

FCC Test Report

FCC ID: 2AOWKGQ3087

Product: Mobile Phone
Trade Mark: ulefone
Model Number: GQ3087
Family Model: Armor X7, Armor X7S, Armor X7E, Armor X7P, Armor X7A, Armor X7T, Armor X7 Pro, Armor X7 lite, Armor X7 Plus
Report No.: STR191125001009E

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Gotron Electronic CO.,LTD.
Address: 518, 5F, R&D building, Tsinghua Hi-Tech park, Nanshan district, Shenzhen 518057 P.R.China

Manufacturer's Name : Shenzhen Gotron Electronic CO.,LTD.
Address: 518, 5F, R&D building, Tsinghua Hi-Tech park, Nanshan district, Shenzhen 518057 P.R.China

Product description

Product name: Mobile Phone
Model and/or type reference : GQ3087
Family Model: Armor X7, Armor X7S, Armor X7E, Armor X7P, Armor X7A, Armor X7T, Armor X7 Pro, Armor X7 lite, Armor X7 Plus
FCC Part15B

Standards : ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Date of Test :
Date (s) of performance of tests: 30 Nov. 2019 ~ 15 Dec, 2019
Date of Issue : 23 Mar, 2020
Test Result : Pass

Testing Engineer : [Signature]
(Cheng Jiawen)

Technical Manager : [Signature]
(Jason Chen)

Authorized Signatory : [Signature]
(Sam Chen)

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd
 Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.
 FCC Registration Number:463705; IC Registration Number:9270A-1
 CNAS Registration Number:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone	
Trade Mark	ulefone	
Model Name	GQ3087	
Family Model	Armor X7, Armor X7S, Armor X7E, Armor X7P, Armor X7A, Armor X7T, Armor X7 Pro, Armor X7 lite, Armor X7 Plus	
Model Difference	All models are the same circuit and RF module, except the model name.	
Product Description	The EUT is a Mobile Phone.	
	Connecting I/O port:	Micro USB, Earphone
	Operation Frequency:	2.568GHz
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Power Source	DC 3.85V/4000mAh from Battery or DC 5V from USB Port.	
Adapter	Model: NB-0501000UM(UF) Input: 100-240V~50/60Hz 0.2A Output: 5.0V ---1000mA	
HW Version	P2N_01	
SW Version	Armor_X7_SH2_EEA_V10	

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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

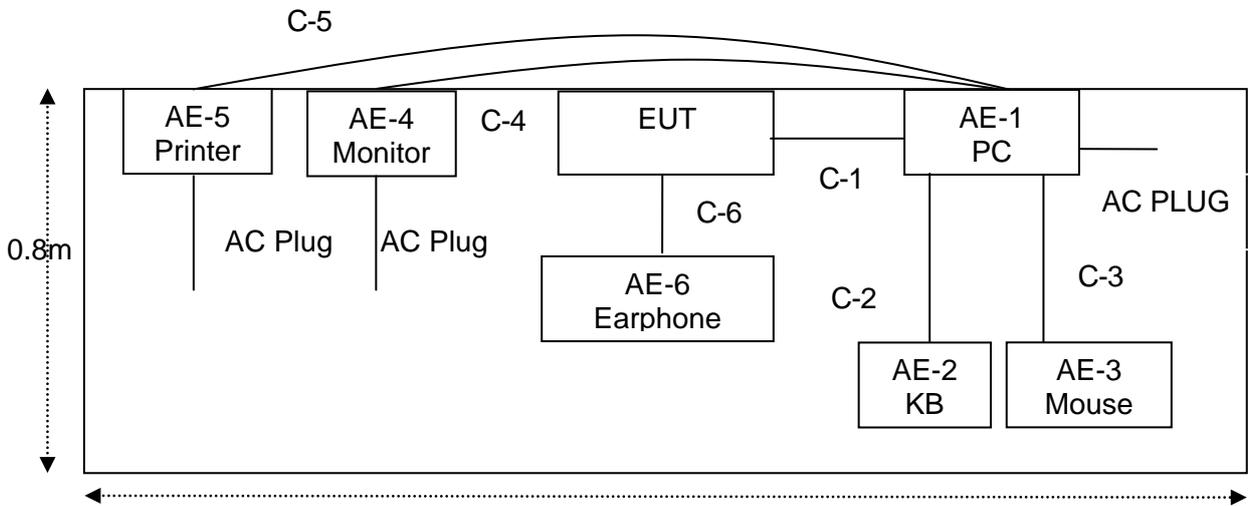
For Conducted Test	
Final Test Mode	Description
Mode 1	USB Data Transmission
Mode 2	TF card Playing
Mode 3	REC
Mode 4	FM
Mode 5	GPS (RX)

