

RADIO TEST REPORT FCC ID: ZSW-30-106

Product:	Mobile Phone
Trade Mark:	Bmobile
Model No.:	BL60
Family Model:	BL60 Pro, BL61
Report No.:	S20121000203002
Issue Date:	30 Dec. 2020

Prepared for

b mobile HK Limited

Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New Territories; Hong Kong

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, 0755-3699 5508 Website: http://www.ntek.org.cn





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1 TEST RESULT CERTIFICATION

Applicant's name:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New Territories; Hong Kong
Manufacturer's Name:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung;New Territories; Hong Kong
Product description	
Product name:	Mobile Phone
Model and/or type reference:	BL60
Family Model:	BL60 Pro, BL61

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	:	10 Dec. 2020 ~30 Dec, 2020
Testing Engineer	:	(Cheng jiawen)
Technical Manager	:	Jason Chen (Jason Chen)
Authorized Signatory	:	(Jason Chen) (Alex Li)

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

 "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 Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	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%



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Mobile Phone	
Trade Mark	Bmobile	
FCC ID	ZSW-30-106	
Model No.	BL60	
Family Model	BL60 Pro, BL61	
Model Difference	All the model are the same circuit and RF module, except the Model names.	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK	
Number of Channels	40 Channels	
Antenna Type	PIFA Antenna	
Antenna Gain	1.26 dBi	
Power supply	DC 3.8V/3000mAh from battery or DC 5V from Adapter.	
Adapter	Input: AC 120-240V~50/60Hz 0.15A Output: DC 5.0V1A	
HW Version	Bmobile_BL60_HW_V1.0	
SW Version	Bmobile_BL60_OM_LTM_V001	

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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. The dialing commands(*#*#3646633#*#*) to enter into the engineer mode, the power level is the software default value.



Revision History

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Report No.	Version	Description	Issued Date
S20121000203002	Rev.01	Initial issue of report	30 Dec, 2020



5 DESCRIPTION OF TEST MODES

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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 Cases	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps		
	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps		
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps		
	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		

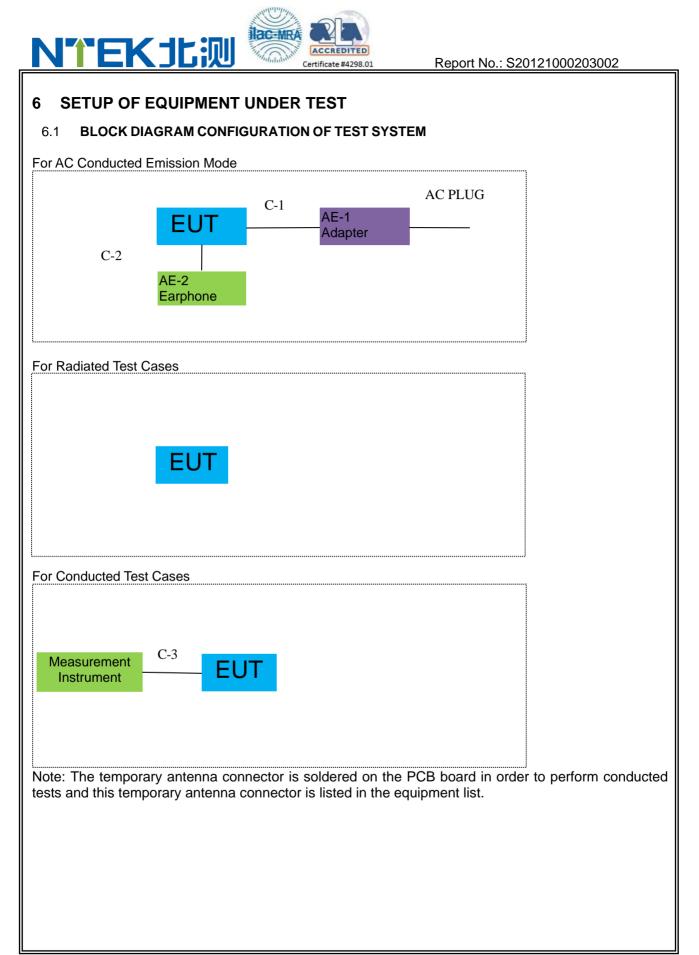
Note:

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

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	0.8m
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

vaulatic	The Conducted	lest equipment					
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	CBL6111D	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

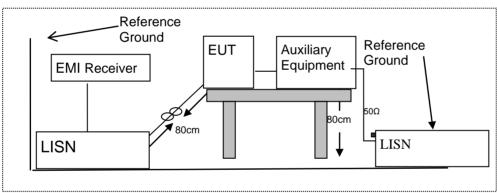
Note: 1. *Decreases with the logarithm of the frequency

