

## RADIO TEST REPORT FCC ID: 2AOWK-3116

Product: Mobile Phone

Trade Mark: ulefone

Model No.: GQ3116

Armor 24, Armor 24 Pro, Armor 24 Ultra, Family Model: Armor 24 Lite, Armor 24 Plus, Armor 24S, Armor 24P, Armor 24T, Armor 24E Report No.: S23072005407002

**Issue Date:** Sep 05, 2023

## Prepared for

Shenzhen Gotron Electronic CO.,LTD

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## Prepared by

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### **1 TEST RESULT CERTIFICATION**

Applicant's name:	Shenzhen Gotron Electronic CO.,LTD
Address:	7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China
Manufacturer's Name:	Shenzhen Gotron Electronic CO.,LTD
Address:	7B01, 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:	GQ3116
Family Model:	Armor 24, Armor 24 Pro, Armor 24 Ultra, Armor 24 Lite, Armor 24 Plus, Armor 24S, Armor 24P, Armor 24T, Armor 24E
Sample number	S230720054007

Measurement Procedure Used:

APPLICABLE STANDARD	S
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.

Testing Engineer :	Date of Test	:	Jul 24, 2023 ~ Sep 05, 2023	
Authorized Signatory :	Testing Engineer	:	Den lin	
			(Allen Liu)	_
	Authorized Signatory	:	Aless	
(Alex Li)			(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			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		

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#### 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	ulefone			
FCC ID	2AOWK-3116			
Model No.	GQ3116			
Family Model	Armor 24, Armor 24 Pro, Armor 24 Ultra, Armor 24 Lite, Armor 24 Plus, Armor 24S, Armor 24P, Armor 24T, Armor 24E			
Model Difference	All models are the same circuit and RF module, except the model name and colour.			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK			
Number of Channels	40 Channels			
Antenna Type	PIFA Antenna			
Antenna Gain	-4.1dBi			
Adapter	Model: HJ-PD66W-US Input: 100-240V~50/60Hz 1.5A Output: 5.0V3.0A OR 9.0V3.0A OR 12.0V3.0A OR 15.0V3.0A OR 20.0V3.25A OR 11.0V6.0A 66W MAX			
Battery	DC 3.87V, 22000mAh			
Power supply	DC 3.87V from battery or DC 5V from adapter			
HW Version	F2_01			
SW Version	N/A			

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 history				
Report No.	Version	Description	Issued Date	
S23072005407002	Rev.01	Initial issue of report	Sep 05, 2023	





### 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&2Mbps 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&2Mbps	
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps&2Mbps	
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps&2Mbps	
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps&2Mbps	
Conducted Test	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps&2Mbps	
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps&2Mbps	

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.

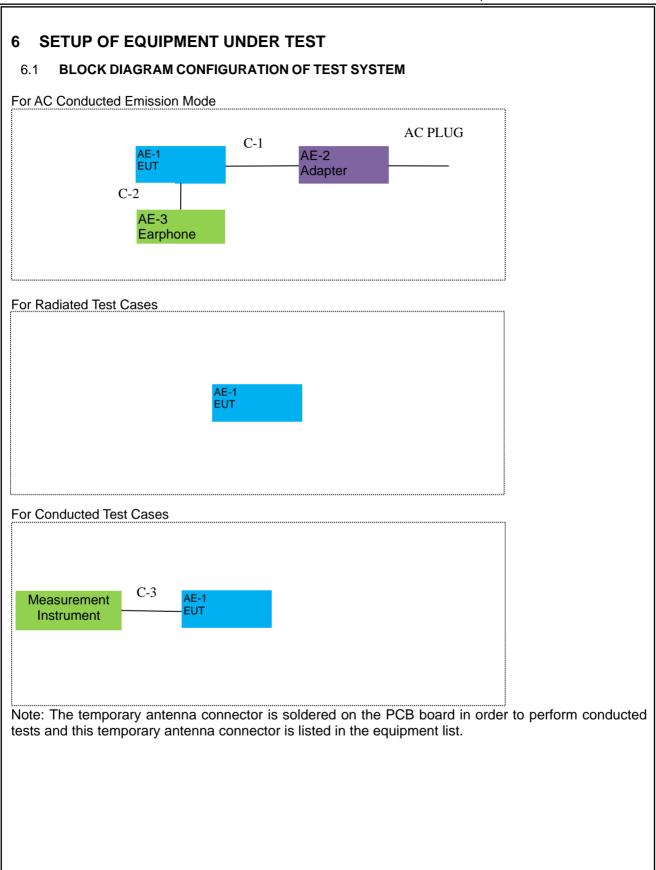
4. EUT built-in battery-powered, the battery is fully-charged.

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#### 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	Mobile Phone	GQ3116	N/A	EUT
AE-2	Adapter	HJ-PD66W-US	N/A	Peripherals
AE-3	Earphone	N/A	N/A	Peripherals

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

#### Notes:

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

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#### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

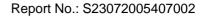
Radiation& Conducted Test equipment

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Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.03.27	2024.03.26	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.03.27	2024.03.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2023.03.27	2024.03.26	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.08	2023.11.07	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.03.27	2024.03.26	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.08	2023.11.07	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.11.08	2023.11.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2022.11.08	2023.11.07	1 year
16	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	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

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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

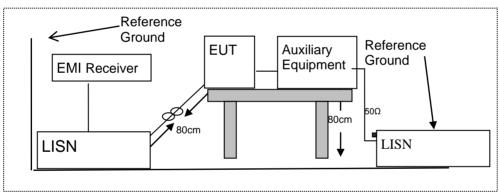
2. The lower limit shall apply at the transition frequencies

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

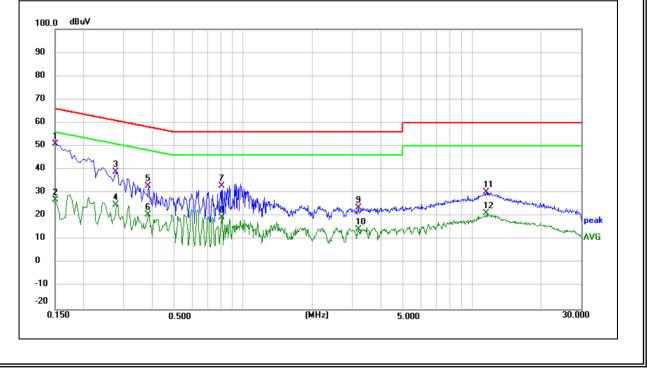
EUT:	Mobile Phone	Model Name :	GQ3116
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Lest Voltage .	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	41.15	9.93	51.08	66.00	-14.92	QP
0.1500	17.06	9.93	26.99	56.00	-29.01	AVG
0.2779	28.61	10.20	38.81	60.88	-22.07	QP
0.2779	14.74	10.20	24.94	50.88	-25.94	AVG
0.3831	22.44	10.40	32.84	58.21	-25.37	QP
0.3831	10.23	10.40	20.63	48.21	-27.58	AVG
0.8059	21.82	11.28	33.10	56.00	-22.90	QP
0.8059	8.09	11.28	19.37	46.00	-26.63	AVG
3.1740	14.02	9.67	23.69	56.00	-32.31	QP
3.1740	4.75	9.67	14.42	46.00	-31.58	AVG
11.5460	20.56	9.69	30.25	60.00	-29.75	QP
11.5460	11.69	9.69	21.38	50.00	-28.62	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.







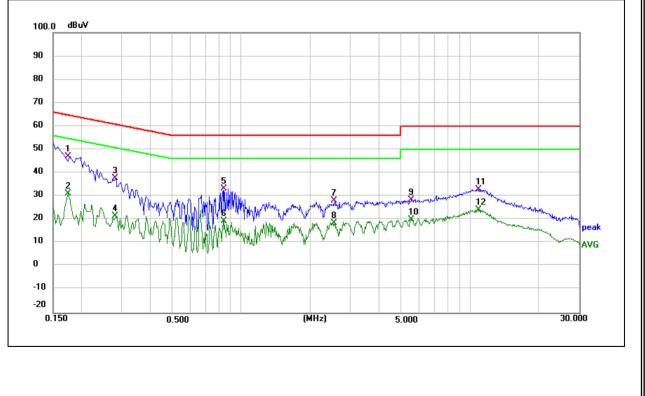
EUT:	Mobile Phone	Model Name :	GQ3116
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerle
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1740	37.12	9.97	47.09	64.77	-17.68	QP
0.1740	21.24	9.97	31.21	54.77	-23.56	AVG
0.2819	27.45	10.20	37.65	60.76	-23.11	QP
0.2819	11.21	10.20	21.41	50.76	-29.35	AVG
0.8420	21.82	11.34	33.16	56.00	-22.84	QP
0.8420	8.10	11.34	19.44	46.00	-26.56	AVG
2.5579	18.58	9.67	28.25	56.00	-27.75	QP
2.5579	9.01	9.67	18.68	46.00	-27.32	AVG
5.5220	18.93	9.67	28.60	60.00	-31.40	QP
5.5220	10.29	9.67	19.96	50.00	-30.04	AVG
10.8900	23.30	9.69	32.99	60.00	-27.01	QP
10.8900	14.61	9.69	24.30	50.00	-25.70	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 00 1 art 15.200, 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)

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.

## NTEK 北测

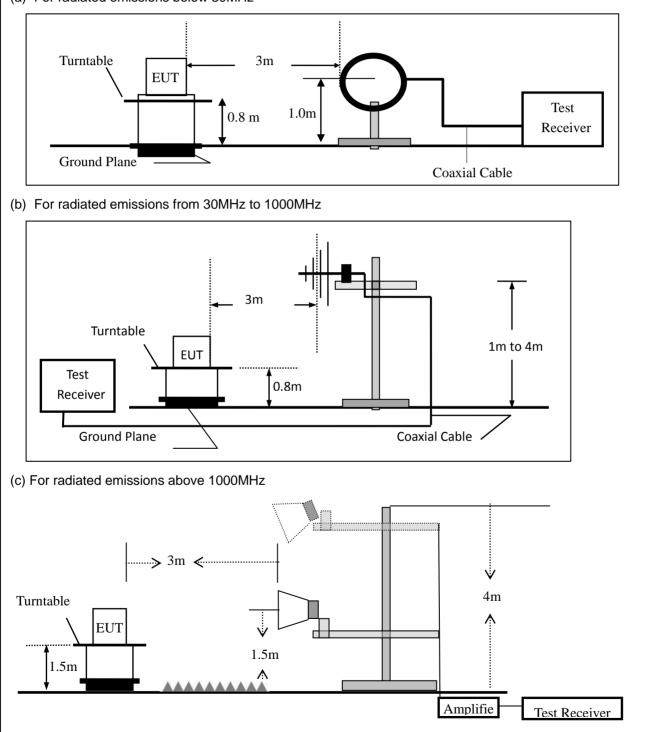


### 7.2.3 Measuring Instruments

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.:	GQ3116
Temperature:	<b>20</b> ℃	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:

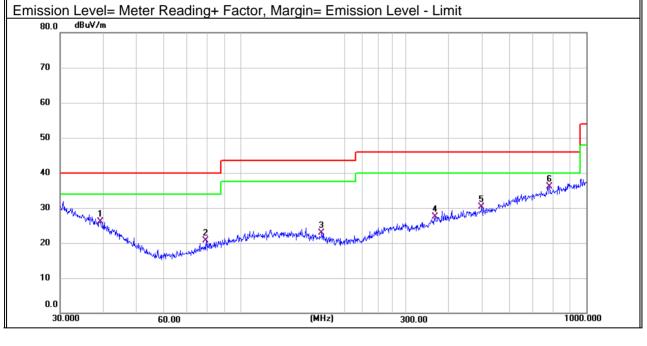
EUT:	Mobile Phone	Model Name :	GQ3116
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 4
Test Voltage :	DC 3.87V		

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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV) (dB) (dl		(dBuV/m)	(dBuV/m)	(dB)		
V	39.2991	4.68	21.40	26.08	40.00	-13.92	QP	
V	79.5209	5.48	15.30	20.78	40.00	-19.22	QP	
V	171.3926	5.58	17.41	22.99	43.50	-20.51	QP	
V	364.2595	5.08	22.34	27.42	46.00	-18.58	QP	
V	497.6765	5.36	24.85	30.21	46.00	-15.79	QP	
V	782.3453	6.68	29.34	36.02	46.00	-9.98	QP	

Remark:





## ACCREDITED Certificate #4298.01

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	43.2017	5.54	19.18	24.72	40.00	-15.28	QP
Н	78.4133	4.94	15.09	20.03	40.00	-19.97	QP
Н	123.6985	5.54	18.75	24.29	43.50	-19.21	QP
Н	222.1698	5.75	17.11	22.86	46.00	-23.14	QP
Н	414.7223	5.15	23.52	28.67	46.00	-17.33	QP
Н	694.4174	6.61	27.86	34.47	46.00	-11.53	QP
80.0	n Level= Meter dBuV/m		· 5				
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10							





EUT: Mobile Phone			Ν	Mode	el No.:		GC	23116			
Temperature: 20 ℃			F	Relative Humidity:				48%			
Fest Mode:	Mode	e2/Mode	3/Mode4	Т	Test	By:		All	en Liu		
Frequency	Read Level	Cable loss	Antenna Factor	Prea Fac		Emission Level	Limits	3	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dE	3)	(dBµV/m)	(dBµV/ı	m)	(dB)		
	Low Channel (2402 MHz)(GFSK)Above 1G										
4804.338	62.11	5.21	35.59	44.3	30	58.61	74.00	)	-15.39	Pk	Vertical
4804.338	41.93	5.21	35.59	44.3	30	38.43	54.00	)	-15.57	AV	Vertical
7206.107	62.02	6.48	36.27	44.6	60	60.17	74.00	)	-13.83	Pk	Vertical
7206.107	42.02	6.48	36.27	44.6	60	40.17	54.00	)	-13.83	AV	Vertical
4804.169	63.62	5.21	35.55	44.3	30	60.08	74.00	)	-13.92	Pk	Horizontal
4804.169	42.72	5.21	35.55	44.3	30	39.18	54.00	)	-14.82	AV	Horizontal
7206.214	60.86	6.48	36.27	44.5	52	59.09	74.00	)	-14.91	Pk	Horizontal
7206.214	41.71	6.48	36.27	44.5	52	39.94	54.00	)	-14.06	AV	Horizontal
			Mid Cha	annel (2	2440	MHz)(GFSK	)Above	1G			
4880.473	62.57	5.21	35.66	44.2	20	59.24	74.00	)	-14.76	Pk	Vertical
4880.473	43.35	5.21	35.66	44.2	20	40.02	54.00	)	-13.98	AV	Vertical
7320.265	65.17	7.10	36.50	44.4	43	64.34	74.00	)	-9.66	Pk	Vertical
7320.265	41.40	7.10	36.50	44.4	43	40.57	54.00	)	-13.43	AV	Vertical
4880.366	61.85	5.21	35.66	44.2	20	58.52	74.00	)	-15.48	Pk	Horizontal
4880.366	40.98	5.21	35.66	44.2	20	37.65	54.00	)	-16.35	AV	Horizontal
7320.234	59.98	7.10	36.50	44.4	43	59.15	74.00	)	-14.85	Pk	Horizontal
7320.234	44.60	7.10	36.50	44.4		43.77	54.00		-10.23	AV	Horizontal
			High Cha	annel (	2480	MHz)(GFSK	) Above	e 1G	6		T
4960.482	63.19	5.21	35.52	44.2	21	59.71	74.00	)	-14.29	Pk	Vertical
4960.482	42.23	5.21	35.52	44.2	21	38.75	54.00	)	-15.25	AV	Vertical
7440.131	64.80	7.10	36.53	44.6	60	63.83	74.00	)	-10.17	Pk	Vertical
7440.131	48.83	7.10	36.53	44.6	60	47.86	54.00	)	-6.14	AV	Vertical
4960.326	63.58	5.21	35.52	44.2	21	60.10	74.00	)	-13.90	Pk	Horizontal
4960.326	44.12	5.21	35.52	44.2	21	40.64	54.00	)	-13.36	AV	Horizontal
7440.199	64.83	7.10	36.53	44.6	60	63.86	74.00	)	-10.14	Pk	Horizontal
7440.199	45.80	7.10	36.53	44.6	60	44.83	54.00	)	-9.17	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 (2Mbps for GFSK modulation) test result is the worst





### Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

	EUT:	Mobile Phone	Model No.:	GQ3116
·	Temperature:	<b>20</b> ℃	Relative Humidity:	48%
•	Test Mode:	Mode2/ Mode4	Test By:	Allen Liu

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment					
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре						
	1Mbps(GFSK)													
2310.00	64.05	2.97	27.80	43.80	51.02	74	-22.98	Pk	Horizontal					
2310.00	43.48	2.97	27.80	43.80	30.45	54	-23.55	AV	Horizontal					
2310.00	62.52	2.97	27.80	43.80	49.49	74	-24.51	Pk	Vertical					
2310.00	42.57	2.97	27.80	43.80	29.54	54	-24.46	AV	Vertical					
2390.00	62.84	3.14	27.21	43.80	49.39	74	-24.61	Pk	Vertical					
2390.00	42.57	3.14	27.21	43.80	29.12	54	-24.88	AV	Vertical					
2390.00	64.49	3.14	27.21	43.80	51.04	74	-22.96	Pk	Horizontal					
2390.00	42.72	3.14	27.21	43.80	29.27	54	-24.73	AV	Horizontal					
2483.50	61.97	3.58	27.70	44.00	49.25	74	-24.75	Pk	Vertical					
2483.50	42.46	3.58	27.70	44.00	29.74	54	-24.26	AV	Vertical					
2483.50	65.05	3.58	27.70	44.00	52.33	74	-21.67	Pk	Horizontal					
2483.50	43.24	3.58	27.70	44.00	30.52	54	-23.48	AV	Horizontal					

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

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





UT: Mobile Phone			Model	Model No.:		GQ3116				
Temperature: 20 °C		Relativ	Relative Humidity:		48%					
Test Mode: Mode2/ Mode4		Test E	Test By:		Allen Liu					
										1
Frequenc	/ Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	iits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре	
3260	64.84	4.04	29.57	44.70	53.75	74	4	-20.25	Pk	Vertical
3260	57.30	4.04	29.57	44.70	46.21	54	4	-7.79	AV	Vertical
3260	66.39	4.04	29.57	44.70	55.30	74	4	-18.70	Pk	Horizontal
3260	58.04	4.04	29.57	44.70	46.95	54	4	-7.05	AV	Horizontal
3332	65.56	4.26	29.87	44.40	55.29	74	4	-18.71	Pk	Vertical
3332	58.22	4.26	29.87	44.40	47.95	54	4	-6.05	AV	Vertical
3332	67.10	4.26	29.87	44.40	56.83	74	4	-17.17	Pk	Horizontal
3332	53.41	4.26	29.87	44.40	43.14	54	4	-10.86	AV	Horizontal
17797	46.38	10.99	43.95	43.50	57.82	74	4	-16.18	Pk	Vertical
17797	36.15	10.99	43.95	43.50	47.59	54	4	-6.41	AV	Vertical
17788	44.07	11.81	43.69	44.60	54.97	74	4	-19.03	Pk	Horizontal
17788	37.16	11.81	43.69	44.60	48.06	54	4	-5.94	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 (2Mbps 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.

Certificate #4298.01

#### 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.:	GQ3116
Temperature:	<b>20</b> ℃	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 ( $\ge$  RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T<sub>total</sub> and T<sub>on</sub> Calculate Duty Cycle = T<sub>on</sub> / T<sub>total</sub>



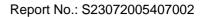


#### 7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	GQ3116
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable





#### 7.5 PEAK OUTPUT POWER

#### 7.5.1 Applicable Standard

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

Certificate #4298.01

#### 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.:	GQ3116
Temperature:	<b>20</b> ℃	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.:	GQ3116
Temperature:	<b>20</b> ℃	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.

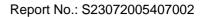
Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

#### 7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	GQ3116
Temperature:	<b>20</b> ℃	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: -4.1 dBi). It comply with the standard requirement.



8 TEST RESULTS

### 1M

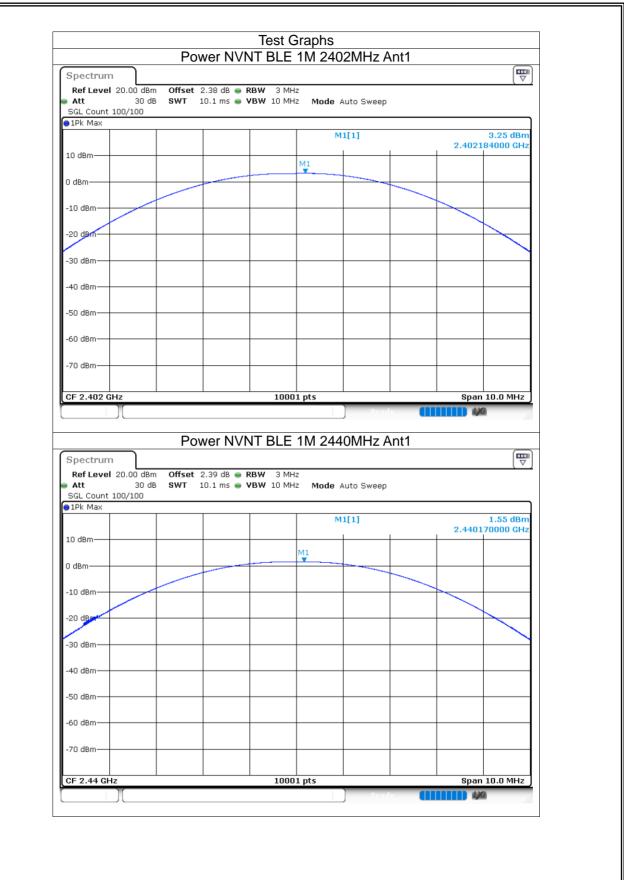
## 8.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	3.25	30	Pass
NVNT	BLE 1M	2440	Ant1	1.55	30	Pass
NVNT	BLE 1M	2480	Ant1	3	30	Pass

