

RADIO TEST REPORT FCC ID: QRP-SP-029

Product: Mobile Phone Trade Mark: AZUMI Model No.: V60 Family Model: N/A Report No.: S22031002101002 Issue Date: Mar 28, 2022

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, 0755-2320 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	:	Mar 11. 2022 ~ Mar 26, 2022
Testing Engineer	:	Johan Lin
		(Allen Liu)
Authorized Signatory	:	Aless
		(Alex Li)

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SUMMARY OF TEST RESULTS 2

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FCC Part15 (15.247), Subpart C						
Standard Section Test Item Verdict Remar						
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				

ACCREDITED

Certificate #4298.01

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 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).
Name of Firm :	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%
9	All emissions, radiated(9KHz~30MHz)	±6dB

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Mobile Phone			
Trade Mark	AZUMI			
FCC ID	QRP-SP-029			
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	0.18dBi			
Adapter	INPUT: AC 100-240V~50-60Hz 0.2A OUTPUT: DC 5.0V1A			
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_V001			

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.





Revision History

Revision mistory					
Report No.	Version	Description	Issued Date		
S22031002101002	Rev.01	Initial issue of report	Mar 28, 2022		





5 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.

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+kx2MHz 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: GFSK Tx Ch00_2402MHz_1Mbps	
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps	
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps	
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps	
Conducted Test Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps	
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps	

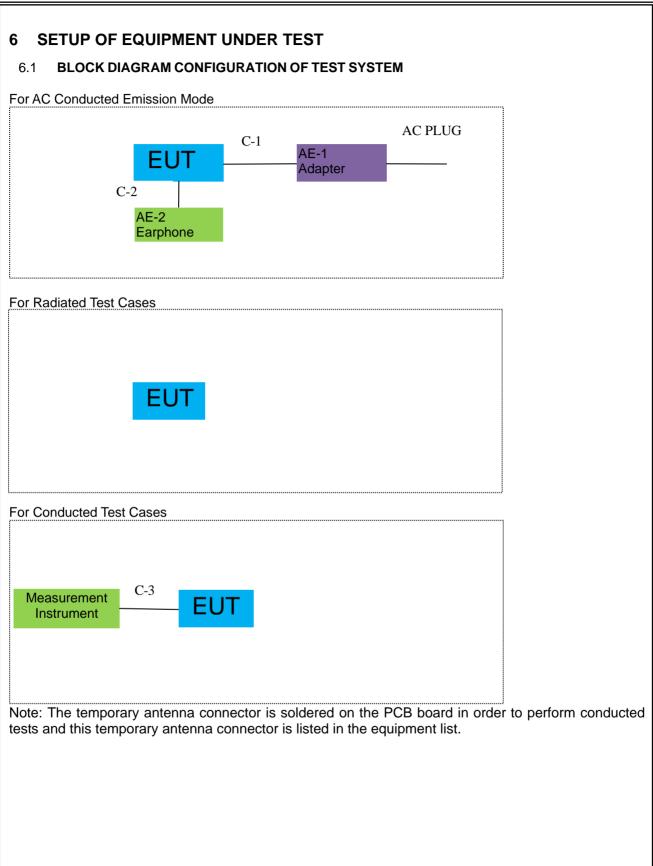
Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)

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	0.9m
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".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

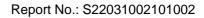
Radiation& Conducted Test equipment

		rest equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	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	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2021.11.07	2022.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2021.11.07	2022.11.06	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	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	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2021.07.01	2022.06.30	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 Co	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	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	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

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Certificate #4298.01

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.

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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 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

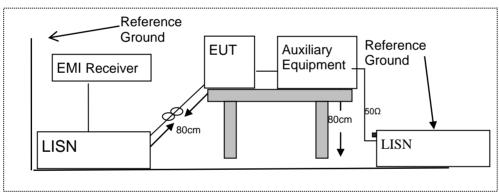
2. The lower limit shall apply at the transition frequencies

