Radio Test Report

Report No.:STS2512459W03

Issued for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, China

Product Name:	Smart Phone
Brand Name:	OUKITEL
Model Name:	C8
Series Model(s):	C8 S, C8 Pro, C8 Ultra, C8 E, C8 Plus, C8 MAX
FCC ID:	2ANMU-C8
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.....: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

Address .....: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, China

Manufacturer's Name.....: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

Address .....: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, China

Product Description

Product Name.....: Smart Phone

Brand Name.....: OUKITEL

Model Name .....: C8

Series Model(s) .....: C8 S, C8 Pro, C8 Ultra, C8 E, C8 Plus, C8 MAX

Standards .....: FCC Part 15.247

Test Procedure.....: ANSI C63.10-2020

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.....: 10 Oct. 2025

Date (s) of performance of tests .....: 10 Oct. 2025 to 27 Feb. 2026

Date of Issue .....: 27 Feb. 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	27 Feb. 2026	STS2512459W03	ALL	Initial Issue

101, Building B, Zhuoke Science Park, No. 190 Chongqing Road, Zhancheng Shequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 3688 6288 Fax: +86-755 3688 6277 Http://www.stsapp.com E-mail:sts@stsapp.com

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.

Remark:
ACCORDING TO THE FOLLOWING CHANGES MENTIONED IN THE ORIGINAL TEST REPORT (STS2512459W03), THERE WERE NO INTERNAL CHANGES TO THE PRODUCT. ONLY THE APPEARANCE OF THE PRODUCT DIFFERED. THE RF TEST DATA REFERS TO FCC ID: 2ANMU-C7.

* INDICATES THAT THE PROJECT HAS UNDERGONE UPDATED TESTING.

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>Smart Phone</td></tr>
<tr><td>Brand Name</td><td>OUKITEL</td></tr>
<tr><td>Model Name</td><td>C8</td></tr>
<tr><td>Series Model(s)</td><td>C8 S, C8 Pro, C8 Ultra, C8 E, C8 Plus, C8 MAX</td></tr>
<tr><td>Model Difference</td><td>All models are identical except for the model name, the test model is C8.</td></tr>
<tr><td>Product Description</td><td>The EUT is a Smart Phone
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g/n 20: 2412~2462 MHz</td></tr>
<tr><td rowspan="2">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>802.11b/g Support SISO
802.11n/ax Support MIMO</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>Internal antenna</td></tr>
<tr><td>Antenna Gain (dBi):</td><td>2.53</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>DC 5V from adapter/DC 3.87V from battery</td></tr>
<tr><td>Adapter</td><td>Model: TPA-418G050200UU01
Input: 100-240V~50/60Hz 0.3A
Output: DC 5.0V 2.0A 10.0W</td></tr>
<tr><td>Battery</td><td>DC 3.87V</td></tr>
<tr><td>Hardware version number</td><td>SC6306LH_MB_V2.0.1</td></tr>
<tr><td>Software version number</td><td>OUKITEL_C7_EEA_V02_20250911</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.

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 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

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	Mode10: Keeping TX + WLAN Link

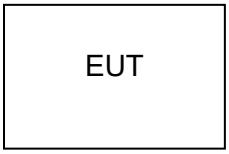
2.3 TEST SOFTWARE AND POWER LEVEL

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

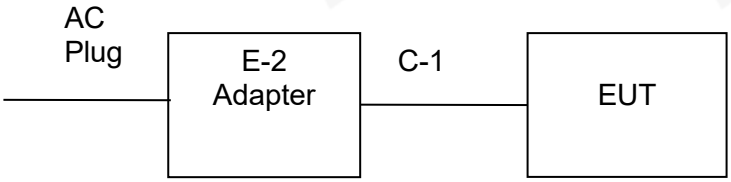
RF Function	Type	Mode or Modulation type	Power Class	Software for Testing
WIFI(2.4G)	WIFI(2.4G)	802.11b	Default	Engineering mode
		802.11g	Default	
		802.11n(HT20)	Default	

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



AC Conducted Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Smart Phone	OUKITEL	C8	N/A	EUT
E-2	Adapter	/	TPA-418G050200UU01	N/A	Auxiliary

Line

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0M	DC cable unshielded

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	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
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
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
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	2025.02.24	2026.02.23
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	2025.02.22	2026.02.21
Power detector group	Keysight	NW2021031	N/A	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	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
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.

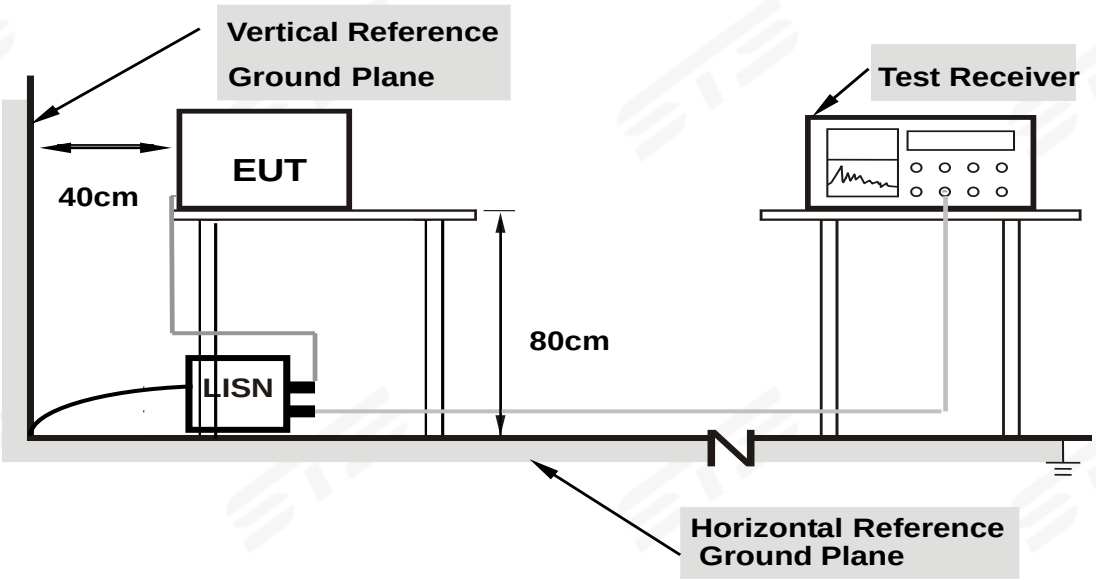
The following table is the setting of the receiver

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.

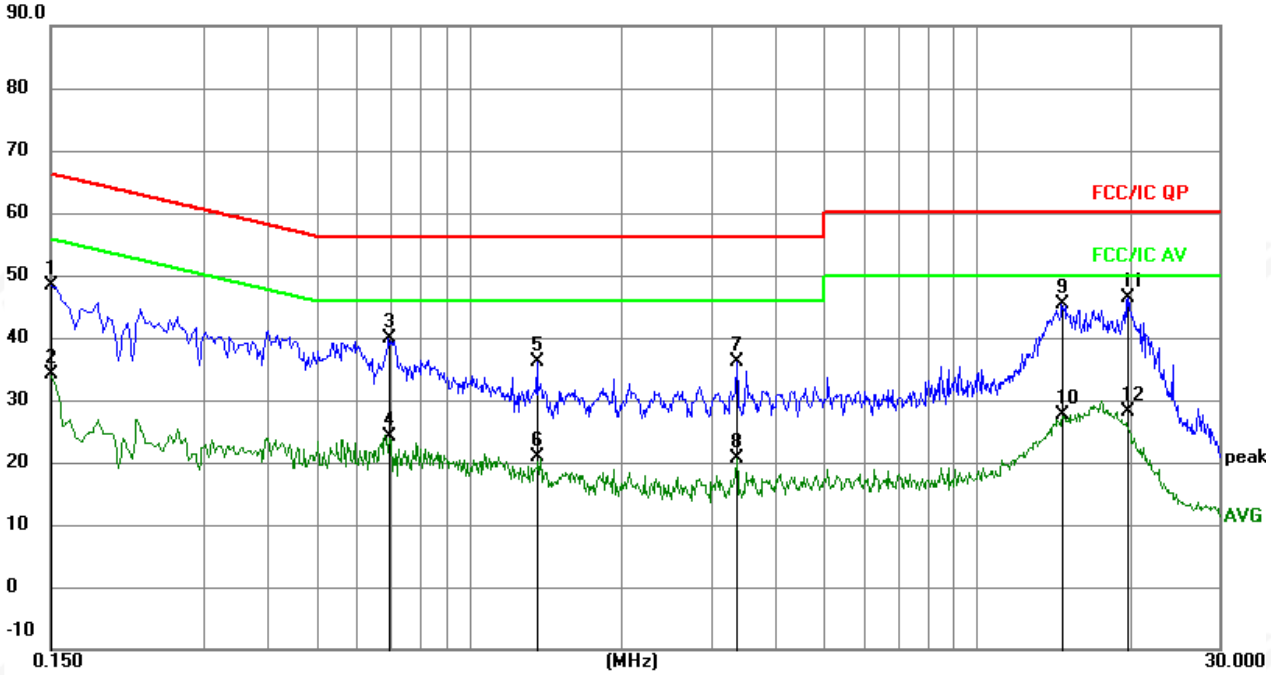
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

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

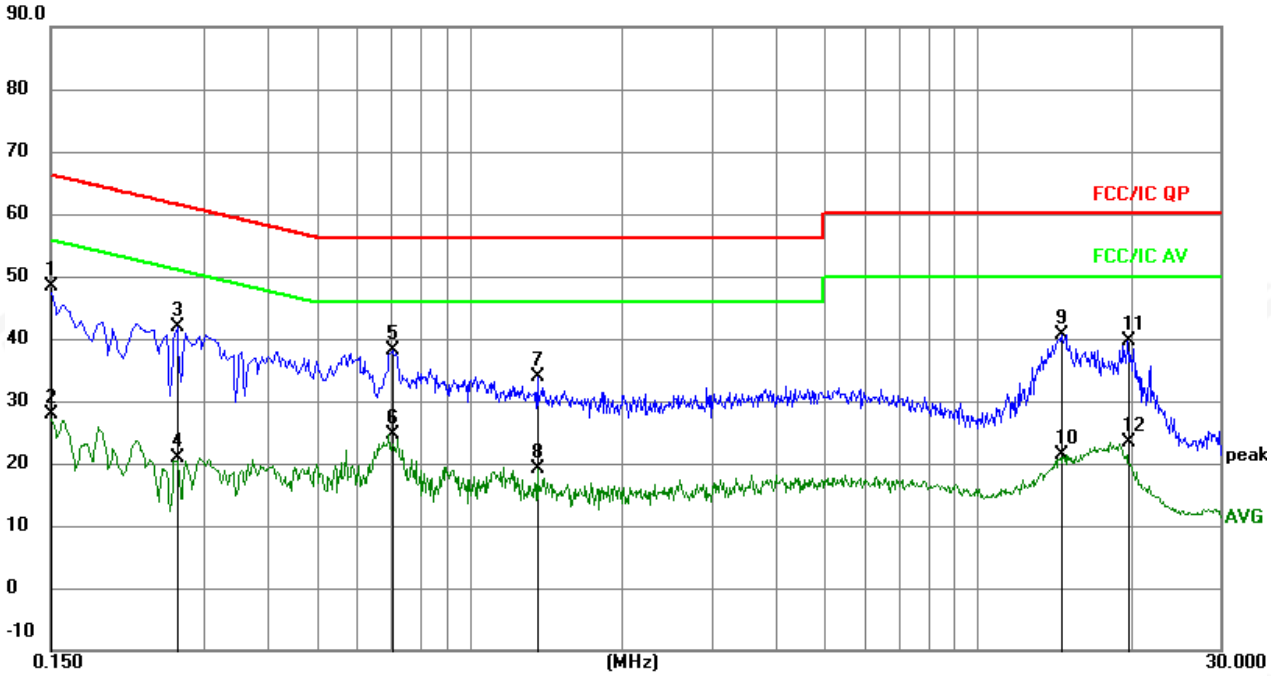
Temperature:	25.1 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 10		



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)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1500	28.36	20.04	48.40	66.00	-17.60	QP
2		0.1500	14.18	20.04	34.22	56.00	-21.78	AVG
3		0.6936	19.60	20.25	39.85	56.00	-16.15	QP
4		0.6936	4.00	20.25	24.25	46.00	-21.75	AVG
5		1.3593	15.80	20.24	36.04	56.00	-19.96	QP
6		1.3593	0.70	20.24	20.94	46.00	-25.06	AVG
7		3.3635	15.73	20.47	36.20	56.00	-19.80	QP
8		3.3635	0.21	20.47	20.68	46.00	-25.32	AVG
9		14.6718	23.09	22.41	45.50	60.00	-14.50	QP
10		14.6718	5.16	22.41	27.57	50.00	-22.43	AVG
11	*	19.8445	22.88	23.56	46.44	60.00	-13.56	QP
12		19.8445	4.59	23.56	28.15	50.00	-21.85	AVG

Temperature:	25.1 ℃	Relative Humidity:	54 %
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 10		



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)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1500	28.23	20.04	48.27	66.00	-17.73	QP
2		0.1500	7.81	20.04	27.85	56.00	-28.15	AVG
3		0.2670	21.73	20.04	41.77	61.21	-19.44	QP
4		0.2670	0.72	20.04	20.76	51.21	-30.45	AVG
5		0.7079	17.84	20.26	38.10	56.00	-17.90	QP
6		0.7079	4.34	20.26	24.60	46.00	-21.40	AVG
7		1.3649	13.71	20.24	33.95	56.00	-22.05	QP
8		1.3649	-1.10	20.24	19.14	46.00	-26.86	AVG
9		14.6175	18.32	22.39	40.71	60.00	-19.29	QP
10		14.6175	-1.06	22.39	21.33	50.00	-28.67	AVG
11		19.7610	16.02	23.54	39.56	60.00	-20.44	QP
12		19.7610	-0.21	23.54	23.33	50.00	-26.67	AVG

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 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

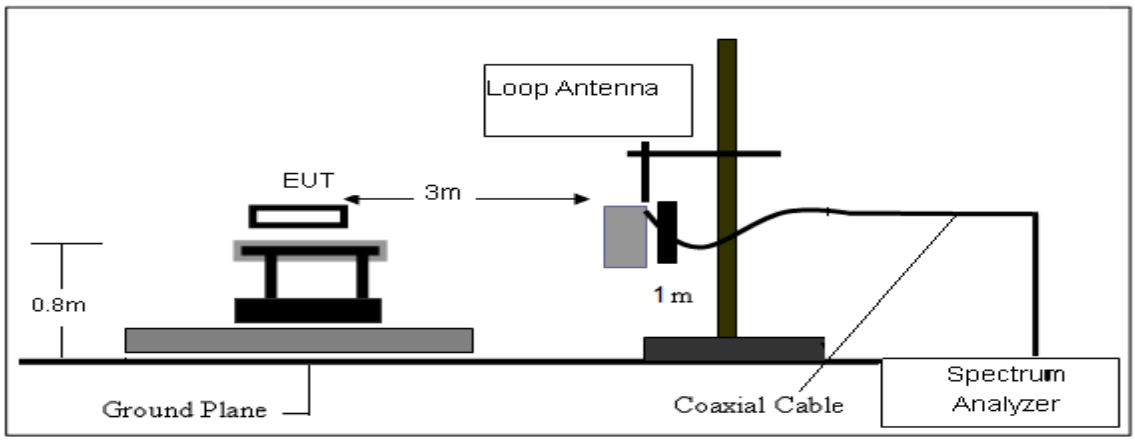
a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position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

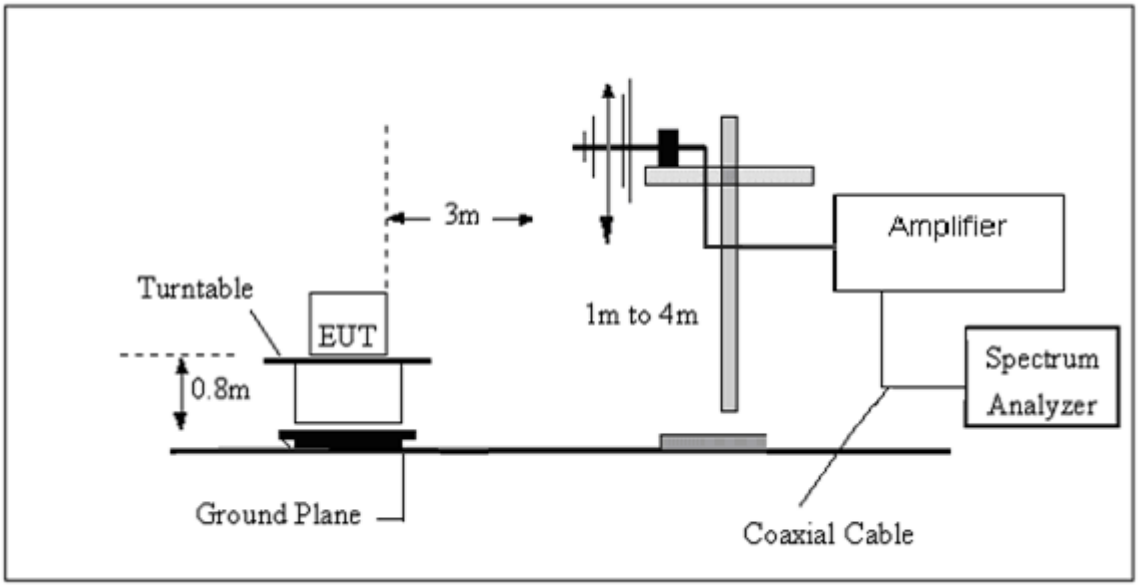
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TEST SETUP

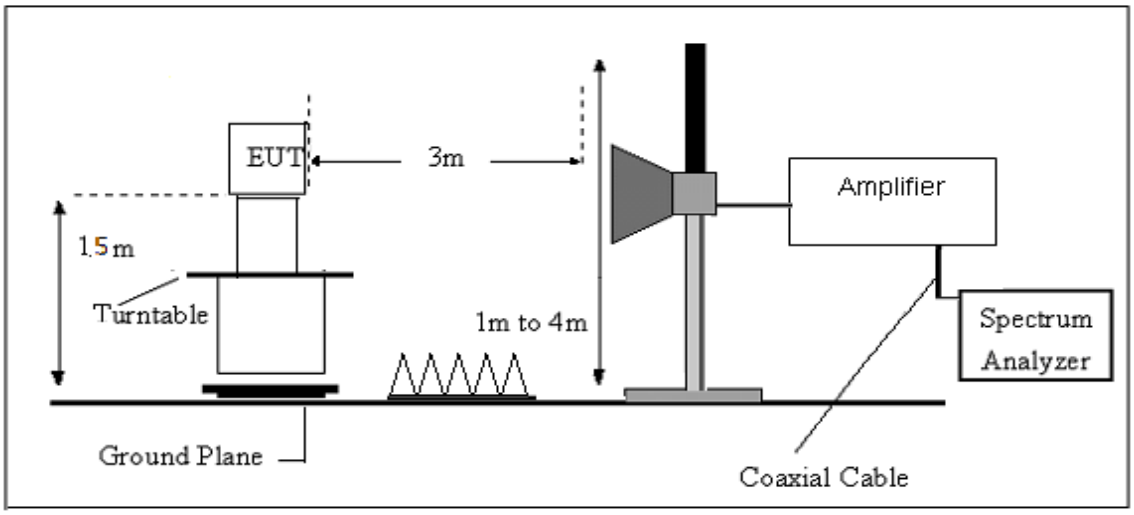
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

101, Building B, Zhuoke Science Park, No. 190 Chongqing Road, Zhancheng Shequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 3688 6288 Fax: +86-755 3688 6277 Http://www.stsapp.com E-mail:sts@stsapp.com