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	 	1M 2480MHz		Ē
Spectrum				
Ref Level 20.00 a	42 dB 👄 <b>RBW</b> З М			
	.1 ms 👄 <b>VBW</b> 10 M	Hz Mode Auto Swee	p	
3GL Count 100/100 1Pk Max				
TEK MAX		M1[1]		3.00 dBm
		MILTI	2.4	79759000 GHz
.0 dBm	 			
	M1			
dBm				
abiii				
10 dBm				
20 dBm				
30 dBm	 			
40 dBm	 			
50 dBm	 			
60 dBm				
70 dBm				
F 2.48 GHz	 . 100	01 pts	Ś	pan 10.0 MHz
				4.562

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## 8.2 -6DB BANDWIDTH

0.2 000						
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.702	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.686	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.705	0.5	Pass





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Spectrum								_ [₩
Ref Level	20.00	Bm Offset	2 42 dB 👄	RBW 100 kHz				( v
Att			_	VBW 300 kHz	Mode Auto FFT			
GL Count 3					node nate i i i			
1Pk Max								
					M1[1]		2.2	) dBm
							2.47998880	0 GHz
0 dBm				MI	M2[1]		-3.8	1 dBm
dDas			M2 -		M'	3	2.47964100	0 GHz
dBm			1					
10 dBm			1					
20 dBm		<u> </u>						
	/							
30 dBm -						_		
40 dBm				_		_		
50 dBm —								
60 dBm —						_		
70 dBm —								
F 2.48 GHz	z			10001 pt	ts		Span 2.0	MHz
arker								
Type   Ref	Trc	X-valu	e	Y-value	Function	Func	tion Result	
M1	1	2.47998	388 GHz	2.20 dBm				
M2	1	2.4796	641 GHz	-3.81 dBm				
M3	1	2.4803	345 GHz	-3.81 dBm				

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### 8.3 OCCUPIED CHANNEL BANDWIDTH

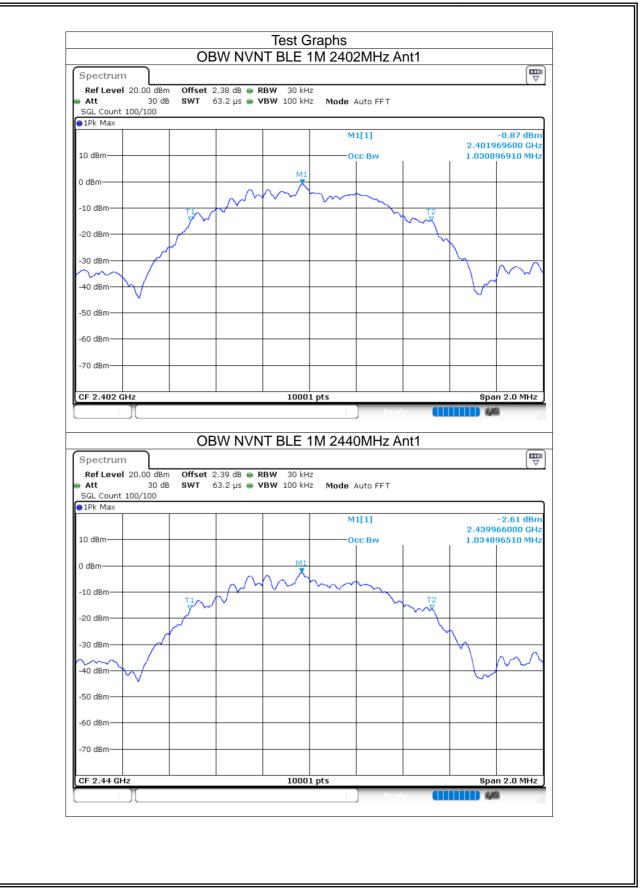
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.031
NVNT	BLE 1M	2440	Ant1	1.035
NVNT	BLE 1M	2480	Ant1	1.035

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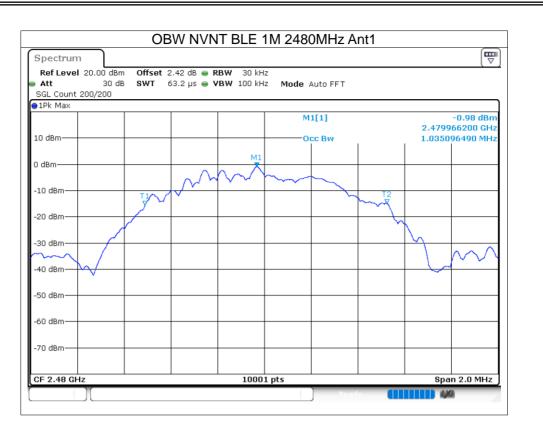
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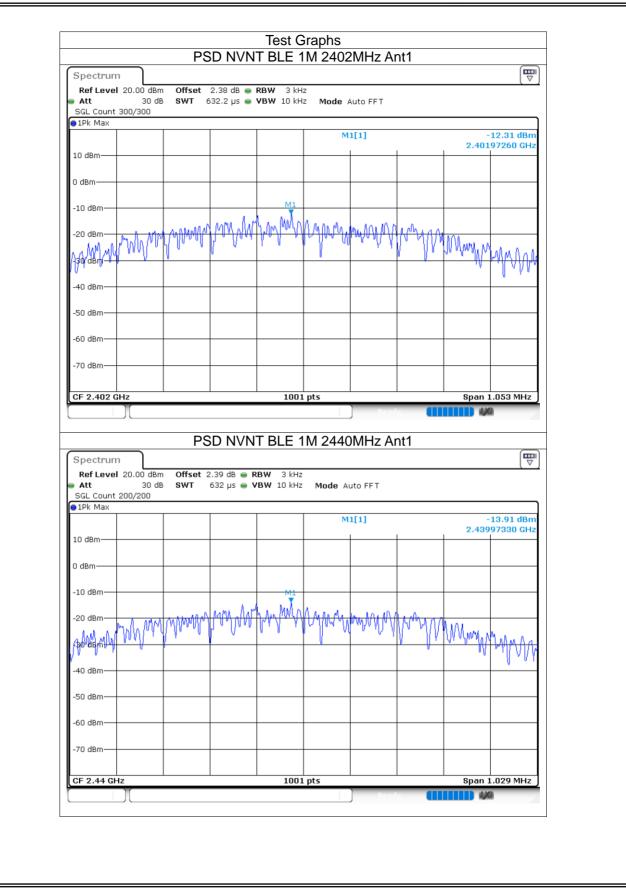




## 8.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

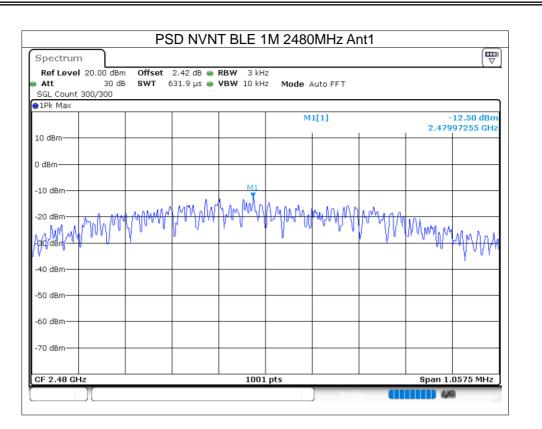
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-12.31	8	Pass
NVNT	BLE 1M	2440	Ant1	-13.91	8	Pass
NVNT	BLE 1M	2480	Ant1	-12.5	8	Pass





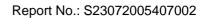
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# 8.5 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.32	-20	Pass
NVNT	BLE 1M	2480	Ant1	-44.17	-20	Pass

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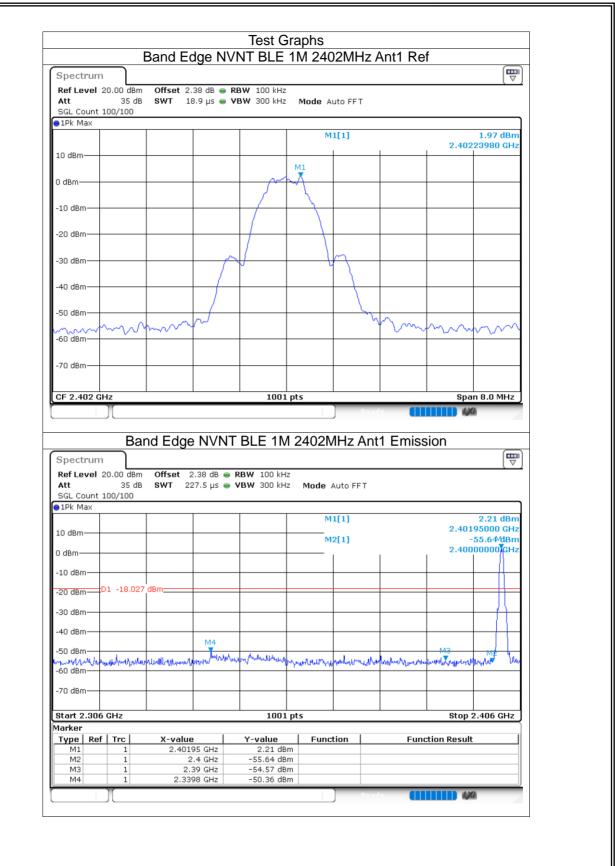


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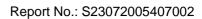