- 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

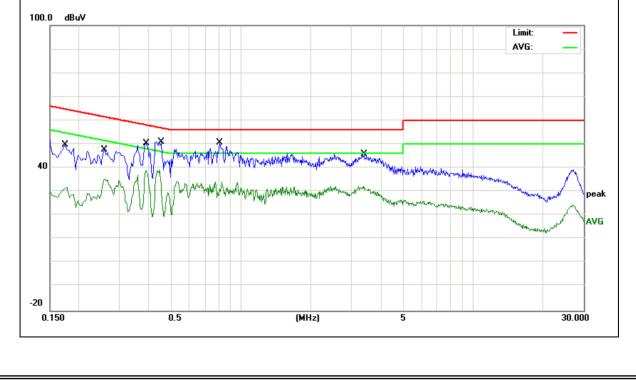
EUT:	Mobile Phone	Model Name :	BL60
Temperature:	23 ℃	Relative Humidity:	40%
Pressure:	1010hPa	Phase :	L
	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1740	40.14	9.55	49.69	64.76	-15.07	QP
0.1740	22.26	9.55	31.81	54.76	-22.95	AVG
0.2580	38.14	9.54	47.68	61.49	-13.81	QP
0.2580	25.94	9.54	35.48	51.49	-16.01	AVG
0.3899	40.86	9.55	50.41	58.06	-7.65	QP
0.3899	29.47	9.55	39.02	48.06	-9.04	AVG
0.4540	41.47	9.55	51.02	56.80	-5.78	QP
0.4540	29.58	9.55	39.13	46.80	-7.67	AVG
0.8100	41.25	9.55	50.80	56.00	-5.20	QP
0.8100	24.59	9.55	34.14	46.00	-11.86	AVG
3.4060	36.25	9.60	45.85	56.00	-10.15	QP
3.4060	22.75	9.60	32.35	46.00	-13.65	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



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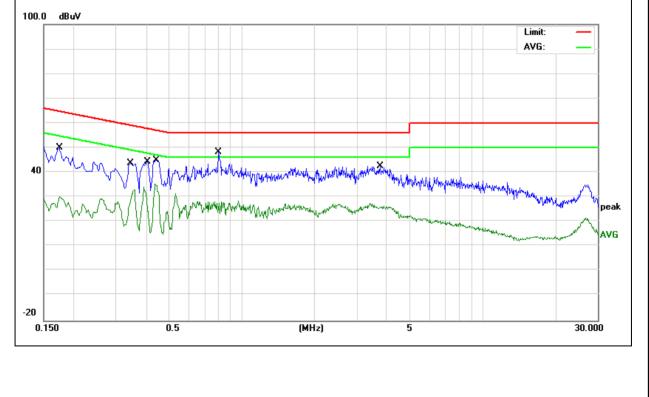
EUT:	Mobile Phone	Model Name :	BL60
Temperature:	23 ℃	Relative Humidity:	40%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1740	40.64	9.55	50.19	64.76	-14.57	QP
0.1740	20.62	9.55	30.17	54.76	-24.59	AVG
0.3460	34.23	9.53	43.76	59.06	-15.30	QP
0.3460	19.89	9.53	29.42	49.06	-19.64	AVG
0.4060	34.84	9.54	44.38	57.73	-13.35	QP
0.4060	22.99	9.54	32.53	47.73	-15.20	AVG
0.4420	35.34	9.54	44.88	57.02	-12.14	QP
0.4420	25.84	9.54	35.38	47.02	-11.64	AVG
0.7980	38.57	9.54	48.11	56.00	-7.89	QP
0.7980	21.81	9.54	31.35	46.00	-14.65	AVG
3.7580	33.10	9.59	42.69	56.00	-13.31	QP
3.7580	17.69	9.59	27.28	46.00	-18.72	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



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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 FOC Fait 13.203, Restricted bands					
MHz	MHz	GHz			
16.42-16.423	399.9-410	4.5-5.15			
16.69475-16.69525	608-614	5.35-5.46			
16.80425-16.80475	960-1240	7.25-7.75			
25.5-25.67	1300-1427	8.025-8.5			
37.5-38.25	1435-1626.5	9.0-9.2			
73-74.6	1645.5-1646.5	9.3-9.5			
74.8-75.2	1660-1710	10.6-12.7			
123-138	2200-2300	14.47-14.5			
149.9-150.05	2310-2390	15.35-16.2			
156.52475-156.52525	2483.5-2500	17.7-21.4			
156.7-156.9	2690-2900	22.01-23.12			
162.0125-167.17	3260-3267	23.6-24.0			
167.72-173.2	3332-3339	31.2-31.8			
240-285	3345.8-3358	36.43-36.5			
322-335.4	3600-4400	(2)			
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358			

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)

	Frequency(MHz)	Class B (dBuV/m) (at 3M)		
Fiequency(i		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.



