

FCC TEST REPORT

FCC ID: 2BQTC-D01

Report No..... : ZHT-250521118W01-1

Product..... : Wireless Carplay Adapter

Trademark..... : Cleviton

Model(s)..... : D01
D02, D03, D04, D05

Model Difference..... : D01 is the test model, while other models are derivative models. These models are the same on the circuit, with only different model names. Therefore, the test data of D01 can represent the remaining models.

Applicant..... : Maladuo Trade (Shenzhen) Co.,Ltd

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Manufacturer..... : Shenzhen Yinhaixing Technology Co., Ltd

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Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : May 21, 2025

Date of Test(s)..... : May 21, 2025-June 11, 2025

Date of Issue..... : July 14, 2025

Test Standard(s)..... : FCC CFR Title 47 Part 15 Subpart C Section 15.247

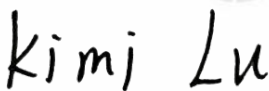
Test procedure..... : KDB558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2013

In the configuration tested, the EUT complied with the standards specified above.

Prepared by:

Reviewed by:

Approved by:



Kimi Lu/ Engineer



Baret Wu/ Director



Levi Lee/ Manager

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

Table of Contents

	Page
1. VERSION	4
2. SUMMARY OF TEST RESULTS	5
3. GENERAL INFORMATION	6
3.1 GENERAL DESCRIPTION OF EUT	6
3.2 DESCRIPTION OF TEST MODES	7
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	8
3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	8
3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	9
3.6 TESTING SOFTWARE	10
4. EMC EMISSION TEST	12
4.1 CONDUCTED EMISSION MEASUREMENT	12
4.1.1 POWER LINE CONDUCTED EMISSION Limits	12
4.1.2 TEST PROCEDURE	12
4.1.3 DEVIATION FROM TEST STANDARD	12
4.1.4 TEST SETUP	13
4.1.5 EUT OPERATING CONDITIONS	13
4.2 RADIATED EMISSION MEASUREMENT	16
4.2.1 RADIATED EMISSION LIMITS	16
4.2.2 TEST PROCEDURE	16
4.2.3 DEVIATION FROM TEST STANDARD	17
4.2.4 TEST SETUP	17
4.2.5 EUT OPERATING CONDITIONS	18
4.2.6 TEST RESULTS	18
5. RADIATED BAND EMISSIONMEASUREMENT	23
5.1 TEST REQUIREMENT:	23
5.2 TEST PROCEDURE	23
5.3 DEVIATION FROM TEST STANDARD	23
5.4 TEST SETUP	24
5.5 EUT OPERATING CONDITIONS	24
5.6 TEST RESULT	25
6. POWER SPECTRAL DENSITY TEST	27
6.1 APPLIED PROCEDURES / LIMIT	27
6.2 TEST PROCEDURE	27
6.3 DEVIATION FROM STANDARD	27
6.4 TEST SETUP	27
6.5 EUT OPERATION CONDITIONS	27
6.6 TEST RESULT	28



7. CHANNEL BANDWIDTH	29
7.1 APPLIED PROCEDURES / LIMIT	29
7.2 TEST PROCEDURE	29
7.3 DEVIATION FROM STANDARD	29
7.4 TEST SETUP	29
7.5 EUT OPERATION CONDITIONS	29
7.6 TEST RESULT	30
8. OUTPUT POWER TEST	31
8.1 APPLIED PROCEDURES/LIMIT	31
8.2 TEST PROCEDURE	31
8.3 DEVIATION FROM STANDARD	31
8.4 TEST SETUP	31
8.5 EUT OPERATION CONDITIONS	31
8.6 TEST RESULT	31
9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION	31
9.1 APPLICABLE STANDARD	32
9.2 TEST PROCEDURE	32
9.3 DEVIATION FROM STANDARD	32
9.4 TEST SETUP	32
9.5 EUT OPERATION CONDITIONS	32
9.6 TEST RESULTS	32
10. ANTENNA REQUIREMENT	33
11. APPENDIX WIFI	34
11.1 DUTY CYCLE	34
11.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER	41
11.3 -6DB BANDWIDTH	42
11.4 OCCUPIED CHANNEL BANDWIDTH	49
11.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL	56
11.6 BAND EDGE	63
11.7 CONDUCTED RF SPURIOUS EMISSION	72
12. TEST SETUP PHOTO	85
13. EUT CONSTRUCTIONAL DETAILS	85

1. VERSION

Report No.	Version	Description	Approved
ZHT-250521118W01-1	Rev.01	Initial issue of report	July 14, 2025



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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless Carplay Adapter
Test Model No.:	D01
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:	-0.93dBi
Power supply:	Input: DC 5 V
Sample Number:	250521118YP001
Remark:The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.	

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			
Remark: EUT use new battery during the test,the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.				
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
Adapter

EUT

Radiated Emission
Adapter

EUT

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
E-1	Adapter	Xiaomi	MDY-08-EH	N/A	AE

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) The test software is the adb.exe which can set the EUT into the individual test modes.TX Power:default.

3.5 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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

3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	100874	May 6, 2025	May 5, 2026
2	Loop Antenna	TESEQ	HLA6121	58357	Oct. 11, 2024	Oct. 10, 2025
3	Amplifier	Schwarzbeck	BBV 9743 B	00378	May 6, 2025	May 5, 2026
4	Amplifier	Schwarzbeck	BBV 9718 B	00040	May 7, 2025	May 6, 2026
5	Bilog Antenna	Schwarzbeck	VULB9162	00498	May 15, 2025	May 14, 2026
6	Horn Antenna	Schwarzbeck	BBHA9120D	02623	May 15, 2025	May 14, 2026
7	Horn Antenna	A.H.SYSTEMS	SAS574	588	Oct. 21, 2024	Oct. 20, 2025
8	Amplifier	AEROFLEX	100KHz-40GHz	097	Oct. 21, 2024	Oct. 20, 2025
9	Spectrum Analyzer	R&S	FSV40	101413	Oct. 21, 2024	Oct. 20, 2025
10	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	May 7, 2025	May 6, 2026
11	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	109863	May 7, 2025	May 6, 2026
12	Single Generator	Agilent	N5182A	MY48180575	May 7, 2025	May 6, 2026
13	Power Sensor	MWRFTest	MW100-RFCB	/	May 7, 2025	May 6, 2026
14	CABLE	EMToni	DA800-NM-NM-11000MM	/	May 6, 2025	May 5, 2026

Conduction Test equipment

Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
Receiver	R&S	ESCI	100874	May 6, 2025	May 5, 2026
LISN	R&S	ENV216	102794	May 6, 2025	May 5, 2026
ISN CAT 6	Schwarzbeck	NTFM 8158	00318	May 7, 2025	May 6, 2026
ISN CAT 5	Schwarzbeck	CAT5 8158	00343	May 7, 2025	May 6, 2026
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	00101	June 11, 2025	May 7, 2026
Current Transformer Clamp	Schwarzbeck	SW 9605	SW9605 #209	June 11, 2025	May 7, 2026
CABLE	EMToni	G223-NM-BNCM -2000MM	/	May 7, 2025	May 6, 2026

Conducted Test equipment

Item	Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	R&S	FSV40	101413	Oct. 21, 2024	Oct. 20, 2025
2	Spectrum Analyzer	KEYSIGHT	N9020A	MY53420208	May 7, 2025	May 6, 2026
3	Power Sensor	MWRFTest	MW100-RFCB	/	May 7, 2025	May 6, 2026

3.6 TESTING SOFTWARE

Project	Software name	Edition
RF Conducted	MTS 8310	2.0.0.0
Conducted Emission	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission	EZ-EMC	FA-03A2 RE+

3.7 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 1.38\text{dB}$
2	RF conducted power	$\pm 0.16\text{dB}$
3	Conducted spurious emissions	$\pm 0.21\text{dB}$
4	All radiated emissions (9k-30MHz)	$\pm 4.68\text{dB}$
5	All radiated emissions (<1G)	$\pm 4.68\text{dB}$
6	All radiated emissions (>1G)	$\pm 4.89\text{dB}$
7	Temperature	$\pm 0.5^{\circ}\text{C}$
8	Humidity	$\pm 2\%$
9	Occupied Bandwidth	$\pm 4.96\%$

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

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

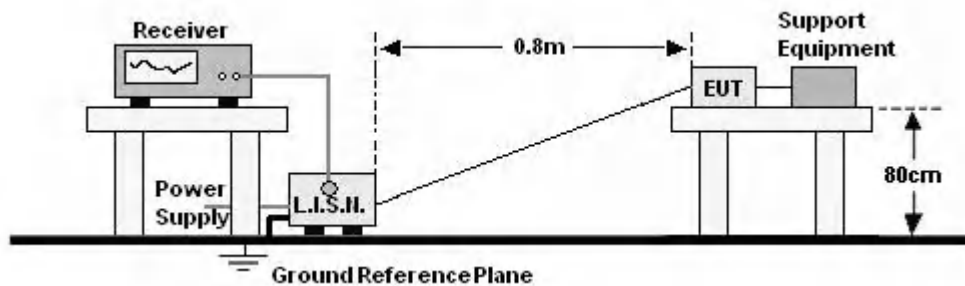
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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



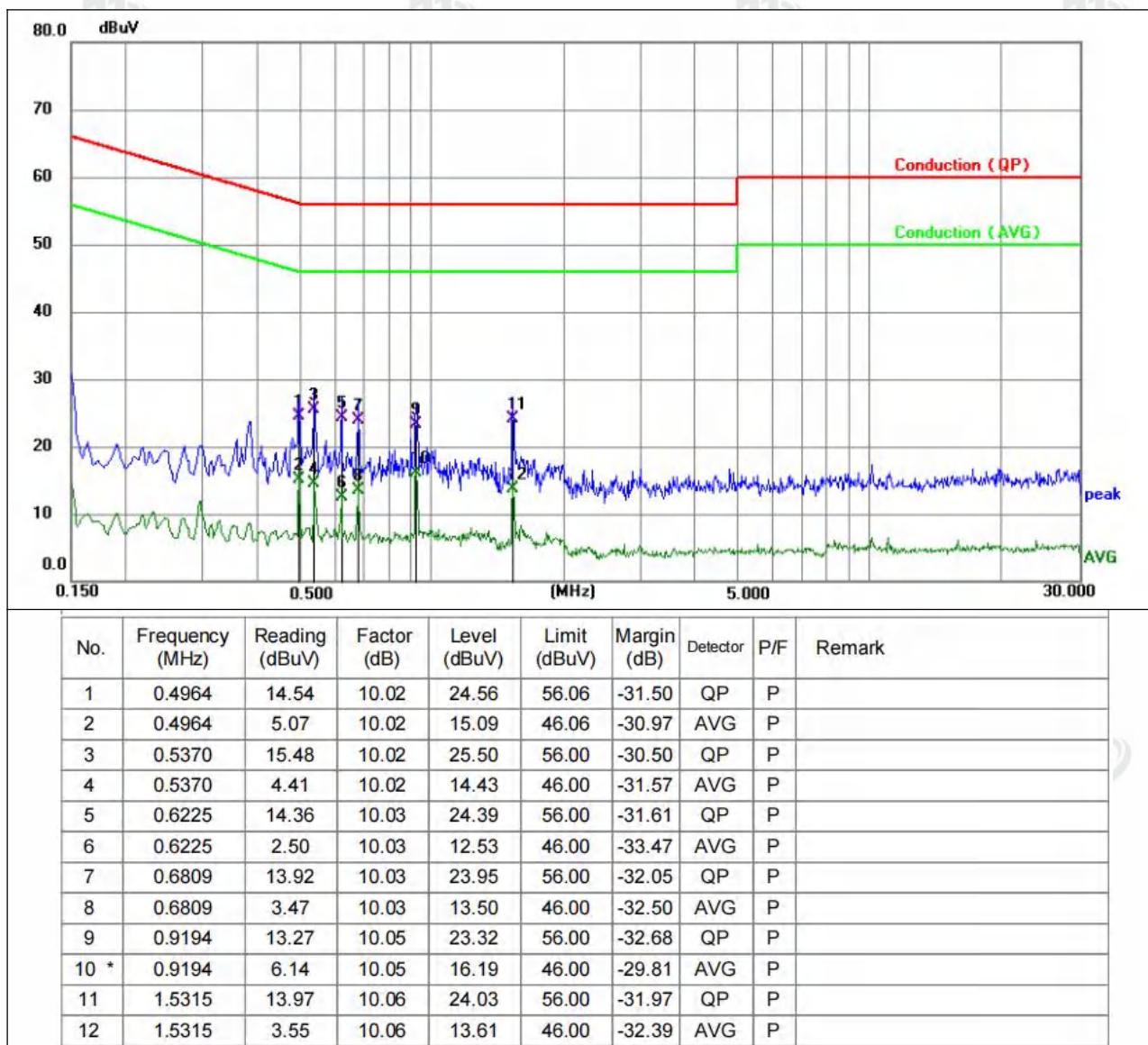
4.1.5 EUT OPERATING CONDITIONS

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		

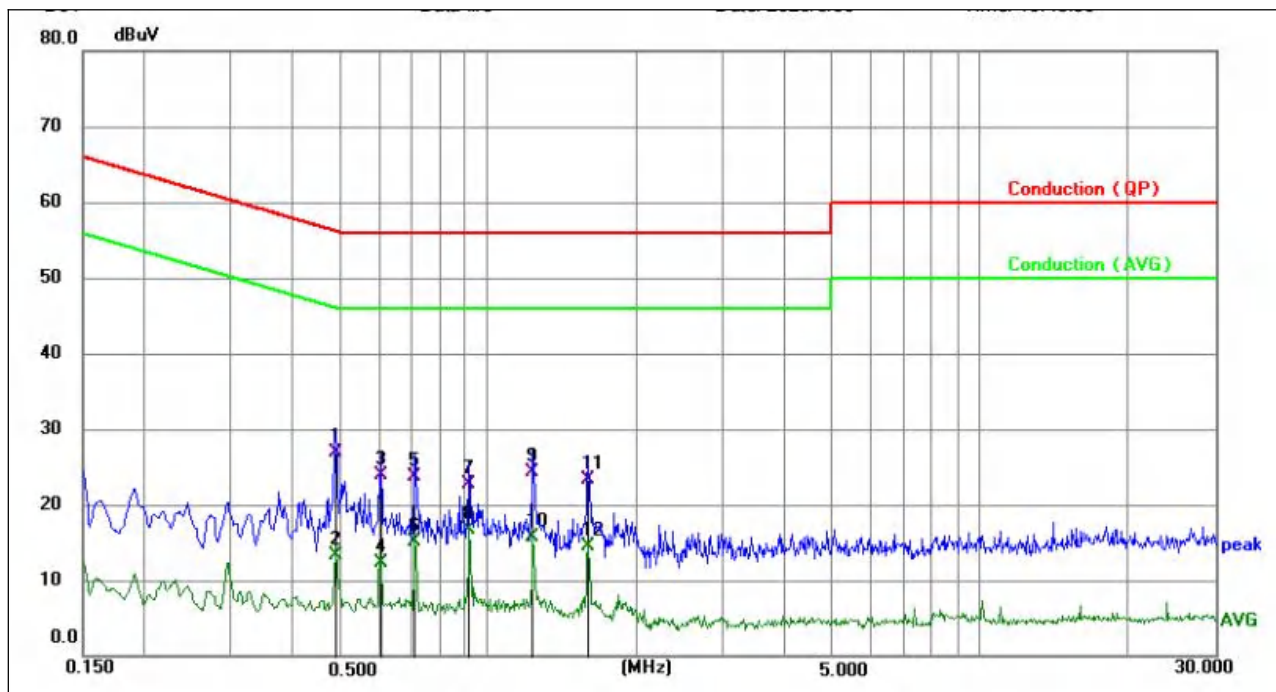


Notes:

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. Measurement Level = Reading level + Correct Factor
4. The test data shows only the worst case 802.11g mode (Low Channel:2412MHz).



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	P/F	Remark
1	0.4874	16.85	10.01	26.86	56.21	-29.35	QP	P	
2	0.4874	3.36	10.01	13.37	46.21	-32.84	AVG	P	
3	0.6045	13.93	10.03	23.96	56.00	-32.04	QP	P	
4	0.6045	2.36	10.03	12.39	46.00	-33.61	AVG	P	
5	0.7080	13.76	10.04	23.80	56.00	-32.20	QP	P	
6	0.7080	5.16	10.04	15.20	46.00	-30.80	AVG	P	
7	0.9150	12.58	10.05	22.63	56.00	-33.37	QP	P	
8 *	0.9150	6.75	10.05	16.80	46.00	-29.20	AVG	P	
9	1.2344	14.21	10.06	24.27	56.00	-31.73	QP	P	
10	1.2344	5.62	10.06	15.68	46.00	-30.32	AVG	P	
11	1.5990	13.34	10.06	23.40	56.00	-32.60	QP	P	
12	1.5990	4.36	10.06	14.42	46.00	-31.58	AVG	P	

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. Measurement Level = Reading level + Correct Factor
4. The test data shows only the worst case 802.11g mode (Low Channel:2412MHz).



