

# RADIO TEST REPORT FCC ID: QRP-SP-023

Product:	Mobile Phone
Trade Mark:	AZUMI
Model No.:	V60
Family Model:	N/A
Report No.:	S21020301002002
Issue Date:	27 Mar. 2021

# **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 518126 P.R. China Tel:400-800-6106,0755-2320 0050 / 2320 0090 Website: http://www.ntek.org.cn





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## **1 TEST RESULT CERTIFICATION**

Applicant's name:	Azumi S.A
Address:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, 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

Measurement Procedure Used:

#### APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J	
FCC 47 CFR Part 15, Subpart C	Complied
ANSI C63.10-2013	Complied
KDB 558074 D01 15.247 Meas Guidance v05r02	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	03 Feb. 2021 ~ 27 Mar. 2021	
Testing Engineer	:	Krang. Hu	
Technical Manager		(Mary Hu)	
rechnical Manager	•	(Jason Chen)	
Authorized Signatory	:	Alex	
		(Alex Li)	



FCC Part15 (15.247), Subpart C			
Standard Section Test Item Verdict Rema			Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

2. All test items were verified and recorded according to the standards and without any deviation during the test.



## **3 FACILITIES AND ACCREDITATIONS**

#### 3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab. :	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
-	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location :	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

#### 3.3 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 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%



## 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Mobile Phone	
Trade Mark	AZUMI	
FCC ID	QRP-SP-023	
Model No.	V60	
Family Model	N/A	
Model Difference	N/A	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK	
Number of Channels	40 Channels	
Antenna Type	PIFA Antenna	
Antenna Gain	1.1 dBi	
Power supply	DC 3.8V/3000mAh from battery or DC 5V from Adapter	
Adapter	Input: 100-240V~50-60Hz 0.2A Output: 5.0V1A	
HW Version	AZUMI_V60_HW_V001	
SW Version	AZUMI_V60_OM_LTM_V001_20210301-NV	

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Note 1: 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.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



		evision History	321020301002002
Report No.	Version	Description	Issued Date
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## 5 DESCRIPTION OF TEST MODES

NTEK II:测

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.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)	
0	2402	
1	2404	
19	2440	
20	2442	
38	2478	
39	2480	

Note: fc=2402MHz+k×2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases			
Test Item	Data Rate/ Modulation		
AC Conducted Emission	Mode 1: normal link mode		
	Mode 1: normal link mode		
Radiated Test	Mode 2: Tx Ch00_2402MHz_1Mbps		
Cases	Mode 3: Tx Ch19_2440MHz_1Mbps		
	Mode 4: Tx Ch39_2480MHz_1Mbps		
O an durate d Te at	Mode 2: Tx Ch00_2402MHz_1Mbps		
Conducted Test Cases	Mode 3: Tx Ch19_2440MHz_1Mbps		
Cases	Mode 4: Tx Ch39_2480MHz_1Mbps		

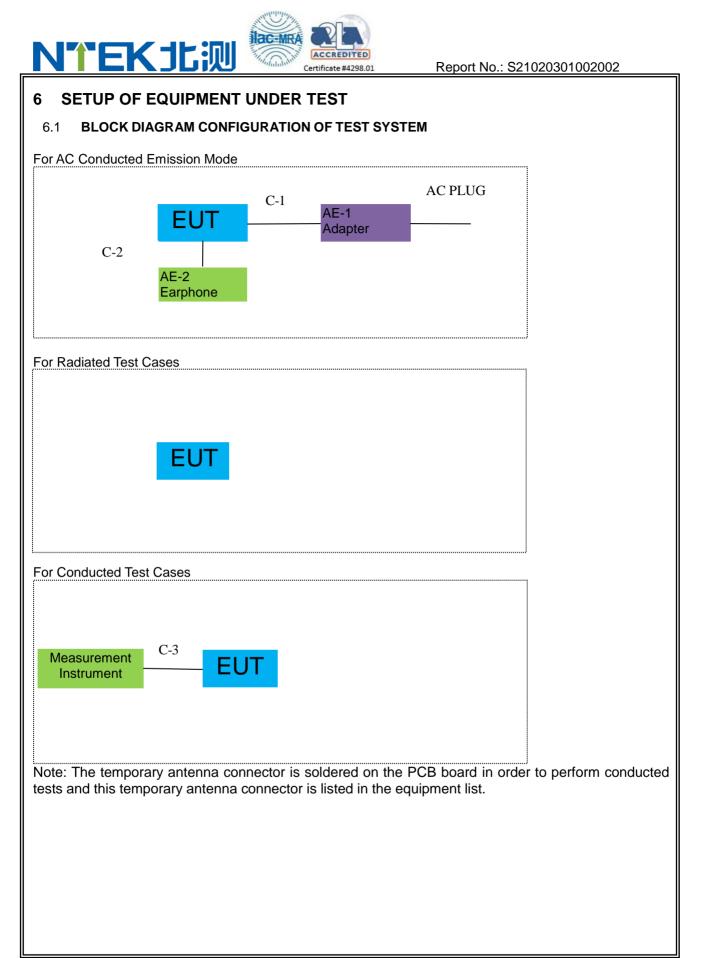
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

4. EUT built-in battery-powered, the battery is fully-charged.





#### 6.2 SUPPORT EQUIPMENT

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	Adapter	N/A	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	Earphone Cable	NO	NO	1.2m
C-3	RF Cable	YES	NO	0.1m

#### Notes:

- (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" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



#### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

#### Radiation& Conducted Test equipment

		estequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.07.13	2021.07.12	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CV6011D	31216	2020.04.11	2021.04.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2020.04.11	2021.04.10	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.12.10	2021.12.09	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.12.10	2021.12.09	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13	2021.07.12	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.6	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.6	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.04.11	2021.04.10	1 year
16	Filter	TRILTHIC	2400MHz	29	2020.07.13	2021.07.12	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Conduction Test equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration 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	SCHWARZBE CK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	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 Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



## 7 TEST REQUIREMENTS

#### 7.1 CONDUCTED EMISSIONS TEST

#### 7.1.1 Applicable Standard

According to FCC Part 15.207(a)

#### 7.1.2 Conformance Limit

	Conducted	d Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

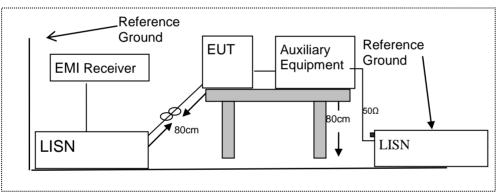
Note: 1. \*Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
  - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.1.4 Test Configuration



#### 7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT 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.
- 4. 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 40cm long.
- 5. 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



#### 7.1.6 Test Results

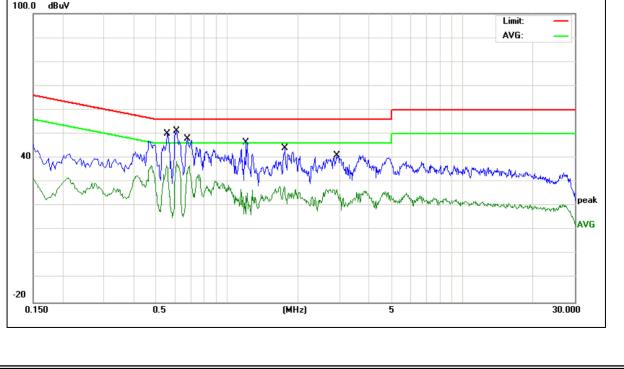
EUT:	Mobile Phone	Model Name :	V60
Temperature:	<b>24.5</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Phase :	L
	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5580	40.51	9.55	50.06	56.00	-5.94	QP
0.5580	27.34	9.55	36.89	46.00	-9.11	AVG
0.6100	41.76	9.55	51.31	56.00	-4.69	QP
0.6100	28.99	9.55	38.54	46.00	-7.46	AVG
0.6820	38.54	9.55	48.09	56.00	-7.91	QP
0.6820	27.27	9.55	36.82	46.00	-9.18	AVG
1.2059	37.03	9.56	46.59	56.00	-9.41	QP
1.2059	17.20	9.56	26.76	46.00	-19.24	AVG
1.7660	34.47	9.58	44.05	56.00	-11.95	QP
1.7660	18.71	9.58	28.29	46.00	-17.71	AVG
2.9300	31.31	9.60	40.91	56.00	-15.09	QP
2.9300	17.39	9.60	26.99	46.00	-19.01	AVG

Remark:

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





Version.1.3



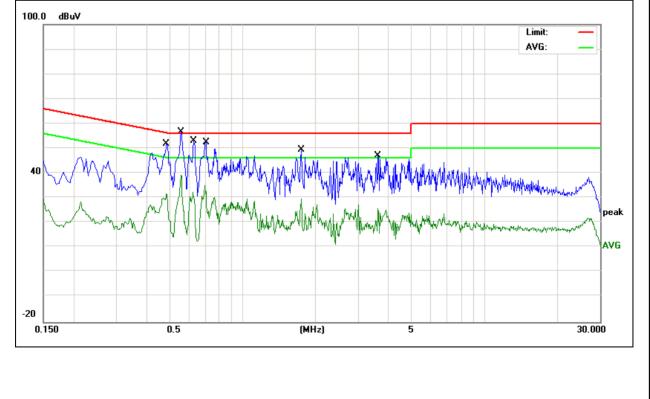
EUT:	Mobile Phone	Model Name :	V60
Temperature:	<b>24.5</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demorile
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4860	42.33	9.54	51.87	56.24	-4.37	QP
0.4860	22.27	9.54	31.81	46.24	-14.43	AVG
0.5580	43.36	9.54	52.90	56.00	-3.10	QP
0.5580	29.83	9.54	39.37	46.00	-6.63	AVG
0.6260	22.95	9.54	32.49	46.00	-13.51	AVG
0.6300	43.43	9.54	52.97	56.00	-3.03	QP
0.6980	25.52	9.54	35.06	46.00	-10.94	AVG
0.7060	42.88	9.54	52.42	56.00	-3.58	QP
1.7460	39.82	9.57	49.39	56.00	-6.61	QP
1.7460	20.21	9.57	29.78	46.00	-16.22	AVG
3.6340	37.60	9.59	47.19	56.00	-8.81	QP
3.6340	16.27	9.59	25.86	46.00	-20.14	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





#### 7.2 RADIATED SPURIOUS EMISSION

#### 7.2.1 Applicable Standard

#### According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

#### 7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to Foo Fait 15.205, Restricted bands				
MHz	MHz	MHz	GHz	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3600-4400	(2)	
13.36-13.41				

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Eroquopov(MHz)	Class B (dBuV/m) (at 3M)		
Frequency(MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.



