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Date of Test	
Date (s) of performance of tests::	15 Aug. 2023 ~ 28 Aug. 2023
Date of Issue:	28 Aug. 2023
Test Result	Pass

2

Testing Engineer

Allen Liu)

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 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.



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 $y \pm U$, 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	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	±2.80dB	

B. Radiated Measurement :

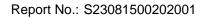
Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz~1000MHz	±2.64dB	
		1GHz~6GHz	±2.40dB	
		6GHz~26.5GHz	±2.52dB	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone			
Trade Mark	LAVA			
Model Name	Z4 PLUS			
Family Model	N/A			
Model Difference	N/A			
	Connecting I/O port:	Micro USB, Earphone		
Product Description	Operation Frequency: 2	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.			
	Model: HJ-0501500-US			
Adapter	Input: 100-240V~50/60Hz	0.3A		
	Output: 5.0V 1.5A 7.5W	1		
Battery	DC 3.75V/4000mAh			
Power supply	DC 3.75V from battery or DC 5V from Adapter.			
HW Version	LAVA_Z4_Plus_HW_V001			
SW Version	LAVA_Z4_Plus_TIGO_LATAN	V_V001		



2.1.1 DESCRIPTION OF TEST MODES

NTEK JL

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.

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

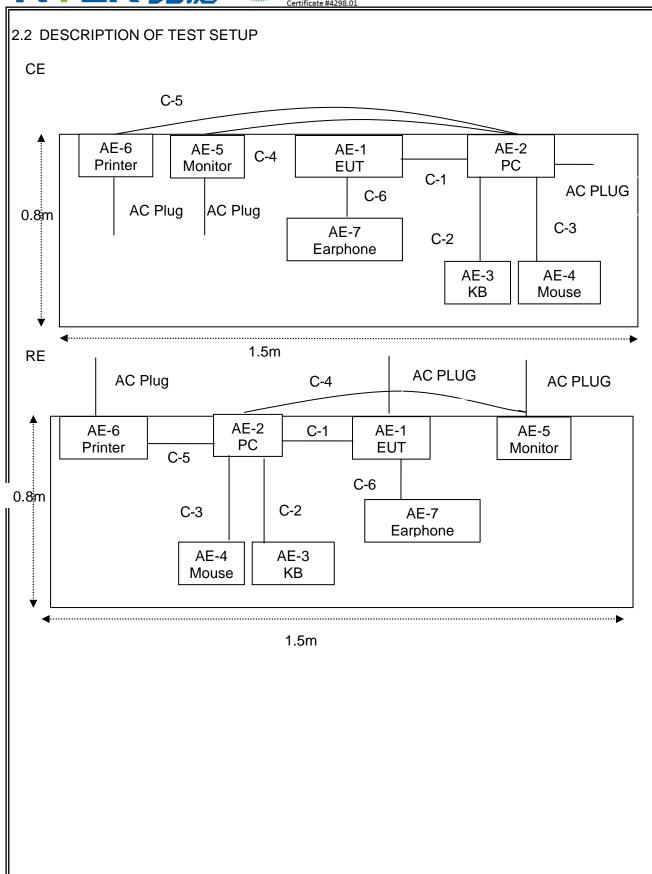
For Conducted Test			
Final Test Mode Description			
Mode 1	USB Data Transmission		
Mode 2	TF card Playing		
Mode 3	REC		
Mode 4	FM		
Mode 5	GPS		

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

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

Report No.: S23081500202001





NTEK JL Certificate #4298.01 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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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.

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Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	Mobile Phone	LAVA	Z4 PLUS	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	Printer	Canon	L11121E	N/A	Peripherals
AE-7	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	0.9m	
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	
C-6	Earphone Cable	NO	NO	1.2m	

Note:

The support equipment was authorized by Declaration of Confirmation. (1)

(2) For detachable type I/O cable should be specified the length in cm in ^CLength₂ column.

(3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".