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-anechoic chamber. 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 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 (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 reported in 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:

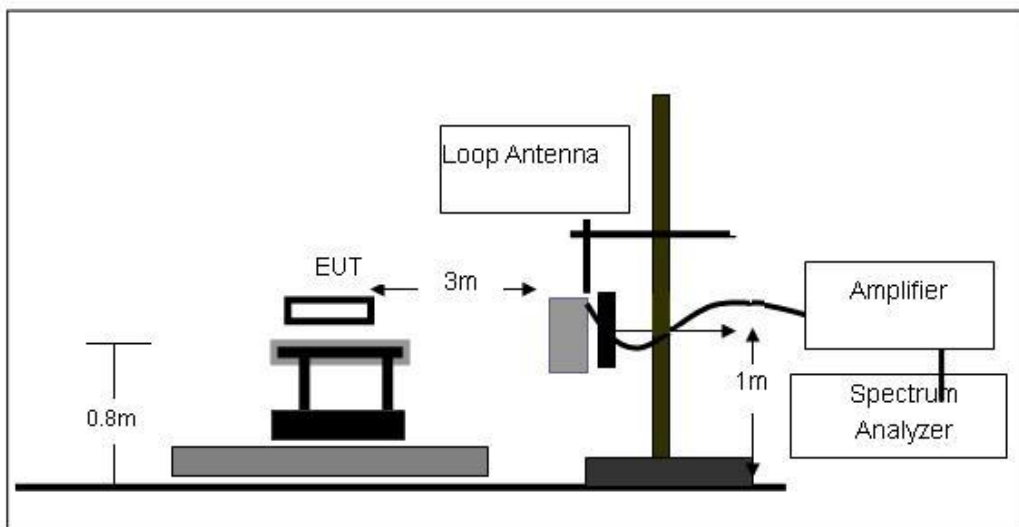
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

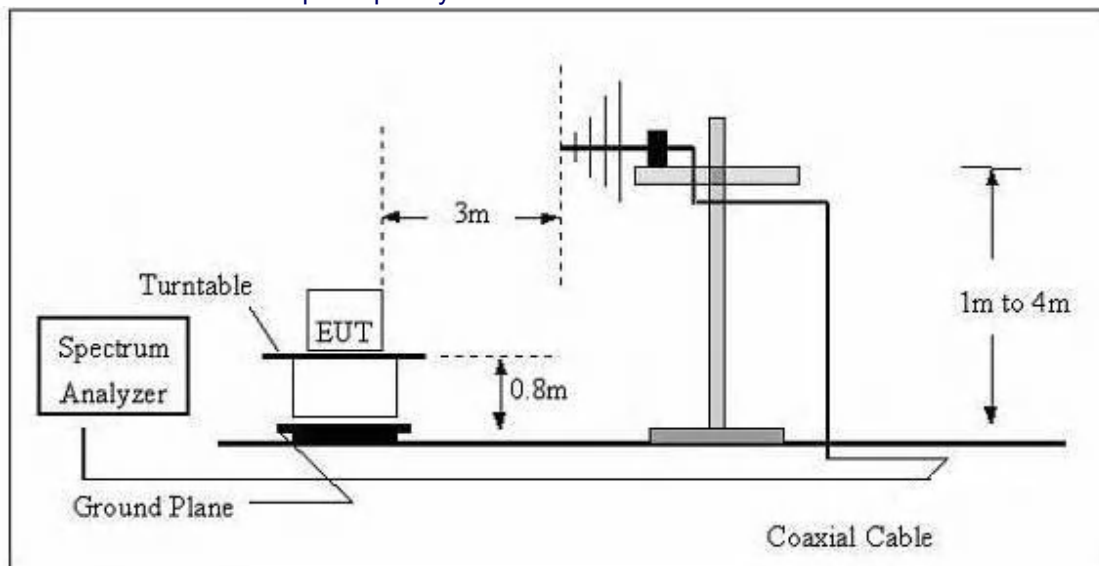
No deviation

4.2.4 TEST SETUP

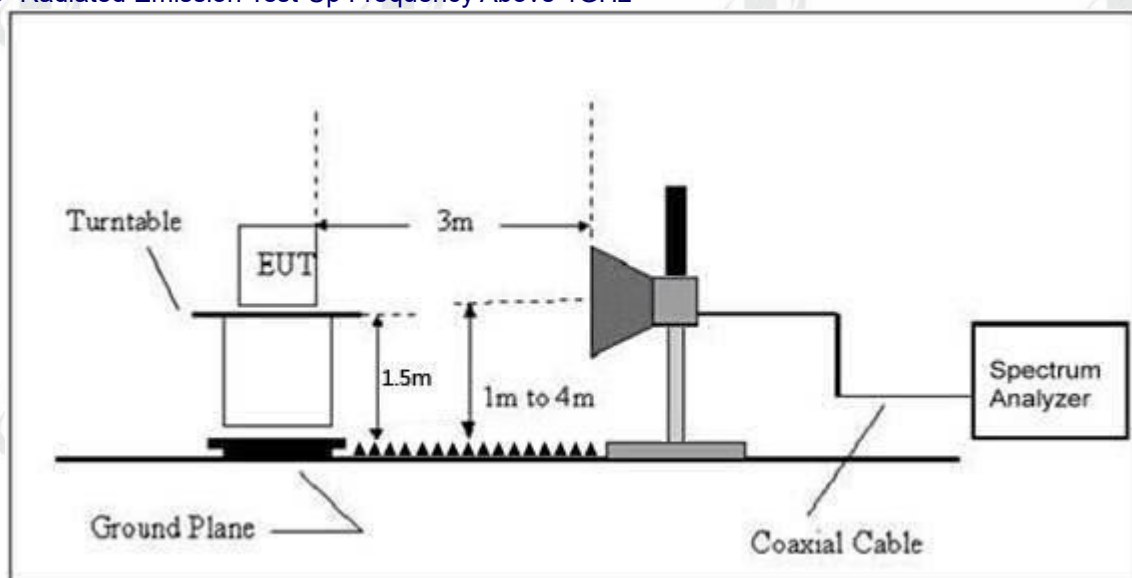
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

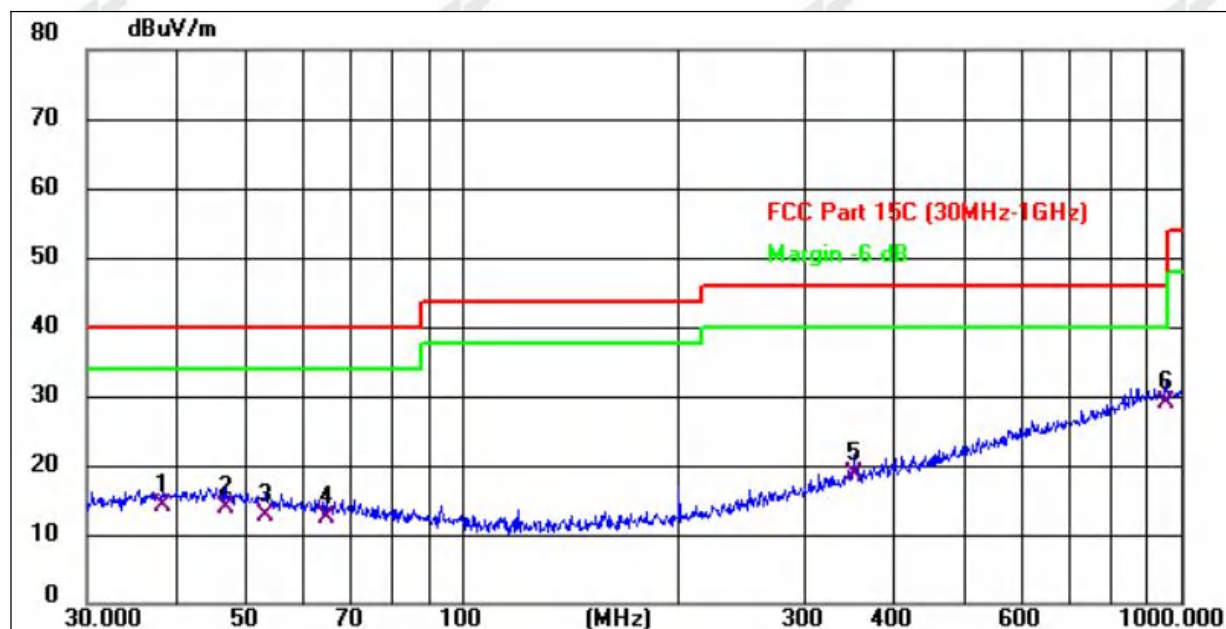
Between 9KHz – 30MHz

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

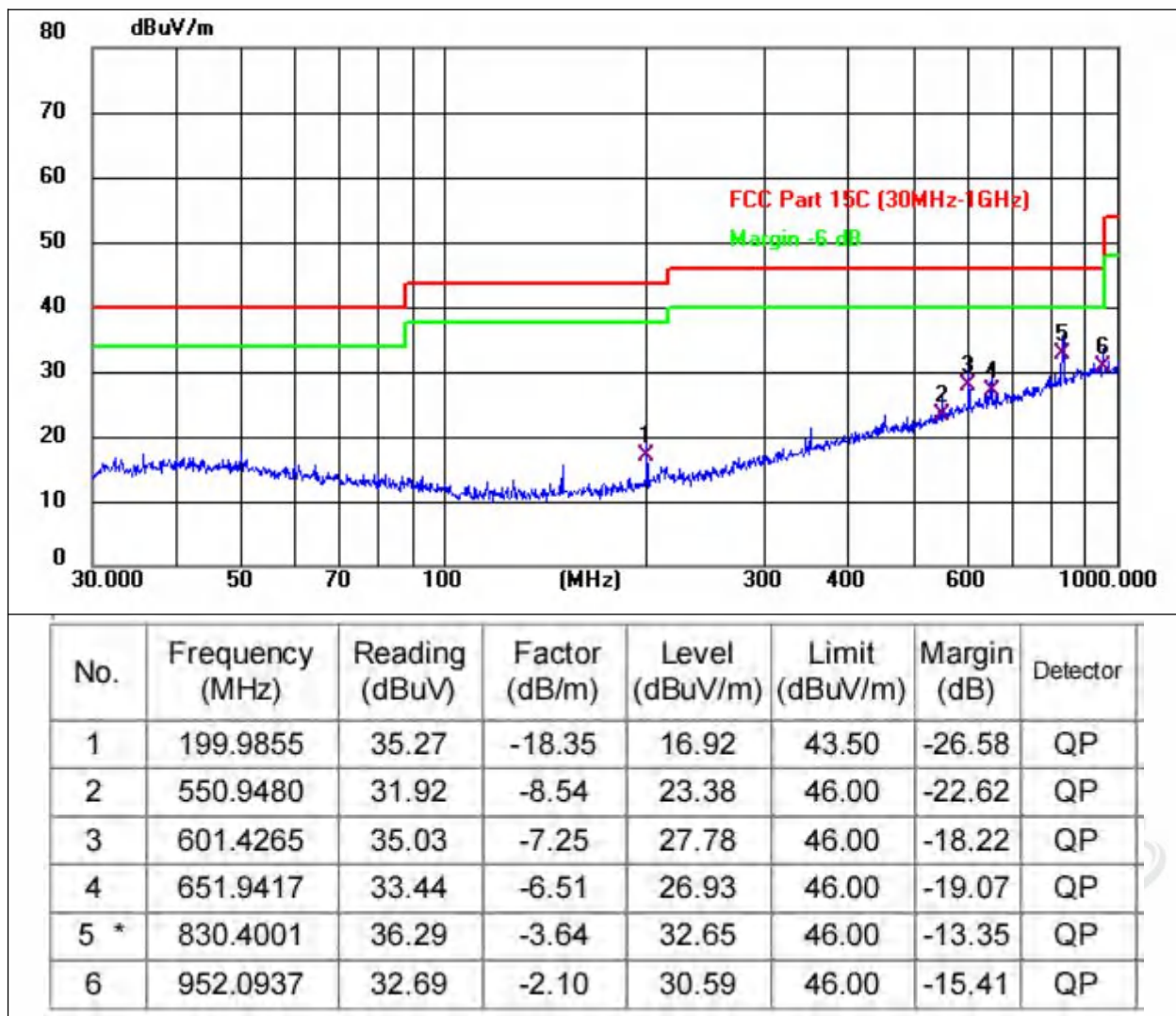
Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.3462	28.91	-14.89	14.02	40.00	-25.98	QP
2	46.9947	28.78	-15.00	13.78	40.00	-26.22	QP
3	53.1313	28.24	-15.48	12.76	40.00	-27.24	QP
4	64.6594	28.83	-16.52	12.31	40.00	-27.69	QP
5	350.4766	31.93	-13.34	18.59	46.00	-27.41	QP
6 *	952.0937	31.23	-2.10	29.13	46.00	-16.87	QP



Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		



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 802.11g mode (Low Channel:2412MHz).

1GHz~25GHz

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-ampl ifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/ m)	Margin (dB)	Detect or Type
802.11b									
Low Channel:2412MHz									
V	4824.00	56.32	30.55	5.77	24.66	56.2	74	-17.8	Pk
V	4824.00	42.55	30.55	5.77	24.66	42.43	54	-11.57	AV
H	4824.00	59.87	30.33	6.32	24.55	60.41	74	-13.59	Pk
H	4824.00	43.22	30.33	6.32	24.55	43.76	54	-10.24	AV
Middle Channel:2437MHz									
V	4874.00	58.37	30.55	5.77	24.66	58.25	74	-15.75	Pk
V	4874.00	43.46	30.55	5.77	24.66	43.34	54	-10.66	AV
H	4874.00	55.44	30.33	6.32	24.55	55.98	74	-18.02	Pk
H	4874.00	43.44	30.33	6.32	24.55	43.98	54	-10.02	AV
High Channel:2462MHz									
V	4924.00	59.71	30.55	5.77	24.66	59.59	74	-14.41	Pk
V	4924.00	41.54	30.55	5.77	24.66	41.42	54	-12.58	AV
H	4924.00	57.39	30.33	6.32	24.55	57.93	74	-16.07	Pk
H	4924.00	44.52	30.33	6.32	24.55	45.06	54	-8.94	AV
802.11g									
Low Channel:2412MHz									
V	4824.00	57.41	30.55	5.77	24.66	57.29	74	-16.71	Pk
V	4824.00	41.05	30.55	5.77	24.66	40.93	54	-13.07	AV
H	4824.00	58.8	30.33	6.32	24.55	59.34	74	-14.66	Pk
H	4824.00	41.5	30.33	6.32	24.55	42.04	54	-11.96	AV
Middle Channel:2437MHz									
V	4874.00	57.43	30.55	5.77	24.66	57.31	74	-16.69	Pk
V	4874.00	41.75	30.55	5.77	24.66	41.63	54	-12.37	AV
H	4874.00	55.1	30.33	6.32	24.55	55.64	74	-18.36	Pk
H	4874.00	43.11	30.33	6.32	24.55	43.65	54	-10.35	AV
High Channel:2462MHz									
V	4924.00	59.02	30.55	5.77	24.66	58.9	74	-15.1	Pk
V	4924.00	41.49	30.55	5.77	24.66	41.37	54	-12.63	AV
H	4924.00	59.24	30.33	6.32	24.55	59.78	74	-14.22	Pk
H	4924.00	42.56	30.33	6.32	24.55	43.1	54	-10.9	AV
802.11n 20									
Low Channel:2412MHz									
V	4824.00	59.22	30.55	5.77	24.66	59.1	74	-14.9	Pk
V	4824.00	42.1	30.55	5.77	24.66	41.98	54	-12.02	AV
H	4824.00	59.81	30.33	6.32	24.55	60.35	74	-13.65	Pk
H	4824.00	41.3	30.33	6.32	24.55	41.84	54	-12.16	AV
Middle Channel:2437MHz									
V	4874.00	59.85	30.55	5.77	24.66	59.73	74	-14.27	Pk
V	4874.00	41.72	30.55	5.77	24.66	41.6	54	-12.4	AV
H	4874.00	55.42	30.33	6.32	24.55	55.96	74	-18.04	Pk
	4874.00	44.76	30.33	6.32	24.55	45.3	54	-8.7	AV
High Channel:2462MHz									
V	4924.00	59.77	30.55	5.77	24.66	59.65	74	-14.35	Pk
V	4924.00	43.21	30.55	5.77	24.66	43.09	54	-10.91	AV
H	4924.00	56.38	30.33	6.32	24.55	56.92	74	-17.08	Pk
H	4924.00	41.2	30.33	6.32	24.55	41.74	54	-12.26	AV



802.11n 40									
Low Channel:2422MHz									
V	4844.00	56.96	30.55	5.77	24.66	56.84	74	-17.16	Pk
V	4844.00	41.1	30.55	5.77	24.66	40.98	54	-13.02	AV
H	4844.00	59.52	30.33	6.32	24.55	60.06	74	-13.94	Pk
H	4844.00	44.99	30.33	6.32	24.55	45.53	54	-8.47	AV
Middle Channel:2437MHz									
V	4874.00	57.15	30.55	5.77	24.66	57.03	74	-16.97	Pk
V	4874.00	41.22	30.55	5.77	24.66	41.1	54	-12.9	AV
H	4874.00	58.15	30.33	6.32	24.55	58.69	74	-15.31	Pk
H	4874.00	41.24	30.33	6.32	24.55	41.78	54	-12.22	AV
High Channel:2452MHz									
V	4904.00	56.16	30.55	5.77	24.66	56.04	74	-17.96	Pk
V	4904.00	41.23	30.55	5.77	24.66	41.11	54	-12.89	AV
H	4904.00	56.53	30.33	6.32	24.55	57.07	74	-16.93	Pk
H	4904.00	41.48	30.33	6.32	24.55	42.02	54	-11.98	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 EMISSION MEASUREMENT

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	Peak	1MHz	3MHz	Peak
	1GHz	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 reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

Note:

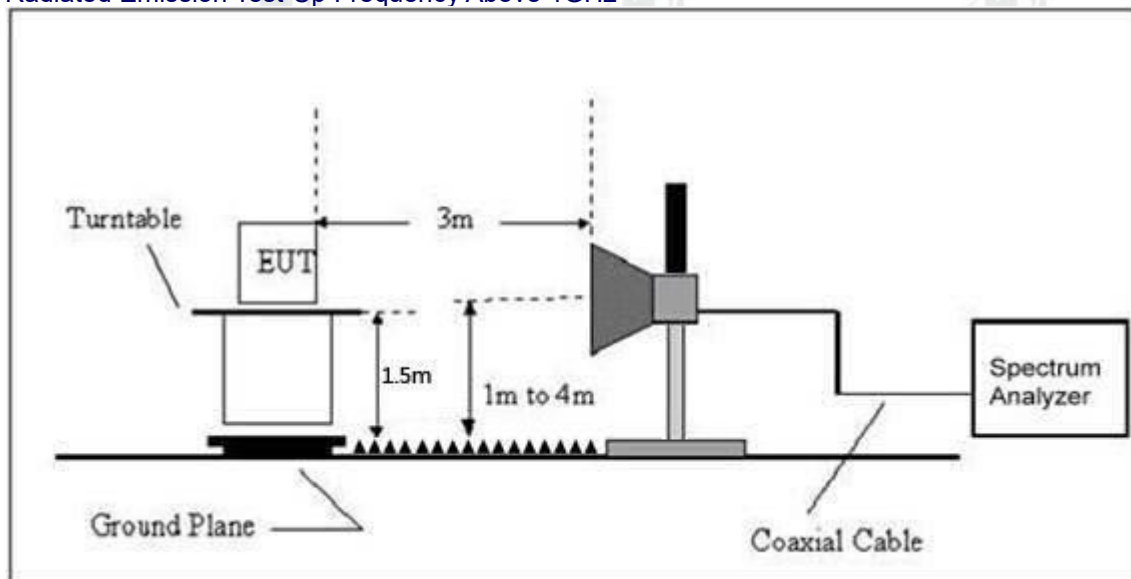
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation



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)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n (dB)	Detec tor Type	Result
802.11b	Low Channel 2412MHz										
	H	2390.00	60.58	30.22	4.85	23.98	59.19	74.00	-14.81	PK	PASS
	H	2390.00	46.02	30.22	4.85	23.98	44.63	54.00	-9.37	AV	PASS
	H	2400.00	59.09	30.22	4.85	23.98	57.70	74.00	-16.30	PK	PASS
	H	2400.00	46.36	30.22	4.85	23.98	44.97	54.00	-9.03	AV	PASS
	V	2390.00	61.97	30.22	4.85	23.98	60.58	74.00	-13.42	PK	PASS
	V	2390.00	46.30	30.22	4.85	23.98	44.91	54.00	-9.09	AV	PASS
	V	2400.00	59.80	30.22	4.85	23.98	58.41	74.00	-15.59	PK	PASS
	V	2400.00	46.87	30.22	4.85	23.98	45.48	54.00	-8.52	AV	PASS
	High Channel 2462MHz										
	H	2483.50	59.46	30.22	4.85	23.98	58.07	74.00	-15.93	AV	PASS
	H	2483.50	48.91	30.22	4.85	23.98	47.52	54.00	-6.48	PK	PASS
	H	2500.00	61.19	30.22	4.85	23.98	59.80	74.00	-14.20	AV	PASS
	H	2500.00	47.39	30.22	4.85	23.98	46.00	54.00	-8.00	PK	PASS
	V	2483.50	62.22	30.22	4.85	23.98	60.83	74.00	-13.17	AV	PASS
	V	2483.50	46.64	30.22	4.85	23.98	45.25	54.00	-8.75	PK	PASS
	V	2500.00	60.87	30.22	4.85	23.98	59.48	74.00	-14.52	AV	PASS
	V	2500.00	48.84	30.22	4.85	23.98	47.45	54.00	-6.55	AV	PASS
802.11g	Low Channel 2412MHz										
	H	2390.00	61.10	30.22	4.85	23.98	59.71	74.00	-14.29	PK	PASS
	H	2390.00	46.50	30.22	4.85	23.98	45.11	54.00	-8.89	AV	PASS
	H	2400.00	59.74	30.22	4.85	23.98	58.35	74.00	-15.65	PK	PASS
	H	2400.00	46.49	30.22	4.85	23.98	45.10	54.00	-8.90	AV	PASS
	V	2390.00	61.33	30.22	4.85	23.98	59.94	74.00	-14.06	PK	PASS
	V	2390.00	47.99	30.22	4.85	23.98	46.60	54.00	-7.40	AV	PASS
	V	2400.00	61.59	30.22	4.85	23.98	60.20	74.00	-13.80	PK	PASS
	V	2400.00	46.69	30.22	4.85	23.98	45.30	54.00	-8.70	AV	PASS
	High Channel 2462MHz										
	H	2483.50	60.06	30.22	4.85	23.98	58.67	74.00	-15.33	PK	PASS
	H	2483.50	48.09	30.22	4.85	23.98	46.70	54.00	-7.30	AV	PASS
	H	2500.00	60.03	30.22	4.85	23.98	58.64	74.00	-15.36	PK	PASS
	H	2500.00	47.18	30.22	4.85	23.98	45.79	54.00	-8.21	AV	PASS
	V	2483.50	59.56	30.22	4.85	23.98	58.17	74.00	-15.83	PK	PASS
	V	2483.50	46.45	30.22	4.85	23.98	45.06	54.00	-8.94	AV	PASS
	V	2500.00	61.26	30.22	4.85	23.98	59.87	74.00	-14.13	PK	PASS
	V	2500.00	48.24	30.22	4.85	23.98	46.85	54.00	-7.15	AV	PASS
802.11n2 0	Low Channel 2412MHz										
	H	2390.00	62.81	30.22	4.85	23.98	61.42	74.00	-12.58	PK	PASS
	H	2390.00	48.83	30.22	4.85	23.98	47.44	54.00	-6.56	AV	PASS
	H	2400.00	61.23	30.22	4.85	23.98	59.84	74.00	-14.16	PK	PASS
	H	2400.00	48.77	30.22	4.85	23.98	47.38	54.00	-6.62	AV	PASS
	V	2390.00	62.48	30.22	4.85	23.98	61.09	74.00	-12.91	PK	PASS
	V	2390.00	48.21	30.22	4.85	23.98	46.82	54.00	-7.18	AV	PASS
	V	2400.00	61.56	30.22	4.85	23.98	60.17	74.00	-13.83	PK	PASS
	V	2400.00	48.88	30.22	4.85	23.98	47.49	54.00	-6.51	AV	PASS
	High Channel 2462MHz										
	H	2483.50	62.47	30.22	4.85	23.98	61.08	74.00	-12.92	PK	PASS
	H	2483.50	47.84	30.22	4.85	23.98	46.45	54.00	-7.55	AV	PASS
	H	2500.00	59.40	30.22	4.85	23.98	58.01	74.00	-15.99	PK	PASS
	H	2500.00	47.78	30.22	4.85	23.98	46.39	54.00	-7.61	AV	PASS
	V	2483.50	62.48	30.22	4.85	23.98	61.09	74.00	-12.91	PK	PASS
	V	2483.50	48.29	30.22	4.85	23.98	46.90	54.00	-7.10	AV	PASS



802.11n 40	V	2500.00	59.26	30.22	4.85	23.98	57.87	74.00	-16.13	PK	PASS
	V	2500.00	48.25	30.22	4.85	23.98	46.86	54.00	-7.14	AV	PASS
	Low Channel 2422MHz										
	H	2390.00	62.72	30.22	4.85	23.98	61.33	74.00	-12.67	PK	PASS
	H	2390.00	46.60	30.22	4.85	23.98	45.21	54.00	-8.79	AV	PASS
	H	2400.00	61.17	30.22	4.85	23.98	59.78	74.00	-14.22	PK	PASS
	H	2400.00	48.03	30.22	4.85	23.98	46.64	54.00	-7.36	AV	PASS
	V	2390.00	60.35	30.22	4.85	23.98	58.96	74.00	-15.04	PK	PASS
	V	2390.00	46.77	30.22	4.85	23.98	45.38	54.00	-8.62	AV	PASS
	V	2400.00	61.03	30.22	4.85	23.98	59.64	74.00	-14.36	PK	PASS
	V	2400.00	48.57	30.22	4.85	23.98	47.18	54.00	-6.82	AV	PASS
	High Channel 2452MHz										
	H	2483.50	60.95	30.22	4.85	23.98	59.56	74.00	-14.44	PK	PASS
	H	2483.50	48.20	30.22	4.85	23.98	46.81	54.00	-7.19	AV	PASS
	H	2500.00	59.28	30.22	4.85	23.98	57.89	74.00	-16.11	PK	PASS
	H	2500.00	48.53	30.22	4.85	23.98	47.14	54.00	-6.86	AV	PASS
	V	2483.50	59.52	30.22	4.85	23.98	58.13	74.00	-15.87	PK	PASS
	V	2483.50	46.74	30.22	4.85	23.98	45.35	54.00	-8.65	AV	PASS
	V	2500.00	62.37	30.22	4.85	23.98	60.98	74.00	-13.02	PK	PASS
	V	2500.00	47.10	30.22	4.85	23.98	45.71	54.00	-8.29	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: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level 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.



Temperature :	25.9℃	Relative Humidity :	52%
Pressure :	101kPa	Test Voltage :	DC 5 V

Please refer to APPENDIX WIFI

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	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
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.



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7.6 TEST RESULT

Temperature :	25.8℃	Relative Humidity :	52%
Pressure :	101kPa	Test Voltage :	DC 5 V
Test Mode :	TX Mode		

Please refer to APPENDIX WIFI

8. 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)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the Power meter

8.6 TEST RESULT

Temperature :	25.3℃	Relative Humidity :	55%
Pressure :	101kPa	Test Voltage :	DC 5V

Please refer to APPENDIX WIFI

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 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, 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 WIFI

**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 -0.93dBi, reference to the appendix II for details	



11. APPENDIX WIFI

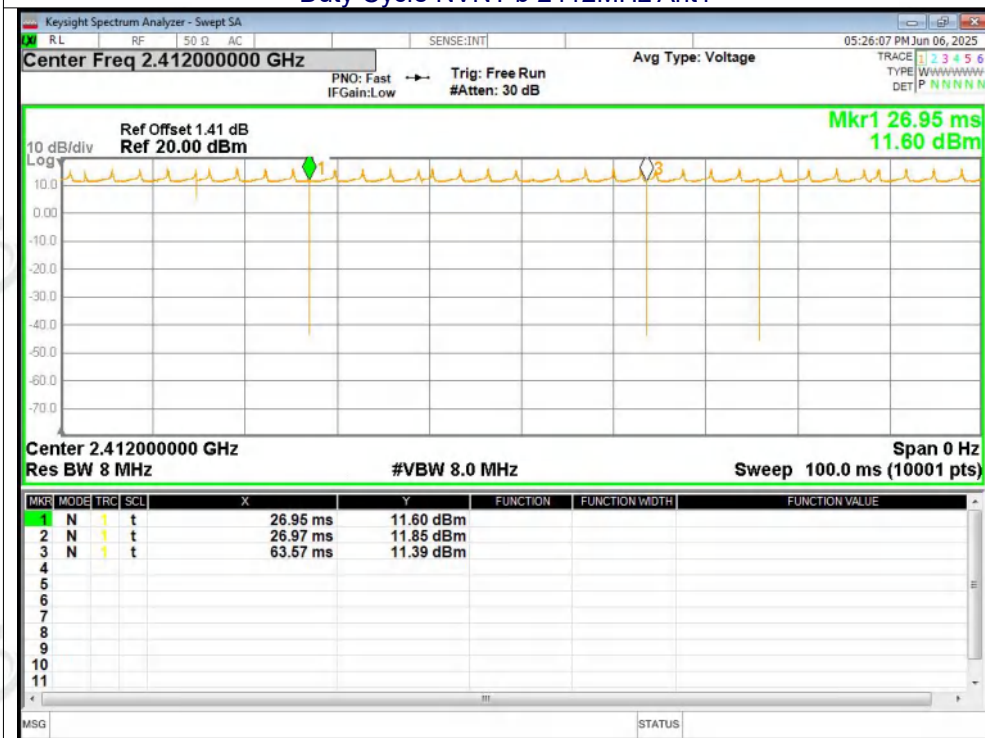
11.1 DUTY CYCLE

Condition	Mode	Frequency (MHz)	T _{on} ms	T _{total} ms	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	36.60	36.62	99.95	0	0.03
NVNT	b	2437	36.60	36.62	99.95	0	0.03
NVNT	b	2462	12.19	12.21	99.84	0	0.08
NVNT	g	2412	2.03	2.53	80.24	0.96	0.49
NVNT	g	2437	2.03	2.53	80.24	0.96	0.49
NVNT	g	2462	2.02	2.53	79.84	0.98	0.5
NVNT	n20	2412	0.23	0.73	31.51	5.02	4.35
NVNT	n20	2437	0.23	0.73	31.51	5.02	4.35
NVNT	n20	2462	0.22	0.73	30.14	5.21	4.55
NVNT	n40	2422	0.13	0.63	20.63	6.86	7.69
NVNT	n40	2437	0.13	0.63	20.63	6.86	7.69
NVNT	n40	2452	0.13	0.63	20.63	6.86	7.69

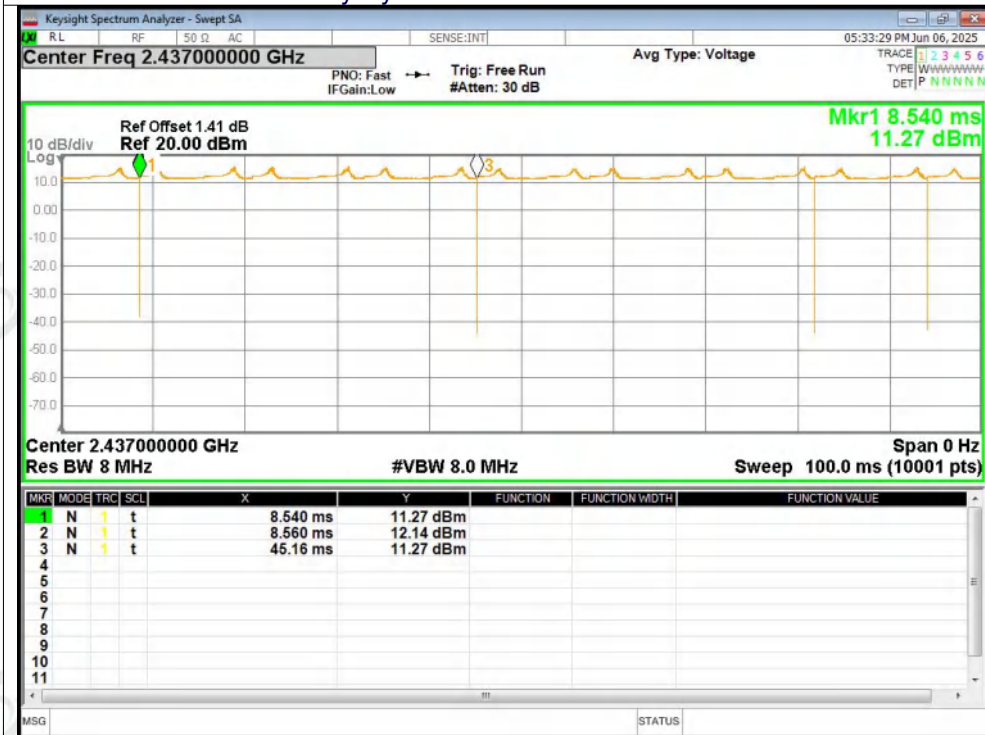
Note:

1. Duty Cycle = T_{on} / T_{total} 2. Correction Factor = $10 \log (1 / \text{Duty Cycle})$.3. $1/T = 1/T_{on}$

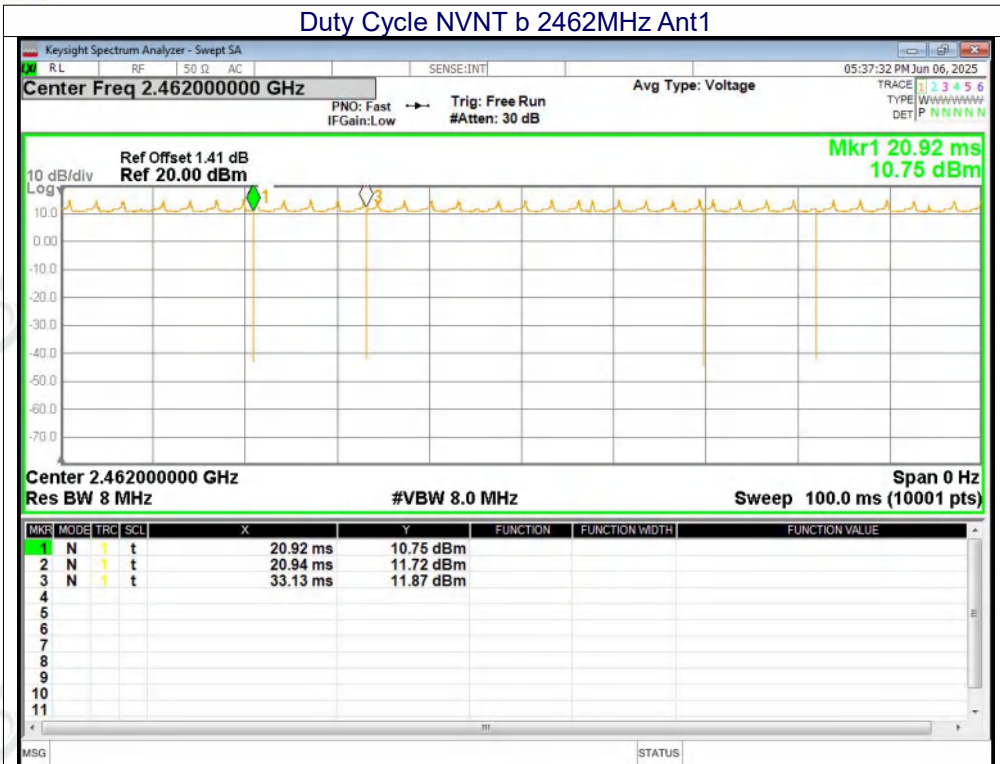
Test Graphs Duty Cycle NVNT b 2412MHz Ant1