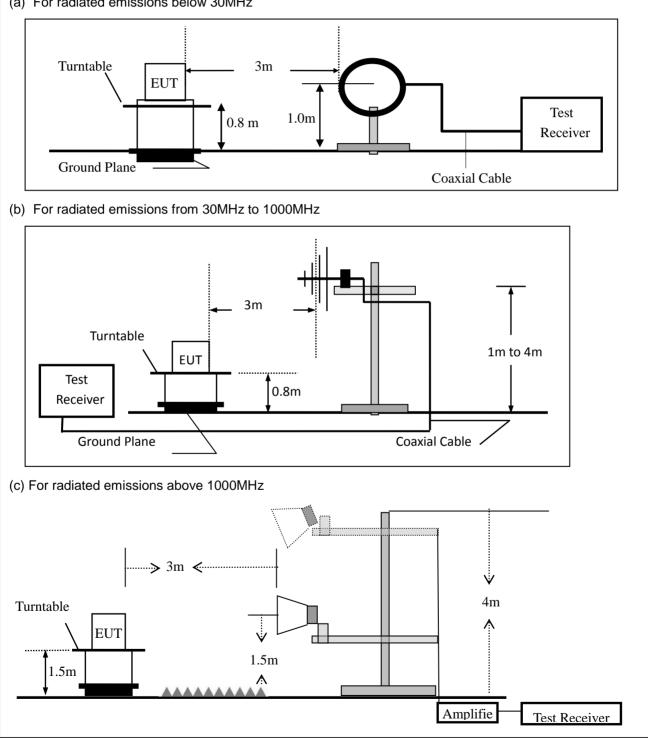
#### 7.2.3 **Measuring Instruments**

N

The Measuring equipment is listed in the section 6.3 of this test report.

#### **Test Configuration** 7.2.4

#### (a) For radiated emissions below 30MHz





#### 7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

<u></u>						
Spectrum Parameter	Setting					
Attenuation	Auto					
Start Frequency	1000 MHz					
Stop Frequency	10th carrier harmonic					
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average					

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission to	During the radiated emission test, 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							
Above 1000	Peak		1 MHz							
Above 1000	Average	1 MHz	1 MHz							

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10\*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

#### 7.2.6 Test Results

Spurious Er	Spurious Emission below 30MHz (9KHz to 30MHz)									
EUT:	Mobile Pho	one	Model No.:		V60					
Temperature:	<b>20</b> ℃		Relative Hu	umidity:	48%					
Test Mode:	Mode1/Mo Mode4	Mode1/Mode2/Mode3/ Mode4			Mary Hu					
Freq	Ant Pol	Emission Leve	(dBuV/m)	Limit 3m	n(dBuV/m)	Over(dB)				

(MHz)	H/V	PK	AV	PK	AV	PK	AV	
Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)		

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz) 

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

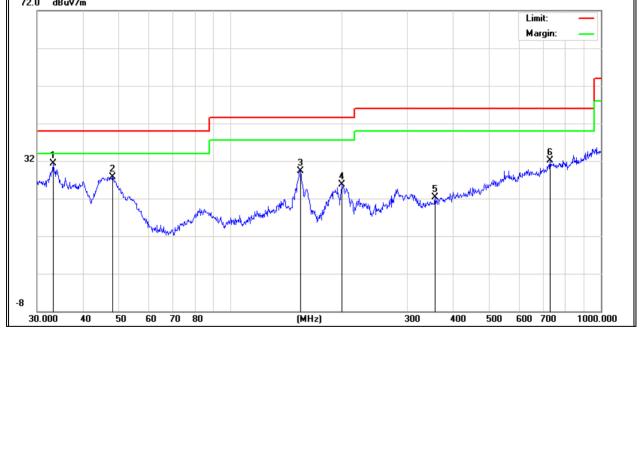
EUT:	Mobile Phone	Model Name :	V60
Temperature:	<b>23.7</b> ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.8V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	33.0950	13.71	17.53	31.24	40.00	-8.76	QP
V	47.9940	16.84	10.86	27.70	40.00	-12.30	QP
V	154.2786	17.61	11.72	29.33	43.50	-14.17	QP
V	199.2855	16.59	9.05	25.64	43.50	-17.86	QP
V	356.6757	6.12	16.16	22.28	46.00	-23.72	QP
V	729.3582	7.09	25.10	32.19	46.00	-13.81	QP

#### **Remark:**

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remain
Н	30.8535	5.77	18.39	24.16	40.00	-15.84	QP
Н	154.2786	15.20	11.72	26.92	43.50	-16.58	QP
Н	312.1794	11.36	15.37	26.73	46.00	-19.27	QP
Н	568.6127	6.79	21.93	28.72	46.00	-17.28	QP
Н	758.0407	7.55	24.93	32.48	46.00	-13.52	QP
H	965.5421	7.10	28.36	35.46	54.00	-18.54	QP
72.0 dB	n Level= Meter I		2	n= Emission Lu		Limit: Margin:	
-8 30.000	40 50 60	70 80	(МН	z)	300 400 5	600 600 700	1000.000



