Radio Test Report

Report No.:STS2603008W03

Issued for

Wuxi Sunning Technology Co., Ltd.

No.52, Zone C, Huigu Pioneer Park, Huishan Economic Development Zone, Wuxi City, Jiangsu, China

Product Name:	LTE Module
Brand Name:	agenew
Model Name:	H1503BQ
Series Model(s):	N/A
FCC ID:	2BVA8-H1503BQ
Test Standards:	FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

TEST REPORT

Applicant's Name .....: Wuxi Sunning Technology Co., Ltd.

Address .....: No.52, Zone C, Huigu Pioneer Park, Huishan Economic Development Zone, Wuxi City, Jiangsu, China

Manufacturer's Name.....: Wuxi Sunning Technology Co., Ltd.

Address .....: No.52, Zone C, Huigu Pioneer Park, Huishan Economic Development Zone, Wuxi City, Jiangsu, China

Product Description

Product Name.....: LTE Module

Brand Name.....: agenew

Model Name .....: H1503BQ

Series Model(s) .....: N/A

Standards .....: FCC Part 15.247

Test Procedure.....: ANSI C63.10-2020+Cor 1-2023

This device described above has been tested by STS, 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.
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test .....:

Date of receipt of test item.....: 02 Mar. 2026

Date (s) of performance of tests .....: 02 Mar. 2026 ~ 23 Mar. 2026

Date of Issue .....: 23 Mar. 2026

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

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Skylar. Li

(Skylar Li)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	23 Mar. 2026	STS2603008W03	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	PASS	--
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 Band Edge Emission	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 C63.10-2020+Cor 1-2023.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.751dB
2	Unwanted Emissions, conducted	±2.888dB
3	All emissions, radiated 9K-30MHz	±2.48dB
4	All emissions, radiated 30M-1GHz	±2.52dB
5	All emissions, radiated 1G-18GHz	±3.48dB
6	All emissions, radiated>18GHz	±4.18dB
7	Conducted Emission (9KHz-150KHz)	±2.48dB
8	Conducted Emission (150KHz-30MHz)	±2.52dB
9	Occupied Channel Bandwidth	±3.6%
10	Power Spectral Density, conducted	±1.214dB
11	Duty Cycle	±3.2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>LTE Module</td></tr>
<tr><td>Brand Name</td><td>agenew</td></tr>
<tr><td>Model Name</td><td>H1503BQ</td></tr>
<tr><td>Series Model(s)</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is a LTE Module
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n 20: 2412~2462 MHz
802.11n40:2422~2452MHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11b(DSSS):CCK,DQPSK,DBPSK
802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM
802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM</td></tr>
<tr><td>Bit Rate of Transmitter:</td><td>802.11b:11/5.5/2/1 Mbps
802.11g:54/48/36/24/18/12/9/6Mbps
802.11n(20MHz):
65/58.5/52/39/26/19.5/13/6.5Mbps
802.11n(40MHz):
135/121.5/108/81/54/40.5/37/13.5Mbps</td></tr>
<tr><td>Number of Channel:</td><td>802.11b/g/n20: 11CH
802.11n 40: 7CH</td></tr>
<tr><td>Antenna Type:</td><td>Spring</td></tr>
<tr><td>Antenna Gain (dBi):</td><td>0.5</td></tr>
</table></td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Power Rating</td><td>Input: 3.5~4.4V</td></tr>
<tr><td>Adapter</td><td>N/A</td></tr>
<tr><td>Battery</td><td>N/A</td></tr>
<tr><td>Hardware version number</td><td>H1503BQ V00</td></tr>
<tr><td>Software version number</td><td>H1503BQ_V1.00</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the Note 1.</td></tr>
</table>

Note:

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

2. The antenna details in this report are based on the manufacturer provided antenna specification documents and apply only to the tested sample identified herein.
   Any discrepancies in the antenna information may affect the accuracy of the test results, and the customer assumes responsibility for any related issues..

3.

Operation Frequency of channel			
802.11b/g/n(20MHz)		Channel List for 802.11n(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, themiddle frequency, and the highest frequency of channel were selected to perform the test, and the selectedchannel see below:
Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

2.2 DESCRIPTION OF THE TEST MODES

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

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH01	1 Mbps
Mode 2	TX IEEE 802.11b CH06	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH01	6 Mbps
Mode 5	TX IEEE 802.11g CH06	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH01	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH06	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH03	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH06	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH09	MCS 0

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaiable 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.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode13: Keeping TX + WLAN Link

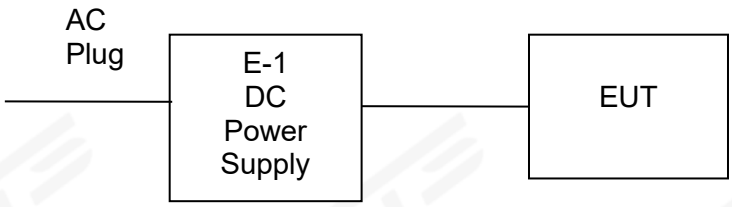
2.3 TEST SOFTWARE AND POWER LEVEL

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

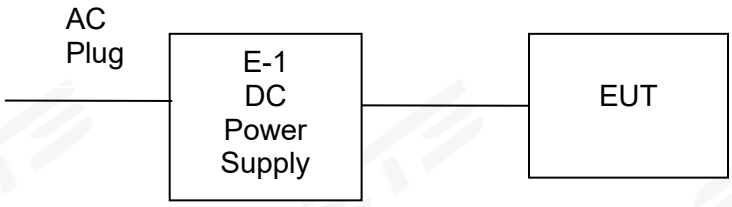
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(2.4G)	2.4G WIFI	802.11b	0.5	11	Engineering mode
		802.11g		11	
		802.11n(HT20)		11	
		802.11n(HT40)		11	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

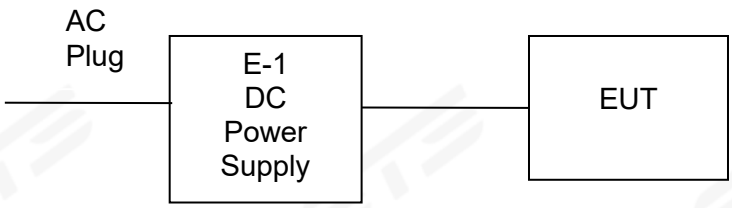
Radiated Spurious Emission Test



AC Conducted Emission Test



RF Conducted 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	DC power supply	HONGSHENGFENG	DPS-305AF	N/A

Item	Equipment	Mfr/Brand	Length	Note
N/A	N/A	N/A	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 FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	**Manufacturer**	**Type No.**	**Serial No.**	**Last Calibration**	**Calibrated Until**
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.03.04	2027.03.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Band 2.4G-2.5G Filter	HX MICROWAVE	HXLBQ-DZA61	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	**Manufacturer**	**Type No.**	**Serial No.**	**Last calibration**	**Calibrated until**
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	**Manufacturer**	**Type No.**	**Serial No.**	**Last calibration**	**Calibrated until**
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Pulse Power Sensor	Anritsu	MA2411B	917389	2025.09.23	2026.09.22
Power Meter	Anritsu	ML2480	1005127	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	MW	MTS 8310_2.0.0.0			

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 Emissionlimit (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.

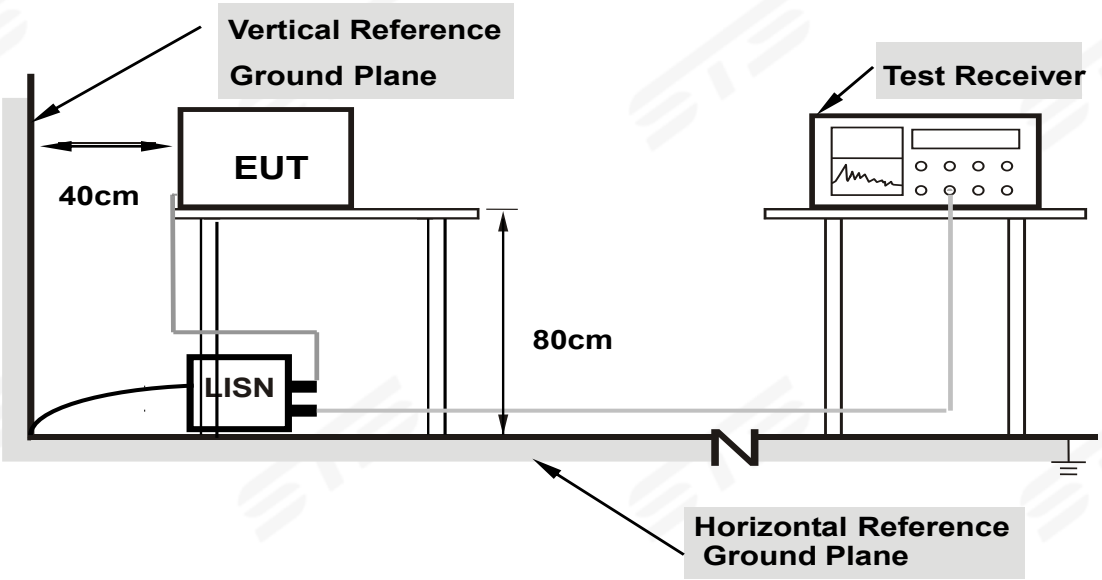
The following table is the setting of the receiver

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

3.1.2 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.

3.1.3 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.

3.1.4EUT OPERATING CONDITIONS

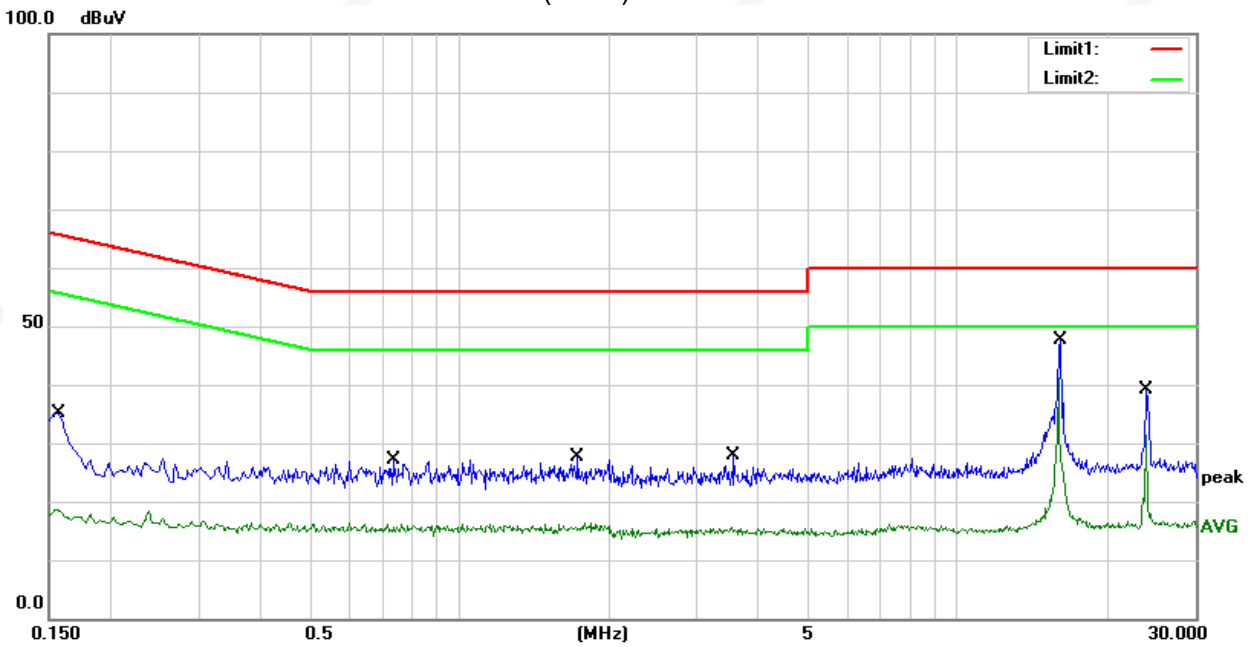
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.5 TEST RESULT

Temperature:	25.1℃	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	15.84	19.37	35.21	65.57	-30.36	QP
2	0.1580	-0.92	19.37	18.45	55.57	-37.12	AVG
3	0.7380	7.70	19.37	27.07	56.00	-28.93	QP
4	0.7380	-3.10	19.37	16.27	46.00	-29.73	AVG
5	1.7260	8.17	19.35	27.52	56.00	-28.48	QP
6	1.7260	-2.99	19.35	16.36	46.00	-29.64	AVG
7	3.5540	8.54	19.41	27.95	56.00	-28.05	QP
8	3.5540	-3.83	19.41	15.58	46.00	-30.42	AVG
9	16.0700	27.88	19.74	47.62	60.00	-12.38	QP
10	16.0700	21.41	19.74	41.15	50.00	-8.85	AVG
11	23.9300	19.40	19.70	39.10	60.00	-20.90	QP
12	23.9300	11.75	19.70	31.45	50.00	-18.55	AVG

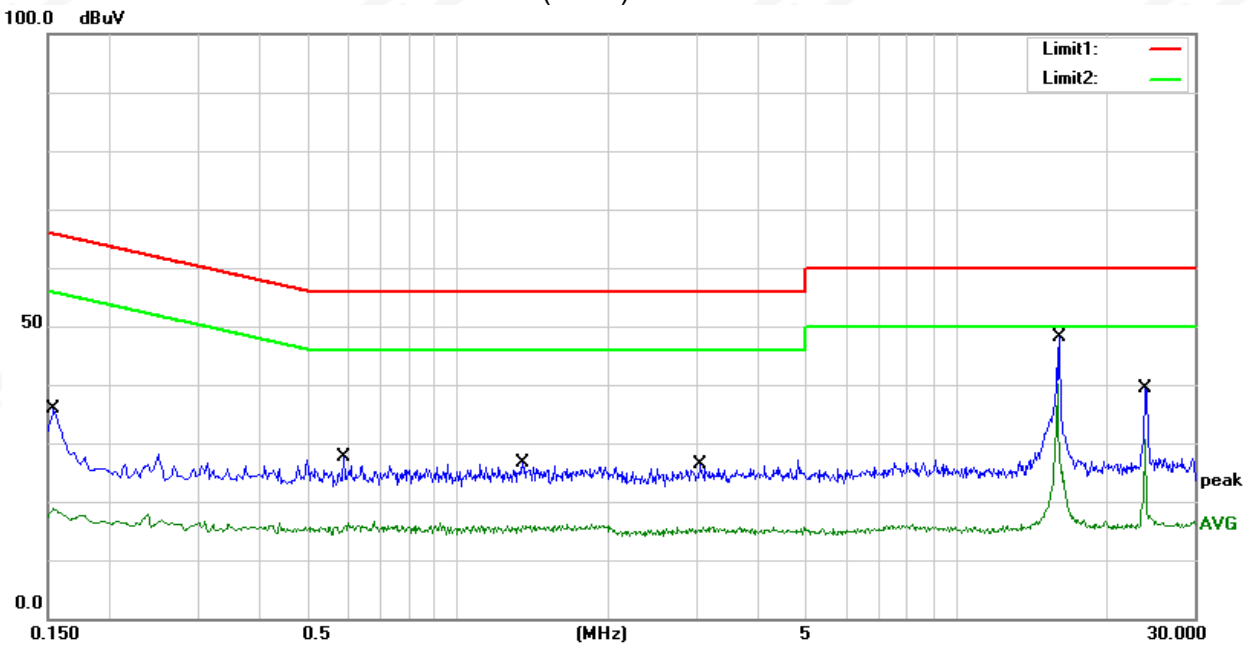
Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



Temperature:	25.1℃	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	16.03	19.42	35.45	66.00	-30.55	QP
2	0.1500	-1.98	19.42	17.44	56.00	-38.56	AVG
3	0.9380	7.97	19.39	27.36	56.00	-28.64	QP
4	0.9380	-3.32	19.39	16.07	46.00	-29.93	AVG
5	1.7260	7.44	19.38	26.82	56.00	-29.18	QP
6	1.7260	-3.23	19.38	16.15	46.00	-29.85	AVG
7	3.0060	7.21	19.46	26.67	56.00	-29.33	QP
8	3.0060	-3.49	19.46	15.97	46.00	-30.03	AVG
9	16.0740	28.54	19.87	48.41	60.00	-11.59	QP
10	16.0740	21.36	19.87	41.23	50.00	-8.77	AVG
11	24.1340	19.78	19.76	39.54	60.00	-20.46	QP
12	24.1340	11.46	19.76	31.22	50.00	-18.78	AVG

Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



3.2 RADIATED EMISSION MEASUREMENT

3.2.1RADIATED 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 C63.10-2020+Cor 1-2023 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 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 (1000MHz-25GHz)

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 hamonic(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 2430 MHz Upper Band Edge: 2445 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

3.2.2 TEST PROCEDURE

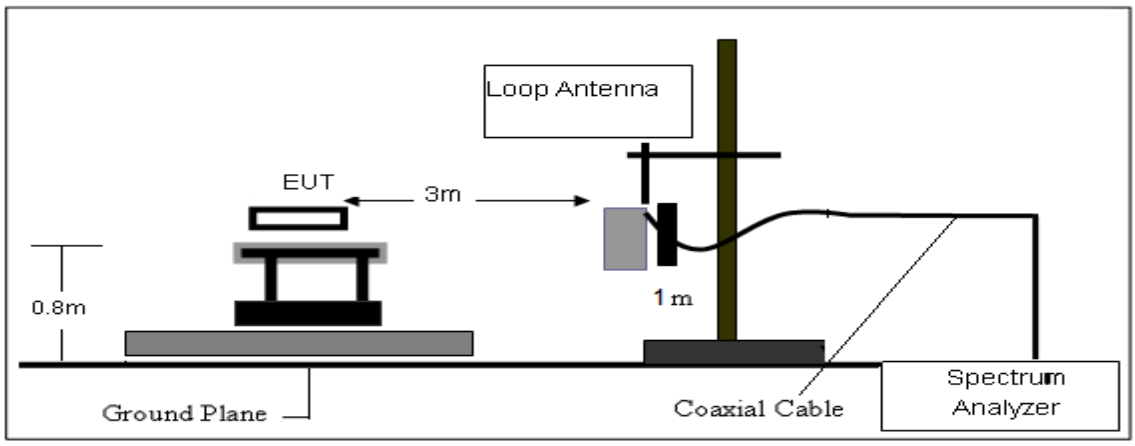
a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position 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:

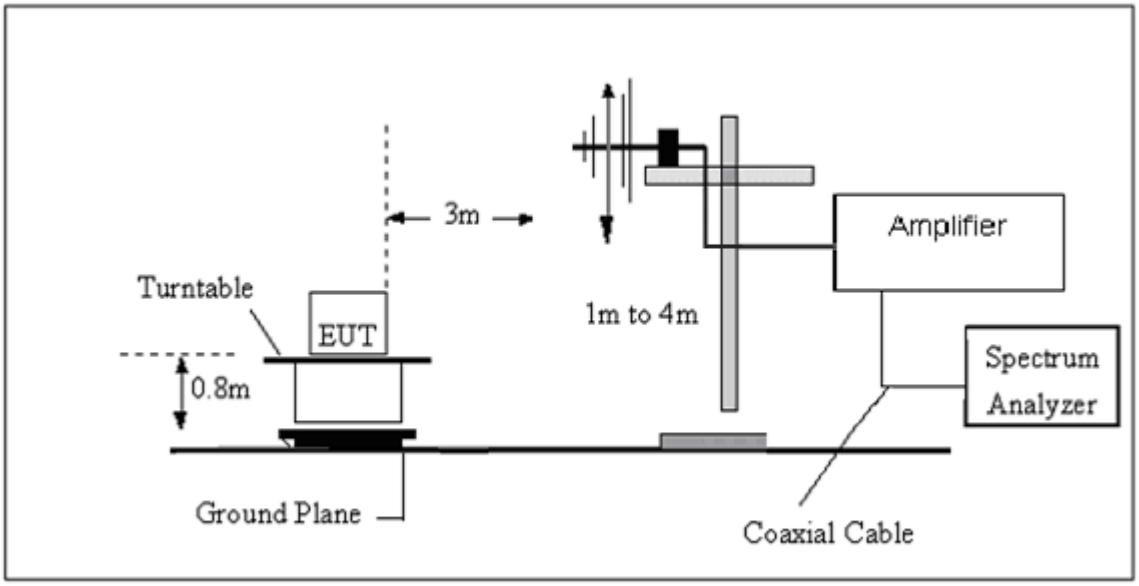
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

3.2.3 TEST SETUP

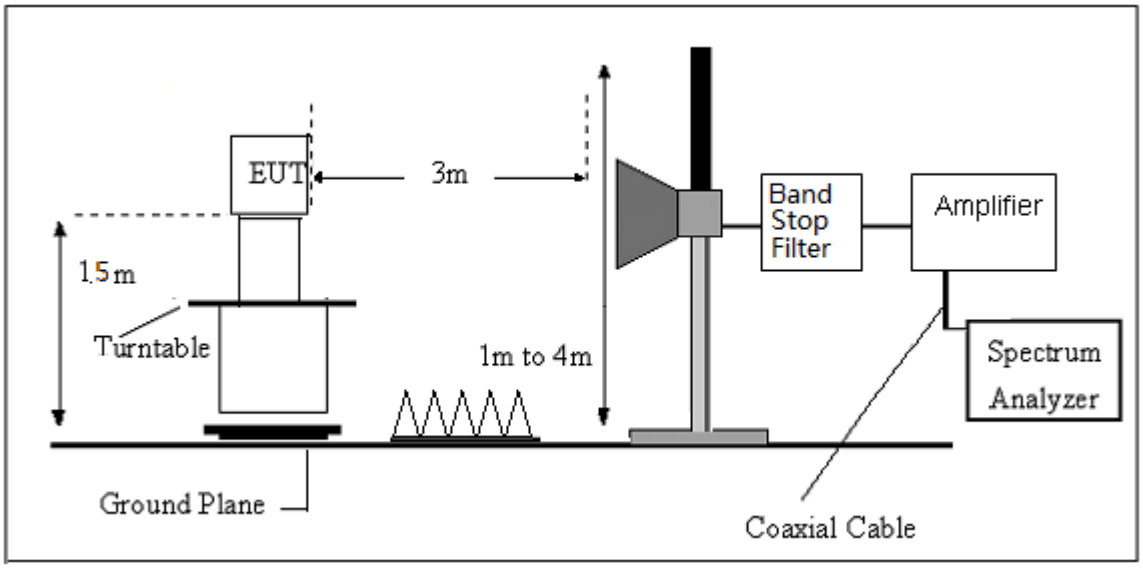
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting theAmplifier 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	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	23.4℃	Relative Humidtity:	60%
Test Voltage:	DC 3.8V	Polarization:	--
Test Mode:	TX Mode		

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

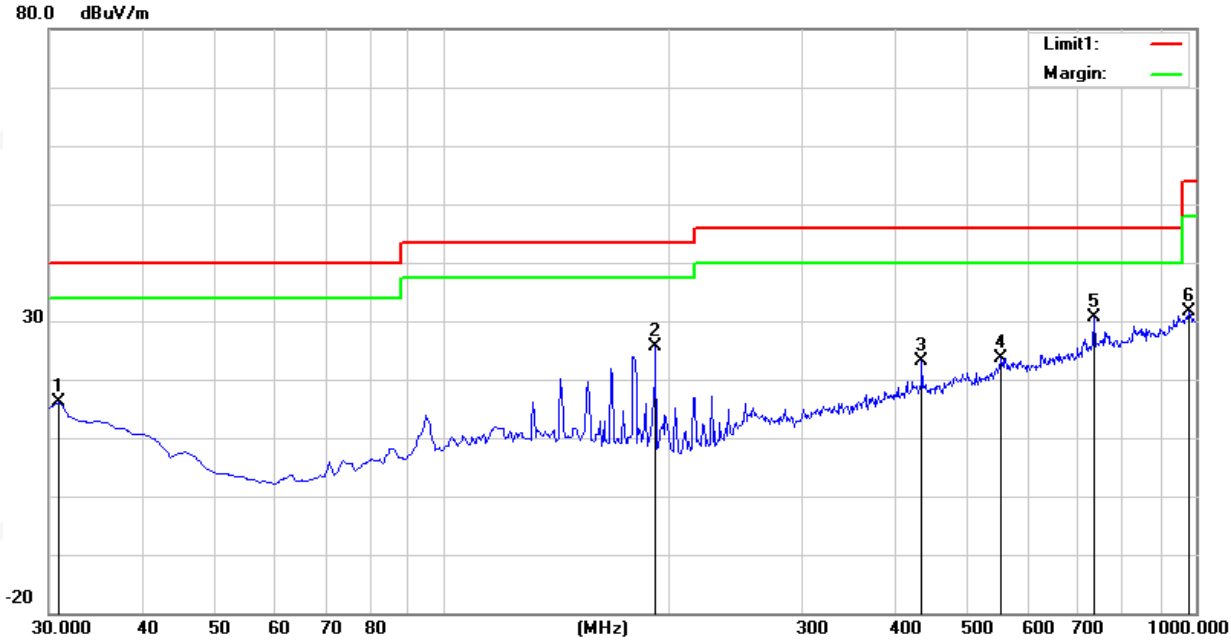
Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

(30MHz - 1000MHz)

Temperature:	23.4℃	Relative Humidtity:	60%
Test Voltage:	DC 3.8V	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 8 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	29.48	-13.35	16.13	40.00	-23.87	peak
2	191.9900	46.76	-21.04	25.72	43.50	-17.78	peak
3	433.5200	33.17	-10.13	23.04	46.00	-22.96	peak
4	551.8600	29.45	-5.72	23.73	46.00	-22.27	peak
5	733.2500	32.86	-2.35	30.51	46.00	-15.49	peak
6	981.5700	29.01	2.57	31.58	54.00	-22.42	peak

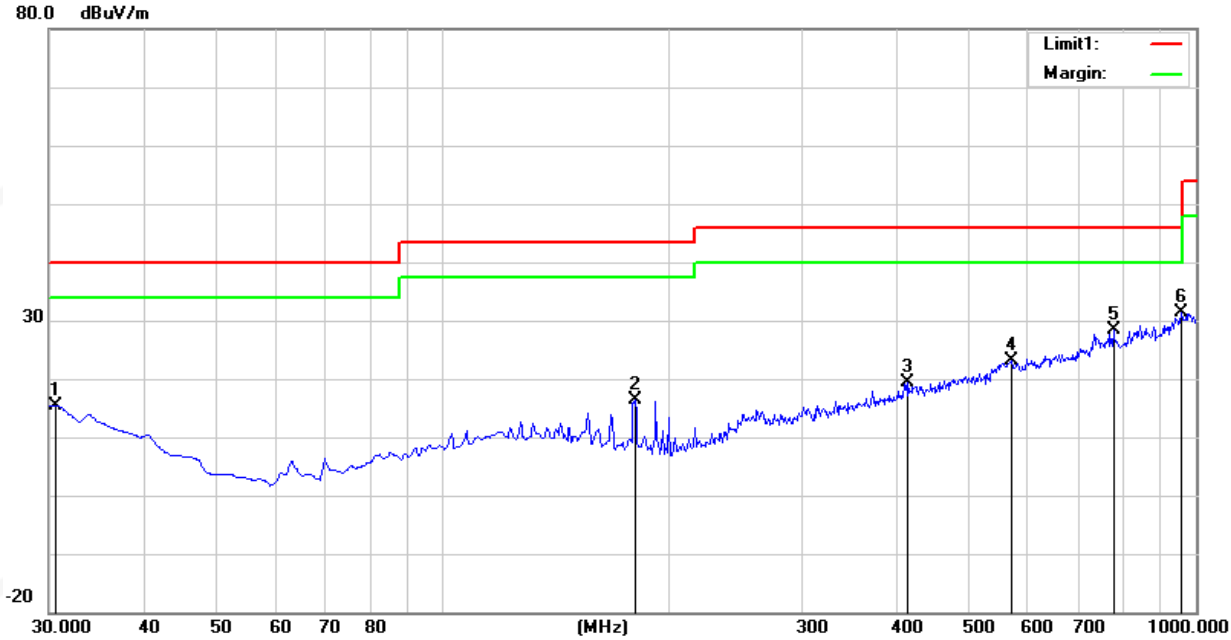
Remark:
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.



Temperature:	23.4℃	Relative Humidtity:	60%
Test Voltage:	DC 3.8V	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 8 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.6380	28.54	-13.18	15.36	40.00	-24.64	peak
2	180.3500	36.54	-20.04	16.50	43.50	-27.00	peak
3	416.0600	29.61	-10.28	19.33	46.00	-26.67	peak
4	570.2900	28.63	-5.61	23.02	46.00	-22.98	peak
5	778.8400	30.70	-2.23	28.47	46.00	-17.53	peak
6	956.3500	29.67	1.70	31.37	46.00	-14.63	peak

Remark:.
1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.