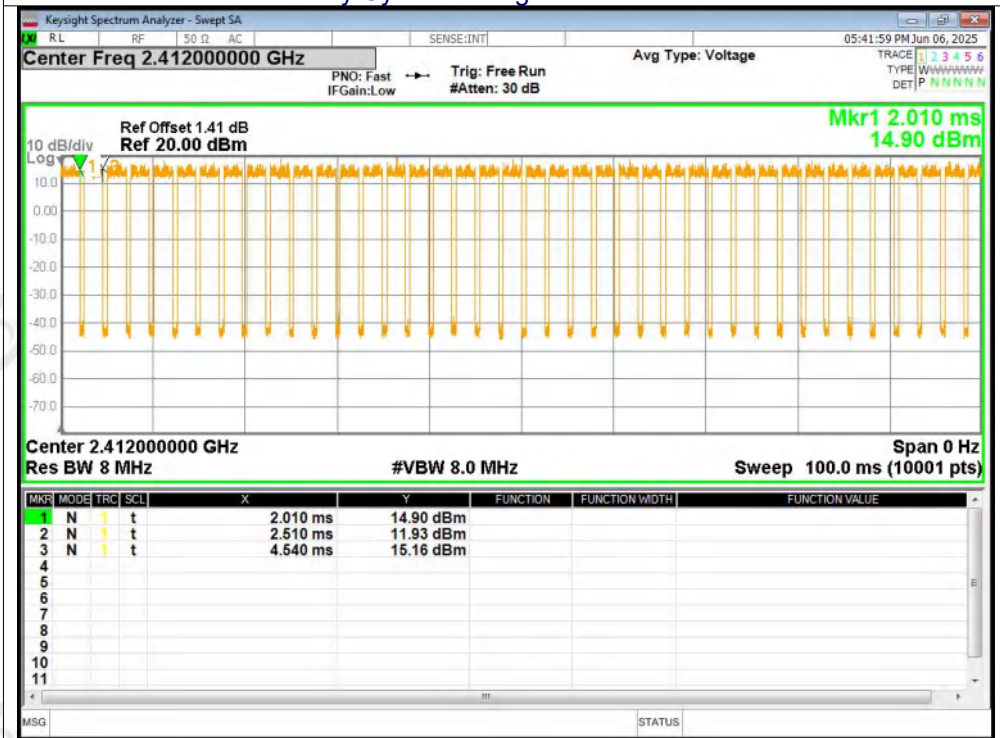
Duty Cycle NVNT b 2437MHz Ant1

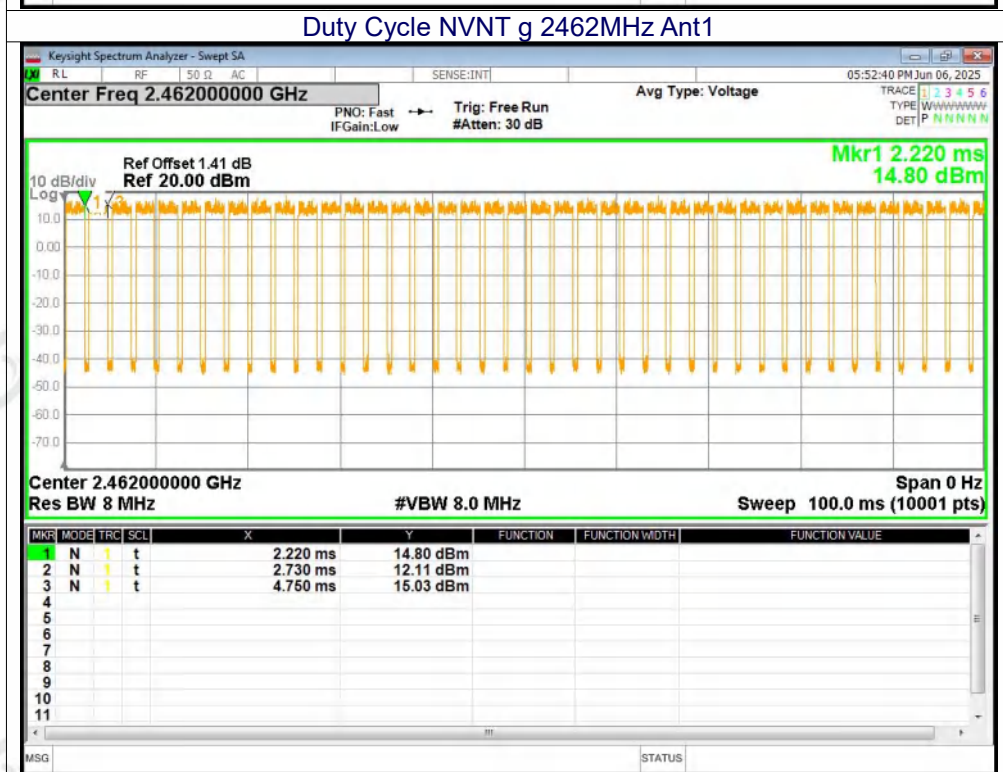
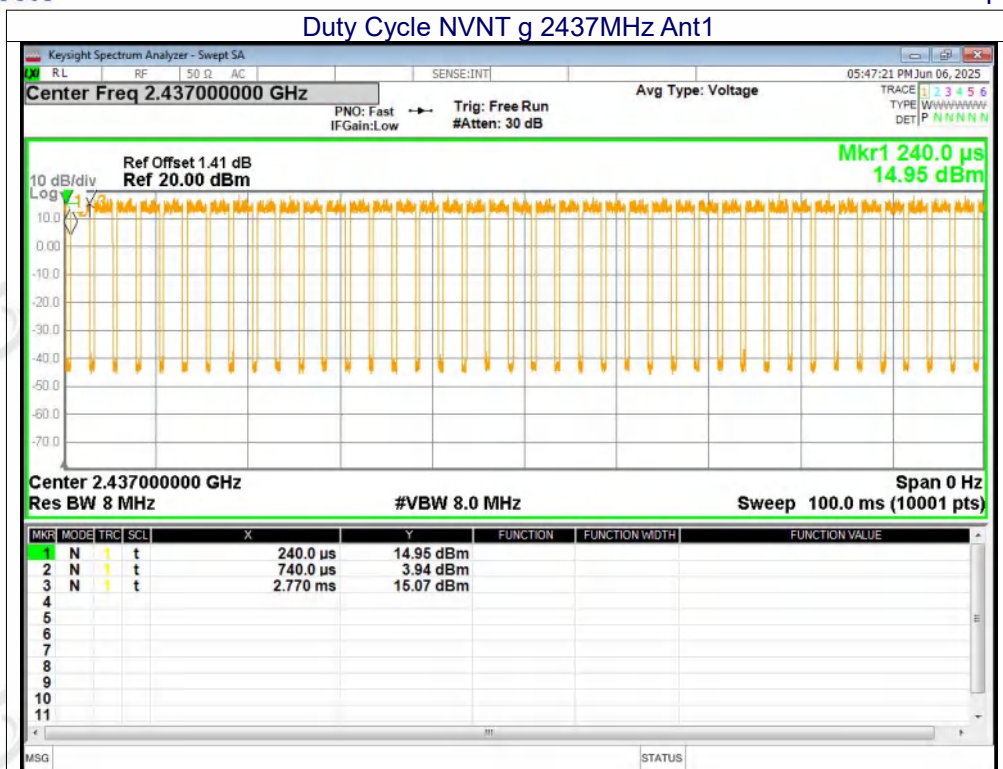


Duty Cycle NVNT b 2462MHz Ant1

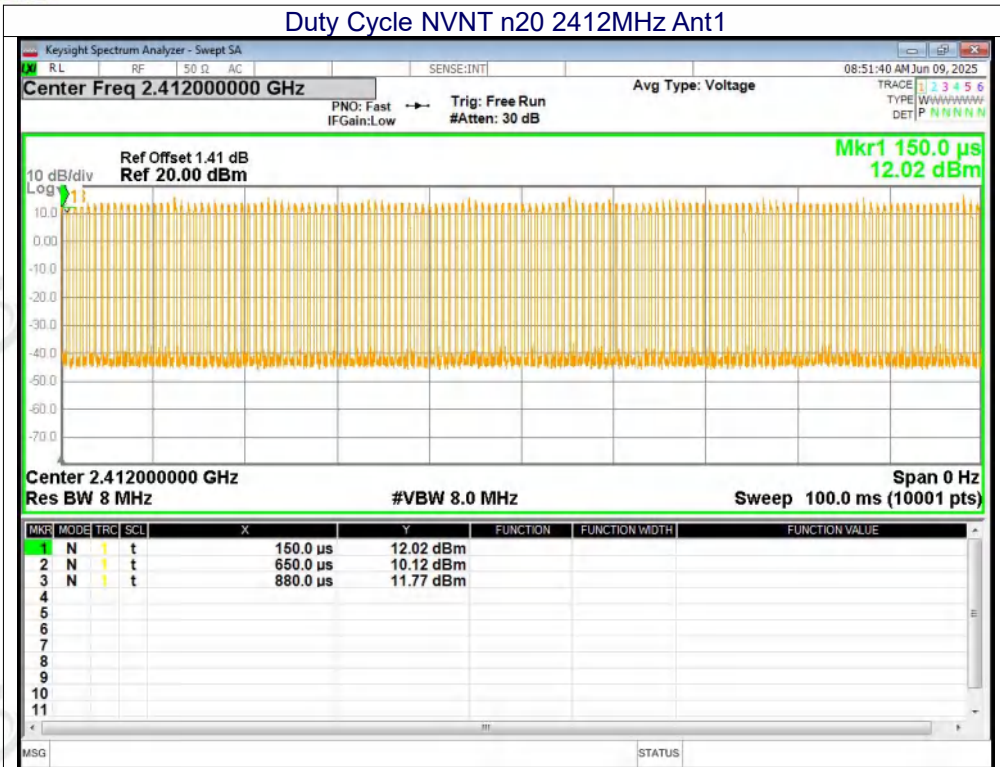


Duty Cycle NVNT g 2412MHz Ant1

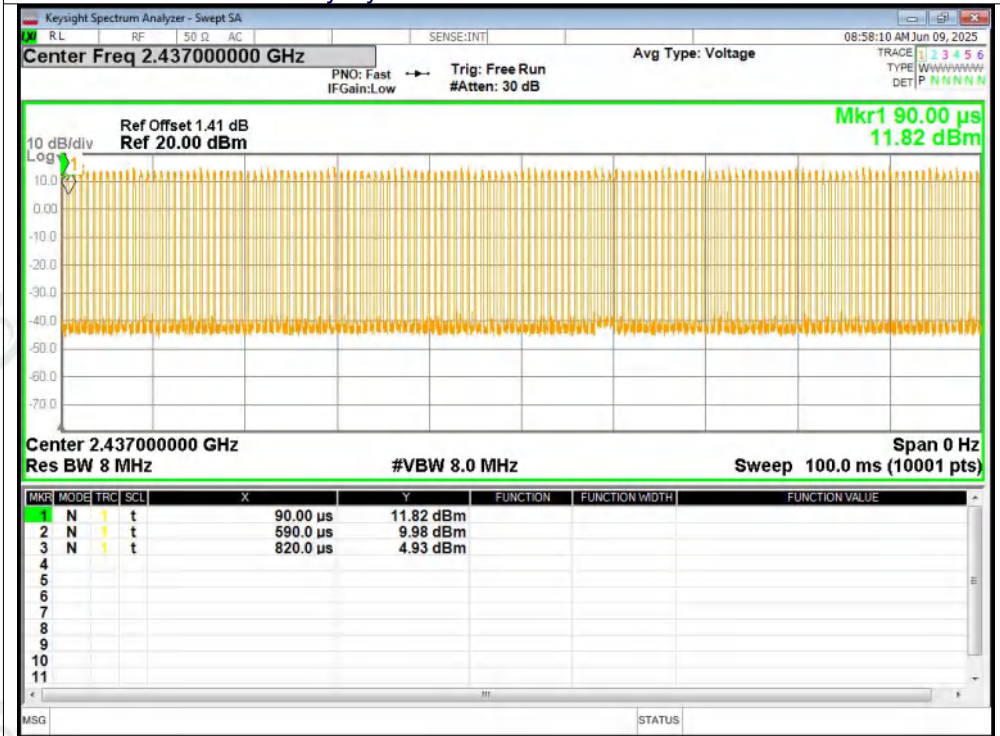




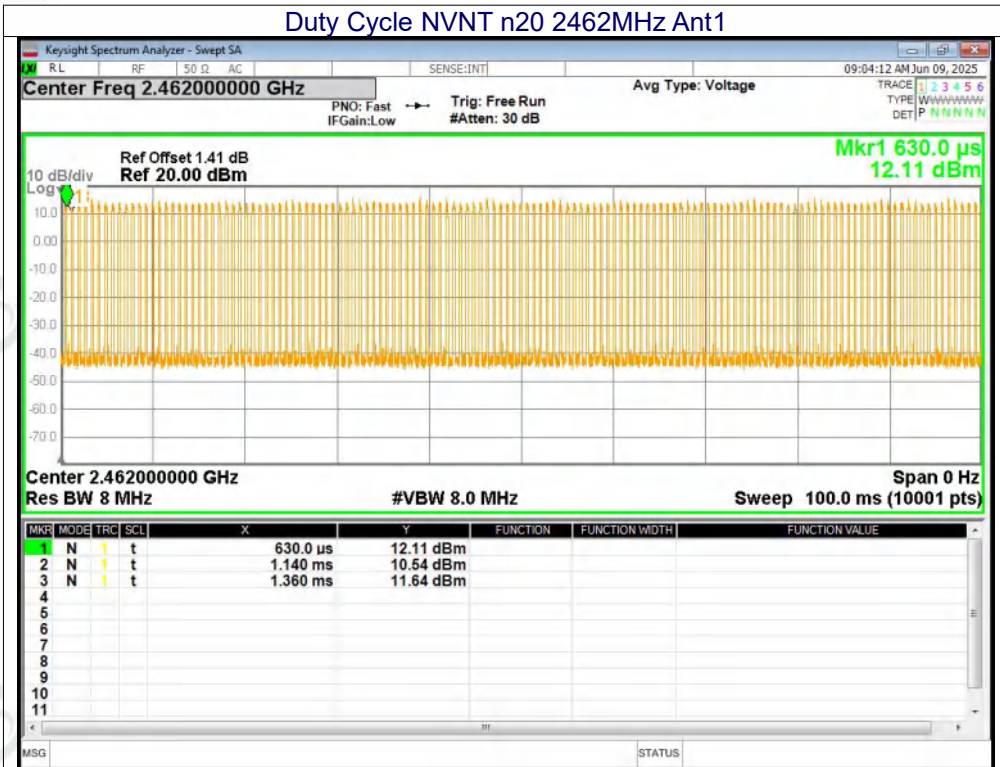
Duty Cycle NVNT n20 2412MHz Ant1



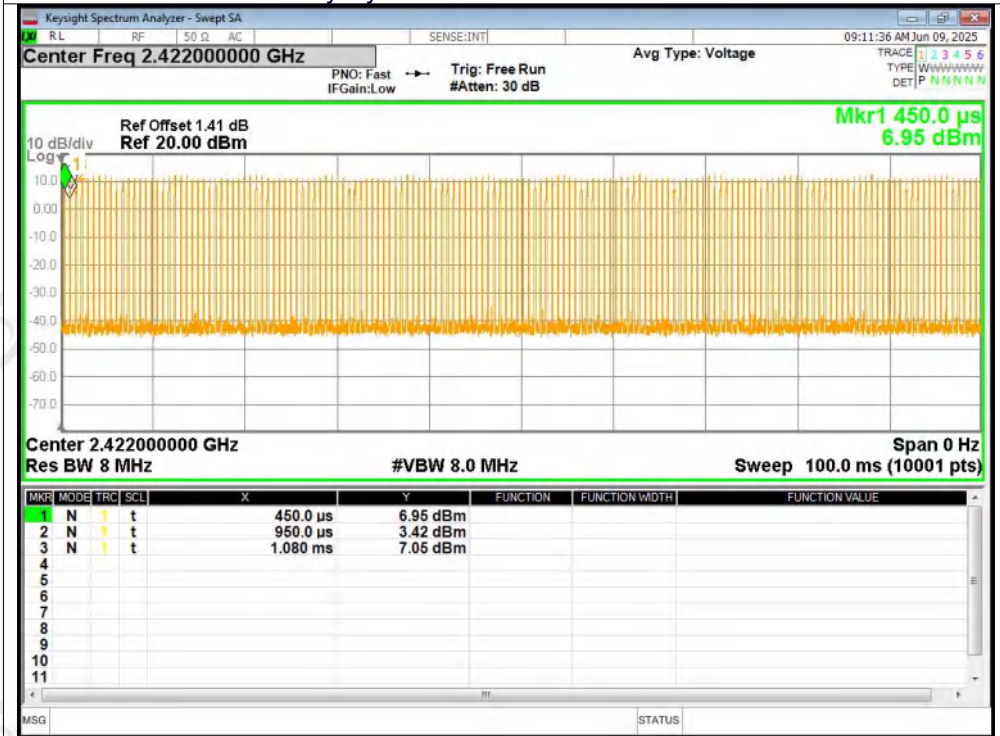
Duty Cycle NVNT n20 2437MHz Ant1



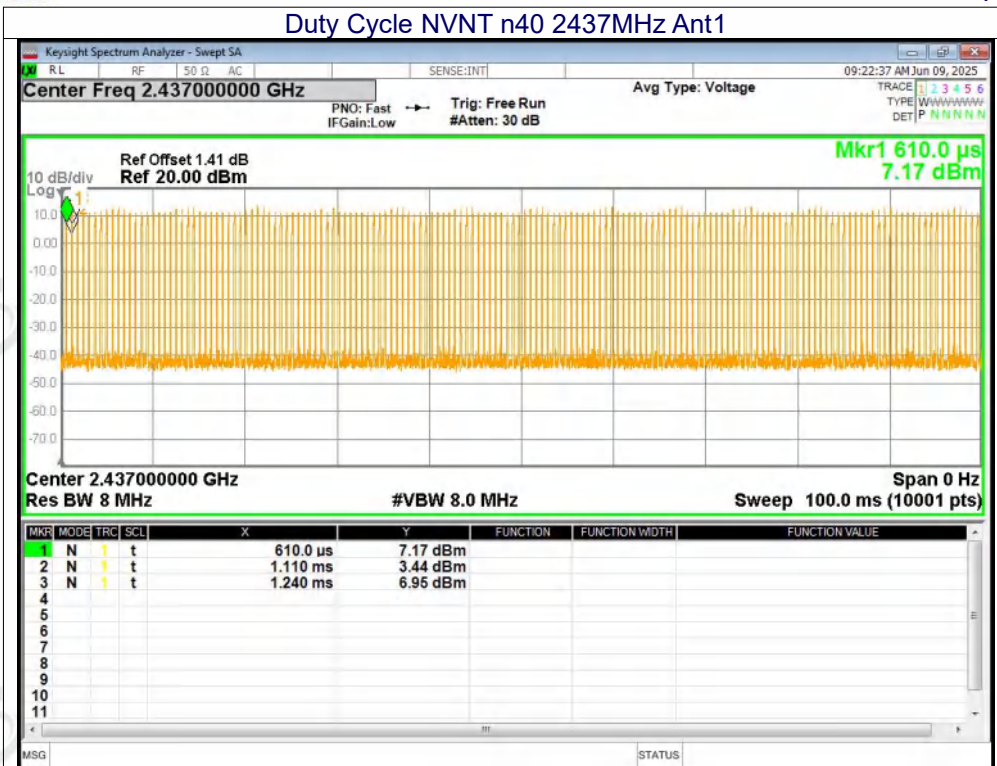
Duty Cycle NVNT n20 2462MHz Ant1



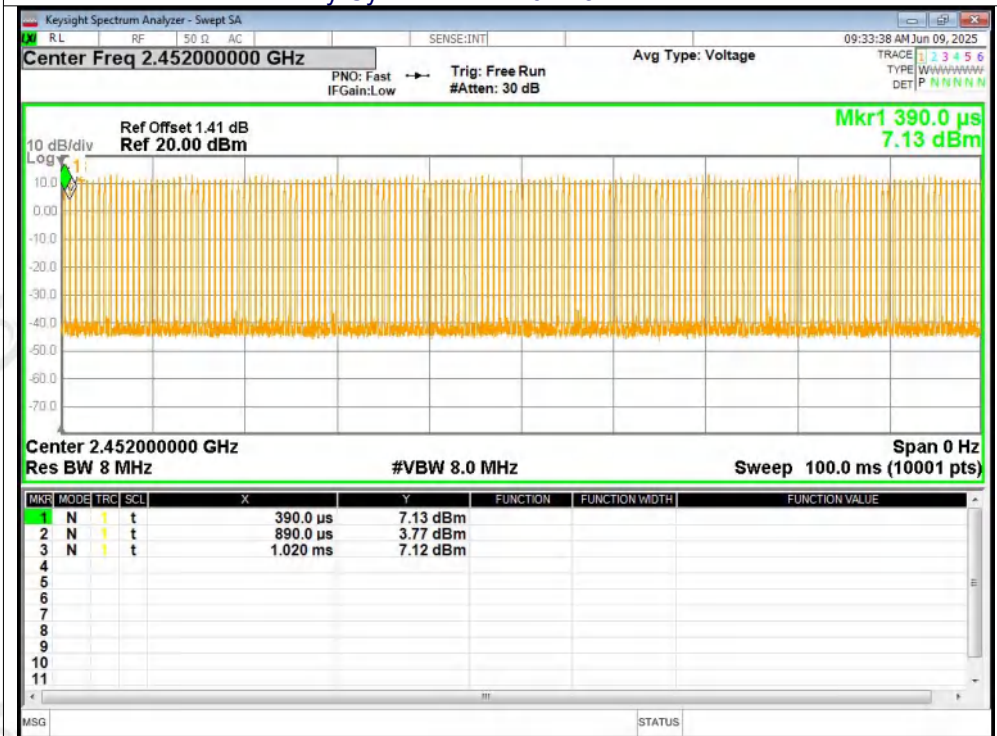
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1





