FCC Test Report FCC ID: QRP-SP-029

Product: Mobile Phone

Trade Mark: AZUMI

Model Number: V60

Family Model: N/A

Report No.: \$22031002102001

Prepared for

Azumi S.A

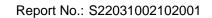
Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama

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

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TEST RESULT CERTIFICATION

Αı	oplicant's	name:	Azumi S.A
,	Spiioaiit o		/ \Zuiiii O./ \

Piso 16 of. 16-01, Marbella, Ciudad de Panama, Panama

Manufacturer's Name.....: AZUMI HK LTD

Address FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING

16-26 KWAI TAK STREET KWAI CHUNG, HK

Product description

Product name.....: Mobile Phone

Model and/or type reference : V60 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.

This report shall not be reproduced except in full, without the written approval of NTEK, this document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of the document.

Date of Test:

Date of Issue : Mar 28, 2022

Test Result:

Testing Engineer

Authorized Signatory:

(Alex Li)

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Report No.: S22031002102001

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.

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Report No.: S22031002102001

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:

Te	st Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NT	EKC01	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	Mobile Phone			
Trade Mark	AZUMI	AZUMI			
Model Name	V60				
Family Model	N/A				
Model Difference	N/A				
Product Description	Manual, the EUT is consi of EUT technical specific	, features, or specification exhibited in User's idered as an ITE/Computing Device. More details ation, please refer to the User's Manual.			
Adapter	INPUT: AC 100-240V~50-60Hz 0.2A OUTPUT: DC 5.0V===1A				
Battery	DC 3.8V, 3000mAh				
Power supply	DC 3.8V from battery or DC 5V from Adapter.				
HW Version	AZUMI_V60_HW_V001				
SW Version	AZUMI_V60_OM_LTM_V	V001			

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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.

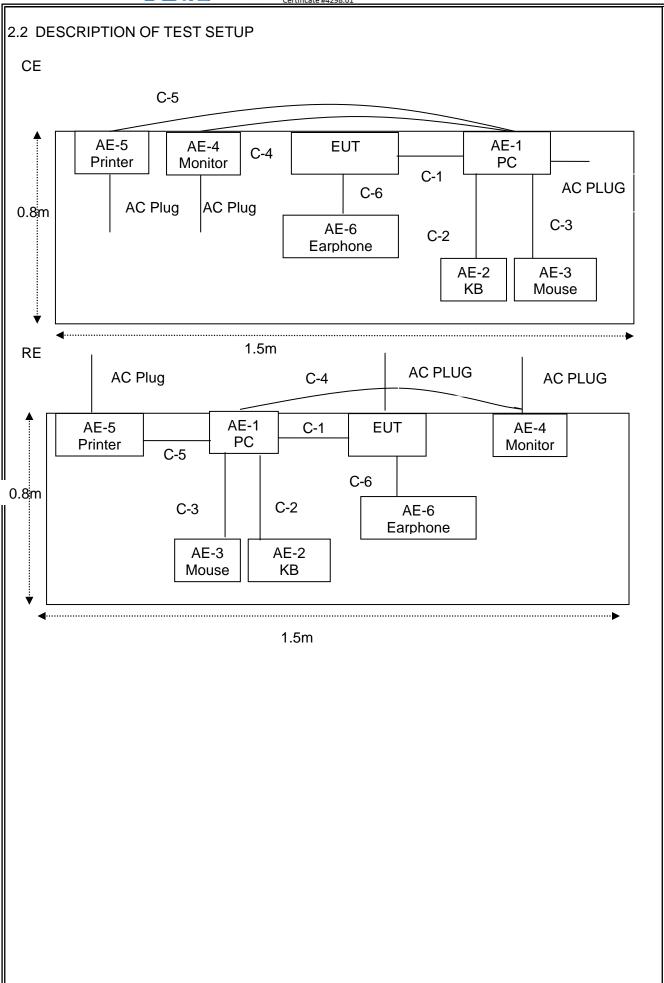
Pretest Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS

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.

