

Radio Test Report

Report No.:CTA231129003W06

Issued for

Lexiang Technology Co., LTD

5th Floor, Jufeng Optical Medical Device Industrial Park, No.
120, Keyuan Weisi Road, Laoshan District, Qingdao City,
Shandong Province, China

Product Name: DPVR ALL IN ONE

Brand Name: DPVR

Model Name: P2

Series Model(s): N/A

FCC ID: 2A878-P2

Test Standards: FCC Part15.247

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Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT

Applicant's Name: Lexiang Technology Co., LTD

Address: 5th Floor, Jufeng Optical Medical Device Industrial Park, No. 120, Keyuan Weisi Road, Laoshan District, Qingdao City, Shandong Province, China

Manufacturer's Name: Lexiang Technology Co., LTD

Address: 5th Floor, Jufeng Optical Medical Device Industrial Park, No. 120, Keyuan Weisi Road, Laoshan District, Qingdao City, Shandong Province, China

Product Description

Product Name: DPVR ALL IN ONE

Brand Name: DPVR

Model Name: P2

Series Model(s): N/A

Test Standards: FCC Part15.247

Test Procedure: ANSI C63.10-2013

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

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Date of Test:

Date of receipt of test item: 29 Aug. 2023

Date (s) of performance of tests: 29 Aug. 2023 ~ 24 Sept. 2023

Date of Issue: 24 Sept. 2023

Test Result: **Pass**

Testing Engineer : 

(Zoey Cao)

Technical Manager : 

(Amy Wen)

Authorized Signatory : 

(Eric Wang)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	24 Sept. 2023	CTA231129003W06	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted bands of operation	PASS	--
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.

1.1 TEST FACTORY

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

FCC test Firm Registration Number: 517856

IC test Firm Registration Number: 27890

A2LA Certificate No.: 6534.01

IC CAB ID: CN0127

1.2 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 %.

Test	Range	Measurement Uncertainty
Radiated Emission	30~1000MHz	4.06 dB
Radiated Emission	1~18GHz	5.14 dB
Radiated Emission	18-40GHz	5.38 dB
Conducted Disturbance	0.15~30MHz	2.14 dB
Output Peak power	30MHz~18GHz	0.55 dB
Power spectral density	/	0.57 dB
Spectrum bandwidth	/	1.1%
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	DPVR ALL IN ONE	
Brand Name	DPVR	
Model Name	P2	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is a DPVR ALL IN ONE	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK
	Radio Technology:	BLE
	Bluetooth Configuration:	LE(Support 1M PHY, 2M PHY)
	Number Of Channel:	40
	Antenna Type:	FPC
	Antenna Gain (dBi)	3.99 dBi
Channel List	Please refer to the Note 3.	
Power rating	DC 9V 2A	
Battery	Rated Voltage: DC 3.8V Charge Limit Voltage: DC 4.35V Capacity: 5600mAh	
Hardware version number	EM_AX136_MB_V1.0B	
Software version number	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Worst Mode	Description	Data/Modulation
Mode 4	TX CH00(2402MHz)	2M PHY /GFSK
Mode 5	TX CH19(2440MHz)	2M PHY /GFSK
Mode 6	TX CH39(2480MHz)	2M PHY /GFSK

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.
- (3) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 7 : Keeping BT TX

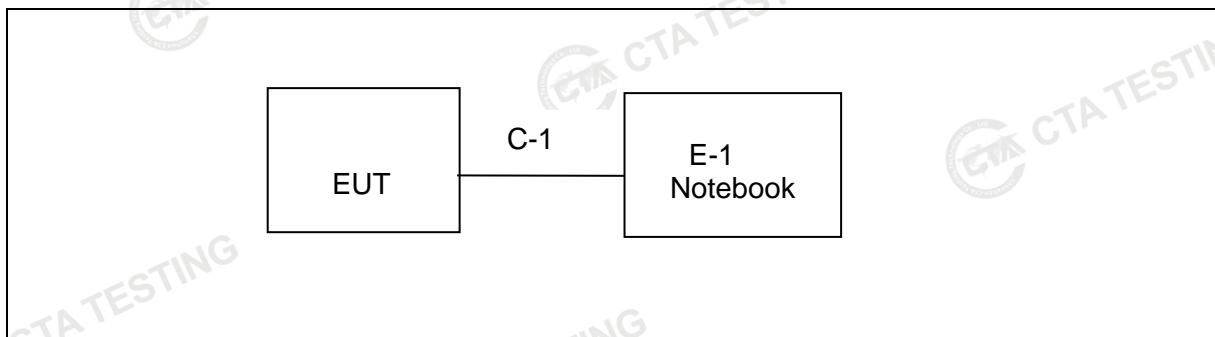
2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

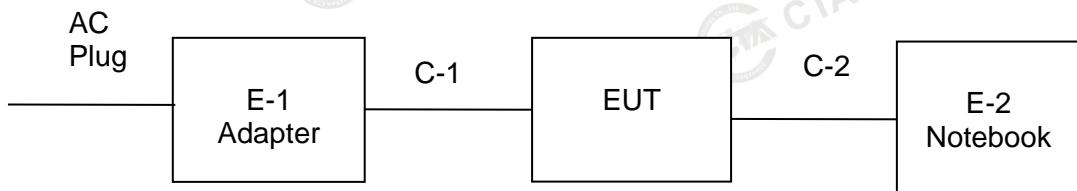
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE(With 2M PHY)	BLE_1M PHY	GFSK	3.99	Default	QDART_WIN_4_8_Installer_00082_1
	BLE_2M PHY	GFSK	3.99	Default	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-1	Notebook	DELL	VOSTRO.3800	N/A	N/A
C-1	USB Cable	N/A	100cm	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in «Length» column.
- (2) "YES" is means "with core"; "NO" is means "without core".

2.6 EQUIPMENTS LIST

Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2023/08/02	2024/08/01
LISN	R&S	ENV216	CTA-314	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/08/01
Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/08/01
Spectrum Analyzer	R&S	FSP	CTA-337	2023/08/02	2024/08/01
Vector Signal generator	Agilent	N5182A	CTA-305	2023/08/02	2024/08/01
Analog Signal Generator	R&S	SML03	CTA-304	2023/08/02	2024/08/01
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	R&S	CTA-302	2023/08/02	2024/08/01
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/08/01
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/16
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/12
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/16
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/06
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/01
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08/01
Directional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08/01
Automated filter bank	Tonscend	JS0806-F	CTA-404	2023/08/02	2024/08/01
Power Sensor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/01
Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/01

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A
RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

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

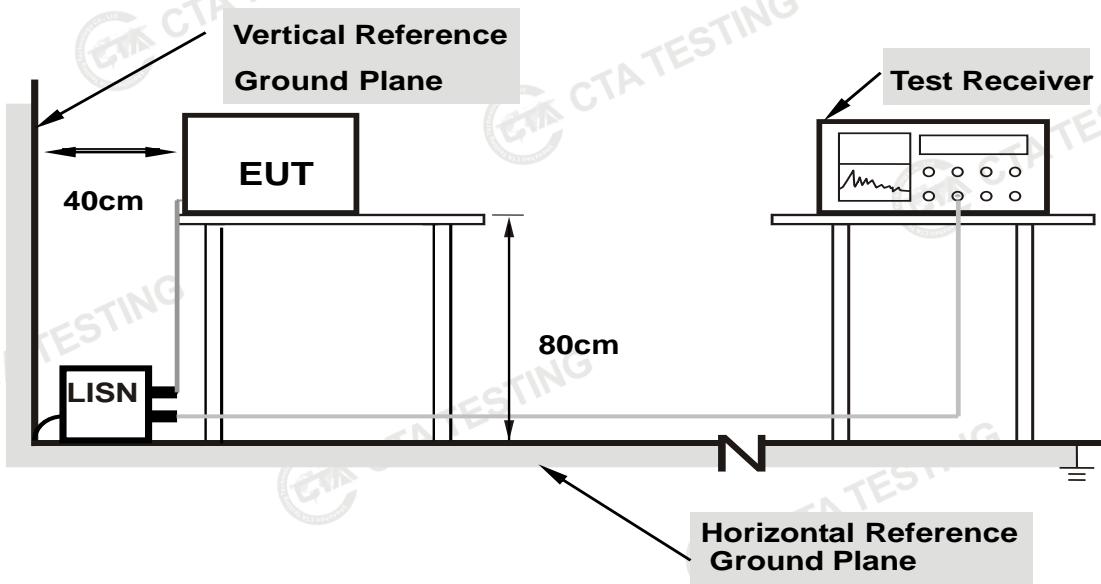
The following table is the setting of the receiver

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

3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note:

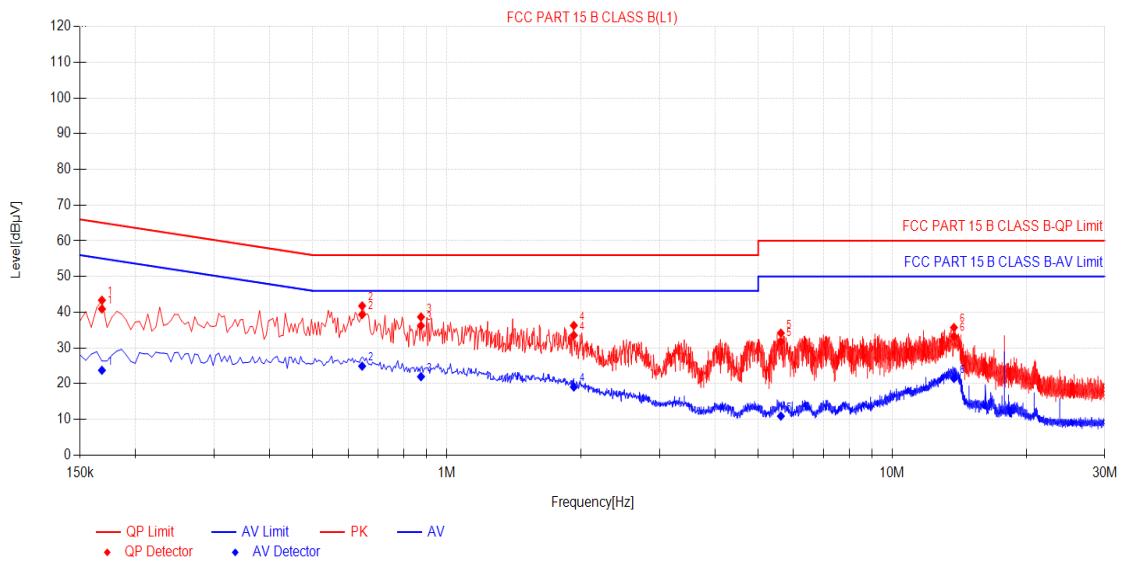
1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.5 TEST RESULTS

Temperature:	26.2(C)	Relative Humidity:	5%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 7		



Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dB μ V]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Reading [dB μ V]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Verdict
1	0.168	10.50	30.42	40.92	65.06	24.14	13.25	23.75	55.06	31.31	PASS
2	0.645	10.50	28.84	39.34	56.00	16.66	14.40	24.90	46.00	21.10	PASS
3	0.8745	10.50	25.73	36.23	56.00	19.77	11.47	21.97	46.00	24.03	PASS
4	1.9275	10.50	23.05	33.55	56.00	22.45	8.58	19.08	46.00	26.92	PASS
5	5.622	10.50	21.30	31.80	60.00	28.20	0.41	10.91	50.00	39.09	PASS
6	13.758	10.50	22.75	33.25	60.00	26.75	10.98	21.48	50.00	28.54	PASS

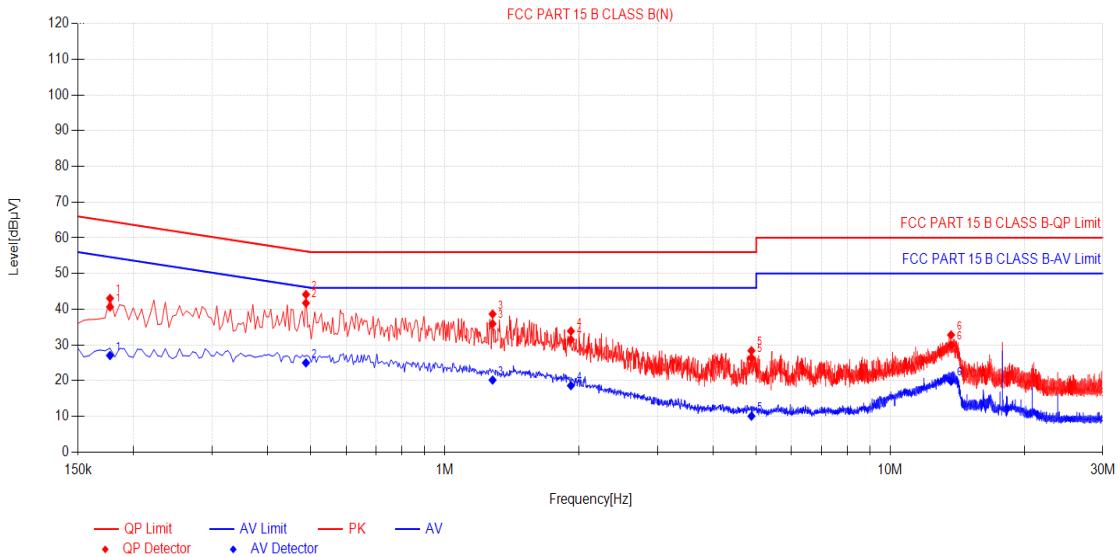
Note:1).QP Value (dB μ V)= QP Reading (dB μ V)+ Factor (dB)

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dB μ V) - QP Value (dB μ V)

4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V)

Temperature:	26.2(C)	Relative Humidity:	5%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 7		



Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dB μ V]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Reading [dB μ V]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Verdict
1	0.177	10.50	30.15	40.65	64.63	23.98	16.55	27.05	54.63	27.58	PASS
2	0.4875	10.50	31.24	41.74	56.21	14.47	14.49	24.99	46.21	21.22	PASS
3	1.2795	10.50	25.44	35.94	56.00	20.06	9.67	20.17	46.00	25.83	PASS
4	1.9185	10.50	20.58	31.48	56.00	24.52	8.12	18.62	46.00	27.38	PASS
5	4.8795	10.50	15.88	26.38	56.00	29.62	-0.43	10.07	46.00	35.93	PASS
6	13.695	10.50	19.49	29.99	60.00	30.01	9.37	19.87	50.00	30.13	PASS

Note:1).QP Value (dB μ V)= QP Reading (dB μ V)+ Factor (dB)

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dB μ V) - QP Value (dB μ V)

4). AVMargin(dB) = AV Limit (dB μ V) - AV Value (dB μ V)

4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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	Above 38.6
13.36-13.41			

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2410 MHz Upper Band Edge: 2475 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

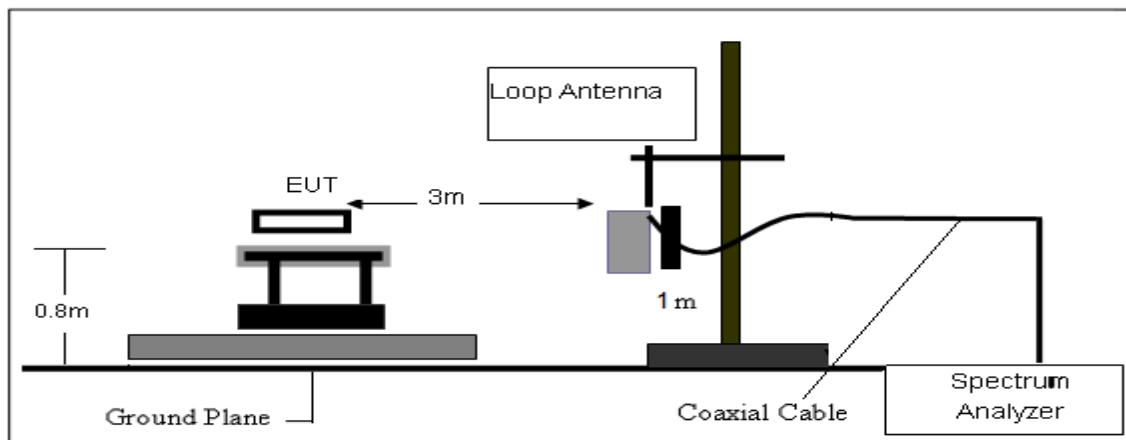
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

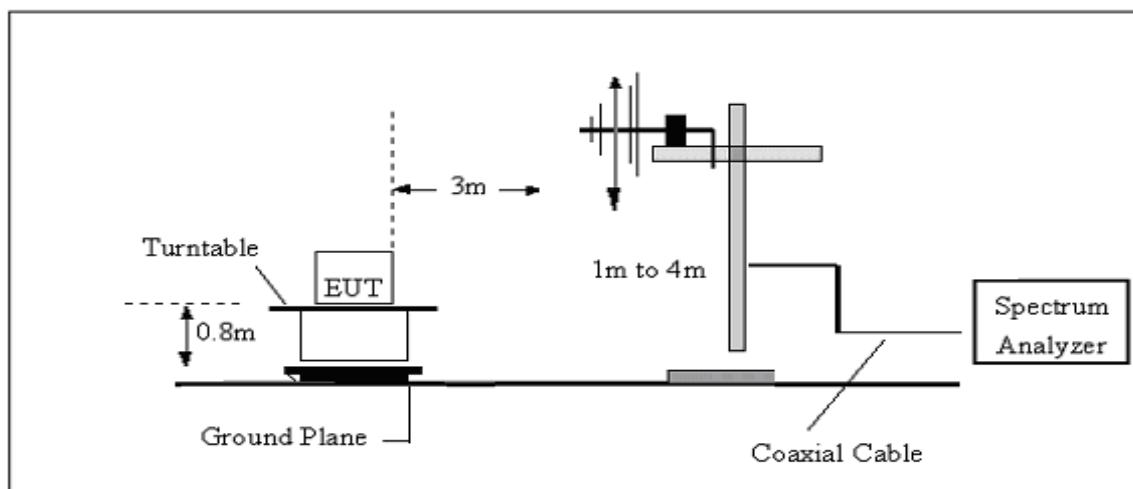
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

