



RADIO TEST REPORT FCC ID: 2ABU6-DS026

Product: Electronic Shelf Label

Trade Mark: VMINEW 100 VMINE



Model No.: DS026 Family Model: N/A Report No.: S23042302003001 **Issue Date:** May 08, 2023

Prepared for

Shenzhen Minew Technologies Co., Ltd.

3rd Floor, I Building, Gangzhilong Science Park, Qinglong Road, Longhua District, Shenzhen City, China

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





TABLE OF CONTENTS

1	TEST	RESULT CERTIFICATION	4
2	SUMN	MARY OF TEST RESULTS	5
3	FACI	LITIES AND ACCREDITATIONS	6
4		ACILITIES	
		ABORATORY ACCREDITATIONS AND LISTINGS	
		IEASUREMENT UNCERTAINTY	
4	GENF	CRAL DESCRIPTION OF EUT	7
5		RIPTION OF TEST MODES	
6		P OF EQUIPMENT UNDER TEST	
		BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
	5.2 S 6.3 E	UPPORT EQUIPMENT QUIPMENTS LIST FOR ALL TEST ITEMS	.11
7		REQUIREMENTS	
~	7.1 C	CONDUCTED EMISSIONS TEST	
	7.1.1	Applicable Standard	. 14
	7.1.2	Conformance Limit	
	7.1.3	Measuring Instruments	
	7.1.4	Test Configuration	
	7.1.5 7.1.6	Test Procedure	
		Test Results ADIATED SPURIOUS EMISSION	
	7.2.1	Applicable Standard	
	7.2.2	Conformance Limit	
	7.2.3	Measuring Instruments	
	7.2.4	Test Configuration	
	7.2.5	Test Procedure	.18
	7.2.6	Test Results	. 19
		DB BANDWIDTH	
	7.3.1	Applicable Standard	
	7.3.2	Conformance Limit	
	7.3.3	Measuring Instruments	
	7.3.4 7.3.5	Test Setup	
	7.3.5 7.3.6	Test Procedure Test Results	
,		Pest Results	
	7.4.1	Applicable Standard	
	7.4.2	Conformance Limit	
	7.4.3	Measuring Instruments	
	7.4.4	Test Setup	
	7.4.5	Test Procedure	.26
	7.4.6	Test Results	
		EAK OUTPUT POWER	
	7.5.1	Applicable Standard	
	7.5.2	Conformance Limit	
	7.5.3 7.5.4	Measuring Instruments	
	7.5.4 7.5.5	Test Setup Test Procedure	
	7.5.6	Test Frocedure	
	,		. 20



7.6 P	OWER SPECTRAL DENSITY	29
7.6.1	Applicable Standard	
7.6.2	Conformance Limit	
7.6.3	Measuring Instruments	
7.6.4	Test Setup	29
7.6.5	Test Procedure	
7.6.6	Test Results	
7.7 C	ONDUCTED BAND EDGE MEASUREMENT	31
7.7.1	Applicable Standard	31
7.7.2	Conformance Limit	31
7.7.3	Measuring Instruments	31
7.7.4	Test Setup	31
7.7.5	Test Procedure	
7.7.6	Test Results	
7.8 SI	PURIOUS RF CONDUCTED EMISSIONS	
7.8.1	Conformance Limit	
7.8.2	Measuring Instruments	
7.8.3	Test Setup	32
7.8.4	Test Procedure	
7.8.5	Test Results	32
7.9 A	NTENNA APPLICATION	
7.9.1	Antenna Requirement	
7.9.2	Result	
8 TEST	RESULTS	34
1M·		34
8.1.1	Maximum Conducted Output Power	
8.1.2	-6dB Bandwidth	
8.1.3	Maximum Power Spectral Density Level	
8.1.4	Band Edge	
8.1.5	Conducted RF Spurious Emission	10 43
	Conducted KI Spurious Emission	
8.1.6	Maximum Conducted Output Power	
8.1.7	-6dB Bandwidth	
8.1.8	Maximum Power Spectral Density Level	
8.1.9	Band Edge	
	Conducted RF Spurious Emission	
0.1.10		



1 TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen Minew Technologies Co., Ltd.		
Address:	3rd Floor, I Building, Gangzhilong Science Park, Qinglong Road, Longhua District, Shenzhen City, China		
Manufacturer's Name:	Shenzhen Minew Technologies Co., Ltd.		
Address:	Building 3, Instrument World Industrial Park, No. 306, Guanlan Guiyue Road, Longhua District, Shenzhen		
Product description			
Product name:	Electronic Shelf Label		
Model and/or type reference:	DS026		
Family Model	N/A		
Sample number	S230423020004		

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURETEST RESULTFCC 47 CFR Part 2, Subpart JFCC 47 CFR Part 15, Subpart CANSI C63.10-2013CompliedKDB 558074 D01 15.247 Meas Guidance v05r02Complexed

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.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	Apr 23, 2023 ~ May 08, 2023	
Testing Engineer	:	(Mary Hu)	
Authorized Signatory	:	(Alex Li)	

2 SUMMARY OF TEST RESULTS

R

ilac-M

FCC Part15 (15.247), Subpart C							
Standard Section Test Item Verdict Remark							
15.207	Conducted Emission	N/A					
15.247 (a)(2)	6dB Bandwidth	PASS					
15.247 (b) Peak Output Power PASS							
15.209 (a) 15.205 (a)							
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					

ACCREDITED

Certificate #4298.01

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



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment	Electronic Shelf Label					
Trade Mark						
FCC ID	2ABU6-DS026					
Model No.	DS026					
Family Model	N/A					
Model Difference	N/A					
Operating Frequency 2402MHz~2480MHz						
Modulation	GFSK					
Number of Channels	nnels 40 Channels					
Antenna Type	PCB Antenna					
Antenna Gain	2.21dBi					
Adapter	N/A					
Battery DC 3V						
Power supply DC 3V from battery						
HW Version N/A						
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.

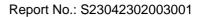




Revision History

	Revision mistory						
Report No.	Version	Description	Issued Date				
S23042302003001	Rev.01	Initial issue of report	May 08, 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.

Certificate #4298.01

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:

Frequency(MHz)
2402
2404
2440
2442
2478
2480

Note: fc=2402MHz+k×2MHz 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
	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
04363	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.



		Certificate #4298.01	Report	No.: S2304230200300
	UIPMENT UND	ER TEST	STEM	
For Radiated Test Cas	es			
	EUT			
For Conducted Test Ca	ases			
Measurement Instrument	EUT			
Note: The temporary tests and this temporary	antenna connecto ary antenna conne	or is soldered on th ctor is listed in the	e PCB board in orde equipment list.	r to perform conducte





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

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	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

_		cot equipment					
	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4440A	MY41000130	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.06.16	2023.06.15	1 year
3	3 Spectrum Analyzer	R&S	FSV40	101417	2022.06.16	2023.06.15	1 year
2	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.04.26	1 year
Ę	5 Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.16	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	7 Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2023.11.06	1 year
ę	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
1	0 Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.04	2023.11.03	1 year
1	1 Power Meter	DARE	RPR3006W	15I00041SN 084	2022.06.160	2023.06.15	1 year
1	2 Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
1	Test Cable 3 (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
1	High Test 4 Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
1	5 Filter	TRILTHIC	2400MHz	29	2023.03.26	2026.03.25	3 year
1	6 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



ACCREDITED Certificate #4298.01

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	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

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





7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 **Conformance Limit**

	Conducted 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

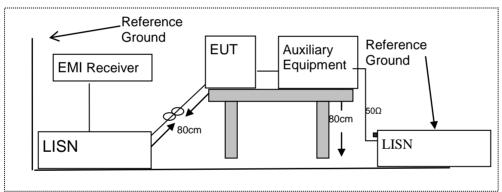
2. The lower limit shall apply at the transition frequencies

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.



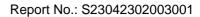


7.1.6 Test Results

EUT:	Electronic Shelf Label	Model Name :	DS026
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A

Note: Not Applicable





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

Certificate #4298.01

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

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

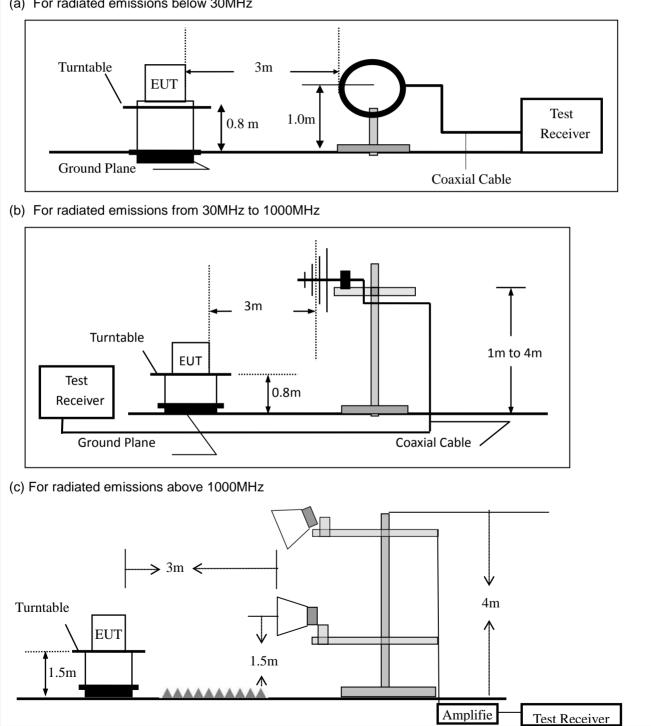
Certificate #4298.01

7.2.3 **Measuring Instruments**

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

Test Configuration 7.2.4

(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	

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

ACCRE

Certificate #4298.01

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 30M
--

EUT:	Electronic Shelf Label	Model No.:	DS026
Temperature:	20 °C	Relative Humidity:	48%
Test 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:	Electronic Shelf Label	Model Name :	DS026
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 4 2Mbps
Test Voltage :	DC 3V		