(1000MHz-25GHz) Spurious emission Requirements

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel 802.11n20										
3264.64	61.34	44.70	6.70	28.20	-9.80	51.54	74.00	-22.46	PK	Vertical
3264.64	50.51	44.70	6.70	28.20	-9.80	40.71	54.00	-13.29	AV	Vertical
3264.65	61.66	44.70	6.70	28.20	-9.80	51.86	74.00	-22.14	PK	Horizontal
3264.65	51.05	44.70	6.70	28.20	-9.80	41.25	54.00	-12.75	AV	Horizontal
4824.32	59.35	44.20	9.04	31.60	-3.56	55.79	74.00	-18.21	PK	Vertical
4824.32	50.39	44.20	9.04	31.60	-3.56	46.83	54.00	-7.17	AV	Vertical
4824.40	58.88	44.20	9.04	31.60	-3.56	55.32	74.00	-18.68	PK	Horizontal
4824.40	49.96	44.20	9.04	31.60	-3.56	46.40	54.00	-7.60	AV	Horizontal
5359.84	48.59	44.20	9.86	32.00	-2.34	46.25	74.00	-27.75	PK	Vertical
5359.84	40.34	44.20	9.86	32.00	-2.34	38.00	54.00	-16.00	AV	Vertical
5359.81	48.42	44.20	9.86	32.00	-2.34	46.08	74.00	-27.92	PK	Horizontal
5359.81	39.14	44.20	9.86	32.00	-2.34	36.80	54.00	-17.20	AV	Horizontal
7235.80	54.91	43.50	11.40	35.50	3.40	58.31	74.00	-15.69	PK	Vertical
7235.80	43.97	43.50	11.40	35.50	3.40	47.37	54.00	-6.63	AV	Vertical
7235.72	54.32	43.50	11.40	35.50	3.40	57.72	74.00	-16.28	PK	Horizontal
7235.72	44.64	43.50	11.40	35.50	3.40	48.04	54.00	-5.96	AV	Horizontal
Middle Channel										
3264.78	61.83	44.70	6.70	28.20	-9.80	52.03	74.00	-21.97	PK	Vertical
3264.78	51.55	44.70	6.70	28.20	-9.80	41.75	54.00	-12.25	AV	Vertical
3264.71	60.79	44.70	6.70	28.20	-9.80	50.99	74.00	-23.01	PK	Horizontal
3264.71	50.61	44.70	6.70	28.20	-9.80	40.81	54.00	-13.19	AV	Horizontal
4874.33	59.29	44.20	9.04	31.60	-3.56	55.73	74.00	-18.27	PK	Vertical
4874.33	49.61	44.20	9.04	31.60	-3.56	46.05	54.00	-7.95	AV	Vertical
4874.37	59.12	44.20	9.04	31.60	-3.56	55.56	74.00	-18.44	PK	Horizontal
4874.37	49.41	44.20	9.04	31.60	-3.56	45.85	54.00	-8.15	AV	Horizontal
5359.59	48.95	44.20	9.86	32.00	-2.34	46.61	74.00	-27.39	PK	Vertical
5359.59	40.32	44.20	9.86	32.00	-2.34	37.98	54.00	-16.02	AV	Vertical
5359.62	47.49	44.20	9.86	32.00	-2.34	45.15	74.00	-28.85	PK	Horizontal
5359.62	39.36	44.20	9.86	32.00	-2.34	37.02	54.00	-16.98	AV	Horizontal
7310.95	53.90	43.50	11.40	35.50	3.40	57.30	74.00	-16.70	PK	Vertical
7310.95	44.93	43.50	11.40	35.50	3.40	48.33	54.00	-5.67	AV	Vertical
7310.77	53.62	43.50	11.40	35.50	3.40	57.02	74.00	-16.98	PK	Horizontal
7310.77	44.96	43.50	11.40	35.50	3.40	48.36	54.00	-5.64	AV	Horizontal

High Channel										
3264.77	61.99	44.70	6.70	28.20	-9.80	52.19	74.00	-21.81	PK	Vertical
3264.77	51.61	44.70	6.70	28.20	-9.80	41.81	54.00	-12.19	AV	Vertical
3264.64	61.61	44.70	6.70	28.20	-9.80	51.81	74.00	-22.19	PK	Horizontal
3264.64	50.27	44.70	6.70	28.20	-9.80	40.47	54.00	-13.53	AV	Horizontal
4924.47	58.19	44.20	9.04	31.60	-3.56	54.63	74.00	-19.37	PK	Vertical
4924.47	49.85	44.20	9.04	31.60	-3.56	46.29	54.00	-7.71	AV	Vertical
4924.54	59.36	44.20	9.04	31.60	-3.56	55.80	74.00	-18.20	PK	Horizontal
4924.54	50.37	44.20	9.04	31.60	-3.56	46.81	54.00	-7.19	AV	Horizontal
5359.76	49.17	44.20	9.86	32.00	-2.34	46.83	74.00	-27.17	PK	Vertical
5359.76	39.46	44.20	9.86	32.00	-2.34	37.12	54.00	-16.88	AV	Vertical
5359.83	47.53	44.20	9.86	32.00	-2.34	45.19	74.00	-28.81	PK	Horizontal
5359.83	39.42	44.20	9.86	32.00	-2.34	37.08	54.00	-16.92	AV	Horizontal
7385.76	54.71	43.50	11.40	35.50	3.40	58.11	74.00	-15.89	PK	Vertical
7385.76	43.95	43.50	11.40	35.50	3.40	47.35	54.00	-6.65	AV	Vertical
7385.74	53.54	43.50	11.40	35.50	3.40	56.94	74.00	-17.06	PK	Horizontal
7385.74	44.89	43.50	11.40	35.50	3.40	48.29	54.00	-5.71	AV	Horizontal

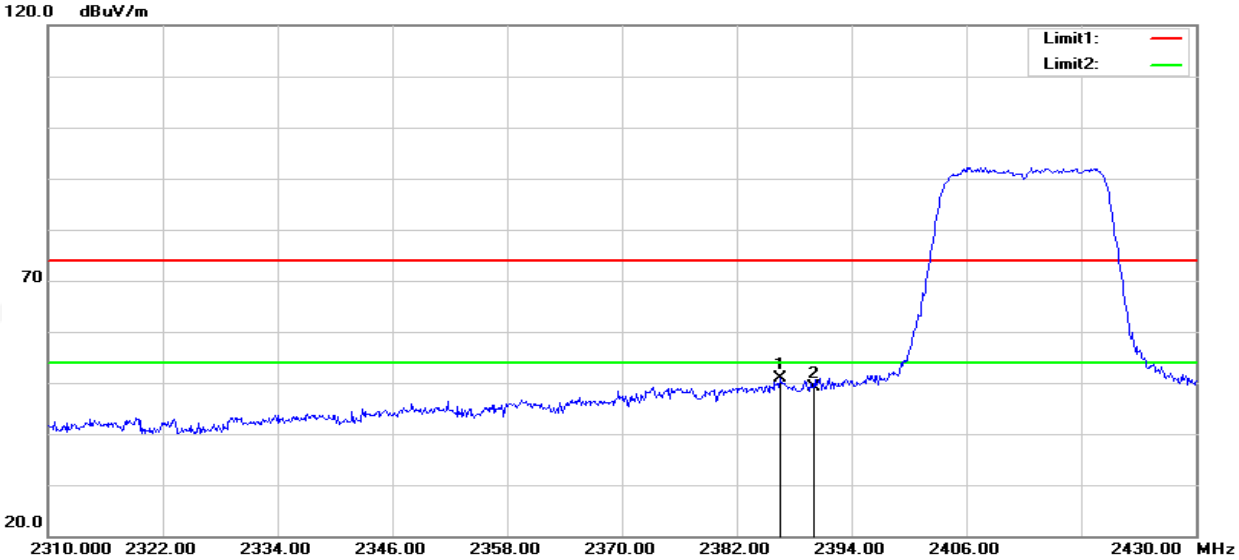
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measured, only worst mode was reported.
   Emission Level = Reading + Factor
   Margin = Emission Level-Limit
3. 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.

3.2.6 TEST RESULTS(Band edge Requirements)

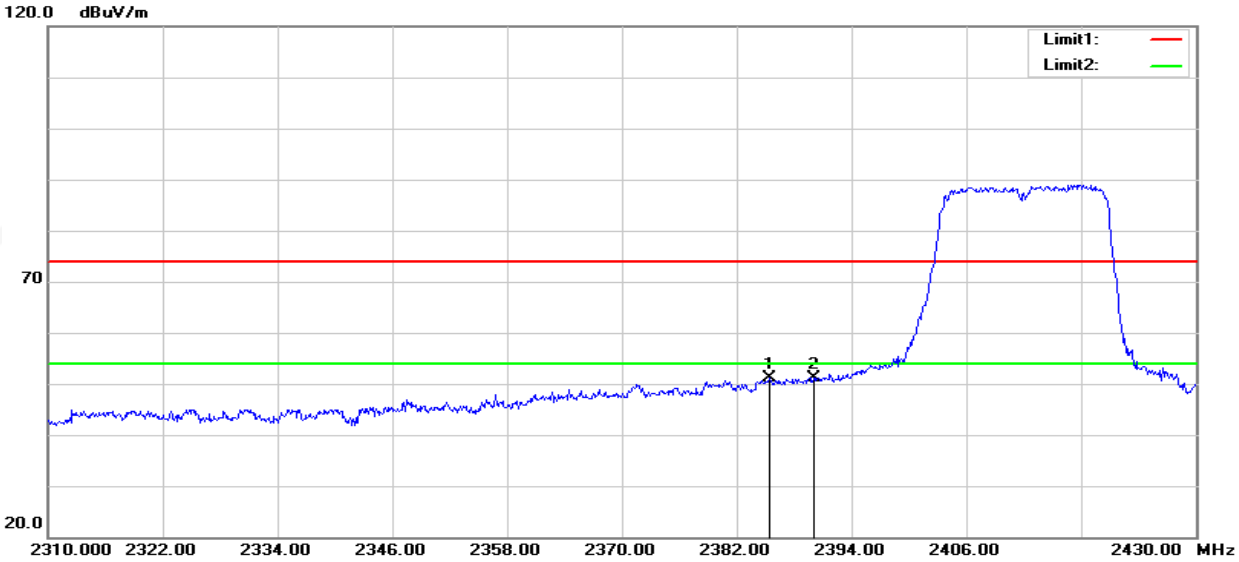
802.11 n20-Low

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.560	46.64	4.28	50.92	54.00	-3.08	peak
2	2390.000	44.72	4.34	49.06	54.00	-4.94	peak

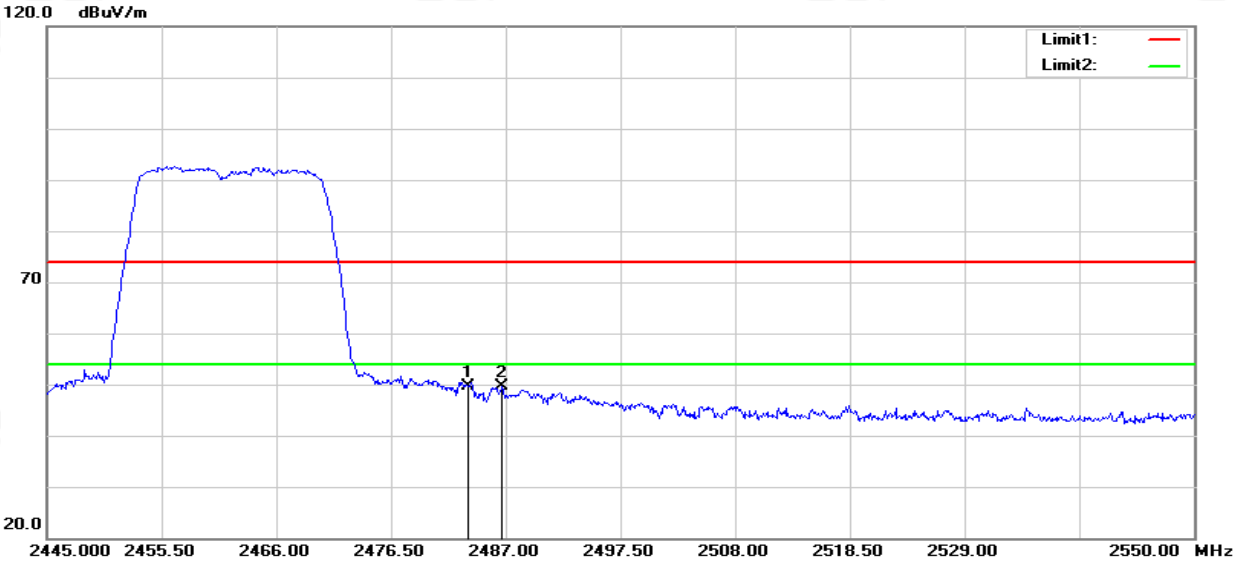
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.480	46.93	4.27	51.20	54.00	-2.80	peak
2	2390.000	46.82	4.34	51.16	54.00	-2.84	peak

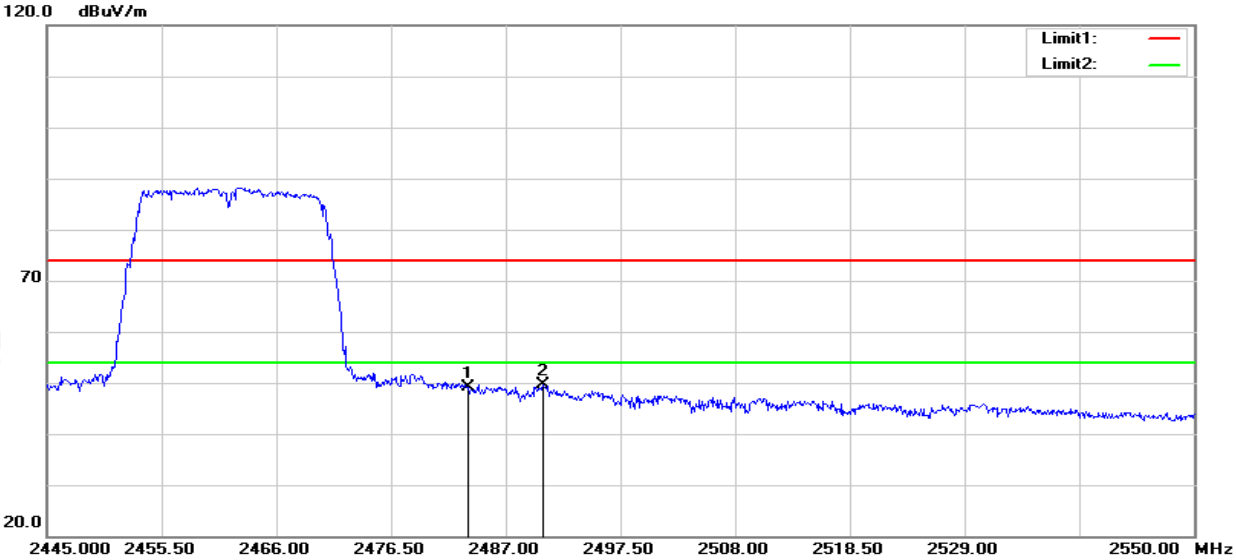
802.11 n20-High

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	44.91	4.60	49.51	54.00	-4.49	peak
2	2486.685	45.01	4.61	49.62	54.00	-4.38	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	44.55	4.60	49.15	54.00	-4.85	peak
2	2490.465	45.12	4.63	49.75	54.00	-4.25	peak

Note: All modes have been measured, only worst mode was reported.

4. DUTY CYCLE

4.1 TEST STANDARD
Please refer to ANSI C63.10-2020+Cor 1-2023 Section 11.6

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Zero
RB	set RBW to the largest available value
VB	VBW ⩾ RBW.
Detector	Peak
Trace	Clear Write
Sweep Time	Auto

4.3 DEVIATION FROM STANDARD
No deviation.

4.4 TEST SETUP

4.5 EUT OPERATION CONDITIONS
The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS
Note: The test data please refer to APPENDIX 1.

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
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; 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.

5.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS

Note:

1. The test data please refer to APPENDIX 1.

6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥3KHz)	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 100 kHz ≥ RBW ≥3 kHz.
4. Set the VBW ≥ 3 x 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 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

7. BANDWIDTH TEST

7.1 LIMIT

FCC Part15.247,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 = 1% to 5% of the OBW but not less than 100 kHz., VBW≥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 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

7.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

8. PEAK OUTPUT POWER TEST

7.1 LIMIT

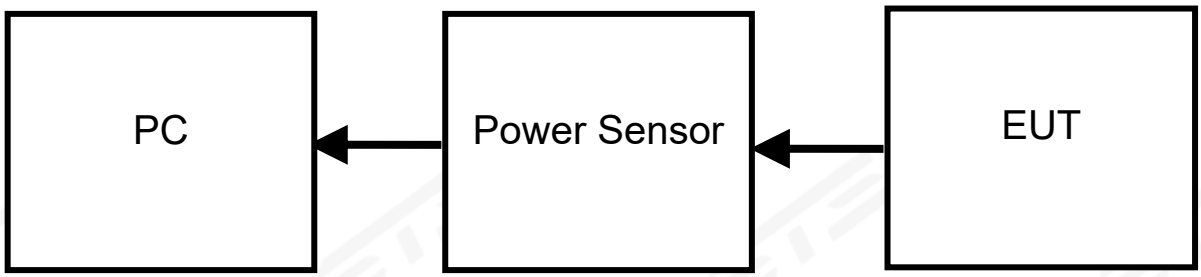
FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

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 DEVIATION FROM STANDARD
No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS
Please refer to section 3.1.4 of this report.

8.6 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 partyshall be used with the device.

9.2 EUT ANTENNA

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

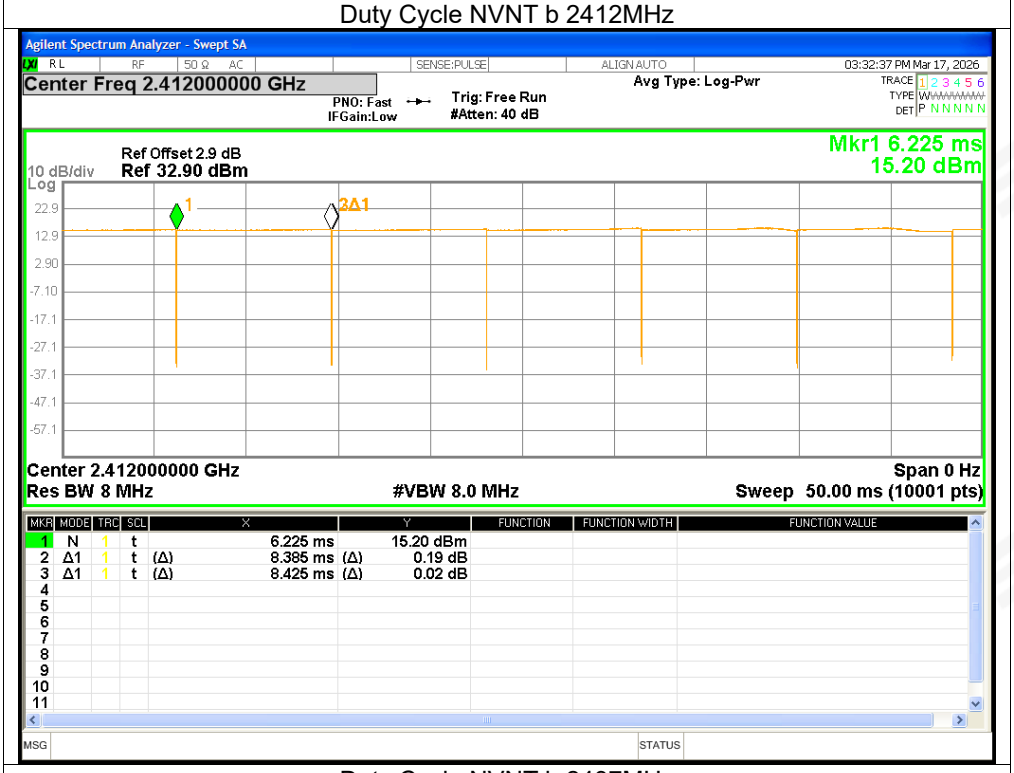
APPENDIX 1-TEST DATA

Duty Cycle

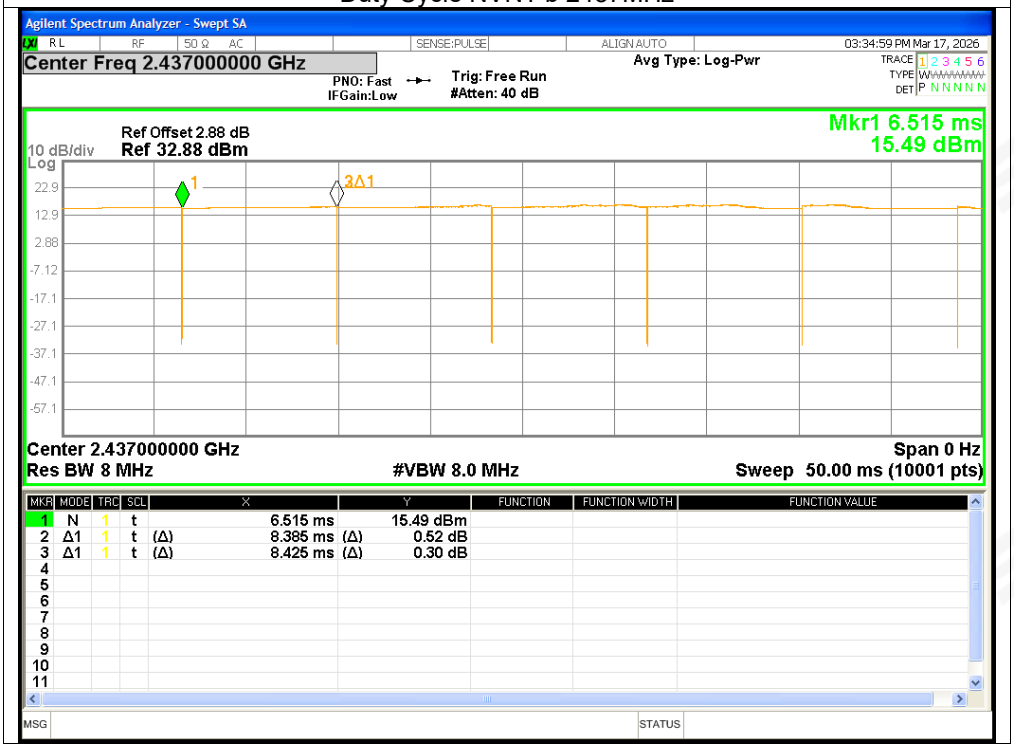
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	8.385	8.425	99.53	0.02	0.12
NVNT	b	2437	8.385	8.425	99.53	0.02	0.12
NVNT	b	2462	8.385	8.42	99.58	0.02	0.12
NVNT	g	2412	1.392	1.437	96.87	0.14	0.72
NVNT	g	2437	1.392	1.434	97.07	0.13	0.72
NVNT	g	2462	1.392	1.437	96.87	0.14	0.72
NVNT	n20	2412	1.299	1.344	96.65	0.15	0.77
NVNT	n20	2437	1.302	1.347	96.66	0.15	0.77
NVNT	n20	2462	1.299	1.344	96.65	0.15	0.77
NVNT	n40	2422	0.648	0.692	93.64	0.29	1.54
NVNT	n40	2437	0.648	0.69	93.91	0.27	1.54
NVNT	n40	2452	0.648	0.69	93.91	0.27	1.54