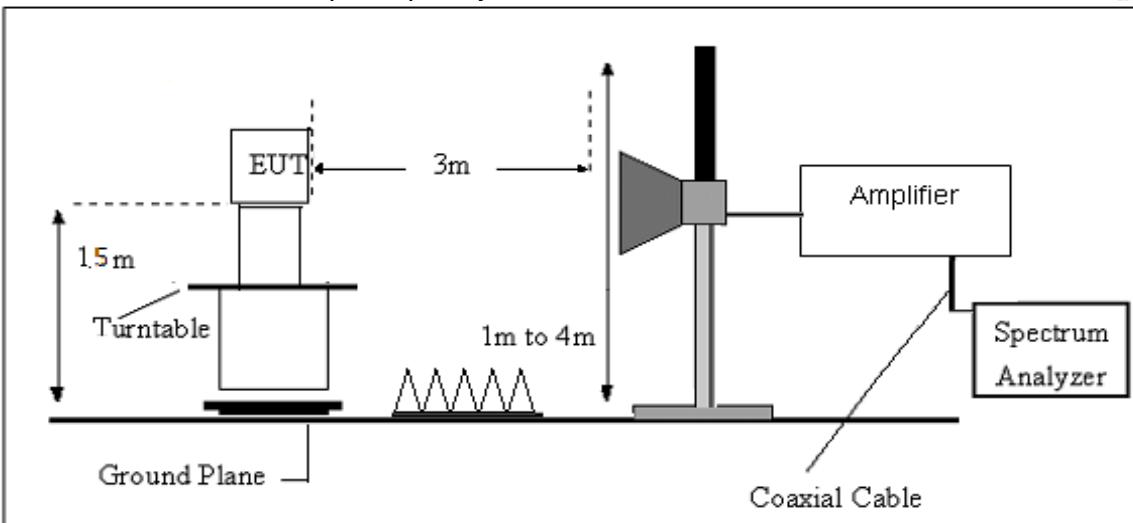
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.

4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Factor (dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = AF + CL - AG$$

4.6 TEST RESULTS

(Between 9KHz – 30 MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.8V	Polarization:	--
Test Mode:	TX Mode		

Freq. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State
--	--	--	--	P/F
--	--	--	--	PASS
--	--	--	--	PASS

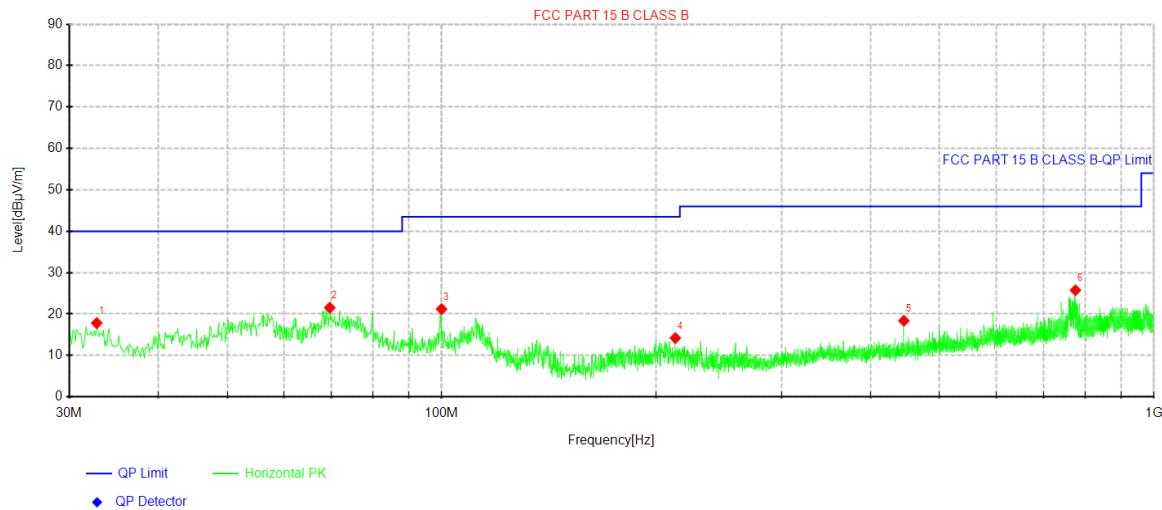
Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
Limit line = specific limits(dBuV) + distance extrapolation factor.

(30MHz -1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.8V	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6 (Mode 6 worst mode)		



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.7888	36.08	17.83	-18.25	40.00	22.17	100	30	Horizontal
2	69.6488	42.33	21.54	-20.79	40.00	18.46	100	320	Horizontal
3	99.9613	39.58	21.21	-18.37	43.50	22.29	100	300	Horizontal
4	212.845	33.22	14.21	-19.01	43.50	29.29	100	260	Horizontal
5	445.523	33.50	18.39	-15.11	46.00	27.61	100	310	Horizontal
6	775.808	36.35	25.76	-10.59	46.00	20.24	100	160	Horizontal

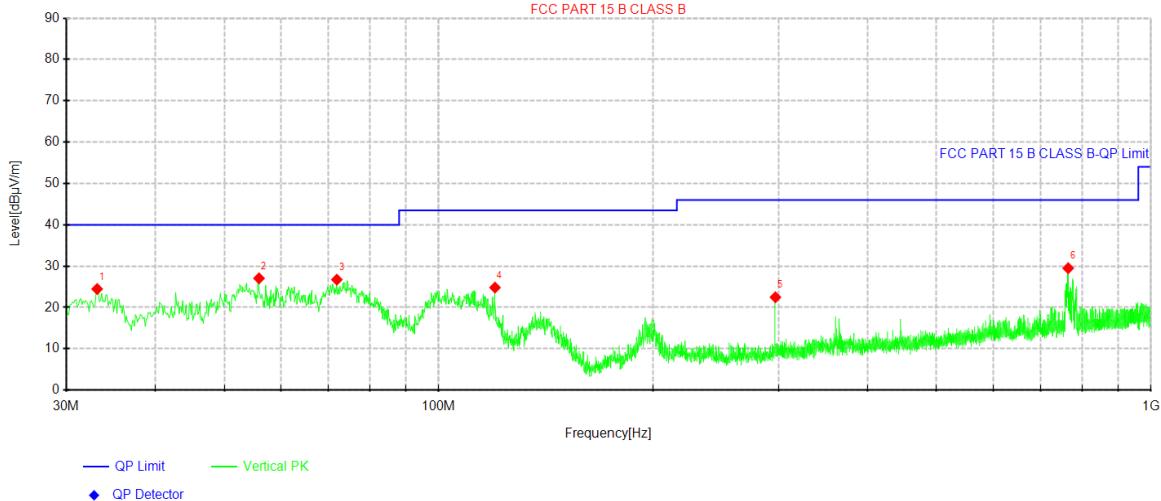
Note:1).Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)

4). All modes have been tested,only show the worst case.

Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.8V	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6 (Mode 6 worst mode)		



Suspected Data List									
NO.	Freq. [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.1525	42.64	24.46	-18.18	40.00	15.54	100	170	Vertical
2	55.9475	44.39	27.05	-17.34	40.00	12.95	100	290	Vertical
3	71.9525	47.70	26.73	-20.97	40.00	13.27	100	70	Vertical
4	119.967	45.10	24.81	-20.29	43.50	18.69	100	40	Vertical
5	296.992	39.87	22.48	-17.39	46.00	23.52	100	100	Vertical
6	765.138	40.13	29.51	-10.62	46.00	16.49	100	60	Vertical

Note: 1).Level (dB μ V/m)= Reading (dB μ V)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dB μ V/m) - Level (dB μ V/m)

4). All modes have been tested, only show the worst case.

(1GHz-25GHz) Spurious emission Requirements

1M PHY
GFSK

Frequency (MHz)	Meter Reading (dB μ V)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type	Comment
Low Channel (GFSK/2402 MHz)										
3264.86	62.10	44.70	6.70	28.20	-9.80	52.30	74.00	-21.70	PK	Vertical
3264.86	50.08	44.70	6.70	28.20	-9.80	40.28	54.00	-13.72	AV	Vertical
3264.68	60.98	44.70	6.70	28.20	-9.80	51.18	74.00	-22.82	PK	Horizontal
3264.68	49.87	44.70	6.70	28.20	-9.80	40.07	54.00	-13.93	AV	Horizontal
4804.56	58.26	44.20	9.04	31.60	-3.56	54.70	74.00	-19.30	PK	Vertical
4804.56	50.51	44.20	9.04	31.60	-3.56	46.95	54.00	-7.05	AV	Vertical
4804.42	58.29	44.20	9.04	31.60	-3.56	54.73	74.00	-19.27	PK	Horizontal
4804.42	49.96	44.20	9.04	31.60	-3.56	46.40	54.00	-7.60	AV	Horizontal
5359.72	49.19	44.20	9.86	32.00	-2.34	46.85	74.00	-27.15	PK	Vertical
5359.72	39.70	44.20	9.86	32.00	-2.34	37.36	54.00	-16.64	AV	Vertical
5359.69	48.12	44.20	9.86	32.00	-2.34	45.78	74.00	-28.22	PK	Horizontal
5359.69	38.32	44.20	9.86	32.00	-2.34	35.98	54.00	-18.02	AV	Horizontal
7205.79	54.97	43.50	11.40	35.50	3.40	58.37	74.00	-15.63	PK	Vertical
7205.79	44.17	43.50	11.40	35.50	3.40	47.57	54.00	-6.43	AV	Vertical
7205.79	54.55	43.50	11.40	35.50	3.40	57.95	74.00	-16.05	PK	Horizontal
7205.79	44.17	43.50	11.40	35.50	3.40	47.57	54.00	-6.43	AV	Horizontal
Middle Channel (GFSK/2440 MHz)										
3263.01	61.55	44.70	6.70	28.20	-9.80	51.75	74.00	-22.25	PK	Vertical
3263.01	50.75	44.70	6.70	28.20	-9.80	40.95	54.00	-13.05	AV	Vertical
3263.06	62.10	44.70	6.70	28.20	-9.80	52.30	74.00	-21.70	PK	Horizontal
3263.06	51.01	44.70	6.70	28.20	-9.80	41.21	54.00	-12.79	AV	Horizontal
4880.09	59.26	44.20	9.04	31.60	-3.56	55.70	74.00	-18.30	PK	Vertical
4880.09	49.28	44.20	9.04	31.60	-3.56	45.72	54.00	-8.28	AV	Vertical
4879.99	58.33	44.20	9.04	31.60	-3.56	54.77	74.00	-19.23	PK	Horizontal
4879.99	49.83	44.20	9.04	31.60	-3.56	46.27	54.00	-7.73	AV	Horizontal
5357.13	48.72	44.20	9.86	32.00	-2.34	46.37	74.00	-27.63	PK	Vertical
5357.13	39.86	44.20	9.86	32.00	-2.34	37.51	54.00	-16.49	AV	Vertical
5357.39	48.01	44.20	9.86	32.00	-2.34	45.66	74.00	-28.34	PK	Horizontal
5357.17	39.40	44.20	9.86	32.00	-2.34	37.06	54.00	-16.94	AV	Horizontal
7320.85	53.70	43.50	11.40	35.50	3.40	57.10	74.00	-16.90	PK	Vertical
7320.85	44.74	43.50	11.40	35.50	3.40	48.14	54.00	-5.86	AV	Vertical
7320.39	53.55	43.50	11.40	35.50	3.40	56.95	74.00	-17.05	PK	Horizontal
7320.39	43.75	43.50	11.40	35.50	3.40	47.15	54.00	-6.85	AV	Horizontal

High Channel (GFSK/2480 MHz)										
3264.83	62.18	44.70	6.70	28.20	-9.80	52.38	74.00	-21.62	PK	Vertical
3264.83	51.01	44.70	6.70	28.20	-9.80	41.21	54.00	-12.79	AV	Vertical
3264.70	62.16	44.70	6.70	28.20	-9.80	52.36	74.00	-21.64	PK	Horizontal
3264.70	50.76	44.70	6.70	28.20	-9.80	40.96	54.00	-13.04	AV	Horizontal
4960.54	58.69	44.20	9.04	31.60	-3.56	55.13	74.00	-18.87	PK	Vertical
4960.54	50.51	44.20	9.04	31.60	-3.56	46.95	54.00	-7.05	AV	Vertical
4960.44	59.49	44.20	9.04	31.60	-3.56	55.93	74.00	-18.07	PK	Horizontal
4960.44	49.14	44.20	9.04	31.60	-3.56	45.58	54.00	-8.42	AV	Horizontal
5359.67	48.30	44.20	9.86	32.00	-2.34	45.96	74.00	-28.04	PK	Vertical
5359.67	40.39	44.20	9.86	32.00	-2.34	38.04	54.00	-15.96	AV	Vertical
5359.64	47.39	44.20	9.86	32.00	-2.34	45.04	74.00	-28.96	PK	Horizontal
5359.64	38.65	44.20	9.86	32.00	-2.34	36.31	54.00	-17.69	AV	Horizontal
7439.73	54.35	43.50	11.40	35.50	3.40	57.75	74.00	-16.25	PK	Vertical
7439.73	44.74	43.50	11.40	35.50	3.40	48.14	54.00	-5.86	AV	Vertical
7439.73	53.55	43.50	11.40	35.50	3.40	56.95	74.00	-17.05	PK	Horizontal
7439.73	44.06	43.50	11.40	35.50	3.40	47.46	54.00	-6.54	AV	Horizontal

Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

2M PHY

GFSK

Frequency (MHz)	Meter Reading (dB μ V)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type	Comment
Low Channel (GFSK/2402 MHz)										
3264.73	62.28	44.70	6.70	28.20	-9.80	52.48	74.00	-21.52	PK	Vertical
3264.73	51.30	44.70	6.70	28.20	-9.80	41.50	54.00	-12.50	AV	Vertical
3264.85	61.22	44.70	6.70	28.20	-9.80	51.42	74.00	-22.58	PK	Horizontal
3264.85	51.10	44.70	6.70	28.20	-9.80	41.30	54.00	-12.70	AV	Horizontal
4804.52	59.49	44.20	9.04	31.60	-3.56	55.93	74.00	-18.07	PK	Vertical
4804.52	49.82	44.20	9.04	31.60	-3.56	46.26	54.00	-7.74	AV	Vertical
4804.41	58.43	44.20	9.04	31.60	-3.56	54.87	74.00	-19.13	PK	Horizontal
4804.41	49.73	44.20	9.04	31.60	-3.56	46.17	54.00	-7.83	AV	Horizontal
5359.83	48.42	44.20	9.86	32.00	-2.34	46.08	74.00	-27.92	PK	Vertical
5359.83	39.13	44.20	9.86	32.00	-2.34	36.79	54.00	-17.21	AV	Vertical
5359.85	47.65	44.20	9.86	32.00	-2.34	45.31	74.00	-28.69	PK	Horizontal
5359.85	38.20	44.20	9.86	32.00	-2.34	35.85	54.00	-18.15	AV	Horizontal
7205.85	53.56	43.50	11.40	35.50	3.40	56.96	74.00	-17.04	PK	Vertical
7205.85	43.76	43.50	11.40	35.50	3.40	47.16	54.00	-6.84	AV	Vertical
7205.83	53.79	43.50	11.40	35.50	3.40	57.19	74.00	-16.81	PK	Horizontal
7205.83	43.80	43.50	11.40	35.50	3.40	47.20	54.00	-6.80	AV	Horizontal
Middle Channel (GFSK/2440 MHz)										
3263.10	61.30	44.70	6.70	28.20	-9.80	51.50	74.00	-22.50	PK	Vertical
3263.10	50.22	44.70	6.70	28.20	-9.80	40.42	54.00	-13.58	AV	Vertical
3262.93	61.43	44.70	6.70	28.20	-9.80	51.63	74.00	-22.37	PK	Horizontal
3262.93	50.87	44.70	6.70	28.20	-9.80	41.07	54.00	-12.93	AV	Horizontal
4880.10	59.40	44.20	9.04	31.60	-3.56	55.84	74.00	-18.16	PK	Vertical
4880.10	49.87	44.20	9.04	31.60	-3.56	46.31	54.00	-7.69	AV	Vertical
4880.05	59.61	44.20	9.04	31.60	-3.56	56.05	74.00	-17.95	PK	Horizontal
4880.05	49.61	44.20	9.04	31.60	-3.56	46.05	54.00	-7.95	AV	Horizontal
5357.33	48.27	44.20	9.86	32.00	-2.34	45.93	74.00	-28.07	PK	Vertical
5357.33	38.96	44.20	9.86	32.00	-2.34	36.62	54.00	-17.38	AV	Vertical
5357.39	47.33	44.20	9.86	32.00	-2.34	44.98	74.00	-29.02	PK	Horizontal
5357.18	38.95	44.20	9.86	32.00	-2.34	36.61	54.00	-17.39	AV	Horizontal
7320.85	54.91	43.50	11.40	35.50	3.40	58.31	74.00	-15.69	PK	Vertical
7320.85	44.17	43.50	11.40	35.50	3.40	47.57	54.00	-6.43	AV	Vertical
7320.39	54.24	43.50	11.40	35.50	3.40	57.64	74.00	-16.36	PK	Horizontal
7320.39	43.54	43.50	11.40	35.50	3.40	46.94	54.00	-7.06	AV	Horizontal

