





FCC Test Report FCC ID: QRP-SP-022

Product: Mobile Phone

Trade Mark: AZUMI

Model Number: V55

Family Model: N/A

Report No.: S20111601501006

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

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Applicant's name..... Azumi S.A



Report No.: S20111601501006

TEST RESULT CERTIFICATION

Address:	Avenida A Piso 16 of	Aquilino de la Guardia f. 16-01, Marbella, (a con Calle 47, PH Ocean Plaza, Ciudad de Panama, Panama
Manufacturer's Name:	AZUMI HI	K LTD	
Address:	FLAT/RM 16-26 KW	18 BLK 1 14/F GOLI /AI TAK STREET KW	DEN INDUSTRIAL BUILDING 'AI CHUNG,HK
Product description			
Product name:	Mobile Ph	none	
Model and/or type reference :	V55		
Family Model:	N/A		
Standards:	FCC Part ANSI C63	15B 3.4:2014	
This device described above hat equipment under test (EUT) is it to the tested sample identified in	n compliar	nce with Part 15 of F0	e test results show that the CC Rules. And it is applicable only
This report shall not be reproduct document may be altered or revort the document.	•		ritten approval of NTEK, this and shall be noted in the revision
Date of Test	:		
Date (s) of performance of tests.	:	16 Nov. 2020 ~01 De	c, 2020
Date of Issue	:	02 Dec, 2020	
Test Result	:	Pass	
Testing Engine	eer :	Bulen	lvin
		(Allen	Liu)
Technical Man	ager :	Jason	Chen
		(Jason 0	Chen)
Authorized Sig	natory:	At	les
	-	(Alex	 Li)

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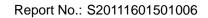






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1. TEST SUMMARY

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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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	

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone			
Trade Mark	AZUMI			
Model Name	V55			
Family Model	N/A			
Model Difference	N/A			
	The EUT is a Mobile Phone.			
Product Description	Connecting I/O port:	Micro USB, Earphone		
Froduct Description	Operation Frequency:	1.3GHz		
	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.			
Power Source	DC 3.8V/2500mAh from battery or DC 5V from Adapter.			
Adapter	Input: 100-240V~50-60Hz 0.2A Output: 5.0V——1A			
HW Version	AZUMI_V55_OM_LATAM_V001			
SW Version	AZUMI_V55_HW _V1.0			

ACCREDITED

Certificate #4298.01

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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				

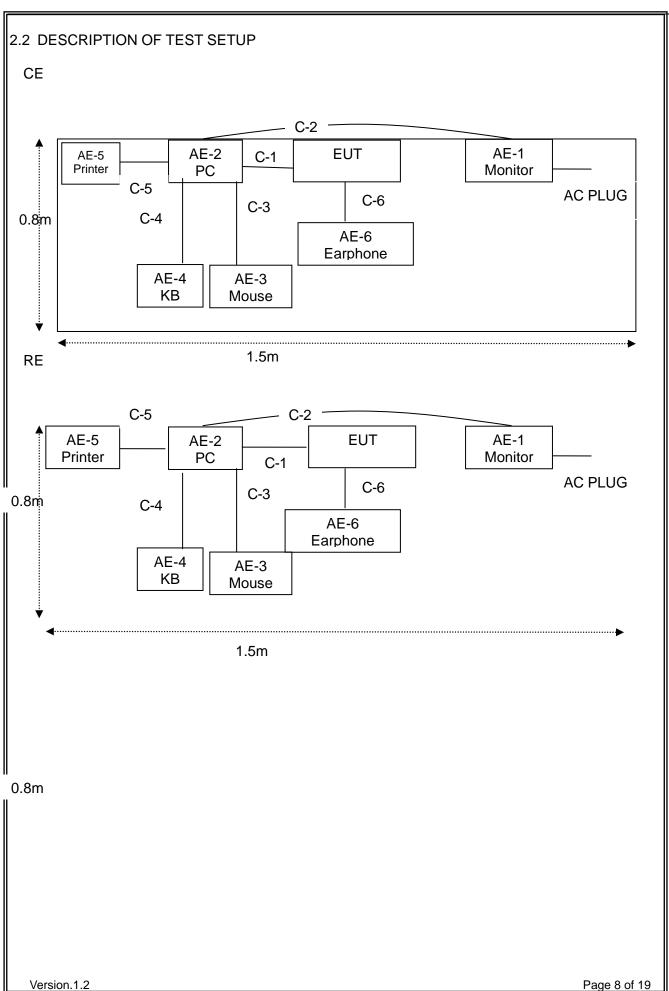
For Radiated Test				
Final Test Mode	Description			
Mode 1	USB Data Transmission			
Mode 2	TF card Playing			
Mode 3	REC			
Mode 4	FM			
Mode 5	GPS			

