

# RADIO TEST REPORT FCC ID:2AXP2-GK28

Product: GMMK 3 Trade Mark: GLORIOUS Model No.: GMMK 3 PRO HE 100% WIRELESS Family Model: GMMK 3 HE 100% WIRELESS Report No.: S24041703572001 Issue Date: May 22. 2024

# Prepared for

**Glorious LLC** 

13809 Research Blvd Suite 500 PMB 93206 Austin, TX 78750, USA

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn



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**TEST RESULT** 

Complied



# **1 TEST RESULT CERTIFICATION**

Glorious LLC		
13809 Research Blvd Suite 500 PMB 93206 Austin, TX 78750, USA		
Glorious LLC		
13809 Research Blvd Suite 500 PMB 93206 Austin, TX 78750, USA		
GMMK 3		
GMMK 3 PRO HE 100% WIRELESS		
GMMK 3 HE 100% WIRELESS		
S240417035072		
Apr 17. 2024 ~ May 22. 2024		

Measurement Procedure Used:

#### APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

ANSI C63.10-2013

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.

Prepared By - Mary H (Project Eng	Aaron Cheng (Supervisor)	Approved <u>Alex Li</u> By Alex Li (Manager)



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)Radiated Spurious Emission		PASS			
15.247 (e) Power Spectral Density PASS					
15.247 (d) Band Edge Emission PASS					
15.247 (d) Spurious RF Conducted Emission PASS					
15.203	Antenna Requirement	PASS			

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



# **3 FACILITIES AND ACCREDITATIONS**

#### 3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab. :	The 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, PSD	±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	
10	Occupied bandwidth	±4.7%	



# 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	GMMK 3			
Trade Mark	GLORIOUS			
FCC ID	2AXP2-GK28			
Model No.	GMMK 3 PRO HE 100% WIRELESS			
Family Model	GMMK 3 HE 100% WIRELESS			
Model Difference	All models have the same circuit and RF module, except for the shell color, shaft, and keycap.			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK			
Number of Channels	40 Channels			
Antenna Type	PCB Antenna			
Antenna Gain	1.16 dBi			
Power supply	DC 3.7V from battery or DC 5V from type-c port			
Adapter	N/A			
HW Version	V2.0			
SW Version	V104			
FW 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.



Certificate #4298.01 Revision History						
Report No.	Version	Description	Issued Date			
S24041703572001	Rev.01	Initial issue of report	May 22. 2024			



# 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

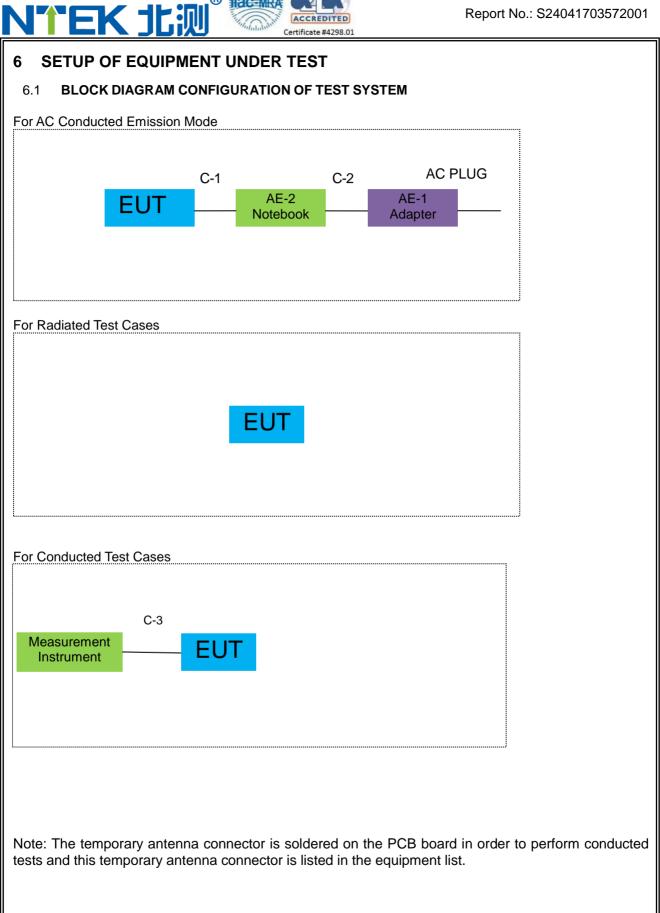
The following summary table is showing all test modes to demonstrate in compliance with the standard.

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 Cases	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 2Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 4. EUT built-in battery-powered, the battery is fully-charged.







#### 6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	DELL	HA65NS5-00	N/A	Peripherals
AE-2	Notebook	DELL	Inspiron 5493	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Type-C cable	NO	YES	2.0m
C-2	Power cable	NO	NO	1.0m
C-3	RF Cable	YES	NO	0.1m

#### Notes:

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



#### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

#### Radiation& Conducted Test equipment

N

Radiati	on& Conducted 1	est equipment					
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.03.12	2025.03.11	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.05.29	2024.05.28	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.03.12	2025.03.11	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	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	2022.03.31	2025.03.30	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2025.11.06	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2023.11.03	2026.11.02	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2023.05.29	2024.05.28	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2022.06.17	2025.06.16	3 year
16	Filter	TRILTHIC	2400MHz	29	2023.03.26	2026.03.25	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

AC Co	AC Conduction Test equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period	
1	Test Receiver	R&S	ESCI	101160	2024.03.12	2025.03.11	1 year	
2	LISN	R&S	ENV216	101313	2024.03.12	2025.03.11	1 year	
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.03.12	2025.03.11	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	

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



# 7 TEST REQUIREMENTS

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#### 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

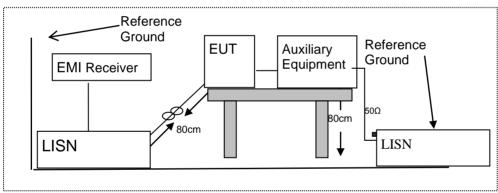
2. The lower limit shall apply at the transition frequencies

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

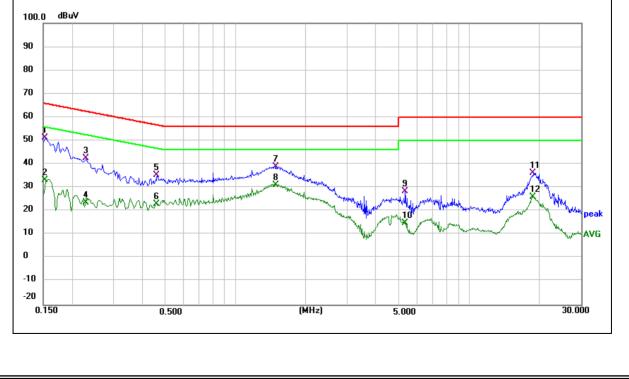
EUT:	GMMK 3		GMMK 3 PRO HE 100% WIRELESS
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	41.41	9.93	51.34	65.79	-14.45	QP
0.1539	23.18	9.93	33.11	55.79	-22.68	AVG
0.2280	32.41	10.10	42.51	62.52	-20.01	QP
0.2280	13.51	10.10	23.61	52.52	-28.91	AVG
0.4588	24.83	10.57	35.40	56.71	-21.31	QP
0.4588	12.56	10.57	23.13	46.71	-23.58	AVG
1.4900	26.43	12.64	39.07	56.00	-16.93	QP
1.4900	18.51	12.64	31.15	46.00	-14.85	AVG
5.3060	18.75	9.67	28.42	60.00	-31.58	QP
5.3060	5.28	9.67	14.95	50.00	-35.05	AVG
18.6860	26.65	9.72	36.37	60.00	-23.63	QP
18.6860	16.29	9.72	26.01	50.00	-23.99	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



Version.1.3





UT:	GMMK 3		Mode	I Name :	GMMK 3 PRO WIRELESS	HE 100%
emperature:	<b>22</b> ℃		Relat	ve Humidity:	57%	
ressure:	1010hPa		Phase	е:	N	
est Voltage :	DC 5V from AC 120V/6		Test N	Node:	Mode 1	
Frequency	Reading Level	Correct Factor	Measure-men	t Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	liteman
0.1768	40.40	9.99	50.39	64.63	-14.24	QP
0.1768	18.39	9.99	28.38	54.63	-26.25	AVG
0.4580	24.28	10.57	34.85	56.73	-21.88	QP
0.4580	14.68	10.57	25.25	46.73	-21.48	AVG
0.7019	24.07	11.05	35.12	56.00	-20.88	QP
0.7019	13.89	11.05	24.94	46.00	-21.06	AVG
1.3380	28.30	12.34	40.64	56.00	-15.36	QP
1.3380	19.06	12.34	31.40	46.00	-14.60	AVG
5.0620	18.76	9.67	28.43	60.00	-31.57	QP
5.0620	8.48	9.67	18.15	50.00	-31.85	AVG
						0.0
18.7260	26.16	9.72	35.88	60.00	-24.12	QP
18.7260 Remark: 1. All readings	26.16 16.09 are Quasi-Peak ertion Loss + Ca	9.72 and Average va	25.81	60.00 50.00	-24.12 -24.19	AVG
18.7260 Remark: 1. All readings 2. Factor = Inst 100.0 dBuV 90 80	16.09 are Quasi-Peak	9.72 and Average va	25.81			
18.7260 Remark: 1. All readings 2. Factor = Inse 100.0 dBuV	16.09 are Quasi-Peak	9.72 and Average va	25.81			
18.7260 Remark: 1. All readings 2. Factor = Ins 100.0 dBuV 90 80 70	16.09 are Quasi-Peak	9.72 and Average va	25.81			
18.7260 Remark: 1. All readings 2. Factor = Ins 100.0 dBuV 90 80 70 60	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81			
18.7260 Remark: 1. All readings 2. Factor = Inse 100.0 dBuV 90 80 70 60 50 40	16.09 are Quasi-Peak	9.72 and Average va	25.81			
18.7260 Remark: 1. All readings 2. Factor = Inst 100.0 dBuV 90 80 70 60 50	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81	50.00		
18.7260 Remark: 1. All readings 2. Factor = Inst 100.0 dBuV 90 80 70 60 50 40	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81			
18.7260     Remark:     1. All readings     2. Factor = Ins     100.0 dBuV     90     80     70     60     50     40     30     2 $2$	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81	50.00		AVG
18.7260 Remark: 1. All readings 2. Factor = Inst 100.0 dBuV 90 80 70 60 50 40 30 20	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81	50.00		AVG
18.7260     Remark:     1. All readings     2. Factor = Insi     100.0 dBuV     90     80     70     60     50     40     30     20     10     0	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81	50.00		AVG
18.7260 Remark: 1. All readings 2. Factor = Inse 100.0 dBuV 90 80 70 60 50 40 30 20 10 0 -10	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81	50.00		AVG
18.7260     Remark:     1. All readings     2. Factor = Insi     100.0 dBuV     90     80     70     60     50     40     30     20     10     0	16.09 are Quasi-Peak	9.72 and Average value Loss.	25.81	50.00		AVG