High Channel (GFSK/2480 MHz)										
3264.80	62.15	44.70	6.70	28.20	-9.80	52.35	74.00	-21.65	PK	Vertical
3264.80	50.40	44.70	6.70	28.20	-9.80	40.60	54.00	-13.40	AV	Vertical
3264.84	61.71	44.70	6.70	28.20	-9.80	51.91	74.00	-22.09	PK	Horizontal
3264.84	50.20	44.70	6.70	28.20	-9.80	40.40	54.00	-13.60	AV	Horizontal
4960.44	59.58	44.20	9.04	31.60	-3.56	56.02	74.00	-17.98	PK	Vertical
4960.44	49.54	44.20	9.04	31.60	-3.56	45.98	54.00	-8.02	AV	Vertical
4960.59	59.11	44.20	9.04	31.60	-3.56	55.55	74.00	-18.45	PK	Horizontal
4960.59	50.34	44.20	9.04	31.60	-3.56	46.78	54.00	-7.22	AV	Horizontal
5359.61	48.69	44.20	9.86	32.00	-2.34	46.34	74.00	-27.66	PK	Vertical
5359.61	40.10	44.20	9.86	32.00	-2.34	37.75	54.00	-16.25	AV	Vertical
5359.77	47.98	44.20	9.86	32.00	-2.34	45.63	74.00	-28.37	PK	Horizontal
5359.77	38.68	44.20	9.86	32.00	-2.34	36.33	54.00	-17.67	AV	Horizontal
7439.78	53.87	43.50	11.40	35.50	3.40	57.27	74.00	-16.73	PK	Vertical
7439.78	44.47	43.50	11.40	35.50	3.40	47.87	54.00	-6.13	AV	Vertical
7439.72	53.74	43.50	11.40	35.50	3.40	57.14	74.00	-16.86	PK	Horizontal
7439.72	44.49	43.50	11.40	35.50	3.40	47.89	54.00	-6.11	AV	Horizontal

Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

4.6 TEST RESULTS (Restricted Bands Requirements)

1M PHY

Frequency	Meter	Amplifier	Loss	Antenna	Orrected	Emission	Limits	Margin	Detector	Comment
(MHz)	(dB μ V)	(dB)	(dB)	(dB/m)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	Type	
2390.00	68.22	43.80	4.91	25.90	-12.99	55.23	74.00	-18.77	PK	Vertical
2390.00	54.08	43.80	4.91	25.90	-12.99	41.09	54.00	-12.91	AV	Vertical
2390.00	68.53	43.80	4.91	25.90	-12.99	55.54	74.00	-18.46	PK	Horizontal
2390.00	53.39	43.80	4.91	25.90	-12.99	40.40	54.00	-13.60	AV	Horizontal
2483.50	69.40	43.80	5.12	25.90	-12.78	56.62	74.00	-17.38	PK	Vertical
2483.50	53.49	43.80	5.12	25.90	-12.78	40.71	54.00	-13.29	AV	Vertical
2483.50	69.14	43.80	5.12	25.90	-12.78	56.36	74.00	-17.64	PK	Horizontal
2483.50	52.20	43.80	5.12	25.90	-12.78	39.42	54.00	-14.58	AV	Horizontal

2M PHY

Frequency	Meter	Amplifier	Loss	Antenna	Orrected	Emission	Limits	Margin	Detector	Comment
(MHz)	(dB μ V)	(dB)	(dB)	(dB/m)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	Type	
2390.00	68.60	43.80	4.91	25.90	-12.99	55.61	74.00	-18.39	PK	Vertical
2390.00	53.11	43.80	4.91	25.90	-12.99	40.12	54.00	-13.88	AV	Vertical
2390.00	69.68	43.80	4.91	25.90	-12.99	56.69	74.00	-17.31	PK	Horizontal
2390.00	52.85	43.80	4.91	25.90	-12.99	39.86	54.00	-14.14	AV	Horizontal
2483.50	70.03	43.80	5.12	25.90	-12.78	57.25	74.00	-16.75	PK	Vertical
2483.50	52.09	43.80	5.12	25.90	-12.78	39.31	54.00	-14.69	AV	Vertical
2483.50	69.34	43.80	5.12	25.90	-12.78	56.56	74.00	-17.44	PK	Horizontal
2483.50	53.35	43.80	5.12	25.90	-12.78	40.57	54.00	-13.43	AV	Horizontal

5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 – 2407 MHz Upper Band Edge: 2475 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

5.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	$\leq 8 \text{ dBm}$ ($\text{RBW} \geq 3 \text{ kHz}$)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to: $100 \text{ kHz} \geq \text{RBW} \geq 3 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

6.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

7. BANDWIDTH TEST

7.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, $VBW \geq 3RBW$, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

7.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW \geq DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW \geq DTS bandwidth.
- Set VBW \geq [3 \times RBW].
- Set span \geq [3 \times RBW].
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the DTS bandwidth:

DTS bandwidth:

- Set the RBW = 1 MHz.
- Set the VBW \geq [3 \times RBW].
- Set the span \geq [1.5 \times DTS bandwidth].
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

8.5 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

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

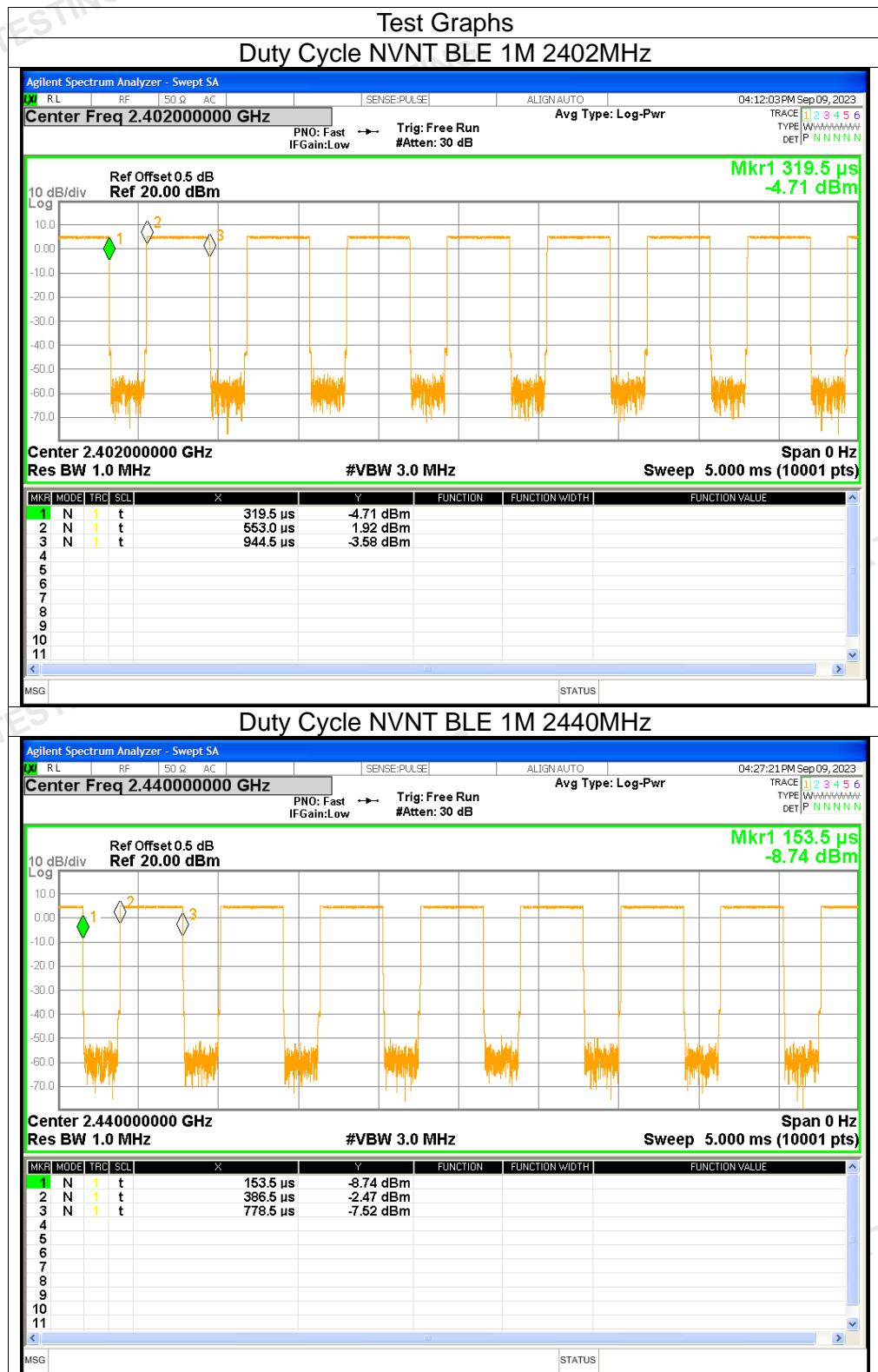
9.2 EUT ANTENNA

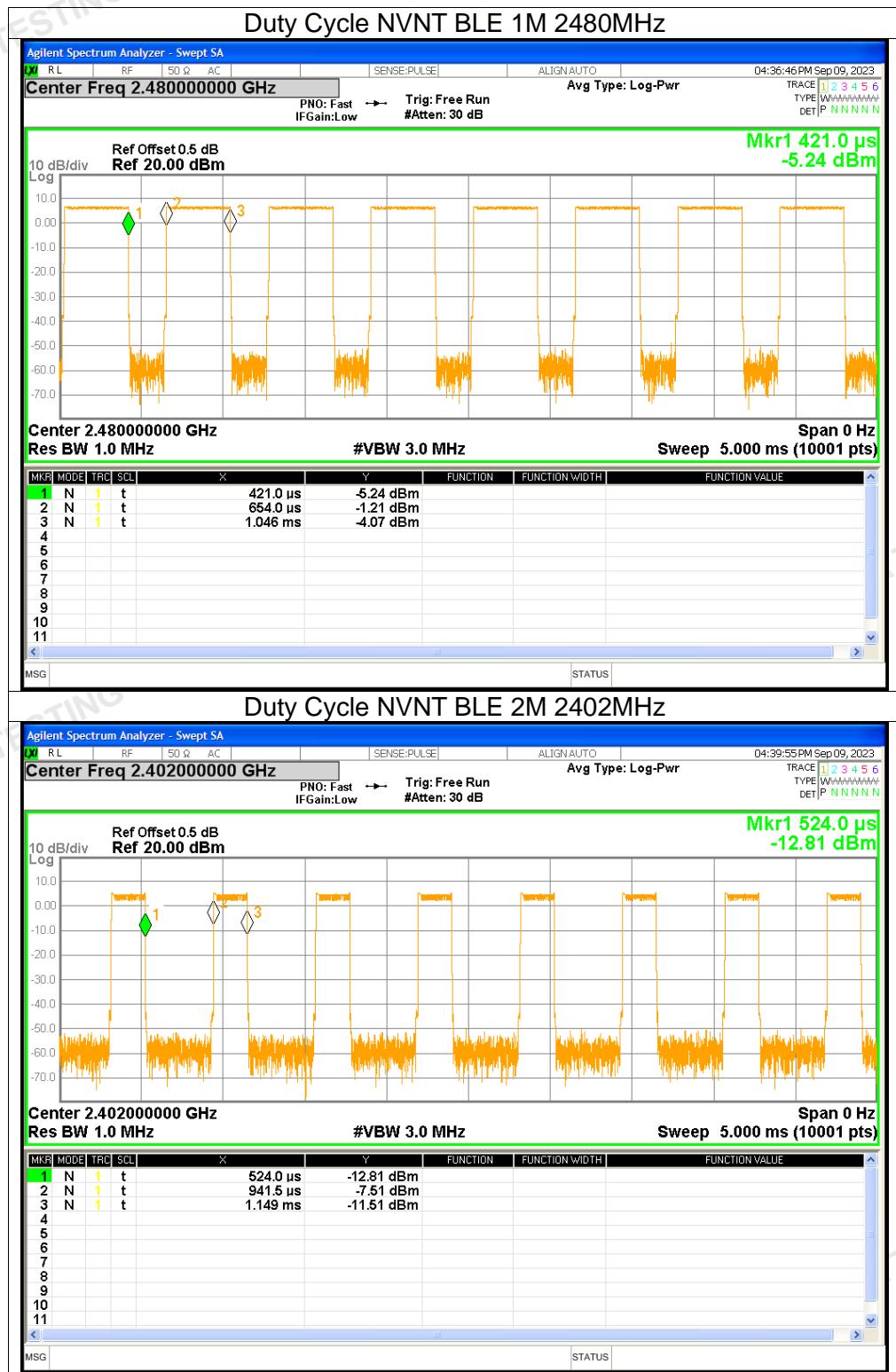
The EUT antenna is FPC Antenna. It comply with the standard requirement.

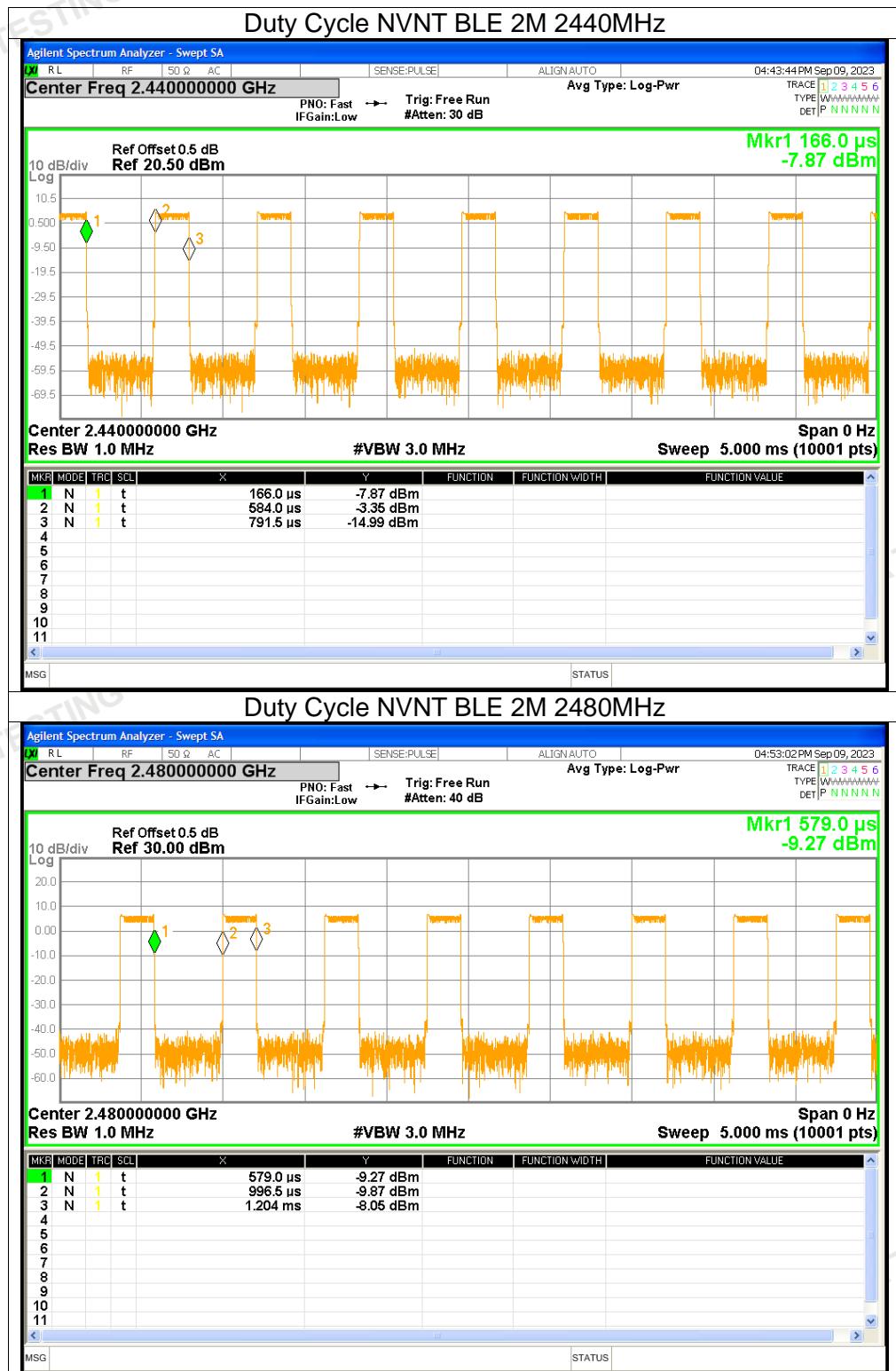
APPENDIX 1-TEST DATA

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	62.64	2.03	2.55
NVNT	BLE 1M	2440	62.72	2.03	2.55
NVNT	BLE 1M	2480	62.72	2.03	2.55
NVNT	BLE 2M	2402	33.2	4.79	4.82
NVNT	BLE 2M	2440	33.17	4.79	4.82
NVNT	BLE 2M	2480	33.2	4.79	4.82

