FCC TEST REPORT
FCC ID:2BH62-OBZ20-AC-3P32

Report Number. ..... :	**ZHT-240701017E-1**
Date of Test ..... :	July 01, 2024 to Aug 13, 2024
Date of issue ..... :	Aug 13, 2024
Test Result ..... :	PASS
Testing Laboratory. ..... :	**Guangdong Zhonghan Testing Technology Co., Ltd.**
Address ..... :	Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name ..... :	**Chengdu Dianzhu New Energy Technology Co., Ltd**
Address ..... :	1st Floor, No. 22th, XinMa Road, Wuhou District, ChengDu City, SiChuan Province
Manufacturer's name ..... :	**Chengdu Dianzhu New Energy Technology Co., Ltd**
Address ..... :	1st Floor, No. 22th, XinMa Road, Wuhou District, ChengDu City, SiChuan Province
Test specification:	
Standard ..... :	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Test procedure ..... :	KDB558074 D01 15.247 Meas Guidance v05r02
Non-standard test method ..... :	N/A

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

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Product name ..... :	**EV Charger station**
Trademark ..... :	EVSOW
Model/Type reference ..... :	F-OBZ20-AC-3P32 F-OBZ20-AC-1P32, F-OBZ20-AC-3P16, F-GBZ20-AC-1P32, F-GBZ20-AC-3P16, F-GBZ20-AC-3P32 F-MBZ20-AC-1P32, F-MBZ20-AC-1P40, F-MBZ20-AC-1P50 F-TSZ20-AC-1P32, F-TSZ20-AC-1P40, F-TSZ20-AC-1P50
Model Difference.....:	F-OBZ20-AC-3P32 is tested model, other models are derivative models .The models are identical in circuit, only the model name is different. So the test data of F-OBZ20-AC-3P32 can represent the r emaining models.
Ratings ..... :	Input/Output Voltage: 100-380V, 50/60Hz

Testing procedure and testing location:

Testing Laboratory.....:	**Guangdong Zhonghan Testing Technology Co., Ltd.**
Address.....:	Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Tested by (name + signature).....:	Kevin Yang
Reviewer (name + signature).....:	Baret Wu
Approved (name + signature).....:	Levi Lee

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1. VERSION

Report No.	Version	Description	Approved
ZHT-240701017E-1	Rev.01	Initial issue of report	July 08, 2024

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (b)(4)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1) ” N/A” denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

2.2 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	Conducted Emission Test	±1.38dB
2	RF conducted power	±0.16dB
3	Conducted spurious emissions	±0.21dB
4	All radiated emissions (9k-30MHz)	±4.68dB
5	All radiated emissions (<1G)	±4.68dB
6	All radiated emissions (>1G)	±4.89dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	Occupied Bandwidth	±4.96%

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	EV Charger station
Test Model No.:	F-OBZ20-AC-3P32
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11, /802.11n(HT40):7
Operation Frequency:	802.11b/802.11g /802.11n(HT20): 2412-2462MHz/802.11n(HT40): 2422-2452MHz
Channel separation:	5MHz
Modulation technology:	IEEE 802.11b: DQPSK/DBPSK/DSSS/CCK IEEE 802.11g: QPSK/BPSK/16QAM/64QAM/OFDM IEEE 802.11n: QPSK/BPSK/16QAM/64QAM/OFDM
Antenna Type:	PCB Antenna
Antenna gain:	2.5dBi

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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

Test channel	**Frequency (MHz)**
	802.11b/802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz

Test channel	**Frequency (MHz)**
	802.11n(HT40)
Lowest channel	2422MHz
Middle channel	2437MHz
Highest channel	2452MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

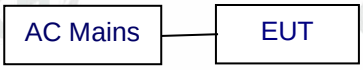
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13.5Mbps

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission

Radiated Emission



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	May 10, 2024	May 09, 2025
2	Loop antenna	EMCI	LAP600	May 10, 2024	May 09, 2025
3	Amplifier	Schwarzbeck	BBV 9743 B	May 10, 2024	May 09, 2025
4	Amplifier	Schwarzbeck	BBV 9718 B	May 10, 2024	May 09, 2025
5	Bilog Antenna	Schwarzbeck	VULB9168	Aug. 04, 2023	Aug. 05, 2024
6	Horn Antenna	Schwarzbeck	BBHA9120D	May 16, 2024	May 15, 2025
7	Horn Antenna	A.H.SYSTEMS	SAS574	May 10, 2024	May 09, 2025
8	Amplifier	AEROFLEX	100KHz-40GHz	May 10, 2024	May 09, 2025
9	Spectrum Analyzer	R&S	FSV40	May 16, 2024	May 15, 2025
10	CDNE	Schwarzbeck	CDNE M2 + CDNE M3	May 10, 2024	May 09, 2025
11	966 Anechoic Chamber	EMToni	9m6m6m	Nov. 25, 2021	Nov. 24, 2024
12	Spectrum Analyzer	KEYSIGHT	N9020A	May 10, 2024	May 09, 2025
13	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	May 10, 2024	May 09, 2025
14	Single Generator	Agilent	N5182A	May 10, 2024	May 09, 2025
15	Power Sensor	MWRFtest	MW100-RFCB	May 10, 2024	May 09, 2025
16	Audio analyzer	R&S	UPL	May 10, 2024	May 09, 2025
17	Single Generator	R&S	SMB100A	May 10, 2024	May 09, 2025
18	Power Amplifier Shielding Room	EMToni	2m3m3m	Nov. 25, 2021	Nov. 24, 2024

Conduction Test equipment

Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Receiver	R&S	ESCI	May 10, 2024	May 09, 2025
LISN	R&S	ENV216	May 10, 2024	May 09, 2025
ISN CAT 6	Schwarzbeck	NTFM 8158	May 10, 2024	May 09, 2025
ISN CAT 5	Schwarzbeck	CAT5 8158	May 10, 2024	May 09, 2025
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	May 10, 2024	May 09, 2025
Current Transformer Clamp	Schwarzbeck	SW 9605	May 10, 2024	May 09, 2025
CE Shielding Room	EMToni	9m4m3m	Nov. 25, 2021	Nov. 24, 2024

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

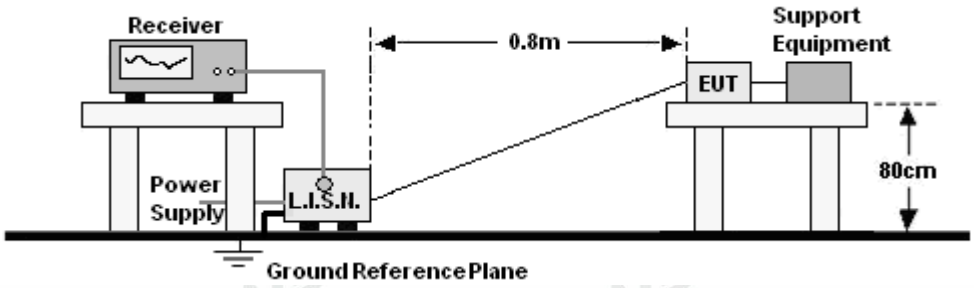
4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
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 at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP

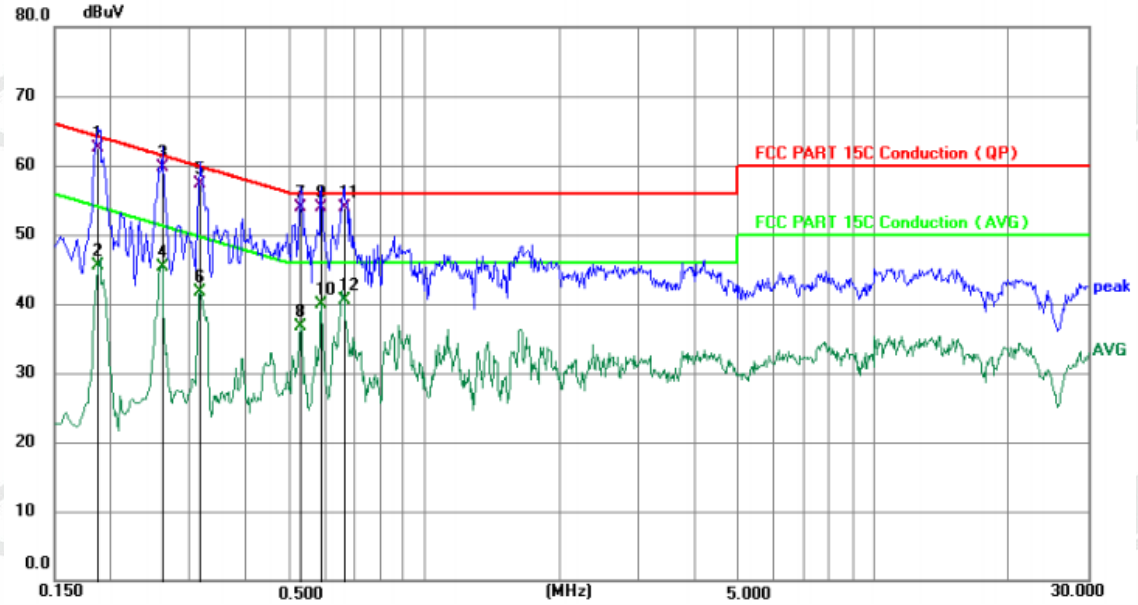


4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 Test result

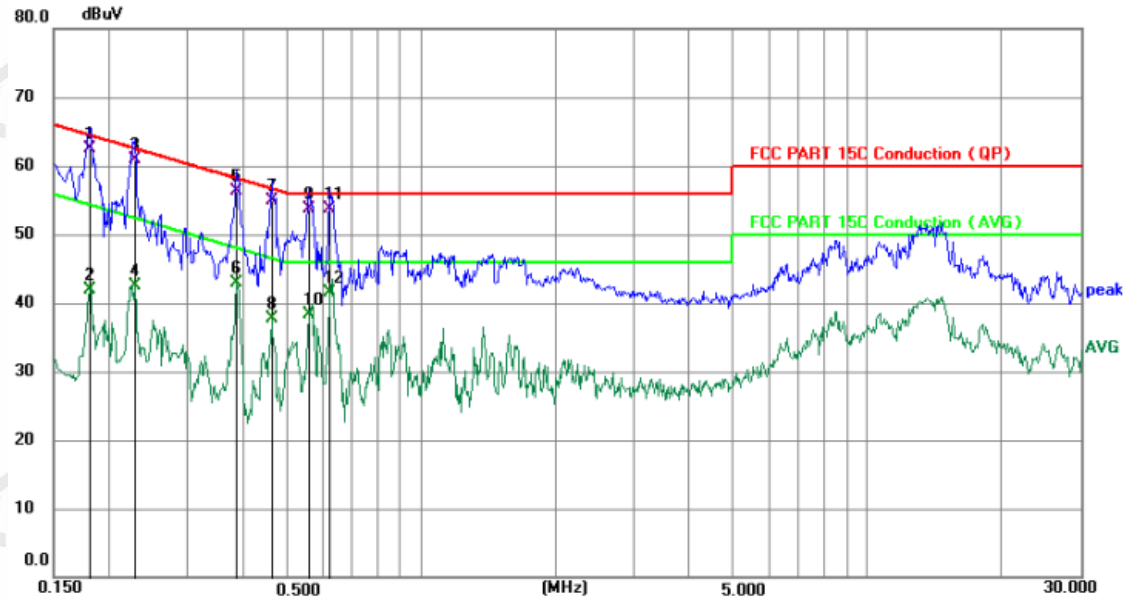
Temperature:	24.3℃	Relative Humidity :	50%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.1872	52.55	9.90	62.45	64.16	-1.71	QP
2	0.1872	35.53	9.90	45.43	54.16	-8.73	AVG
3	0.2600	49.79	9.93	59.72	61.43	-1.71	QP
4	0.2600	35.30	9.93	45.23	51.43	-6.20	AVG
5	0.3165	47.44	9.96	57.40	59.80	-2.40	QP
6	0.3165	31.83	9.96	41.79	49.80	-8.01	AVG
7	0.5280	43.89	10.02	53.91	56.00	-2.09	QP
8	0.5280	26.71	10.02	36.73	46.00	-9.27	AVG
9	0.5885	43.90	10.03	53.93	56.00	-2.07	QP
10	0.5885	29.94	10.03	39.97	46.00	-6.03	AVG
11	0.6630	43.80	10.03	53.83	56.00	-2.17	QP
12	0.6630	30.57	10.03	40.60	46.00	-5.40	AVG

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor
4.The test data shows only the worst case Low Channel:2402MHz.

Temperature:	24.3℃	Relative Humidity :	50%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1804	52.56	9.90	62.46	64.47	-2.01	QP
2	0.1804	32.02	9.90	41.92	54.47	-12.55	AVG
3 *	0.2280	50.99	9.92	60.91	62.52	-1.61	QP
4	0.2280	32.68	9.92	42.60	52.52	-9.92	AVG
5	0.3840	46.32	9.98	56.30	58.19	-1.89	QP
6	0.3840	32.99	9.98	42.97	48.19	-5.22	AVG
7	0.4605	44.94	10.01	54.95	56.68	-1.73	QP
8	0.4605	27.65	10.01	37.66	46.68	-9.02	AVG
9	0.5594	43.71	10.02	53.73	56.00	-2.27	QP
10	0.5594	28.35	10.02	38.37	46.00	-7.63	AVG
11	0.6225	43.76	10.03	53.79	56.00	-2.21	QP
12	0.6225	31.49	10.03	41.52	46.00	-4.48	AVG

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor
4.The test data shows only the worst case Low Channel:2402MHz.

4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

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

FREQUENCY (MHz)	Limit (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).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoiccamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of avariable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

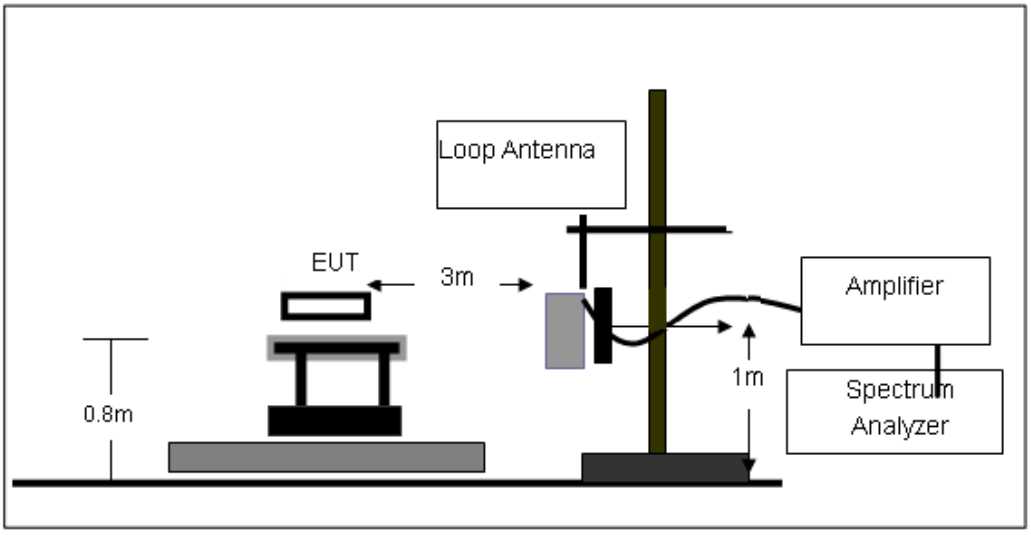
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

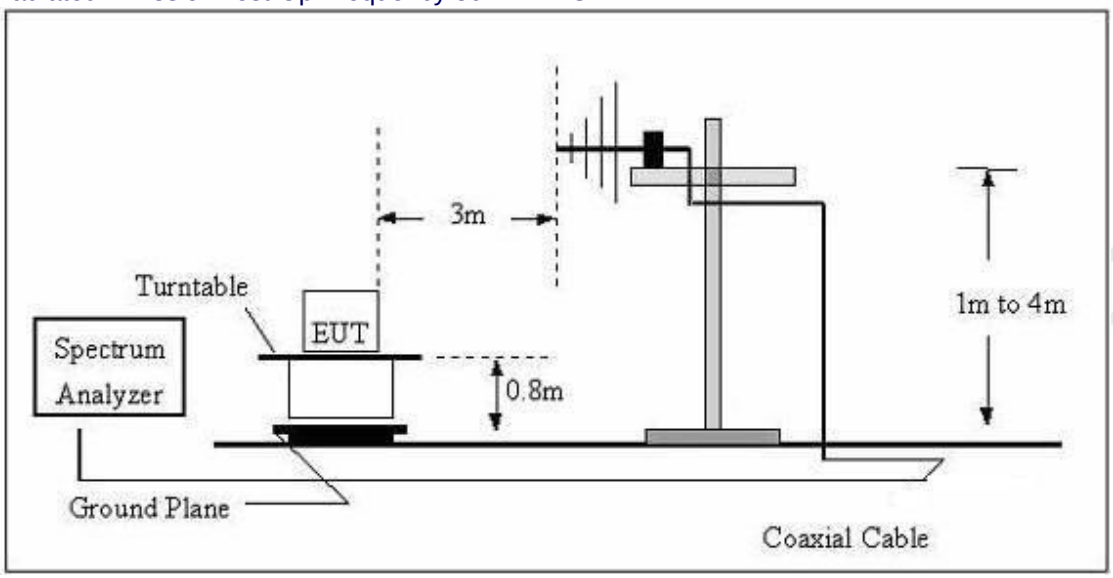
No deviation

4.2.4 TEST SETUP

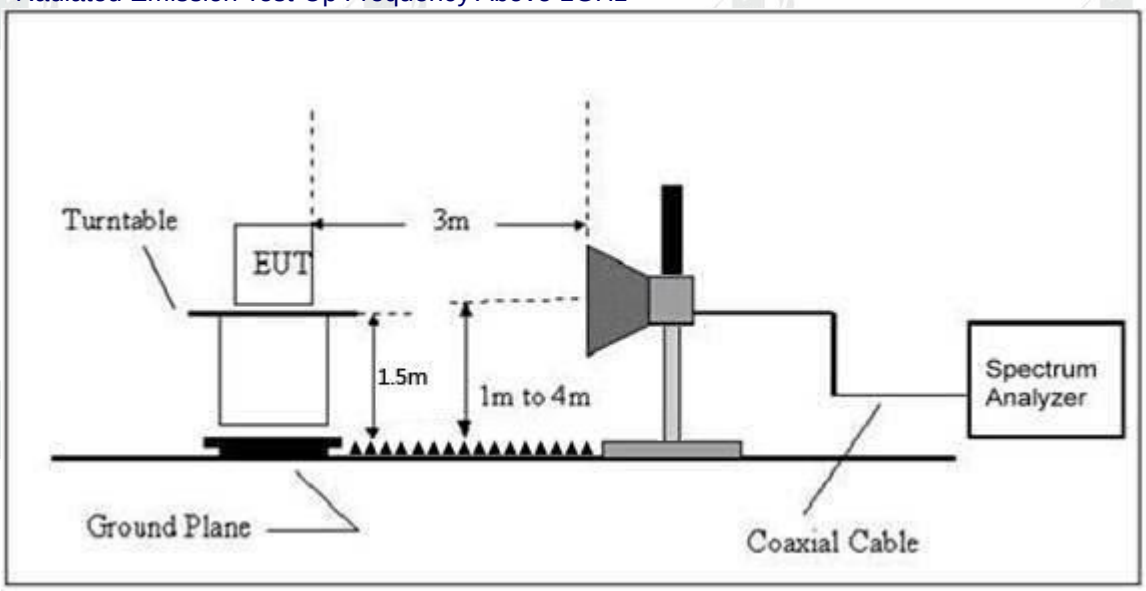
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

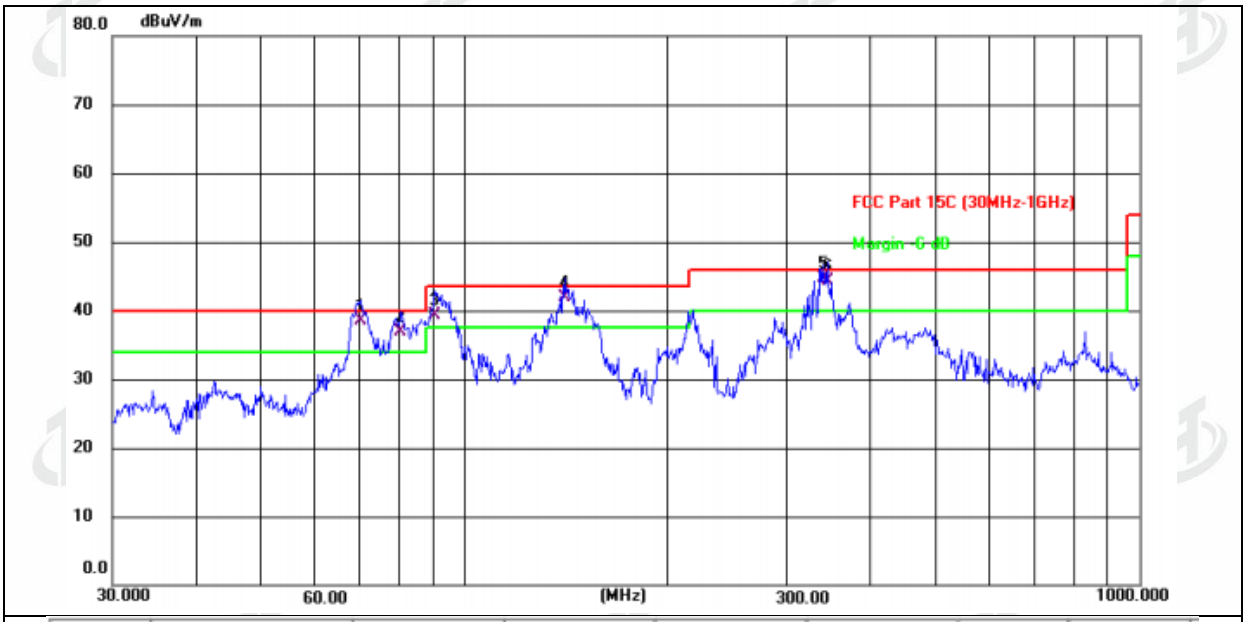
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

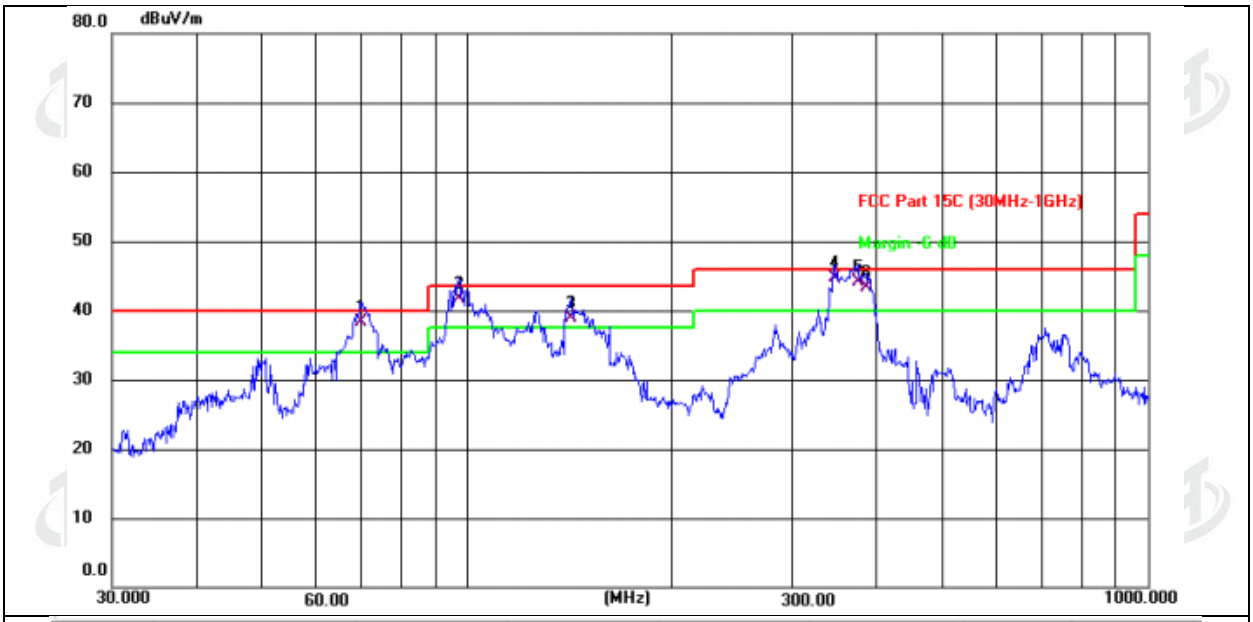
Between 30MHz – 1GHz

Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	70.0901	51.52	-13.04	38.48	40.00	-1.52	QP
2 !	80.3617	51.47	-14.55	36.92	40.00	-3.08	QP
3 !	90.2202	51.71	-12.49	39.22	43.50	-4.28	QP
4 !	140.8350	55.54	-13.69	41.85	43.50	-1.65	QP
5 *	339.5887	51.80	-7.14	44.66	46.00	-1.34	QP
6 !	344.3854	51.35	-7.03	44.32	46.00	-1.68	QP

Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	69.6003	51.25	-12.91	38.34	40.00	-1.66	QP
2 !	97.1148	53.05	-11.39	41.66	43.50	-1.84	QP
3 !	141.8262	52.63	-13.73	38.90	43.50	-4.60	QP
4 *	346.8091	51.62	-6.97	44.65	46.00	-1.35	QP
5 !	374.6225	50.47	-6.34	44.13	46.00	-1.87	QP
6 !	385.2803	49.30	-6.09	43.21	46.00	-2.79	QP

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case 802.11b mode (Low Channel:2412MHz).

1GHz~25GHz

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11b									
Low Channel:2412MHz									
V	4824.00	55.5	30.55	5.77	24.66	55.38	74	-18.62	PK
V	4824.00	42.31	30.55	5.77	24.66	42.19	54	-11.81	AV
H	4824.00	55.39	30.33	6.32	24.55	55.93	74	-18.07	PK
H	4824.00	42.87	30.33	6.32	24.55	43.41	54	-10.59	AV
Middle Channel:2437MHz									
V	4874.00	55.4	30.55	5.77	24.66	55.28	74	-18.72	PK
V	4874.00	41.5	30.55	5.77	24.66	41.38	54	-12.62	AV
H	4874.00	58.98	30.33	6.32	24.55	59.52	74	-14.48	PK
H	4874.00	43.17	30.33	6.32	24.55	43.71	54	-10.29	AV
High Channel:2462MHz									
V	4924.00	59.82	30.55	5.77	24.66	59.7	74	-14.3	PK
V	4924.00	41.38	30.55	5.77	24.66	41.26	54	-12.74	AV
H	4924.00	58.05	30.33	6.32	24.55	58.59	74	-15.41	PK
H	4924.00	41.67	30.33	6.32	24.55	42.21	54	-11.79	AV
802.11g									
Low Channel:2412MHz									
V	4824.00	58.96	30.55	5.77	24.66	58.84	74	-15.16	PK
V	4824.00	41.62	30.55	5.77	24.66	41.5	54	-12.5	AV
H	4824.00	56.66	30.33	6.32	24.55	57.2	74	-16.8	PK
H	4824.00	41.31	30.33	6.32	24.55	41.85	54	-12.15	AV
Middle Channel:2437MHz									
V	4874.00	56.37	30.55	5.77	24.66	56.25	74	-17.75	PK
V	4874.00	41	30.55	5.77	24.66	40.88	54	-13.12	AV
H	4874.00	58.98	30.33	6.32	24.55	59.52	74	-14.48	PK
H	4874.00	42.39	30.33	6.32	24.55	42.93	54	-11.07	AV
High Channel:2462MHz									
V	4924.00	59.45	30.55	5.77	24.66	59.33	74	-14.67	PK
V	4924.00	44.15	30.55	5.77	24.66	44.03	54	-9.97	AV
H	4924.00	58.81	30.33	6.32	24.55	59.35	74	-14.65	PK
H	4924.00	42.96	30.33	6.32	24.55	43.5	54	-10.5	AV
802.11n 20									
Low Channel:2412MHz									
V	4824.00	58.04	30.55	5.77	24.66	57.92	74	-16.08	PK
V	4824.00	41.1	30.55	5.77	24.66	40.98	54	-13.02	AV
H	4824.00	59.77	30.33	6.32	24.55	60.31	74	-13.69	PK
H	4824.00	44.63	30.33	6.32	24.55	45.17	54	-8.83	AV
Middle Channel:2437MHz									
V	4874.00	56.62	30.55	5.77	24.66	56.5	74	-17.5	PK
V	4874.00	43.84	30.55	5.77	24.66	43.72	54	-10.28	AV
H	4874.00	59.14	30.33	6.32	24.55	59.68	74	-14.32	PK
H	4874.00	42.1	30.33	6.32	24.55	42.64	54	-11.36	AV
High Channel:2462MHz									
V	4924.00	55.89	30.55	5.77	24.66	55.77	74	-18.23	PK
V	4924.00	41.37	30.55	5.77	24.66	41.25	54	-12.75	AV
H	4924.00	56.91	30.33	6.32	24.55	57.45	74	-16.55	PK
H	4924.00	44.74	30.33	6.32	24.55	45.28	54	-8.72	AV
802.11n 40									
Low Channel:2422MHz									
V	4844.00	59.51	30.55	5.77	24.66	59.39	74	-14.61	PK

V	4924.00	41.39	30.55	5.77	24.66	41.27	54	-12.73	AV
H	4924.00	59.67	30.33	6.32	24.55	60.21	74	-13.79	PK
H	4924.00	41.21	30.33	6.32	24.55	41.75	54	-12.25	AV
Middle Channel:2437MHz									
V	4874.00	59.16	30.55	5.77	24.66	59.04	74	-14.96	PK
V	4874.00	41.67	30.55	5.77	24.66	41.55	54	-12.45	AV
H	4874.00	59.36	30.33	6.32	24.55	59.9	74	-14.1	PK
H	4874.00	41.2	30.33	6.32	24.55	41.74	54	-12.26	AV
High Channel:2452MHz									
V	4904.00	59.2	30.55	5.77	24.66	59.08	74	-14.92	PK
V	4904.00	44.7	30.55	5.77	24.66	44.58	54	-9.42	AV
H	4904.00	56.07	30.33	6.32	24.55	56.61	74	-17.39	PK
H	4904.00	42.57	30.33	6.32	24.55	43.11	54	-10.89	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
4.For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

5. RADIATED BAND EMISSIONMEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
Above 1GHz	Peak	1MHz	3MHz	Peak
	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (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).

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reportedin a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

Note:

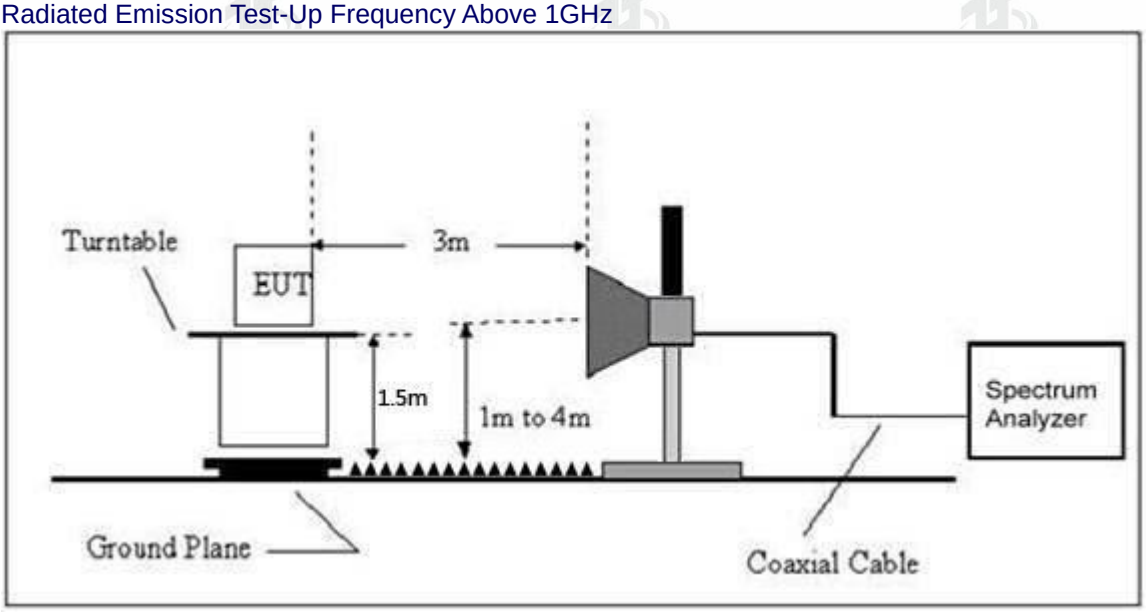
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
802.11b	Low Channel 2412MHz										
	H	2390.00	62.77	30.22	4.85	23.98	61.38	74.00	-12.62	PK	PASS
	H	2390.00	46.35	30.22	4.85	23.98	44.96	54.00	-9.04	AV	PASS
	H	2400.00	60.88	30.22	4.85	23.98	59.49	74.00	-14.51	PK	PASS
	H	2400.00	46.44	30.22	4.85	23.98	45.05	54.00	-8.95	AV	PASS
	V	2390.00	61.03	30.22	4.85	23.98	59.64	74.00	-14.36	PK	PASS
	V	2390.00	46.83	30.22	4.85	23.98	45.44	54.00	-8.56	AV	PASS
	V	2400.00	61.51	30.22	4.85	23.98	60.12	74.00	-13.88	PK	PASS
	V	2400.00	46.00	30.22	4.85	23.98	44.61	54.00	-9.39	AV	PASS
	High Channel 2462MHz										
	H	2483.50	62.32	30.22	4.85	23.98	60.93	74.00	-13.07	PK	PASS
	H	2483.50	48.58	30.22	4.85	23.98	47.19	54.00	-6.81	AV	PASS
	H	2500.00	61.34	30.22	4.85	23.98	59.95	74.00	-14.05	PK	PASS
	H	2500.00	48.53	30.22	4.85	23.98	47.14	54.00	-6.86	AV	PASS
	V	2483.50	60.97	30.22	4.85	23.98	59.58	74.00	-14.42	PK	PASS
	V	2483.50	48.18	30.22	4.85	23.98	46.79	54.00	-7.21	AV	PASS
	V	2500.00	61.50	30.22	4.85	23.98	60.11	74.00	-13.89	PK	PASS
	V	2500.00	48.26	30.22	4.85	23.98	46.87	54.00	-7.13	AV	PASS
802.11g	Low Channel 2412MHz										
	H	2390.00	60.33	30.22	4.85	23.98	58.94	74.00	-15.06	PK	PASS
	H	2390.00	48.52	30.22	4.85	23.98	47.13	54.00	-6.87	AV	PASS
	H	2400.00	62.38	30.22	4.85	23.98	60.99	74.00	-13.01	PK	PASS
	H	2400.00	47.69	30.22	4.85	23.98	46.30	54.00	-7.70	AV	PASS
	V	2390.00	62.97	30.22	4.85	23.98	61.58	74.00	-12.42	PK	PASS
	V	2390.00	46.68	30.22	4.85	23.98	45.29	54.00	-8.71	AV	PASS
	V	2400.00	60.52	30.22	4.85	23.98	59.13	74.00	-14.87	PK	PASS
	V	2400.00	48.21	30.22	4.85	23.98	46.82	54.00	-7.18	AV	PASS
	High Channel 2462MHz										
	H	2483.50	61.87	30.22	4.85	23.98	60.48	74.00	-13.52	PK	PASS
	H	2483.50	48.47	30.22	4.85	23.98	47.08	54.00	-6.92	AV	PASS
	H	2500.00	59.21	30.22	4.85	23.98	57.82	74.00	-16.18	PK	PASS
	H	2500.00	46.54	30.22	4.85	23.98	45.15	54.00	-8.85	AV	PASS
	V	2483.50	59.81	30.22	4.85	23.98	58.42	74.00	-15.58	PK	PASS
	V	2483.50	47.97	30.22	4.85	23.98	46.58	54.00	-7.42	AV	PASS
	V	2500.00	59.14	30.22	4.85	23.98	57.75	74.00	-16.25	PK	PASS
	V	2500.00	47.88	30.22	4.85	23.98	46.49	54.00	-7.51	AV	PASS
802.11n20	Low Channel 2412MHz										
	H	2390.00	62.73	30.22	4.85	23.98	61.34	74.00	-12.66	PK	PASS
	H	2390.00	46.57	30.22	4.85	23.98	45.18	54.00	-8.82	AV	PASS
	H	2400.00	59.21	30.22	4.85	23.98	57.82	74.00	-16.18	PK	PASS
	H	2400.00	48.19	30.22	4.85	23.98	46.80	54.00	-7.20	AV	PASS
	V	2390.00	62.15	30.22	4.85	23.98	60.76	74.00	-13.24	PK	PASS
	V	2390.00	46.35	30.22	4.85	23.98	44.96	54.00	-9.04	AV	PASS
	V	2400.00	63.00	30.22	4.85	23.98	61.61	74.00	-12.39	PK	PASS
	V	2400.00	46.42	30.22	4.85	23.98	45.03	54.00	-8.97	AV	PASS
	High Channel 2462MHz										
	H	2483.50	61.57	30.22	4.85	23.98	60.18	74.00	-13.82	PK	PASS
	H	2483.50	47.00	30.22	4.85	23.98	45.61	54.00	-8.39	AV	PASS
	H	2500.00	62.58	30.22	4.85	23.98	61.19	74.00	-12.81	PK	PASS
	H	2500.00	48.53	30.22	4.85	23.98	47.14	54.00	-6.86	AV	PASS
	V	2483.50	60.01	30.22	4.85	23.98	58.62	74.00	-15.38	PK	PASS

	V	2483.50	46.44	30.22	4.85	23.98	45.05	54.00	-8.95	AV	PASS
	V	2500.00	60.01	30.22	4.85	23.98	58.62	74.00	-15.38	PK	PASS
	V	2500.00	46.13	30.22	4.85	23.98	44.74	54.00	-9.26	AV	PASS
802.11n 40	Low Channel 2422MHz										
	H	2390.00	62.95	30.22	4.85	23.98	61.56	74.00	-12.44	PK	PASS
	H	2390.00	48.04	30.22	4.85	23.98	46.65	54.00	-7.35	AV	PASS
	H	2400.00	59.25	30.22	4.85	23.98	57.86	74.00	-16.14	PK	PASS
	H	2400.00	48.98	30.22	4.85	23.98	47.59	54.00	-6.41	AV	PASS
	V	2390.00	59.64	30.22	4.85	23.98	58.25	74.00	-15.75	PK	PASS
	V	2390.00	46.26	30.22	4.85	23.98	44.87	54.00	-9.13	AV	PASS
	V	2400.00	60.34	30.22	4.85	23.98	58.95	74.00	-15.05	PK	PASS
	V	2400.00	46.85	30.22	4.85	23.98	45.46	54.00	-8.54	AV	PASS
	High Channel 2452MHz										
	H	2483.50	59.87	30.22	4.85	23.98	58.48	74.00	-15.52	PK	PASS
	H	2483.50	48.94	30.22	4.85	23.98	47.55	54.00	-6.45	AV	PASS
	H	2500.00	60.34	30.22	4.85	23.98	58.95	74.00	-15.05	PK	PASS
	H	2500.00	48.57	30.22	4.85	23.98	47.18	54.00	-6.82	AV	PASS
	V	2483.50	59.33	30.22	4.85	23.98	57.94	74.00	-16.06	PK	PASS
	V	2483.50	47.89	30.22	4.85	23.98	46.50	54.00	-7.50	AV	PASS
	V	2500.00	60.02	30.22	4.85	23.98	58.63	74.00	-15.37	PK	PASS
	V	2500.00	46.75	30.22	4.85	23.98	45.36	54.00	-8.64	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

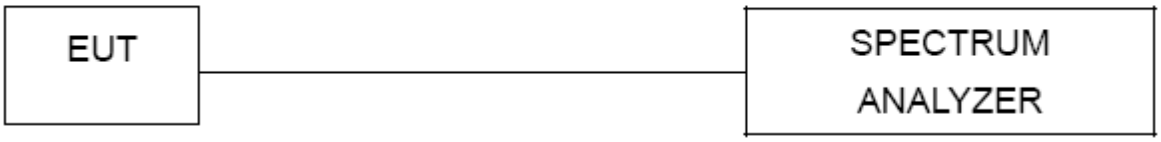
6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 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 within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

Temperature：	25.9℃	Relative Humidity：	52%
Pressure：	101kPa	Test Voltage ：	AC 120V

Please refer to APPENDIX A

7. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

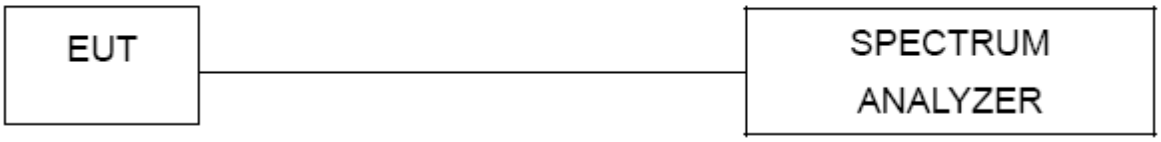
7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 xRBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULT

Temperature :	25.8℃	Relative Humidity :	52%
Pressure :	101kPa	Test Voltage :	AC 120V
Test Mode :	TX Mode		

Please refer to APPENDIX A

8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

8.1 APPLIED PROCEDURES/LIMIT

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

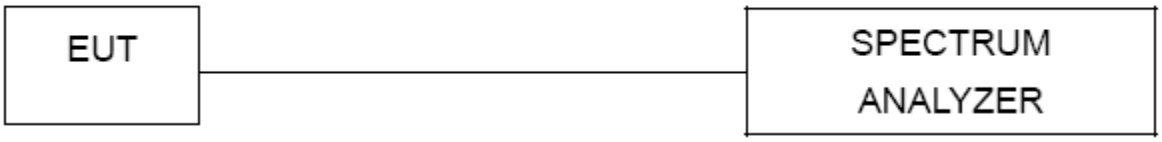
8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Analyzer

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULT

Temperature：	25.3℃	Relative Humidity：	55%
Pressure：	101kPa	Test Voltage ：	AC 120V

Please refer to APPENDIX A

9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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, In addition, radiated emissions which fall in the restricted bands, as defined in§15.205(a), must also comply with the radiated emission limits specified in15.209(a).

