S T S L A B

RADIO TEST REPORT

Report No.:STS2303348W04

Issued for

WHOOP INTERNATIONAL TRADING LIMITED

Flat-B 8/F Chong Gming Building 72 Cheung Sha Wan Road, Kowloon, Hong Kong

Product Name:	10.1 inch Quad Core 4G Tablet PC
Brand:	WHOOP
Model Number:	TAB-10US
Series Model(s):	N/A
FCC ID:	2AP7LTAB10US
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's Name ..... : WHOOP INTERNATIONAL TRADING LIMITED

Address ..... : Flat-B 8/F Chong Gming Building 72 Cheung Sha Wan Road, Kowloon, Hong Kong

Manufacturer's Name..... : Shenzhen Teleone Technology Co.,Ltd

Address ..... : Tower B 5/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, 4093 Liuxian Avenue, Shenzhen, China

Product Description

Product Name ..... : 10.1 inch Quad Core 4G Tablet PC

Brand ..... : WHOOP

Model Number ..... :.. TAB-10US

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

Test Standards ..... : FCC Part 15.247

Test Procedure.....: ANSI C63.10-2013

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.
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Date of Test..... :

Date of receipt of test item..... : 29 Mar. 2023

Date (s) of performance of tests..... : 29 Mar. 2023 ~ 04 Apr. 2023

Date of Issue ..... : 04 Apr. 2023

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

Testing Engineer : Chris Chen

(Chris Chen)

Technical Manager : Sean She

(Sean she)

Authorized Signatory : Bovey Yang

(Bovey Yang)

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	04 Apr. 2023	STS2303348W04	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 C63.10-2013.

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong 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	±1.197dB
2	Unwanted Emissions, conducted	±2.896dB
3	All emissions, radiated 9K-30MHz	±3.84dB
4	All emissions, radiated 30M-1GHz	±3.94dB
5	All emissions, radiated 1G-6GHz	±4.59dB
6	All emissions, radiated>6G	±5.22dB
7	Conducted Emission (9KHz-150KHz)	±2.14dB
8	Conducted Emission (150KHz-30MHz)	±2.54dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>10.1 inch Quad Core 4G Tablet PC</td></tr>
<tr><td>Brand</td><td>WHOOP</td></tr>
<tr><td>Model Number</td><td>TAB-10US</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 10.1 inch Quad Core 4G Tablet PC
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n 20: 2412~2462 MHz</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</td></tr>
<tr><td>Number of Channel:</td><td>802.11b/g/n20: 11CH</td></tr>
<tr><td>Antenna Type:</td><td>PIFA</td></tr>
<tr><td>Antenna Gain (dBi):</td><td>1.18dBi</td></tr>
</table></td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Adapter</td><td>Input: AC 100-240V 0.3A 50/60Hz
Output: DC 5V 1500mA</td></tr>
<tr><td>Battery</td><td>Rated Voltage:3.8V
Charge Limit Voltage:4.35 V
Capacity: 5100mAh</td></tr>
<tr><td>Hardware version number</td><td>J866B_610&310_D4F_V1.0</td></tr>
<tr><td>Software version number</td><td>WHOOP_TAB-10US_13_V01_20230321</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 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.

Operation Frequency of channel	
802.11b/g/n(20MHz)	
Channel	Frequency
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
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)	
Channel	Freq.(MHz)
01	2412
06	2437
11	2462

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 CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	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.

(3) The battery is fully-charged during the radited and RF conducted test.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode10: Keeping WIFI TX

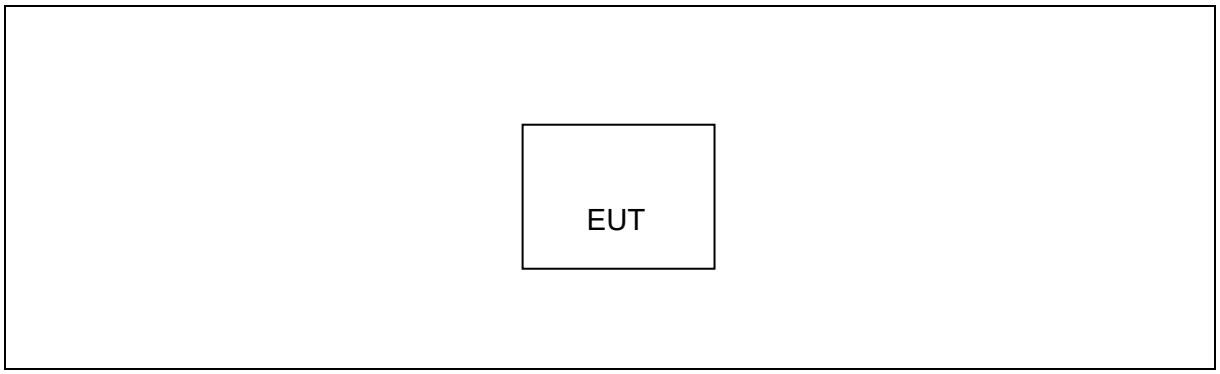
2.3 TEST SOFTWARE AND POWER LEVEL

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

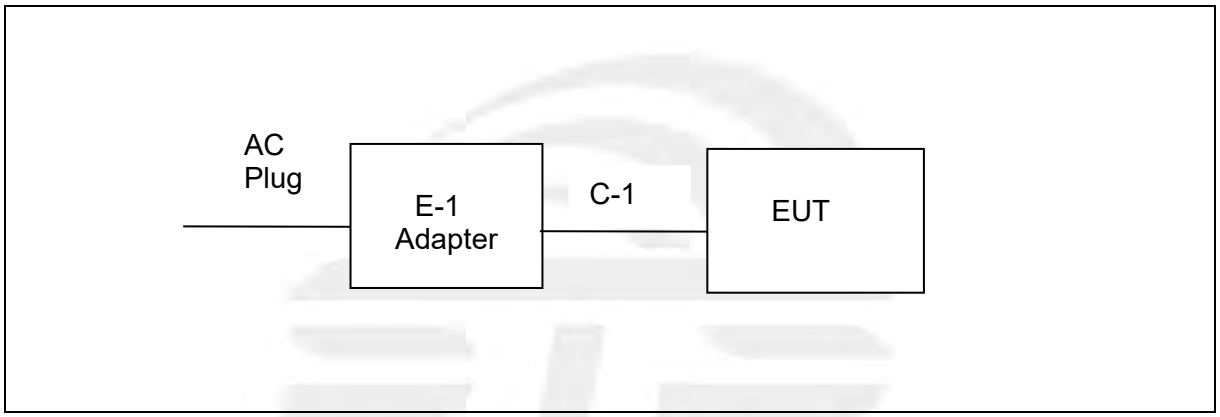
RF Function	Type	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
WIFI(2.4G)	2.4G WIFI	802.11b	1.18	12	Engineering mode
		802.11g		12	
		802.11n(HT20)		12	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



Conduction Test Set



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
E-1	Adapter	N/A	YMK-12W050150	N/A	N/A
C-1	USB Cable	N/A	N/A	95cm	NO

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	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	2023.03.03	2024.03.02
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
18GHz-40GHz Filter	XINGBO	XBLBQ-GTA44	22062003-1	2023.03.06	2024.03.05
Pre-mplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2023.03.06	2024.03.05
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2024.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2021.09.28	2023.09.27
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	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
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	2022.09.29	2023.09.28
LISN	R&S	ENV216	101242	2022.09.28	2023.09.27
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.27
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
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	2023.03.01	2024.02.28
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29
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.

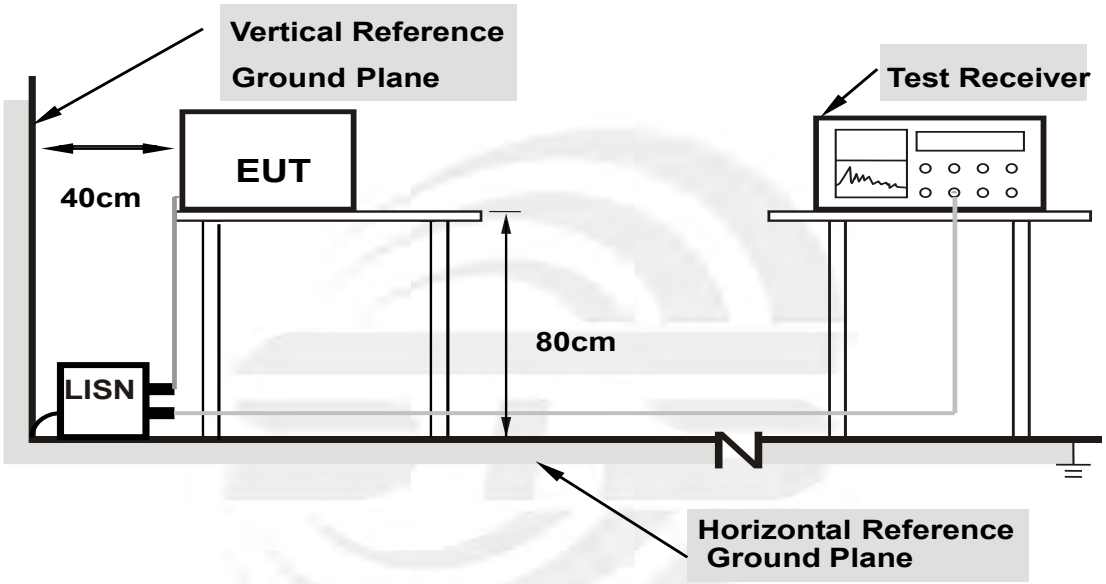
The following table is the setting of the receiver

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

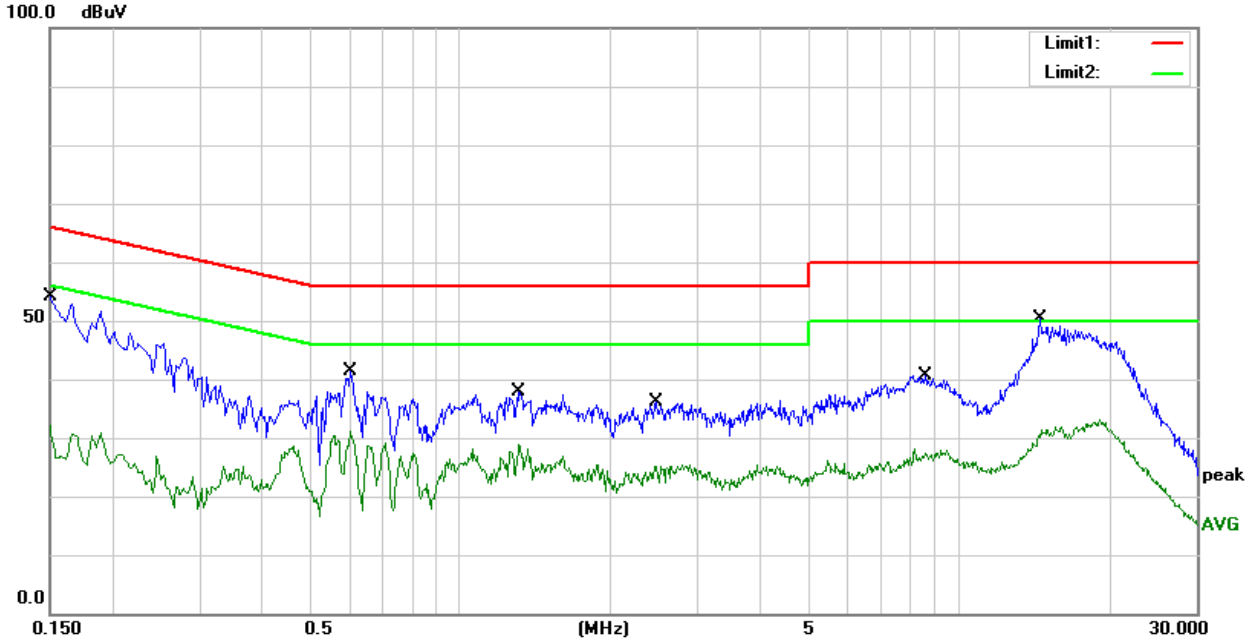
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.5 TEST RESULT

Temperature:	25.5(C)	Relative Humidity:	43%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 10		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	43.81	10.33	54.14	66.00	-11.86	QP
2	0.1500	20.53	10.33	30.86	56.00	-25.14	AVG
3	0.6020	30.87	10.44	41.31	56.00	-14.69	QP
4	0.6020	17.86	10.44	28.30	46.00	-17.70	AVG
5	1.3140	27.54	10.30	37.84	56.00	-18.16	QP
6	1.3140	15.25	10.30	25.55	46.00	-20.45	AVG
7	2.4780	25.87	10.32	36.19	56.00	-19.81	QP
8	2.4780	15.01	10.32	25.33	46.00	-20.67	AVG
9	8.5620	29.62	10.90	40.52	60.00	-19.48	QP
10	8.5620	15.71	10.90	26.61	50.00	-23.39	AVG
11	14.5700	38.67	11.68	50.35	60.00	-9.65	QP
12	14.5700	18.71	11.68	30.39	50.00	-19.61	AVG

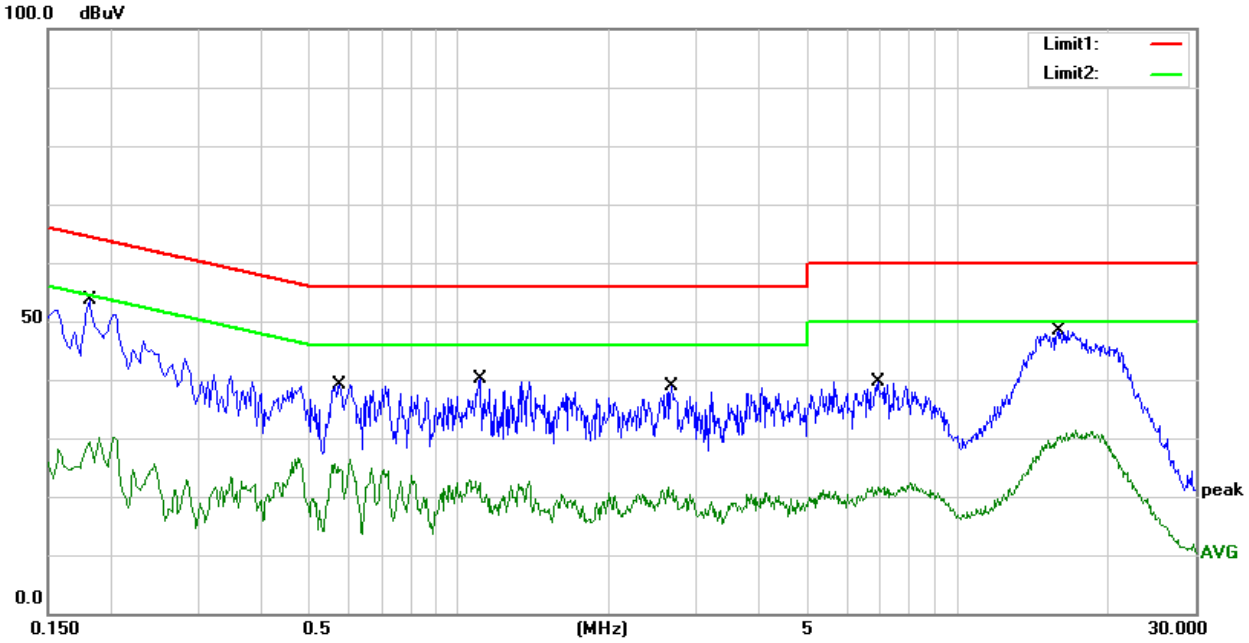
Remark:
1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)–Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



Temperature:	25.5(C)	Relative Humidity:	43%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 10		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1820	43.27	10.36	53.63	64.39	-10.76	QP
2	0.1820	19.70	10.36	30.06	54.39	-24.33	AVG
3	0.5780	28.77	10.44	39.21	56.00	-16.79	QP
4	0.5780	14.46	10.44	24.90	46.00	-21.10	AVG
5	1.1020	29.79	10.31	40.10	56.00	-15.90	QP
6	1.1020	12.22	10.31	22.53	46.00	-23.47	AVG
7	2.6660	28.42	10.43	38.85	56.00	-17.15	QP
8	2.6660	8.66	10.43	19.09	46.00	-26.91	AVG
9	6.9340	29.04	10.58	39.62	60.00	-20.38	QP
10	6.9340	11.89	10.58	22.47	50.00	-27.53	AVG
11	16.0460	36.50	11.86	48.36	60.00	-11.64	QP
12	16.0460	19.32	11.86	31.18	50.00	-18.82	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 C63.10-2013 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

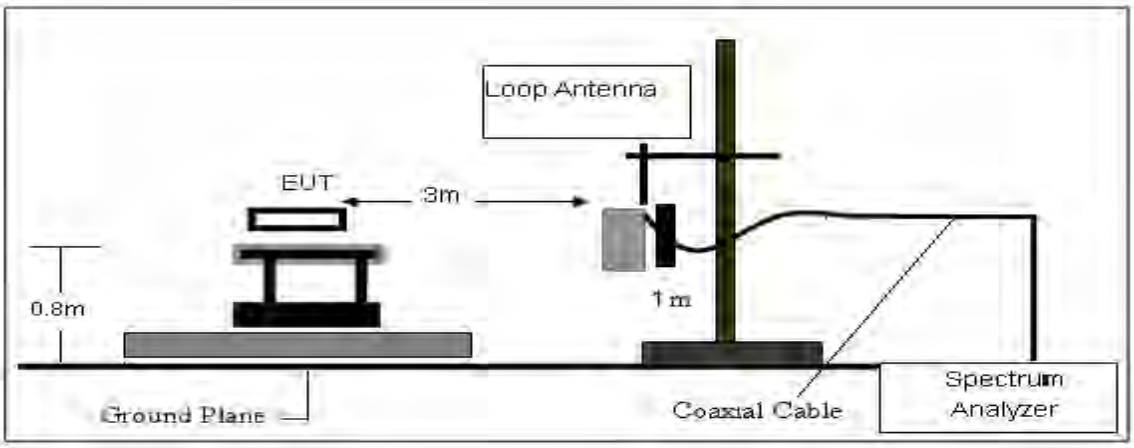
a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position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

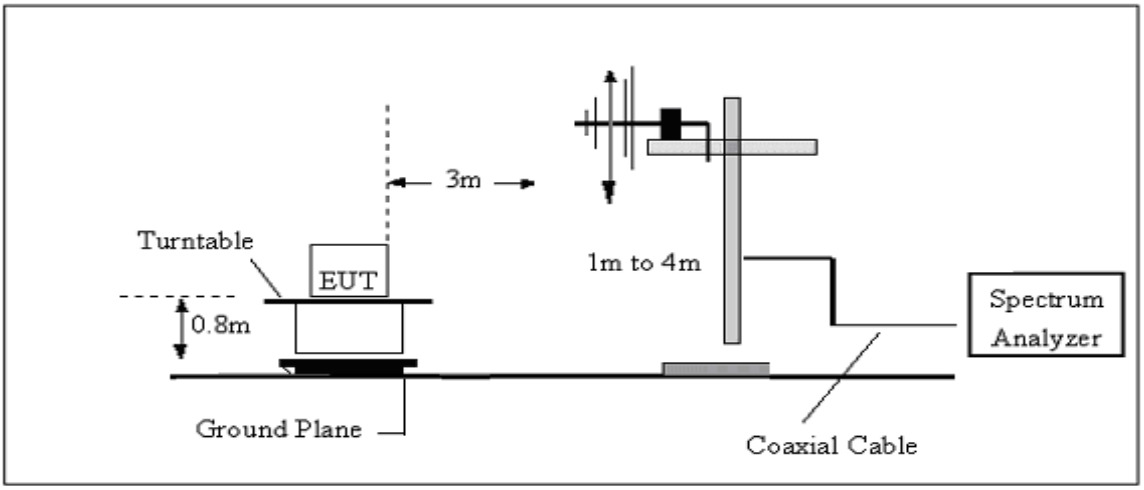
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

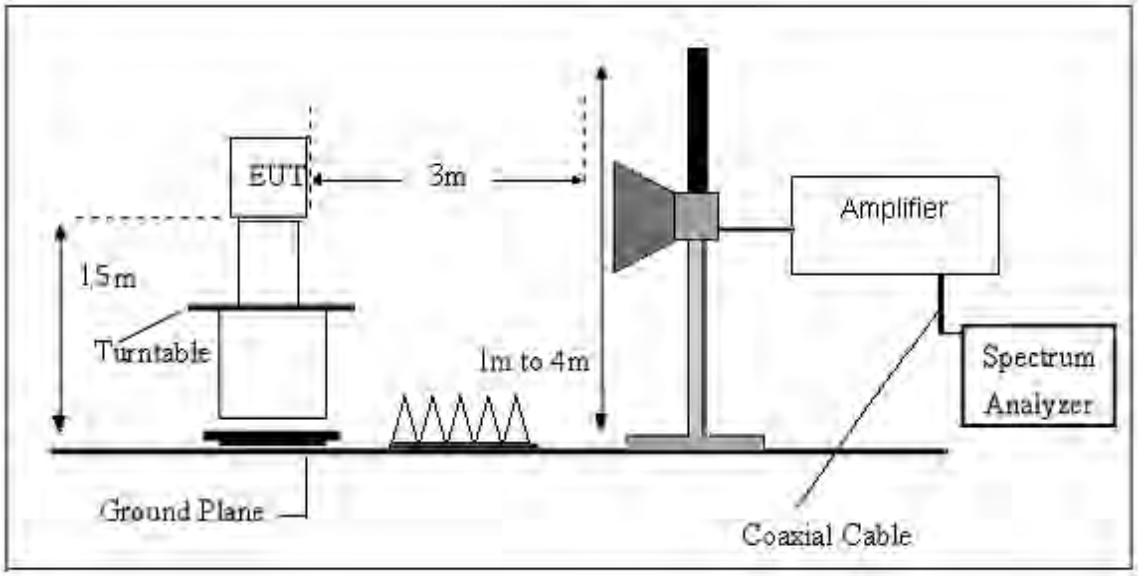
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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:	23.1(C)	Relative Humidtity:	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	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.

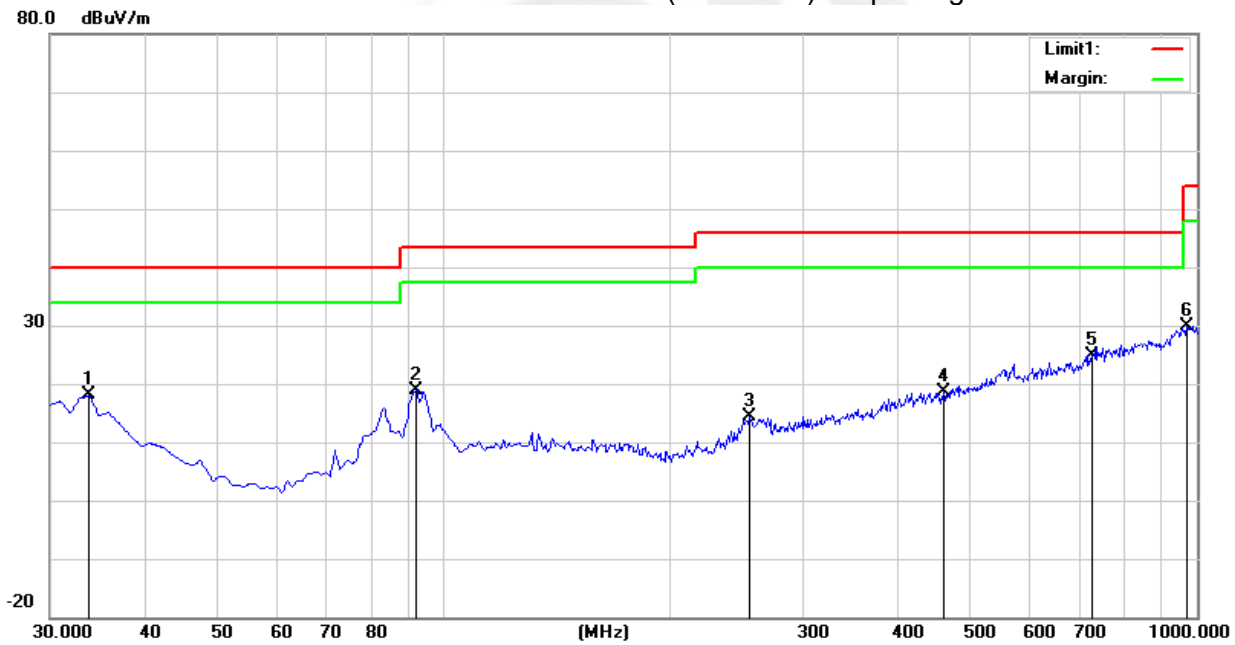
(30MHz - 1000MHz)

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.8V	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 8 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	32.84	-14.80	18.04	40.00	-21.96	peak
2	92.0800	40.12	-21.20	18.92	43.50	-24.58	peak
3	255.0400	29.67	-15.35	14.32	46.00	-31.68	peak
4	461.6500	27.97	-9.39	18.58	46.00	-27.42	peak
5	725.4900	27.77	-2.82	24.95	46.00	-21.05	peak
6	971.8700	27.73	2.13	29.86	54.00	-24.14	peak

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

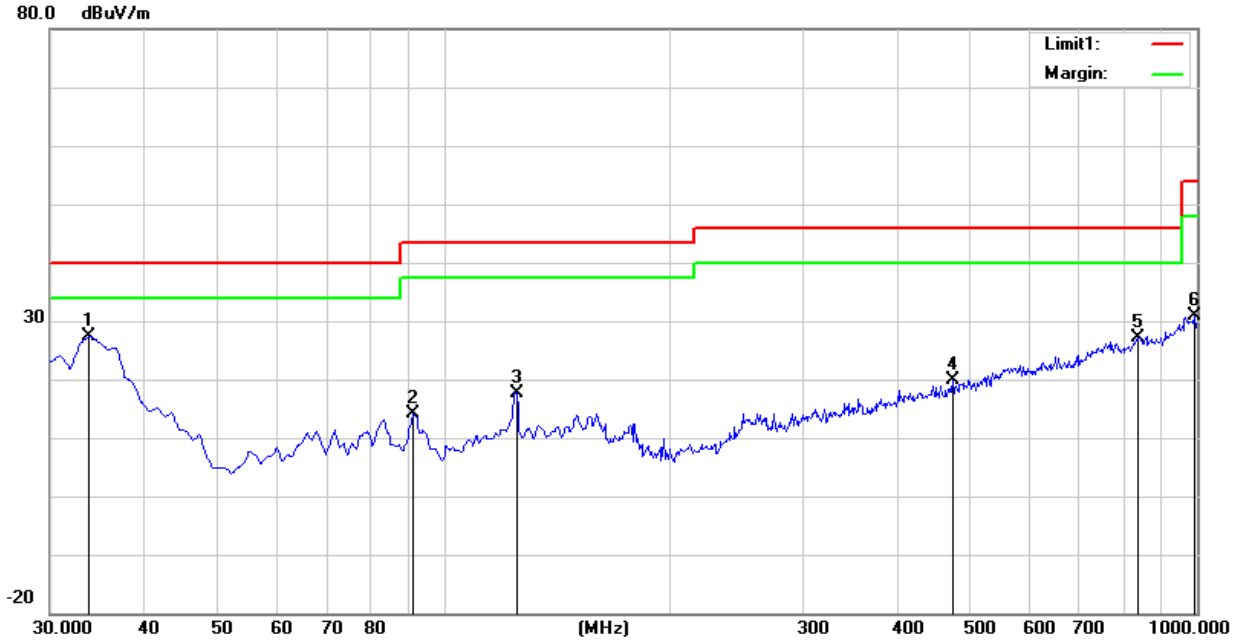


Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.8V	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 8 worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33.8800	42.28	-14.80	27.48	40.00	-12.52	peak
2	91.1100	35.32	-21.31	14.01	43.50	-29.49	peak
3	125.0600	35.77	-18.22	17.55	43.50	-25.95	peak
4	474.2600	28.83	-8.85	19.98	46.00	-26.02	peak
5	836.0700	27.70	-0.50	27.20	46.00	-18.80	peak
6	995.1500	28.73	2.04	30.77	54.00	-23.23	peak

Remark:.

