FCC RADIO TEST REPORT
FCC ID: 2AT9T-3103

Product：	Mobile Phone
Trade Mark：	ulefone
Model Name：	GQ3103
Family Model：	Power Armor 16 Pro, Power Armor 16, Power Armor 16S, Power Armor 16E, Power Armor 16P, Power Armor 16 Plus, Power Armor 16 Lite
Report No.：	STR220705005007E

Prepared for

Shenzhen Ulefone Technology Co., Ltd.

7A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name ..... : Shenzhen Ulefone Technology Co., Ltd.

Address ..... : 7A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Manufacturer's Name ..... : Shenzhen Ulefone Technology Co., Ltd.

Address ..... : 7A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Product description

Product name ..... : Mobile Phone

Model and/or type reference : GQ3103

Family Model: Power Armor 16 Pro, Power Armor 16, Power Armor 16S, Power Armor 16E, Power Armor 16P, Power Armor 16 Plus, Power Armor 16 Lite

Sample number T220705002R003

Standards ..... : FCC Part15.225

Test procedure ..... ANSI C63.10-2013

This device described above has been tested by NTEK, 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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Date of Test .....:

Date (s) of performance of tests .....: Jul 06, 2022 ~ Aug 01, 2022

Date of Issue.....: Aug 04, 2022

Test Result.....: **Pass**

Testing Engineer : Allen Liu

(Allen Liu)

Authorized Signatory : Alex

(Alex Li)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.225)			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	Pass	
15.205(a) 15.209 15.225(abcd)	Radiated Spurious Emission	Pass	
15.225 15.215(c)	20dB Bandwidth	Pass	
15.225(e)	Frequency Tolerance	Pass	
15.203	Antenna Requirement	Pass	

NOTE:

(1) ” N/A” denotes test is not applicable in this Test Report.

1.1 TEST FACILITY

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.

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.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone
Trade Mark	ulefone
Model Name	GQ3103
Family Model	Power Armor 16 Pro, Power Armor 16, Power Armor 16S, Power Armor 16E, Power Armor 16P, Power Armor 16 Plus, Power Armor 16 Lite
Model Difference	All models are the same circuit and RF module, except the model name.
Product Description	The EUT is a Mobile Phone Operation Frequency: 13.56MHz Modulation Type: ASK Number Of Channel 1CH. Antenna Designation: Induction coil
Adapter	Model: HJ-FC038K7-US Input: 100-240V~50/60Hz 0.6A Output: 5V⎓3.0A OR 9V⎓2.0A OR 12V⎓1.5A
Battery	DC 3.85V, 9600mAh
Power supply	DC 3.85V from battery or DC 5V from Adapter.
HW Version	F7_01
SW Version	Power Armor 16 Pro_SH1_EEA_V01

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2 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.

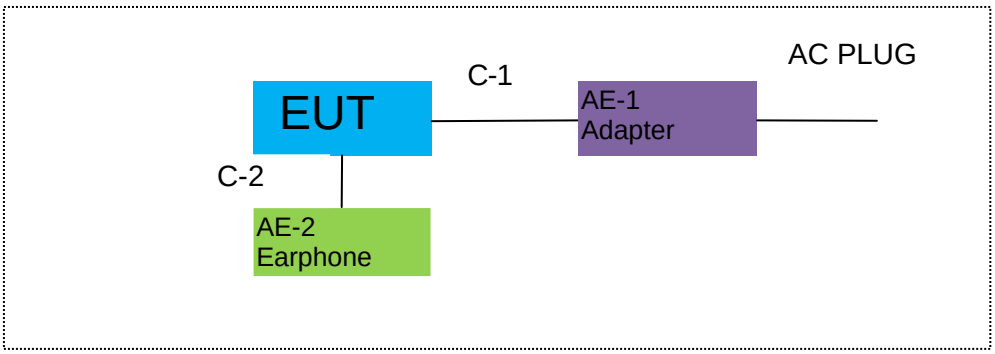
Pretest Mode	Description
Mode 1	TX-13.56MHz

For Conducted Emission	
Final Test Mode	Description
Mode 1	TX-13.56MHz

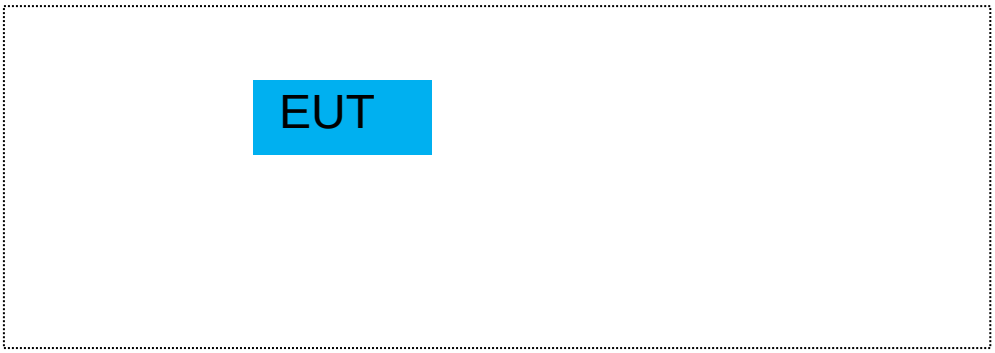
For Radiated Emission	
Final Test Mode	Description
Mode 1	TX-13.56MHz