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	Monitor	DELL	IN2020MB	N/A	Peripherals
AE-2	PC	DELL	FT4Y23X	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	KB	N/A	N/A	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	HDMI Cable	YES	YES	1.0m	
C-2	USB Cable	NO	NO	1.2m	
C-3	USB Cable	NO	NO	1.2m	
C-4	USB Cable	NO	NO	1.2m	
C-5	USB Cable	NO	ОИ	1.2m	
C-6	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 <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	Agilent	E4407B	MY4510804 0	2020.05.11	2021.05.10	1 year
2	Test Receiver	R&S	ESPI	101318	2020.05.11	2021.05.10	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2020.05.11	2021.05.10	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2020.05.11	2021.05.10	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2020.04.11	2021.04.10	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2020.05.11	2021.05.10	1 year
8	Amplifier	EMC	EMC05183 5SE	980246	2020.07.13	2021.07.12	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2020.05.11	2021.05.10	1 year
10	Power Meter	DARE	RPR3006W	15I00041S NO84	2020.07.13	2021.07.12	1 year
11	Power Sensor	R&S	URV4-Z4	0395.1619. 05	2020.05.11	2021.05.10	1 year
12	Test Cable (30MHz-1GH z)	N/A	R-02	N/A	2020.07.13	2021.07.12	1 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	2020.04.11	2021.04.10	1 year

AC Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.04.11	2021.04.10	1 year
3	LISN	SCHWAR ZBECK	NNLK 8129	8129245	2020.05.11	2021.05.10	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	2021.05.10	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)

EDECLIENCY (ML)-)	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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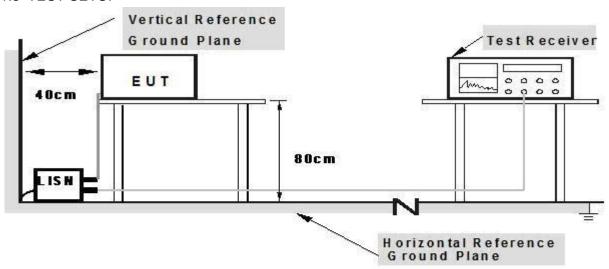




3.1.2 TEST PROCEDURE

- 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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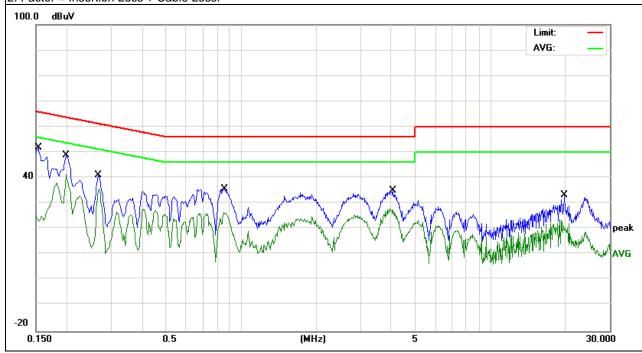
3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name. :	V55
EUI.	Mobile Phone	Model Name	V 3 3
Temperature:	25 ℃	Relative Humidity:	62%
Pressure:	1010hPa	Test Date:	2020-11-25
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	42.16	9.56	51.72	65.78	-14.06	QP
0.1539	32.46	9.56	42.02	55.78	-13.76	AVG
0.1980	39.32	9.55	48.87	63.69	-14.82	QP
0.1980	31.79	9.55	41.34	53.69	-12.35	AVG
0.2660	31.42	9.54	40.96	61.24	-20.28	QP
0.2660	20.78	9.54	30.32	51.24	-20.92	AVG
0.8540	26.19	9.55	35.74	56.00	-20.26	QP
0.8540	17.04	9.55	26.59	46.00	-19.41	AVG
4.0540	25.52	9.60	35.12	56.00	-20.88	QP
4.0540	18.35	9.60	27.95	46.00	-18.05	AVG
19.8060	23.32	9.93	33.25	60.00	-26.75	QP
19.8060	13.85	9.93	23.78	50.00	-26.22	AVG