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

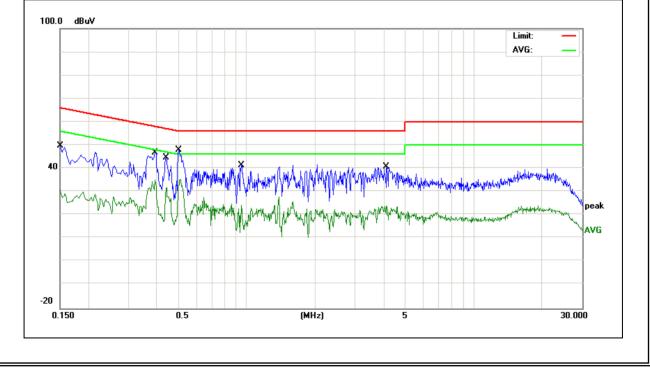
EUT:	Mobile Phone	Model Name :	V60
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	40.14	9.73	49.87	65.99	-16.12	QP
0.1500	25.30	9.73	35.03	55.99	-20.96	AVG
0.3940	37.20	9.64	46.84	57.98	-11.14	QP
0.3940	26.61	9.64	36.25	47.98	-11.73	AVG
0.4420	34.89	9.64	44.53	57.02	-12.49	QP
0.4420	24.48	9.64	34.12	47.02	-12.90	AVG
0.5020	38.28	9.64	47.92	56.00	-8.08	QP
0.5020	25.68	9.64	35.32	46.00	-10.68	AVG
0.9460	31.49	9.75	41.24	56.00	-14.76	QP
0.9460	21.58	9.75	31.33	46.00	-14.67	AVG
4.1260	31.00	9.67	40.67	56.00	-15.33	QP
4.1260	13.89	9.67	23.56	46.00	-22.44	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.







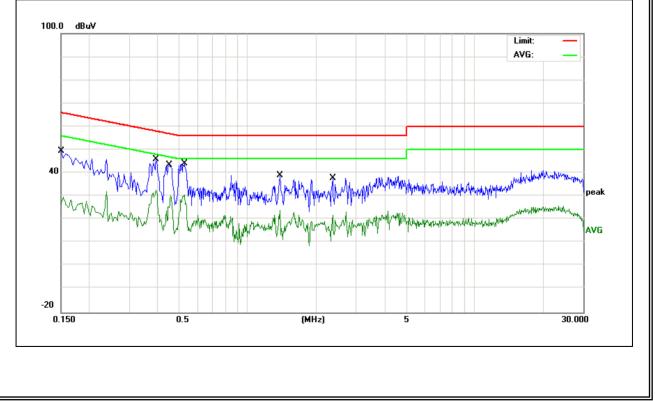
EUT:	Mobile Phone	Model Name :	V60
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demorile
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	39.94	9.63	49.57	65.99	-16.42	QP
0.1500	22.28	9.63	31.91	55.99	-24.08	AVG
0.3940	36.24	9.70	45.94	57.98	-12.04	QP
0.3940	22.81	9.70	32.51	47.98	-15.47	AVG
0.4500	33.68	9.72	43.40	56.87	-13.47	QP
0.4500	23.40	9.72	33.12	46.87	-13.75	AVG
0.5260	34.41	9.73	44.14	56.00	-11.86	QP
0.5260	24.53	9.73	34.26	46.00	-11.74	AVG
1.3820	29.27	9.71	38.98	56.00	-17.02	QP
1.3820	18.98	9.71	28.69	46.00	-17.31	AVG
2.3699	28.01	9.68	37.69	56.00	-18.31	QP
2.3699	13.63	9.68	23.31	46.00	-22.69	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 1 OC 1 art 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)

Eroguopov(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.

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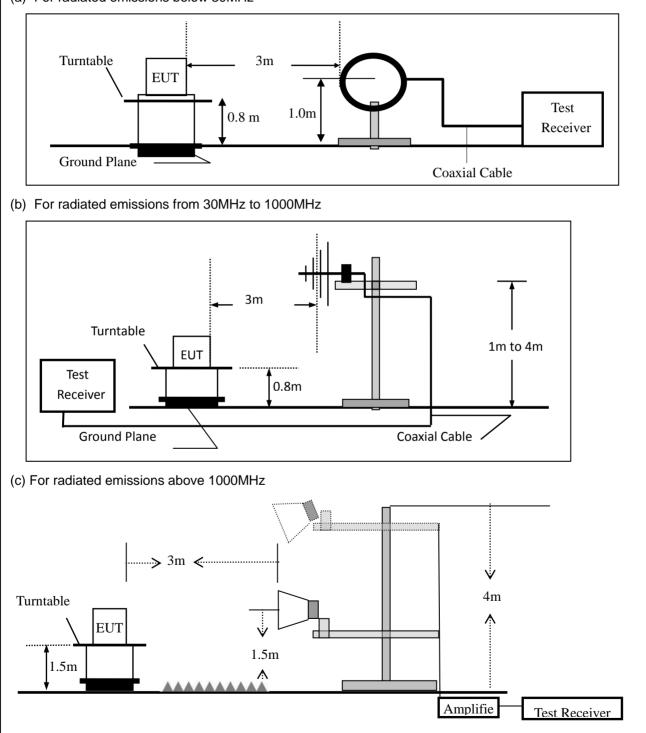


7.2.3 Measuring Instruments

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

7.2.4 Test Configuration

(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:

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 test, the Spectrum Analyzer was set with the following configurations:

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Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 4000	Peak	1 MHz	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	Emission	below	30MHz	(9KHz to 30MHz)
--	----------	----------	-------	-------	-----------------