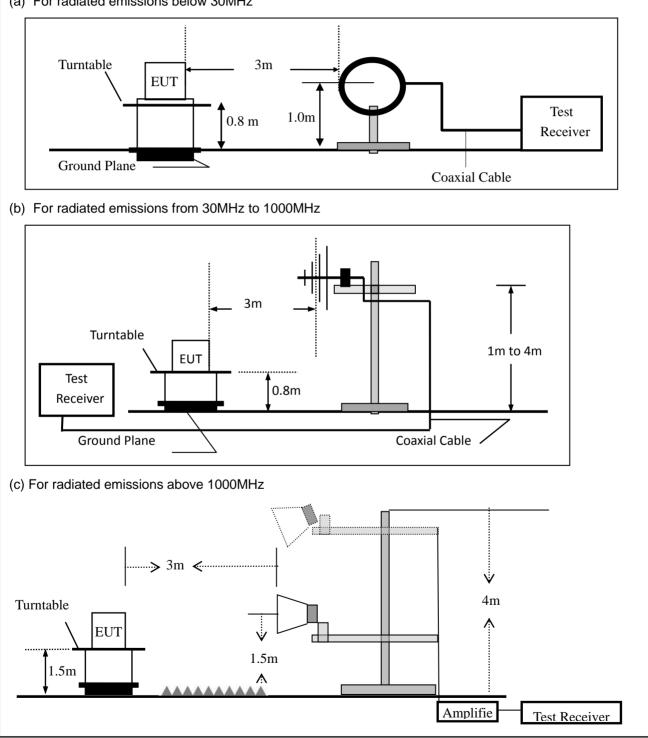
7.2.3 Measuring Instruments

N

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

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz



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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 t	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	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

∎ S	purious l	Emission	below	30MHz	(9KHz to	30MHz)
-----	-----------	----------	-------	-------	----------	--------

EUT:	Mobile Phone	Model No.:	BL60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng jiawen

Freq.	Ant.Pol.	Ant.Pol. Emission Level(dBuV/m) Limit 3m(dBuV/m)			m(dBuV/m)	Over	r(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	l, and the worst result was repo	rt as below:

EUT:	Mobile Phone	Model Name :	BL60	
Temperature:	24 ℃	Relative Humidity:	55%	
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)	(dB) (dBuV/m) (dBuV/n		(dB)	
V	32.4059	13.33	17.69	31.02	40.00	-8.98	QP
V	84.7018	19.19	8.87	28.06	40.00	-11.94	QP
V	93.4402	18.29	10.36	28.65	43.50	-14.85	QP
V	153.2004	15.41	11.79	27.20	43.50	-16.30	QP
V	281.0075	13.00	15.67	28.67	46.00	-17.33	QP
V	601.4265	11.22	21.74	32.96	46.00	-13.04	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	97.7983	18.95	10.52	29.47	43.50	-14.03	QP
Н	152.1297	11.11	11.84	22.95	43.50	-20.55	QP
Н	263.8190	13.61	14.52	28.13	46.00	-17.87	QP
Н	504.7062	14.60	20.65	35.25	46.00	-10.75	QP
Н	552.8832	14.22	22.54	36.76	46.00	-9.24	QP
H Remark	625.0779	10.96	22.30	33.26	46.00	-12.74	QP
72.0 dB	h Level= Meter R					Limit: Margin:	

6



EUT:	Mahila	Phone	``	Madal		BL60					
		Phone		Model No.:							
emperature:	emperature: 20 °C			Relative Humidity:			48%				
est Mode:	Mode2	2/Mode3	/Mode4	Test By	/:	Cheng	jiawen				
Frequency	Read	Cable	Antenna	Preamp	Emission	Limits	Margin				
	Level	loss	Factor	Factor	Level			Remar	k Comment		
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
400.4	00.00			•	Hz)(GFSK)		40.04	DI.) (a sti a a l		
4804	66.66	5.21	35.59	44.30	63.16	74.00	-10.84	Pk	Vertical		
4804	46.64	5.21	35.59	44.30	43.14	54.00	-10.86	AV	Vertical		
7206	65.62	6.48	36.27	44.60	63.77	74.00	-10.23	Pk	Vertical		
7206	50.17	6.48	36.27	44.60	48.32	54.00	-5.68	AV	Vertical		
4804	70.34	5.21	35.55	44.30	66.80	74.00	-7.20	Pk	Horizontal		
4804	50.41	5.21	35.55	44.30	46.87	54.00	-7.13	AV Pk	Horizontal		
7206	66.66	6.48	36.27	44.52	64.89	74.00			Horizontal		
7206	43.83	6.48	36.27	44.52	42.06	54.00	-11.94	AV	Horizontal		
Mid Channel (2440 MHz)(GFSK)Above 1G											
4880	65.1	5.21	35.66	44.20	61.77	74.00	-12.23	Pk	Vertical		
4880	47.87	5.21	35.66	44.20	44.54	54.00	-9.46	AV	Vertical		
7320	62.76	7.10	36.50	44.43	61.93	74.00	-12.07	Pk	Vertical		
7320	45.69	7.10	36.50	44.43	44.86	54.00	-9.14	AV	Vertical		
4880	64	5.21	35.66	44.20	60.67	74.00	-13.33	Pk	Horizontal		
4880	48.83	5.21	35.66	44.20	45.50	54.00	-8.50	AV	Horizontal		
7320	67.7	7.10	36.50	44.43	66.87	74.00	-7.13	Pk	Horizontal		
7320	47.98	7.10	36.50	44.43	47.15	54.00	-6.85	AV	Horizontal		
		F	ligh Channe	el (2480 M	Hz)(GFSK)	Above 1G					
4960	63.91	5.21	35.52	44.21	60.43	74.00	-13.57	Pk	Vertical		
4960	45.94	5.21	35.52	44.21	42.46	54.00	-11.54	AV	Vertical		
7440	65.3	7.10	36.53	44.60	64.33	74.00	-9.67	Pk	Vertical		
7440	45	7.10	36.53	44.60	44.03	54.00	-9.97	AV	Vertical		
4960	63.18	5.21	35.52	44.21	59.70	74.00	-14.30	Pk	Horizontal		
4960	46.06	5.21	35.52	44.21	42.58	54.00	-11.42	AV	Horizontal		
7440	66.88	7.10	36.53	44.60	65.91	74.00	-8.09	Pk	Horizontal		
7440	47.16	7.10	36.53	44.60	46.19	54.00	-7.81	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



 Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz EUT: Mobile Phone Model No.: BL60 											
EUT:		Mobile Phone			Dael No.:		BL60)			
Temperature	e: 20 ℃			Re	elative Humidit	:y:	48%				
Test Mode:	Mode2/	Mode4		Те	st By:		Cher	ng jiawen			
Frequency	Meter Reading	Cable Loss	Antenna Factor	Pream Facto		Lim	nits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре		
GFSK											
2310.00	73.75	2.97	27.80	43.80	60.72	7	4	-13.28	Pk	Horizontal	
2310.00	51.5	2.97	27.80	43.80	38.47	5	4	-15.53	AV	Horizontal	
2310.00	69.06	2.97	27.80	43.80	56.03	7	4	-17.97	Pk	Vertical	
2310.00	59.23	2.97	27.80	43.80	46.20	5	4	-7.80	AV	Vertical	
2390.00	69.69	3.14	27.21	43.80	56.24	7	4	-17.76	Pk	Vertical	
2390.00	48.87	3.14	27.21	43.80	35.42	5	4	-18.58	AV	Vertical	
2390.00	71.2	3.14	27.21	43.80	57.75	7	4	-16.25	Pk	Horizontal	
2390.00	48.09	3.14	27.21	43.80	34.64	5	4	-19.36	AV	Horizontal	
2483.50	69.99	3.58	27.70	44.00) 57.27	7	4	-16.73	Pk	Vertical	
2483.50	50.42	3.58	27.70	44.00	37.70	5	4	-16.30	AV	Vertical	
2483.50	69.99	3.58	27.70	44.00) 57.27	7	4	-16.73	Pk	Horizontal	
2483.50	49.76	3.58	27.70	44.00) 37.04	5	4	-16.96	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



	Emission ir	Resinc	leu banu s						
EUT:	Mobile	Phone		Model	No.:	BL60			
Temperature	: 20 ℃			Relativ	ve Humidity	: 48%			
Test Mode:	Mode2	/ Mode3	/ Mode4	Test B	sy:	Cher	g jiawen		
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	62.58	4.04	29.57	44.70	51.49	74	-22.51	Pk	Vertical
3260	52.24	4.04	29.57	44.70	41.15	54	-12.85	AV	Vertical
3260	66.68	4.04	29.57	44.70	55.59	74	-18.41	Pk	Horizontal
3260	48.61	4.04	29.57	44.70	37.52	54	-16.48	AV	Horizontal
3332	67.14	4.26	29.87	44.40	56.87	74	-17.13	Pk	Vertical
3332	47.78	4.26	29.87	44.40	37.51	54	-16.49	AV	Vertical
3332	66.66	4.26	29.87	44.40	56.39	74	-17.61	Pk	Horizontal
3332	47.73	4.26	29.87	44.40	37.46	54	-16.54	AV	Horizontal
17797	49.67	10.99	43.95	43.50	61.11	74	-12.89	Pk	Vertical
17797	34.44	10.99	43.95	43.50	45.88	54	-8.12	AV	Vertical
17788	50.56	11.81	43.69	44.60	61.46	74	-12.54	Pk	Horizontal
17788	36.07	11.81	43.69	44.60	46.97	54	-7.03	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) \ge 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.:	BL60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng jiawen



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.:	BL60
Temperature:	20 ℃	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.:	BL60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng jiawen



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.:	BL60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng jiawen



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.:	BL60
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Cheng jiawen



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

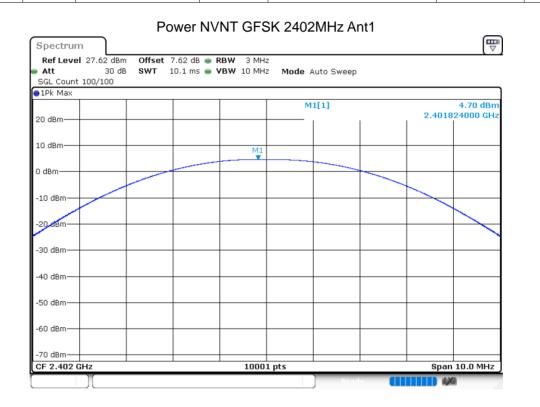
The EUT antenna is permanent attached PIFA antenna (Gain: 1.26 dBi). It comply with the standard requirement.