Version.1.3



#### 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 TCC Fait 13.20			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

#### Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
Frequency(wiriz)	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

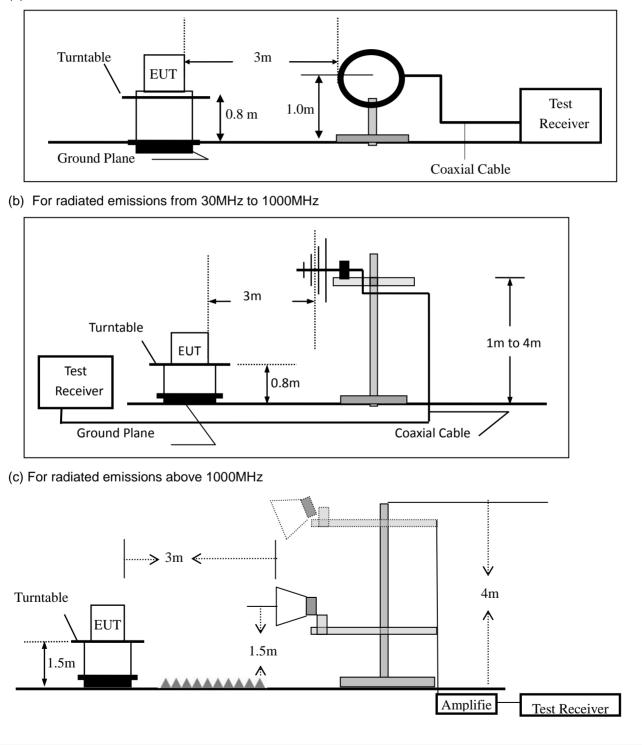


#### 7.2.3 Measuring Instruments

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 rac	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:						
Frequency	/ Band (MHz)	Function	Resolution bandwidth	Video Bandwidth			
30 t	o 1000	QP	120 kHz	300 kHz			
		Peak	1 MHz	1 MHz			
ADO	ve 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:	GMMK 3	Model No .	GMMK 3 PRO HE 100% WIRELESS
Temperature:	20 °C	Relative Humidity:	48%
Lest Mode.	Mode1/Mode2/Mode3/ Mode4	Test By:	Mary Hu

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.

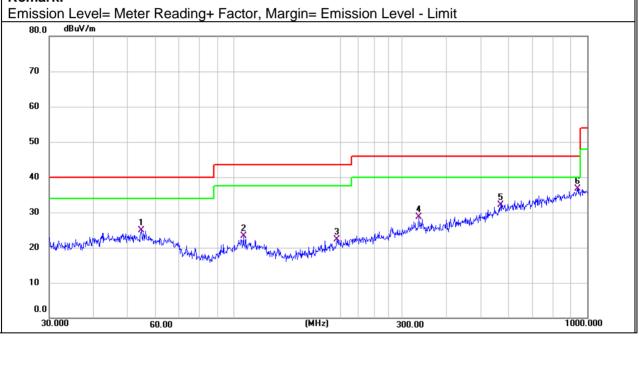


Spurious Emission below 1GHz (30MHz to 1GHz)
 All the modulation modes have been tested, and the worst result was report as below:

EUT:	GMMK 3	Model Name	GMMK 3 PRO HE 100% WIRELESS
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	GFSK (2M) CH00
Test Voltage :	DC 3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	54.6429	5.30	19.69	24.99	40.00	-15.01	QP
V	106.3850	5.49	17.73	23.22	43.50	-20.28	QP
V	195.8220	4.96	17.36	22.32	43.50	-21.18	QP
V	333.6867	7.78	20.89	28.67	46.00	-17.33	QP
V	568.6127	5.20	26.83	32.03	46.00	-13.97	QP
V	938.8326	5.65	30.96	36.61	46.00	-9.39	QP

Remark:





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	53.5052	5.18	19.50	24.68	40.00	-15.32	QP
Н	103.0800	4.35	17.48	21.83	43.50	-21.67	QP
Н	184.4898	5.20	16.42	21.62	43.50	-21.88	QP
Н	340.7817	7.00	21.17	28.17	46.00	-17.83	QP
Н	620.7096	6.23	27.01	33.24	46.00	-12.76	QP
Н	989.5355	6.23	31.11	37.34	54.00	-16.66	QP
Remark Emission	n Level= Meter I	Reading+ Fac	tor, Margin	= Emission Le	vel - Limit		
80.0	dBuV/m						
70 60							
50 —							
40 30					anon the source of the source	www. <sup>5</sup> top.m./www	6 WLWY
	wand ward ward	word winder her have been been been been been been been be	an mound property	3 ALAN AND AND AND AND AND AND AND AND AND A			
10							
0.0 30.00	00 61	0.00		MHz)	300.00		1000.000



■ Spurious Emission Above 1GHz (1GHz to 25GHz)										
EUT:	GI	MMK 3		Мо	lel No.:		GMMK 3 PRO HE 100% WIRELESS			
Temperature	nperature: 20 °C			Relative Humidity:			48%			
Test Mode:	Mo	ode2/Mo	de3/Mode4	Tes	t By:		Mary H	łu		
					-		_			
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Li	mits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	µV/m)	(dB)		
			Low Chan	nel (2402	2 MHz)(GFSK	()Ab	ove 10	6		
4804.56	68.97	5.21	35.59	44.30	65.47	74	4.00	-8.53	Pk	Vertical
4804.56	44.99	5.21	35.59	44.30	41.49	54	4.00	-12.51	AV	Vertical
7206.47	67.40	6.48	36.27	44.60	65.55	74	4.00	-8.45	Pk	Vertical
7206.47	45.41	6.48	36.27	44.60	43.56	54	4.00	-10.44	AV	Vertical
4804.84	68.42	5.21	35.55	44.30	64.88	74	4.00	-9.12	Pk	Horizontal
4804.84	45.36	5.21	35.55	44.30	41.82	54	4.00	-12.18	AV	Horizontal
7206.51	67.59	6.48	36.27	44.52	65.82	74	4.00	-8.18	Pk	Horizontal
7206.51	45.37	6.48	36.27	44.52	43.60	54	4.00	-10.40	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)Above 1G										
4880.41	68.30	5.21	35.66	44.20	64.97	74	4.00	-9.03	Pk	Vertical
4880.41	46.79	5.21	35.66	44.20	43.46	54	4.00	-10.54	AV	Vertical
7320.70	65.68	7.10	36.50	44.43	64.85	74	4.00	-9.15	Pk	Vertical
7320.70	45.06	7.10	36.50	44.43	44.23	54	4.00	-9.77	AV	Vertical
4880.13	65.95	5.21	35.66	44.20	62.62	74	4.00	-11.38	Pk	Horizontal
4880.13	46.77	5.21	35.66	44.20	43.44	54	4.00	-10.56	AV	Horizontal
7320.65	65.23	7.10	36.50	44.43	64.40	74	4.00	-9.60	Pk	Horizontal
7320.65	44.70	7.10	36.50	44.43	43.87	54	4.00	-10.13	AV	Horizontal
	-	-	High Chan	nel (2480	MHz)(GFSK	() Ab	oove 10	3		
4960.68	67.99	5.21	35.52	44.21	64.51	74	4.00	-9.49	Pk	Vertical
4960.68	45.02	5.21	35.52	44.21	41.54	54	4.00	-12.46	AV	Vertical
7440.74	65.01	7.10	36.53	44.60	64.04	74	4.00	-9.96	Pk	Vertical
7440.74	46.56	7.10	36.53	44.60	45.59	54	4.00	-8.41	AV	Vertical
4960.89	65.99	5.21	35.52	44.21	62.51	74	4.00	-11.49	Pk	Horizontal
4960.89	44.40	5.21	35.52	44.21	40.92	54	4.00	-13.08	AV	Horizontal
7440.68	67.81	7.10	36.53	44.60	66.84	74	4.00	-7.16	Pk	Horizontal
7440.68	44.51	7.10	36.53	44.60	43.54	54	4.00	-10.46	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



- Opunous i	Spurious Emission in Restricted Band 2310-2390MHz and 2483.5									
EUT:	GMMK 3 Model No.:					GMMK 3 PRO HE 100% WIRELESS				
Temperature:	<b>20</b> ℃			Re	lative Humidi	ty:	48%			
Test Mode:	Mode2/	Mode4		Te	st By:		Mary	/ Hu		
			-		-					
Frequency	Meter Reading	Cable Loss	Antenna Factor	Pream Factor		Lim	its	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ∖	//m)	(dB)	Туре	
2Mbps(GFSK)										
2310.00	68.15	2.97	27.80	43.80	55.12	74	1	-18.88	Pk	Horizontal
2310.00	46.81	2.97	27.80	43.80	33.78	54	ł	-20.22	AV	Horizontal
2310.00	64.71	2.97	27.80	43.80	51.68	74	1	-22.32	Pk	Vertical
2310.00	44.16	2.97	27.80	43.80	31.13	54	1	-22.87	AV	Vertical
2390.00	64.86	3.14	27.21	43.80	51.41	74	ł	-22.59	Pk	Vertical
2390.00	45.30	3.14	27.21	43.80	31.85	54	1	-22.15	AV	Vertical
2390.00	68.80	3.14	27.21	43.80	55.35	74	1	-18.65	Pk	Horizontal
2390.00	45.75	3.14	27.21	43.80	32.30	54	1	-21.70	AV	Horizontal
2483.50	66.17	3.58	27.70	44.00	53.45	74	1	-20.55	Pk	Vertical
2483.50	46.02	3.58	27.70	44.00	33.30	54	1	-20.70	AV	Vertical
2483.50	64.17	3.58	27.70	44.00	51.45	74	1	-22.55	Pk	Horizontal
2483.50	46.24	3.58	27.70	44.00	33.52	54	1	-20.48	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