EUT:	Mobile Phone	Model No.:	V60
Temperature:	20 ℃	Relative Humidity:	48%
Lest Mode.	Mode1/Mode2/Mode3/ Mode4	Test By:	Allen Liu

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

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:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.8V		

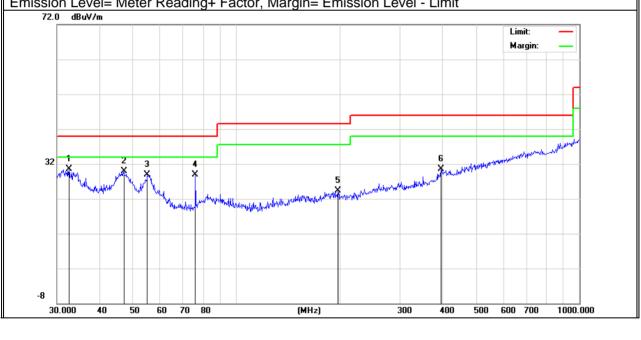
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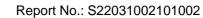
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Limits Margin	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Remark
V	32.5198	8.15	22.30	30.45	40.00	-9.55	QP
V	46.9948	14.30	15.54	29.84	.84 40.00		QP
V	55.0274	14.54	14.35	35 28.89 40.0		-11.11	QP
V	75.9773	14.34	14.50	28.84	40.00	-11.16	QP
V	197.8928	7.12	17.18	24.30	43.50	-19.20	QP
V	394.8545	6.13	24.31	30.44	46.00	-15.56	QP

Remark:

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







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	MHz) (dBuV) (dB) (dBuV/m) (dBuV/m)		(dB)	i toman		
Н	32.9791	7.05	22.06	29.11	40.00	-10.89	QP
Н	55.0274	7.24	14.35	21.59	40.00	-18.41	QP
Н	164.3301	6.76	16.89	23.65	43.50	-19.85	QP
Н	250.3011	7.13	19.46	26.59	46.00	-19.41	QP
Н	403.2500	5.87	24.76	30.63	46.00	-15.37	QP
Н	890.7278	7.10	30.97	38.07	46.00	-7.93	QP
211115510 72.0	n Level= Meter I dBu¥/m	Reading+ Fac				Limit:	
			in a gin				
						Limic: Margin:	
-							
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_							6
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Spurious	Spurious Emission Above 1GHz (1GHz to 25GHz)										
EUT:	EUT: Mobile Phone Model N					el No.:		V60			
Temperature	e: 2	20 ℃			Rela	tive Humidi	idity: 48%				
Test Mode:	1	Mode2/Mod	de3/Mode4	-	Test	By:		Aller	ı Liu		
Frequency	Read Level		Antenna Factor	Prea Fac	•	Emission Level	Lim	nits	Margin	Remark	Comment
(MHz)	(dBµV	′) (dB)	dB/m	(dl	B)	(dBµV/m)	(dBµ'	V/m)	(dB)		
			Low Cha	annel (2402	MHz)(GFSK	()Abo	ve 1G	1		
4804.338	62.86	5.21	35.59	44.	30	59.36	74.	00	-14.64	Pk	Vertical
4804.338	42.18	5.21	35.59	44.	30	38.68	54.	00	-15.32	AV	Vertical
7206.107	61.78	6.48	36.27	44.	60	59.93	74.	00	-14.07	Pk	Vertical
7206.107	42.37	6.48	36.27	44.	60	40.52	54.	00	-13.48	AV	Vertical
4804.169	64.30	5.21	35.55	44.	30	60.76	74.	00	-13.24	Pk	Horizontal
4804.169	43.57	5.21	35.55	44.	30	40.03	54.	00	-13.97	AV	Horizontal
7206.214	61.94	6.48	36.27	44.	52	60.17	74.00		-13.83	Pk	Horizontal
7206.214	41.26	6.48	36.27	44.	52	39.49	54.	00	-14.51	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)Above 1G											
4880.473	63.50	5.21	35.66	44.	20	60.17	74.	00	-13.83	Pk	Vertical
4880.473	43.93	5.21	35.66	44.	20	40.60	54.	00	-13.40	AV	Vertical
7320.265	64.36	5 7.10	36.50	44.	43	63.53	74.	00	-10.47	Pk	Vertical
7320.265	41.87	7.10	36.50	44.	43	41.04	54.	00	-12.96	AV	Vertical
4880.366	62.77	5.21	35.66	44.	20	59.44	74.	00	-14.56	Pk	Horizontal
4880.366	41.29	5.21	35.66	44.	20	37.96	54.	00	-16.04	AV	Horizontal
7320.234	59.99	7.10	36.50	44.	43	59.16	74.	00	-14.84	Pk	Horizontal
7320.234	44.55	5 7.10	36.50	44.	43	43.72	54.	00	-10.28	AV	Horizontal
			High Cha	nnel (2480	MHz)(GFSK	() Abo	ove 10	6		
4960.482	63.21	5.21	35.52	44.	21	59.73	74.	00	-14.27	Pk	Vertical
4960.482	42.31	5.21	35.52	44.	21	38.83	54.	00	-15.17	AV	Vertical
7440.131	64.65	5 7.10	36.53	44.	60	63.68	74.	00	-10.32	Pk	Vertical
7440.131	48.80	7.10	36.53	44.	60	47.83	54.	00	-6.17	AV	Vertical
4960.326	64.13	5.21	35.52	44.	21	60.65	74.	00	-13.35	Pk	Horizontal
4960.326	45.60	5.21	35.52	44.	21	42.12	54.	00	-11.88	AV	Horizontal
7440.199	63.88	3 7.10	36.53	44.	60	62.91	74.	00	-11.09	Pk	Horizontal
7440.199	45.50	7.10	36.53	44.	60	44.53	54.	00	-9.47	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.