9.2 TEST PROCEDURE

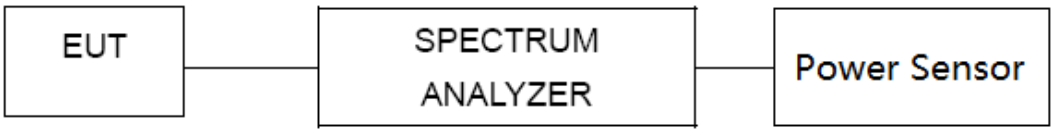
Using the following spectrum analyzer setting:

A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

Please refer to APPENDIX A

10. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is PCB Antenna, the best case gain of the antenna is 2.5dBi, reference to the appendix II for details	

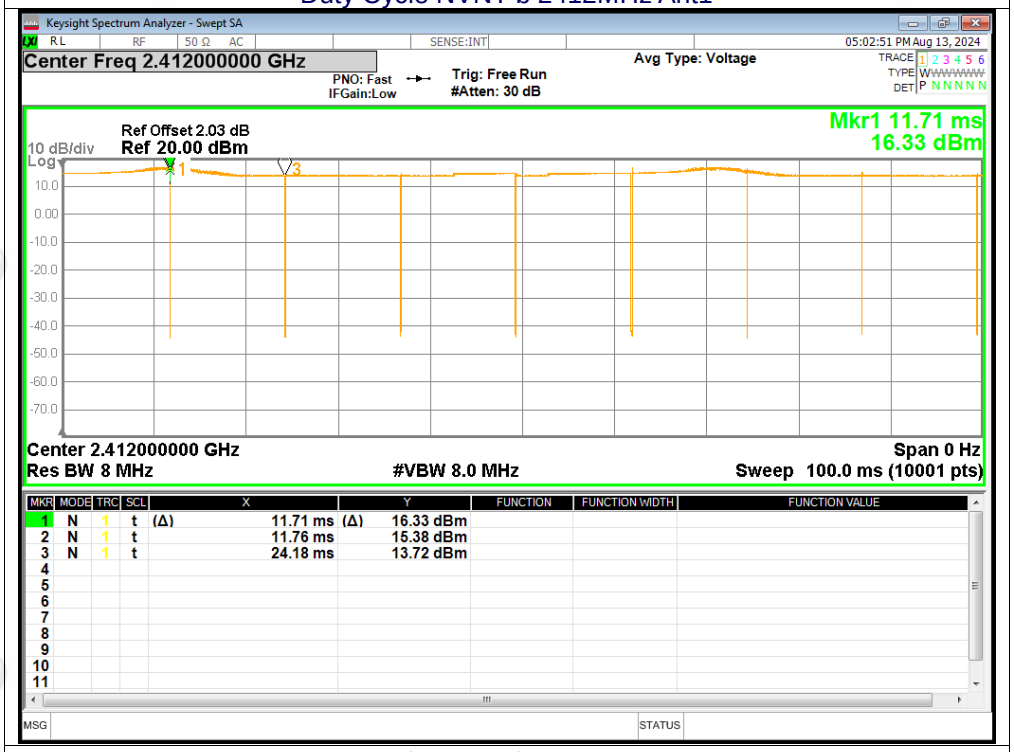
11. APPENDIX A

11.1 DUTY CYCLE

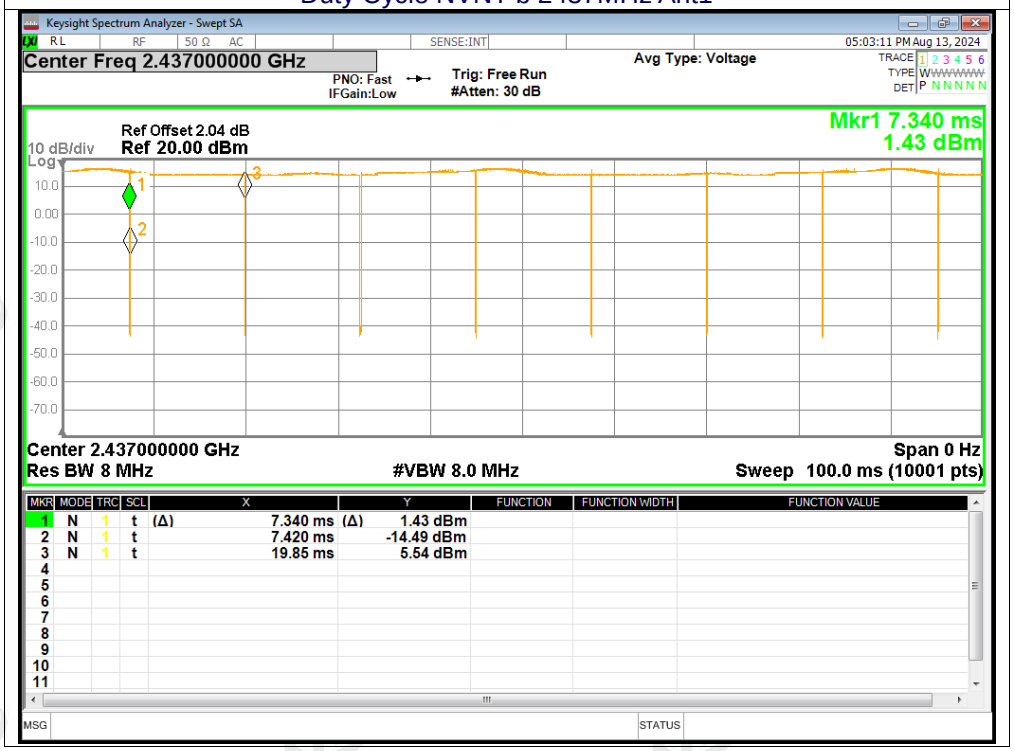
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	99.6	0	0.08
b	2437	99.36	0	0.08
b	2462	99.28	0	0.08
g	2412	97.64	0.1	0.48
g	2437	93.21	0.31	0.49
g	2462	92.83	0.32	0.48
n20	2412	96.5	0.15	0.52
n20	2437	92.34	0.35	0.52
n20	2462	96.48	0.16	0.52
n40	2422	87.85	0.56	1.06
n40	2437	89.62	0.48	1.05
n40	2452	89.52	0.48	1.06

Test Graphs

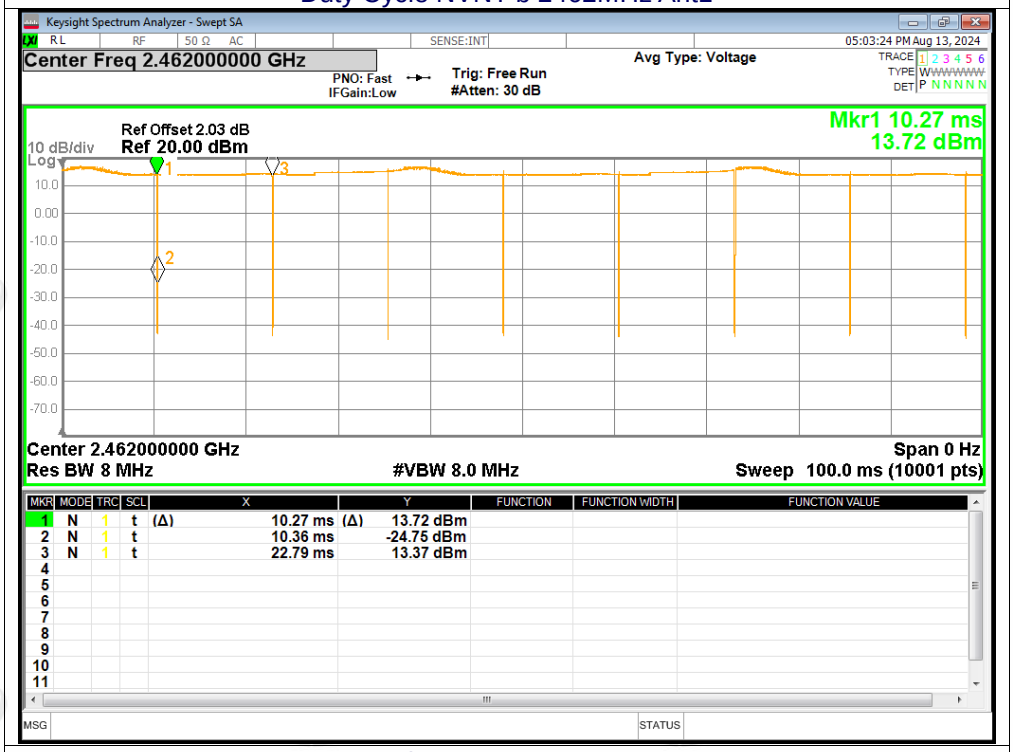
Duty Cycle NVNT b 2412MHz Ant1



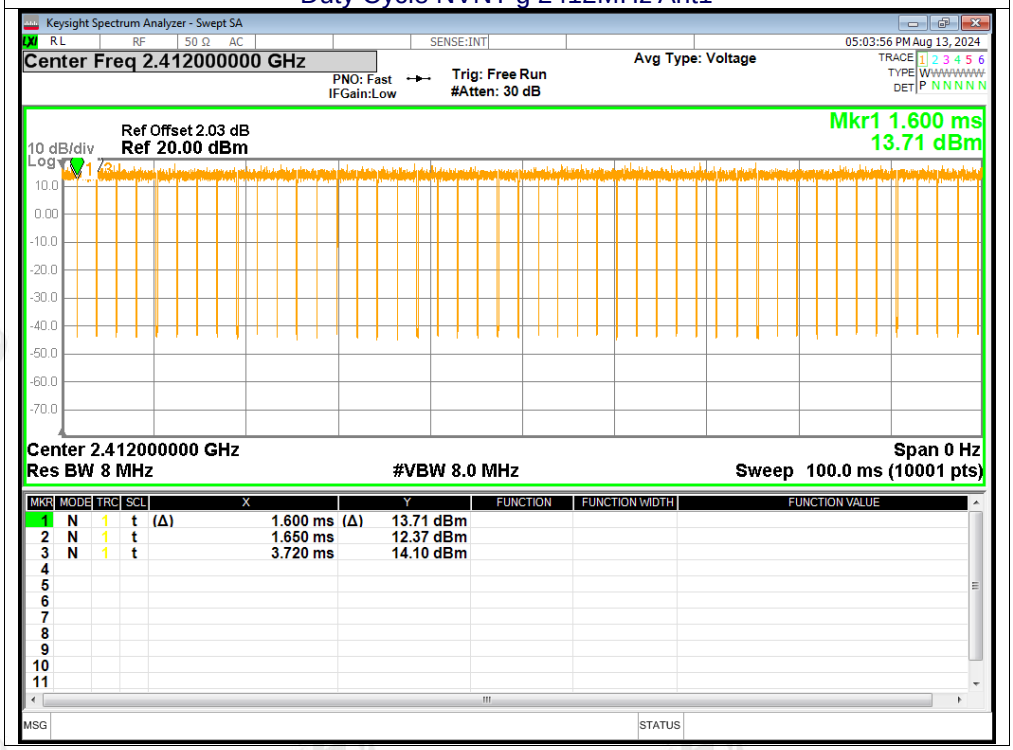
Duty Cycle NVNT b 2437MHz Ant1



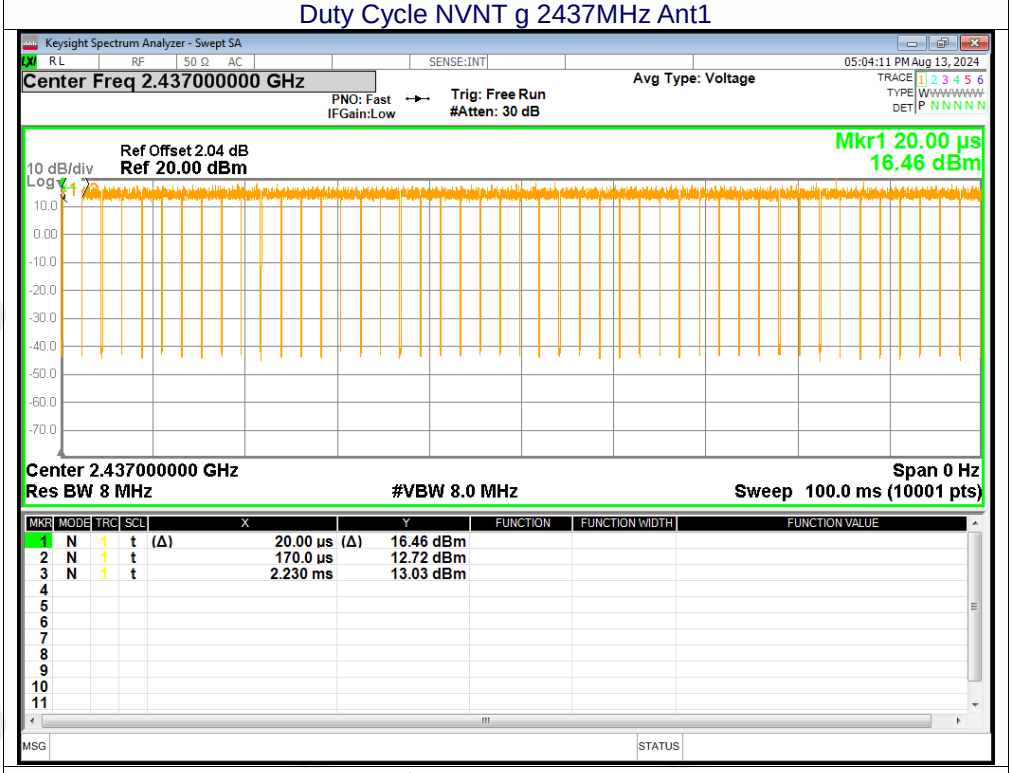
Duty Cycle NVNT b 2462MHz Ant1



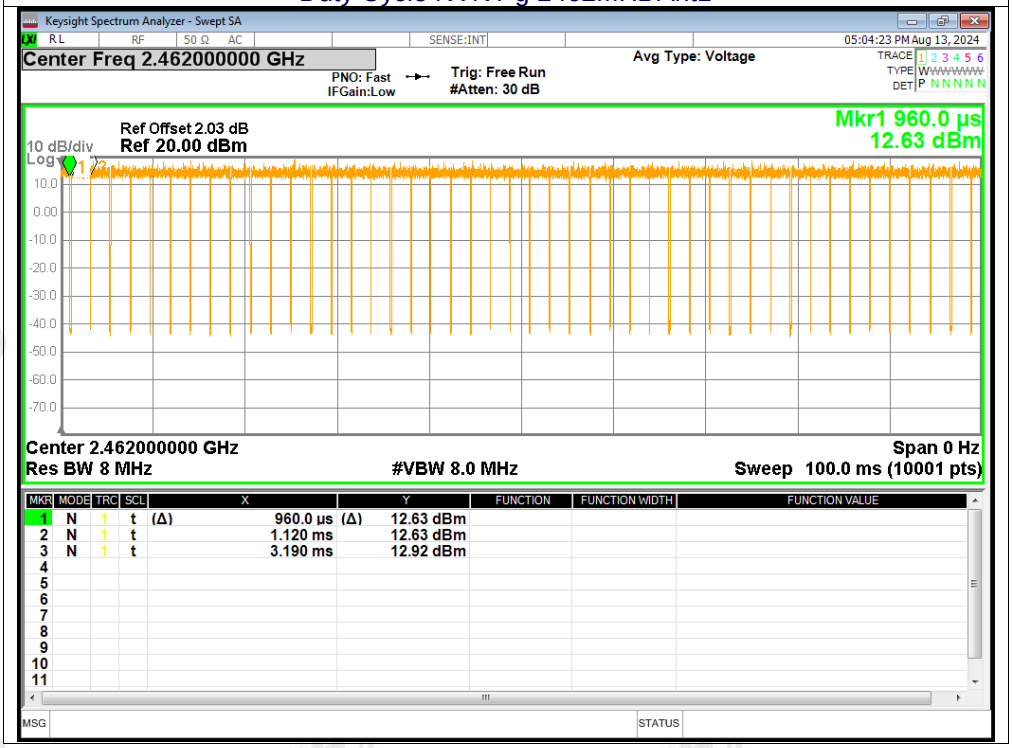
Duty Cycle NVNT g 2412MHz Ant1



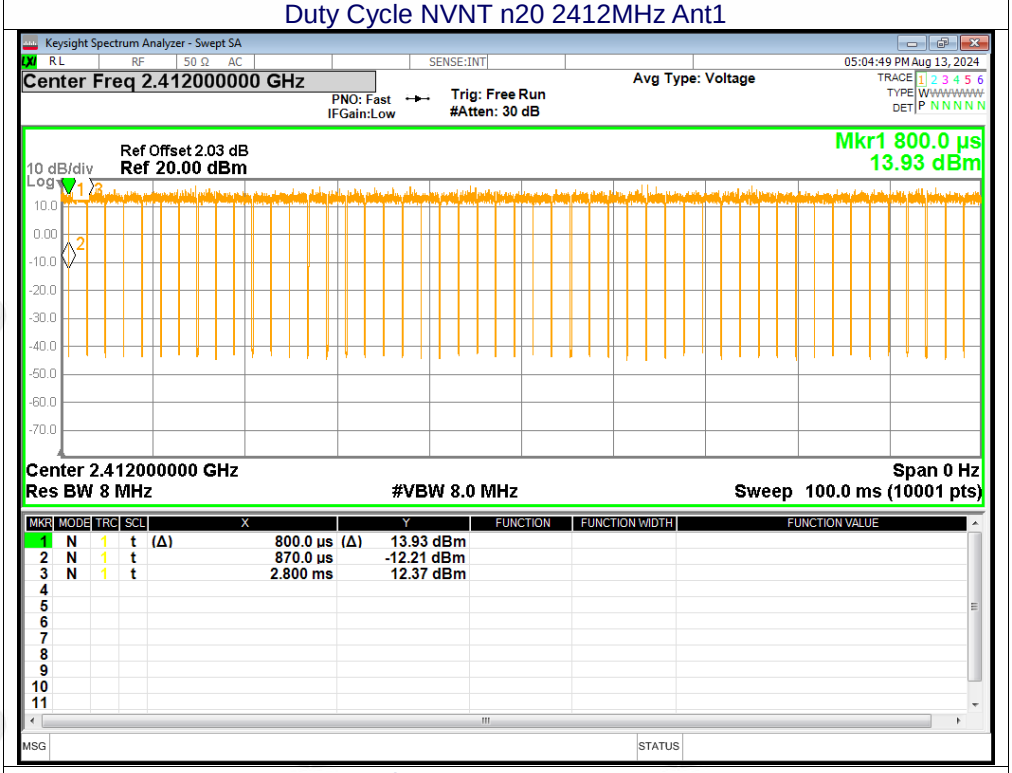
Duty Cycle NVNT g 2437MHz Ant1



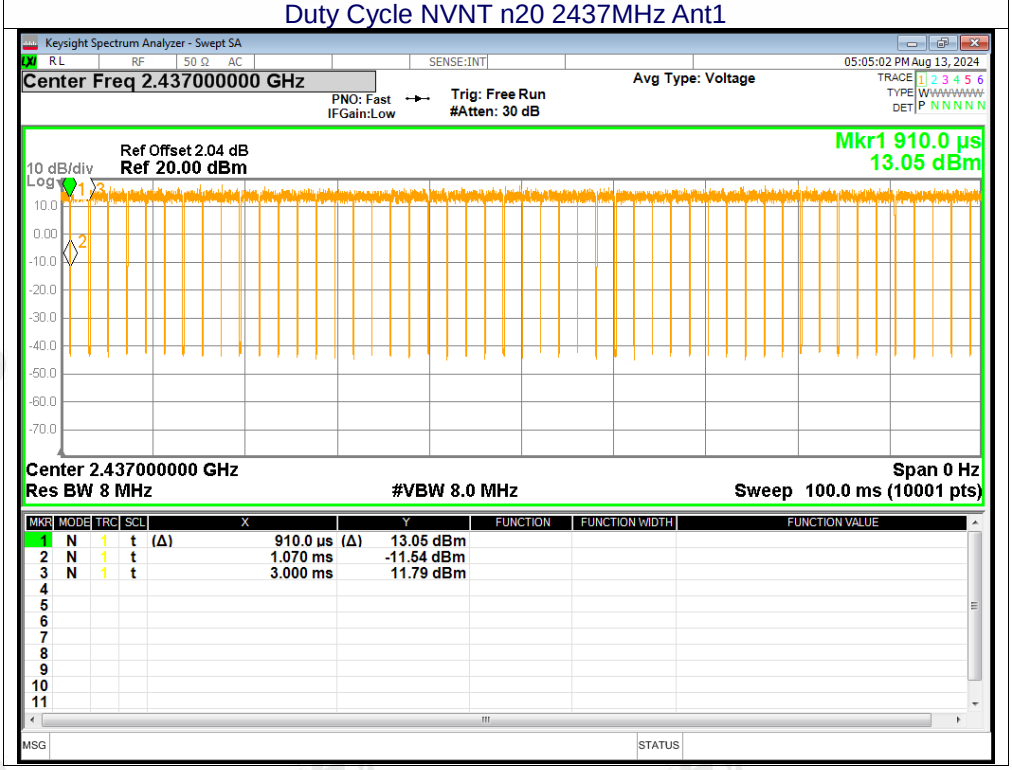
Duty Cycle NVNT g 2462MHz Ant1



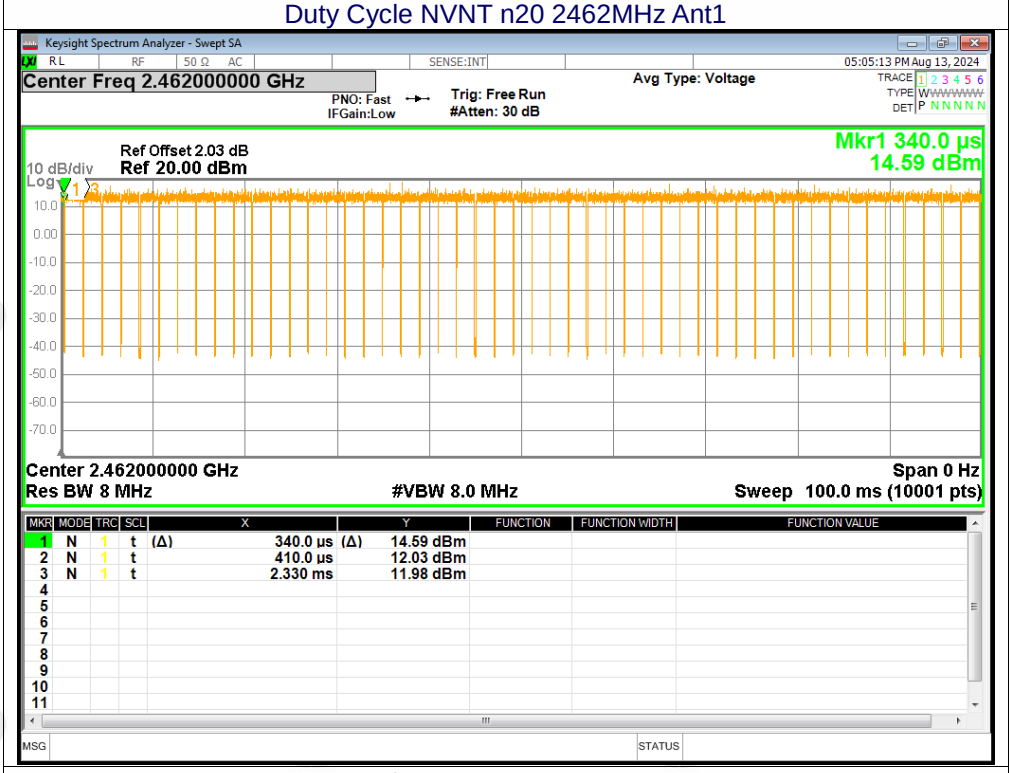
Duty Cycle NVNT n20 2412MHz Ant1



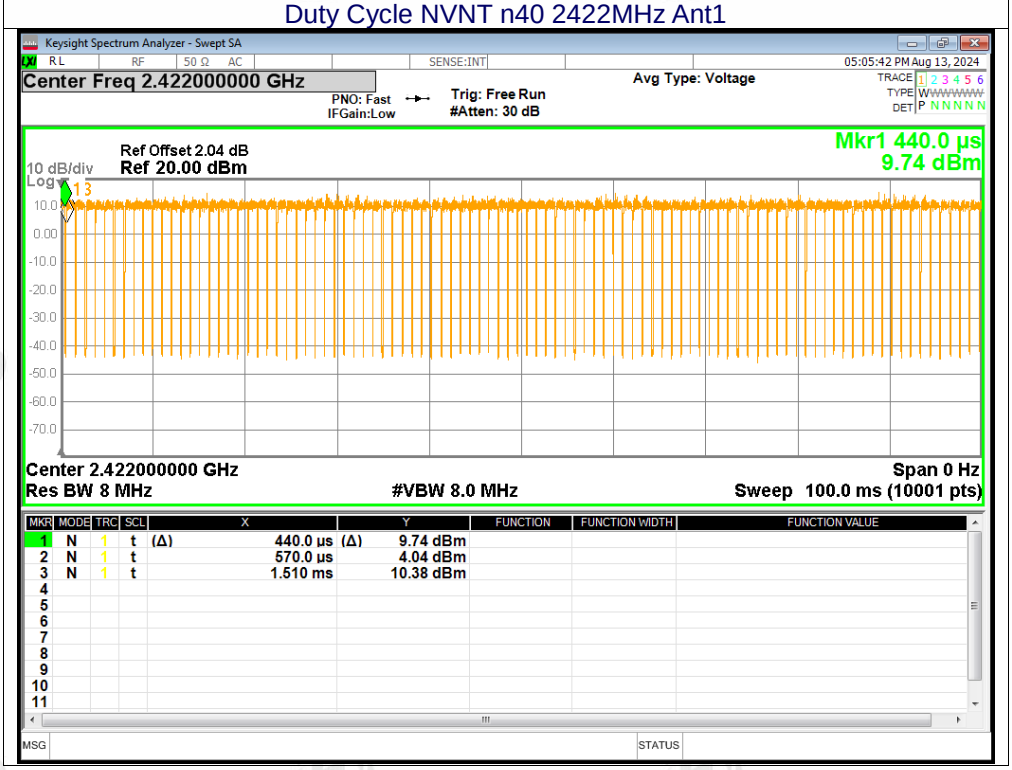
Duty Cycle NVNT n20 2437MHz Ant1



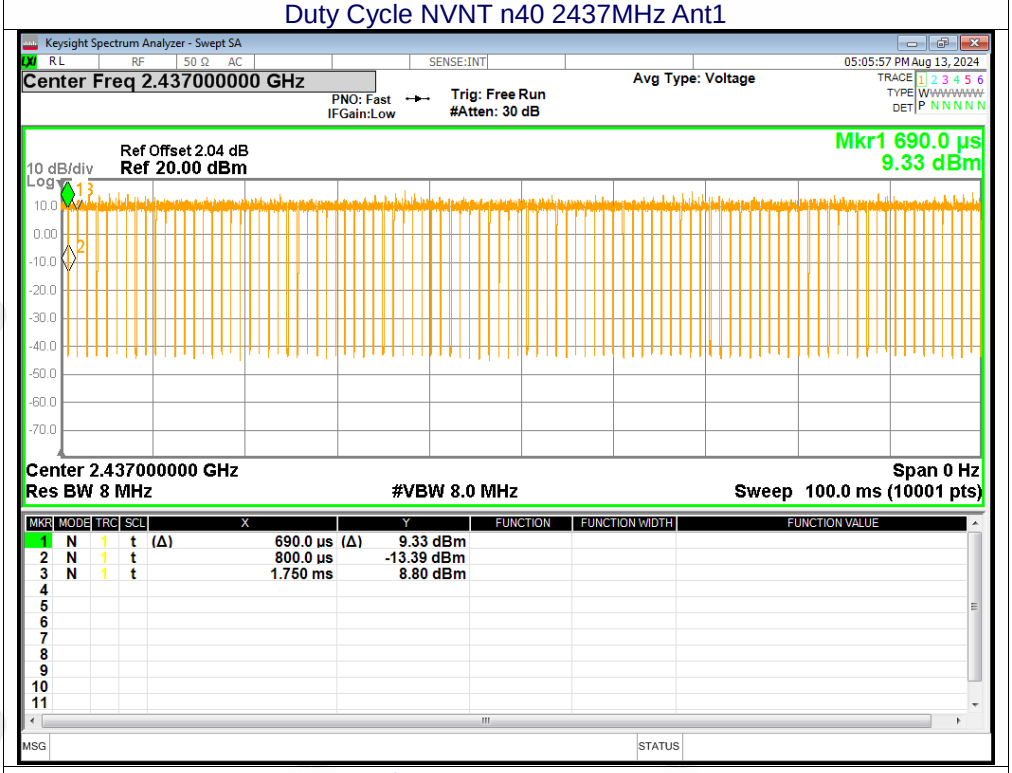
Duty Cycle NVNT n20 2462MHz Ant1



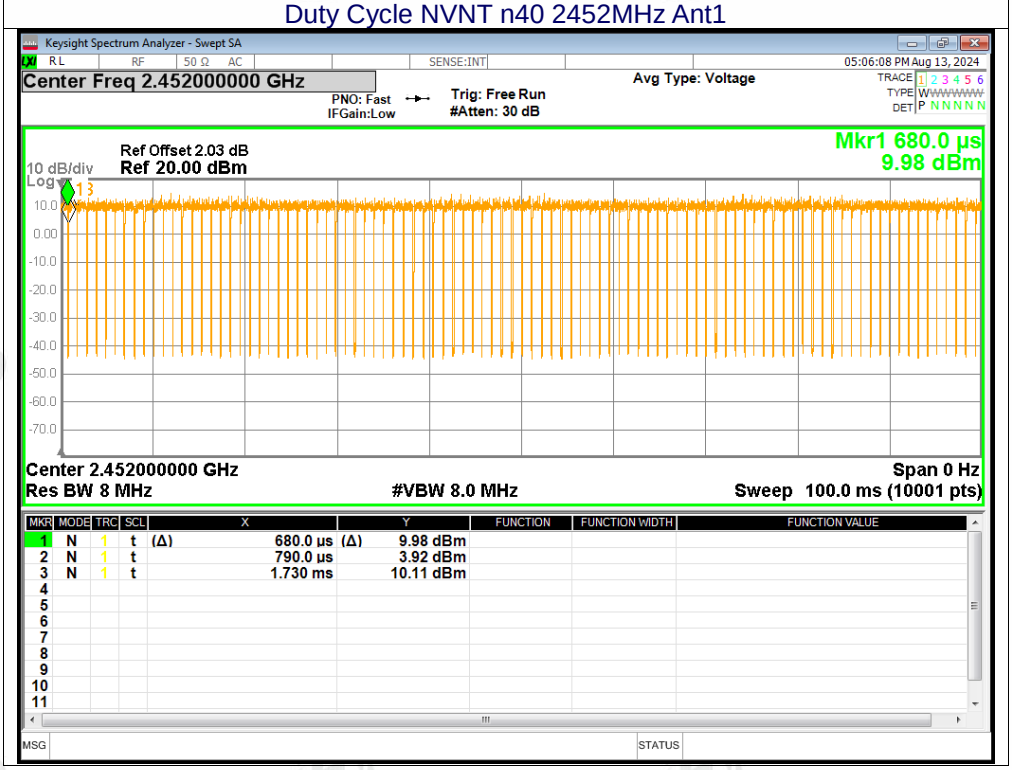
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