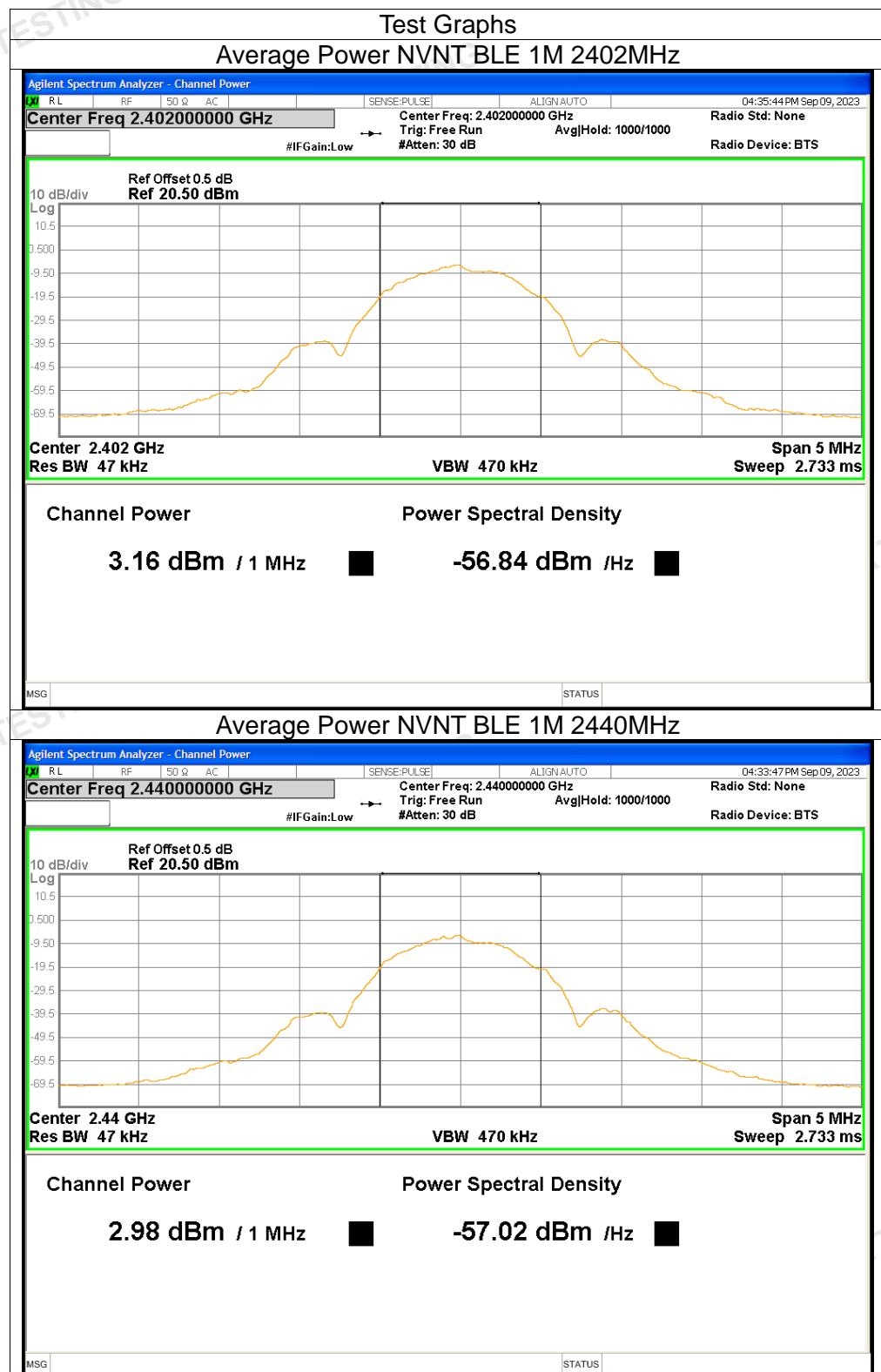


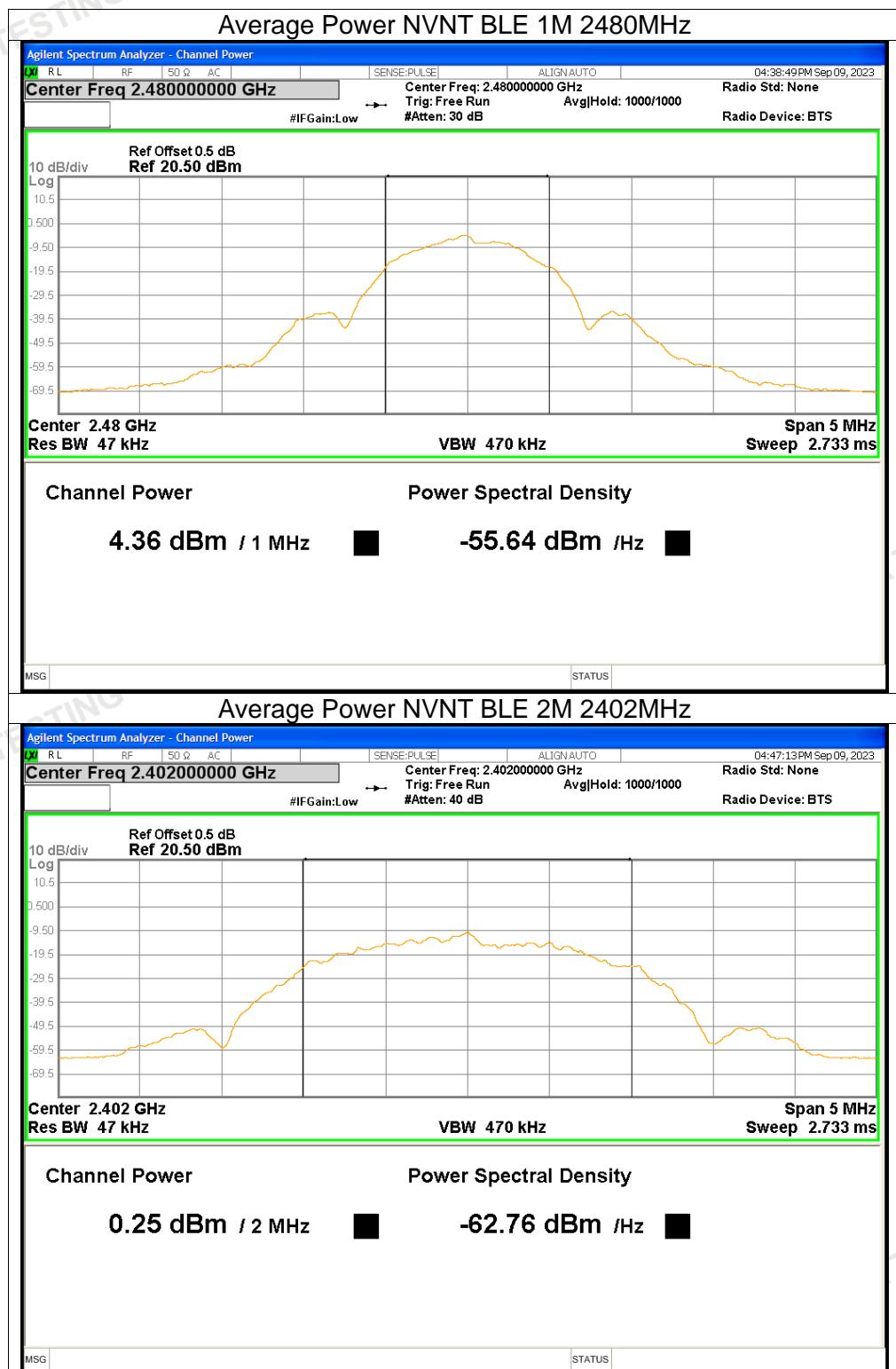


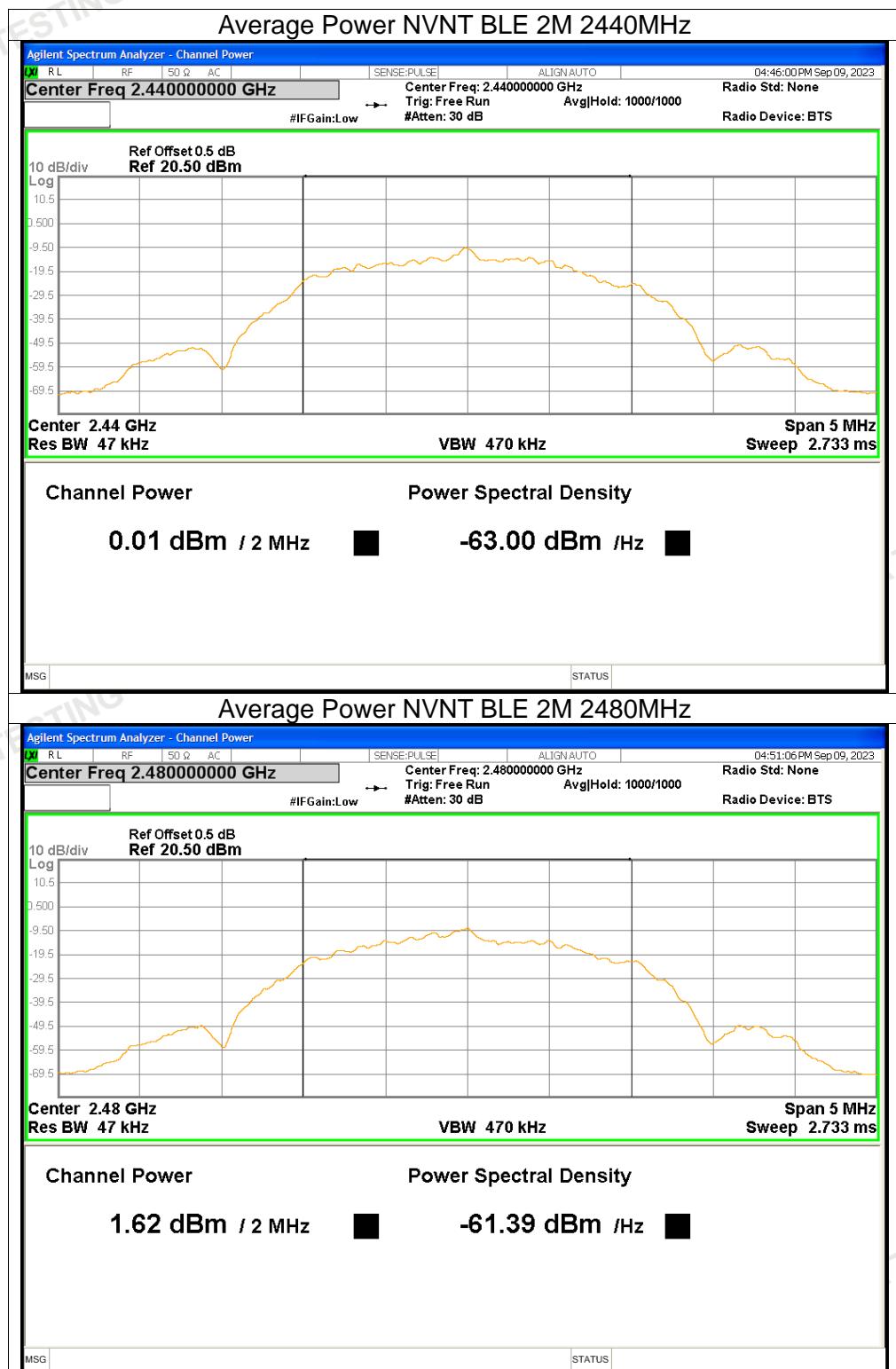


2. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	3.16	2.03	5.19	<=30	Pass
NVNT	BLE 1M	2440	2.98	2.03	5.01	<=30	Pass
NVNT	BLE 1M	2480	4.36	2.03	6.39	<=30	Pass
NVNT	BLE 2M	2402	0.25	4.79	5.04	<=30	Pass
NVNT	BLE 2M	2440	0.01	4.79	4.8	<=30	Pass
NVNT	BLE 2M	2480	1.62	4.8	6.42	<=30	Pass