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

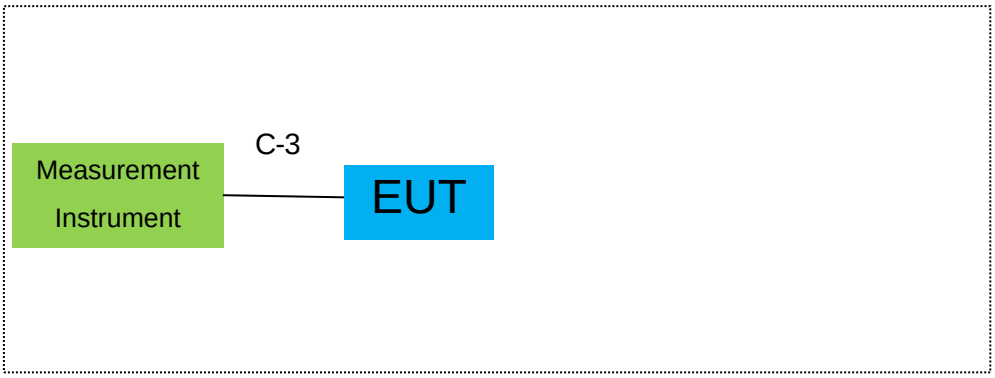
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.
2.EUT built-in battery-powered, the battery is fully-charged.

2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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	HJ-FC038K7-US	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

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

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.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.06	2023.04.05	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.06	2023.04.05	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.04.06	2023.04.05	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2022.03.31	2023.03.30	1 year
8	Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2021.11.07	2022.11.06	1 year
9	LF Cable	N/A	R-03	N/A	2020.05.11	2023.05.10	3 year
10	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2022.04.06	2023.04.05	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3year

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	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2022.04.06	2023.04.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note:

1.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

2. Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

3. ANTENNA REQUIREMENT

3.1 STANDARD 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.

3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

4. EMC EMISSION TEST

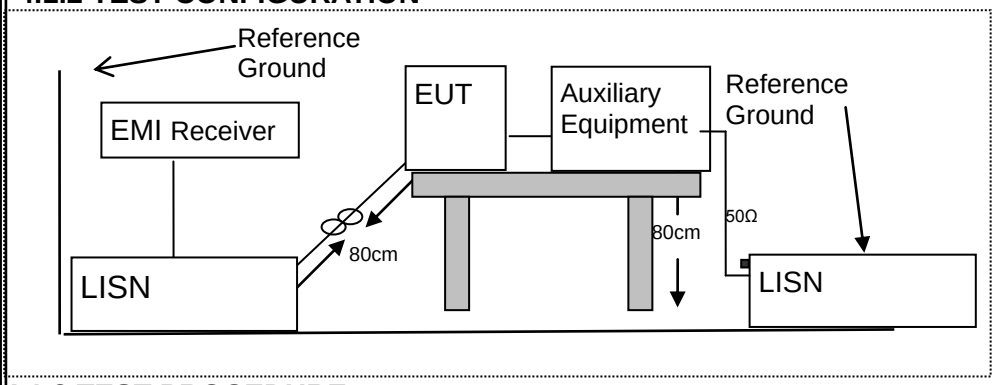
4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency(MHz)	Conducted Emission Limit	
	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.

4.1.2 TEST CONFIGURATION



4.1.3 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.

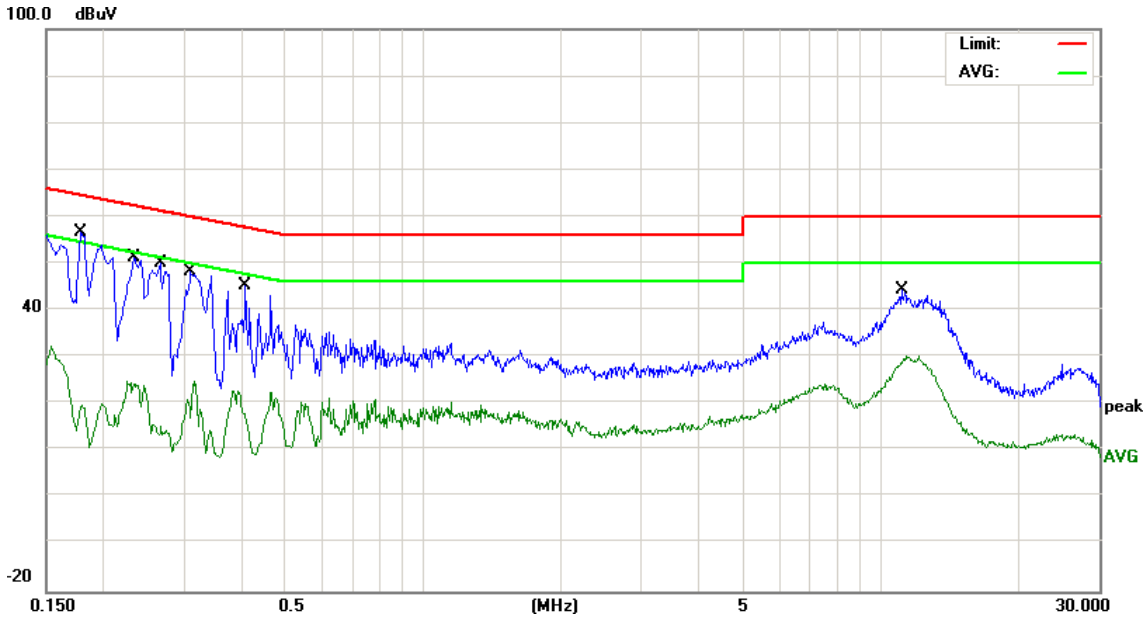
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The 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.