2.4 MEASUREMENT INSTRUMENTS LIST

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Rad	iation Test eq	uipment									
Item		Manufactur	er Type No).	Serial No).	Last calibratio	n	Calibrate until	d	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407E	3	MY451080 0	04	2023.03.2	27	2024.03.2	26	1 year
2	Test Receive	er R&S	ESPI		101318		2023.03.2		2024.03.2	26	1 year
3	Bilog Antenr	na TESEQ	CBL6111	D	31216		2023.03.2	27	2024.03.2	26	1 year
4	50Ω Coaxia Switch	al Anritsu	MP59B	5	62002644 6	11	2023.03.2	27	2024.03.2	26	1 year
5	Spectrum Analyzer	ADVANTES			15090020)1	2023.03.2	27	2024.03.2	26	1 year
6	Horn Antenr		EM-AH-1 80	01	20110714	02	2023.03.2	27	2024.03.2	26	1 year
7	Horn Ant	Schwarzbeo	^{CK} BBHA 91	70	9170-18 ⁻	1	2023.03.2	27	2024.03.2	26	1 year
8	Amplifier	EMC	EMC0513 5SE	83	980246		2023.05.2	29	2024.05.2	28	1 year
9	Loop Antenr	na ARA	PLA-1030)/B	1029		2023.05.2	29	2024.05.2	28	1 year
10	Power Mete	er DARE	RPR3006	SW	15l00041 NO84	S	2022.11.08		8 2023.11.0		1 year
11	Power Sensor	R&S	URV4-Z	4	0395.161 05	9.	2023.03.2	27	2024.03.2	26	1 year
12	Test Cable (30MHz-1G z)		R-02		N/A		2023.05.0)6	2026.05.0)5	3 year
13	High Test Cable(1G-4 GHz)	0 N/A	R-03		N/A		2022.06.1	17	2025.06.1	16	3 year
14	High Test Cable(1G-4 GHz)	0 N/A	R-04		N/A		2023.05.0)6	2026.05.0)5	3 year
15	Test Receive	er R&S	ESCI		101160		2023.03.2	27	2024.03.2	26	1 year
10	Conduction T										
	Kind of	est equipment	– N				Last	С	alibrated	Ca	alibration
ltem	Equipment	Manufacturer	Type No.	2	Serial No.	C	alibration		until		period
	Test Receiver	R&S	ESCI		101160		023.03.27	20	024.03.26		1 year
2	LISN	R&S	ENV216		101313	20	023.03.27	20	024.03.26		1 year
3	LISN	SCHWARZBE CK	NNLK 8129	1	8129245	20	023.03.27 2		2024.03.26		1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	62	200983704	20	023.05.06	20	026.05.05		3 year
5	Test Cable (9KHz-30MH z)	N/A	C01		N/A	20	023.05.06	20	026.05.05		3 year
6	Test Cable (9KHz-30MH	N/A	C02		N/A	20	023.05.06	20	026.05.05		3 year

 z)
 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.

N/A

2023.05.06

2026.05.05

C03

7

z) Test Cable (9KHz-30MH

N/A

3 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	(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.

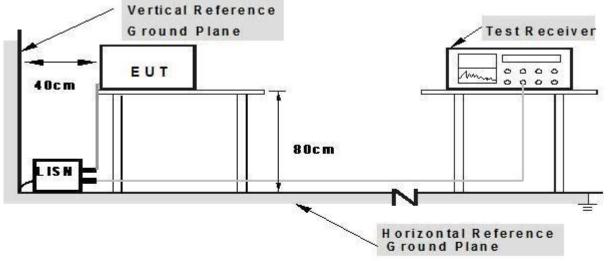
The following table is the setting of the receiver

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.