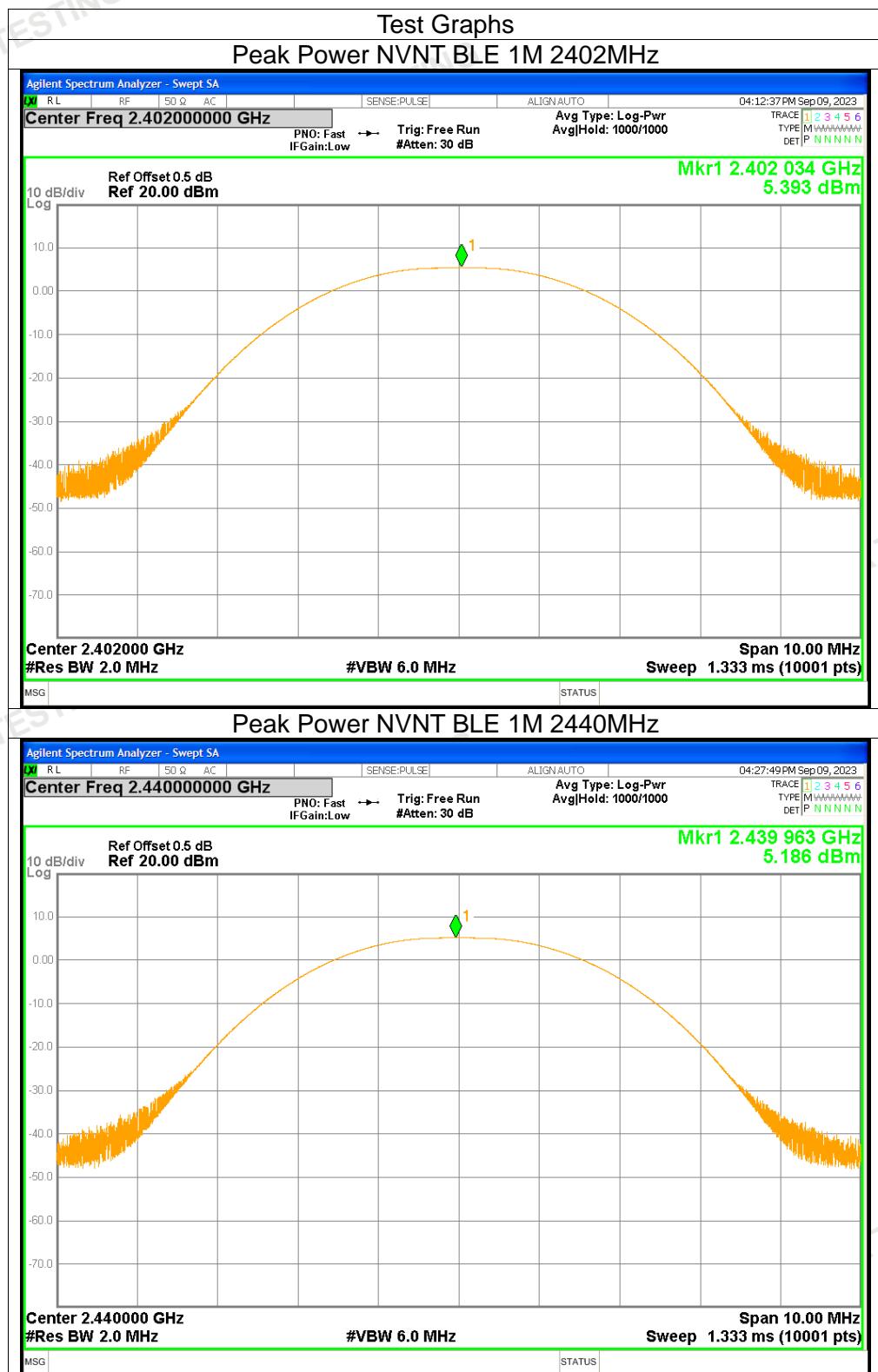


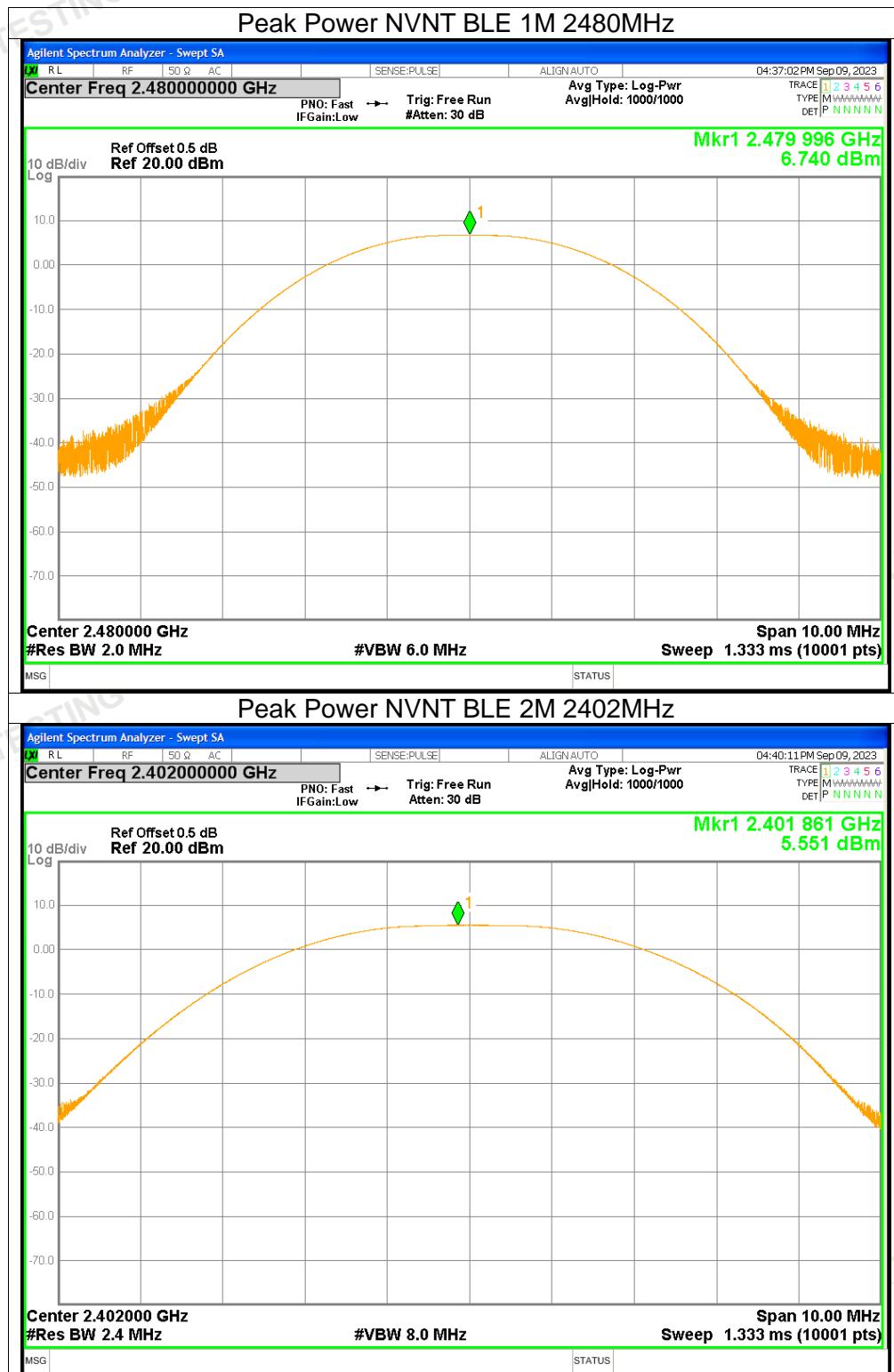


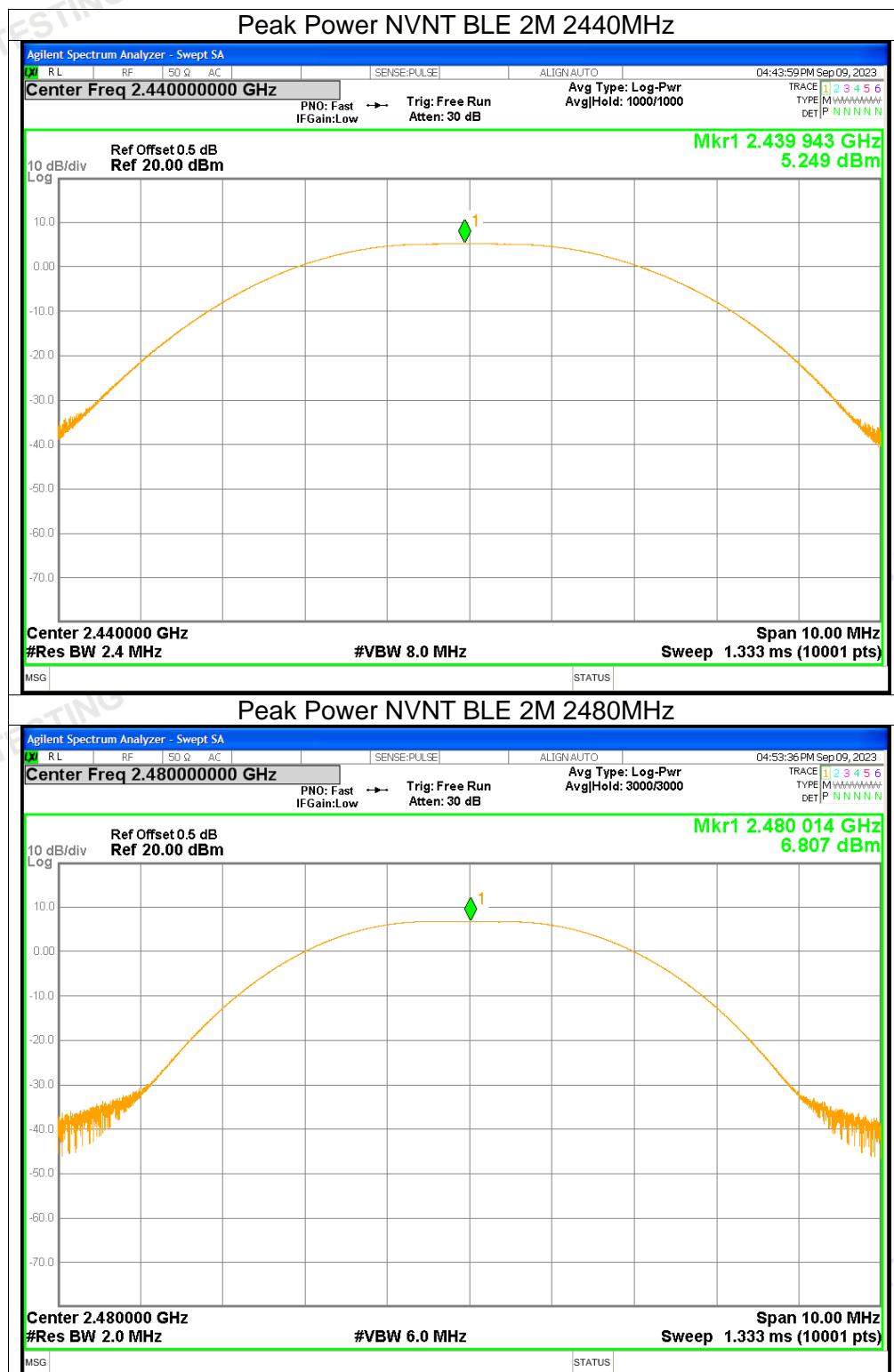


3. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	5.39	<=30	Pass
NVNT	BLE 1M	2440	5.19	<=30	Pass
NVNT	BLE 1M	2480	6.74	<=30	Pass
NVNT	BLE 2M	2402	5.55	<=30	Pass
NVNT	BLE 2M	2440	5.25	<=30	Pass
NVNT	BLE 2M	2480	6.81	<=30	Pass

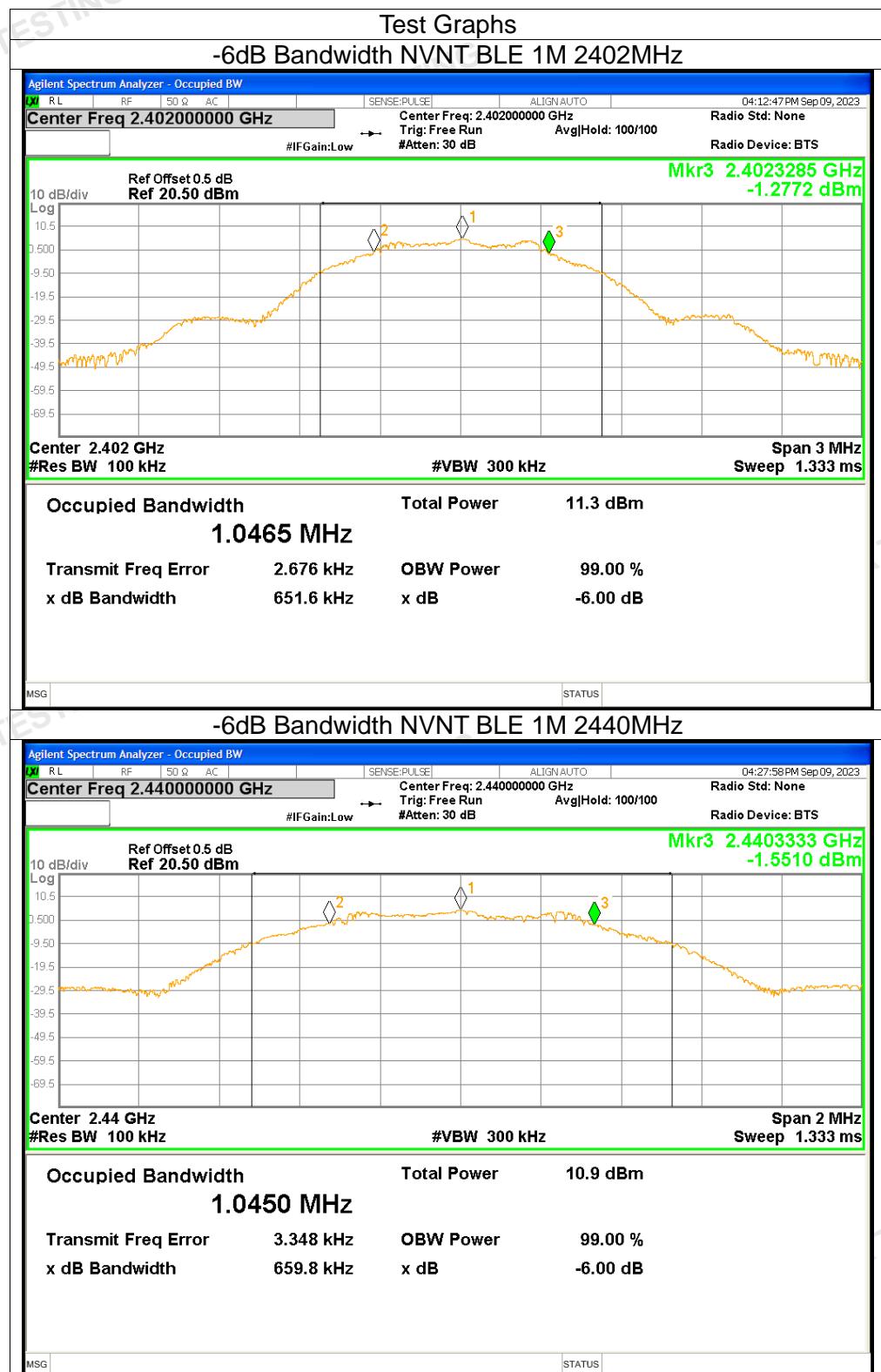


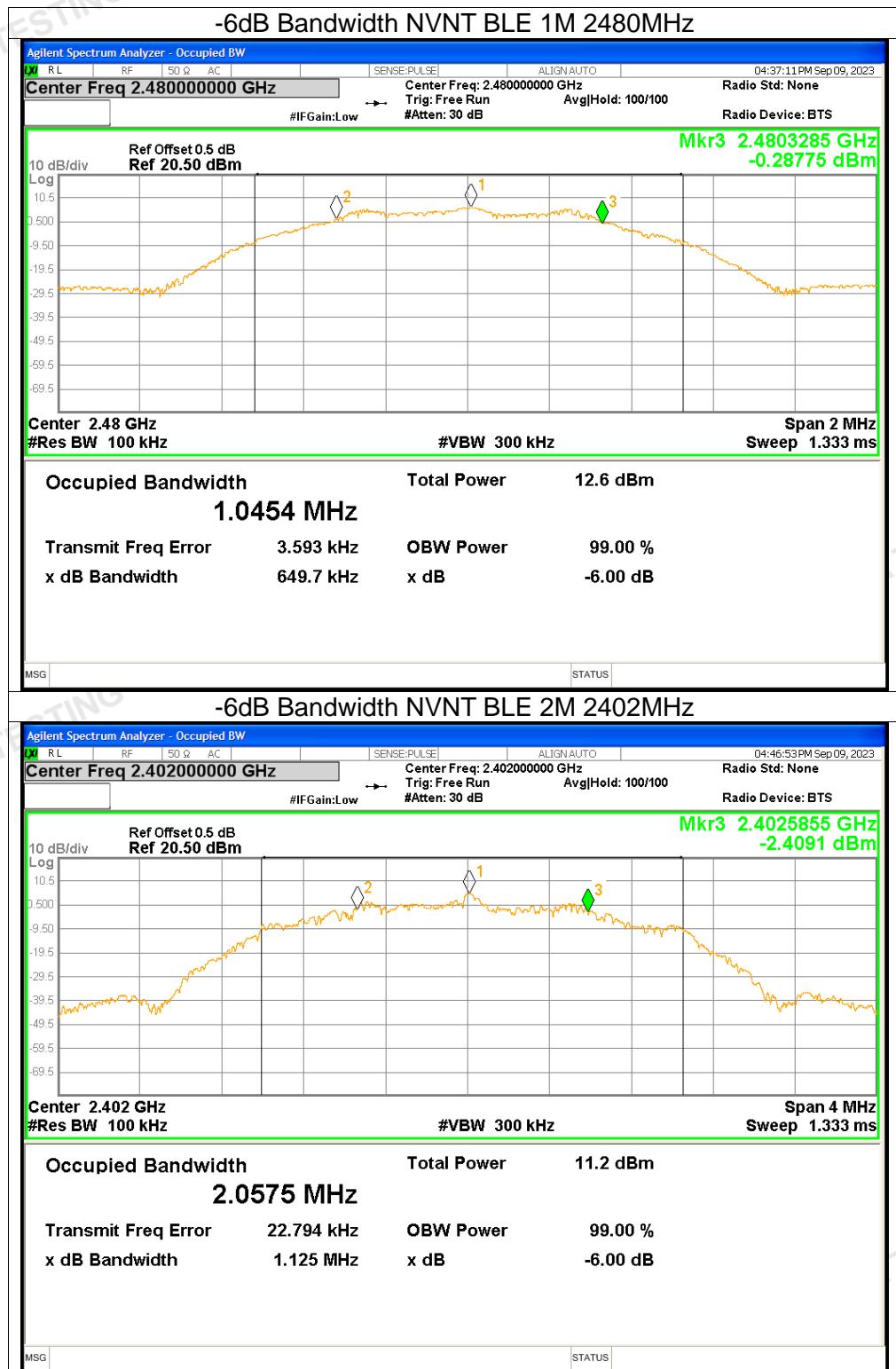


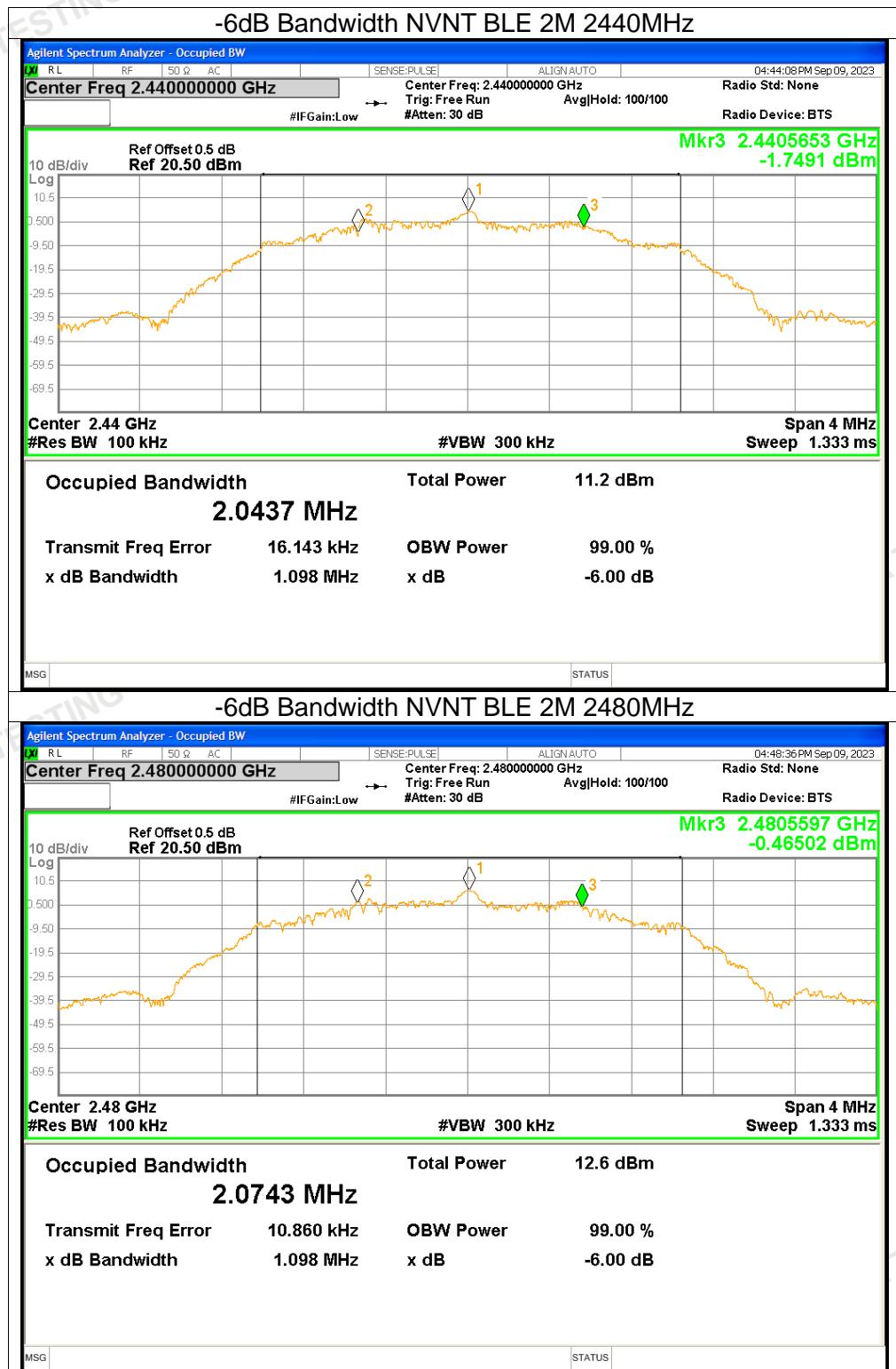


4. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.6516	≥ 0.5	Pass
NVNT	BLE 1M	2440	0.6598	≥ 0.5	Pass
NVNT	BLE 1M	2480	0.6497	≥ 0.5	Pass
NVNT	BLE 2M	2402	1.1253	≥ 0.5	Pass
NVNT	BLE 2M	2440	1.0983	≥ 0.5	Pass
NVNT	BLE 2M	2480	1.0977	≥ 0.5	Pass