Ref Level 3 Att SGL Count 1	45 dB			RBW 100 kHz VBW 300 kHz		uto FFT			
1Pk Max									
					М	1[1]		0.470	2.10 dBm
20 dBm							1	2.479	99200 GHz
10 dBm									
				M	1				
0 dBm				- M	كمم				
-10 dBm					5				
-10 0011									
-20 dBm									
-30 dBm			1	$\forall$		$\sim$			
-40 dBm			hart						
-50 dBm	$\sim\sim\sim$	m					Ym	m	
-30 ubm									
-60 dBm									
CF 2.48 GH:	7			1001	nte				n 8.0 MHz
GF 2.40 GH	2			1001	pts			эра	11 8.0 MH2
0	J	nd Edge	e NVN	T BLE 1M	1 2480N	IHz Ant	t1 Emiss	sion	
Spectrum Ref Level 3 Att	30.00 dBm	Offset 2	2.42 dB 👄	<b>RBW</b> 100 kH:	z		t1 Emiss	sion	
Ref Level 3 Att SGL Count 1	30.00 dBm 45 dB	Offset 2	2.42 dB 👄		z		t1 Emiss	sion	
Ref Level 3 Att SGL Count 1	30.00 dBm 45 dB	Offset 2	2.42 dB 👄	<b>RBW</b> 100 kH:	z z <b>Mode</b> /	Auto FFT	t1 Emiss	sion	
Ref Level 3 Att SGL Count 1 1Pk Max	30.00 dBm 45 dB	Offset 2	2.42 dB 👄	<b>RBW</b> 100 kH:	z z <b>Mode</b> /		t1 Emiss		1.71 dBm 25000 GHz
Ref Level 3 Att SGL Count 1 1Pk Max 20 dBm	30.00 dBm 45 dB	Offset 2	2.42 dB 👄	<b>RBW</b> 100 kH:	z Mode /	Auto FFT	t1 Emiss	2.480	1.71 dBm 25000 GHz 46.20 dBm
Ref Level 3 Att SGL Count 1	30.00 dBm 45 dB	Offset 2	2.42 dB 👄	<b>RBW</b> 100 kH:	z Mode /	Auto FFT 1[1]	t1 Emiss	2.480	1.71 dBm 25000 GHz
Ref Level 3 Att SGL Count 1 1Pk Max 20 dBm 10 dBm M1	30.00 dBm 45 dB	Offset 2	2.42 dB 👄	<b>RBW</b> 100 kH:	z Mode /	Auto FFT 1[1]	t1 Emiss	2.480	1.71 dBm 25000 GHz 46.20 dBm
Ref Level 3 Att SGL Count 1 1Pk Max 20 dBm 10 dBm 10 dBm	30.00 dBm 45 dB	Offset 2	2.42 dB 👄	<b>RBW</b> 100 kH:	z Mode /	Auto FFT 1[1]	t1 Emiss	2.480	1.71 dBm 25000 GHz 46.20 dBm
Ref Level 3           Att           SGL Count 1           IPk Max           20 dBm           10 dBm           0 dBm           -10 dBm	30.00 dBm 45 dB 100/100	Offset 2 SWT 2:	2.42 dB 👄	<b>RBW</b> 100 kH:	z Mode /	Auto FFT 1[1]	t1 Emiss	2.480	1.71 dBm 25000 GHz 46.20 dBm
Ref Level 3 Att SGL Count 1 PPK Max 20 dBm 10 dBm M1 0 dBm -10 dBm	30.00 dBm 45 dB	Offset 2 SWT 2:	2.42 dB 👄	<b>RBW</b> 100 kH:	z Mode /	Auto FFT 1[1]	t1 Emiss	2.480	1.71 dBm 25000 GHz 46.20 dBm
Ref Level 3           Att           SGL Count 1           IPk Max           20 dBm           10 dBm           0 dBm           -10 dBm	30.00 dBm 45 dB 100/100	Offset 2 SWT 2:	2.42 dB 👄	<b>RBW</b> 100 kH:	z Mode /	Auto FFT 1[1]	t1 Emiss	2.480	1.71 dBm 25000 GHz 46.20 dBm
Ref Level 3           Att           SGL Count 1           SGL Count 2           IPk Max           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm	30.00 dBm 45 dB 100/100	Offset 2 SWT 2 dBm	2.42 dB • 27.5 µs •	RBW 100 kH; VBW 300 kH;	z Mode / M M	Auto FFT  1[1] 2[1]		2.480	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           IPk Max           20 dBm           10 dBm           -10 dBm           -20 cBm           -30 dBm           -40 dBmp	30.00 dBm 45 dB 100/100	Offset 2 SWT 2 dBm	2.42 dB • 27.5 µs •	<b>RBW</b> 100 kH:	z Mode / M M	Auto FFT  1[1] 2[1]		2.480	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 1           SGL Count 2           IPk Max           20 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm	30.00 dBm 45 dB 100/100	Offset 2 SWT 2 dBm	2.42 dB • 27.5 µs •	RBW 100 kH; VBW 300 kH;	z Mode / M M	Auto FFT  1[1] 2[1]		2.480	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           IPk Max           20 dBm           10 dBm           -10 dBm           -20 cBm           -30 dBm           -40 dBmp	30.00 dBm 45 dB 100/100	Offset 2 SWT 2 dBm	2.42 dB • 27.5 µs •	RBW 100 kH; VBW 300 kH;	z Mode / M M	Auto FFT  1[1] 2[1]		2.480	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           IPk Max           20 dBm           10 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	30.00 dBm 45 dB 100/100	Offset 2 SWT 2 dBm	2.42 dB • 27.5 µs •	RBW 100 kH VBW 300 kH 	2 2 Mode / M M	Auto FFT  1[1] 2[1]		2.480 - 2.483 	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           IPk Max           20 dBm           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           Start 2.476	30.00 dBm 45 dB 100/100	Offset 2 SWT 2 dBm	2.42 dB • 27.5 µs •	RBW 100 kH; VBW 300 kH;	2 2 Mode / M M	Auto FFT  1[1] 2[1]		2.480 - 2.483 	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           IPk Max           20 dBm           10 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -60 dBm           Start 2.476	30.00 dBm 45 dB 100/100	Offset : SWT 2: dBm dBm	2.42 dB 27.5 µs 27.5 µs	RBW         100 kH;           VBW         300 kH;	2 Mode / M M ////////////////////////////////	Auto FFT  1[1]  2[1]	Reproduction and the	2.480 	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           IPk Max           20 dBm           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           Start 2.476	30.00 dBm 45 dB 100/100	Offset 2 SWT 2 dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	2.42 dB 27.5 µs 27.5 µs	RBW 100 kH VBW 300 kH 	2 Mode / M M M m y/%-///%-//%	Auto FFT  1[1]  2[1]	Reproduction and the	2.480 - 2.483 	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           IPk Max           20 dBm           10 dBm           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           Start 2.476           Marker           Type           Ref           M1           M2	30.00 dBm 45 dB 100/100 01 -17.897 01 -17.897 GHz GHz 1 1	Offset 2 SWT 2 dBm M4 	2.42 dB 27.5 µs 27.5 µs 27.5 µs 27.5 µs 25 µs 26 µs 27 µ	RBW 100 kH: VBW 300 kH: VBW 3	2 2 Mode / س مرابع pts 	Auto FFT  1[1]  2[1]	Reproduction and the	2.480 	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz
Ref Level 3           Att           SGL Count 3           1Pk Max           20 dBm           10 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -60 dBm           -50 dBm           -60 dBm           -70 dBm           <	30.00 dBm 45 dB 100/100 01 -17.897 	Offset : SWT 2: dBm dBm M4 	2.42 dB 27.5 µs 27.5 µs 27.5 µs 25.5 µ	RBW 100 kH VBW 300 kH 	2 2 Mode / M M M M M M M Func m m m	Auto FFT  1[1]  2[1]	Reproduction and the	2.480 	1.71 dBm 25000 GHz 46.20 dBm 50000 GHz

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## 8.6 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.6	-20	Pass
NVNT	BLE 1M	2440	Ant1	-52.08	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.9	-20	Pass

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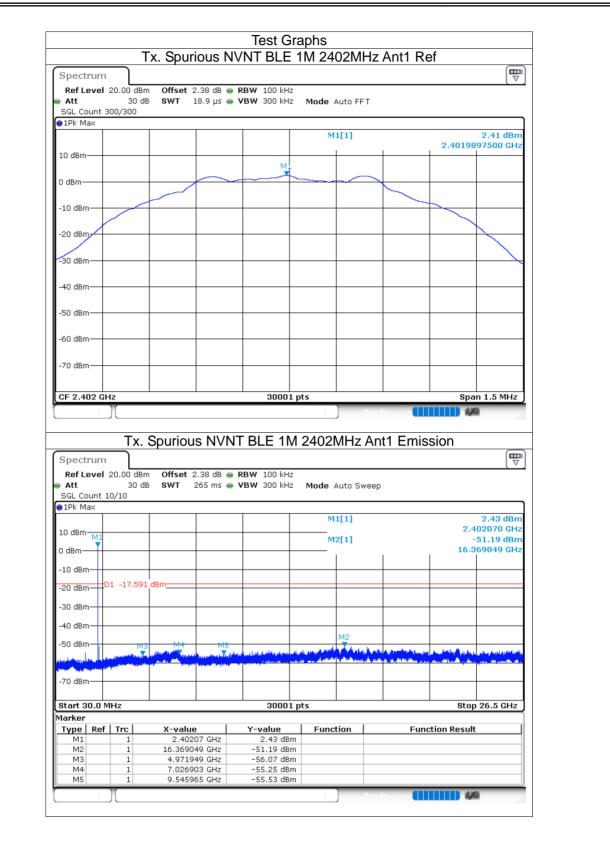


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Version.1.3



20.00 dBm	Offset 2	.39 dB 👄 I	RBW 100 kHz					
30 dE	SWT 1	.8.9 µs 👄 '	<b>VBW</b> 300 kHz	Mode /	Auto FFT			
100/100								
			· ·					
				м	1[1]		0.4000	0.73 dBm
						I	2.43998	90500 GHz
			MI					
		$\sim$		$\sim$				
			+ +					
			+					
								]
z			30001	pts			Spa	n 1.5 MHz
				Mode /	uto Sweep			
10/10								
				M	1[1]			-1.27 dBm
			+ +	M	0[1]			40010 GHz -51.36 dBm
					2[1]			67201 GHz
			++					
D1 -19.270	dBm							
			+ +					
	M2		+					
MB	M2 M1	MS	la ser a	المربط الإراد بالاربين		المحمد الم الحر الم	فالأستعويس	
M3	M2 M1	MIS A MIS				وي وي مركز ومركز والي والي من مركز ومركز ومركز والي الي والي والي		a histoin, deguid Landan, Lifean Maria ann ann ann anns anns
M3	M2 M1-		1 417 - 1 418 1 4 - 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4					a dalah dari dalam d Angeler dalam da
M3	M2 M4							
M3	M2 M4							
M3	M2 M4		30001		in a fair a fair i na chuir a fair a fair ann an tha ann	an a	Stor	26.5 GHz
				pts		ta di dina di Albaria di Angangga Angang di Angangga Angang di Angangga Angang di Angangga		
Trc	X-value		Y-value	pts		Func	Stop	
<b>Trc</b>	X-value 2.4400	01 GHz	Y-value -1.27 dBm	pts Func		Func		
Trc	X-value	01 GHz 01 GHz	<b>Y-value</b> -1.27 dBm -51.36 dBm	pts Func		Func		
1 1 1 1 1	X-value 2.4400 6.86720 4.7787 7.45830	01 GHz 01 GHz 01 GHz 11 GHz 18 GHz 54 GHz	<b>Y-value</b> -1.27 dBm -51.36 dBm -55.67 dBm -54.55 dBm	pts Function		Func		
1 1 1	X-value 2.4400 6.86720 4.77873	01 GHz 01 GHz 01 GHz 11 GHz 18 GHz 54 GHz	<b>Y-value</b> -1.27 dBm -51.36 dBm -55.67 dBm	pts Function		Func		
	Tx. 20.00 dBm 30 dE 10/10	Tx. Spurious	Tx. Spurious NVN 20.00 dBm Offset 2.39 dB • 1 30 dB swT 265 ms • 1 10/10	z 30001 Tx. Spurious NVNT BLE 1N 20.00 dBm Offset 2.39 dB RBW 100 kHz 30 dB SWT 265 ms VBW 300 kHz 10/10	z 30001 pts	z 30001 pts Tx. Spurious NVNT BLE 1M 2440MHz An 20.00 dBm Offset 2.39 dB • RBW 100 kHz 30 dB SWT 265 ms • YBW 300 kHz 10/10 M1[1] M2[1]	z 30001 pts Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emis 20.00 dBm Offset 2.39 dB • RBW 100 kHz 30 dB SWT 265 ms • YBW 300 kHz Mode Auto Sweep 10/10 M1[1] M2[1]	z 30001 pts Spa z 30001 pts Spa Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission 20.00 dBm Offset 2.39 dB • RBW 100 kHz 30 dB SWT 265 ms • VBW 300 kHz Mode Auto Sweep 10/10 M1[1] 2.4 M2[1] 6.6