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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
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	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	ОИ	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.
- "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	Agilent	E4407B	MY4510804 0	2021.04.27	2022.04.26	1 year
2	Test Receiver	R&S	ESPI	101318	2021.04.27	2022.04.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2021.04.27	2022.04.26	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2021.04.27	2022.04.26	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2021.03.29	2022.03.28	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.04.27	2022.04.26	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2021.04.27	2022.04.26	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2021.04.27	2022.04.26	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2021.04.27	2022.04.26	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2021.04.27	2022.04.26	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2019.06.28	2022.06.27	3 year
13	High Test Cable(1G-40 GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
14	High Test Cable(1G-40 GHz)	N/A	R-04	N/A	2019.06.28	2022.06.27	3 year
15	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year

AC Conduction Test equipment

Item	Vind of	Manufactu	Tuna Na	Serial No.	Loot	Calibrated	Calibratio
item	Kind of		Type No.	Serial No.	Last		
	Equipment	rer			calibration	until	n period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	620098370 4	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	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 (MHz)	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			

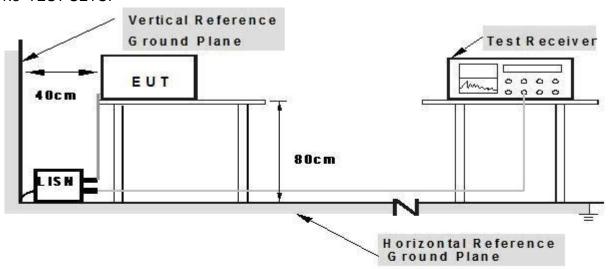
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3.1.2 TEST PROCEDURE

- 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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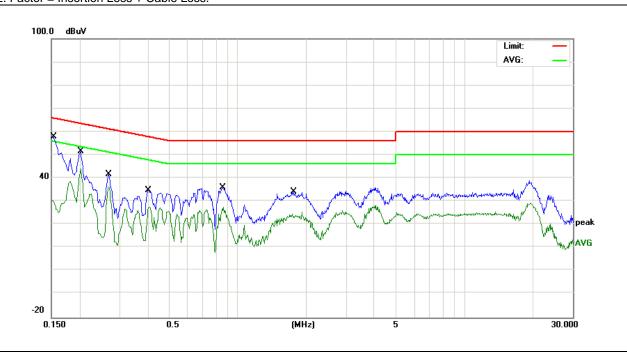
3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name.:	V60
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-03-21
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	48.10	9.72	57.82	65.78	-7.96	QP
0.1539	26.46	9.72	36.18	55.78	-19.60	AVG
0.2020	42.00	9.63	51.63	63.52	-11.89	QP
0.2020	34.45	9.63	44.08	53.52	-9.44	AVG
0.2700	31.98	9.63	41.61	61.12	-19.51	QP
0.2700	21.70	9.63	31.33	51.12	-19.79	AVG
0.4020	25.21	9.64	34.85	57.81	-22.96	QP
0.4020	14.94	9.64	24.58	47.81	-23.23	AVG
0.8540	26.07	9.74	35.81	56.00	-20.19	QP
0.8540	17.74	9.74	27.48	46.00	-18.52	AVG
1.7620	24.26	9.76	34.02	56.00	-21.98	QP
1.7620	15.11	9.76	24.87	46.00	-21.13	AVG

Remark:

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



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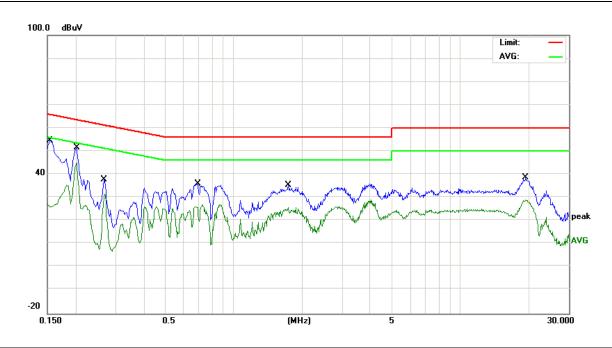