Test Graphs

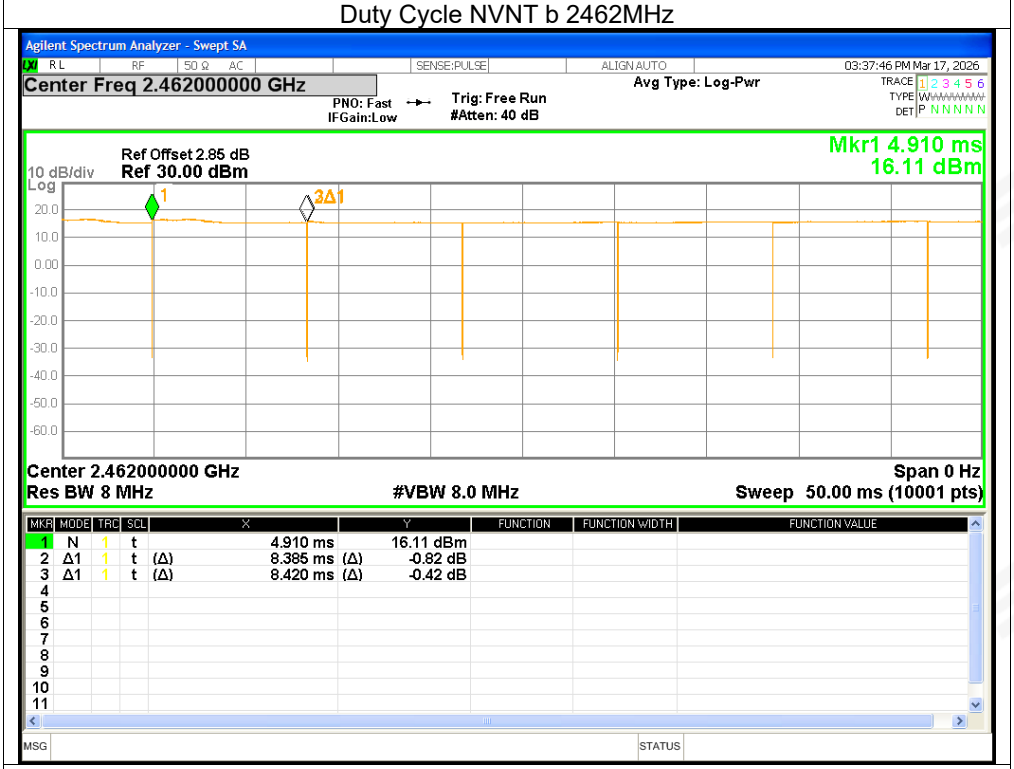
Duty Cycle NVNT b 2412MHz



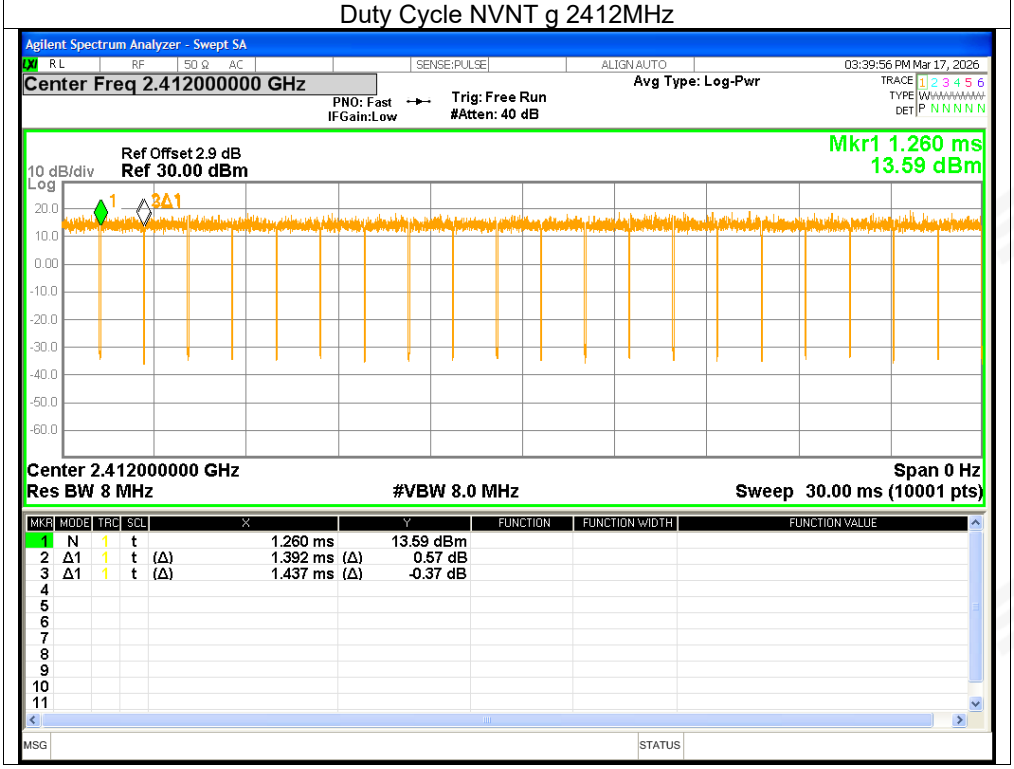
Duty Cycle NVNT b 2437MHz



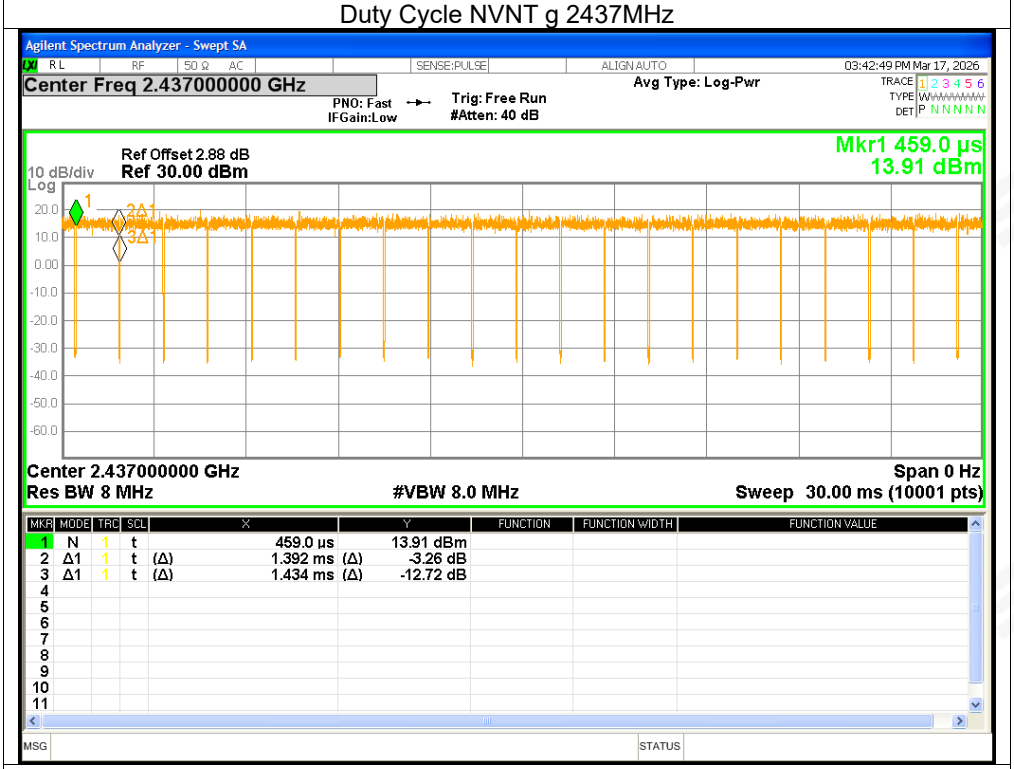
Duty Cycle NVNT b 2462MHz



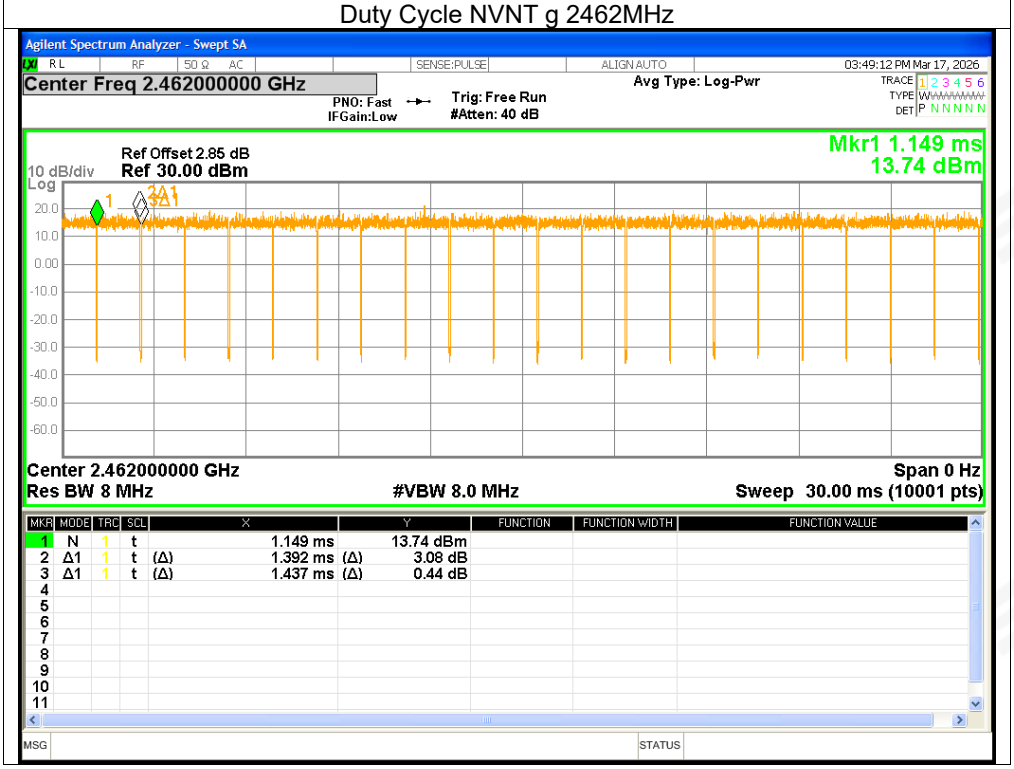
Duty Cycle NVNT g 2412MHz



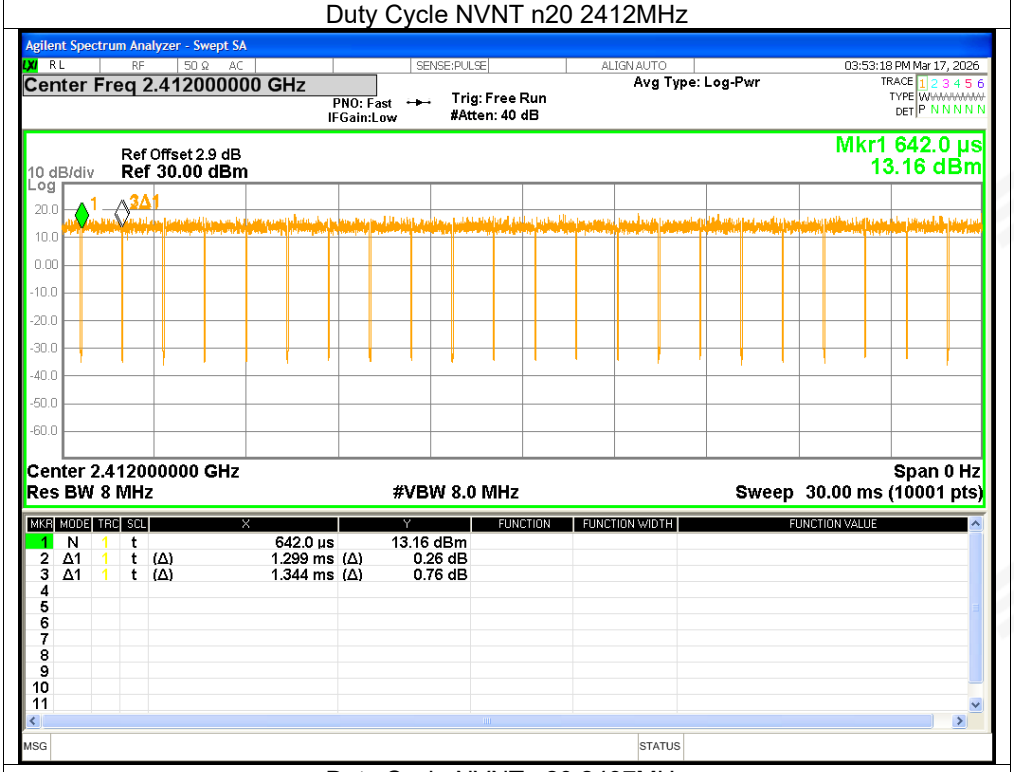
Duty Cycle NVNT g 2437MHz



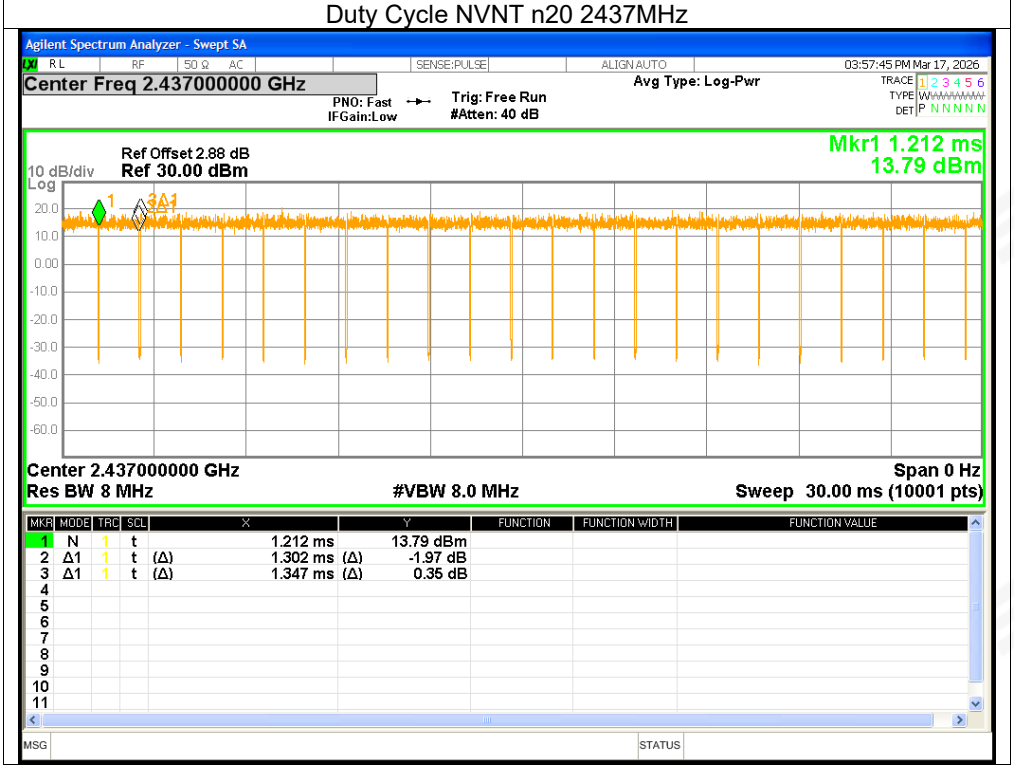
Duty Cycle NVNT g 2462MHz



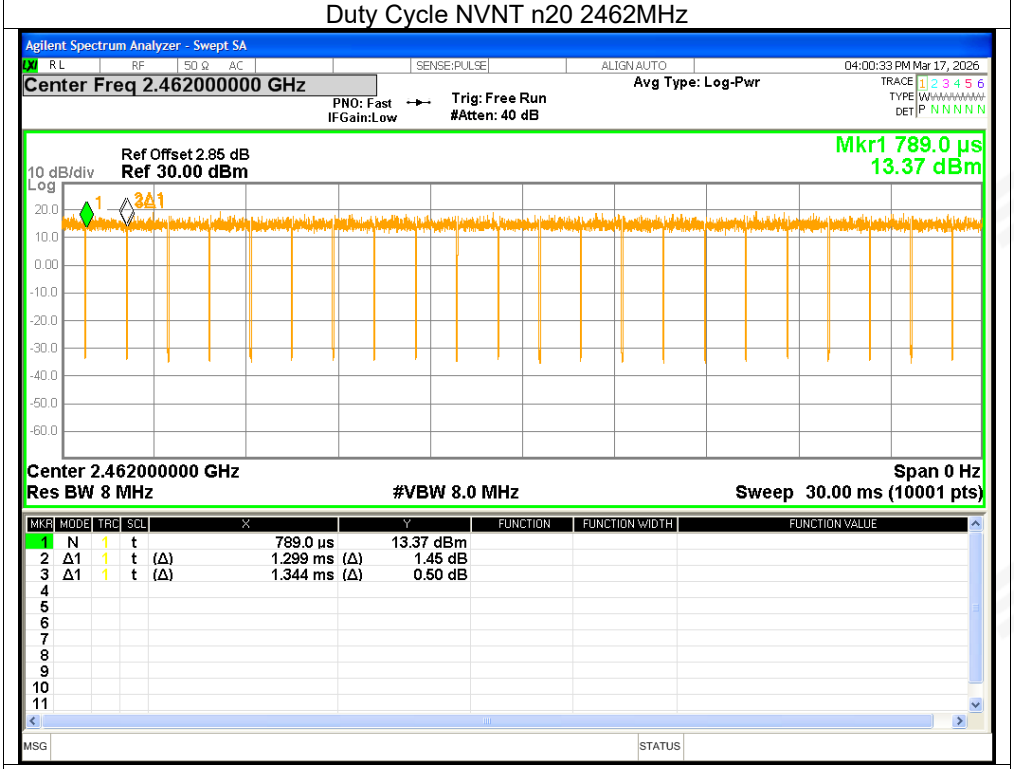
Duty Cycle NVNT n20 2412MHz



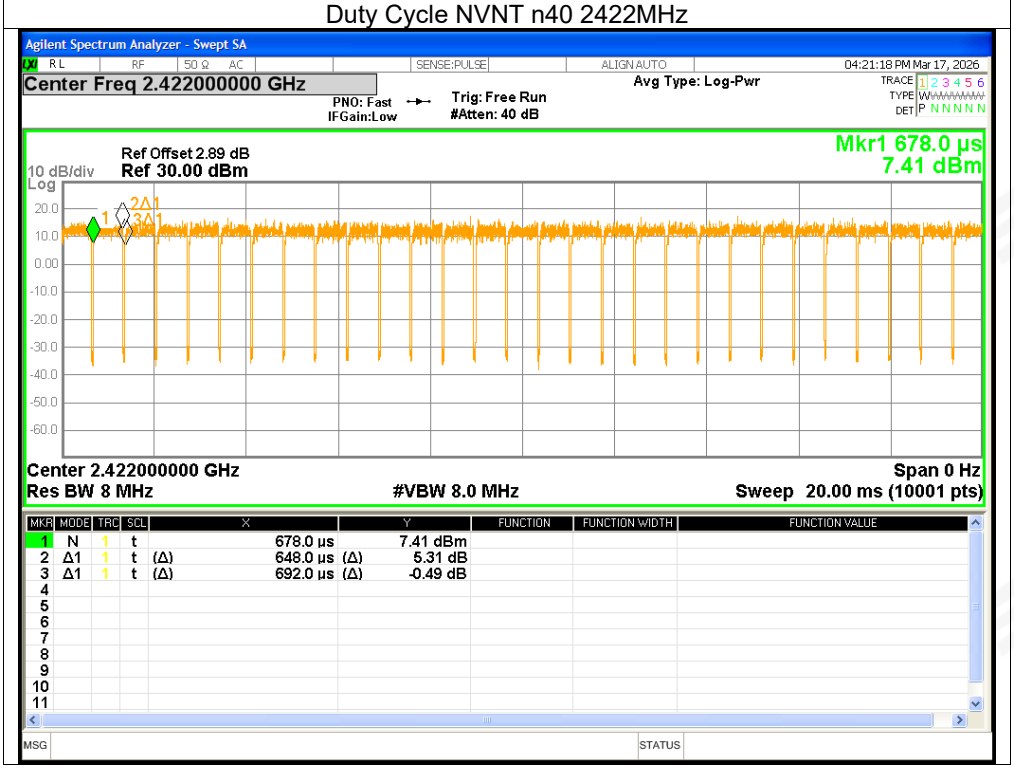
Duty Cycle NVNT n20 2437MHz



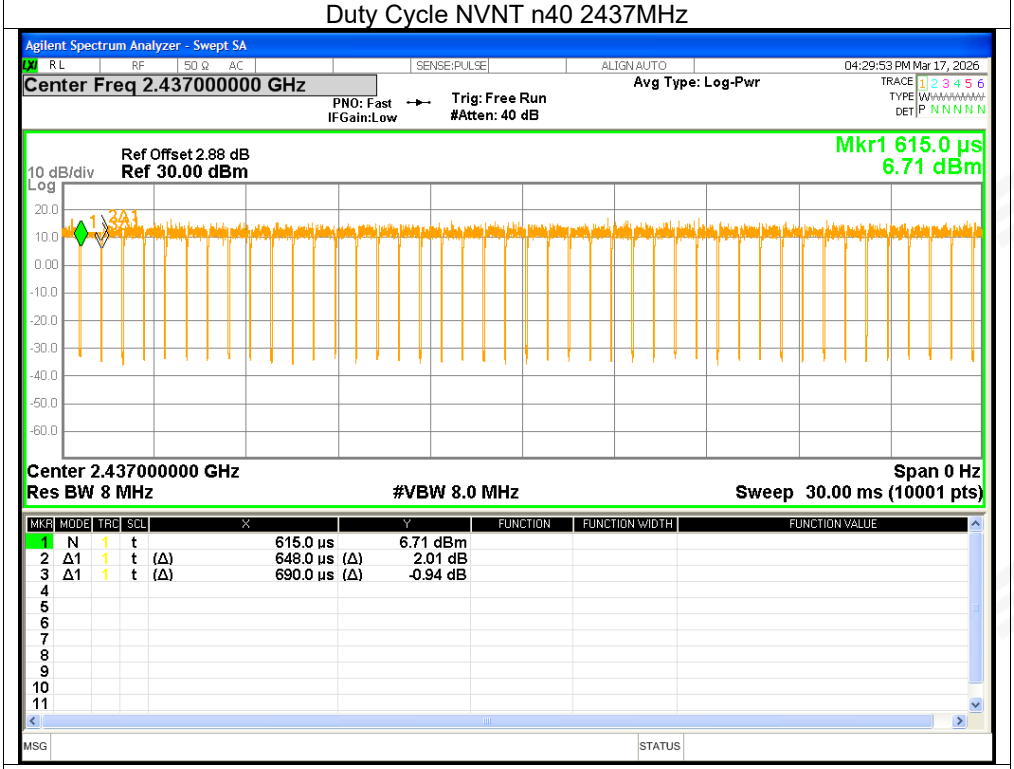
Duty Cycle NVNT n20 2462MHz



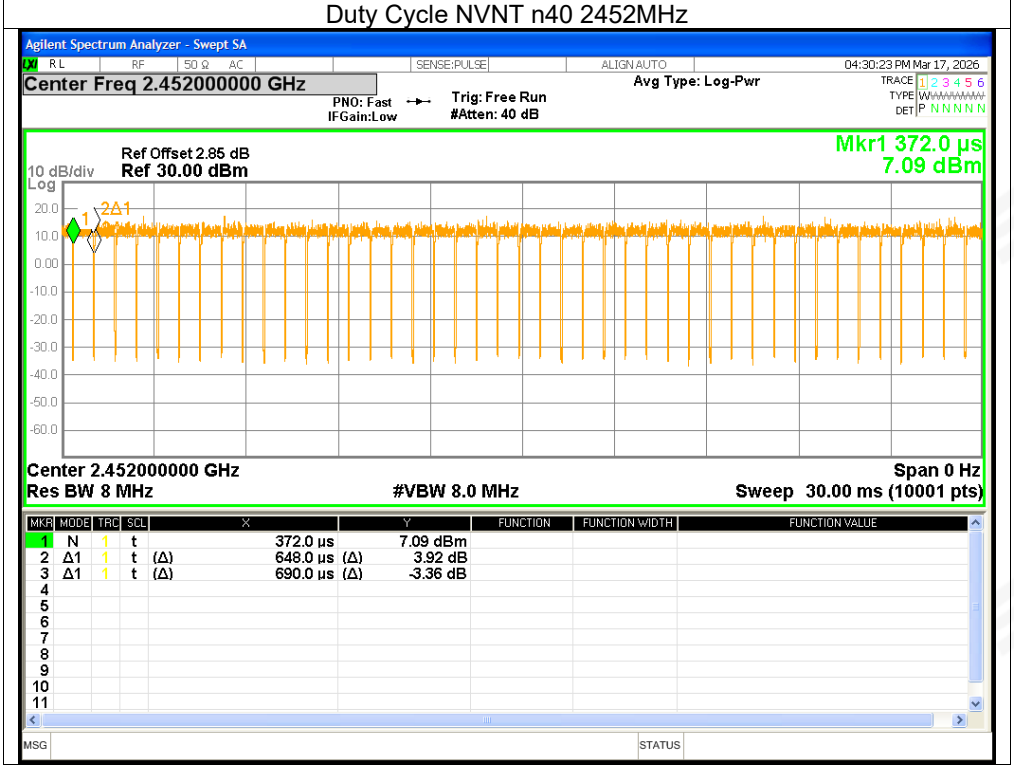
Duty Cycle NVNT n40 2422MHz



Duty Cycle NVNT n40 2437MHz



Duty Cycle NVNT n40 2452MHz



Maximum Peak Conducted Output Power

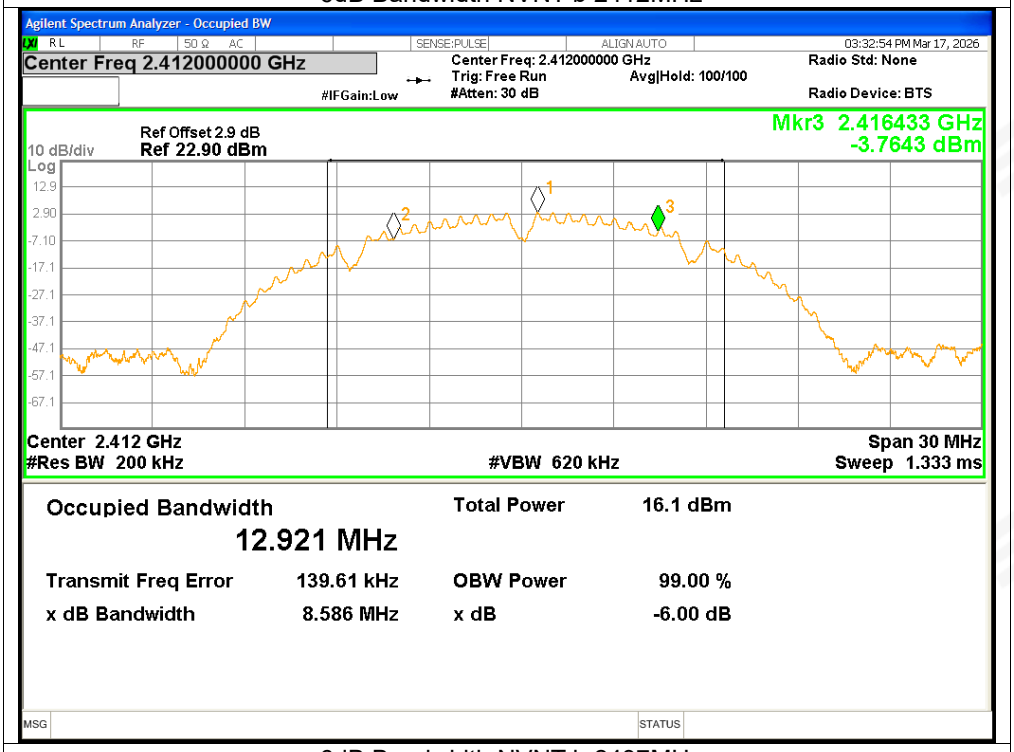
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	16.31	<=30	Pass
NVNT	b	2437	16.87	<=30	Pass
NVNT	b	2462	16.72	<=30	Pass
NVNT	g	2412	17.14	<=30	Pass
NVNT	g	2437	17.91	<=30	Pass
NVNT	g	2462	17.62	<=30	Pass
NVNT	n20	2412	17.24	<=30	Pass
NVNT	n20	2437	17.92	<=30	Pass
NVNT	n20	2462	17.3	<=30	Pass
NVNT	n40	2422	17.72	<=30	Pass
NVNT	n40	2437	17.88	<=30	Pass
NVNT	n40	2452	17.79	<=30	Pass

-6dB Bandwidth

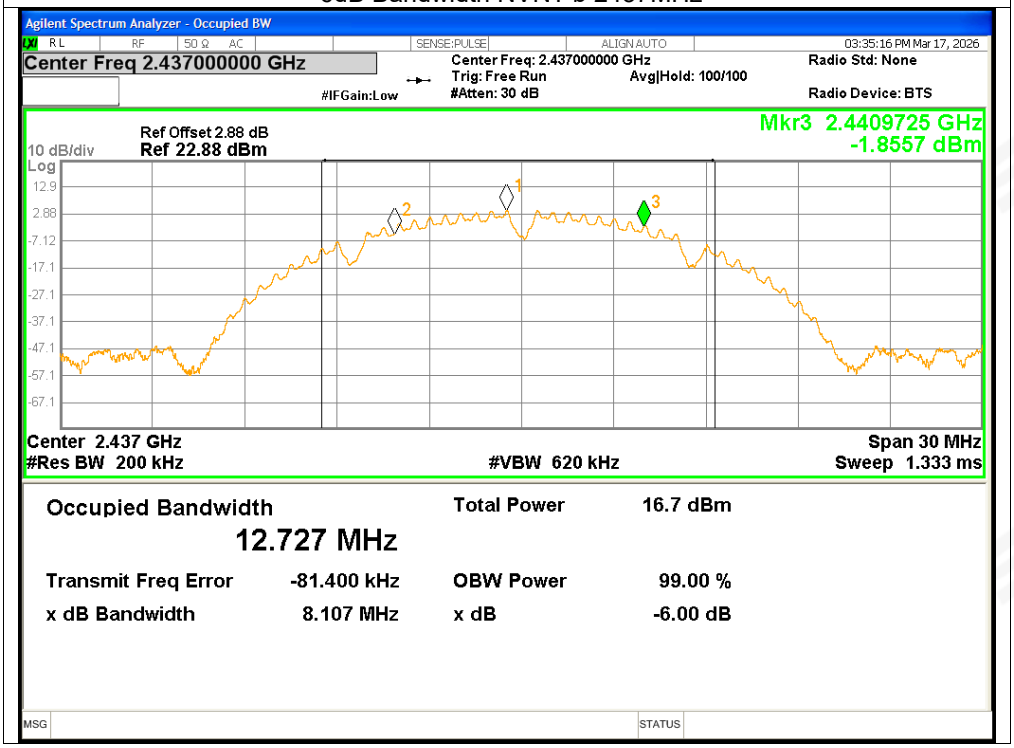
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.586	>=0.5	Pass
NVNT	b	2437	8.107	>=0.5	Pass
NVNT	b	2462	8.103	>=0.5	Pass
NVNT	g	2412	16.21	>=0.5	Pass
NVNT	g	2437	15.83	>=0.5	Pass
NVNT	g	2462	15.7	>=0.5	Pass
NVNT	n20	2412	17.34	>=0.5	Pass
NVNT	n20	2437	17.37	>=0.5	Pass
NVNT	n20	2462	16.49	>=0.5	Pass
NVNT	n40	2422	33.16	>=0.5	Pass
NVNT	n40	2437	35.76	>=0.5	Pass
NVNT	n40	2452	34.55	>=0.5	Pass