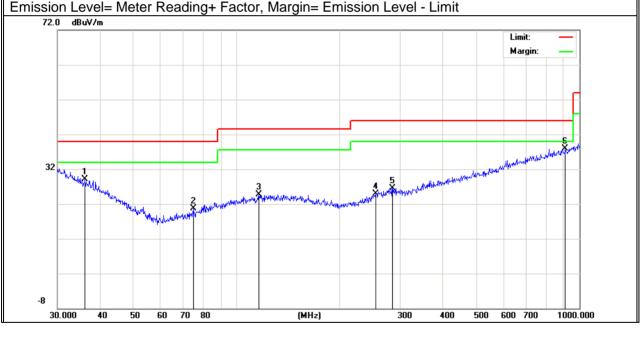
ACCREDITED

Certificate #4298.01

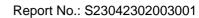
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)) (dBuV/m) (dBu		(dB)	
V	36.1272	5.92	23.09	29.01	40.00	-10.99	QP
V	74.6569	6.35	14.40	20.75	40.00	-19.25	QP
V	116.1321	6.00	18.65	24.65	43.50	-18.85	QP
V	254.7284	5.71	19.19	24.90	46.00	-21.10	QP
V	284.9767	6.47	20.03	26.50	46.00	-19.50	QP
V	909.6667	6.93	30.90	37.83	46.00	-8.17	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtomant	
Н	30.4238	5.47	26.23	31.70	40.00	-8.30	QP	
Н	49.5328	5.80	15.54	21.34	40.00	-18.66	QP	
Н	147.9214	6.62	18.56	25.18	43.50	-18.32	QP	
Н	296.1836	7.04	20.16	27.20	46.00	-18.80	QP	
Н	501.1790	6.03	24.88	30.91	46.00	-15.09	QP	
Н	938.8325	6.89	31.25	38.14	46.00	-7.86	QP	
Emissio 72.0	n Level= Meter dBuV/m	Reading+ Fac	tor, Margin	= Emission Le	vel - Limit			
-						Limit: Margin:		
-								
						In A Parky	n and a start	
32	Report and providence of		3		n umah kananan kan	and the stand and a stand of the stand of th		
-	Ren where have a strate of the	mfor Hedrogen and and an and and	alenne han an a	Mariale deversited and a state				
-								
-8	1 1			Hz)	300 400 500	600 700		

ACCREDITED





	Spurious Er				· ·	z to				r			
EU	T:	E	lect	ronic Sh	nelf Label		Mode	el No.:		DS02	26		
Ter	nperature:	2	0	°C			Relative Humidity:		48%				
Tes	st Mode:	N	/lode	2/Mode	e3/Mode4		Test	By:		Mary	' Hu		
						-							
	Frequency	Rea Lev		Cable loss	Antenna Factor		eamp actor	Emission Level	Lin	nits	Margin	Remark	Comment
	(MHz)	(dBµ	JV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)		
					Low Char	nel	(2402	MHz)(GFSK)Abo	ve 1G			
	4802.381	60.2	27	5.21	35.59	44	4.30	56.77	74	.00	-17.23	Pk	Vertical
	4802.381	43.0	62	5.21	35.59	44	4.30	40.12	54	.00	-13.88	AV	Vertical
	7206.088	64.4	46	6.48	36.27	44	4.60	62.61	74	.00	-11.39	Pk	Vertical
	7206.088	43.3	37	6.48	36.27	44	4.60	41.52	54	.00	-12.48	AV	Vertical
	4804.853	64.2	26	5.21	35.55	44	4.30	60.72	74	.00	-13.28	Pk	Horizontal
	4804.853	43.1	17	5.21	35.55	44	4.30	39.63	54	.00	-14.37	AV	Horizontal
	7206.517	62.1	15	6.48	36.27	44	4.52	60.38 74.0		.00	-13.62	Pk	Horizontal
	7206.517	43.3	39	6.48	36.27	44	4.52	41.62	54	.00	-12.38	AV	Horizontal
	Mid Channel (2440 MHz)(GFSK)Above 1G												
	4880.044	64.1	18	5.21	35.66	44	4.20	60.85	74	.00	-13.15	Pk	Vertical
	4880.044	43.4	47	5.21	35.66	44	4.20	40.14	54	.00	-13.86	AV	Vertical
	7320.268	61.2	29	7.10	36.50	44	4.43	60.46	74	.00	-13.54	Pk	Vertical
	7320.268	43.3		7.10	36.50		4.43	42.51	54		-11.49	AV	Vertical
	4880.802	61.3		5.21	35.66		4.20	57.97		.00	-16.03	Pk	Horizontal
	4880.802	43.		5.21	35.66	44	4.20	39.78	54	.00	-14.22	AV	Horizontal
	7320.367	63.2		7.10	36.50	44	4.43	62.45	74	.00	-11.55	Pk	Horizontal
	7320.367	43.		7.10	36.50	44	4.43	42.33		.00	-11.67	AV	Horizontal
					High Char	nel	(2480	MHz)(GFSK)) Abo	ove 10	6		
	4960.045	64.0	64	5.21	35.52	44	4.21	61.16	74	.00	-12.84	Pk	Vertical
	4960.045	43.2		5.21	35.52	44	4.21	39.74	54	.00	-14.26	AV	Vertical
	7440.264	60.0	66	7.10	36.53	44	4.60	59.69	74	.00	-14.31	Pk	Vertical
	7440.264	43.3		7.10	36.53	44	4.60	42.38	54	.00	-11.62	AV	Vertical
	4960.543	60.		5.21	35.52		4.21	57.31		.00	-16.69	Pk	Horizontal
	4960.543	43.2		5.21	35.52		4.21	39.78		.00	-14.22	AV	Horizontal
	7440.962	60.7		7.10	36.53		4.60	59.77		.00	-14.23	Pk	Horizontal
	7440.962	43.3		7.10	36.53		4.60	42.42		.00	-11.58	AV	Horizontal

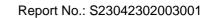
Note:

(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

NTEK 北测[®]



ι	JT:	Electroni	ic Shelf	Label	Mo	Model No.:		DS026			
e	mperature:	20 °C			Rel	ative Humidit	y:	48%			
e	st Mode:	Mode2/ Mode4			Tes	t By:		Mary	' Hu		
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lin	nits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	IV/m)	(dB)	Туре	
	1Mbps(GFSK)										
	2310.00	63.58	2.97	27.80	43.80	50.55	7	4	-23.45	Pk	Horizontal
	2310.00	39.38	2.97	27.80	43.80	26.35	5	4	-27.65	AV	Horizontal
	2310.00	62.11	2.97	27.80	43.80	49.08	7	4	-24.92	Pk	Vertical
	2310.00	43.11	2.97	27.80	43.80	30.08	5	4	-23.92	AV	Vertical
	2390.00	63.97	3.14	27.21	43.80	50.52	7	4	-23.48	Pk	Vertical
	2390.00	43.57	3.14	27.21	43.80	30.12	5	4	-23.88	AV	Vertical
	2390.00	63.29	3.14	27.21	43.80	49.84	7	4	-24.16	Pk	Horizontal
	2390.00	43.96	3.14	27.21	43.80	30.51	5	4	-23.49	AV	Horizontal
	2483.50	64.65	3.58	27.70	44.00	51.93	7	4	-22.07	Pk	Vertical
	2483.50	43.61	3.58	27.70	44.00	30.89	5	4	-23.11	AV	Vertical
	2483.50	60.18	3.58	27.70	44.00	47.46	7	4	-26.54	Pk	Horizontal
	2483.50	43.13	3.58	27.70	44.00	30.41	5	4	-23.59	AV	Horizontal

ilac-MR

ACCREE

Certificate #4298.01

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 	Spurious Emission in Restricted Band 3260MHz-18000MHz										
EUT:		Electro	onic Shelf	Label	Model	No.:		DS026			
Temperature	e: 1	20 °(C		Relativ	e Humidity	<i>'</i> :	48%			
Test Mode:	Test Mode: Mode2/ Mode4			Test By	/:		Mary	Hu			
Frequency		ading evel	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lir	nits	Margin	Detector	Comment
(MHz)	(dE	3μV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	ıV/m)	(dB)	Туре	
3260	63	3.34	4.04	29.57	44.70	52.25	7	74	-21.75	Pk	Vertical
3260	43	3.51	4.04	29.57	44.70	32.42	5	54	-21.58	AV	Vertical
3260	64	1.78	4.04	29.57	44.70	53.69	7	74	-20.31	Pk	Horizontal
3260	43	3.57	4.04	29.57	44.70	32.48	5	54	-21.52	AV	Horizontal
3332	64	1.54	4.26	29.87	44.40	54.27	7	74	-19.73	Pk	Vertical
3332	43	3.51	4.26	29.87	44.40	33.24	5	54	-20.76	AV	Vertical
3332	61	.00	4.26	29.87	44.40	50.73	7	74	-23.27	Pk	Horizontal
3332	43	3.09	4.26	29.87	44.40	32.82	5	54	-21.18	AV	Horizontal
17797	49	9.07	10.99	43.95	43.50	60.51	7	74	-13.49	Pk	Vertical
17797	34	1.02	10.99	43.95	43.50	45.46	5	54	-8.54	AV	Vertical
17788	47	7.72	11.81	43.69	44.60	58.62	7	74	-15.38	Pk	Horizontal
17788	34	1.66	11.81	43.69	44.60	45.56	5	54	-8.44	AV	Horizontal

ilac-MR

ACCREE

Certificate #4298.01

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:

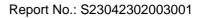
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

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:	Electronic Shelf Label	Model No.:	DS026
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.)