11.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	8.37	30	Pass
NVNT	b	2437	Ant1	8.34	30	Pass
NVNT	b	2462	Ant1	7.92	30	Pass
NVNT	g	2412	Ant1	8.77	30	Pass
NVNT	g	2437	Ant1	8.35	30	Pass
NVNT	g	2462	Ant1	8.10	30	Pass
NVNT	n20	2412	Ant1	7.91	30	Pass
NVNT	n20	2437	Ant1	8.27	30	Pass
NVNT	n20	2462	Ant1	8.77	30	Pass
NVNT	n40	2422	Ant1	8.63	30	Pass
NVNT	n40	2437	Ant1	8.56	30	Pass
NVNT	n40	2452	Ant1	8.56	30	Pass

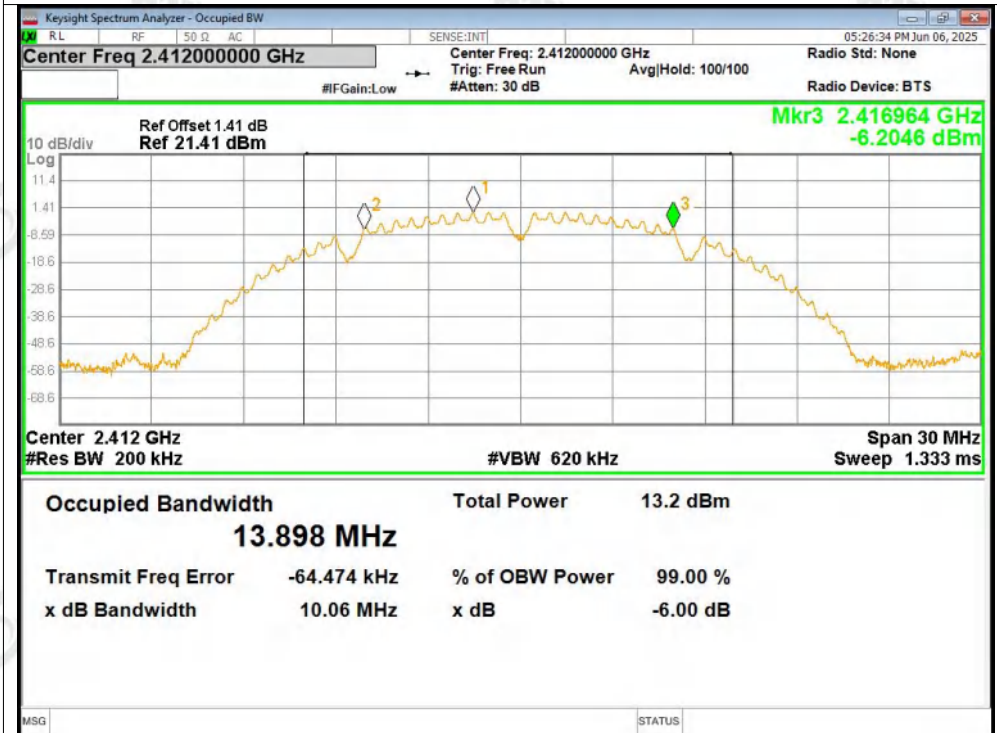


11.3 -6DB BANDWIDTH

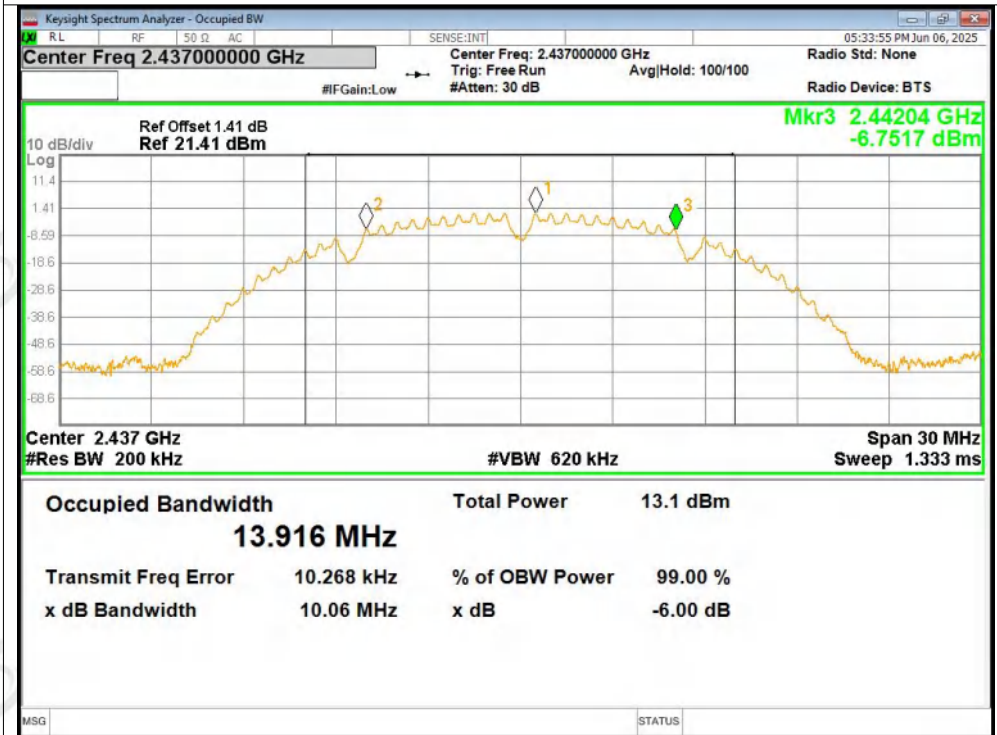
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.057	0.5	Pass
NVNT	b	2437	Ant1	10.059	0.5	Pass
NVNT	b	2462	Ant1	10.072	0.5	Pass
NVNT	g	2412	Ant1	14.355	0.5	Pass
NVNT	g	2437	Ant1	14.773	0.5	Pass
NVNT	g	2462	Ant1	15.066	0.5	Pass
NVNT	n20	2412	Ant1	17.438	0.5	Pass
NVNT	n20	2437	Ant1	17.464	0.5	Pass
NVNT	n20	2462	Ant1	17.551	0.5	Pass
NVNT	n40	2422	Ant1	35.938	0.5	Pass
NVNT	n40	2437	Ant1	35.536	0.5	Pass
NVNT	n40	2452	Ant1	35.006	0.5	Pass