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	n								
	1 20.00 dBm			RBW 100 kH					
SGL Count	30 dB	SWT 18	3.9 hz 👄	<b>VBW</b> 300 kH:	z Mode /	Auto FFT			
1Pk Max	,								
					M	1[1]			1.70 dBm
10 dBm						1	I	2.47975	21080 GHz
			М1						
0 dBm			-						
0 00111									
-10 dBm									
-20 dBm									
-30 dBm									
-40 dBm									
FO dD									
-50 dBm									
-60 dBm									
se abili-									
-70 dBm									
CF 2.48 GH				3000:	1 ntc			0	n 1.5 MHz
GF 2.40 Gr	72			3000.	i pis			эра	II 1.3 MHZ J
Spectrun		Spurious	s NVN	T BLE 1N	M 24801	) MHz An	t1 Emis	sion	
Spectrun Ref Leve Att		Offset 2.	42 dB 😑	TBLE 11 RBW 100 kH: VBW 300 kH:	z	) Pead MHz An	t1 Emis	sion	
Ref Leve Att SGL Count	n I 20.00 dBm 30 dB	Offset 2.	42 dB 😑	<b>RBW</b> 100 kH:	z		t1 Emis	sion	
Ref Leve Att	n I 20.00 dBm 30 dB	Offset 2.	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode A	Auto Sweep	t1 Emis	sion	
Ref Leve Att SGL Count 1Pk Max	n I 20.00 dBm 30 dB	Offset 2.	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode A		t1 Emis		
Ref Leve Att SGL Count 1Pk Max	n I 20.00 dBm 30 dB	Offset 2.	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode / M:	Auto Sweep	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve Att SGL Count 1Pk Max	n I 20.00 dBm 30 dB	Offset 2.	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode / M:	Auto Sweep 1[1]	t1 Emis	2.4	2.18 dBm 79720 GHz
Ref Leve Att SGL Count 1Pk Max	n I 20.00 dBm 30 dB	Offset 2.	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode / M:	Auto Sweep 1[1]	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm	n I 20.00 dBm 30 dB	Offset 2. SWT 20	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode / M:	Auto Sweep 1[1]	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm	n I 20.00 dBm 30 dB 5/5	Offset 2. SWT 20	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode / M:	Auto Sweep 1[1]	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm	n I 20.00 dBm 30 dB 5/5	Offset 2. SWT 20	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode / M:	Auto Sweep 1[1]	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm	n I 20.00 dBm 30 dB 5/5	Offset 2. SWT 20	42 dB 😑	<b>RBW</b> 100 kH:	z z Mode / M:	Auto Sweep 1[1] 2[1]	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	n I 20.00 dBm 30 dB 5/5	Offset 2. SWT 20	42 dB ● 65 ms ●	RBW 100 kH:	z Mode A M: M:	Auto Sweep 1[1] 2[1] M2	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve           Att           SGL Count           IPk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n I 20.00 dBm 30 dB 5/5	Offset 2. SWT 20	42 dB 😑	RBW 100 kH:	Z Mode A	Auto Sweep 1[1] 2[1]	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm	n I 20.00 dBm 30 dB 5/5	dBm	42 dB ● 65 ms ●	RBW 100 kH:	z Mode A M: M:	Auto Sweep 1[1] 2[1] M2	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve           Att           SGL Count           IPk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n I 20.00 dBm 30 dB 5/5	dBm	42 dB ● 65 ms ●	RBW 100 kH:	z Mode A M: M:	Auto Sweep 1[1] 2[1] M2	t1 Emis	2.4	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	n 1 20.00 dBm 30 dB 5/5 201 -18.300	dBm	42 dB ● 65 ms ●	RBW 100 kH:	Z Mode A	Auto Sweep 1[1] 2[1] M2	t1 Emis	2.4 - 16.3	2.18 dBm 79720 GHz 51.21 dBm 84048 GHz
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm	n 1 20.00 dBm 30 dB 5/5 201 -18.300	dBm	42 dB ● 65 ms ●	RBW 100 kH:	Z Mode A	Auto Sweep 1[1] 2[1] M2	t1 Emis	2.4 - 16.3	2.18 dBm 79720 GHz 51.21 dBm
Ref Leve           Att           SGL Count           SGL Count           IPk Max           10 dBm           -10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type	n 1 20.00 dBm 30 dB 5/5 201 -18.300 M3 MHz MHz	dBm	42 dB 65 ms	RBW 100 kH: VBW 300 kH: 	Z Mode A	Auto Sweep 1[1] 2[1] M2		2.4 - 16.3	2.18 dBm 79720 GHz 51.21 dBm 84048 GHz
Ref Leve           Att           SGL Count           SGL Count           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Varker           Type         Re           M1	n I 20.00 dBm 30 dB 5/5 1 1 1 1 1 1 1 1 1 1 1 1	dBm K-value 2.4797:	42 dB	RBW 100 kH: VBW 300 kH: 	z Mode / M    1 pts  m	Auto Sweep 1[1] 2[1] M2		2.4 	2.18 dBm 79720 GHz 51.21 dBm 84048 GHz
Ref Leve           Att           SGL Count           SGL Count           IPk Max           10 dBm           -10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type	n 1 20.00 dBm 30 dB 5/5 201 -18.300 M3 MHz MHz	dBm	42 dB 65 ms	RBW 100 kH: VBW 300 kH: 	2 2 Mode A M M M M M M M M M M M M M M M M M	Auto Sweep 1[1] 2[1] M2		2.4 	2.18 dBm 79720 GHz 51.21 dBm 84048 GHz
Ref Leve           Att           SGL Count           SGL Count           IPk Max           10 dBm           -10 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2           M3           M4	n I 20.00 dBm 30 dB 5/5 201 -18.300 M3 MHz MHz f Trc 1 1 1 1	Contraction of the second seco	42 dB 65 ms 65 ms 42 dB 42 dB	RBW 100 kH: VBW 300 kH:	z Mode / M: 	Auto Sweep 1[1] 2[1] M2		2.4 	2.18 dBm 79720 GHz 51.21 dBm 84048 GHz
Ref Leve           Att           SGL Count           IPk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type         Re           M1           M2           M3	n I 20.00 dBm 30 dB 5/5 201 -18.300 MHz MHz f Trc 1 1 1 1	Contraction of the second seco	42 dB 65 ms 65 ms 42 dB 42 dB	RBW 100 kH: VBW 300 kH: 300	z Mode / M: 	Auto Sweep 1[1] 2[1] M2		2.4 	2.18 dBm 79720 GHz 51.21 dBm 84048 GHz

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## 8.7 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	3.97	30	Pass
NVNT	BLE 2M	2440	Ant1	2.39	30	Pass
NVNT	BLE 2M	2480	Ant1	3.74	30	Pass

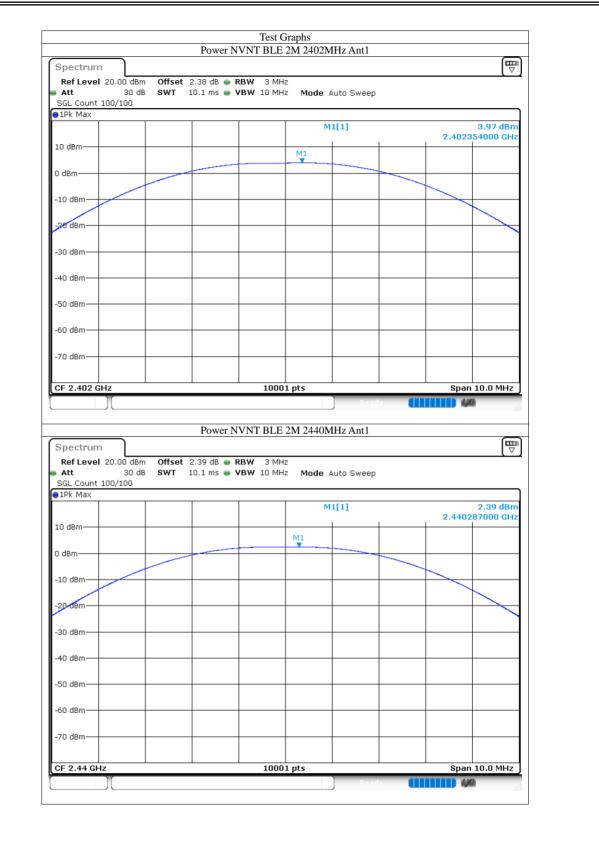


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# Report No ·





Spectrum	Po	wer NVNT BLE 2M	1 2480MHz Anti		₽
Ref Level 20.00 d Att 30 SGL Count 100/100		dB <b>e RBW</b> 3 MHz ns <b>e VBW</b> 10 MHz	Mode Auto Sweep		
1Pk Max			M1[1]		3.74 dBm
10 dBm		M1		2.479	597000 GHz
) dBm					
10 dBm					
28 dBm					$\searrow$
30 dBm					
40 dBm					
50 dBm					
-60 dBm					
-70 dBm					
, o ubm					
CF 2.48 GHz		10001 p	ts	Spar	n 10.0 MHz

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### 8.8 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.159	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.167	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.226	0.5	Pass



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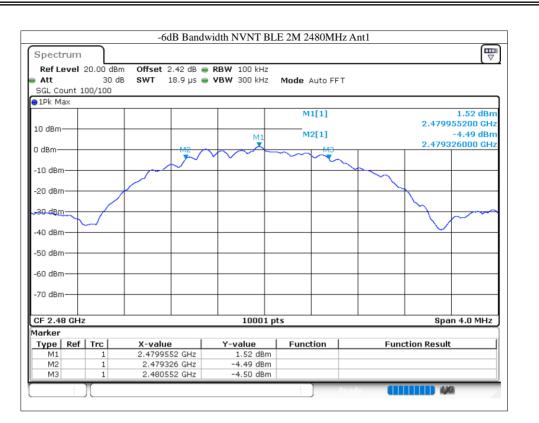
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Certificate #4298.01

#### Report No.: S23072005407002







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### 8.9 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.055
NVNT	BLE 2M	2440	Ant1	2.075
NVNT	BLE 2M	2480	Ant1	2.067



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## 8.10 MAXIMUM POWER SPECTRAL DENSITY LEVEL

0.10								
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-15.21	0	-15.21	8	Pass
NVNT	BLE 2M	2440	Ant1	-16.86	0	-16.86	8	Pass
NVNT	BLE 2M	2480	Ant1	-15.31	0	-15.31	8	Pass