3.2.6 TEST RESULT

9KHz-30MHz

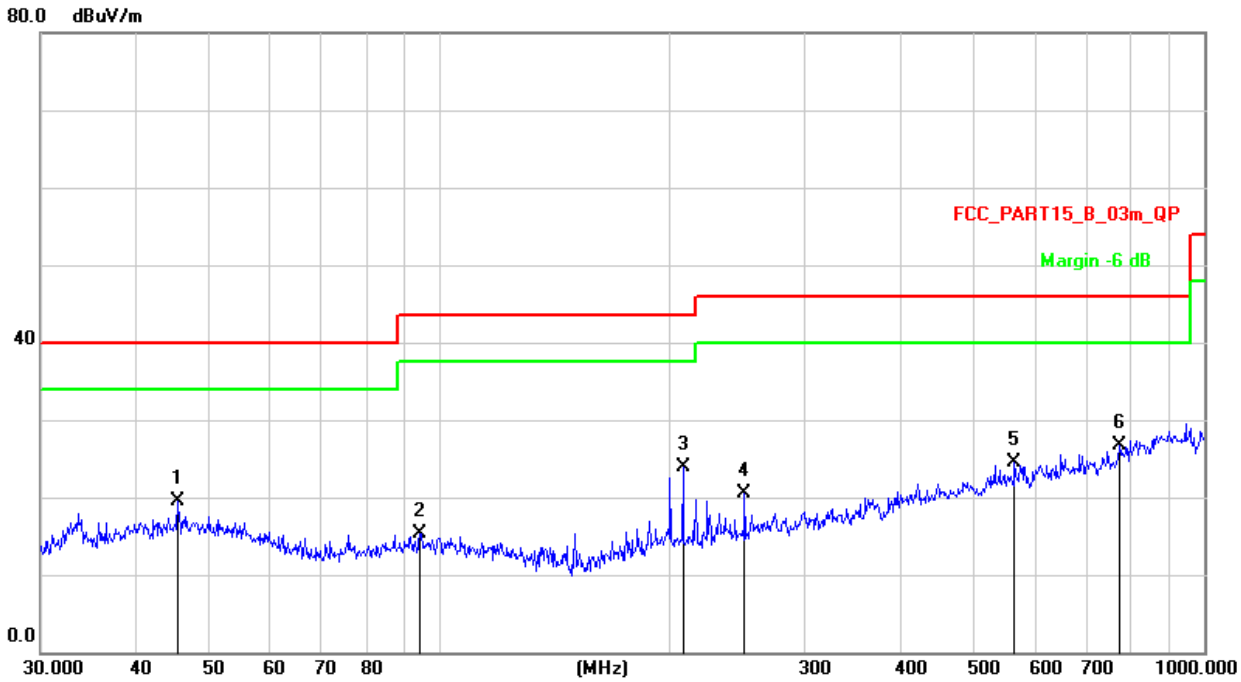
Temperature:	23.6 ℃	Relative Humidity:	56 %
Test Voltage:	AC 120V/60Hz	Polarization:	--
Test Mode:	TX Mode		

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)

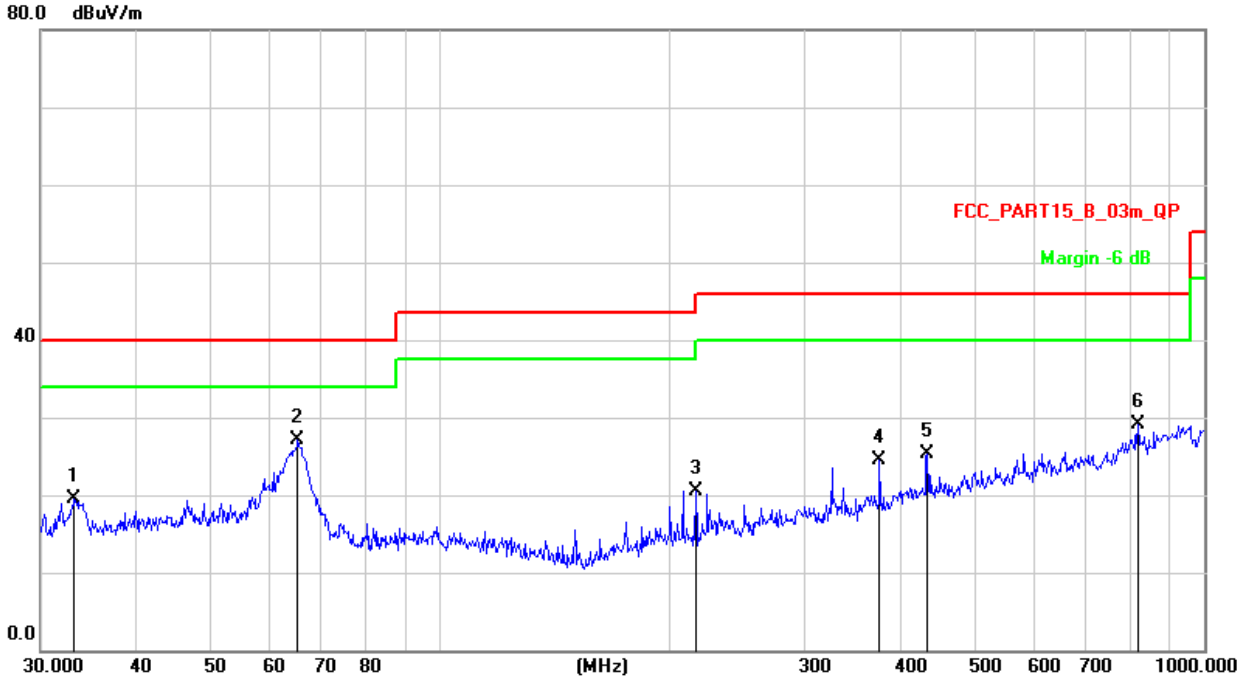
Temperature:	23.6 ℃	Relative Humidity:	56 %
Test Voltage:	AC 120V/60Hz	Phase:	Horizontal
Test Mode:	Mode 9		



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.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.3755	26.77	-7.19	19.58	40.00	-20.42	QP
2		94.0979	24.08	-8.81	15.27	43.50	-28.23	QP
3		207.8501	31.84	-7.98	23.86	43.50	-19.64	QP
4		250.3012	27.48	-6.94	20.54	46.00	-25.46	QP
5		564.6389	24.45	0.13	24.58	46.00	-21.42	QP
6	*	774.1584	23.70	3.05	26.75	46.00	-19.25	QP

Temperature:	23.6 ℃	Relative Humidity:	56 %
Test Voltage:	AC 120V/60Hz	Phase:	Vertical
Test Mode:	Mode 9		



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.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		33.2112	28.08	-8.60	19.48	40.00	-20.52	QP
2	*	65.1145	36.49	-9.38	27.11	40.00	-12.89	QP
3		216.0240	28.37	-7.78	20.59	46.00	-25.41	QP
4		375.9385	28.24	-3.78	24.46	46.00	-21.54	QP
5		434.0651	27.74	-2.48	25.26	46.00	-20.74	QP
6		818.8341	25.13	3.89	29.02	46.00	-16.98	QP

(1000MHz-25GHz) Spurious emission Requirements

Above 1000 MHz										
Frequency (MHz)	Meter Reading (dBμV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
Low Channel (802.11b/2412 MHz)										
3264.74	62.13	44.70	6.70	28.20	-9.80	52.33	74.00	-21.67	PK	Vertical
3264.74	50.32	44.70	6.70	28.20	-9.80	40.52	54.00	-13.48	AV	Vertical
3264.83	61.35	44.70	6.70	28.20	-9.80	51.55	74.00	-22.45	PK	Horizontal
3264.83	50.22	44.70	6.70	28.20	-9.80	40.42	54.00	-13.58	AV	Horizontal
4824.48	59.24	44.20	9.04	31.60	-3.56	55.68	74.00	-18.32	PK	Vertical
4824.48	49.44	44.20	9.04	31.60	-3.56	45.88	54.00	-8.12	AV	Vertical
4824.33	59.02	44.20	9.04	31.60	-3.56	55.46	74.00	-18.54	PK	Horizontal
4824.33	50.26	44.20	9.04	31.60	-3.56	46.70	54.00	-7.30	AV	Horizontal
5359.81	48.47	44.20	9.86	32.00	-2.34	46.12	74.00	-27.88	PK	Vertical
5359.81	39.59	44.20	9.86	32.00	-2.34	37.25	54.00	-16.75	AV	Vertical
5359.59	47.95	44.20	9.86	32.00	-2.34	45.61	74.00	-28.39	PK	Horizontal
5359.59	38.62	44.20	9.86	32.00	-2.34	36.28	54.00	-17.72	AV	Horizontal
7235.73	53.96	43.50	11.40	35.50	3.40	57.36	74.00	-16.64	PK	Vertical
7235.73	44.89	43.50	11.40	35.50	3.40	48.29	54.00	-5.71	AV	Vertical
7235.78	53.51	43.50	11.40	35.50	3.40	56.91	74.00	-17.09	PK	Horizontal
7235.78	44.79	43.50	11.40	35.50	3.40	48.19	54.00	-5.81	AV	Horizontal
Middle Channel (802.11b/2437 MHz)										
3264.83	62.04	44.70	6.70	28.20	-9.80	52.24	74.00	-21.76	PK	Vertical
3264.83	50.10	44.70	6.70	28.20	-9.80	40.30	54.00	-13.70	AV	Vertical
3264.75	62.14	44.70	6.70	28.20	-9.80	52.34	74.00	-21.66	PK	Horizontal
3264.75	50.72	44.70	6.70	28.20	-9.80	40.92	54.00	-13.08	AV	Horizontal
4874.56	58.47	44.20	9.04	31.60	-3.56	54.91	74.00	-19.09	PK	Vertical
4874.56	49.12	44.20	9.04	31.60	-3.56	45.56	54.00	-8.44	AV	Vertical
4874.53	58.49	44.20	9.04	31.60	-3.56	54.93	74.00	-19.07	PK	Horizontal
4874.53	49.45	44.20	9.04	31.60	-3.56	45.89	54.00	-8.11	AV	Horizontal
5359.74	48.53	44.20	9.86	32.00	-2.34	46.19	74.00	-27.81	PK	Vertical
5359.74	39.42	44.20	9.86	32.00	-2.34	37.08	54.00	-16.92	AV	Vertical
5359.65	47.69	44.20	9.86	32.00	-2.34	45.35	74.00	-28.65	PK	Horizontal
5359.65	38.67	44.20	9.86	32.00	-2.34	36.32	54.00	-17.68	AV	Horizontal
7310.91	54.56	43.50	11.40	35.50	3.40	57.96	74.00	-16.04	PK	Vertical
7310.91	43.99	43.50	11.40	35.50	3.40	47.39	54.00	-6.61	AV	Vertical
7310.78	54.90	43.50	11.40	35.50	3.40	58.30	74.00	-15.70	PK	Horizontal
7310.78	43.50	43.50	11.40	35.50	3.40	46.90	54.00	-7.10	AV	Horizontal
3264.67	61.96	44.70	6.70	28.20	-9.80	52.16	74.00	-21.84	PK	Vertical
3264.67	50.55	44.70	6.70	28.20	-9.80	40.75	54.00	-13.25	AV	Vertical
3264.65	62.25	44.70	6.70	28.20	-9.80	52.45	74.00	-21.55	PK	Horizontal
3264.65	50.05	44.70	6.70	28.20	-9.80	40.25	54.00	-13.75	AV	Horizontal
4924.38	58.91	44.20	9.04	31.60	-3.56	55.35	74.00	-18.65	PK	Vertical
4924.38	50.48	44.20	9.04	31.60	-3.56	46.92	54.00	-7.08	AV	Vertical
4924.52	59.54	44.20	9.04	31.60	-3.56	55.98	74.00	-18.02	PK	Horizontal
4924.52	50.31	44.20	9.04	31.60	-3.56	46.75	54.00	-7.25	AV	Horizontal

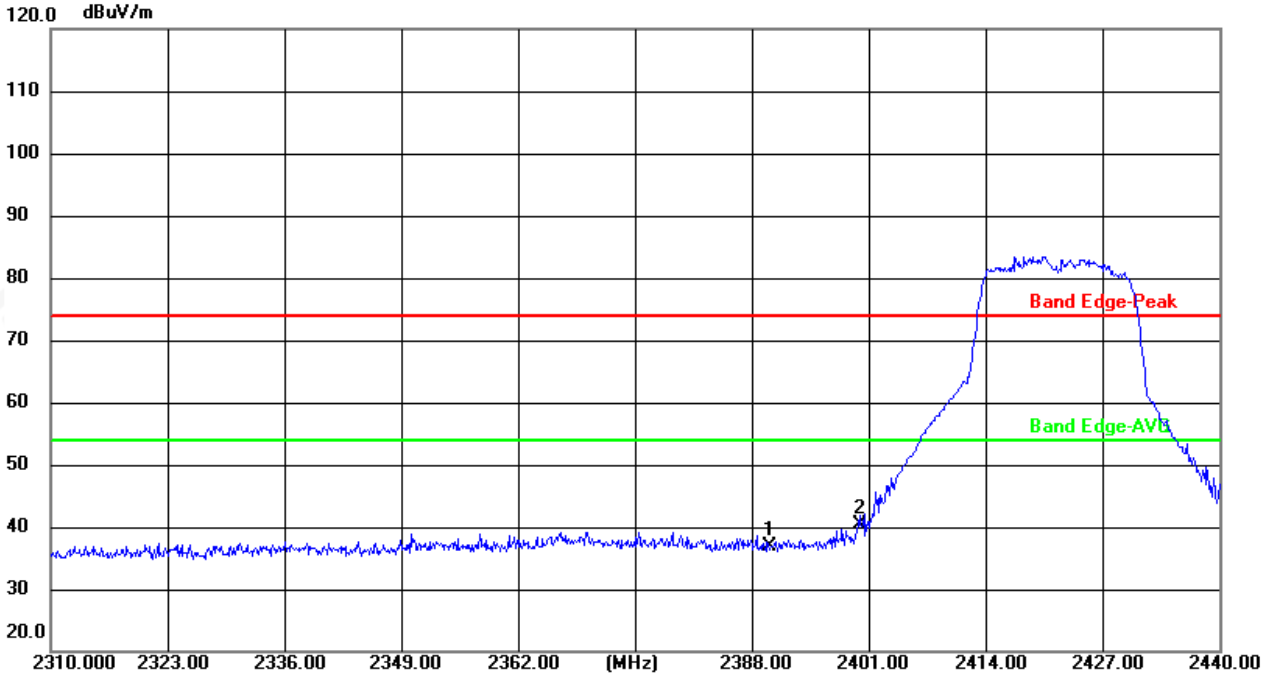
5359.88	48.16	44.20	9.86	32.00	-2.34	45.82	74.00	-28.18	PK	Vertical
5359.88	39.06	44.20	9.86	32.00	-2.34	36.72	54.00	-17.28	AV	Vertical
5359.75	48.09	44.20	9.86	32.00	-2.34	45.74	74.00	-28.26	PK	Horizontal
5359.75	38.84	44.20	9.86	32.00	-2.34	36.50	54.00	-17.50	AV	Horizontal
7385.92	54.24	43.50	11.40	35.50	3.40	57.64	74.00	-16.36	PK	Vertical
7385.92	44.45	43.50	11.40	35.50	3.40	47.85	54.00	-6.15	AV	Vertical
7385.81	54.64	43.50	11.40	35.50	3.40	58.04	74.00	-15.96	PK	Horizontal
7385.81	43.74	43.50	11.40	35.50	3.40	47.14	54.00	-6.86	AV	Horizontal

Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. All modes have been measurement, 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)

n20-Low

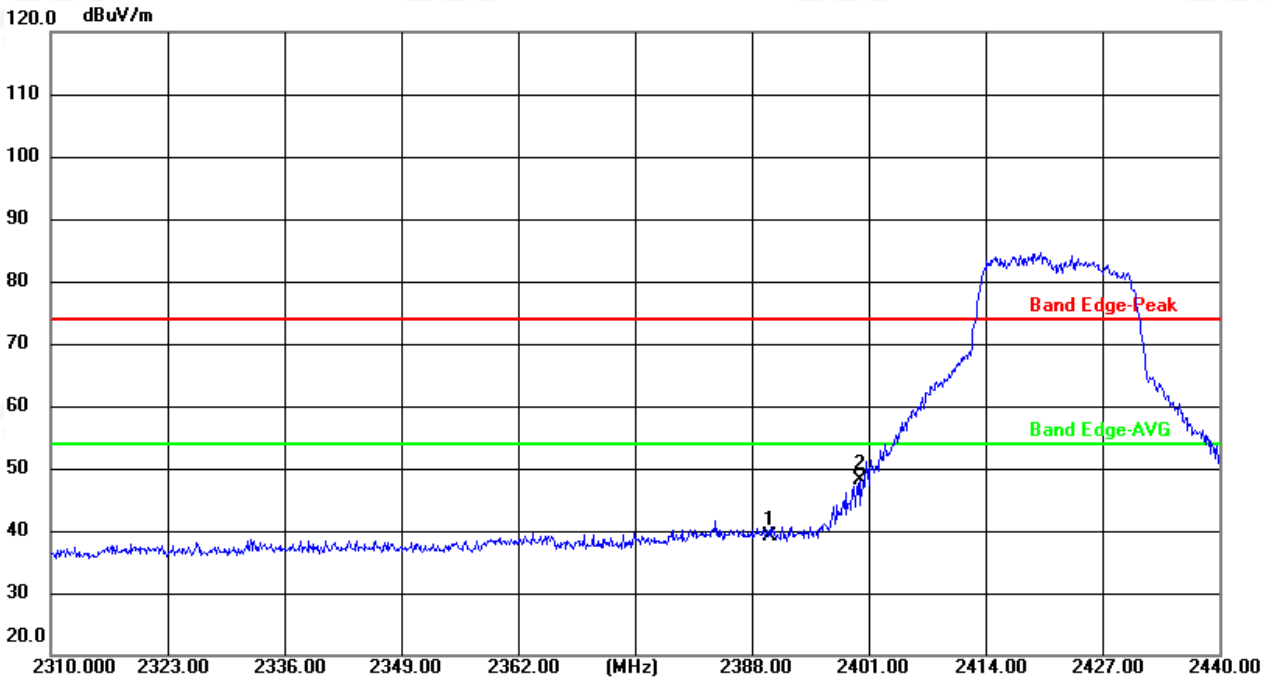
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	62.78	-25.82	36.96	74.00	-37.04	peak
2 *	2400.000	66.11	-25.80	40.31	74.00	-33.69	peak

n40-Low

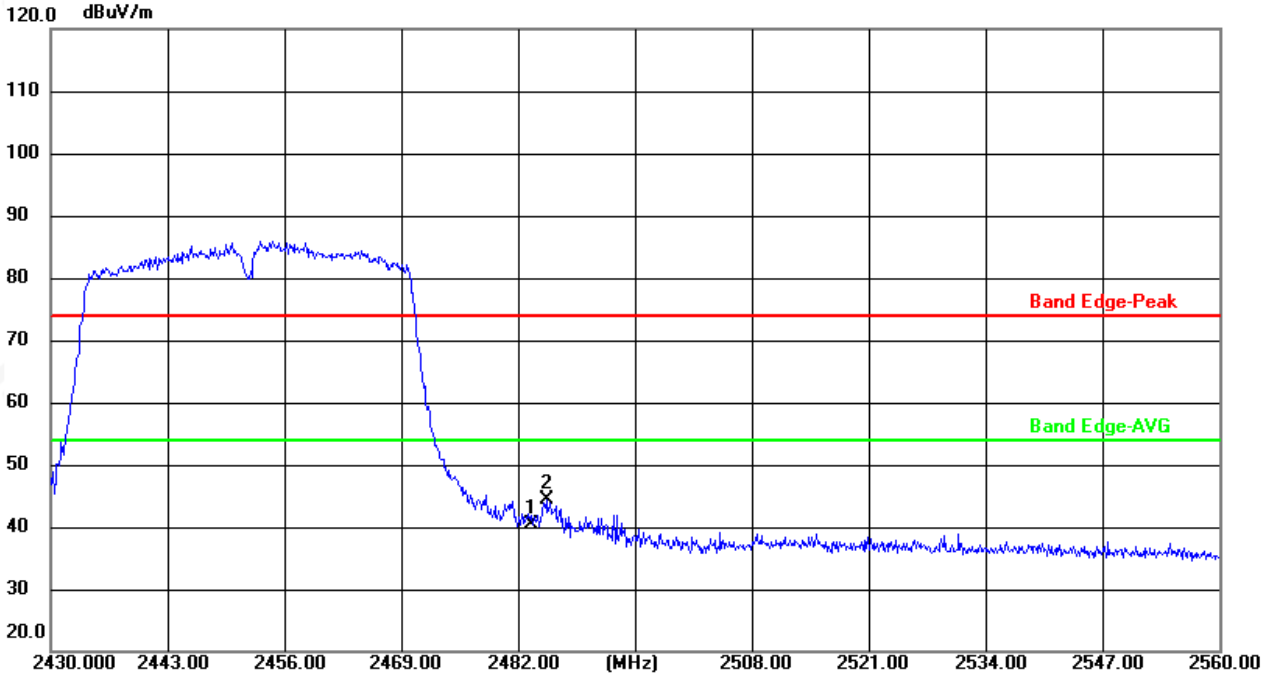
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	64.97	-25.82	39.15	74.00	-34.85	peak
2 *	2400.000	73.92	-25.80	48.12	74.00	-25.88	peak

n20-High

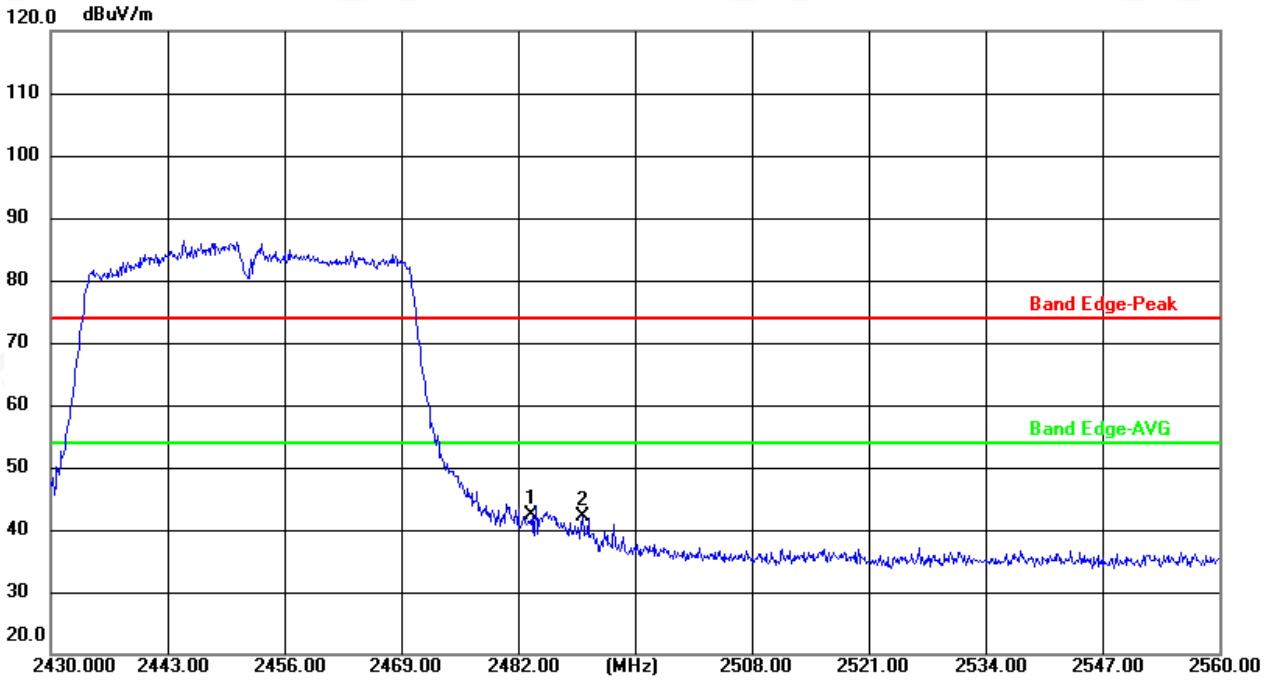
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	66.10	-25.63	40.47	74.00	-33.53	peak
2 *	2485.120	69.89	-25.63	44.26	74.00	-29.74	peak

n20-High

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2483.500	68.09	-25.63	42.46	74.00	-31.54	peak
2	2489.150	67.68	-25.62	42.06	74.00	-31.94	peak

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

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
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:

1. 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 = 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.