Test Graphs

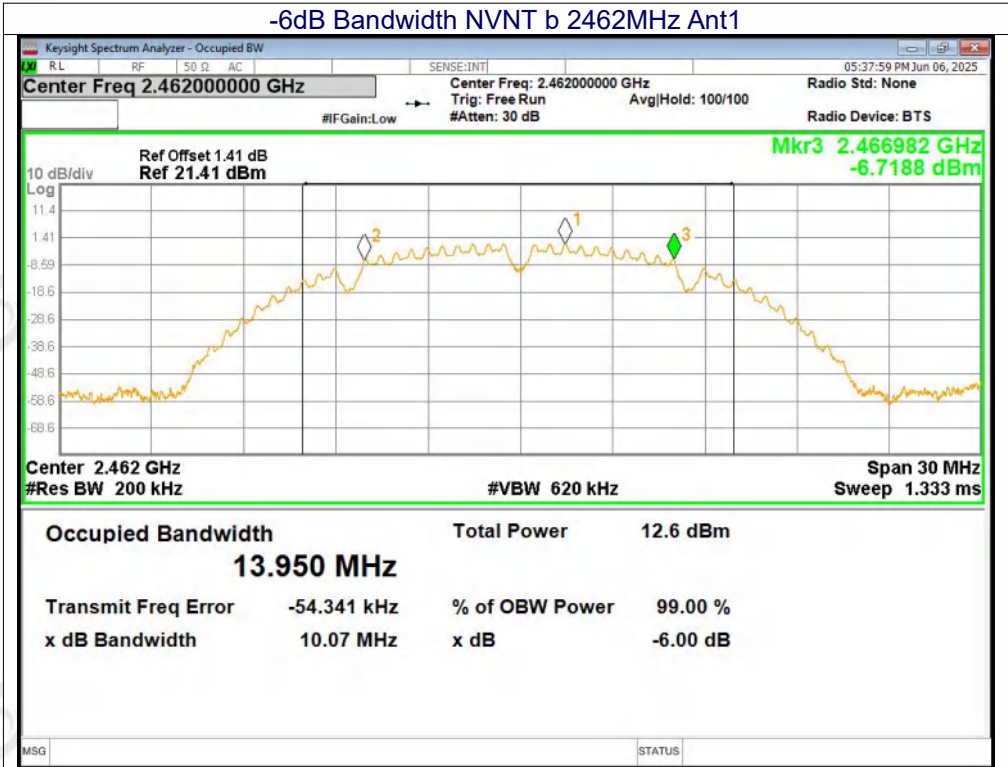
-6dB Bandwidth NVNT b 2412MHz Ant1



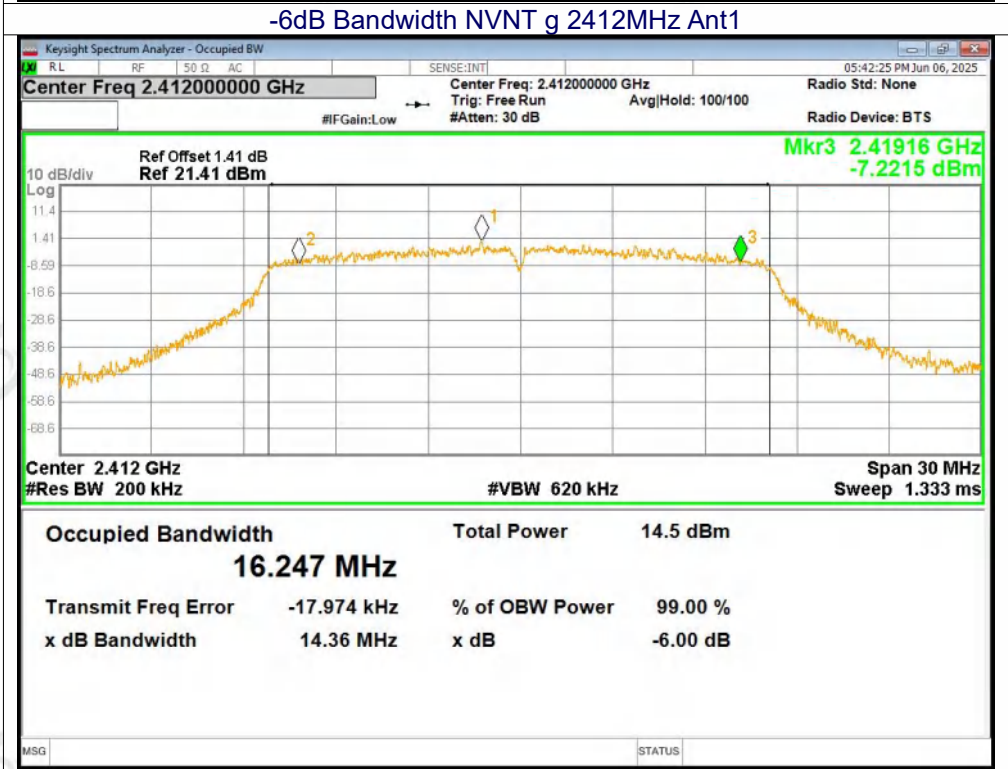
-6dB Bandwidth NVNT b 2437MHz Ant1



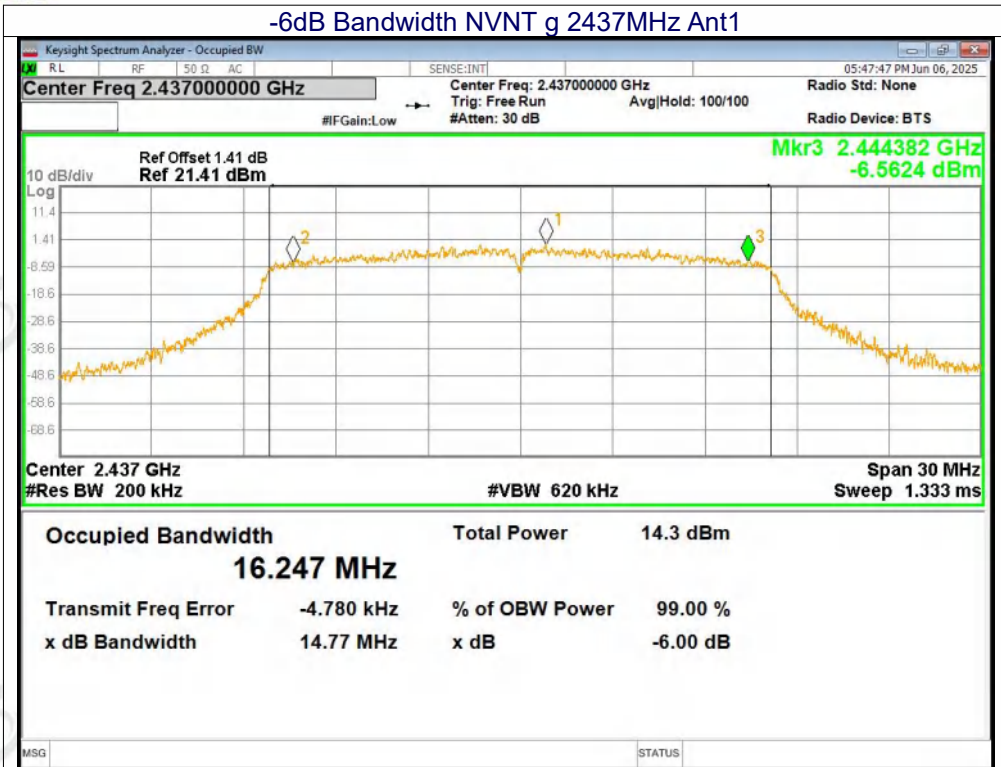
-6dB Bandwidth NVNT b 2462MHz Ant1



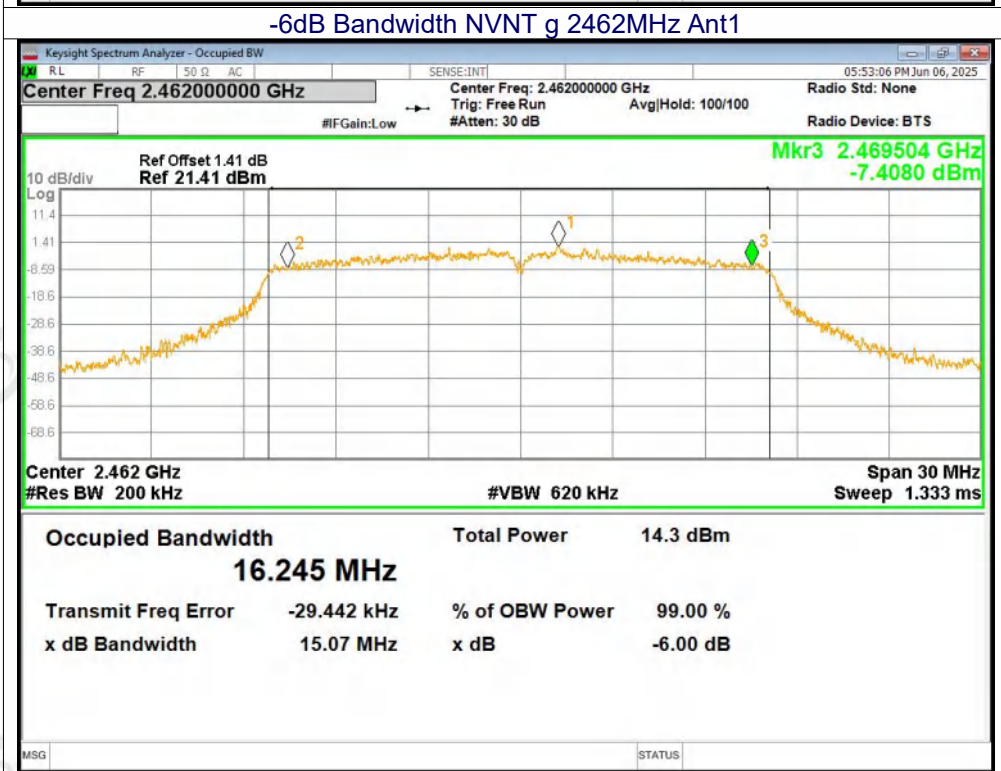
-6dB Bandwidth NVNT g 2412MHz Ant1



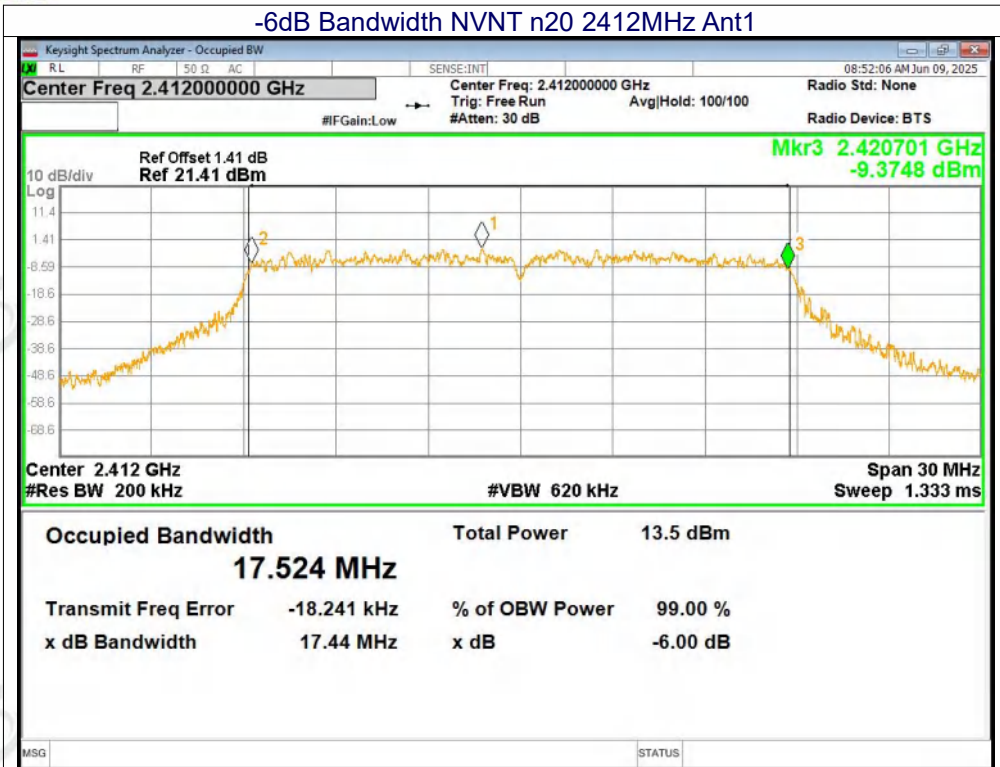
-6dB Bandwidth NVNT g 2437MHz Ant1



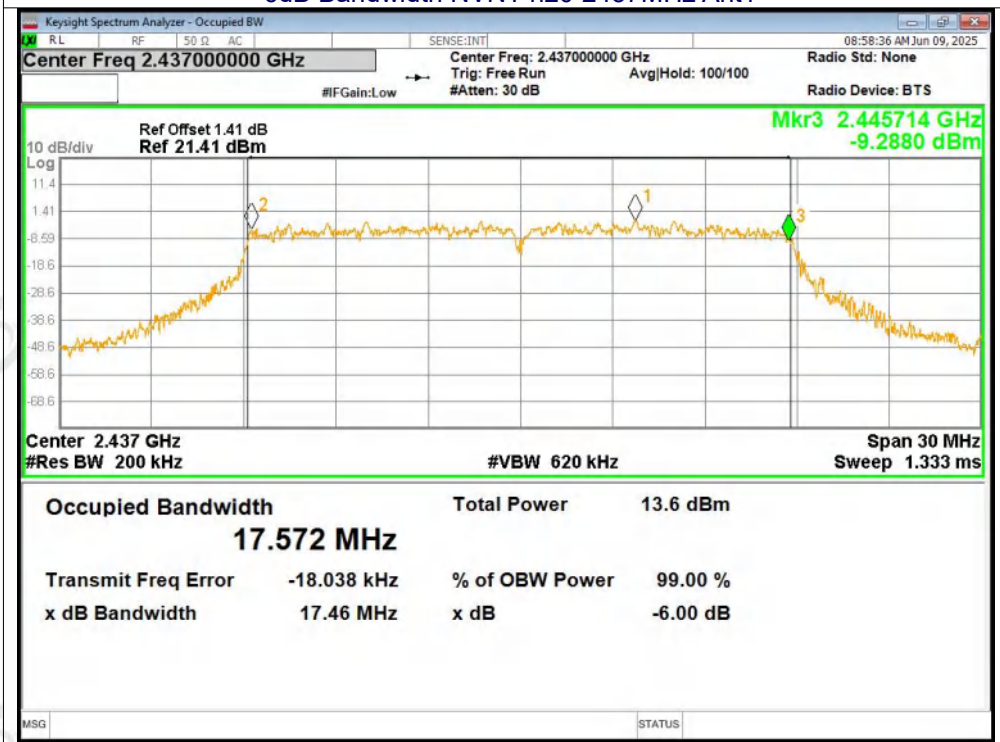
-6dB Bandwidth NVNT g 2462MHz Ant1



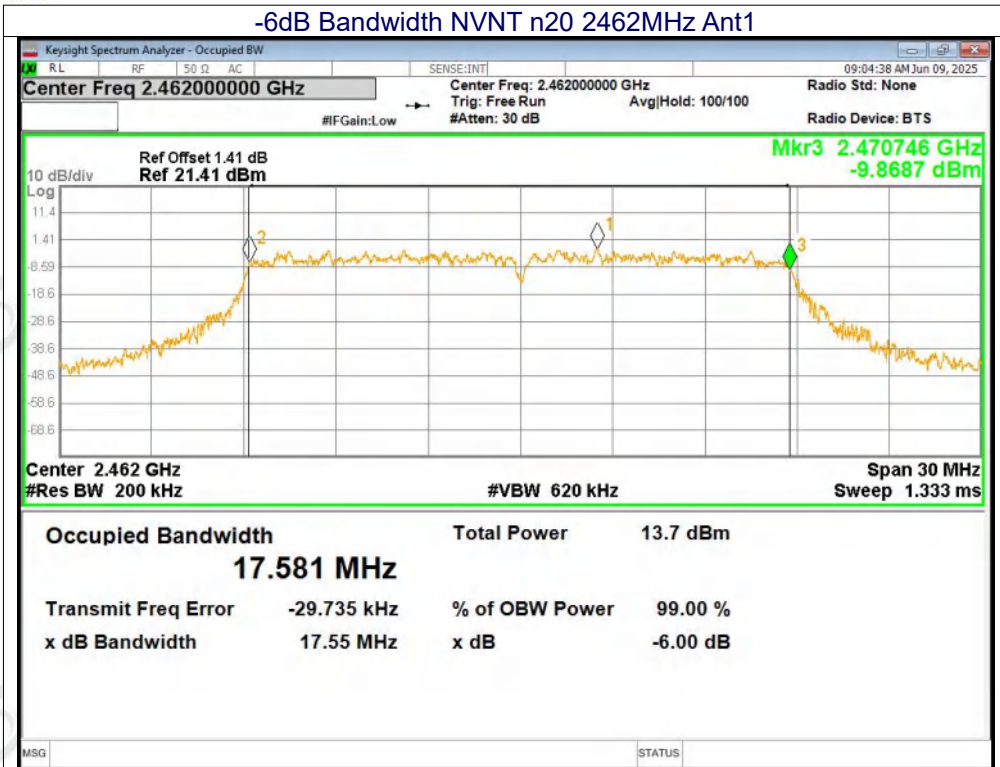
-6dB Bandwidth NVNT n20 2412MHz Ant1



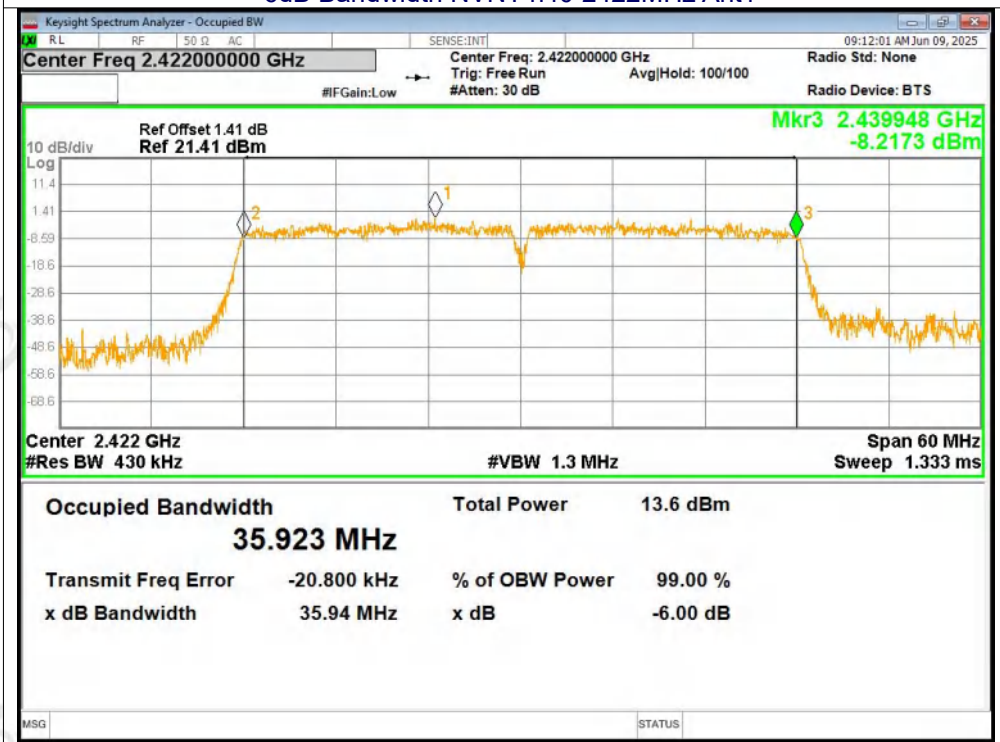
-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1

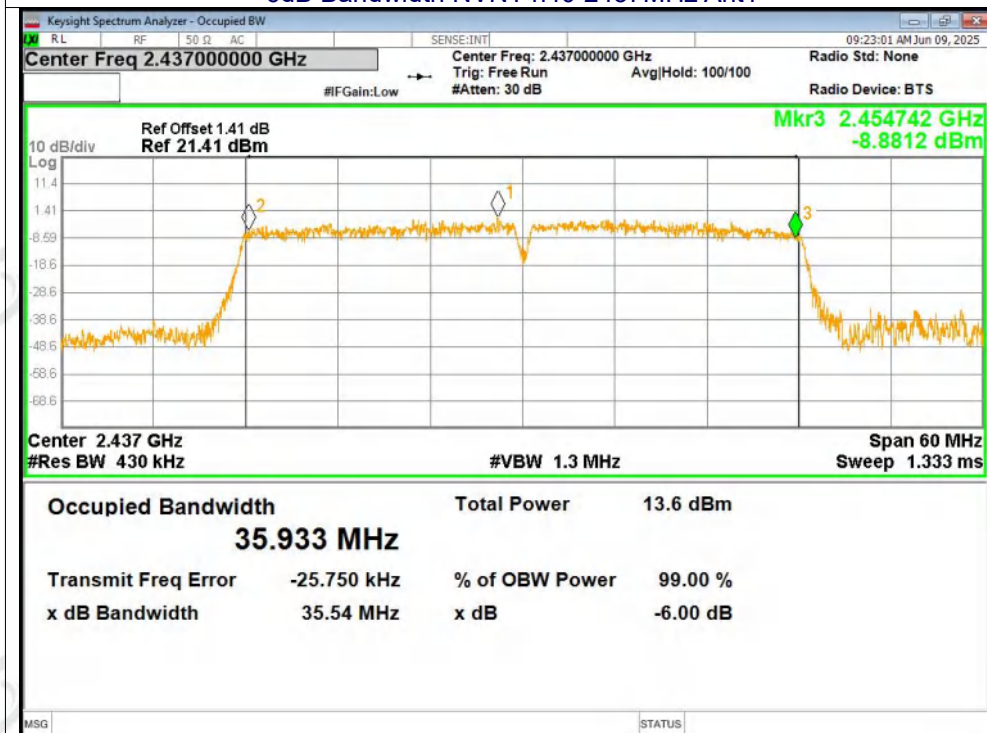


-6dB Bandwidth NVNT n40 2422MHz Ant1

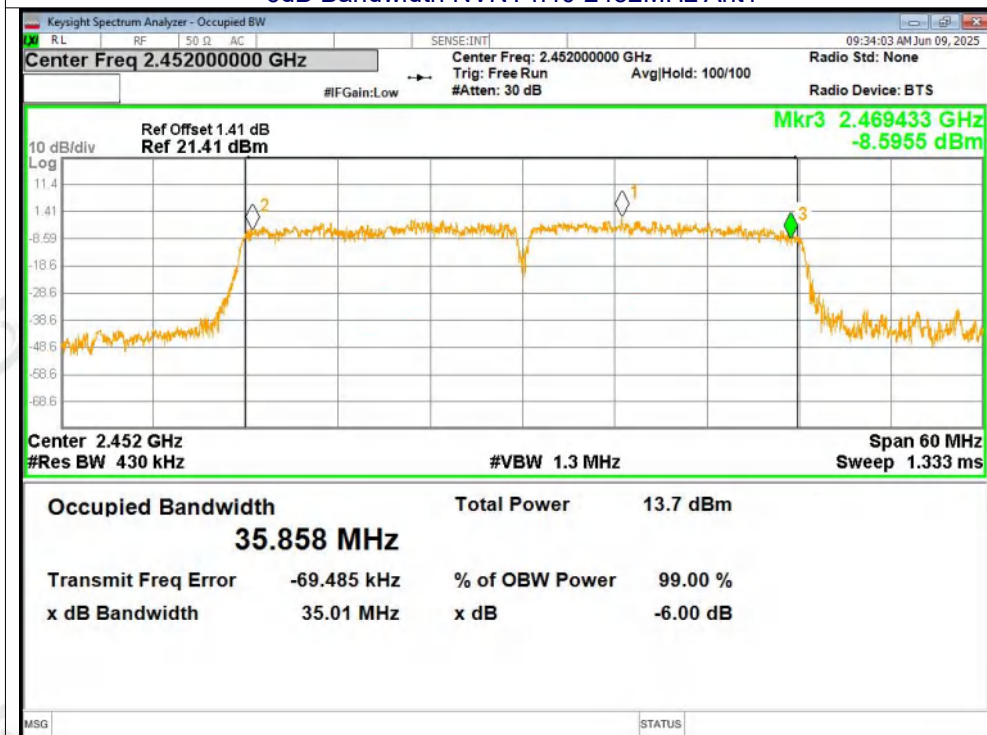




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

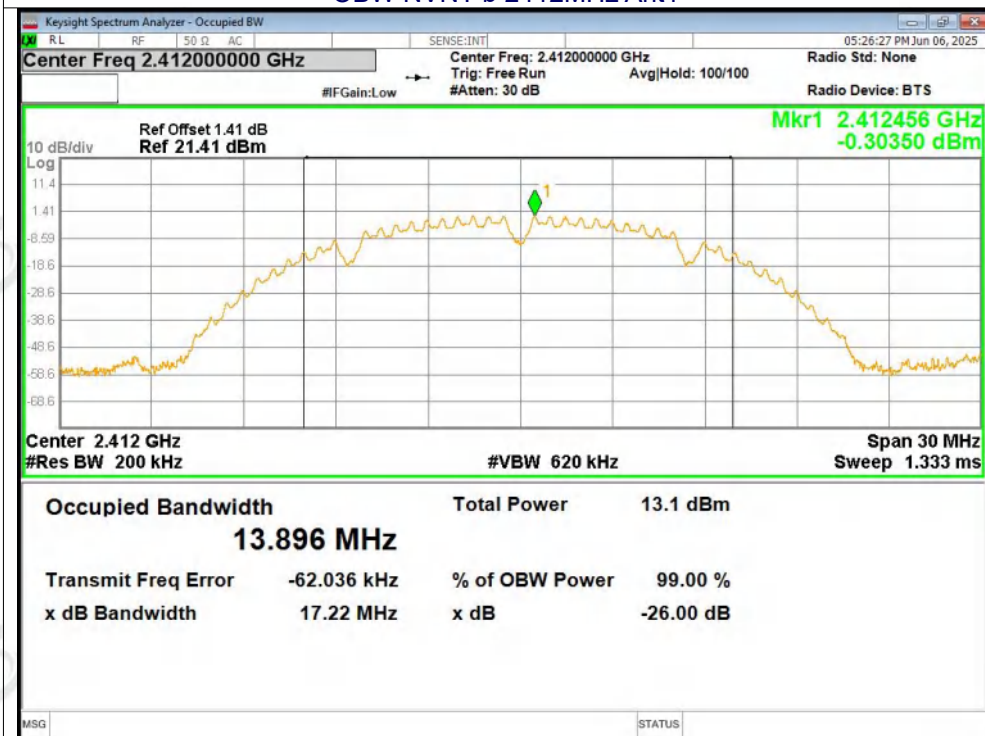




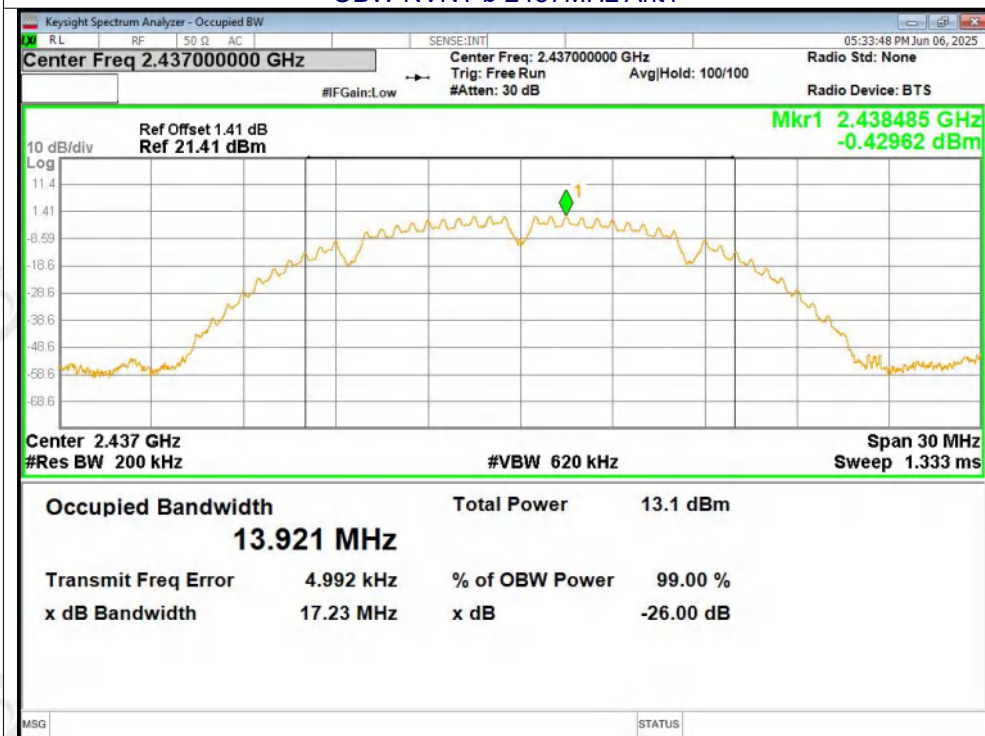
11.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.896
NVNT	b	2437	Ant1	13.921
NVNT	b	2462	Ant1	13.957
NVNT	g	2412	Ant1	16.21
NVNT	g	2437	Ant1	16.243
NVNT	g	2462	Ant1	16.241
NVNT	n20	2412	Ant1	17.576
NVNT	n20	2437	Ant1	17.586
NVNT	n20	2462	Ant1	17.605
NVNT	n40	2422	Ant1	35.898
NVNT	n40	2437	Ant1	35.85
NVNT	n40	2452	Ant1	35.825