4.1.4 TEST RESULT

EUT：	Mobile Phone	Model Name ：	GQ3103
Temperature：	22 ℃	Relative Humidity：	57%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1779	46.97	9.61	56.58	64.58	-8.00	QP
0.1779	36.74	9.61	46.35	54.58	-8.23	AVG
0.2340	41.74	9.63	51.37	62.30	-10.93	QP
0.2340	31.62	9.63	41.25	52.30	-11.05	AVG
0.2660	40.31	9.63	49.94	61.24	-11.30	QP
0.2660	29.63	9.63	39.26	51.24	-11.98	AVG
0.3099	38.50	9.64	48.14	59.97	-11.83	QP
0.3099	28.51	9.64	38.15	49.97	-11.82	AVG
0.4097	35.60	9.66	45.26	57.65	-12.39	QP
0.4097	25.49	9.66	35.15	47.65	-12.50	AVG
11.1178	34.45	9.96	44.41	60.00	-15.59	QP
11.1178	24.19	9.96	34.15	50.00	-15.85	AVG

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

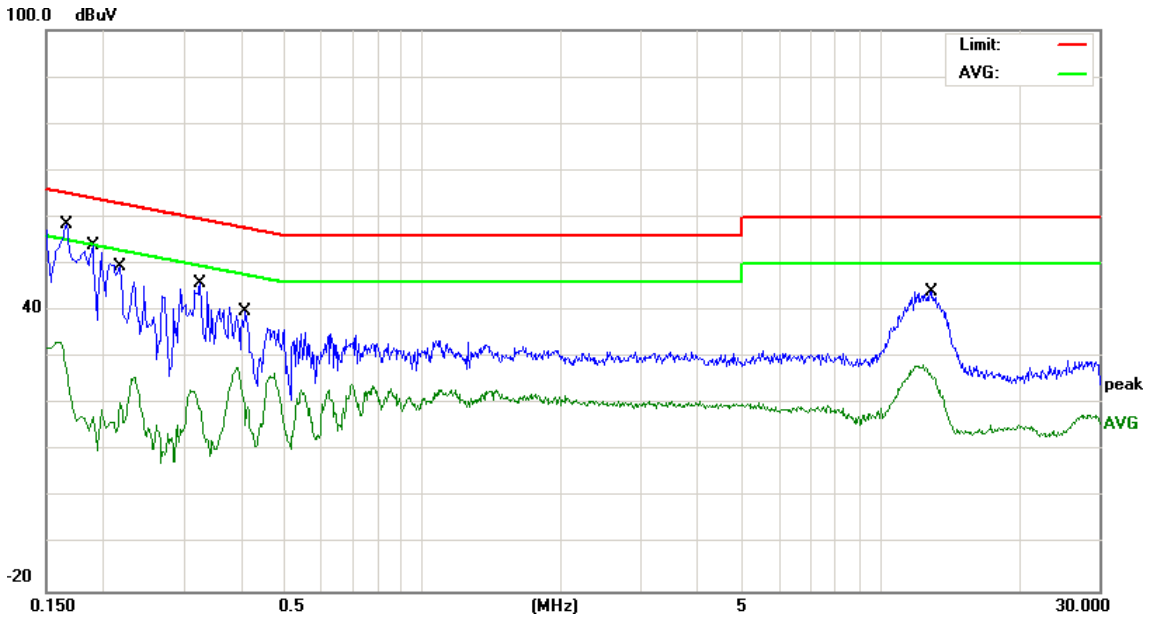


EUT：	Mobile Phone	Model Name ：	GQ3103
Temperature：	22 ℃	Relative Humidity：	57%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1660	48.94	9.65	58.59	65.15	-6.56	QP
0.1660	38.60	9.65	48.25	55.15	-6.90	AVG
0.1900	44.29	9.63	53.92	64.03	-10.11	QP
0.1900	33.73	9.63	43.36	54.03	-10.67	AVG
0.2179	39.88	9.63	49.51	62.89	-13.38	QP
0.2179	29.62	9.63	39.25	52.89	-13.64	AVG
0.3260	36.31	9.65	45.96	59.55	-13.59	QP
0.3260	25.60	9.65	35.25	49.55	-14.30	AVG
0.4097	30.18	9.67	39.85	57.65	-17.80	QP
0.4097	19.58	9.67	29.25	47.65	-18.40	AVG
12.9259	34.15	9.99	44.14	60.00	-15.86	QP
12.9259	24.03	9.99	34.02	50.00	-15.98	AVG

Remark:

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

(1) The tighter limit applies at the band edges.