Certificate #4298.01

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

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

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

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}



7.4.6 Test Results

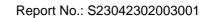
EUT:	Electronic Shelf Label	Model No.:	DS026
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

ACCREDITED

Certificate #4298.01

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:	Electronic Shelf Label	Model No.:	DS026
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:	Electronic Shelf Label	Model No.:	DS026
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:	Electronic Shelf Label	Model No.:	DS026	
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**

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

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

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 **Test Procedure**

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

7.8.5 Test Results

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





7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

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

7.9.2 **Result**

The EUT antenna is permanent attached PCB antenna (Gain: 2.21 dBi). It comply with the standard requirement.



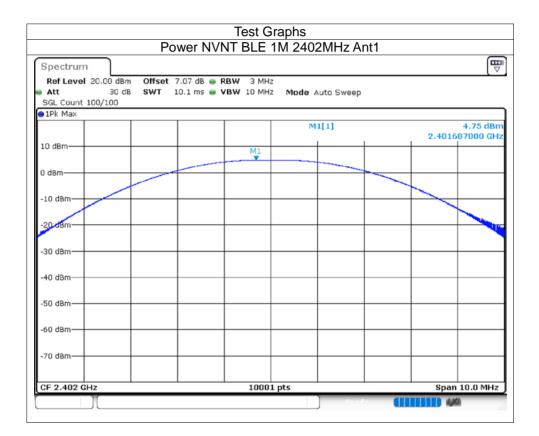
8 TEST RESULTS

1M:

8.1.1 Maximum Conducted Output Power

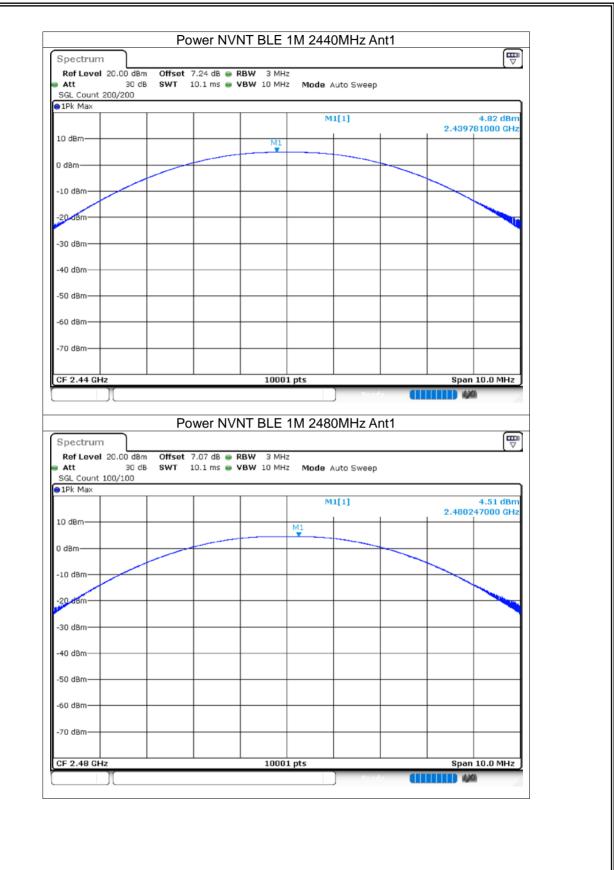
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	4.75	30	Pass
NVNT	BLE 1M	2440	Ant1	4.82	30	Pass
NVNT	BLE 1M	2480	Ant1	4.51	30	Pass

ACCREDITED





Report No.: S23042302003001



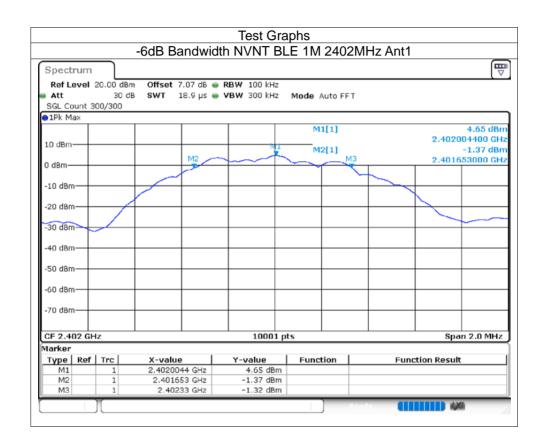
ACCREDITED



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	0.677	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.682	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.686	0.5	Pass

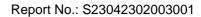
ACCREDITED







ACCREDITED



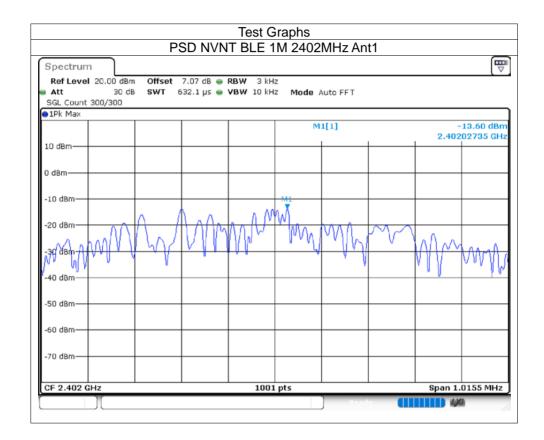


8.1.3 Maximum Power Spectral Density Level

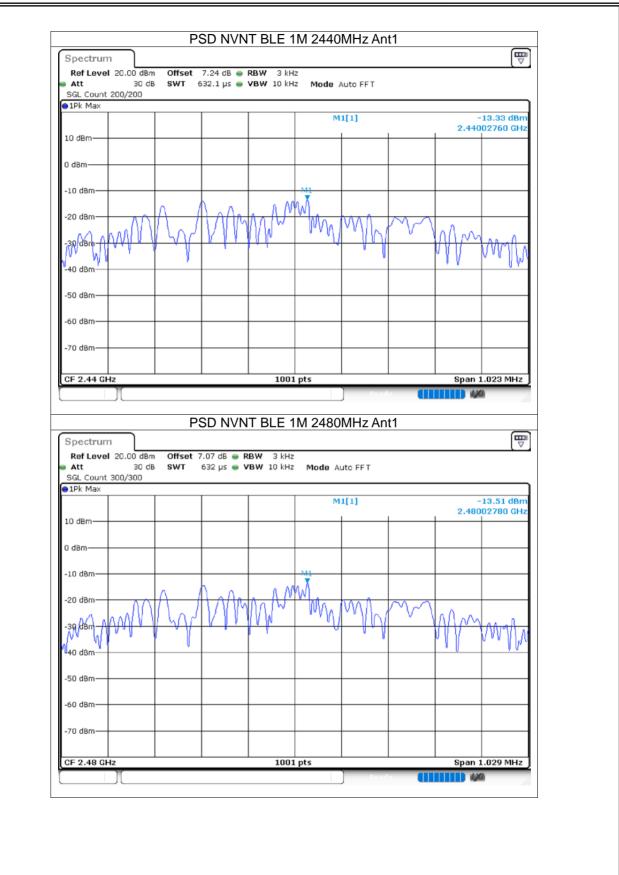
ilac-MR

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-13.6	8	Pass
NVNT	BLE 1M	2440	Ant1	-13.33	8	Pass
NVNT	BLE 1M	2480	Ant1	-13.51	8	Pass

ACCREDITED

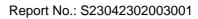






ACCREDITED





8.1.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-46.4	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.06	-20	Pass