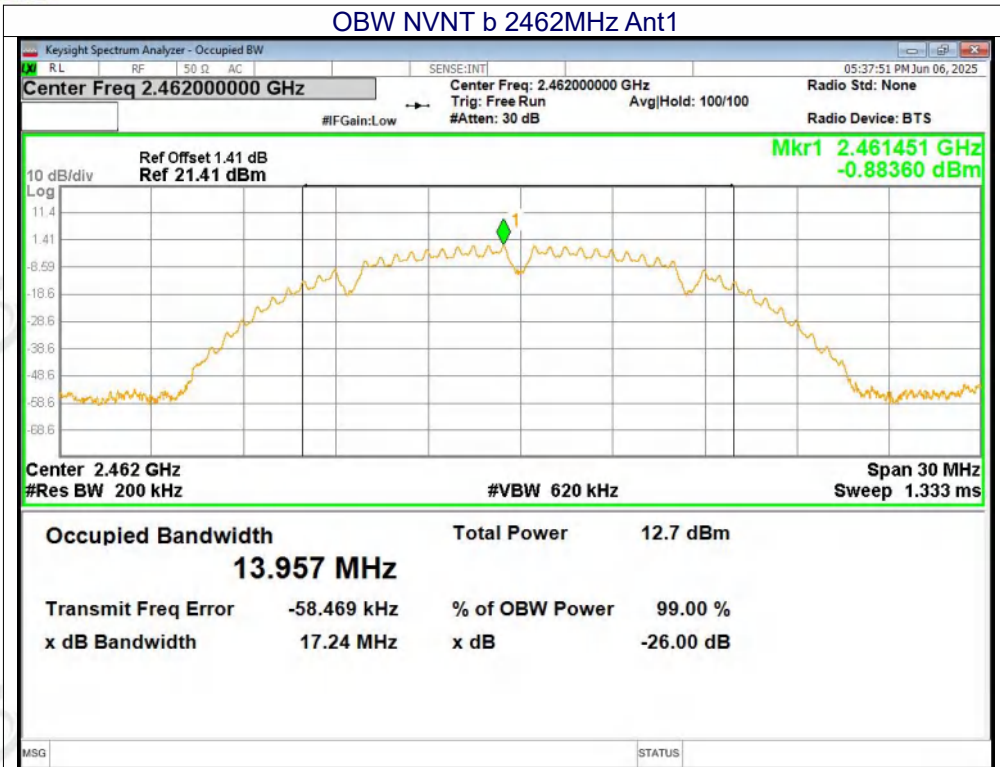
Test Graphs
OBW NVNT b 2412MHz Ant1



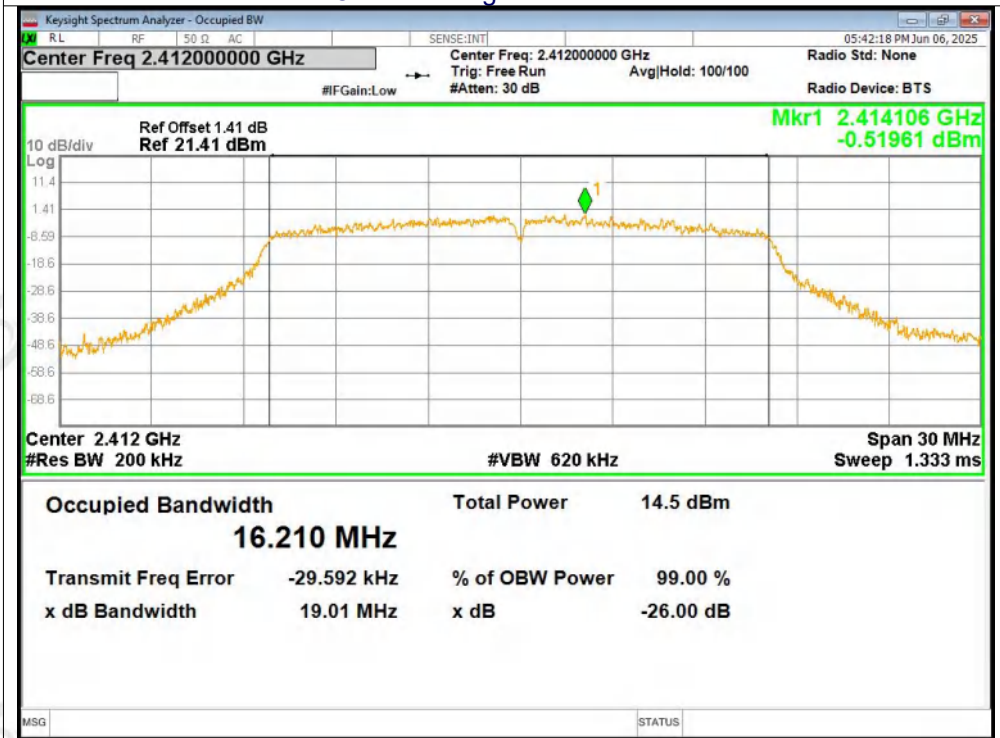
OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1