Remark:

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



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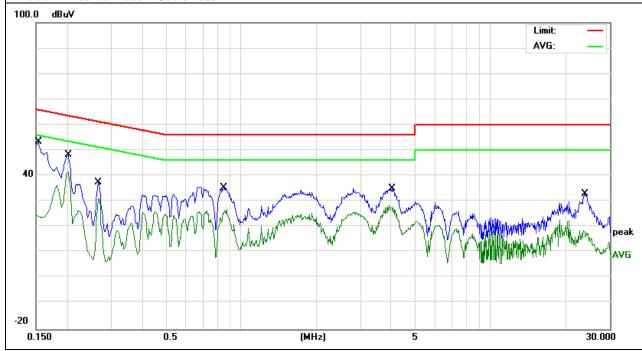


EUT:	Mobile Phone	Model Name.:	V55
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2020-11-25
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC 120V/60Hz		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	43.67	9.55	53.22	65.78	-12.56	QP
0.1539	33.70	9.55	43.25	55.78	-12.53	AVG
0.2020	38.73	9.54	48.27	63.52	-15.25	QP
0.2020	32.11	9.54	41.65	53.52	-11.87	AVG
0.2660	27.82	9.53	37.35	61.24	-23.89	QP
0.2660	18.49	9.53	28.02	51.24	-23.22	AVG
0.8500	25.88	9.54	35.42	56.00	-20.58	QP
0.8500	17.32	9.54	26.86	46.00	-19.14	AVG
4.0100	25.33	9.59	34.92	56.00	-21.08	AVG
4.0100	18.72	9.59	28.31	46.00	-17.69	QP
23.9700	23.04	9.91	32.95	60.00	-27.05	QP
23.9700	12.81	9.91	22.72	50.00	-27.28	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 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 Version.1.2 Page 15 of 19





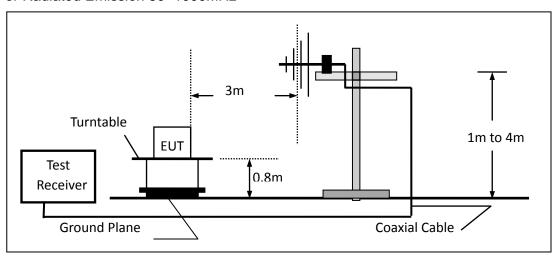
worst case is recorded in the report

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

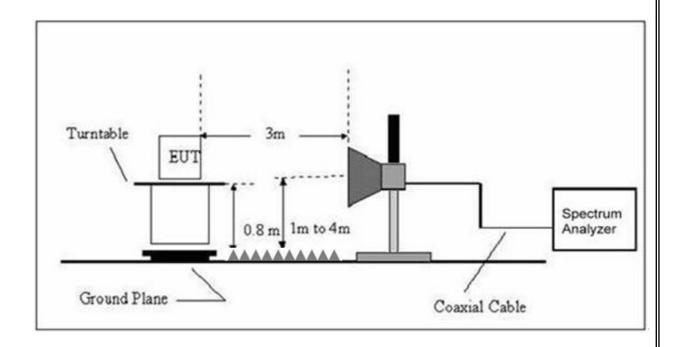
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
	Peak	1 MHz	3 MHz
Above 1000	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



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3.2.4 TEST RESULTS

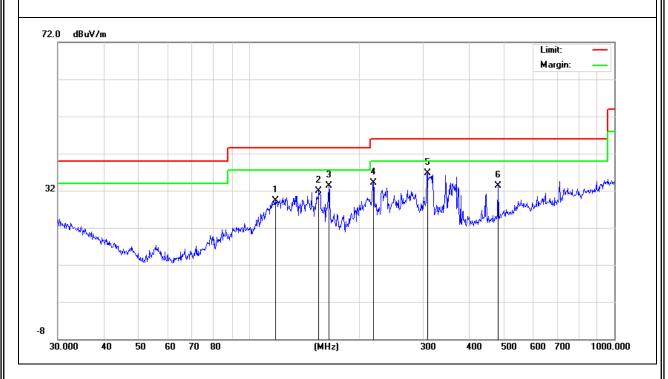
TEST RESULTS (30~1000 MHz)