Spurious Emission in Restricted Band 3260MHz-18000MHz												
EUT:		GMMK 3 Model No.: GMMK 3 PRO HE 100% WIRELESS										
Temperature	e:	<b>20</b> °C			1	Relati	ve Humidity		48%			
Test Mode:		Mode	e2/ Mode	:4	-	Test E	Ву:		Mary H	u		
	1											
Frequency		ading evel	Cable Loss	Antenna Factor		amp ctor	Emission Level	L	imits	Margin	Detector	Comment
(MHz)	(dE	βμV)	(dB)	dB/m	(d	IB)	(dBµV/m)	(dE	3μV/m)	(dB)	Туре	
3260	67	.42	4.04	29.57	44	.70	56.33		74	-17.67	Pk	Vertical
3260	44	.59	4.04	29.57	44	.70	33.50		54	-20.50	AV	Vertical
3260	68	.08	4.04	29.57	44	.70	56.99		74	-17.01	Pk	Horizontal
3260	44	.70	4.04	29.57	44	.70	33.61		54	-20.39	AV	Horizontal
3332	65	.66	4.26	29.87	44	.40	55.39		74	-18.61	Pk	Vertical
3332	46	.46	4.26	29.87	44	.40	36.19		54	-17.81	AV	Vertical
3332	67	.18	4.26	29.87	44	.40	56.91		74	-17.09	Pk	Horizontal
3332	45	.93	4.26	29.87	44	.40	35.66		54	-18.34	AV	Horizontal
17797	52	.23	10.99	43.95	43	.50	63.67		74	-10.33	Pk	Vertical
17797	32	.30	10.99	43.95	43	.50	43.74		54	-10.26	AV	Vertical
17788	52	.86	11.81	43.69	44	.60	63.76		74	-10.24	Pk	Horizontal
17788	32	.91	11.81	43.69	44	.60	43.81		54	-10.19	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.

#### 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:	GMMK 3		GMMK 3 PRO HE 100% WIRELESS
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 7.4 DUTY CYCLE

#### 7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

#### 7.4.2 Conformance Limit

No limit requirement.

#### 7.4.3 Measuring Instruments

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

#### 7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.4.5 **Test Procedure**

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

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

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if  $T \le 6.25$  microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz ( $\geq$  RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T<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:	GMMK 3	INIODELNIO .	GMMK 3 PRO HE 100% WIRELESS
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.

#### 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:	GMMK 3	INIOGELINO .	GMMK 3 PRO HE 100% WIRELESS
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 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:	GMMK 3	Model No .	GMMK 3 PRO HE 100% WIRELESS
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 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:	GMMK 3	INIOGELINO .	GMMK 3 PRO HE 100% WIRELESS
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu



#### 7.8 SPURIOUS RF CONDUCTED EMISSIONS

#### 7.8.1 Conformance Limit

Below -20dB of the highest emission level in operating band.
 Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### 7.8.2 Measuring Instruments

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

#### 7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

#### 7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



#### 7.9 ANTENNA APPLICATION

#### 7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 7.9.2 Result

The EUT antenna is permanent attached PCB Antenna (Gain:1.16 dBi). It comply with the standard requirement.

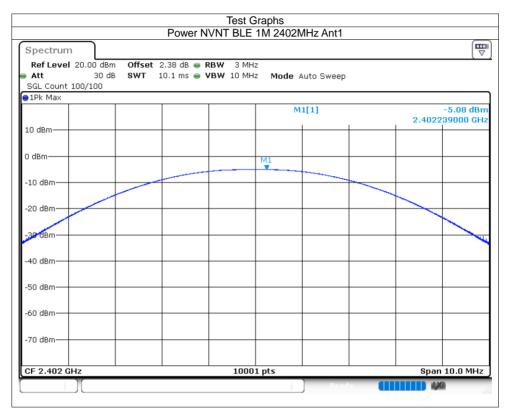


# 8 TEST RESULTS

#### 8.1 **1M:**

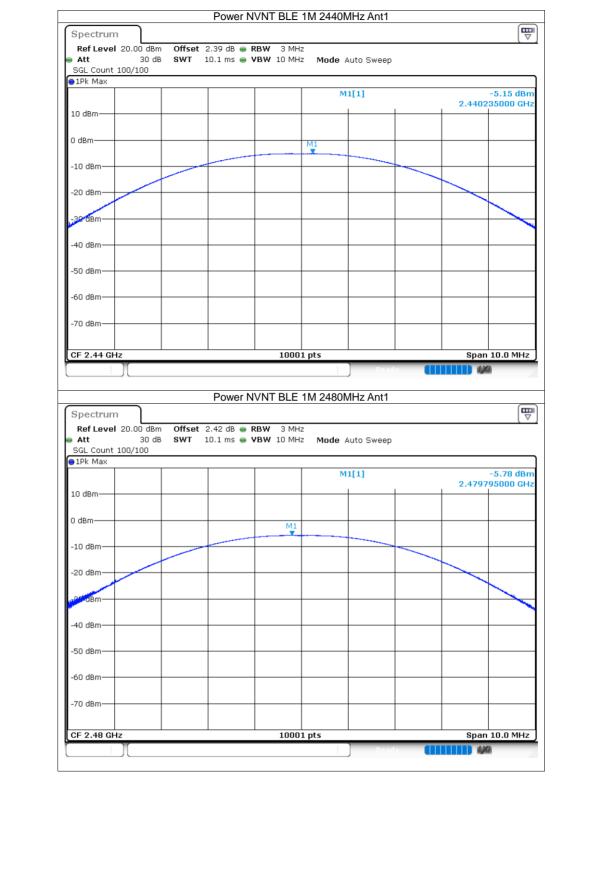
# 8.1.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-5.08	30	Pass
NVNT	BLE 1M	2440	Ant1	-5.15	30	Pass
NVNT	BLE 1M	2480	Ant1	-5.78	30	Pass



#### Report No.: S24041703572001







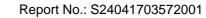
# NTEK 北测<sup>®</sup>

# 8.1.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.678	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.743	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.671	0.5	Pass







			-6dB	Bandw	vidth NVNT BI	E 1M 2480MH	z Ant1		
Spect	rum								
Ref Le	evel	20.00 dBm	n Offset 2.4	42 dB 😑	RBW 100 kHz				
Att		30 dE	3 SWT 18	.9 µs 👄	<b>VBW</b> 300 kHz	Mode Auto FFT			
SGL Co	unt 1	00/100							
⊖1Pk Ma	ах								
						M1[1]			-6.01 dBm
10 40								2.4799	84200 GHz
10 dBm-						M2[1]		-	12.02 dBm
0 dBm—								2.4796	52000 GHz
о ивпі—					M1				
-10 dBm				M2		МЗ			
-10 ubii				<b>y</b>		× ×	-		
-20 dBm									
-20 ubii	·								
-30 dBm									
-30 ubii	'								
-40 dBm									$\sim$
io abii	·								
-50 dBm									
00 40	·								
-60 dBm									
00 000									
-70 dBm	<u> </u>								
CF 2.48	B GHZ	<u> </u>			10001 p	ots		Spa	n 2.0 MHz
Marker									
Туре	Ref		X-value		Y-value	Function	Fun	ction Result	
M1		1	2.4799842		-6.01 dBm				
M2		1	2.479652		-12.02 dBm				
MЗ		1	2.480323	3 GHz	-12.00 dBm				
						R	eady		1
									- ////

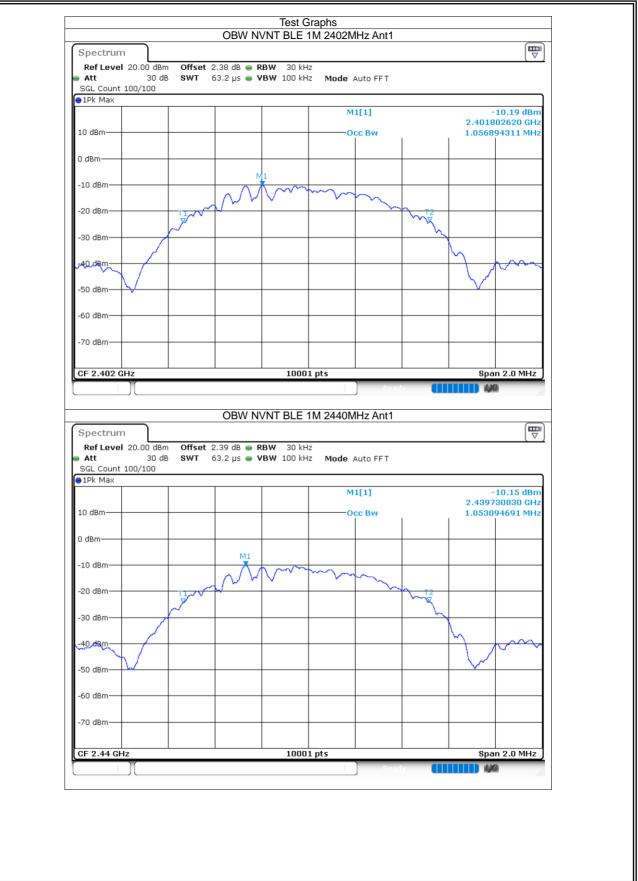


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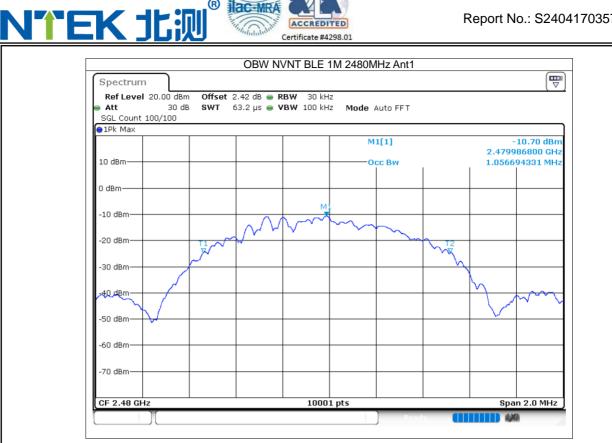
# 8.1.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.057
NVNT	BLE 1M	2440	Ant1	1.053
NVNT	BLE 1M	2480	Ant1	1.057