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		PSD NVNT BLE 2	araphs M 2402MHz Ant1		
SGL Count 6000/6	0 dB <b>SWT</b> 63	8 dB <b>e RBW</b> 3 kHz 2 µs <b>e VBW</b> 10 kHz			
1Pk Max			M1[1]		-15.21 dBm
10 dBm				2	.401962450 GHz
0 dBm					
-10 dBm		M1			
-20 dBm	of she puch hand the	han an a	where and where a superior	marter twee hard with the seals	
-30 dBm					an and the property of the state
-40 dBm					
-50 dBm					
-60 dBm					
-70 dBm					
CF 2.402 GHz		1000			
Spectrum	dom Officiation	PSD NVNT BLE 2		ady <b>()</b>	pan 1.7385 MHz ) ↓ ↓/4 ↓ ↓
Spectrum Ref Level 20.00 Att 3	0 dB <b>SWT</b> 632		2 Pro	Sj	
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100	0 dB <b>SWT</b> 632	PSD NVNT BLE 2 39 db <b>• RBW</b> 3 kH	2 Pro	adv	. ₩
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max	0 dB <b>SWT</b> 632	PSD NVNT BLE 2 39 db <b>• RBW</b> 3 kH	M 2440MHz Ant1 Z Mode Auto FFT	adv	
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max 10 dBm	0 dB <b>SWT</b> 632	PSD NVNT BLE 2 39 db <b>• RBW</b> 3 kH	M 2440MHz Ant1 Z Mode Auto FFT	adv	. ₩
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm	0 dB SWT 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1 M 2440MHz Ant1 Mu[1]	2	-16.86 dBm .439962540 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm	0 dB SWT 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1 M 2440MHz Ant1 Mu[1]	2	-16.86 dBm .439962540 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm	0 dB <b>SWT</b> 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1 M 2440MHz Ant1 Mu[1]	adv	-16.86 dBm .439962540 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm	0 dB SWT 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1 M 2440MHz Ant1 Mu[1]	2	-16.86 dBm .439962540 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 9 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	0 dB SWT 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1 M 2440MHz Ant1 Mu[1]	2	-16.86 dBm .439962540 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -50 dBm	0 dB SWT 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1 M 2440MHz Ant1 Mu[1]	2	-16.86 dBm .439962540 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/100 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -50 dBm -50 dBm -60 dBm	0 dB SWT 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1 M 2440MHz Ant1 Mu[1]	2	-16.86 dBm .439962540 GHz
Spectrum Ref Level 20.00 Att 33 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm 10 dBm	0 dB SWT 632	PSD NVNT BLE 2 39 dB ● RBW 3 kH .2 µs ● VBW 10 kH	M 2440MHz Ant1  2 Mode Auto FFT  M1[1]  4 Muture Auto FFT  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ndv	-16.86 dBm .439962540 GHz



Spectrum		T BLE 2M 2480MHz Ant1	
Ref Level         20.00 dB           Att         30 d           SGL Count         100/100	_		
1Pk Max		M1[1]	-15.31 dBm 2.479962670 GHz
0 dBm			
) dBm			
10 dBm		M1	
20 dBm	when puter while to be made and	here and a state of the second of the	your while have me and when
30 dBm			
50 dBm			
60 dBm			
70 dBm			

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## 8.11 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-53.16	-20	Pass
NVNT	BLE 2M	2480	Ant1	-55.27	-20	Pass



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	Pos	nd Edge N	Test G		Hz Antl E	Pef			
Spectrum	Dal	na Euge P	AVIAL DLE	21VI 2402IVI					E
Spectrum Ref Level 20.00 dBm	Offect 2.3		<b>BW</b> 100 kHz						(⊽)
Att 35 dB			BW 300 kHz	Mode Au	ito FFT				
SGL Count 1500/1500		·							
1Pk Max									
				M1	[1]		2.40	2.74 19840	dBm 1 GHz
.0 dBm							- 2.10		5 GHZ
			M	1					
I dBm			$+\infty$	V-A-				_	
				<u>ل</u> ر	、 、				
10 dBm					$\mathcal{A}$				
		- /							
20 dBm									
30 dBm					<u>\</u>				
30 UBIII		3			L	N K			
40 dBm		V							
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50 dBm							$\lambda_{n}$	0-0	
m							~~~	$\neg$	$\sim$
60 dBm								_	
70 dBm									
	1 1		1 1			1			
GF 2.402 GHz	Band	Edge NV	1001 NT BLE 2M		Pead Ant1 Emi	ssion	Sp	oan 8.0	MHz
Spectrum Ref Level 20.00 dBm	n Offset 2.	38 dB 👄 I	NT BLE 2M	1 2402MHz		ssion	Sp	an 8.0	MHz
Spectrum	n Offset 2.	38 dB 👄 I	NT BLE 2M	1 2402MHz		ssion	Sp	an 8.0	
Spectrum Ref Level 20.00 dBm Att 35 dB	n Offset 2.	38 dB 👄 I	NT BLE 2M	1 2402MHz		ssion	Sp	an 8.0	
Spectrum Ref Level 20.00 dBm Att 35 dB 5GL Count 100/100	n Offset 2.	38 dB 👄 I	NT BLE 2M	I 2402MHz z z Mode A		ssion		1.22	dBm
Spectrum Ref Level 20.00 dBm Att 35 dB 5GL Count 100/100	n Offset 2.	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1]	ssion		1.22 11.22 1195000	dBm O GHz
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 0 dBm	n Offset 2.	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT	ssion	2.40	1.22	dBm O GHz √dBm
Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 0 dBm	n Offset 2.	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1]	ssion	2.40	1.22 1195000 -29.98	dBm O GHz √dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 0 dBm 10 dBm	Offset 2. SWT 22	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1]	ssion	2.40	1.22 1195000 -29.98	dBm O GHz √dBm
Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 0 dBm	Offset 2. SWT 22	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1]	ssion	2.40	1.22 1195000 -29.98 0000000	dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm	Offset 2. SWT 22	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1]	ssion	2.40	1.22 1195000 -29.98	dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm           30 dBm	Offset 2. SWT 22	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1]	ssion	2.40	1.22 1195000 -29.98 0000000	dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm	Offset 2. SWT 22	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1]	ssion	2.40	1.22 1195000 -29.98 0000000	dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm	2 dBm	38 dB ● F 7.5 µs ● N	NT BLE 2M	1 2402MHz 2 Mode A M1 M2	uto FFT [1] 2[1]		2.40 2.40		dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           Att 35 dB           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm	2 dBm	38 dB 👄 I	NT BLE 2M	I 2402MHz 2 Mode A M1	uto FFT [1] 2[1]		2.40 2.40		dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm	2 dBm	38 dB ● F 7.5 µs ● N	NT BLE 2M	1 2402MHz 2 Mode A M1 M2	uto FFT [1] 2[1]		2.40 2.40		dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           Att 35 dB           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm	2 dBm	38 dB ● F 7.5 µs ● N	NT BLE 2M	1 2402MHz 2 Mode A M1 M2	uto FFT [1] 2[1]		2.40 2.40		dBm O GHz MdBm JTCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           70 dBm	2 dBm	38 dB ● F 7.5 µs ● N	NT BLE 2M	1 2402MHz 2 Mode A M1 M2	uto FFT [1] 2[1]		2.40 2.40	1.22 0195000 -29.98 0000000	dBm OGHz MBm JCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           70 dBm           70 dBm           70 dBm           70 dBm	2 dBm	38 dB ● F 7.5 µs ● N	NT BLE 2M	1 2402MHz 2 Mode A M1 M2	uto FFT [1] 2[1]		2.40 2.40		dBm OGHz MBm JCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           70 dBm           70 dBm           70 dBm           70 dBm	2 dBm	38 dB ● F 7.5 µs ● N	NT BLE 2M	I 2402MHz Z Mode A M1 M2	uto FFT		2.40 2.40		dBm OGHz MBm JCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           70 dBm           70 dBm           70 dBm           70 dBm	2 dBm	38 dB ● F 7.5 µs ● N	NT BLE 2M	I 2402MHz Z Mode A M1 M2 pts Funct	uto FFT		2.40 2.40		dBm DGHz MBm TCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           20 dBm           20 dBm           30 dBm           40 dBm           50 dBm           70 dBm           70 dBm           70 dBm           70 dBm           70 dBm           71 dBm           72 dBm           70 dBm           11 mm           12 mm           13 mm	2 dBm X-value 2.4019 2.4019 2.	38 dB ● F 7.5 µs ● N 	NT BLE 2M	۲ 2402MHz ۲ 2 Mode A ۲ 1 ۲ 2 Mode A ۲ 1 ۲ 1 ۲ 1 ۲ 1 ۲ 1 ۲ 1 ۲ 1 ۲ 1 ۲ 1 ۲ 1	uto FFT		2.40 2.40		dBm DGHz MBm TCHz
Spectrum           Ref Level 20.00 dBm           SGL Count 100/100           1Pk Max           0 dBm           10 dBm           10 dBm           20 dBm           10 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           70 dBm           71 dBm           72 dBm           73 dBm           74 dBm           75 dBm           70 dBm           70 dBm           70 dBm           70 dBm           10 dBm           11 dBm	2 dBm X-value 2.4019 2.4019 2.	38 dB ● F 7.5 µs ● N 5 GHz 4 GHz 9 GHz	NT BLE 2M	I 2402MHz Z Mode A M1 M2 M2 M2 M3 M2 M4 M2 M4 M2 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	uto FFT		2.40 2.40		dBm DGHz MBm TCHz



			BW 100 kHz BW 300 kHz	Mode A	uto FFT			
00/200								
				M	1[1]		2 470	2.67 dBm 98400 GHz
							2.175	50 100 0112
				~~~				
			V <sup>J</sup> r.	<u> </u>	2			
		2			$\langle \rangle$			
	- pm				$\rightarrow$	~~		
	$\left( \right)$	$\checkmark$			$\sim$			
м	~					5		
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			1001	pts			Spa	n 8.0 MHz
35 dB					uto FFT			
				M	1[1]			1.37 dBm
								45000 GHz
					2[1]			53.72 dBm 50000 GHz
1 -17.325	dBm							
	M3 WWWWWWWWW	morebyne	Mycummethelige	An Market Marcos	hunderhand	unuulupati	and all the second	May maly marked
numun							-	
Nummer and								
n								
			1001	pts			Stop '	2.576 GHz
GHz			1001					2.576 GHz
GHz	X-value 2.4804		1001 Y-value 1.37 dBr	Fund	ion	Func	Stop : tion Result	
GHz	X-value 2.4804 2.483		Y-value	Funct n	ion	Func		
	35 dB 00/100	Band 0.00 dBm Offset 2 35 dB SWT 22	Band Edge NVI Band Edge NVI 0.00 dBm Offset 2.42 dB ● F 35 dB SWT 227.5 µs ● N 00/100		ла собрание и политически политич политически политически полити	Mt	And Edge NVNT BLE 2M 2480MHz Ant1 Emission	2.479

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## 8.12 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-54.39	-20	Pass
NVNT	BLE 2M	2440	Ant1	-52.19	-20	Pass
NVNT	BLE 2M	2480	Ant1	-53.45	-20	Pass