Test Graphs

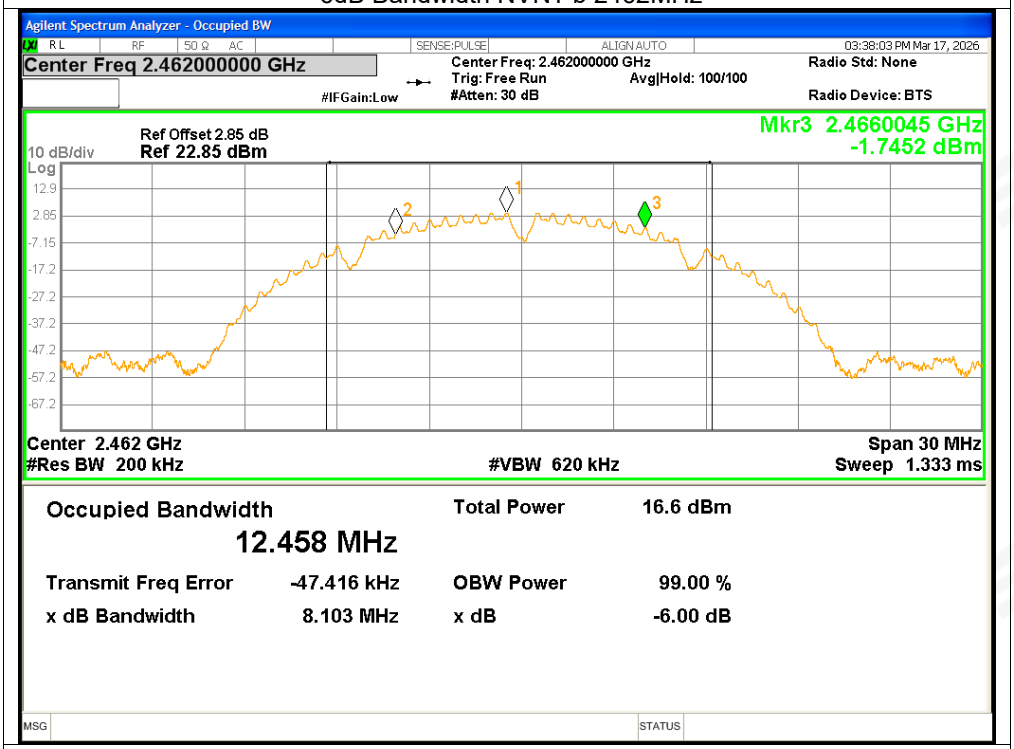
-6dB Bandwidth NVNT b 2412MHz



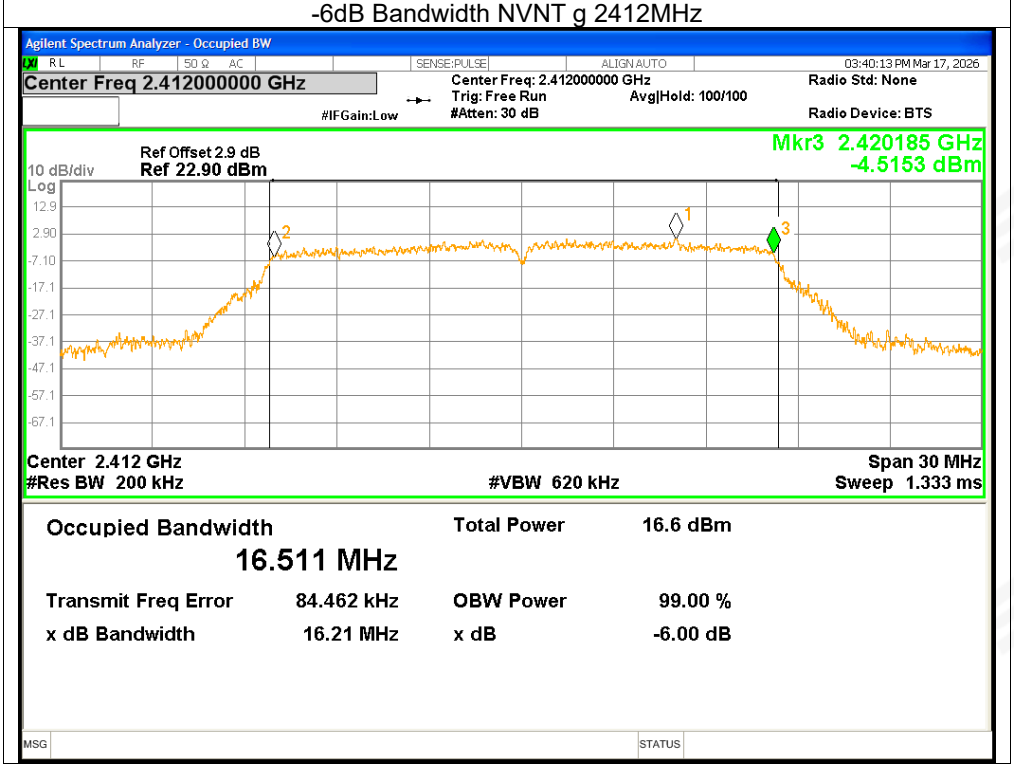
-6dB Bandwidth NVNT b 2437MHz



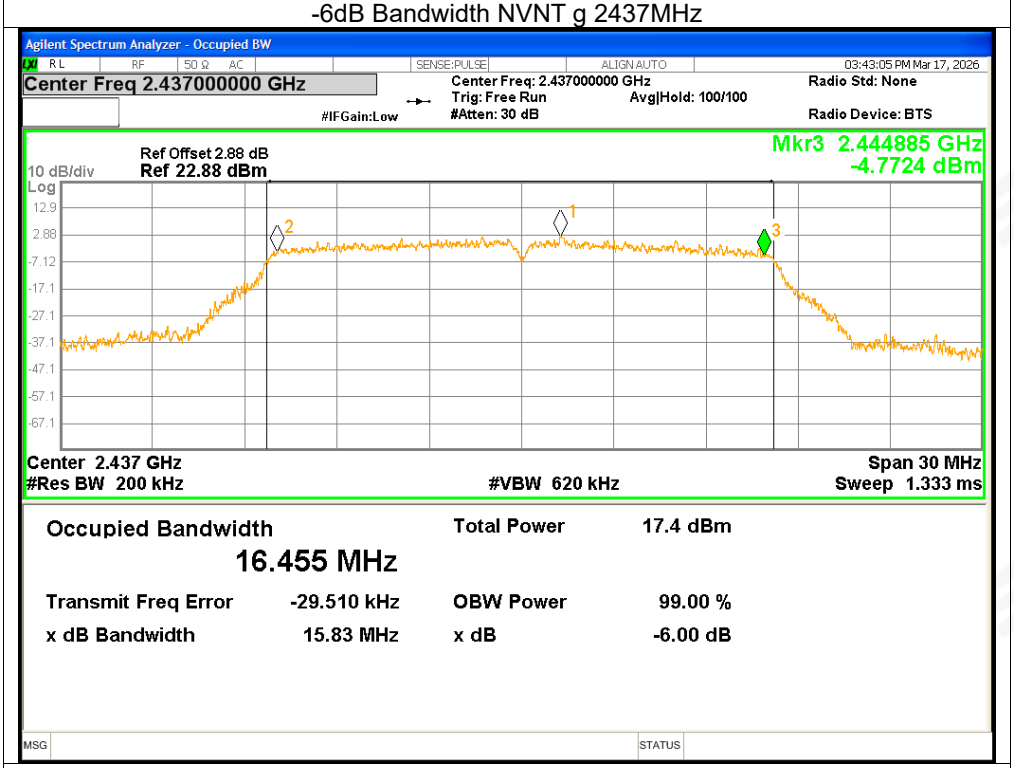
-6dB Bandwidth NVNT b 2462MHz



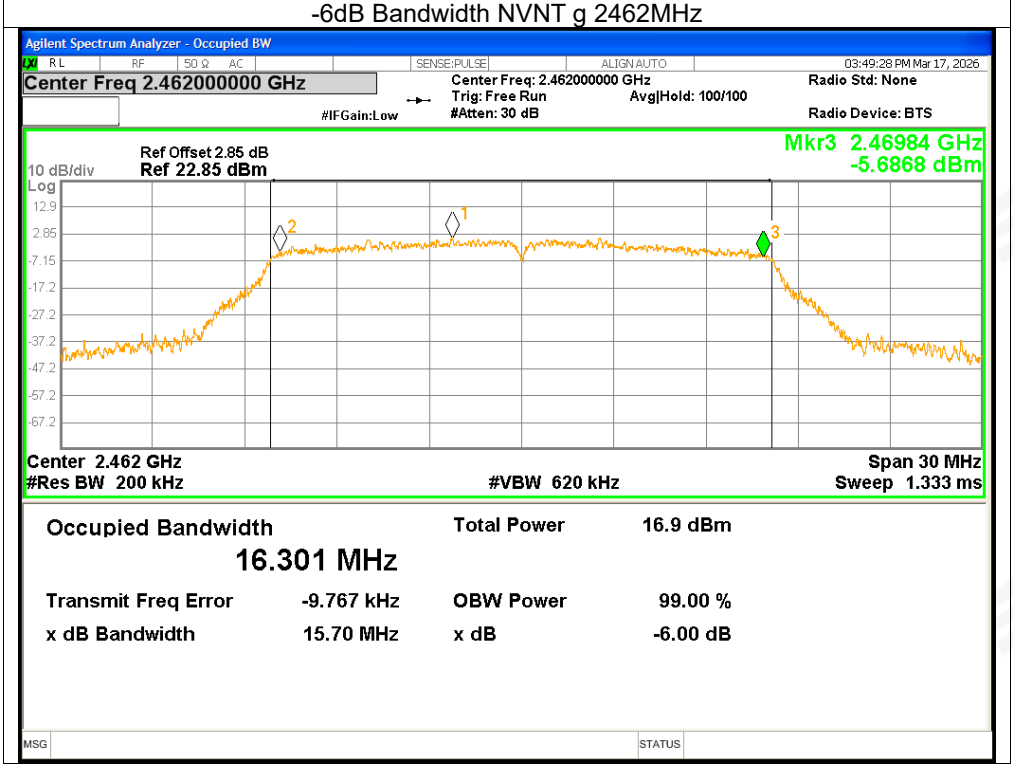
-6dB Bandwidth NVNT g 2412MHz



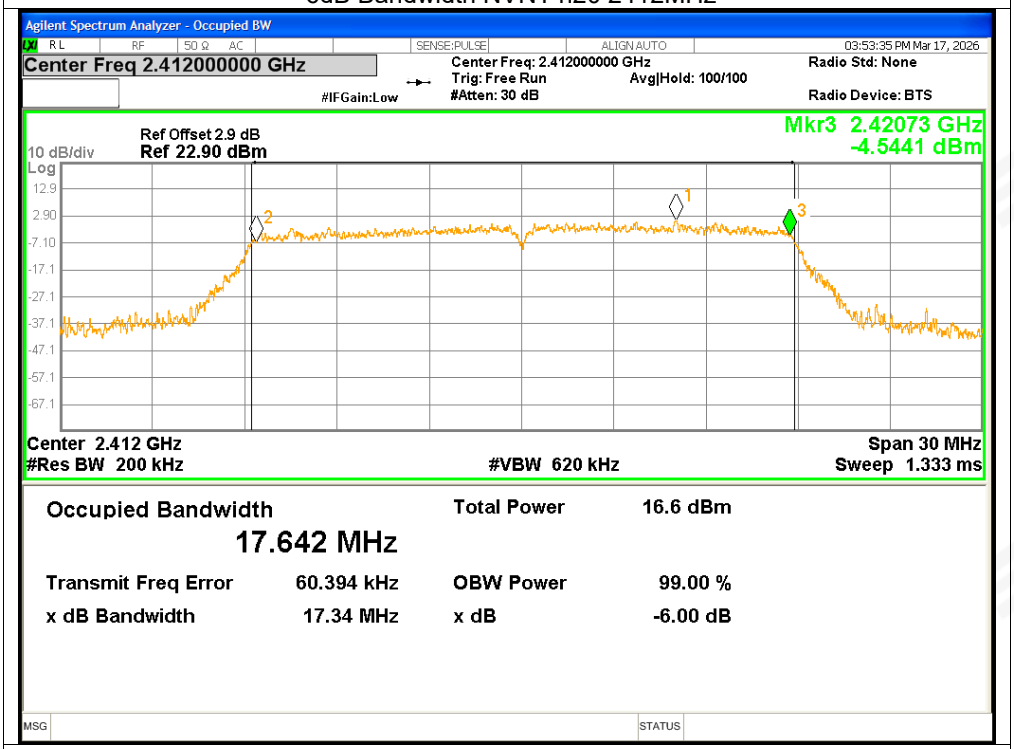
-6dB Bandwidth NVNT g 2437MHz



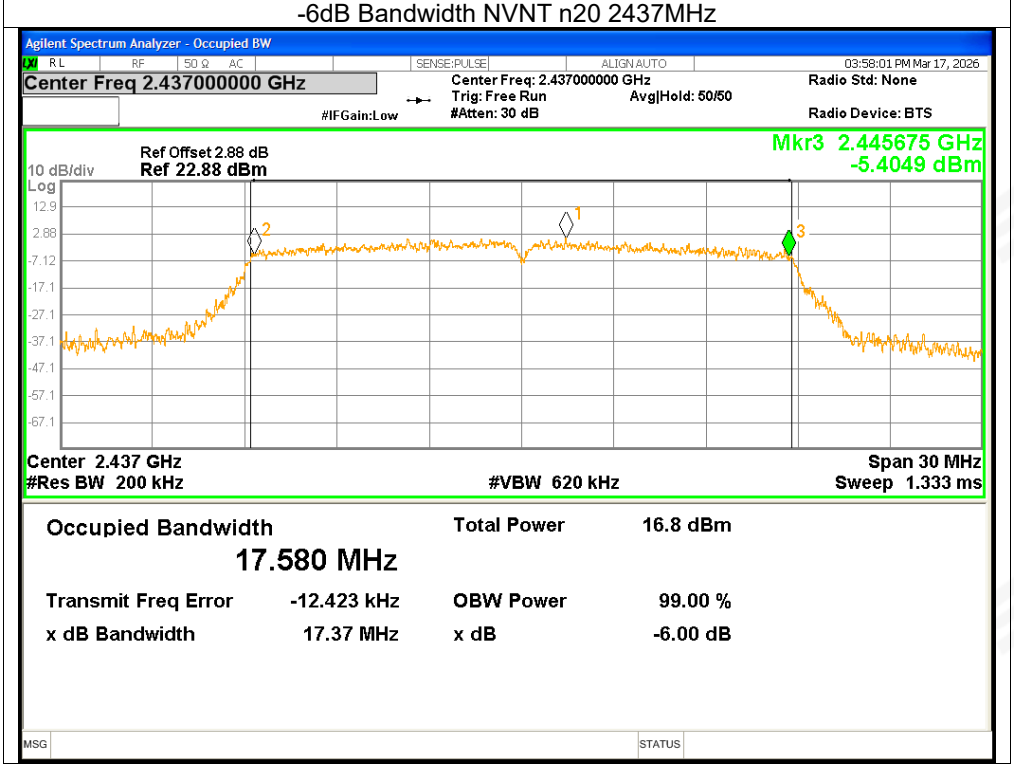
-6dB Bandwidth NVNT g 2462MHz



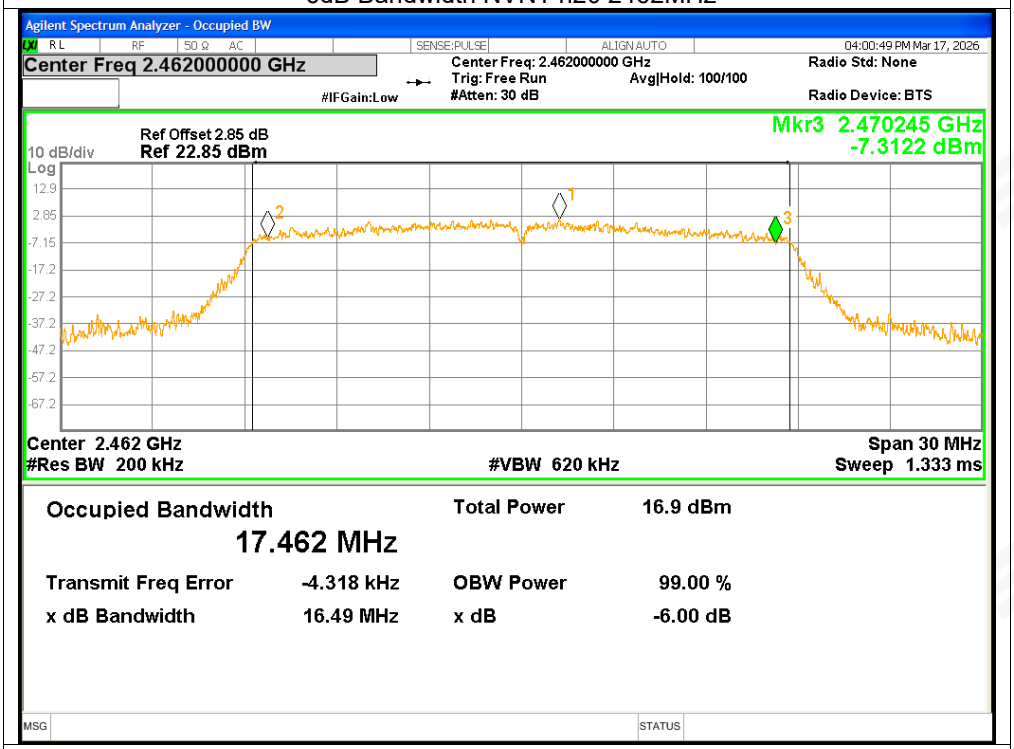
-6dB Bandwidth NVNT n20 2412MHz



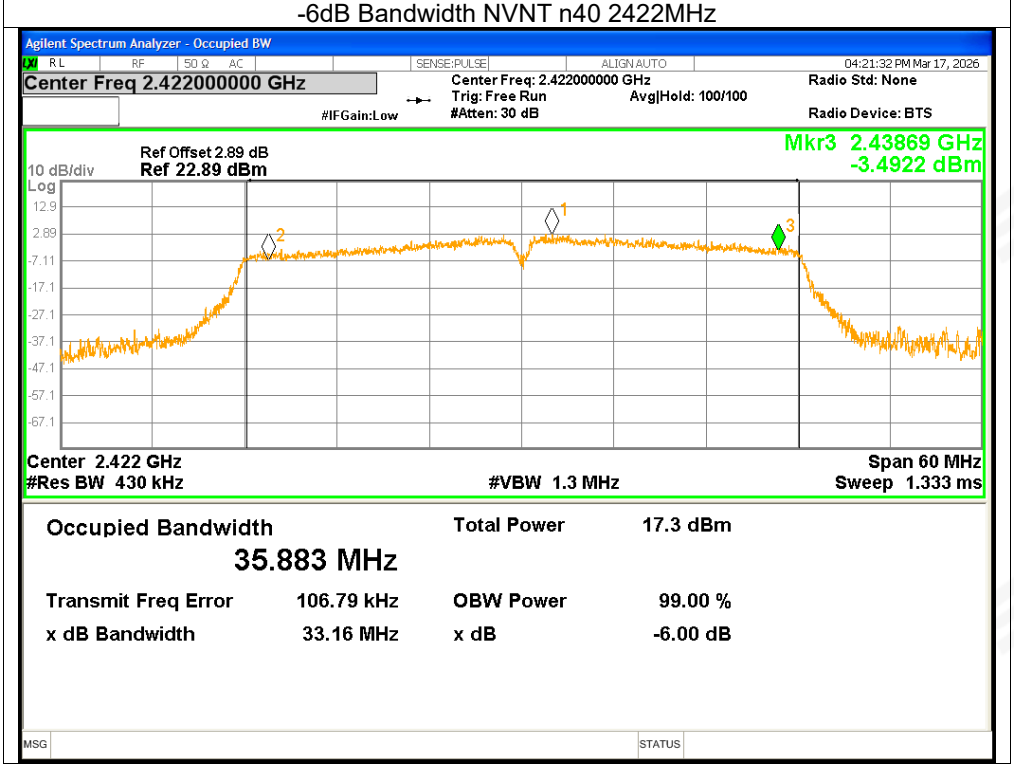
-6dB Bandwidth NVNT n20 2437MHz



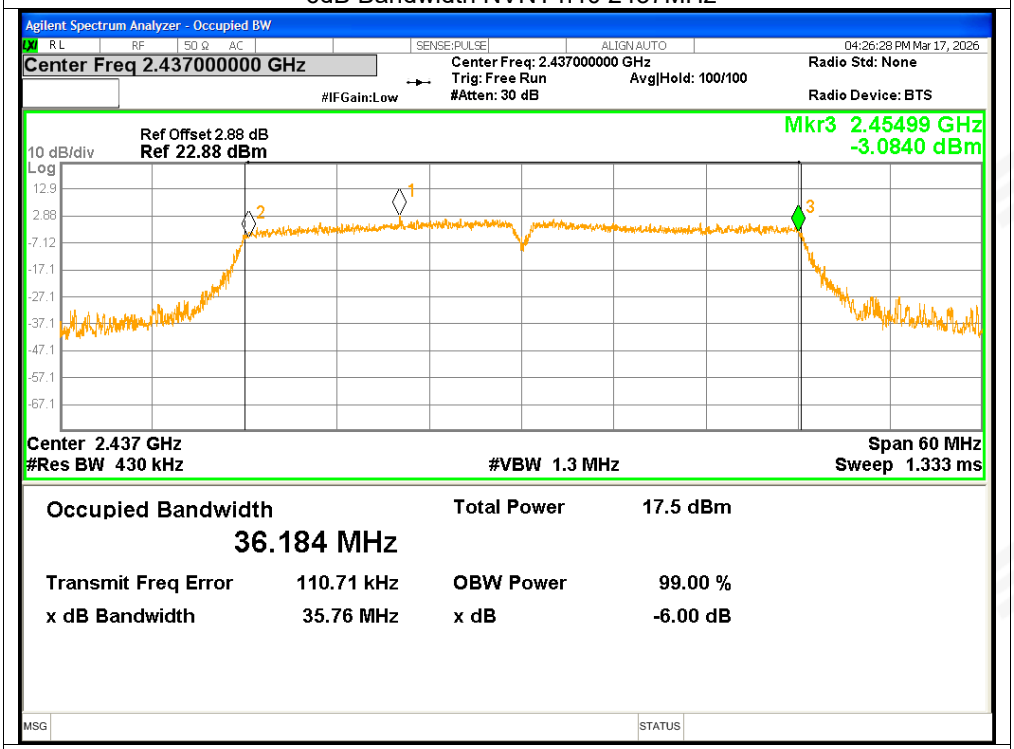
-6dB Bandwidth NVNT n20 2462MHz



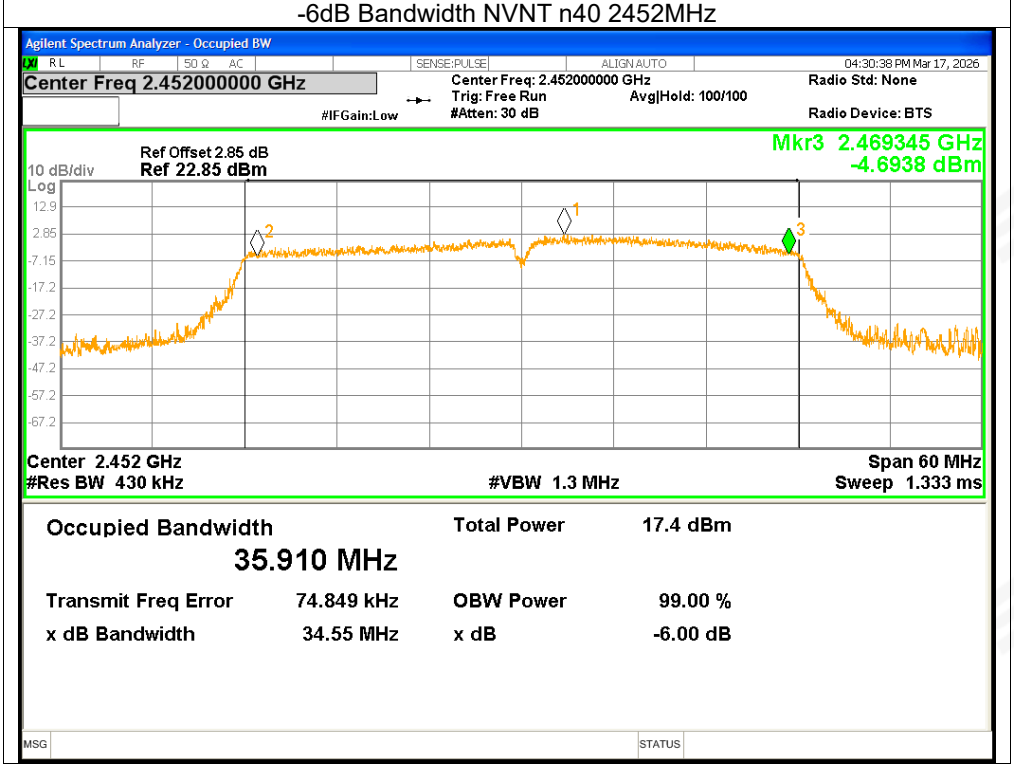
-6dB Bandwidth NVNT n40 2422MHz



-6dB Bandwidth NVNT n40 2437MHz



-6dB Bandwidth NVNT n40 2452MHz

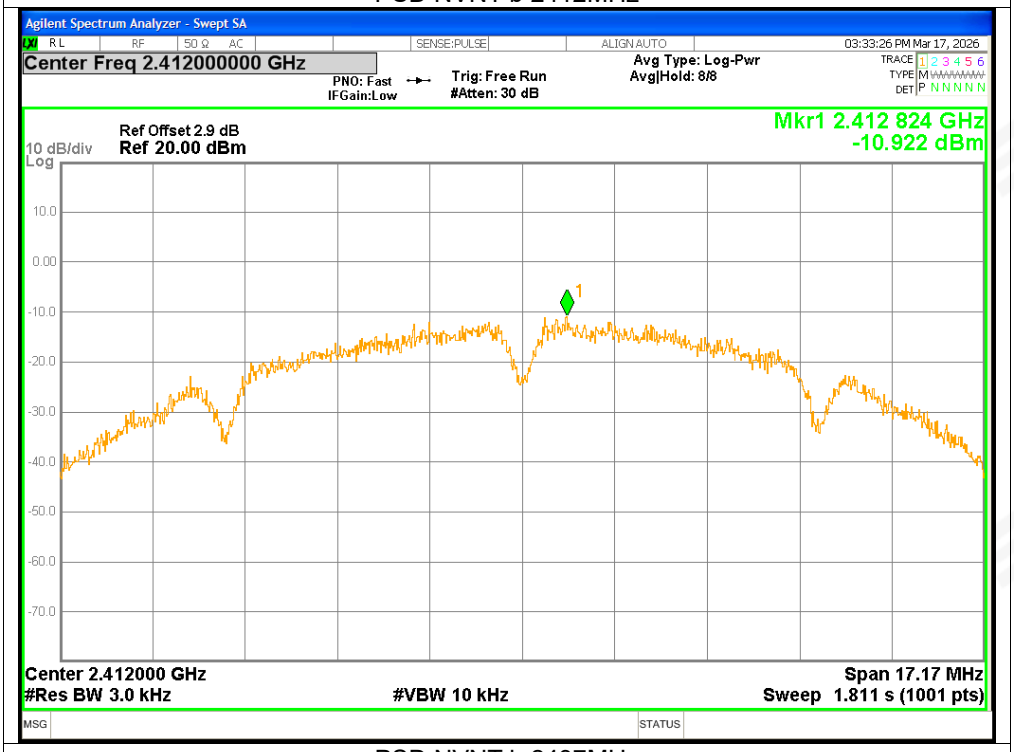


Maximum Power Spectral Density Level

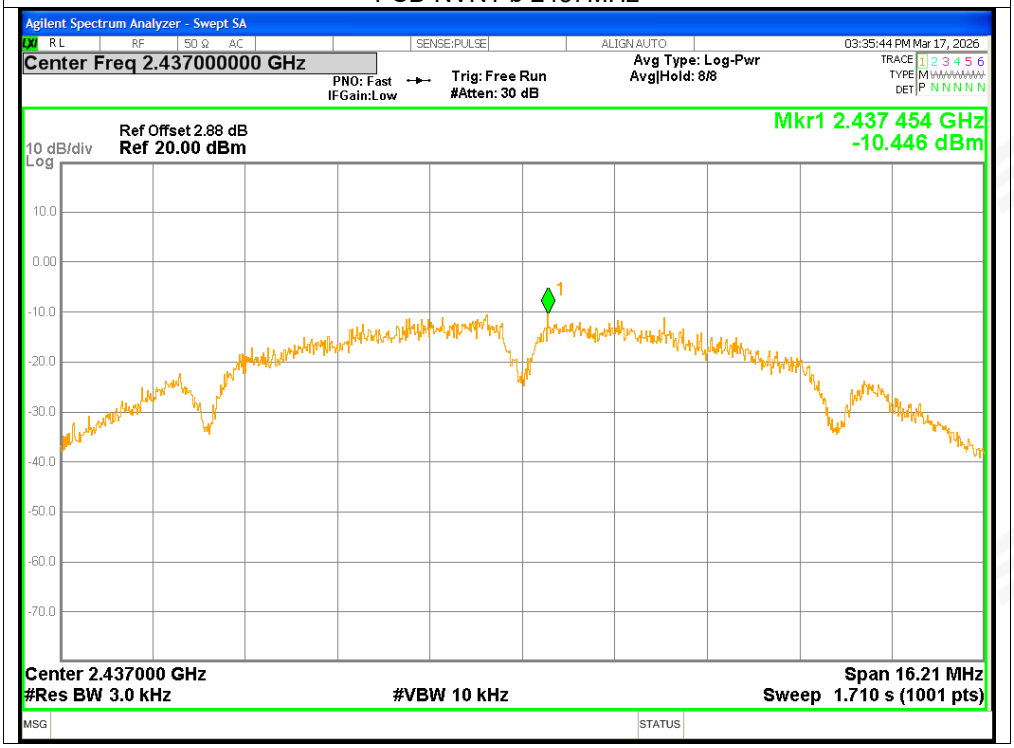
Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-10.92	<=8	Pass
NVNT	b	2437	-10.45	<=8	Pass
NVNT	b	2462	-10.2	<=8	Pass
NVNT	g	2412	-13.17	<=8	Pass
NVNT	g	2437	-11.14	<=8	Pass
NVNT	g	2462	-12.35	<=8	Pass
NVNT	n20	2412	-13.88	<=8	Pass
NVNT	n20	2437	-12.99	<=8	Pass
NVNT	n20	2462	-12.5	<=8	Pass
NVNT	n40	2422	-14.02	<=8	Pass
NVNT	n40	2437	-14.65	<=8	Pass
NVNT	n40	2452	-15.43	<=8	Pass