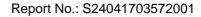




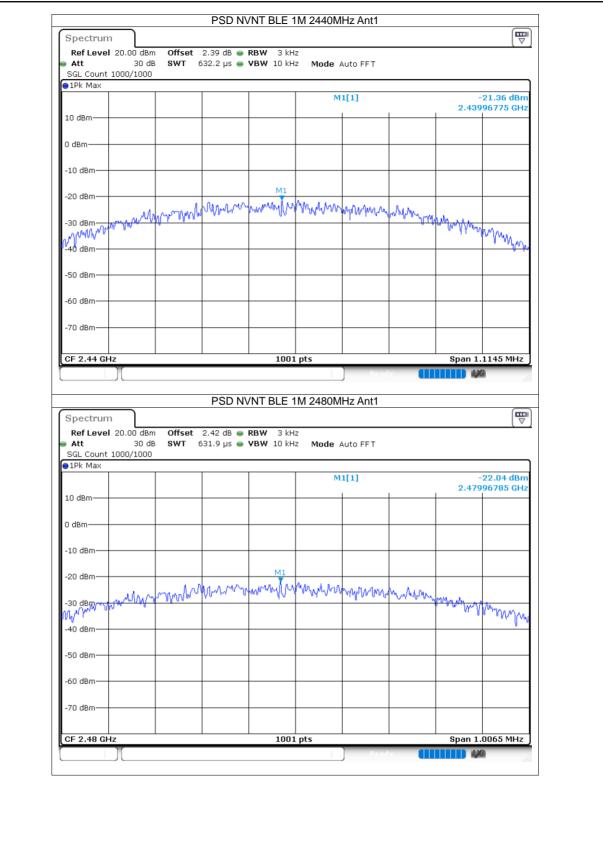
# 8.1.4 Maximum Power Spectral Density Level

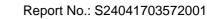
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-21.34	8	Pass
NVNT	BLE 1M	2440	Ant1	-21.36	8	Pass
NVNT	BLE 1M	2480	Ant1	-22.04	8	Pass

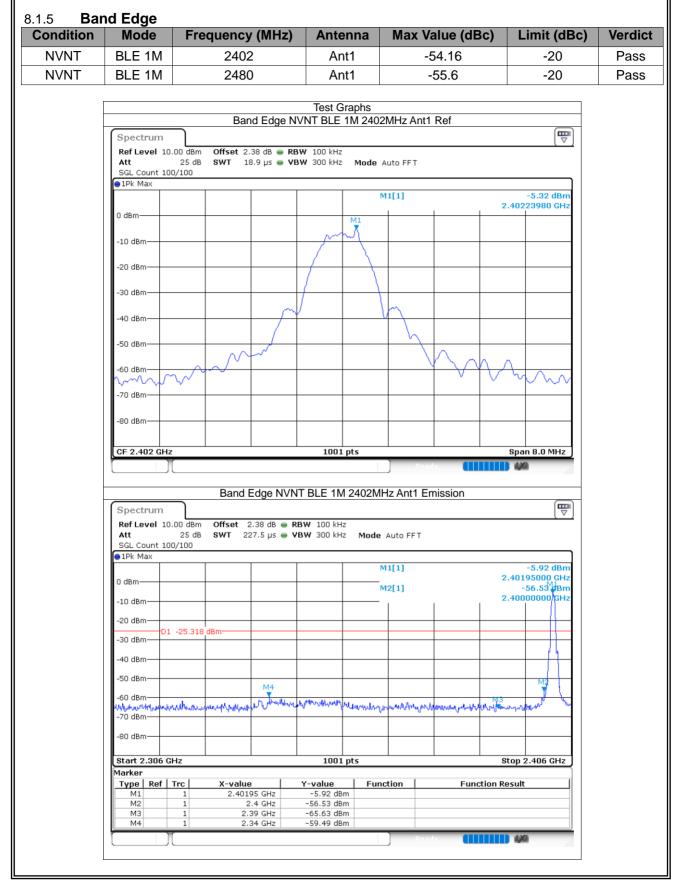
	PSD NVNT	Test Graphs BLE 1M 2402MHz	Ant1	
Spectrum				
	Offset 2.38 dB 🖷 RBV			
Att 30 dB 5 SGL Count 1000/1000	WT 632.2 µs 🖷 VBV	V 10 kHz Mode Auto	FFT	
∋1Pk Max				
		M1[1]	I	-21.34 dBi
10 dBm				2.40196850 GH
0 dBm				
-10 dBm				
		М1		
-20 dBm -30 dBm	montherman	munnunn	mounder	1.0 A.
-30 dBm - W				and the work of the second sec
-40 dBm				
-50 dBm				
-60 dBm				
-70 dBm				
CF 2.402 GHz		1001 pts		Span 1.017 MHz











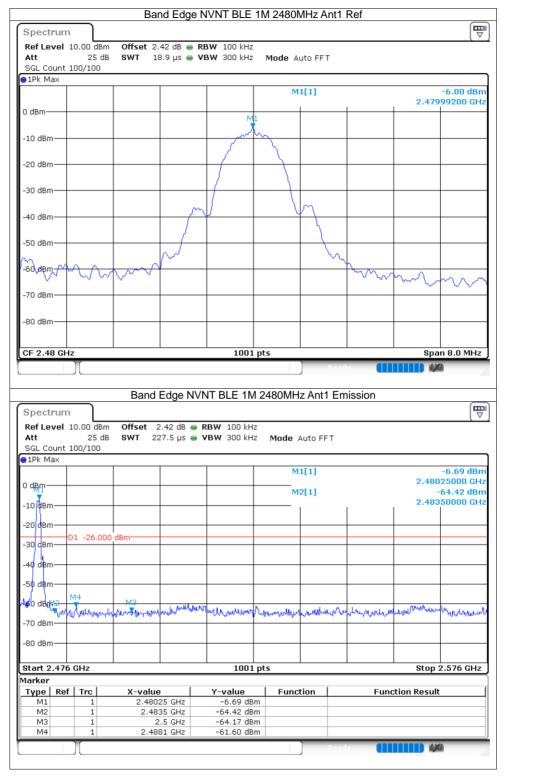
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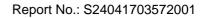




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# 8.1.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-42	-20	Pass
NVNT	BLE 1M	2440	Ant1	-43.65	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.78	-20	Pass

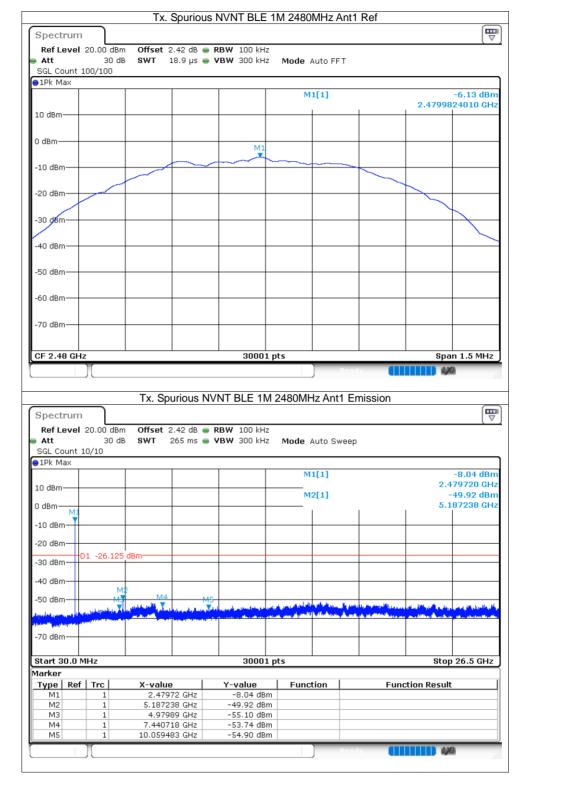


Spectrun		0# -							
Att	l 20.00 dBm 30 dB			RBW 100 kHz /BW 300 kHz	Mode A	to FFT			
SGL Count		0 1	- cq 0.0	Dir ooo kiiz	mode Ac				
∋1Pk Max									
					M1	[1]			-6.69 dBm
10 dBm								2.401	.72880 GHz
0 dBm									
			M1						
-10 dBm			$\sim$		$\longrightarrow$	$\sim$			
-20 dBm—								<u> </u>	
	-								
-30 dBm—									$\sim$
-40 dBm—									
-50 dBm									
-60 dBm									
-70 dBm—									
CF 2.402 C	- עי			1001	-			Sna	n 1.5 MHz
	1112			1001 p	ts			opo	1.5 1.112
Spectrun		Tx. Spu	urious NV	NT BLE 1M		Read z Ant1 Er	mission		
Ref Leve	1 20.00 dBm	Offset 2	.38 dB 👄 I	NT BLE 1M	] 2402MHz				
-	n I 20.00 dBm 30 dB	Offset 2	.38 dB 👄 I	NT BLE 1M	] 2402MHz				
Ref Level Att	n I 20.00 dBm 30 dB	Offset 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	ito Sweep			
Ref Level Att SGL Count 1Pk Max	n I 20.00 dBm 30 dB	Offset 2	.38 dB 👄 I	NT BLE 1M	] 2402MHz	ito Sweep			-7.42 dBm
Ref Level Att SGL Count	n I 20.00 dBm 30 dB	Offset 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			
Ref Level Att SGL Count 1Pk Max 10 dBm	n I 20.00 dBm 30 dB	Offset 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			-7.42 dBm 2.3970 GHz
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm M1	n I 20.00 dBm 30 dB	Offset 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			-7.42 dBm 2.3970 GHz 48.70 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	n I 20.00 dBm 30 dB	Offset 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			-7.42 dBm 2.3970 GHz 48.70 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm	n I 20.00 dBm 30 dB 10/10	Offset 2 SWT 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			-7.42 dBm 2.3970 GHz 48.70 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm	n I 20.00 dBm 30 dB	Offset 2 SWT 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			-7.42 dBm 2.3970 GHz 48.70 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	n I 20.00 dBm 30 dB 10/10	Offset 2 SWT 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			-7.42 dBm 2.3970 GHz 48.70 dBm
Mef Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n I 20.00 dBm 30 dB 10/10	Offset 2 SWT 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au	uto Sweep [1]			-7.42 dBm 2.3970 GHz 48.70 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	D1 -26.690	Offset 2 SWT 2	.38 dB ● I 665 ms ● V	NT BLE 1M	2402MHz Mode Au 	uto Sweep [1]			-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n I 20.00 dBm 30 dB 10/10	Offset 2 SWT 2	.38 dB 👄 I	NT BLE 1M	2402MHz Mode Au 	ıto Sweep [1] [1]			-7.42 dBm 2.3970 GHz 48.70 dBm
Mef Level           Att           SGL Count           IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	D1 -26.690	Offset 2 SWT 2	.38 dB ● I 665 ms ● V	NT BLE 1M	2402MHz Mode Au 	ıto Sweep [1] [1]			-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	D1 -26.690	Offset 2 SWT 2	.38 dB ● I 665 ms ● V	NT BLE 1M	2402MHz Mode Au 	ıto Sweep [1] [1]			-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	D1 -26.690	Offset 2 SWT 2	.38 dB  .38 dB  .38 dB  .38 dB  .39 dB		2402MHz Mode Au 	ıto Sweep [1] [1]		menerusti and	-7.42 dBm 2.3970 GHz -48.70 dBm 5.1652 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	D1 -26.690	Offset 2 SWT 2	.38 dB  .38 dB  .38 dB  .38 dB  .39 dB	NT BLE 1M	2402MHz Mode Au 	ıto Sweep [1] [1]		menerusti and	-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           SGL Count           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type	D1 -26.690	Offset 2 SWT 2	.38 dB 265 ms	NT BLE 1M	2402MHz Mode Au 	Ito Sweep [1] [1]	ry-currently-anne	menerusti and	-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           SGL Count           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	D1 -26.690	Offset 2 SWT 2 dBm dBm	.38 dB • 1 65 ms • 1	NT BLE 1M RBW 100 kHz /BW 300 kHz //BW 30	2402MHz Mode Au M1[ 	Ito Sweep [1] [1]	ry-currently-anne	ynterwertung yn stop	-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           SGL Count           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type	D1 -26.690	Offset 2 SWT 2 dBm dBm x-value 2.39 5.165	.38 dB • 1 265 ms • 1	NT BLE 1M RBW 100 kHz /BW 300 kHz //BW 30	2402MHz Mode Au M1[ 	Ito Sweep [1] [1]	ry-currently-anne	ynterwertung yn stop	-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           SGL Count           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2           M3           M4	D1 -26.690	Offset 2 SWT 2 dBm dBm x-value 2.39 5.165 4.979 7.388	.38 dB • 1 265 ms • 1 	NT BLE 1M RBW 100 kHz /BW 300	2402MHz Mode Au M11 	Ito Sweep [1] [1]	ry-currently-anne	ynterwertung yn stop	-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2           M3	D1 -26.690	Offset 2 SWT 2 dBm dBm x-value 2.39 5.165 4.979 7.388	.38 dB 265 ms X65 ms X75 ms	NT BLE 1M	2402MHz Mode Au M11 	Ito Sweep [1] [1]	ry-currently-anne	ynterwertung yn stop	-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz
Mef Level           Att           SGL Count           SGL Count           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2           M3	D1 -26.690	Offset 2 SWT 2 dBm dBm x-value 2.39 5.165 4.979 7.388	.38 dB • 1 265 ms • 1 	NT BLE 1M RBW 100 kHz /BW 300	2402MHz Mode Au M11 	Ito Sweep [1] [1]	ry-corted types the	ynterwertung yn stop	-7.42 dBm 2.3970 GHz 48.70 dBm 5.1652 GHz