■ Spurious	s Emiss	sion Above	1GHz (1G	Hz to 25	GHz)					
EUT:		Mobile Pho	one	Model No.:						
Temperature	e:	<b>20</b> ℃		Re	Relative Humidity: 48%			, 0		
Test Mode:		Mode2/Mo	de3/Mode4	4 Τε	est By:		Mary	/ Hu		
					- <b>,</b>			-		
Frequency	Read Leve		Antenna Factor	Pream Factor	•	Lim	its	Margin	Remark	Comment
(MHz)	(dBµ∖	/) (dB)	dB/m	(dB)	(dBµV/m)	(dBµ∖	//m)	(dB)		
Low Channel (2402 MHz)(GFSK)Above 1G										
4839.11	64.27	7 5.21	35.59	44.30	60.77	74.(	00	-13.23	Pk	Vertical
4839.11	43.10	5.21	35.59	44.30	39.60	54.0	00	-14.40	AV	Vertical
7206.77	63.21	1 6.48	36.27	44.60	61.36	74.0	00	-12.64	Pk	Vertical
7206.77	43.81	1 6.48	36.27	44.60	41.96	54.0	00	-12.04	AV	Vertical
4804.81	64.11	1 5.21	35.55	44.30	60.57	74.(	00	-13.43	Pk	Horizontal
4804.81	43.57	7 5.21	35.55	44.30	40.03	54.0	00	-13.97	AV	Horizontal
7206.84	62.97	6.48	36.27	44.52	61.20	74.0	00	-12.80	Pk	Horizontal
7206.84	43.72	2 6.48	36.27	44.52	41.95	54.0	00	-12.05	AV	Horizontal
	Mid Channel (2440 MHz)(GFSK)Above 1G									
4880.08	64.85	5 5.21	35.66	44.20	61.52	74.0	00	-12.48	Pk	Vertical
4880.08	44.00	5.21	35.66	44.20	40.67	54.0	00	-13.33	AV	Vertical
7320.22	62.84	4 7.10	36.50	44.43	62.01	74.(	00	-11.99	Pk	Vertical
7320.22	43.76	5 7.10	36.50	44.43	42.93	54.0	00	-11.07	AV	Vertical
4880.25	63.58	3 5.21	35.66	44.20	60.25	74.(	00	-13.75	Pk	Horizontal
4880.25	43.31	1 5.21	35.66	44.20	39.98	54.0	00	-14.02	AV	Horizontal
7320.50	60.97	7 7.10	36.50	44.43	60.14	74.(	00	-13.86	Pk	Horizontal
7320.50	43.52	2 7.10	36.50	44.43	42.69	54.0	00	-11.31	AV	Horizontal
			High Cha	annel (24	80 MHz)(GFSK	K) Abo	ove 10	3		
4960.82	64.46	5 5.21	35.52	44.21	60.98	74.0	00	-13.02	Pk	Vertical
4960.82	43.10	5.21	35.52	44.21	39.62	54.0	00	-14.38	AV	Vertical
7440.43	64.70	7.10	36.53	44.60	63.73	74.0	00	-10.27	Pk	Vertical
7440.43	43.77	7 7.10	36.53	44.60	42.80	54.0	00	-11.20	AV	Vertical
4960.93	63.21	1 5.21	35.52	44.21	59.73	74.0	00	-14.27	Pk	Horizontal
4960.93	43.24	4 5.21	35.52	44.21	39.76	54.0	00	-14.24	AV	Horizontal
7440.17	61.69	9 7.10	36.53	44.60	60.72	74.0	00	-13.28	Pk	Horizontal
7440.17	43.45	5 7.10	36.53	44.60	42.48	54.0	00	-11.52	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



UT:	Mobile	Phone		Mod	Model No.:			V60		
emperature:	<b>20</b> ℃			Rela	ative Humidit	y: 4	48%			
est Mode:	Mode2/	lode2/ Mode4 Test By:				Mary	Hu			
	Meter	Cable	Antonno	Droomn	Emission					
Frequency	Reading	Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	iits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ∖	V/m)	(dB)	Туре	
1Mbps(GFSK)										
2310.00	61.19	2.97	27.80	43.80	48.16	74	4	-25.84	Pk	Horizontal
2310.00	39.57	2.97	27.80	43.80	26.54	54	4	-27.46	AV	Horizontal
2310.00	61.55	2.97	27.80	43.80	48.52	74	4	-25.48	Pk	Vertical
2310.00	43.99	2.97	27.80	43.80	30.96	54	4	-23.04	AV	Vertical
2390.00	64.85	3.14	27.21	43.80	51.40	74	4	-22.60	Pk	Vertical
2390.00	43.88	3.14	27.21	43.80	30.43	54	4	-23.57	AV	Vertical
2390.00	61.02	3.14	27.21	43.80	47.57	74	4	-26.43	Pk	Horizontal
2390.00	43.82	3.14	27.21	43.80	30.37	54	4	-23.63	AV	Horizontal
2483.50	64.84	3.58	27.70	44.00	52.12	74	4	-21.88	Pk	Vertical
2483.50	43.37	3.58	27.70	44.00	30.65	54	4	-23.35	AV	Vertical
2483.50	62.79	3.58	27.70	44.00	50.07	74	4	-23.93	Pk	Horizontal
2483.50	43.67	3.58	27.70	44.00	30.95	54	4	-23.05	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



EUT:	Mobile	e Phone		Mo	odel No.:		V60	V60			
Temperature	: <b>20</b> °C			Re	Relative Humidity:			48%			
Test Mode:				est By:	-	Mary	Hu				
Frequency	Reading Level	Cable Loss	Antenna Factor	Prean Facto	•	Lir	mits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	) (dBµV/m)	(dB	uV/m)	(dB)	Туре		
3260	61.85	4.04	29.57	44.7	0 50.76	7	74	-23.24	Pk	Vertical	
3260	43.78	4.04	29.57	44.7	0 32.69	Ę	54	-21.31	AV	Vertical	
3260	60.29	4.04	29.57	44.7	0 49.20	7	74	-24.80	Pk	Horizontal	
3260	43.65	4.04	29.57	44.7	0 32.56	Ę	54	-21.44	AV	Horizontal	
3332	61.71	4.26	29.87	44.4	0 51.44	7	74	-22.56	Pk	Vertical	
3332	43.51	4.26	29.87	44.4	0 33.24	Ę	54	-20.76	AV	Vertical	
3332	62.10	4.26	29.87	44.4	0 51.83	7	74	-22.17	Pk	Horizontal	
3332	43.83	4.26	29.87	44.4	0 33.56	Ę	54	-20.44	AV	Horizontal	
17797	48.62	10.99	43.95	43.5	0 60.06	7	74	-13.94	Pk	Vertical	
17797	34.30	10.99	43.95	43.5	0 45.74	Ę	54	-8.26	AV	Vertical	
17788	48.64	11.81	43.69	44.6	0 59.54	7	74	-14.46	Pk	Horizontal	
17788	34.62	11.81	43.69	44.6	0 45.52	Ę	54	-8.48	AV	Horizontal	

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



#### 7.3 6DB BANDWIDTH

#### 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

#### 7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

#### 7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq$  3\*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	V60
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 7.4 DUTY CYCLE

#### 7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

#### 7.4.2 Conformance Limit

No limit requirement.