(2) Emission level (dBuV/m)=20log Emission level (uV/m).

(3) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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			

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.225)

(a)The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters, equal to 124dBuV/m at 3 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, equal to 90.5dBuV/m at 3 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, equal to 80.5dBuV/m at 3 meters..

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

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

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

4.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz And above 1GHz,
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m 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; the height of the test antenna shall vary between 1 m to 4 m.
d. 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.
e. 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.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

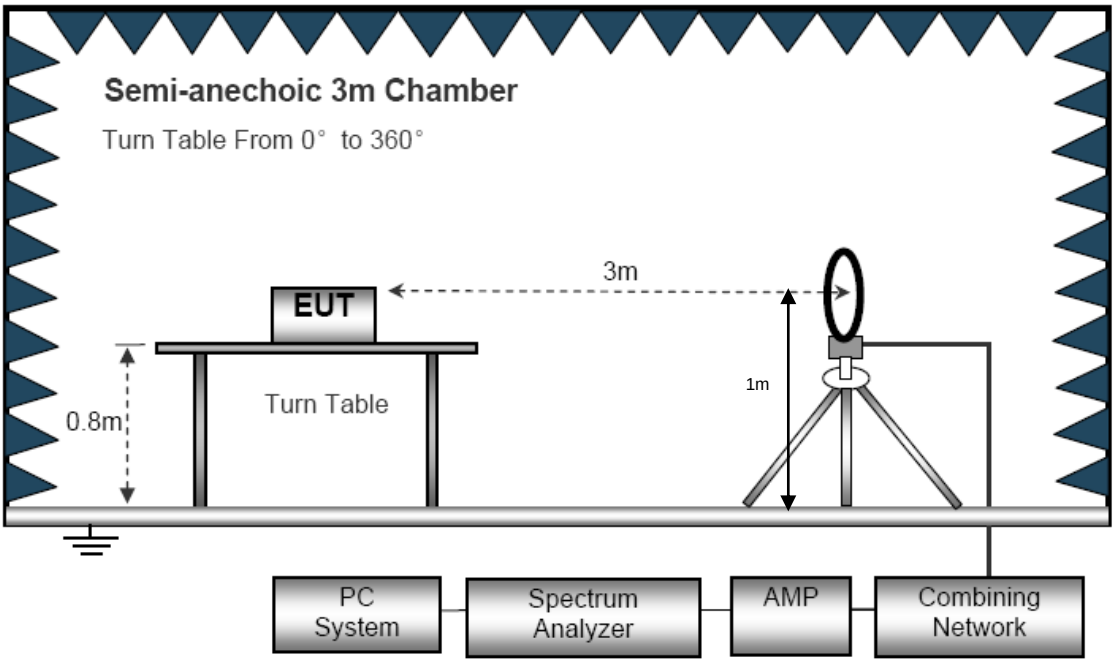
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