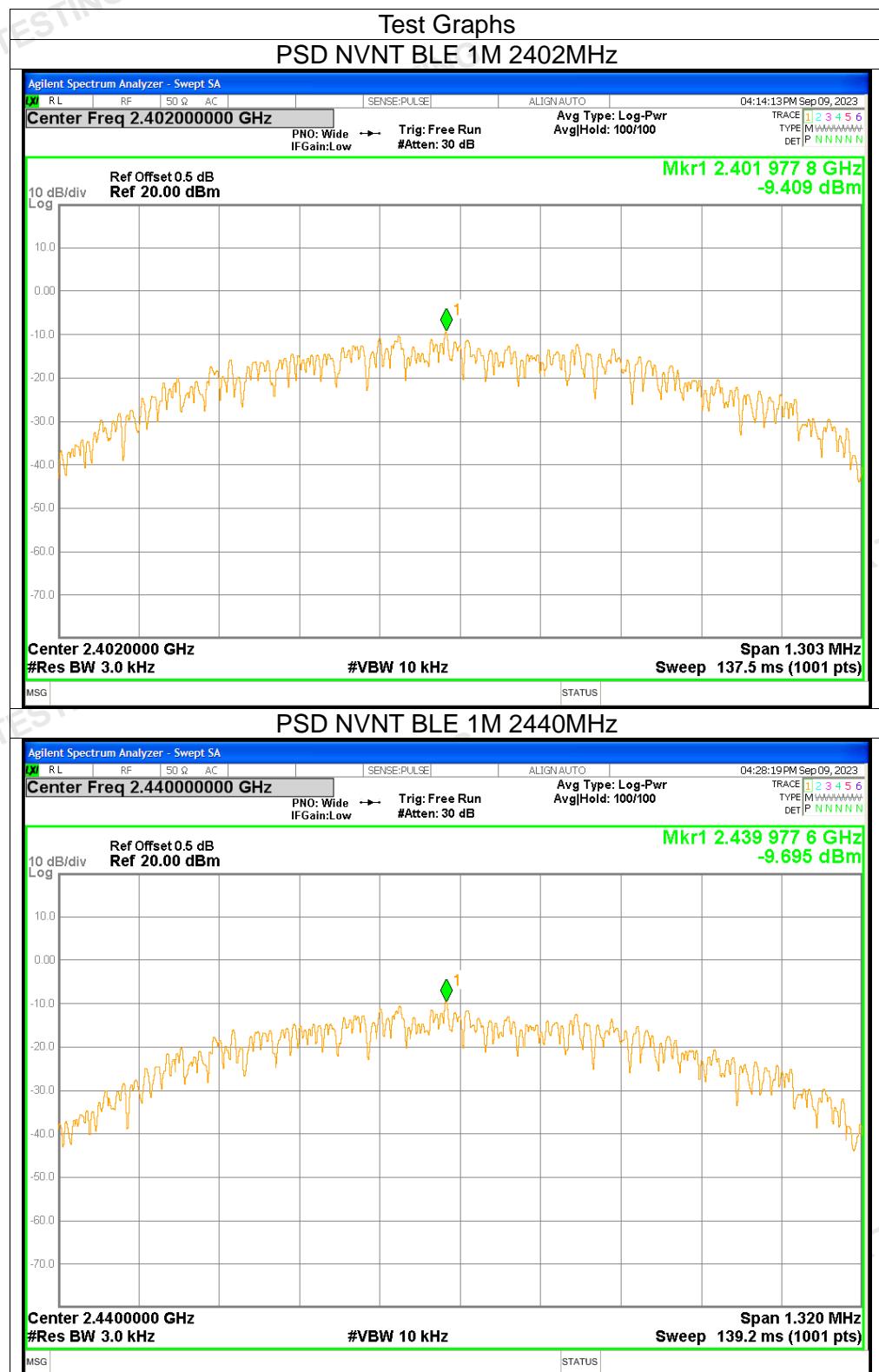


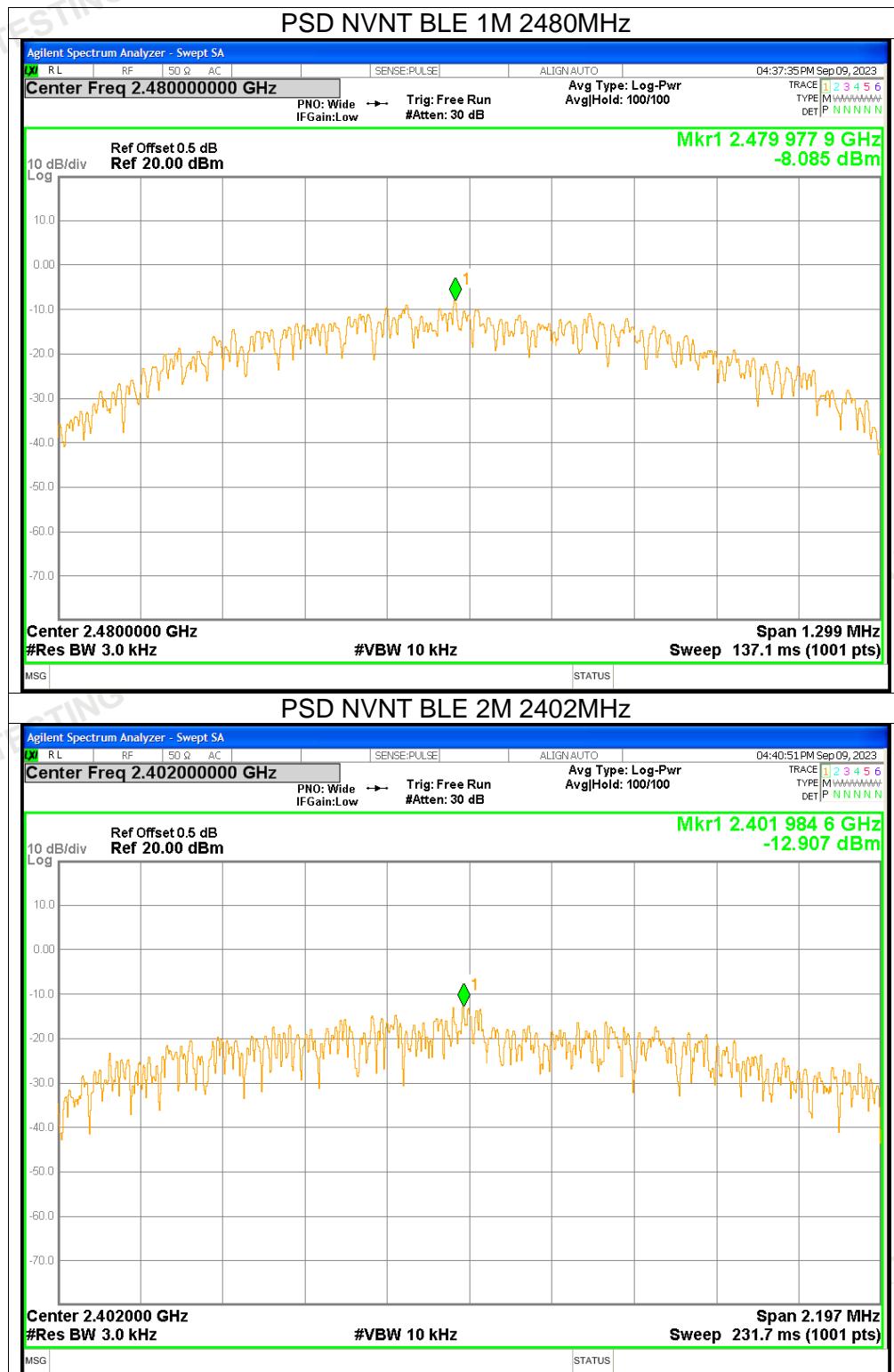


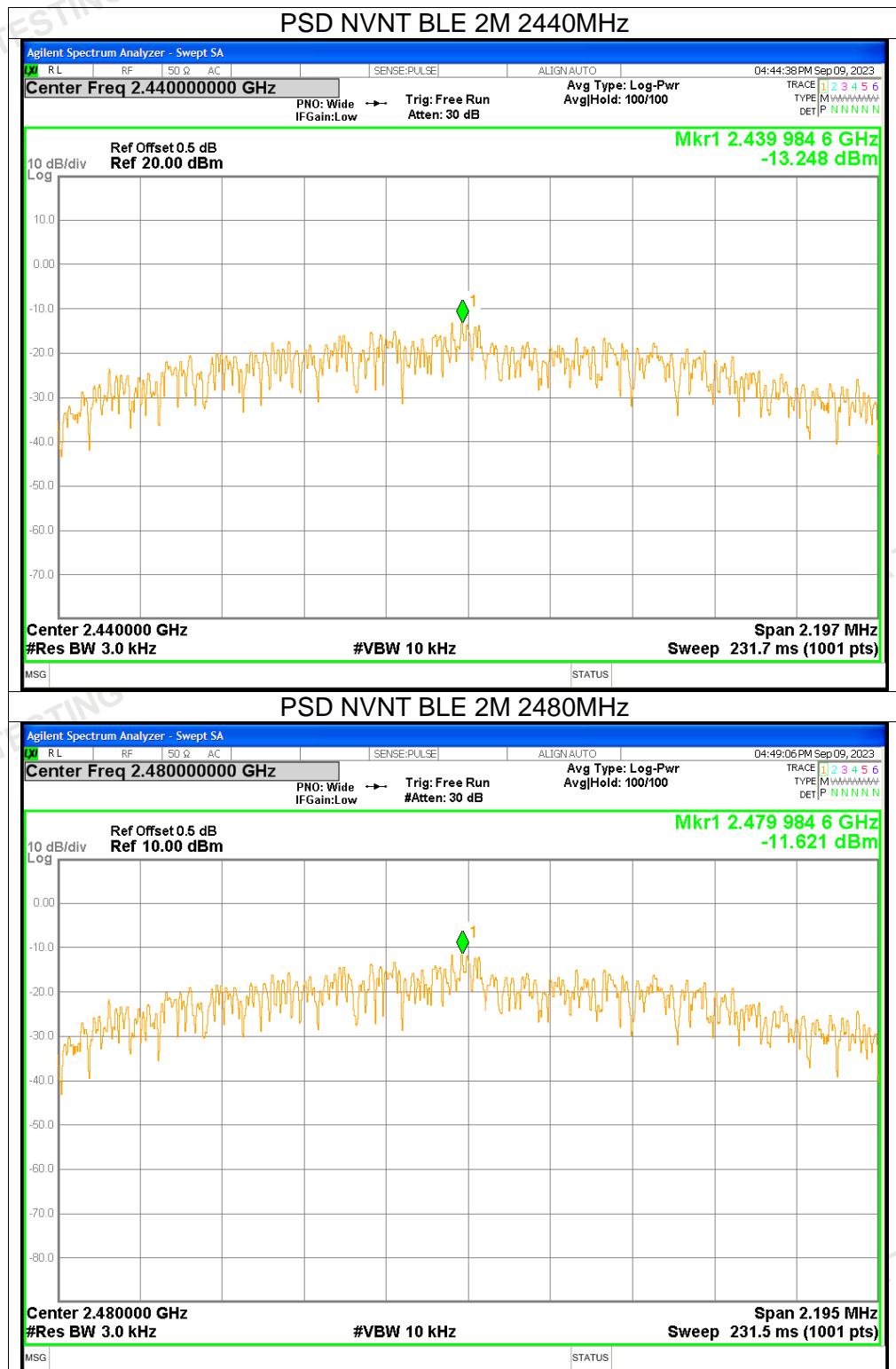


5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-9.41	<=8	Pass
NVNT	BLE 1M	2440	-9.7	<=8	Pass
NVNT	BLE 1M	2480	-8.09	<=8	Pass
NVNT	BLE 2M	2402	-12.91	<=8	Pass
NVNT	BLE 2M	2440	-13.25	<=8	Pass
NVNT	BLE 2M	2480	-11.62	<=8	Pass