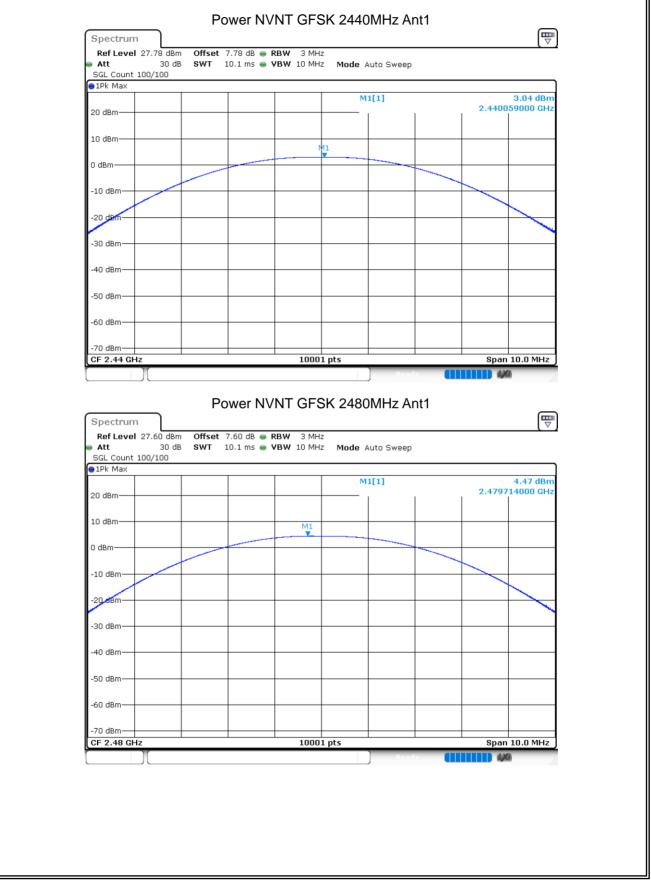
8 TEST RESULTS

8.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2402	Ant 1	4.697	30	Pass
NVNT	GFSK	2440	Ant 1	3.044	30	Pass
NVNT	GFSK	2480	Ant 1	4.471	30	Pass