11.2 CONDUCTED OUTPUT POWER

Maximum Peak Conducted Output Power

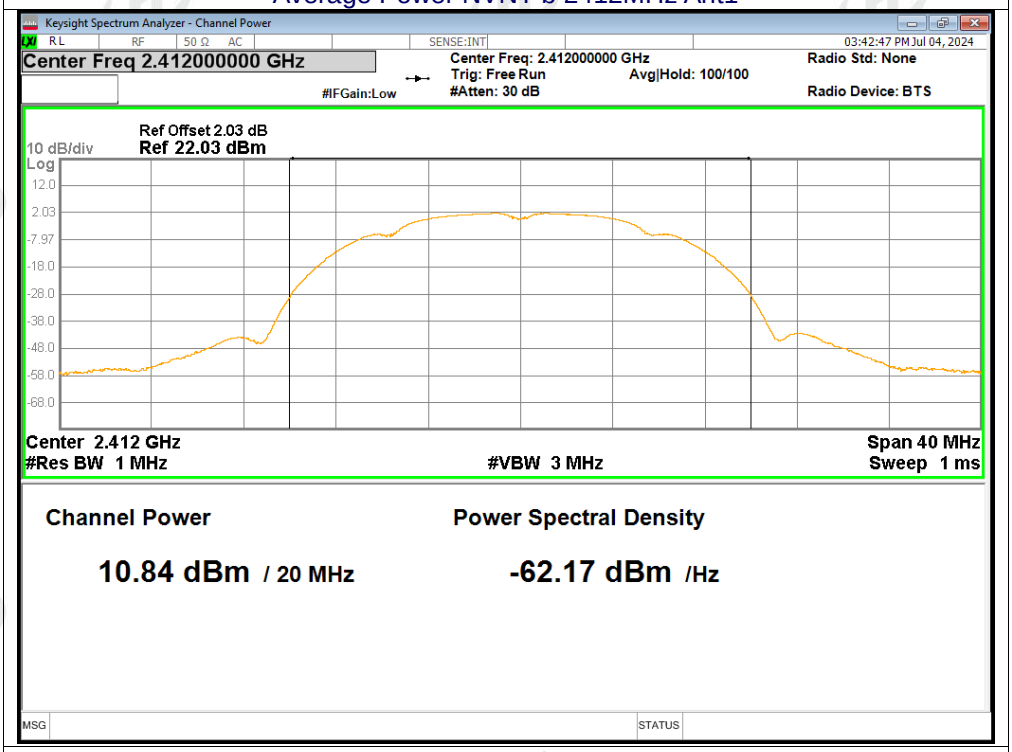
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	12.35	30	Pass
b	2437	11.55	30	Pass
b	2462	11.31	30	Pass
g	2412	12.06	30	Pass
g	2437	12.36	30	Pass
g	2462	12.17	30	Pass
n20	2412	11.41	30	Pass
n20	2437	11.71	30	Pass
n20	2462	11.63	30	Pass
n40	2422	11.42	30	Pass
n40	2437	11.55	30	Pass
n40	2452	11.39	30	Pass

Maximum Average

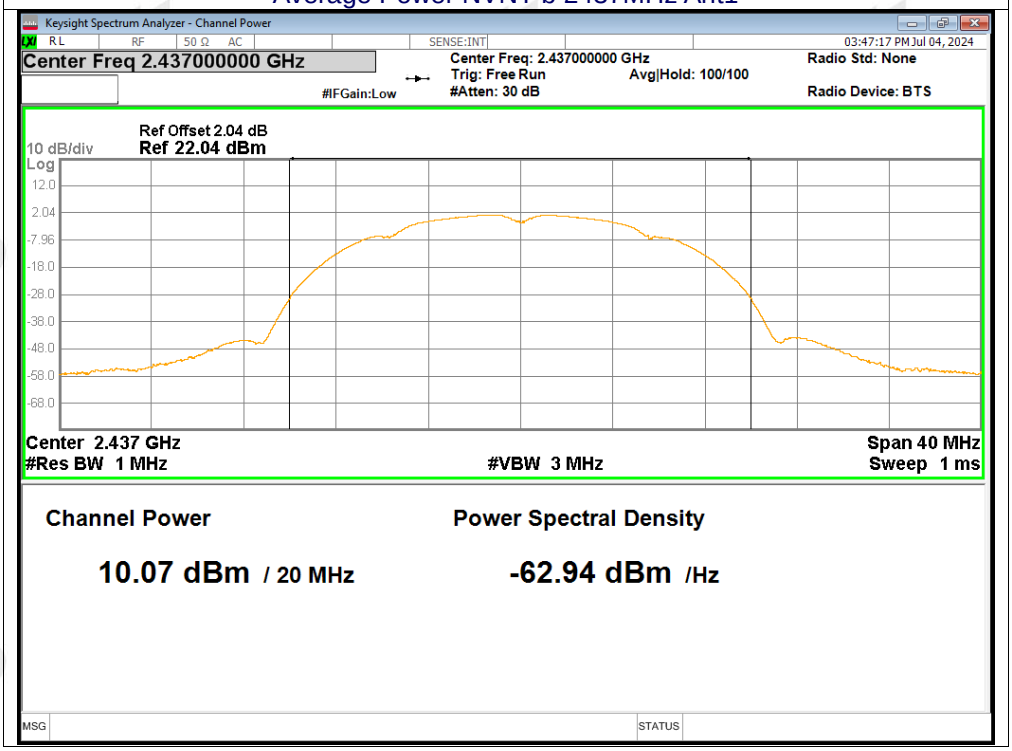
Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	10.84	0	10.84	30	Pass
b	2437	10.07	0	10.07	30	Pass
b	2462	9.87	0	9.87	30	Pass
g	2412	7.4	0.1	7.5	30	Pass
g	2437	7.7	0.31	8.01	30	Pass
g	2462	7.41	0.32	7.73	30	Pass
n20	2412	6.73	0.15	6.88	30	Pass
n20	2437	7.15	0.35	7.5	30	Pass
n20	2462	6.93	0.16	7.09	30	Pass
n40	2422	6.5	0.56	7.06	30	Pass
n40	2437	6.65	0.48	7.13	30	Pass
n40	2452	6.4	0.48	6.88	30	Pass

Test Graphs

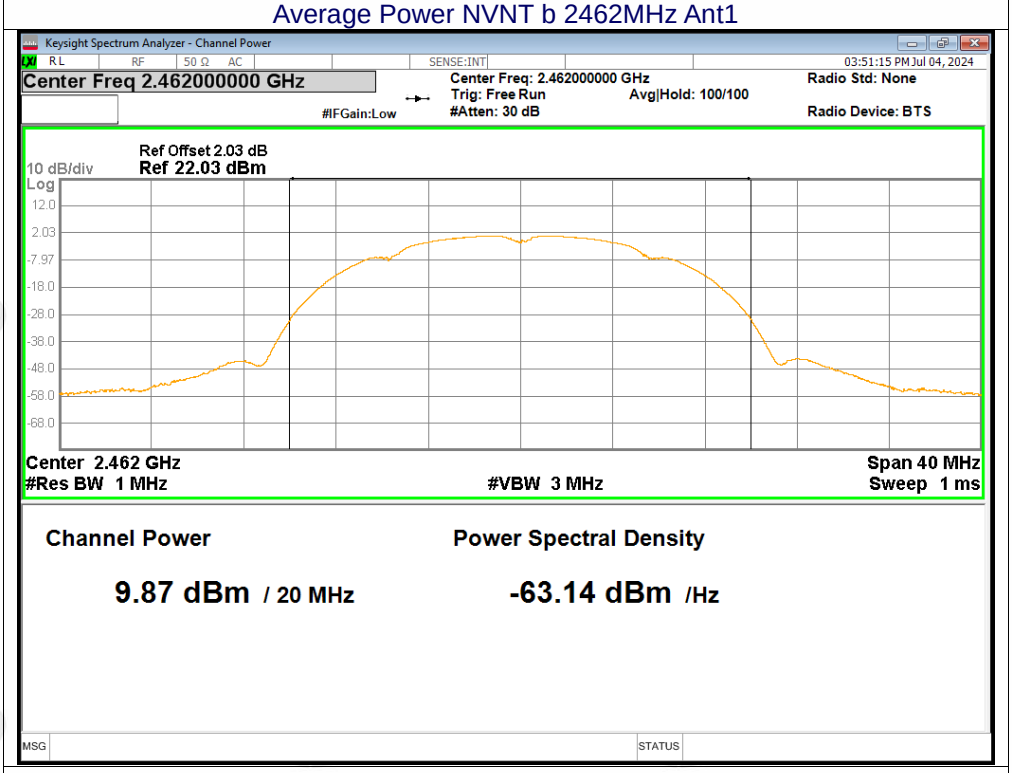
Average Power NVNT b 2412MHz Ant1



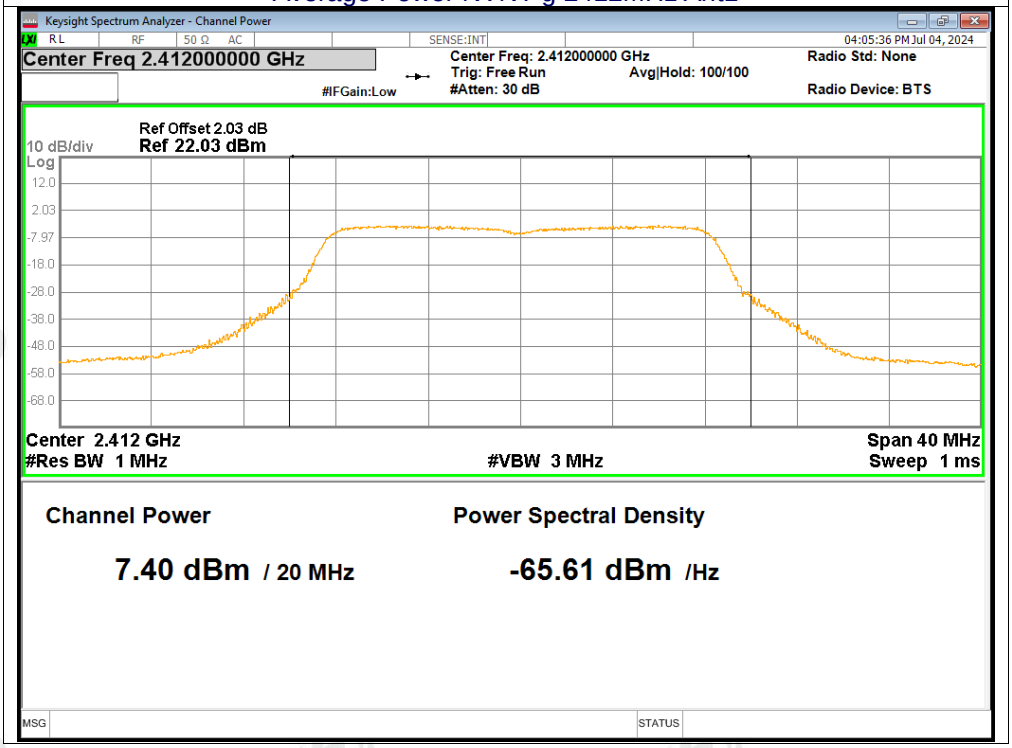
Average Power NVNT b 2437MHz Ant1



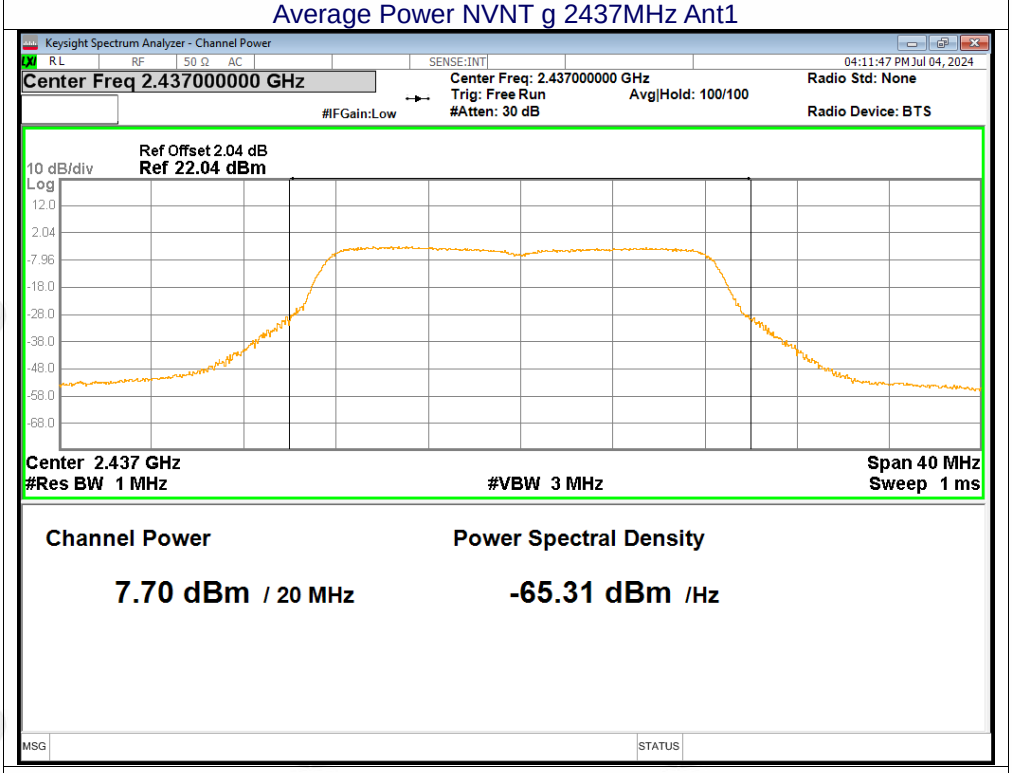
Average Power NVNT b 2462MHz Ant1



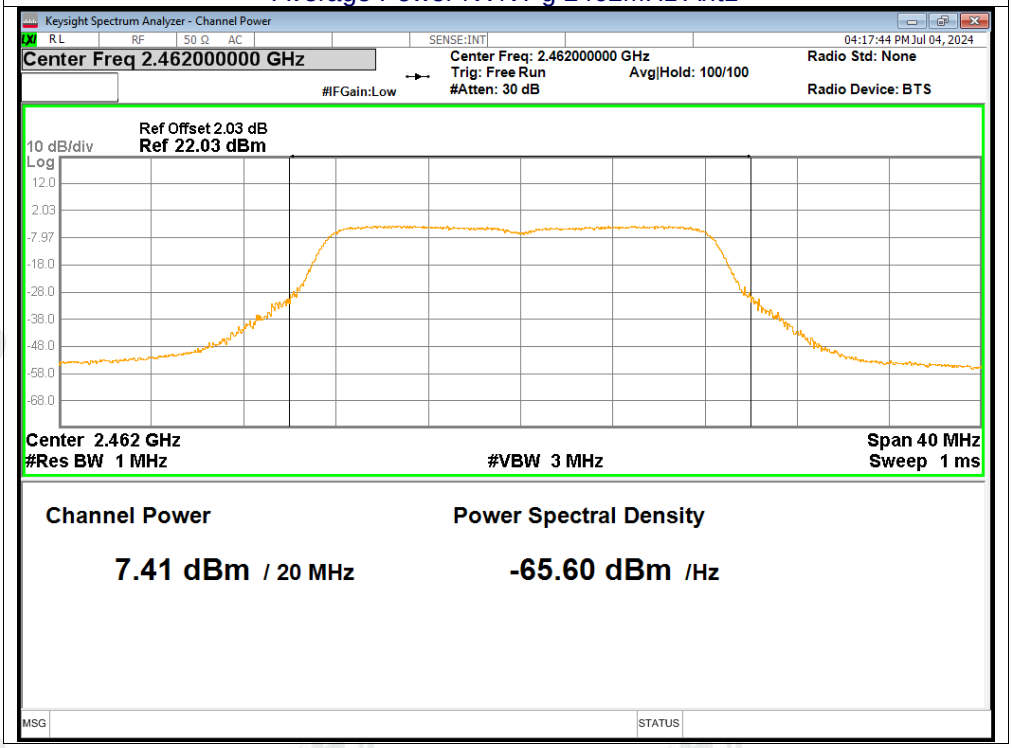
Average Power NVNT g 2412MHz Ant1



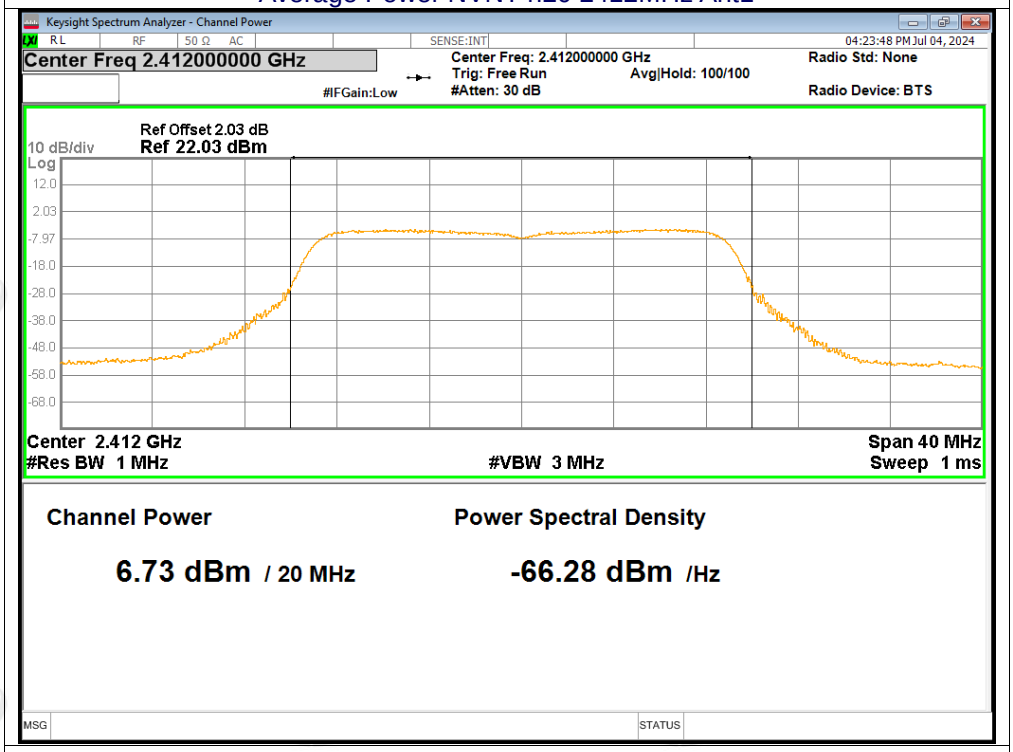
Average Power NVNT g 2437MHz Ant1



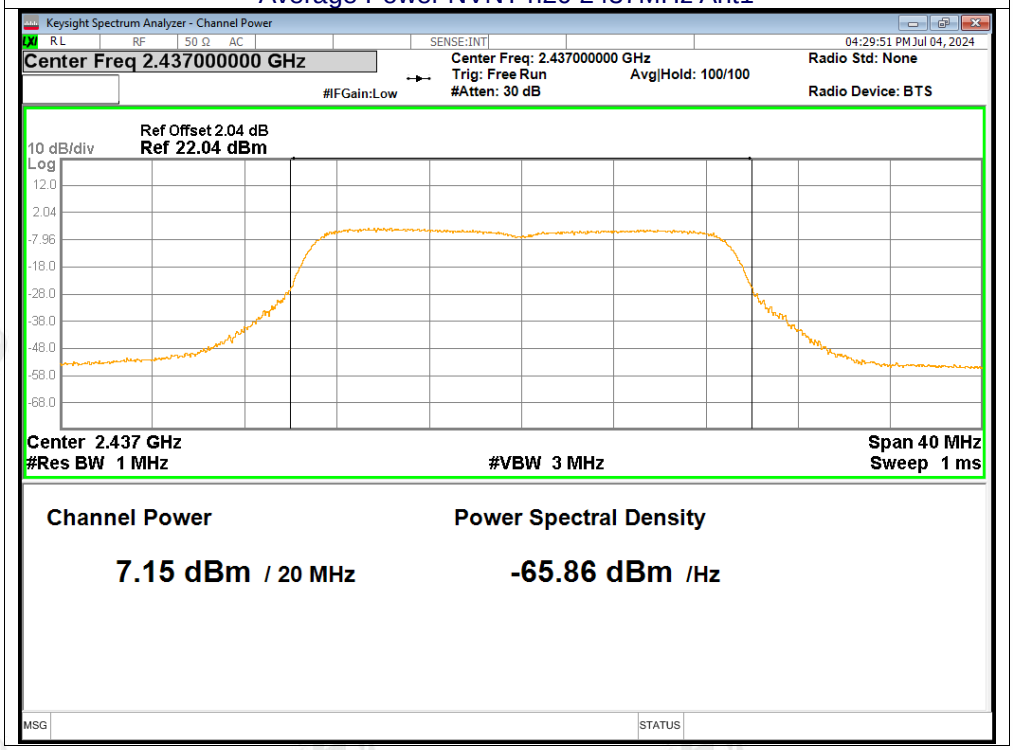
Average Power NVNT g 2462MHz Ant1



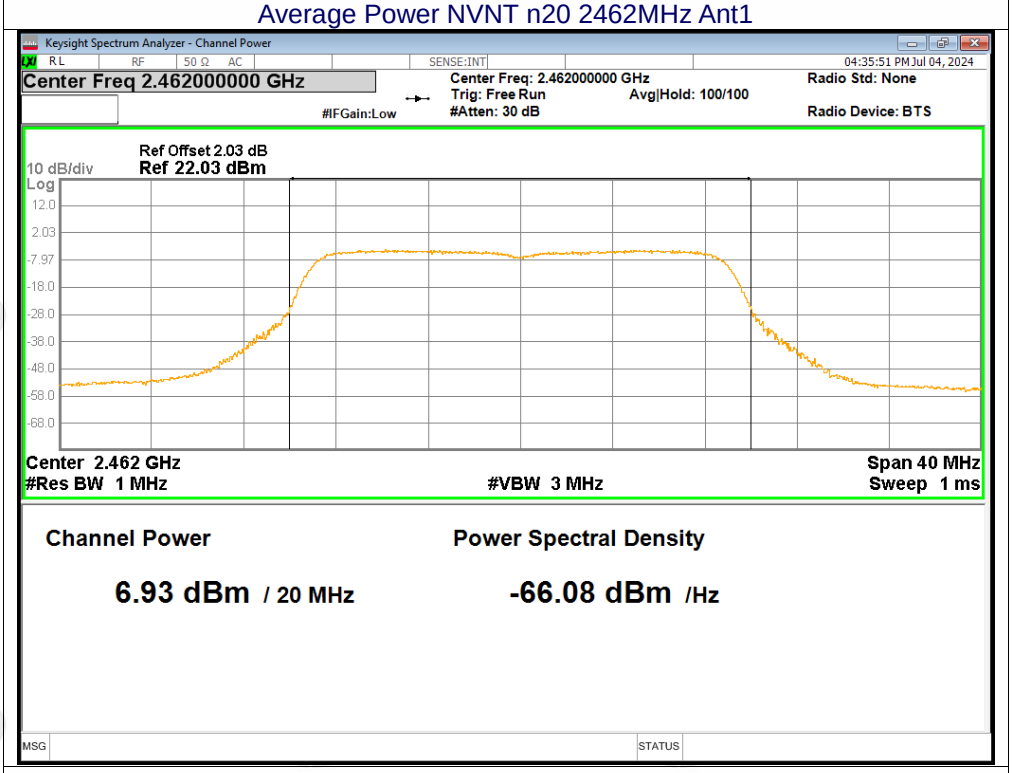
Average Power NVNT n20 2412MHz Ant1



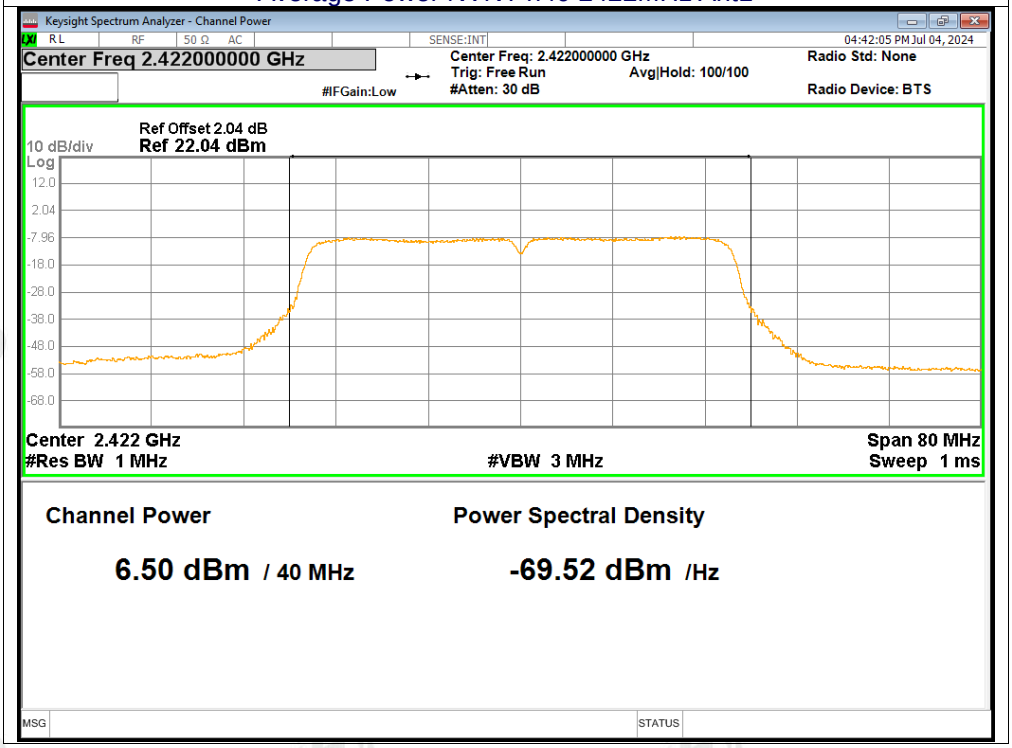
Average Power NVNT n20 2437MHz Ant1



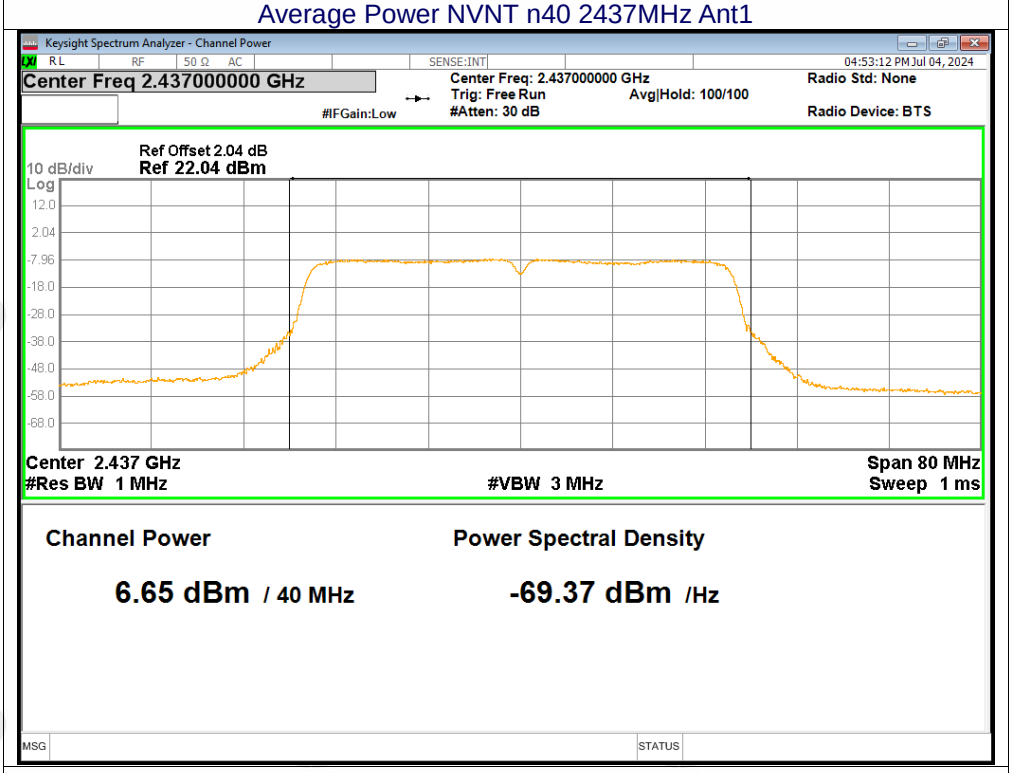
Average Power NVNT n20 2462MHz Ant1



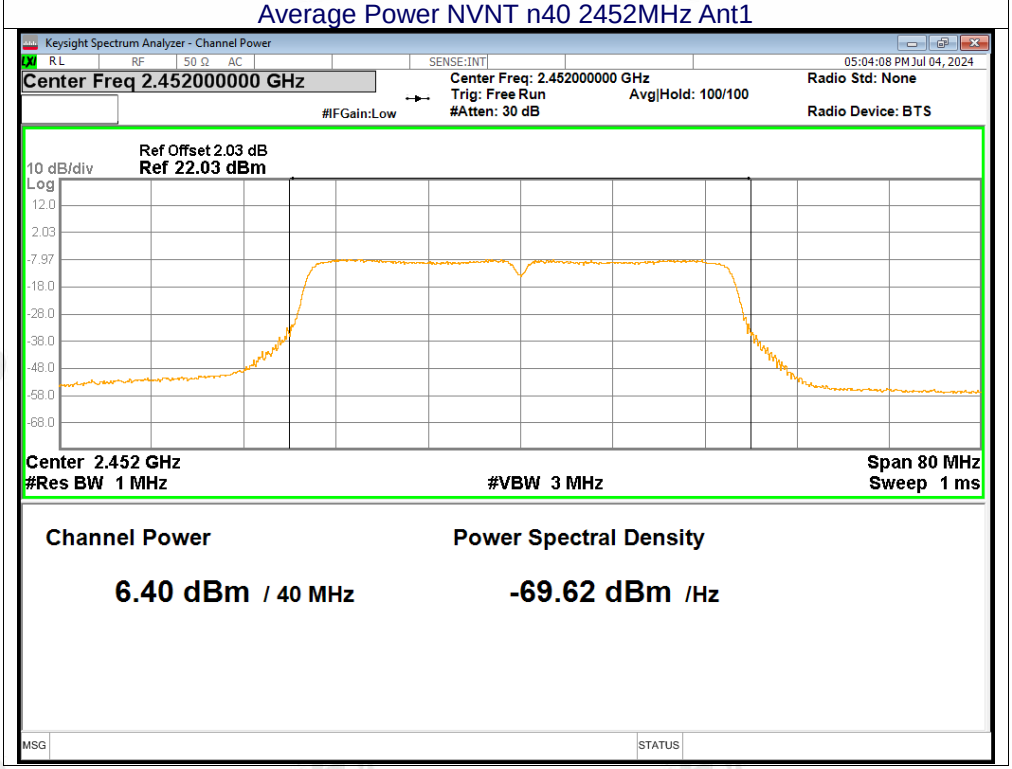
Average Power NVNT n40 2422MHz Ant1



Average Power NVNT n40 2437MHz Ant1



Average Power NVNT n40 2452MHz Ant1

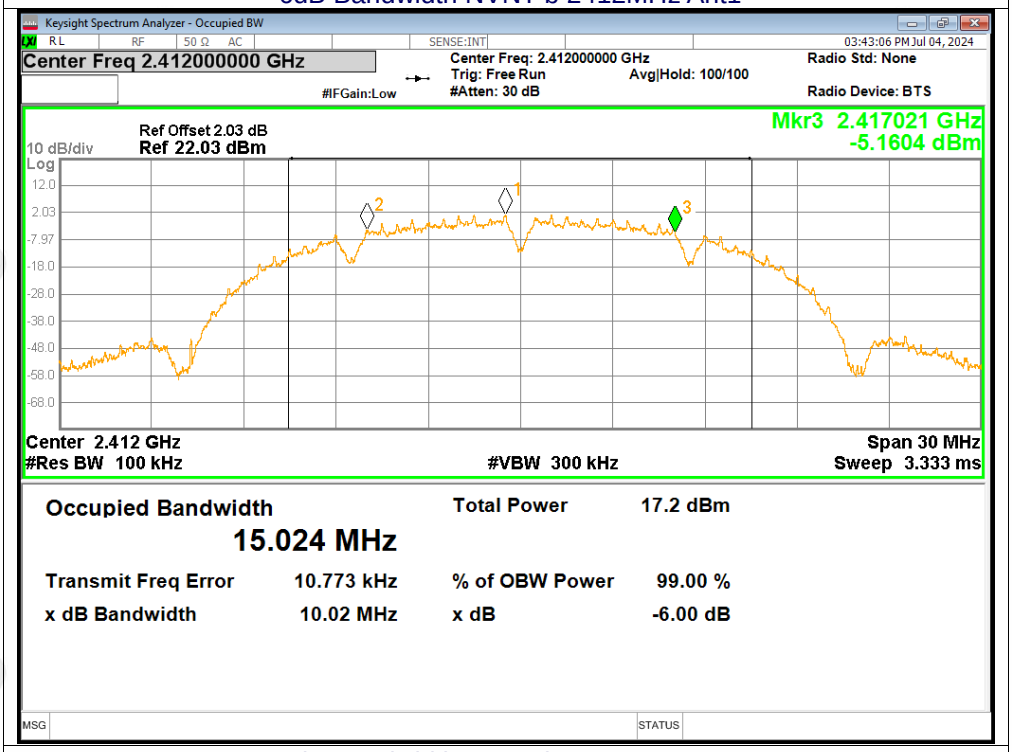


11.3 -6DB BANDWIDTH

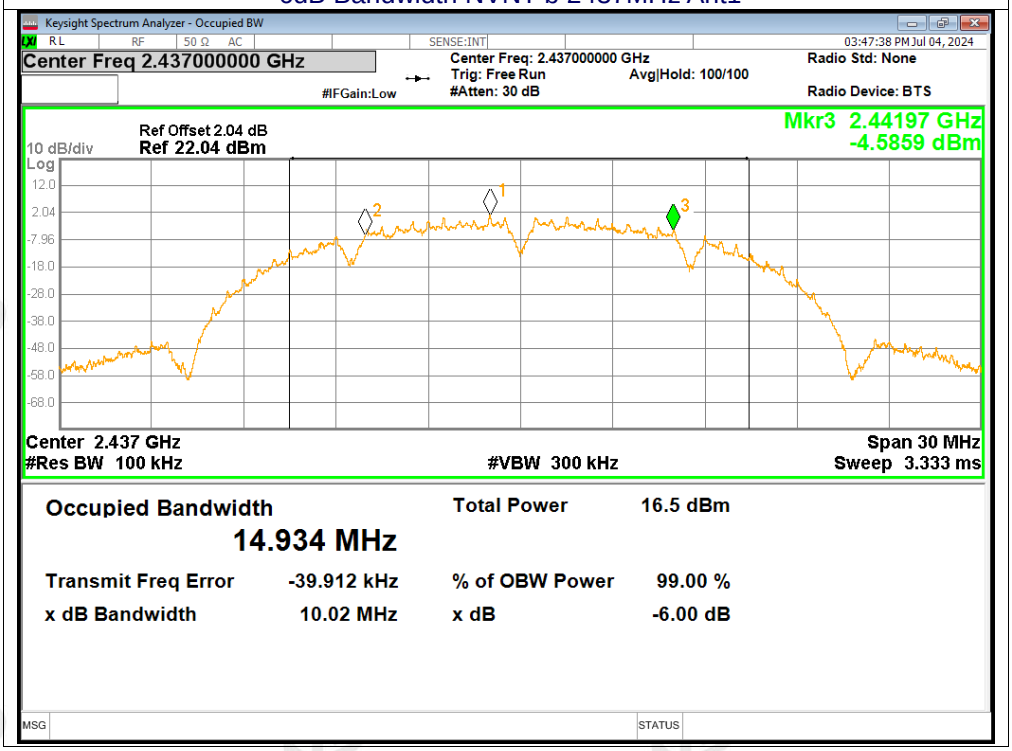
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	10.02	0.5	Pass
b	2437	10.019	0.5	Pass
b	2462	10.083	0.5	Pass
g	2412	16.324	0.5	Pass
g	2437	16.342	0.5	Pass
g	2462	16.326	0.5	Pass
n20	2412	17.287	0.5	Pass
n20	2437	17.551	0.5	Pass
n20	2462	17.303	0.5	Pass
n40	2422	35.116	0.5	Pass
n40	2437	35.709	0.5	Pass
n40	2452	35.65	0.5	Pass