EUT:	Mobile Phone	Model Name. :	V60
Temperature:	24.5 ℃	Relative Humidity:	52%
Pressure:	1010hPa	Test Date:	2022-03-21
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	44.99	9.63	54.62	65.78	-11.16	QP
0.1539	17.26	9.63	26.89	55.78	-28.89	AVG
0.2020	41.87	9.63	51.50	63.52	-12.02	QP
0.2020	35.39	9.63	45.02	53.52	-8.50	AVG
0.2660	28.09	9.65	37.74	61.24	-23.50	QP
0.2660	17.57	9.65	27.22	51.24	-24.02	AVG
0.6900	26.19	9.64	35.83	56.00	-20.17	QP
0.6900	15.72	9.64	25.36	46.00	-20.64	AVG
1.7380	25.52	9.69	35.21	56.00	-20.79	QP
1.7380	16.00	9.69	25.69	46.00	-20.31	AVG
19.3580	28.76	9.75	38.51	60.00	-21.49	QP
19.3580	19.25	9.75	29.00	50.00	-21.00	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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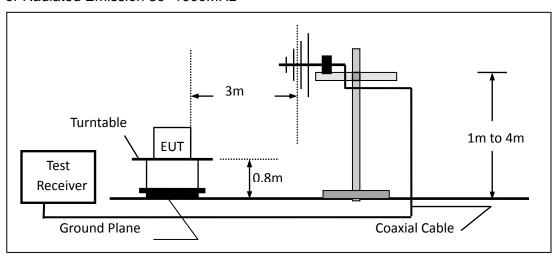


During the radiated emission test, according to ANSI C63.4-2014(4.2), the Spectrum Analyzer was set with the following configurations:

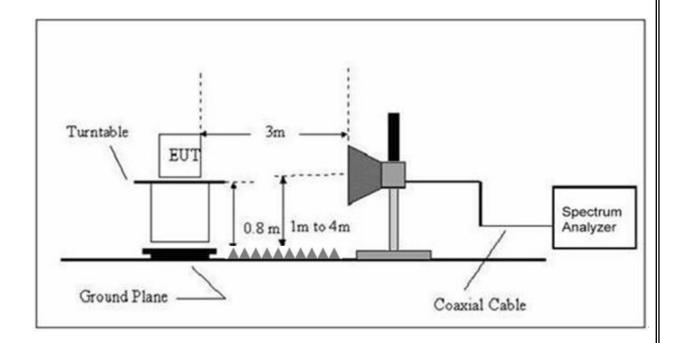
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

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

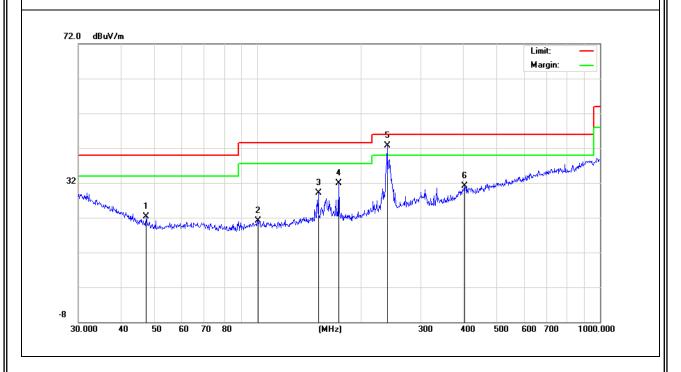
TEST RESULTS (30~1000 MHz)