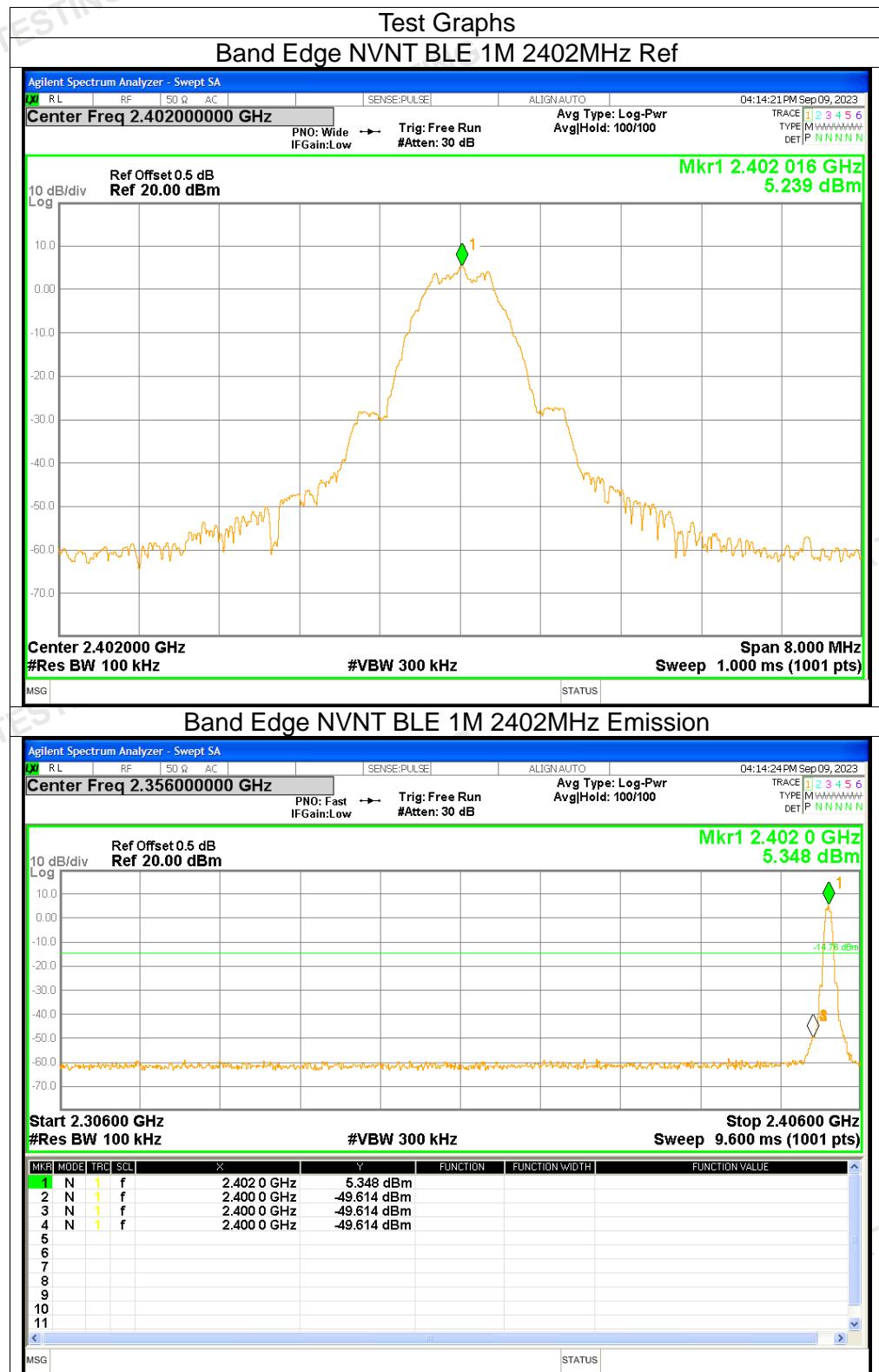


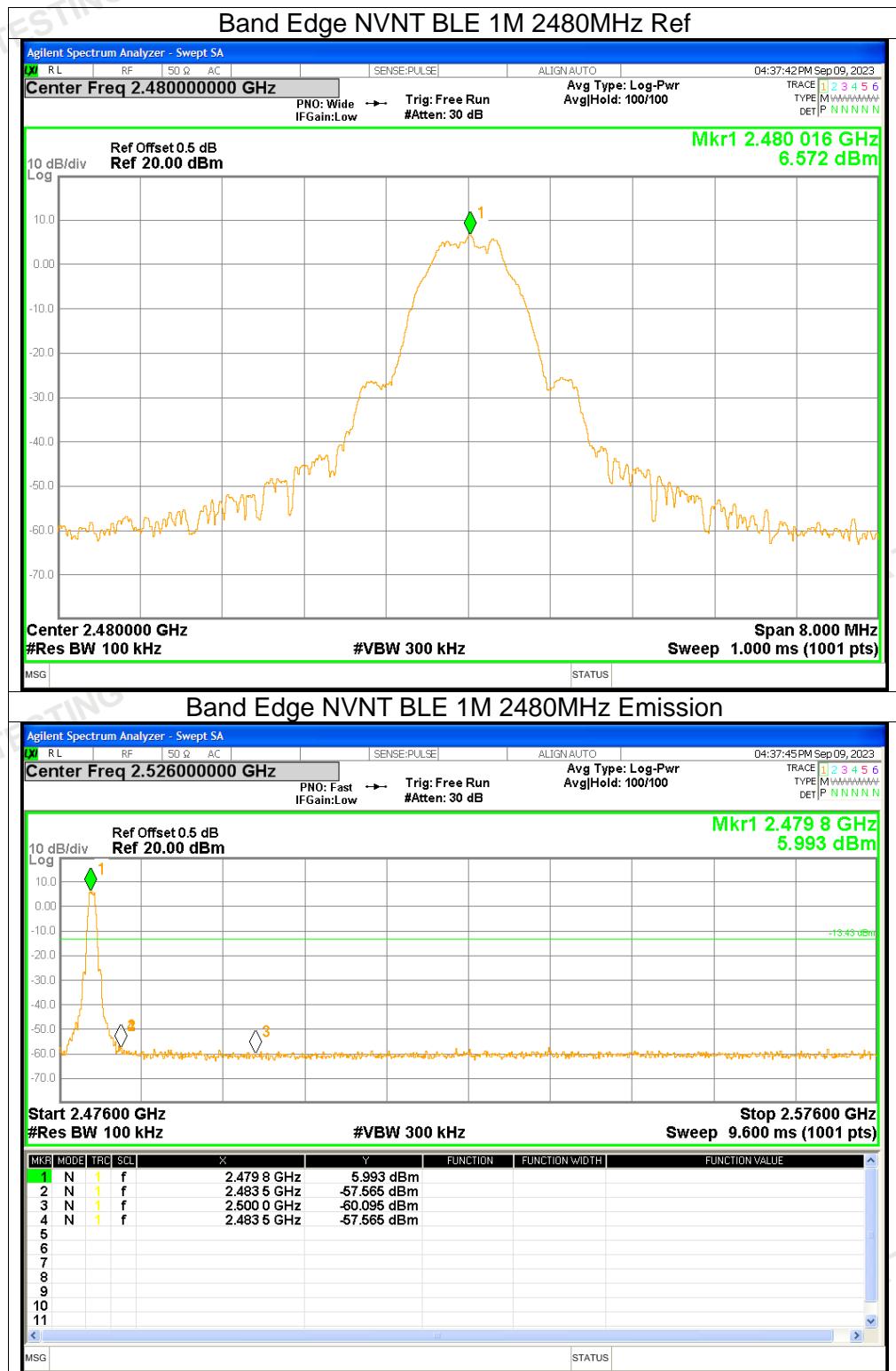


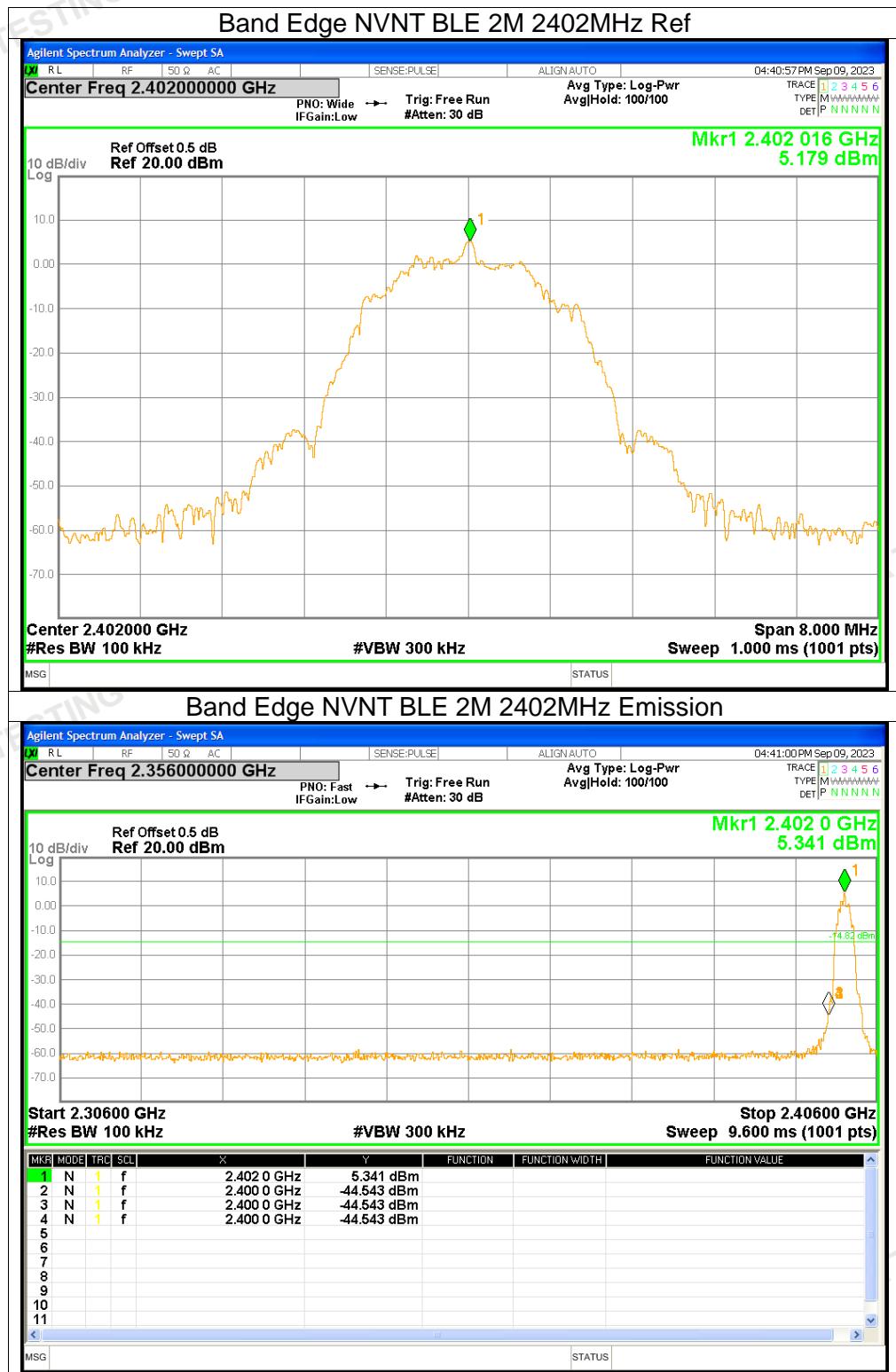


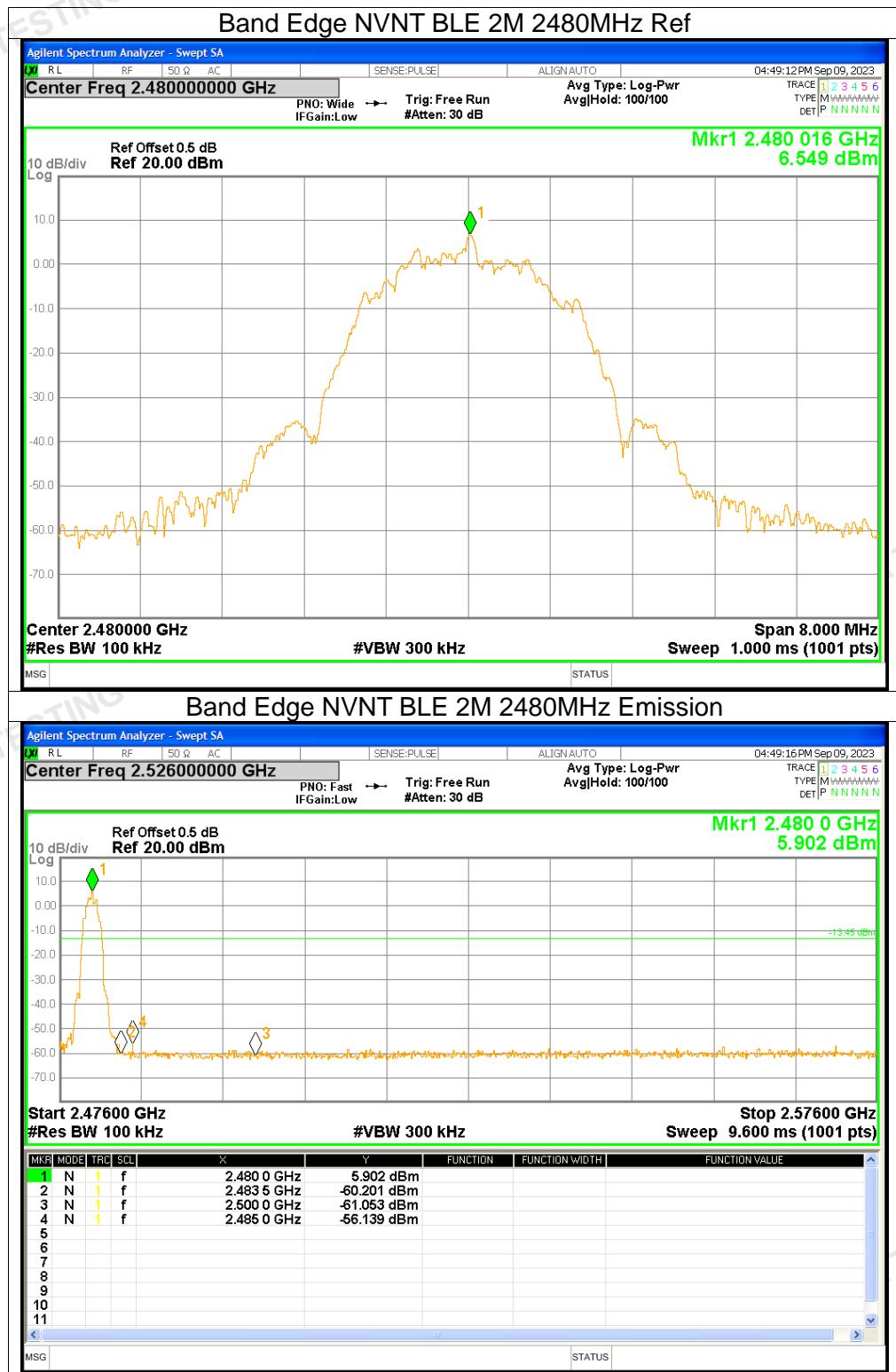
6. Band Edge

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-54.85	<=-20	Pass
NVNT	BLE 1M	2480	-64.13	<=-20	Pass
NVNT	BLE 2M	2402	-49.72	<=-20	Pass
NVNT	BLE 2M	2480	-62.68	<=-20	Pass