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



(1000MHz-25GHz) Spurious emission Requirements

802.11 n(HT20)

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 (802.11n20/2412 MHz)										
3264.86	61.97	44.70	6.70	28.20	-9.80	52.17	74.00	-21.83	PK	Vertical
3264.86	51.67	44.70	6.70	28.20	-9.80	41.87	54.00	-12.13	AV	Vertical
3264.85	62.03	44.70	6.70	28.20	-9.80	52.23	74.00	-21.77	PK	Horizontal
3264.85	50.71	44.70	6.70	28.20	-9.80	40.91	54.00	-13.09	AV	Horizontal
4824.41	59.26	44.20	9.04	31.60	-3.56	55.70	74.00	-18.30	PK	Vertical
4824.41	49.81	44.20	9.04	31.60	-3.56	46.25	54.00	-7.75	AV	Vertical
4824.32	58.89	44.20	9.04	31.60	-3.56	55.33	74.00	-18.67	PK	Horizontal
4824.32	50.11	44.20	9.04	31.60	-3.56	46.55	54.00	-7.45	AV	Horizontal
5359.78	48.14	44.20	9.86	32.00	-2.34	45.80	74.00	-28.20	PK	Vertical
5359.78	39.56	44.20	9.86	32.00	-2.34	37.22	54.00	-16.78	AV	Vertical
5359.65	47.83	44.20	9.86	32.00	-2.34	45.49	74.00	-28.51	PK	Horizontal
5359.65	39.49	44.20	9.86	32.00	-2.34	37.14	54.00	-16.86	AV	Horizontal
7235.91	54.91	43.50	11.40	35.50	3.40	58.31	74.00	-15.69	PK	Vertical
7235.91	44.30	43.50	11.40	35.50	3.40	47.70	54.00	-6.30	AV	Vertical
7235.95	53.54	43.50	11.40	35.50	3.40	56.94	74.00	-17.06	PK	Horizontal
7235.95	44.18	43.50	11.40	35.50	3.40	47.58	54.00	-6.42	AV	Horizontal
Middle Channel (802.11n20/2437 MHz)										
3264.80	61.78	44.70	6.70	28.20	-9.80	51.98	74.00	-22.02	PK	Vertical
3264.80	51.12	44.70	6.70	28.20	-9.80	41.32	54.00	-12.68	AV	Vertical
3264.67	61.76	44.70	6.70	28.20	-9.80	51.96	74.00	-22.04	PK	Horizontal
3264.67	50.25	44.70	6.70	28.20	-9.80	40.45	54.00	-13.55	AV	Horizontal
4874.47	59.48	44.20	9.04	31.60	-3.56	55.92	74.00	-18.08	PK	Vertical
4874.47	49.35	44.20	9.04	31.60	-3.56	45.79	54.00	-8.21	AV	Vertical
4874.54	58.17	44.20	9.04	31.60	-3.56	54.61	74.00	-19.39	PK	Horizontal
4874.54	49.95	44.20	9.04	31.60	-3.56	46.39	54.00	-7.61	AV	Horizontal
5359.61	49.18	44.20	9.86	32.00	-2.34	46.83	74.00	-27.17	PK	Vertical
5359.61	39.31	44.20	9.86	32.00	-2.34	36.97	54.00	-17.03	AV	Vertical
5359.76	47.79	44.20	9.86	32.00	-2.34	45.45	74.00	-28.55	PK	Horizontal
5359.76	38.66	44.20	9.86	32.00	-2.34	36.31	54.00	-17.69	AV	Horizontal
7310.80	54.15	43.50	11.40	35.50	3.40	57.55	74.00	-16.45	PK	Vertical
7310.80	44.72	43.50	11.40	35.50	3.40	48.12	54.00	-5.88	AV	Vertical
7310.85	54.01	43.50	11.40	35.50	3.40	57.41	74.00	-16.59	PK	Horizontal
7310.85	43.57	43.50	11.40	35.50	3.40	46.97	54.00	-7.03	AV	Horizontal

High Channel (802.11n20/2462 MHz)										
3264.64	61.47	44.70	6.70	28.20	-9.80	51.67	74.00	-22.33	PK	Vertical
3264.64	51.48	44.70	6.70	28.20	-9.80	41.68	54.00	-12.32	AV	Vertical
3264.86	62.16	44.70	6.70	28.20	-9.80	52.36	74.00	-21.64	PK	Horizontal
3264.86	51.33	44.70	6.70	28.20	-9.80	41.53	54.00	-12.47	AV	Horizontal
4924.29	59.42	44.20	9.04	31.60	-3.56	55.86	74.00	-18.14	PK	Vertical
4924.29	50.52	44.20	9.04	31.60	-3.56	46.96	54.00	-7.04	AV	Vertical
4924.54	58.94	44.20	9.04	31.60	-3.56	55.38	74.00	-18.62	PK	Horizontal
4924.54	49.82	44.20	9.04	31.60	-3.56	46.26	54.00	-7.74	AV	Horizontal
5359.72	49.42	44.20	9.86	32.00	-2.34	47.08	74.00	-26.92	PK	Vertical
5359.72	38.95	44.20	9.86	32.00	-2.34	36.61	54.00	-17.39	AV	Vertical
5359.86	47.99	44.20	9.86	32.00	-2.34	45.64	74.00	-28.36	PK	Horizontal
5359.86	39.41	44.20	9.86	32.00	-2.34	37.07	54.00	-16.93	AV	Horizontal
7385.93	53.95	43.50	11.40	35.50	3.40	57.35	74.00	-16.65	PK	Vertical
7385.93	44.34	43.50	11.40	35.50	3.40	47.74	54.00	-6.26	AV	Vertical
7385.87	53.86	43.50	11.40	35.50	3.40	57.26	74.00	-16.74	PK	Horizontal
7385.87	44.18	43.50	11.40	35.50	3.40	47.58	54.00	-6.42	AV	Horizontal

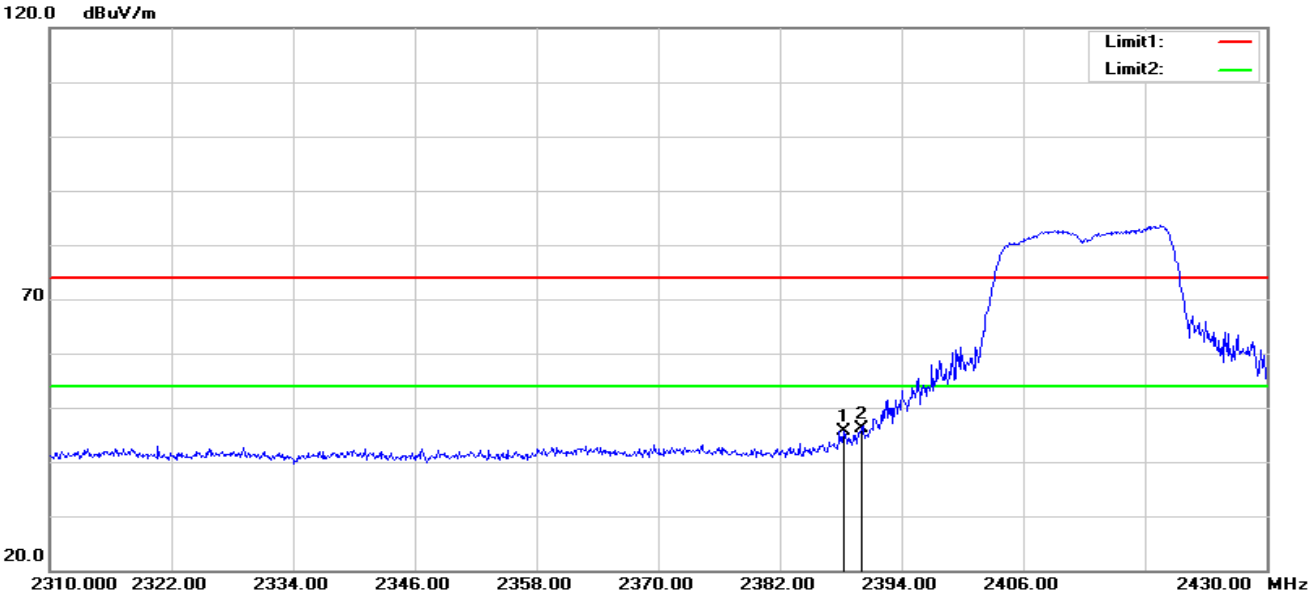
Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) the worst case is 802.11 n(HT20).
   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)

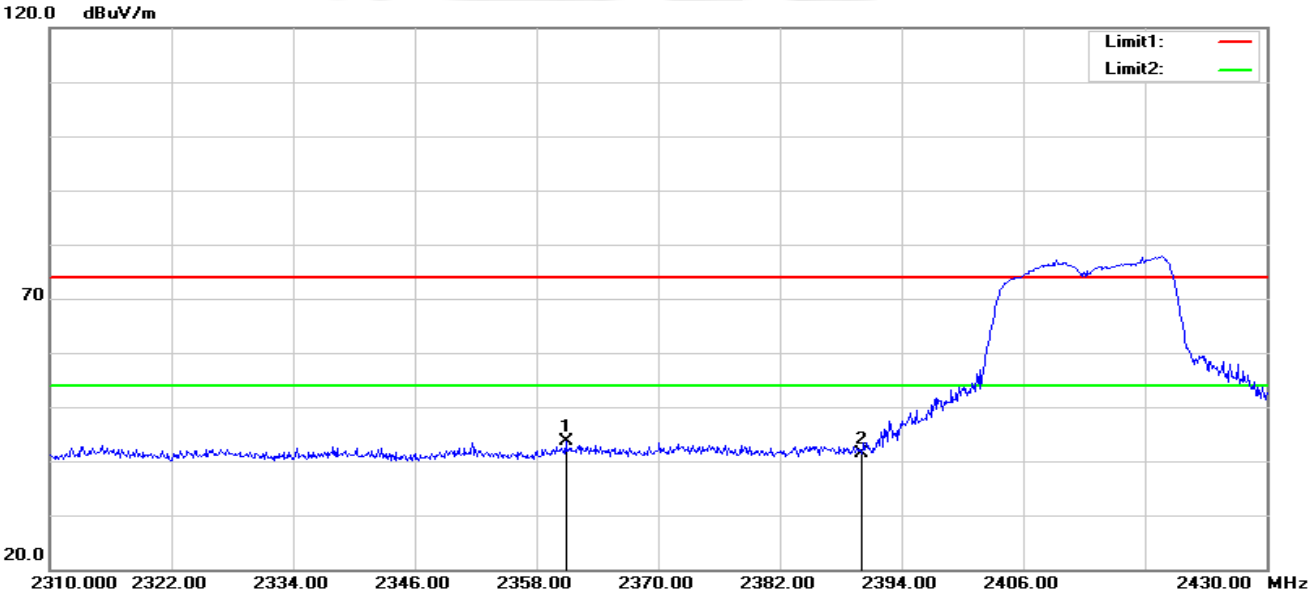
802.11 n(HT20)-Low

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.240	41.32	4.31	45.63	74.00	-28.37	peak
2	2390.000	41.83	4.34	46.17	74.00	-27.83	peak

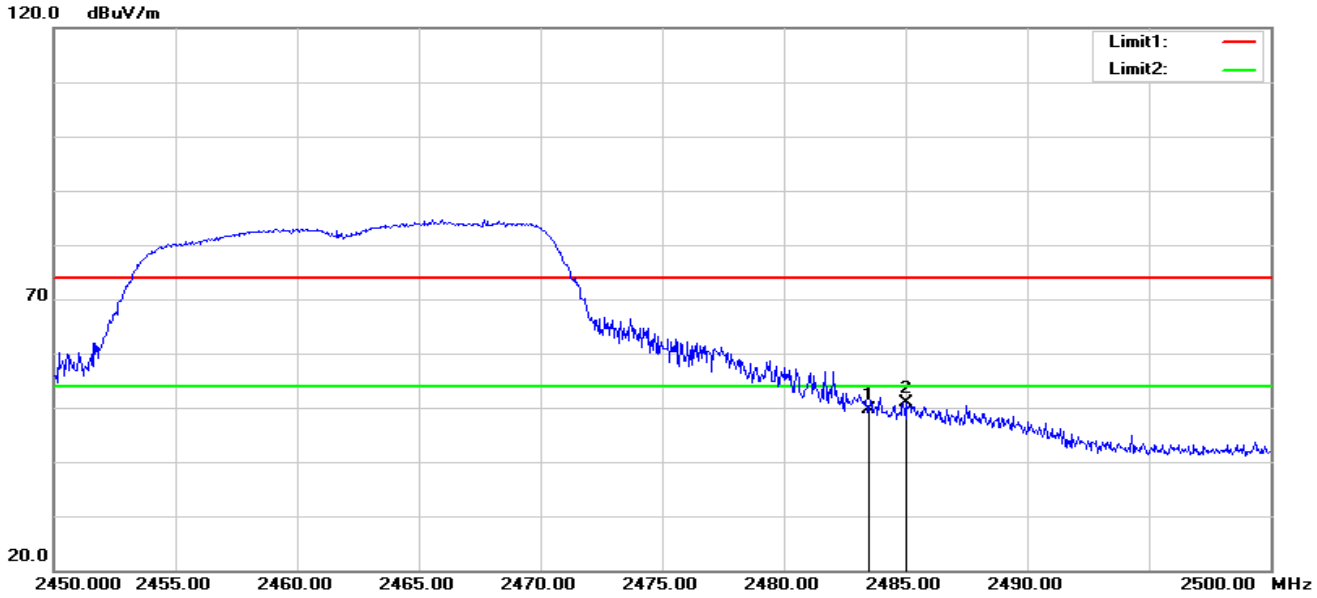
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2360.880	39.61	3.91	43.52	74.00	-30.48	peak
2	2390.000	37.15	4.34	41.49	74.00	-32.51	peak

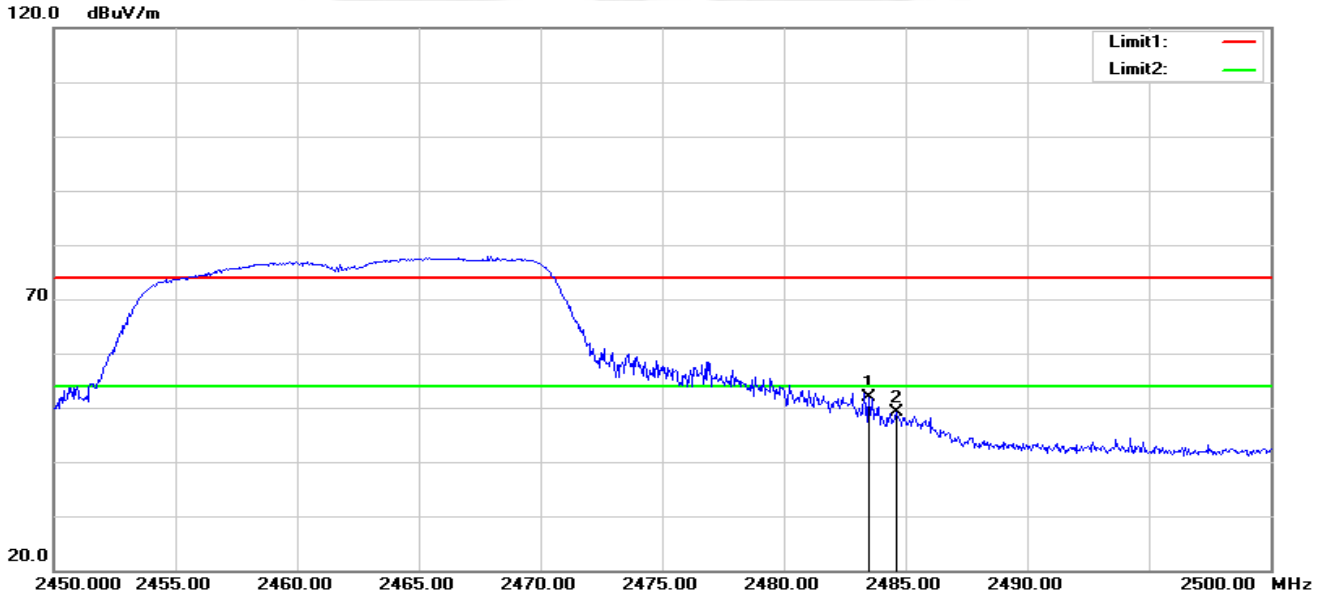
802.11 n(HT20)-High

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	45.08	4.60	49.68	74.00	-24.32	peak
2	2485.050	46.37	4.61	50.98	74.00	-23.02	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.20	4.60	51.80	74.00	-22.20	peak
2	2484.600	44.46	4.61	49.07	74.00	-24.93	peak

Note: 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) mode all have been tested, the worst case is 802.11 n(HT20), only show the worst case.

4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 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.

4.2 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 to 2432 MHz Upper Band Edge: 2442 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 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.

4.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

4.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

5. POWER SPECTRAL DENSITY TEST

5.1 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

5.2 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.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

6. BANDWIDTH TEST

6.1 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

6.2 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≥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.

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. 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

7.2 TEST PROCEDURE

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

RBW ≥ 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:

a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = auto couple.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) 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:

a) Set the RBW = 1 MHz.
b) Set the VBW ≥ [3 × RBW].
c) Set the span ≥ [1.5 × DTS bandwidth].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) 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.

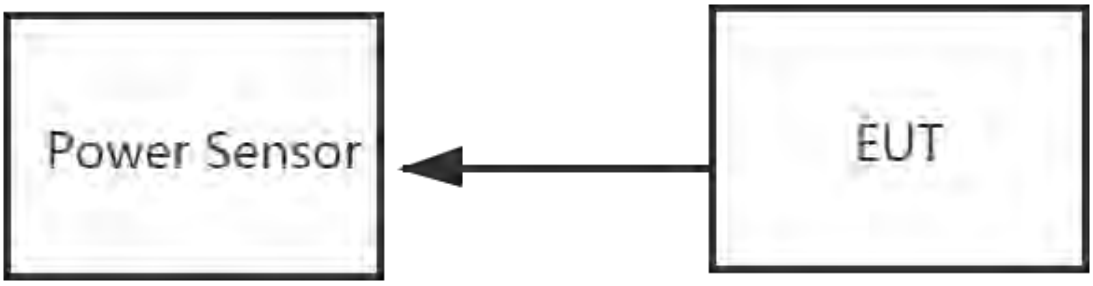
PKPM1 Peak power meter method:

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.

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. ANTENNA REQUIREMENT

8.1 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.

8.2 EUT ANTENNA

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

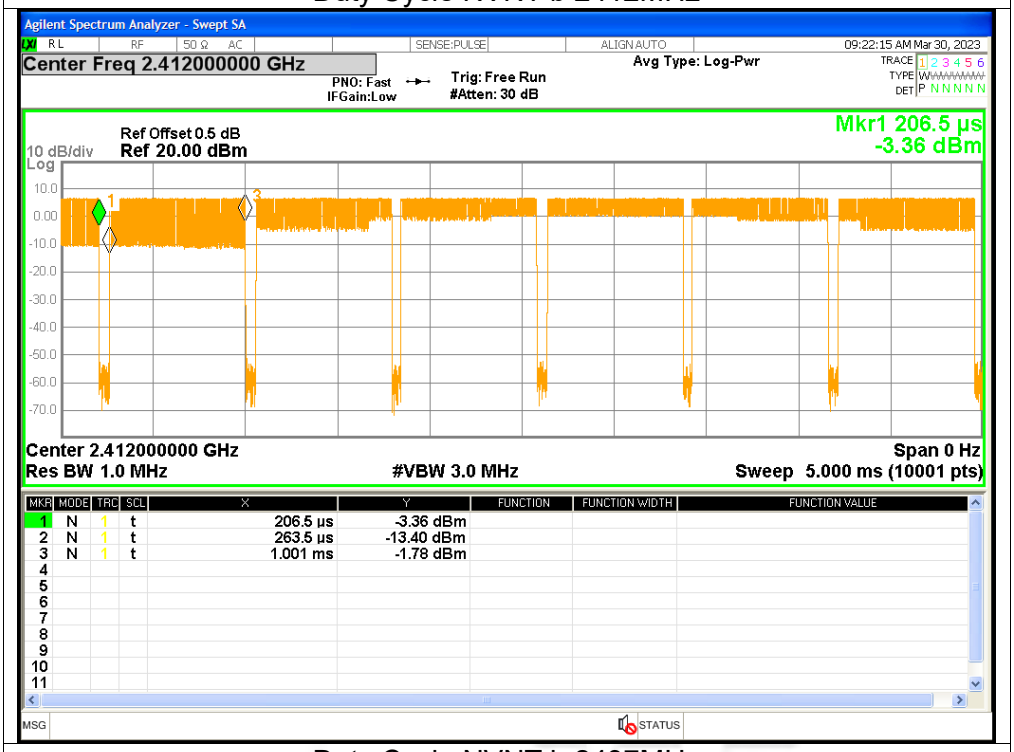
APPENDIX 1-TEST DATA

1. Duty Cycle

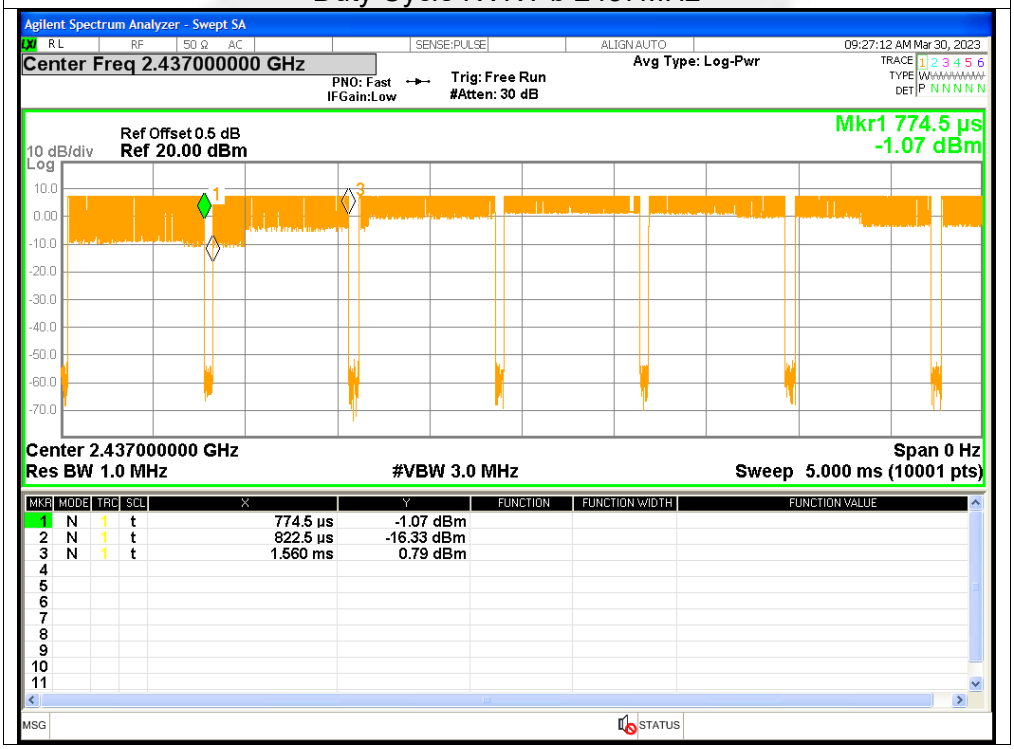
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	92.82	0.32	1.36
NVNT	b	2437	93.89	0.27	1.36
NVNT	b	2462	93.95	0.27	1.36
NVNT	g	2412	68.71	1.63	8.56
NVNT	g	2437	68.82	1.62	8.55
NVNT	g	2462	68.9	1.62	8.55
NVNT	n20	2412	70.22	1.54	8
NVNT	n20	2437	70.22	1.54	8
NVNT	n20	2462	70.22	1.54	8