Test Graphs

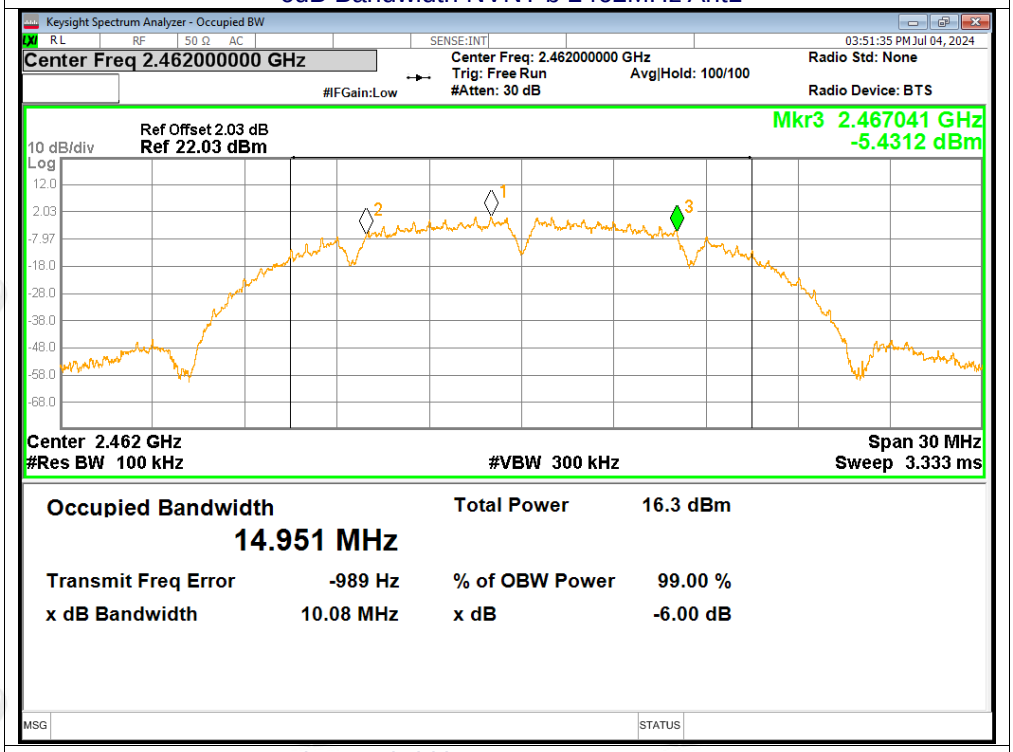
-6dB Bandwidth NVNT b 2412MHz Ant1



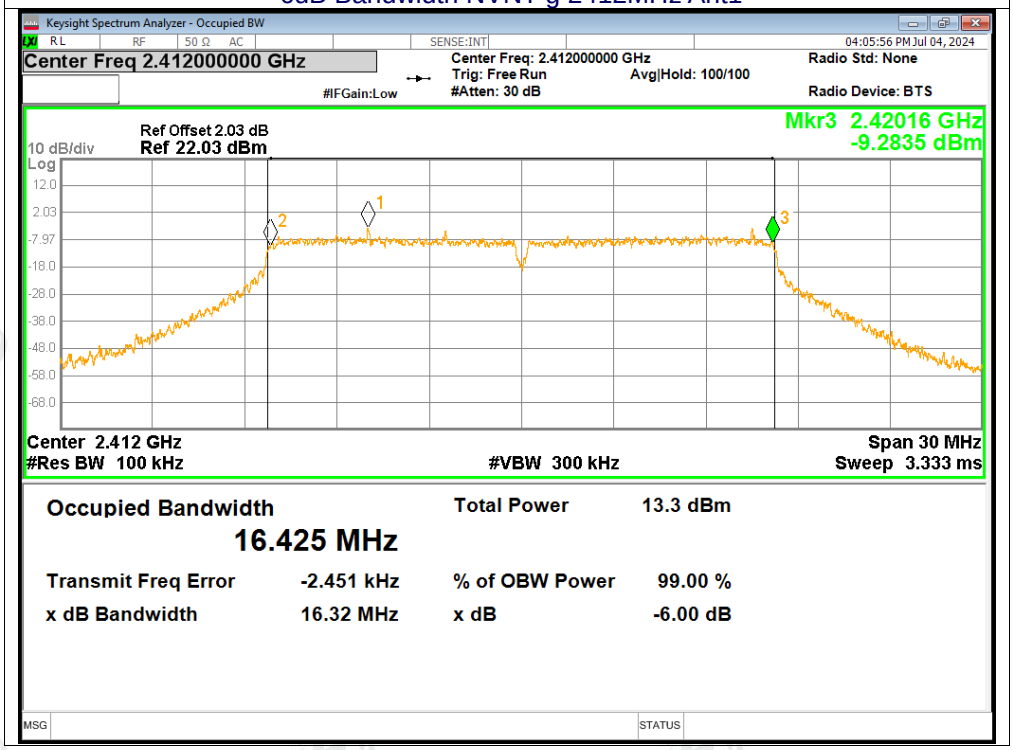
-6dB Bandwidth NVNT b 2437MHz Ant1



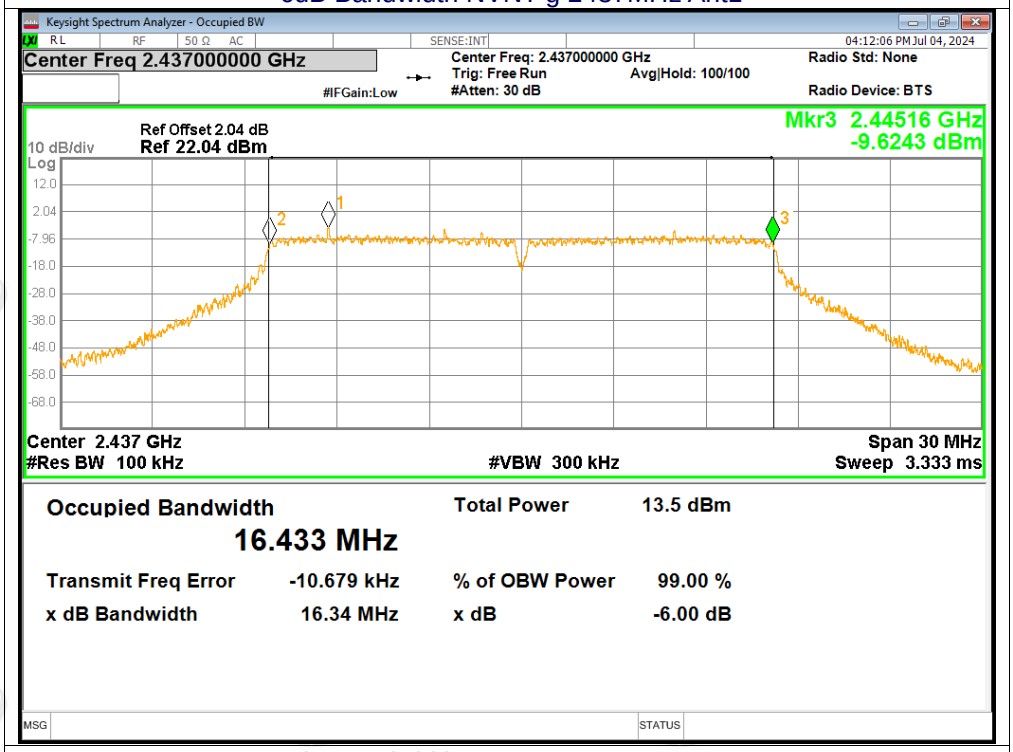
-6dB Bandwidth NVNT b 2462MHz Ant1



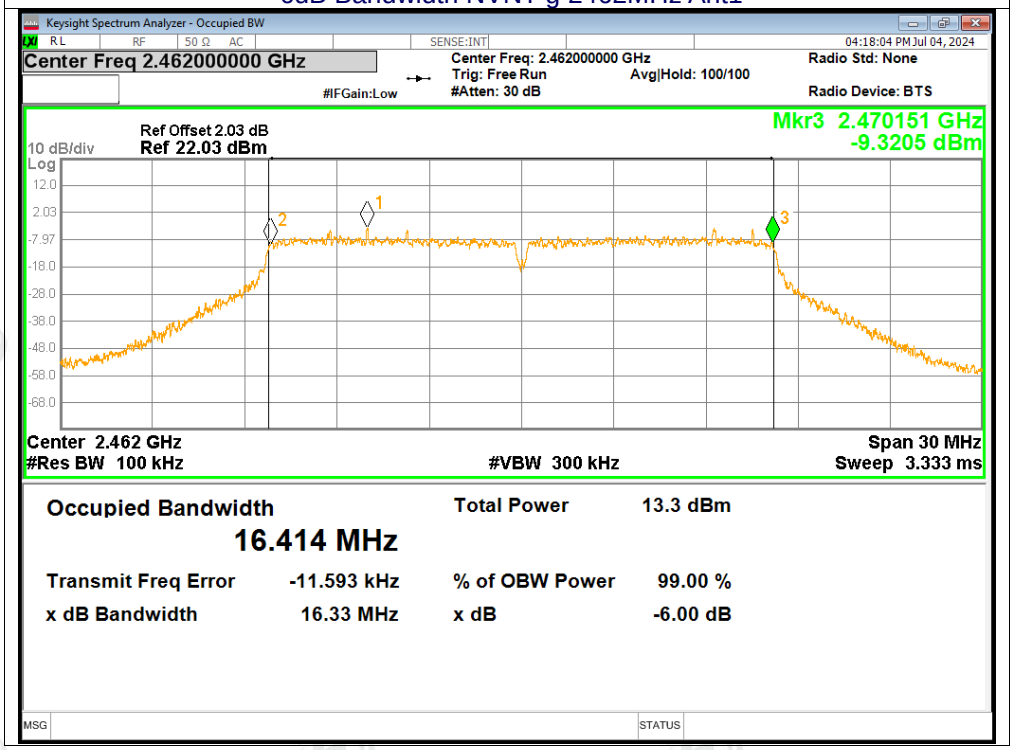
-6dB Bandwidth NVNT g 2412MHz Ant1



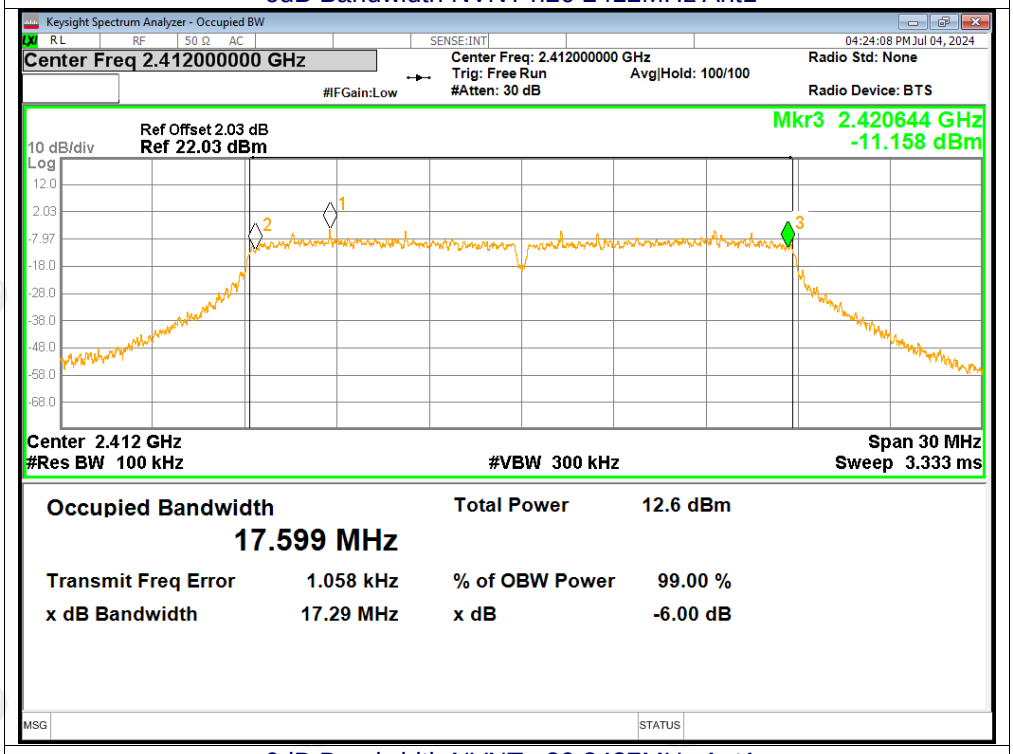
-6dB Bandwidth NVNT g 2437MHz Ant1



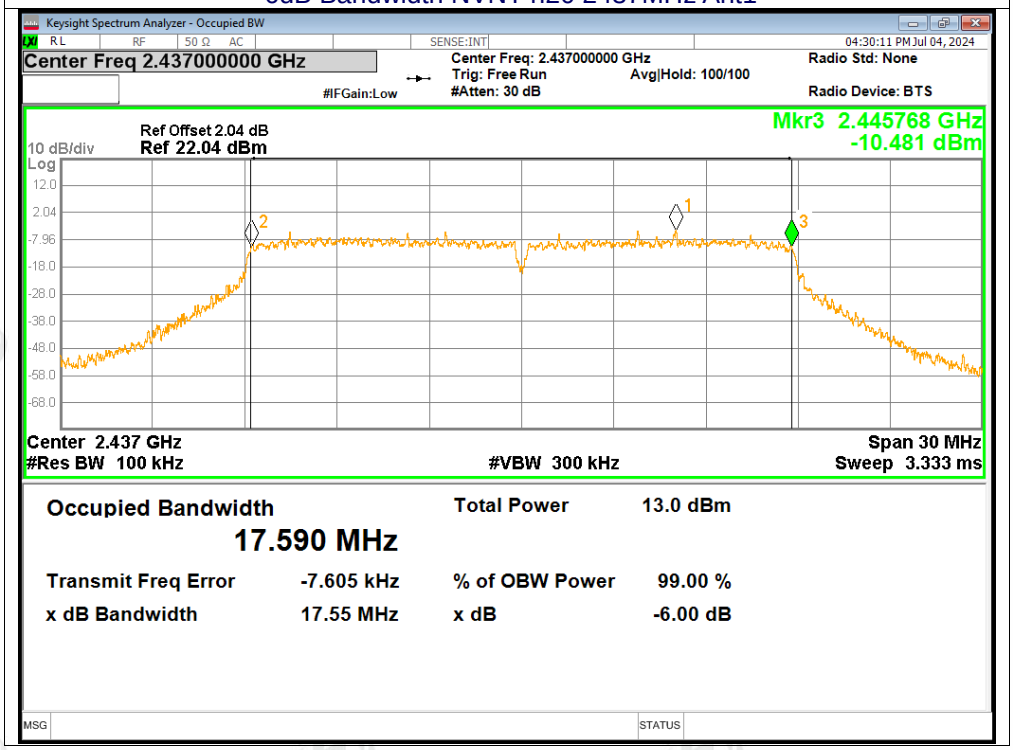
-6dB Bandwidth NVNT g 2462MHz Ant1



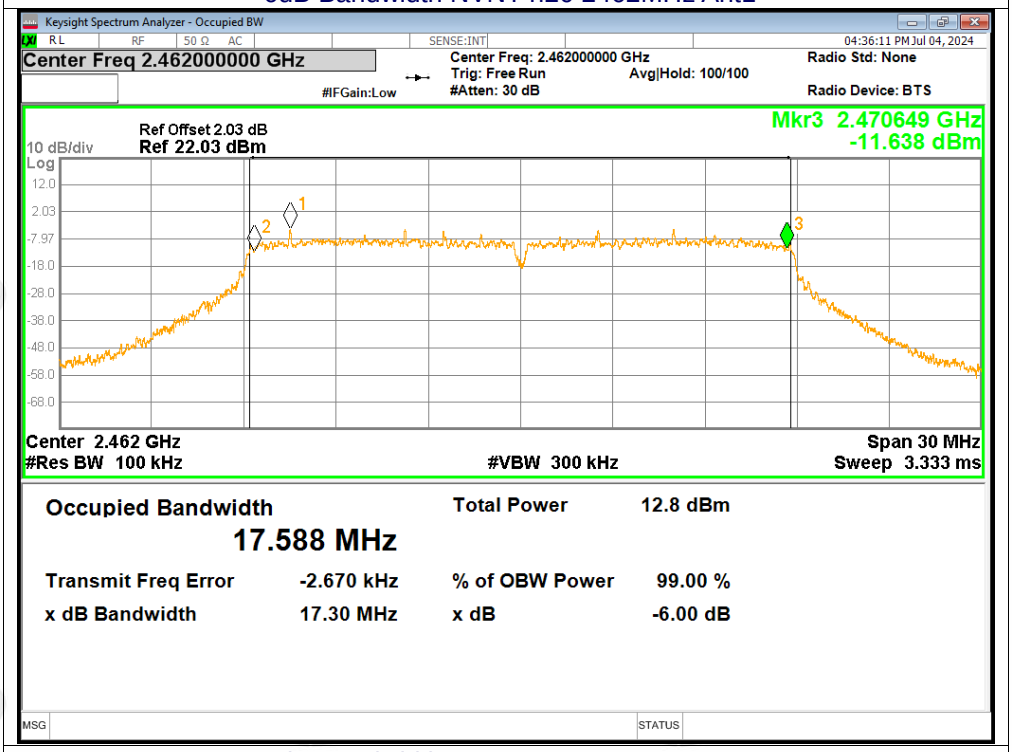
-6dB Bandwidth NVNT n20 2412MHz Ant1



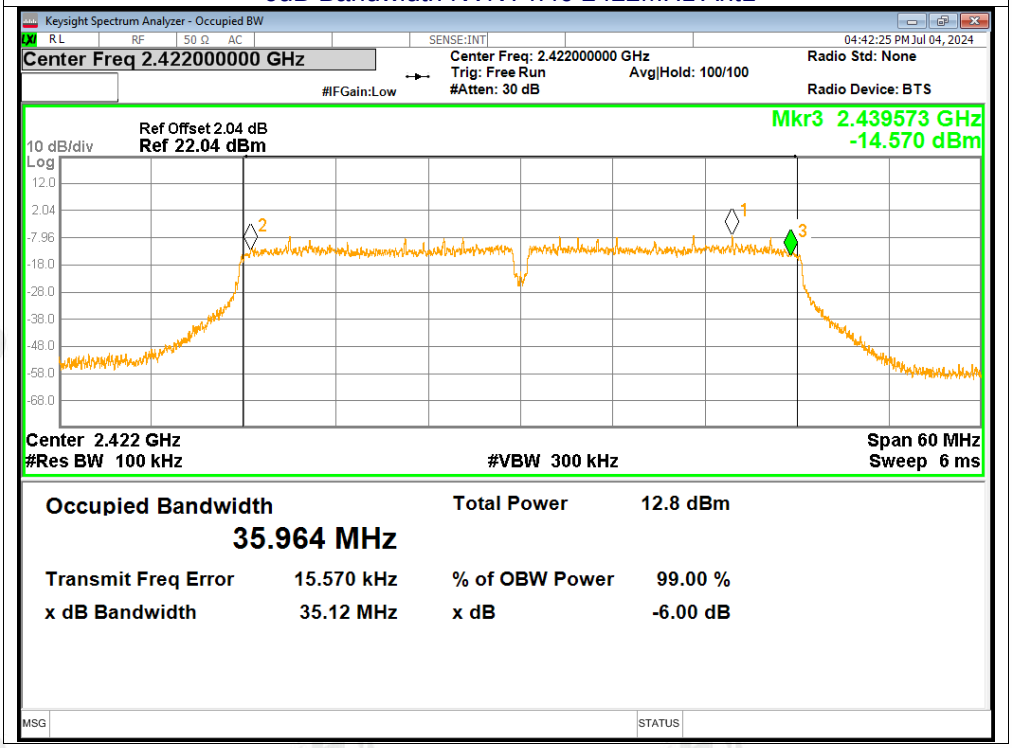
-6dB Bandwidth NVNT n20 2437MHz Ant1



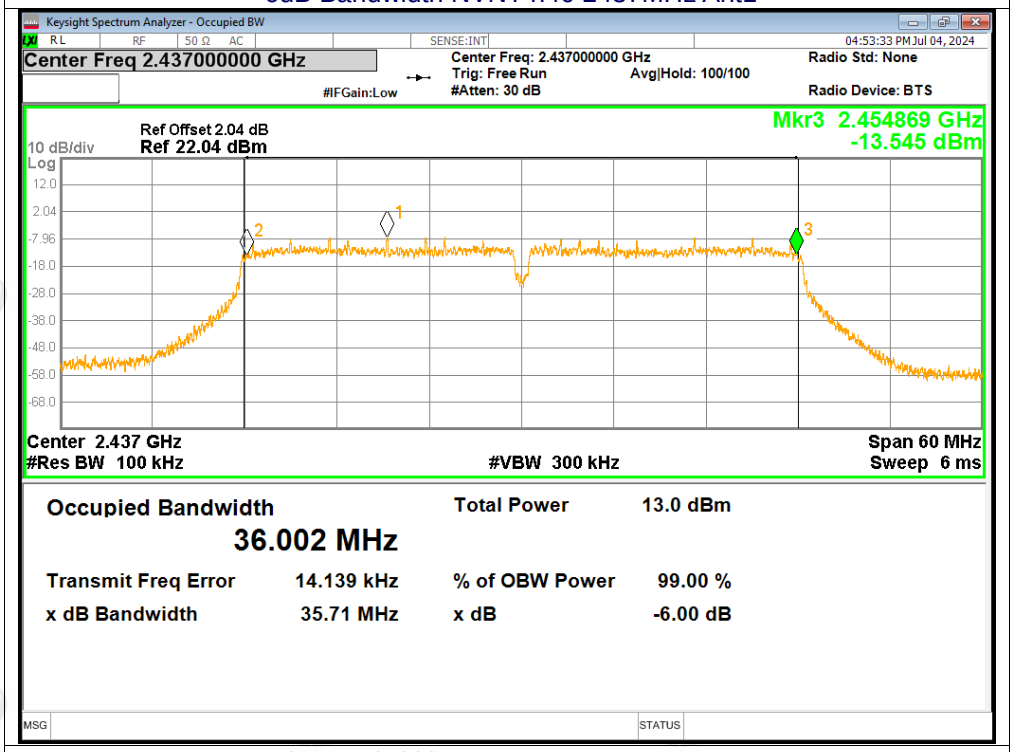
-6dB Bandwidth NVNT n20 2462MHz Ant1



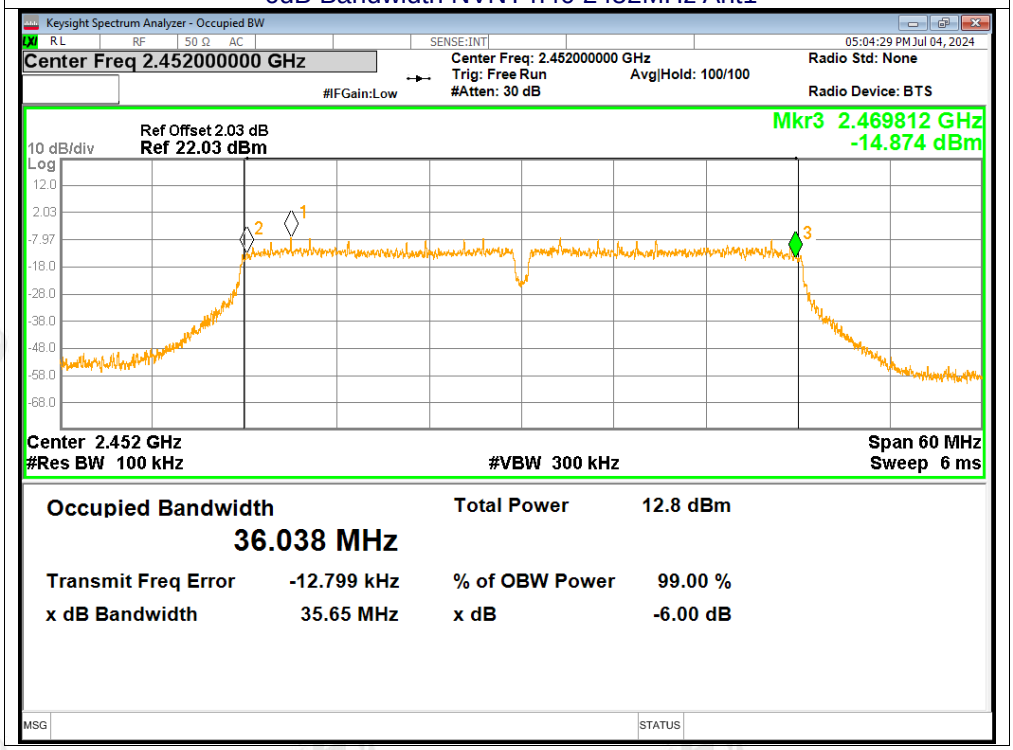
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

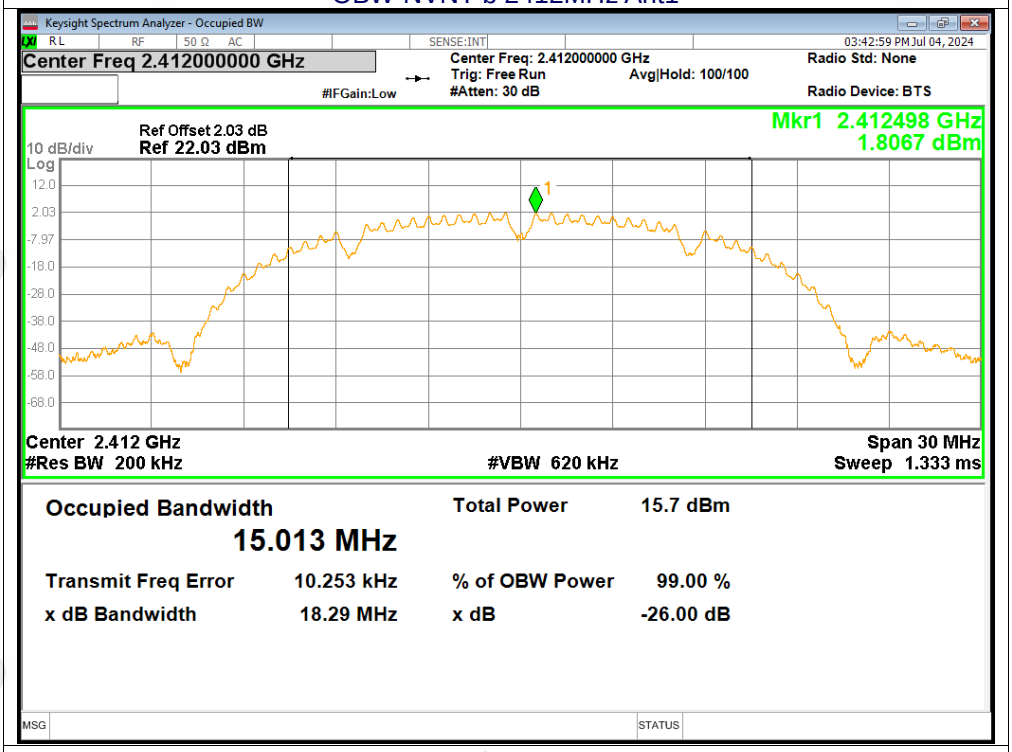


11.4 OCCUPIED CHANNEL BANDWIDTH

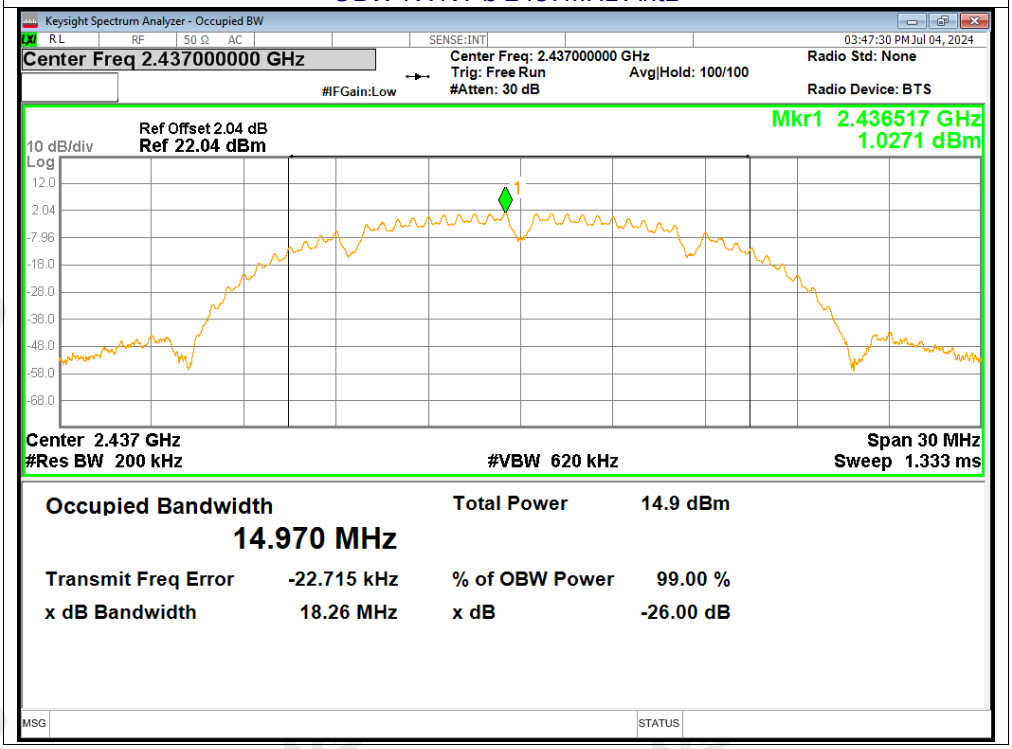
Mode	Frequency (MHz)	99% OBW (MHz)
b	2412	15.013
b	2437	14.97
b	2462	14.956
g	2412	16.515
g	2437	16.591
g	2462	16.566
n20	2412	17.653
n20	2437	17.66
n20	2462	17.623
n40	2422	36.141
n40	2437	36.142
n40	2452	36.1