Test Graphs

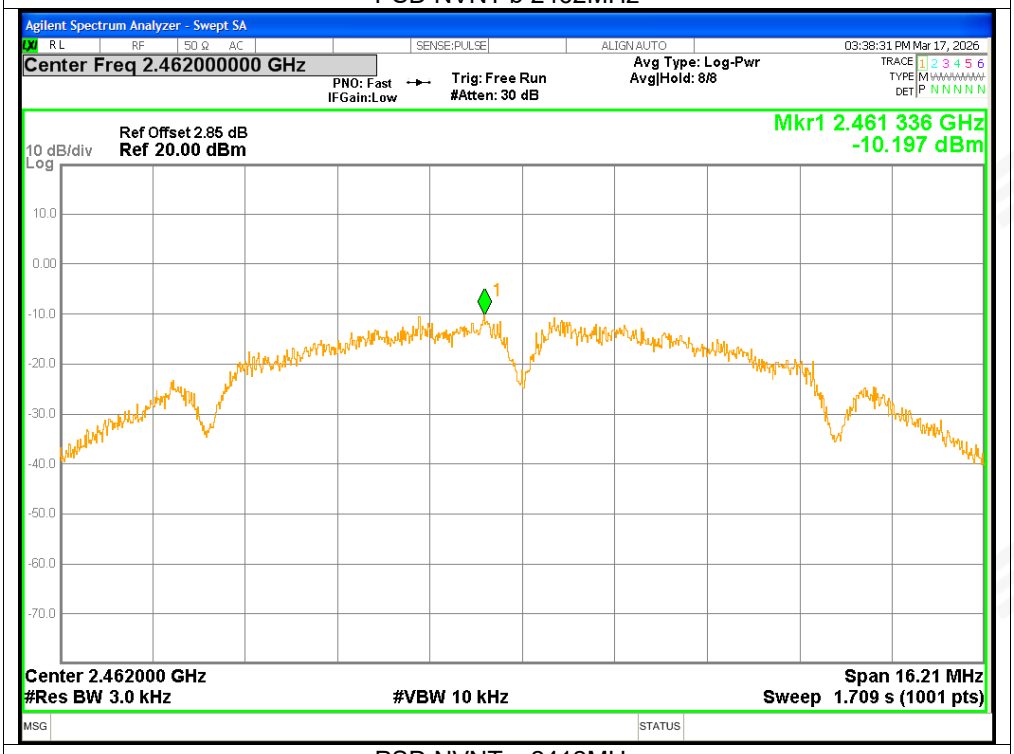
PSD NVNT b 2412MHz



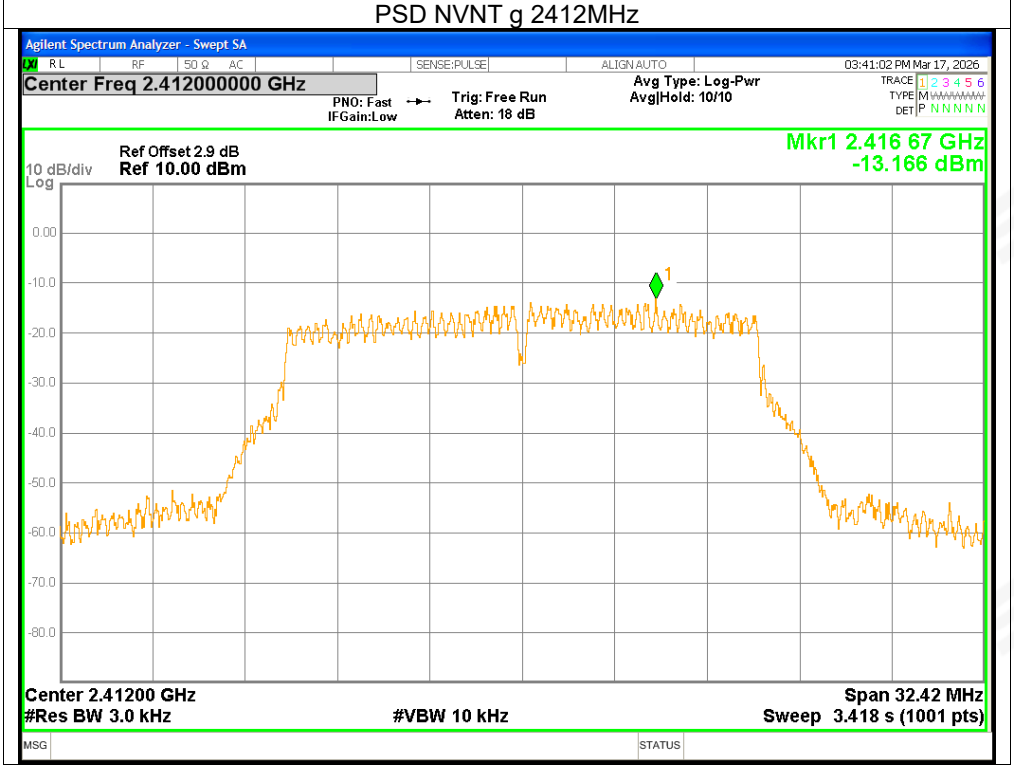
PSD NVNT b 2437MHz



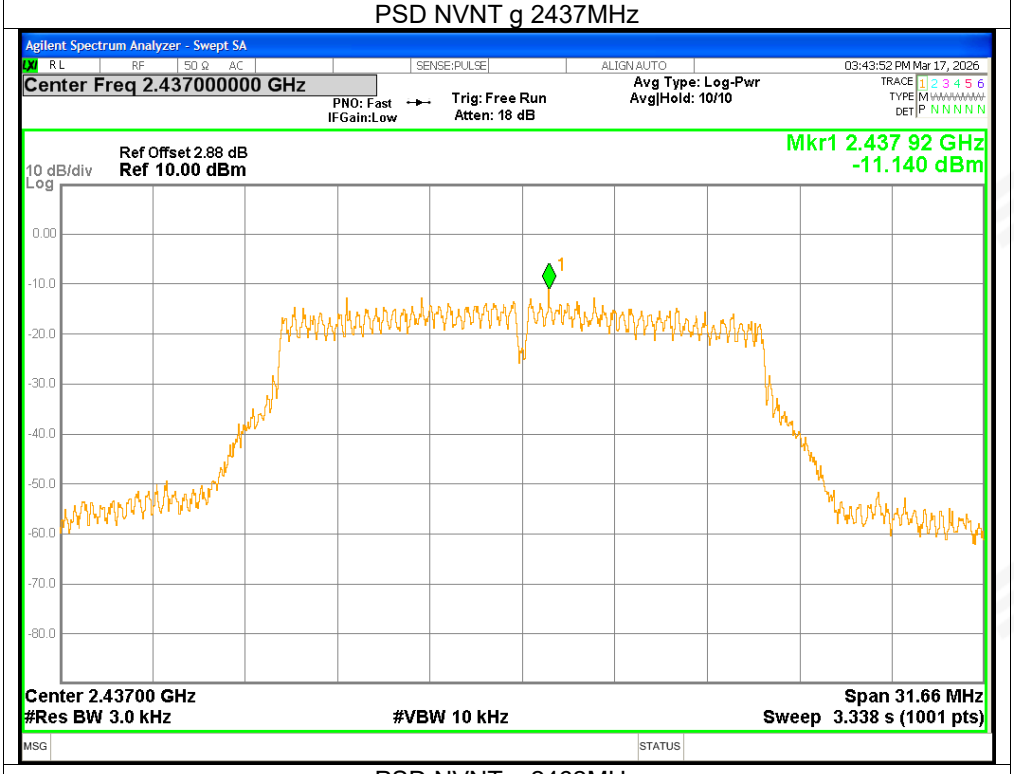
PSD NVNT b 2462MHz



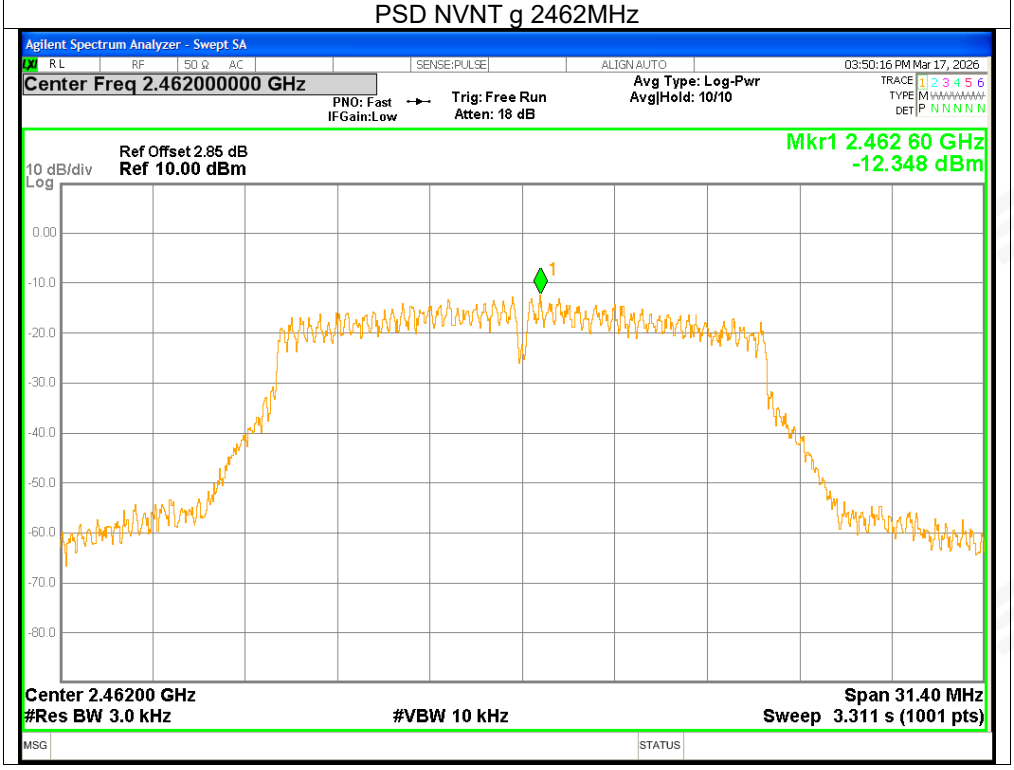
PSD NVNT g 2412MHz



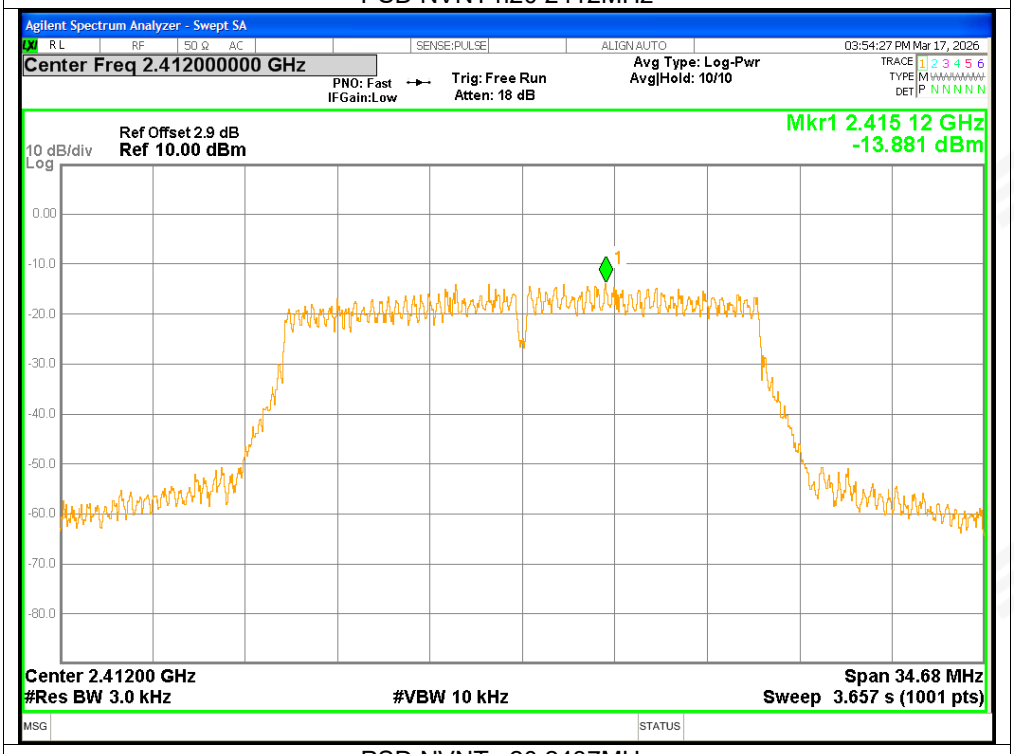
PSD NVNT g 2437MHz



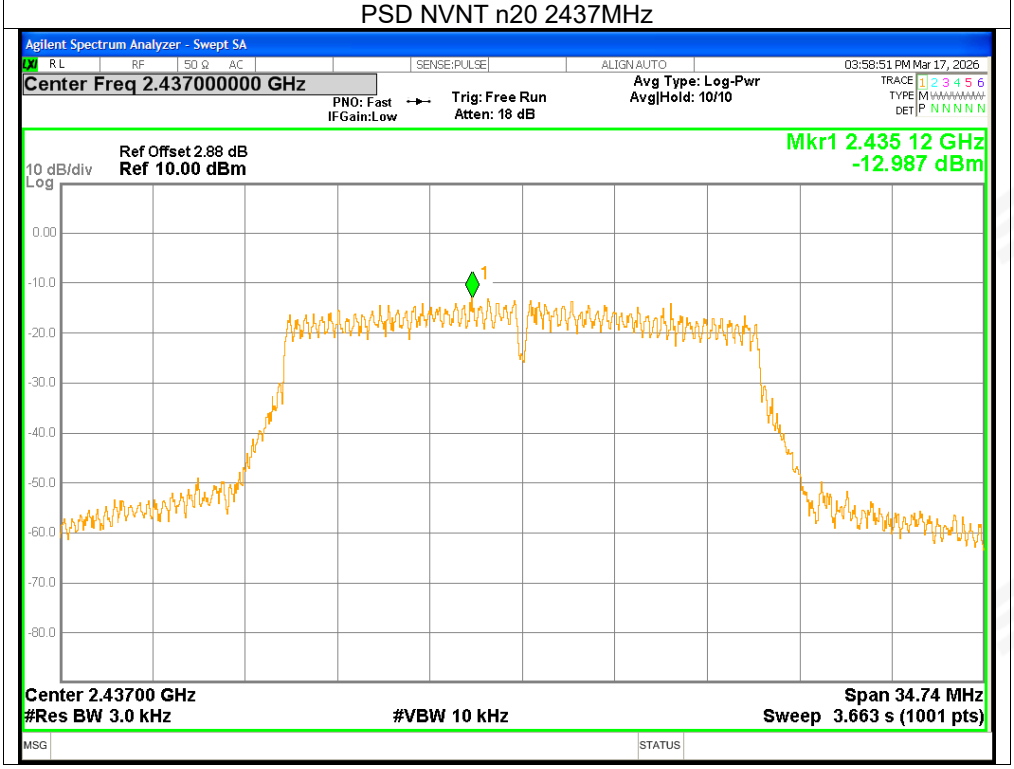
PSD NVNT g 2462MHz



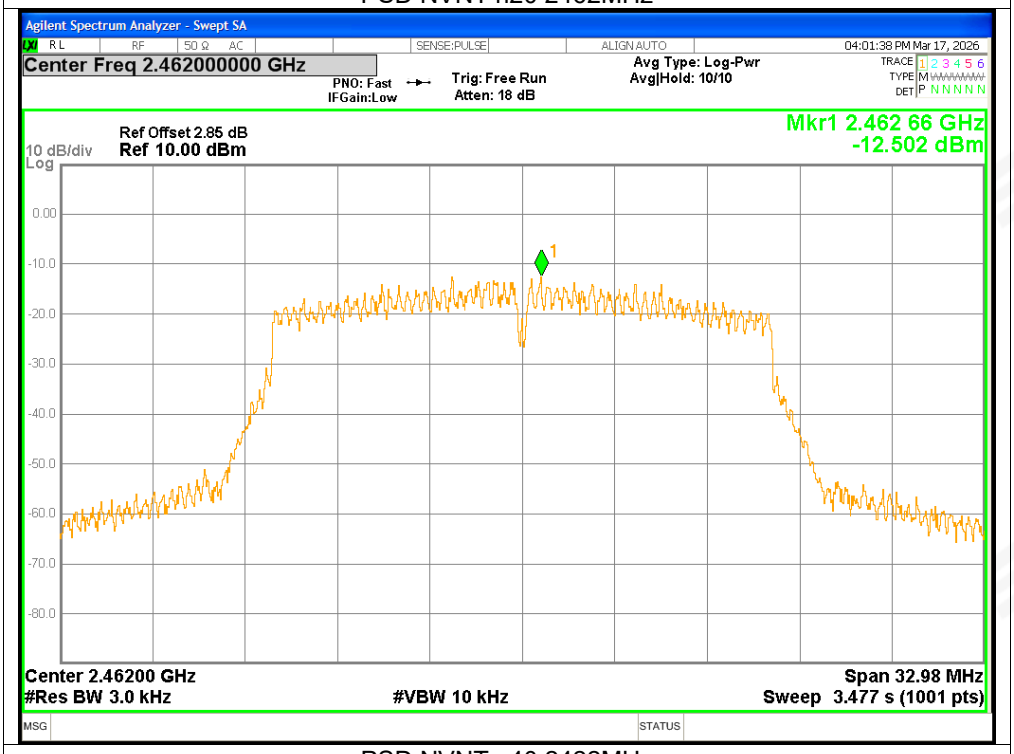
PSD NVNT n20 2412MHz



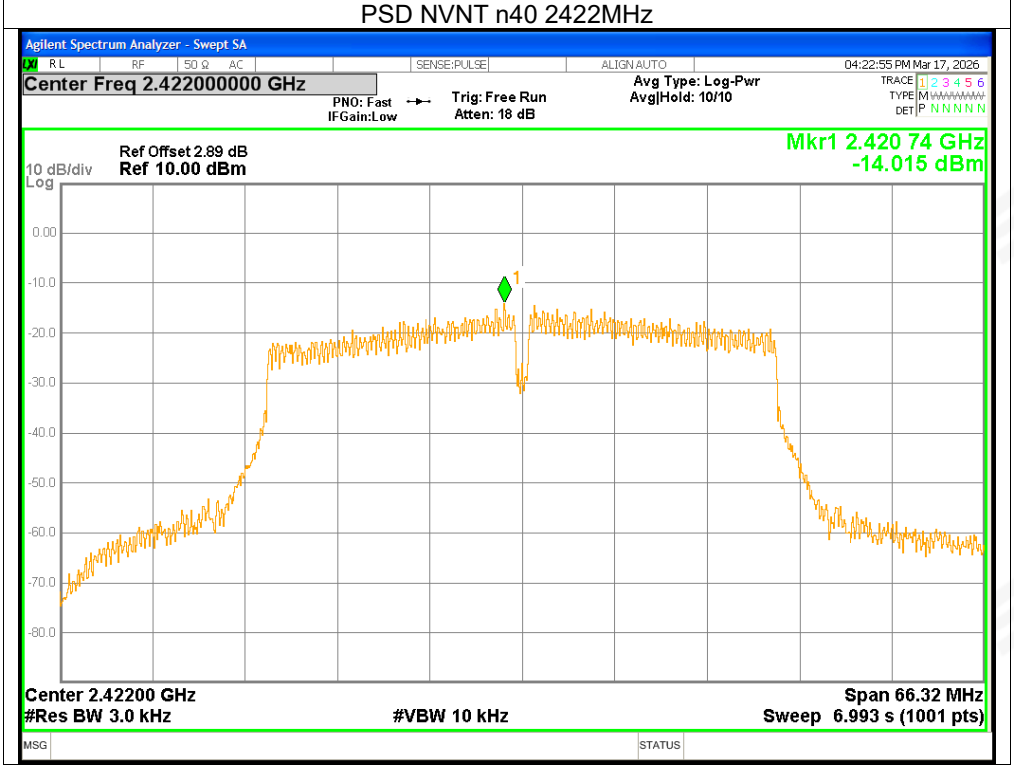
PSD NVNT n20 2437MHz



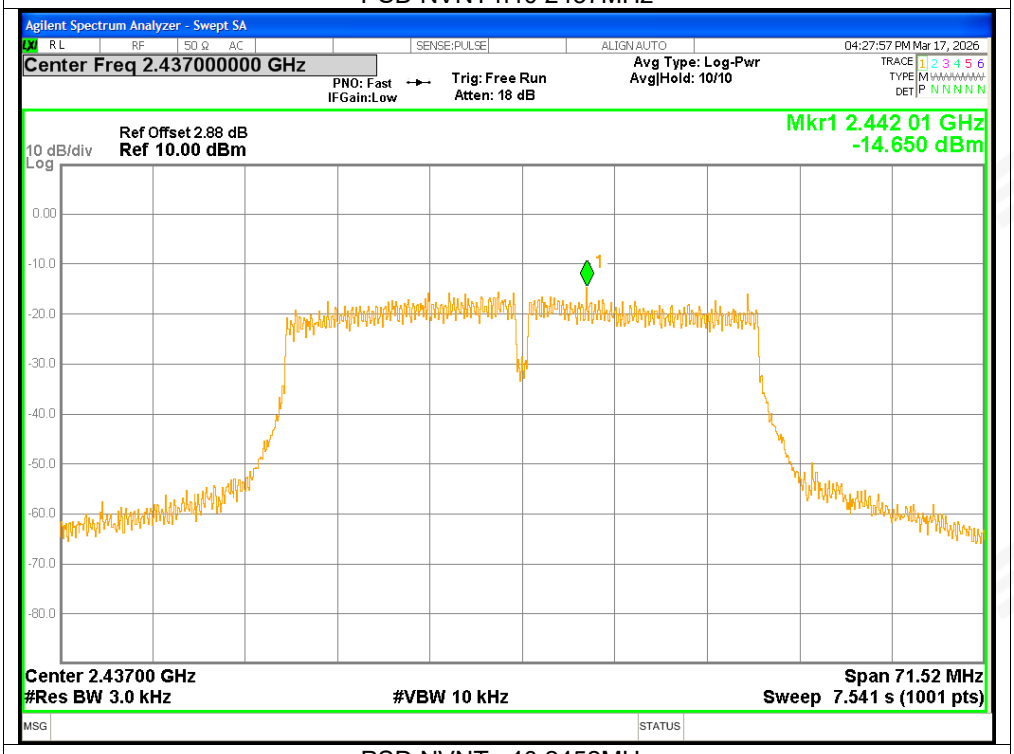
PSD NVNT n20 2462MHz



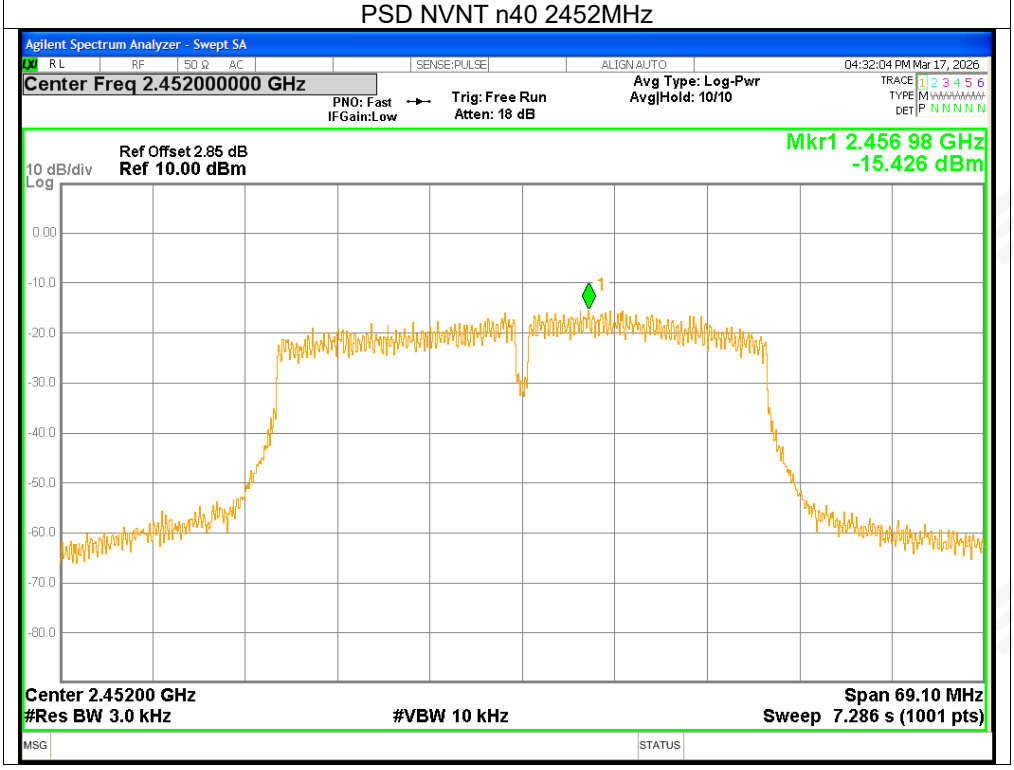
PSD NVNT n40 2422MHz



PSD NVNT n40 2437MHz



PSD NVNT n40 2452MHz

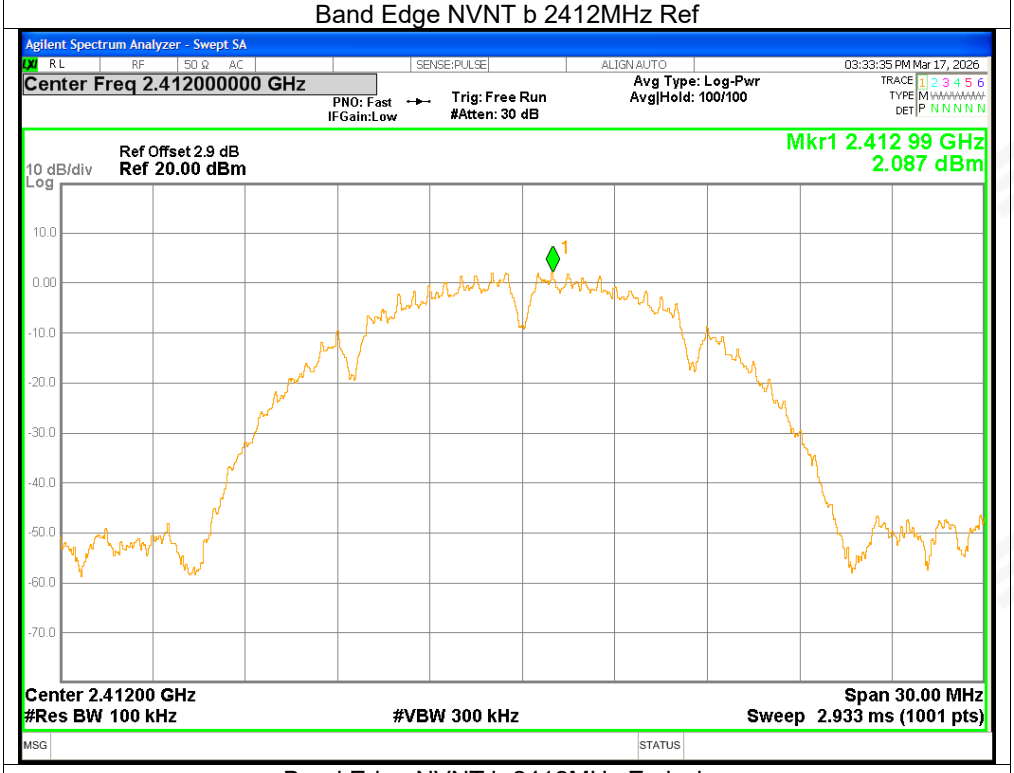


Band Edge

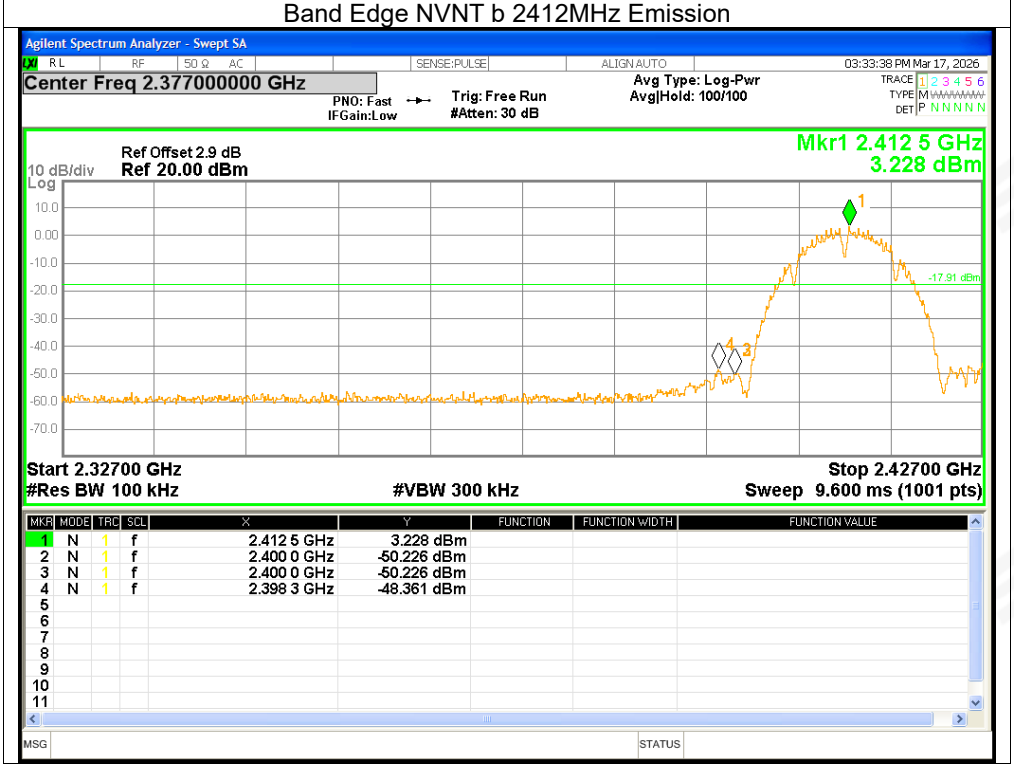
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-50.45	<=-20	Pass
NVNT	b	2462	-59.65	<=-20	Pass
NVNT	g	2412	-38.45	<=-20	Pass
NVNT	g	2462	-52.8	<=-20	Pass
NVNT	n20	2412	-38.1	<=-20	Pass
NVNT	n20	2462	-50.08	<=-20	Pass
NVNT	n40	2422	-38.4	<=-20	Pass
NVNT	n40	2452	-38.58	<=-20	Pass