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

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 Internal Antenna. It comply with the standard requirement.

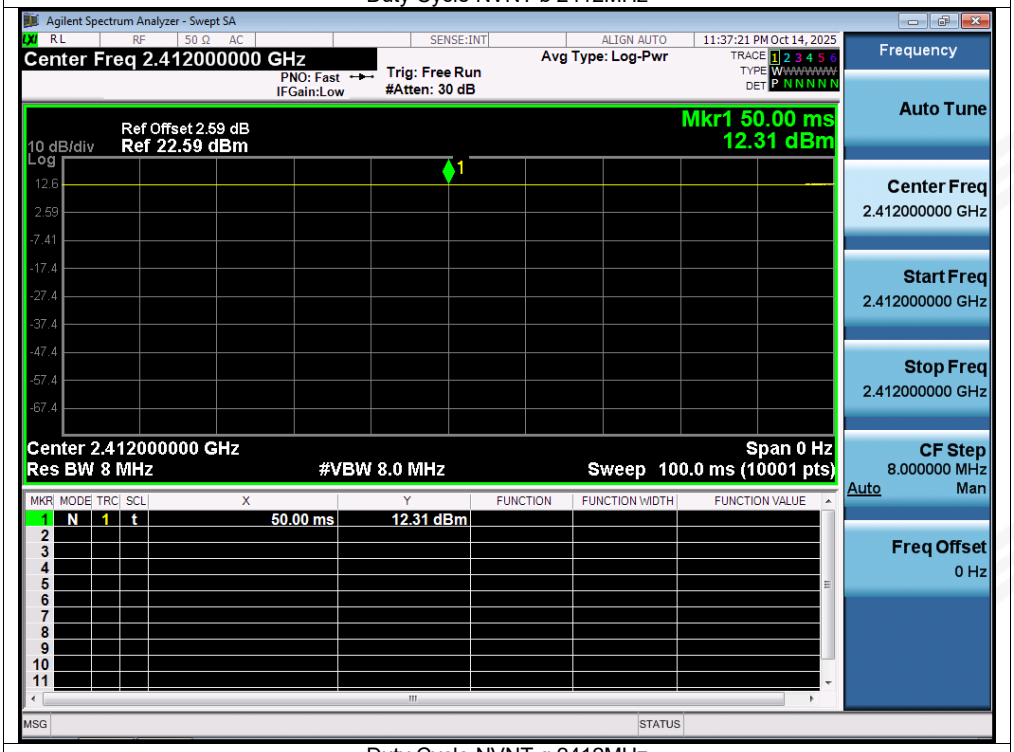
APPENDIX 1-TEST DATA

Duty Cycle

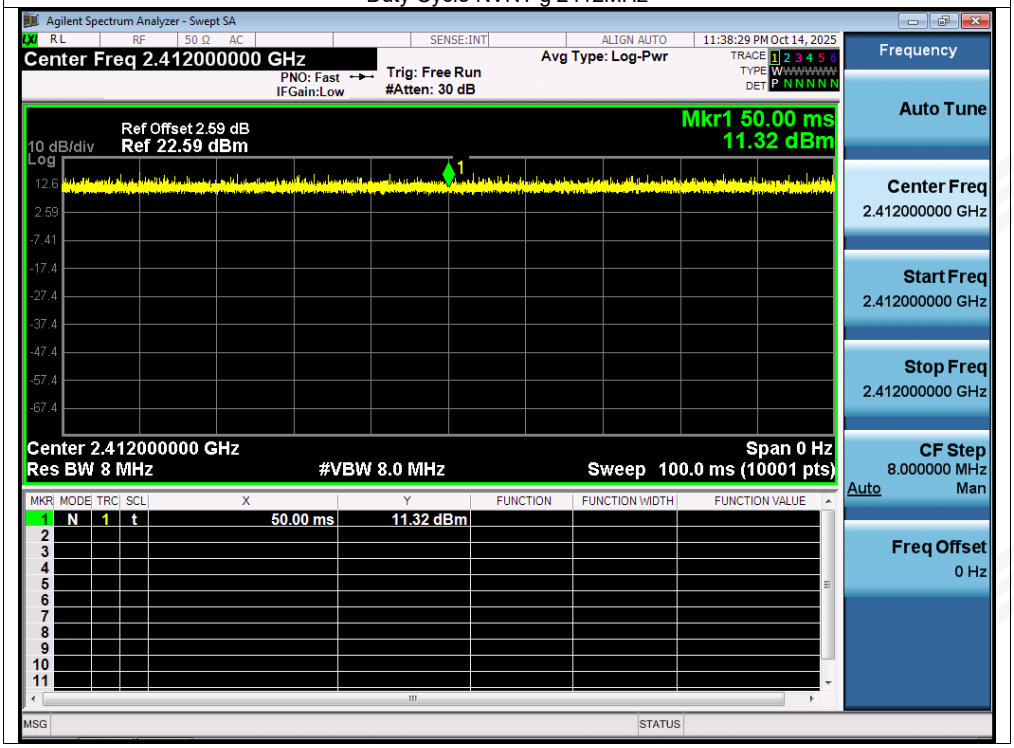
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	100	0
NVNT	g	2412	100	0
NVNT	n20	2412	100	0

Test Graphs

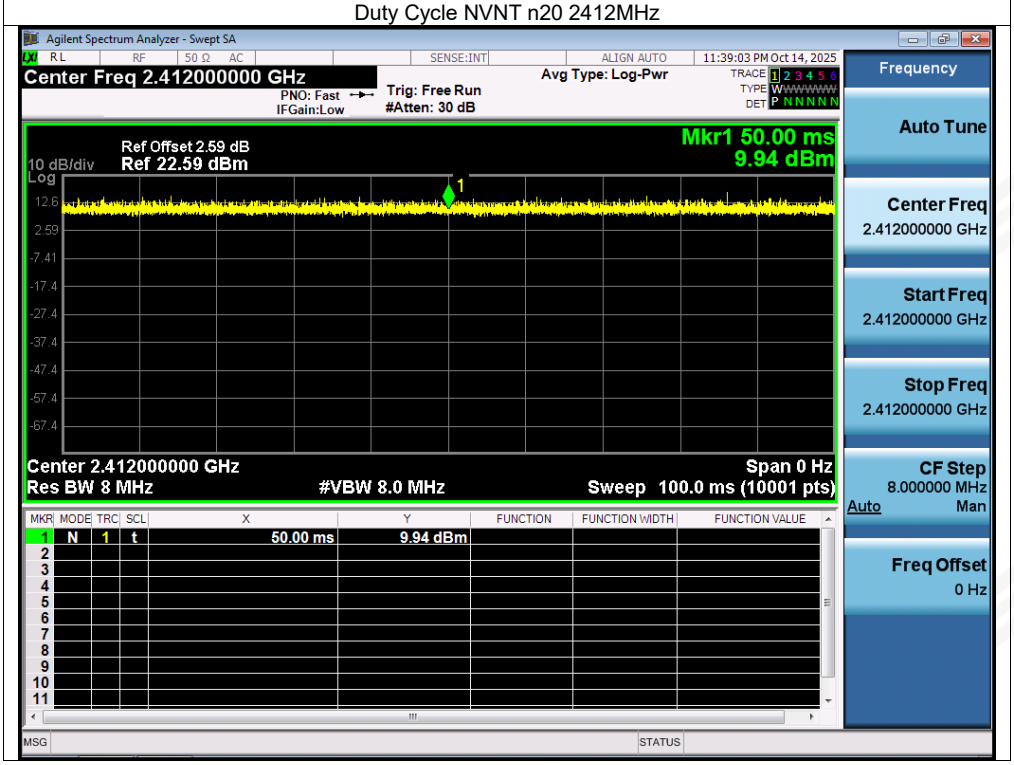
Duty Cycle NVNT b 2412MHz



Duty Cycle NVNT g 2412MHz



Duty Cycle NVNT n20 2412MHz

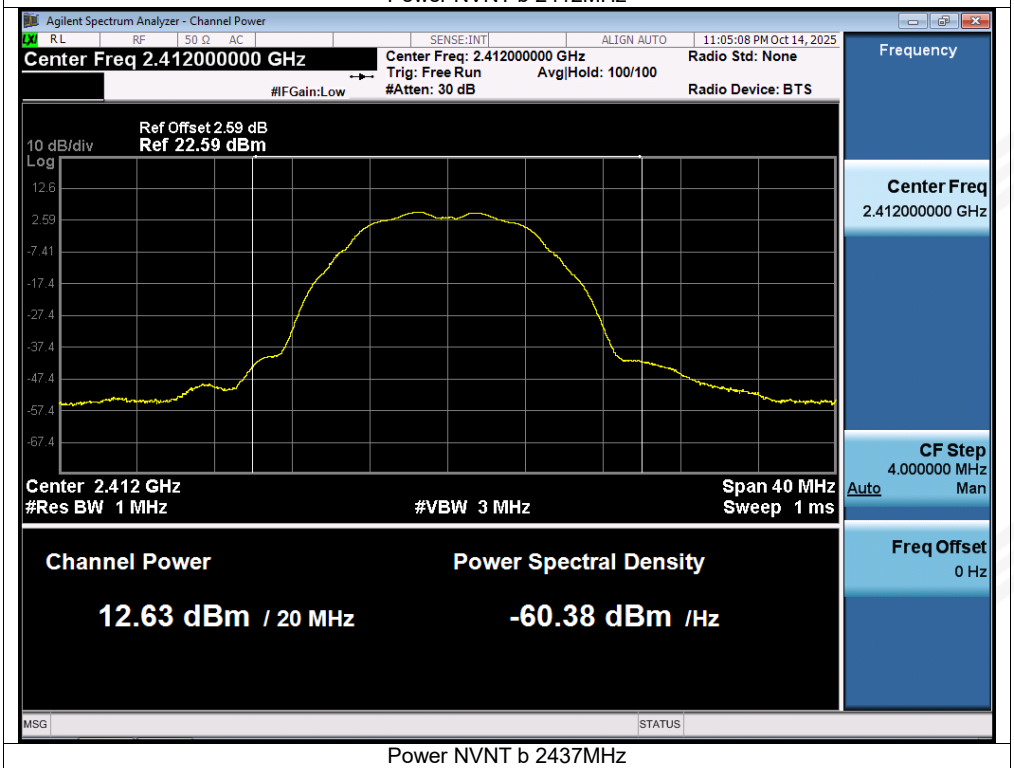


Maximum Conducted Output Power

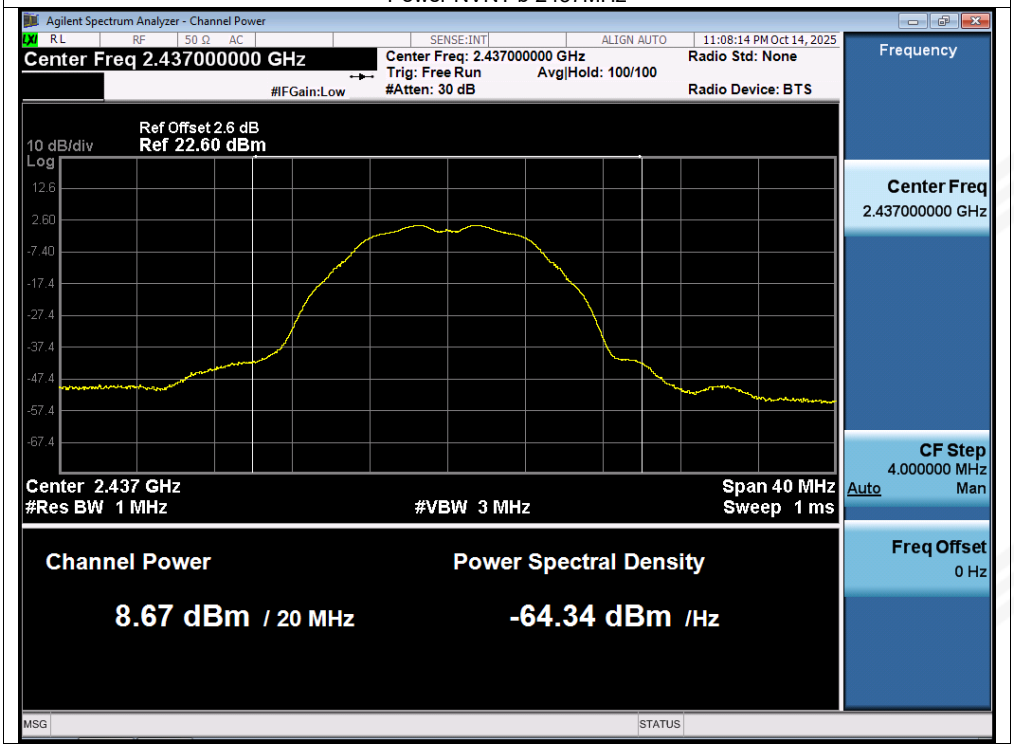
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	12.63	30	Pass
NVNT	b	2437	8.67	30	Pass
NVNT	b	2462	11.36	30	Pass
NVNT	g	2412	11.7	30	Pass
NVNT	g	2437	8.2	30	Pass
NVNT	g	2462	10.89	30	Pass
NVNT	n20	2412	10.14	30	Pass
NVNT	n20	2437	6.73	30	Pass
NVNT	n20	2462	9.23	30	Pass