Test Graphs

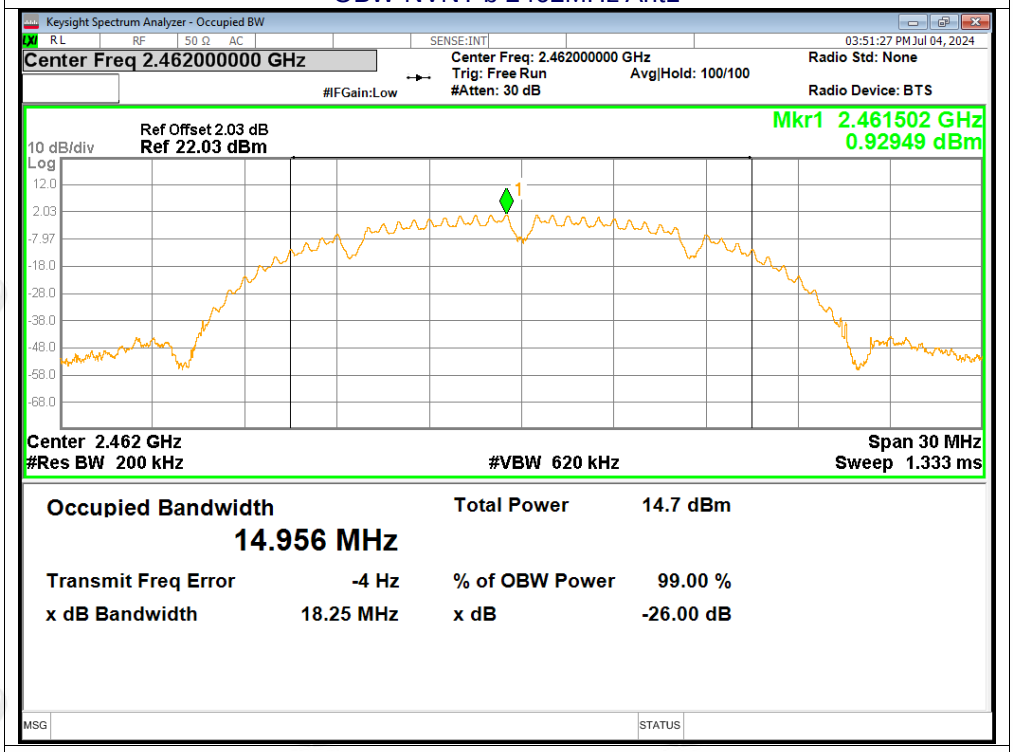
OBW NVNT b 2412MHz Ant1



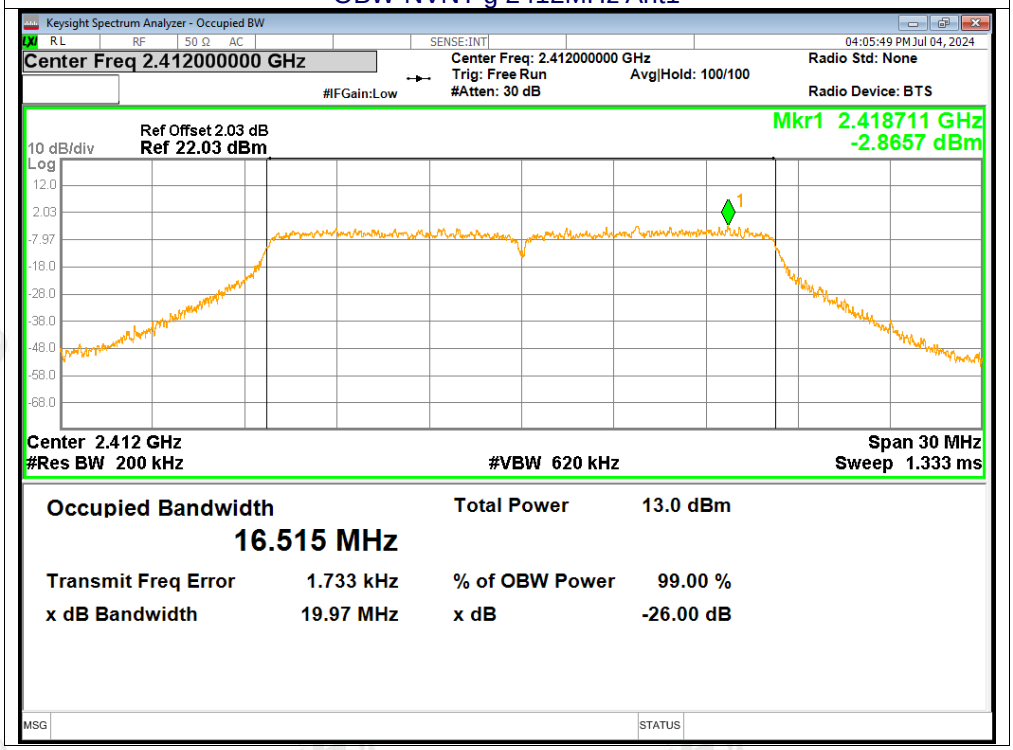
OBW NVNT b 2437MHz Ant1



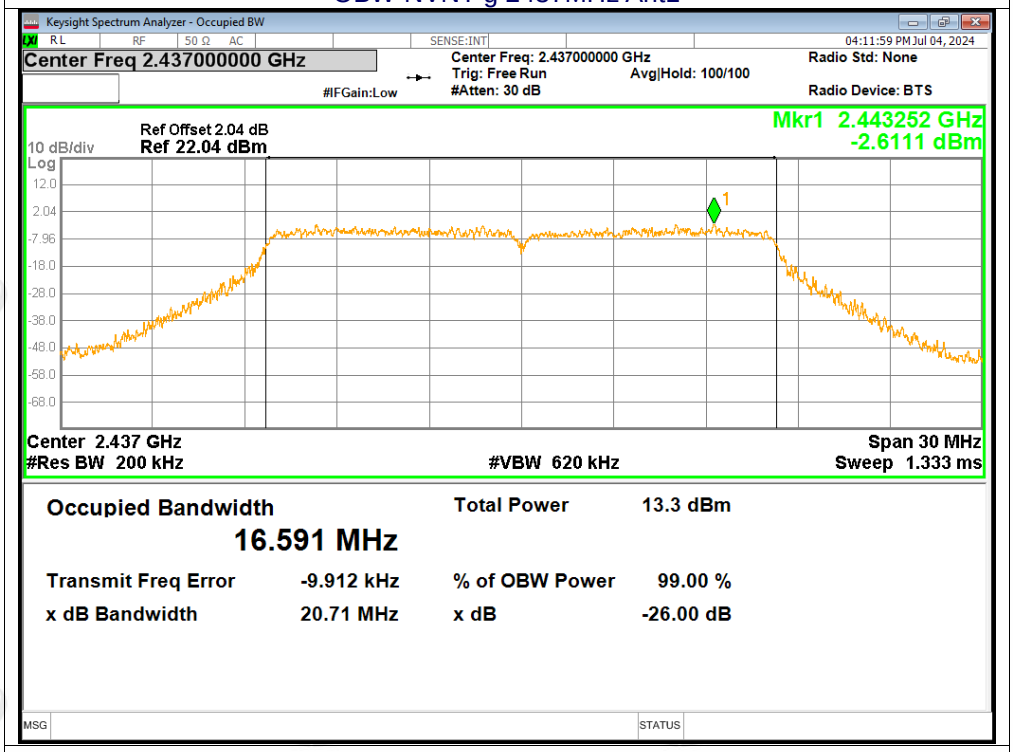
OBW NVNT b 2462MHz Ant1



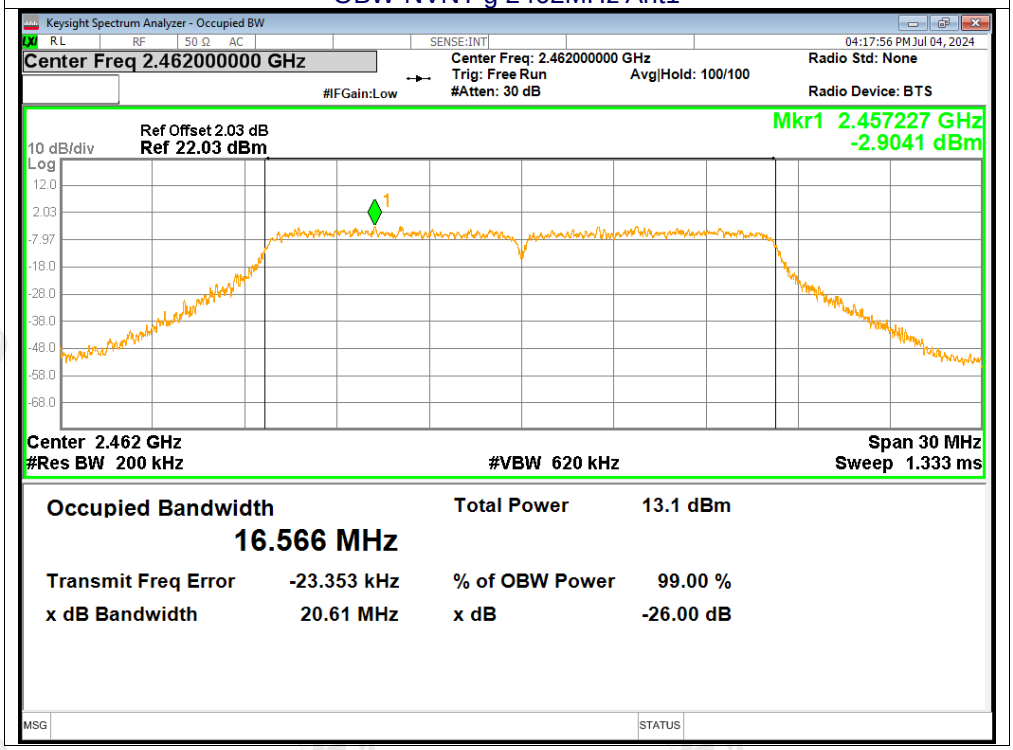
OBW NVNT g 2412MHz Ant1



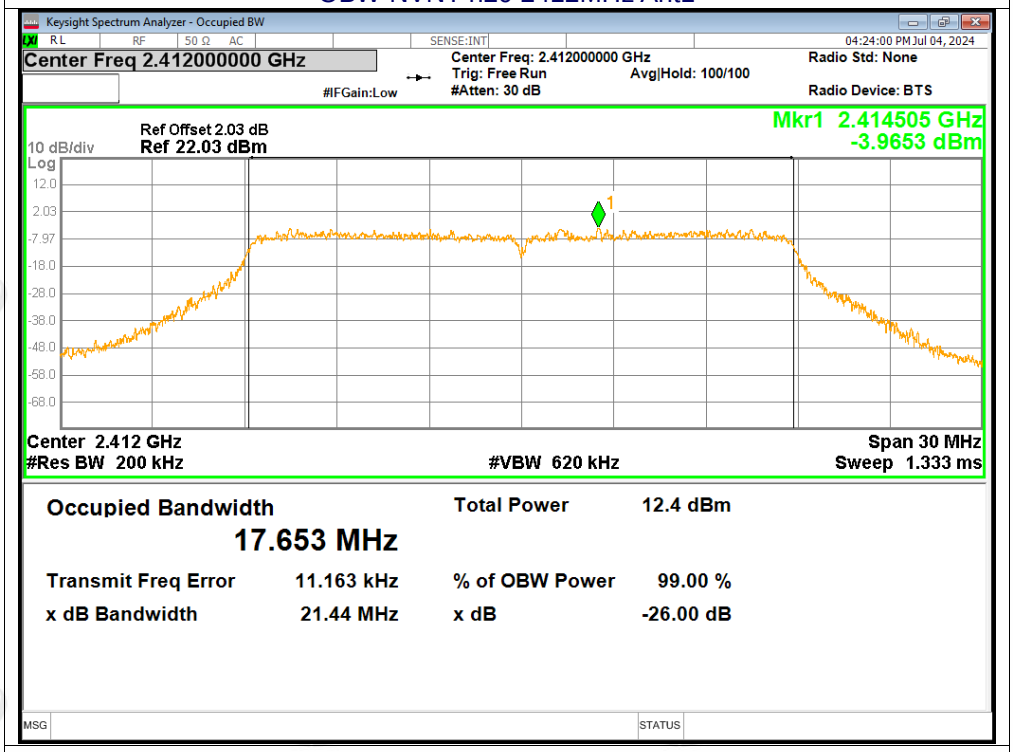
OBW NVNT g 2437MHz Ant1



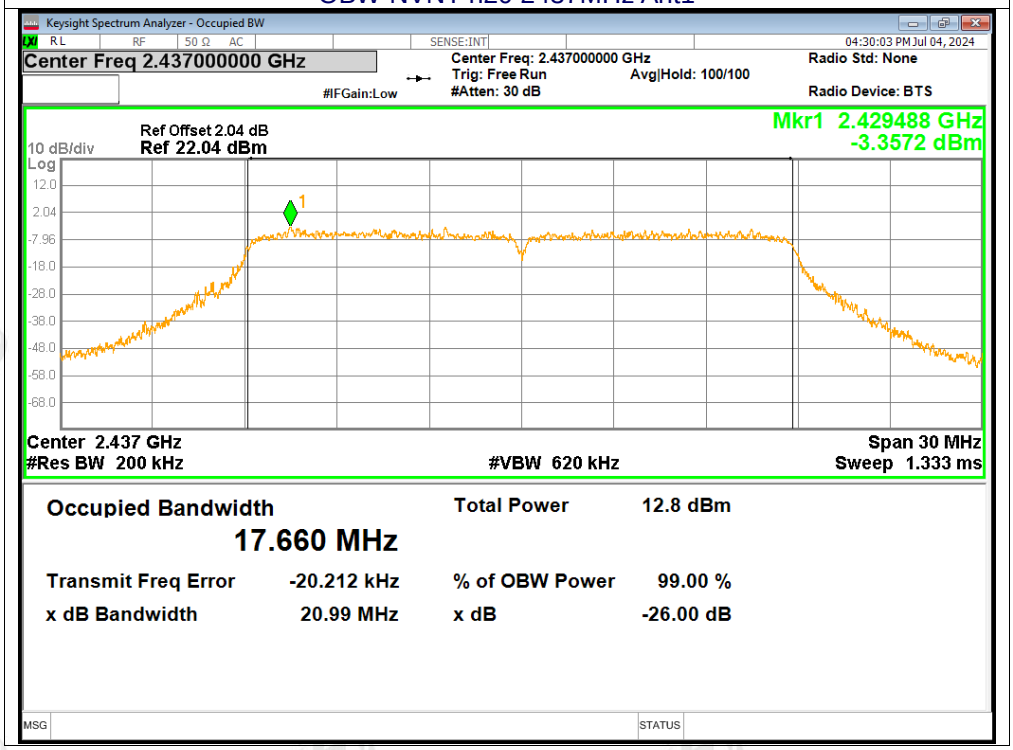
OBW NVNT g 2462MHz Ant1



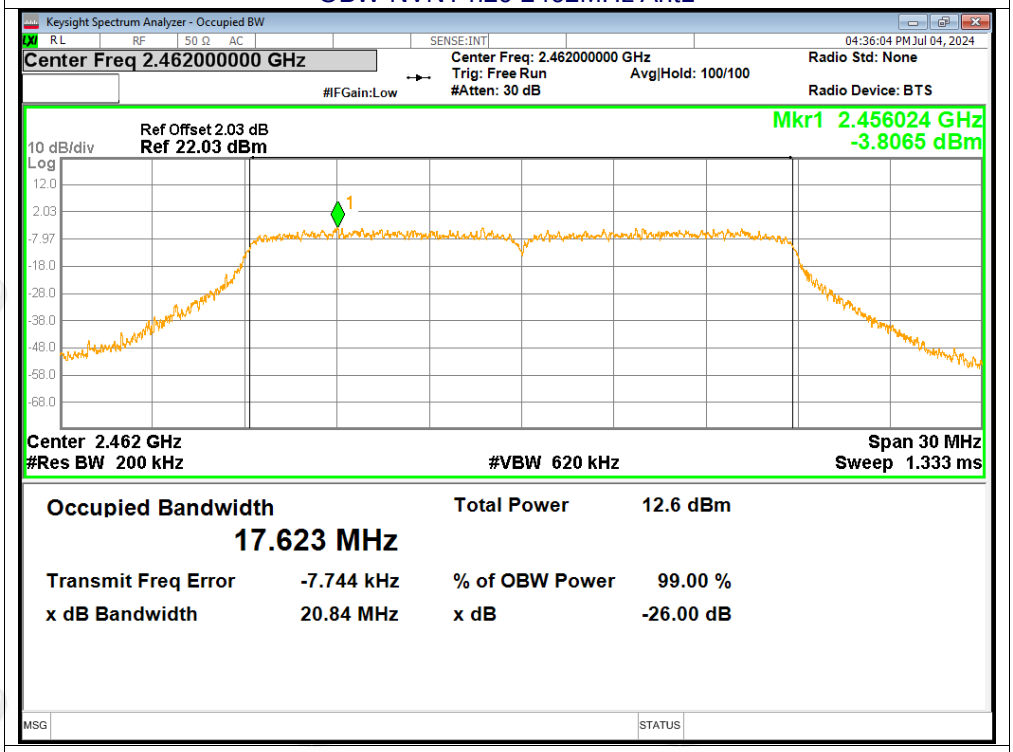
OBW NVNT n20 2412MHz Ant1



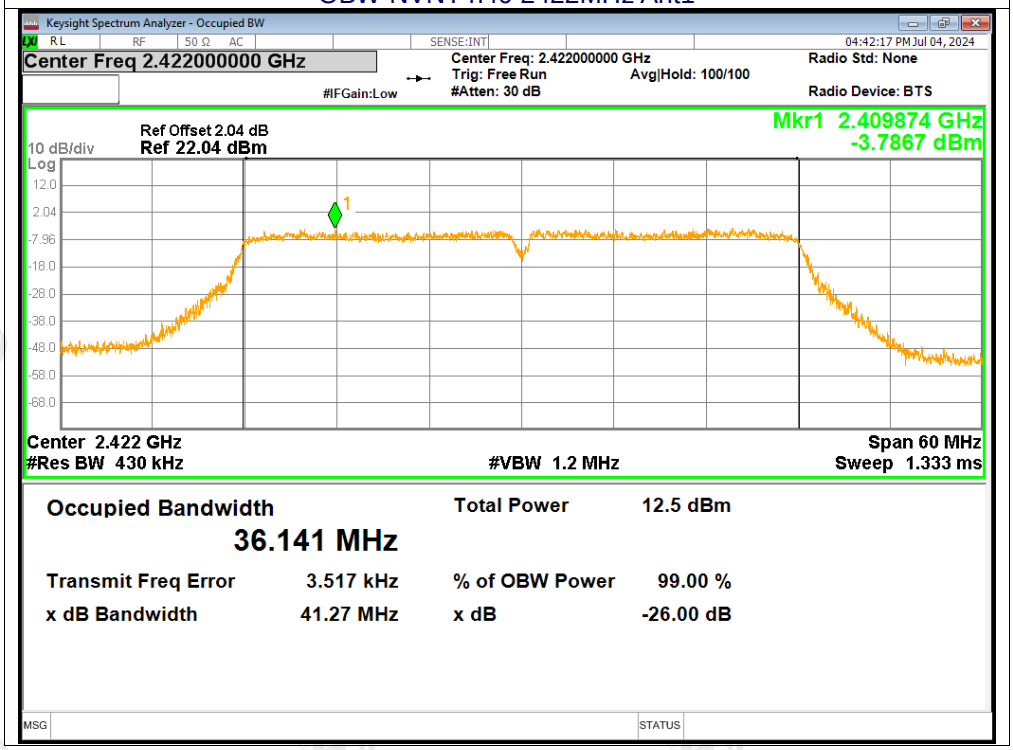
OBW NVNT n20 2437MHz Ant1



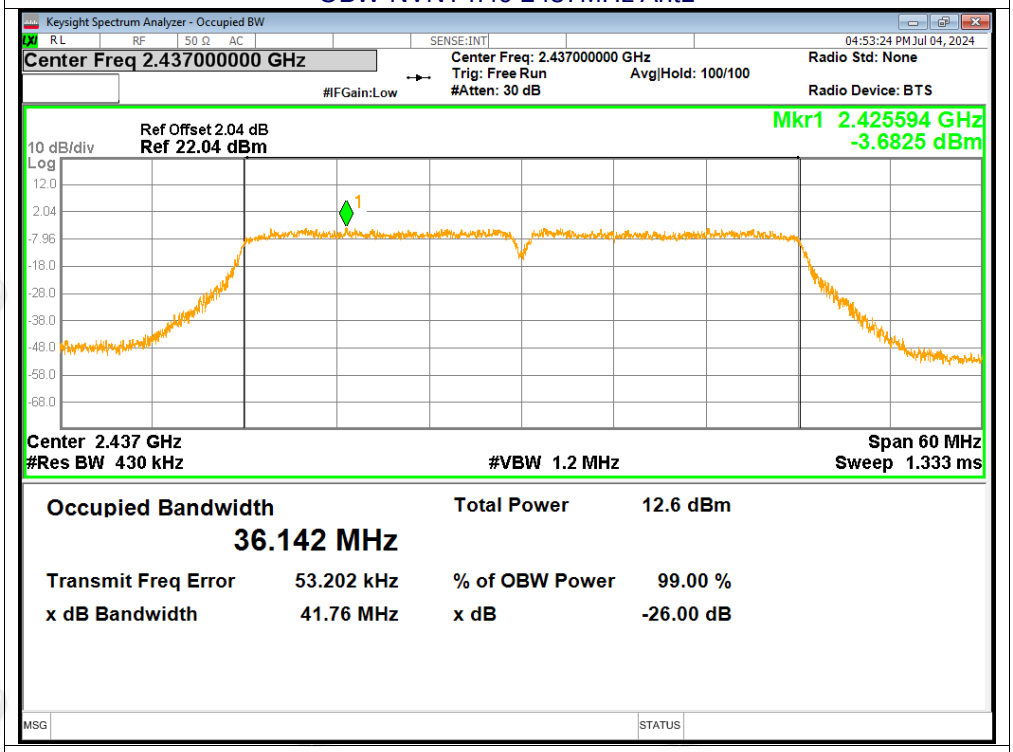
OBW NVNT n20 2462MHz Ant1



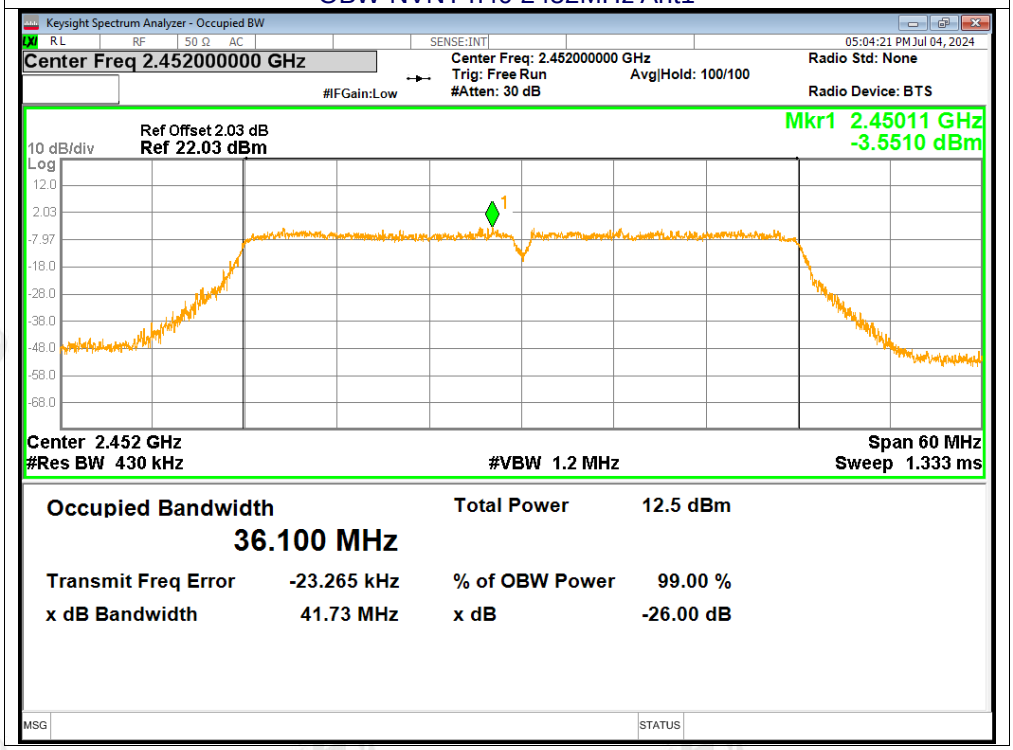
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1

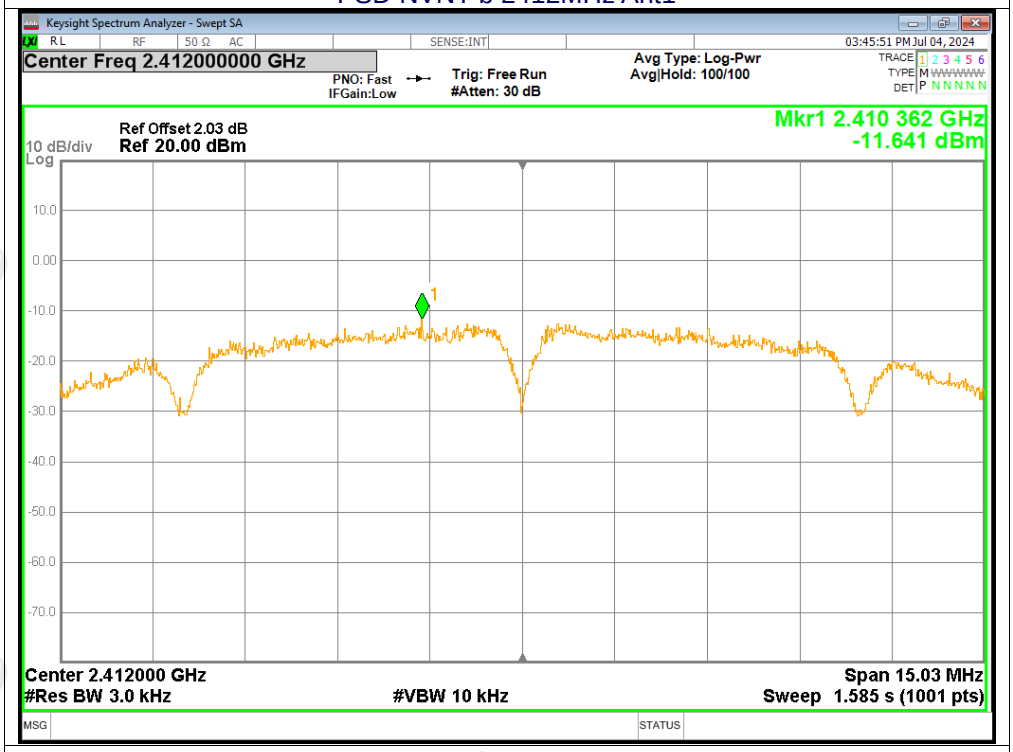


11.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

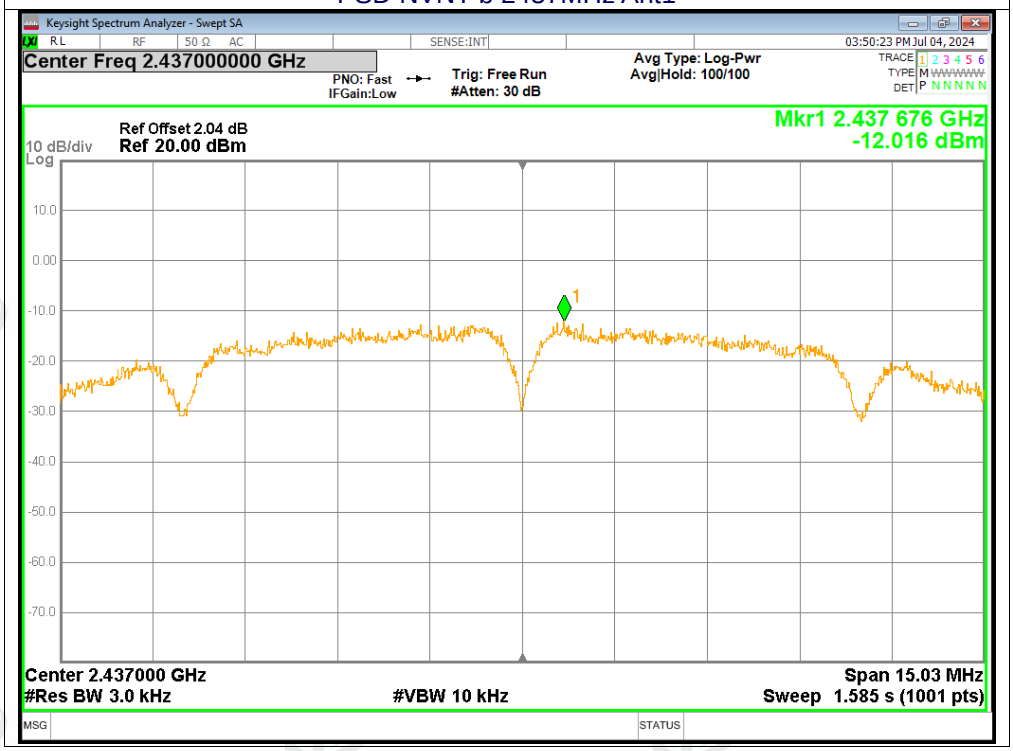
Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	-11.64	8	Pass
b	2437	-12.02	8	Pass
b	2462	-12.45	8	Pass
g	2412	-16.77	8	Pass
g	2437	-16.94	8	Pass
g	2462	-17.96	8	Pass
n20	2412	-18.18	8	Pass
n20	2437	-17.7	8	Pass
n20	2462	-17.91	8	Pass
n40	2422	-20.89	8	Pass
n40	2437	-21.18	8	Pass
n40	2452	-21.19	8	Pass