#### 7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if  $T \le 6.25$  microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz ( $\geq$  RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T<sub>total</sub> and T<sub>on</sub> Calculate Duty Cycle = T<sub>on</sub>/T<sub>total</sub>



## 7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	V60
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable



#### 7.5 **PEAK OUTPUT POWER**

#### 7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

#### 7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW  $\geq$  DTS bandwidth. Set VBW =3\*RBW. Set the span  $\geq$  3\*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

#### 7.5.6 Test Results

EUT:	Mobile Phone	Model No.:	V60
Temperature:	<b>20</b> °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 7.6 **POWER SPECTRAL DENSITY**

#### 7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

#### 7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5\*DTS bandwidth.

c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .

d) Set the VBW  $\geq$  3 RBW.

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



#### 7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	V60
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 7.7 CONDUCTED BAND EDGE MEASUREMENT

#### 7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

#### 7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

#### 7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

#### 7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	V60
Temperature:	<b>20</b> °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu



#### 7.8 SPURIOUS RF CONDUCTED EMISSIONS

#### 7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### 7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

#### 7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

#### 7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



#### 7.9 ANTENNA APPLICATION

#### 7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 7.9.2 Result

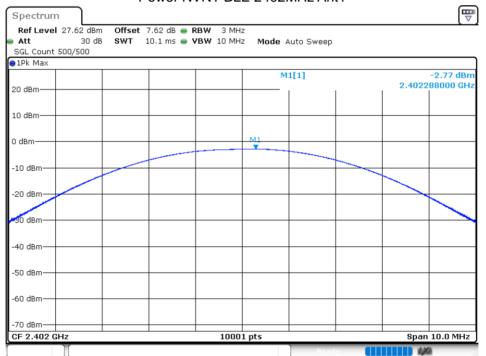
The EUT antenna is permanent attached PIFA antenna (Gain: 1.1 dBi). It comply with the standard requirement.



## 8 TEST RESULTS

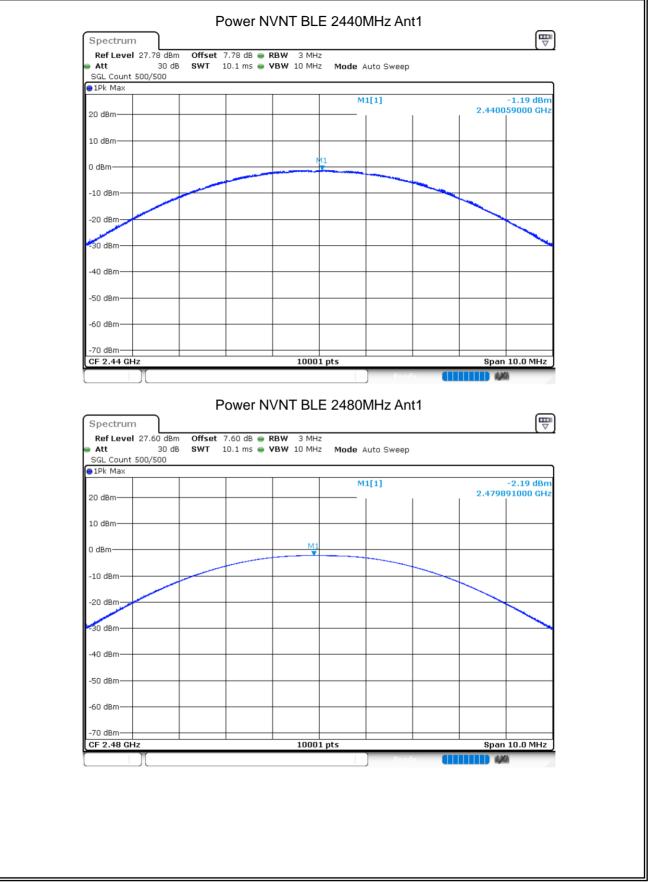
#### 8.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency	Antenna	Conducted	Limit	Verdict
		(MHz)		Power	(dBm)	
				(dBm)		
NVNT	BLE	2402	Ant 1	-2.77	30	Pass
NVNT	BLE	2440	Ant 1	-1.19	30	Pass
NVNT	BLE	2480	Ant 1	-2.19	30	Pass