Att SGL Count :	10.00 dBm 30 dB 100/100			BW 100 kHz BW 300 kHz	Mode Auto	FFT			
1Pk Max									
					M1[1	1		2 44025	-6.24 dBm 76920 GHz
0 dBm								2.77020	70920 012
						M1			
-10 dBm									
-20 dBm								_	
-20 UBIII									
-30 d8m									
-40 dBm									
-50 dBm									
CO GDIII	T								
-60 dBm									
-70 dBm									
-80 dBm									
								- Co -	n 1.5 MHz
CF 2.44 GH				30001 NT BLE 1M		Peady Ant1 Emiss	ion		
Spectrum Ref Level Att	10.00 dBm 30 dB	Offset 2.3	9 dB 👄 R		) 2440MHz /		ion		
Spectrum Ref Level	10.00 dBm 30 dB	Offset 2.3	9 dB 👄 R	NT BLE 1M	2440MHz / Mode Auto	) Sweep	ion		
Spectrum Ref Level Att SGL Count : 1Pk Max	10.00 dBm 30 dB	Offset 2.3	9 dB 👄 R	NT BLE 1M	) 2440MHz /	) Sweep	ion		-7.45 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm	10.00 dBm 30 dB	Offset 2.3	9 dB 👄 R	NT BLE 1M	2440MHz / Mode Auto	) Sweep	ion	2.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max	10.00 dBm 30 dB	Offset 2.3	9 dB 👄 R	NT BLE 1M	2440MHz / Mode Auto 	) Sweep	ion	2.4	-7.45 dBm (₩)
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 263	9 dB 👄 R	NT BLE 1M	2440MHz / Mode Auto 	) Sweep	ion	2.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm	10.00 dBm 30 dB	Offset 2.3 SWT 263	9 dB 👄 R	NT BLE 1M	2440MHz / Mode Auto 	) Sweep	ion	2.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 263	9 dB 👄 R	NT BLE 1M	2440MHz / Mode Auto 	) Sweep		2.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 263	9 dB ● <b>R</b> 5 ms ● <b>V</b>	NT BLE 1M BW 100 kHz BW 300 kHz	2440MHz / Mode Auto M1[1 	) Sweep		2.4 - 3.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : SGL Count : IPk Max 0 dBm -10 dBm -20 dBm -30 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 263	9 dB 🖷 R 5 ms 🖶 V	NT BLE 1M BW 100 kHz BW 300 kHz	2440MHz / Mode Auto 	) Sweep		2.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : IPk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 261	9 dB ● <b>R</b> 5 ms ● <b>V</b>	NT BLE 1M BW 100 kHz BW 300 kHz	2440MHz / Mode Auto M1[1 	) Sweep		2.4 - 3.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 261	9 dB ● <b>R</b> 5 ms ● <b>V</b>	NT BLE 1M BW 100 kHz BW 300 kHz	2440MHz / Mode Auto M1[1 	) Sweep		2.4 - 3.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 261	9 dB ● <b>R</b> 5 ms ● <b>V</b>	NT BLE 1M BW 100 kHz BW 300 kHz	2440MHz / Mode Auto M1[1 	) Sweep		2.4 - 3.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -80 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 261	9 dB ● <b>R</b> 5 ms ● <b>V</b>	NT BLE 1M	2440MHz / Mode Auto M1[1 	) Sweep		2.4 2.4 3.4	-7.45 dBm 40010 GHz 49.90 dBm 01396 GHz
Spectrum Ref Level Att SGL Count : 1Pk Max 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 261	9 dB ● <b>R</b> 5 ms ● <b>V</b>	NT BLE 1M BW 100 kHz BW 300 kHz	2440MHz / Mode Auto M1[1 	) Sweep		2.4 2.4 3.4	-7.45 dBm 40010 GHz 49.90 dBm
Spectrum           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           -80 dBm           Start 30.0 M           Marker           Type	10.00 dBm 30 dB 10/10 01 -26.236 M2 M2 M3 M4 M4 MHz	Offset 2.3 SWT 263	9 dB	NT BLE 1M BW 100 kHz BW 300 kHz	2440MHz / Mode Auto M1[1 	Sweep		2.4 3.4	-7.45 dBm 440010 GHz 49.90 dBm 01396 GHz
Spectrum           Ref Level           Att           SGL Count :           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -80 dBm           -80 dBm           -80 dBm	10.00 dBm 30 dB 10/10	Offset 2.3 SWT 261	9 dB   7 ms   7 ms   7 ms	NT BLE 1M	2440MHz / Mode Auto M1[1 M2[1 M2[1	Sweep		2.4 3.4	-7.45 dBm 440010 GHz 49.90 dBm 01396 GHz
Spectrum           Ref Level           Att           SGL Count :           IPk Max           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -80 dBm           -70 dBm           -80 dBm           -80 dBm           -70 dBm           -80 dBm           -70 dBm           -80 dBm           -70 dBm <t< td=""><td>10.00 dBm 30 dB 10/10 01 -26.236 0 M2 M3 M4Hz MHz Trc 1 1 1</td><td>Offset 2.3 SWT 261</td><td>9 dB  R S ms V</td><td>NT BLE 1M BW 100 kHz BW 300 kHz </td><td>2440MHz / Mode Auto M1[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2] M2[1 M2]</td><td>Sweep</td><td></td><td>2.4 3.4</td><td>-7.45 dBm 440010 GHz 49.90 dBm 01396 GHz</td></t<>	10.00 dBm 30 dB 10/10 01 -26.236 0 M2 M3 M4Hz MHz Trc 1 1 1	Offset 2.3 SWT 261	9 dB  R S ms V	NT BLE 1M BW 100 kHz BW 300 kHz 	2440MHz / Mode Auto M1[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2[1 M2] M2[1 M2]	Sweep		2.4 3.4	-7.45 dBm 440010 GHz 49.90 dBm 01396 GHz
Spectrum Ref Level Att SGL Count : IPk Max 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -80 dBm -70 dBm -70 dBm -80 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -70 dBm -80 dBm -80 dBm -70 dBm -70 dBm -80 dBm -8	10.00 dBm 30 dB 10/10 01 -26.236 ( M2 M3 01 -26.236 ( M2 M3 01 -26.236 ( M2 M3 01 -26.236 ( M2 M3 0 M3 0 M3 0 M3 0 M3 0 M3 0 M3 0 M3 0	Offset 2.3 SWT 261	9 dB P R	NT BLE 1M BW 100 kHz BW 300 kHz Comparison of the second	2440MHz / Mode Auto M1[1 M2[1 M2[1	Sweep		2.4 3.4	-7.45 dBm 440010 GHz 49.90 dBm 01396 GHz





#### 8.2 2M:

#### Maximum Conducted Output Power 8.2.1

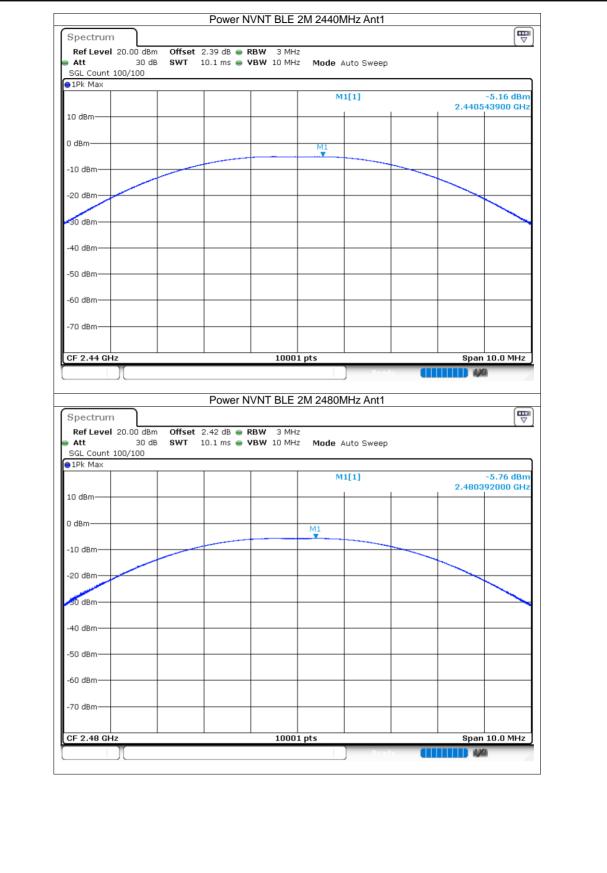
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Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-5.07	30	Pass
NVNT	BLE 2M	2440	Ant1	-5.16	30	Pass
NVNT	BLE 2M	2480	Ant1	-5.76	30	Pass