ι	JT:	Mobile P	hone		Mod	Model No.:		V60			
e	emperature:	20 ℃			Rela	tive Humidit	y:	48%			
Ē	est Mode: Mode2/ Mode4			Test	By:		Allen	Liu			
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lin	nits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	ıV/m)	(dB)	Туре	
1Mbps(GFSK)											
	2310.00	63.55	2.97	27.80	43.80	50.52	7	'4	-23.48	Pk	Horizontal
	2310.00	43.73	2.97	27.80	43.80	30.70	5	54	-23.30	AV	Horizontal
	2310.00	61.32	2.97	27.80	43.80	48.29	7	'4	-25.71	Pk	Vertical
	2310.00	42.17	2.97	27.80	43.80	29.14	5	64	-24.86	AV	Vertical
	2390.00	64.67	3.14	27.21	43.80	51.22	7	'4	-22.78	Pk	Vertical
	2390.00	44.05	3.14	27.21	43.80	30.60	5	64	-23.40	AV	Vertical
	2390.00	63.49	3.14	27.21	43.80	50.04	7	'4	-23.96	Pk	Horizontal
	2390.00	41.98	3.14	27.21	43.80	28.53	5	54	-25.47	AV	Horizontal
	2483.50	62.57	3.58	27.70	44.00	49.85	7	'4	-24.15	Pk	Vertical
	2483.50	42.95	3.58	27.70	44.00	30.23	5	54	-23.77	AV	Vertical
	2483.50	66.24	3.58	27.70	44.00	53.52	7	'4	-20.48	Pk	Horizontal
	2483.50	43.08	3.58	27.70	44.00	30.36	5	4	-23.64	AV	Horizontal

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



Spurious	s Emis	ssion i	in Restric	ted Band 3	3260MHz	-18000MHz					
EUT:	1	Mobile	e Phone		Mode	Model No.: V		V60			
Temperature	e: 2	20 ℃			Relat	ve Humidity	:	48%			
Test Mode:	I	Mode2	2/ Mode4		Test I	Зу:		Allen L	_iu		
Frequency	Rea Lev	ding vel	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Li	mits	Margin	Detector	Comment
(MHz)	(dB	μV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	µV/m)	(dB)	Туре	
3260	63.	.27	4.04	29.57	44.70	52.18	-	74	-21.82	Pk	Vertical
3260	57.	.12	4.04	29.57	44.70	46.03	4	54	-7.97	AV	Vertical
3260	65.	.22	4.04	29.57	44.70	54.13	-	74	-19.87	Pk	Horizontal
3260	58.	.00	4.04	29.57	44.70	46.91	4	54	-7.09	AV	Horizontal
3332	65.	.44	4.26	29.87	44.40	55.17	-	74	-18.83	Pk	Vertical
3332	57.	.77	4.26	29.87	44.40	47.50	ł	54	-6.50	AV	Vertical
3332	67.	.07	4.26	29.87	44.40	56.80	-	74	-17.20	Pk	Horizontal
3332	52.	.73	4.26	29.87	44.40	42.46	4	54	-11.54	AV	Horizontal
17797	46.	.41	10.99	43.95	43.50	57.85	-	74	-16.15	Pk	Vertical
17797	35.	.77	10.99	43.95	43.50	47.21	ł	54	-6.79	AV	Vertical
17788	45.	.13	11.81	43.69	44.60	56.03	-	74	-17.97	Pk	Horizontal
17788	36.	.49	11.81	43.69	44.60	47.39	4	54	-6.61	AV	Horizontal

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



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.

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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:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu





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.)