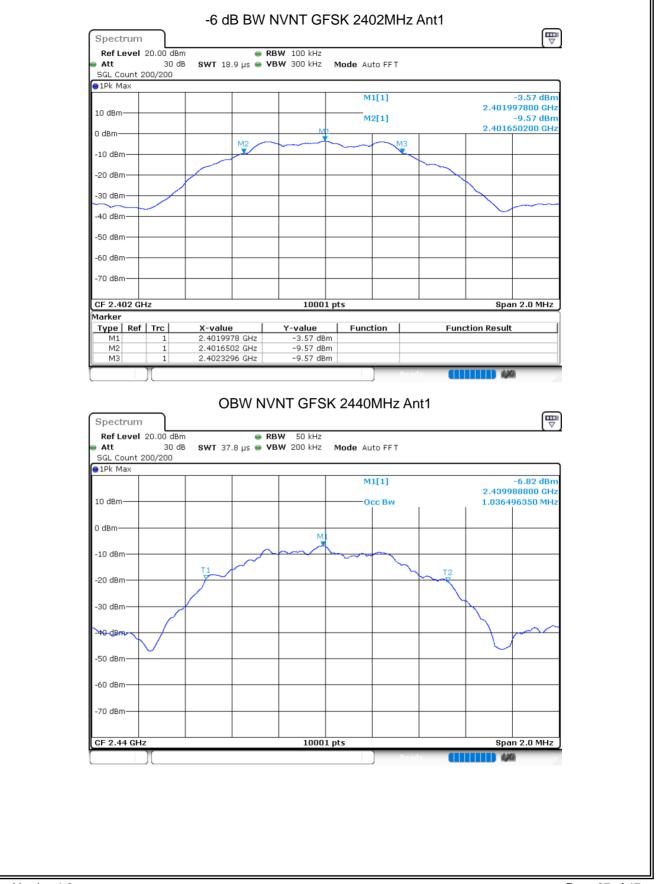






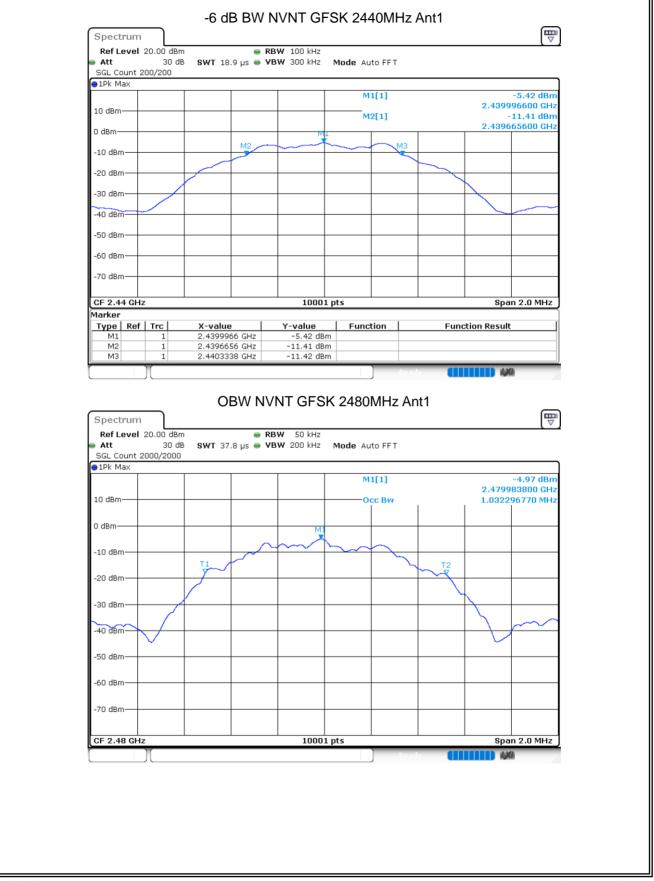
Condition	Mode	ANNEL BANDWID Frequency (MHz)	Antenna	99% OBW (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2402	Ant 1	1.0287	0.6794	0.5	Pass
NVNT	GFSK	2440	Ant 1	1.0365	0.6682	0.5	Pass
NVNT	GFSK	2480	Ant 1	1.0323	0.6816	0.5	Pass
	Spectrum Ref Leva Att SGL Coun 1Pk Max 10 dBm	21 20.00 dBm 30 dB SWT 3 t 200/200	 RBW 7.8 μs VBW 2 	200 kHz Mode A	uto FFT	-5.86 dBm 2.401964000 GHz 1.028697130 MHz	