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		Power N	Test Gr VNT BLE 2	M 2402MHz Ai	nt1		
Spectrum	)						
Ref Level 20.0	L ID dBm Offset	t 2.38 dB 🔵 F	RW 3 MHz				( v
Att	30 dB SWT		BW 10 MHz	Mode Auto Sw	/eep		
SGL Count 100/	100						
●1Pk Max							
				M1[1]			-5.07 dBr 51000 GH
10 dBm						2.10200	1000 011
0 dBm				M1			
				*			
-10 dBm		-					
-20 dBm							
<30 dBm							
-40 dBm							
-50 dBm							
-30 ubiii							
-60 dBm							
-70 dBm							
CF 2.402 GHz			10001	pts		Span	10.0 MHz
			10001			opan	



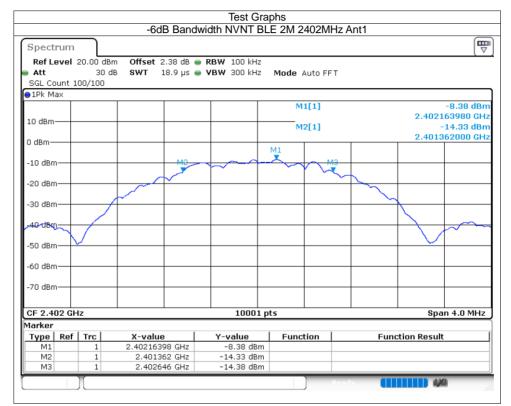


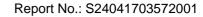


## 8.2.2 -6dB Bandwidth

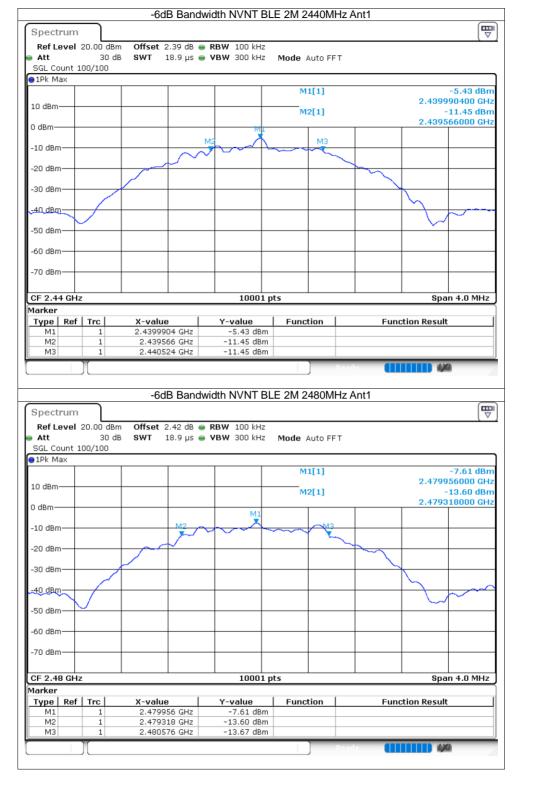
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.284	0.5	Pass
NVNT	BLE 2M	2440	Ant1	0.957	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.258	0.5	Pass

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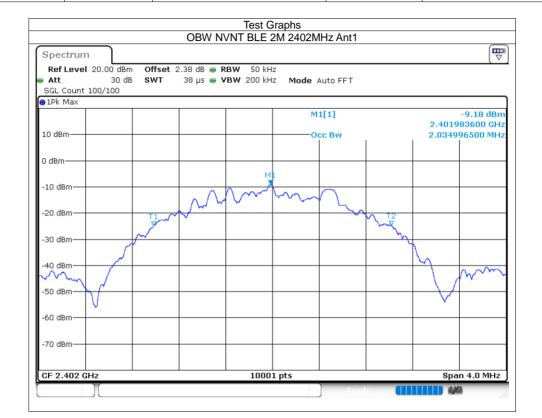
# 8.2.3 Occupied Channel Bandwidth

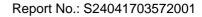
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Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.035
NVNT	BLE 2M	2440	Ant1	2.045
NVNT	BLE 2M	2480	Ant1	2.038

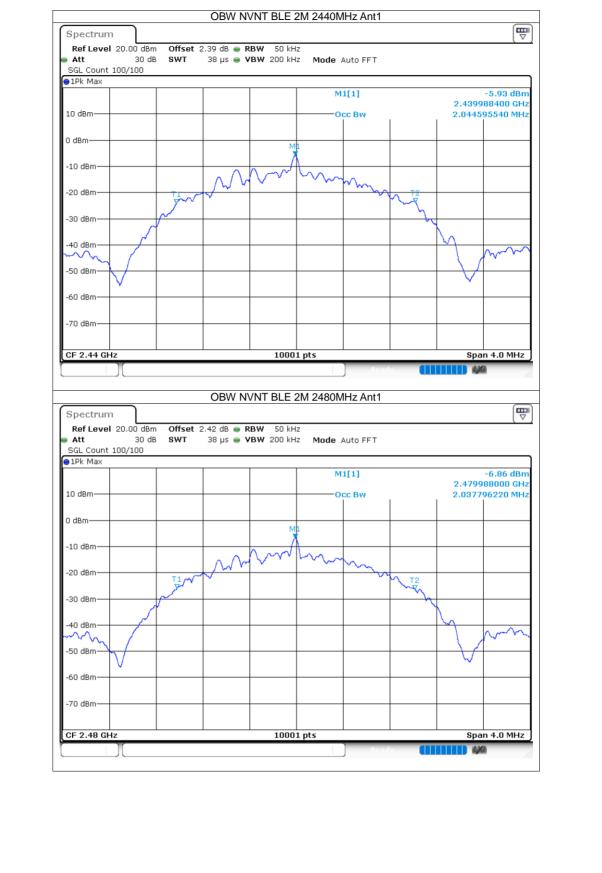
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# 8.2.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-23.15	8	Pass
NVNT	BLE 2M	2440	Ant1	-23.42	8	Pass
NVNT	BLE 2M	2480	Ant1	-24.07	8	Pass

Spectrum				1 2402MHz			
Ref Level 20.00	30 dB <b>SWT</b>	.38 dB 👄 RB 632 µs 👄 VB		Mode Auto	FFT		
∋1Pk Max	-						
				M1[1	1		23.15 dBr 79590 GH
10 dBm						2.4019	79390 GH
0 dBm							
-10 dBm							
-20 dBm			M1				
20 dbm	الد ال	Wernwould	y www.WWW	un my Muenyou	marthanel 1		
-30 dBm 440 dBm	Willing Children - Children				and and an analytic	and and the second and the second	malan
-to ubili							
-50 dBm							
-60 dBm							
-70 dBm							
CF 2.402 GHz			10001	ots		Span 1	1.926 MHz



		7	
	set 2.39 dB 👄 RBW 3 kH: Γ 631.9 μs 👄 VBW 10 kH:		
		M1[1]	-23.42 dB 2.439979330 GI
10 dBm			
0 dBm			
-10 dBm			
-20 dBm	M1		
20 dbm	Man mouth more and when	Unin Marganer	about a Barris O
-30 dBm			abard probably that a hard and a service
-40 dBm			
-50 dBm			
-60 dBm			
-70 dBm			
CF 2.44 GHz	1000:	1 pts	Span 1.4355 MH
Spectrum	PSD NVNT BLE 2	M 2480MHz Ant1	
Att 30 dB SW     SGL Count 100/100     IPk Max	Г 632.1 µs ● VBW 10 kH;	M1[1]	-24.07 dB
10 dBm			2.479979060 GI
0 dBm			
10 - 10			
-10 dBm			
	MI Marine	Marahare Ball of growing of the state of the	stast 2 . K
-20 dBm-	1012	Man melline commences of the fille	alperture har marked and have
	tota	Men well the second open second s	while have a server the
-20 dBm-	inter and the property of the	Municolly Common of String String	alipelyterelipetersettere
-20 dBm -30 dBm 	tota	Men hall bet a new approximately after a	ntepolyton franken war and the
-20 dBm -30 dBm 	1012 month of the program and all program and all the	Menned () de La province de La provi	ulphilader and an and a second s
-20 dBm -30 dBm 	inter and the second se	Men wellet en	
-20 dBm -30 dBm 	1000		Span 1.887 MH
-20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm			



ndition	Mode	Frequency (MI	Hz) Antenna			Ver
VNT	BLE 2M	2402	Ant1	-53.63	-20	Pa
VNT	BLE 2M	2480	Ant1	-51.74	-20	Pa
		Band Edg	Test Graphs ge NVNT BLE 2M 2	s 402MHz Ant1 Ref		
	Spectrum Ref Level 10. Att SGL Count 200	25 dB <b>SWT</b> 18.9 μs	● RBW 100 kHz ● VBW 300 kHz Mo	de Auto FFT		
	●1Pk Max			M1[1]	-6.91 dBm	
	0 dBm		MI		2.40197600 GHz	
	-10 dBm					
	-20 dBm		7			
	-30 dBm					
	-40 dBm			had 1		
	-60 dBm			\		
	-70 dBm				"Yuun	
	-80 dBm					
	CF 2.402 GHz		1001 pts		Span 8.0 MHz	
			1001 pts	Ready		
	Spectrum Ref Level 10. Att	00 dBm <b>Offset</b> 2.38 dB		2MHz Ant1 Emission		
	SGL Count 100 91Pk Max				6.44.40.00	
	0 dBm			M1[1] 	-6.44 dBm 2.40195000 GHz -37.93∯Bm	
	-10 dBm			_	2.40000001GHz	
		-26.905 dBm			M2	
	-40 dBm					
	-60 dBm	warman war and a market and a market and a market	M4	entry there was a second to a second second	M3	
	-70 dBm		a		Lift Detaxin (Assoft), 2	
	-80 dBm Start 2.306 G	Hz	1001 pts		Stop 2.406 GHz	
	Marker					
	Type         Ref         1           M1         M2         M2         M2	1 2.40195 GHz 1 2.4 GHz	-6.44 dBm -37.93 dBm	Function Functio	n Result	
	M3 M4	1 2.39 GHz 1 2.3546 GHz				
				Ready		