Test Graphs

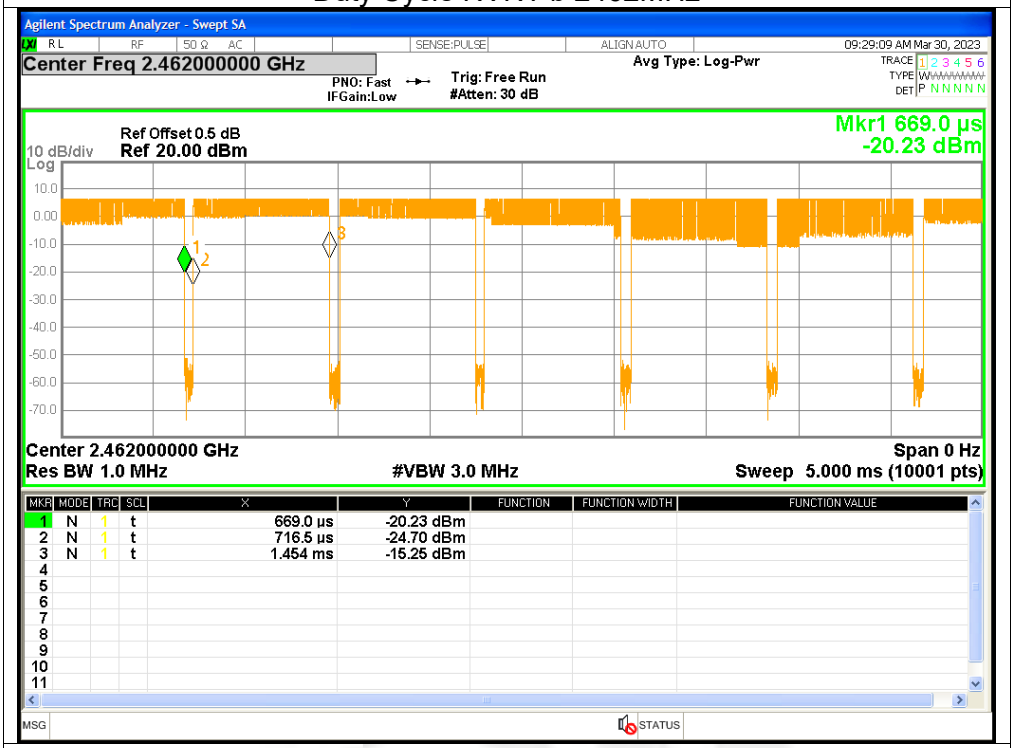
Duty Cycle NVNT b 2412MHz



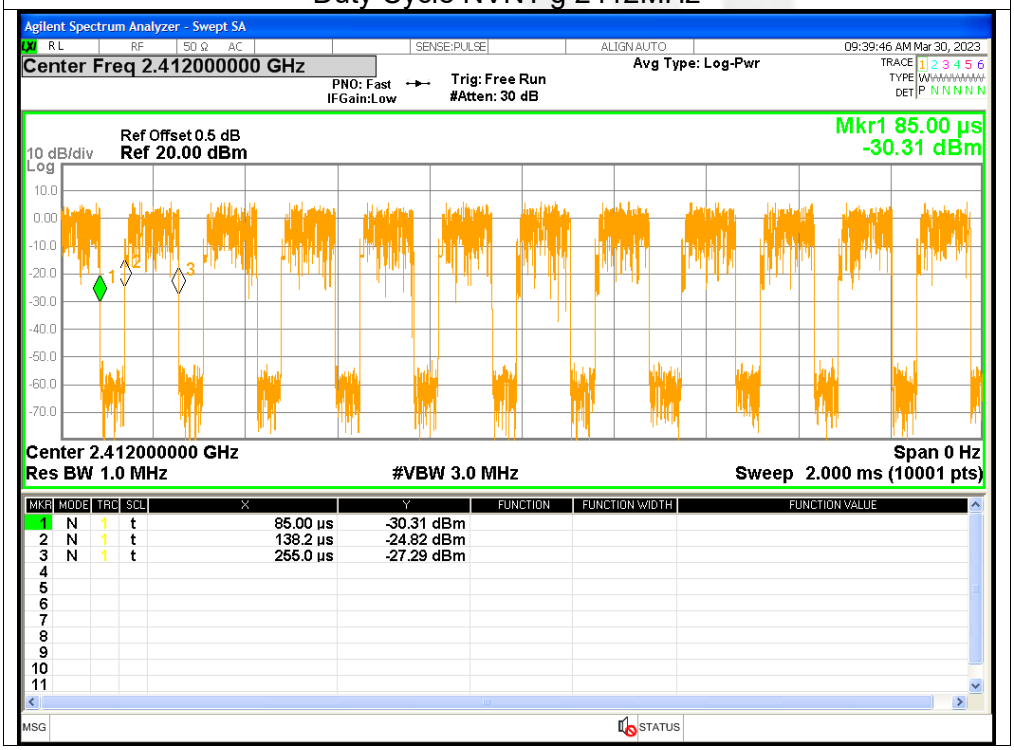
Duty Cycle NVNT b 2437MHz



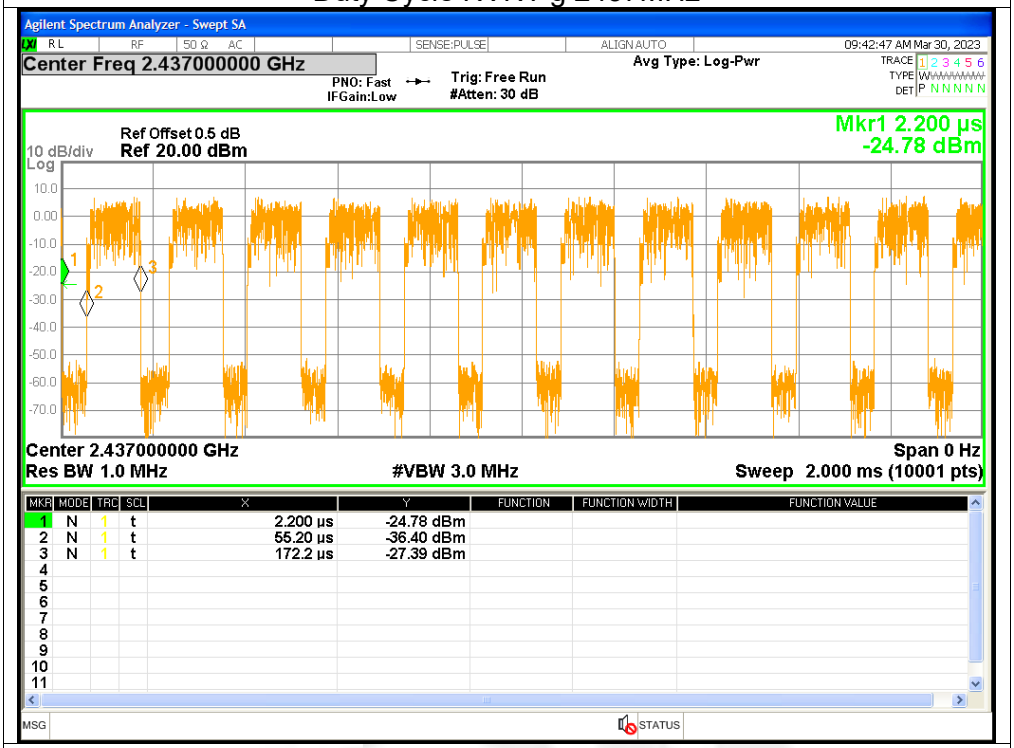
Duty Cycle NVNT b 2462MHz



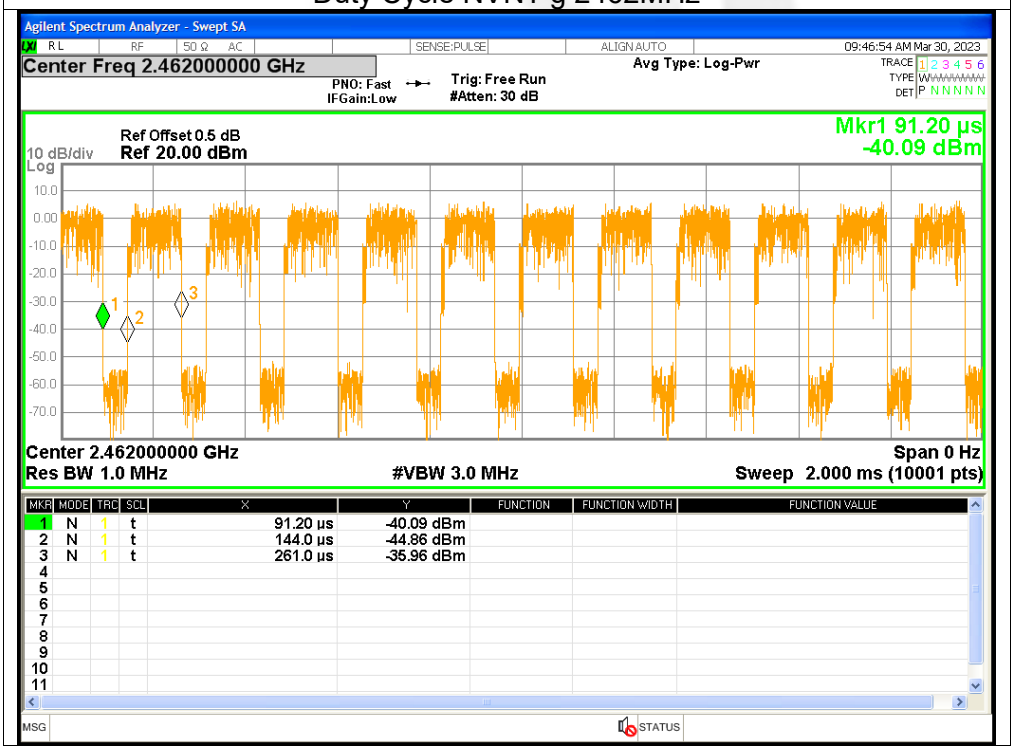
Duty Cycle NVNT g 2412MHz



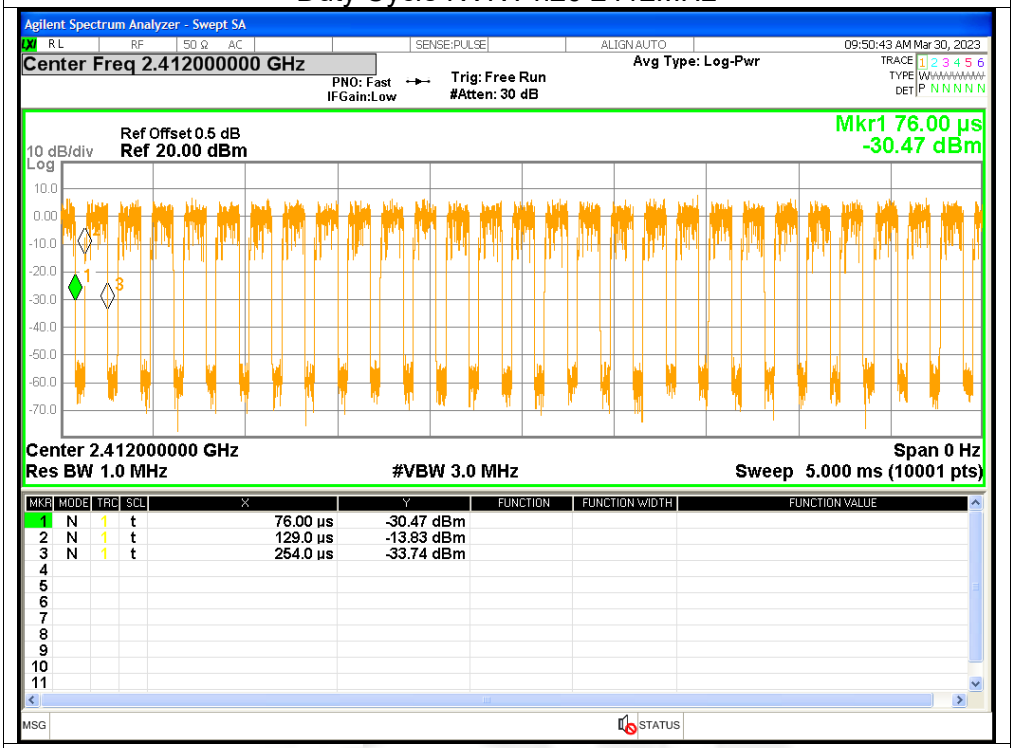
Duty Cycle NVNT g 2437MHz



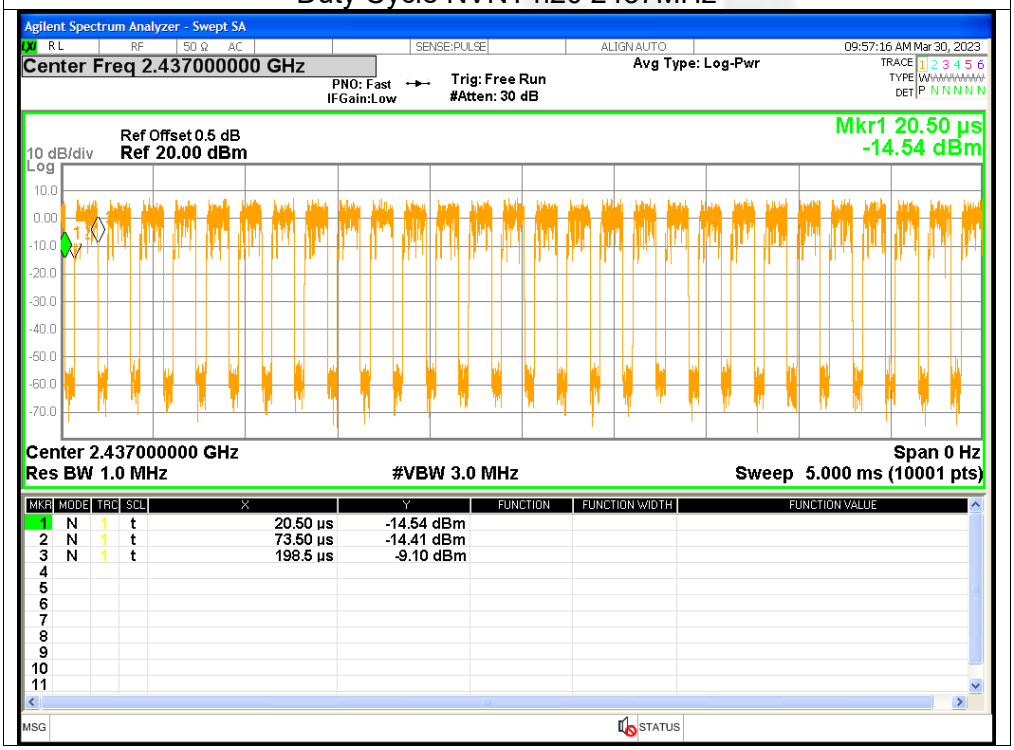
Duty Cycle NVNT g 2462MHz



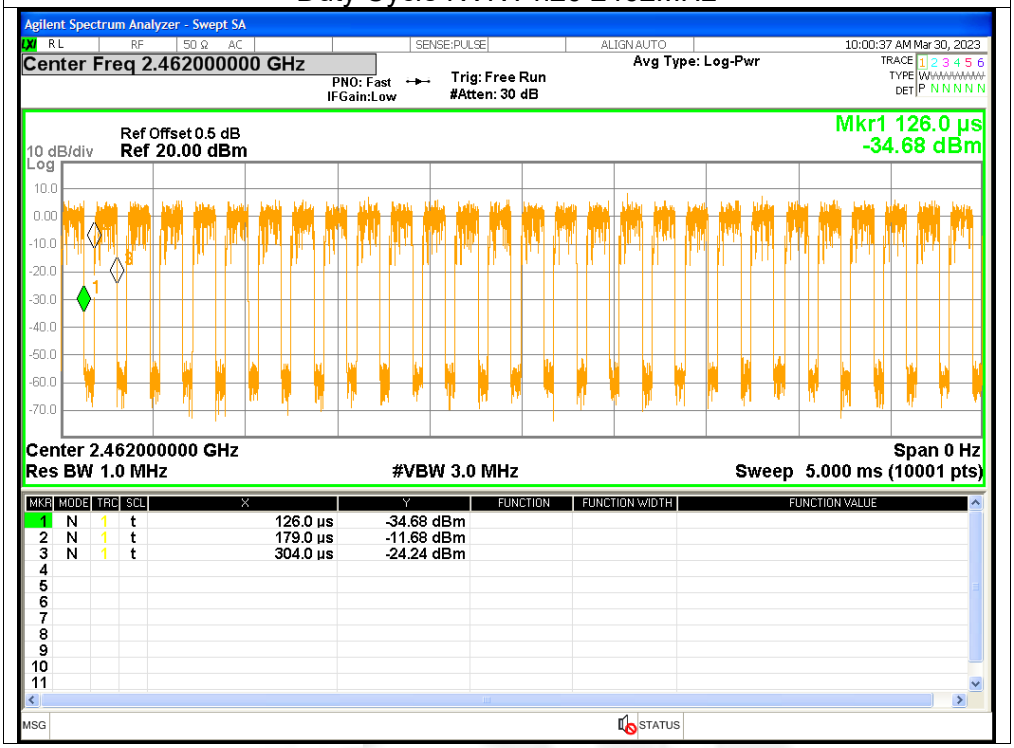
Duty Cycle NVNT n20 2412MHz



Duty Cycle NVNT n20 2437MHz



Duty Cycle NVNT n20 2462MHz

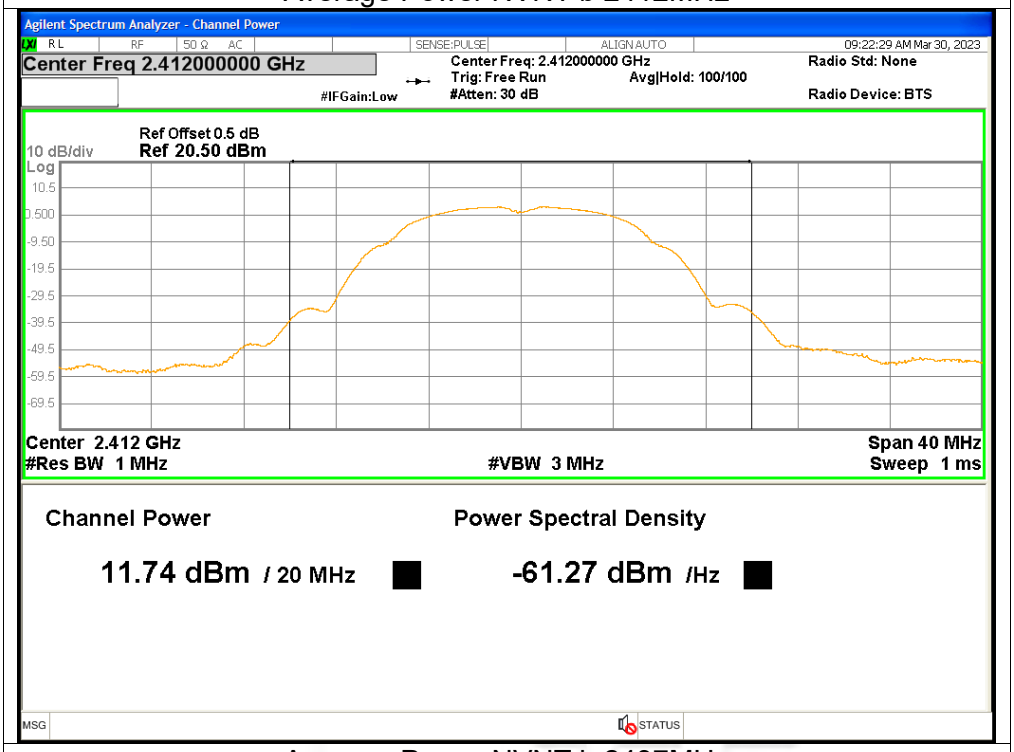


2. Maximum Average Conducted Output Power

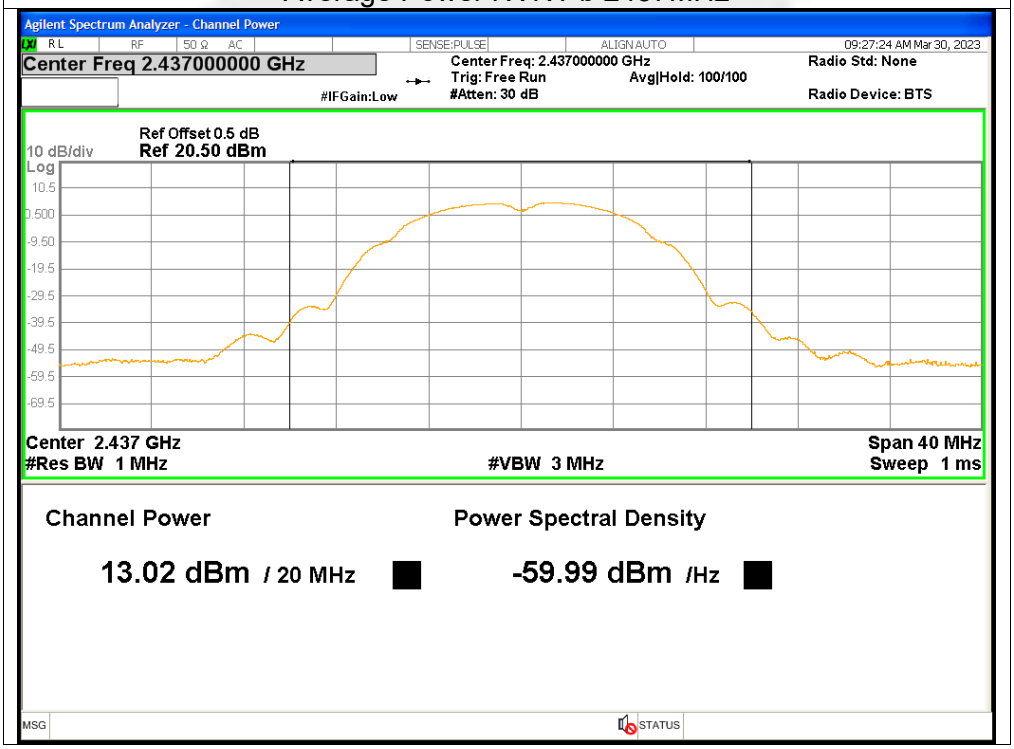
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	11.74	0.32	12.06	<=30	Pass
NVNT	b	2437	13.02	0.27	13.29	<=30	Pass
NVNT	b	2462	12.04	0.27	12.31	<=30	Pass
NVNT	g	2412	9.88	1.63	11.51	<=30	Pass
NVNT	g	2437	10.92	1.62	12.54	<=30	Pass
NVNT	g	2462	9.96	1.62	11.58	<=30	Pass
NVNT	n20	2412	10.3	1.54	11.84	<=30	Pass
NVNT	n20	2437	11.25	1.54	12.79	<=30	Pass
NVNT	n20	2462	10.24	1.54	11.78	<=30	Pass