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

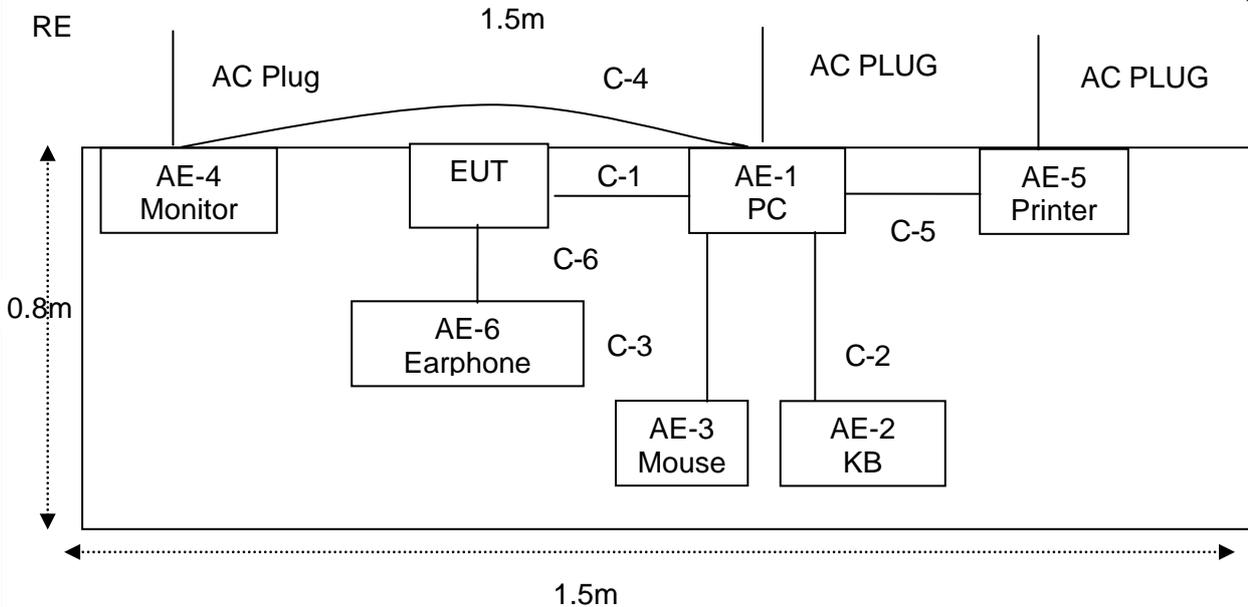
Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP

CE



RE



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	PC	DELL	FT4Y23X	N/A	Peripherals
AE-2	KB	DELL	SK-8185	N/A	Peripherals
AE-3	Mouse	DELL	MS111-P	N/A	Peripherals
AE-4	Monitor	N/A	N/A	N/A	Peripherals
AE-5	Printer	Canon	L11121E	N/A	Peripherals
AE-6	Earphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	KB Cable	NO	NO	1.2m	
C-3	Mouse Cable	NO	NO	1.2m	
C-4	HDMI Cable	YES	YES	1.0m	
C-5	USB Cable	NO	NO	1.2m	
C-6	Earphone Cable	NO	NO	1.2m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2019.05.13	2020.05.12	1 year
2	Test Receiver	R&S	ESPI	101318	2019.05.13	2020.05.12	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2019.05.13	2020.05.12	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2019.05.13	2020.05.12	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2019.04.15	2020.04.14	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2019.05.13	2020.05.12	1 year
8	Amplifier	EMC	EMC051835SE	980246	2019.08.06	2020.08.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2019.05.13	2020.05.12	1 year
10	Power Meter	DARE	RPR3006W	15100041SNO84	2019.08.06	2020.08.05	1 year
11	Power Sensor	R&S	URGQ3087-Z4	0395.1619.05	2019.05.13	2020.05.12	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year

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	2019.05.13	2020.05.12	1 year
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2019.05.13	2020.05.12	1 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

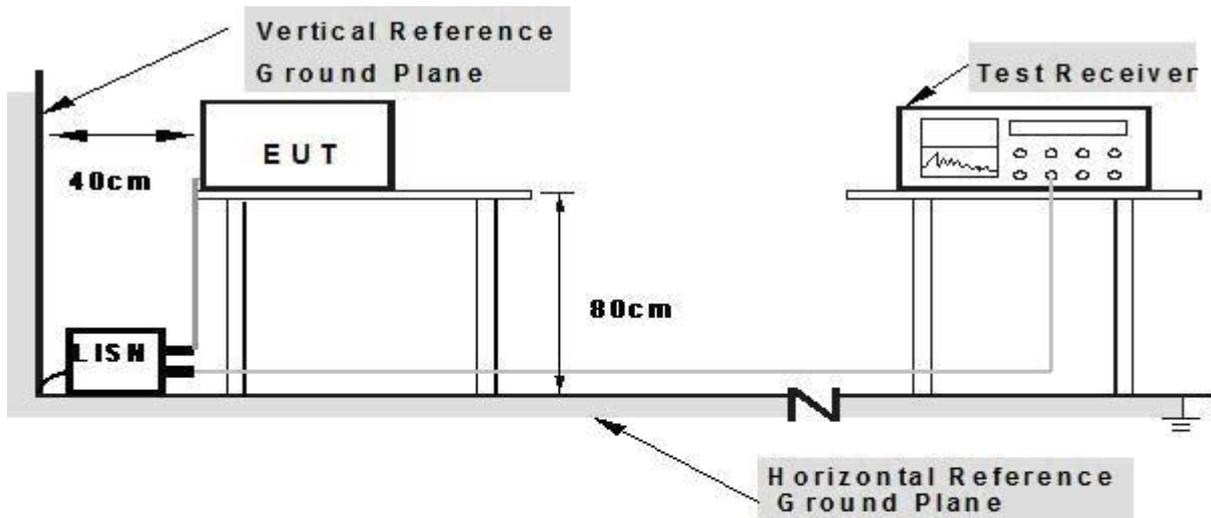
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