Test Graphs

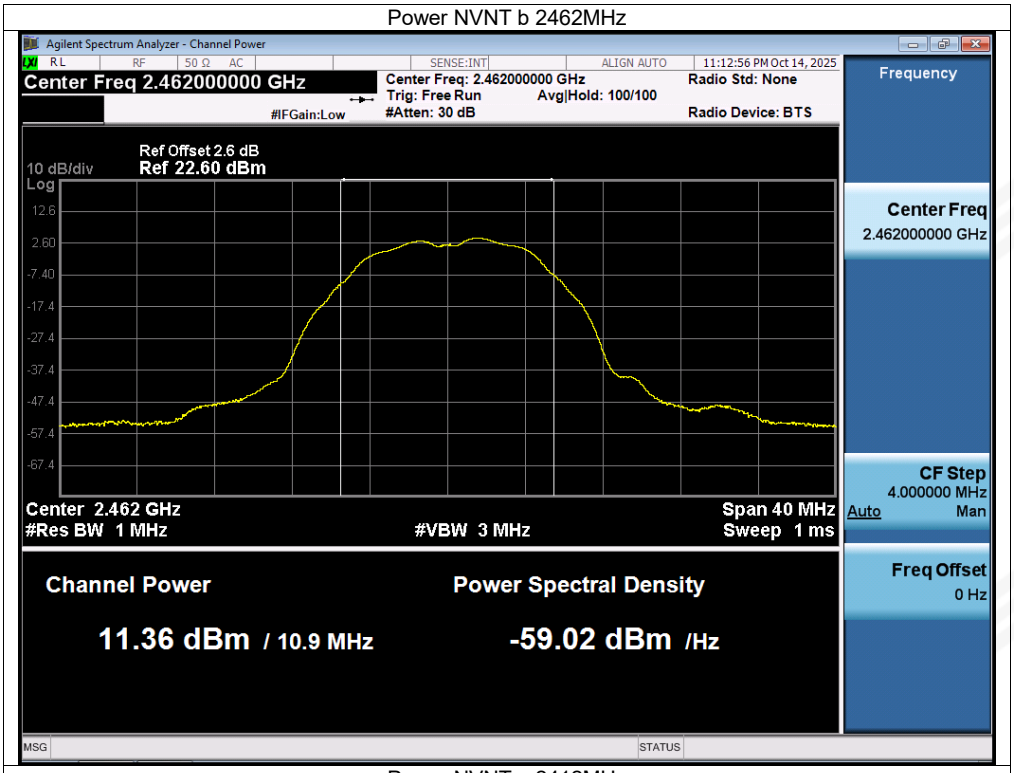
Power NVNT b 2412MHz



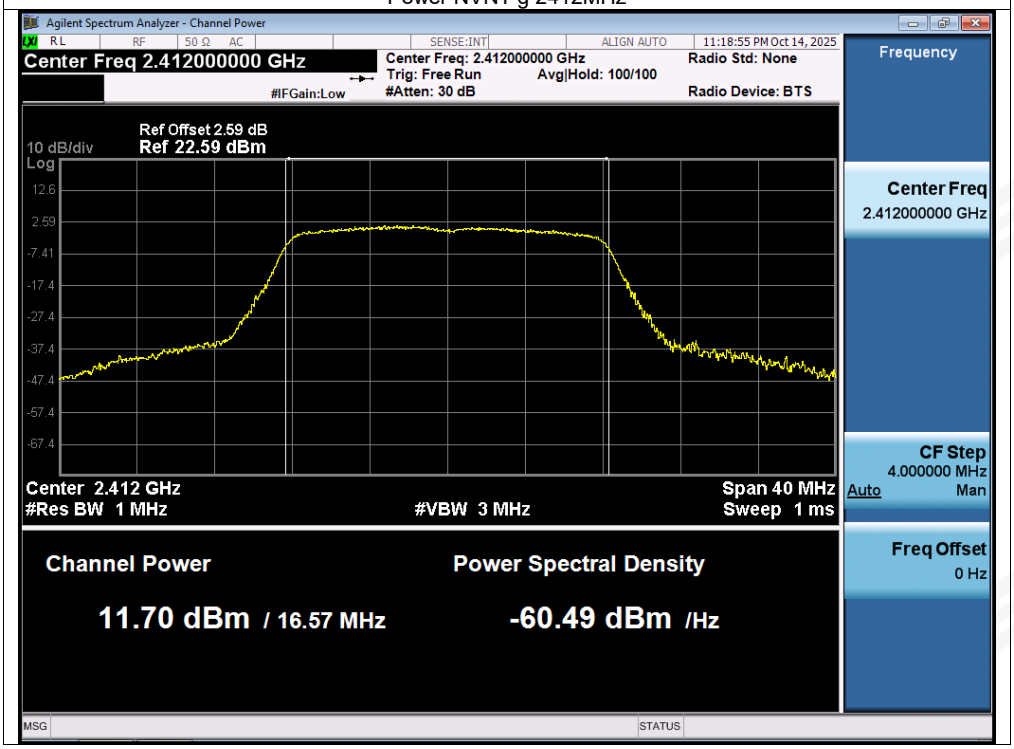
Power NVNT b 2437MHz



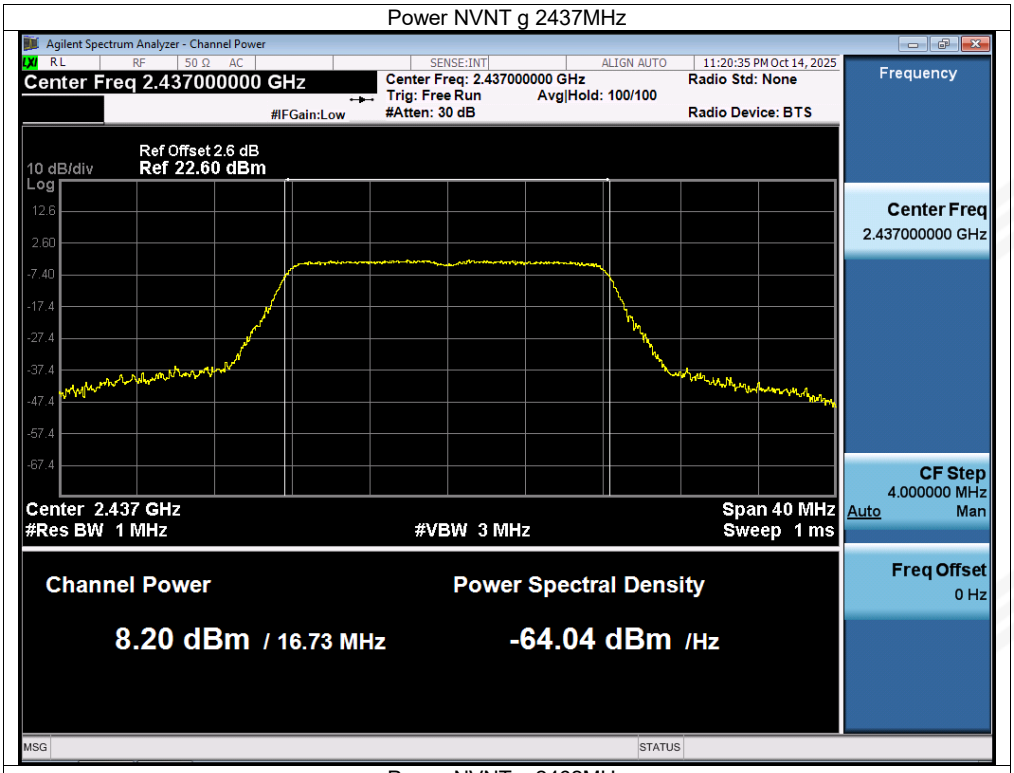
Power NVNT b 2462MHz



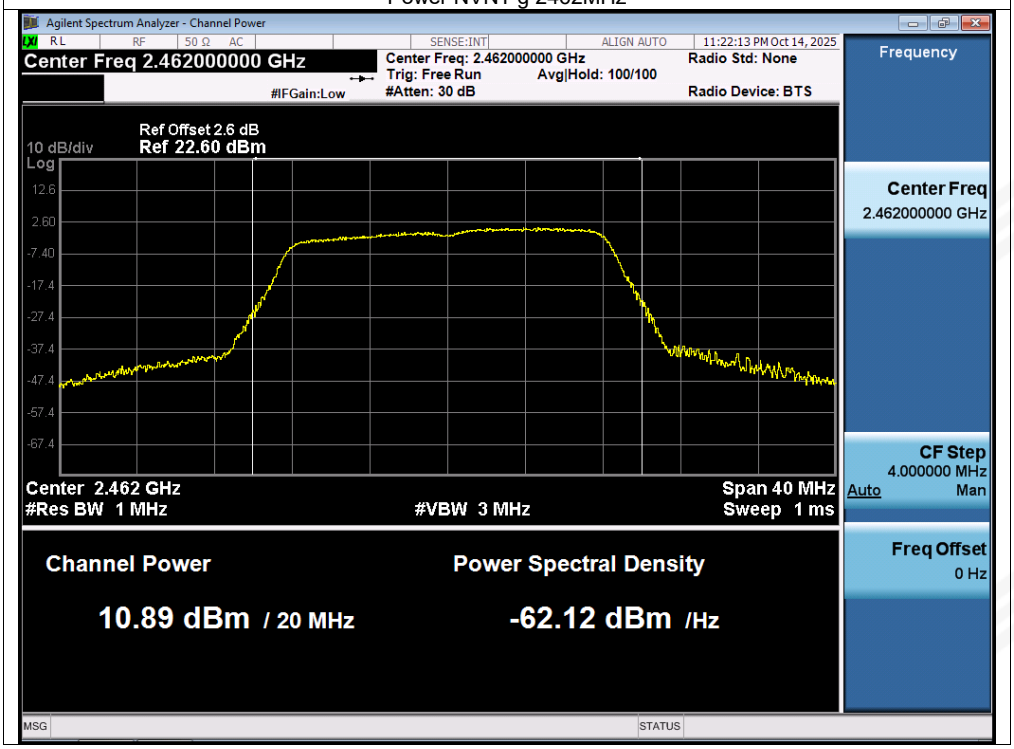
Power NVNT g 2412MHz



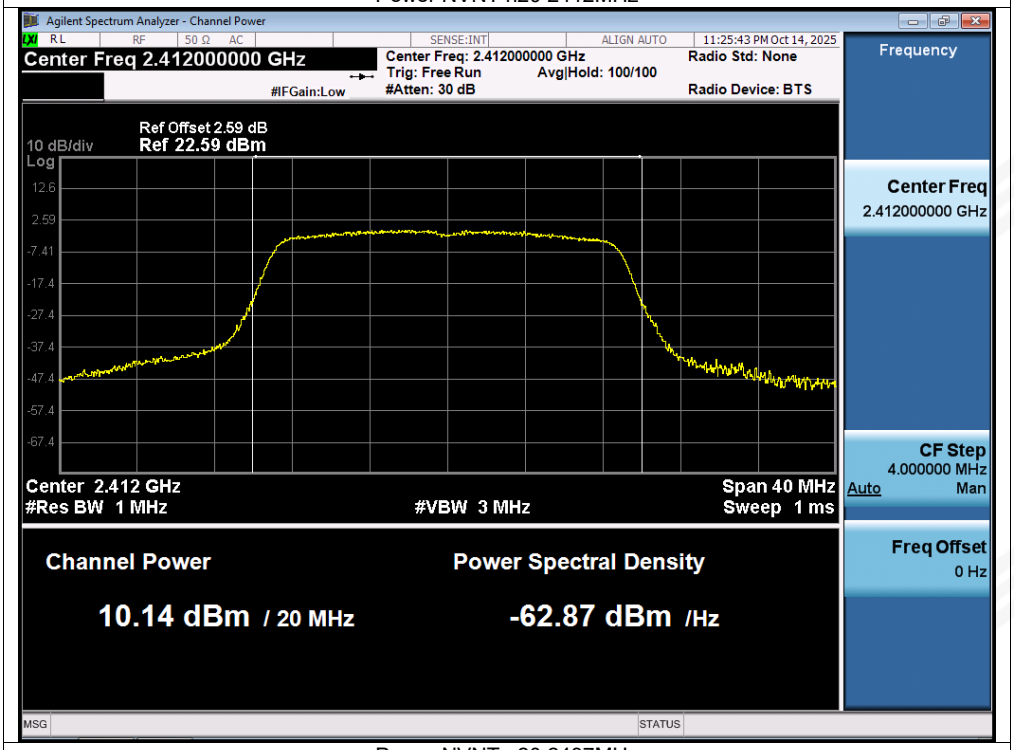
Power NVNT g 2437MHz



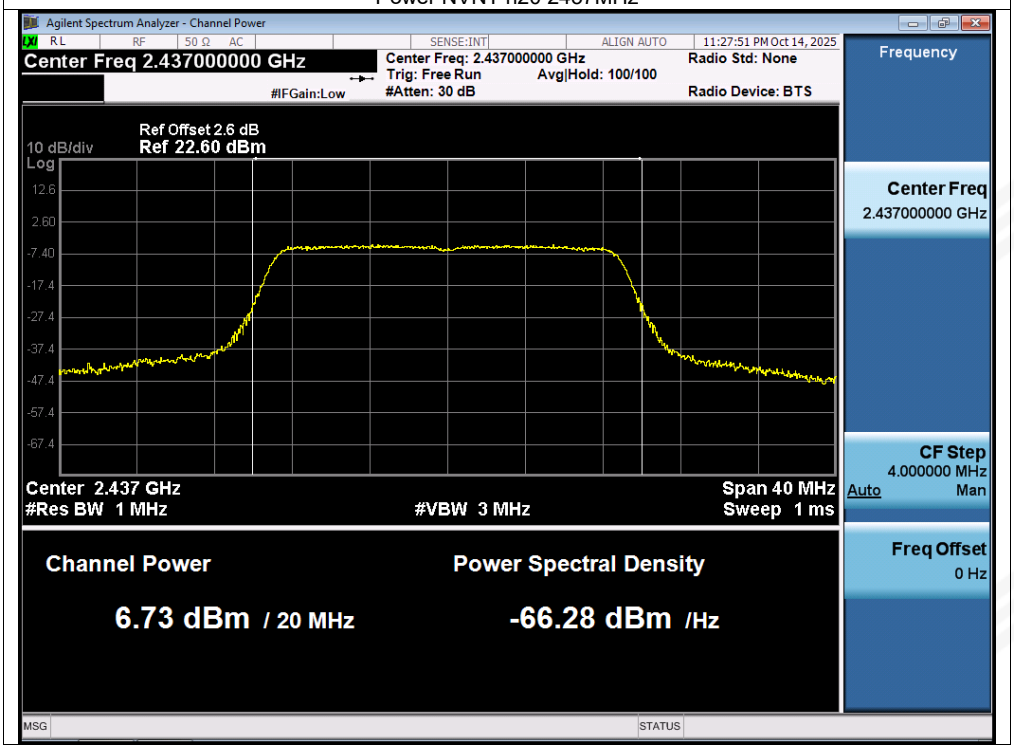
Power NVNT g 2462MHz



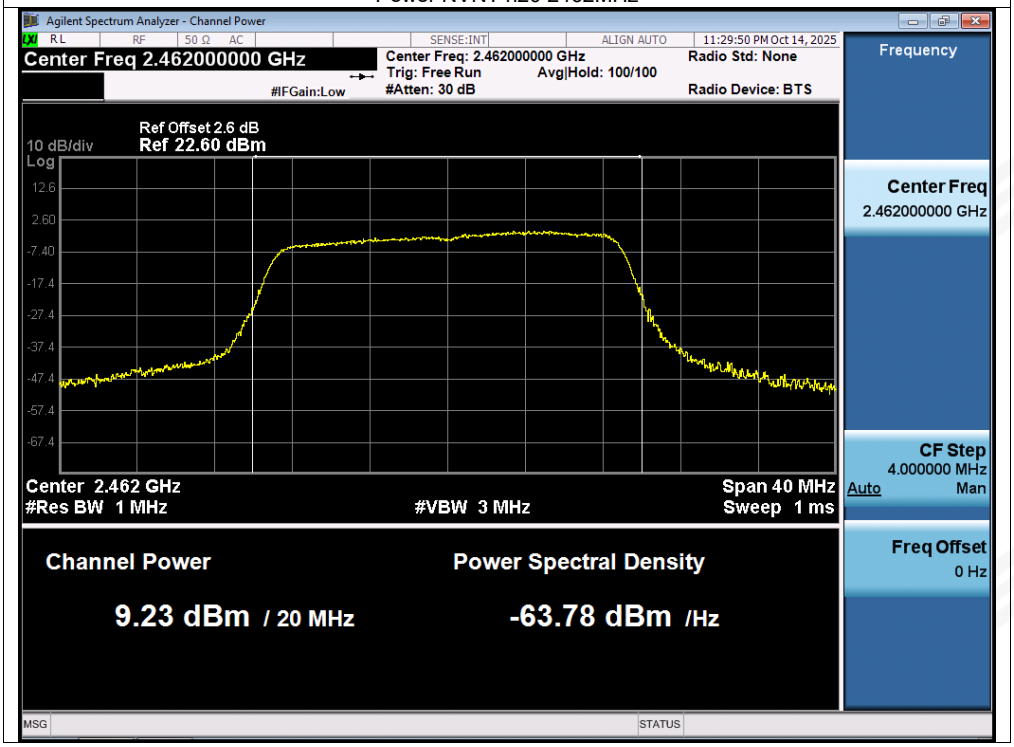
Power NVNT n20 2412MHz



Power NVNT n20 2437MHz



Power NVNT n20 2462MHz

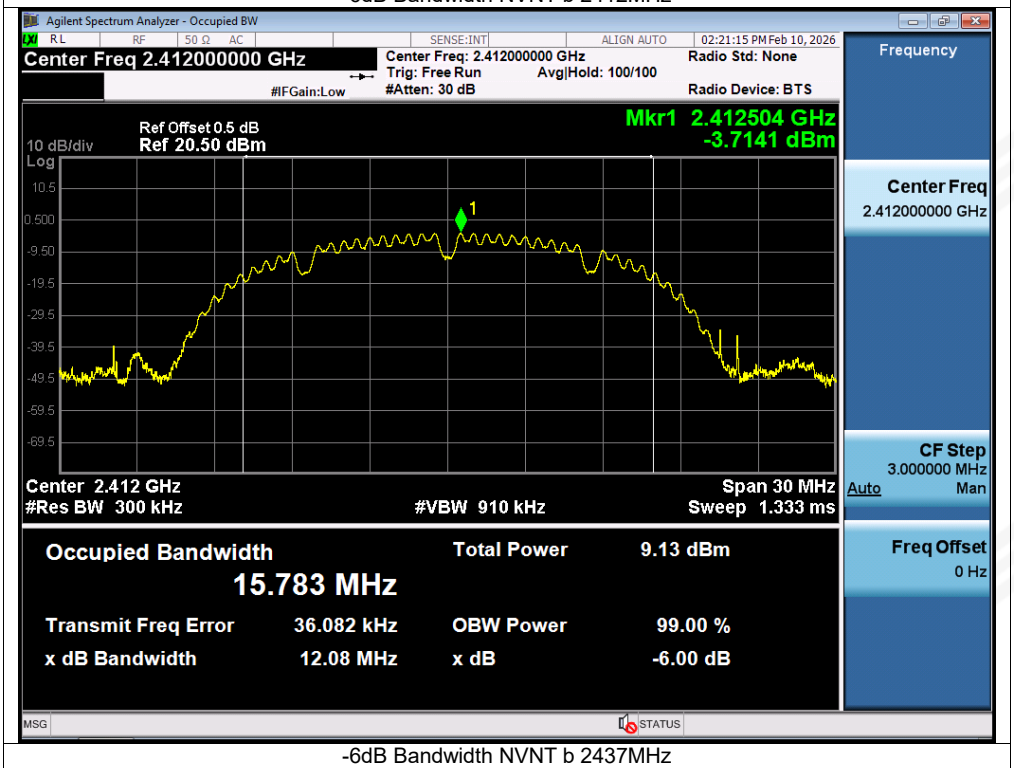


-6dB Bandwidth

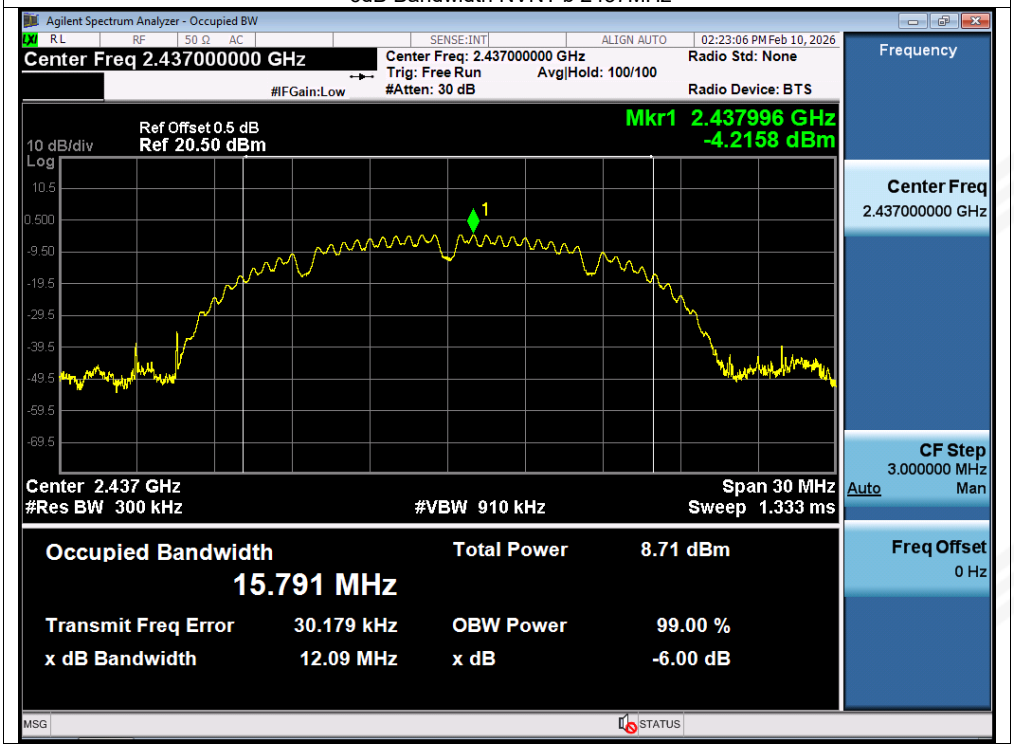
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	12.08	0.5	Pass
NVNT	b	2437	12.09	0.5	Pass
NVNT	b	2462	12.093	0.5	Pass
NVNT	g	2412	16.42	0.5	Pass
NVNT	g	2437	16.431	0.5	Pass
NVNT	g	2462	16.404	0.5	Pass
NVNT	n20	2412	17.579	0.5	Pass
NVNT	n20	2437	17.468	0.5	Pass
NVNT	n20	2462	17.665	0.5	Pass