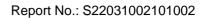
The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

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_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}





7.4.6 Test Results

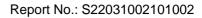
EUT:	Mobile Phone	Model No.:	V60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

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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.

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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:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



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.

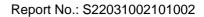




7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	V60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu





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.

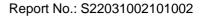
Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	V60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Allen Liu





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.

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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

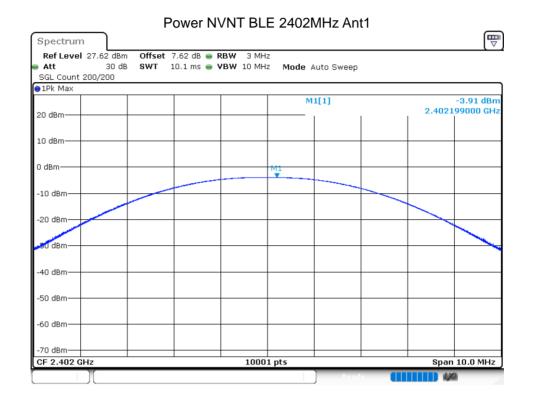
The EUT antenna is permanent attached PIFA antenna (Gain: 0.18dBi). It comply with the standard requirement.



8 TEST RESULTS

8.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant 1	-3.906	30	Pass
NVNT	BLE	2440	Ant 1	-4.769	30	Pass
NVNT	BLE	2480	Ant 1	-4.765	30	Pass



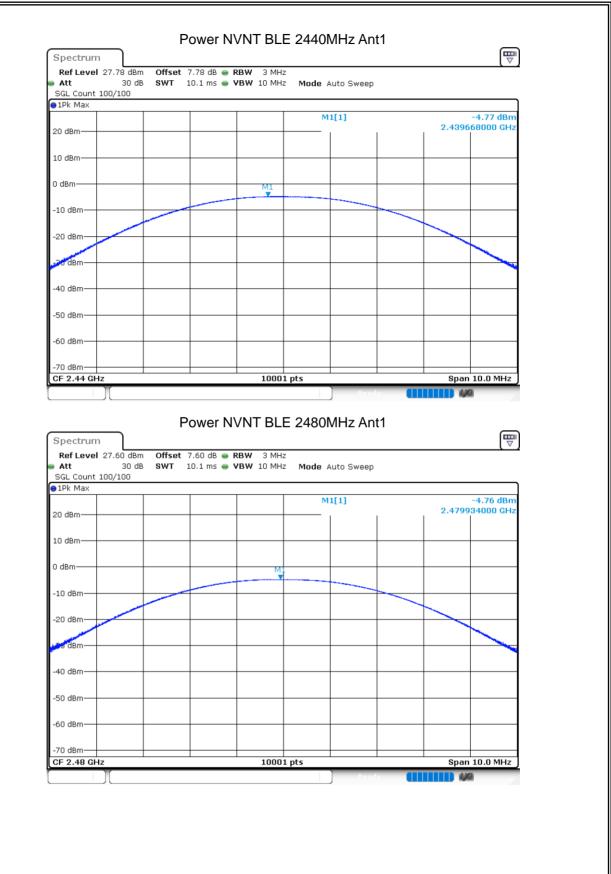


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Report No.: S22031002101002







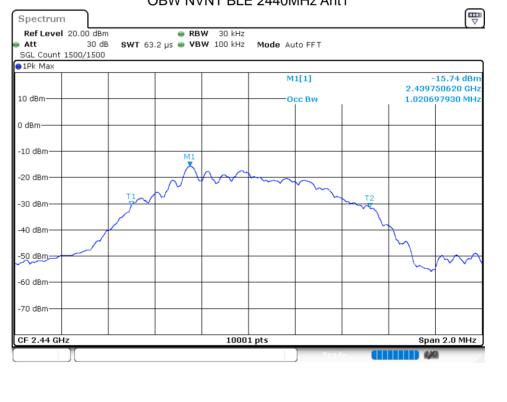
8.2 OCCUPIED CHANNEL BANDWIDTH

0.2 000								
Condition	Mode	Frequency	Antenna	99%	-6 dB	Limit -6 dB	Verdict	
		(MHz)		OBW	Bandwidth	Bandwidth		
				(MHz)	(MHz)	(MHz)		
NVNT	BLE	2402	Ant 1	1.0199	0.6638	0.5	Pass	
NVNT	BLE	2440	Ant 1	1.0207	0.6606	0.5	Pass	
NVNT	BLE	2480	Ant 1	1.0215	0.6626	0.5	Pass	