Test Graphs

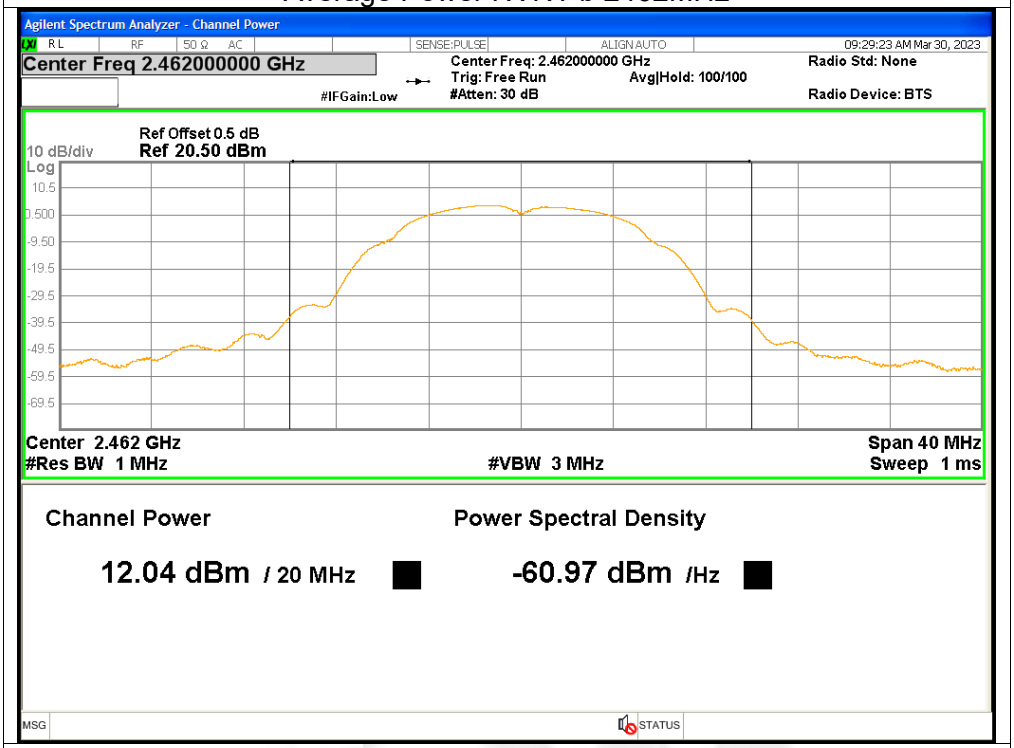
Average Power NVNT b 2412MHz



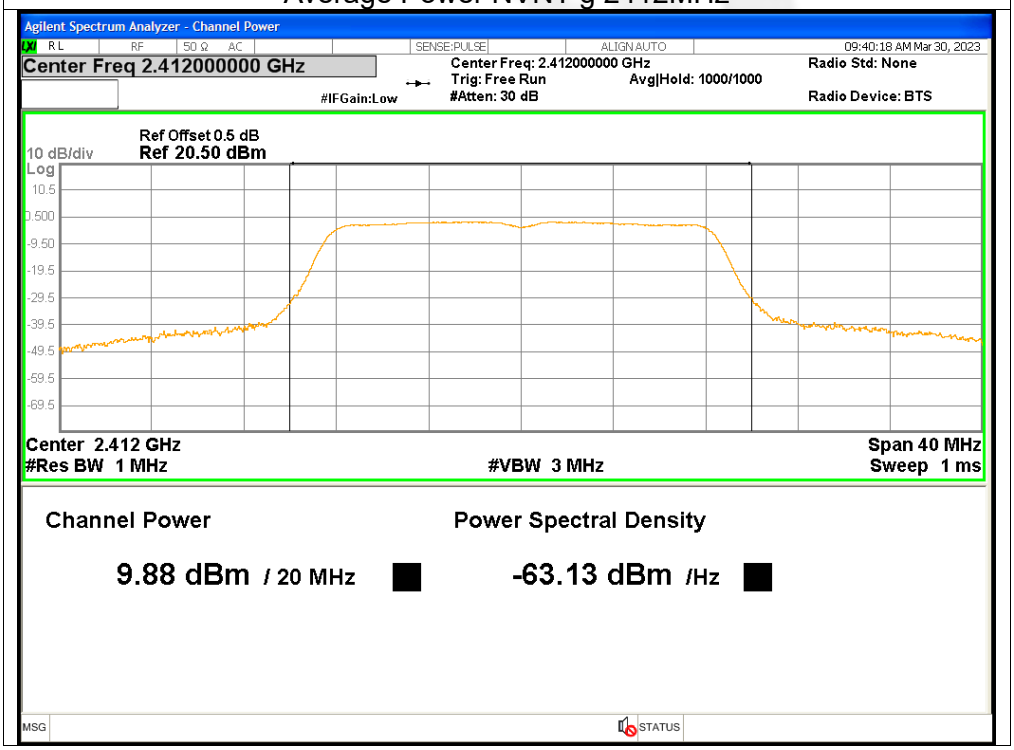
Average Power NVNT b 2437MHz



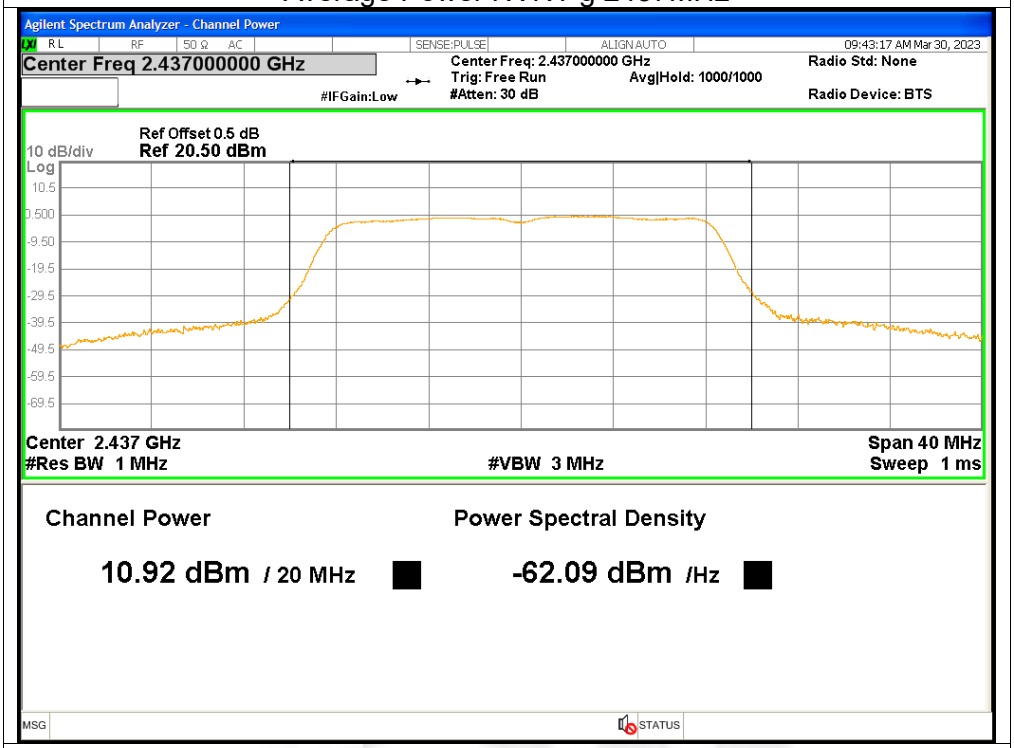
Average Power NVNT b 2462MHz



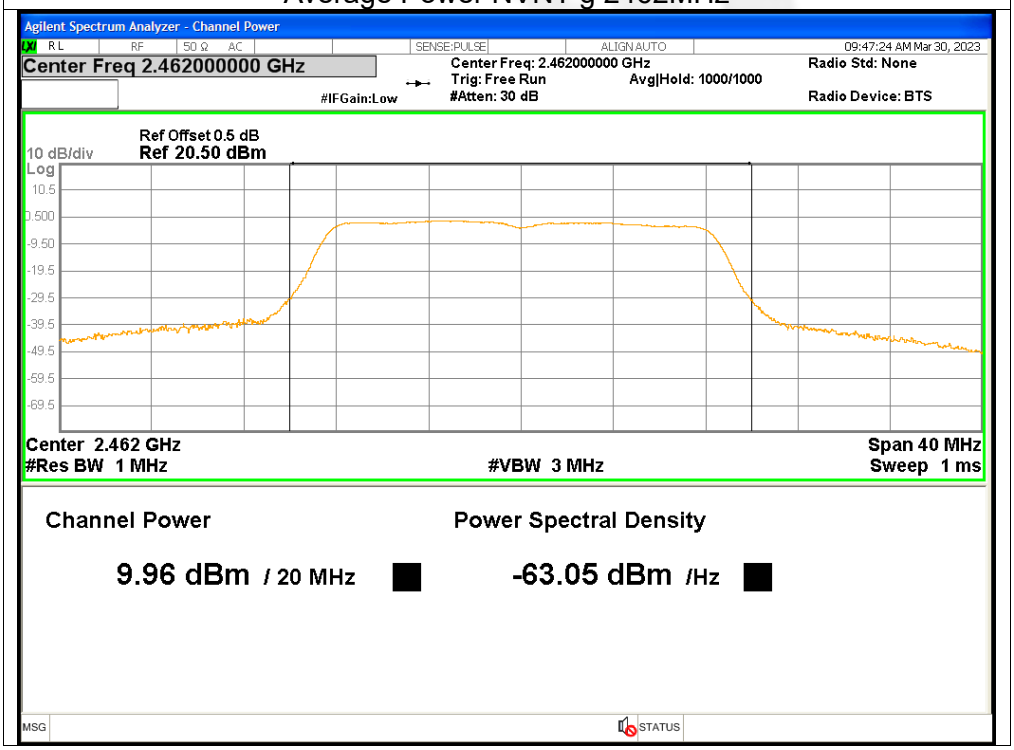
Average Power NVNT g 2412MHz



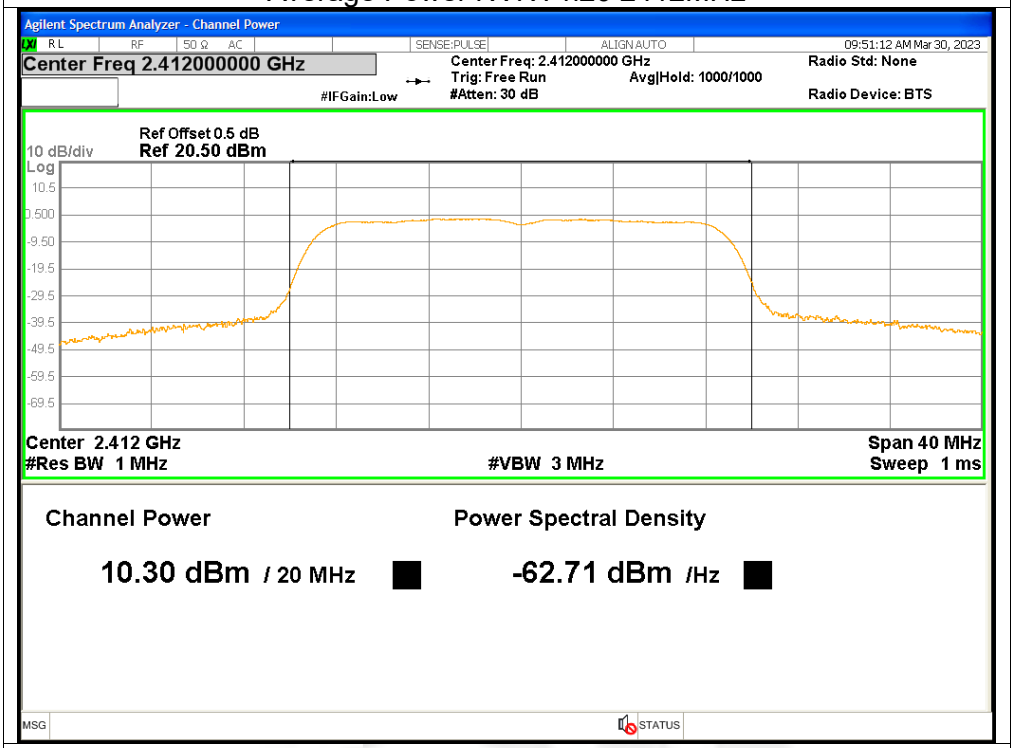
Average Power NVNT g 2437MHz



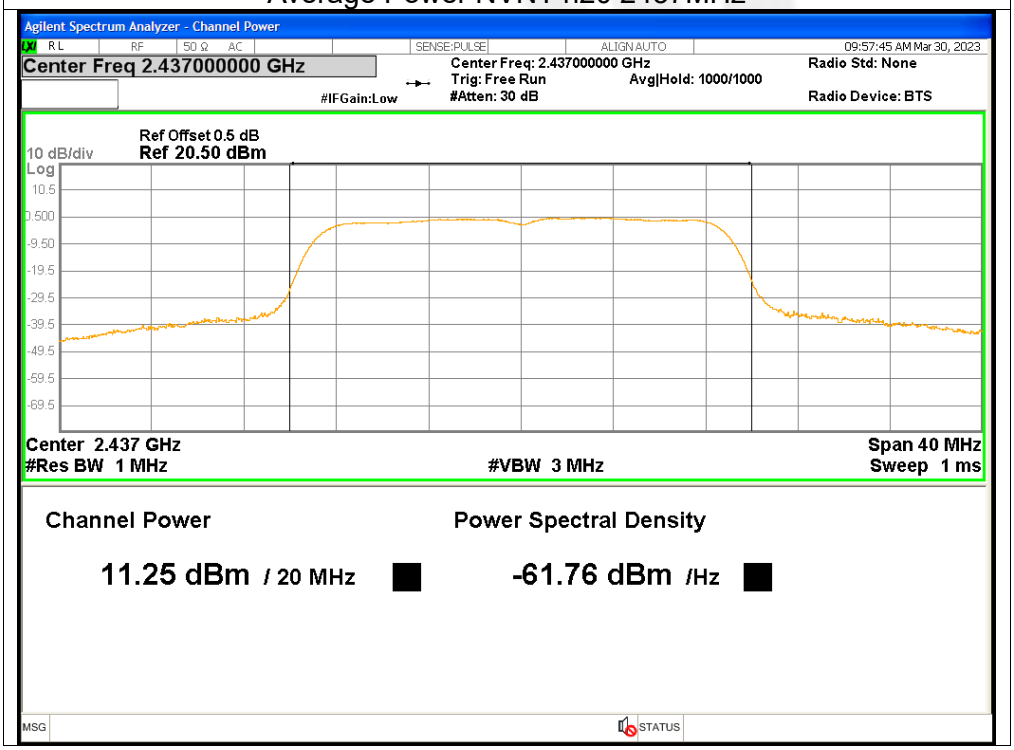
Average Power NVNT g 2462MHz



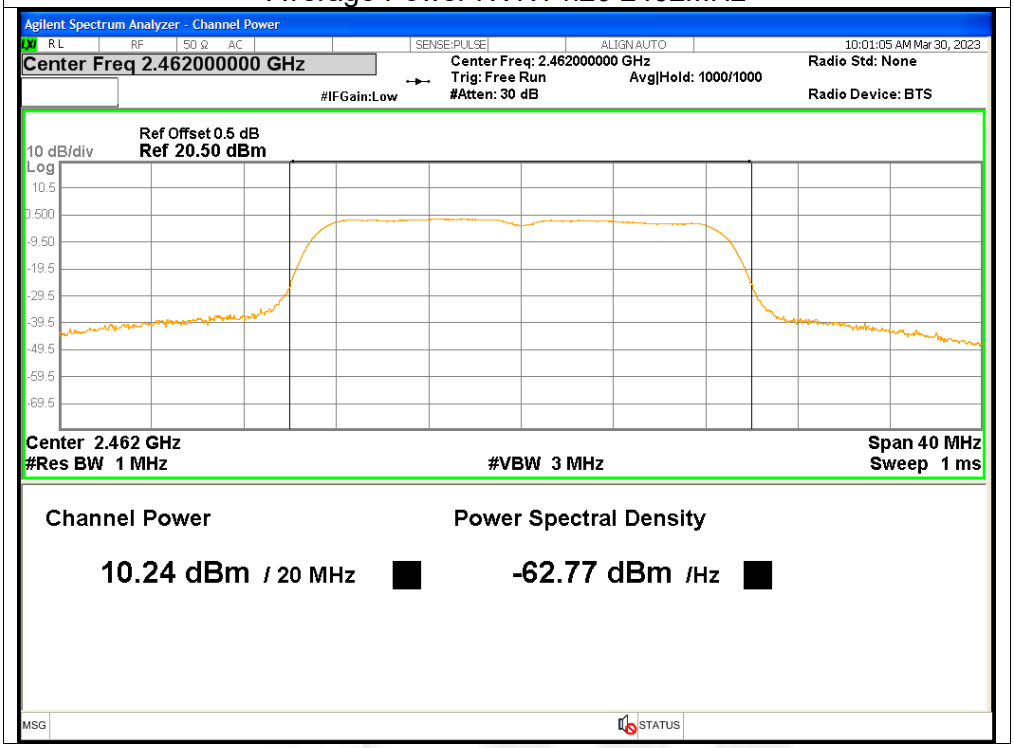
Average Power NVNT n20 2412MHz



Average Power NVNT n20 2437MHz



Average Power NVNT n20 2462MHz

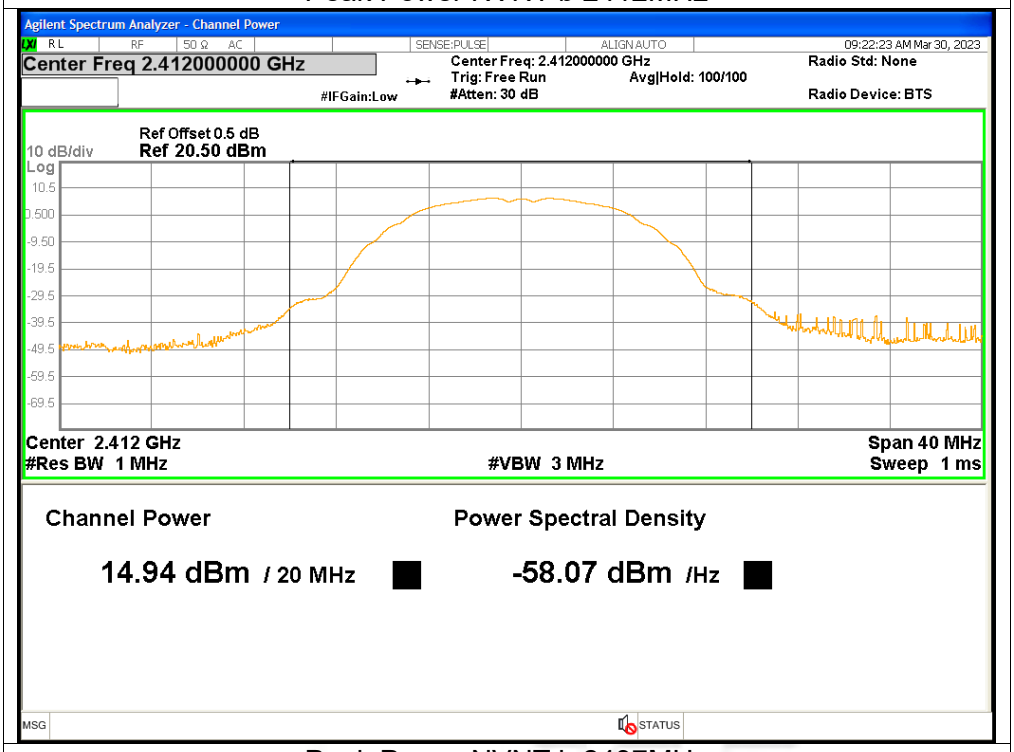


3. Maximum Peak Conducted Output Power

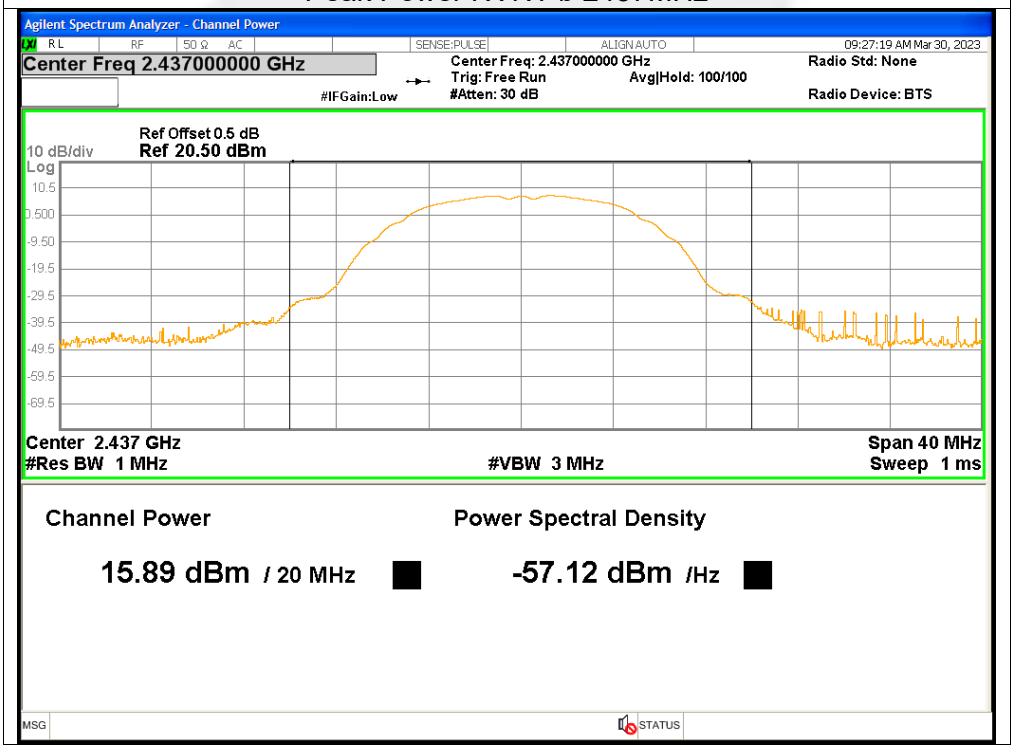
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	14.94	<=30	Pass
NVNT	b	2437	15.89	<=30	Pass
NVNT	b	2462	14.84	<=30	Pass
NVNT	g	2412	19.51	<=30	Pass
NVNT	g	2437	20.55	<=30	Pass
NVNT	g	2462	19.63	<=30	Pass
NVNT	n20	2412	19.9	<=30	Pass
NVNT	n20	2437	20.85	<=30	Pass
NVNT	n20	2462	19.86	<=30	Pass

Test Graphs

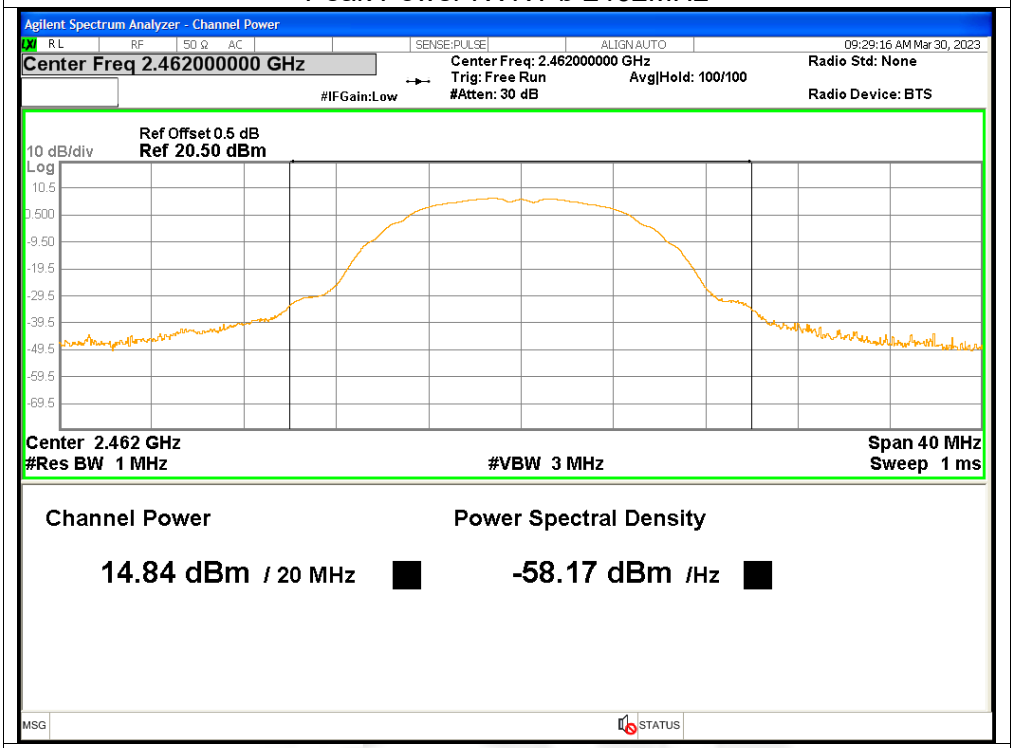
Peak Power NVNT b 2412MHz



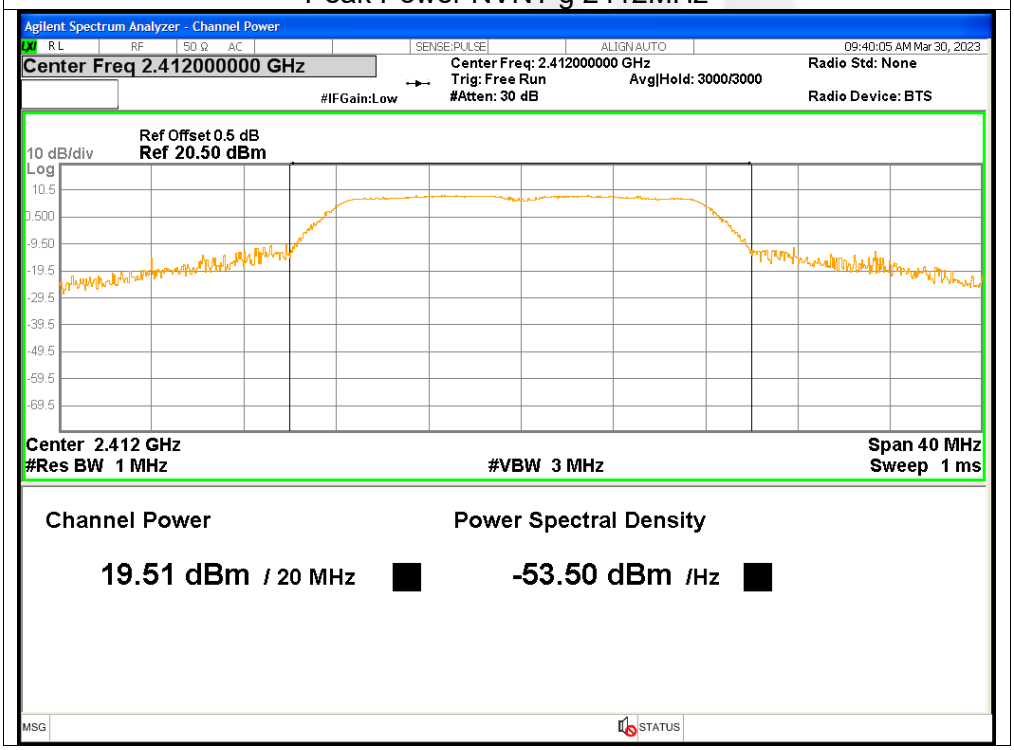
Peak Power NVNT b 2437MHz



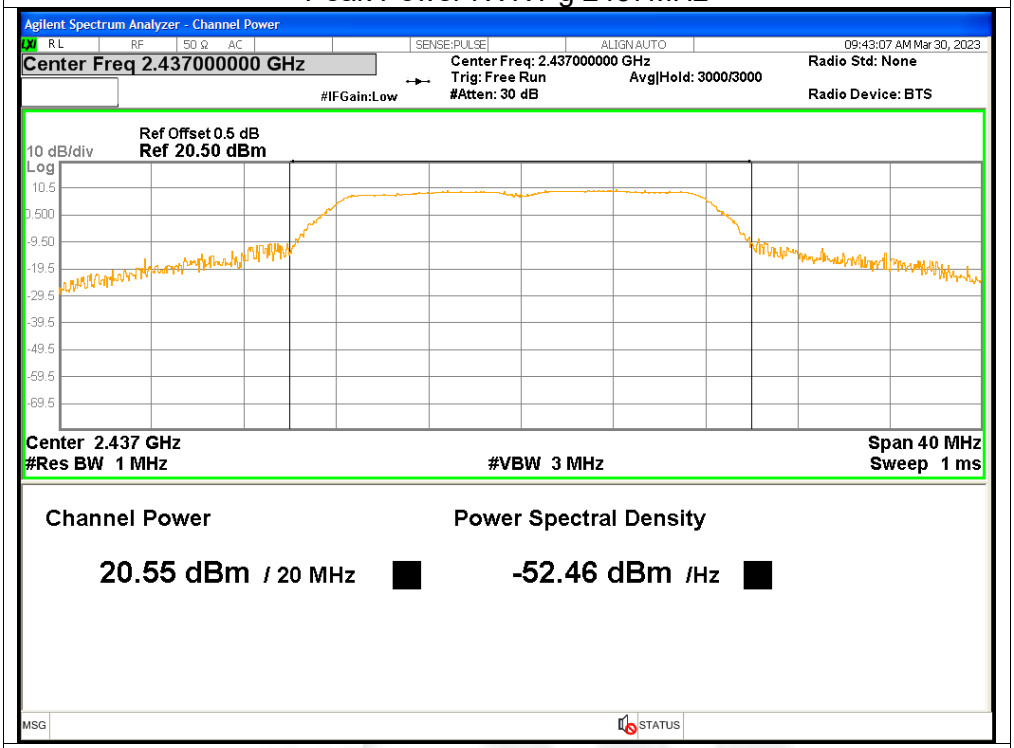
Peak Power NVNT b 2462MHz



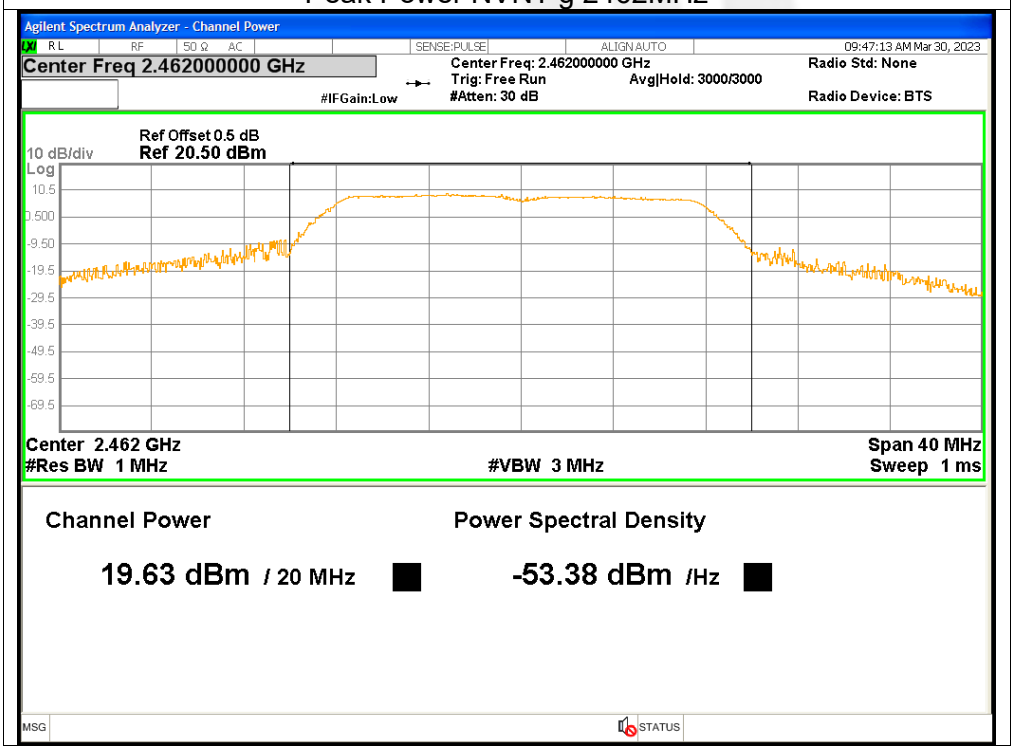
Peak Power NVNT g 2412MHz



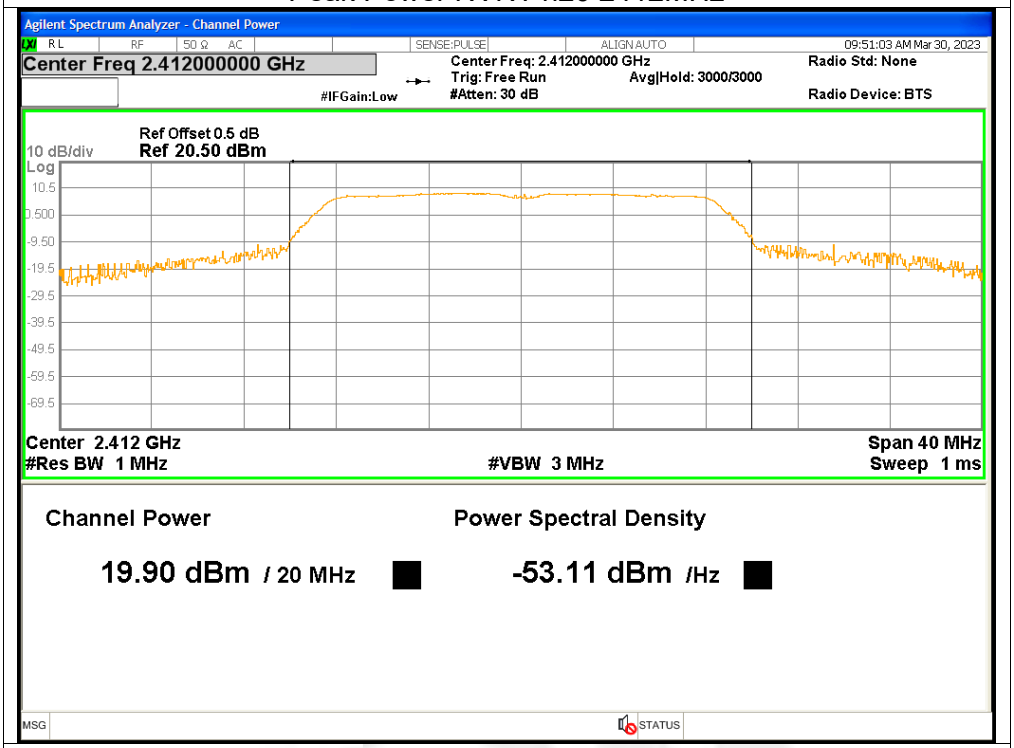
Peak Power NVNT g 2437MHz



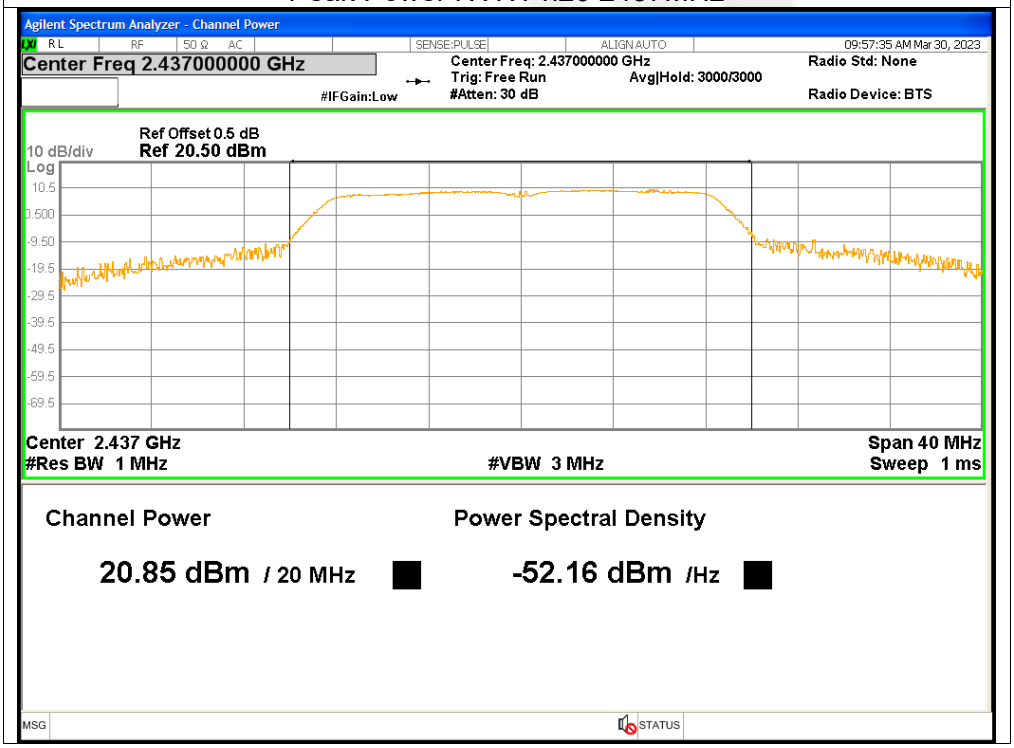
Peak Power NVNT g 2462MHz



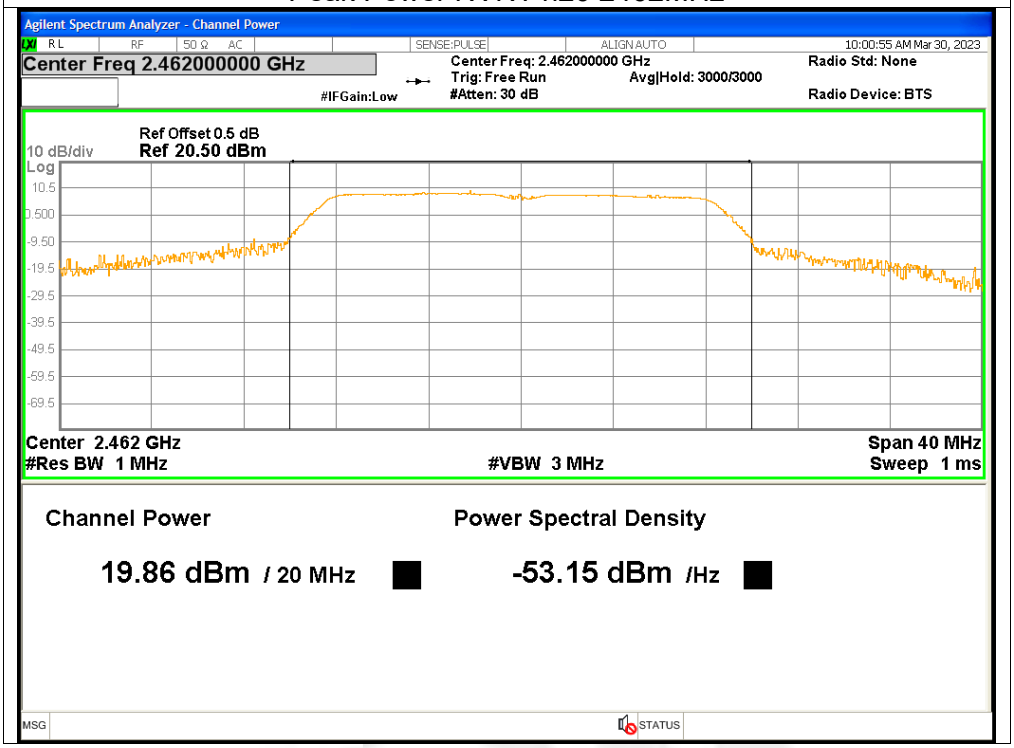
Peak Power NVNT n20 2412MHz



Peak Power NVNT n20 2437MHz



Peak Power NVNT n20 2462MHz

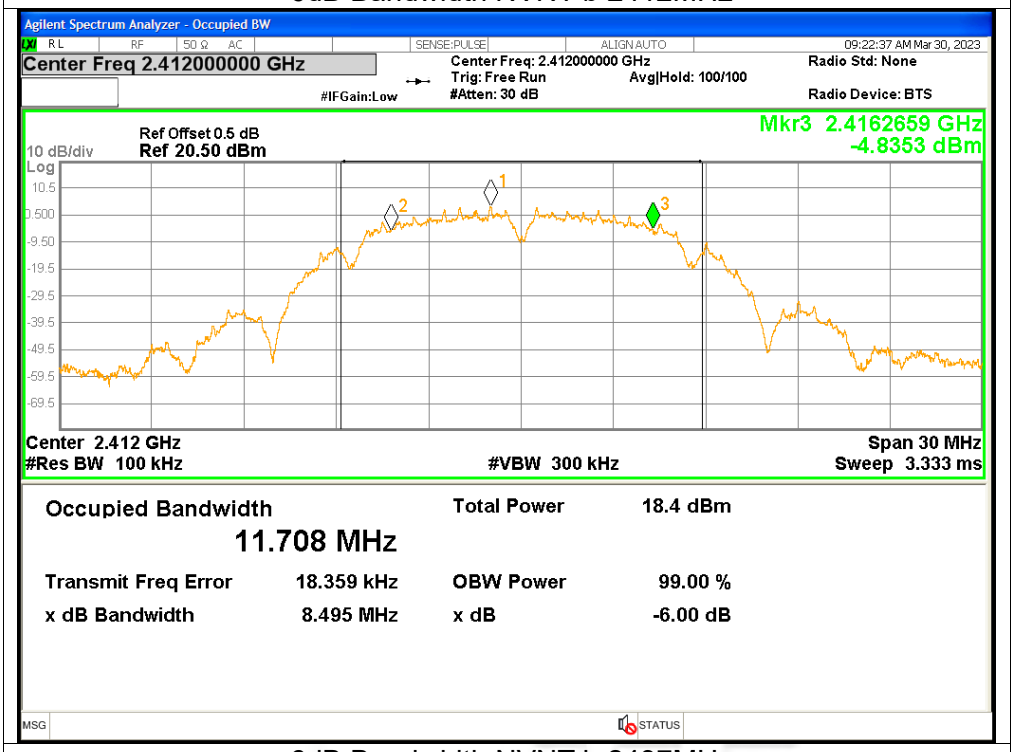


4. -6dB Bandwidth

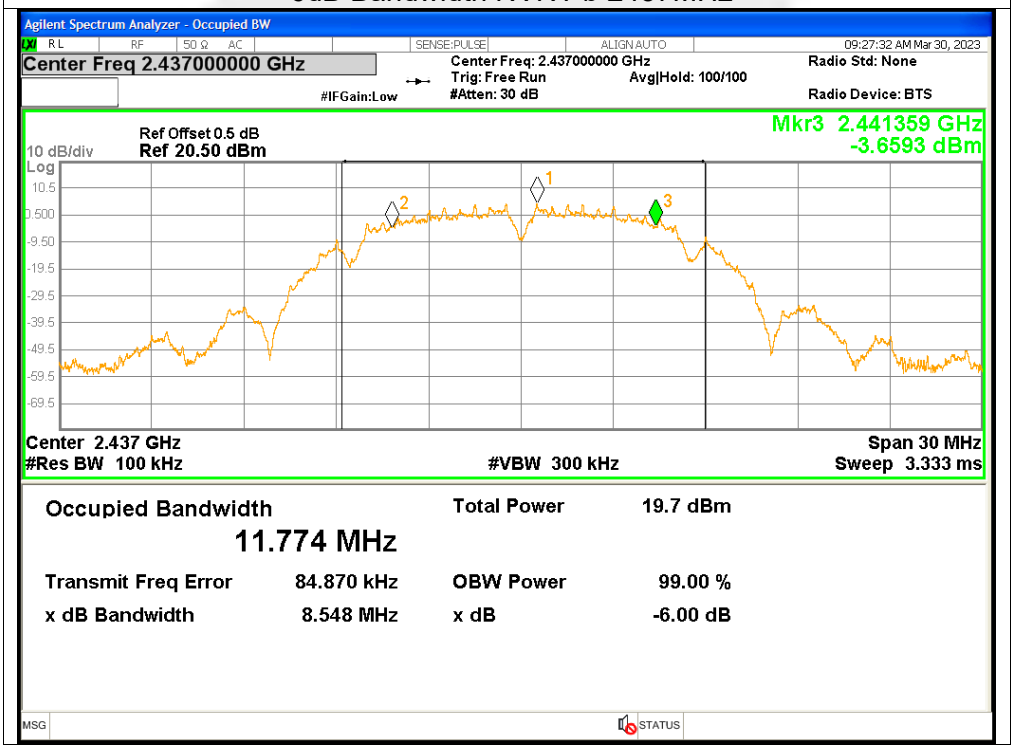
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.4952	>=0.5	Pass
NVNT	b	2437	8.5482	>=0.5	Pass
NVNT	b	2462	8.5764	>=0.5	Pass
NVNT	g	2412	16.2768	>=0.5	Pass
NVNT	g	2437	16.0317	>=0.5	Pass
NVNT	g	2462	16.0703	>=0.5	Pass
NVNT	n20	2412	16.8162	>=0.5	Pass
NVNT	n20	2437	16.4435	>=0.5	Pass
NVNT	n20	2462	16.9371	>=0.5	Pass