Test Graphs

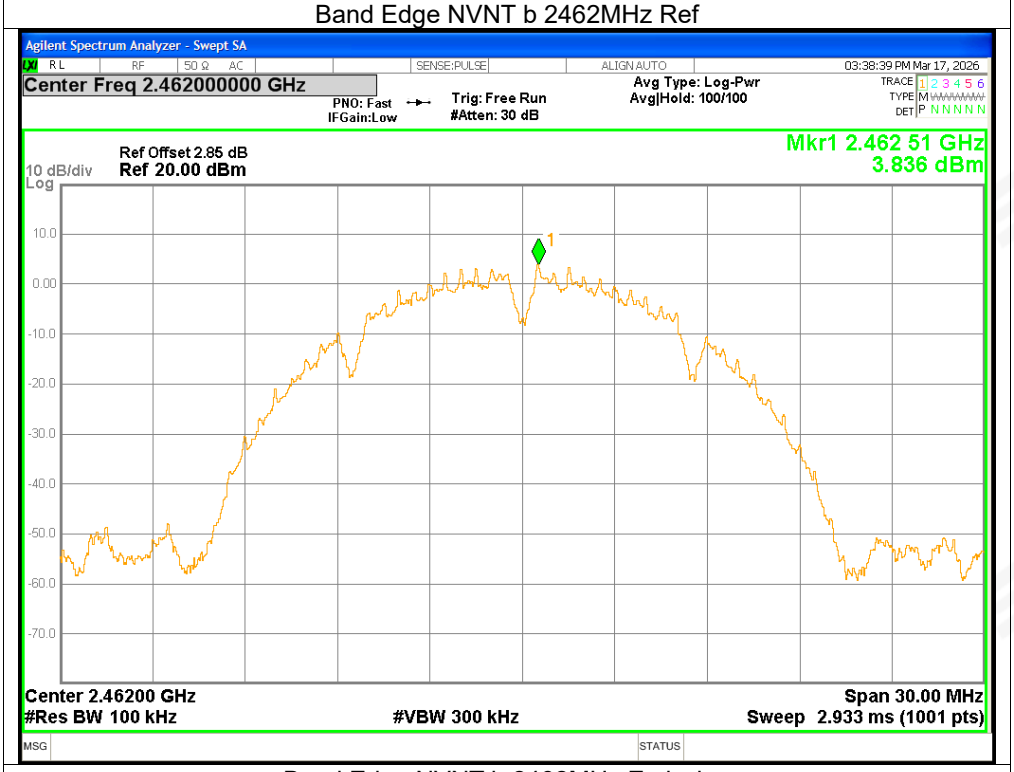
Band Edge NVNT b 2412MHz Ref



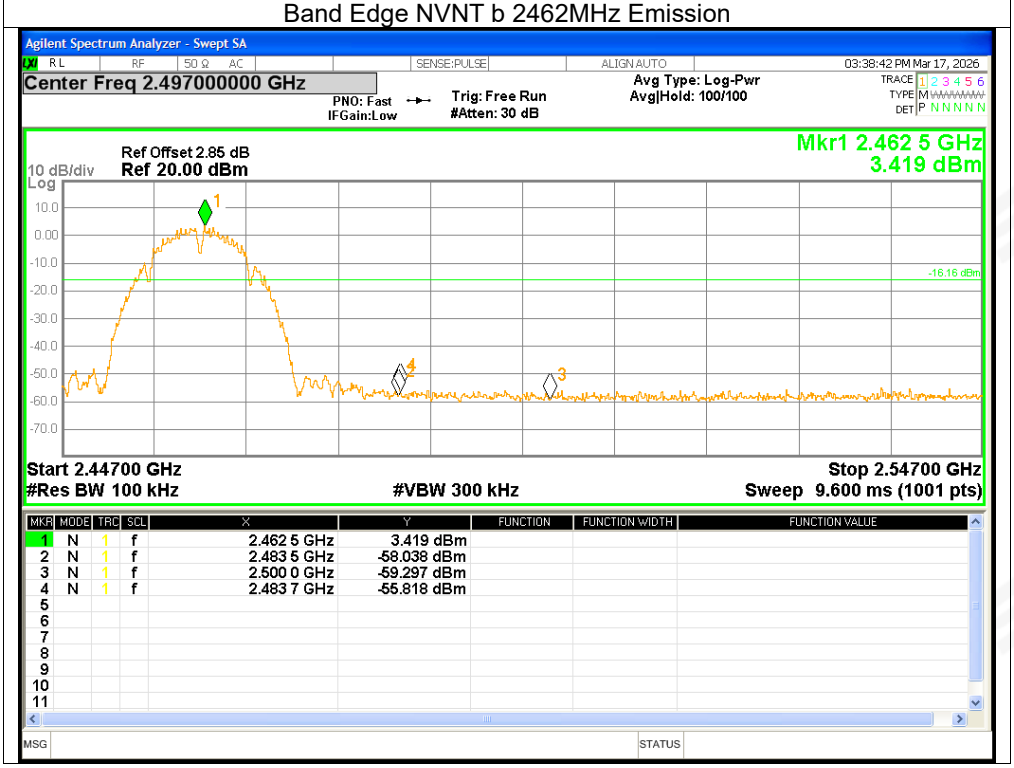
Band Edge NVNT b 2412MHz Emission



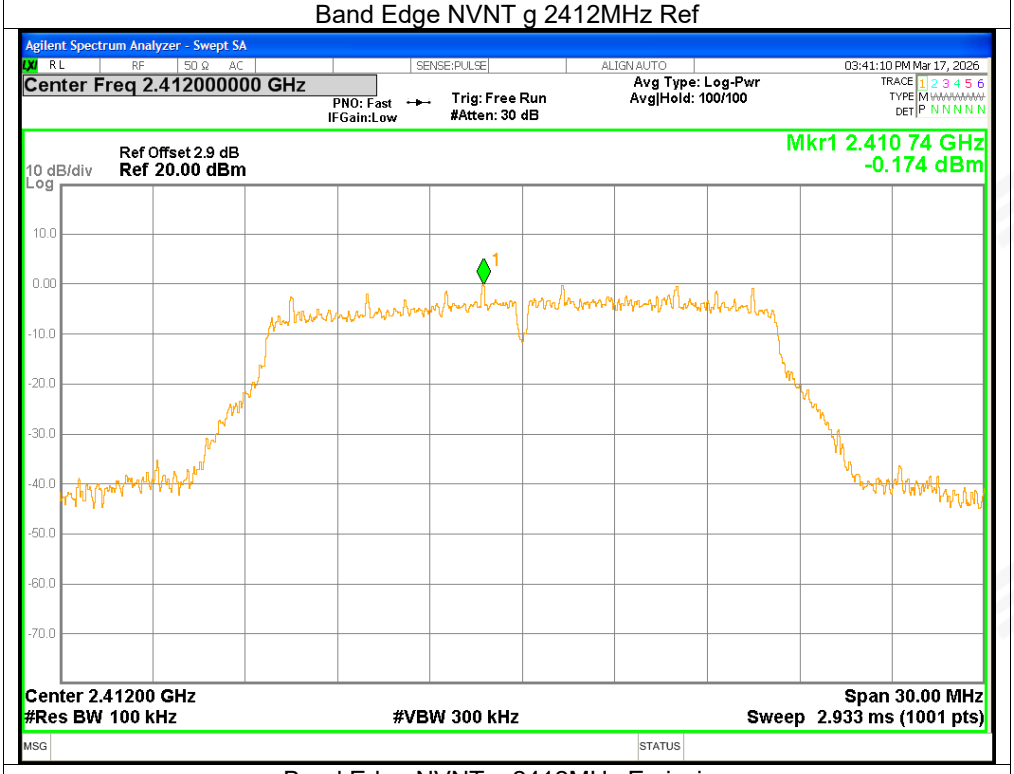
Band Edge NVNT b 2462MHz Ref



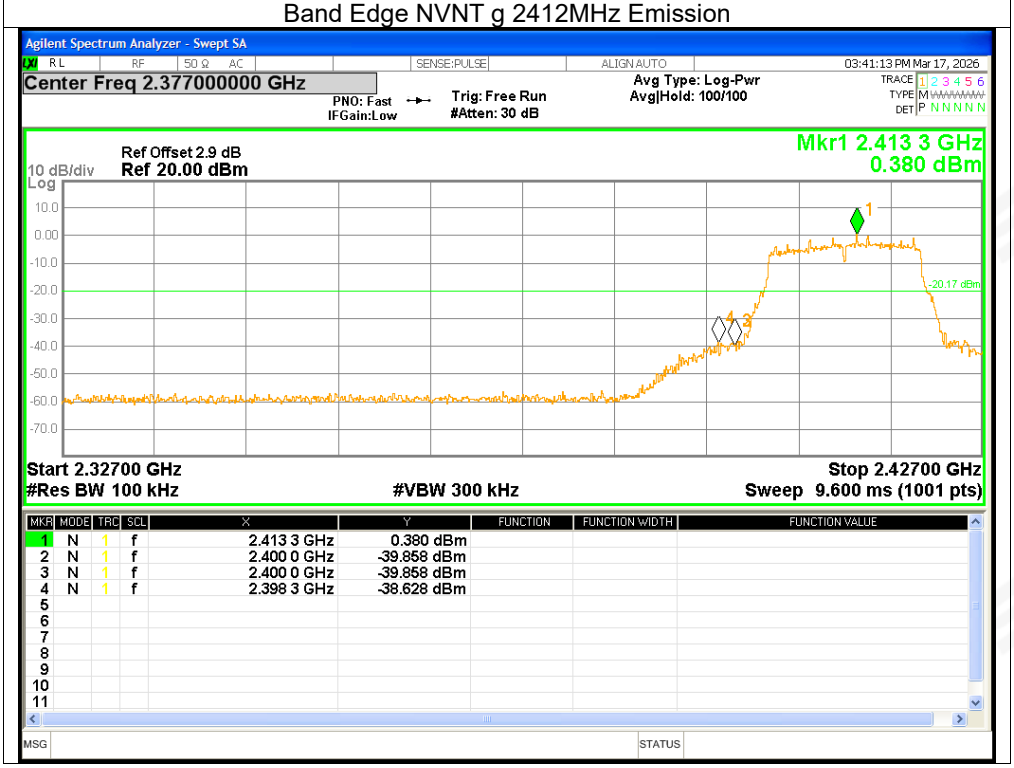
Band Edge NVNT b 2462MHz Emission



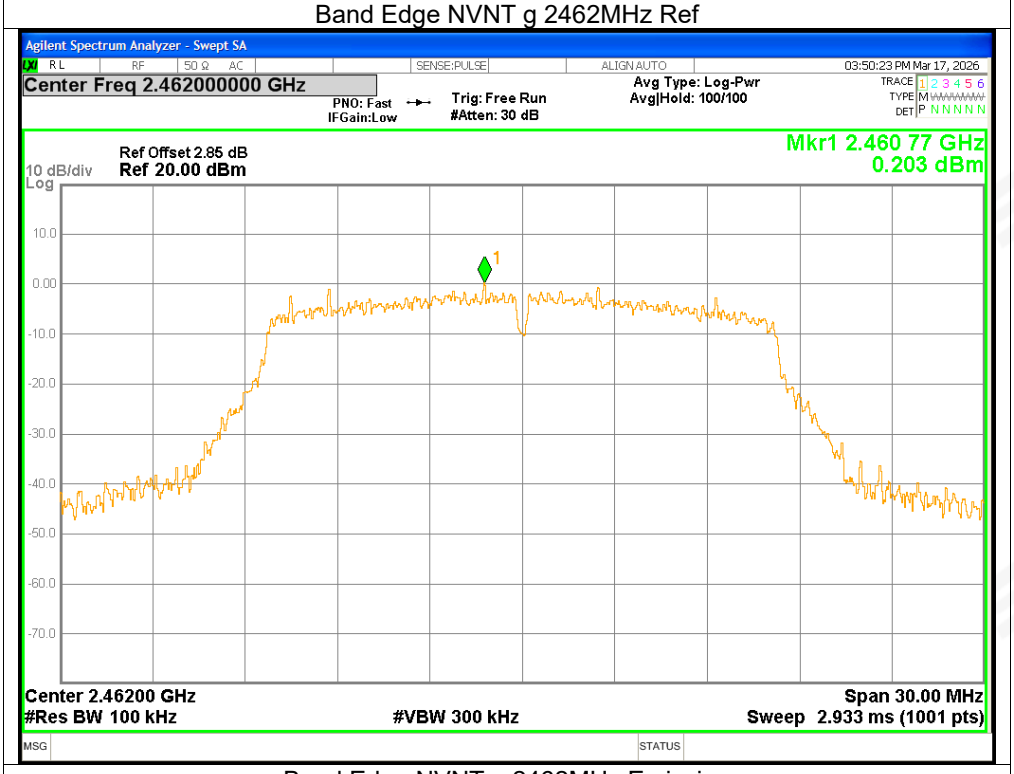
Band Edge NVNT g 2412MHz Ref



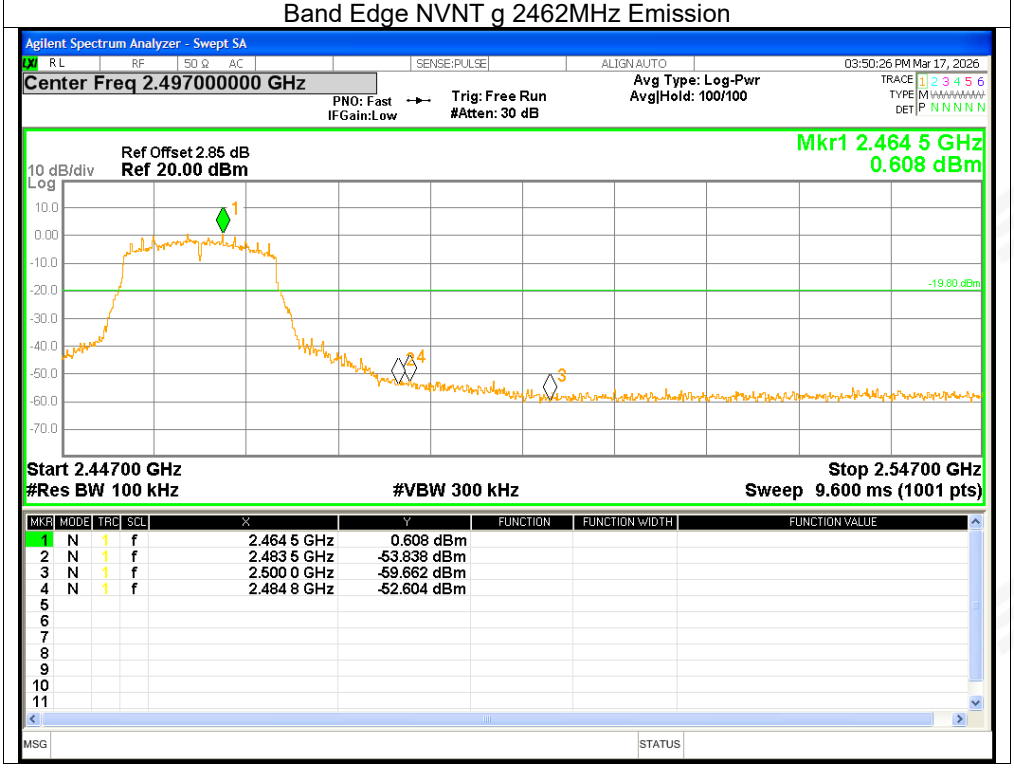
Band Edge NVNT g 2412MHz Emission



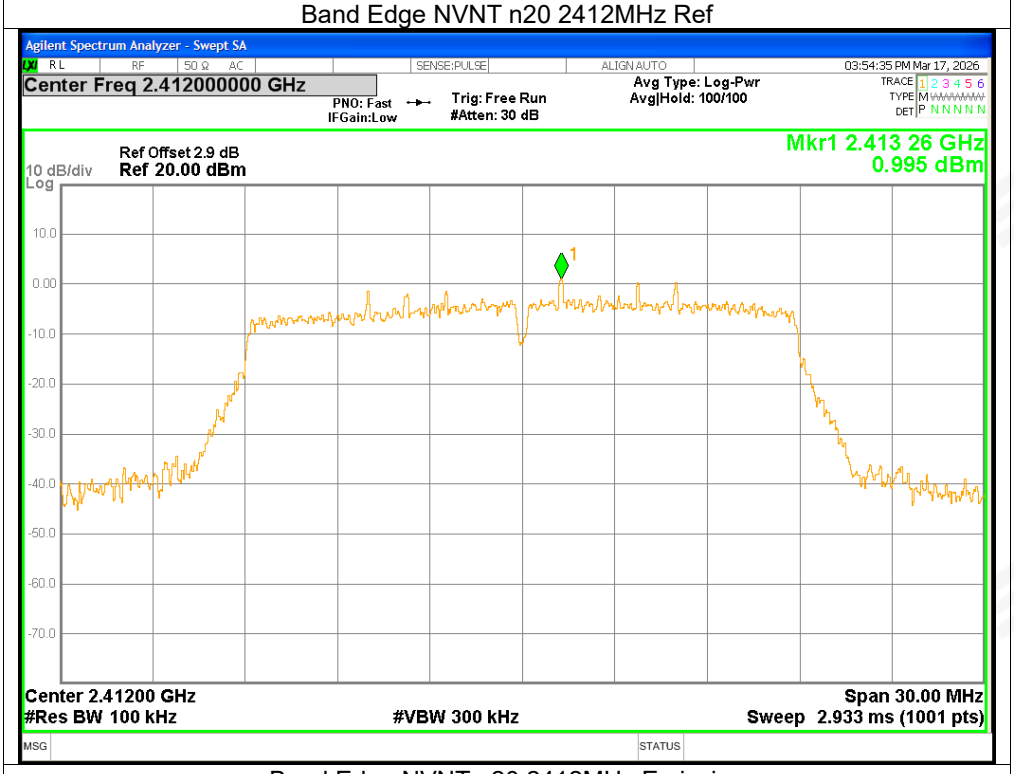
Band Edge NVNT g 2462MHz Ref



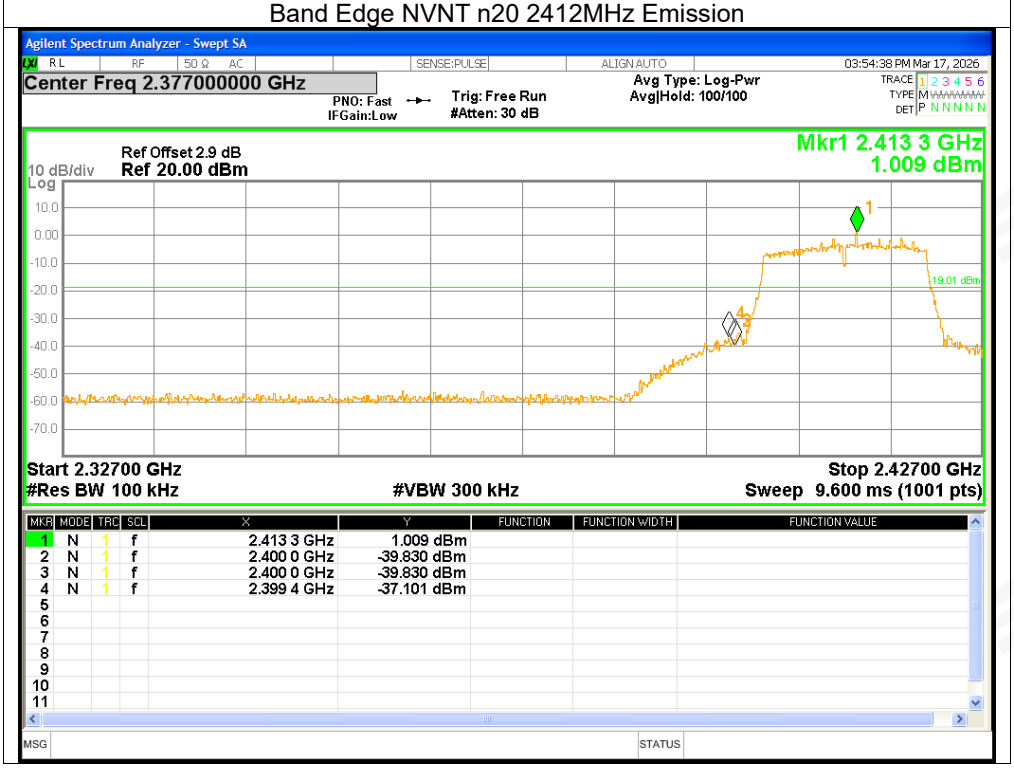
Band Edge NVNT g 2462MHz Emission



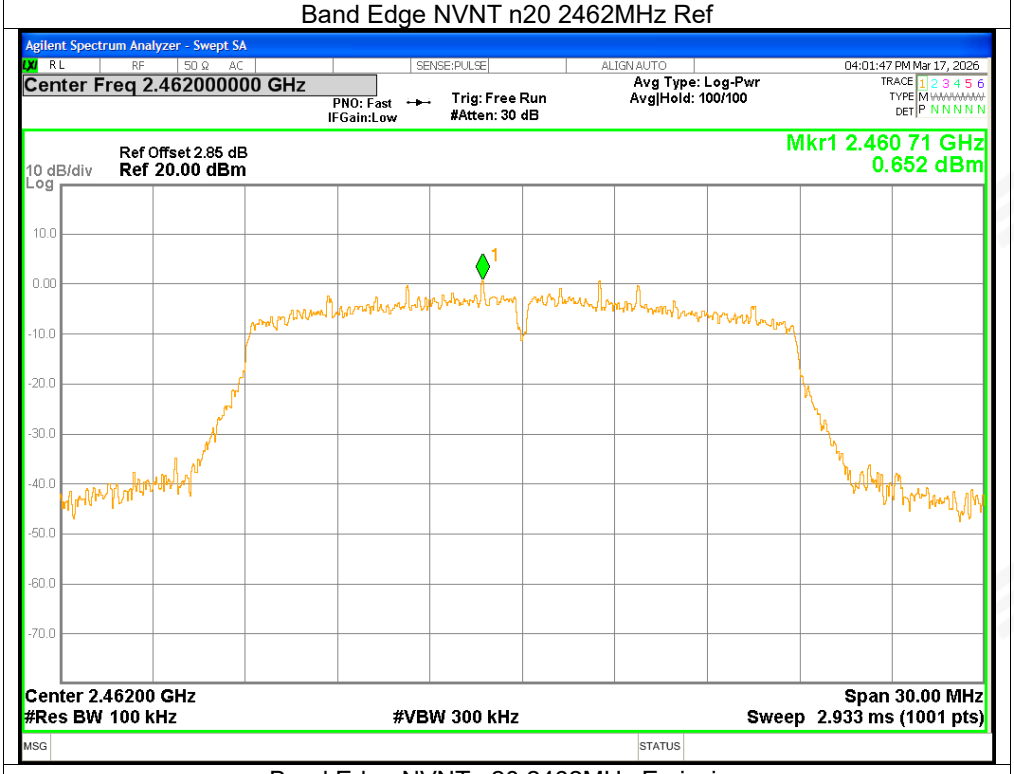
Band Edge NVNT n20 2412MHz Ref



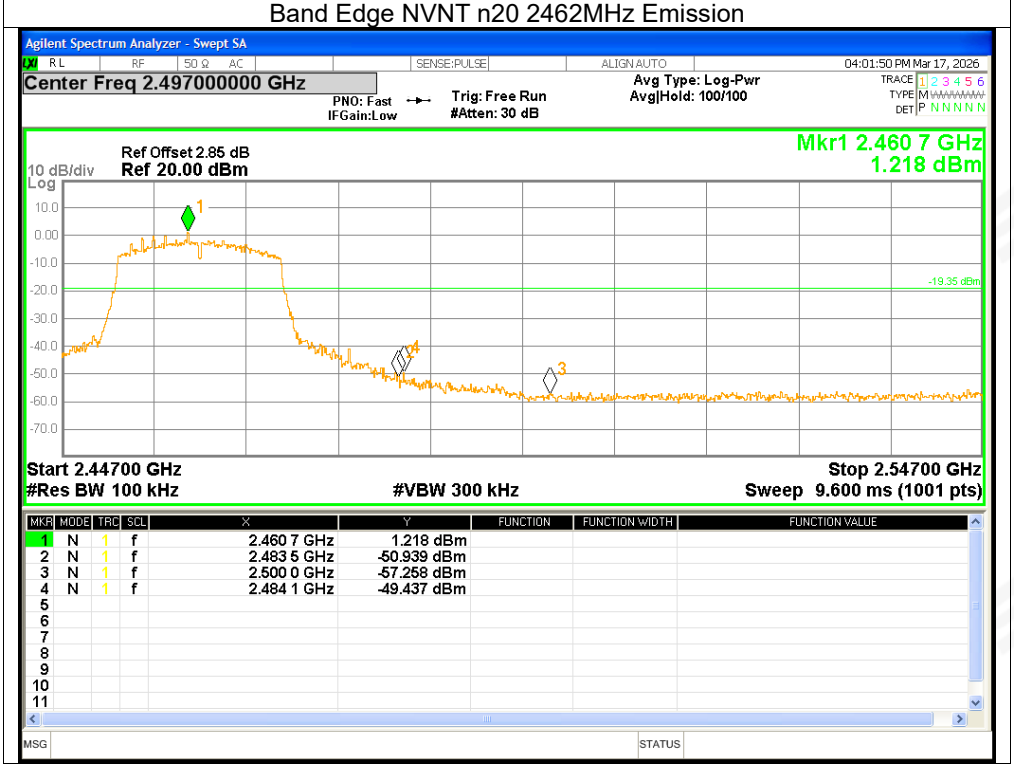
Band Edge NVNT n20 2412MHz Emission



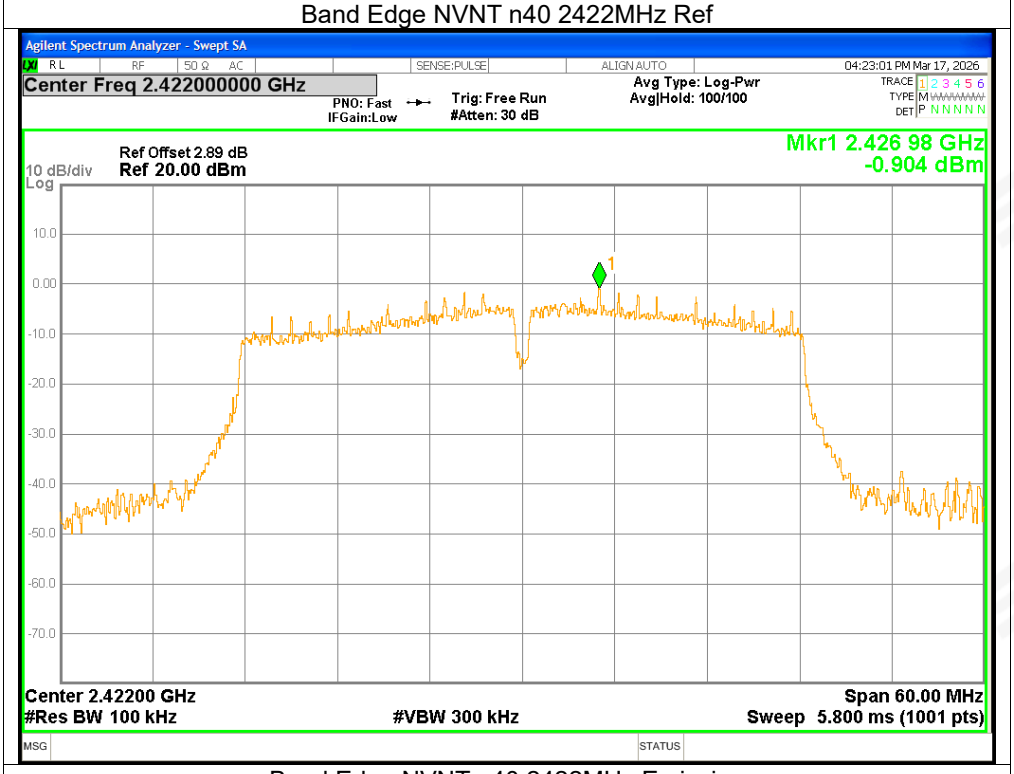
Band Edge NVNT n20 2462MHz Ref



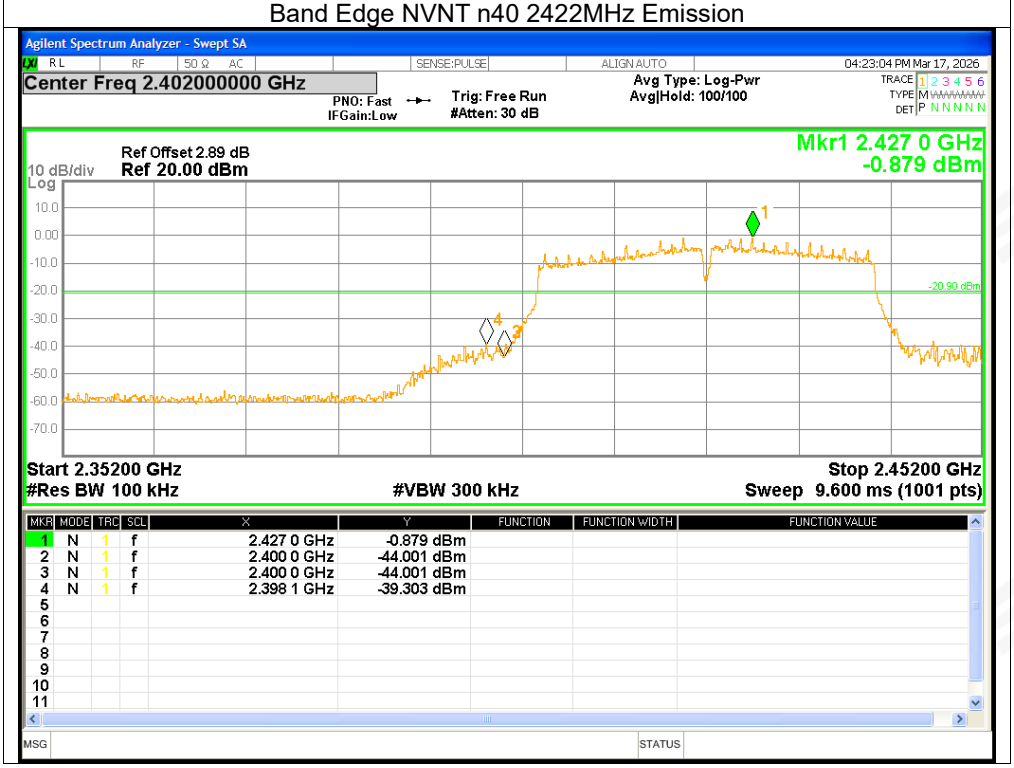
Band Edge NVNT n20 2462MHz Emission



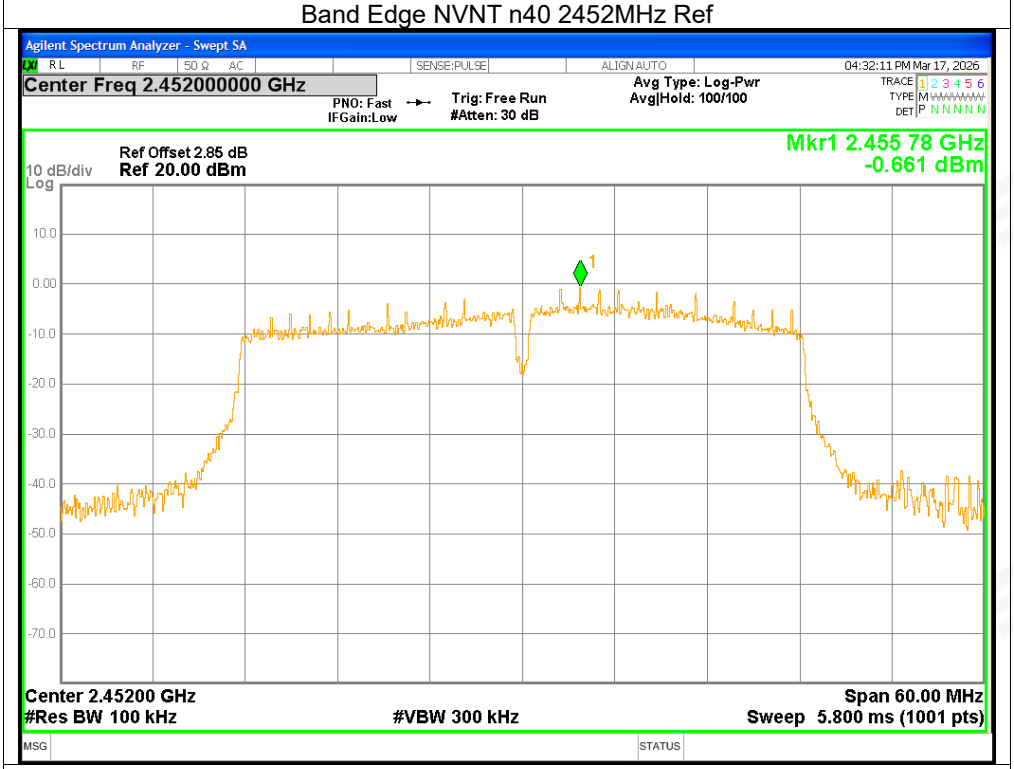
Band Edge NVNT n40 2422MHz Ref



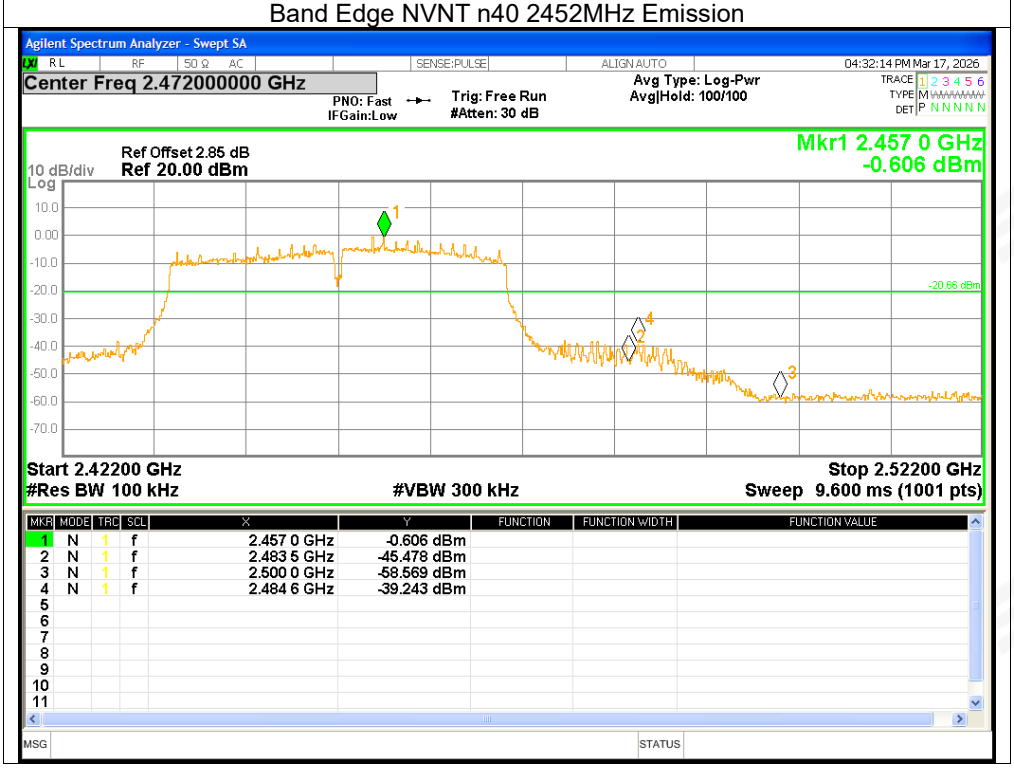
Band Edge NVNT n40 2422MHz Emission



Band Edge NVNT n40 2452MHz Ref



Band Edge NVNT n40 2452MHz Emission

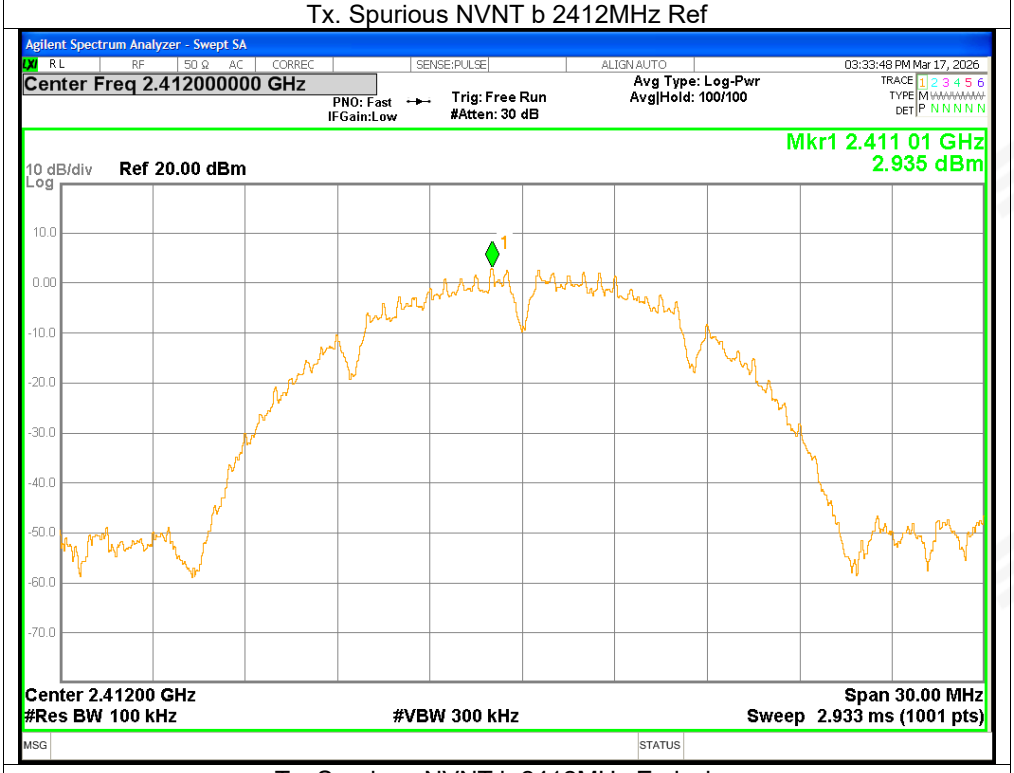


Conducted RF Spurious Emission

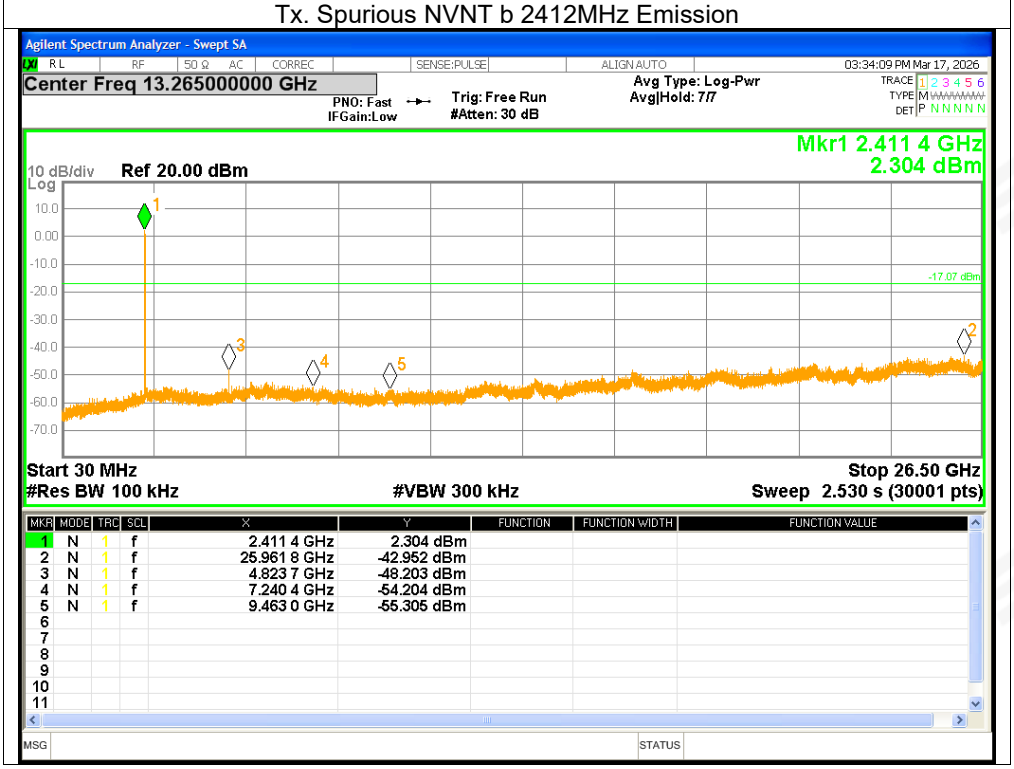
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-45.89	<=-20	Pass
NVNT	b	2437	-46.84	<=-20	Pass
NVNT	b	2462	-46.96	<=-20	Pass
NVNT	g	2412	-43.23	<=-20	Pass
NVNT	g	2437	-43.52	<=-20	Pass
NVNT	g	2462	-44.7	<=-20	Pass
NVNT	n20	2412	-44.21	<=-20	Pass
NVNT	n20	2437	-44.52	<=-20	Pass
NVNT	n20	2462	-43.85	<=-20	Pass
NVNT	n40	2422	-42.36	<=-20	Pass
NVNT	n40	2437	-41.17	<=-20	Pass
NVNT	n40	2452	-42.49	<=-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ref