-6 dB BW NVNT BLE 2402MHz Ant1 ₩ Spectrum Ref Level 20.00 dBm RBW 100 kHz Att 30 dB SWT 18.9 µs 👄 VBW 300 kHz 🛛 Mode Auto FFT SGL Count 1500/1500 ●1Pk Max M1[1] -11.83 dBn 2.401750620 GHz 10 dBm-M2[1] -17.83 dBm 2.401666400 GHz 0 dBm-M1 -10 dBm M2 МЗ -20 dBm -30 dBm· 40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 10001 pts Span 2.0 MHz Marker Type | Ref | Trc X-value Y-value Function Function Result 2.40175062 GHz -11.83 dBm Μ1 1 M2 2,4016664 GHz -17.83 dBm 1 -17.83 dBm MЗ 1 2.4023302 GHz



OBW NVNT BLE 2440MHz Ant1







-6 dB BW NVNT BLE 2480MHz Ant1

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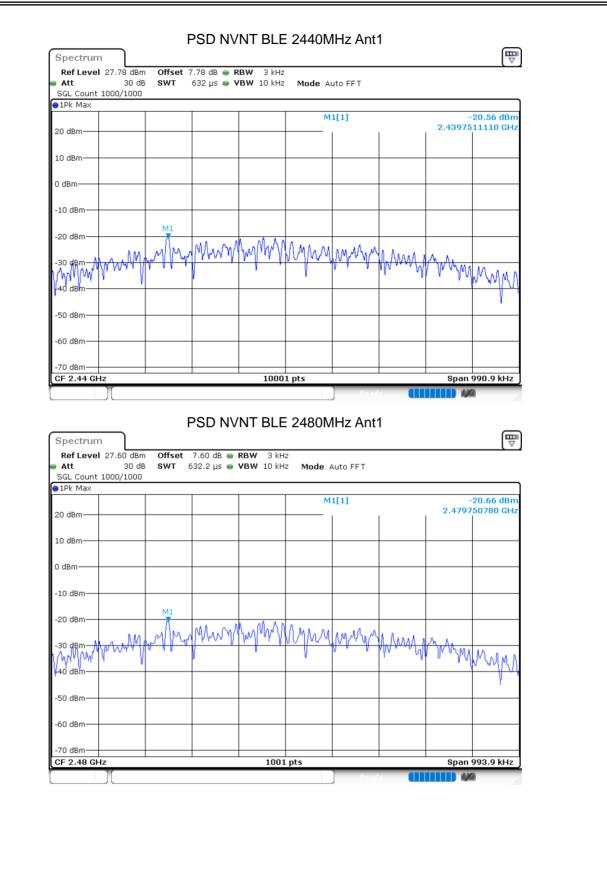
	um						
	vel 2	20.00 dB	_	RBW 100 kHz	_		
Att SGL Cou	t 00	30 c		VBW 300 kHz N	lode Auto FFT		
3GL COU 3GL COU		00/2000	J				
					M1[1]		-12.62 dBn 2.479748430 GH
10 dBm—					M2[1]		-18.60 dBn 2.479666400 GH
0 dBm—	-						2.475000400 011
-10 dBm-	_		1 1	M1			
-20 dBm-	_		M2		M		
-30 dBm-	_						
-40 dBm-							
-50 dBm-							
-60 dBm-	_						
-70 dBm-	_						
CF 2.48	GHz			10001 pt	ts		Span 2.0 MHz
Marker							
	Ref	Trc	X-value	Y-value	Function	Fun	ction Result
M1		1	2.47974843 GHz	-12.62 dBm			
M2		1	2.4796664 GHz	-18.60 dBm			
MЗ		1	2.480329 GHz	-18.62 dBm			



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ondition NVNT	Mode BLE		icy (MHz) 102	Anter Ant		Max PSI) (dBm/ 19.827	/3kHz)	Limit (dBm/3kHz) 8	Verdi Pass
NVNT	BLE		140	Ant 1		-20.557				8	Pass
NVNT	BLE	24	180	Ant	1	-:	20.656			8	Pass
	🖷 Att	rum evel 27.62 dBr 30 d	m Offset 7.6 B SWT 632	2 dB 🖷 RI	BW 3k		1Hz Ant	1			
	●1Pk Ma					M	1[1]			19.83 dBm	
	20 dBm-								2.40195	27090 GHz	
	10 dBm-										
	0 dBm—										
	-10 dBm										
					M1						
	-20 dBm	MARAM	LMMM	www	MA	Mym	MMAN	A Asses	A. A.		
	-30 dBm	WAYNAW				In the start	N . L . A	WWW	M MA	MAAAA	
	40 dBm								· · ·	V VIVE V	
	-50 dBm	ı <u> </u>								'	
	-60 dBm										
	-70 dBm				100	01 pts			Span	995.7 kHz	
) Read	v (II			