- Note: 1. Support units were connected to second LISN.**
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

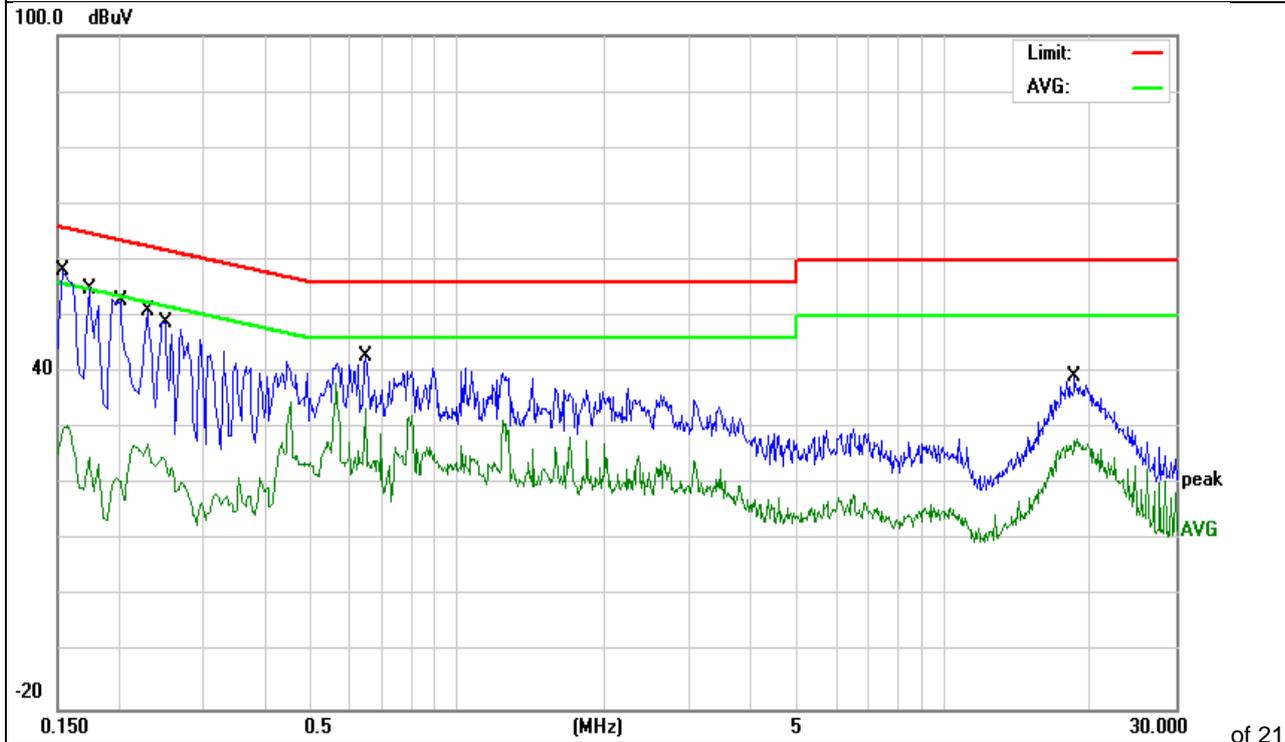
3.1.5 TEST RESULTS

EUT:	Mobile Phone	Model Name. :	GQ3087
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-12-13
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC (AC120V/60Hz)		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	48.39	9.75	58.14	65.78	-7.64	QP
0.1539	20.42	9.75	30.17	55.78	-25.61	AVG
0.1739	45.21	9.76	54.97	64.77	-9.80	QP
0.1739	15.03	9.76	24.79	54.77	-29.98	AVG
0.2020	42.89	9.76	52.65	63.52	-10.87	QP
0.2020	11.43	9.76	21.19	53.52	-32.33	AVG
0.2300	41.31	9.76	51.07	62.45	-11.38	QP
0.2300	17.55	9.76	27.31	52.45	-25.14	AVG
0.2500	39.11	9.76	48.87	61.75	-12.88	QP
0.2500	15.13	9.76	24.89	51.75	-26.86	AVG
0.6460	33.12	9.74	42.86	56.00	-13.14	QP
0.6460	23.91	9.74	33.65	46.00	-12.35	AVG
18.5499	28.94	10.18	39.12	60.00	-20.88	QP
18.5499	18.04	10.18	28.22	50.00	-21.78	AVG

Remark:

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

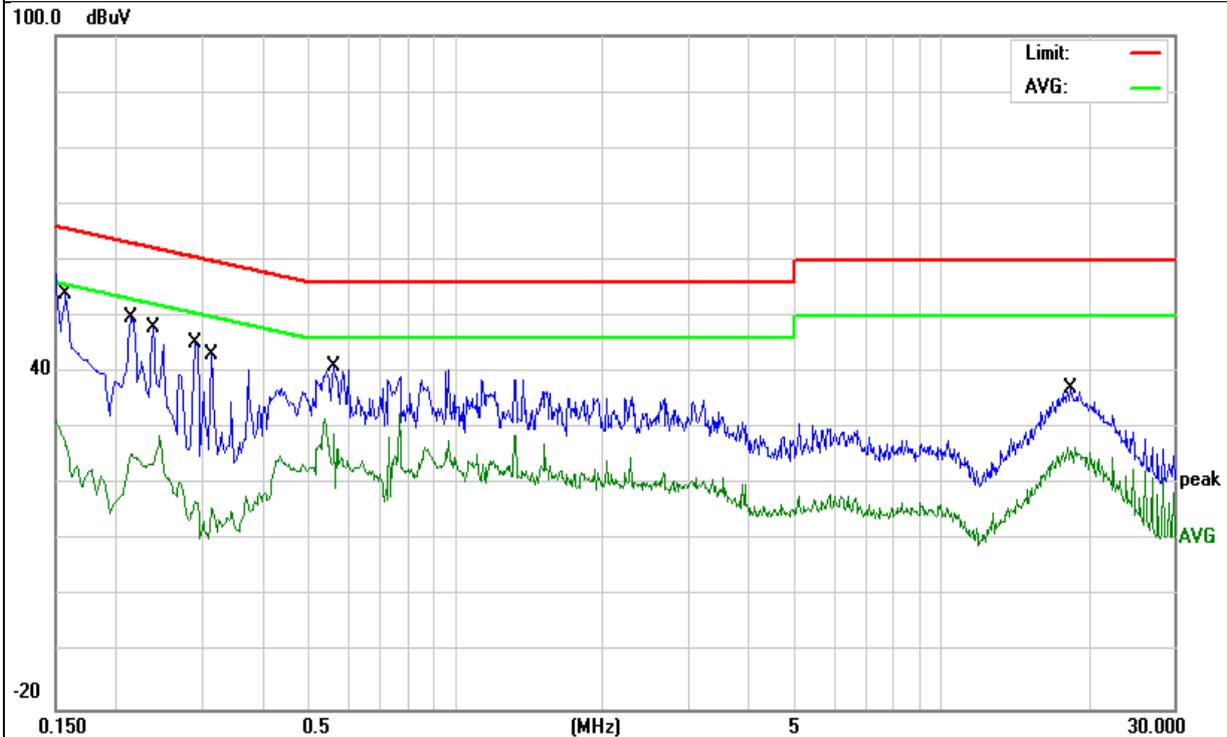


EUT:	Mobile Phone	Model Name. :	GQ3087
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-12-13
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC (AC120V/60Hz)		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	44.15	9.74	53.89	65.56	-11.67	QP
0.1580	17.29	9.74	27.03	55.56	-28.53	AVG
0.2139	39.94	9.73	49.67	63.05	-13.38	QP
0.2139	15.80	9.73	25.53	53.05	-27.52	AVG
0.2379	38.36	9.74	48.10	62.17	-14.07	QP
0.2379	13.96	9.74	23.70	52.17	-28.47	AVG
0.2899	35.63	9.74	45.37	60.52	-15.15	QP
0.2899	7.22	9.74	16.96	50.52	-33.56	AVG
0.3140	33.47	9.74	43.21	59.86	-16.65	QP
0.3140	5.97	9.74	15.71	49.86	-34.15	AVG
0.5620	31.34	9.75	41.09	56.00	-14.91	QP
0.5620	19.19	9.75	28.94	46.00	-17.06	AVG
18.3738	27.08	10.17	37.25	60.00	-22.75	QP
18.3738	16.44	10.17	26.61	50.00	-23.39	AVG

Remark:

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

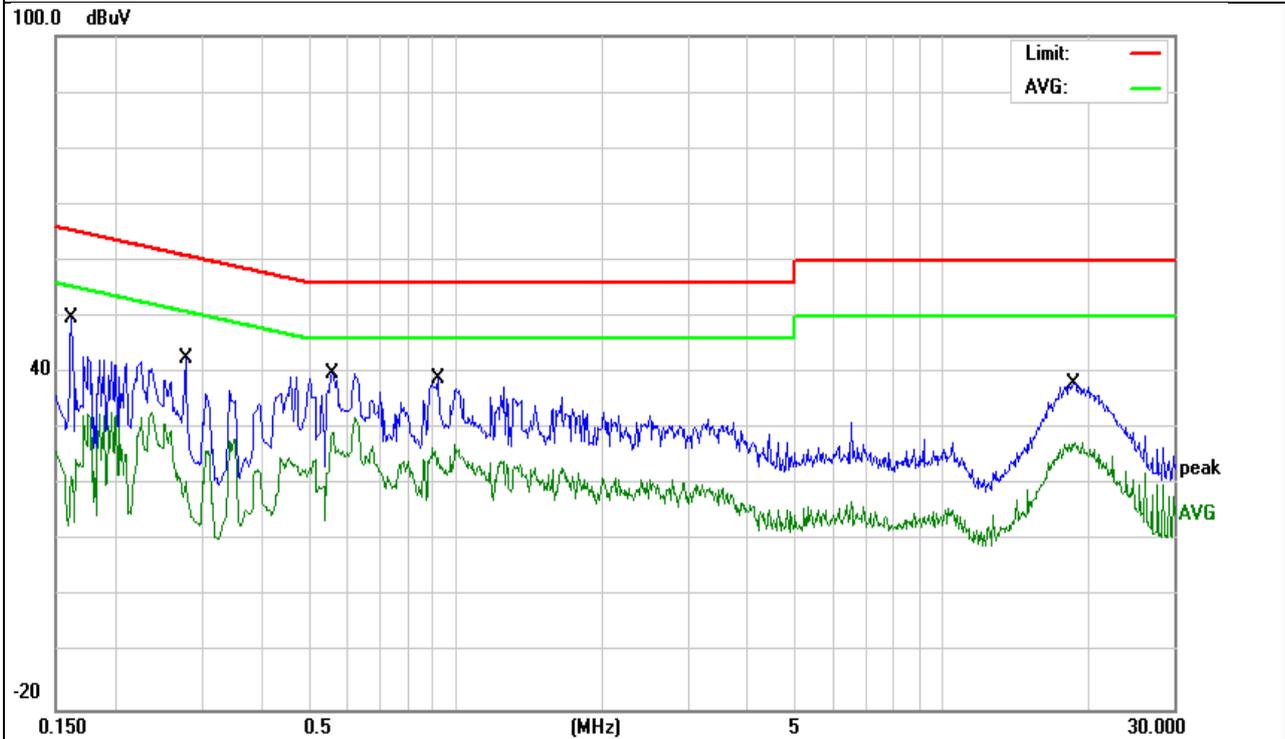


EUT:	Mobile Phone	Model Name. :	GQ3087
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-12-13
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC (AC240V/60Hz)		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	40.05	9.76	49.81	65.36	-15.55	QP
0.1620	11.68	9.76	21.44	55.36	-33.92	AVG
0.2780	32.80	9.75	42.55	60.87	-18.32	QP
0.2780	10.75	9.75	20.50	50.87	-30.37	AVG
0.5580	30.19	9.74	39.93	56.00	-16.07	QP
0.5580	19.52	9.74	29.26	46.00	-16.74	AVG
0.9220	29.19	9.74	38.93	56.00	-17.07	QP
0.9220	16.87	9.74	26.61	46.00	-19.39	AVG
18.6579	27.90	10.18	38.08	60.00	-21.92	QP
18.6579	17.34	10.18	27.52	50.00	-22.48	AVG

Remark:

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

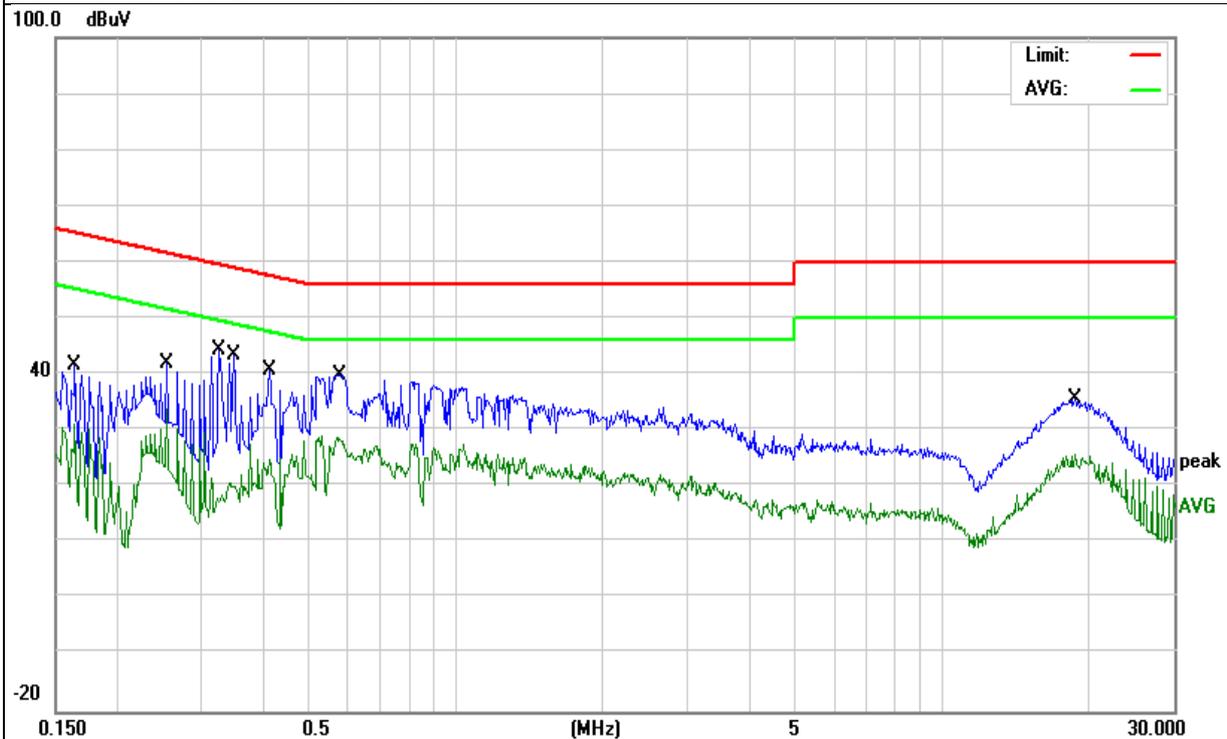


EUT:	Mobile Phone	Model Name. :	GQ3087
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2019-12-13
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC (AC240V/60Hz)		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1640	31.81	9.73	41.54	65.25	-23.71	QP
0.1640	21.57	9.73	31.30	55.25	-23.95	AVG
0.2540	32.16	9.74	41.90	61.62	-19.72	QP
0.2540	24.13	9.74	33.87	51.62	-17.75	AVG
0.3260	34.68	9.74	44.42	59.55	-15.13	QP
0.3260	8.86	9.74	18.60	49.55	-30.95	AVG
0.3499	33.79	9.74	43.53	58.96	-15.43	QP
0.3499	10.44	9.74	20.18	48.96	-28.78	AVG
0.4139	31.06	9.75	40.81	57.57	-16.76	QP
0.4139	15.20	9.75	24.95	47.57	-22.62	AVG
0.5779	30.22	9.75	39.97	56.00	-16.03	QP
0.5779	18.88	9.75	28.63	46.00	-17.37	AVG
18.7458	25.58	10.17	35.75	60.00	-24.25	QP
18.7458	15.49	10.17	25.66	50.00	-24.34	AVG

Remark:

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



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

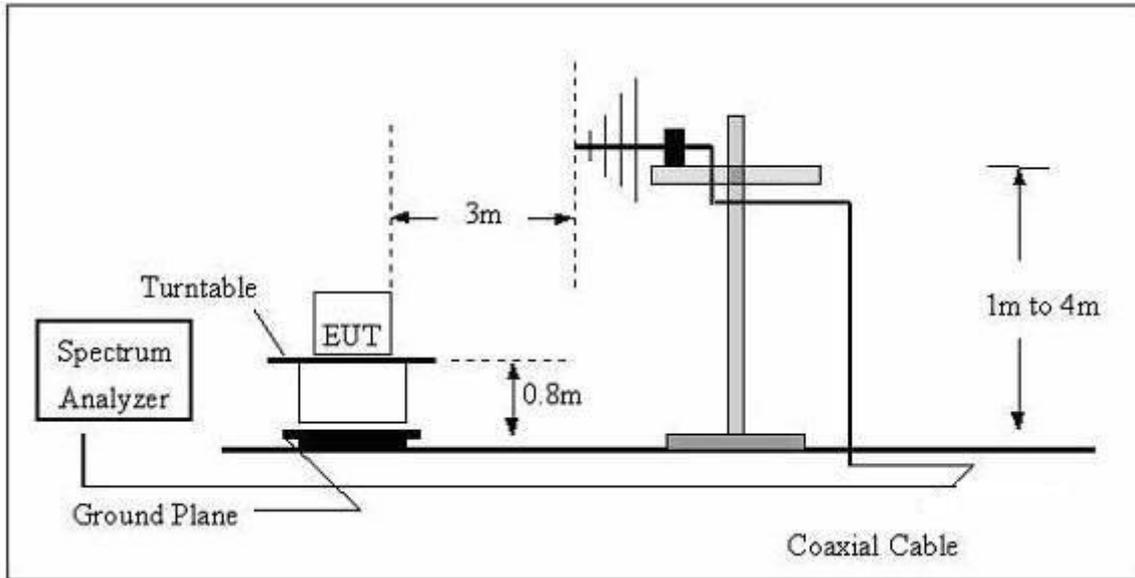
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