	(00 1000 1111 12)		
EUT:	Mobile Phone	Model Name:	V60
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-03-21
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)	roman
Н	47.3255	6.88	15.41	22.29	40.00	-17.71	QP
Н	100.5806	5.86	15.30	21.16	43.50	-22.34	QP
Н	150.5378	12.47	16.71	29.18	43.50	-14.32	QP
Н	172.5988	15.10	16.72	31.82	43.50	-11.68	QP
Н	239.1473	23.85	18.90	42.75	46.00	-3.25	QP
Н	401.8385	6.31	24.80	31.11	46.00	-14.89	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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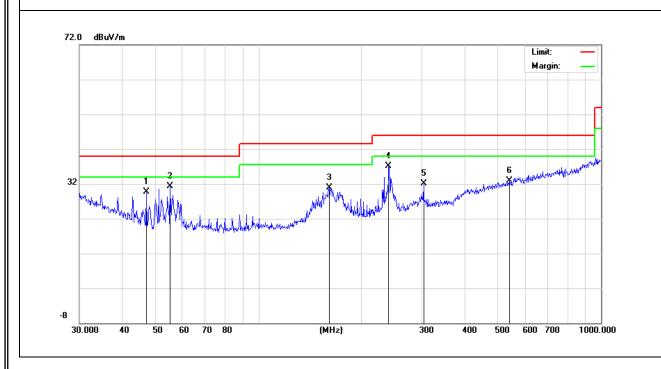


EUT:	Mobile Phone	Model Name :	V60
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-03-21
Test Mode:	Mode 1	Polarization:	Vertical
Test Power:	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	46.9948	14.16	15.54	29.70	40.00	-10.30	QP
V	55.2207	17.00	14.35	31.35	40.00	-8.65	QP
V	160.9089	13.79	17.05	30.84	43.50	-12.66	QP
V	239.9874	18.22	18.94	37.16	46.00	-8.84	QP
V	303.5437	11.79	20.40	32.19	46.00	-13.81	QP
V	541.3725	6.24	26.60	32.84	46.00	-13.16	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Mobile Phone	Model Name :	V60
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2022-03-21
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 (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	rtomark
V	1170.000	41.33	-0.42	40.91	74.00	-33.09	peak
V	1170.000	30.53	-0.42	30.11	54.00	-23.89	AVG
V	1595.000	39.56	0.50	40.06	74.00	-33.94	peak
V	1595.000	29.76	0.50	30.26	54.00	-23.74	AVG
V	2089.751	39.30	0.59	39.89	74.00	-34.11	peak
V	2089.751	28.66	0.59	29.25	54.00	-24.75	AVG
V	2615.000	39.33	1.56	40.89	74.00	-33.11	peak
V	2615.000	28.59	1.56	30.15	54.00	-23.85	AVG
V	2785.000	39.44	1.78	41.22	74.00	-32.78	peak
V	2785.000	29.25	1.78	31.03	54.00	-22.97	AVG
V	4272.500	37.16	4.44	41.60	74.00	-32.40	peak
V	4272.500	26.78	4.44	31.22	54.00	-22.78	AVG
Н	1425.000	40.08	0.39	40.47	74.00	-33.53	peak
Н	1425.000	29.63	0.39	30.02	54.00	-23.98	AVG
Н	1807.500	39.23	0.51	39.74	74.00	-34.26	peak
Н	1807.500	28.71	0.51	29.22	54.00	-24.78	AVG
Н	2147.500	39.07	0.70	39.77	74.00	-34.23	peak
Н	2147.500	28.82	0.70	29.52	54.00	-24.48	AVG
Н	2955.000	39.08	2.46	41.54	74.00	-32.46	peak
Н	2955.000	28.77	2.46	31.23	54.00	-22.77	AVG
Н	4230.000	37.70	4.30	42.00	74.00	-32.00	peak
Н	4230.000	28.06	4.30	32.36	54.00	-21.64	AVG
Н	5037.500	36.17	5.41	41.58	74.00	-32.42	peak
Н	5037.500	25.84	5.41	31.25	54.00	-22.75	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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