Gpectrum Ref Level 1		Offset 2.4	42 dB 👄	RBW 100 kHz					
<b>Att</b> SGL Count 2	25 dB 200/200	<b>SWT</b> 18	3.9 µs 👄	<b>VBW</b> 300 kHz	Mode Au	to FFT			
1Pk Max									
					M1	[1]		2 490	-8.95 dBm )15180 GHz
) dBm								2.400	13100 412
					M1				
10 dBm				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\sim$				
20 dBm				N	<u> </u>	ų			
			5			Z			
30 dBm						$\rightarrow$			
40 dBm			1			5	0.0		
+0 ubiii		M	J				n y		
50 dBm		5	v			v	<u> </u>		
s d	$\sim$	1						$\sum_{n=1}^{\infty}$	
60 dBm									V Ln
70 dBm									
80 dBm									
CF 2.48 GHz	z			1001	pts			Spa	n 8.0 MHz
-				/NT BLE 2M		Read	nission		
Ref Level 1 Att	LO.OO dBm 25 dB	Offset 2	.42 dB 👄	/NT BLE 2M RBW 100 kHz VBW 300 kHz	2		nission		
Ref Level 1 Att SGL Count 1	LO.OO dBm 25 dB	Offset 2	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A	uto FFT	hission		
Spectrum Ref Level 1 Att SGL Count 1 1Pk Max	LO.OO dBm 25 dB	Offset 2	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A		hission	2.479	-6.22 dBm
Ref Level 1 Att SGL Count 1 1Pk Max	LO.OO dBm 25 dB	Offset 2	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A	uto FFT	hission		-6.22 dBm 95000 GHz -60.69 dBm
Ref Level 1 Att SGL Count 1 1Pk Max	LO.OO dBm 25 dB	Offset 2	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A M1	uto FFT	hission		-6.22 dBm 995000 GHz
Ref Level 1 Att SGL Count 1 1Pk Max	LO.OO dBm 25 dB	Offset 2	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A M1	uto FFT	nission		-6.22 dBm 95000 GHz -60.69 dBm
Ref Level 1 Att SGL Count 1 1Pk Max 0 dBm 10 dBm 20 dBm	LO.OO dBm 25 dB	Offset 2 SWT 22	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A M1	uto FFT	nission		-6.22 dBm 95000 GHz -60.69 dBm
Ref Level 1 Att SGL Count 1 1Pk Max dBm 10 dBm 20 dBm 30 dBm	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A M1	uto FFT	nission		-6.22 dBm 95000 GHz -60.69 dBm
Ref Level 1 Att SGL Count 1 IPK Max 0 dBm 10 dBm 20 dBm 20 dBm 40 dBm	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB 👄	<b>RBW</b> 100 kHz	2 2 Mode A M1	uto FFT			-6.22 dBm 95000 GHz -60.69 dBm
Ref Level 1 Att SGL Count 1 1Pk Max dBm 10 dBm 20 dBm 30 dBm 50 dBm	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB .42 dB .4	RBW 100 kHz VBW 300 kHz	2 Mode A M1 M2	uto FFT [1] [1]	nission	2.485	-6.22 dBm 995000 GHz 60.69 dBm 850000 GHz
Ref Level 1           Att           SGL Count 1           SGL Count 1 <td>10.00 dBm 25 dB 100/100</td> <td>Offset 2 SWT 22</td> <td>.42 dB .42 dB .4</td> <td><b>RBW</b> 100 kHz</td> <td>2 Mode A M1 M2</td> <td>uto FFT [1] [1]</td> <td></td> <td>2.48</td> <td>-6.22 dBm 995000 GHz 60.69 dBm 850000 GHz</td>	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB .42 dB .4	<b>RBW</b> 100 kHz	2 Mode A M1 M2	uto FFT [1] [1]		2.48	-6.22 dBm 995000 GHz 60.69 dBm 850000 GHz
Ref Level 1           Att           SGL Count 1           SGL Count 1           SGL Bar           10 dBm           20 dBm           30 dBm           40 dBm           50 dBm	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB .42 dB .4	RBW 100 kHz VBW 300 kHz	2 Mode A M1 M2	uto FFT [1] [1]		2.48	-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz
Ref Level 1           Att           SGL Count 1           SGL Count 1 <td>10.00 dBm 25 dB 100/100</td> <td>Offset 2 SWT 22</td> <td>.42 dB .42 dB .4</td> <td>RBW 100 kHz VBW 300 kHz</td> <td>2 Mode A M1 M2</td> <td>uto FFT [1] [1]</td> <td></td> <td>2.48</td> <td>-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz</td>	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB .42 dB .4	RBW 100 kHz VBW 300 kHz	2 Mode A M1 M2	uto FFT [1] [1]		2.48	-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz
Ref Level 1           Att           SGL Count 1           1Pk Max           IRM           10 dBm           20 dBm           20 dBm           30 dBm           20 dBm           40 dBm           50 dBm           50 dBm           60 dBm           70 dBm           80 dBm	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB .42 dB .4	RBW         100 kHz           VBW         300 kHz	2 Mode A M1 M2	uto FFT [1] [1]		2.48	-6.22 dBm 95000 GHz -60.69 dBm 50000 GHz
Ref Level 1           Att           SGL Count 1           SGL Count 1 <td>10.00 dBm 25 dB 100/100</td> <td>Offset 2 SWT 22</td> <td>.42 dB .42 dB .4</td> <td>RBW 100 kHz VBW 300 kHz</td> <td>2 Mode A M1 M2</td> <td>uto FFT [1] [1]</td> <td></td> <td>2.48</td> <td>-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz</td>	10.00 dBm 25 dB 100/100	Offset 2 SWT 22	.42 dB .42 dB .4	RBW 100 kHz VBW 300 kHz	2 Mode A M1 M2	uto FFT [1] [1]		2.48	-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz
Ref Level 1 Att SGL Count 1 IPk Max ILPk Max IDdBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 70 dBm 80 dBm 70 dBm 70 dBm 51 dBm 71 dBm 72 dBm 70 dBm 70 dBm 70 dBm 70 dBm	0.00 dBm 25 dB 000/100 01 -28.953 01 -28.953 01 -28.953 01 -28.953	Offset 2 SWT 22	.42 dB • 7.5 μs •	RBW         100 kHz           VBW         300 kHz	2 Mode A M1 M2	uto FFT [1] [1] [1]	www.wheel	2.48	-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz
Ref Level 1           Att           SGL Count 1           SG dBm           SG dBm           SG dBm           SG dBm           SGL dBm	0.0.0 dBm 25 dB 0.00/100 01 -28.953 01 -28.953 01 -28.953 01 -28.953 01 -28.953 01 -28.953 01 -28.953	Offset 2 SWT 22 dBm dBm Mg-10/MJ/J/M Mg-10/MJ/J/M Mg-10/MJ/J/M Mg-10/MJ/J/M Mg-10/MJ/J/M Mg-10/MJ/J/M Mg-10/MJ/J/M Mg-10/MJ/J/M 2.4795		RBW         100 kHz           VBW         300 kHz	2 Mode A M1 M2 M2 pts Function	uto FFT [1] [1] [1]	www.wheel	2.48:	-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz
Ref Level 1           Att           SGL Count 1           SGL Count 1 <td>0.00 dBm 25 dB 000/100 01 -28.953 01 -28.953 01 -28.953 01 -28.953</td> <td>Offset 2 SWT 22 dBm dBm M3 Myrr/My/U/M 2.4799 2.4433 2.4433 2</td> <td>.42 dB • 7.5 μs •</td> <td>RBW         100 kHz           VBW         300 kHz</td> <td>2 Mode A M1 M2 m2 pts Functi m m</td> <td>uto FFT [1] [1] [1]</td> <td>www.wheel</td> <td>2.48:</td> <td>-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz</td>	0.00 dBm 25 dB 000/100 01 -28.953 01 -28.953 01 -28.953 01 -28.953	Offset 2 SWT 22 dBm dBm M3 Myrr/My/U/M 2.4799 2.4433 2.4433 2	.42 dB • 7.5 μs •	RBW         100 kHz           VBW         300 kHz	2 Mode A M1 M2 m2 pts Functi m m	uto FFT [1] [1] [1]	www.wheel	2.48:	-6.22 dBm 95000 GHz -60.69 dBm 550000 GHz



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		•				
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-45.3	-20	Pass
NVNT	BLE 2M	2440	Ant1	-44.33	-20	Pass
NVNT	BLE 2M	2480	Ant1	-43.05	-20	Pass