Tx. Spurious NVNT b 2412MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.411 4 GHz	2.304 dBm			
2	N	1	f	25.961 8 GHz	-42.952 dBm			
3	N	1	f	4.823 7 GHz	-48.203 dBm			
4	N	1	f	7.240 4 GHz	-54.204 dBm			
5	N	1	f	9.463 0 GHz	-55.305 dBm			
6								
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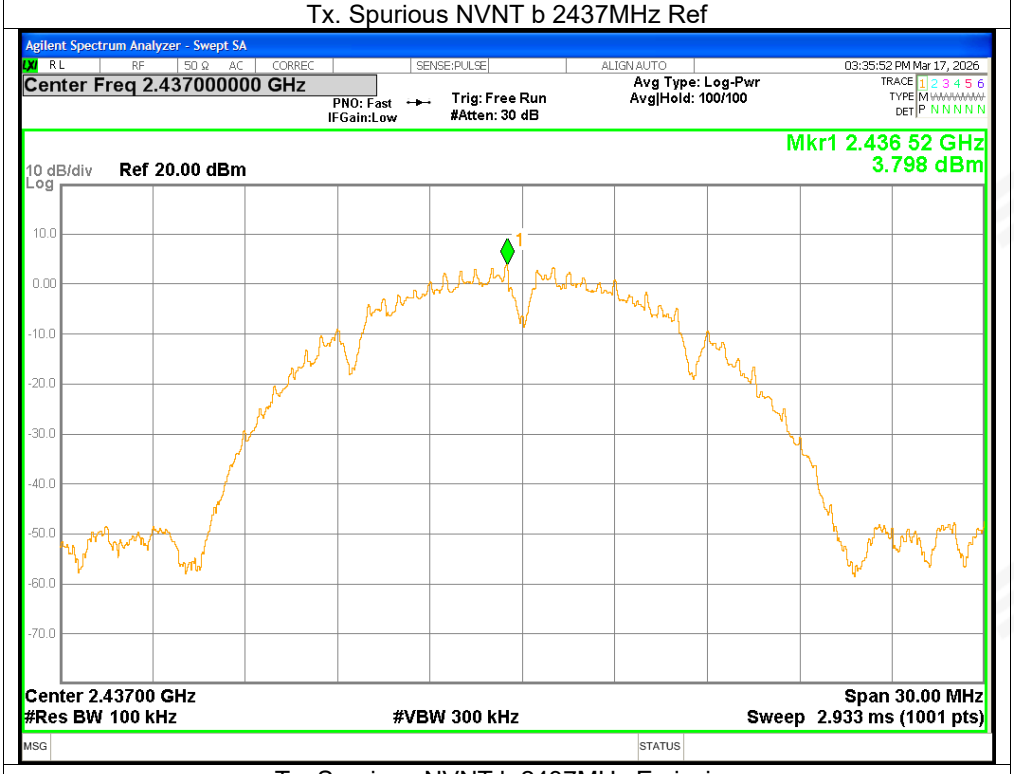
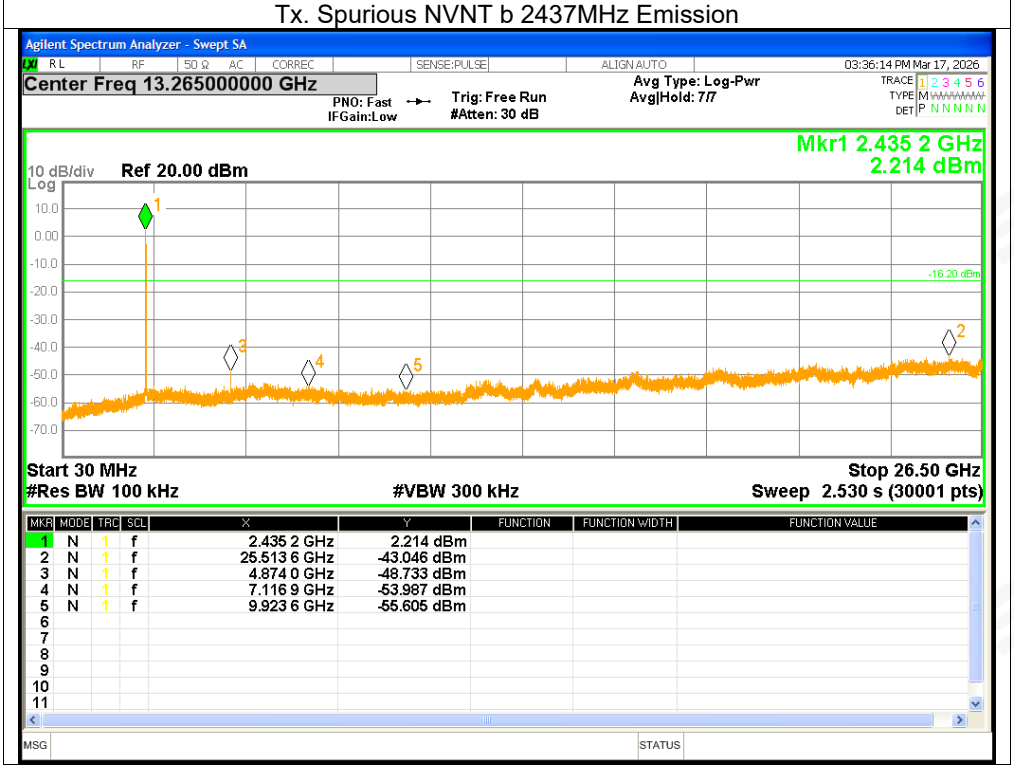
Tx. Spurious NVNT b 2437MHz Ref



Tx. Spurious NVNT b 2437MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.435 2 GHz	2.214 dBm			
2	N	1	f	25.513 6 GHz	-43.046 dBm			
3	N	1	f	4.874 0 GHz	-48.733 dBm			
4	N	1	f	7.116 9 GHz	-53.987 dBm			
5	N	1	f	9.923 6 GHz	-55.605 dBm			
6								
7								
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9								
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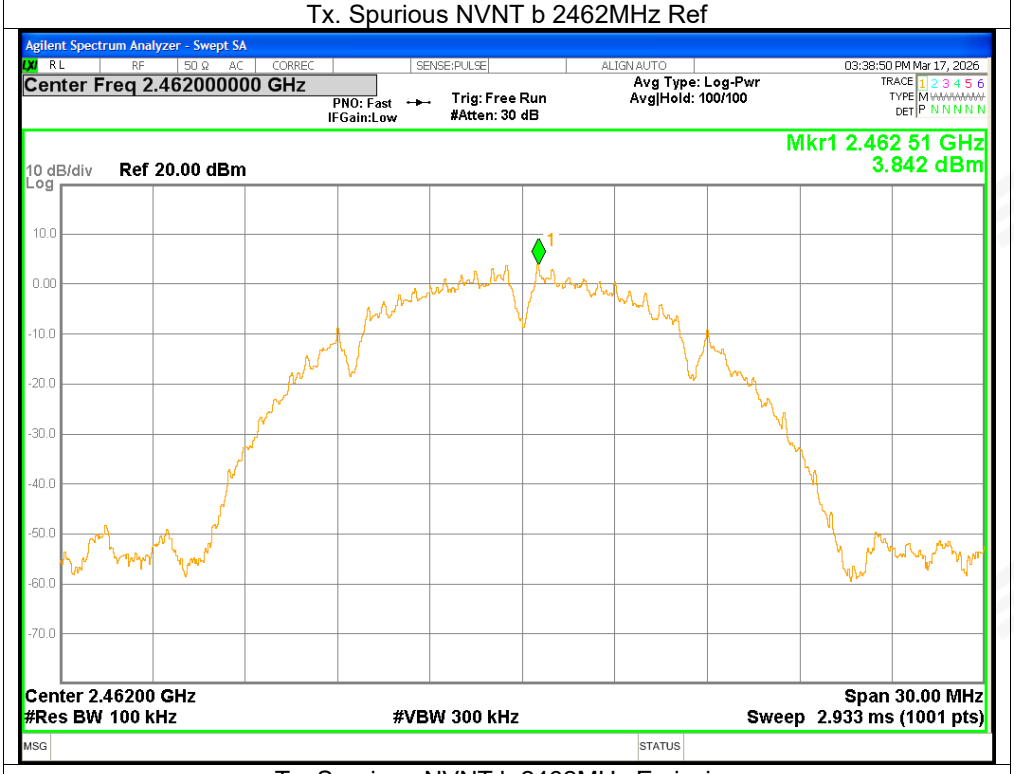
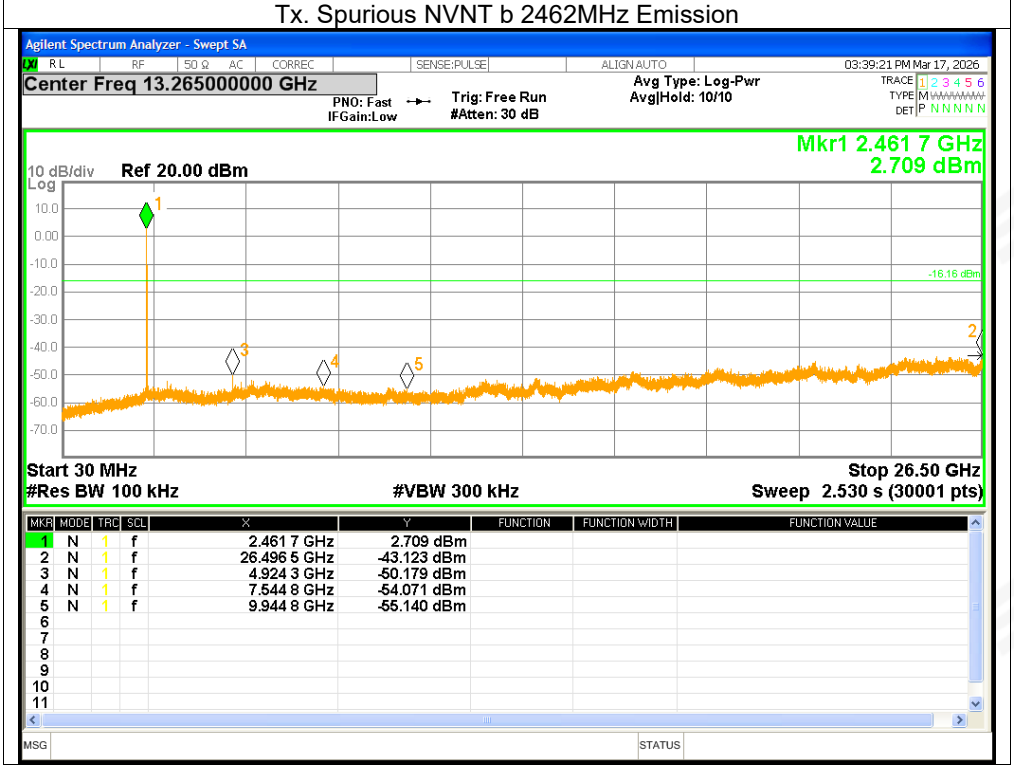
11								

Tx. Spurious NVNT b 2462MHz Ref



Tx. Spurious NVNT b 2462MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.461 7 GHz	2.709 dBm			
2	N	1	f	26.496 5 GHz	-43.123 dBm			
3	N	1	f	4.924 3 GHz	-50.179 dBm			
4	N	1	f	7.544 8 GHz	-54.071 dBm			
5	N	1	f	9.944 8 GHz	-55.140 dBm			
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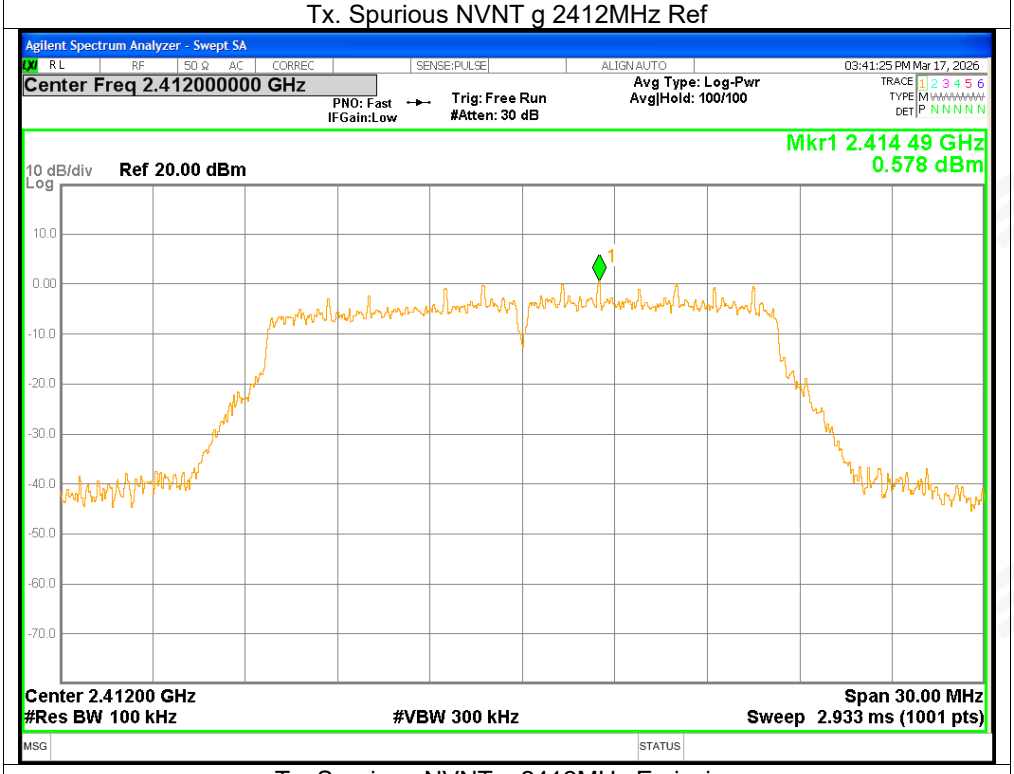
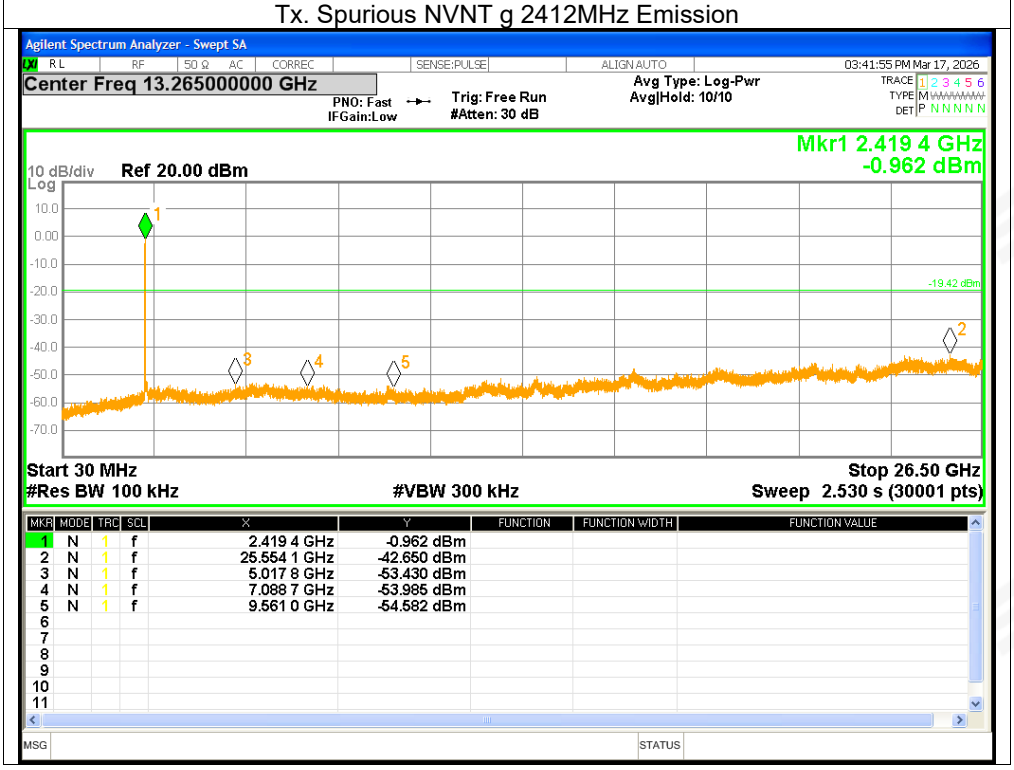
Tx. Spurious NVNT g 2412MHz Ref



Tx. Spurious NVNT g 2412MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.419 4 GHz	-0.962 dBm			
2	N	1	f	25.554 1 GHz	-42.650 dBm			
3	N	1	f	5.017 8 GHz	-53.430 dBm			
4	N	1	f	7.088 7 GHz	-53.985 dBm			
5	N	1	f	9.561 0 GHz	-54.582 dBm			
6								
7								
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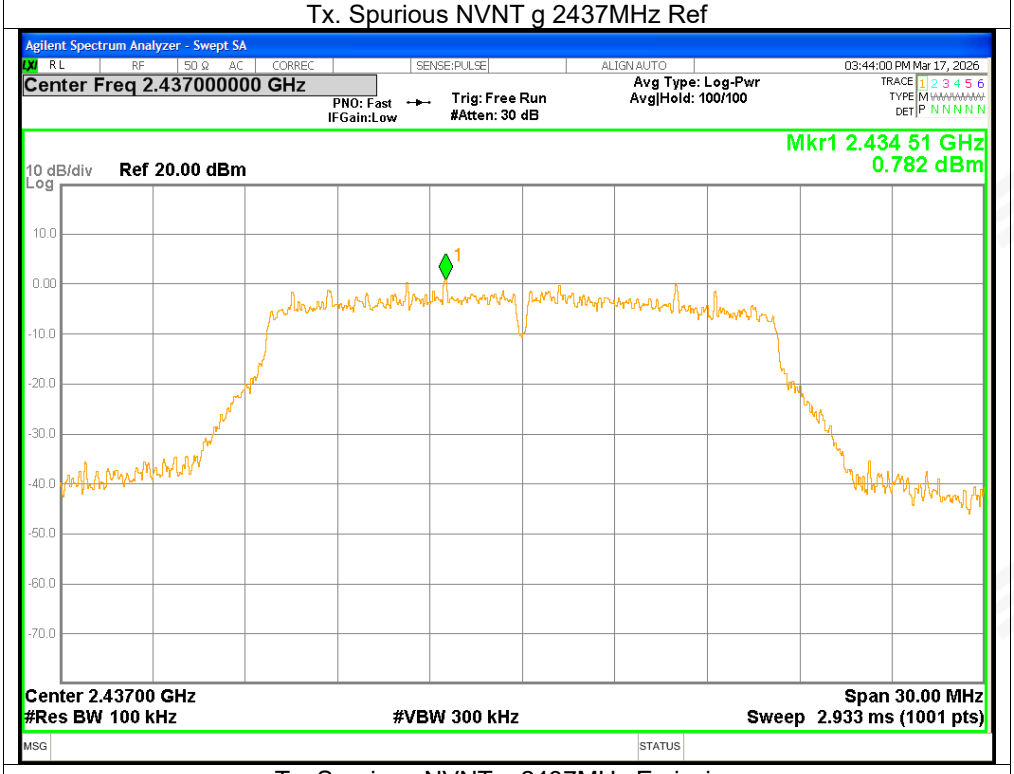
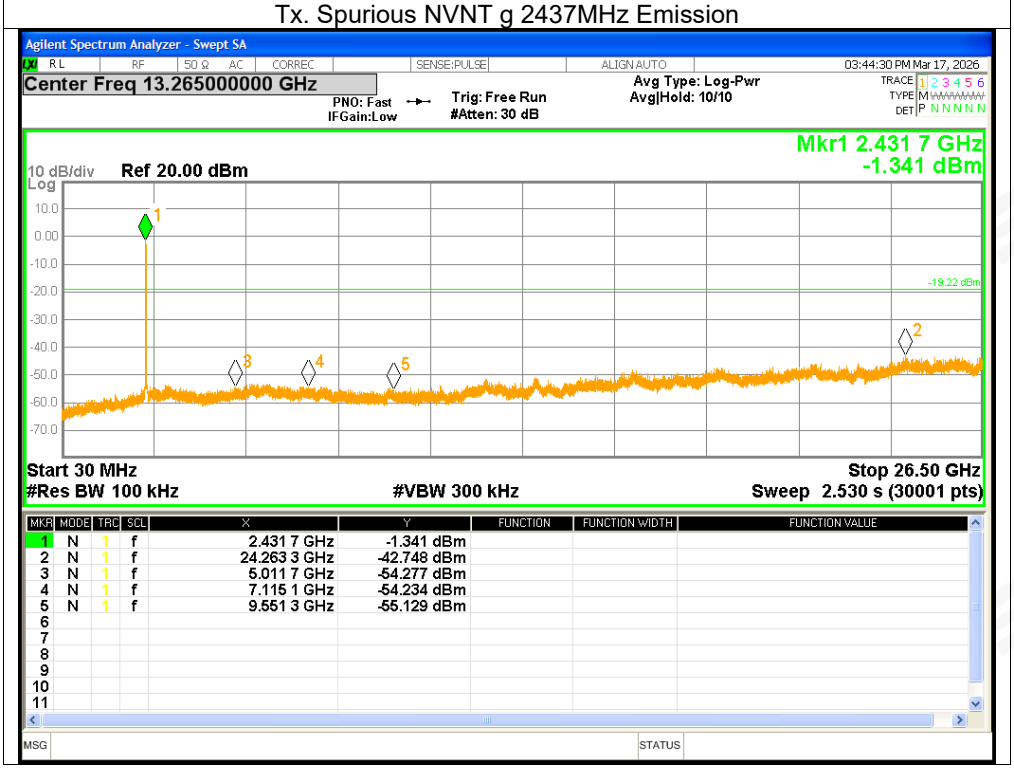
Tx. Spurious NVNT g 2437MHz Ref



Tx. Spurious NVNT g 2437MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.431 7 GHz	-1.341 dBm			
2	N	1	f	24.263 3 GHz	-42.748 dBm			
3	N	1	f	5.011 7 GHz	-54.277 dBm			
4	N	1	f	7.115 1 GHz	-54.234 dBm			
5	N	1	f	9.551 3 GHz	-55.129 dBm			
6								
7								
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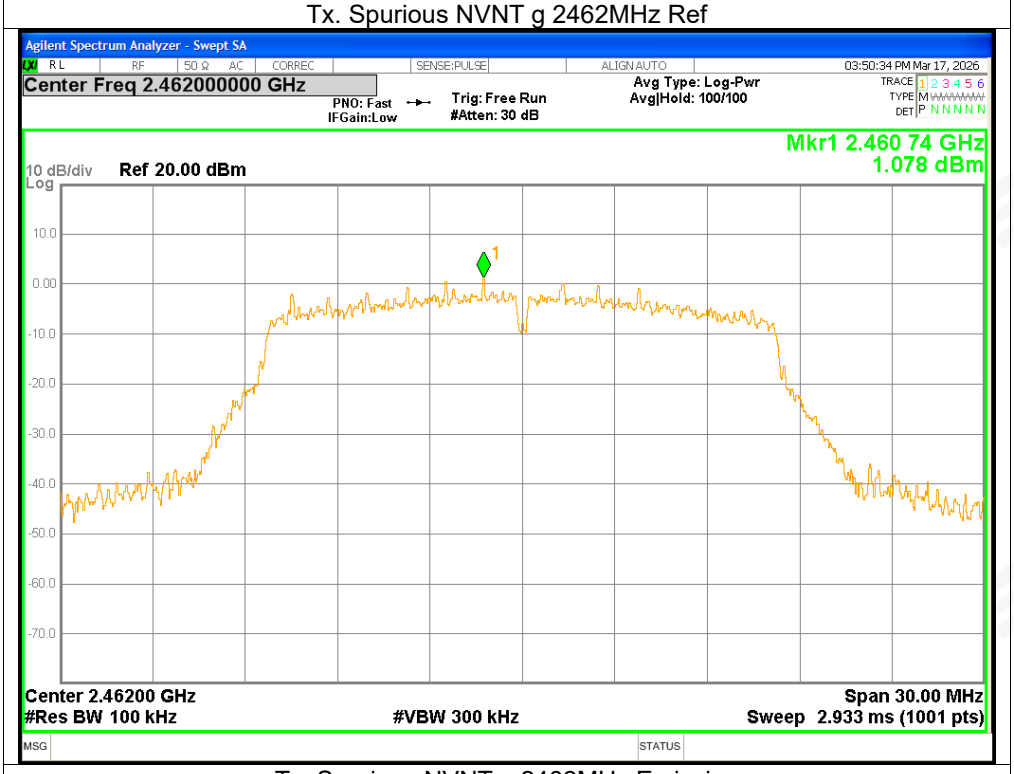
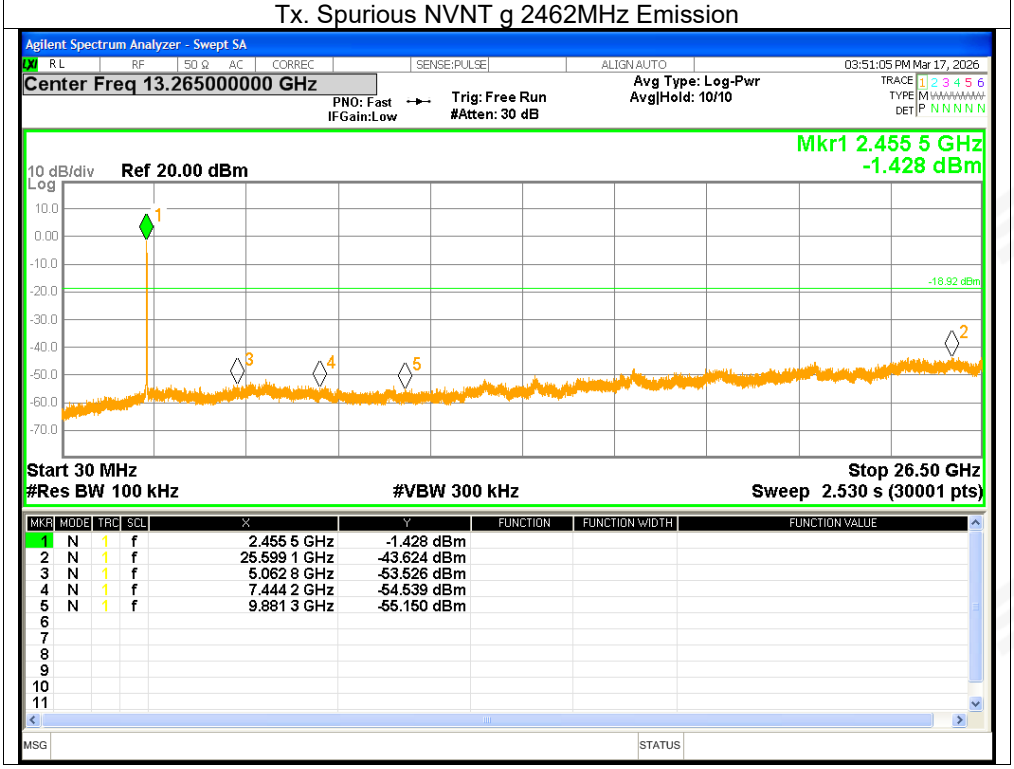
9								
10								
11								