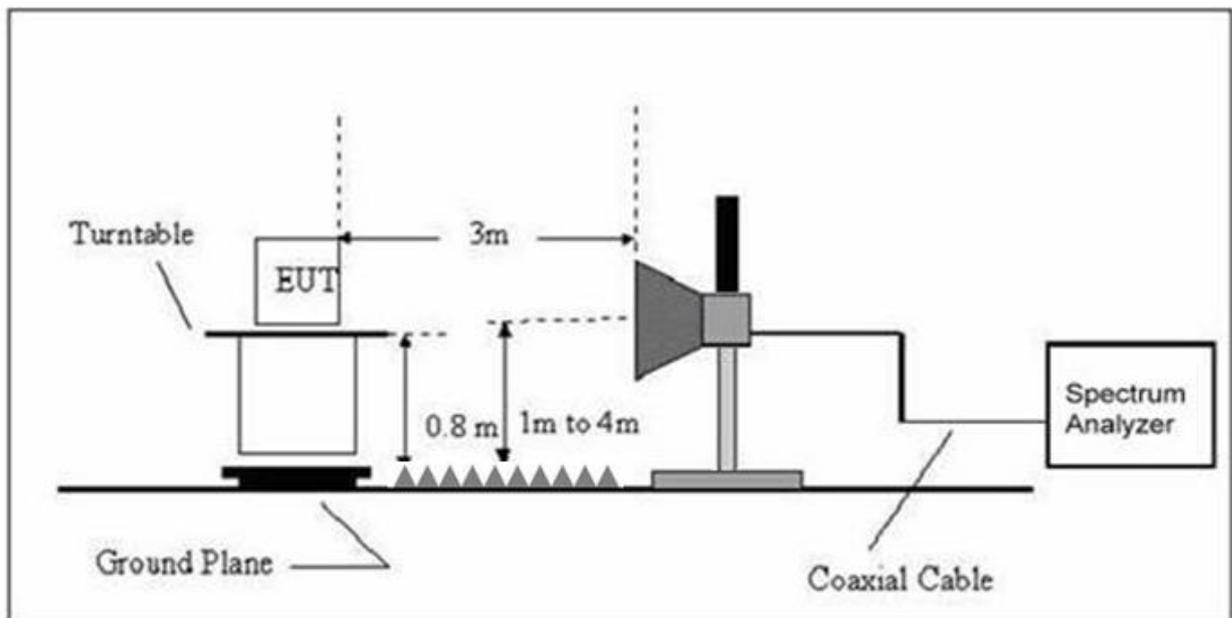
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



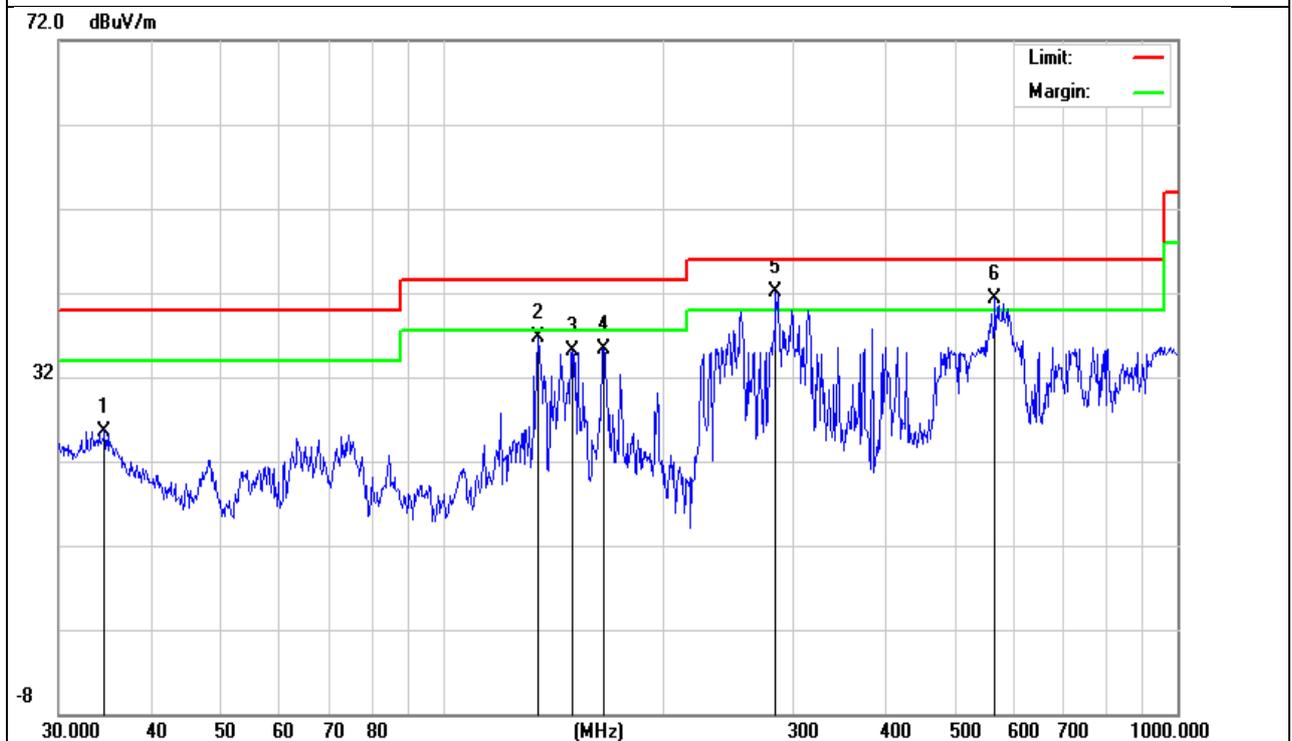
3.2.4 TEST RESULTS

TEST RESULTS (30~1000 MHz)

EUT:	Mobile Phone	Model Name:	GQ3087
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-12-13
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC (AC120V/60Hz)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	34.6385	8.74	16.86	25.60	40.00	-14.40	QP
H	135.0319	23.34	13.38	36.72	43.50	-6.78	QP
H	150.0107	22.32	12.77	35.09	43.50	-8.41	QP
H	165.4867	23.87	11.41	35.28	43.50	-8.22	QP
H	283.9791	26.16	15.89	42.05	46.00	-3.95	QP
H	564.6389	17.34	24.00	41.34	46.00	-4.66	QP

Remark:
Factor = Antenna Factor + Cable Loss - Amplifier.