ACCREDITED

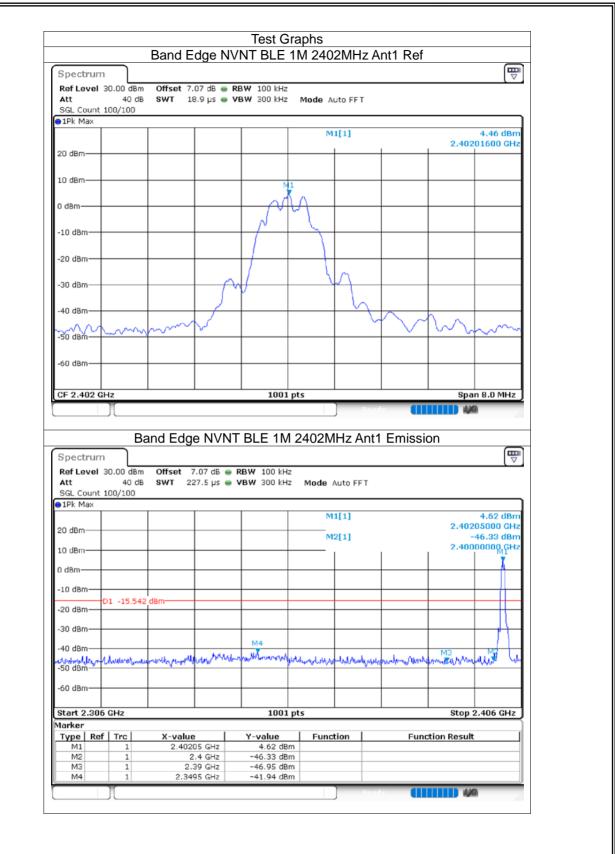


ilac-MR

ACCREDITED

Certificate #4298.01

Report No.: S23042302003001





Spectru	m								E
	I 30.00 dBm	Offset 7.0	7 dB 👄 RI	BW 100 kHz					L v J
Att	40 dB	3 SWT 18.	9 µs 👄 V	BW 300 kHz	Mode A	uto FFT			
SGL Coun 1Pk Max	t 100/100								
TEK Max				<u> </u>		1[1]			3.83 dBm
						-1-1		2.480	001600 GHz
20 dBm—		+ +							
10 dBm	<u> </u>			M	1				
0 dBm					1				
o ubili									
-10 dBm—					<u> </u>				
-20 dBm—		++		\mid					
)	~			
-30 dBm—			$- \cap$	\vee					
			1						
-40 dBm—		~	<u>al</u>						
-50 dBm-	mm	\sim	~~~			5	m	m	m
-30 uBIII-									
-60 dBm—									
CF 2.48 G				1001	nte			0	in 8.0 MHz
CF 2.48 G				1001	pts)		spa	m 8.0 MH2 J
						Reac			
)			- ////
						,			
	В	and Edge	NVNT	BLE 1M	2480M	IHz Ant1	Emissi	on	- 116
Spectru	J	and Edge	NVNT	BLE 1M	2480M	IHz Ant1	Emissi	on	
	J					IHz Ant1	Emissi	on	
Ref Leve Att	m 30.00 dBm 40 dB	n Offset 7.	07 dB 👄 🖡		!		Emissi	on	
Ref Leve Att SGL Coun	m 1 30.00 dBm	n Offset 7.	07 dB 👄 🖡	RBW 100 kHz	!		Emissi	on	
Ref Leve Att SGL Coun	m 30.00 dBm 40 dB	n Offset 7.	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT	Emissi	on	
Ref Leve Att SGL Coun 1Pk Max	m 30.00 dBm 40 dB	n Offset 7.	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz
Ref Leve Att SGL Coun 1Pk Max 20 dBm-	m 30.00 dBm 40 dB	n Offset 7.	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT	Emissi	2.480	4.35 dBm 005000 GHz -44.19 dBm
Ref Leve Att SGL Coun 1Pk Max 20 dBm-	m 30.00 dBm 40 dB	n Offset 7.	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm	m 30.00 dBm 40 dB	n Offset 7.	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz -44.19 dBm
Att SGL Coun 1Pk Max 20 dBm 10 dBm 0 dBm	m 30.00 dBm 40 dB	n Offset 7.	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz -44.19 dBm
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10 dBm -10 dBm -10 dBm	m 30.00 dBm 40 dB	n Offset 7. 3 SWT 227	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz -44.19 dBm
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rd8m	m 40 dBm	n Offset 7. 3 SWT 227	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz -44.19 dBm
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10 dBm -10 dBm -10 dBm	m 40 dBm	n Offset 7. 3 SWT 227	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz -44.19 dBm
Ref Leve Att SGL Coun IPk Max 20 dBm 10rdBm 0 dBn -10 dBm -20 dBm -30 dBm	m 40 dBm40 dE40 dE E40 dE E40 dE E40 dE E40 dE	n Offset 7. 3 SWT 227	07 dB 👄 🖡	RBW 100 kHz	: Mode /	Auto FFT 1[1]	Emissi	2.480	4.35 dBm 005000 GHz -44.19 dBm
Ref Leve Att SGL Coun IPk Max 20 dBm 10rdBm 0 dBn -10 cBm -20 cBm	M 30.00 dBm 40 dE t 100/100	2 dBm	07 dB 🖝 Γ	88W 100 kHz VBW 300 kHz	: Mode / M	Auto FFT 1[1] 2[1]		2.480	4.35 dBm 005000 GH2 -44.19 dBm 550000 GH2
Ref Leve Att SGL Coun IPk Max 20 dBm 10rdBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm ²	M 30.00 dBm 40 dE t 100/100	2 dBm	07 dB 🖝 Γ	RBW 100 kHz	: Mode / M	Auto FFT 1[1] 2[1]		2.480	4.35 dBm 005000 GH2 -44.19 dBm 550000 GH2
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dBn -10 cBm -20 cBm -30 dBm	M 30.00 dBm 40 dE t 100/100	2 dBm	07 dB 🖝 Γ	88W 100 kHz VBW 300 kHz	: Mode / M	Auto FFT 1[1] 2[1]		2.480	4.35 dBm 005000 GH2 -44.19 dBm 550000 GH2
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dB n -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	M 30.00 dBm 40 dE t 100/100	2 dBm	07 dB 🖝 Γ	88W 100 kHz VBW 300 kHz	: Mode / M	Auto FFT 1[1] 2[1]		2.480	4.35 dBm 005000 GH2 -44.19 dBm 550000 GH2
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	D1 -16.17	2 dBm	07 dB 🖝 Γ	88W 100 kHz VBW 300 kHz	Mode /	Auto FFT 1[1] 2[1]		2.480 	4.35 dBm 005000 GH2 -44.19 dBm 550000 GH2
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm Start 2.4	D1 -16.17	n Offset 7. 3 SWT 227 2 dBm 2 dBm	07 dB 🖝 Γ	28 W 100 kHz VBW 300 kHz	Mode / M M س س yuwhaybaya yuwhaybaya	Auto FFT 1[1] 2[1]		2.480 2.483	4.35 dBm 05000 GHz -44.19 dBm 550000 GHz
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dBn -10 cBm -20 cBm -30 dBm -30 dBm -60 dBm -60 dBm Start 2.4' Marker Type	1 30.00 dBm 40 dE t 100/100	n Offset 7. 3 SWT 227	07 dB 7.5 μs 1 1 1 1 1 1 1 1 1 1 1 1 1	RBW 100 kHz VBW 300 kHz VBW	Mode / M M سلم سلم سلم سلم سلم	Auto FFT 1[1] 2[1]		2.480 	4.35 dBm 05000 GHz -44.19 dBm 550000 GHz
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm Start 2.4	D1 -16.17	n Offset 7. 3 SWT 227 2 dBm 2 dBm	07 dB 7.5 µs 1.5 µs	28 W 100 kHz VBW 300 kHz	: Mode / M س س پلایندیایانی pts	Auto FFT 1[1] 2[1]		2.480 2.483	4.35 dBm 05000 GHz -44.19 dBm 550000 GHz
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm Start 2.47 Marker Type M2 M3	Bef Trc 1 1 30.00 dBm 40 dE 100/100	n Offset 7. 3 SWT 227 2 dBm 2 dBm 2 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 8 0 1 2.4800 2.3 8 2.4800 2.3 2.4800 2.3 2.4800 2.3 2.4800 2.3 2.4800 2.3 3 2.4800 2.3 3 2.4 3 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 5 4 5	07 dB ● F 7.5 µs ● N 5 GH2 5 GH2 5 GH2	RBW 100 kHz VBW 300 kHz VBW 300 kHz Image: State of the	: Mode / M M M M M M M M M M M M M	Auto FFT 1[1] 2[1]		2.480 2.483	4.35 dBm 05000 GHz -44.19 dBm 550000 GHz
Ref Leve Att SGL Coun 1Pk Max 20 dBm 10rdBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Start 2.4: M1 M2	D1 -16.17	A Offset 7 SWT 227 2 dBm 2 dBm 4 2 dBm	07 dB ● F 7.5 µs ● N 5 GH2 5 GH2 5 GH2	BW 100 kHz /BW 300 kHz /BW 300 kHz /BW 300 kHz /BW 300 kHz /BW 100 kHz /BW 100 kHz /BW 100 kHz /BW 100 kHz /BW 100 kHz /BW 300 kHz /BW 30	: Mode / M M M M M M M M M M M M M	Auto FFT 1[1] 2[1]		2.480 2.483	4.35 dBm 05000 GHz -44.19 dBm 550000 GHz

ACCREDITED



NTEK 北测[®]