Test Graphs

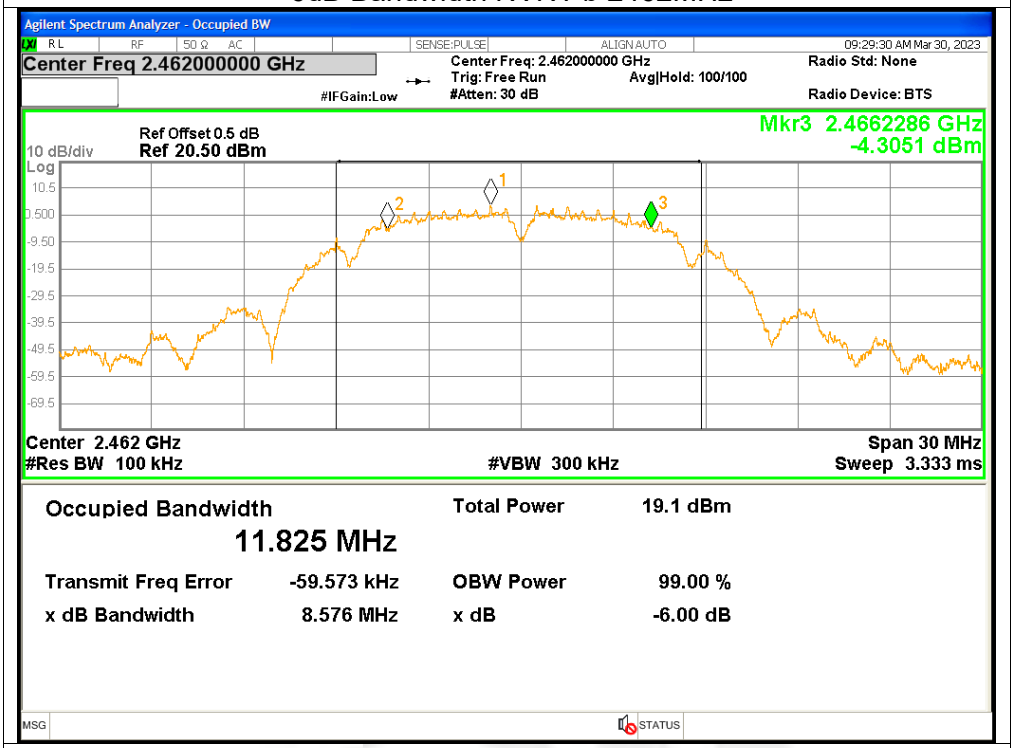
-6dB Bandwidth NVNT b 2412MHz



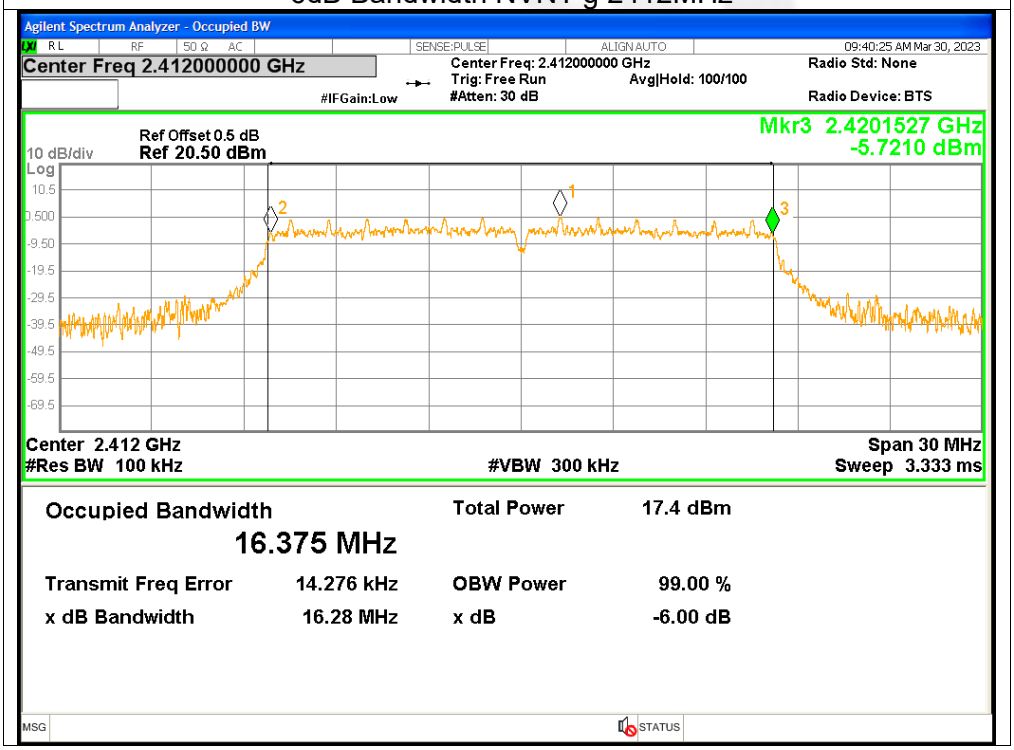
-6dB Bandwidth NVNT b 2437MHz



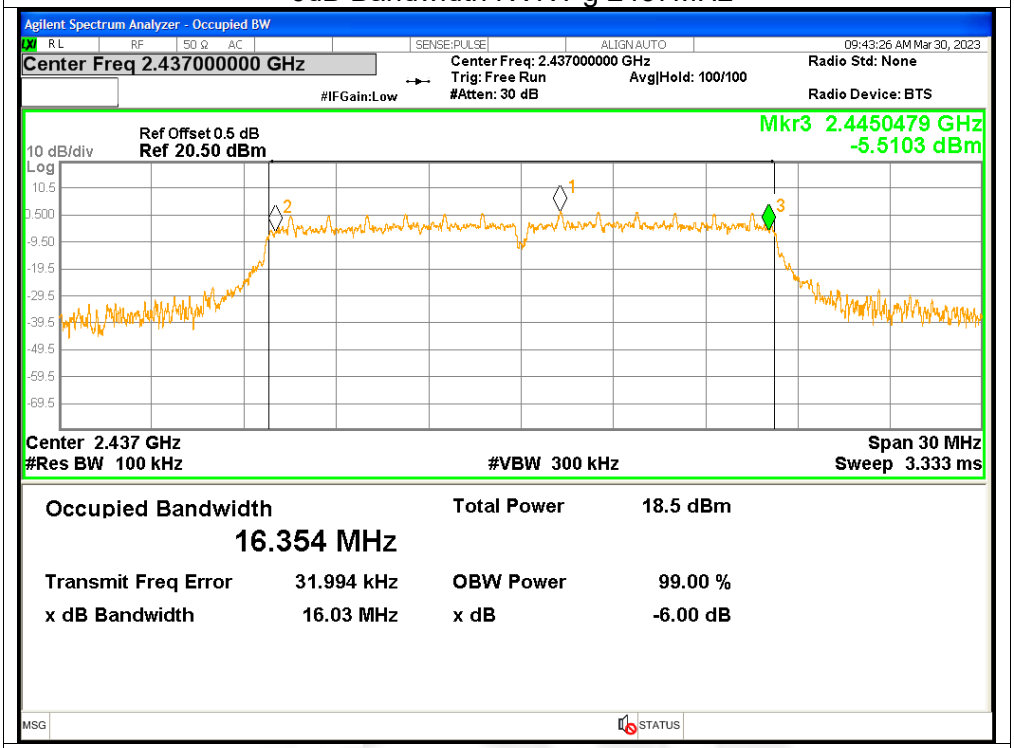
-6dB Bandwidth NVNT b 2462MHz



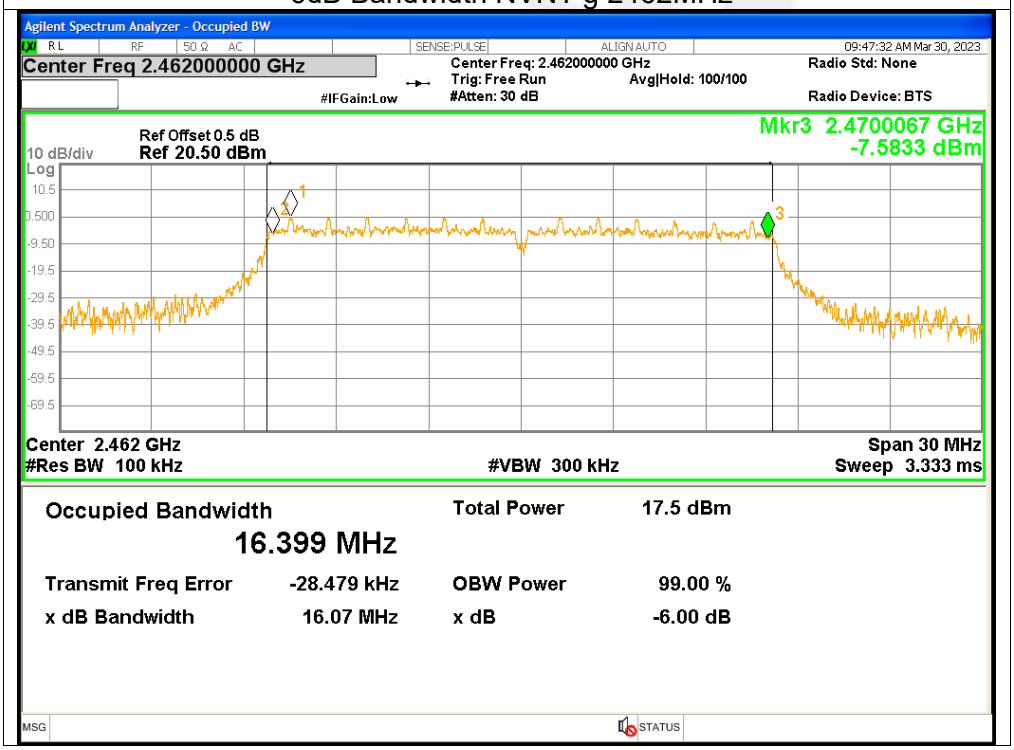
-6dB Bandwidth NVNT g 2412MHz



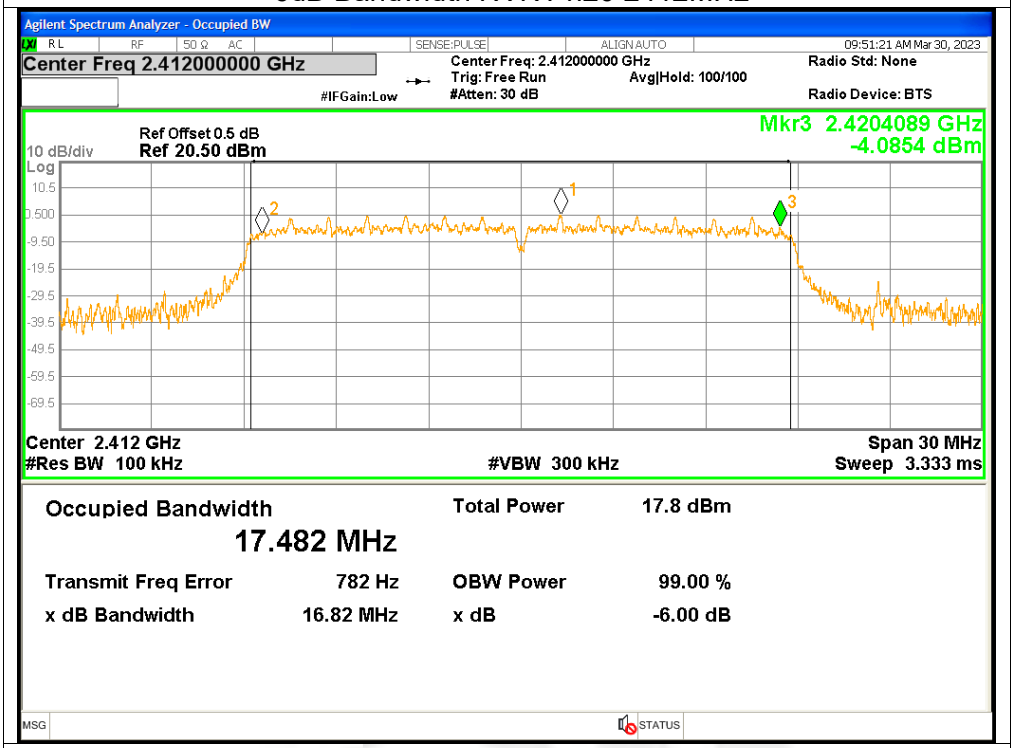
-6dB Bandwidth NVNT g 2437MHz



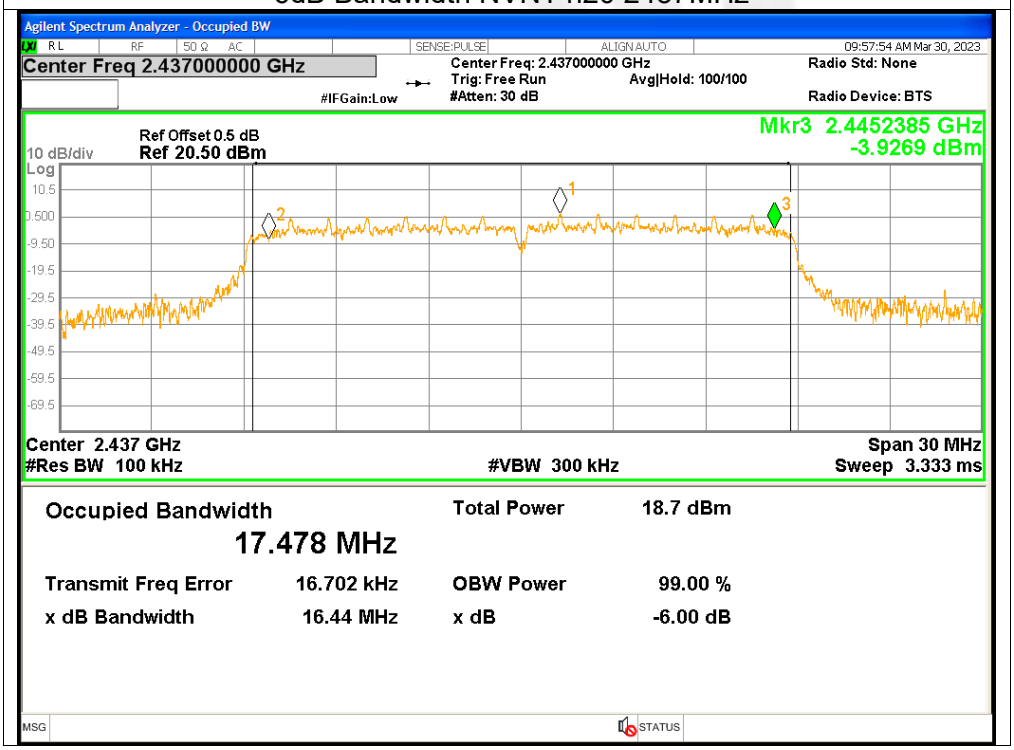
-6dB Bandwidth NVNT g 2462MHz



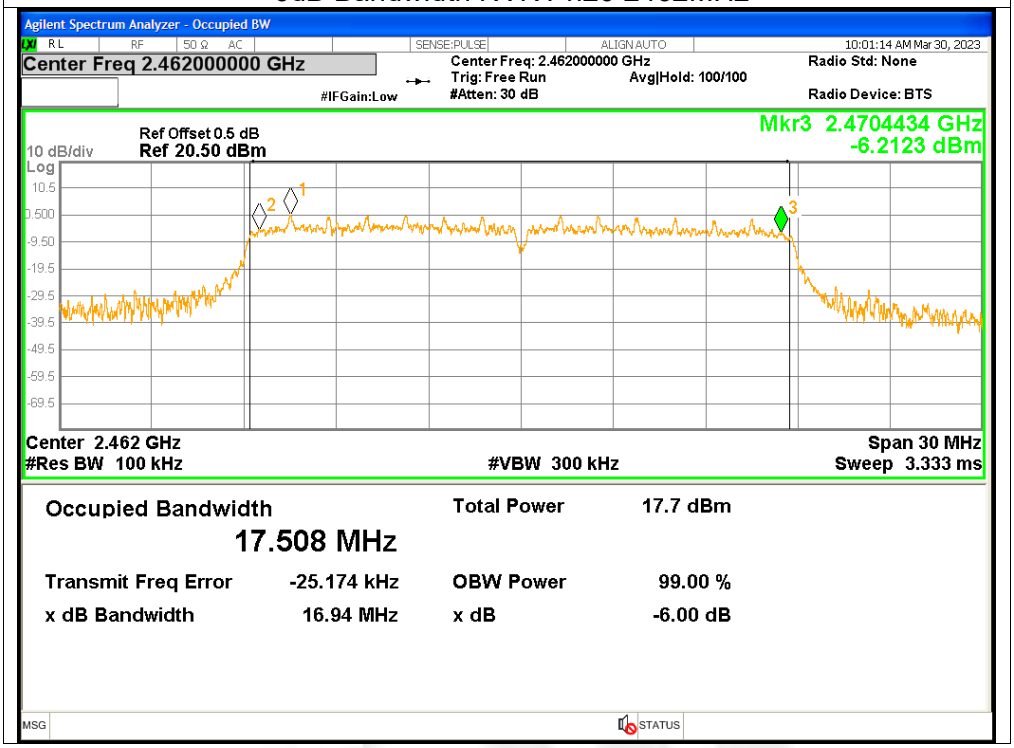
-6dB Bandwidth NVNT n20 2412MHz



-6dB Bandwidth NVNT n20 2437MHz



-6dB Bandwidth NVNT n20 2462MHz

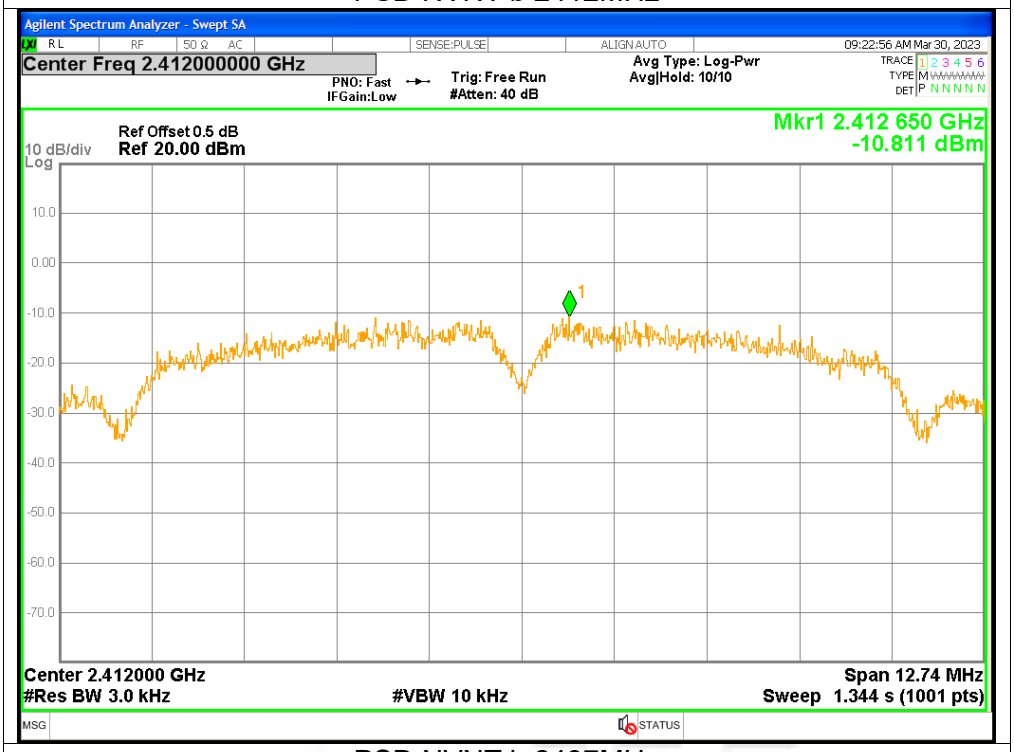


5. Maximum Power Spectral Density Level

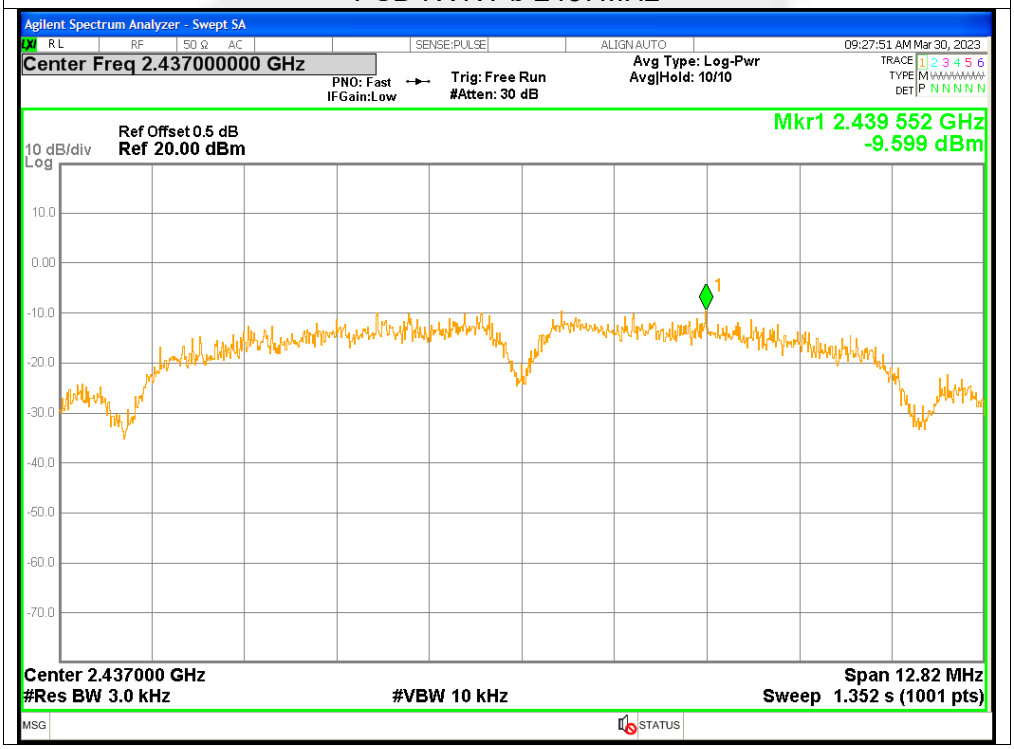
Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-10.81	<=8	Pass
NVNT	b	2437	-9.6	<=8	Pass
NVNT	b	2462	-10.24	<=8	Pass
NVNT	g	2412	-14.13	<=8	Pass
NVNT	g	2437	-10.23	<=8	Pass
NVNT	g	2462	-14.37	<=8	Pass
NVNT	n20	2412	-13.67	<=8	Pass
NVNT	n20	2437	-12.05	<=8	Pass
NVNT	n20	2462	-13.35	<=8	Pass