		Tv	Sourious	Test Ga		Hz Ant 1 R	Ref		
<b>a</b> .		1	spurious	TIVIII DEE	2111 2402111				m
Spectrum									
Ref Level Att	20.00 dBm 30 dB			RBW 100 kHz VBW 300 kHz					
SGL Count		, awr 18	כן ביי 🖷	TOTY JUUKHZ	mode Aut				
1Pk Max	, 2250								
					M1[:	1]			2.98 dBm
					1			2.401	98500 GHz
LO dBm				ML					
						$\sim$			
) dBm				$\checkmark \sim \rightarrow$		~~~			
10 10-	_	$\sim$					$\sim$		
10 dBm								$\sim$	
20 dBm - 🗸									
									$\mathbf{X}$
30.dBm									
SU UBM									
40 dBm									~
-o ubli									
50 dBm									
SS abii									
60 dBm									
70 dBm									
CF 2.402 G				1001				<b>O</b>	- 0.0 M
		Tx. Spu	irious N	1001 VNT BLE 2N		Peady Ant1 Emi	ission	Spa	n 3.0 MHz
				VNT BLE 2M	] 4 2402MHz :	Reads Ant1 Emi	ission	Spa	n 3.0 MHz
Ref Level	20.00 dBm	Offset 2.3	38 dB 👄	VNT BLE 2M	4 2402MHz		ission	Spa	
Ref Level Att	20.00 dBm 30 dE	Offset 2.3	38 dB 👄	VNT BLE 2M	4 2402MHz		ission	Spa	
Ref Level Att SGL Count	20.00 dBm 30 dE	Offset 2.3	38 dB 👄	VNT BLE 2M	4 2402MHz		ission	Spa	
Ref Level Att SGL Count	20.00 dBm 30 dE	Offset 2.3	38 dB 👄	VNT BLE 2M	4 2402MHz	to Sweep	ission	Spa	
Ref Level Att SGL Count 1Pk Max	20.00 dBm 30 dE	Offset 2.3	38 dB 👄	VNT BLE 2M	1 2402MHz . Mode Aut	to Sweep 1]	ssion		0.29 dBm 2.3970 GHz
Ref Level Att SGL Count 1Pk Max .0 dBm	20.00 dBm 30 dE	Offset 2.3	38 dB 👄	VNT BLE 2M	A 2402MHz .	to Sweep 1]	ission		0.29 dBm 2.3970 GHz 51.42 dBm
Ref Level Att SGL Count 1Pk Max	20.00 dBm 30 dE	Offset 2.3	38 dB 👄	VNT BLE 2M	1 2402MHz . Mode Aut	to Sweep 1]	ission		0.29 dBm 2.3970 GHz
Ref Level Att SGL Count (1Pk Max 0 dBm 10 dBm	20.00 dBm 30 dE 10/10	0 Offset 2	38 dB 👄	VNT BLE 2M	1 2402MHz . Mode Aut	to Sweep 1]	ission		0.29 dBm 2.3970 GHz 51.42 dBm
Ref Level Att SGL Count (1Pk Max 0 dBm 10 dBm	20.00 dBm 30 dE 10/10	0 Offset 2	38 dB 👄	VNT BLE 2M	1 2402MHz . Mode Aut	to Sweep 1]	ission		0.29 dBm 2.3970 GHz 51.42 dBm
Ref Level Att SGL Count (1Pk Max 0 dBm 0 dBm 10 dBm 20 dBm	20.00 dBm 30 dE 10/10	0 Offset 2	38 dB 👄	VNT BLE 2M	1 2402MHz . Mode Aut	to Sweep 1]	ission		0.29 dBm 2.3970 GHz 51.42 dBm
Ref Level Att SGL Count (1Pk Max 0 dBm 0 dBm 10 dBm 20 dBm	20.00 dBm 30 dE 10/10	0 Offset 2	38 dB 👄	VNT BLE 2M	1 2402MHz . Mode Aut	to Sweep 1]	ission		0.29 dBm 2.3970 GHz 51.42 dBm
Ref Level Att SGL Count 11Pk Max 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm	20.00 dBm 30 dE 10/10	0 Offset 2	38 dB 👄	VNT BLE 2M	4 2402MHz : : Mode Aut 	to Sweep 1]	ission		0.29 dBm 2.3970 GHz 51.42 dBm
Ref Level Att SGL Count IPk Max 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm	20.00 dBm 30 dE 10/10	0 Offset 2	38 dB 👄	VNT BLE 2M	4 2402MHz . Mode Aut M1[: 	to Sweep 1] 1]			0.29 dBm 2.3970 GHz 51.42 dBm 5.9649 GHz
Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	20.00 dBm 30 dE 10/10	dBm	38 dB 👄	VNT BLE 2M	4 2402MHz . Mode Aut M1[: M2[: M2	to Sweep	ission		0.29 dBm 2.3970 GHz 51.42 dBm
Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	20.00 dBm 30 dE 10/10	dBm	38 dB ● 55 ms ●	VNT BLE 2M	4 2402MHz . Mode Aut M1[: 	to Sweep 1] 1]			0.29 dBm 2.3970 GHz 51.42 dBm 5.9649 GHz
Ref Level Att SGL Count IPR Max 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	20.00 dBm 30 dE 10/10	dBm	38 dB ● 55 ms ●	VNT BLE 2M	4 2402MHz . Mode Aut M1[: 	to Sweep 1] 1]			0.29 dBm 2.3970 GHz 51.42 dBm 5.9649 GHz
Ref Level Att SGL Count IPk Max 0 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 70 dBm	20.00 dBm 30 dE 10/10	dBm	38 dB ● 55 ms ●	VNT BLE 2N	1 2402MHz . Mode Aut M1[: M2[: M2[: M2[: M2[: M2[: M2]	to Sweep 1] 1]		2 	0.29 dBm 2.3970 GHz 51.42 dBm 5.9649 GHz
Ref Level Att           SGL Count           SGL Count           IPk Max           0 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           50 dBm           70 dBm           Start 30.0	20.00 dBm 30 dE 10/10	dBm	38 dB ● 55 ms ●	VNT BLE 2M	1 2402MHz . Mode Aut M1[: M2[: M2[: M2[: M2[: M2[: M2]	to Sweep 1] 1]		2 	0.29 dBm 2.3970 GHz 51.42 dBm 5.9649 GHz
Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 70 dBm 70 dBm 70 dBm	20.00 dBm 30 dE 10/10 D1 -17.021	dBm	38 dB ● 55 ms ●	VNT BLE 2N RBW 100 kHz VBW 300 kHz	1 2402MHz. Mode Aut M1[: M2[: M2[: M2[: M2]: M2[: M2]: M2	1] 1] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4,51,71+417414,844	, , , , , , , , , , , , , , , , , , ,	0.29 dBm 2.3970 GHz 5.9649 GHz
Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm 70 dBm	20.00 dBm 30 dE 10/10 D1 -17.021	dBm M4 M4 X-value	38 dB ● 55 ms ● 	VNT BLE 2N RBW 100 kHz VBW 300 kHz AU AU AU AU AU AU AU AU AU AU	1 2402MHz . Mode Aut M1[: M2[: M2[: M2[: M2]: M2 M2[: M2]: M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	1] 1] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4,51,71+417414,844	2 	0.29 dBm 2.3970 GHz 5.9649 GHz
Att SGL Count 1Pk Max	20.00 dBm 30 dE 10/10 D1 -17.021	Contract 2.3 SWT 26 SWT 26 Contract 2.391 Contract 2.391	38 dB ● 55 ms ● 	VNT BLE 2N RBW 100 kHz VBW 300 kHz	1 2402MHz : Mode Aut M1[: M2[: M	1] 1] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4,51,71+417414,844	, , , , , , , , , , , , , , , , , , ,	0.29 dBm 2.3970 GHz 5.9649 GHz
Ref Level Att           SGL Count           SGL Count           11Pk Max           10 dBm           0 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           70 dBm           70 dBm           30 dBm           70 dBm           70 dBm           30 dBm           70 dBm           31 dBm           70 dBm           32 dBm           33 dBm           70 dBm           31 dBm           32 dBm           33 dBm           34 dBm           35 dBm           36 dBm           37 dBm           38 dBm           39 dBm           30 dBm      >	20.00 dBm 30 dE 10/10 D1 -17.021	D Offset 2.3 SWT 26 SWT 26 dBm dBm M4 supervise for the supervised of the supe	38 dB ● 55 ms ● 	VNT BLE 2N  RBW 100 kHz  VBW 300 kHz  UBW 300 kHz  UBW 300 kHz  I UBW 300 kHz  I UBW 300 kHz I UBW 3	1 2402MHz. Mode Aut M1[: M2	1] 1] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4,51,71+417414,844	, , , , , , , , , , , , , , , , , , ,	0.29 dBm 2.3970 GHz 5.9649 GHz
Ref Level Att           SGL Count           SGL Count	20.00 dBm 30 dE 10/10 D1 -17.021	A Offset 2.3 SWT 26 SWT 26 ABM ABM ABM ABM ABM ABM ABM ABM ABM ABM	38 dB  55 ms  55 ms  7 GHz  9 GHz  7 GHz  7 GHz  9 GHz  7 GHz  9	VNT BLE 2N RBW 100 kHz VBW 300 kHz VBW 300 kHz I I I I I I I I I I I I I I I I I I I	Mode Aut Mode Aut M1[: M2[: M2[: M2[: M2[: M2[: M2[: M2[: M2	1] 1] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4,51,71+417414,844	, , , , , , , , , , , , , , , , , , ,	0.29 dBm 2.3970 GHz 5.9649 GHz
Ref Level Att           SGL Count           1Pk Max           0 dBm           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm           40 dBm           50 dBm           60 dBm           60 dBm           50 dBm           60 dBm           60 dBm           50 dBm           60 dBm           61 dBm           62 dBm           63 dBm           64 dBm           65 dBm           65 dBm           66 dBm           67 dBm           68 dBm           68 dBm           68 dBm           68 dBm           68 dBm           68 dBm	20.00 dBm 30 dE 10/10 D1 -17.021	D Offset 2.3 SWT 26 SWT 26 dBm dBm M4 supervise for the supervised of the supe	38 dB  55 ms  55 ms  7 GHz  9 GHz  7 GHz  7 GHz  9 GHz  7 GHz  9	VNT BLE 2N  RBW 100 kHz  VBW 300 kHz  UBW 300 kHz  UBW 300 kHz  I UBW 300 kHz  I UBW 300 kHz I UBW 3	Mode Aut Mode Aut M1[: M2[: M2[: M2[: M2[: M2[: M2[: M2[: M2	1] 1] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4,51,71+417414,844	, , , , , , , , , , , , , , , , , , ,	0.29 dBm 2.3970 GHz 5.9649 GHz