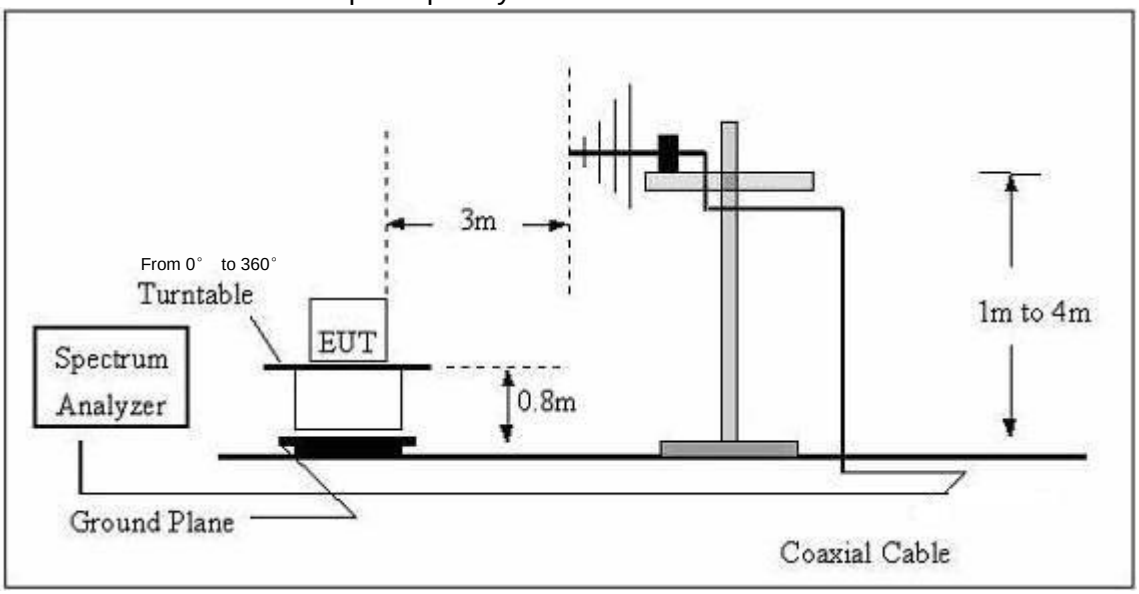
No deviation

4.2.4 TEST SETUP

（A）Radiated Emission Test-Up Frequency Below 30MHz



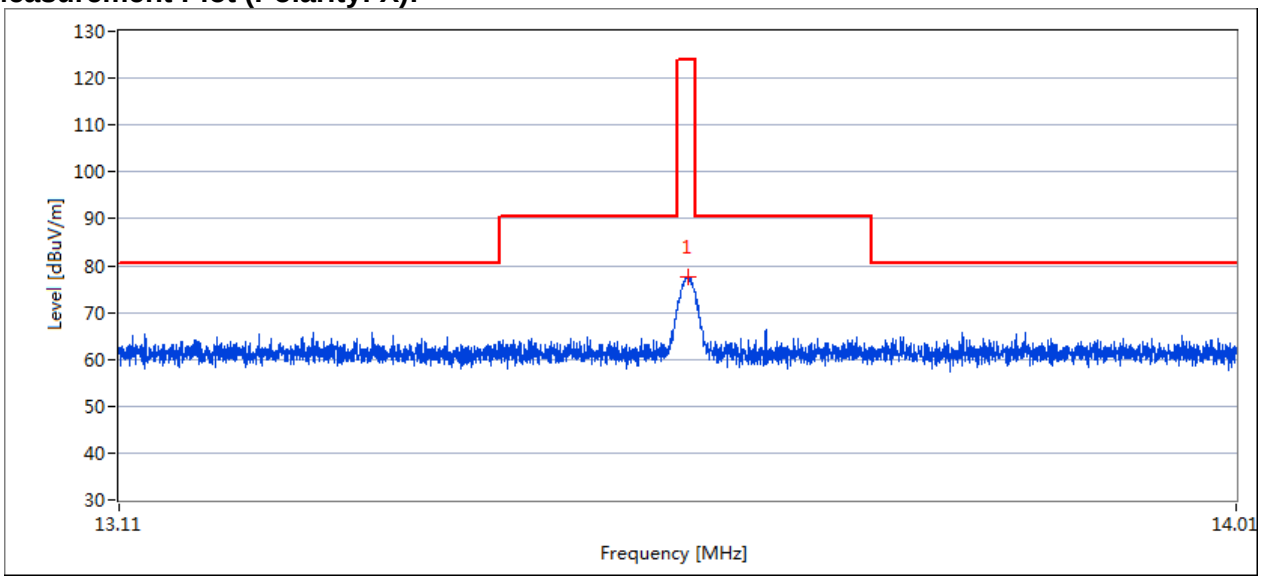
（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



4.2.5 TEST RESULTS (BELOW 30MHz)

EUT：	Mobile Phone	Model Name. ：	GQ3103
Temperature：	20 ℃	Relative Humidtity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	TX-13.56MHz		

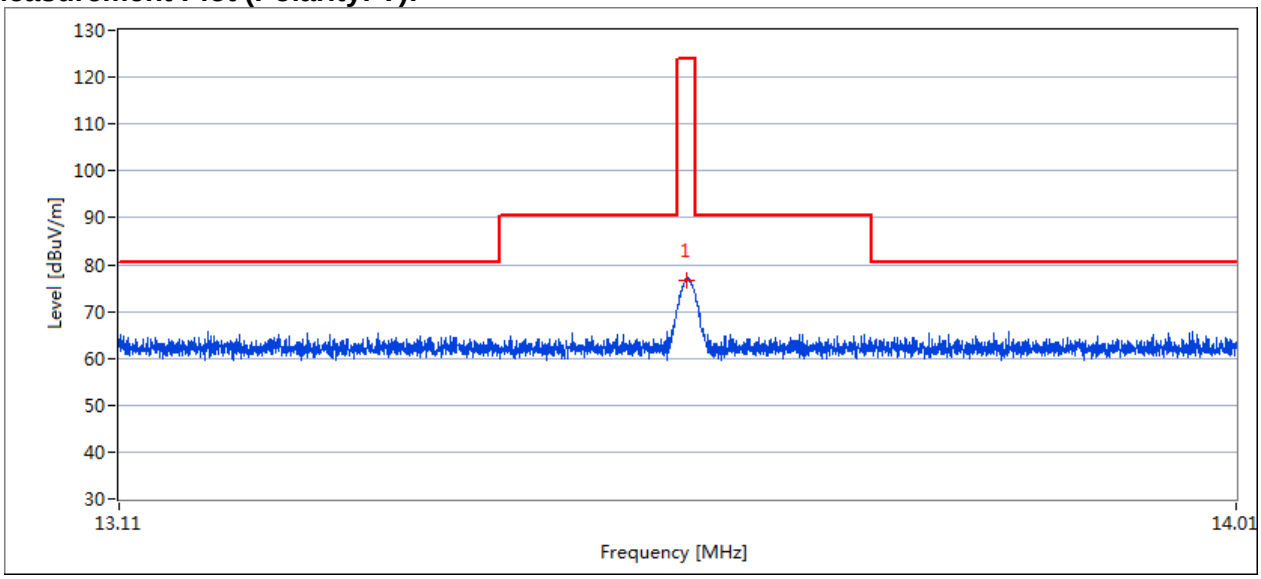
Measurement Plot (Polarity: X):