8.1.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.08	-20	Pass
NVNT	BLE 1M	2440	Ant1	-47.29	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.46	-20	Pass



ilac-MR

ACCREDITED

Certificate #4298.01

Report No.: S23042302003001





Spectrum	¹								
Ref Level	20.00 dB	m Offset 7.3	24 dB 🥌 I	RBW 100 kHz					
Att	30 0	B SWT 18	3.9 µs 👄 '	VBW 300 kHz	Mode Auto	FFT			
SGL Count	100/100								
1Pk Max				1		1			4.60 dBm
					M1[1	1		2.4400	4.63 dBm 027000 GHz
10 dBm		++							
				M1					I I
0 dBm		+		$\rightarrow \frown +$	~				<u> </u>
							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		I I
-10 dBm								~	<u> </u>
									$\mathbf{N}$
-20 dBpr		++		+					
-30 dBm-+		++		+					
-40 dBm		+ +							
-50 dBm				+					
-60 dBm		+ +		+ +					
-70 dBm		+ +							<u> </u>
CF 2.44 GH	Iz			30001 p	ts			Sna	an 1.5 MHz
Cusatur		k. Spurious	s NVN	T BLE 1M		Pood Iz Ant1	I Emiss	ion	
Spectrum Ref Level	20.00 dB	m Offset 7.3	24 dB 🧉 I	T BLE 1M	] 2440MH		I Emiss	ion	
Ref Level Att	20.00 dB 30 d	m Offset 7.3	24 dB 🧉 I	T BLE 1M	] 2440MH		I Emiss	ion	<b>4</b> (₩) (∀)
Ref Level Att SGL Count	20.00 dB 30 d	m Offset 7.3	24 dB 🧉 I	T BLE 1M	] 2440MH		I Emiss	ion	
Ref Level Att	20.00 dB 30 d	m Offset 7.3	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto	o Sweep	I Emiss	ion	
Ref Level Att SGL Count 1Pk Max	20.00 dB 30 d	m Offset 7.3	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz
Ref Level Att SGL Count 1Pk Max	20.00 dB 30 d	m Offset 7.3	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level Att SGL Count 1Pk Max	20.00 dB 30 d	m Offset 7.3	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	20.00 dB 30 d 10/10	m Offset 7.3	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm	20.00 dB 30 d	m Offset 7.3	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level Att SGL Count IPk Max 10 dBm 10 dBm -10 dBm -20 dBm	20.00 dB 30 d 10/10	m Offset 7.3	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm -10 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level Att SGL Count IPk Max 10 dBm 10 dBm -10 dBm -20 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	o Sweep	I Emiss	2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level           Att           SGL Count           IPk Max           10 dBm           .0 dBm           -10 dBm           -20 dBm           -30 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🧉 I	T BLE 1M	2440MH Mode Auto M1[1	) Sweep ] ]	I Emiss	2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level           Att           SGL Count           IPk Max           10 dBm           .0 dBm           .10 dBm           .20 dBm           .30 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🖷 I 55 ms 🖷 V	T BLE 1M	2440MH Mode Auto M1[1	) Sweep ] ]		2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level           Att           SGL Count           IPk Max           10 dBm           .0 dBm           -10 dBm           -20 dBm           -30 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🖷 I 55 ms 🖷 V	T BLE 1M	2440MH Mode Auto M1[1	) Sweep ] ]		2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           .0 dBm           .10 dBm           .20 dBm           .30 dBm           .40 dBm           .50 dBm           .80 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🖷 I 55 ms 🖷 V	T BLE 1M	2440MH Mode Auto M1[1	) Sweep ] ]		2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level           Att           SGL Count           IPk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🖷 I 55 ms 🖷 V	T BLE 1M	2440MH Mode Auto M1[1	) Sweep ] ]		2.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           .0 dBm           .10 dBm           .20 dBm           .30 dBm           .40 dBm           .50 dBm           .80 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🖷 I 55 ms 🖷 V		2440MH Mode Auto M1[1 	) Sweep ] ]		2. 4.	1.96 dBm 440010 GHz -42.67 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	20.00 dB 30 d 10/10	m Offset 7.3 dB SWT 26	24 dB 🖷 I 55 ms 🖷 V	T BLE 1M	2440MH Mode Auto M1[1 	) Sweep ] ]		2. 4.	1.96 dBm 440010 GHz -42.67 dBm 880186 GHz
Ref Level           Att           SGL Count           IPk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0 f           Marker           Type	20.00 dB 30 d 10/10 D1 -15.37 M MHz	m Offset 7.3	24 dB	T BLE 1M	2440MH Mode Auto M1[1 	o Sweep		2. 4.	1.96 dBm 440010 GHz -42.67 dBm 880186 GHz
Ref Level           Att           SGL Count           IPk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           -80 dBm           -70 dBm           Start 30.0 f           Marker           Type         Ref           M1	20.00 dB 30 d 10/10 D1 -15.37 M MHz f Trc 1	m Offset 7.3 JB SWT 26 2 dBm 2 dBm 3 4 4 4 4 4 4 4 4 4 4 4 4 4	24 dB 55 ms 1 GHz	T BLE 1M	2440MH	o Sweep		2. 4.	1.96 dBm 440010 GHz -42.67 dBm 880186 GHz
Ref Level           Att           SGL Count           IPk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0 f           Marker           Type	20.00 dB 30 d 10/10 D1 -15.37 M MHz	m Offset 7.3	24 dB 55 ms 1 1 GHz 5 GHz	T BLE 1M	2440MH	o Sweep		2. 4.	1.96 dBm 440010 GHz -42.67 dBm 880186 GHz
Ref Level           Att           SGL Count           IPk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           Marker           Type         Ref           M1           M2           M4	20.00 dB 30 d 10/10 D1 -15.37 M MHz E Trc 1 1 1 1	m Offset 7.3 B SWT 26 2 dBm 2 dBm	24 dB 55 ms 55 ms 1 1 1 1 1 1 1 1 1 1 1 1 1	T BLE 1M	2440MH	o Sweep		2. 4.	1.96 dBm 440010 GHz -42.67 dBm 880186 GHz
Ref Level           Att           SGL Count           IPk Max           10 dBm           .0 dBm           .0 dBm           .20 dBm           .30 dBm           .30 dBm           .40 dBm           .50 dBm           .70 dBm           .7	20.00 dB 30 d 10/10 D1 -15.37 MHz MHz Trc 1 1 1	m Offset 7.1 B SWT 26 2 dBm 2 dBm 2 dBm 2 dBm 2 dBm 2 dBm 2 dBm 4.880186 4.880186	24 dB 55 ms 55 ms 1 1 1 1 1 1 1 1 1 1 1 1 1	T BLE 1M	2440MH	o Sweep		2. 4.	1.96 dBm 440010 GHz -42.67 dBm 880186 GHz
Ref Level           Att           SGL Count           IPk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           Marker           Type         Ref           M1           M2           M4	20.00 dB 30 d 10/10 D1 -15.37 M MHz E Trc 1 1 1 1	m Offset 7.3 B SWT 26 2 dBm 2 dBm	24 dB 55 ms 55 ms 1 1 1 1 1 1 1 1 1 1 1 1 1	T BLE 1M	2440MH	o Sweep		2. 4.	1.96 dBm 440010 GHz -42.67 dBm 880186 GHz