Test Graphs

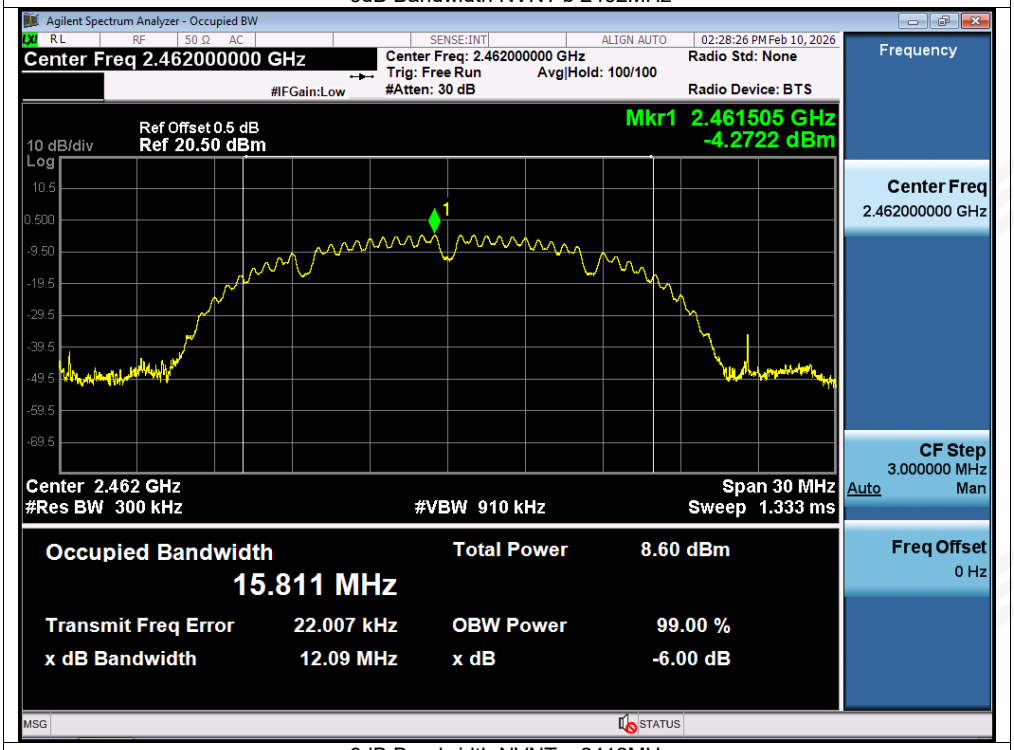
-6dB Bandwidth NVNT b 2412MHz



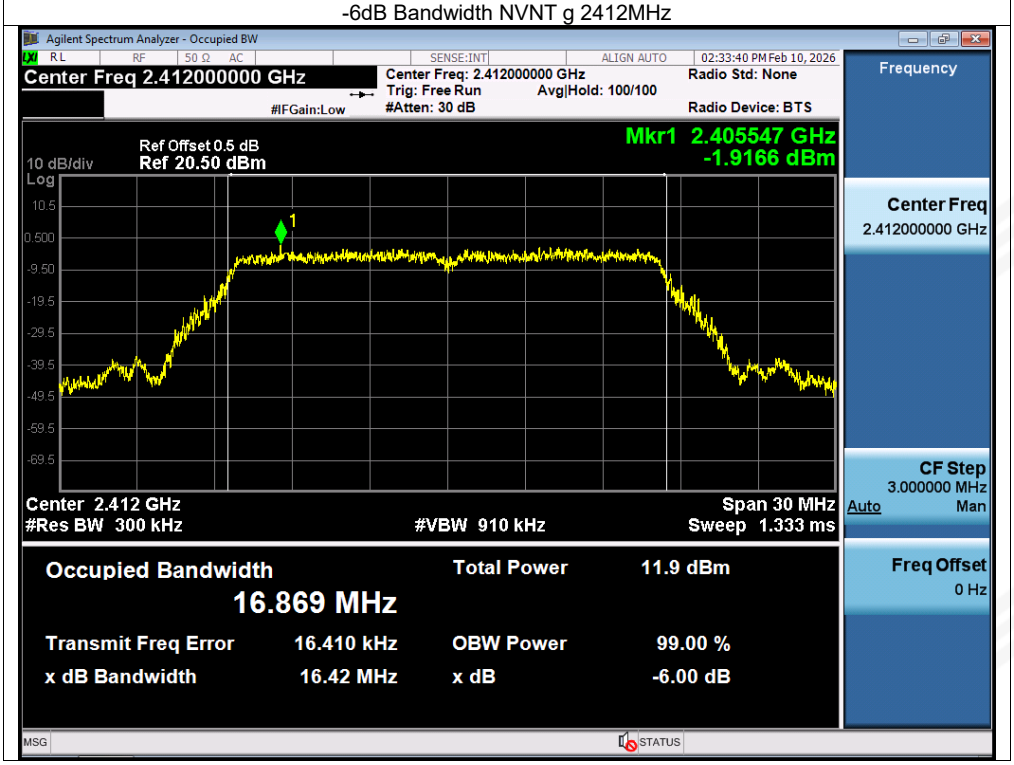
-6dB Bandwidth NVNT b 2437MHz



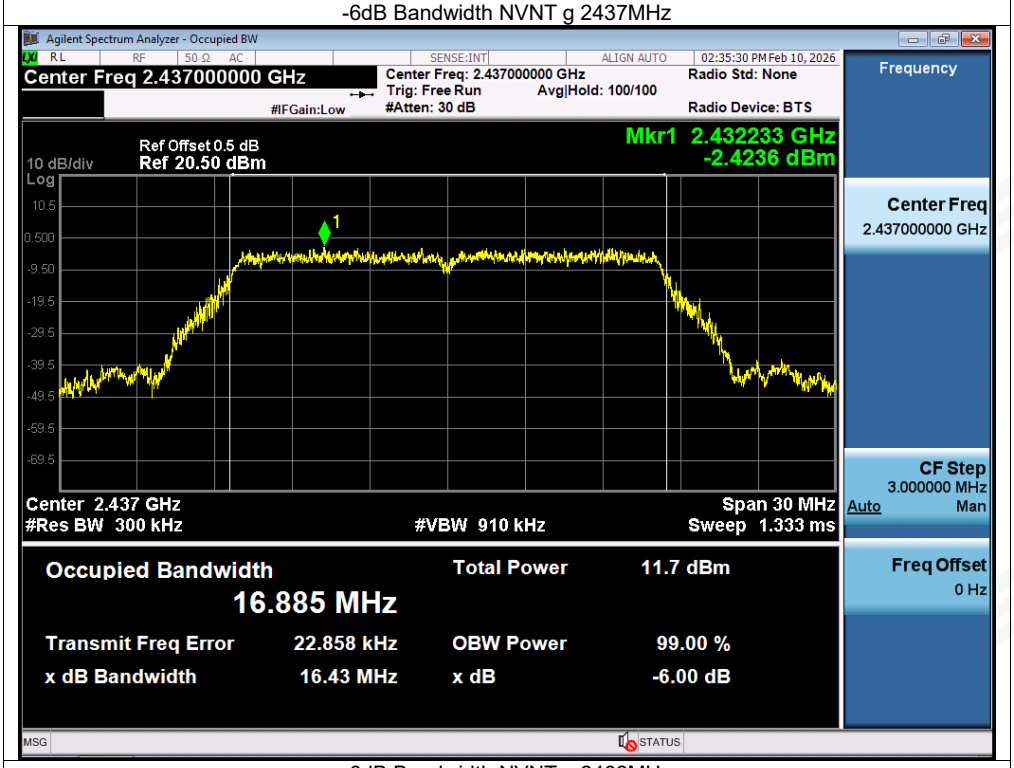
-6dB Bandwidth NVNT b 2462MHz



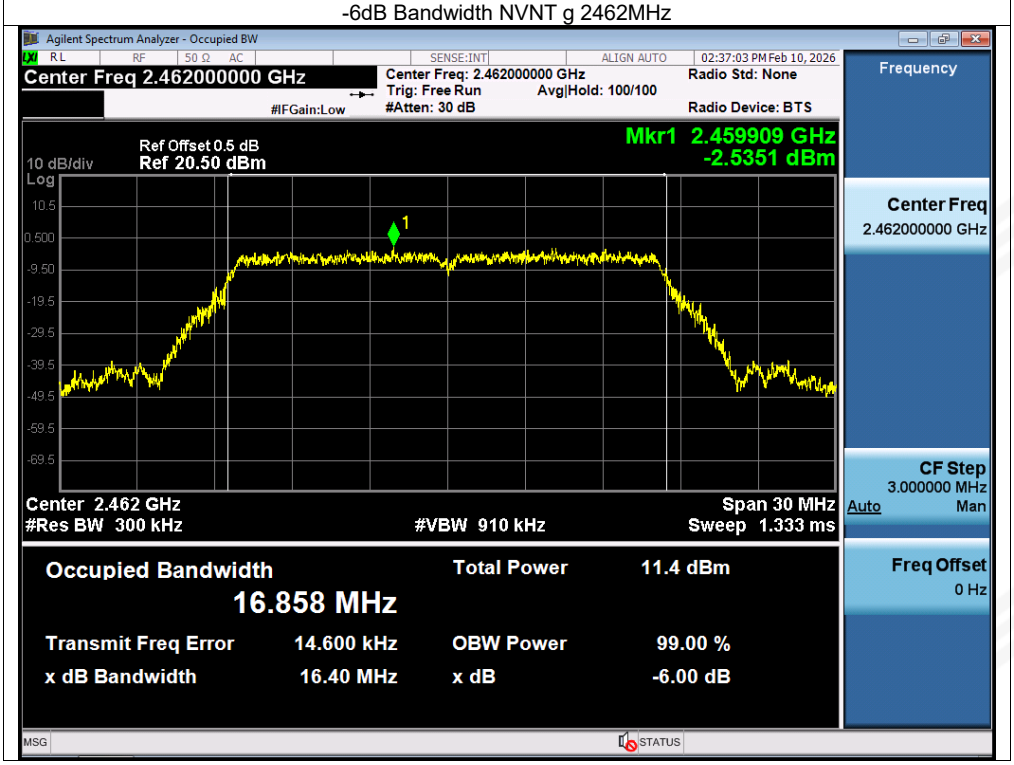
-6dB Bandwidth NVNT g 2412MHz



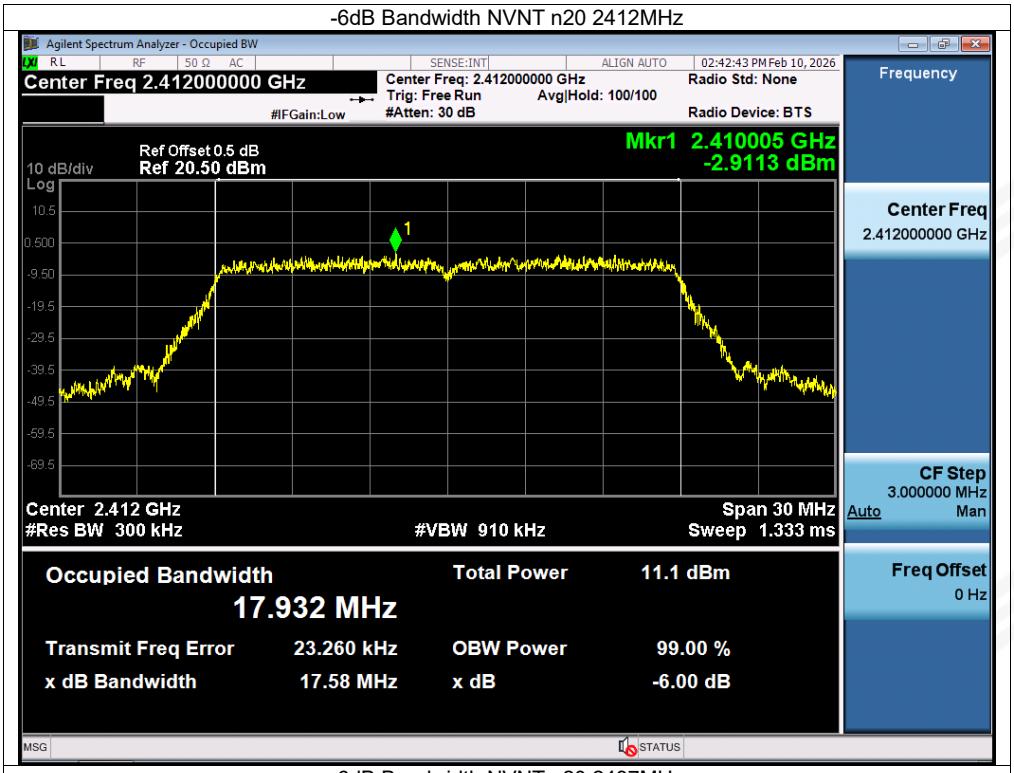
-6dB Bandwidth NVNT g 2437MHz



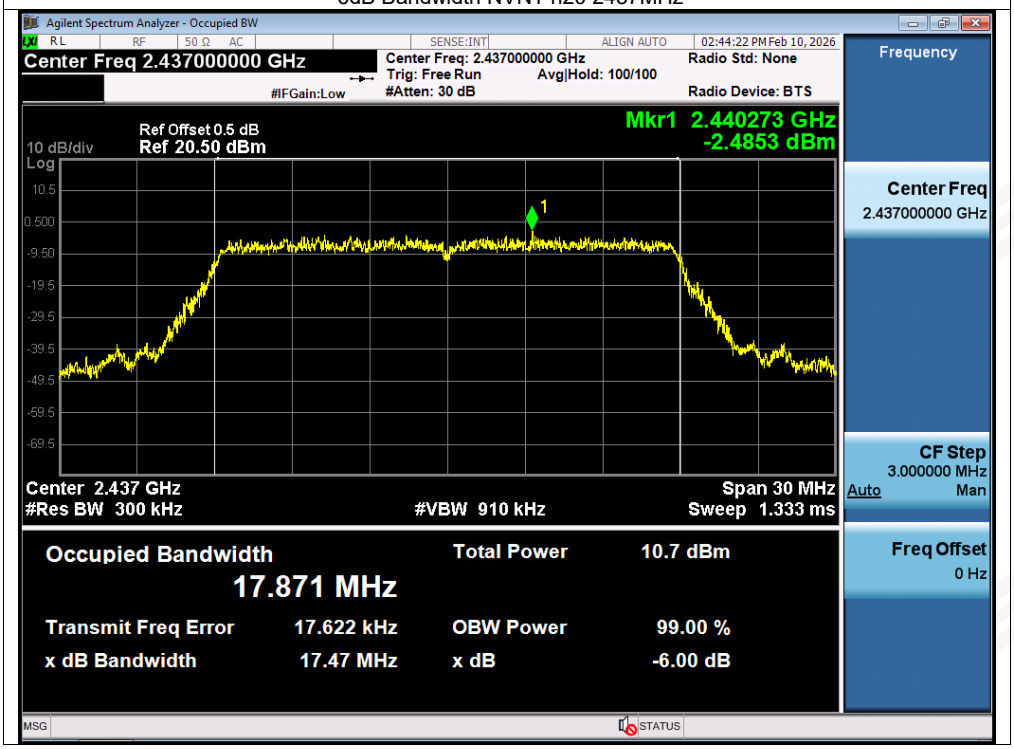
-6dB Bandwidth NVNT g 2462MHz



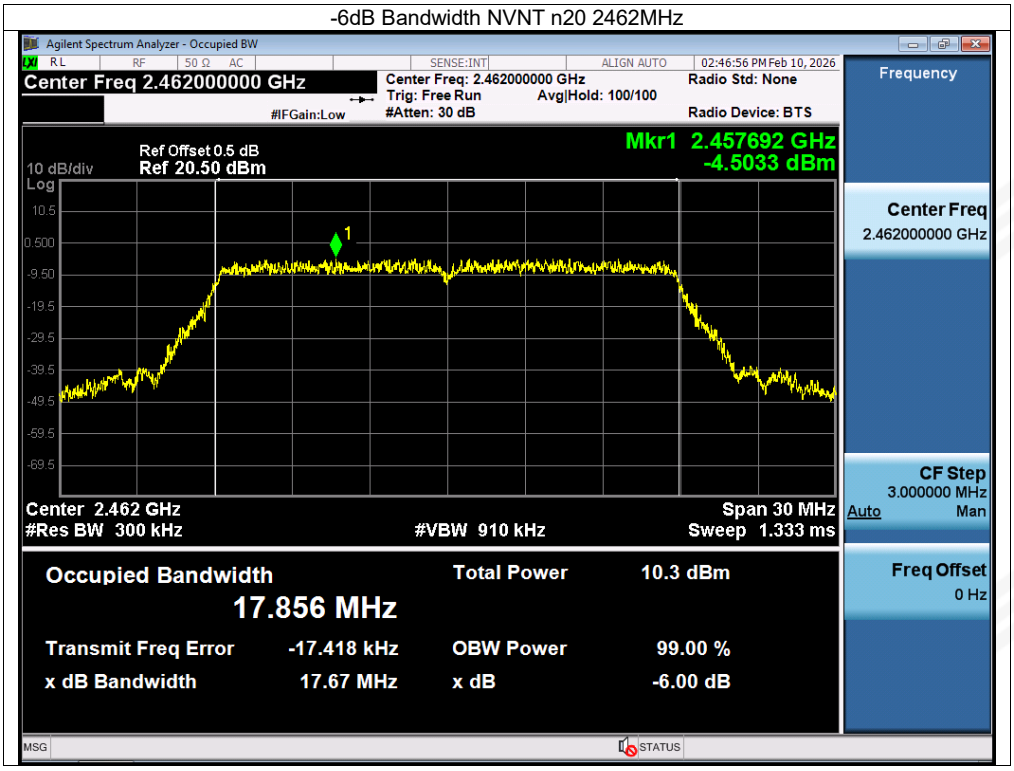
-6dB Bandwidth NVNT n20 2412MHz



-6dB Bandwidth NVNT n20 2437MHz



-6dB Bandwidth NVNT n20 2462MHz



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/10kHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-0.01	-5.24	8	Pass
NVNT	b	2437	-4.13	-9.36	8	Pass
NVNT	b	2462	-2.72	-7.95	8	Pass
NVNT	g	2412	-10.67	-15.9	8	Pass
NVNT	g	2437	-15.23	-20.46	8	Pass
NVNT	g	2462	-11.81	-17.04	8	Pass
NVNT	n20	2412	-12.28	-17.51	8	Pass
NVNT	n20	2437	-16.43	-21.66	8	Pass
NVNT	n20	2462	-12.5	-17.73	8	Pass

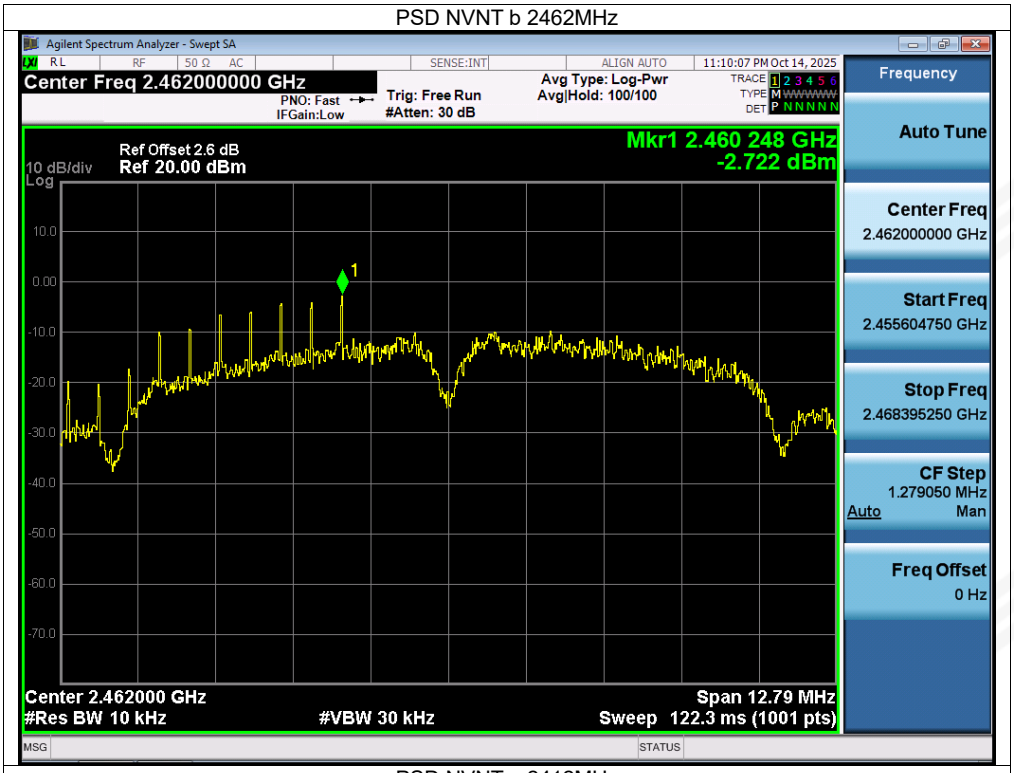
Note: Correction Factor = 10log(3KHz/RBW in measurement) =-5.23
Power Spectral Density (dBm/3kHz)= Power Spectral Density (dBm/10kHz)-5.23