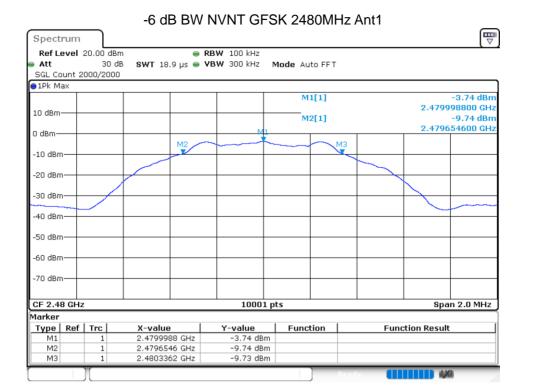


Version.1.3





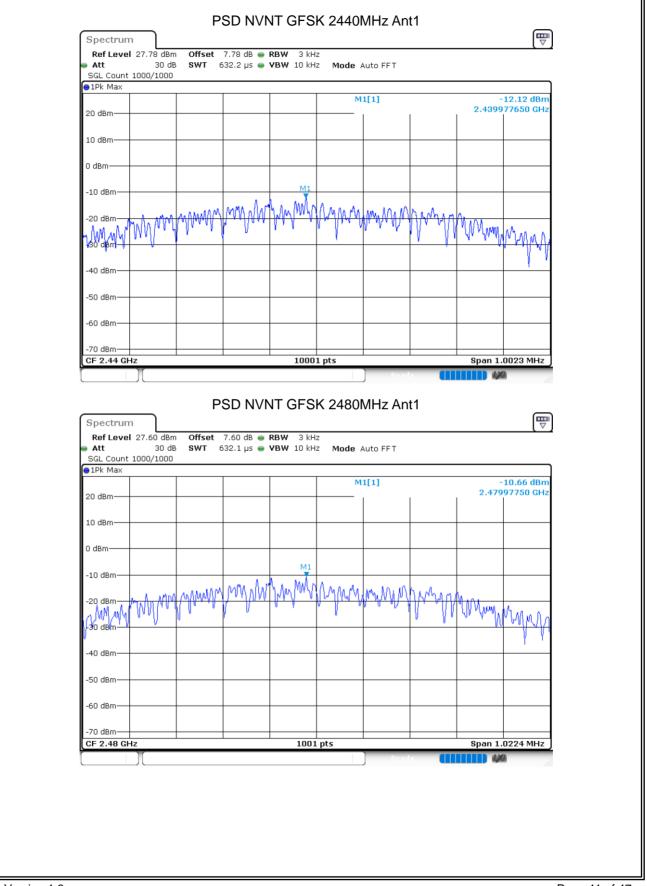




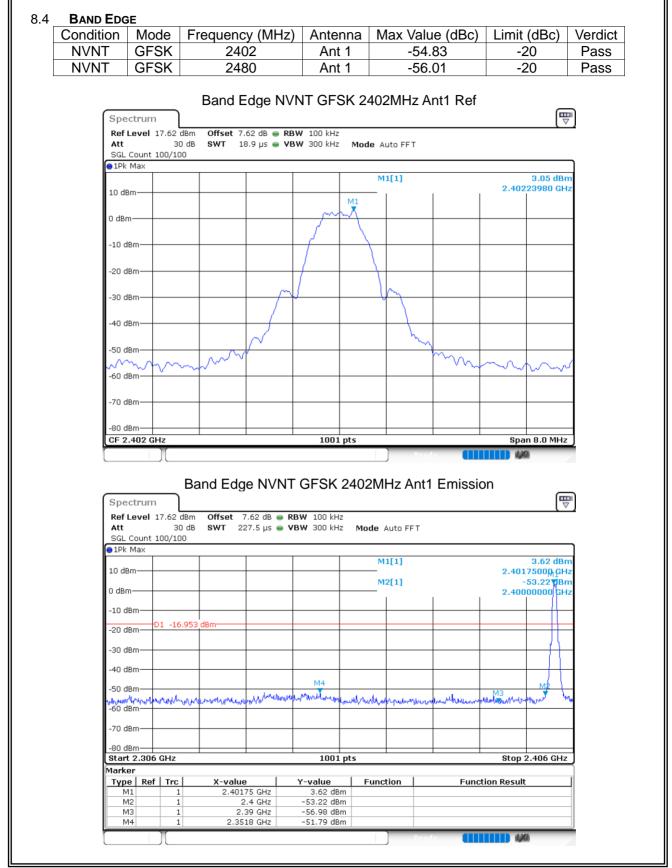


ondition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdic
NVNT	GFSK	2402	Ant 1	-10.485	(UDIII/3KHZ) 8	Pass
NVNT	GFSK	2440	Ant 1	-12.121	8	Pass
NVNT	GFSK	2480	Ant 1	-10.659	8	Pass
	🕳 Att	27.62 dBm Offset 7.62 30 dB SWT 631.9 3000/3000		Iz Mode Auto FFT M1[1] Interview M1[1] Interview <td< th=""><th>-10.49 dBm 2.401977790 GHz</th><th></th></td<>	-10.49 dBm 2.401977790 GHz	
	-70 dBm-	GHz	1000	1 pts	Span 1.0191 MHz	
)(Ready		