Test Graphs

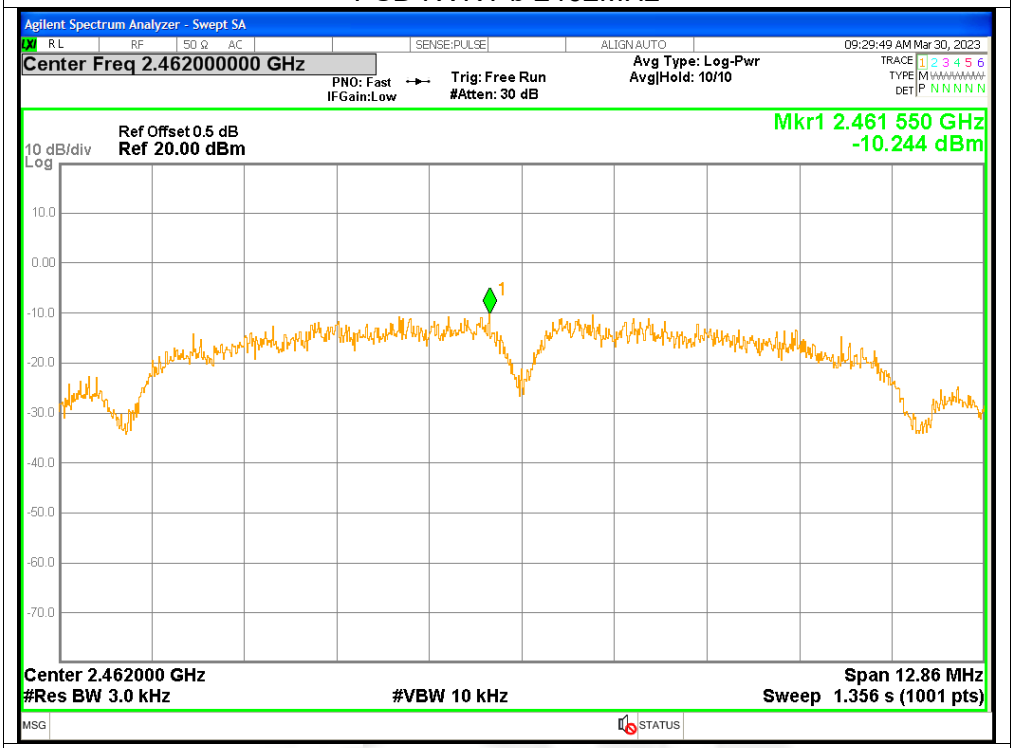
PSD NVNT b 2412MHz



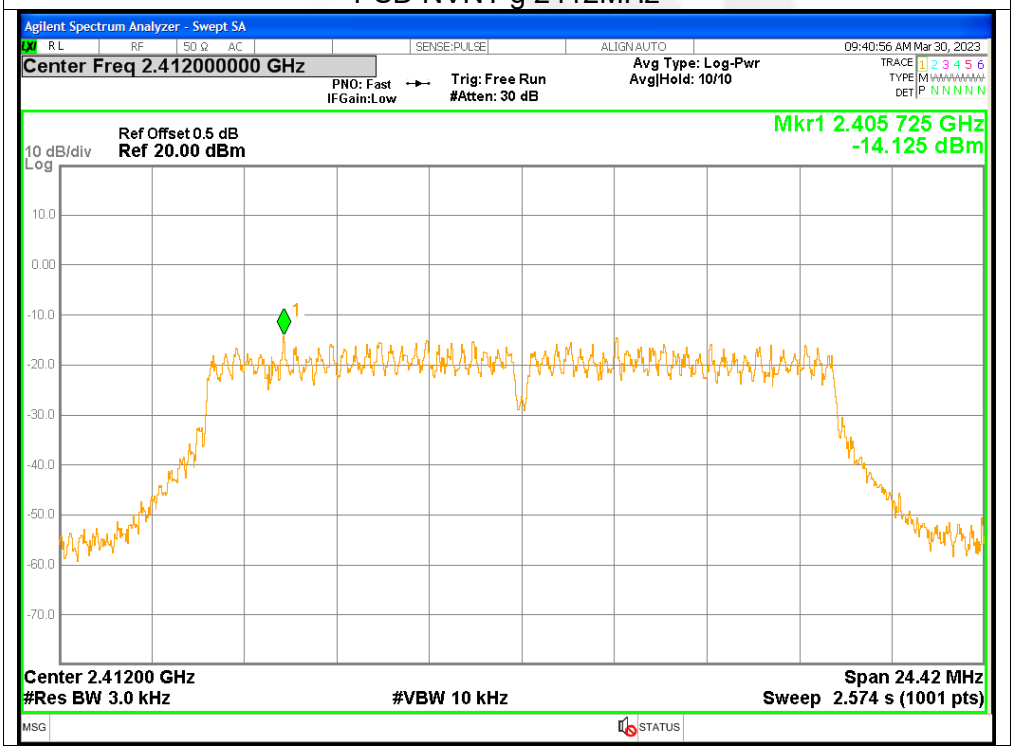
PSD NVNT b 2437MHz



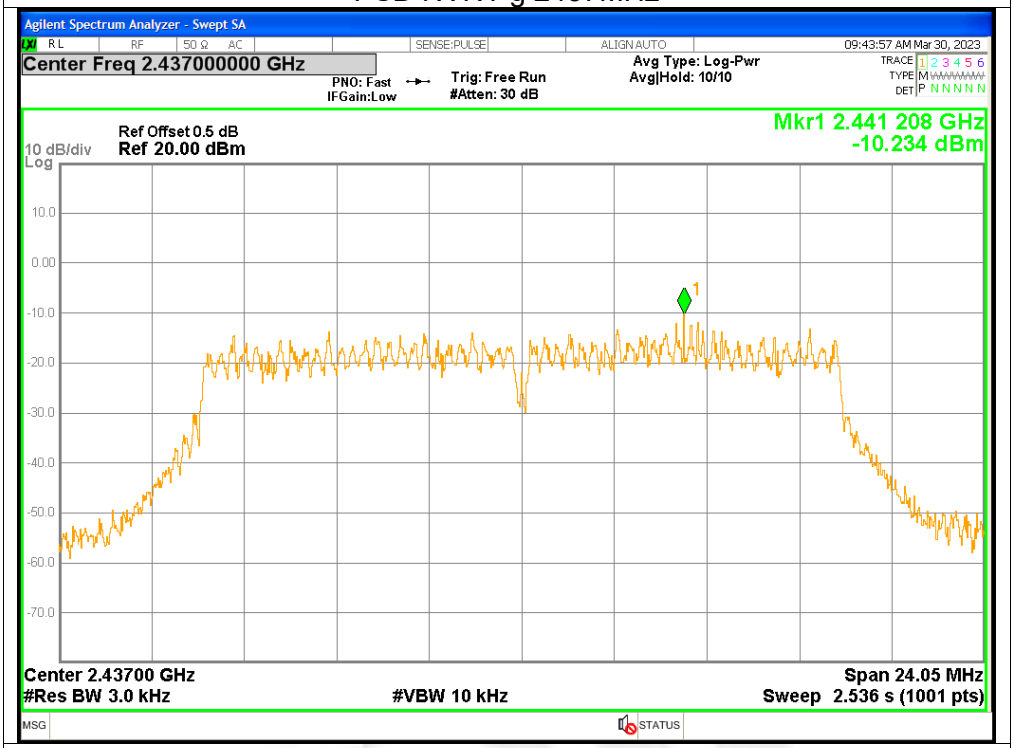
PSD NVNT b 2462MHz



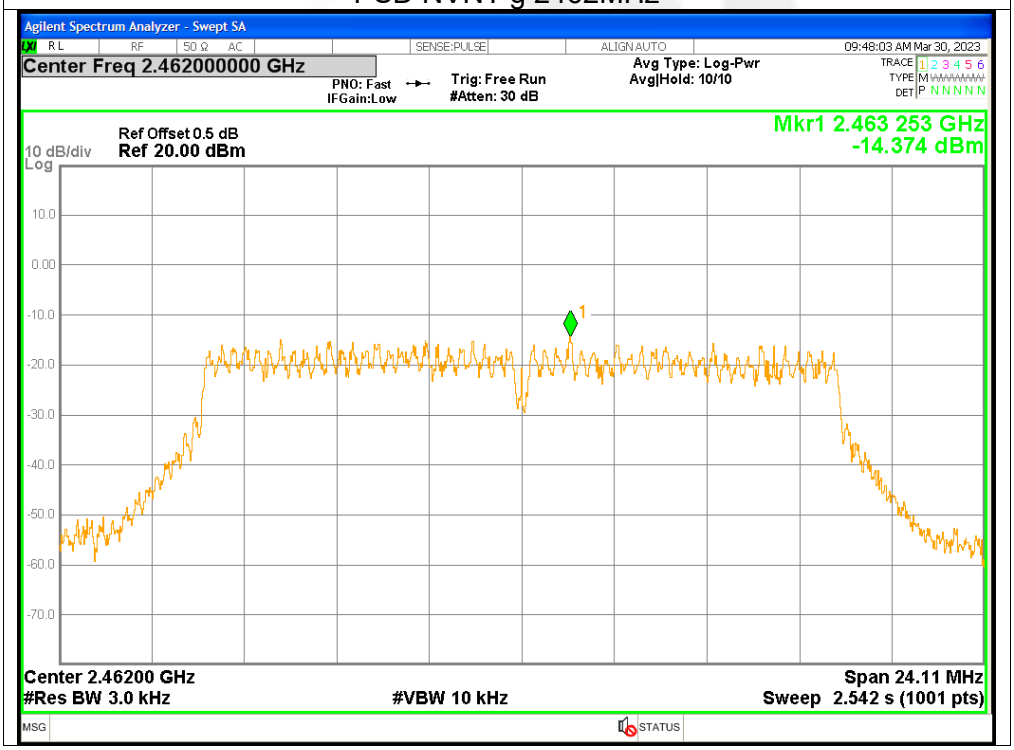
PSD NVNT g 2412MHz



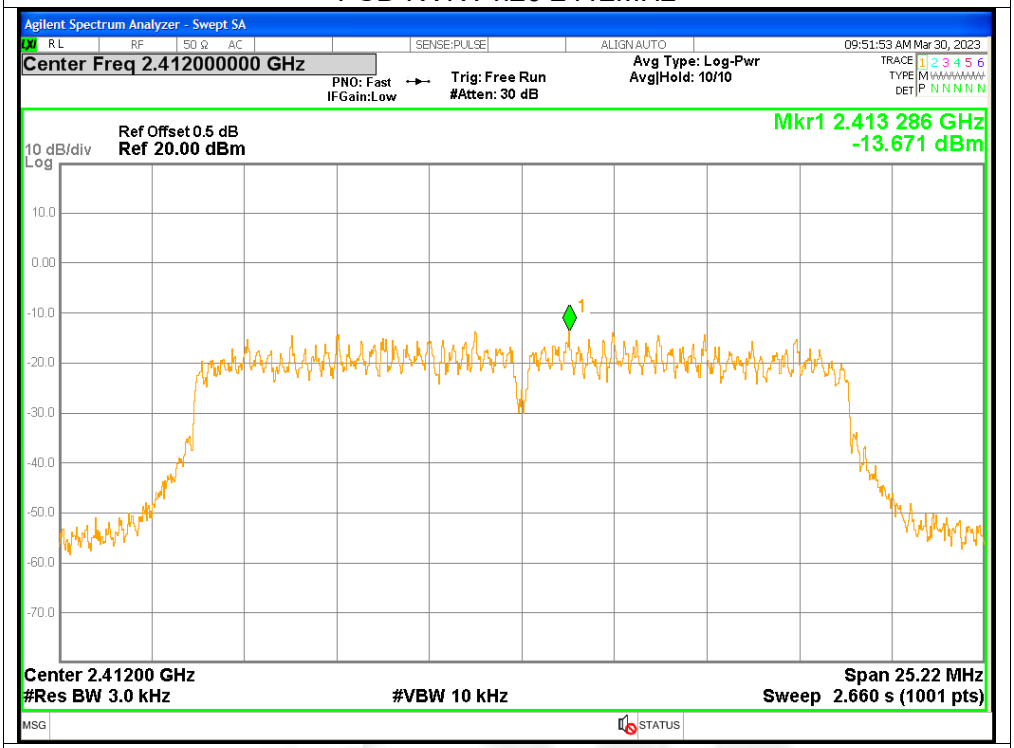
PSD NVNT g 2437MHz



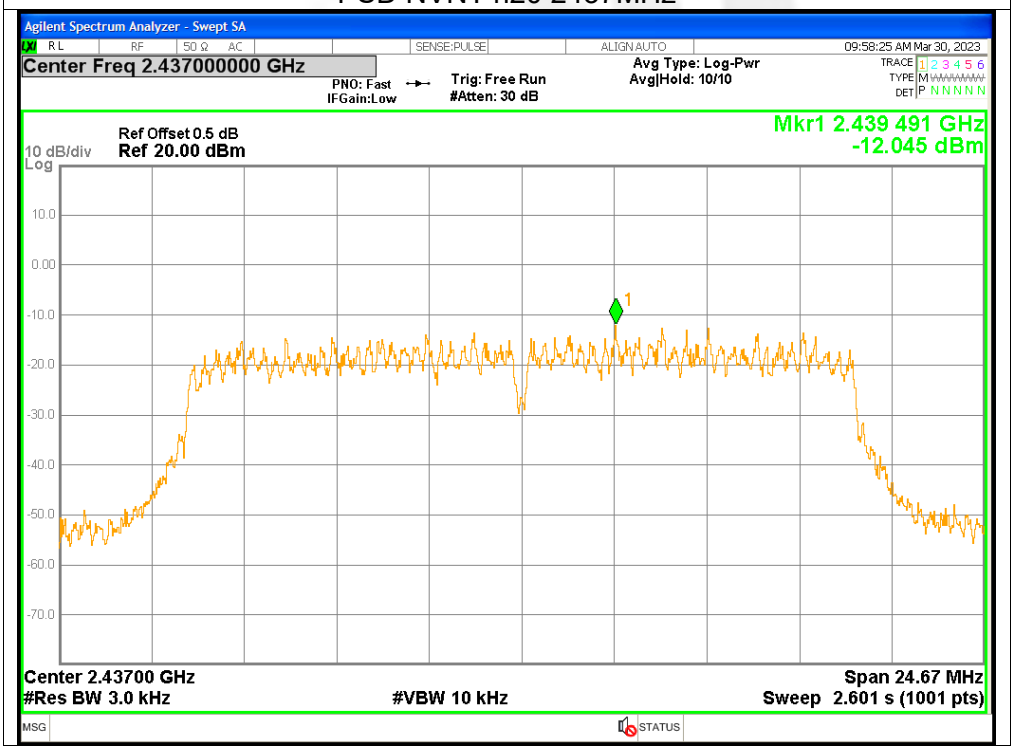
PSD NVNT g 2462MHz



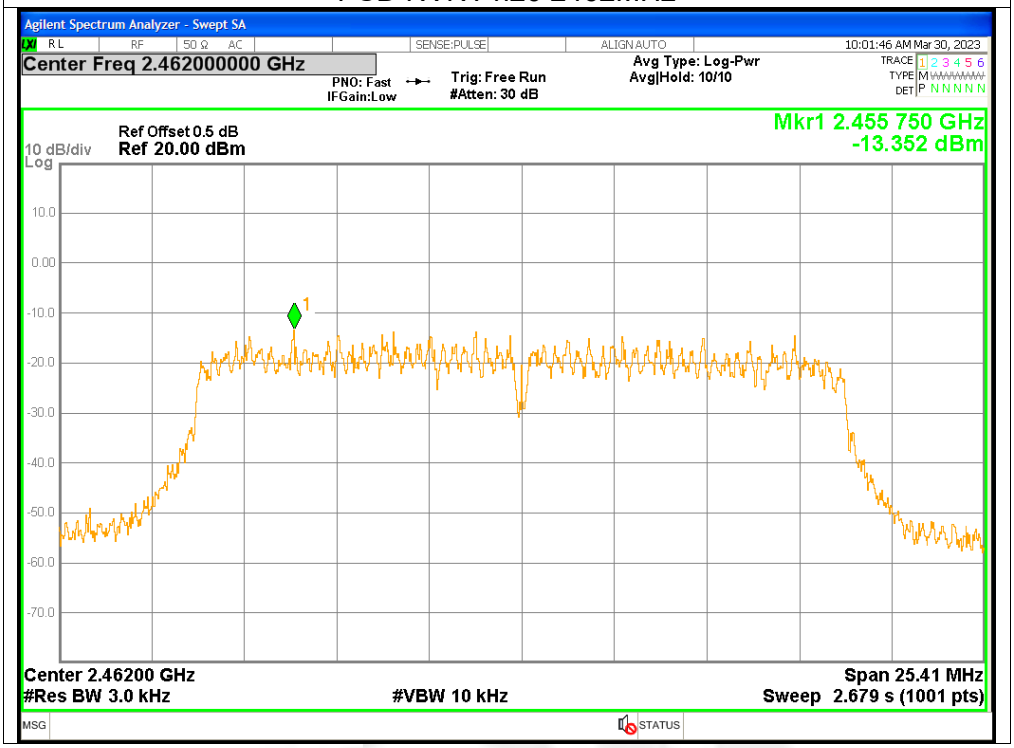
PSD NVNT n20 2412MHz



PSD NVNT n20 2437MHz



PSD NVNT n20 2462MHz

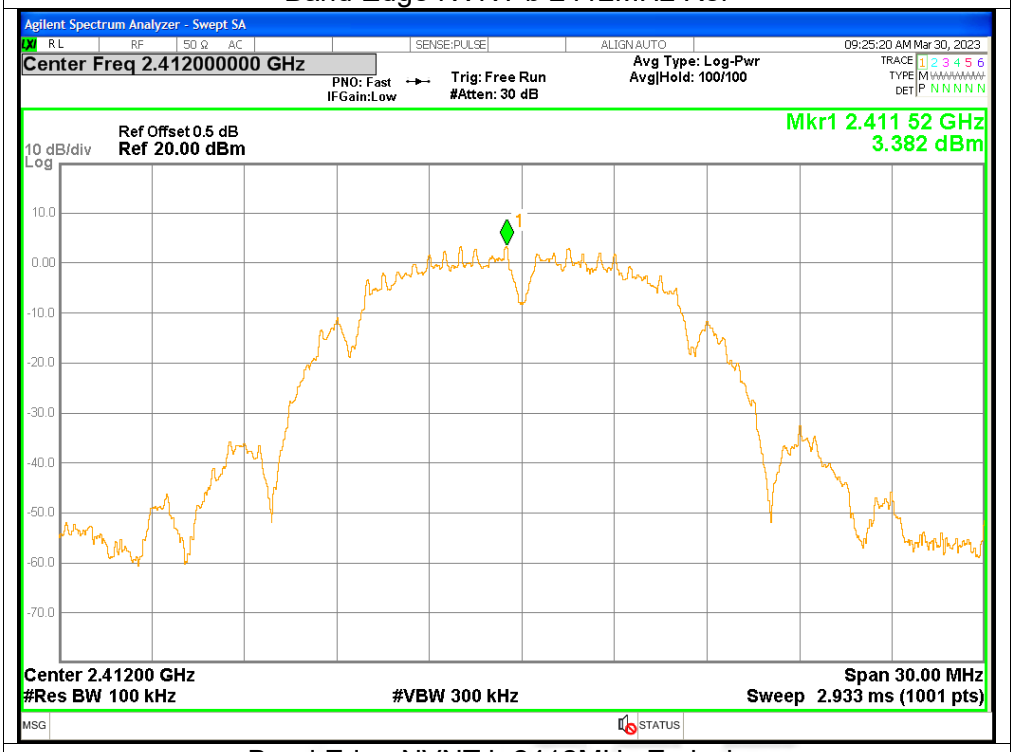


6. Band Edge

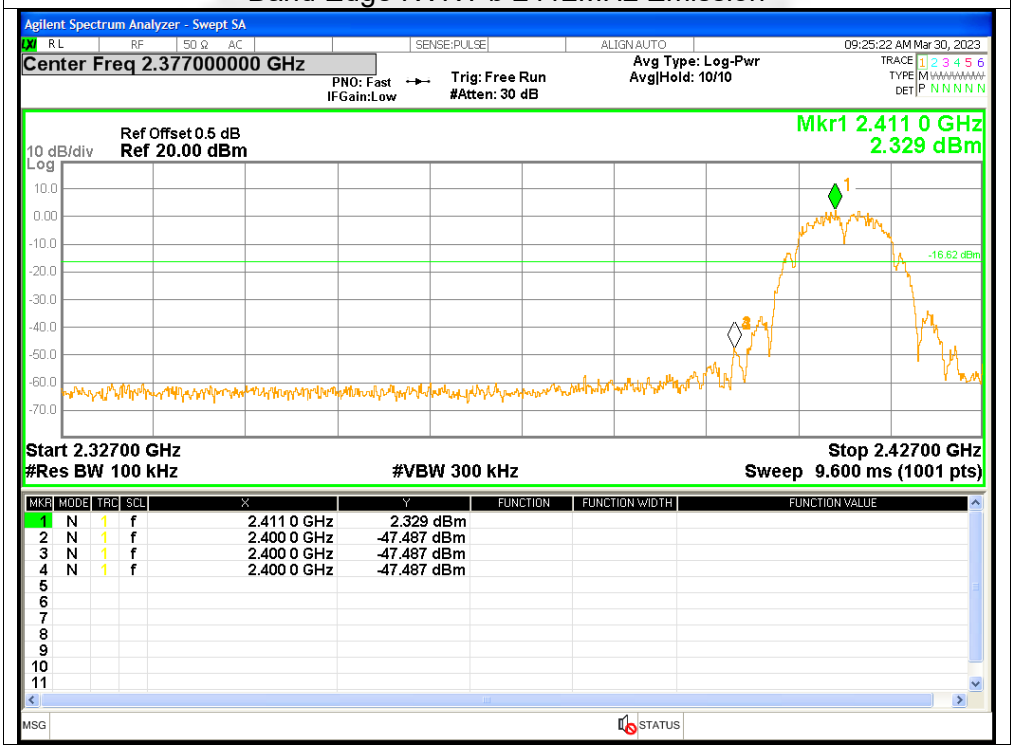
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-50.86	<=-20	Pass
NVNT	b	2462	-62.99	<=-20	Pass
NVNT	g	2412	-30.66	<=-20	Pass
NVNT	g	2462	-43.68	<=-20	Pass
NVNT	n20	2412	-29.61	<=-20	Pass
NVNT	n20	2462	-42.3	<=-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ref

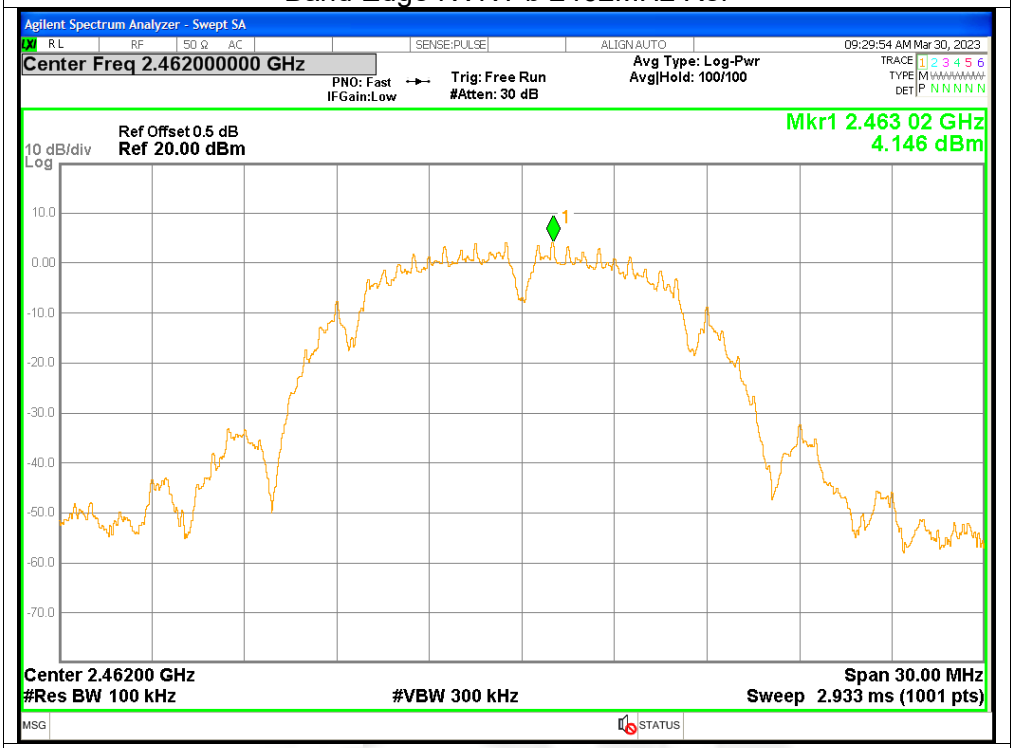


Band Edge NVNT b 2412MHz Emission

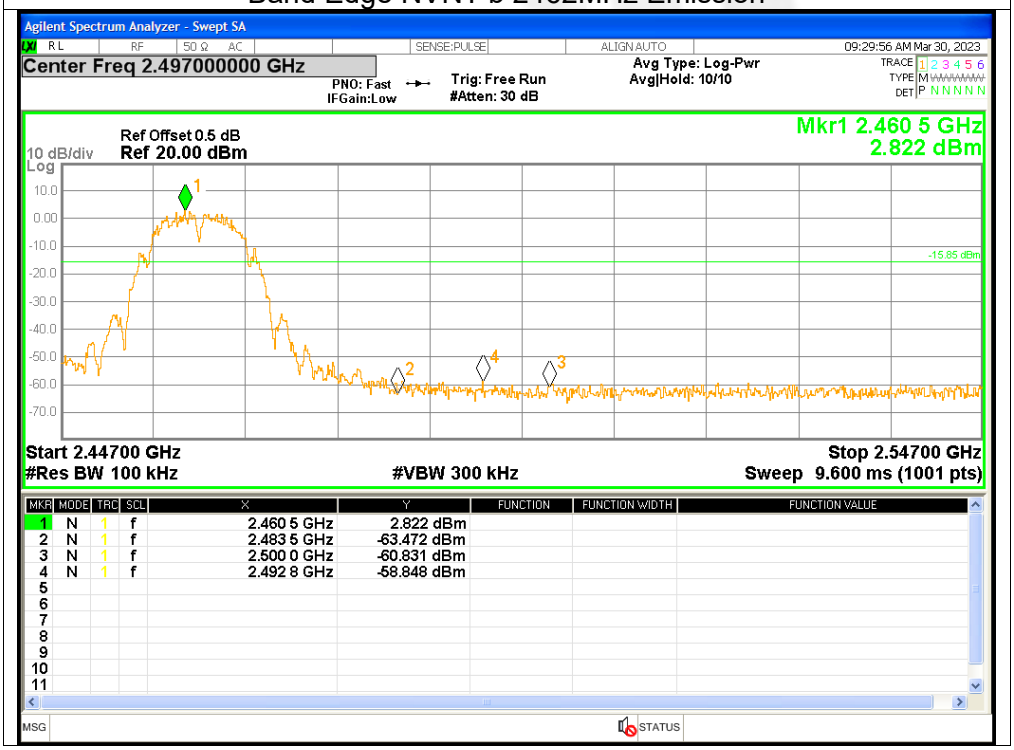


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.411 0 GHz	2.329 dBm			
2	N	1	f	2.400 0 GHz	-47.487 dBm			
3	N	1	f	2.400 0 GHz	-47.487 dBm			
4	N	1	f	2.400 0 GHz	-47.487 dBm			
5								
6								
7								
8								
9								
10								
11								