#### Power NVNT BLE 2402MHz Ant1

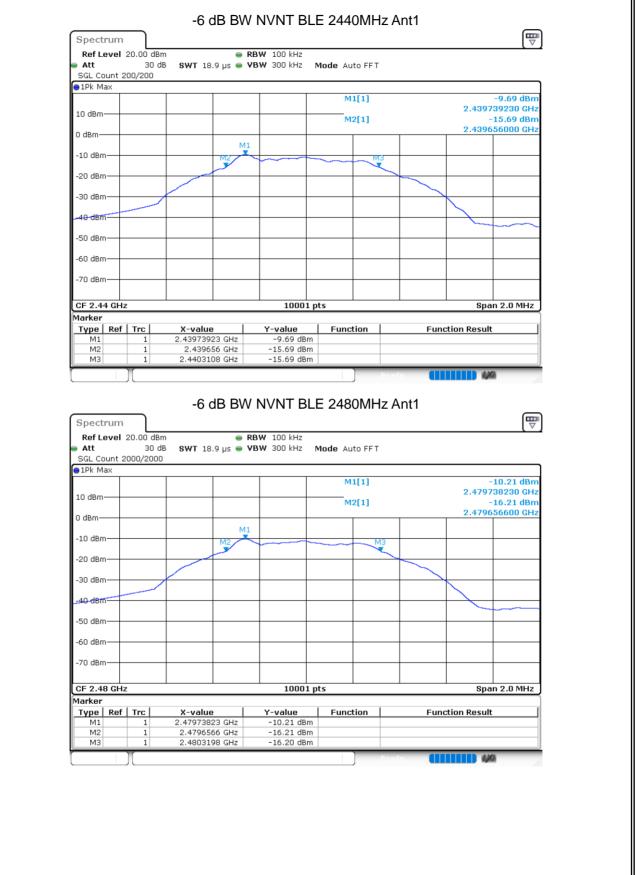






	Mode		iency	Antei	nna		andwidth	Lim		Bandwidth	Verdic
		(MF					Hz)		(MI		
NVNT	BLE	240		Ant			602		0.		Pass
NVNT	BLE	244		Ant			548		0.		Pass
NVNT	BLE	248	30	Ant	:1	0.6	632		0.	.5	Pass
			6.0				2MHz An	-1			
	Spectrur	77	-0 0			DLL 240		. 1			
		el 20.00 dBm		🖷 RB	<b>W</b> 100 kH	łz				( v )	
	Att SGL Count	30 dB t 500/500	SWT 18.	.9 µs 👄 <b>VB</b>	<b>W</b> 300 k⊦	Iz Mode Au	uto FFT				
	●1Pk Max					1					
	10 10-					M	1[1]			-11.02 dBm 738830 GHz	
	10 dBm					M	12[1]			-17.01 dBm 62000 GHz	
	0 dBm			M1					2.1010		
	-10 dBm—			M2	ļ		M3				
	-20 dBm—			~							
	-30 dBm	ļļ									
	-40 dBm								$\searrow$		
	-50 dBm-										
	-60 dBm										
	-70 dBm—										
	CF 2.402	GHz			10	D01 pts			Spa	in 2.0 MHz	
	Marker						- 1	_			
	Type Re M1	ef Trc 1	2.4017388		Y-value -11.02		tion	Func	tion Result	t	
	M2 M3	1	2.40166		-17.01 -17.02						
			21102022		11102	donn	Ready			0	

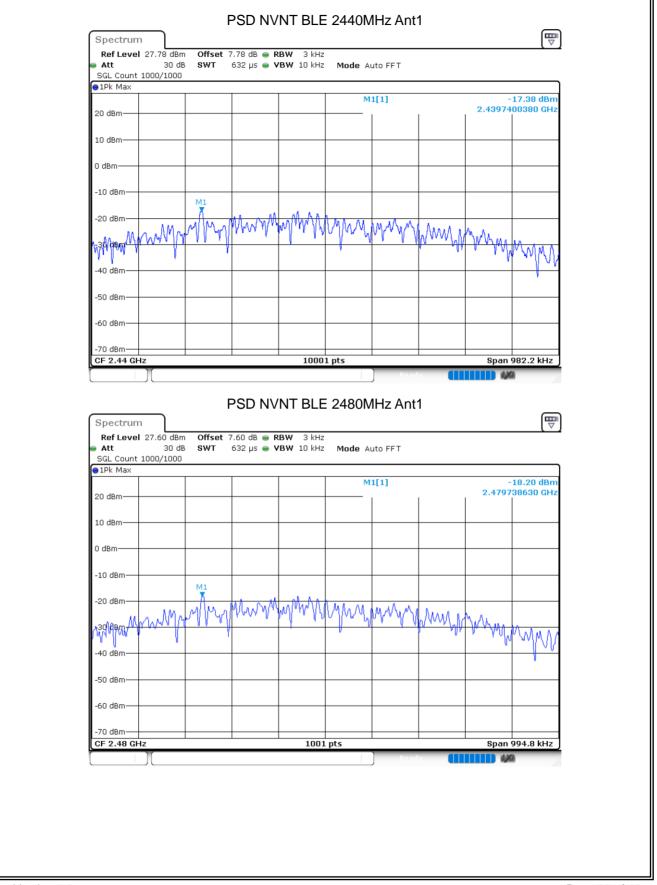






Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz	) (d	Limit Bm/3kHz)	Verdict
NVNT	BLE	2402	Ant 1	-18.88		8	Pass
NVNT	BLE	2440	Ant 1	-17.378		8	Pass
NVNT	BLE	2480	Ant 1	-18.20		8	Pass
	I	PS	D NVNT BLE	2402MHz Ant1			
	Spectrum Ref Level 2	27.62 dBm Offset 7.6	2 dB 👄 <b>RBW</b> 3 kHz				
	<ul> <li>Att</li> <li>SGL Count 30</li> <li>1Pk Max</li> </ul>	30 dB <b>SWT</b> 631.8	8 µs 🖷 <b>VBW</b> 10 kHz	Mode Auto FFT			
	20 dBm-			M1[1]	2.40	-18.88 dBm 19419740 GHz	
	10 dBm						
	0 dBm						
	-10 dBm		M1				
	-20 dBm	MMMMM		MMM.MMM	ADDA A DA DA		
		while it if.		mmmp	www.hajaray	MMMMM	
	-40 dBm						
	-60 dBm						
	70.40.0						
	-70 dBm CF 2.402 GH:		10001	pts	Si	oan 990.3 kHz	
		ſ		Ready	annn	4,40	