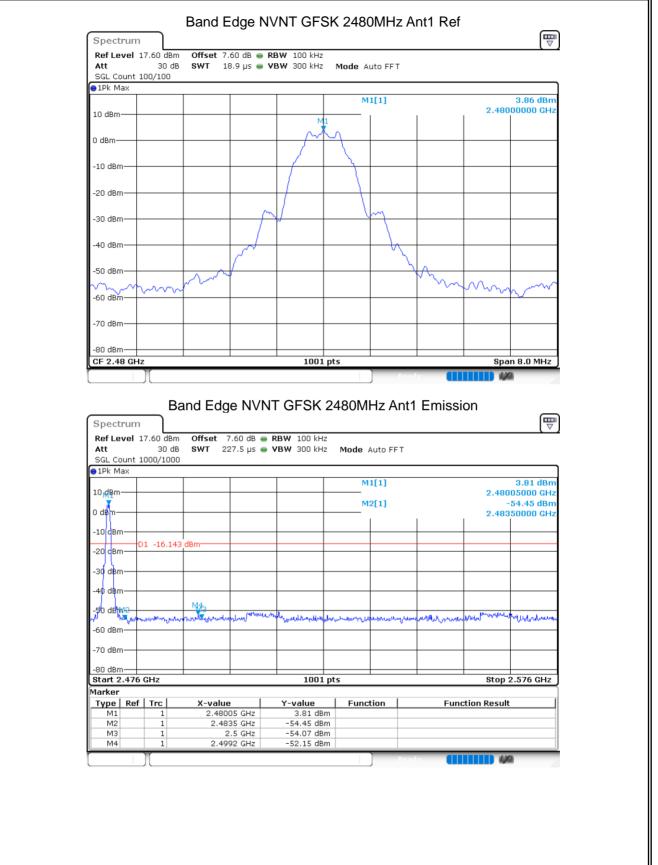








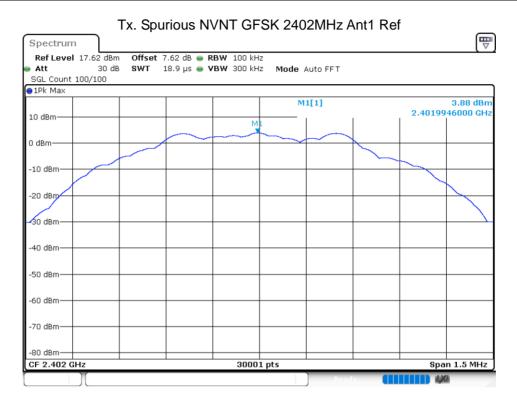




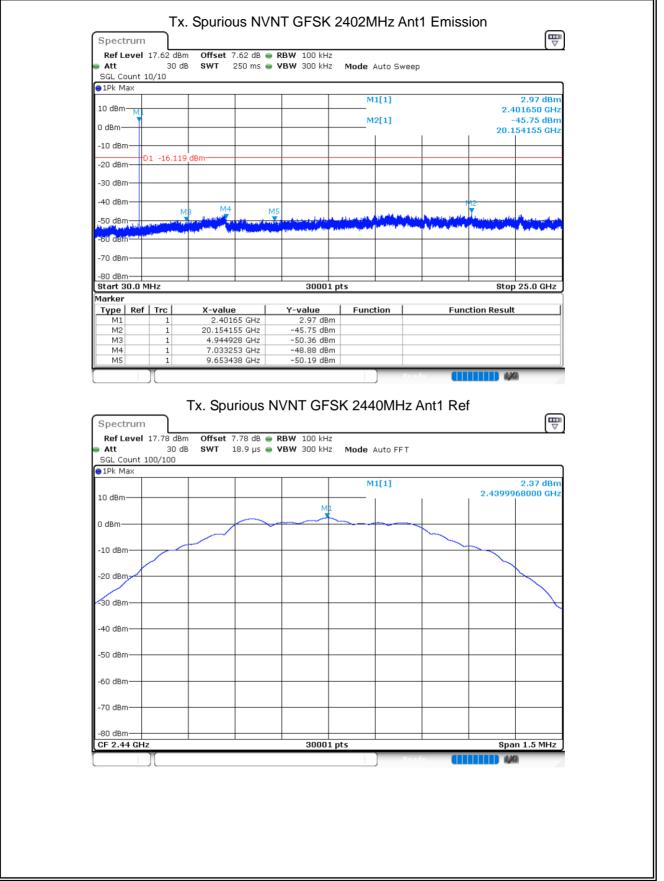


8.5 CONDUCTED RF SPURIOUS EMISSION

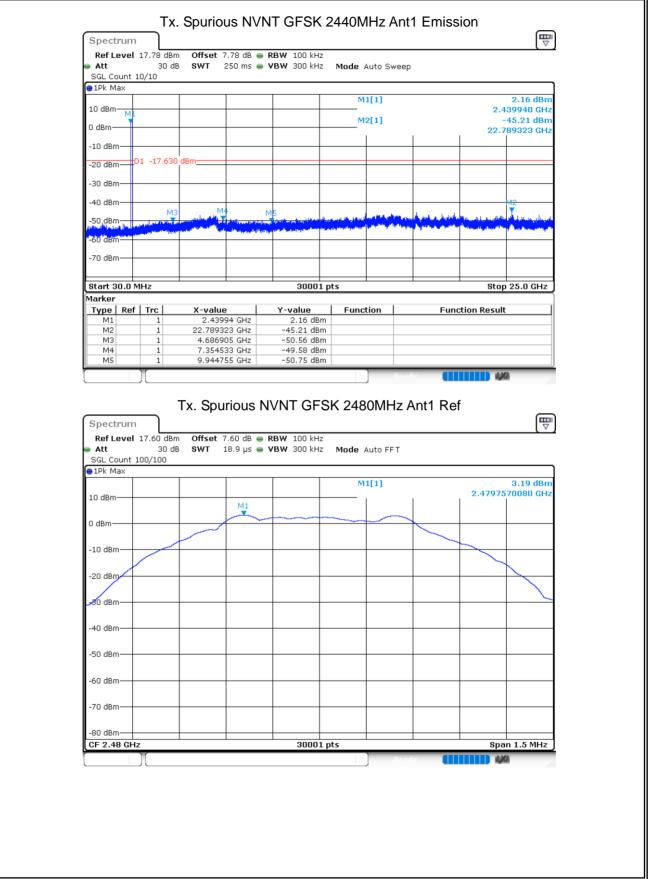
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant 1	-49.63	-20	Pass
NVNT	GFSK	2440	Ant 1	-47.58	-20	Pass
NVNT	GFSK	2480	Ant 1	-49.11	-20	Pass











Version.1.3



Att SGL C				 RBW 100 kHz VBW 300 kHz 	Mode Auto Sv	weep	
1Pk M							
o					M1[1]		2.10 dB
0 dBm	M1						2.479890 GH
dBm-					M2[1]		-45.92 dB
					1	1	17.705431 GH
.0 dBr	n —						
0 dBr	0	1 -16.8	313 dBm				
и авг	n						
0 dBr	n						
0 0.01							
40 dBr	n					1/12	
			M3 M4	M5	a second s	later Text a stand	
50 dBr		Vide State	A DESCRIPTION OF THE OWNER.		and the second second second	Street, Street, Square,	And the second
tu den	te same	¹ BALLED BALLE	Read Service States and Services	and the second			
, o a.o.	.						
70 dBr	n —						
30 dBr	_			00001			01 05 0 014
	80.0 M	IHZ		30001 p	its		Stop 25.0 GH
arker		1 - 1		1	1		
Гуре	Ref		X-value	Y-value	Function	Fund	ction Result
5.4.4		1	2.47989 GHz 17.705431 GHz				
M1					1		
M2		1					
		1 1 1	5.110563 GHz 7.34621 GHz	-49.34 dBm			

END OF REPORT

Version.1.3