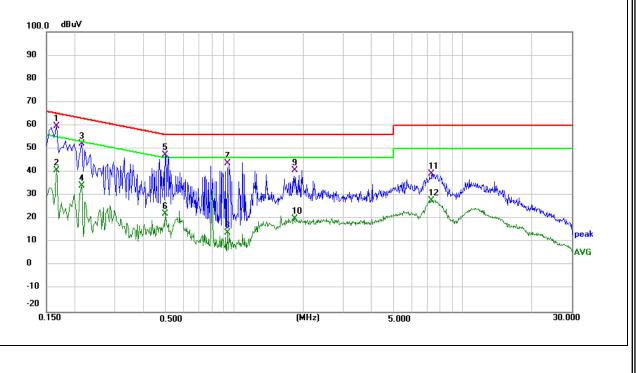
3.1.5 TEST RESULTS

EUT:	Mobile Pho	one	Mod	del Name. :	Z4 PLUS	
Temperature	: 24.5 ℃		Rela	Relative Humidity: 52%		
Pressure:	Pressure: 1010hPa Test Date: 2023-08-18					
Test Mode: Mode 1		Pha	se :	L		
Test Voltage: DC 5V from PC AC 120V/60Hz						
Frequency Reading Level Correct Factor Measure				nt Limits	Margin	Demente
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	49.66	9.97	59.63	65.16	-5.53	QP
0.1660	30.74	9.97	40.71	55.16	-14.45	AVG
0.2140	42.14	10.06	52.20	63.05	-10.85	QP
0.2140	24.02	10.06	34.08	53.05	-18.97	AVG
0.4980	36.67	10.65	47.32	56.03	-8.71	QP
0.4980	11.42	10.65	22.07	46.03	-23.96	AVG
0.9300	32.15	11.52	43.67	56.00	-12.33	QP
0.9300	2.66	11.52	14.18	46.00	-31.82	AVG
1.8300	27.40	13.32	40.72	56.00	-15.28	QP
1.8300	6.85	13.32	20.17	46.00	-25.83	AVG
7.2900	29.56	9.68	39.24	60.00	-20.76	QP
7.2900	18.12	9.68	27.80	50.00	-22.20	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



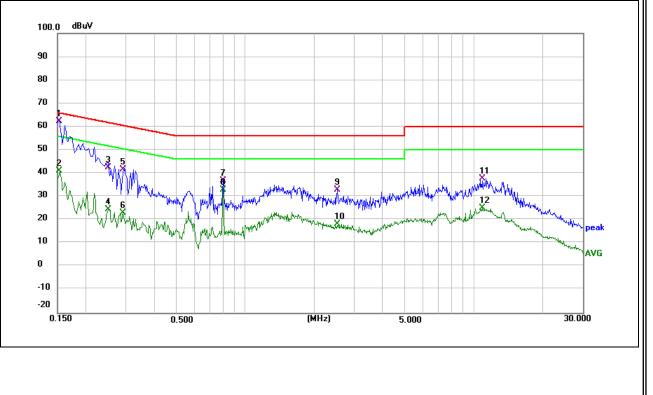


EUT:	Mobile Phone			odel Name. :	Z4 PLUS				
Temperature:	24.5 ℃		Re	lative Humidity:	52%	52%			
Pressure: 1010hPa			Tes	st Date:	2023-08-18	2023-08-18			
Test Mode: Mode 1		Ph	ase :	N					
Test Voltage:	DC 5V fro	m PC AC 120\	//60Hz						
Frequency Reading Level Correct Factor Measure			Measure-me	ent Limits	Margin	Dunid			
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark			
0.1539	52.49	9.93	62.42	65.79	-3.37	QP			
0.1539	31.17	9.93	41.10	55.79	-14.69	AVG			
0.2500	32.38	10.14	42.52	61.76	-19.24	QP			
0.2500	14.45	10.14	24.59	51.76	-27.17	AVG			
0.2909	31.50	10.22	41.72	60.50	-18.78	QP			
0.2909	12.91	10.22	23.13	50.50	-27.37	AVG			
0.7980	25.59	11.26	36.85	56.00	-19.15	QP			
0.7980	21.55	11.26	32.81	46.00	-13.19	AVG			
2.5300	23.44	9.66	33.10	56.00	-22.90	QP			
2.5300	8.62	9.66	18.28	46.00	-27.72	AVG			
10.8580	28.04	9.69	37.73	60.00	-22.27	QP			
10.8580	15.38	9.69	25.07	50.00	-24.93	AVG			

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





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

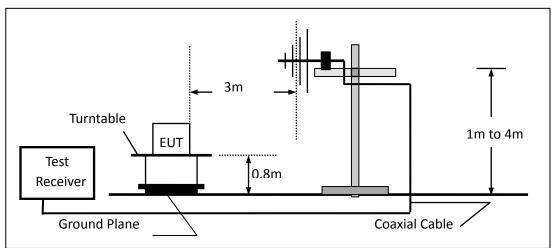


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

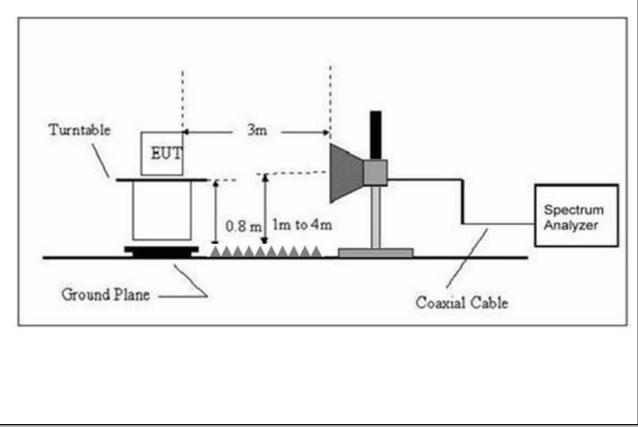
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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