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.560	77.6	77.7	124.0	46.3

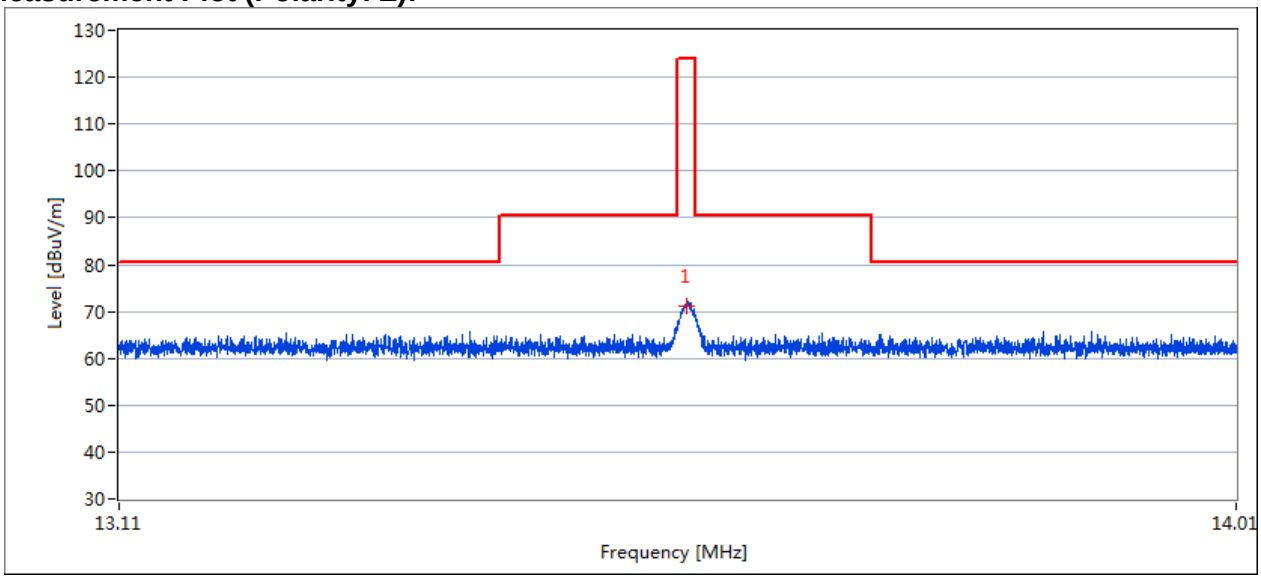
Measurement Plot (Polarity: Y):



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.560	76.7	77.5	124.0	46.5

Measurement Plot (Polarity: Z):



Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.561	71.0	72.7	124.0	51.3

Spurious emissions at 9KHz~13.110MHz & 14.010MHz~30MHz

Frequency (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.068	X	43.15	110.950	-67.80	Avg
0.355	X	42.06	96.600	-54.54	Avg
0.784	X	22.01	69.720	-47.71	QP
4.579	X	22.05	69.542	-47.49	QP
11.667	X	22.16	69.542	-47.38	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

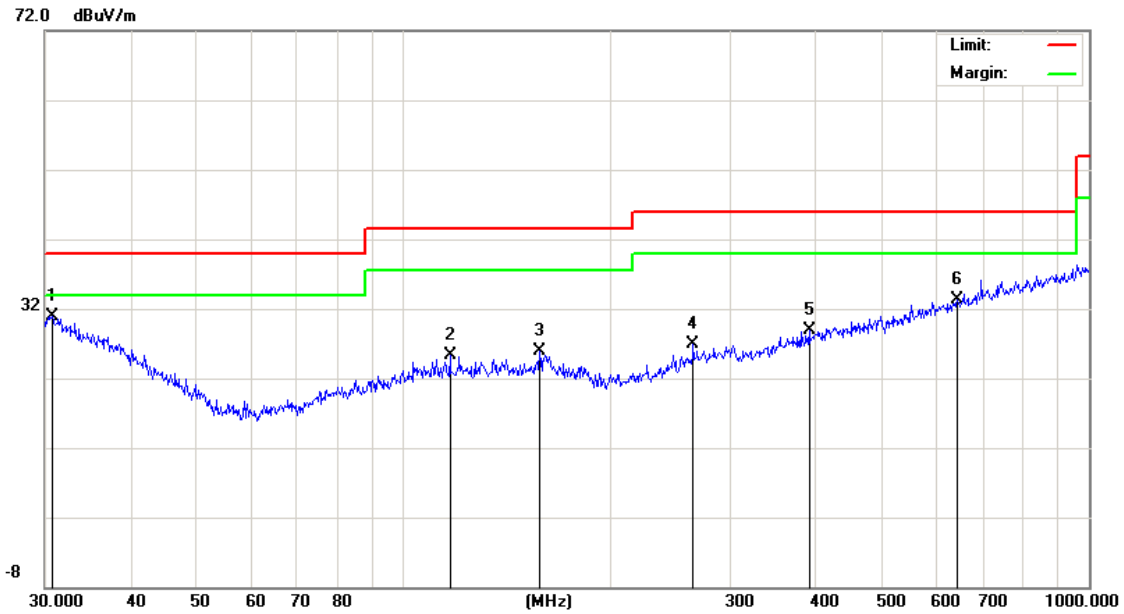
Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees

4.2.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT：	Mobile Phone	Model Name ：	GQ3103
Temperature：	22 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	TX	Polarization :	Horizontal

Freq. (MHz)	Reading (dBμV/m)	Factor (dB)	Measurement (dBμV/m)	Limit (dBμV/m)	Over (dB)	Detector
30.7454	5.12	25.82	30.94	40.00	-9.06	QP
116.9495	6.40	18.91	25.31	43.50	-18.19	QP
158.1123	8.00	17.90	25.90	43.50	-17.60	QP
264.7456	7.34	19.62	26.96	46.00	-19.04	QP
390.7226	6.05	22.84	28.89	46.00	-17.11	QP
642.8613	6.68	26.64	33.32	46.00	-12.68	QP

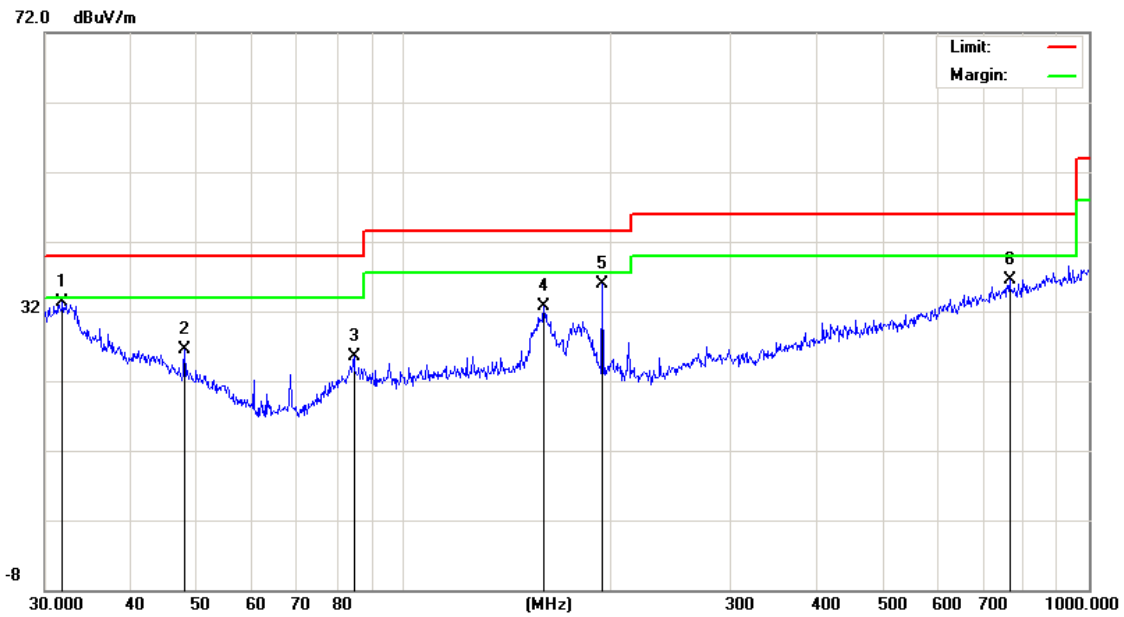
Remark:
Factor = Antenna Factor + Cable Loss.



EUT：	Mobile Phone	Model Name ：	GQ3103
Temperature：	25℃	Relative Humidity：	55%
Pressure：	1010 hPa	Test Voltage ：	DC 3.85V
Test Mode ：	TX	Polarization :	Vertical

Freq. (MHz)	Reading (dBμV/m)	Factor (dB)	Measurement (dBμV/m)	Limit (dBμV/m)	Over (dB)	Detector
31.8427	8.52	24.82	33.34	40.00	-6.66	QP
47.9939	10.43	16.08	26.51	40.00	-13.49	QP
84.7019	9.10	16.36	25.46	40.00	-14.54	QP
160.3456	14.46	18.29	32.75	43.50	-10.75	QP
195.1365	19.40	16.51	35.91	43.50	-7.59	QP
766.0571	7.57	29.01	36.58	46.00	-9.42	QP

Remark:
Factor = Antenna Factor + Cable Loss.