Test Graphs

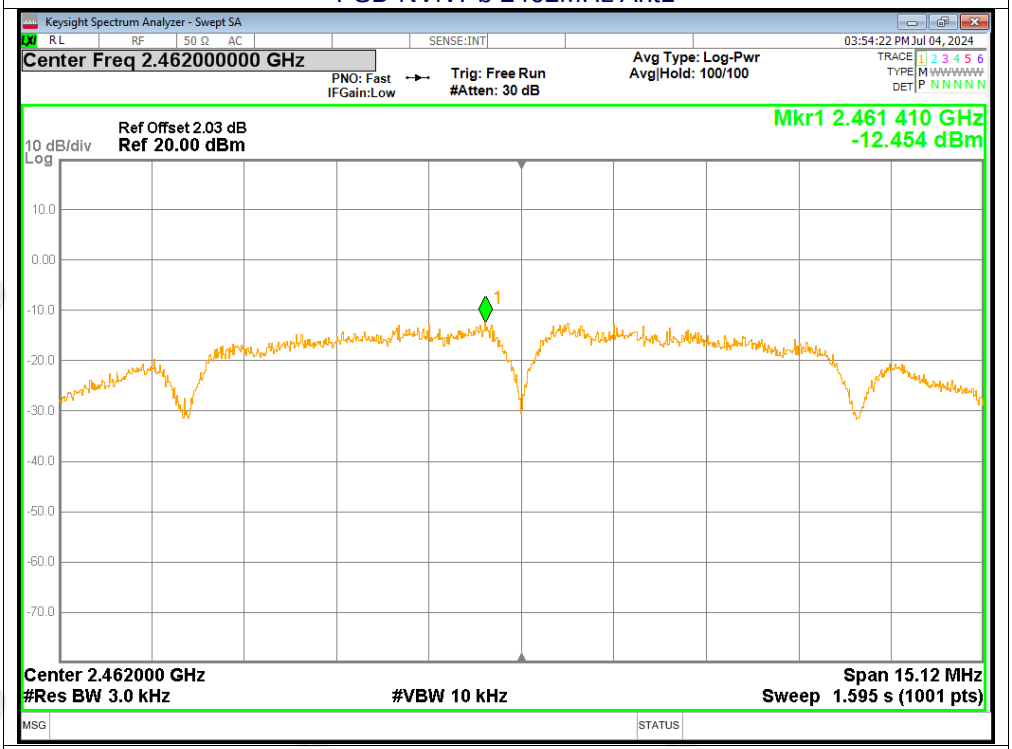
PSD NVNT b 2412MHz Ant1



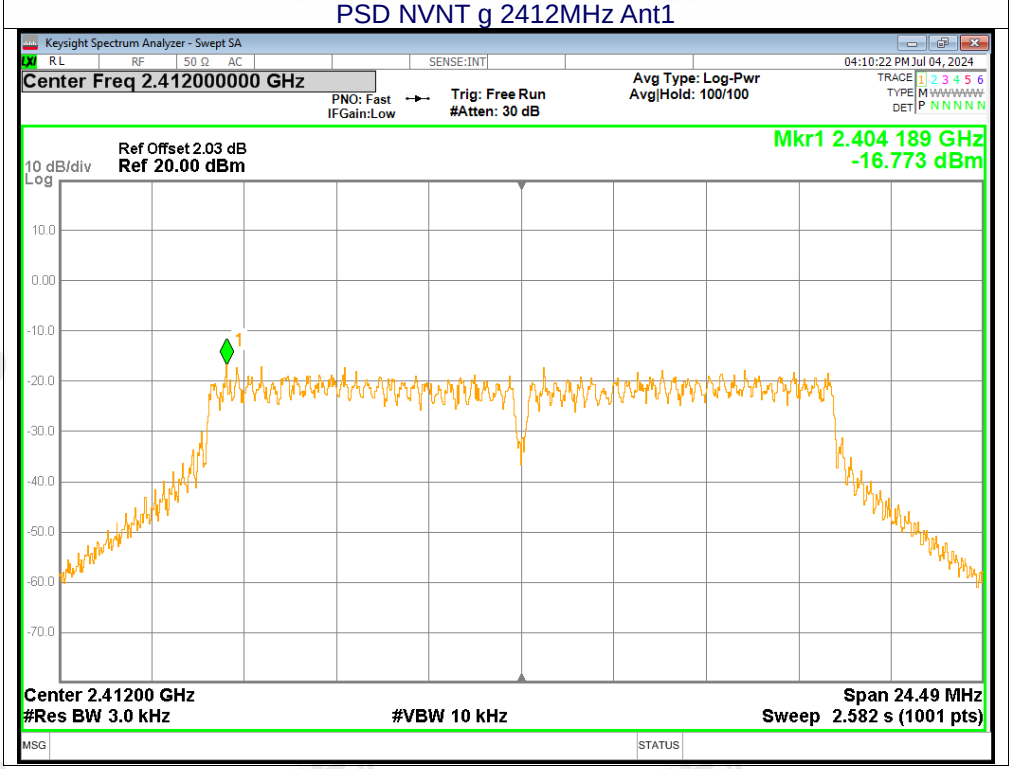
PSD NVNT b 2437MHz Ant1



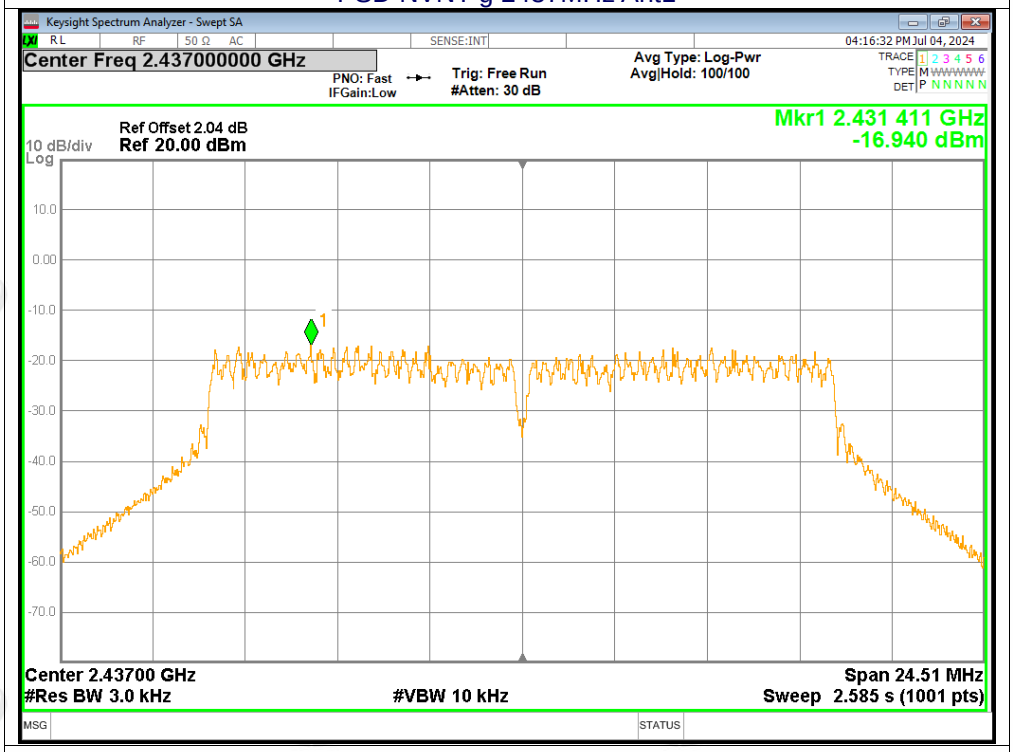
PSD NVNT b 2462MHz Ant1



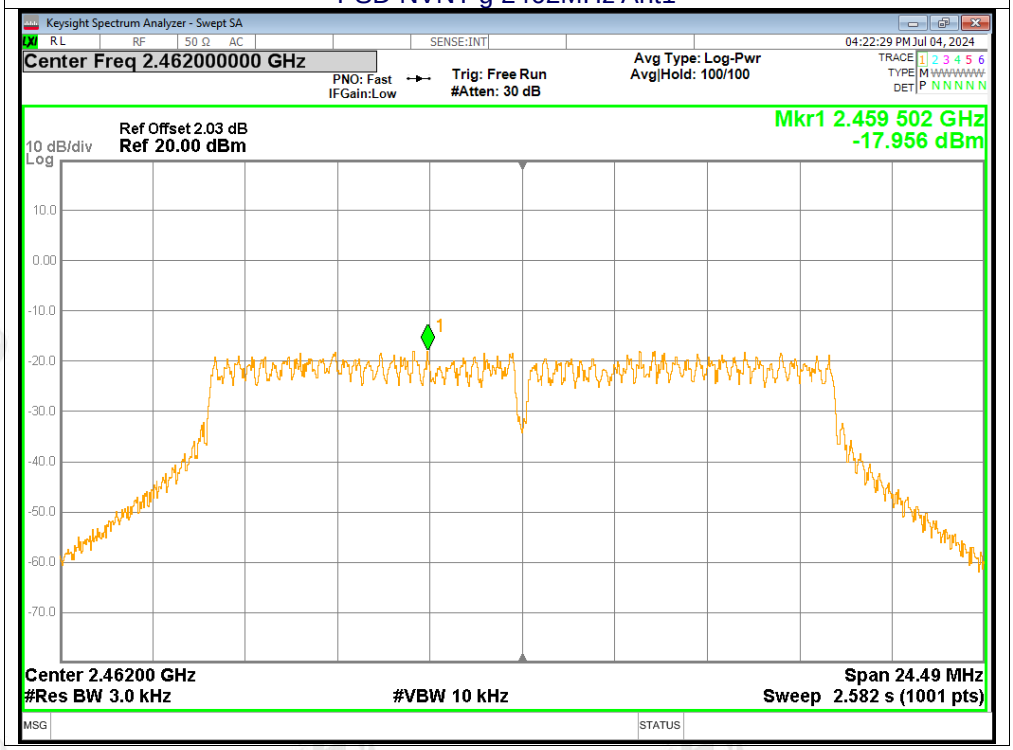
PSD NVNT g 2412MHz Ant1



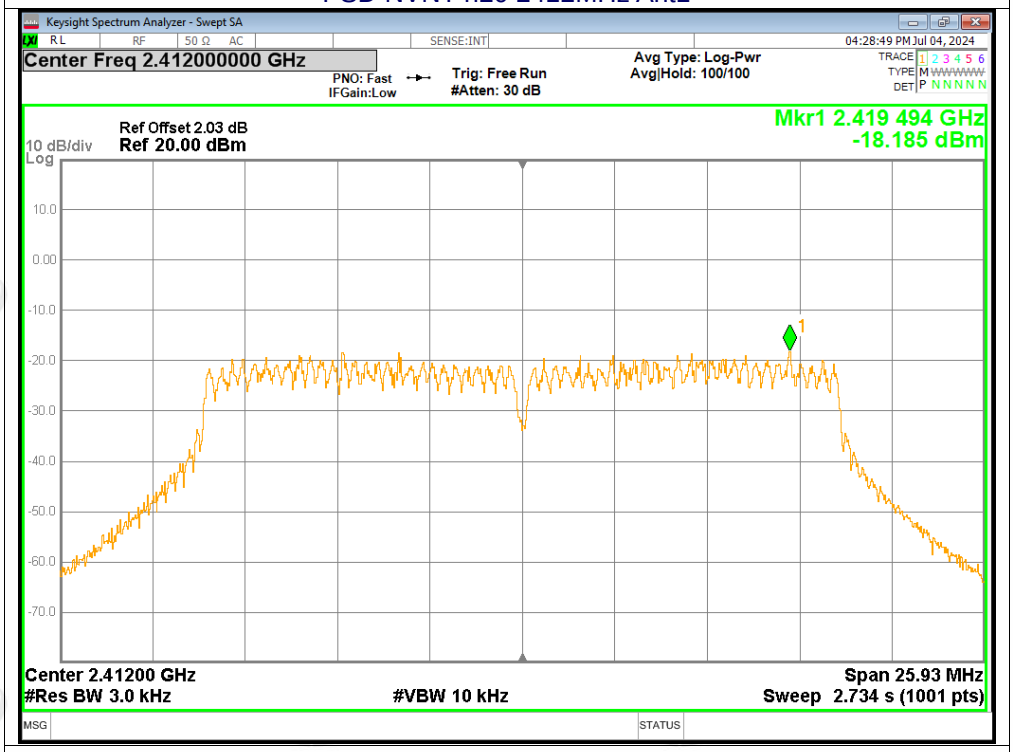
PSD NVNT g 2437MHz Ant1



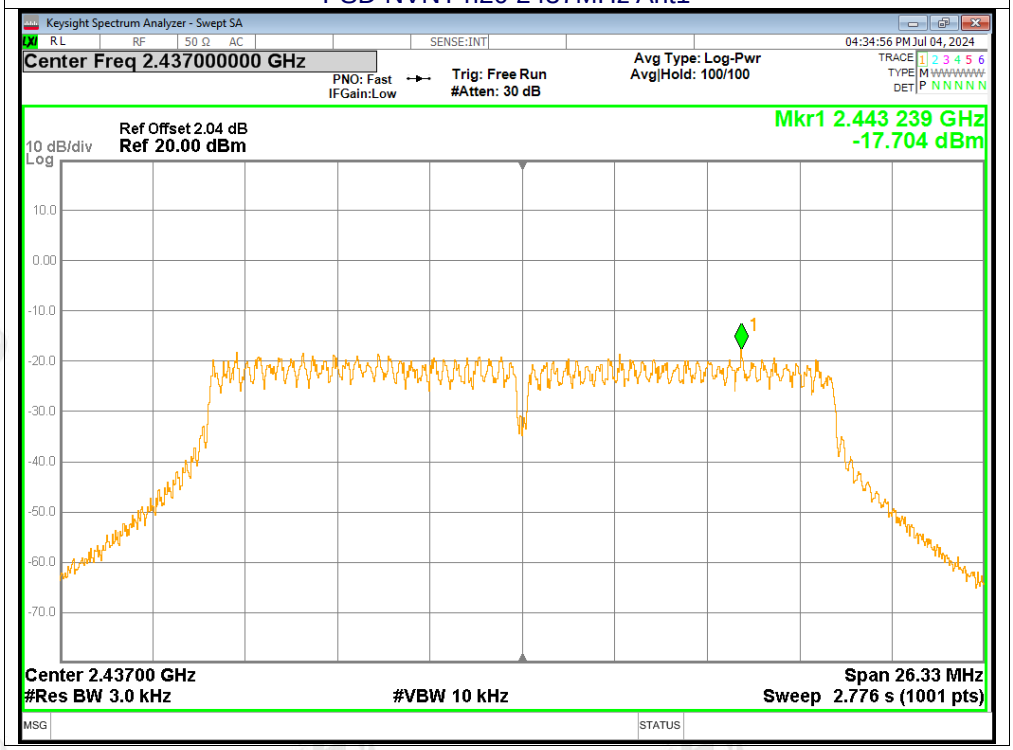
PSD NVNT g 2462MHz Ant1



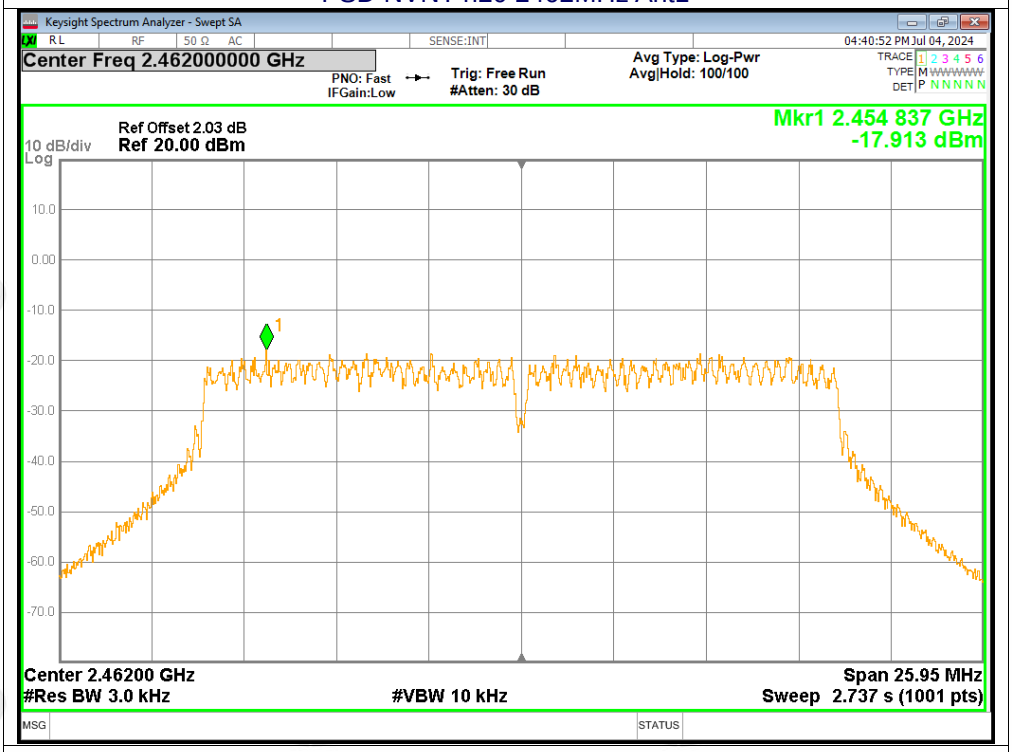
PSD NVNT n20 2412MHz Ant1



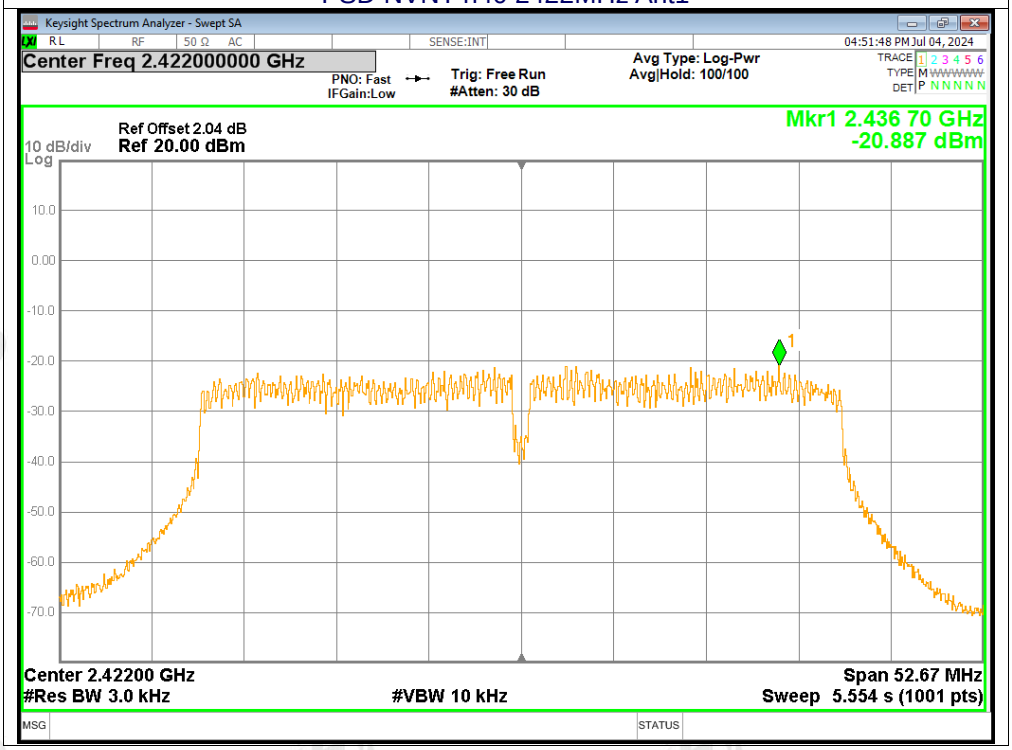
PSD NVNT n20 2437MHz Ant1



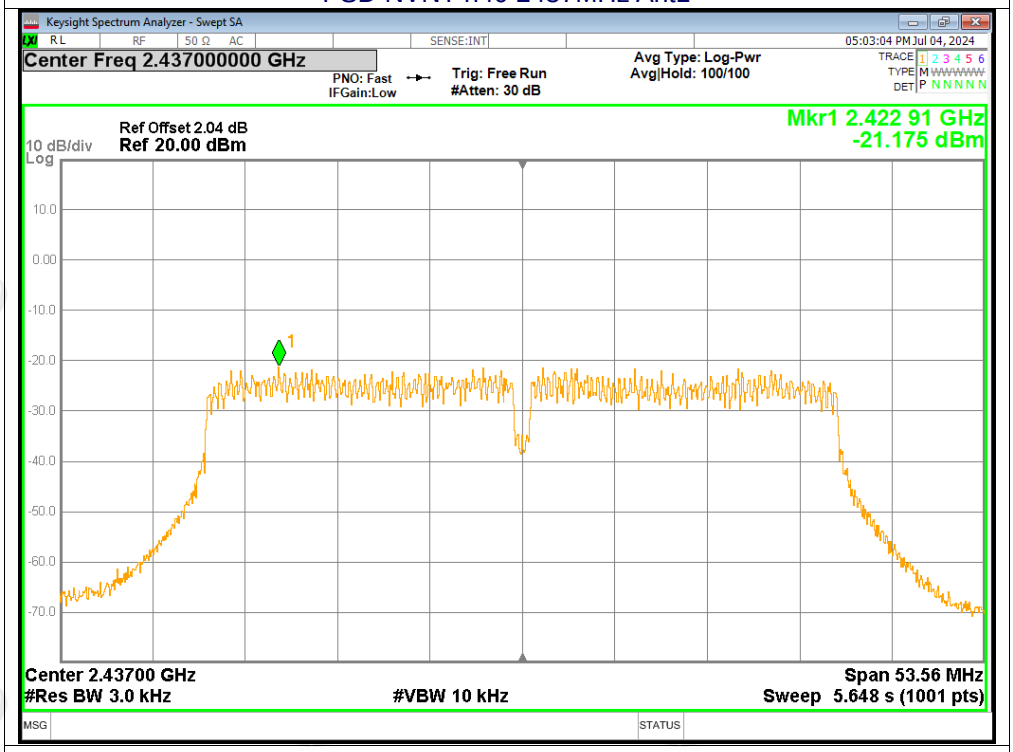
PSD NVNT n20 2462MHz Ant1



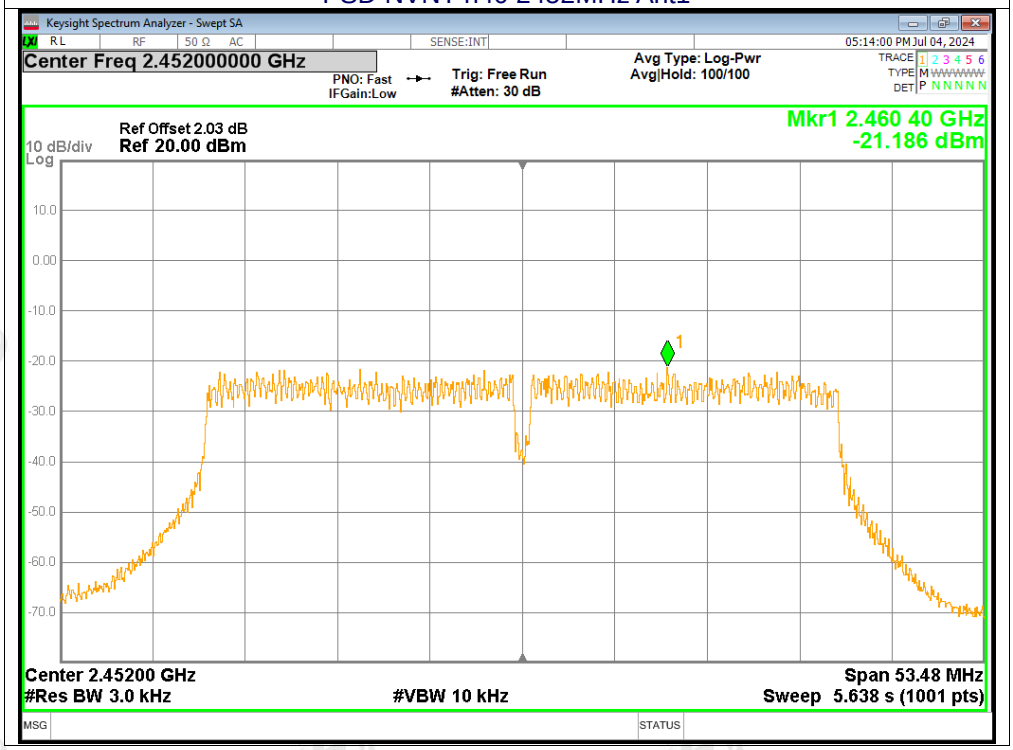
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

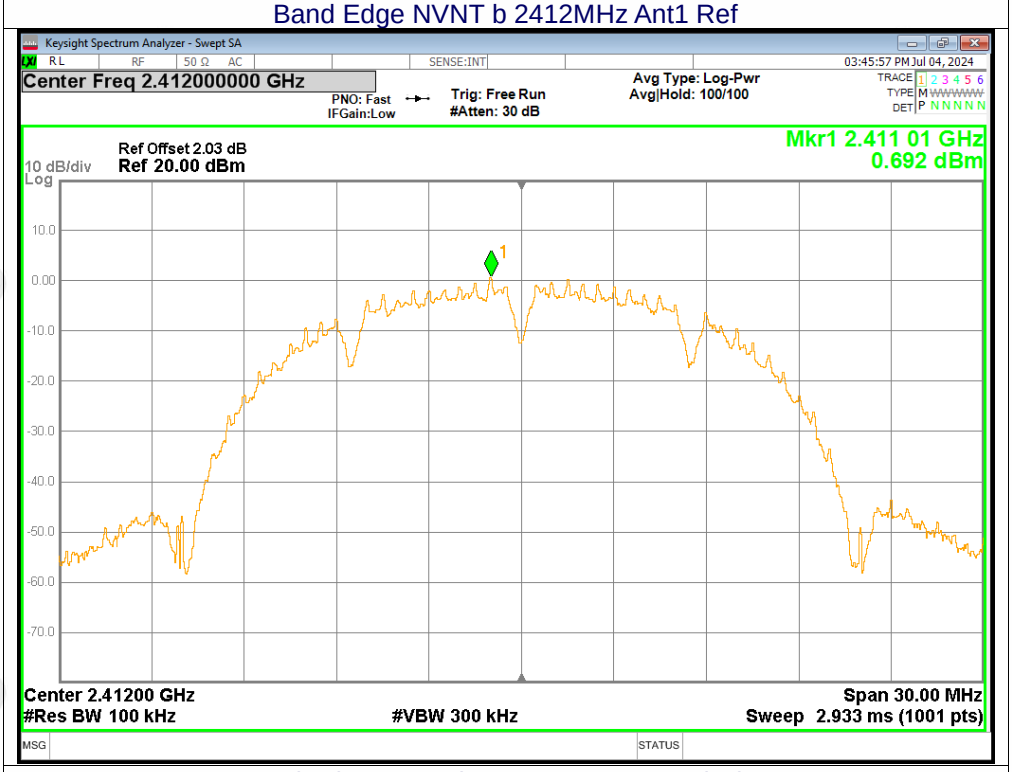


11.6 BAND EDGE

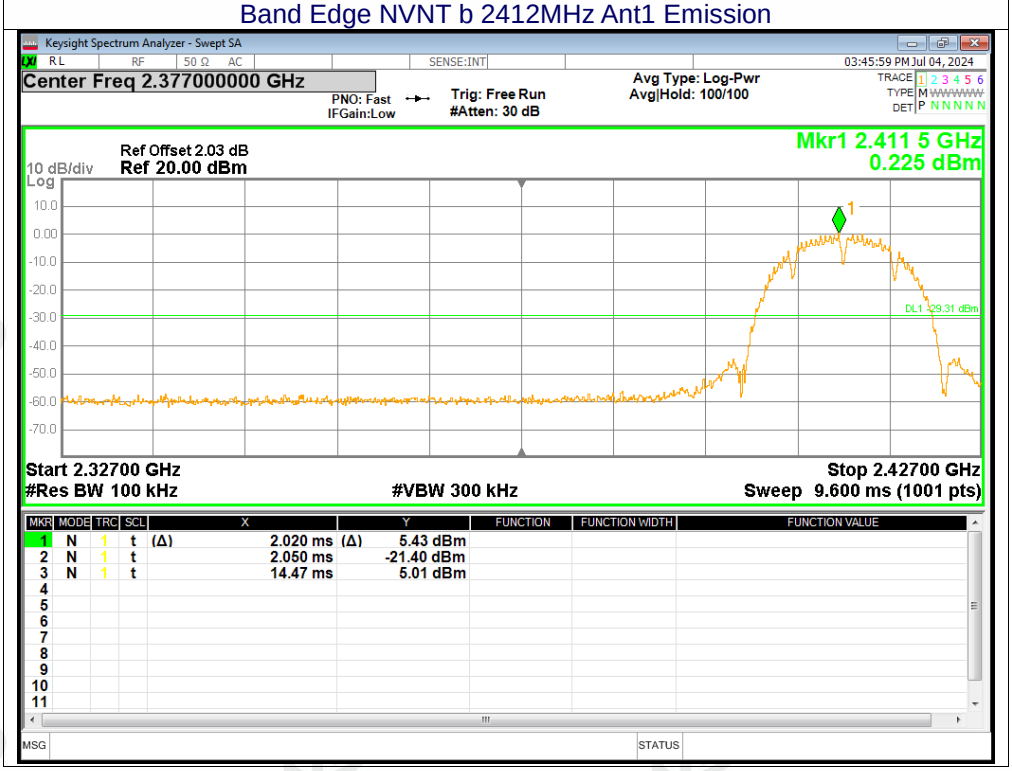
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-45.38	-20	Pass
b	2462	-57	-20	Pass
g	2412	-38.99	-20	Pass
g	2462	-51.53	-20	Pass
n20	2412	-38.92	-20	Pass
n20	2462	-51.81	-20	Pass
n40	2422	-35.63	-20	Pass
n40	2452	-48.6	-20	Pass

Test Graphs

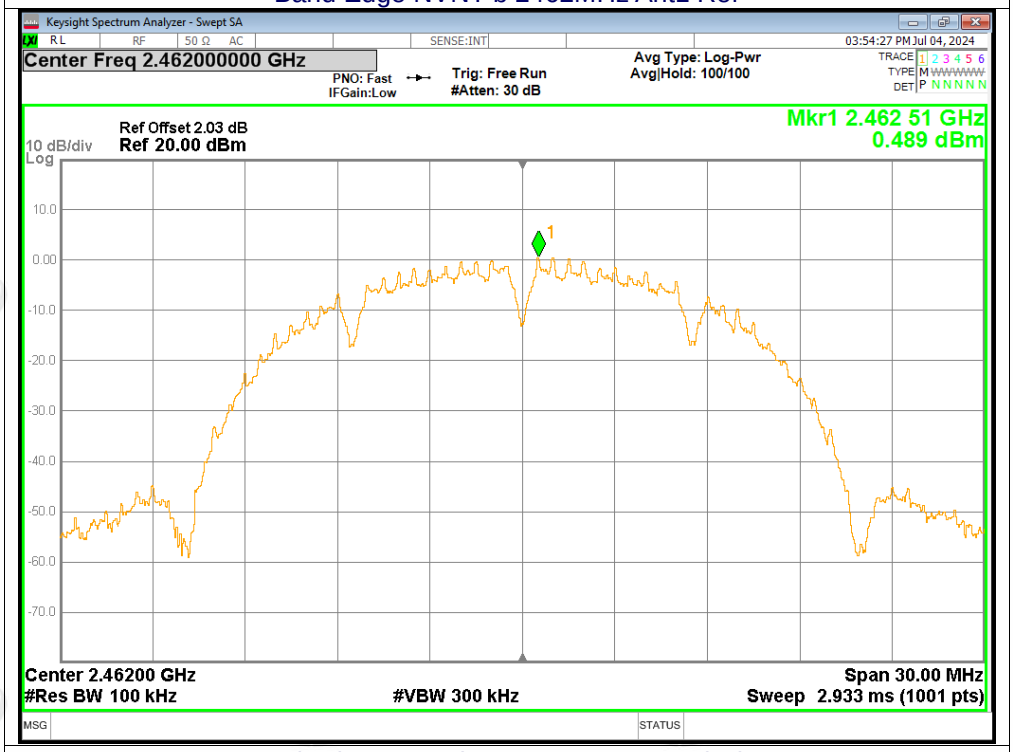
Band Edge NVNT b 2412MHz Ant1 Ref



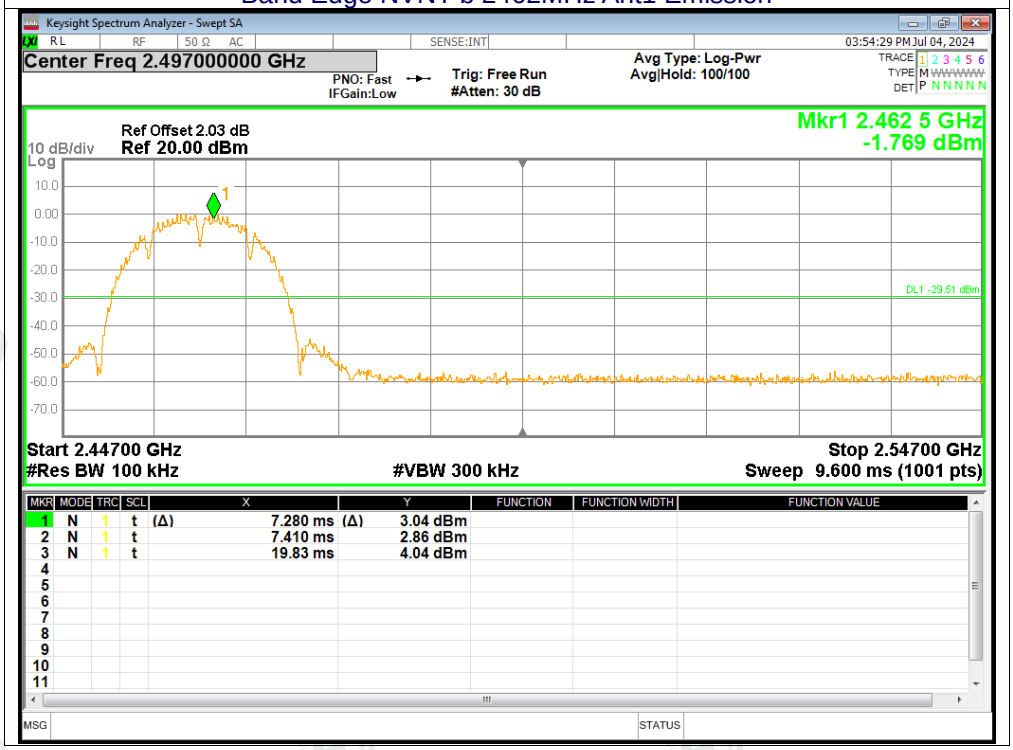
Band Edge NVNT b 2412MHz Ant1 Emission



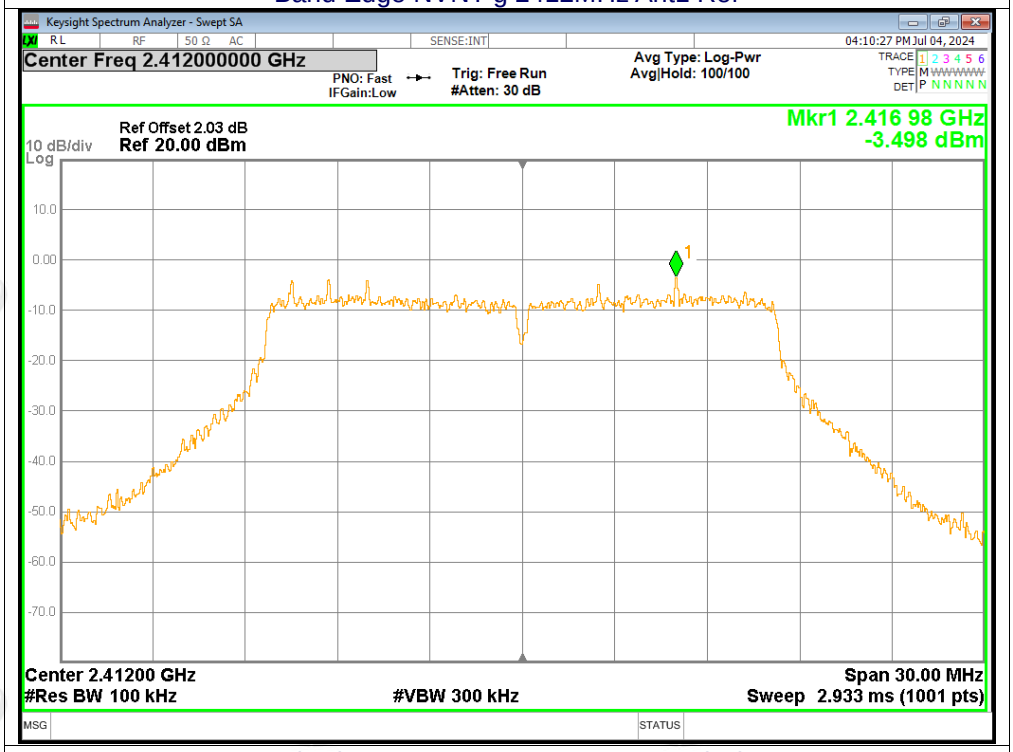
Band Edge NVNT b 2462MHz Ant1 Ref



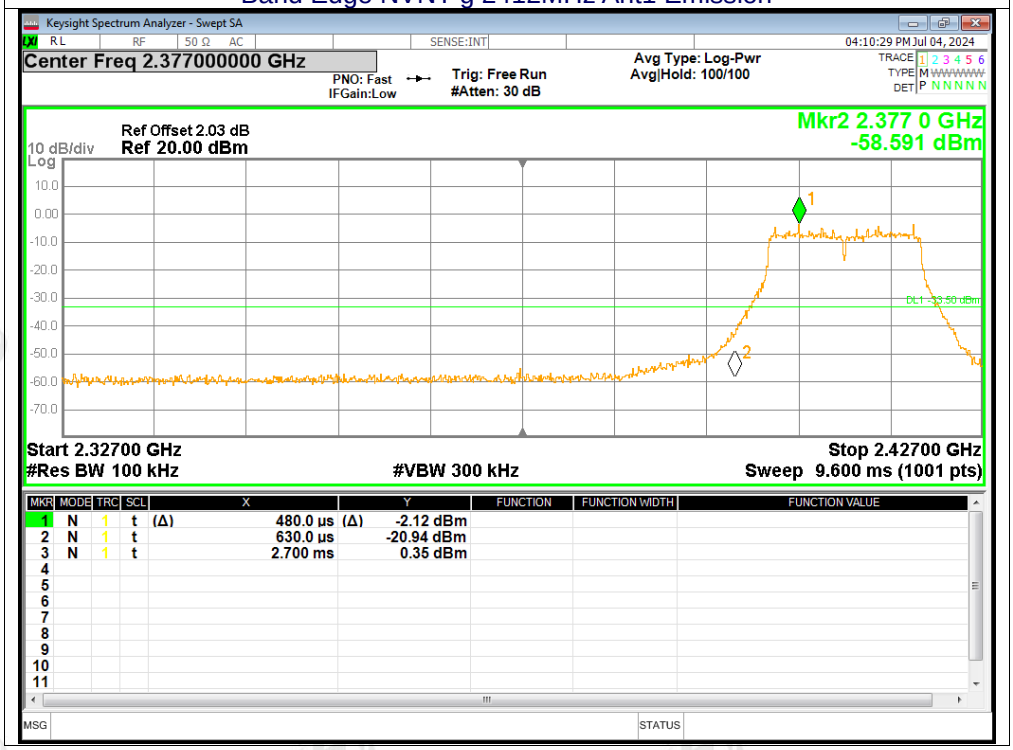
Band Edge NVNT b 2462MHz Ant1 Emission



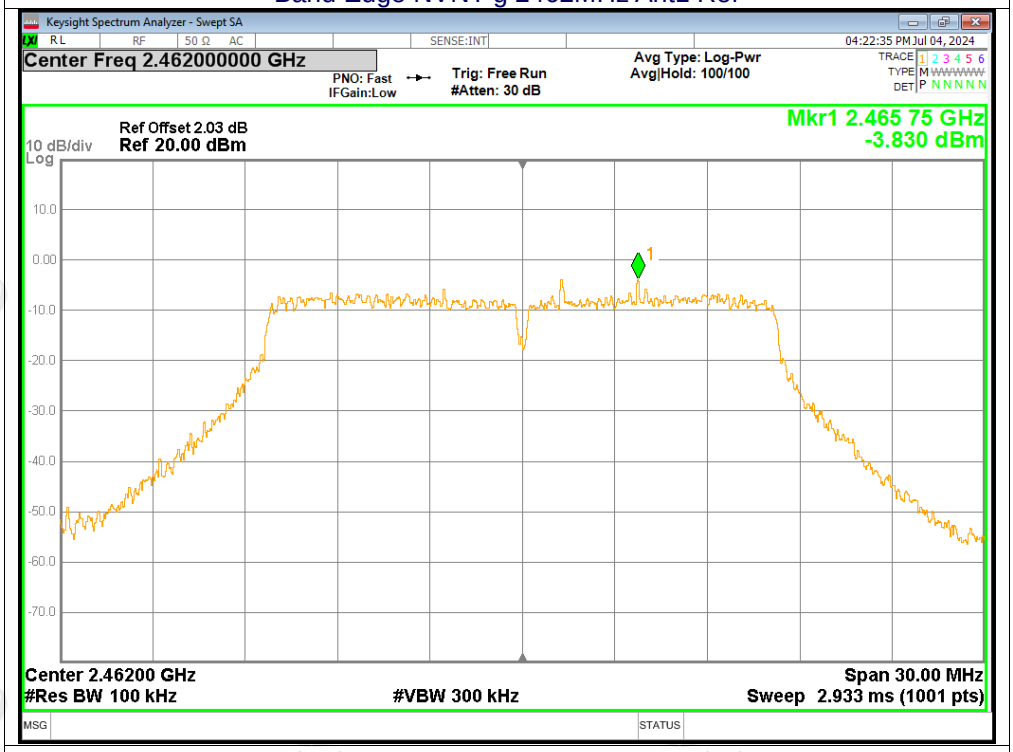
Band Edge NVNT g 2412MHz Ant1 Ref



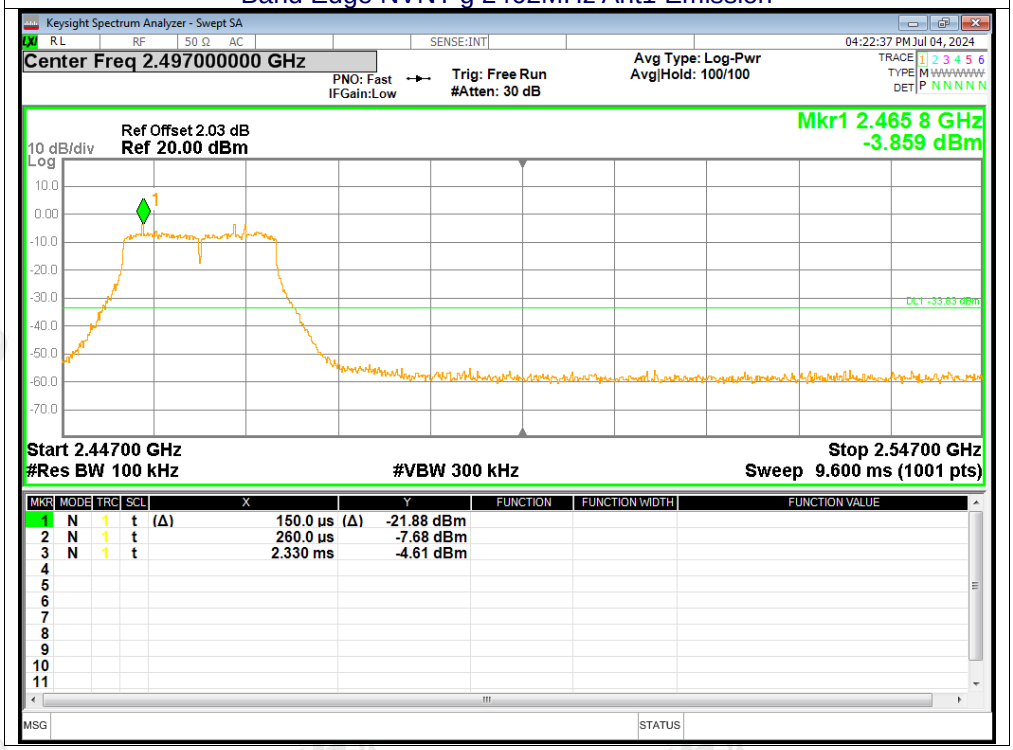
Band Edge NVNT g 2412MHz Ant1 Emission



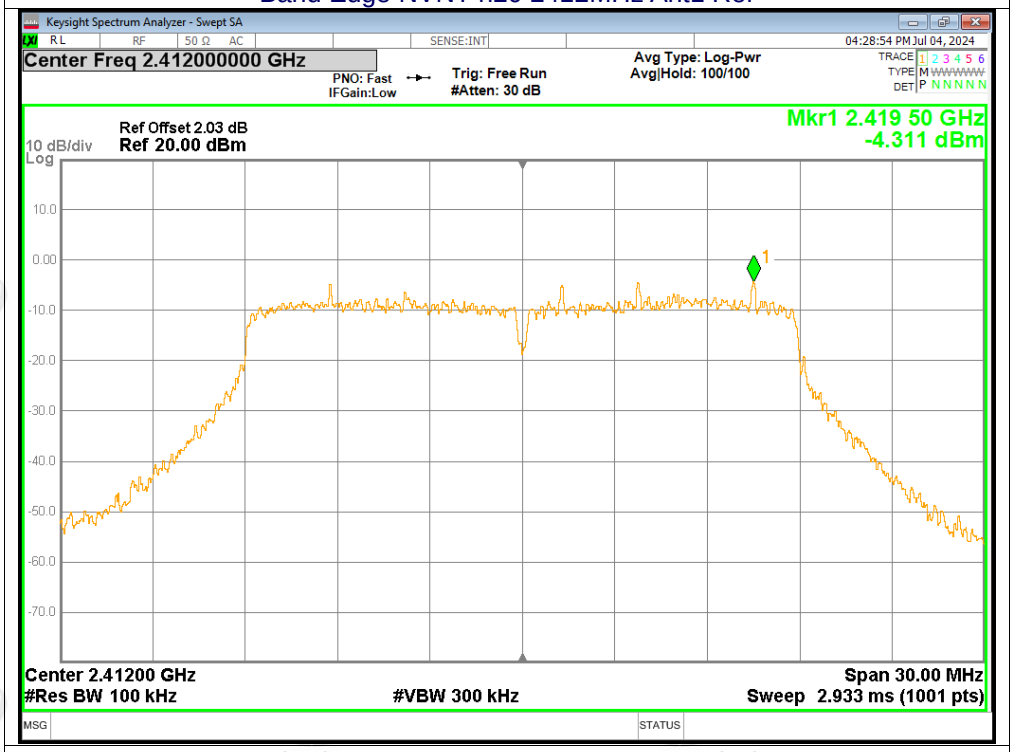
Band Edge NVNT g 2462MHz Ant1 Ref



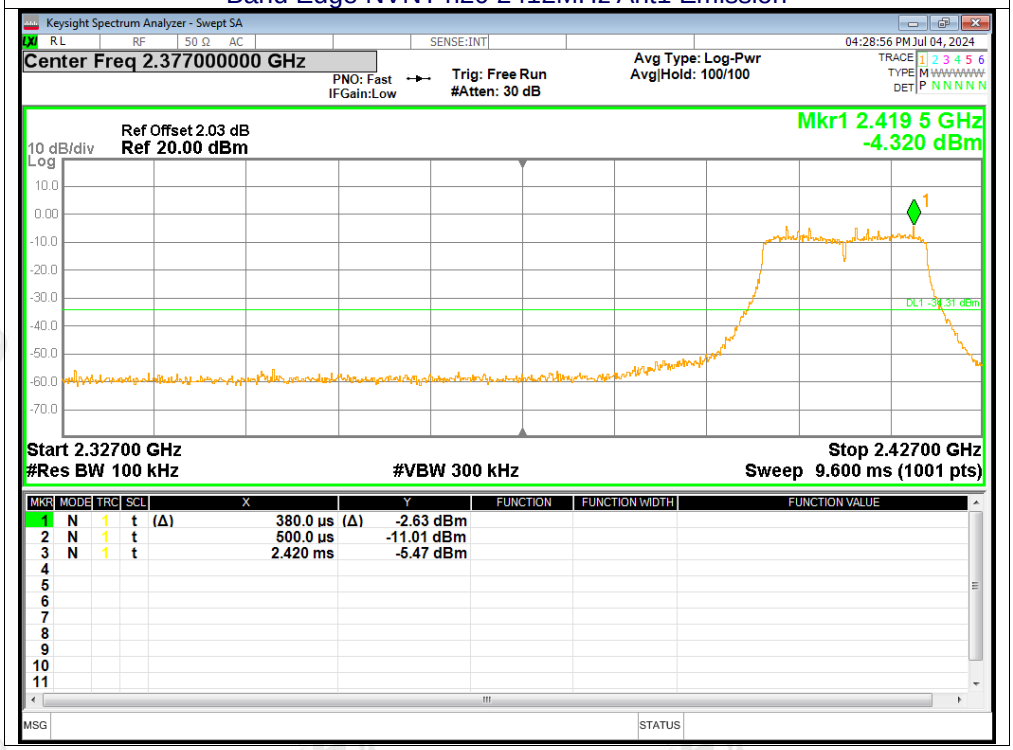
Band Edge NVNT g 2462MHz Ant1 Emission



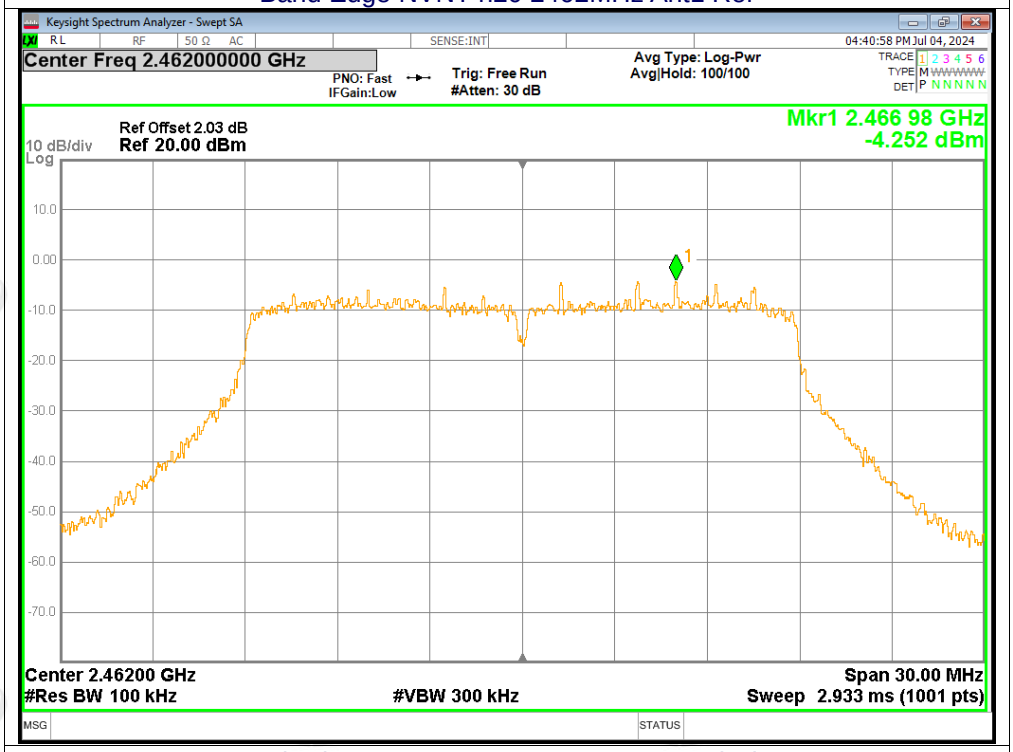
Band Edge NVNT n20 2412MHz Ant1 Ref



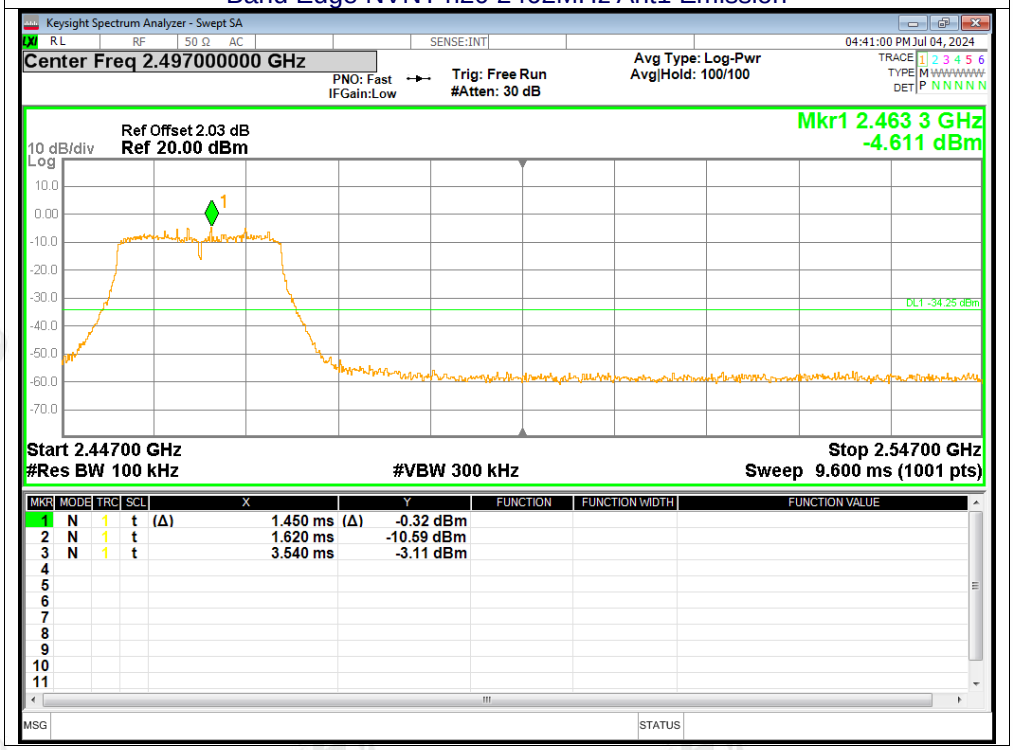
Band Edge NVNT n20 2412MHz Ant1 Emission