	1		
EUT:	Mobile Phone	Model Name:	V55
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2020-11-25
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	118.1861	16.93	12.43	29.36	43.50	-14.14	QP
Н	155.3643	20.31	11.61	31.92	43.50	-11.58	QP
Н	165.4866	22.63	10.63	33.26	43.50	-10.24	QP
Н	219.0753	23.30	10.76	34.06	46.00	-11.94	QP
Н	307.8313	21.38	15.30	36.68	46.00	-9.32	QP
Н	480.5276	13.89	19.51	33.40	46.00	-12.60	QP

Remark[.]

Factor = Antenna Factor + Cable Loss - Amplifier.



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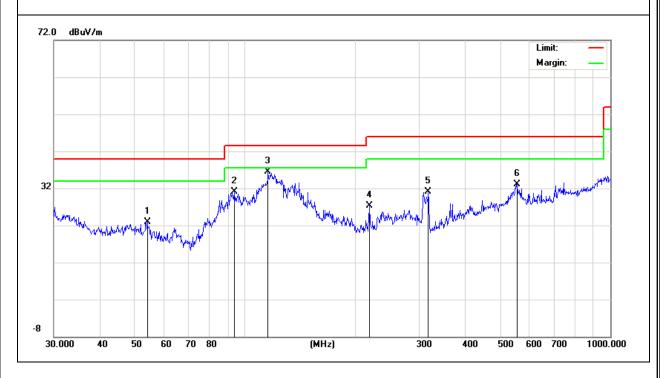


EUT:	Mobile Phone	Model Name :	V55
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2020-11-25
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	. tolark
V	54.0711	15.79	7.14	22.93	40.00	-17.07	QP
V	93.7685	20.72	10.41	31.13	43.50	-12.37	QP
V	115.7256	24.06	12.42	36.48	43.50	-7.02	QP
V	219.0753	16.50	10.76	27.26	46.00	-18.74	QP
V	317.7011	16.04	15.16	31.20	46.00	-14.80	QP
V	556.7744	10.61	22.44	33.05	46.00	-12.95	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



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3.2.5 TEST RESULTS(1000~18000MHz)

EUT:	Mobile Phone	Model Name :	V55		
Temperature:	24 °C	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2020-11-25		
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)	
V	1170	41.55	1.67	43.22	74	-30.78	peak
V	1170	32.03	1.67	33.7	54	-20.3	AVG
V	1722.5	40.92	3.52	44.44	74	-29.56	peak
V	1722.5	31.73	3.52	35.25	54	-18.75	AVG
V	2147.5	39.21	5.93	45.14	74	-28.86	peak
V	2147.5	29.19	5.93	35.12	54	-18.88	AVG
V	2572.5	38.54	5.19	43.73	74	-30.27	peak
V	2572.5	28.46	5.19	33.65	54	-20.35	AVG
V	2955	38.63	6.24	44.87	74	-29.13	peak
V	2955	27.91	6.24	34.15	54	-19.85	AVG
V	4272.5	37.63	11.74	49.37	74	-24.63	peak
V	4272.5	27.48	11.74	39.22	54	-14.78	AVG
Н	1278.492	40.55	2.15	42.70	74.00	-31.3	peak
Н	1278.492	29.85	2.15	32.00	54.00	-22	AVG
Н	1622.774	39.04	3.05	42.09	74.00	-31.91	peak
Н	1622.774	29.20	3.05	32.25	54.00	-21.75	AVG
Н	2105.000	38.34	6.29	44.63	74.00	-29.37	peak
Н	2105.000	29.36	6.29	35.65	54.00	-18.35	AVG
Н	2402.500	39.12	4.54	43.66	74.00	-30.34	peak
Н	2402.500	29.04	4.54	33.58	54.00	-20.42	AVG
Н	2785.000	39.27	5.96	45.23	74.00	-28.77	peak
Н	2785.000	29.73	5.96	35.69	54.00	-18.31	AVG
Н	3847.500	36.67	10.36	47.03	74.00	-26.97	peak
Н	3847.500	27.79	10.36	38.15	54.00	-15.85	AVG

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit Note: Only the worst results data points are reported in the report.

END OF REPORT

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