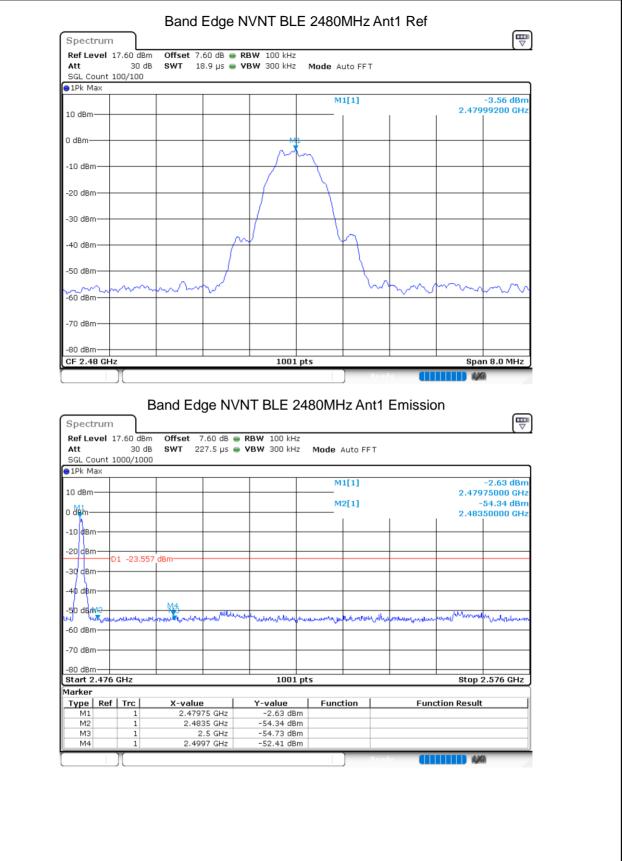






BAND E ondition		Fre	equency (MHz)	Antenna	Max Valu	e (dBc)	Limit (dE	Bc) Verdic
NVNT	BLE		2402	Ant 1	-47		-20	Pass
IVNT	BLE		2480	Ant 1	-48.	85	-20	Pass
Re At SG 10 0 d -10	iL Count 100, Pk Max dBm	30 dB	Band Edge NV	₩ 100 kHz		t1 Ref	-3.4 2.401736	₩ 0 dBm 30 GHz
-40 -50 -60	dBm dBm dBm dBm dBm	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~
-80	dBm							
	dBm 2.402 GHz	Ba	and Edge NVN1	1001 pts	MHz Ant1	Emissio	Span 8.(	D MHz
CF Re At SG	2.402 GHz	2 dBm 30 dB	offset 7.62 dB • RB SWT 227.5 µs • VB	BLE 2402		Emissio	n	(₩) 24 dBm
CF Rea At SG 110 0 d -100 -300	2.402 GHz	2 dBm 30 dB	Offset 7.62 dB ● RB SWT 227.5 µs ● VB	BLE 2402	<b>de</b> Auto FFT	Emissio	-4.2 2.4019500	₩ 24 dBm 00 GHz 18 dBm
CF Ret At SG ● 1F 10 0 d -10 -20 -30 -30 -30 -40 -50 Ju <sub>1</sub> 4 -60 -70 -70 -80 Stt 3	2.402 GHz	2 dBm 30 dB /100 23.397 c	Offset 7.62 dB      RB SWT 227.5 µs     VB	BLE 2402	de Auto FFT	Malthie Joury W	-4.2 2.4019500 -55.0 2.4000000	24 dBm 00 GHz 18 dBm 00 GHz 18 dBm