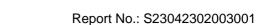
ACCREDITED



Spectrun									
Ref Leve Att	l 20.00 dBn 30 dB			RBW 100 kHz	Mede				
SGL Count		18	rə 🖷	<b>VBW</b> 300 kHz	mode /	AUTO PP 1			
∋1Pk Max									
					M	1[1]			4.41 dBm
10 dBm							_	2.4800	093500 GHz
10 0011				1					1 I
0 dBm			$\sim$		$\overline{}$	$\checkmark$			
									1 I
-10 dBm—				+ +			_		
-20 dBm				+ +					
-30 dBm									
-40 dBm									
lo abii									
-50 dBm									
-60 dBm—		++		++				+	
-70 dBm								1	
CF 2.48 G	Hz			30001	pts			Sp	an 1.5 MHz
						Re	ady 🚺		XII
	_][	. Spurious	s NVN	T BLE 1M		) Re 1Hz Ar	odv 🚺 ht1 Emis		
	n I 20.00 dBn	n Offset 7.0	07 dB 👄	T BLE 1M	2480N				
Ref Leve Att	n I 20.00 dBn 30 dB	n Offset 7.0	07 dB 👄	T BLE 1M	2480N				
Ref Leve	n I 20.00 dBn 30 dB	n Offset 7.0	07 dB 👄	T BLE 1M	2480N				
Ref Leve Att SGL Count	n I 20.00 dBn 30 dB	n Offset 7.0	07 dB 👄	T BLE 1M	2480N Mode 4			sion	1.75 dBm
Ref Leve Att SGL Count 1Pk Max	n I 20.00 dBn 30 dB	n Offset 7.0	07 dB 👄	T BLE 1M	2480N Mode 4	Auto Swee		sion	1.75 dBm 479720 GHz
Ref Leve Att SGL Count 1Pk Max	n I 20.00 dBn 30 dB	n Offset 7.0	07 dB 👄	T BLE 1M	2480N Mode 4	luto Swee		sion 2.	1.75 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm M 0 dBm	n I 20.00 dBn 30 dB	n Offset 7.0	07 dB 👄	T BLE 1M	2480N Mode 4	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -10 dBm	n I 20.00 dBn 30 dB	n Offset 7.0 3 SWT 26	07 dB 👄	T BLE 1M	2480N Mode 4	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	n	n Offset 7.0 3 SWT 26	07 dB 👄	T BLE 1M	2480N Mode 4	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -10 dBm	n	n Offset 7.0 3 SWT 26	07 dB 👄	T BLE 1M	2480N Mode 4	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm	n	n Offset 7.0 3 SWT 26	07 dB 👄	T BLE 1M	Mode /	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n	dBm	07 dB 👄	T BLE 1M	Mode /	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm	n 30 dB 30 dE 5/5	dBm	07 dB 🖷	T BLE 1M	Mode /	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n 30 dB 30 dE 5/5	dBm	07 dB 🖷	T BLE 1M	Mode /	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n 30 dB 30 dE 5/5	dBm	07 dB 🖷	T BLE 1M	Mode /	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           .0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	n 30 dB 30 dE 5/5	dBm	07 dB 🖷	T BLE 1M	Mode /	Auto Swee		sion 2.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           IPk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           Stort 30.0	n 30 dB 30 dE 5/5	dBm	07 dB 🖷	T BLE 1M	Mode 4	Auto Swee		2. 15.	1.75 dBm 479720 GHz -46.06 dBm
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           .0 dBm           .10 dBm           .20 dBm           .30 dBm           .40 dBm           .50 dBm           .50 dBm           .70 dBm           .70 dBm           .70 dBm	n 30 dB 30 dE 5/5	A Offset 7.0 3 SWT 26 dBm dBm a M4 a M4	07 dB 🖷	T BLE 1M	Mode / Mode / Mi Mi Mi Mi	1[1] 2[1]		2. 15.	1.75 dBm 479720 GHz -46.06 dBm 842296 GHz
Ref Leve           Att           SGL Count           IPk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           Stort 30.0	n 30 dB 30 dE 5/5	dBm	07 dB 55 ms	T BLE 1M	Mode / Mode / M: M: M: M: M: M: M: M: M: M: M: M: M:	1[1] 2[1]		2. 15.	1.75 dBm 479720 GHz -46.06 dBm 842296 GHz
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Bartart 30.0           Marker           Type           M1	m 30 dB 30 dB 55/5	A Offset 7.0 3 SWT 26 48 48 48 48 48 48 48 48 48 48	07 dB 55 ms	T BLE 1M	Mode 4	1[1] 2[1]		2. 15.	1.75 dBm 479720 GHz -46.06 dBm 842296 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           .0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -50 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2           M3	n 30 de 30 de 5/5 	A Offset 7.0 3 SWT 26 3 SWT 26 48 48 48 48 5 5.053124	07 dB 55 ms 55 ms 55 ms 55 ms 5 ms	T BLE 1M	Mode #	1[1] 2[1]		2. 15.	1.75 dBm 479720 GHz -46.06 dBm 842296 GHz
Ref Leve           Att           SGL Count           1Pk Max           10 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Bartaria           -70 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm           Marker           Type           M1           M2	m 30 dB 30 dB 55/5	A Offset 7.0 3 SWT 26 48 48 48 48 48 48 48 48 48 48	07 dB 55 ms 55 ms 45 ms	T BLE 1M	Mode / Mode / Mode / M: M: M: M: M: M: M: M: M: M:	1[1] 2[1]		2. 15.	1.75 dBm 479720 GHz -46.06 dBm 842296 GHz
Ref Leve           Att           SGL Count           IPk Max           10 dBm           .0 dBm           .10 dBm           .20 dBm           .20 dBm           .30 dBm           .40 dBm           .50 dBm           .70 dBm           .50 dBm           .70 dBm	n 20.00 dBn 30 dE 5/5 1 1 1 1 1 1 1	A Offset 7.0 3 SWT 26 3 SWT 26 4 4 4 4 4 4 4 4 4 4 4 4 4	07 dB 55 ms 55 ms 45 ms	T BLE 1M	Mode / Mode / Mode / M: M: M: M: M: M: M: M: M: M:	1[1] 2[1]		sion 2. 15. 	1.75 dBm 479720 GHz -46.06 dBm 842296 GHz

ACCREDITED





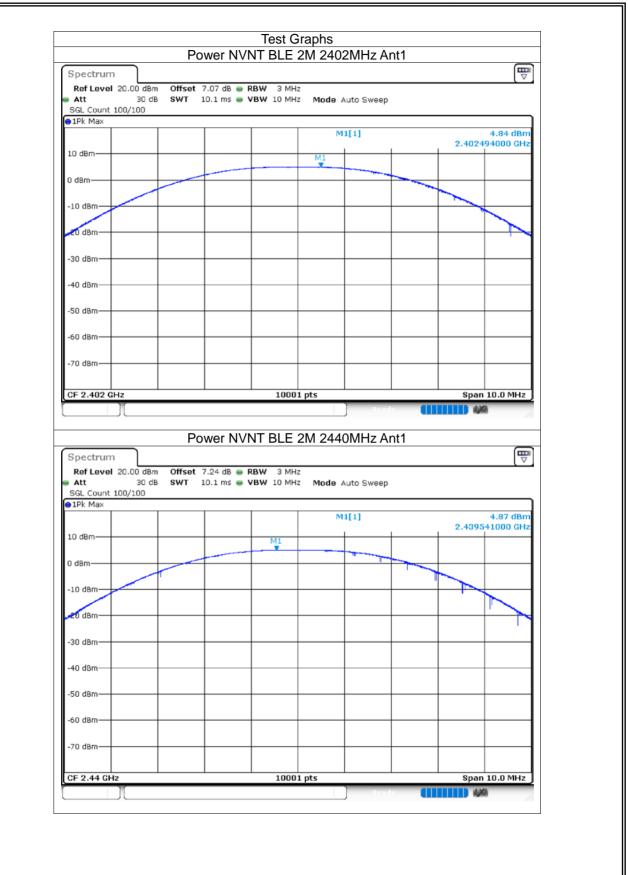
#### 2M:

## 8.1.6 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	4.84	30	Pass
NVNT	BLE 2M	2440	Ant1	4.87	30	Pass
NVNT	BLE 2M	2480	Ant1	4.55	30	Pass

ACCREDITED





ACCREDITED



					MHz Ant1		Ē
Spectrum							
Ref Level 20.00 d		.07 dB 👄 RI					
Att 30 SGL Count 100/100		0.1 ms 👄 VI	BW 10 MHz	Mode Au	to Sweep		
1Pk Max							
				M1	[1]	2 47	4.55 dBm 9504000 GHz
10 dBm			M1			2.17	
0 dBm						~	
						and the second s	
-10 dBm	1						
						· · · ·	
20 dBm							-
-30 dBm							_
-40 dBm							
-50 dBm							_
-60 dBm							
-70 dBm							
CF 2.48 GHz	· · ·	I	10001	pts		Sp	an 10.0 MHz

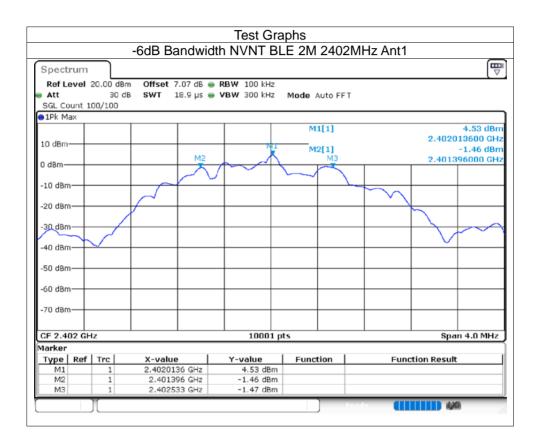
ACCREDITED



### 8.1.7 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.137	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.168	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.172	0.5	Pass

ACCREDITED







ACCREDITED

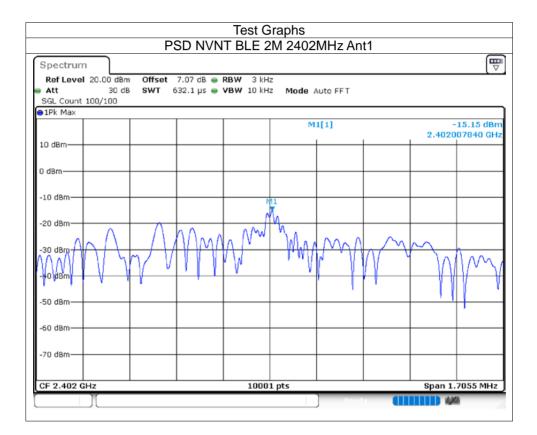


## 8.1.8 Maximum Power Spectral Density Level

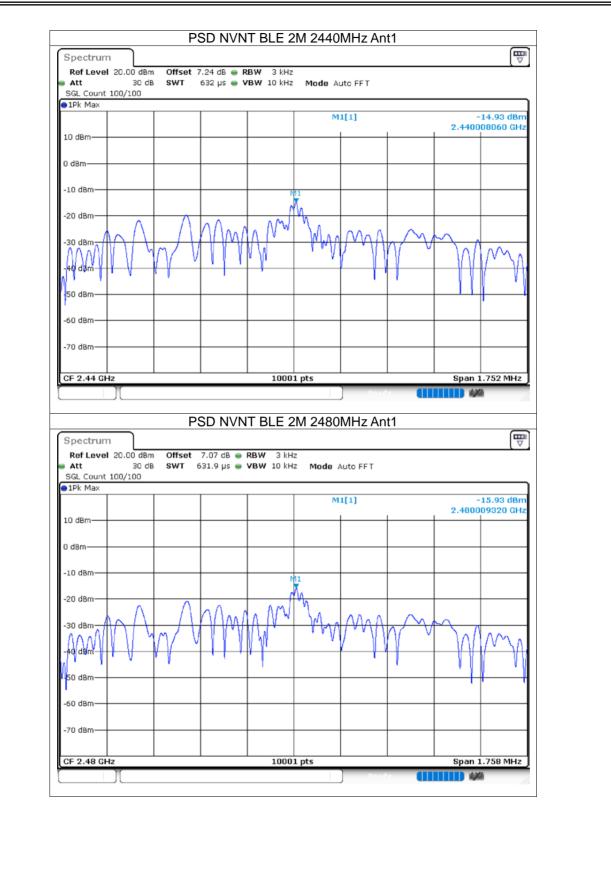
ilac-MR

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-15.15	8	Pass
NVNT	BLE 2M	2440	Ant1	-14.93	8	Pass
NVNT	BLE 2M	2480	Ant1	-15.93	8	Pass