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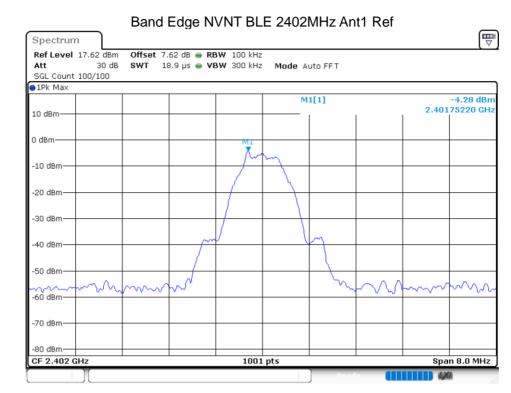
8.4 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant 1	-46.9	-20	Pass
NVNT	BLE	2480	Ant 1	-46.98	-20	Pass

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Spectrum							
Ref Level 17.62 dBm Att 30 dB		 RBW 100 kHz VBW 300 kHz 		Auto FFT			
SGL Count 100/100 1Pk Max				lato I I I			
IPK Max			м	1[1]			-4.26 dBm
10 dBm				2[1]			75000 GHz 55.15 dBm
0 dBm					1		00000
-10 dBm							<u> </u>
-20 dBm							
-30 dBm	5 dBm						
-40 dBm							
50 dBm		M4					
and the way on the reality of	water market the	chemilion and allow and allo	weitertrait	a ser that working	ponthetal	M3 MM	white with
-00 0811							
-70 dBm							
-80 dBm		1001	nts			Ston	2.406 GHz
Aarker		1001				otop /	
Type Ref Trc M1 1	2.40175 GHz	<u>Y-value</u> -4.26 dBr	Func	tion	Fund	tion Result	
1VII 1		-4.20 UDI					
M2 1	2.4 GHz	-55.15 dBr					
M2 1 M3 1	2.4 GHz 2.39 GHz	-55.15 dBr -56.65 dBr	n n				
M2 1	2.4 GHz	-55.15 dBr	n n) Read	ly (1		
M2 1 M3 1	2.4 GHz 2.39 GHz	-55.15 dBr -56.65 dBr -51.18 dBr	n n n) MHz Ar	nt1 Ref		
M2 1 M3 1 M4 1 Spectrum Ref Level 17.60 dBr	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI	E 2480		nt1 Ref		
M2 1 M3 1 M4 1 Spectrum Ref Level Ref Level 17.60 dBm Att 30 dB SGL Count 100/100	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr	E 2480		nt1 Ref		
M2 1 M3 1 M4 1 Spectrum Ref Level 17.60 dBm	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI	m m E 2480 Mode A	uto FFT	nt1 Ref		
M2 1 M3 1 M4 1 Spectrum Ref Level 17.60 dBn Att 30 dE SGL Count 100/100 1Pk Max	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI	m m E 2480 Mode A		nt1 Ref	2.479	-5.45 dBm 75220 GHz
M2 1 M3 1 M4 1 Spectrum Image: Construction of the second seco	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum Ref Level 17.60 dBn Att 30 dB SGL Count 100/100	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum Image: Construction of the second seco	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI • RBW 100 kHz • VBW 300 kHz	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI • RBW 100 kHz • VBW 300 kHz	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum 1 Ref Level 17.60 dBm SGL Count 100/100 1Pk Max 10 0 dBm	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI • RBW 100 kHz • VBW 300 kHz	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum Image: Construct of the second	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI • RBW 100 kHz • VBW 300 kHz	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum 1 Ref Level 17.60 dBm Att 30 dE SGL Count 100/100 IPk Max 10 dBm -10 dBm	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI • RBW 100 kHz • VBW 300 kHz	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum 1 Ref Level 17.60 dBn 30 dE SGL Count 100/100 1Pk Max 10 dBm - -10 dBm - -20 dBm -	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI • RBW 100 kHz • VBW 300 kHz	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm
M2 1 M3 1 M4 1 Spectrum 1 Ref Level 17.60 dBn Att 30 dE SGL Count 100/100 1Pk Max 10 dBm 10 dBm 10 dBm -10 dBm	2.4 GHz 2.39 GHz 2.3496 GHz Band Edge	-55.15 dBr -56.65 dBr -51.18 dBr • NVNT BLI • RBW 100 kHz • VBW 300 kHz	m m E 2480 Mode A	uto FFT	nt1 Ref	2.479	-5.45 dBm