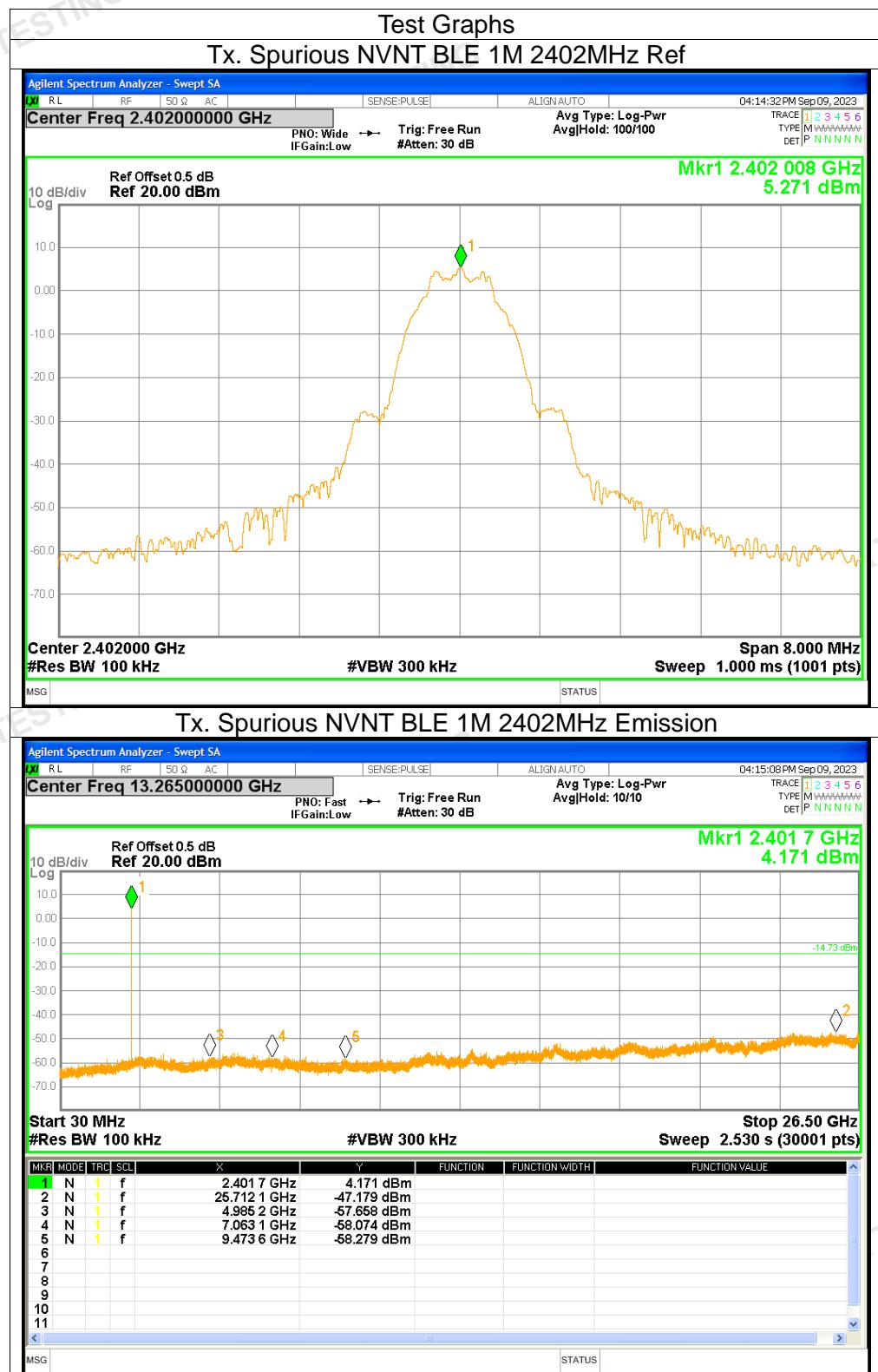


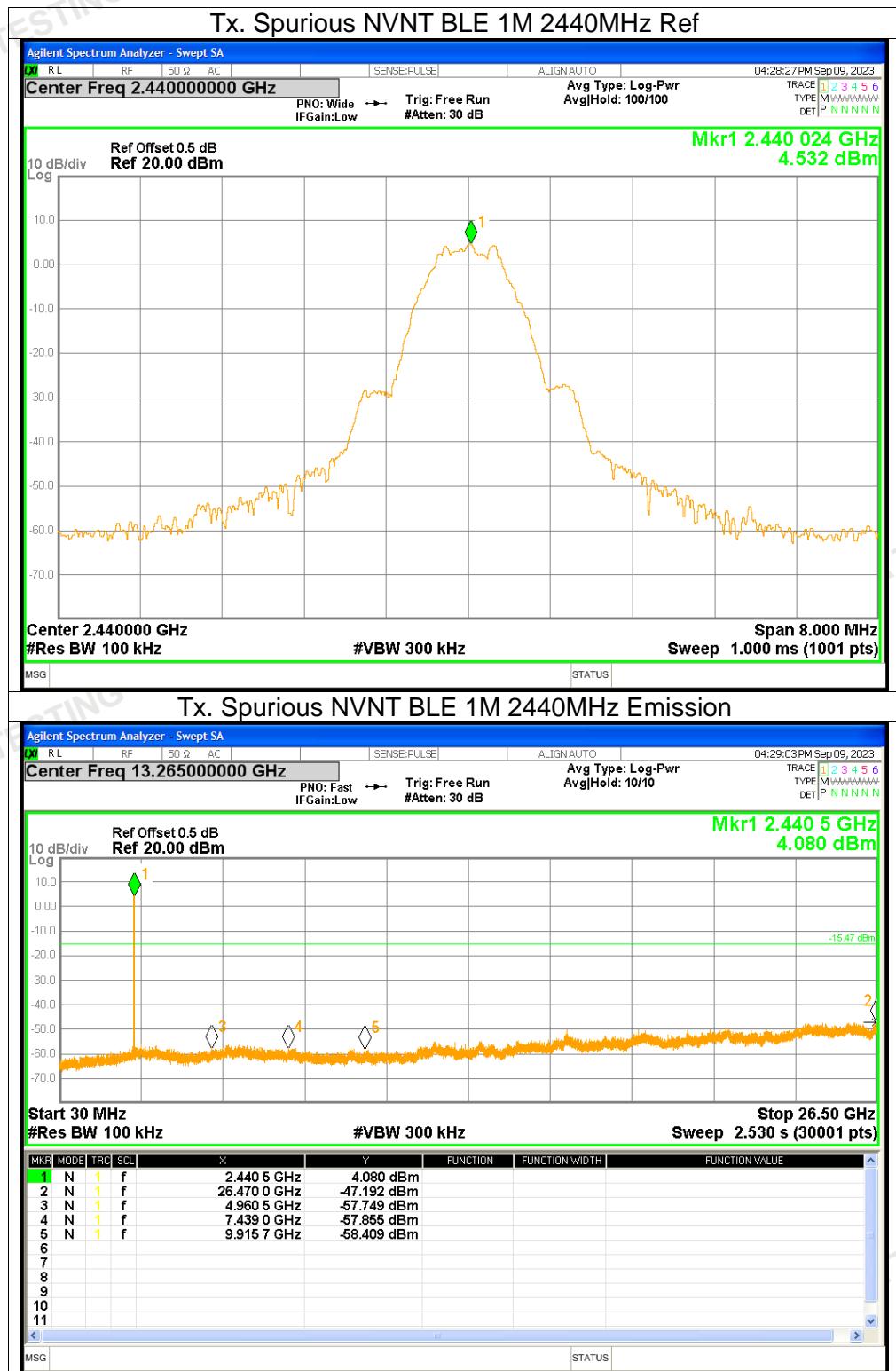


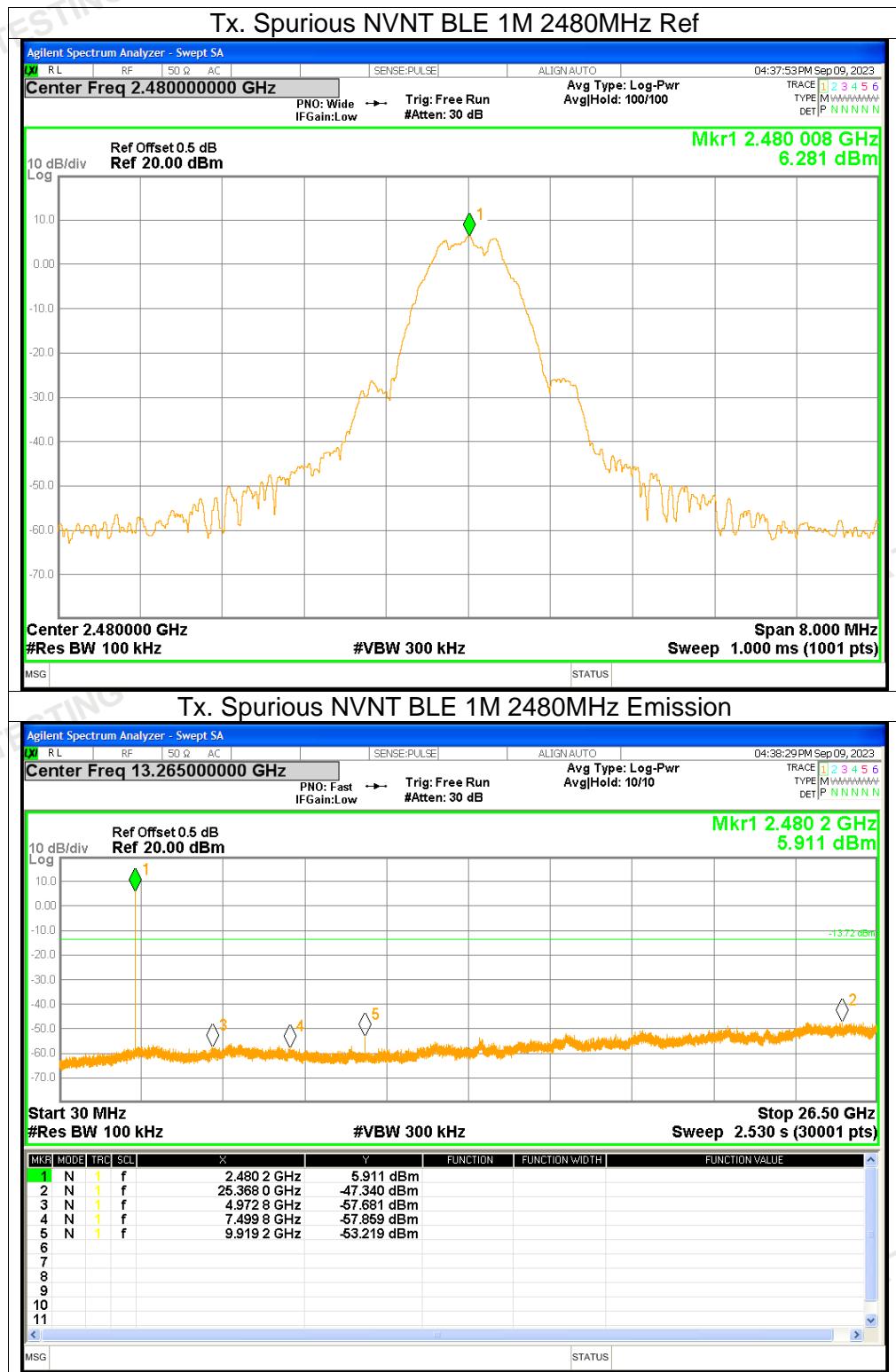


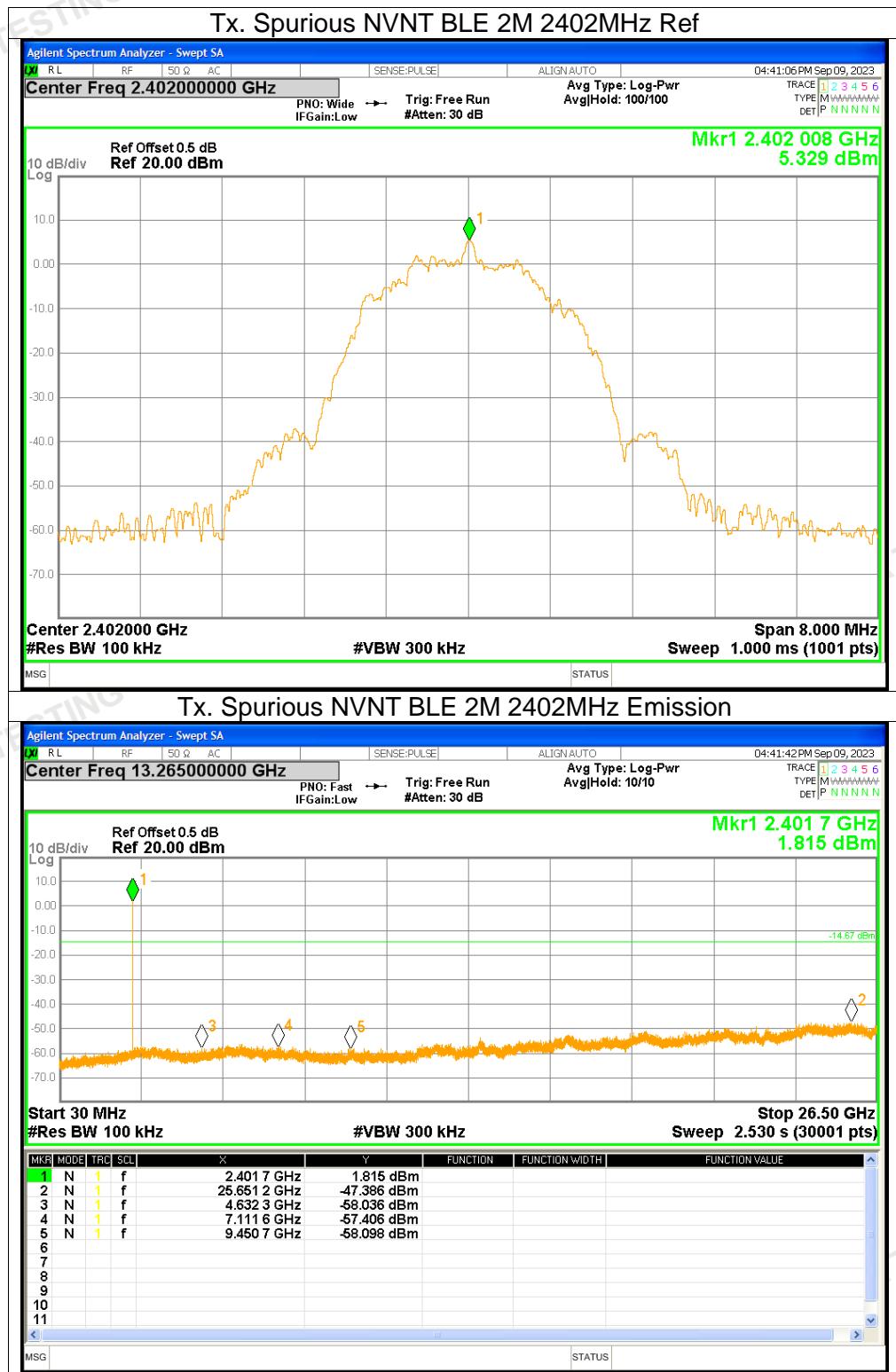
7. Conducted RF Spurious Emission

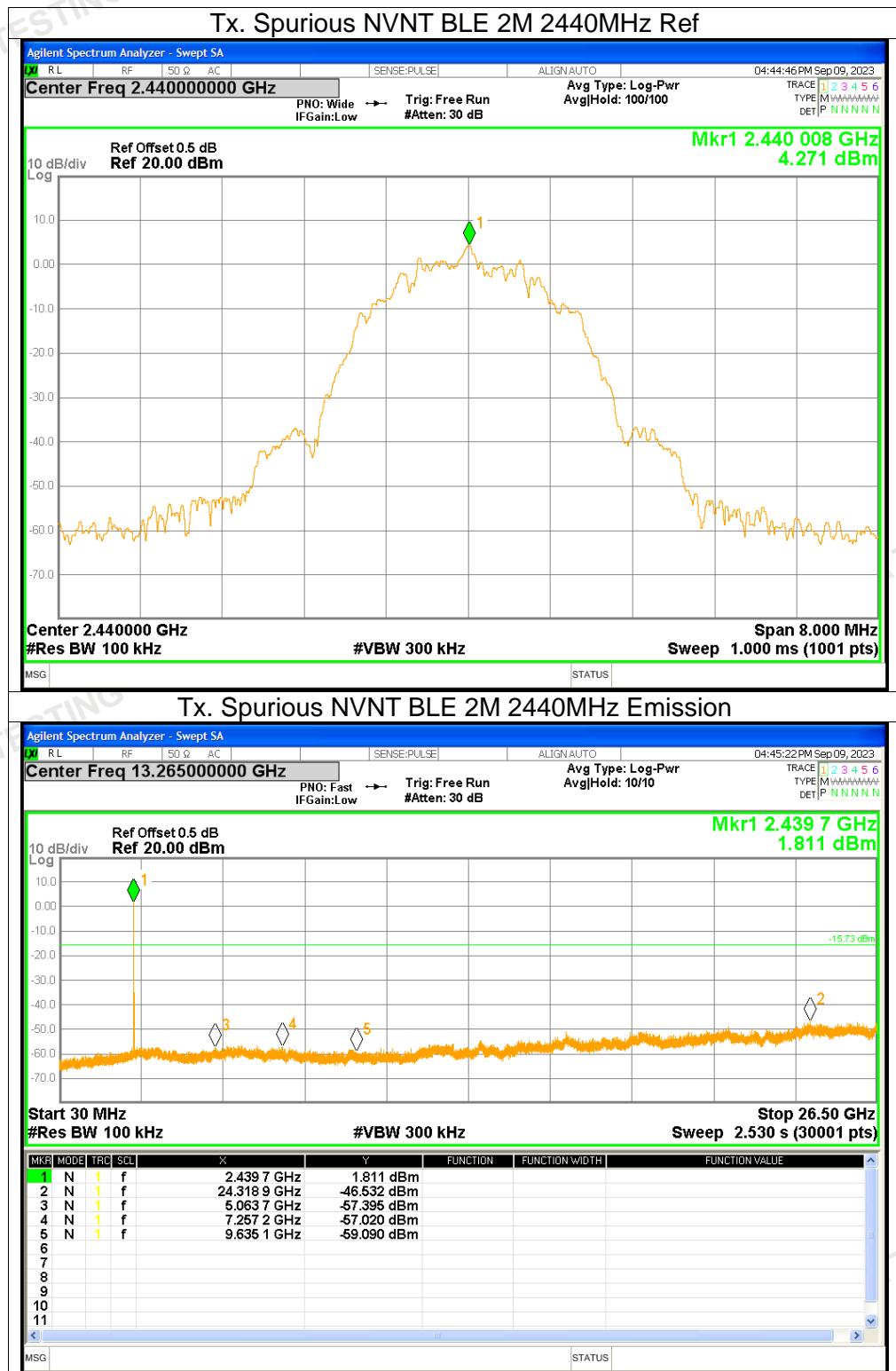
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-52.44	<=-20	Pass
NVNT	BLE 1M	2440	-51.72	<=-20	Pass
NVNT	BLE 1M	2480	-53.61	<=-20	Pass
NVNT	BLE 2M	2402	-52.71	<=-20	Pass
NVNT	BLE 2M	2440	-50.8	<=-20	Pass
NVNT	BLE 2M	2480	-51.61	<=-20	Pass

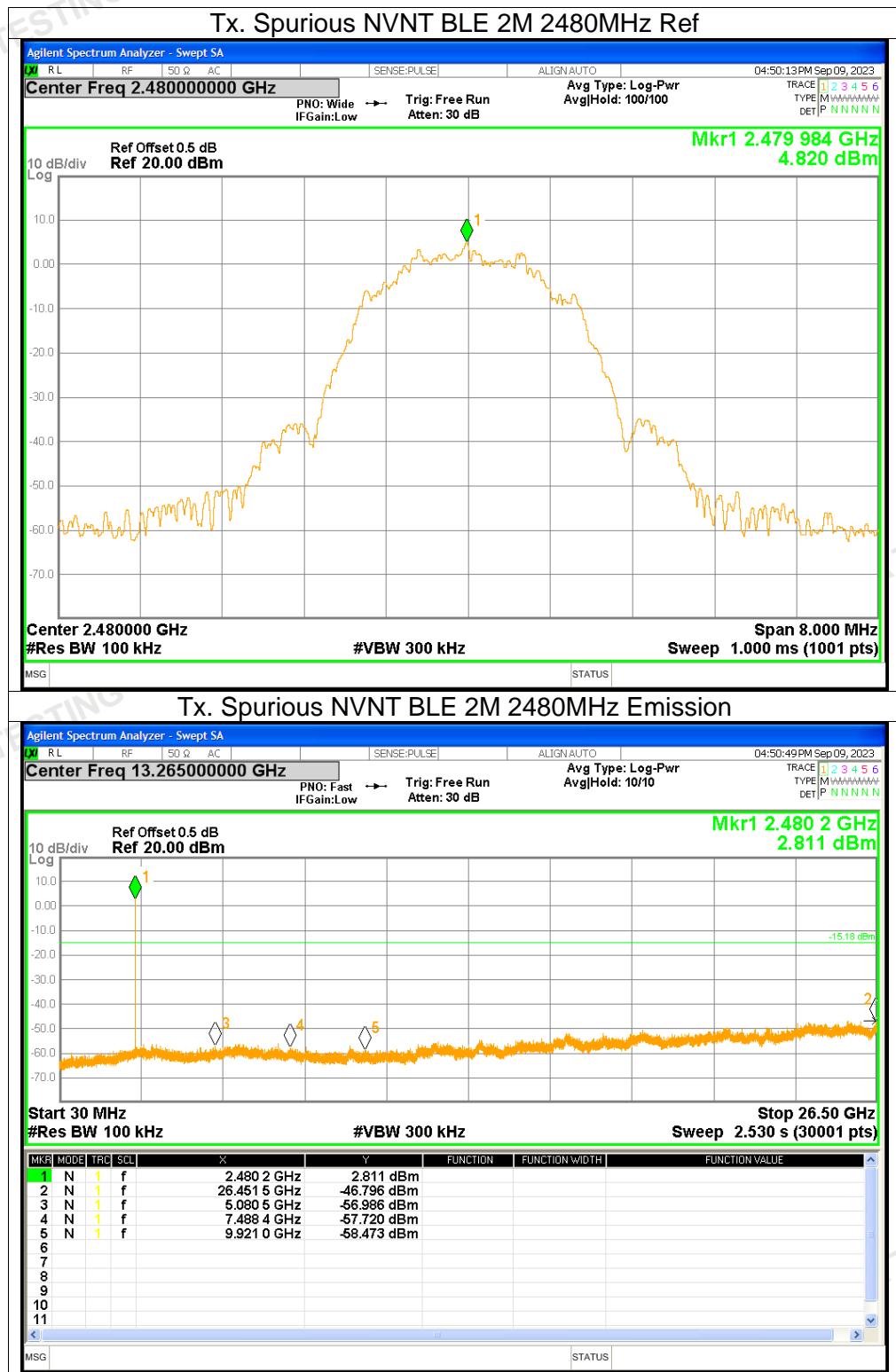












APPENDIX 2- EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

***** END OF THE REPORT *****