Test Graphs

PSD NVNT b 2412MHz

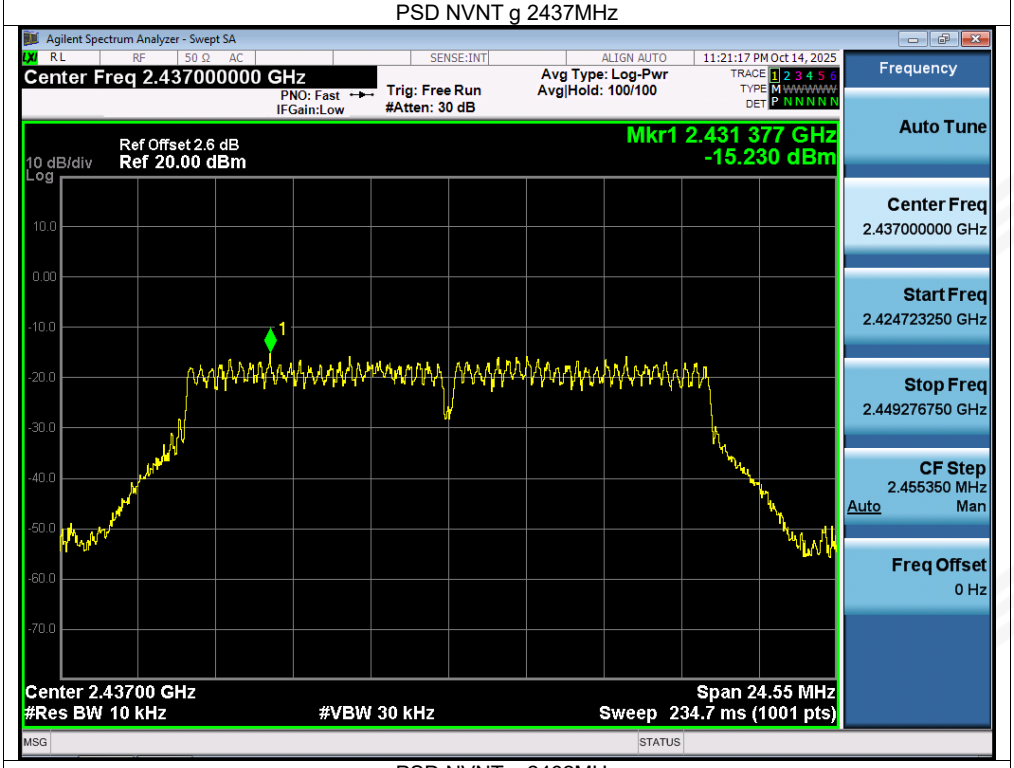
PSD NVNT b 2437MHz

PSD NVNT b 2462MHz

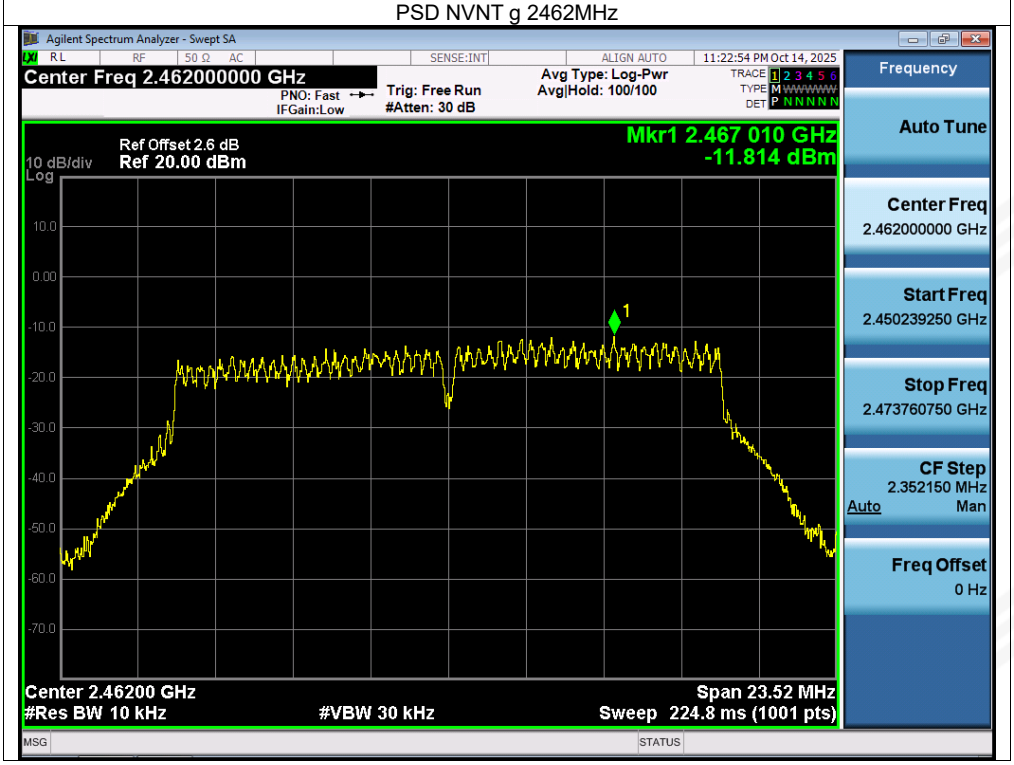


PSD NVNT g 2412MHz

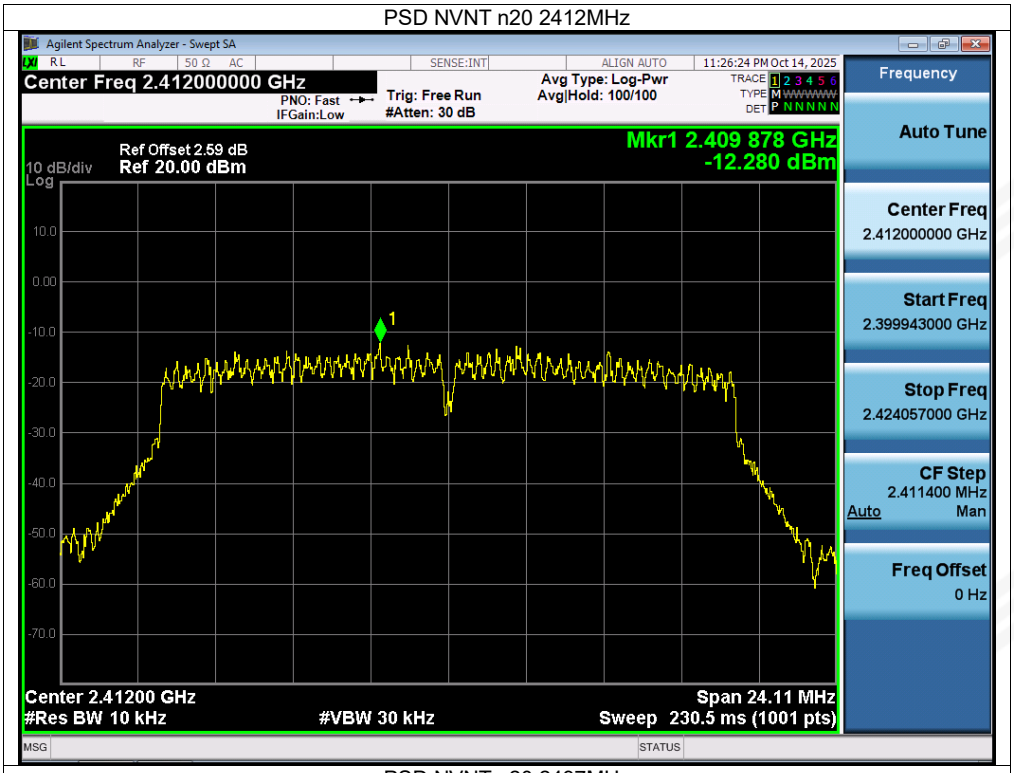
PSD NVNT g 2437MHz



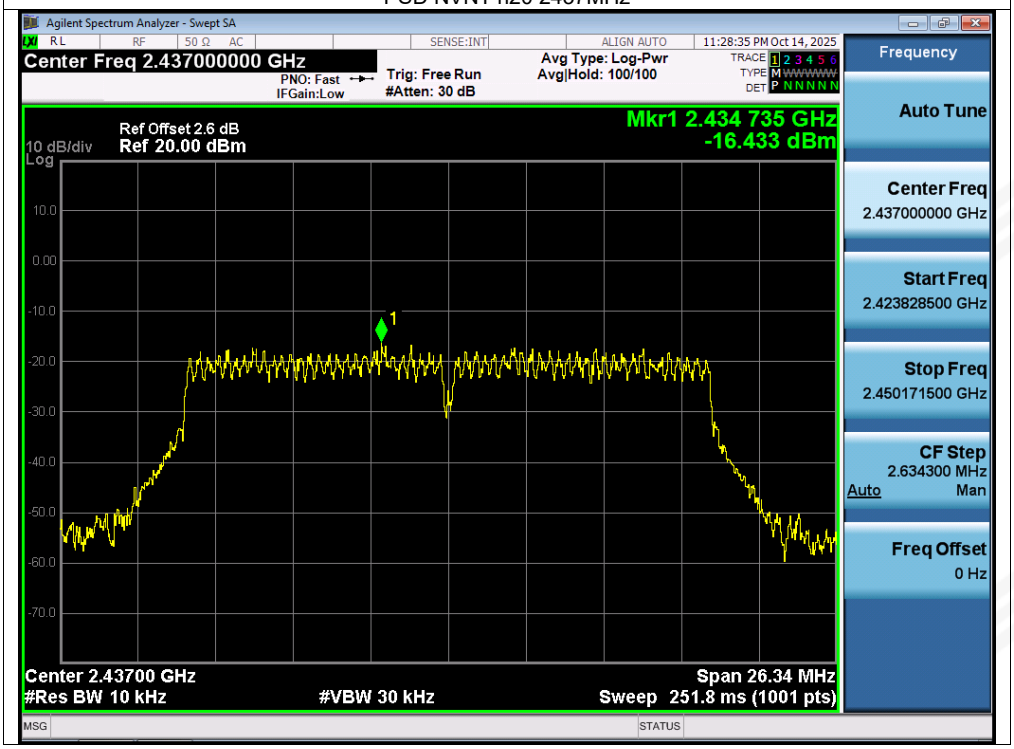
PSD NVNT g 2462MHz



PSD NVNT n20 2412MHz



PSD NVNT n20 2437MHz



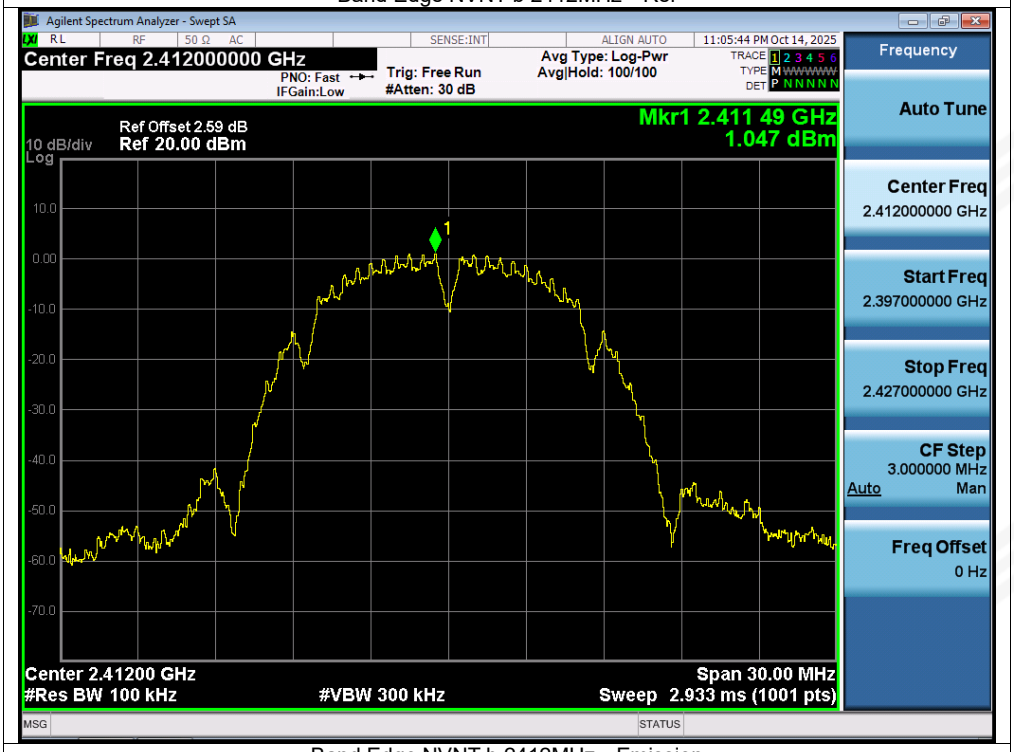
PSD NVNT n20 2462MHz

Band Edge

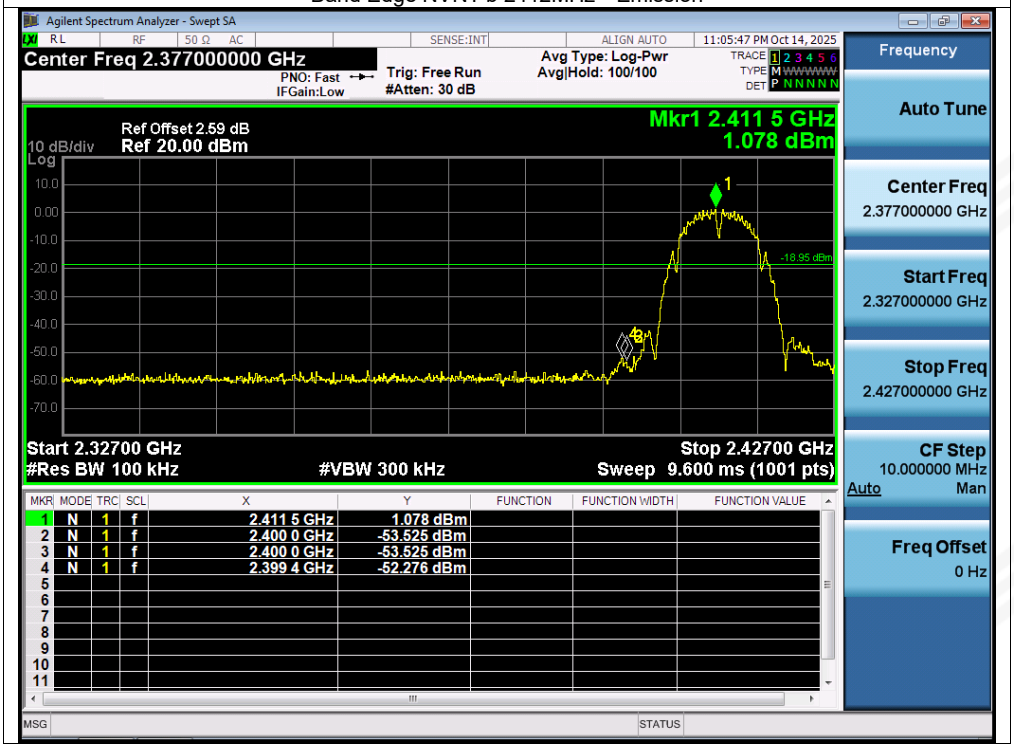
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-53.32	-20	Pass
NVNT	b	2462	-56.66	-20	Pass
NVNT	g	2412	-35.91	-20	Pass
NVNT	g	2462	-46.36	-20	Pass
NVNT	n20	2412	-37.64	-20	Pass
NVNT	n20	2462	-48.77	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ref