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		_	TX. S	purious	NVNT BLE	211/1 2402		i ket		
Spect	rum									
Att		10.00 dB 30 d			RBW 100 kHz VBW 300 kHz		Auto FFT			
		800/300								
∎1Pk M	iax T						11[1]			-5.20 dBm
						N.	1[1]		2.40	-5.29 dBm 198800 GHz
0 dBm-					M	1		+		
-10 dBr	n			$\sim \sim$	$\leftarrow$	$\sim$				
								$\sim$		
-20 dBr	n	$- \frown$	+						$\sim$	
	1									
-30 dBr	"/+									
10 10										
-40 dBr										
-50 dBr										$\checkmark$
-JU UBN	"									
-60 dBr	n									
-5 901										
-70 dBr	n									<b></b>
-80 dBr	n									<b>↓↓</b>
05.0.1	00.7	-			1001					an 3.0 MHz
CF 2.4	UZ GI	12			1001					
Spect	trum		Tx. Spu	rious N\	/NT BLE 2N		) Pee Hz Ant1 E	dy <b>()</b>		
Ref L		10.00 dB	m Offset 2.3	38 dB 👄	VNT BLE 2N	И 2402M				
-	evel	10.00 dB 30 d	m Offset 2.3	38 dB 👄	VNT BLE 2N	И 2402M			ара 	
Ref L Att SGL Co	evel	10.00 dB 30 d	m Offset 2.3	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode	Auto Sweej		ор. 	
Ref L Att SGL Co	evel	10.00 dB 30 d	m Offset 2.3	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode				-8.77 dBm
Ref L Att SGL Co 1Pk M	ount 1 lax	10.00 dB 30 d	m Offset 2.3	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode	Auto Swee; 11[1]			-8.77 dBm 2.3970 GHz
Ref L Att SGL CO 1Pk M	ount 1 lax	10.00 dB 30 d	m Offset 2.3	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode	Auto Sweej			-8.77 dBm
Ref L SGL Co 1Pk M 0 dBm-	evel	10.00 dB 30 d	m Offset 2.3	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode	Auto Swee; 11[1]			-8.77 dBm 2.3970 GHz -50.60 dBm
Ref L Att SGL Co 1Pk M 0 dBm- -10 dBr -20 dBr	evel	10.00 dB 30 d	m Offset 2 B SWT 20	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode	Auto Swee; 11[1]			-8.77 dBm 2.3970 GHz -50.60 dBm
Ref L Att SGL Co 1Pk M 0 dBm- -10 dBr -20 dBr	evel	10.00 dB 30 c	m Offset 2 B SWT 20	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode	Auto Swee; 11[1]			-8.77 dBm 2.3970 GHz -50.60 dBm
Ref L Att SGL Co 1Pk M 0 dBm- -10 dBm- -20 dBm -30 dBm	n n	10.00 dB 30 c	m Offset 2 B SWT 20	38 dB 👄	VNT BLE 2N	// 2402M 2 2 Mode	Auto Swee; 11[1]			-8.77 dBm 2.3970 GHz -50.60 dBm
Ref L SGL C( 1Pk M 1Pk M 0 dBm- -10 dBm- -20 dBm -30 dBr -30 dBr	n n n	10.00 dB 30 c .0/10	m Offset 2. B SWT 20	38 dB 🖷		// 2402M	Auto Swee;			-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L SGL Cd 1Pk M 0 dBm- -10 dBr -20 dBr -30 dBr -40 dBr	n n n n n	10.00 dB 30 c .0/10	m Offset 2. B SWT 20	38 dB 🖷		// 2402M	Auto Swee;			-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L SGL Cd 1Pk M 0 dBm- -10 dBr -20 dBr -30 dBr -40 dBr	n n n n n	10.00 dB 30 c .0/10	m Offset 2. B SWT 26	38 dB 🖷		// 2402M	Auto Swee;			-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L Att SGL Cr SGL Cr 1Pk M 0 dBm- -10 dBm- -20 dBm- -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm	n n n	10.00 dB 30 c .0/10	m Offset 2. B SWT 20	38 dB 🖷		// 2402M	Auto Swee;			-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L Att SGL Co IPk M O dBm- -10 dBm- -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm	Building         Big           M1         M1           N         M1	10.00 dB 30 c .0/10	m Offset 2. B SWT 20	38 dB 🖷		// 2402M	Auto Swee;			-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L Att SGL Co IPk M O dBm- -10 dBm- -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm	Building         Big           M1         M1           N         M1	10.00 dB 30 c .0/10	m Offset 2. B SWT 20	38 dB 🖷		// 2402M	Auto Swee;			-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L           Att           SGL Cc           SGL Dr           IPk M           O dBm           -10 dBr           -20 dBr           -30 dBr           -30 dBr           -50 dBr           -50 dBr           -70 dBr           -70 dBr           -80 dBr	M1 n n n n n n n n n n n n n n n n n n n	10.00 dB 30 c 0/10 01 -25.29	m Offset 2. B SWT 20	38 dB 🖷		1 2402M	Auto Swee;		1 	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L Att SGL C( ) 1Pk M 0 dBm- -10 dBr -20 dBr -20 dBr -30 dBr -40 dBr -50 dBr -50 dBr -70 dBr -70 dBr -80 dBr	M1 n n n n n n n m n m n m n m n m n m n	10.00 dB 30 c 0/10 01 -25.29	m Offset 2. B SWT 20	38 dB 🖷		1 2402M	Auto Swee;		1 	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L           Att           SGL C(           SGL C(           1Pk M           0 dBm           -10 dBr           -20 dBr           -30 dBr           -30 dBr           -40 dBr           -50 dBr           -50 dBr           -60 dBr           -70 dBr           -80 dBr           -80 dBr           -30 dBr           -70 dBr           -70 dBr           -80 dBr           -70 dBr	M1 ax m n m n m m m m m m m m m m m m m m m	10.00 dB 30 c 0/10 01 -25.29 11 -25.29	m Offset 2. B SWT 26 2 dBm 3 Mi 4 Mi 4 Mi 4 Mi 5 Mi 4 Mi 5 Mi 6 Mi 6 Mi 6 Mi 7 Mi 7 Mi 8 Mi 8 Mi 8 Mi 9 Mi 8 Mi 9 Mi 8 Mi 9 Mi 9 Mi 8 Mi 9 Mi	38 dB ● 55 ms ●	VNT BLE 2N RBW 100 kHa VBW 300 kHa VBW 300 kHa	۸ 2402M ۲ Mode ۲ Μode ۲ Μοde	Auto Sweey		1 	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L           Att           SGL Cd           SGL PK           D dBm           O dBm           -10 dBr           -20 dBr           -30 dBr           -40 dBr           -50 dBr           -60 dBr           -70 dBr           -80 dBr           Start 2           Marker           Type	Bunt 1           Bax           M1           n	10.00 dB 30 c .0/10 01 -25.29 	m Offset 2. B SWT 26 2 dBm 2 dBm 3 M1 4 M1	38 dB ● 55 ms ● ///5 ////////////////////////////////	VNT BLE 2N RBW 100 kH yBW 300 kH 300	۸ 2402M	Auto Sweey		ru/mu/lu.A Sto	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L         Att           SGL C(         SGL C(           1Pk M         D           0 dBm         D           -10 dBr         -           -20 dBr         -           -30 dBr         -           -40 dBr         -           -50 dBr         -           -60 dBr         -           -70 dBr         -           -70 dBr         -           -80 dBr         -           -70 dBr         -	M1 n n n n n n n n n n n n n n n n n n n	10.00 dB 30 c 0/10 01 -25.29 11 -25.29	m Offset 2. B SWT 26 2 dBm 3 Mi 4 Mi 4 Mi 4 Mi 5 Mi 4 Mi 5 Mi 6 Mi 6 Mi 6 Mi 7 Mi 7 Mi 8 Mi 8 Mi 8 Mi 9 Mi 8 Mi 9 Mi 8 Mi 9 Mi 9 Mi 8 Mi 9 Mi	38 dB  55 ms	VNT BLE 2N RBW 100 kHa VBW 300 kHa VBW 300 kHa	۸ 2402M ۲ Mode ۲ Mode ۱۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰	Auto Sweey		ru/mu/lu.A Sto	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L           Att           SGL C(           SGL C(           1Pk M           0 dBm           0 dBm           -10 dBr           -20 dBr           -30 dBr           -30 dBr           -50 dBr           -60 dBr           -70 dBr           -80 dBr           -70 dBr </td <td>ount 1           Jax           M1           n</td> <td>10.00 dB 30 c 0/10 01 -25.29 11 -25.29 11 -25.29 11 -25.29</td> <td>m Offset 2. B SWT 26 2 dBm 2 dBm 3 M1 4 M 4 M 2 .397 16.7326 4.953 7.018</td> <td>38 dB ● 55 ms ● 55 ms ● 105 105 105 105 105 105 105 105 105 105</td> <td>VNT BLE 2N RBW 100 kHa VBW 300 kHa VBW 300</td> <td>۸ 2402M 2 Mode س ۲ ۲ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳</td> <td>Auto Sweey</td> <td></td> <td>ru/mu/lu.A Sto</td> <td>-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz</td>	ount 1           Jax           M1           n	10.00 dB 30 c 0/10 01 -25.29 11 -25.29 11 -25.29 11 -25.29	m Offset 2. B SWT 26 2 dBm 2 dBm 3 M1 4 M 4 M 2 .397 16.7326 4.953 7.018	38 dB ● 55 ms ● 55 ms ● 105 105 105 105 105 105 105 105 105 105	VNT BLE 2N RBW 100 kHa VBW 300	۸ 2402M 2 Mode س ۲ ۲ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳	Auto Sweey		ru/mu/lu.A Sto	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L           Att           SGL C:           SGL D:           IPk M           0 dBm           -10 dBr           -20 dBr           -30 dBr           -30 dBr           -30 dBr           -30 dBr           -30 dBr           -50 dBr           -60 dBr           -70 dBr           -80 dBr           -80 dBr           -70 dBr           -70 dBr           -70 dBr           -70 dBr           -80 dBr           -70 dBr           -80 dBr           -80 dBr           -90 dBr      -90 dBr           -90 dBr	ount 1           Jax           M1           n	10.00 dB 30 c 0/10 01 -25.29 11 -25.29 11 -25.29	m Offset 2. B SWT 26 2 dBm 2 dBm 2 dBm 2 dBm 2 dBm 2 dBm 2 dBm 2 dBm 4 dBm 2 dBm 4 dBm 4 dBm 2 dBm 4 dBm	38 dB ● 55 ms ● 55 ms ● 105 105 105 105 105 105 105 105 105 105	VNT BLE 2N RBW 100 kHz VBW 300 kHz VBW 300 kHz	۸ 2402M 2 Mode س ۲ ۲ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳	Auto Sweey		ru/mu/lu.A Sto	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz
Ref L           Att           SGL Cd           SGL Cd           1PK M           0 dBm           0 dBm           -10 dBr           -20 dBr           -30 dBr           -30 dBr           -40 dBr           -50 dBr           -60 dBr           -70 dBr </td <td>ount 1           Jax           M1           n</td> <td>10.00 dB 30 c 0/10 01 -25.29 11 -25.29 11 -25.29 11 -25.29</td> <td>m Offset 2. B SWT 26 2 dBm 2 dBm 3 M1 4 M 4 M 2 .397 16.7326 4.953 7.018</td> <td>38 dB ● 55 ms ● 55 ms ● 105 105 105 105 105 105 105 105 105 105</td> <td>VNT BLE 2N RBW 100 kHa VBW 300 kHa VBW 300</td> <td>۸ 2402M 2 Mode س ۲ ۲ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳</td> <td>Auto Sweey</td> <td></td> <td>ru/mu/lu.A Sto</td> <td>-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz </td>	ount 1           Jax           M1           n	10.00 dB 30 c 0/10 01 -25.29 11 -25.29 11 -25.29 11 -25.29	m Offset 2. B SWT 26 2 dBm 2 dBm 3 M1 4 M 4 M 2 .397 16.7326 4.953 7.018	38 dB ● 55 ms ● 55 ms ● 105 105 105 105 105 105 105 105 105 105	VNT BLE 2N RBW 100 kHa VBW 300	۸ 2402M 2 Mode س ۲ ۲ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳ ۳	Auto Sweey		ru/mu/lu.A Sto	-8.77 dBm 2.3970 GHz -50.60 dBm 6.7326 GHz 