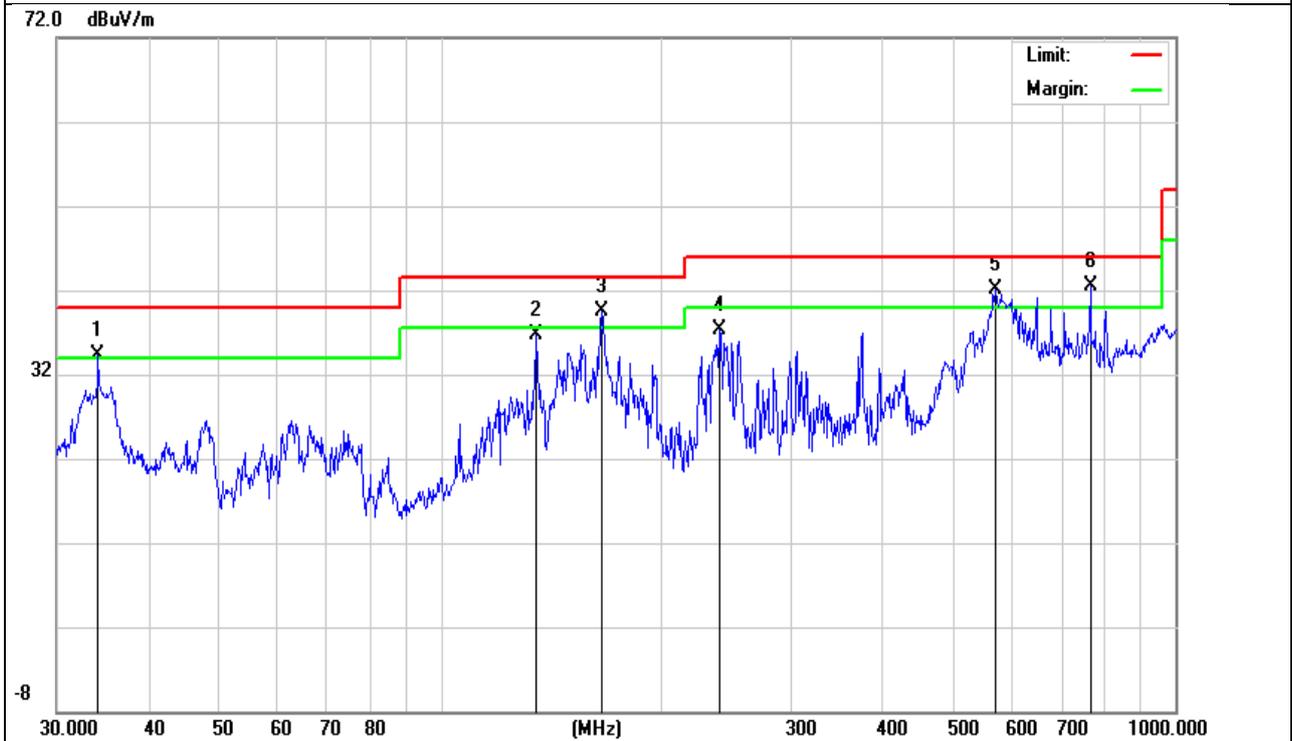


EUT:	Mobile Phone	Model Name :	GQ3087
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-12-13
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PC (AC120V/60Hz)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	34.1561	17.16	17.05	34.21	40.00	-5.79	QP
V	135.0319	23.31	13.38	36.69	43.50	-6.81	QP
V	165.4866	28.01	11.41	39.42	43.50	-4.08	QP
V	239.1473	24.55	12.78	37.33	46.00	-8.67	QP
V	568.6127	18.43	23.70	42.13	46.00	-3.87	QP
V	766.0571	14.98	27.50	42.48	46.00	-3.52	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~26500MHz)

EUT:	Mobile Phone	Model Name :	GQ3087
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2019-12-13
Test Mode :	Mode 1		
Test Power :	DC 5V from PC (AC120V/60Hz)		

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

Polar (H/V)	Frequency	Reading	Corre ct	Result	Limit	Over Limit	Remar k
	(MHz)	(dBuV/	dB/m	(dBuV/	(dBuV/	(dB)	
V	2105	39.76	-3.64	36.12	74	-37.88	peak
V	2955	41.24	-2.45	38.79	74	-35.21	peak
V	6610	-6.35	49.96	43.61	74	-30.39	peak
V	13240	-9.18	60.82	51.64	74	-22.36	peak
H	1382.5	38.82	-8.73	30.09	74	-43.91	peak
H	2955	41.29	-2.45	38.84	74	-35.16	peak
H	4825	34.8	6.2	41	74	-33	peak
H	13707.5	-9.62	61.03	51.41	74	-22.59	peak

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Note: Only the worst results data points are reported in the report.