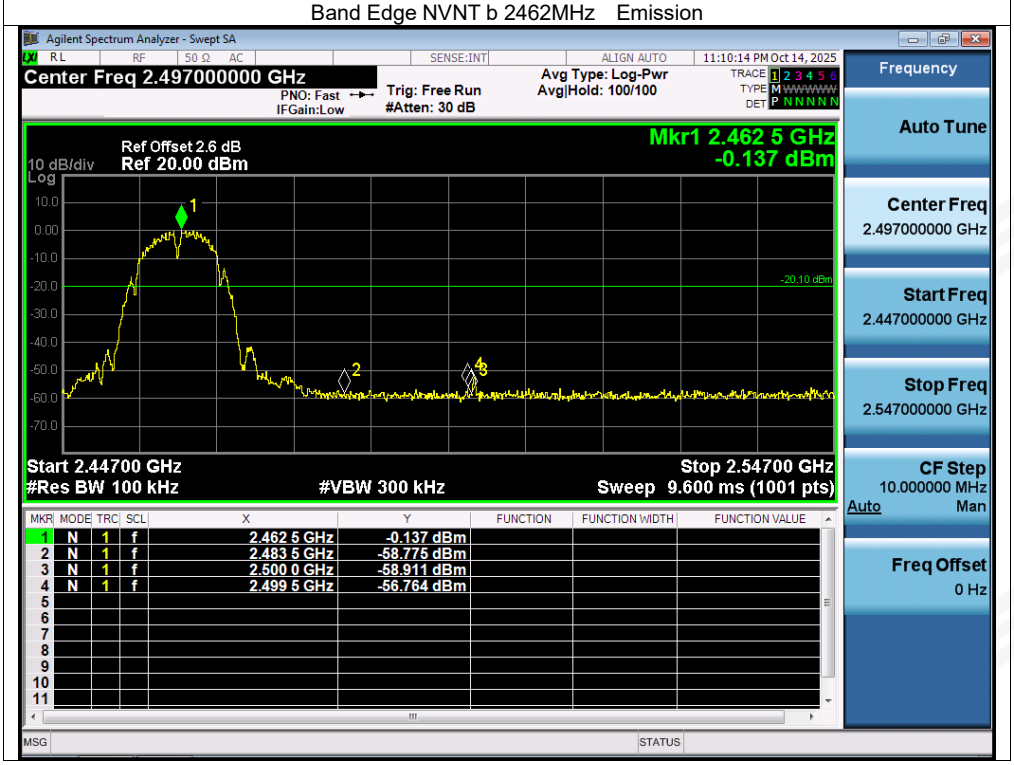


Band Edge NVNT b 2412MHz Emission



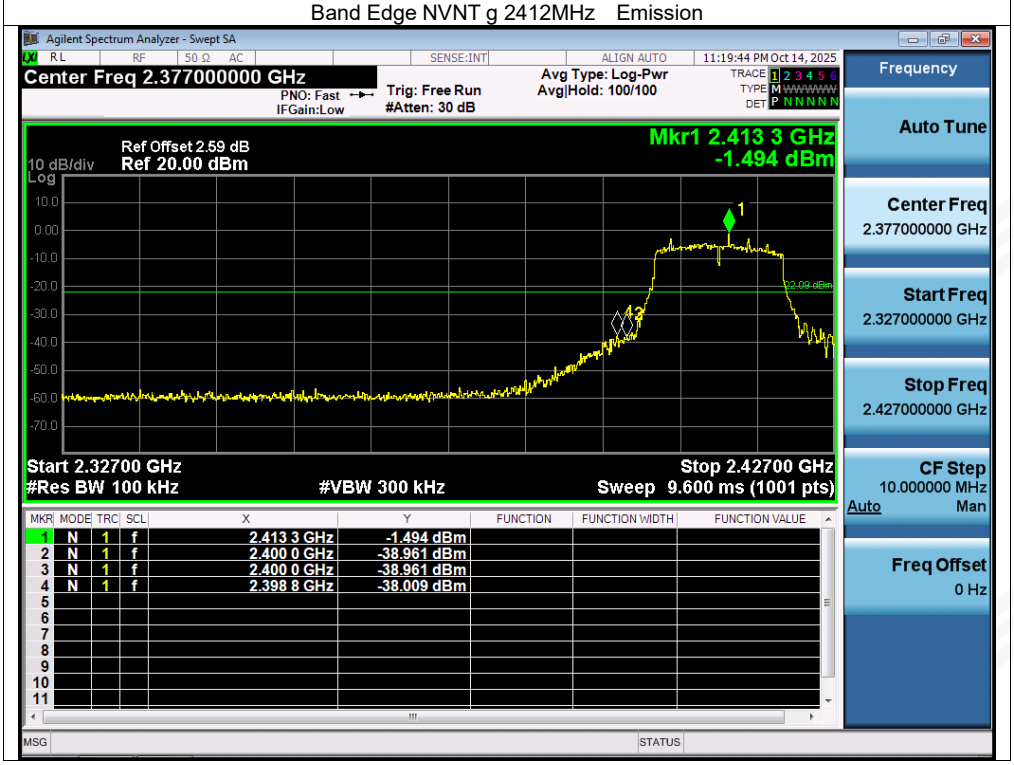
Band Edge NVNT b 2462MHz Ref

Band Edge NVNT b 2462MHz Emission



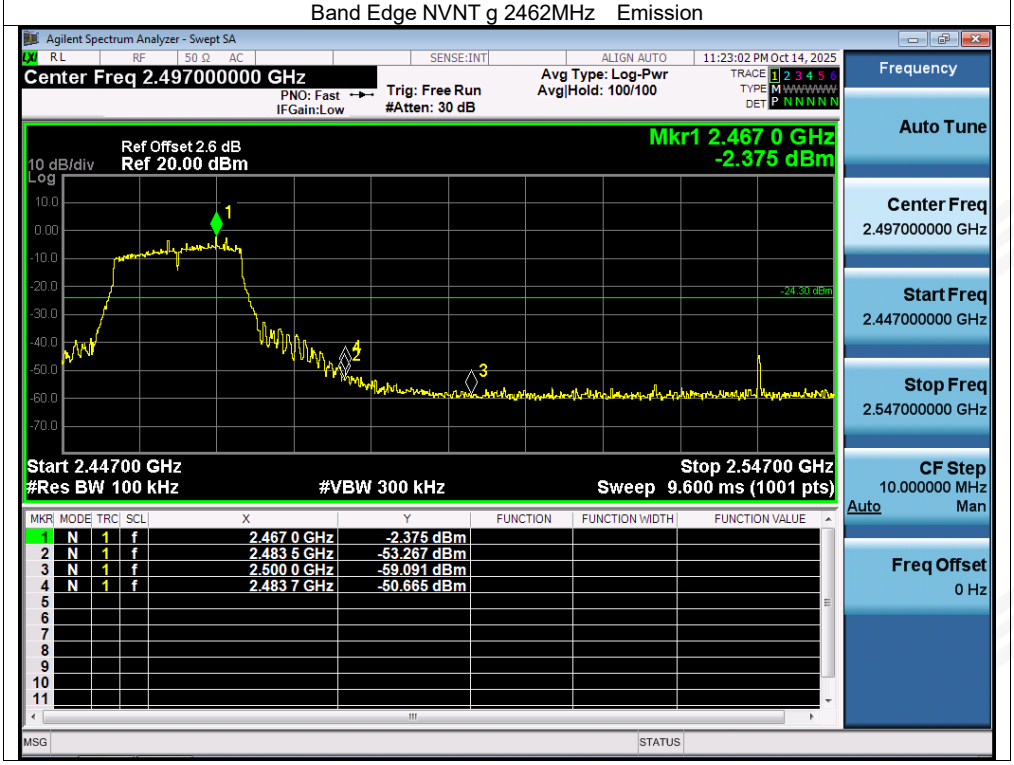
Band Edge NVNT g 2412MHz Ref

Band Edge NVNT g 2412MHz Emission

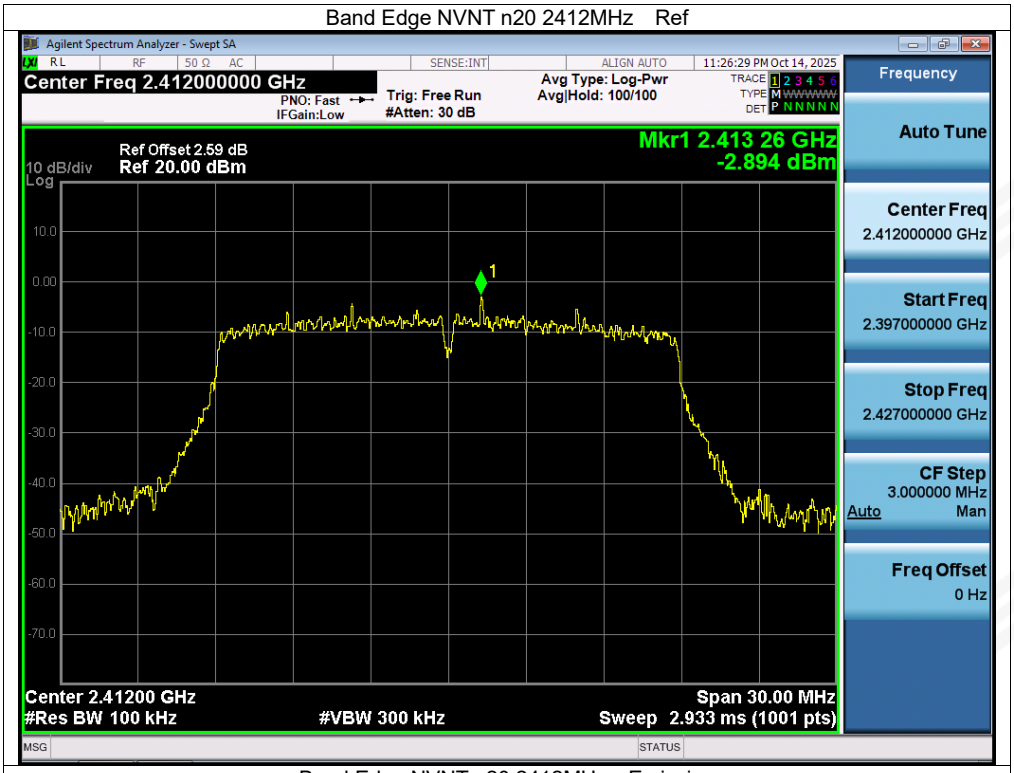


Band Edge NVNT g 2462MHz Ref

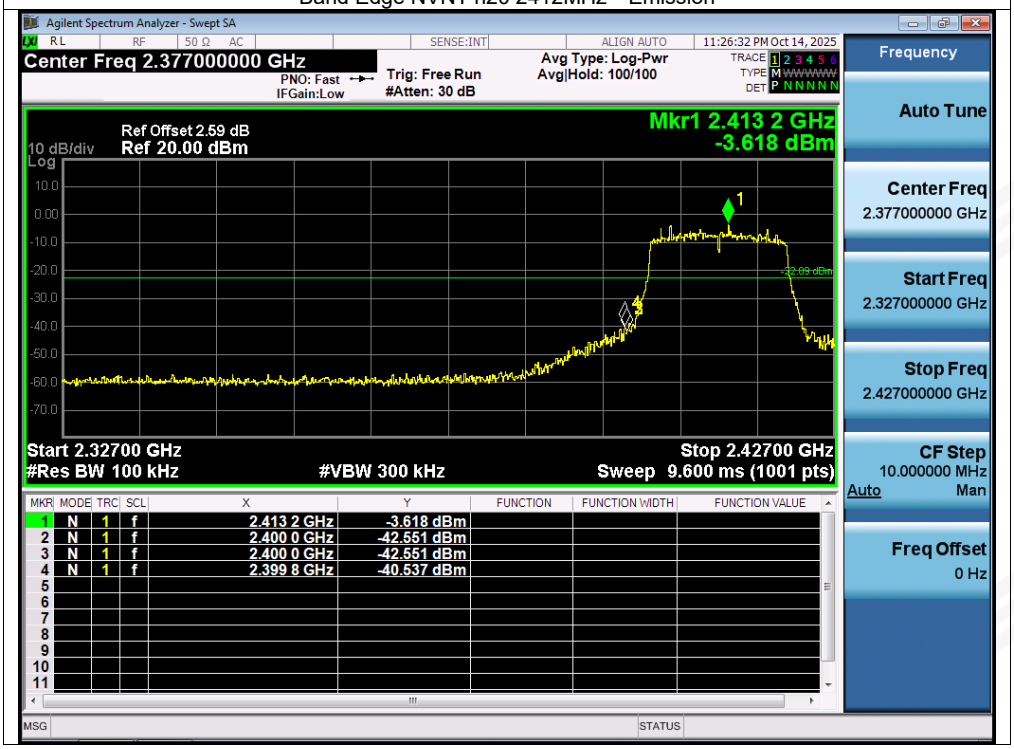
Band Edge NVNT g 2462MHz Emission



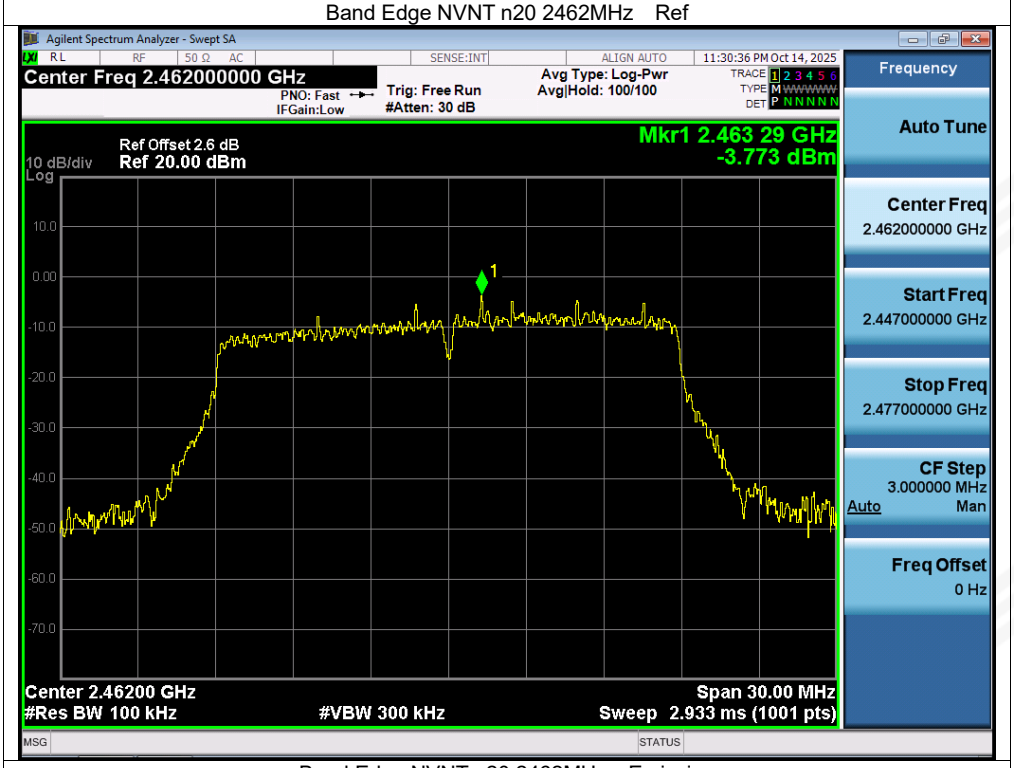
Band Edge NVNT n20 2412MHz Ref



Band Edge NVNT n20 2412MHz Emission



Band Edge NVNT n20 2462MHz Ref



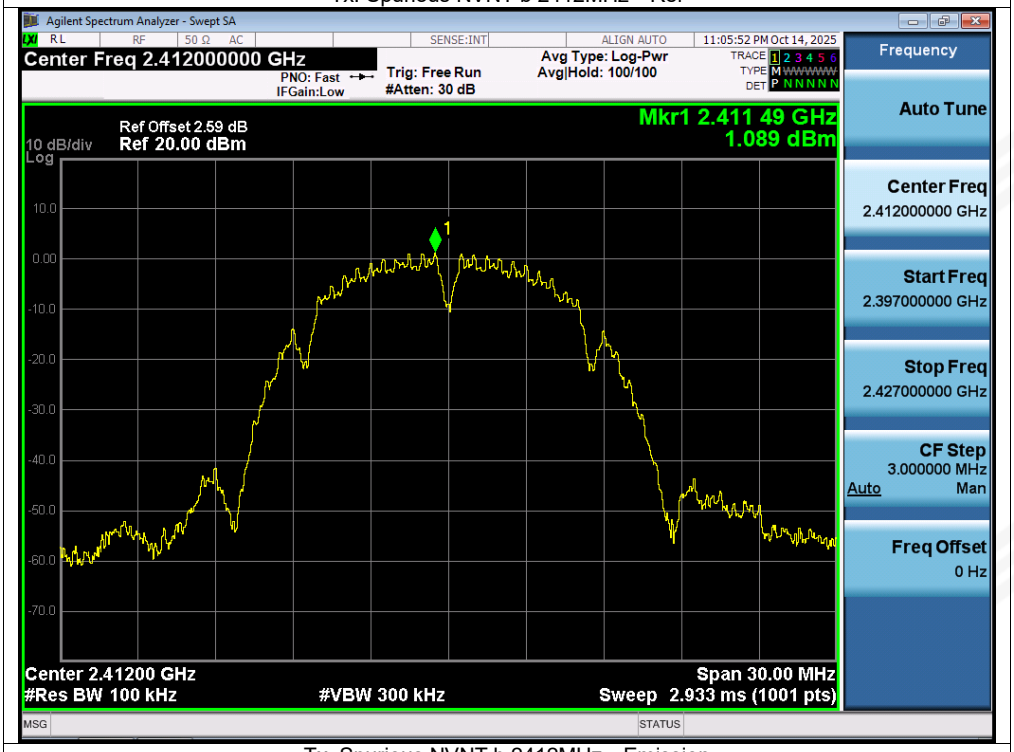
Band Edge NVNT n20 2462MHz Emission

Conducted RF Spurious Emission

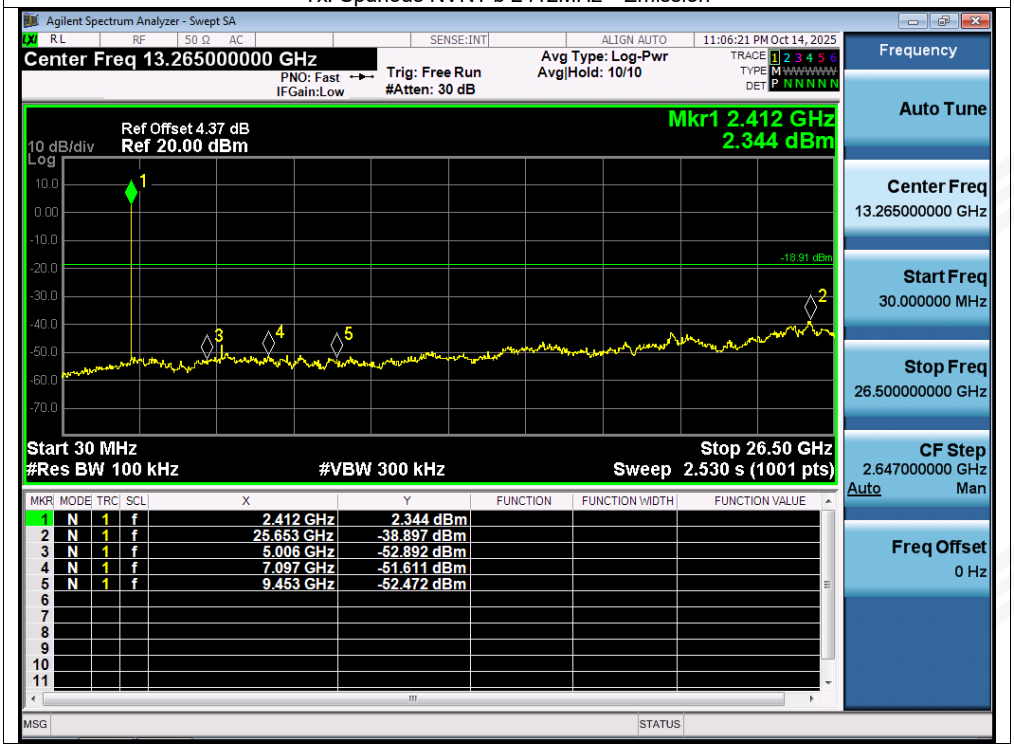
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-39.98	-20	Pass
NVNT	b	2437	-35.7	-20	Pass
NVNT	b	2462	-38.49	-20	Pass
NVNT	g	2412	-37.66	-20	Pass
NVNT	g	2437	-32.38	-20	Pass
NVNT	g	2462	-36.64	-20	Pass
NVNT	n20	2412	-36.27	-20	Pass
NVNT	n20	2437	-31.1	-20	Pass
NVNT	n20	2462	-34.73	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ref