ACCREDITED

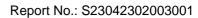






ACCREDITED





## 8.1.9 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
Condition NVNT NVNT	BLE 2M	2402	Ant1	-57.11	-20	Pass
NVNT	BLE 2M	2480	Ant1	-52.97	-20	Pass

ACCREDITED

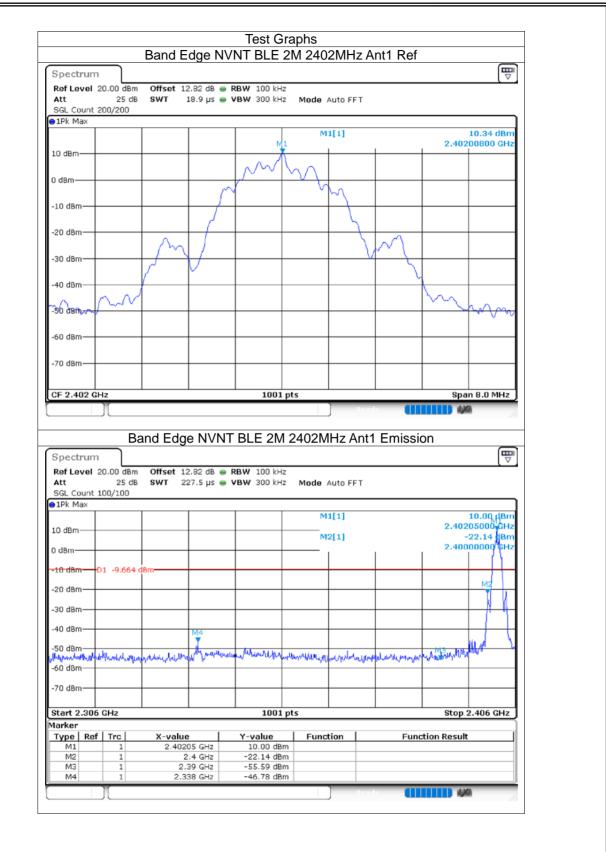


ilac-MR

ACCREDITED

Certificate #4298.01

#### Report No.: S23042302003001





Spectrun Ref Level Att SGL Count	20.00 dBm 25 dB			RBW 100 kHz VBW 300 kHz		uto FFT				
1Pk Max										
					MI	l[1]		0.400	7.95 dBm	
10 dBm				MI				2.480	00000 GHz	
				I. m. M						
0 dBm			-		$\mathcal{M}$					
				V	~					
-10 dBm										
						h				
-20 dBm							Δ			
0.0 - 10		ΙΛΛ				1	$\sim$			
-30 dBm		10	$\mathbb{V}$				5			
-40 dBm		$\sim$				V	L 1			
to ubili	001							$\setminus \land$		
50 dBm	$\downarrow \land \lor \downarrow$								$\sim$	
Pro C	r -								$\sim$	
-60 dBm										
-70 dBm										
				1001	nto			- Cro	n 8.0 MHz	1
CE 2.48 CL	H7							aha		
CF 2.48 GI	][	and Edge	e NVNT	BLE 2M		Hz Ant1	Emissi	on		-
Spectrun Ref Level	Ba n 20.00 dBm	Offset 12	2.82 dB 👄	BLE 2M	2480M		Emissi	on		-
Spectrun Ref Level Att SGL Count	Ba n 20.00 dBm 25 dB	Offset 12	2.82 dB 👄	BLE 2M	2480M		Emissi	on		-
Spectrun Ref Level Att SGL Count	Ba n 20.00 dBm 25 dB	Offset 12	2.82 dB 👄	BLE 2M	2480M	uto FFT	Emissi	on		-
Spectrun Ref Level Att SGL Count 1Pk Max M1	Ba n 20.00 dBm 25 dB	Offset 12	2.82 dB 👄	BLE 2M	2480M		Emissi			-
Spectrun Ref Level Att SGL Count 1Pk Max M1	Ba n 20.00 dBm 25 dB	Offset 12	2.82 dB 👄	BLE 2M	2480M	uto FFT	Emissi	2.480	8.88 dBm 05000 GHz -53.15 dBm	-
Spectrum Ref Level Att SGL Count 1Pk Max	Ba n 20.00 dBm 25 dB	Offset 12	2.82 dB 👄	BLE 2M	2480M	uto FFT	Emissi	2.480		-
Spectrum Ref Level Att SGL Count JPk Max 10 dBm 0 dBm	Ba n 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB 👄	BLE 2M	2480M	uto FFT	Emissi	2.480	8.88 dBm 05000 GHz -53.15 dBm	-
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm	Ba n 20.00 dBm 25 dB	Offset 12 SWT 22	2.82 dB 👄	BLE 2M	2480M	uto FFT	Emissie	2.480	8.88 dBm 05000 GHz -53.15 dBm	-
Spectrum Ref Level Att SGL Count JPk Max 10 dBm 0 dBm	Ba n 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB 👄	BLE 2M	2480M	uto FFT		2.480	8.88 dBm 05000 GHz -53.15 dBm	-
Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm	Ba n 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB 👄	BLE 2M	2480M	uto FFT	Emissie	2.480	8.88 dBm 05000 GHz -53.15 dBm	-
Spectrum Ref Level Att SGL Count 1Pk Max 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm	Ba n 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB 👄	BLE 2M	2480M	uto FFT	Emissie	2.480	8.88 dBm 05000 GHz -53.15 dBm	-
Spectrun Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	Ba n 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB 👄	BLE 2M	2480M	uto FFT		2.480	8.88 dBm 05000 GHz -53.15 dBm	
Spectrum Ref Level Att SGL Count 1Pk Max 1Pk Max 0 dBm -10 dBm -20 dBm -30 dBm	Ba 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB	BLE 2M	2480M	Auto FFT		2.480	8.88 dBm 05000 GHz 53.15 dBm 50000 GHz	
Spectrun Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	Ba n 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB	BLE 2M	2480M	Auto FFT		2.480	8.88 dBm 05000 GHz -53.15 dBm	
Spectrun Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	Ba 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB	BLE 2M	2480M	Auto FFT		2.480	8.88 dBm 05000 GHz 53.15 dBm 50000 GHz	
Spectrum Ref Level Att SGL Count 10 cBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	Ba 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB	BLE 2M	2480M	Auto FFT		2.480	8.88 dBm 05000 GHz 53.15 dBm 50000 GHz	
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm	Ba 20.00 dBm 25 dB 100/100 01 -12.049	Offset 12 SWT 22	2.82 dB	BLE 2M	2480M	Auto FFT		2.480 - 2.483 	8.88 dBm 05000 GHz 53.15 dBm 50000 GHz	
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm	Ba 20.00 dBm 25 dB 100/100 01 -12.049	Offset 12 SWT 22	2.82 dB	BLE 2M	2480M	Auto FFT		2.480 - 2.483 	8.88 dBm 05000 GHz 53.15 dBm 50000 GHz	
Spectrum Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm	Ba 20.00 dBm 25 dB 100/100	Offset 12 SWT 22	2.82 dB 17.5 μs 1 1 1 1 1 1 1 1 1 1 1 1 1	BLE 2M	2480M	Auto FFT ا[1] 2[1]		2.480 2.483	8.88 dBm 05000 GHz 53.15 dBm 53.15 dBm 944,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm	Ba 20.00 dBm 25 dB 100/100	Offset 12 SWT 22 dBm dBm	2.82 dB ● 1 27.5 µs ● 1	BLE 2M	2480M	Auto FFT ا[1] 2[1]		2.480 - 2.483 	8.88 dBm 05000 GHz 53.15 dBm 53.15 dBm 944,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	
Spectrum Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm	Ba 20.00 dBm 25 dB 100/100 01 -12.049 6 GHz 6 GHz 6 GHz	Offset 12 SWT 22 dBm dBm uud Tyd JW uud Tyd JW S C 2,480 2,480 2,480	2.82 dB 27.5 μs 27.5 μs 27.5 μs 27.5 μs 20.6 μs 27.5	BLE 2M	2480M	Auto FFT ا[1] 2[1]		2.480 2.483	8.88 dBm 05000 GHz 53.15 dBm 53.15 dBm 944,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70	Ba 20.00 dBm 25 dB 100/100 01 -12.049 01 -12.049	Offset 12 SWT 22 dBm dBm kto x-value 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.48000 2.48000 2.48000 2.48000 2.480000 2.48000000000000000000000000000000000000	2.82 dB 27.5 μs 27.5	BLE 2M	2480M	Auto FFT ا[1] 2[1]		2.480 2.483	8.88 dBm 05000 GHz 53.15 dBm 53.15 dBm 944,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	
Spectrum Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm	Ba 20.00 dBm 25 dB 100/100 01 -12.049 6 GHz 6 GHz 6 GHz	Offset 12 SWT 22 dBm dBm kto x-value 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.4800 2.48000 2.48000 2.48000 2.48000 2.480000 2.48000000000000000000000000000000000000	2.82 dB 27.5 μs 27.5 μs 27.5 μs 27.5 μs 20.6 μs 27.5	BLE 2M	2480M	Auto FFT ا[1] 2[1]		2.480 2.483	8.88 dBm 05000 GHz 53.15 dBm 53.15 dBm 944,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	