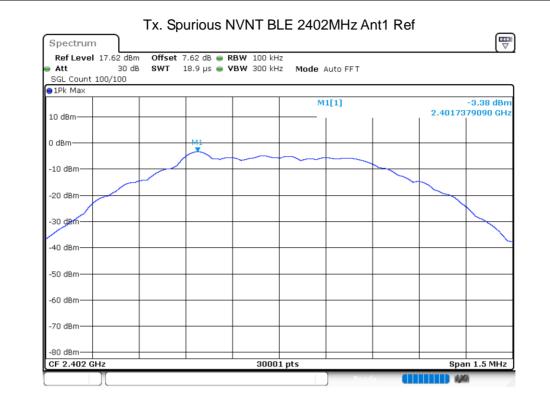




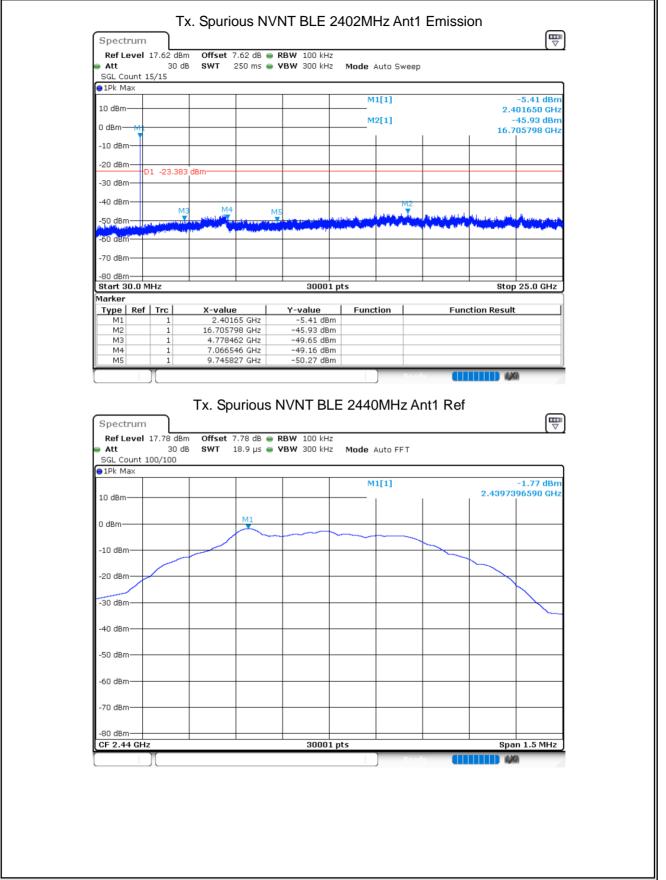


#### 8.5 CONDUCTED RF SPURIOUS EMISSION

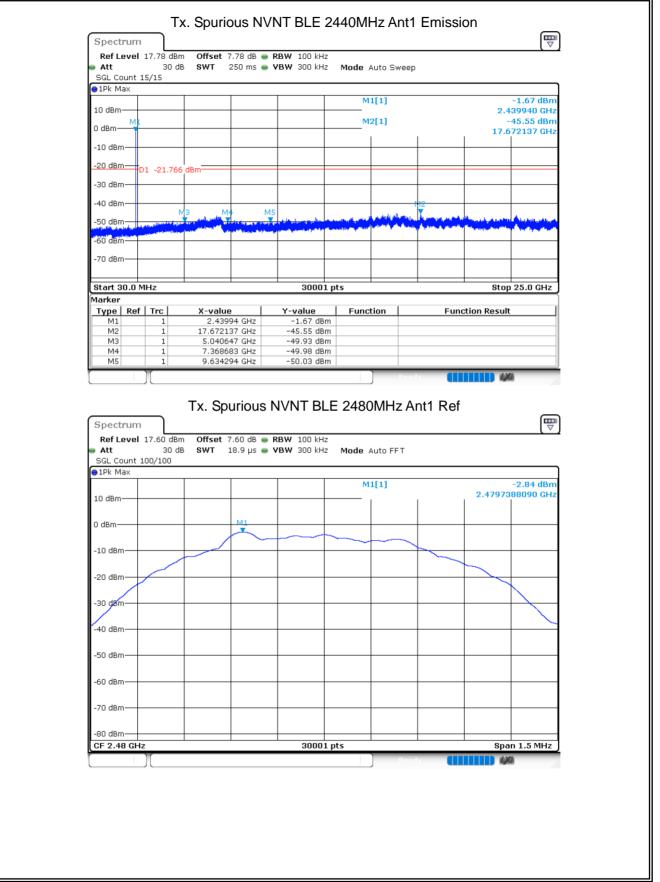
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant 1	-42.54	-20	Pass
NVNT	BLE	2440	Ant 1	-43.77	-20	Pass
NVNT	BLE	2480	Ant 1	-42.71	-20	Pass













	evel	17.60 dB	m Offset 7	7.60 dB	■ RBW 100 kH	z				♥
Att		30 d	IB SWT	250 ms	🔵 VBW 300 kH	z Mode	Auto Sw	еер		
SGL Co		0/10								
1Pk M	ах									
						N	11[1]		_	-4.24 dBm
10 dBm									2	.479890 GHz
0 dBm-	M					N	12[1]			-45.56 dBm
0 0.0111	1						1	1	1 1/	.677964 GHz
-10 dBn	ו—ר						-			
00 JP-										
-20 dBn		1 -22.83	6 dBm							
-30 dBn										
00 00.										
-40 dBn	η <b></b>							112		
			M3 N	4	M <u>5</u>		بالار بدأور ال	The second		
-50 dBn	a da ana	and the off films		far, and a		and a second second	والمرود المراجع	Property States of the		1. A.
A DOM NOT	TERMS FOR	nyahira filipa Ashir <sup>ing</sup> sita			and particular in the second		a series and a			for Analysis and
A DOM NOT	TERMS FOR	nyyye <sup>n</sup> dahara <sup>yan</sup> dahara Kabila		apage and a second						the Analoguetteet
60 dBn	y-seed the	nggan karang di Di Din Kanang <sup>kar</sup> ang karang di Singang Kanang di Singang di Singang Kanang di Singang di								The Area by probably the
-60 dBn -70 dBn	1									
-60 dBn -70 dBn -80 dBn	1 <u></u>									
-60 dBn -70 dBn -80 dBn Start 3	1 <u></u>	Hz			3000	1 pts			Sto	op 25.0 GHz
-60 dBn -70 dBn -80 dBn Start 3 1arker	0.0 M									
-60 dBn -70 dBn -80 dBn Start 3 Iarker Type	1 <u></u>	Trc	X-value		Y-value	- Fund	tion	Ft	Sti unction Resu	
-60 dBn -70 dBn -80 dBn Start 3 1arker Type M1	0.0 M	Trc 1	2.479	89 GHz	<u>Y-value</u> -4.24 dB	Fund Im	tion	FL		
-60 dBn -70 dBn -80 dBn Start 3 Iarker Type M1 M2	0.0 M	<b>Trc</b> 1	2.479 17.6779	89 GHz 64 GHz	<b>Y-value</b> -4.24 dB -45.56 dB	Fund im	tion [	Fi		
	0.0 M	Trc 1	2.479	89 GHz 64 GHz 11 GHz	<u>Y-value</u> -4.24 dB	Fund im im	tion [	Fu		

END OF REPORT

Version.1.3