5. BANDWIDTH TEST

5.1 TEST PROCEDURE

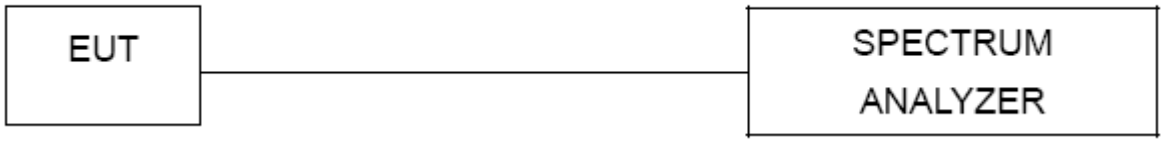
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

5.2 DEVIATION FROM STANDARD

15.215
(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

FCC Part15.225
Operation within the band 13.110 – 14.010MHz

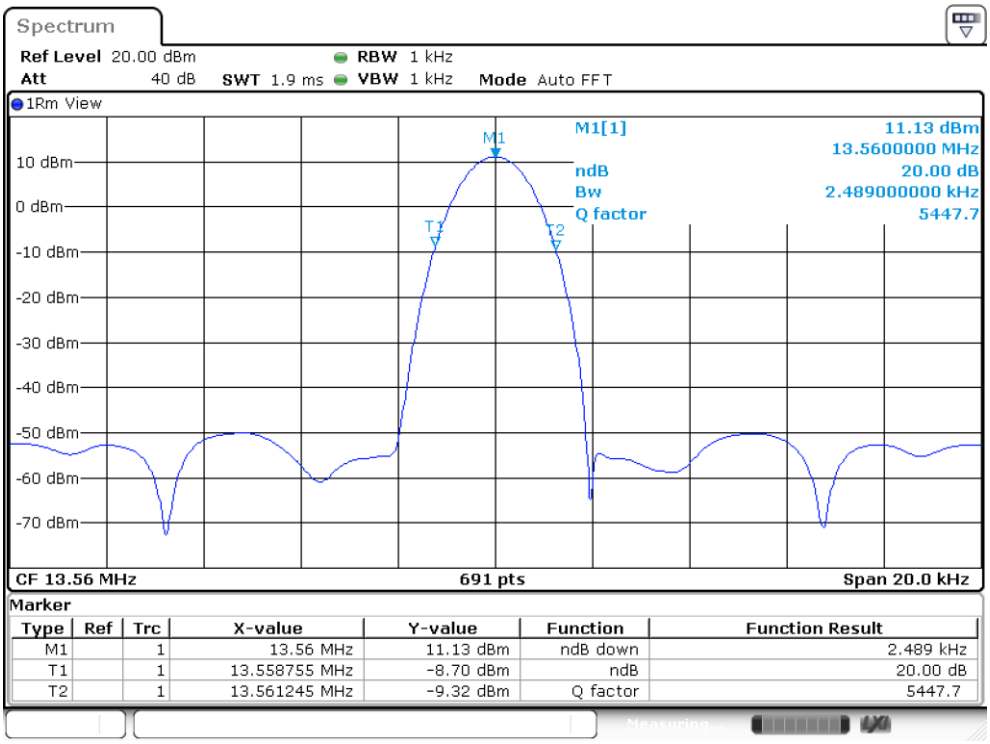
5.3 TEST SETUP



5.4 TEST RESULTS

EUT：	Mobile Phone	Model Name ：	GQ3103
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1020 hPa	Test Power ：	DC 3.85V
Test Mode ：	TX		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (kHz)
CH01	13.56	2.489



6. FREQUENCY TOLERANCE

6.1 Requirement:

Test Requirement:	FCC Part15.225
Test Method:	ANSI C63.4:2014
Requirement:	The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

6.2 Test Procedure

1.The EUT was placed on a turn table which is 0.8m above ground plane.

2.Set EUT as normal operation

3.Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.

4.Set SPA Max hold. Mark peak.

Test Result

Power Supply	Temperature (℃)	Measured Frequency (MHz)	Frequency Error (MHz)	Result (ppm)	Part 15.225 Limit
DC 3.4V	-20	13.56002	0.00002	1.47	+/- 0.01%(100ppm)
	20	13.56003	0.00003	2.21	+/- 0.01%(100ppm)
	50	13.56001	0.00001	0.74	+/- 0.01%(100ppm)
DC 3.85V	-20	13.56005	0.00005	3.69	+/- 0.01%(100ppm)
	20	13.56004	0.00004	2.95	+/- 0.01%(100ppm)
	50	13.56003	0.00003	2.21	+/- 0.01%(100ppm)
DC 4.2V	-20	13.56005	0.00005	3.69	+/- 0.01%(100ppm)
	20	13.56002	0.00002	1.47	+/- 0.01%(100ppm)
	50	13.56003	0.00003	2.21	+/- 0.01%(100ppm)

END REPORT