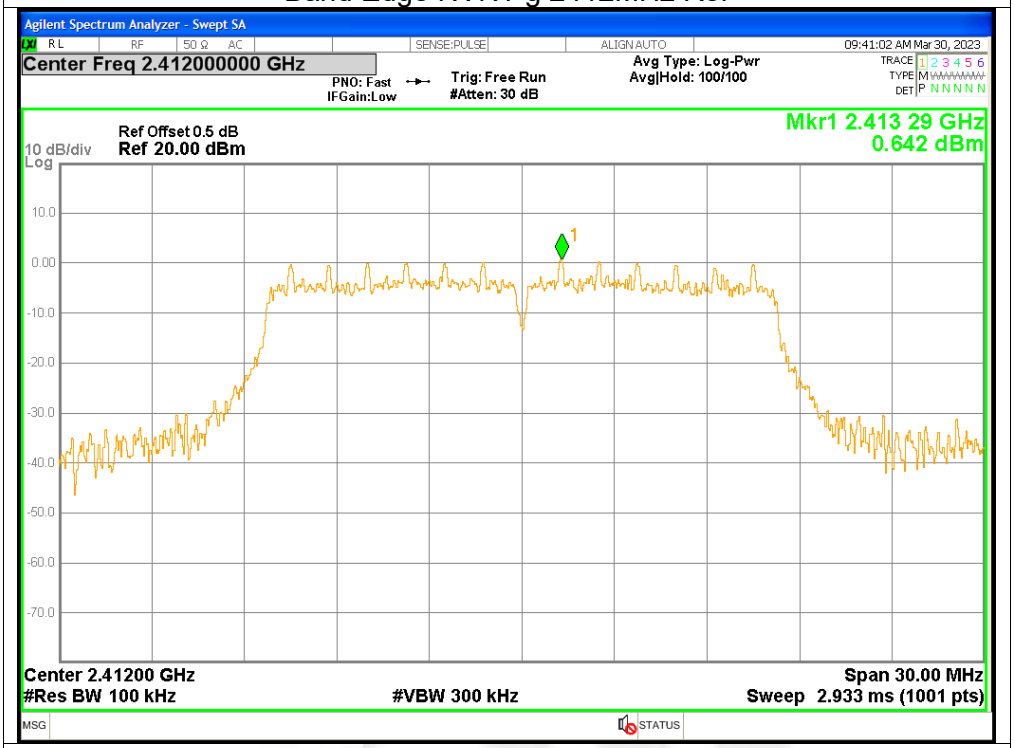
Band Edge NVNT b 2462MHz Ref



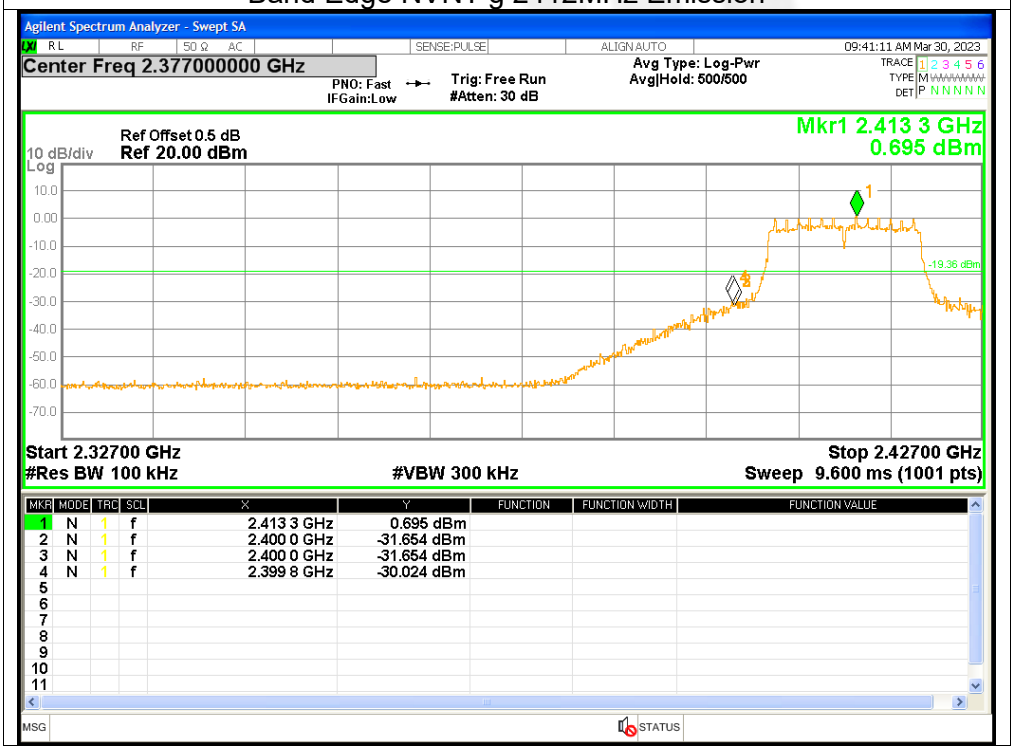
Band Edge NVNT b 2462MHz Emission



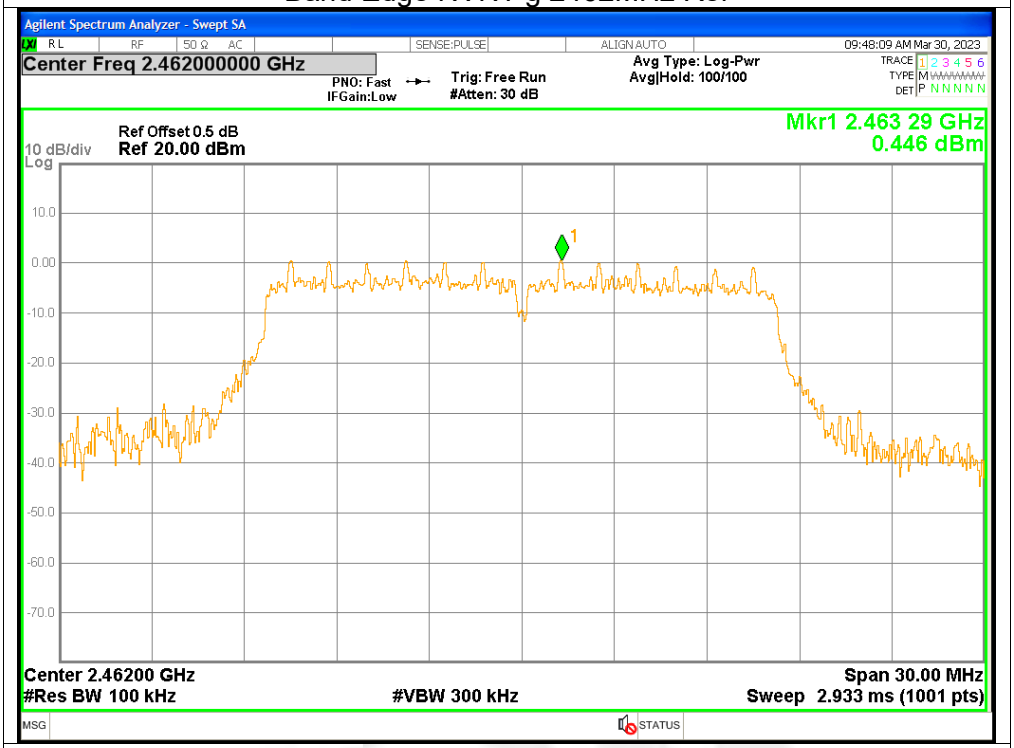
Band Edge NVNT g 2412MHz Ref



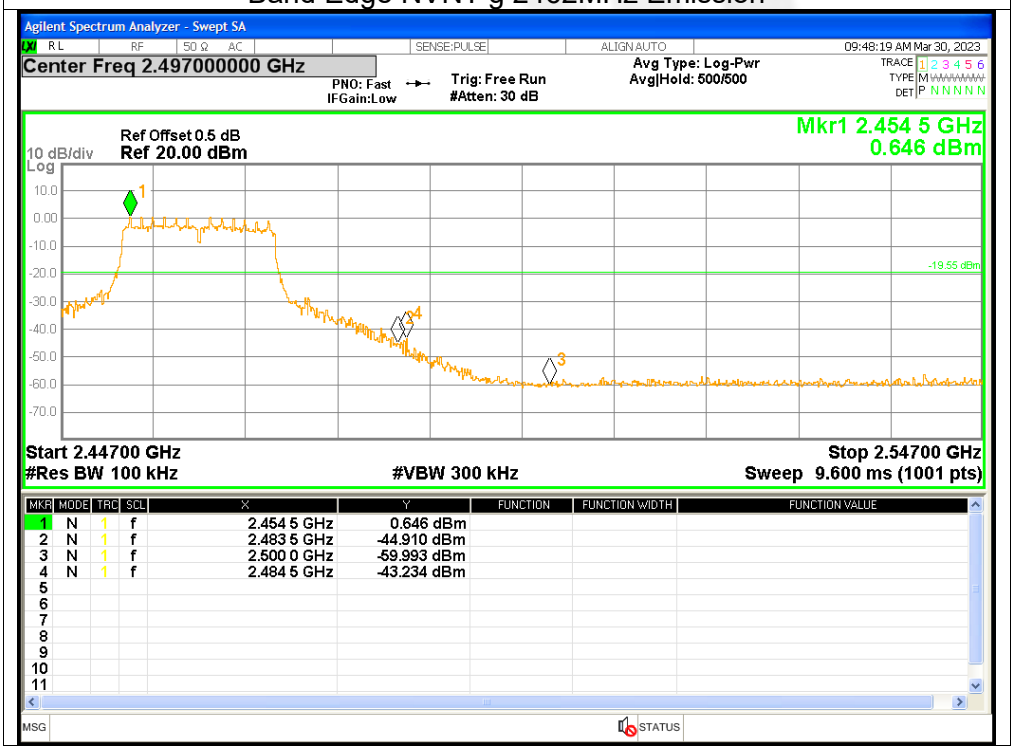
Band Edge NVNT g 2412MHz Emission



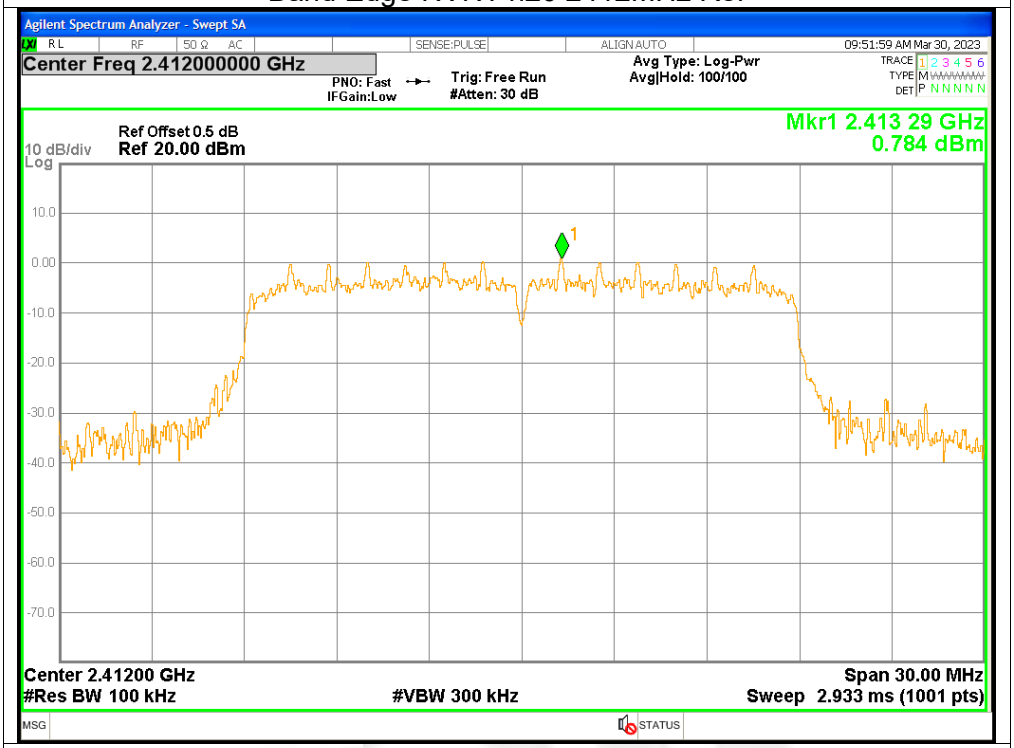
Band Edge NVNT g 2462MHz Ref



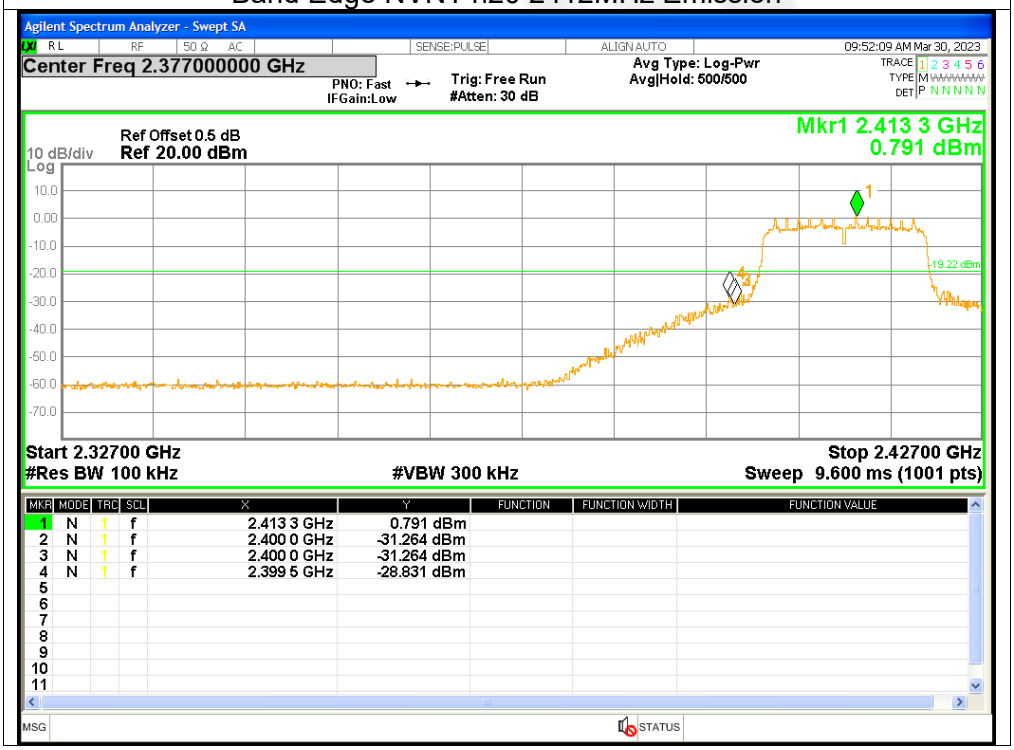
Band Edge NVNT g 2462MHz Emission



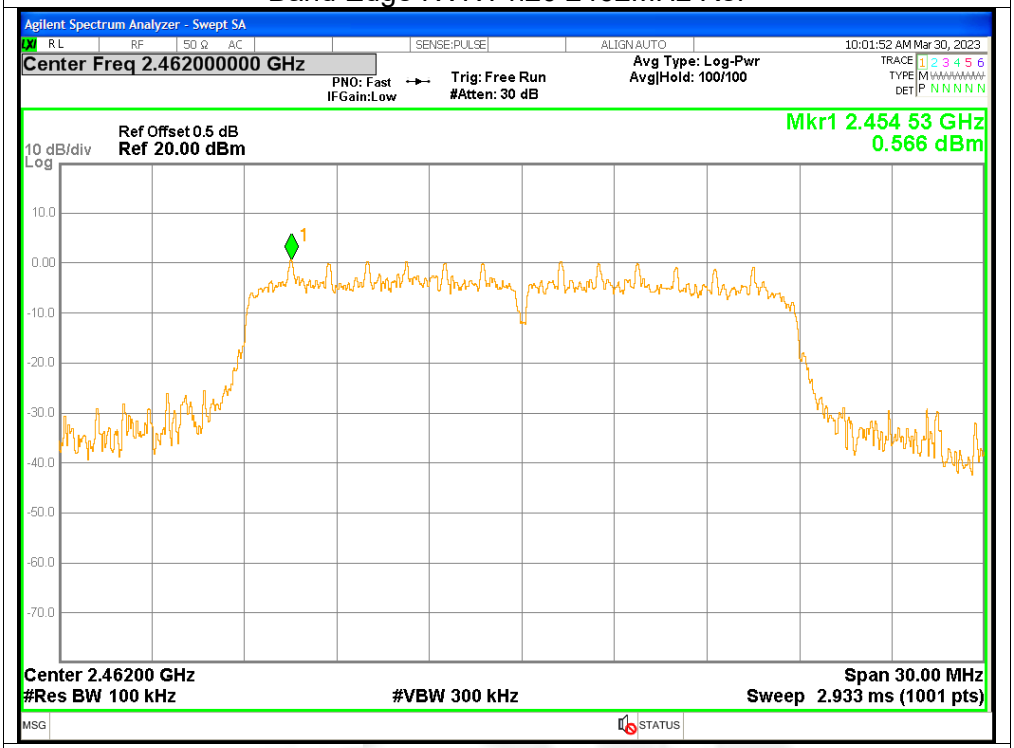
Band Edge NVNT n20 2412MHz Ref



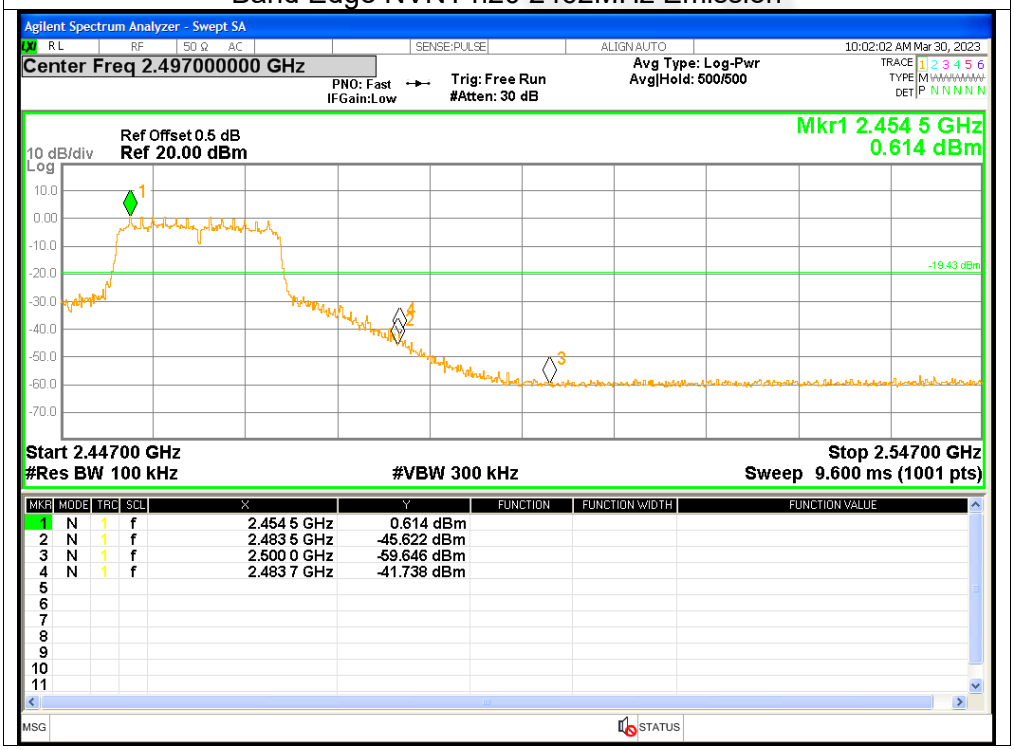
Band Edge NVNT n20 2412MHz Emission



Band Edge NVNT n20 2462MHz Ref



Band Edge NVNT n20 2462MHz Emission

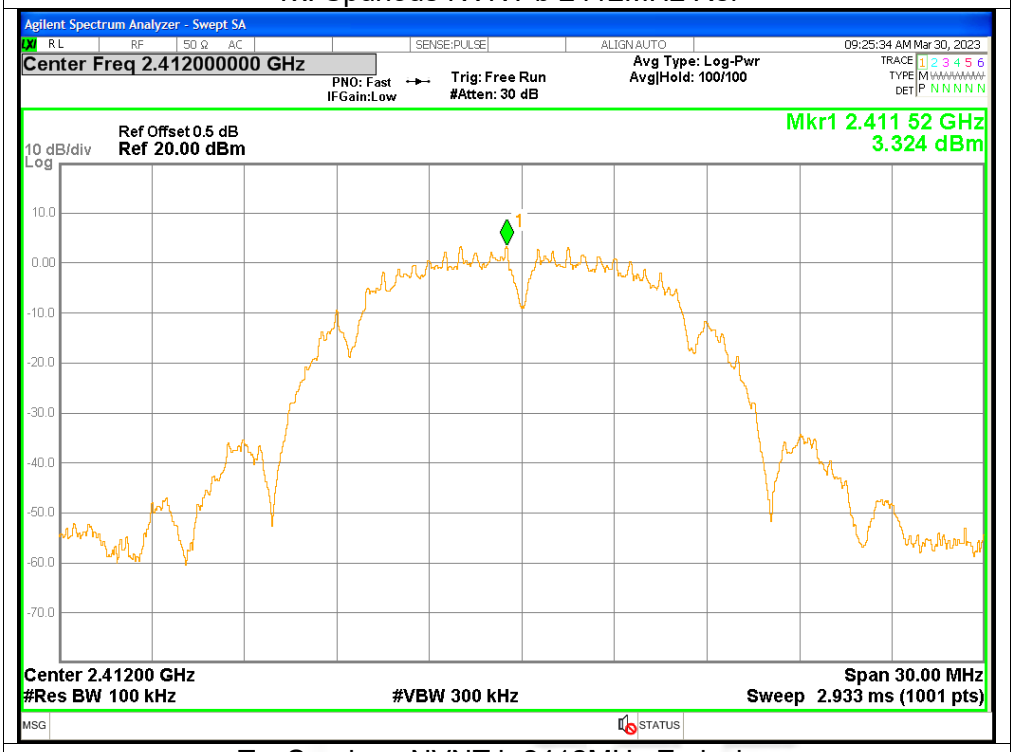


7. Conducted RF Spurious Emission

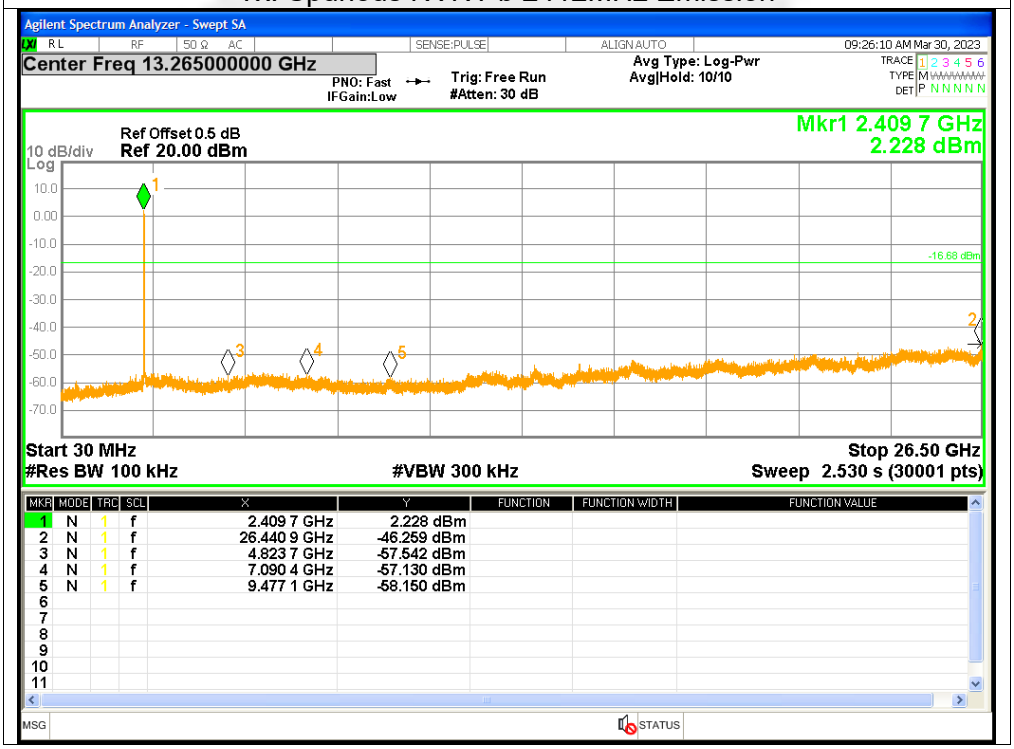
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-49.57	<=-20	Pass
NVNT	b	2437	-51.82	<=-20	Pass
NVNT	b	2462	-50.51	<=-20	Pass
NVNT	g	2412	-46.9	<=-20	Pass
NVNT	g	2437	-47.88	<=-20	Pass
NVNT	g	2462	-47.5	<=-20	Pass
NVNT	n20	2412	-47.77	<=-20	Pass
NVNT	n20	2437	-48.28	<=-20	Pass
NVNT	n20	2462	-46.19	<=-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ref

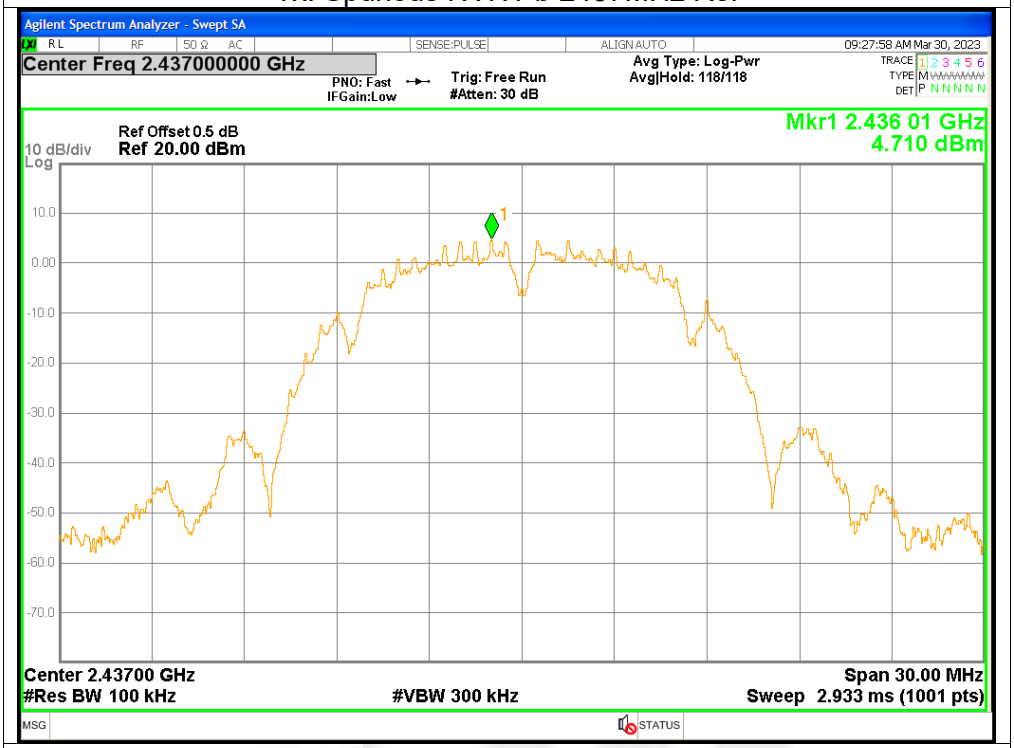


Tx. Spurious NVNT b 2412MHz Emission

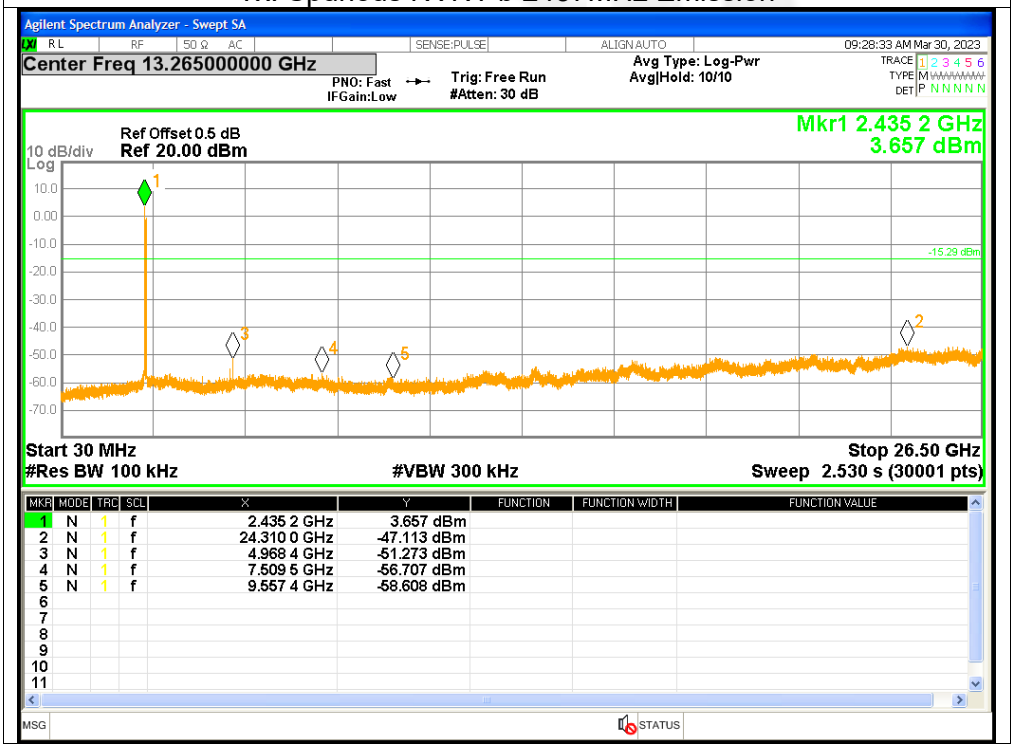


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.409 7 GHz	2.228 dBm			
2	N	1	f	26.440 9 GHz	-46.259 dBm			
3	N	1	f	4.823 7 GHz	-57.542 dBm			
4	N	1	f	7.090 4 GHz	-57.130 dBm			
5	N	1	f	9.477 1 GHz	-58.150 dBm			
6								
7								
8								
9								
10								
11								