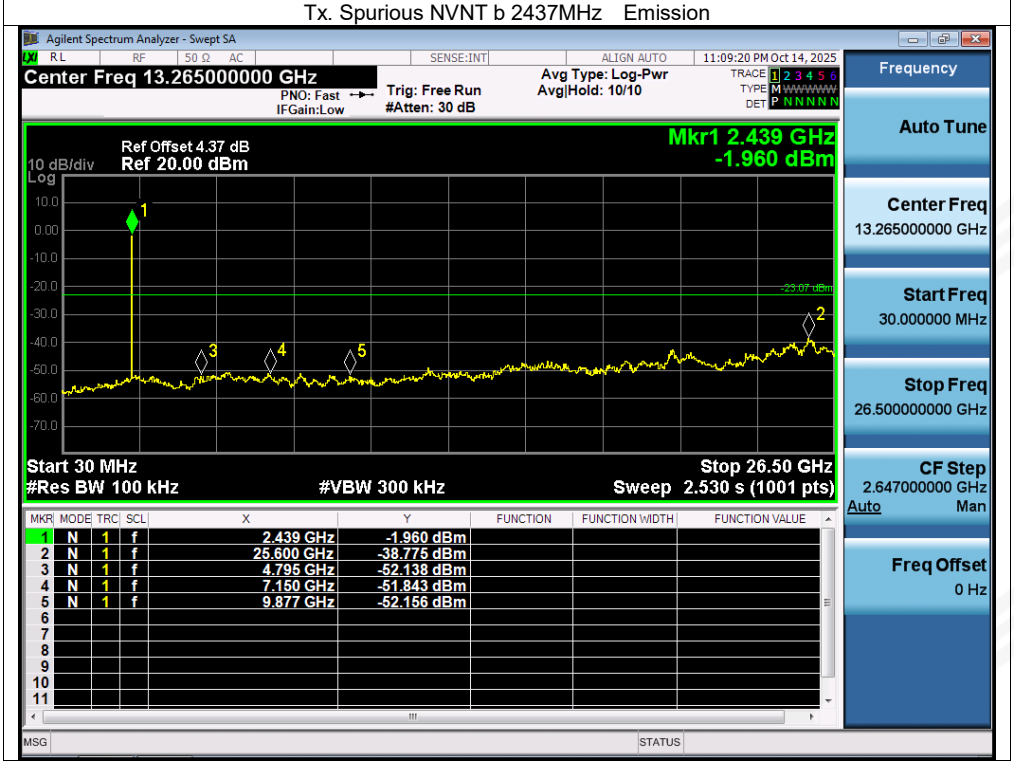


Tx. Spurious NVNT b 2412MHz Emission

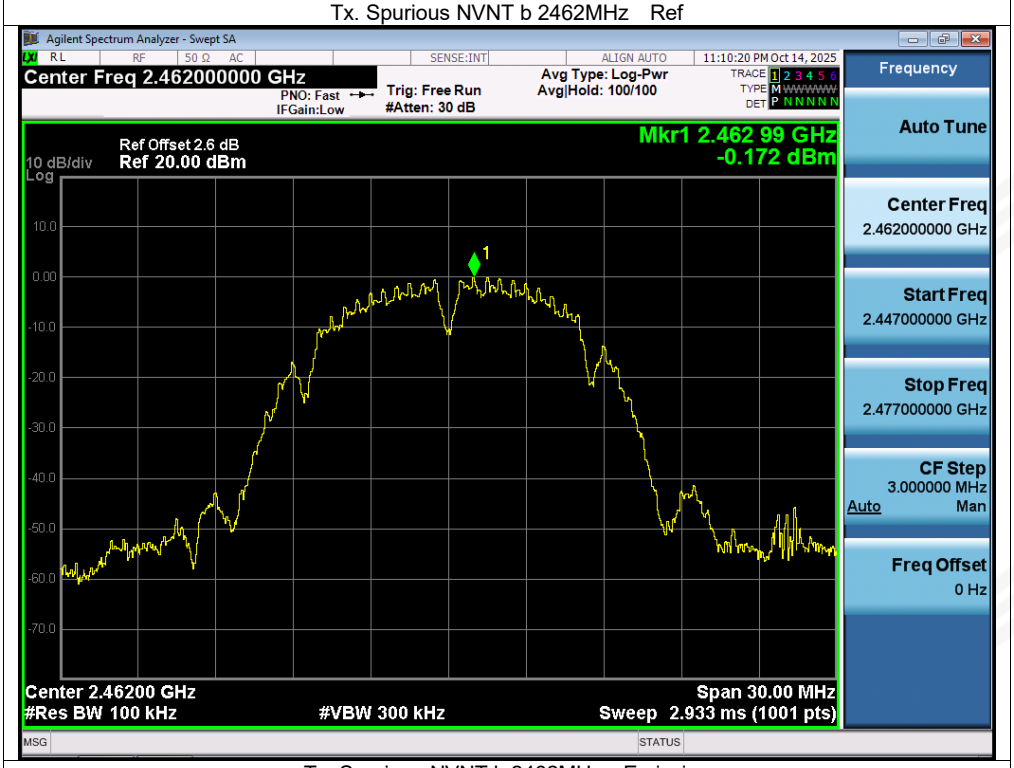


Tx. Spurious NVNT b 2437MHz Ref

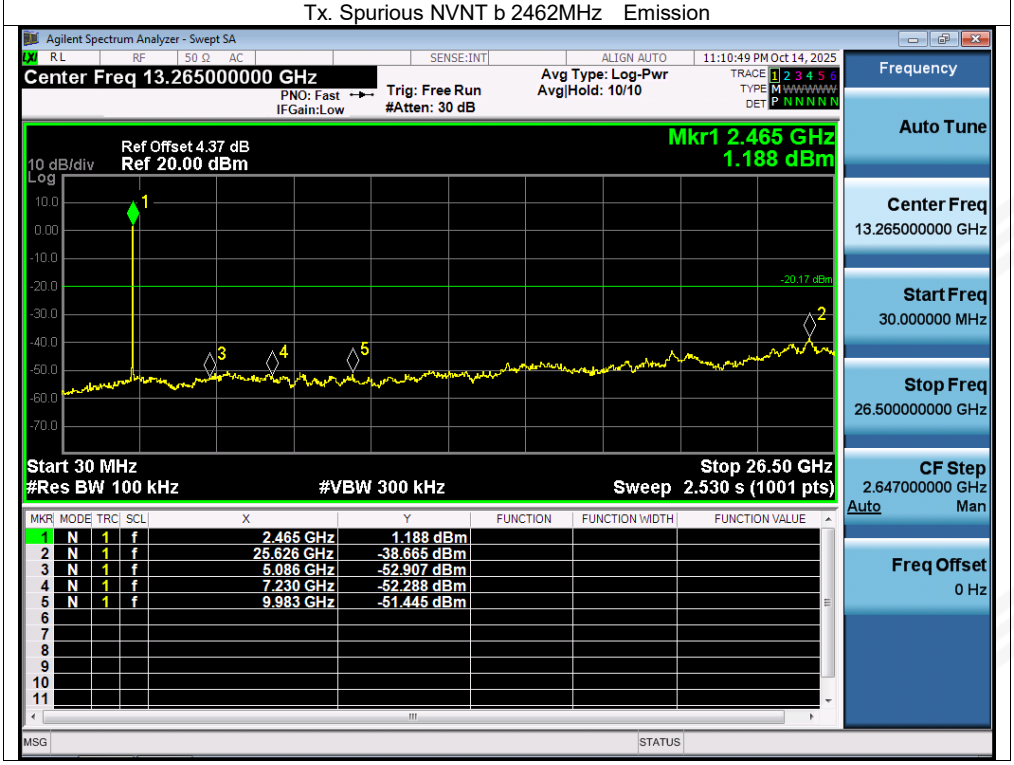
Tx. Spurious NVNT b 2437MHz Emission



Tx. Spurious NVNT b 2462MHz Ref

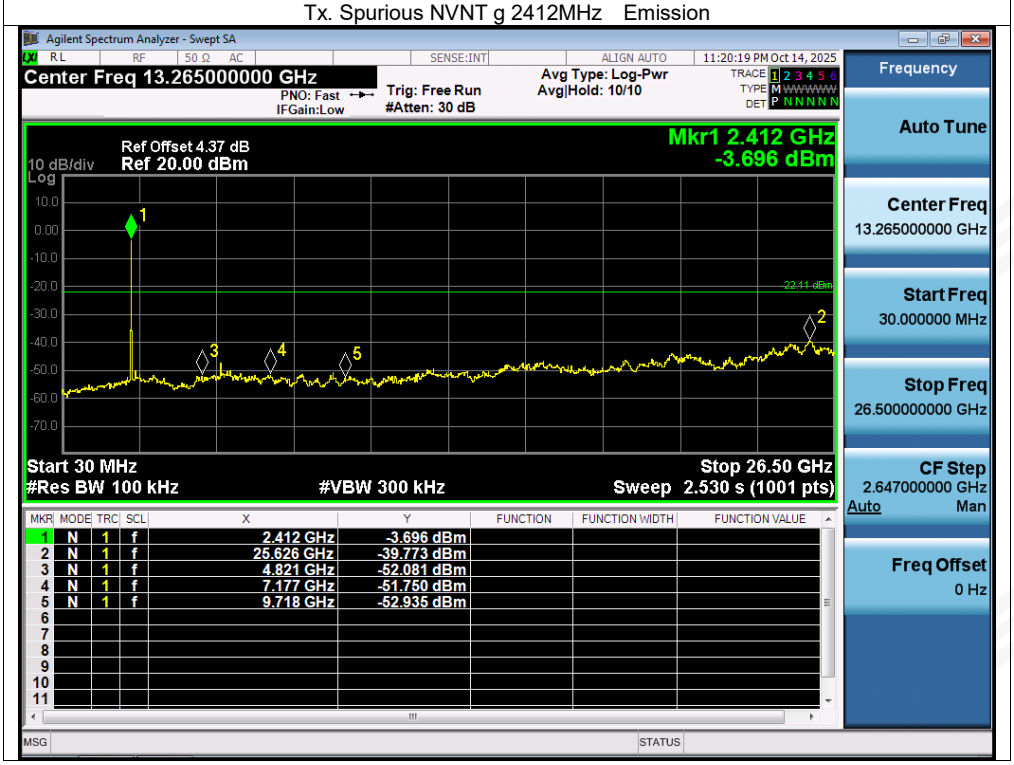


Tx. Spurious NVNT b 2462MHz Emission



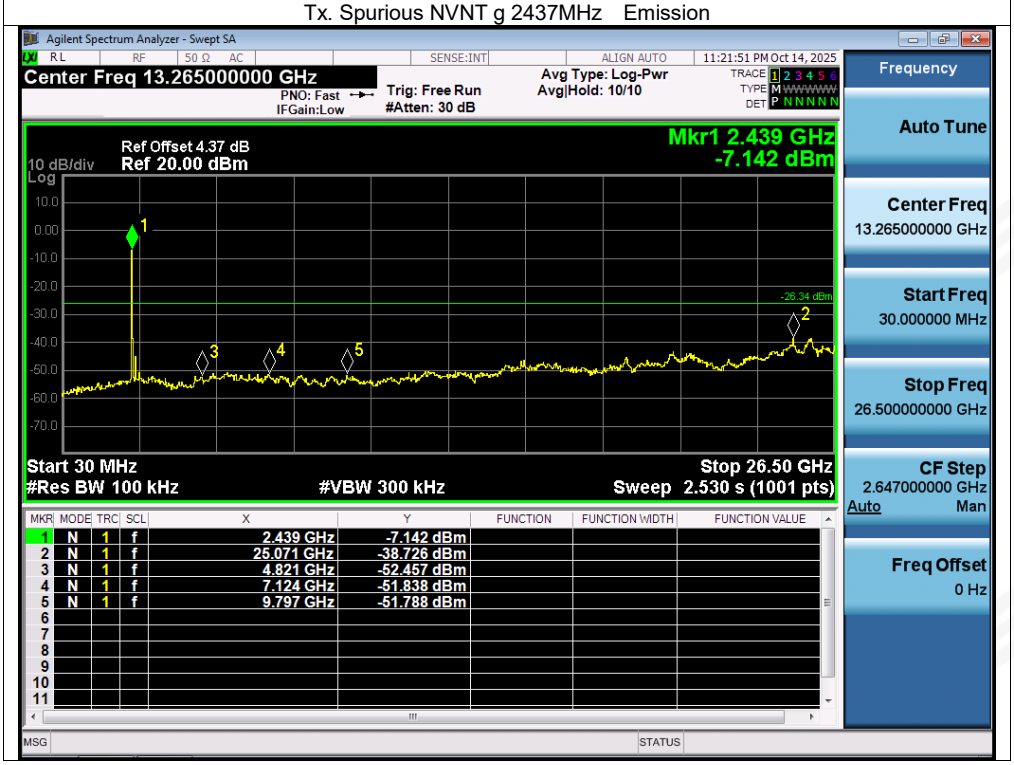
Tx. Spurious NVNT g 2412MHz Ref

Tx. Spurious NVNT g 2412MHz Emission



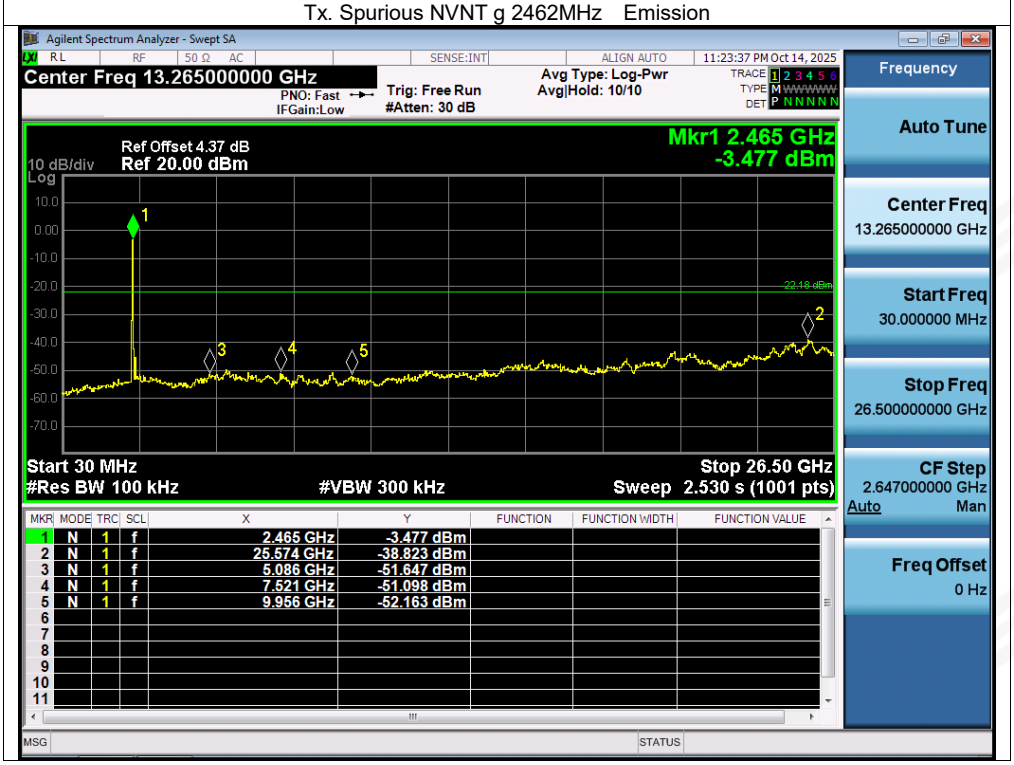
Tx. Spurious NVNT g 2437MHz Ref

Tx. Spurious NVNT g 2437MHz Emission

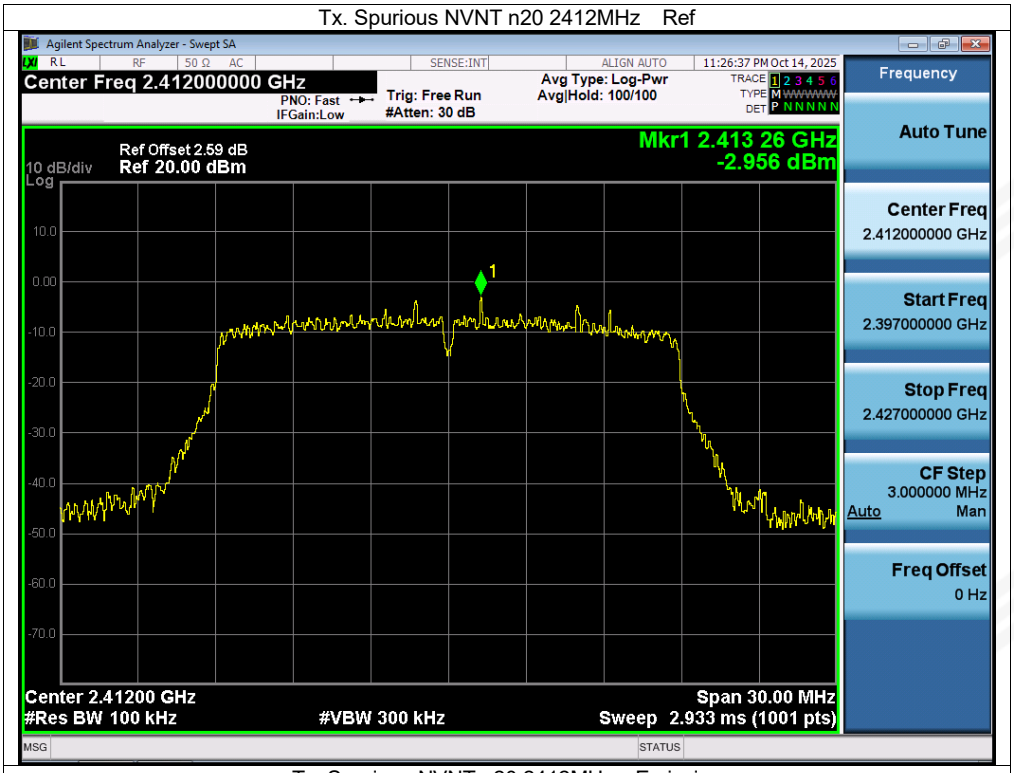


Tx. Spurious NVNT g 2462MHz Ref

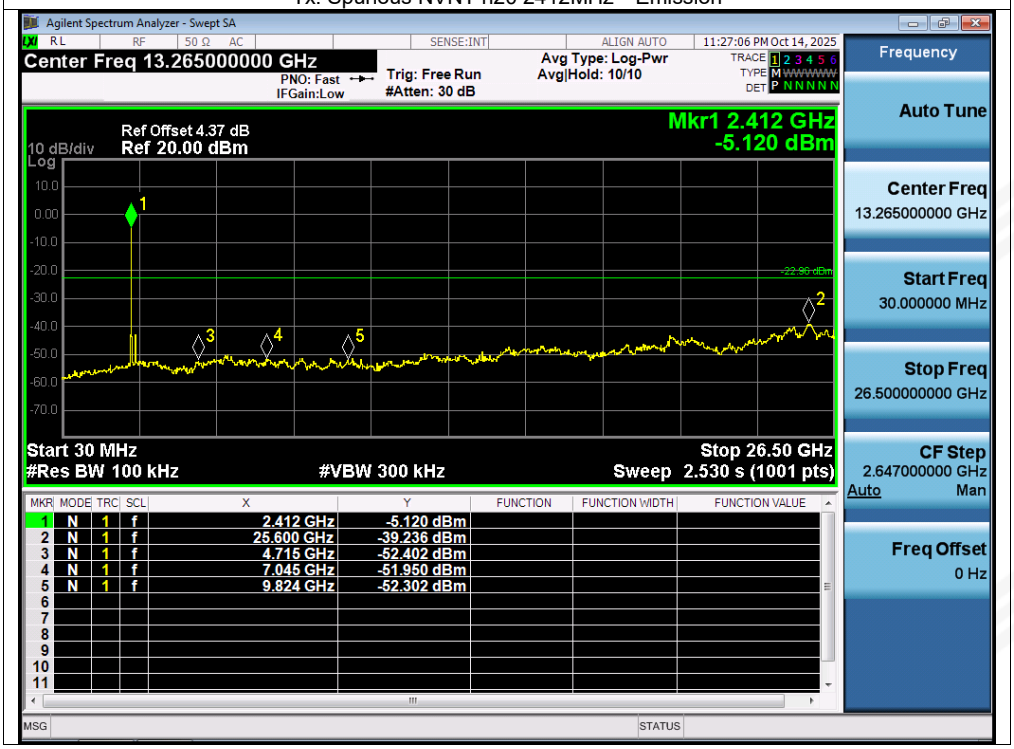
Tx. Spurious NVNT g 2462MHz Emission



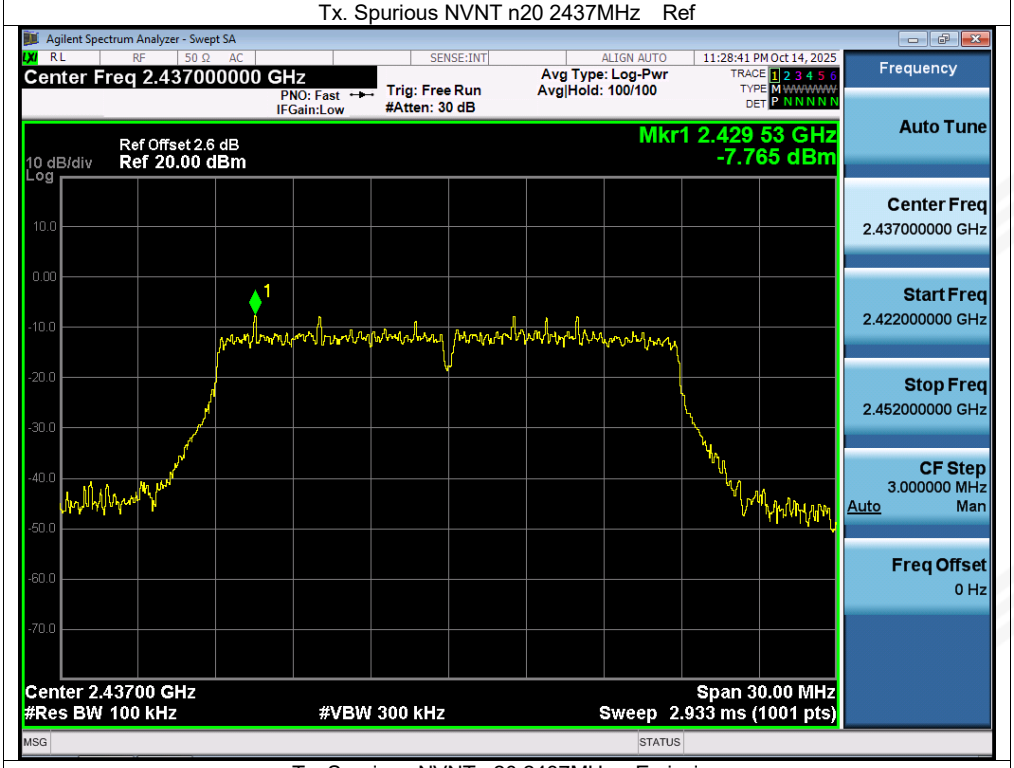
Tx. Spurious NVNT n20 2412MHz Ref



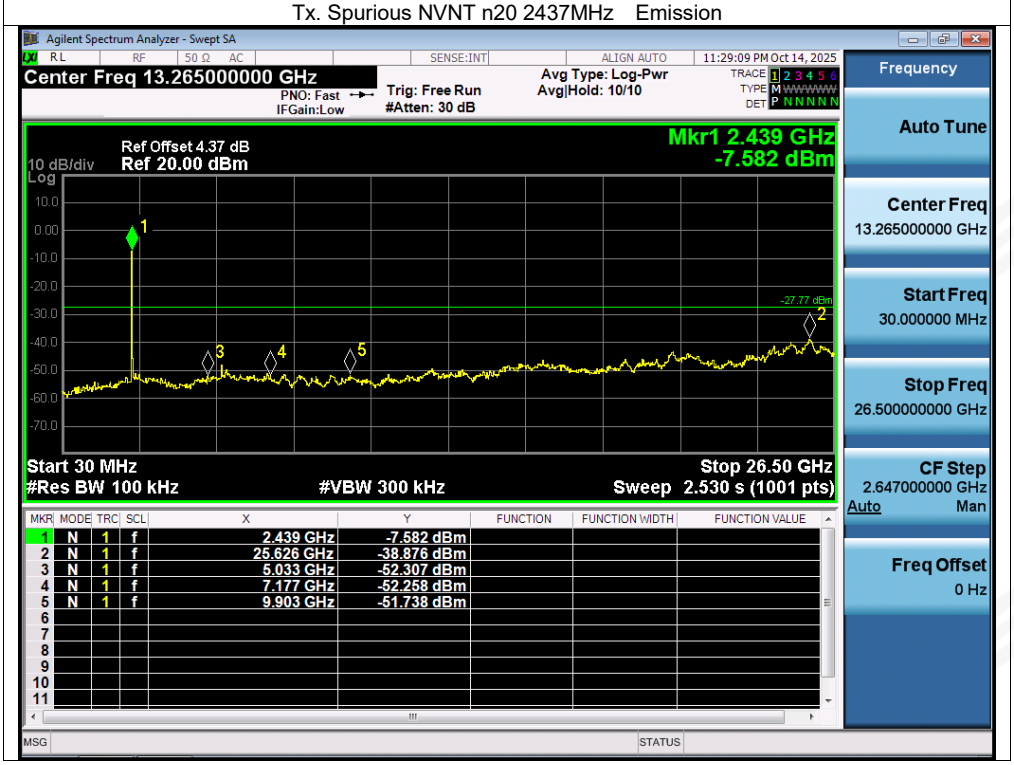
Tx. Spurious NVNT n20 2412MHz Emission



Tx. Spurious NVNT n20 2437MHz Ref

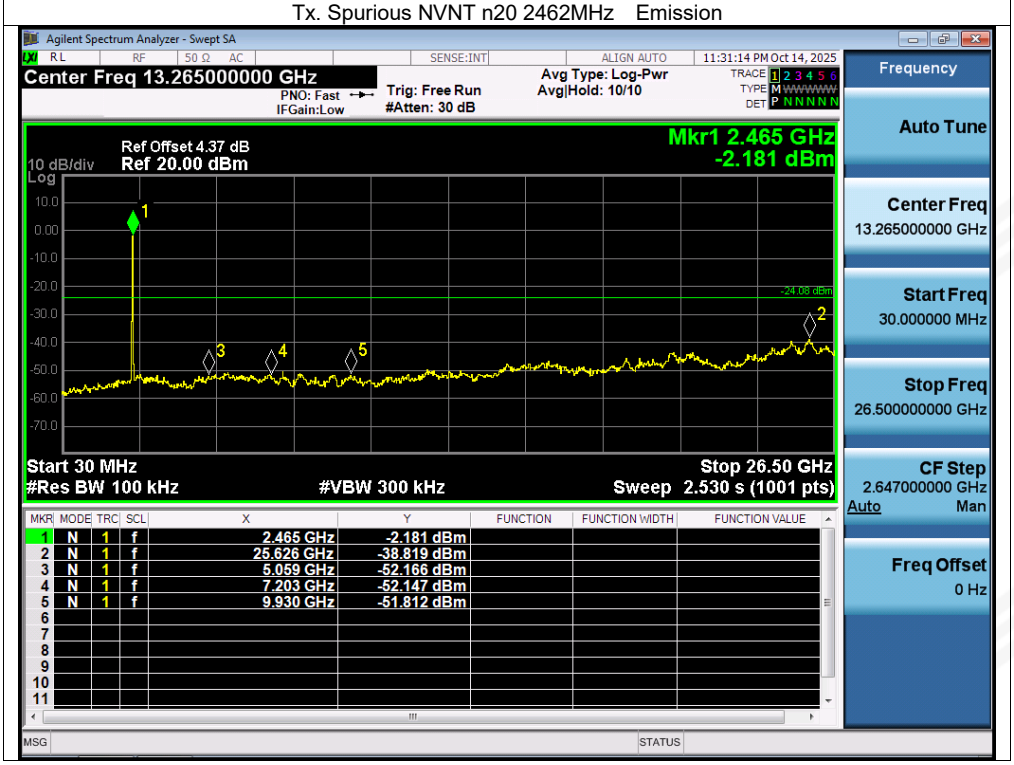


Tx. Spurious NVNT n20 2437MHz Emission



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※※※※※

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