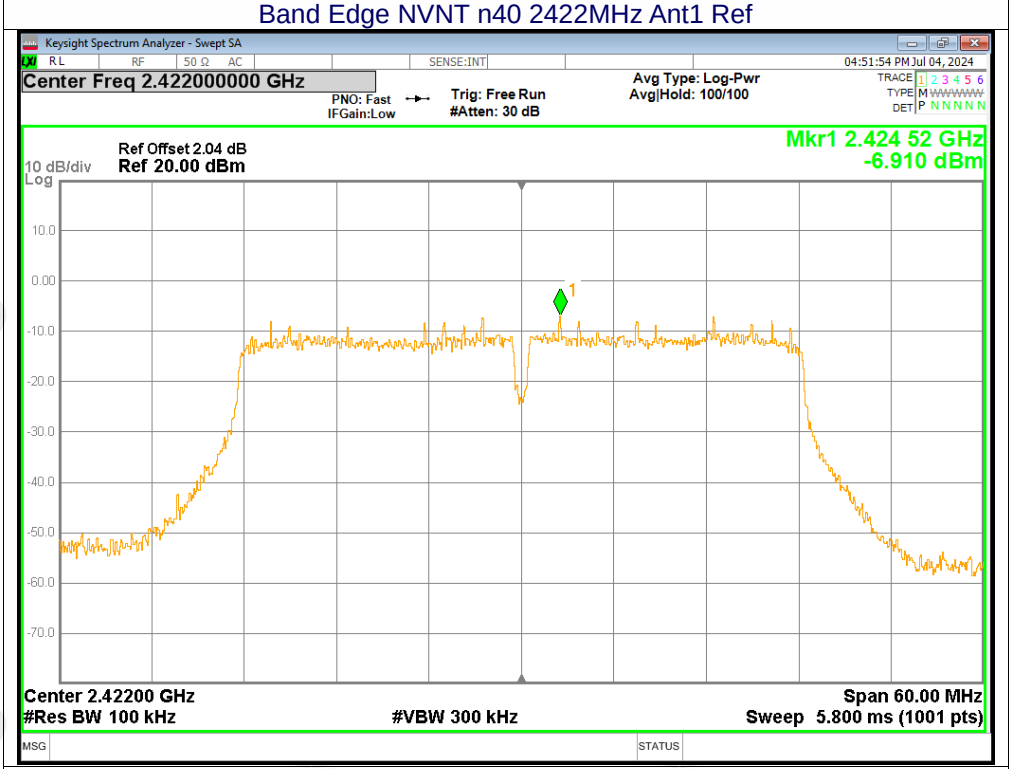
Band Edge NVNT n20 2462MHz Ant1 Ref



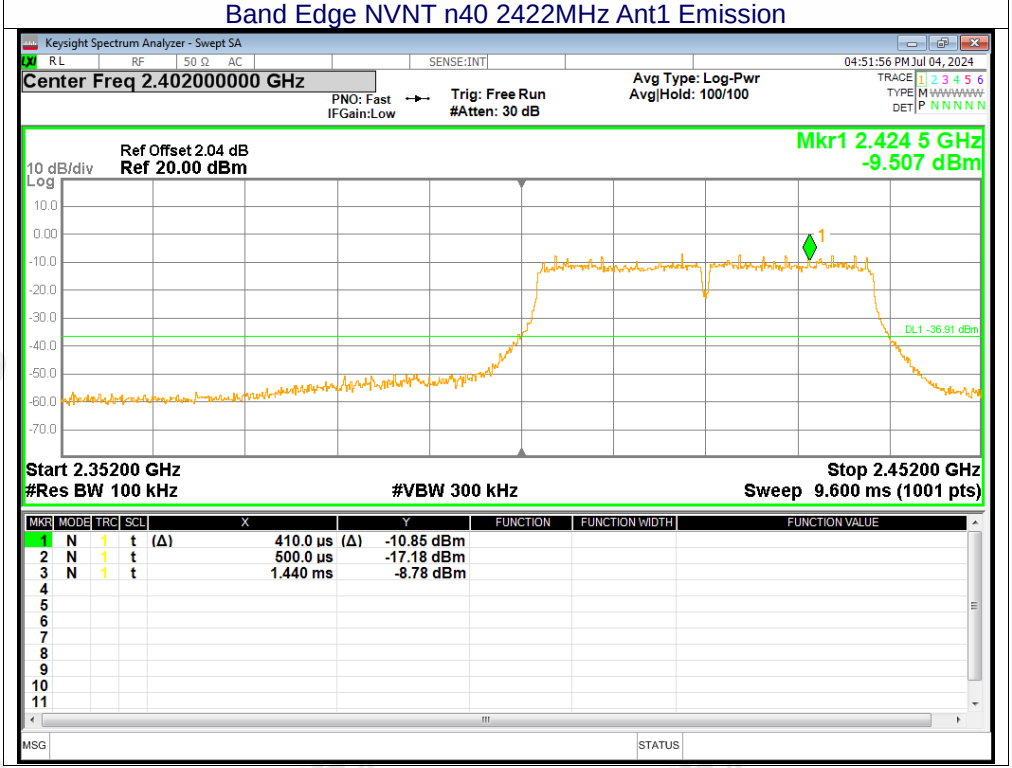
Band Edge NVNT n20 2462MHz Ant1 Emission



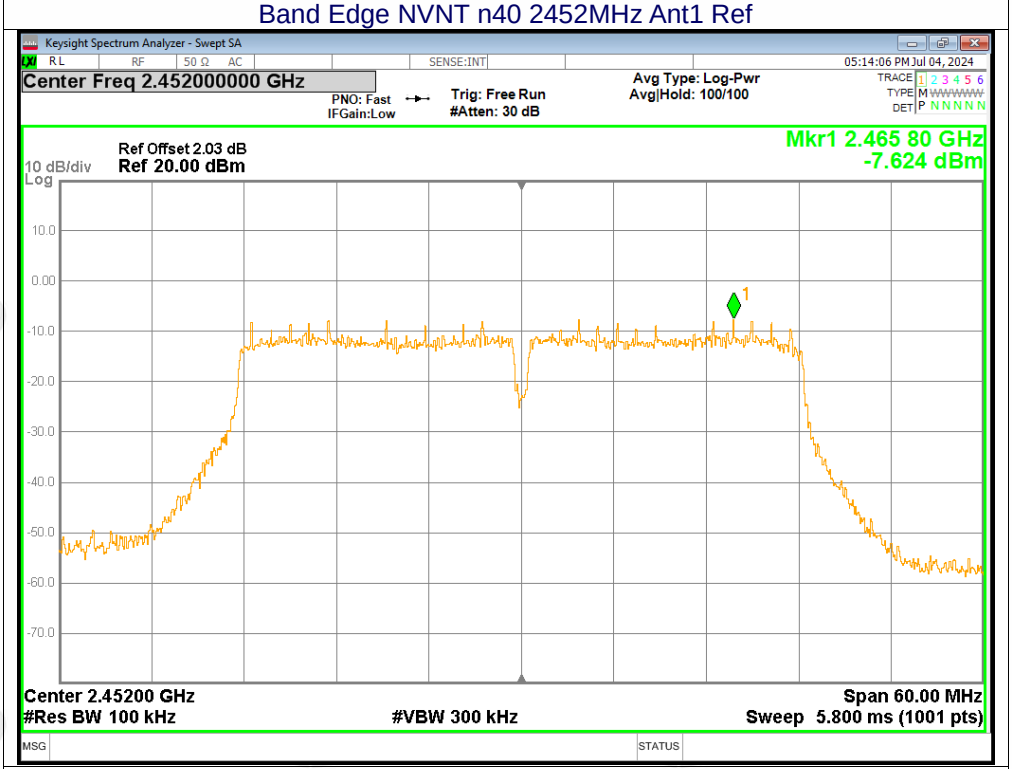
Band Edge NVNT n40 2422MHz Ant1 Ref



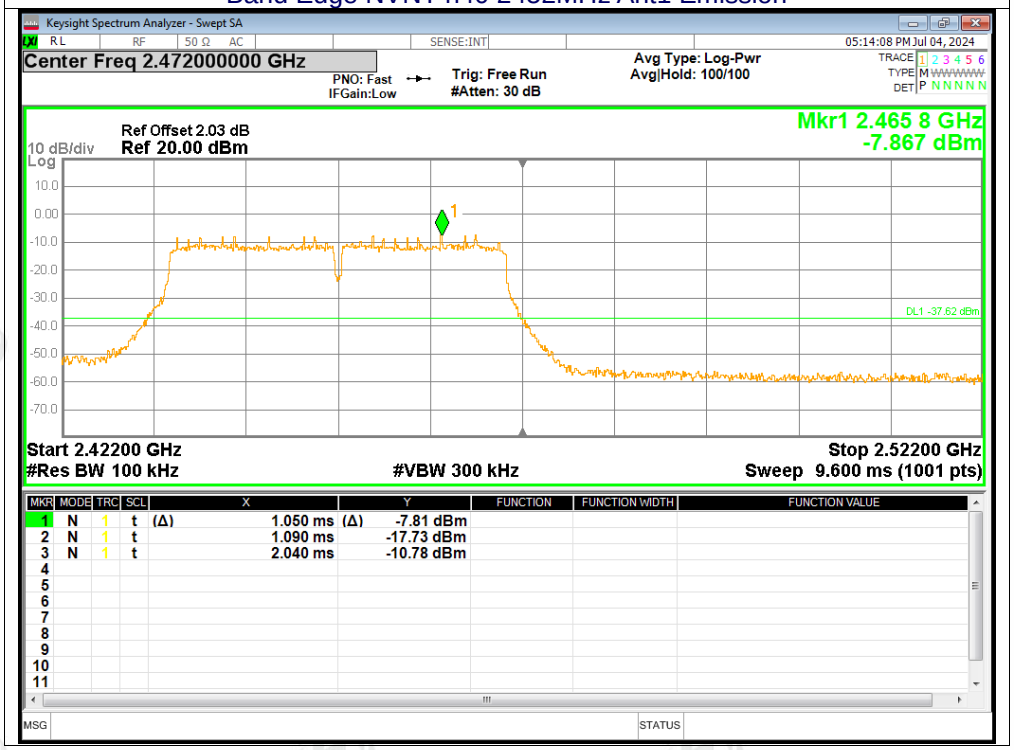
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

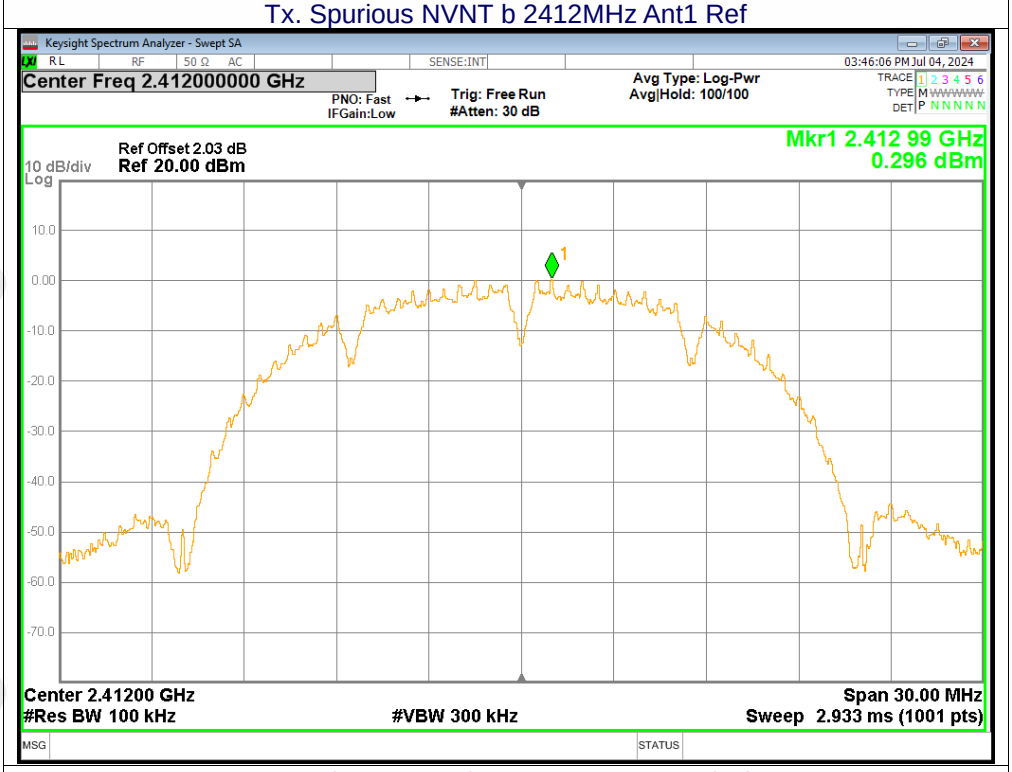


11.7 CONDUCTED RF SPURIOUS EMISSION

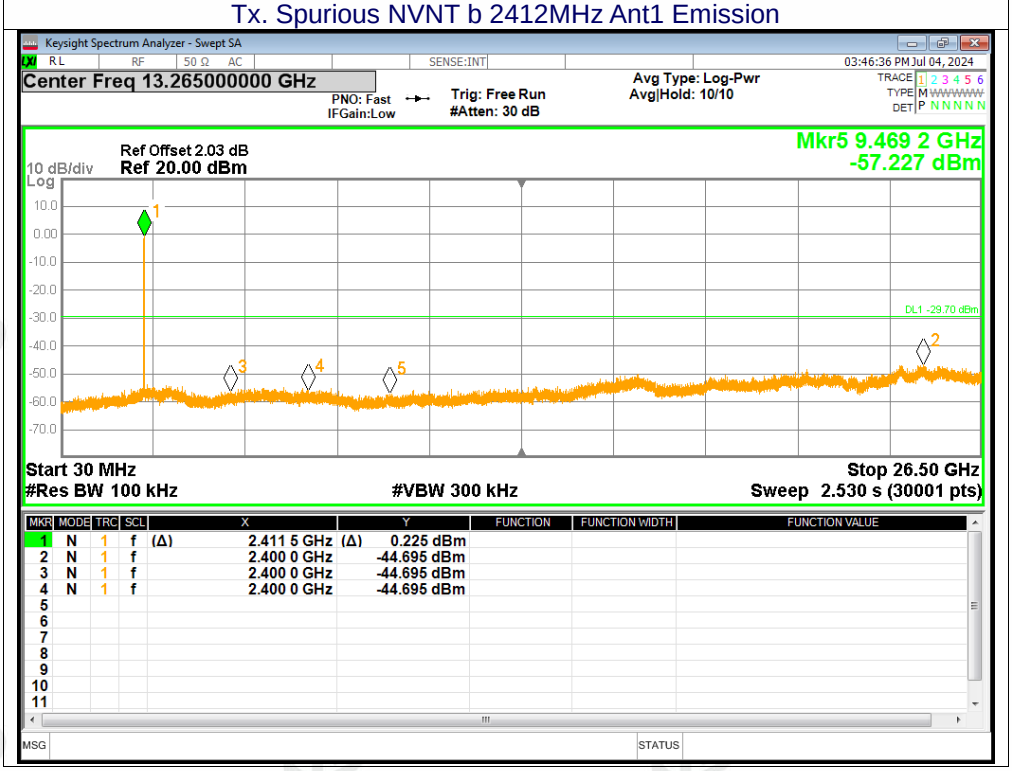
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-47.23	-20	Pass
b	2437	-47.03	-20	Pass
b	2462	-46.92	-20	Pass
g	2412	-42.29	-20	Pass
g	2437	-42.72	-20	Pass
g	2462	-41.98	-20	Pass
n20	2412	-42.57	-20	Pass
n20	2437	-41.92	-20	Pass
n20	2462	-40.86	-20	Pass
n40	2422	-39.44	-20	Pass
n40	1437	-39.68	-20	Pass
n40	2452	-38.56	-20	Pass

Test Graphs

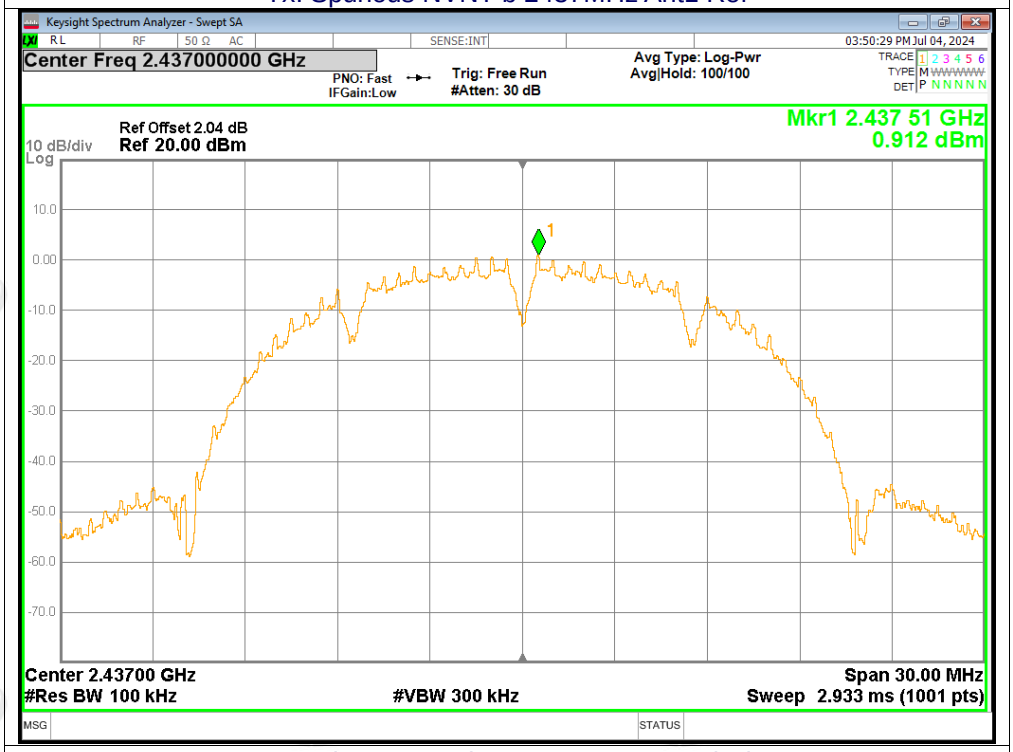
Tx. Spurious NVNT b 2412MHz Ant1 Ref



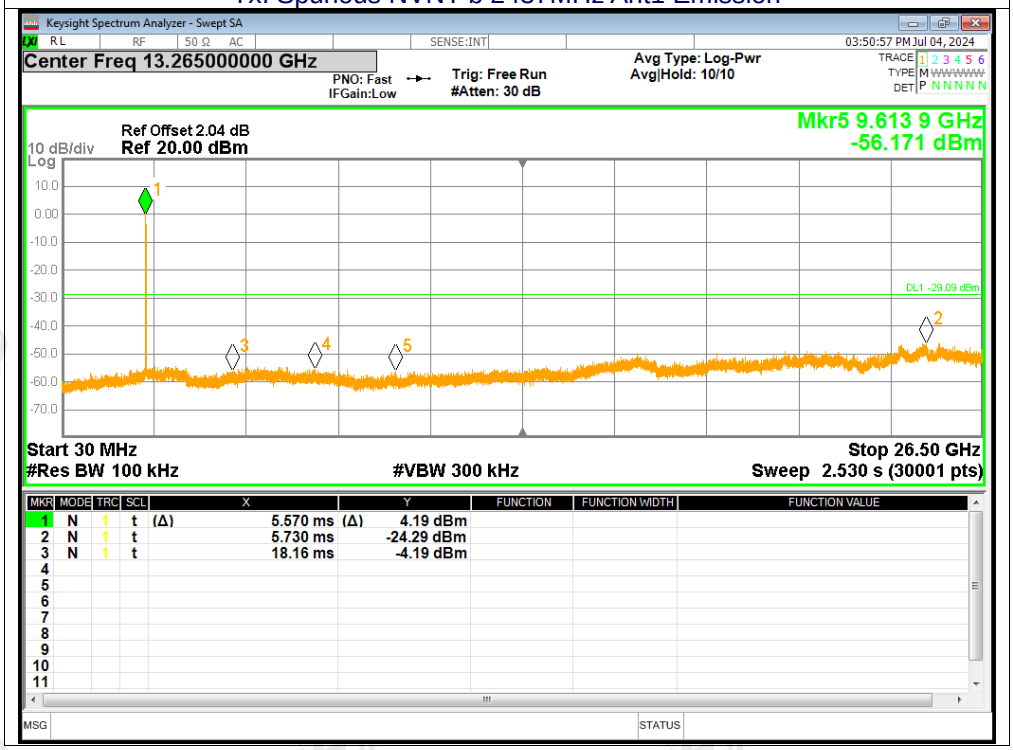
Tx. Spurious NVNT b 2412MHz Ant1 Emission



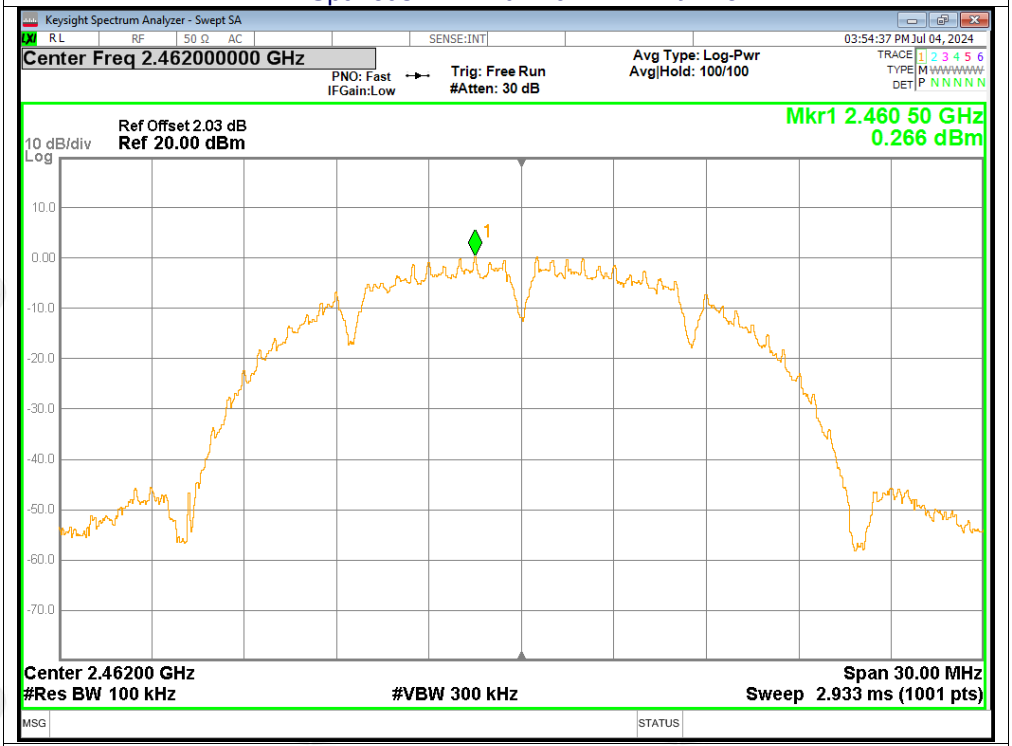
Tx. Spurious NVNT b 2437MHz Ant1 Ref



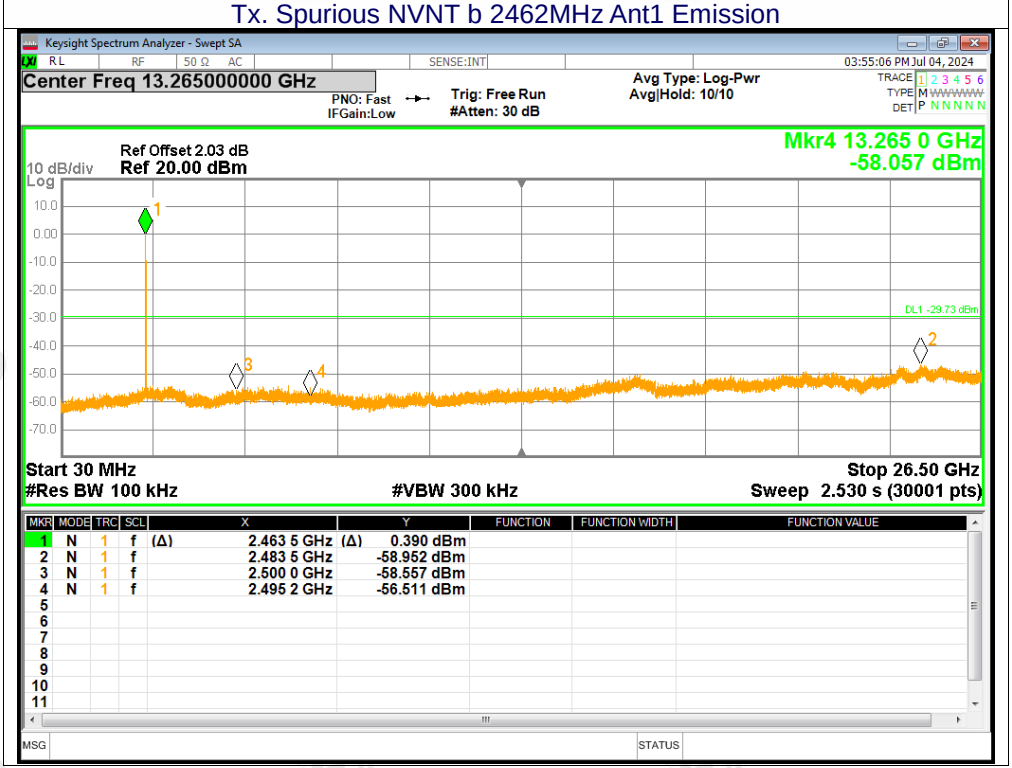
Tx. Spurious NVNT b 2437MHz Ant1 Emission



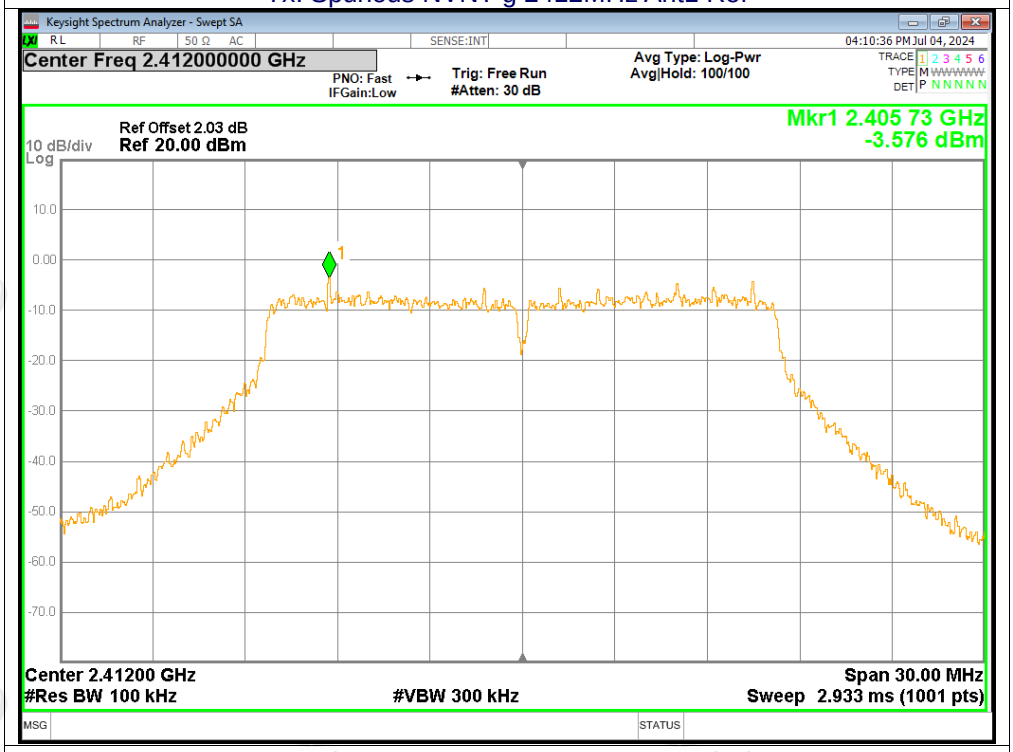
Tx. Spurious NVNT b 2462MHz Ant1 Ref



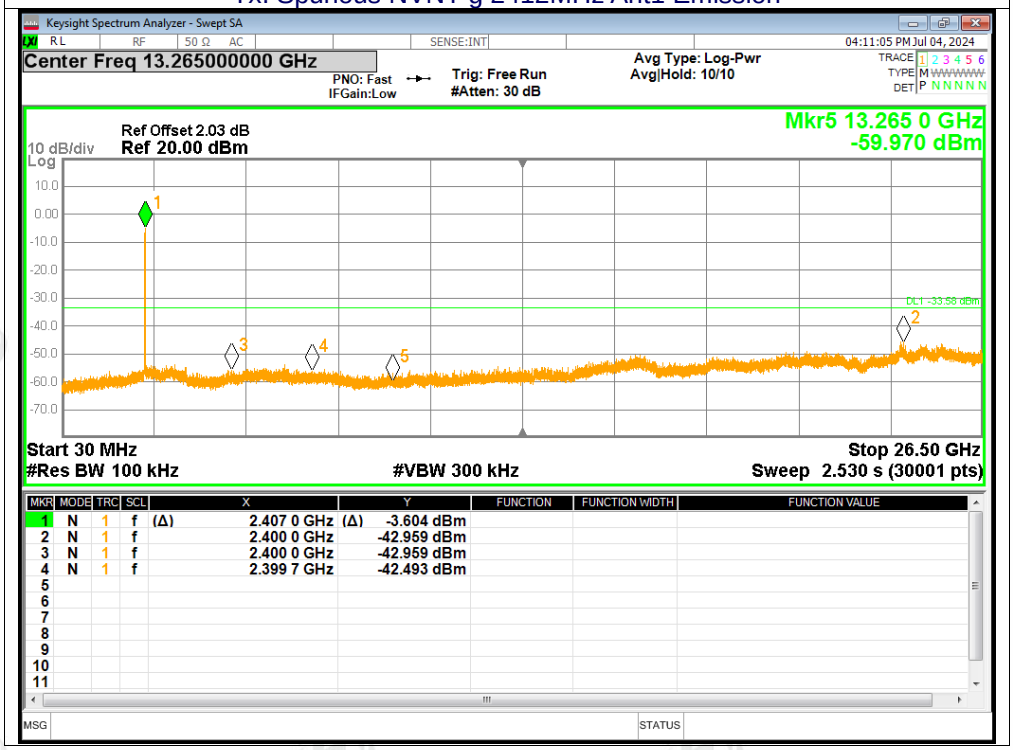
Tx. Spurious NVNT b 2462MHz Ant1 Emission



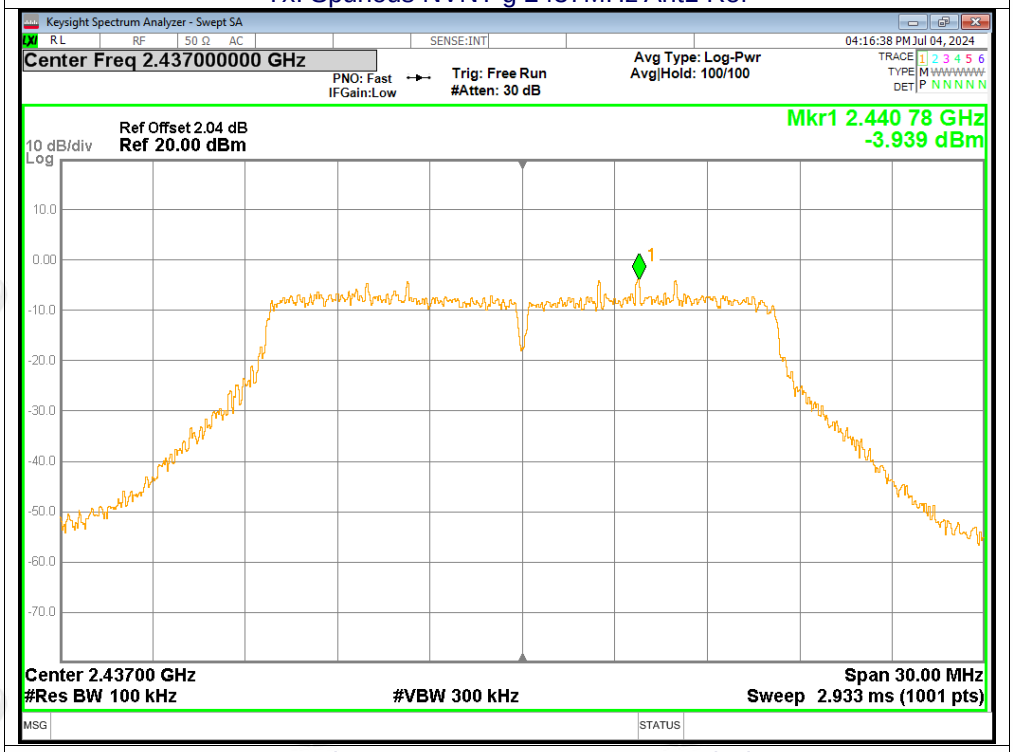
Tx. Spurious NVNT g 2412MHz Ant1 Ref



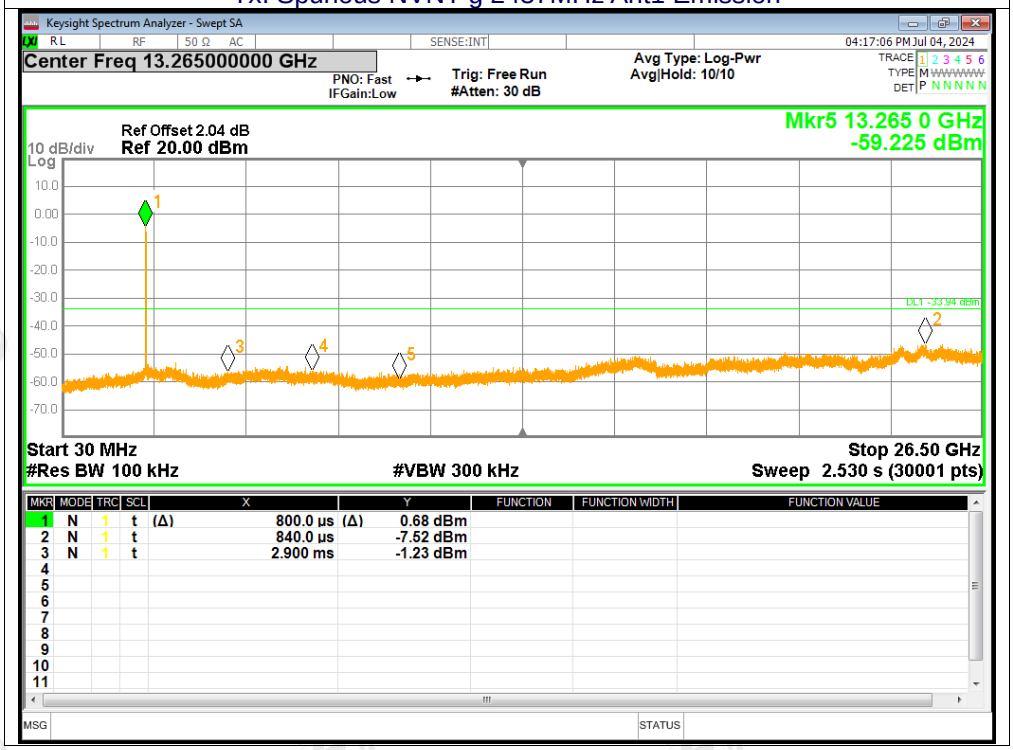
Tx. Spurious NVNT g 2412MHz Ant1 Emission