3.2.4 TEST RESULTS

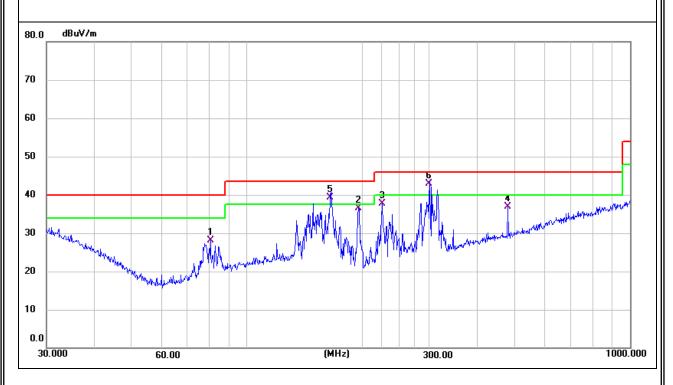
TEST RESULTS (30~1000 MHz)

EUT:	Mobile Phone	Model Name:	Z4 PLUS
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023-08-18
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)		
Н	80.3619	12.73	15.44	28.17	40.00	-11.83	QP	
Н	195.8220	20.16	16.39	36.55	43.50	-6.95	QP	
Н	226.0994	20.39	17.27	37.66	46.00	-8.34	QP	
Н	480.5276	12.29	24.65	36.94	46.00	-9.06	QP	
Н	165.0066	21.56	17.77	39.33	43.50	-4.17	QP	
Н	299.9972	22.79	20.20	42.99	46.00	-3.01	QP	

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





EUT:									
Τ	Mob	ile Ph	lone		Model Name	I Name : Z4 PLUS			
Tempera	ture: 24.5	°C			Relative Hur	midity: 559	%		
Pressure): 10 ¹⁰) hPa	1		Test Date : 2023-08-18				
Test Mod	de : Mod	e 1			Polarization	: Vei	rtical		
Test Pov	/er: DC 5	5V fro	om PC AC 1	20V/60Hz					
Polar	Frequenc	ÿ	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)		(dBuV)	(dB)	(dBuV/m)	(dBuV/m) (dB)		
V	84.4054	ŀ	9.21	15.98	25.19	40.00	-14.81	QP	
V	165.486		21.27	17.75	39.02	43.50	-4.48	QP	
V	194.453		15.35	16.39	31.74	43.50	-11.76	QP	
V	225.308		17.67	17.24	34.91	46.00	-11.09	QP	
V V	302.481 480.527		9.16 7.89	20.25 24.65	29.41 32.54	46.00 46.00	-16.59 -13.46	QP QP	
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50									
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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Mobile Phone	Model Name :	Z4 PLUS
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2023-08-18
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	1056.453	37.84	4.93	42.77	74.00	-31.23	peak
V	1056.453	25.08	4.93	30.01	54.00	-23.99	AVG
V	1378.273	36.53	5.36	41.89	74.00	-32.11	peak
V	1378.273	22.89	5.36	28.25	54.00	-25.75	AVG
V	2047.895	36.20	6.85	43.05	74.00	-30.95	peak
V	2047.895	19.71	6.85	26.56	54.00	-27.44	AVG
V	2710.622	35.49	8.53	44.02	74.00	-29.98	peak
V	2710.622	21.02	8.53	29.55	54.00	-24.45	AVG
V	3735.978	34.03	10.81	44.84	74.00	-29.16	peak
V	3735.978	19.44	10.81	30.25	54.00	-23.75	AVG
V	4842.000	33.15	13.67	46.82	74.00	-27.18	peak
V	4842.000	16.66	13.67	30.33	54.00	-23.67	AVG
Н	1175.697	37.67	5.21	42.88	74.00	-31.12	peak
Н	1175.697	24.12	5.21	29.33	54.00	-24.67	AVG
Н	1840.189	36.00	5.60	41.60	74.00	-32.40	peak
Н	1840.189	24.60	5.60	30.20	54.00	-23.80	AVG
Н	2298.892	35.05	7.40	42.45	74.00	-31.55	peak
Н	2298.892	23.85	7.40	31.25	54.00	-22.75	AVG
Н	2710.622	35.37	8.53	43.90	74.00	-30.10	peak
Н	2710.622	20.92	8.53	29.45	54.00	-24.55	AVG
Н	3735.978	34.80	10.81	45.61	74.00	-28.39	peak
Н	3735.978	21.21	10.81	32.02	54.00	-21.98	AVG
Н	5012.000	33.18	14.18	47.36	74.00	-26.64	peak
Н	5012.000	16.27	14.18	30.45	54.00	-23.55	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