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-60 dBm

-70 dBm -80 dBm CF 2.48 GHz

Span 8.0 MHz



	vel 1		Off 1 7 60 1							
SGL Co		30 d		3 👄 RBW 100 kH 5 👄 VBW 300 kH		Ande A	uto FFT			
	unt 1	000/100			,.	iouc A	atorri			
1Pk M	ах									
						M1	[1]			-5.06 dBm
10 dBm					<u> </u>					975000 GHz
) d8 m-					<u> </u>	IM12	2[1]			-54.36 dBm 350000 GHz
T.						1		1		
-10 dBn	ι 				+					
-20 dBn										
20 001		1 -25.44								
30 dBn		1 2011			<u> </u>					
-40 dBn	ד י				<u> </u>					
nab Oz-	12	M4	M3		<u> </u>					
	Mar Mar	-MANNA	In alount years when when the	multimanner	queinstice	marcas	in physical per	nountry	republic of the second	mark war an an other
60 dBn	+-י				+		-			
-70 dBn										
-70 abri										
-80 dBn	1 <u> </u>							_		
Start 2	.476	GHz		100	1 pts				Stop	2.576 GHz
larker										
Туре	Ref		X-value	Y-value		Funct	ion 📃	Fun	ction Resul	t
M1 M2		1	2.47975 GH: 2.4835 GH:							
M2 M3		1	2.4835 GH2 2.5 GH2							
M4		1	2.49 GH;							

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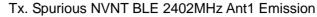


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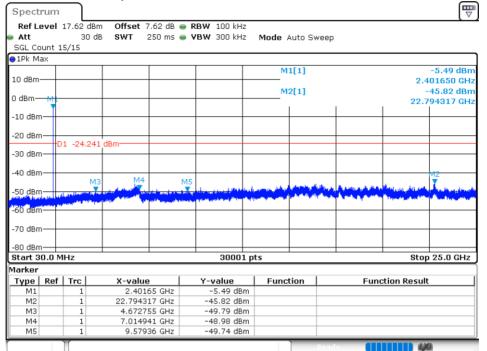
8.5 CONDUCTED RF SPURIOUS EMISSION

0.0 00	NDUCI	ED RF SFURIOUS E	INISSICIA			
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant 1	-41.58	-20	Pass
NVNT	BLE	2440	Ant 1	-40.35	-20	Pass
NVNT	BLE	2480	Ant 1	-40.6	-20	Pass
	👄 Att	rum evel 17.62 dBm Offset 7.62 30 dB SWT 18.9 punt 100/100 ax				-4.24 dBm 07090 GHz
	-80 dBm					
	II CE 2 40	D2 GHz	30)001 pts	Sna	n 1.5 MHz

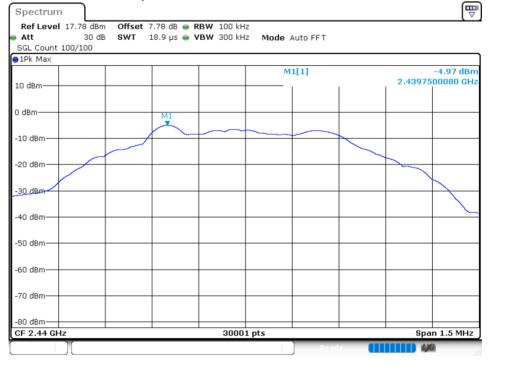




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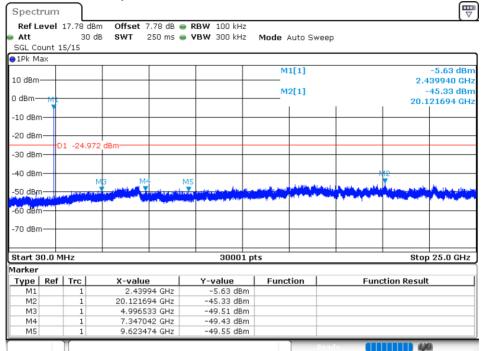




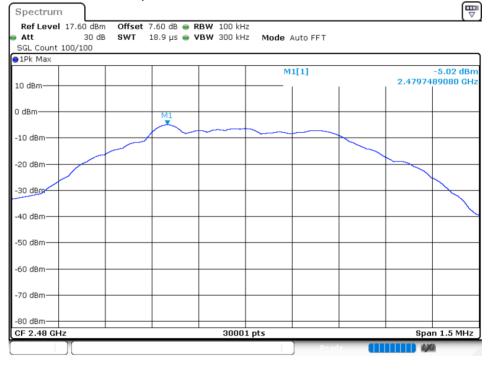




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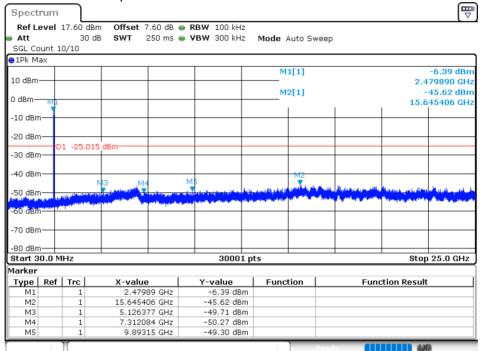




Tx. Spurious NVNT BLE 2480MHz Ant1 Emission

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END OF REPORT