ACCREDITED



# NTEK 北测[®]

## 8.1.10 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-47.97	-20	Pass
NVNT	BLE 2M	2440	Ant1	-50.59	-20	Pass
NVNT	BLE 2M	2480	Ant1	-50.26	-20	Pass Pass

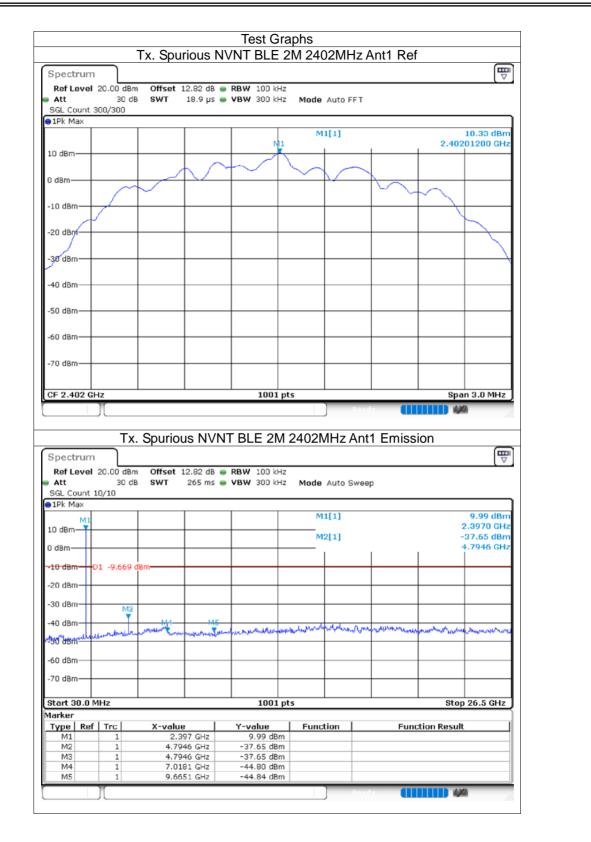


ilac-MR

ACCREDITED

Certificate #4298.01

#### Report No.: S23042302003001

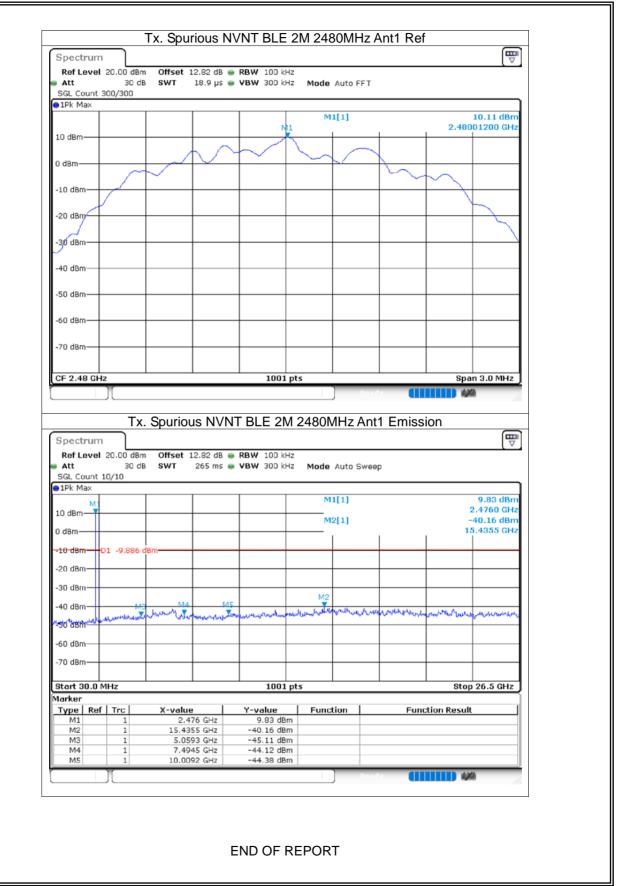




Spectrum	n ]						
Ref Level	20.00 dBr	m Offset 12.99 dB	) 😑 RBW 100 kHz				
Att 🛛	30 d	B <b>SWT</b> 18.9 μs	; 👄 <b>VBW</b> 300 kHz	Mode Auto FF	т		
SGL Count	300/300						
TEK MIGX				M1[1]			10.49 dBm
			M1	milil		2.44	000300 GHz
10 dBm							
0 dBm				<u> </u>	$\neg$		
	$\sim$	$\sim$ 1				$\sim$	
-10 dBm						$\rightarrow$	
	$\mathcal{V}$					'	
-20 dBm							
-30 dBm-							
-40 dBm							
-50 dBm							
				ļ			
-60 dBm							
-70 dBm							
CF 2.44 GH	Ηz		1001 pt	s		Spa	n 3.0 MHz
1				-			
	J	. Spurious NV		R	nt1 Emiss		<u>a</u>
Spectrum	n		/NT BLE 2M 2	R	nt1 Emiss		
	J	m <b>Offset</b> 12.99 dB		2440MHz A			<u>a</u>
Ref Level	n I 20.00 dBr 30 d	m <b>Offset</b> 12.99 dB	/NT BLE 2M 2	2440MHz A			<u>a</u>
Ref Level Att	n I 20.00 dBr 30 d	m <b>Offset</b> 12.99 dB	/NT BLE 2M 2	2440MHz A Mode Auto Sw			
Ref Level Att SGL Count 1Pk Max	n I 20.00 dBr 30 d	m <b>Offset</b> 12.99 dB	/NT BLE 2M 2	2440MHz A		ion	
Ref Level Att SGL Count 1Pk Max	n I 20.00 dBr 30 d	m <b>Offset</b> 12.99 dB	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1]		ion	10.32 dBm 2.4500 GHz
Ref Level Att SGL Count 1Pk Max	n I 20.00 dBr 30 d	m <b>Offset</b> 12.99 dB	/NT BLE 2M 2	2440MHz A Mode Auto Sw		ion	
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm	n I 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1]		ion	10.32 dBm 2.4500 GHz -40.11 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm	n I 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1]		ion	10.32 dBm 2.4500 GHz -40.11 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm	n I 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1]		ion	10.32 dBm 2.4500 GHz -40.11 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm	n I 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1]		ion	10.32 dBm 2.4500 GHz -40.11 dBm
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1]	/eep		10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1]	/eep		10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1]	/eep		10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1]	/eep		10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1]	/eep		10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1]	/eep		10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	Mode Auto Sw Mode Auto Sw M1[1] M2[1]	/eep		10.32 dBm 2.4500 GHz 40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm	1 20.00 dBr 30 d 10/10	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	Mode Auto Sw Mode Auto Sw M1[1] M2[1]	/eep		10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           Start 30.0	1 20.00 dBr 30 d 10/10 01 -9.510	m Offset 12.99 dB B SWT 265 ms dBm dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1] M2[1] S		ion 1	10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm	1 20.00 dBr 30 d 10/10 01 -9.510	m Offset 12.99 dB B SWT 265 ms dBm	/NT BLE 2M 2	Mode Auto Sw Mode Auto Sw M1[1] M2[1]			10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2	MHz	m Offset 12.99 dB B SWT 265 ms dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1] M2[1] S		ion 1	10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -60 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2           M3	MHz	m Offset 12.99 dB B SWT 265 ms dBm dBm dBm 2.45 GHz 15.9649 GHz 4.874 GHz	/NT BLE 2M :	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1] M2[1] S		ion 1	10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           Start 30.0           Marker           Type           M1           M2	MHz	m Offset 12.99 dB B SWT 265 ms dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1] M2[1] S		ion 1	10.32 dBm 2.4500 GHz -40.11 dBm 5.9649 GHz
Ref Level           Att           SGL Count           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           -70 dBm           -80 dBm           -70 dBm           Marker           Type           M1           M2           M3	MHz	m Offset 12.99 dB B SWT 265 ms dBm- dBm- dBm- dBm- dBm- dBm- dBm- dBm-	/NT BLE 2M 2	2440MHz A Mode Auto Sw M1[1] M2[1] M2[1] M2[1] S	reep	ion 1	10.32 dBm 2.4500 GHz 40.11 dBm 5.9649 GHz

ACCREDITED





ACCREDITED