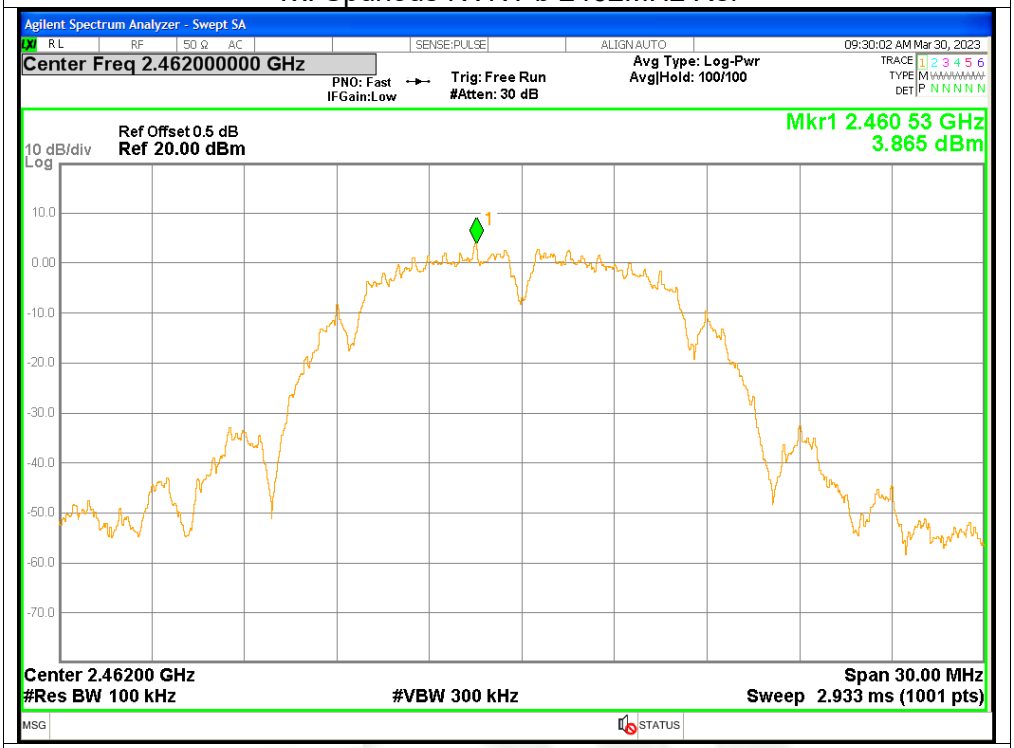
Tx. Spurious NVNT b 2437MHz Ref



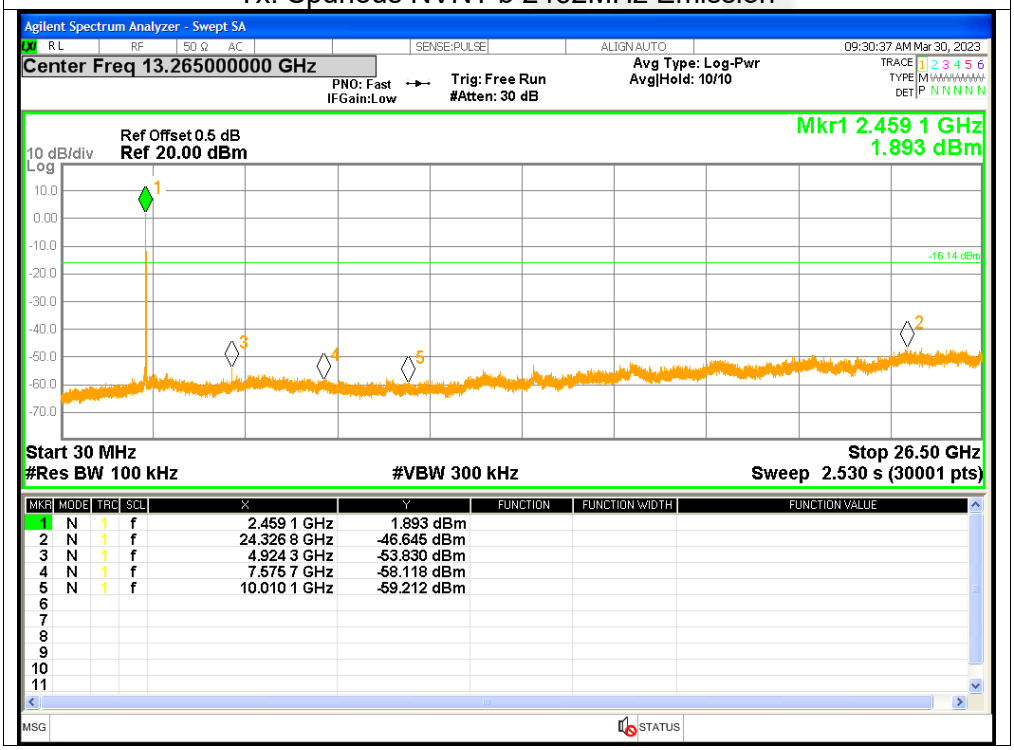
Tx. Spurious NVNT b 2437MHz Emission



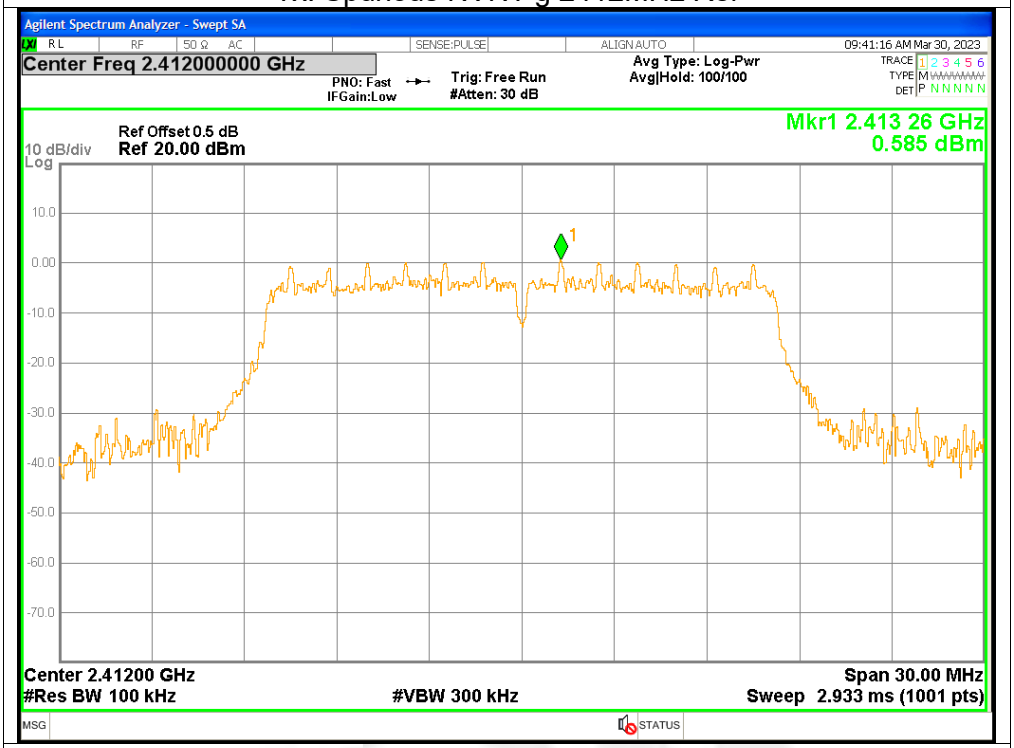
Tx. Spurious NVNT b 2462MHz Ref



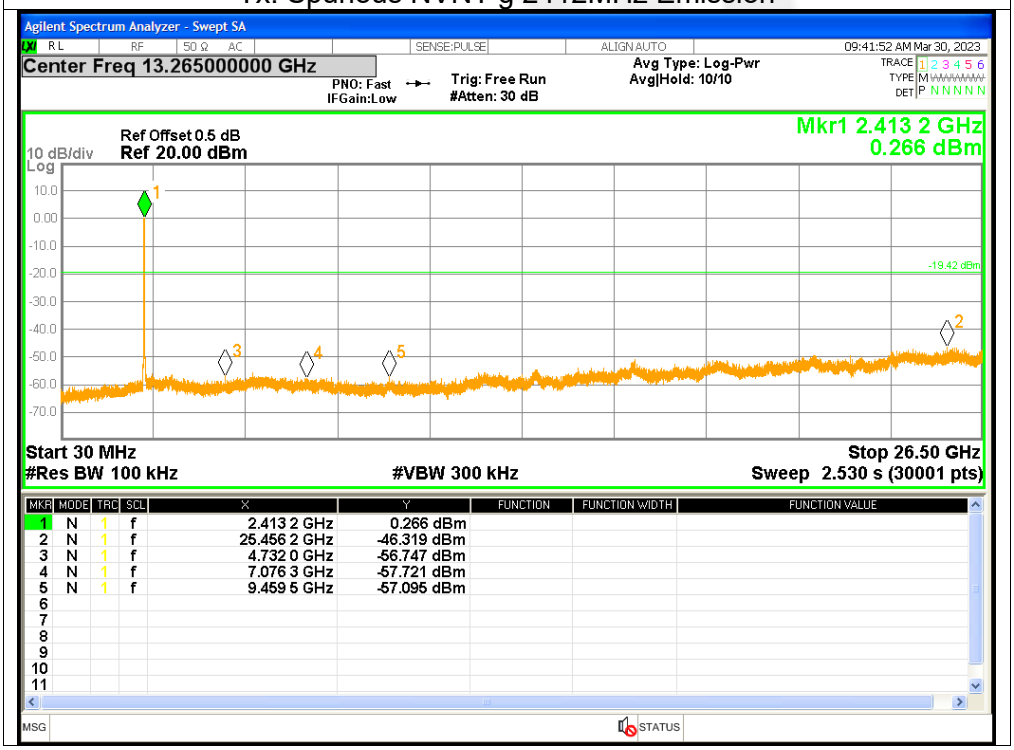
Tx. Spurious NVNT b 2462MHz Emission



Tx. Spurious NVNT g 2412MHz Ref

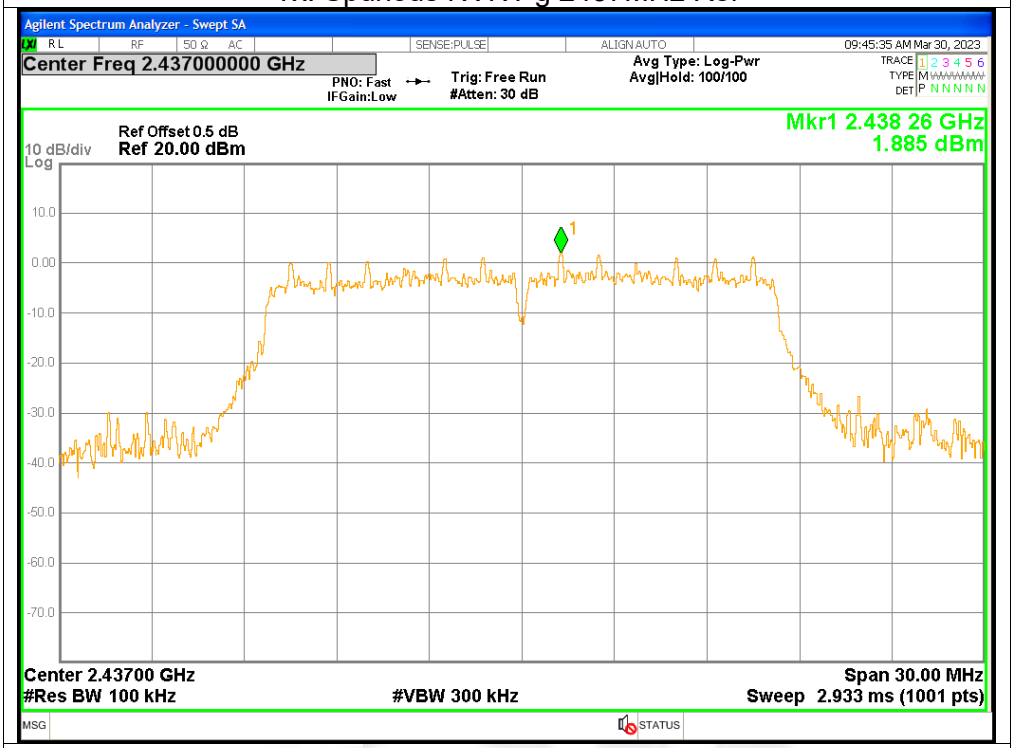


Tx. Spurious NVNT g 2412MHz Emission

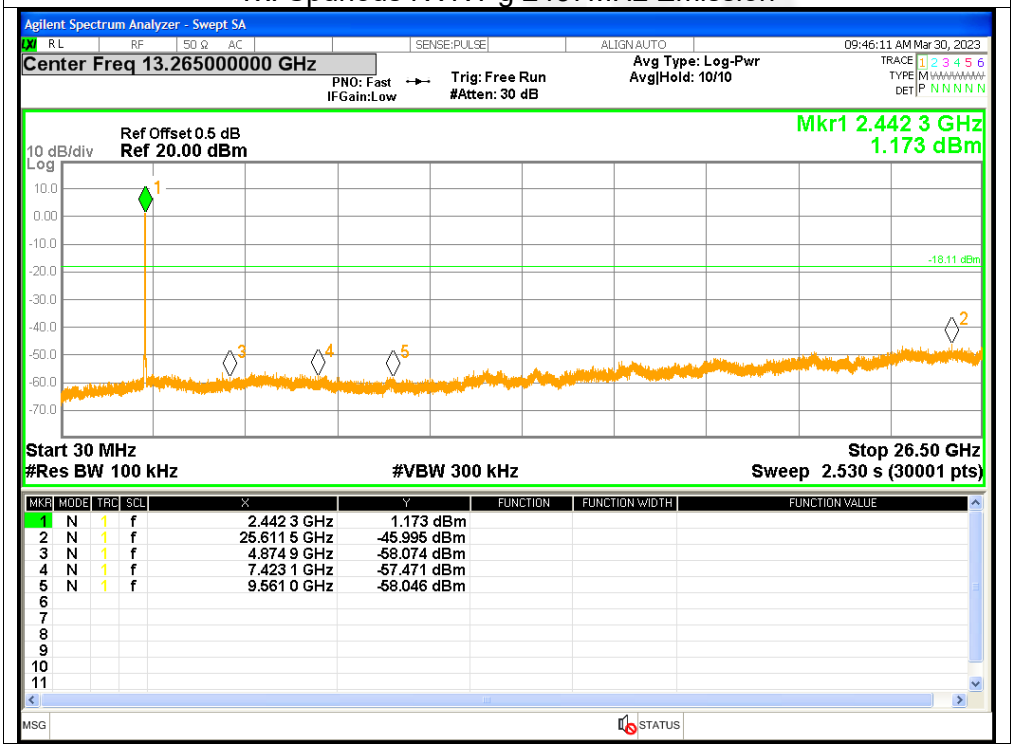


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.413 2 GHz	0.266 dBm			
2	N	1	f	25.456 2 GHz	-46.319 dBm			
3	N	1	f	4.732 0 GHz	-56.747 dBm			
4	N	1	f	7.076 3 GHz	-57.721 dBm			
5	N	1	f	9.459 5 GHz	-57.095 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT g 2437MHz Ref

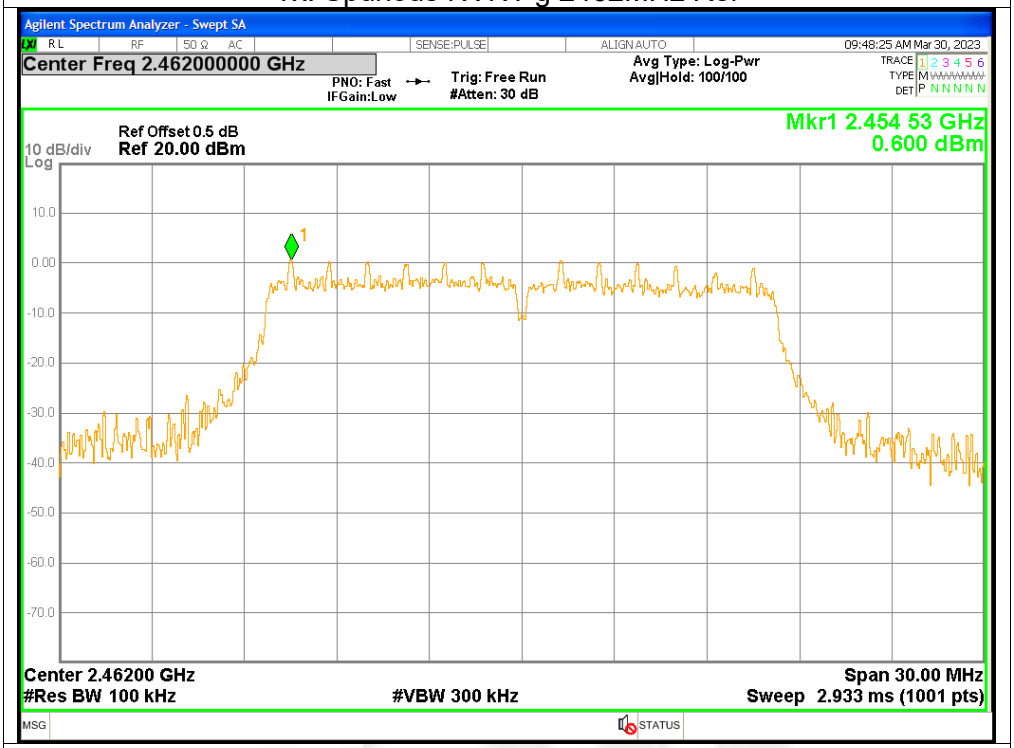


Tx. Spurious NVNT g 2437MHz Emission

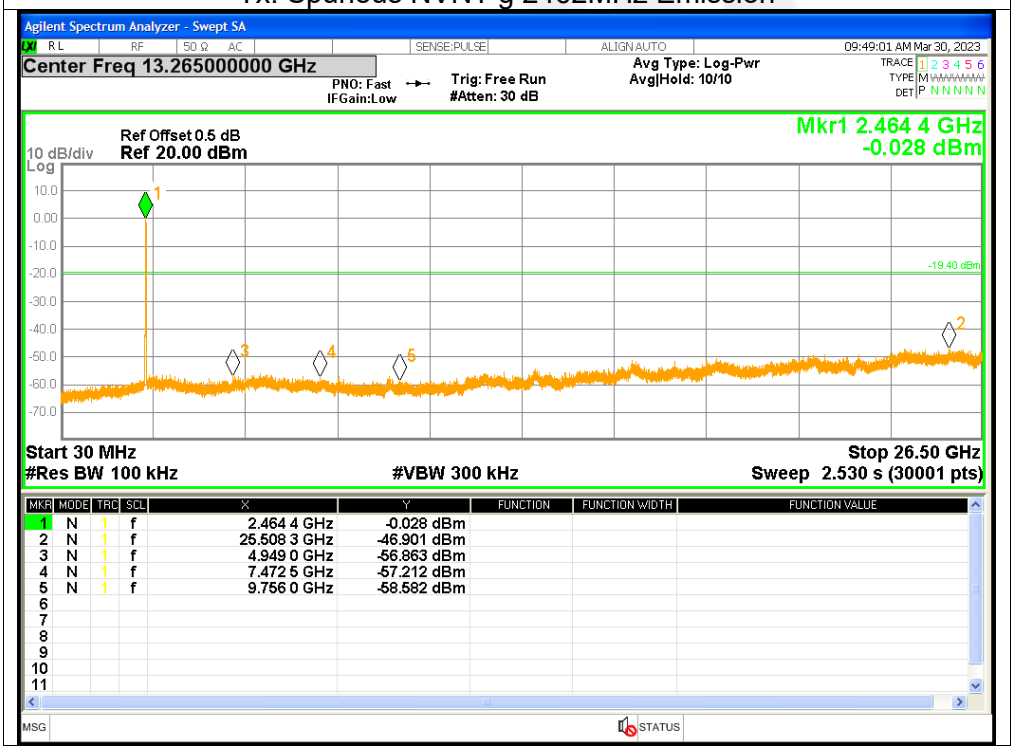


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.442 3 GHz	1.173 dBm			
2	N	1	f	25.611 5 GHz	-45.995 dBm			
3	N	1	f	4.874 9 GHz	-58.074 dBm			
4	N	1	f	7.423 1 GHz	-57.471 dBm			
5	N	1	f	9.561 0 GHz	-58.046 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT g 2462MHz Ref

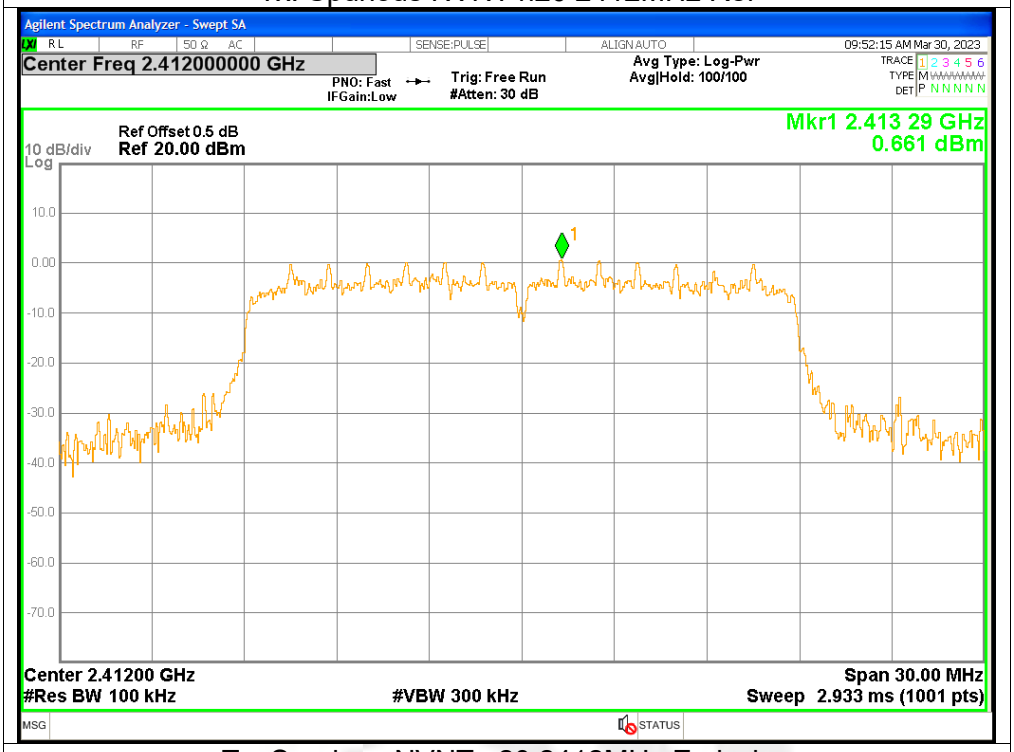


Tx. Spurious NVNT g 2462MHz Emission

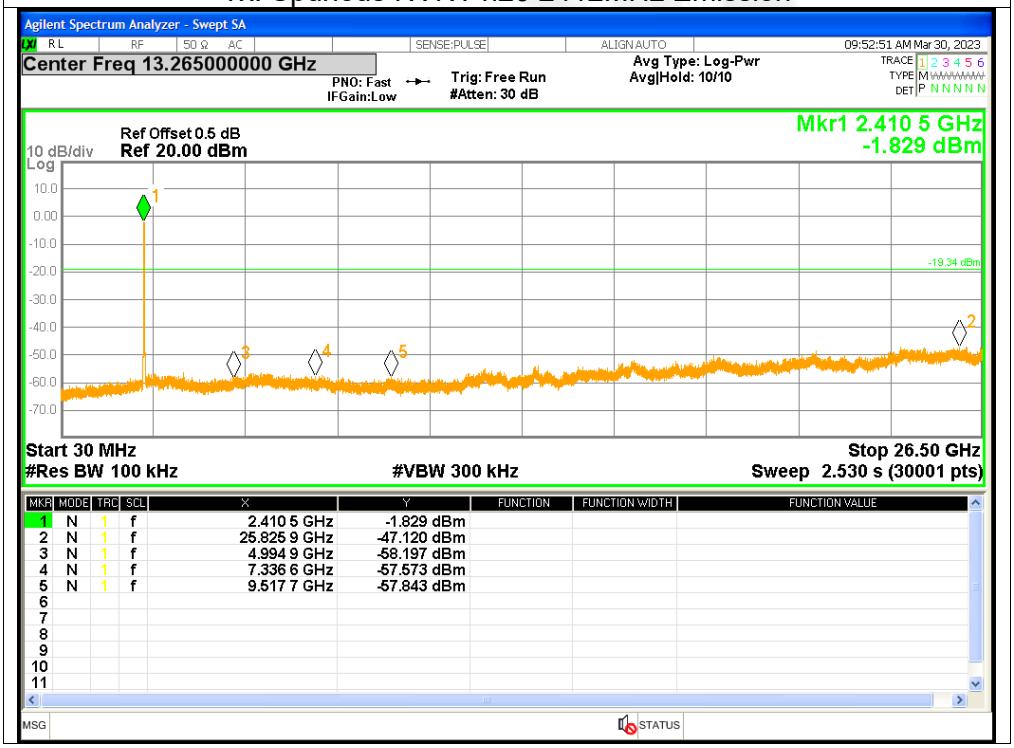


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.464 4 GHz	-0.028 dBm			
2	N	1	f	25.508 3 GHz	-46.901 dBm			
3	N	1	f	4.949 0 GHz	-56.863 dBm			
4	N	1	f	7.472 5 GHz	-57.212 dBm			
5	N	1	f	9.756 0 GHz	-58.582 dBm			
6								
7								
8								
9								
10								
11								

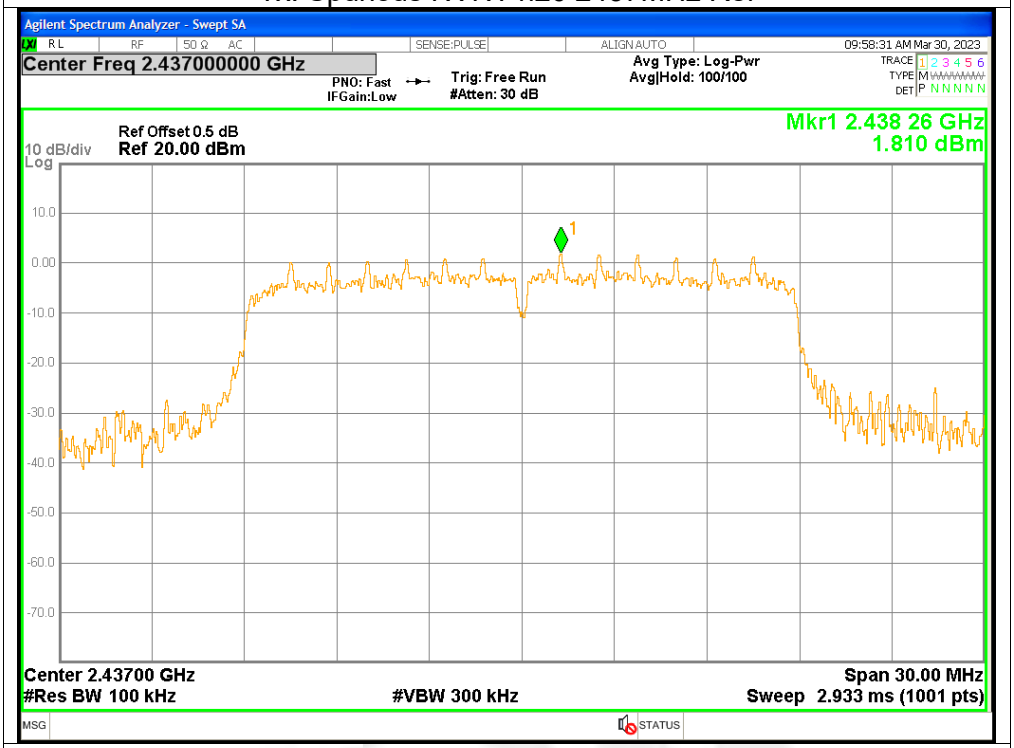
Tx. Spurious NVNT n20 2412MHz Ref



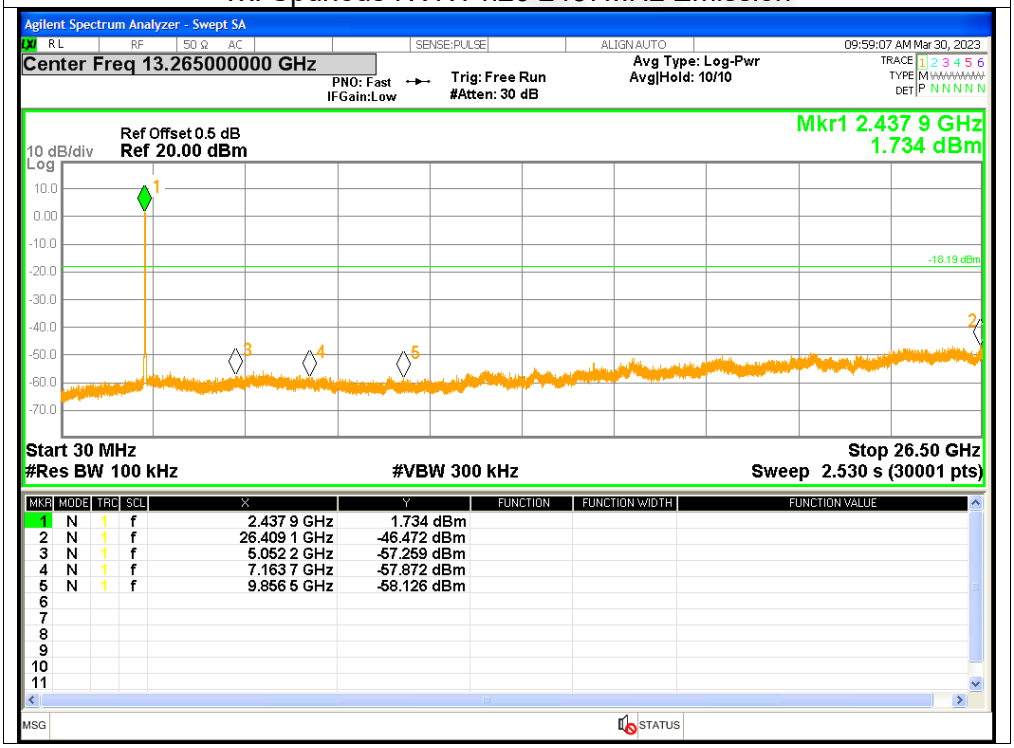
Tx. Spurious NVNT n20 2412MHz Emission



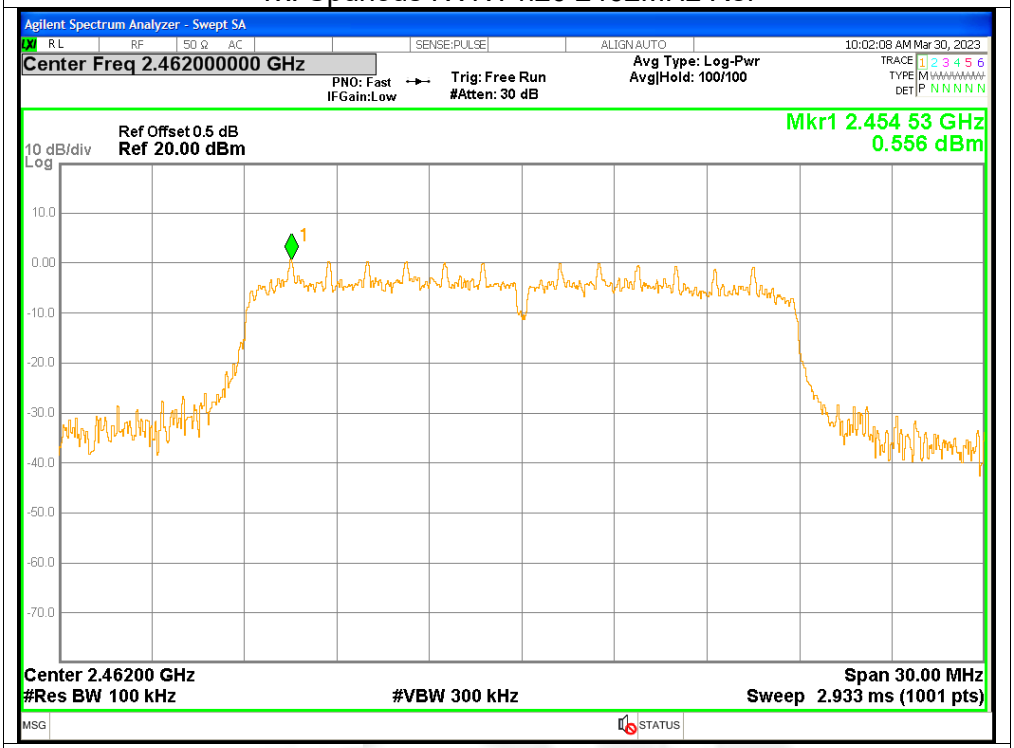
Tx. Spurious NVNT n20 2437MHz Ref



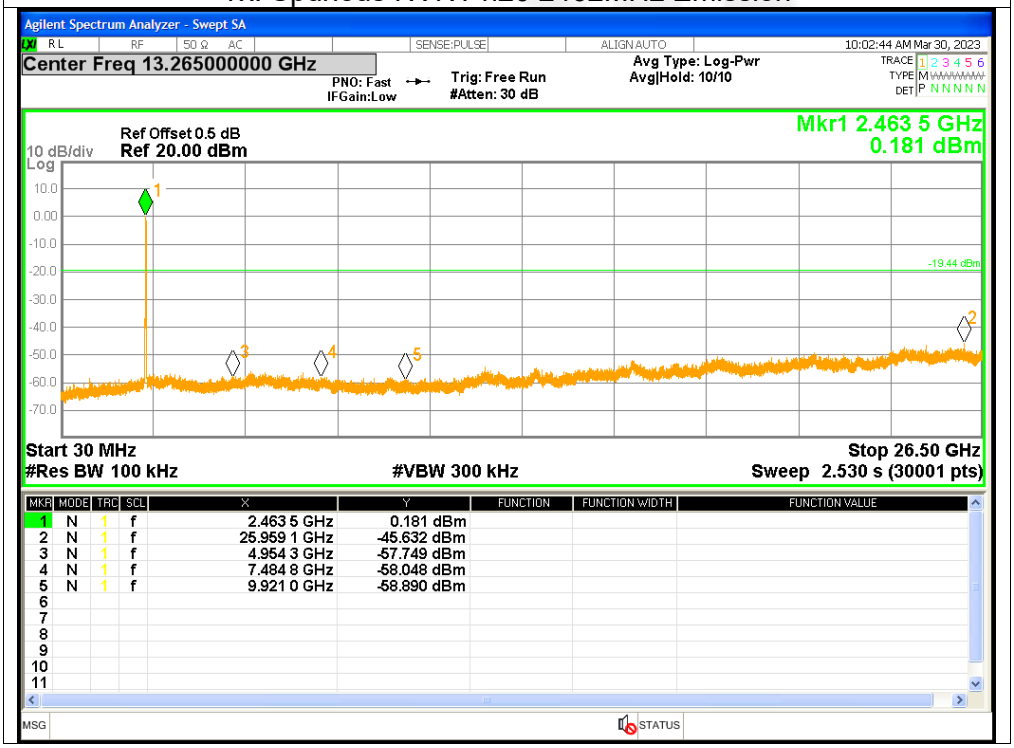
Tx. Spurious NVNT n20 2437MHz Emission



Tx. Spurious NVNT n20 2462MHz Ref



Tx. Spurious NVNT n20 2462MHz Emission



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※※※※※