Tx. Spurious NVNT g 2462MHz Ref



Tx. Spurious NVNT g 2462MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.455 5 GHz	-1.428 dBm			
2	N	1	f	25.599 1 GHz	-43.624 dBm			
3	N	1	f	5.062 8 GHz	-53.526 dBm			
4	N	1	f	7.444 2 GHz	-54.539 dBm			
5	N	1	f	9.881 3 GHz	-55.150 dBm			
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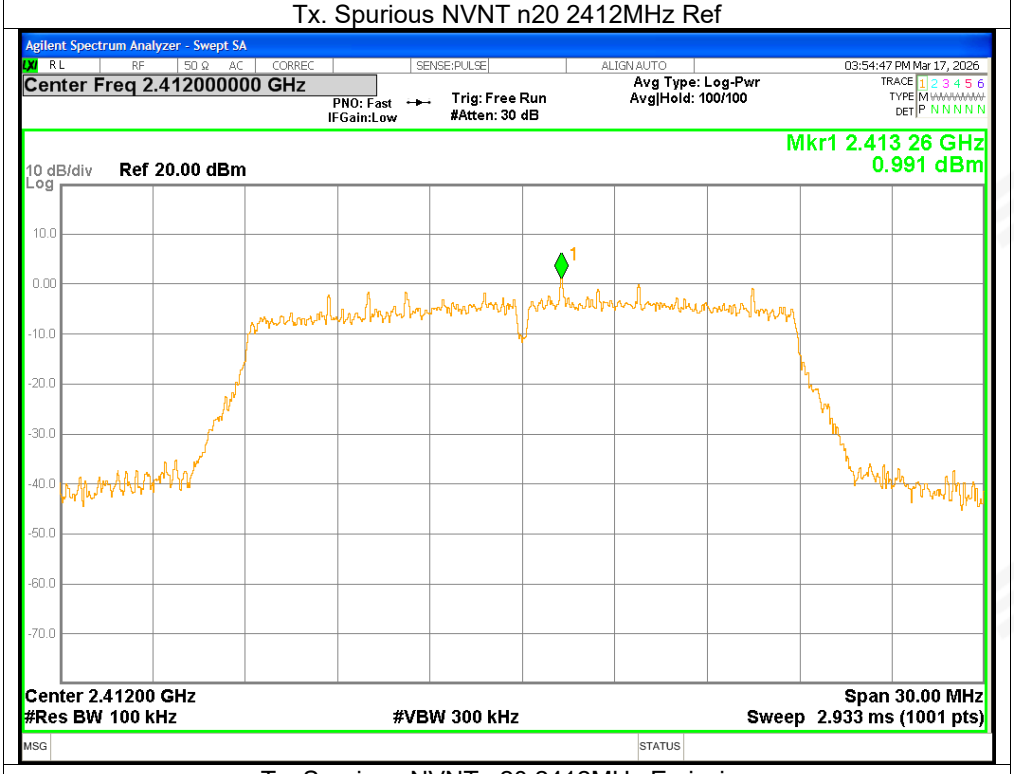
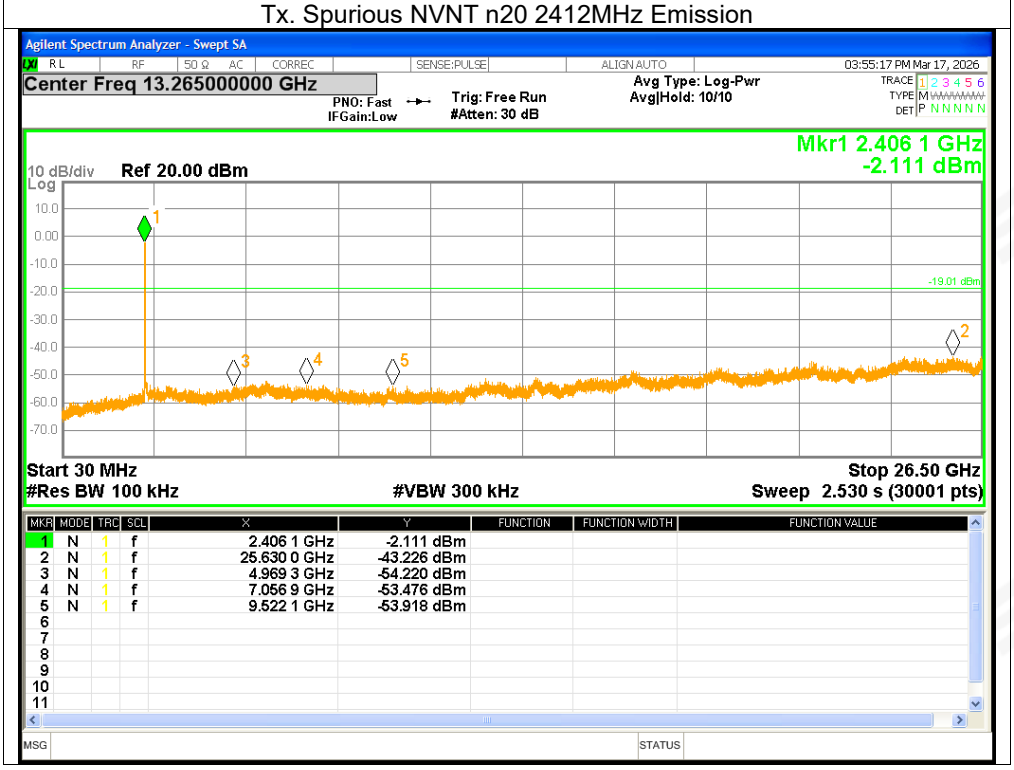
7								
8								
9								
10								
11								

Tx. Spurious NVNT n20 2412MHz Ref



Tx. Spurious NVNT n20 2412MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.406 1 GHz	-2.111 dBm			
2	N	1	f	25.630 0 GHz	-43.226 dBm			
3	N	1	f	4.969 3 GHz	-54.220 dBm			
4	N	1	f	7.056 9 GHz	-53.476 dBm			
5	N	1	f	9.522 1 GHz	-53.918 dBm			
6								
7								
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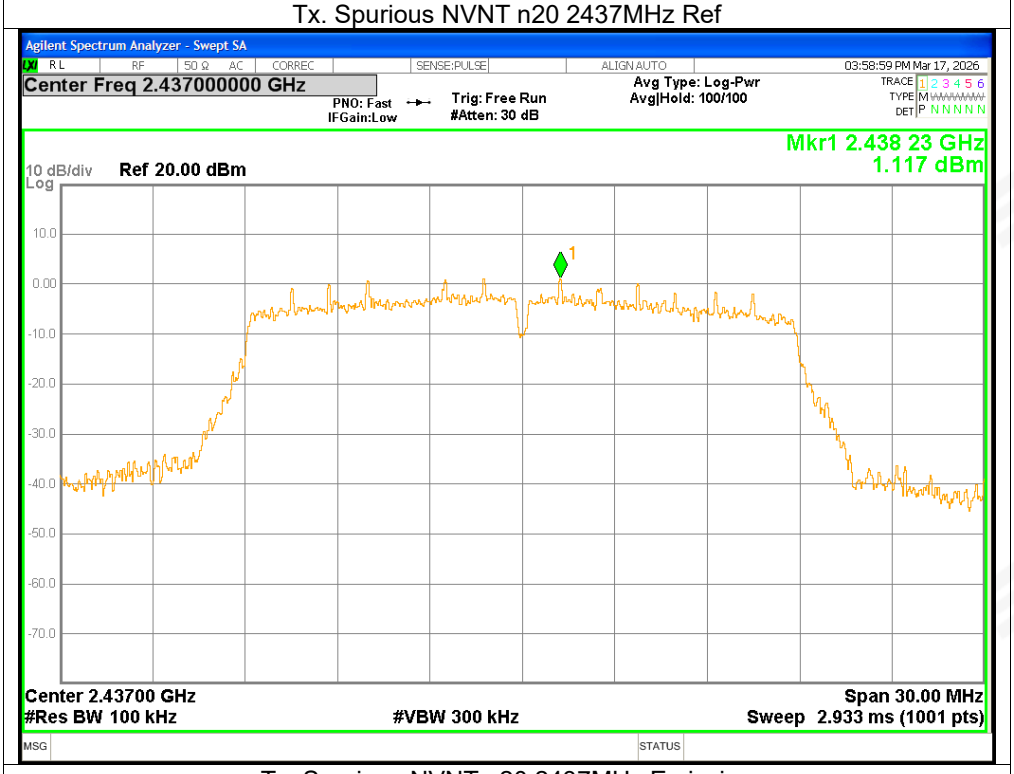
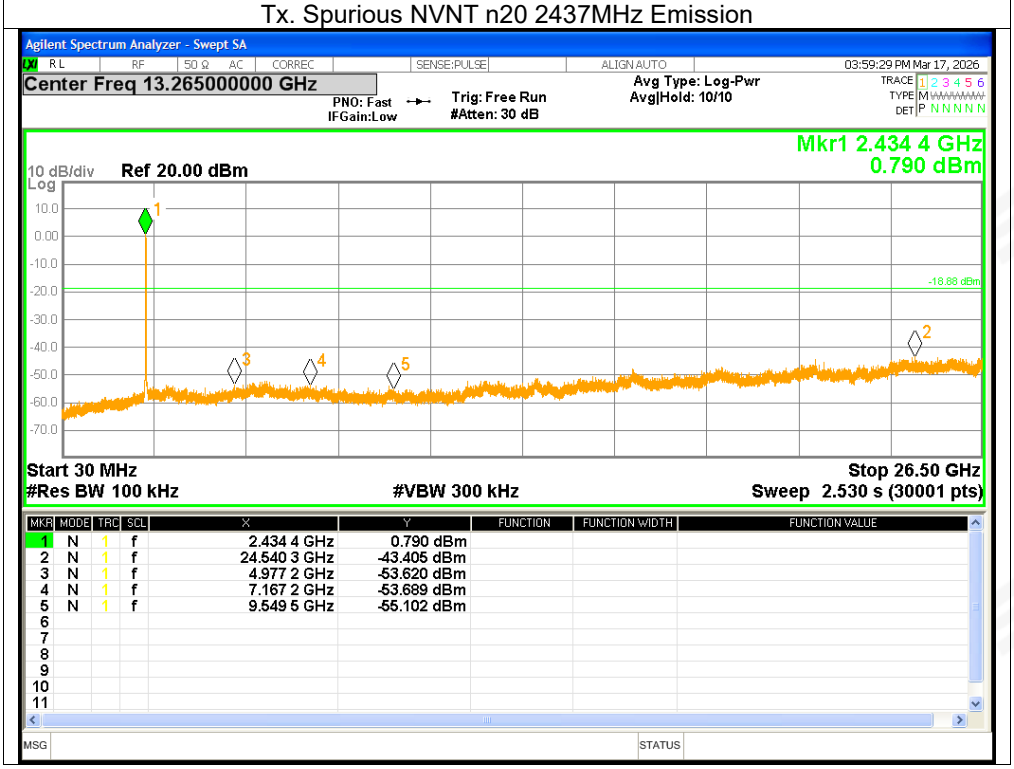
Tx. Spurious NVNT n20 2437MHz Ref



Tx. Spurious NVNT n20 2437MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.434 4 GHz	0.790 dBm			
2	N	1	f	24.540 3 GHz	-43.405 dBm			
3	N	1	f	4.977 2 GHz	-53.620 dBm			
4	N	1	f	7.167 2 GHz	-53.689 dBm			
5	N	1	f	9.549 5 GHz	-55.102 dBm			
6								
7								
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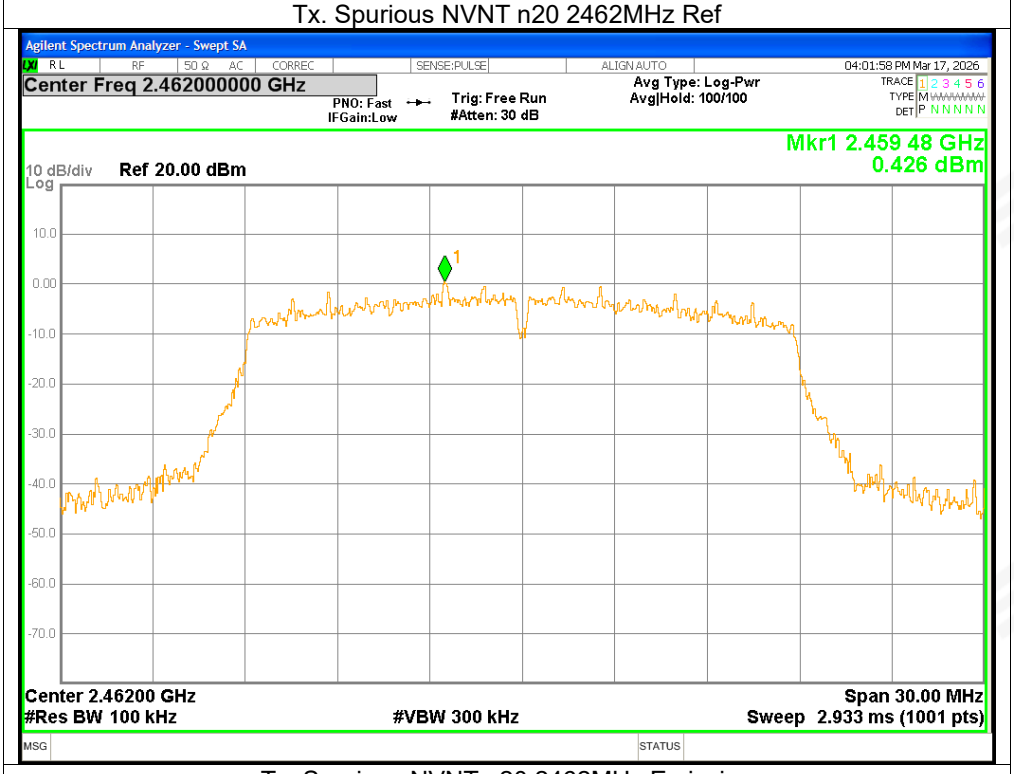
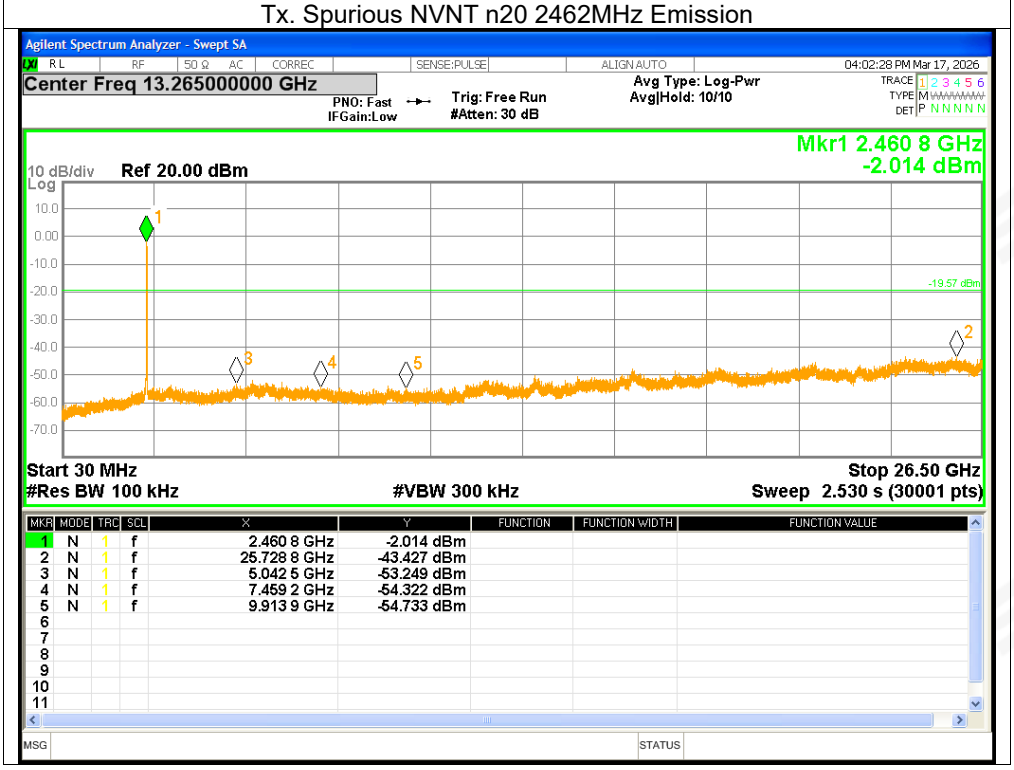
Tx. Spurious NVNT n20 2462MHz Ref



Tx. Spurious NVNT n20 2462MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.460 8 GHz	-2.014 dBm			
2	N	1	f	25.728 8 GHz	-43.427 dBm			
3	N	1	f	5.042 5 GHz	-53.249 dBm			
4	N	1	f	7.459 2 GHz	-54.322 dBm			
5	N	1	f	9.913 9 GHz	-54.733 dBm			
6								
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9								
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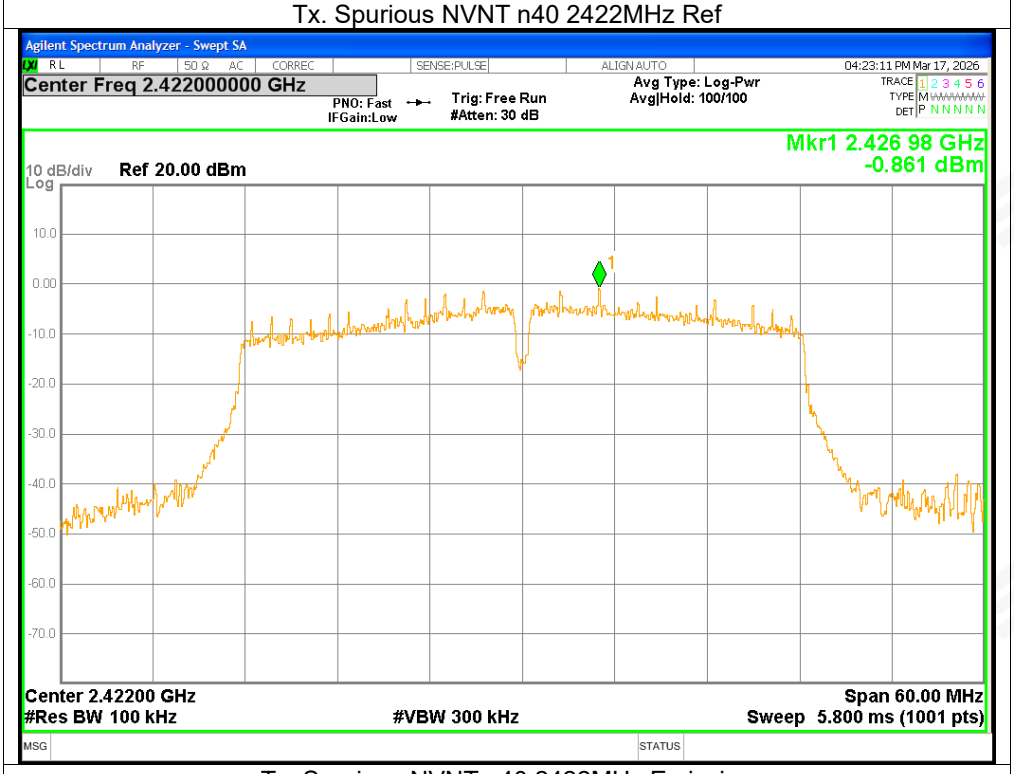
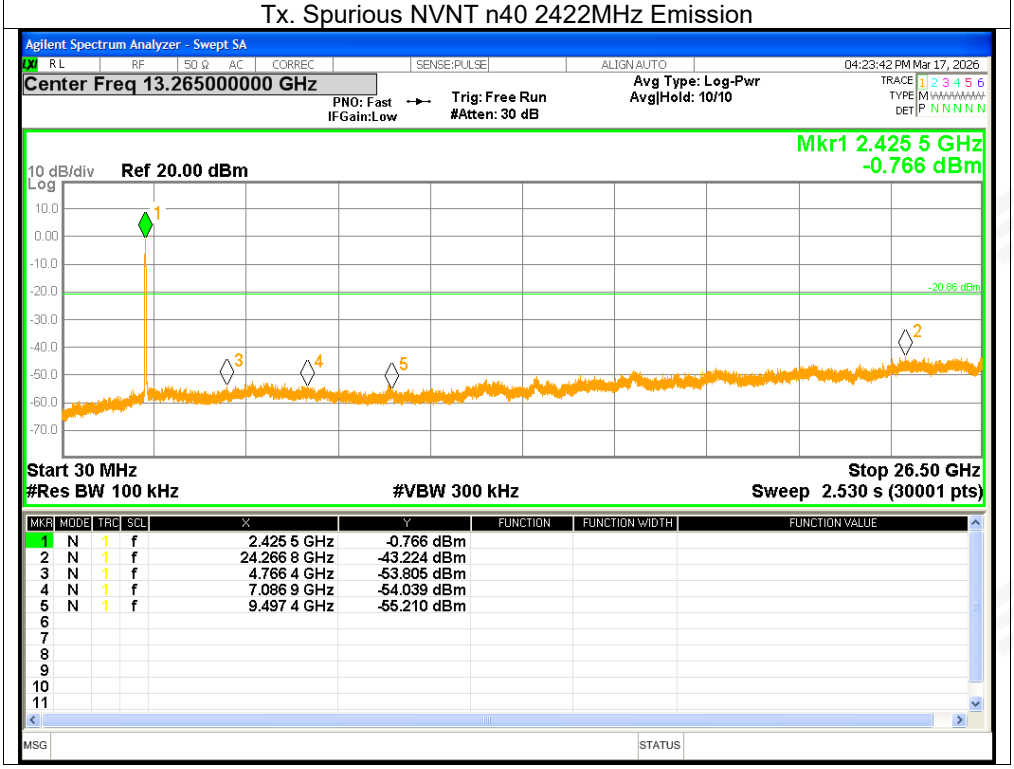
Tx. Spurious NVNT n40 2422MHz Ref



Tx. Spurious NVNT n40 2422MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.425 5 GHz	-0.766 dBm			
2	N	1	f	24.266 8 GHz	-43.224 dBm			
3	N	1	f	4.766 4 GHz	-53.805 dBm			
4	N	1	f	7.086 9 GHz	-54.039 dBm			
5	N	1	f	9.497 4 GHz	-55.210 dBm			
6								
7								
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9								
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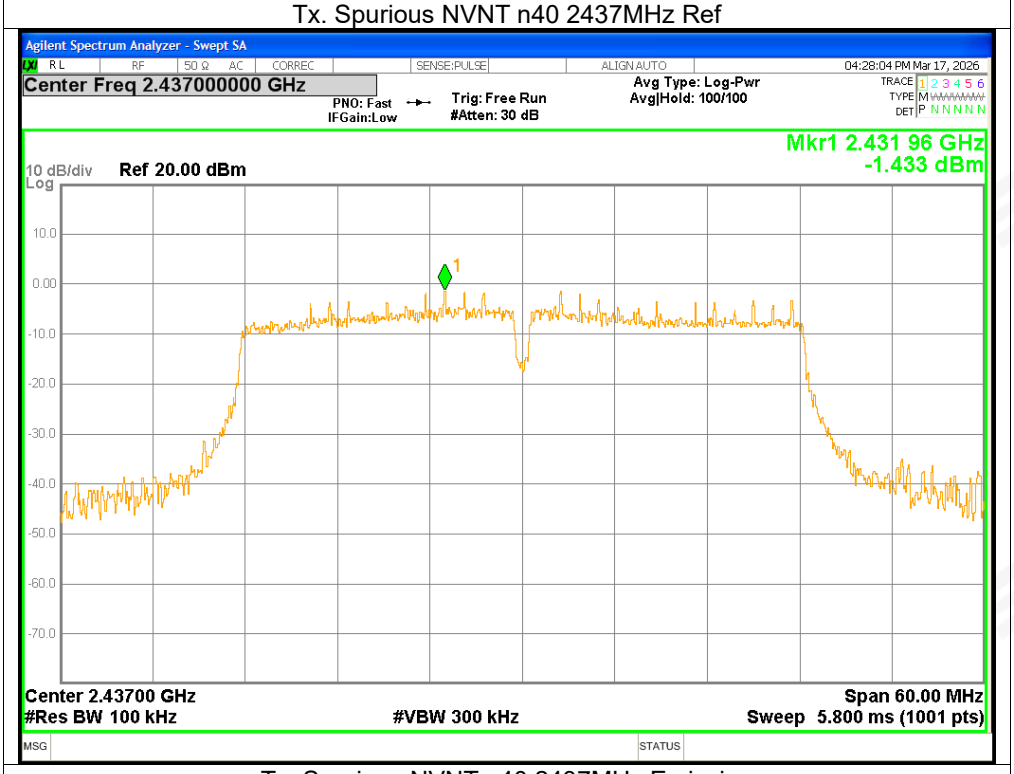
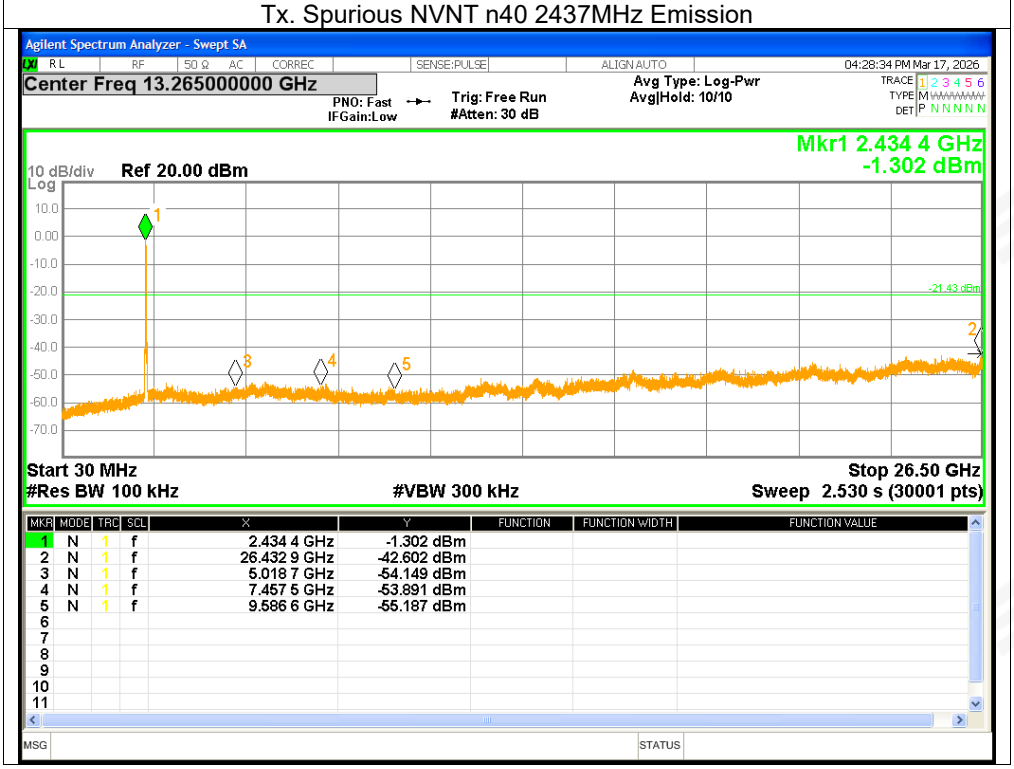
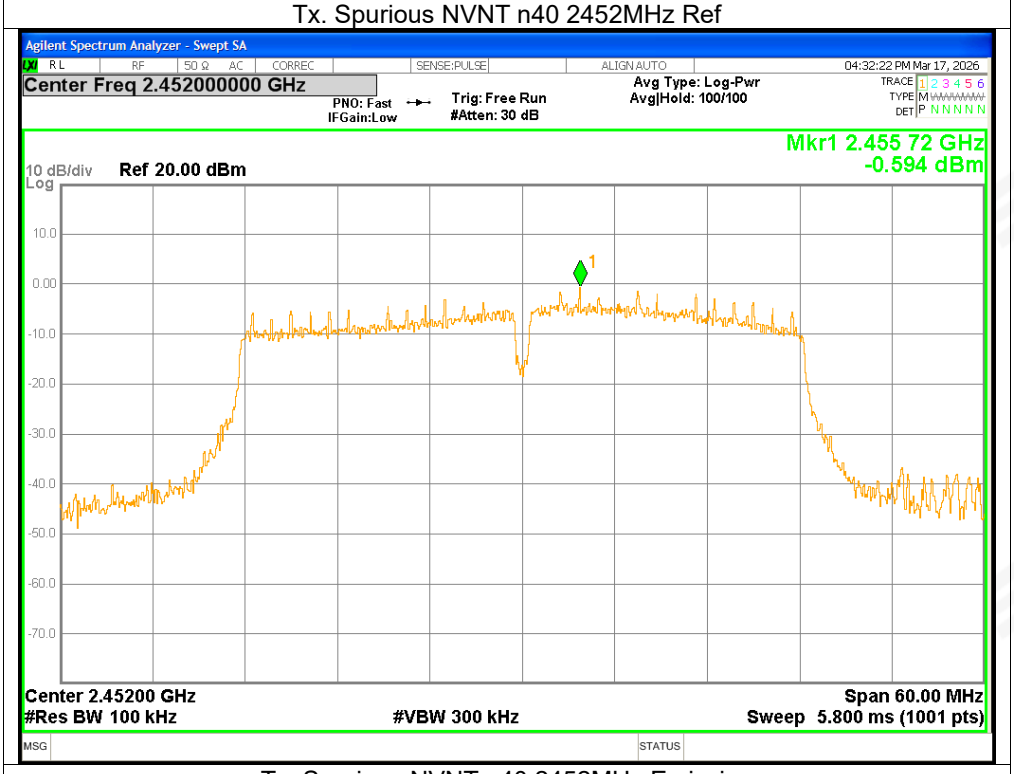
Tx. Spurious NVNT n40 2437MHz Ref



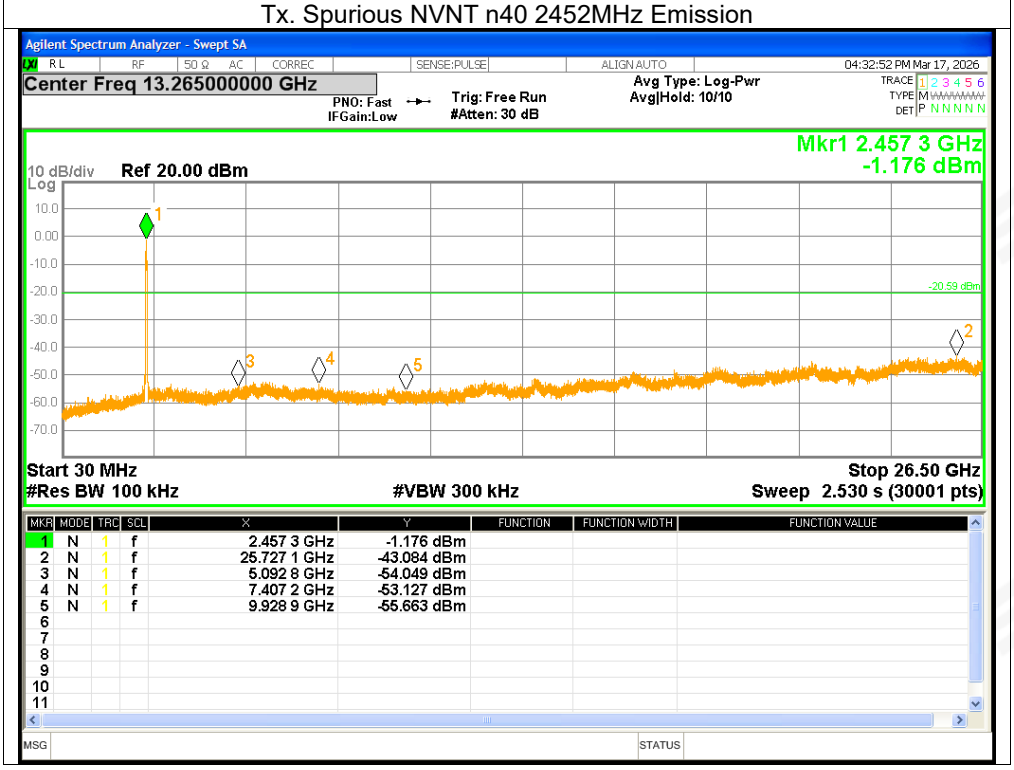
Tx. Spurious NVNT n40 2437MHz Emission



Tx. Spurious NVNT n40 2452MHz Ref



Tx. Spurious NVNT n40 2452MHz Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.457 3 GHz	-1.176 dBm			
2	N	1	f	25.727 1 GHz	-43.084 dBm			
3	N	1	f	5.092 8 GHz	-54.049 dBm			
4	N	1	f	7.407 2 GHz	-53.127 dBm			
5	N	1	f	9.928 9 GHz	-55.663 dBm			
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APPENDIX 2-PHOTOS OF TEST SETUP

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

※※※※※END OF THE REPORT※※※※※