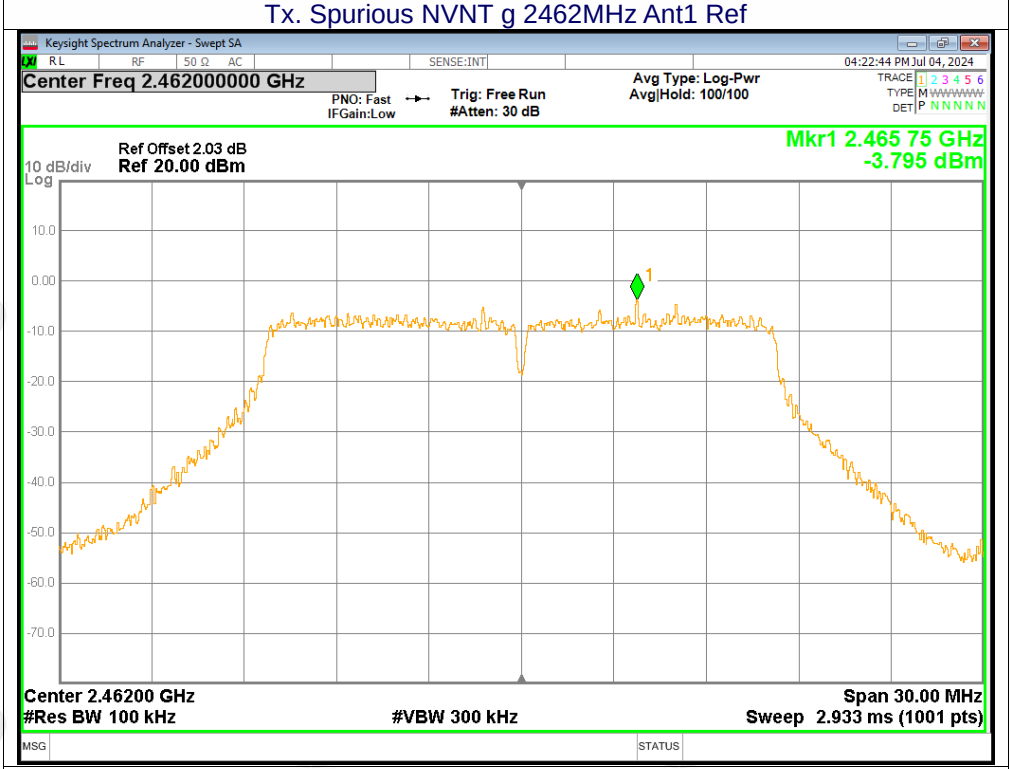
Tx. Spurious NVNT g 2437MHz Ant1 Ref



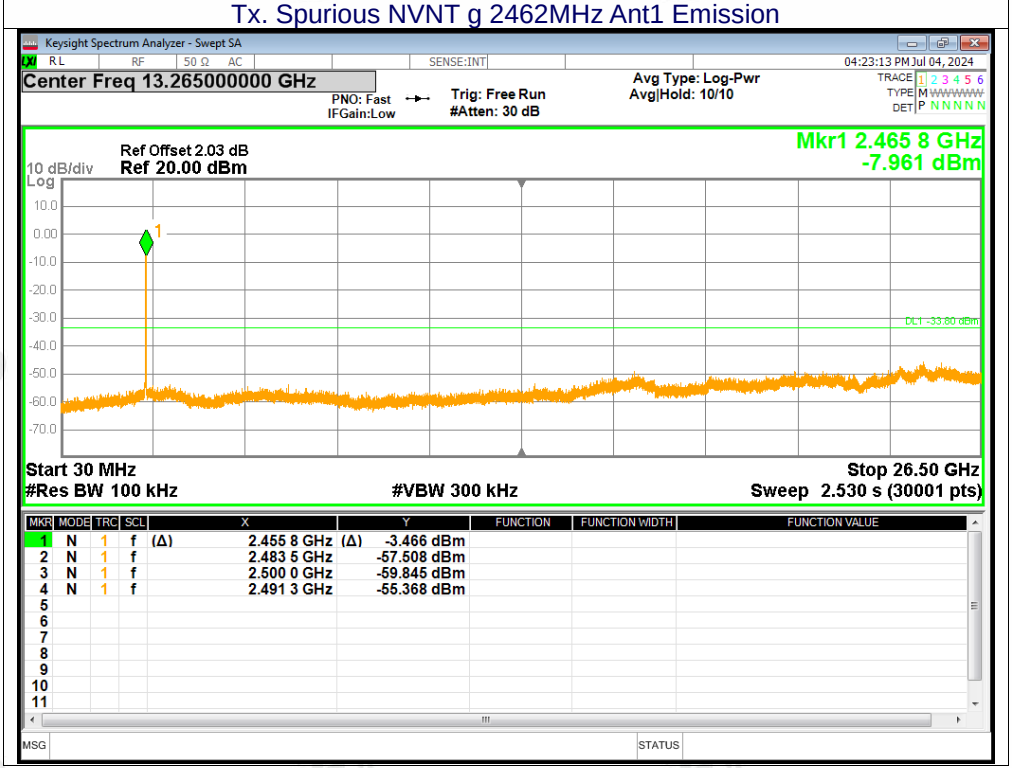
Tx. Spurious NVNT g 2437MHz Ant1 Emission



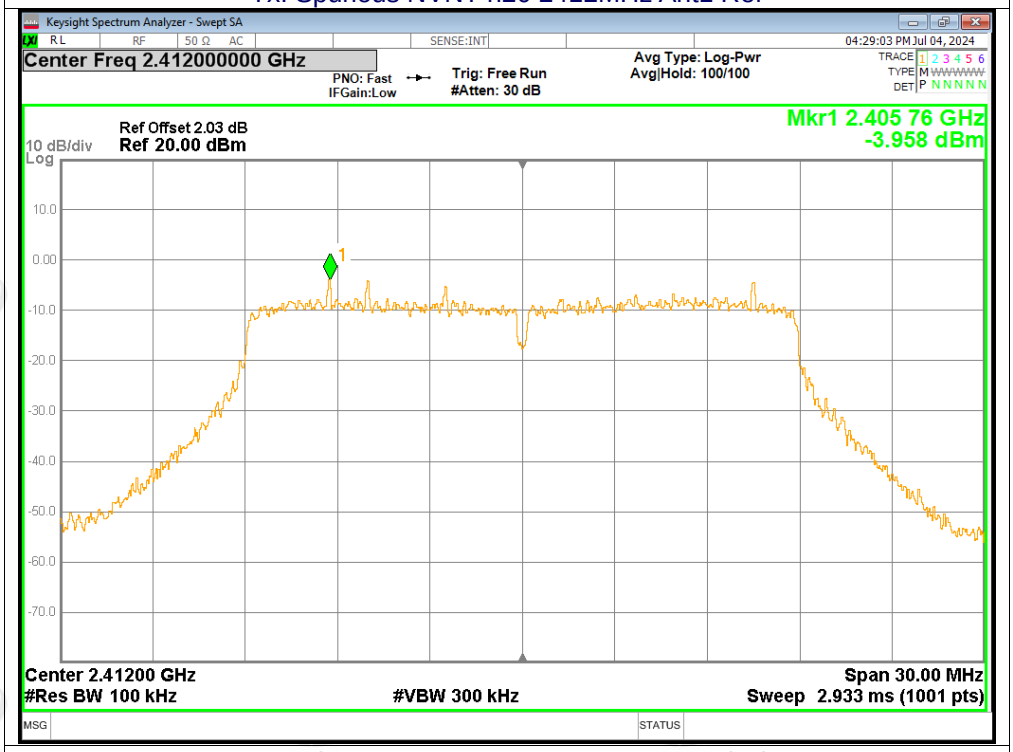
Tx. Spurious NVNT g 2462MHz Ant1 Ref



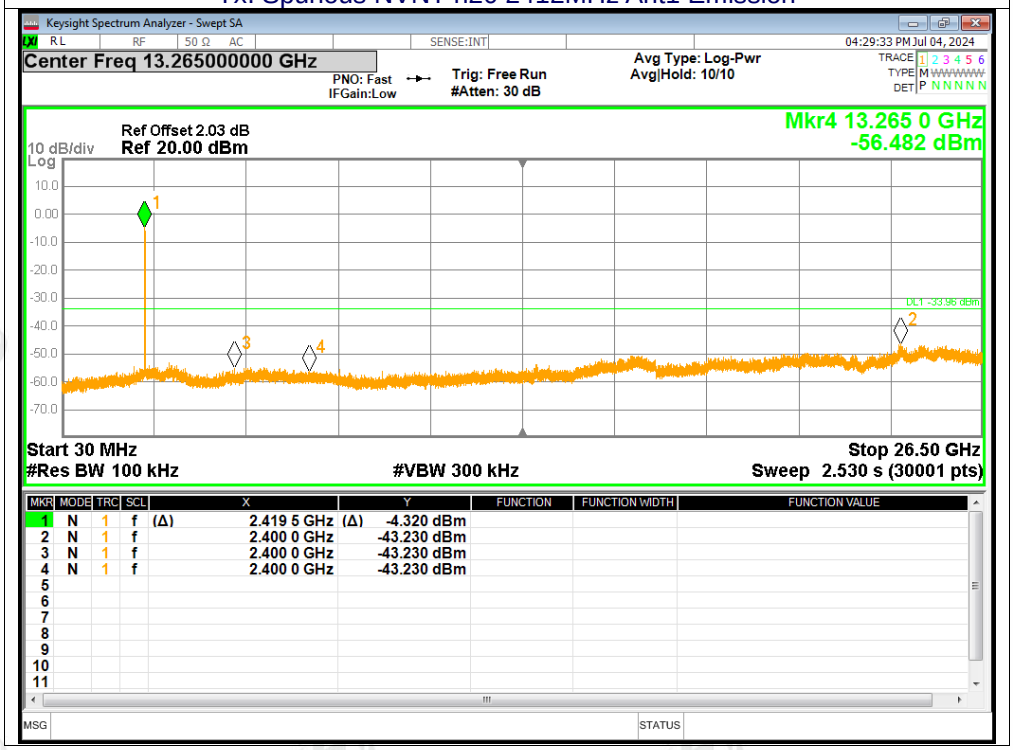
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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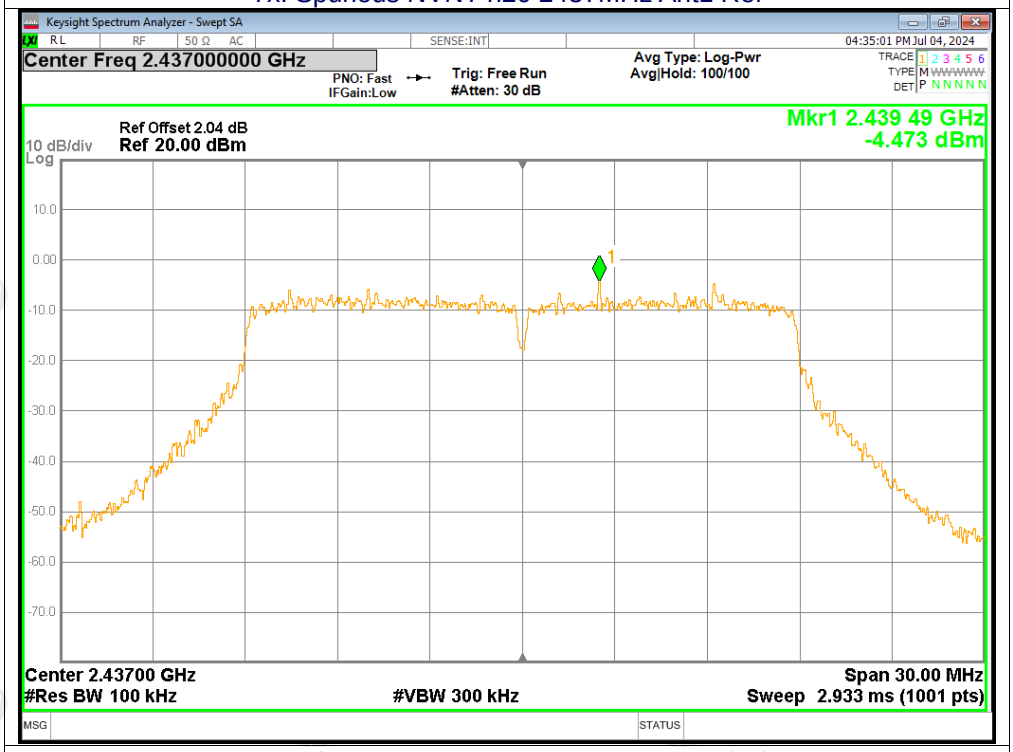
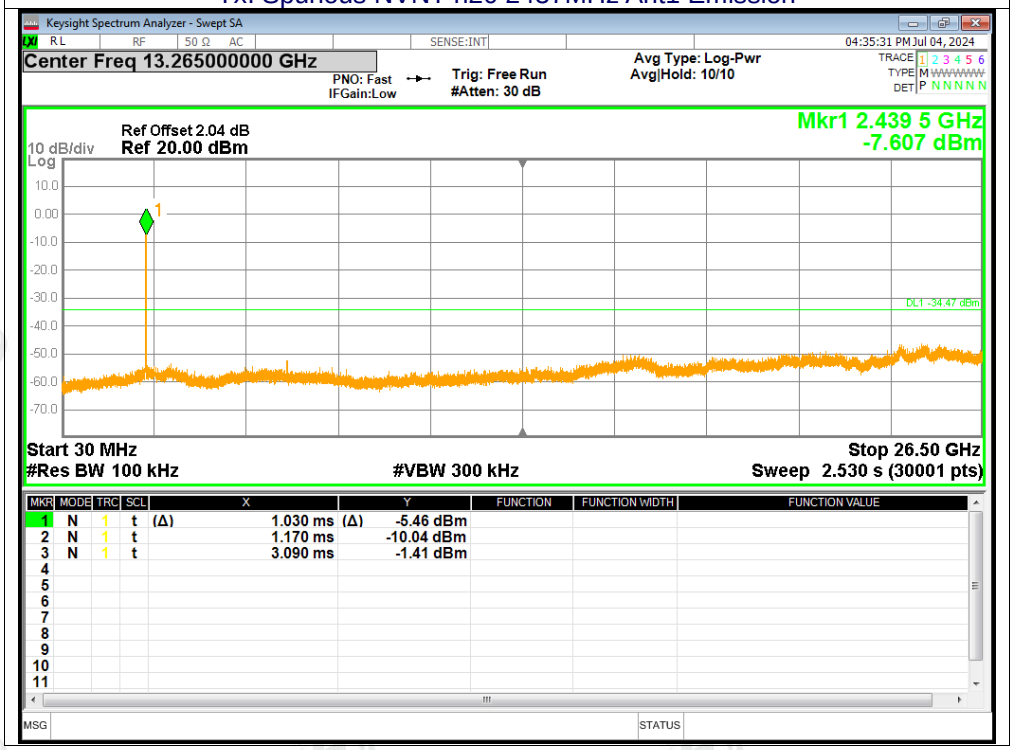


Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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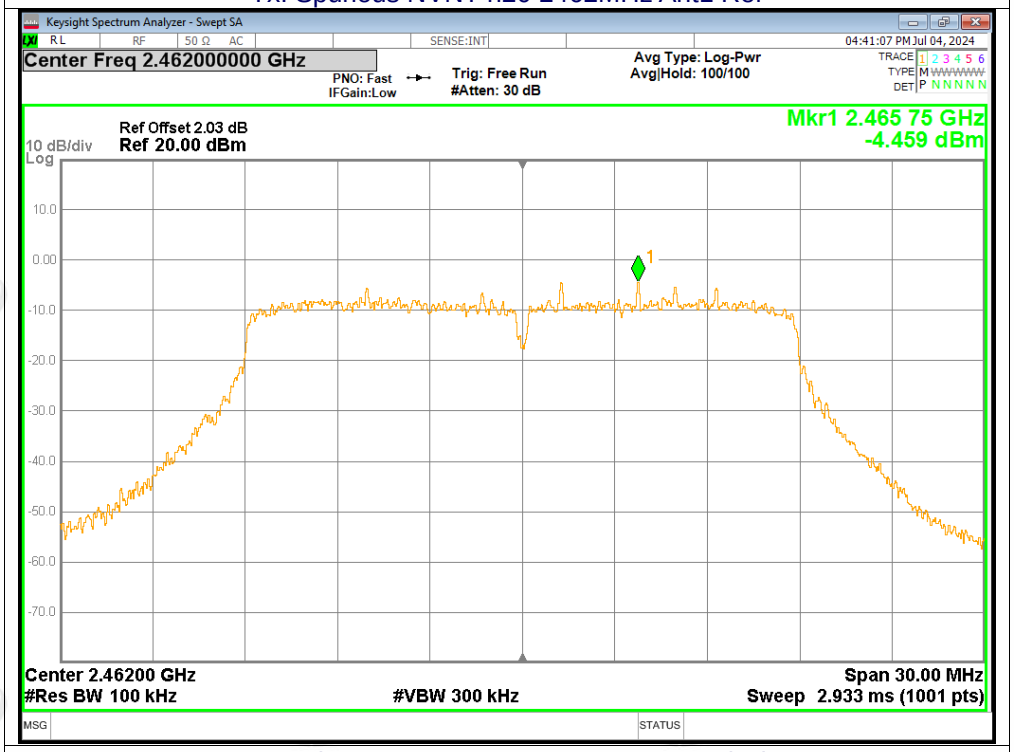
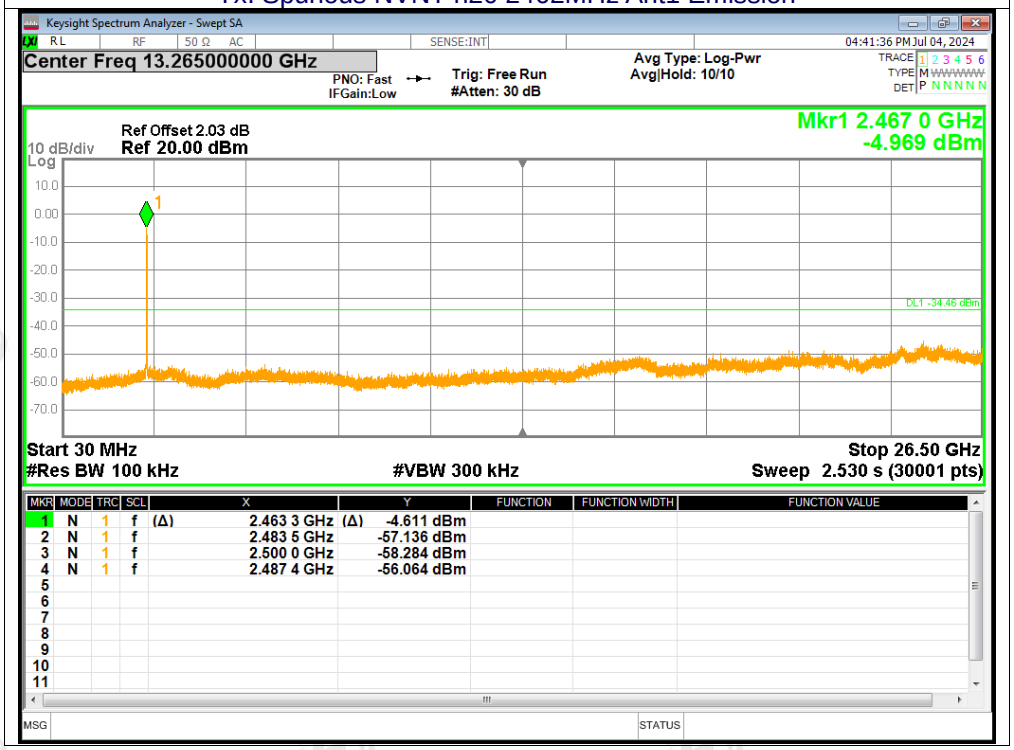
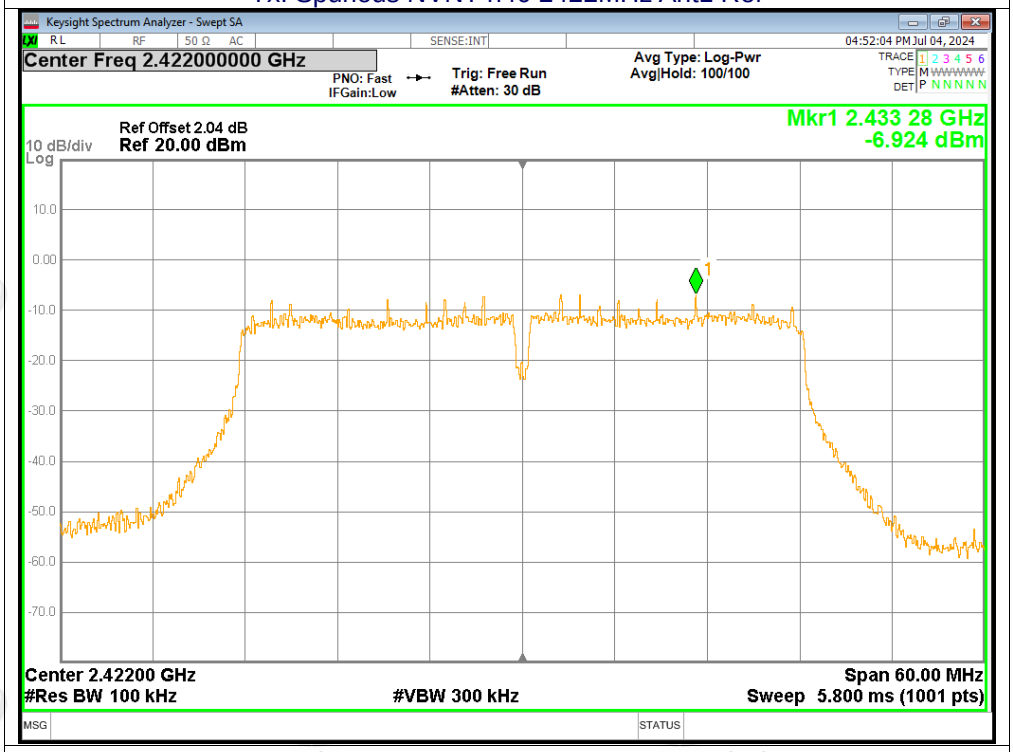


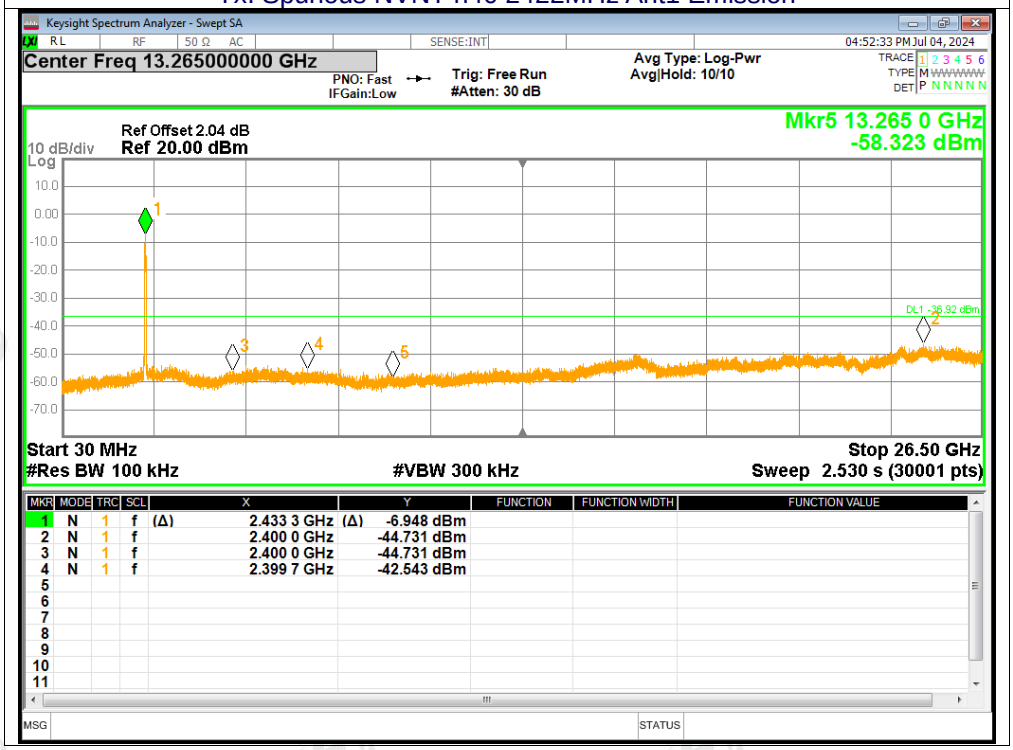
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



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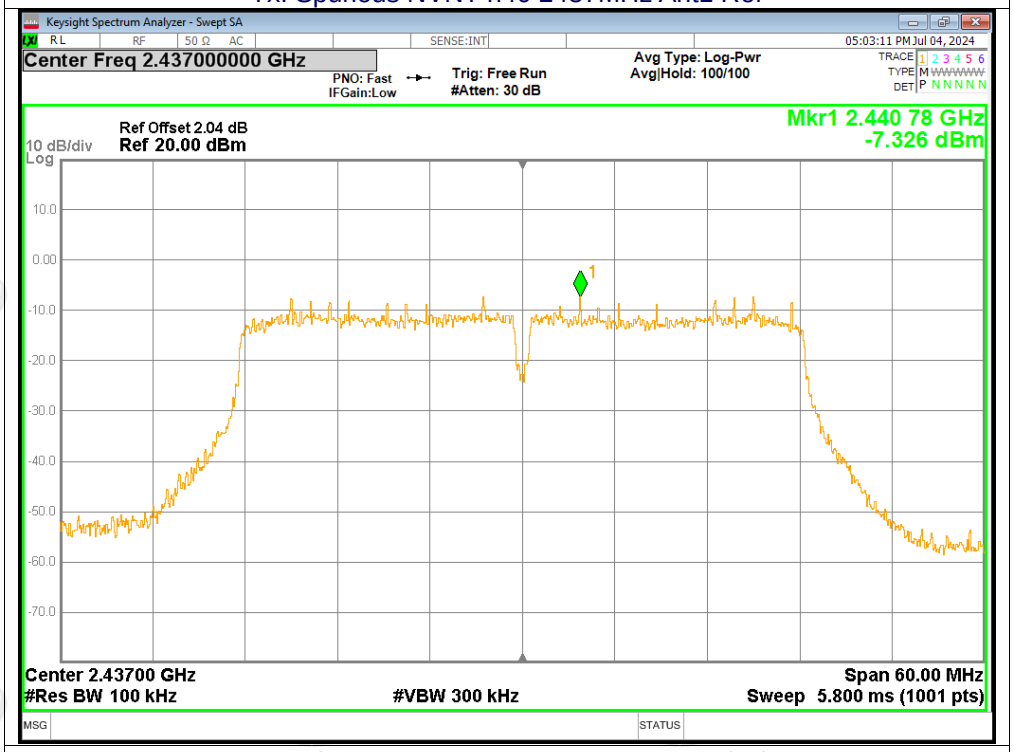
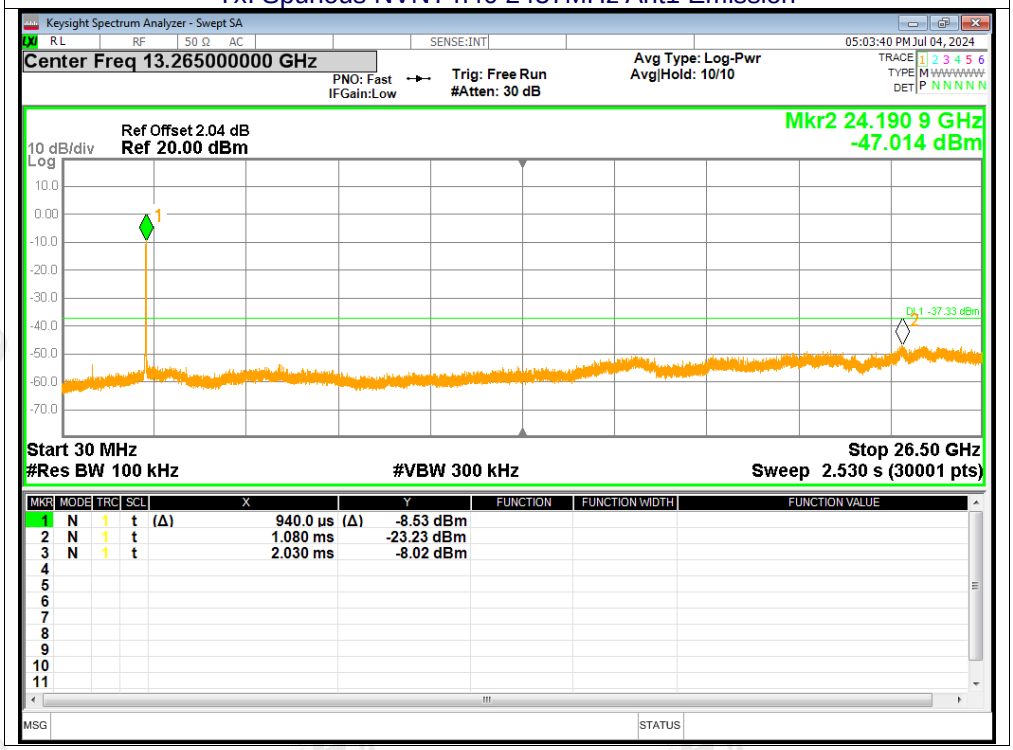
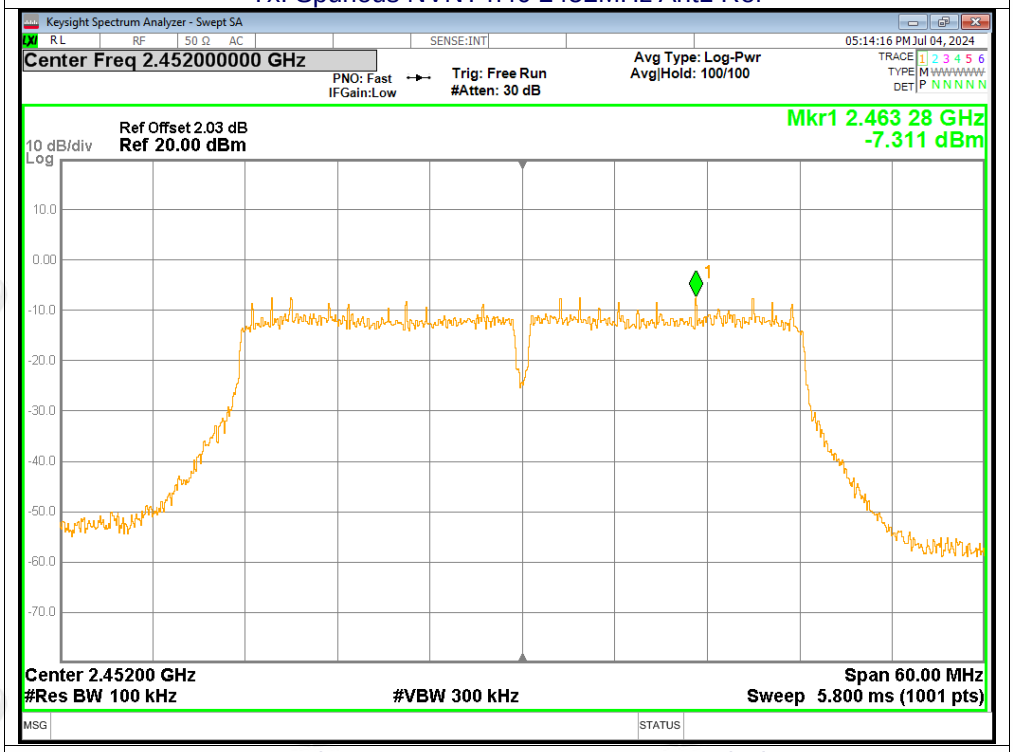


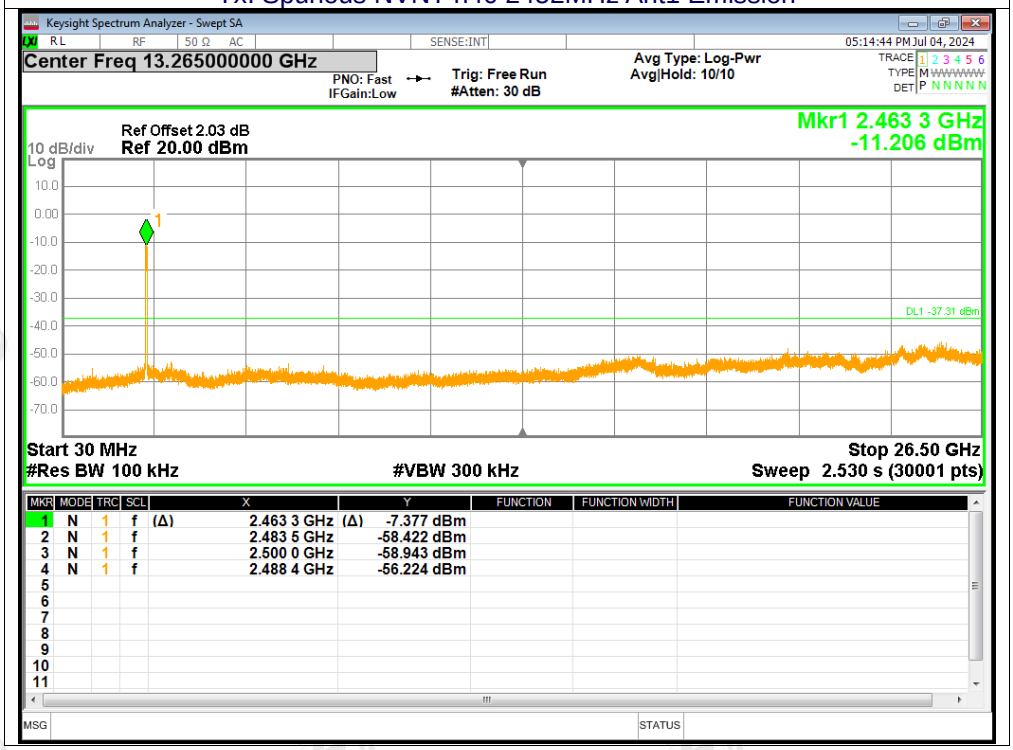
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	(Δ) 2.463 3 GHz	(Δ) -7.377 dBm			
2	N	1	f	2.483 5 GHz	-58.422 dBm			
3	N	1	f	2.500 0 GHz	-58.943 dBm			
4	N	1	f	2.488 4 GHz	-56.224 dBm			
5								
6								
7								
8								
9								
10								
11								

12. TEST SETUP PHOTO

Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

※※※※※ END OF REPORT ※※※※※