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Spectrum Ref Level 20 Att GGL Count 300	30 dB			<b>RBW</b> 100 kHz <b>VBW</b> 300 kHz		Auto FFT			
1Pk Max	,								
					м	1[1]		0.400	1.45 dBm
0 dBm								2.439	98500 GHz
				м					
dBm			$\sim$						
					~		$\mathbf{h}$		
10 dBm							,	$\sim$	
20 dBm									
									$\mathbf{i}$
30 dBm				+ +					
40 dBm									$\sim$
50 dBm				+					
50 dBm									
70 dBm									
F 2.44 GHz				1001	pts			Spa	n 3.0 MHz
						Re	ady 🔲		1
Spectrum	ר	Tx. Spu	irious N	VNT BLE 2N	1 2440MH	Iz Ant1 F	Emission		
-	30 dB	Offset 2.3	39 dB 👄	VNT BLE 2N RBW 100 kHz VBW 300 kHz	:				
Ref Level 20 Att	30 dB	Offset 2.3	39 dB 👄	<b>RBW</b> 100 kHz	: Mode /	Auto Swei			
Ref Level 20 Att GGL Count 30/ 1Pk Max	30 dB	Offset 2.3	39 dB 👄	<b>RBW</b> 100 kHz	: Mode /				-1.66 dBm 2.4500 GHz
Ref Level 20 Att GGL Count 30/ 1Pk Max 0 dBm	30 dB	Offset 2.3	39 dB 👄	<b>RBW</b> 100 kHz	Mode /	Auto Swei		-	-1.66 dBm 2.4500 GHz 50.74 dBm
ARef Level 20 Att SGL Count 30/ 1Pk Max 0 dBm dBm	30 dB	Offset 2.3	39 dB 👄	<b>RBW</b> 100 kHz	Mode /	Auto Swee		-	-1.66 dBm 2.4500 GHz
Ref Level 20 Att SGL Count 30/ 1Pk Max 0 dBm dBm 10 dBm	30 dB	Offset 2.3 SWT 26	39 dB 👄	<b>RBW</b> 100 kHz	Mode /	Auto Swee		-	-1.66 dBm 2.4500 GHz 50.74 dBm
ARef Level 20 Att SGL Count 30/ 1Pk Max 0 dBm dBm	30 dB	Offset 2.3 SWT 26	39 dB 👄	<b>RBW</b> 100 kHz	Mode /	Auto Swee		-	-1.66 dBm 2.4500 GHz 50.74 dBm
Ref Level 20 Att SGL Count 30/ 1Pk Max 0 dBm dBm 10 dBm	30 dB	Offset 2.3 SWT 26	39 dB 👄	<b>RBW</b> 100 kHz	Mode /	Auto Swee		-	-1.66 dBm 2.4500 GHz 50.74 dBm
Ref Level 20           Att           GGL Count 30/           1Pk Max           0 dBm           M1           dBm           10 dBm           20 dBm           D1	30 dB	Offset 2.3 SWT 26	39 dB 👄	<b>RBW</b> 100 kHz	Mode /	Auto Swee		-	-1.66 dBm 2.4500 GHz 50.74 dBm
Ref Level 20           Att           GGL Count 30/           1Pk Max           0 dBm           0 dBm           10 dBm           20 dBm           10 dBm           20 dBm           10 dBm           50 dBm	30 dB 30 -18.548	Offset 2.3 SWT 26	39 dB	RBW 100 kHz YBW 300 kHz	Mode /	Auto Swee		10	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           GGL Count 30//           IPk Max           0 dBm           10 dBm           20 dBm           10 dBm           10 dBm           50 dBm	30 dB	Offset 2.3 SWT 26	39 dB 🖷	RBW 100 kHz YBW 300 kHz	Mode /	Auto Swee		-	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           SGL Count 30/:           IPk Max           0 dBm           dBm           10 dBm           20 dBm           130 dBm           40 dBm           50 dBm           50 dBm	30 dB 30 -18.548	Offset 2.3 SWT 26	39 dB	RBW 100 kHz YBW 300 kHz	Mode /	Auto Swee		10	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           GGL Count 30//           IPk Max           0 dBm           10 dBm           20 dBm           10 dBm           10 dBm           50 dBm	30 dB 30 -18.548	Offset 2.3 SWT 26	39 dB	RBW 100 kHz YBW 300 kHz	Mode /	Auto Swee		10	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           SGL Count 30/:           IPk Max           0 dBm           dBm           10 dBm           20 dBm           130 dBm           40 dBm           50 dBm           50 dBm	30 dB 30 -18.548 -18.548	Offset 2.3	39 dB	RBW 100 kHz YBW 300 kHz	: Mode / M 	Auto Swee		internet function	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           GGL Count 30/           IPk Max           0 dBm           0 dBm           10 dBm           20 dBm           10 dBm           50 dBm           50 dBm           70 dBm           70 dBm           70 dBm           70 dBm           70 dBm           70 dBm	30 dB 30 -18.548 M2 au/wepuire	dBm	39 dB 55 ms	RBW 100 kHz VBW 300 kHz	Mode /	Auto Swee		i i white and the store Stop	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           GGL Count 30/           IPk Max           0 dBm           0 dBm           10 dBm           20 dBm           10 dBm           50 dBm           50 dBm           70 dBm           70 dBm           70 dBm           70 dBm	30 dB 30 -18.548 M2 au/wepuire	dBm	39 dB 55 ms	RBW         100 kHz           VBW         300 kHz	Mode / M M س/میل pts	Auto Swee		internet function	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           GGL Count 30/           IPk Max           0 dBm           0 dBm           10 dBm           20 dBm           10 dBm           30 dBm           40 dBm           50 dBm           70 dBm	30 dB 30 -18.548 -18.548 z z z rrc 1 1	Contract 2.3 SWT 26 dBm dBm X-value 2.45 16.755	39 dB 55 ms	RBW 100 kHz VBW 300 kHz	۲ Mode / ۲ M ۲ M ۲ M ۲ M ۲ M	Auto Swee		i i white and the store Stop	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           GGL Count 30/           IPK Max           0 dBm           dBm           0 dBm           10 dBm           20 dBm           10 dBm           10 dBm           50 dBm           50 dBm           50 dBm           70 dBm           tart 30.0 MH;           arker           Type           M1	30 dB 30 -18.548 -18.548 	Contract 2.3 SWT 26 Contract 2.4 SWT 26 Contract 2.4 Contract 2.4 Cont	39 dB 55 ms 55 ms	RBW         100 kHz           VBW         300 kHz	: Mode /  	Auto Swee		i i white and the store Stop	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz
Ref Level 20           Att           GGL Count 30/           IPk Max           0 dBm           M1           dBm           10 dBm           20 dBm           10 dBm           30 dBm           40 dBm           50 dBm           70 dBm           70 dBm           70 dBm           70 dBm           70 dBm           M1           M1           M1           M2           M3	30 dB 30 -18.548 -18.548 zz z z	Contract 2.3 SWT 26 dBm dBm X-value 2.44 16.755 4.9534	39 dB 55 ms 55 ms	RBW 100 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz VE VE VE VE VE VE VE VE VE VE	: Mode / M M M M M M M M M M M M M	Auto Swee		i i white and the store Stop	-1.66 dBm 2.4500 GHz 50.74 dBm 5.7590 GHz

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Ref Level Att SGL Count	30			42 dB 👄 ∣ 3.9 µs 👄 '			Mode	Auto FFT			
●1Pk Max							N	1[1]			2.39 dBm
10 dBm								1	1	2.47	998200 GHz
TO UBIII						M					
0 dBm				$\sim$	$\leftarrow$	-4	~~~				
-10 dBm		<u>_</u> _	<								
										$ $ $\searrow$	
-20 dBm											
-30 dBm											
-40 dBm		_									
-50 dBm											
-60 dBm											+
-70 dBm		_									
CF 2.48 GH	lz				· · · ·	1001	pts			Sp	an 3.0 MHz
Ref Level Att	ـــ ا 20.00 c 30	Bm Off	fset 2.4	42 dB 👄	RBW 1	00 kHz		Hz Ant1 En			
Ref Level Att SGL Count	ـــ ا 20.00 c 30	Bm Off	fset 2.4	42 dB 👄	RBW 1	00 kHz	Mode	Auto Sweej			
Ref Level Att SGL Count 1Pk Max	ـــ ا 20.00 c 30	Bm Off	fset 2.4	42 dB 👄	RBW 1	00 kHz	Mode	Auto Sweej			-0.83 dBm 2.4760 GHz
Ref Level Att SGL Count 1Pk Max 10 dBm	ـــ ا 20.00 c 30	Bm Off	fset 2.4	42 dB 👄	RBW 1	00 kHz	Mode	Auto Sweej			-0.83 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm	ـــ ا 20.00 c 30	Bm Off	fset 2.4	42 dB 👄	RBW 1	00 kHz	Mode	Auto Sweej			-0.83 dBm 2.4760 GHz -51.07 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	ـــ ا 20.00 c 30	Bm Off dB SW	fset 2.4	42 dB 👄	RBW 1	00 kHz	Mode	Auto Sweej			-0.83 dBm 2.4760 GHz -51.07 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	1 20.00 c 30 10/10	Bm Off dB SW	fset 2.4	42 dB 👄	RBW 1	00 kHz	Mode	Auto Sweej			-0.83 dBm 2.4760 GHz -51.07 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	1 20.00 c 30 10/10	Bm Off dB SW	fset 2.4	42 dB 👄	RBW 1	00 kHz	Mode N	Auto Swee			-0.83 dBm 2.4760 GHz -51.07 dBm
Mail         Mail           Att         SGL Count           SGL Count         10 dBm           10 dBm         M3           0 dBm         -10 dBm           -20 dBm         -30 dBm	1 20.00 c 30 10/10	Bm Off dB SW	fset 2.4 /T 26	42 dB • 1	RBW 1 VBW 3	00 kHz 00 kHz	Mode N N	Auto Swee			-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Mef Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	1 20.00 c 30 10/10	Bm Off dB SW	fset 2.4 /T 26	42 dB • 1	RBW 1 VBW 3	00 kHz 00 kHz	Mode N	Auto Swee			-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Mathematical SGL Count           10 dBm           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 20.00 c 30 10/10	Bm Off dB SW	fset 2.4 /T 26	42 dB • 1	RBW 1 VBW 3	00 kHz 00 kHz	Mode N N	Auto Swee			-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Mathematical Count           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	20.00 c 30 10/10	Bm Off dB SW	fset 2.4 /T 26	42 dB • 1	RBW 1 VBW 3	00 kHz 00 kHz	Mode N 	Auto Swee		د میں	-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0	D1 -17.6	Bm Off dB SW 09 dBm_ 13	Fset 2.4	42 dB • 1	RBW 1 VBW 3	00 kHz	Mode N N N N N N N N N N N N N N N N N N N	Auto Sween		n,wtw/that	-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Mef Level           Att           SGL Count           SGL Count           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm	D1 -17.6 MHz	Bm Off dB SW	Fset 2.4 /T 26	42 dB ● 1 55 ms ● 1 55 ms ● 1 2 2 2 2 2 3 5 GHz	RBW 1 VBW 3	00 kHz	Mode N N N N N N N N N N N N N N N N N N N	Auto Sween		د میں	-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2           M3	D1 -17.6	Bm Off dB SW	value 2.476 15.8591 4.9534	42 dB  15 ms 15 ms 1 5 GHz 1 G	<b>RBW</b> 1 <b>VBW</b> 3	00 kHz 00 kHz 100 kHz 1001 p 83 dBm 07 dBm 41 dBm	Mode	Auto Sween		n,wtw/that	-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -70 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2	D1 -17.6	Bm Off dB SW	Fset 2.4 /T 26	42 dB  44	<b>RBW</b> 1 <b>yBW</b> 3	00 kHz 00 kHz 100 kHz	Mode // // // // // // // // // /	Auto Sween		n,wtw/that	-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz
Att SGL Count SGL Count SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm Start 30.0 Marker Type Ref M1 M2 M3 M4	D1 -17.6 MHz f Trc 1 1 1 1 1 1 1 1	Bm Off dB SW	value 2.476 2.476 15.8591 4.9534 7.3622	42 dB  44	<b>RBW</b> 1 <b>yBW</b> 3	00 kHz 00 kHz 100 kHz 1001 p 1001 p 1001 p 100 d 83 dBm 83 dBm 7 dBm 44 dBm	Mode // // // // // // // // // /	Auto Sween		n,wtw/that	-0.83 dBm 2.4760 GHz -51.07 dBm 5.8591 GHz

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