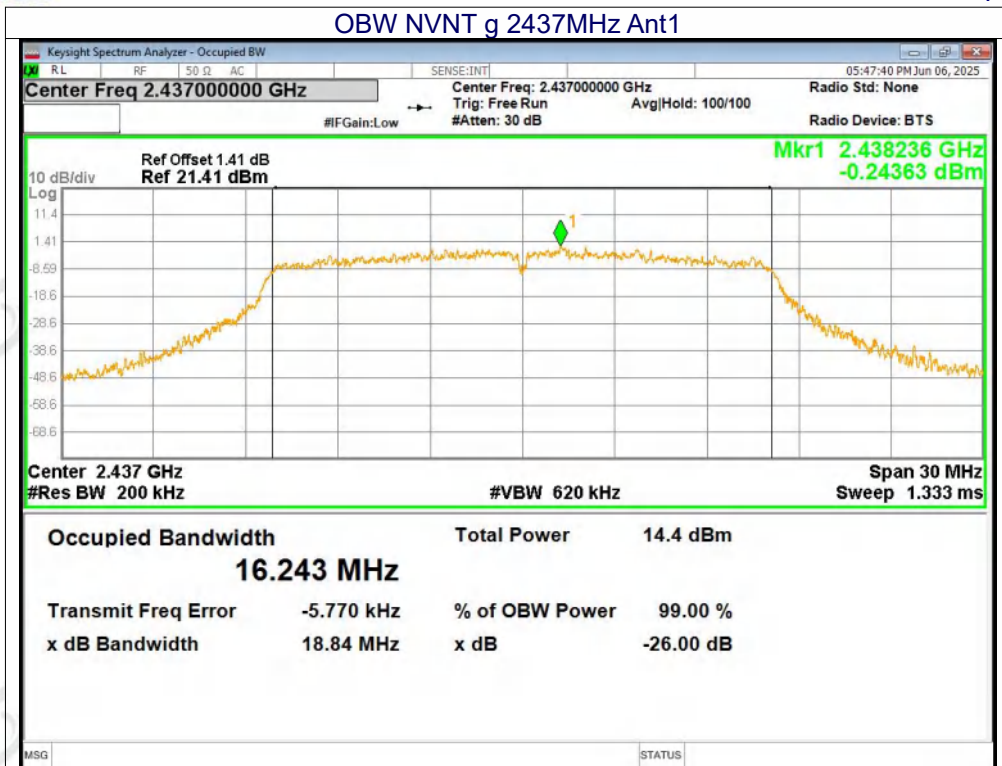


OBW NVNT g 2412MHz Ant1

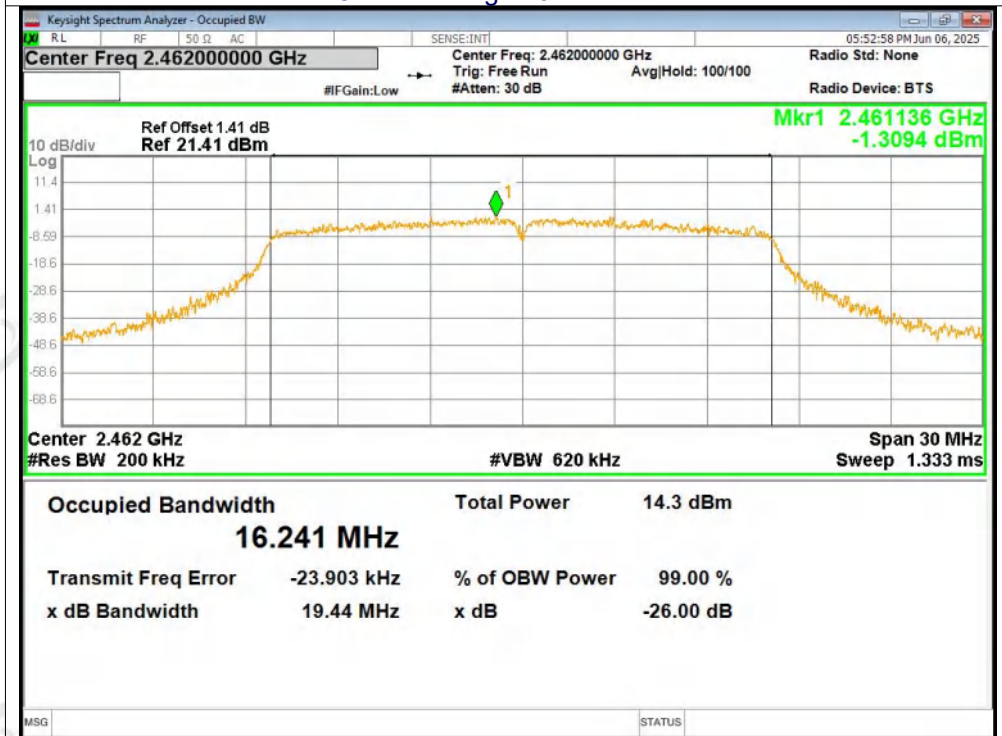




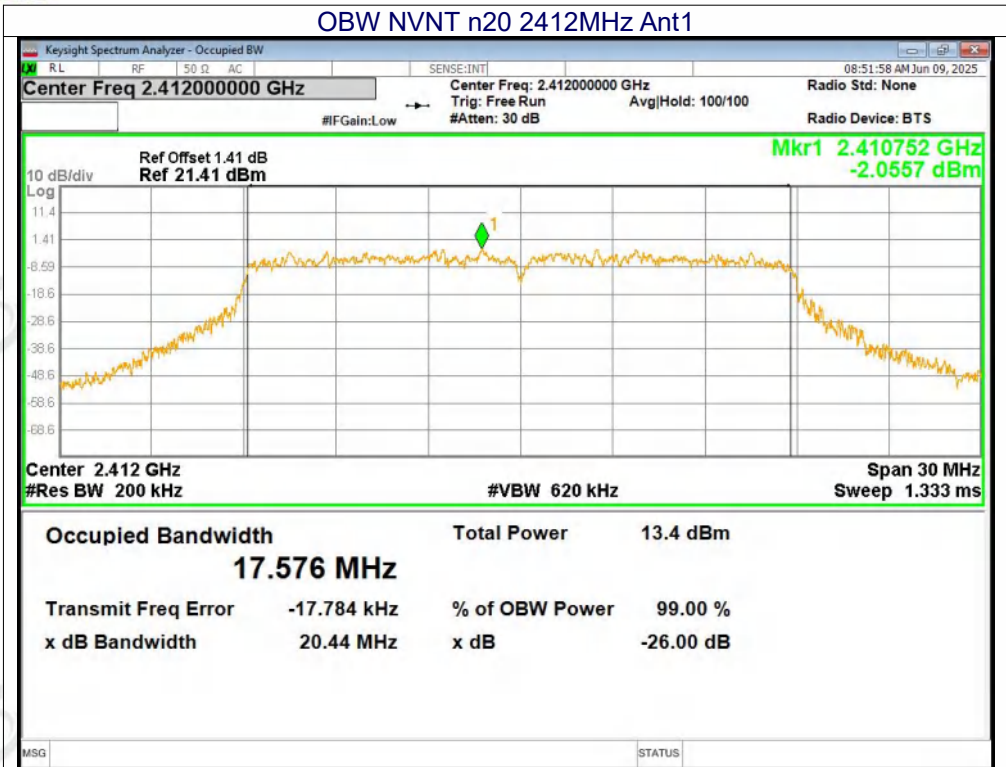
OBW NVNT g 2437MHz Ant1



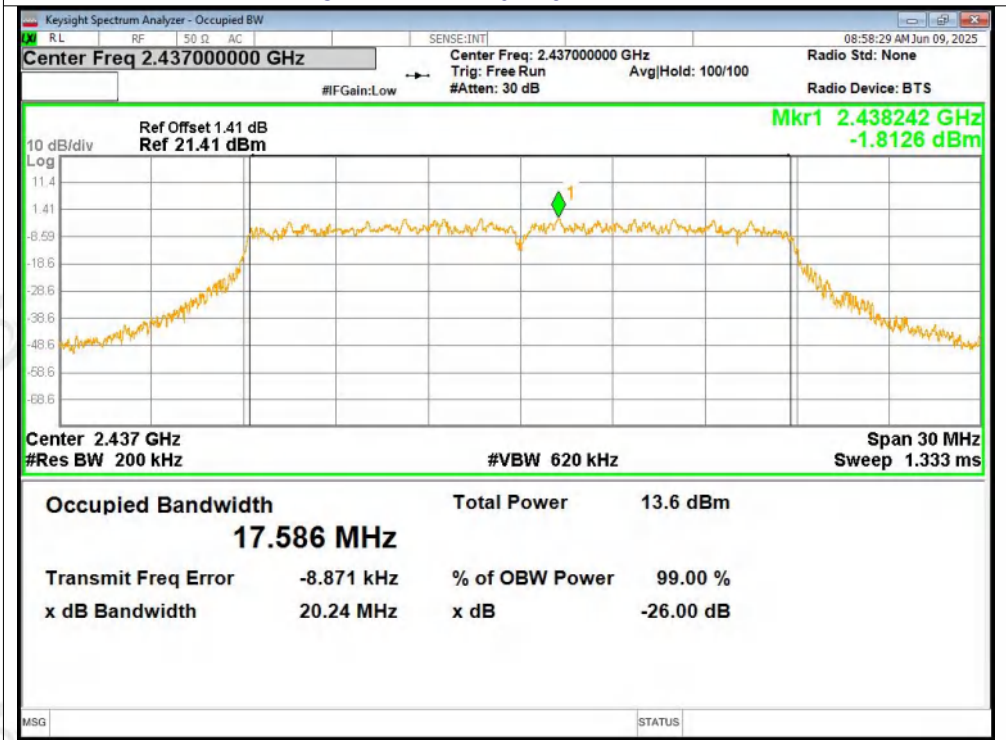
OBW NVNT g 2462MHz Ant1



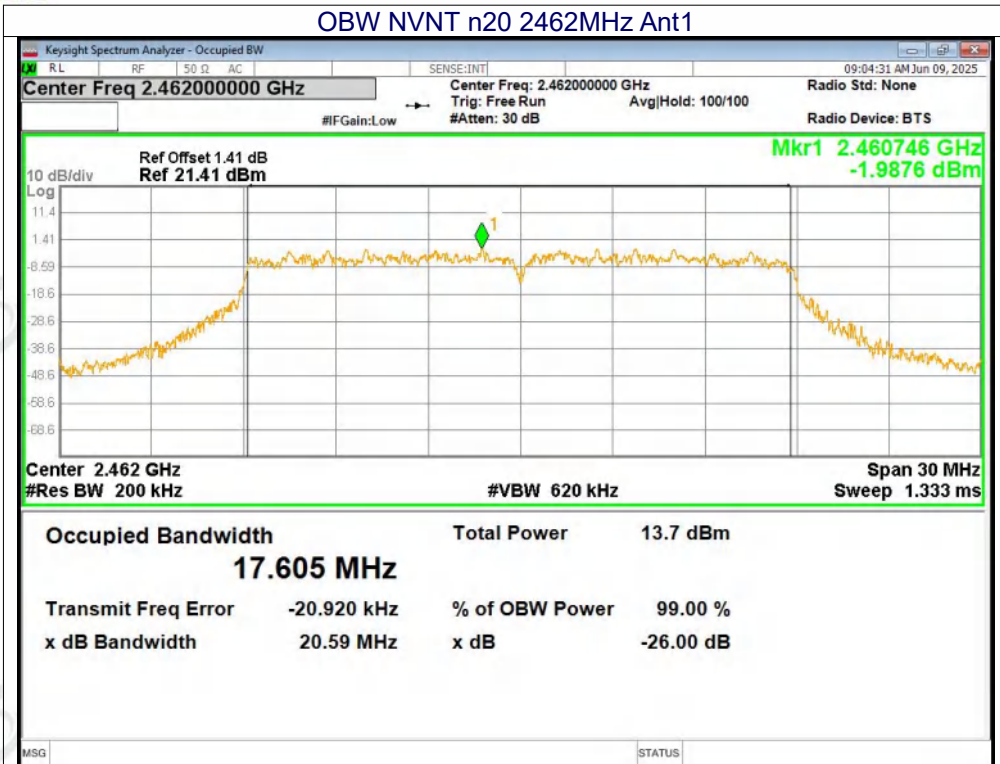
OBW NVNT n20 2412MHz Ant1



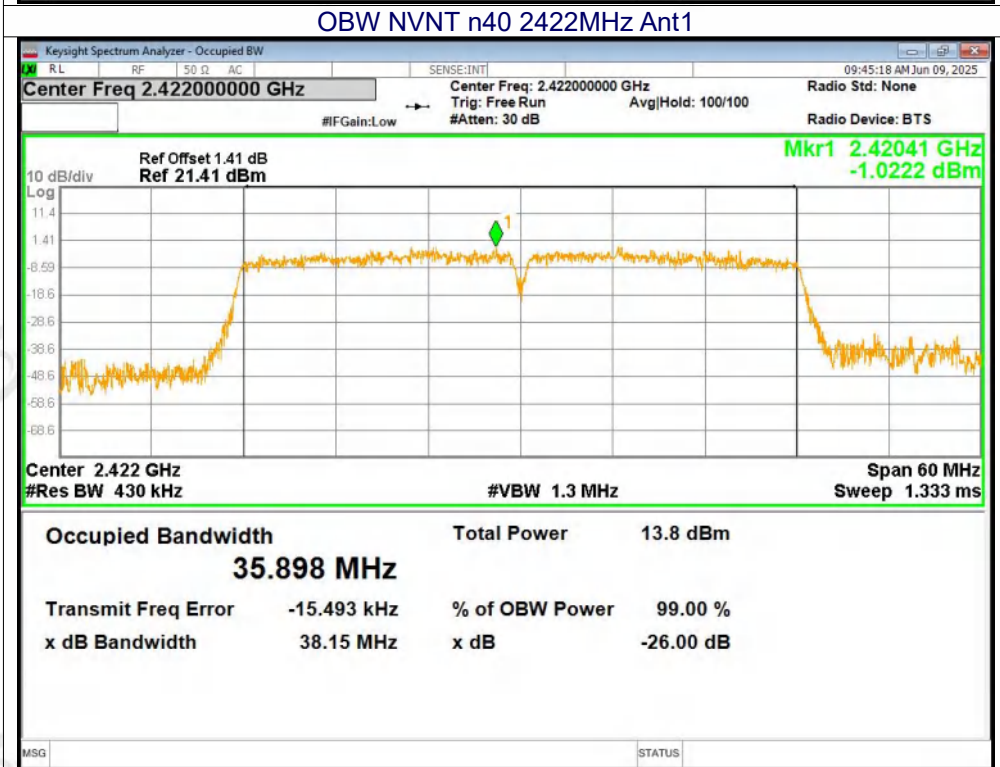
OBW NVNT n20 2437MHz Ant1



OBW NVNT n20 2462MHz Ant1

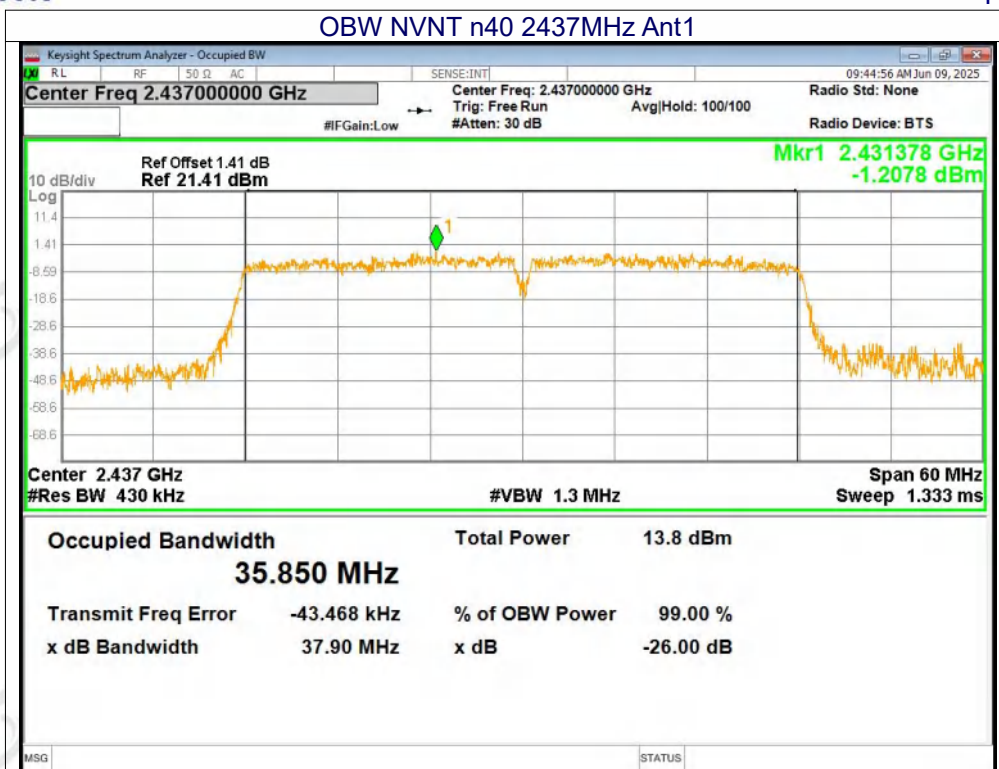


OBW NVNT n40 2422MHz Ant1

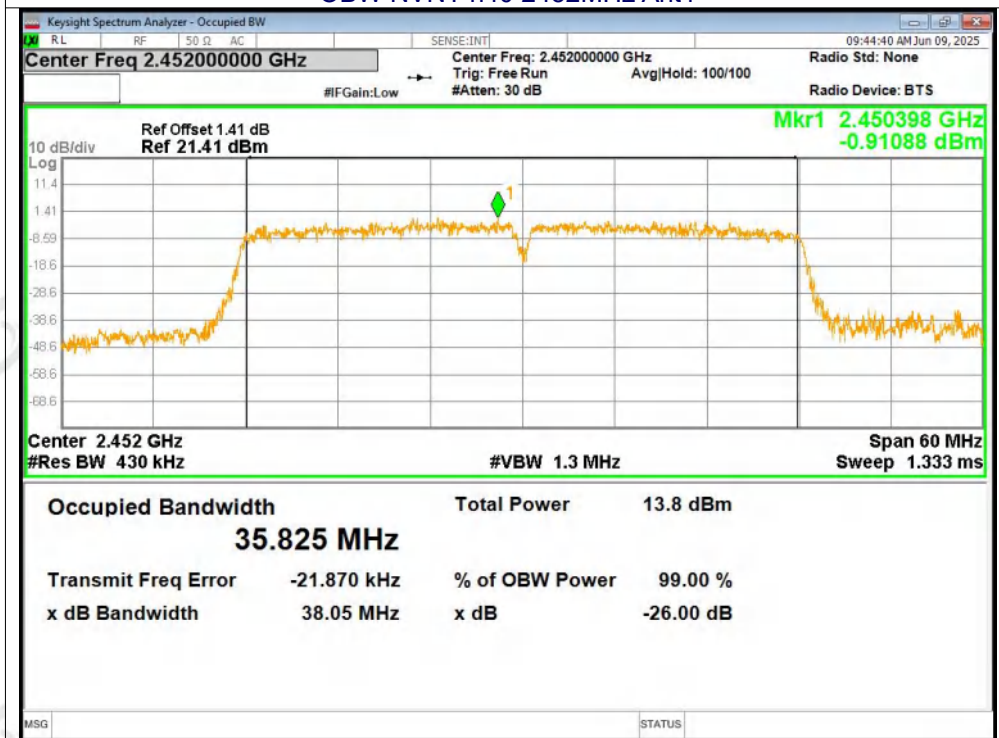




OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1

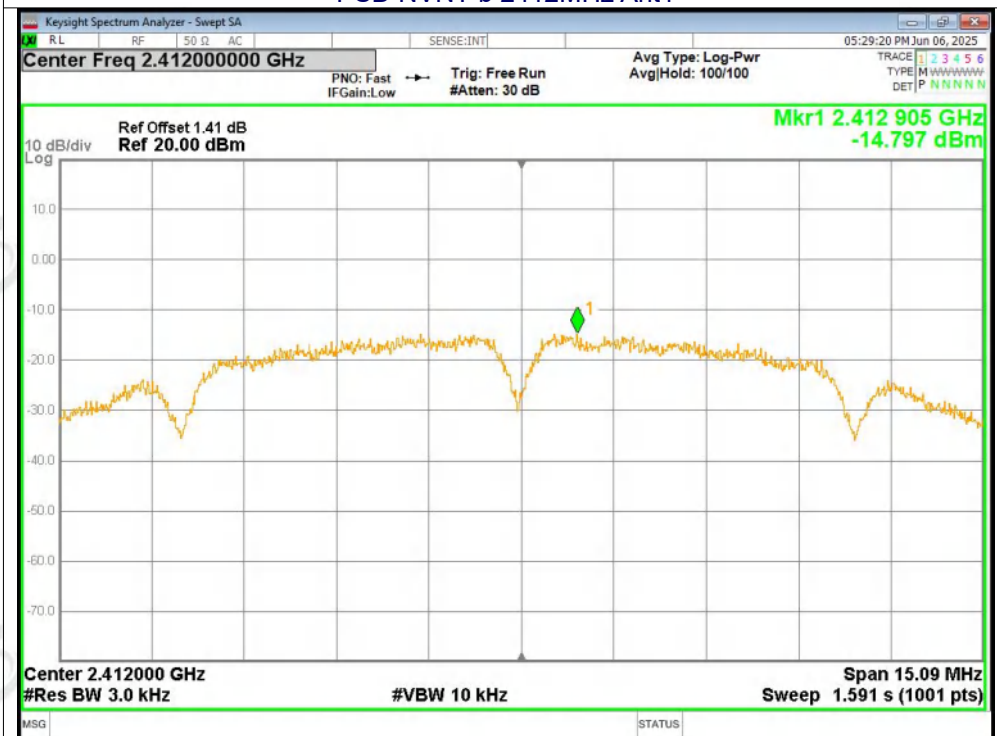




11.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-14.8	8	Pass
NVNT	b	2437	Ant1	-14.83	8	Pass
NVNT	b	2462	Ant1	-14.88	8	Pass
NVNT	g	2412	Ant1	-15.37	8	Pass
NVNT	g	2437	Ant1	-15.55	8	Pass
NVNT	g	2462	Ant1	-15.71	8	Pass
NVNT	n20	2412	Ant1	-17.29	8	Pass
NVNT	n20	2437	Ant1	-17.05	8	Pass
NVNT	n20	2462	Ant1	-17.2	8	Pass
NVNT	n40	2422	Ant1	-21.53	8	Pass
NVNT	n40	2437	Ant1	-21.88	8	Pass
NVNT	n40	2452	Ant1	-21.34	8	Pass

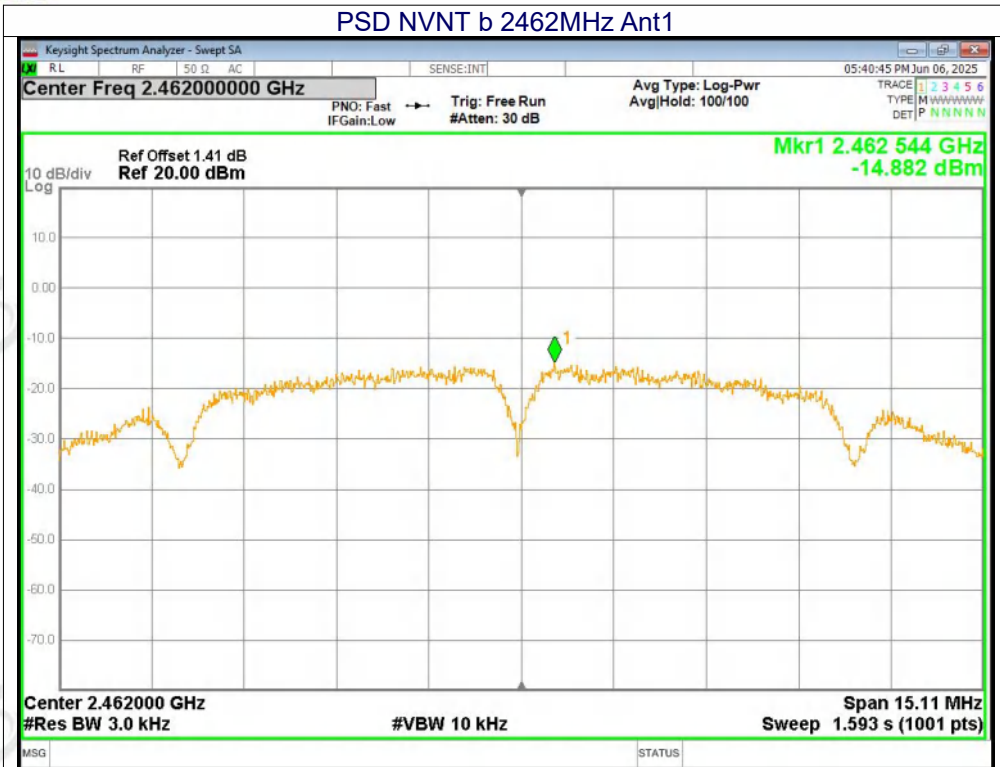
Test Graphs
PSD NVNT b 2412MHz Ant1



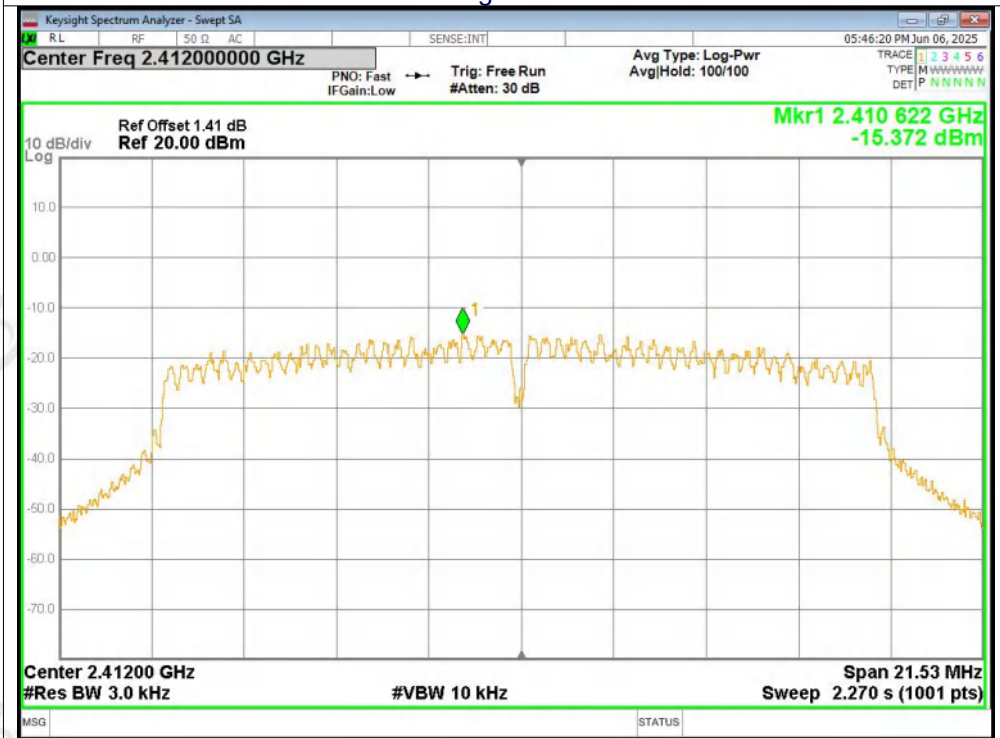
PSD NVNT b 2437MHz Ant1



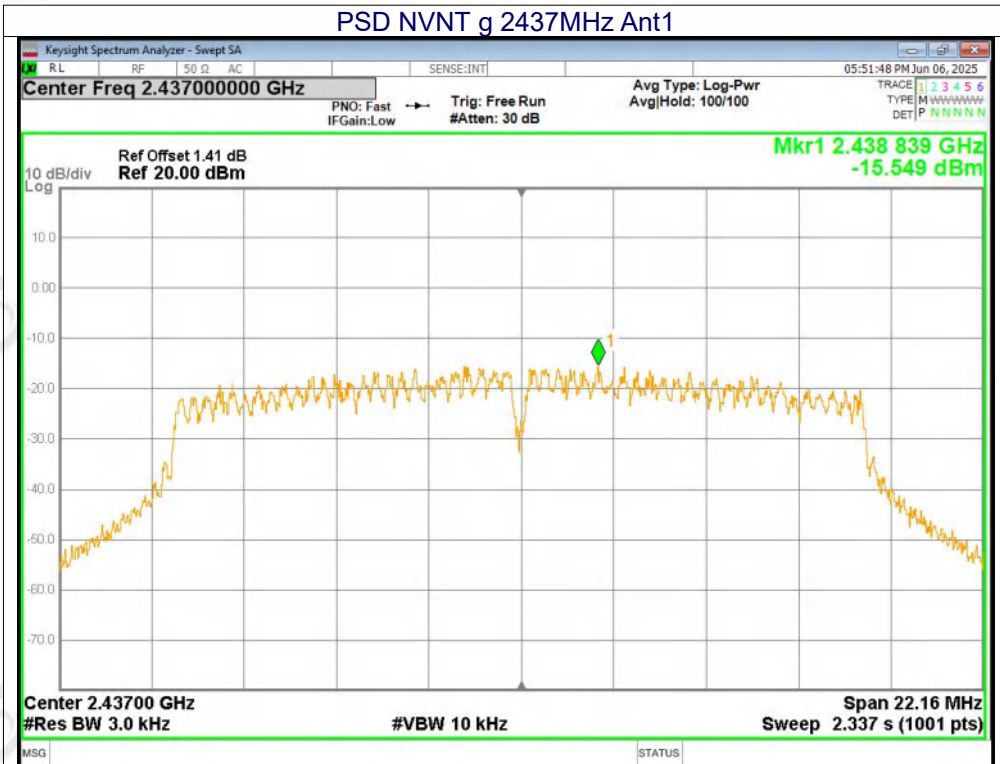
PSD NVNT b 2462MHz Ant1



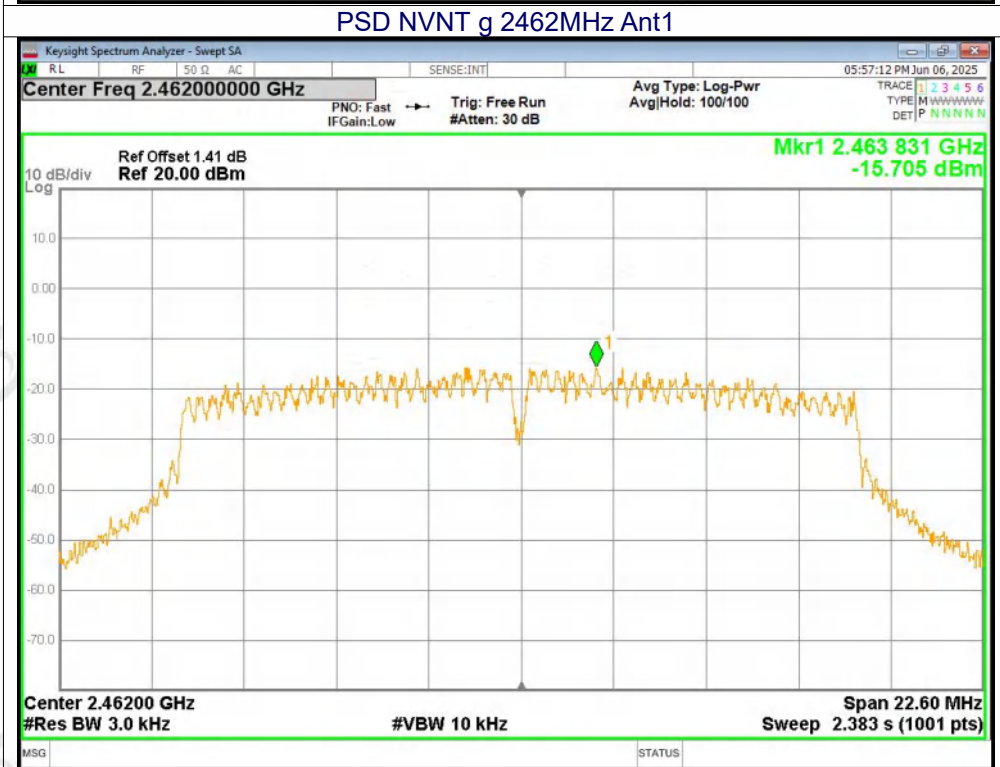
PSD NVNT g 2412MHz Ant1



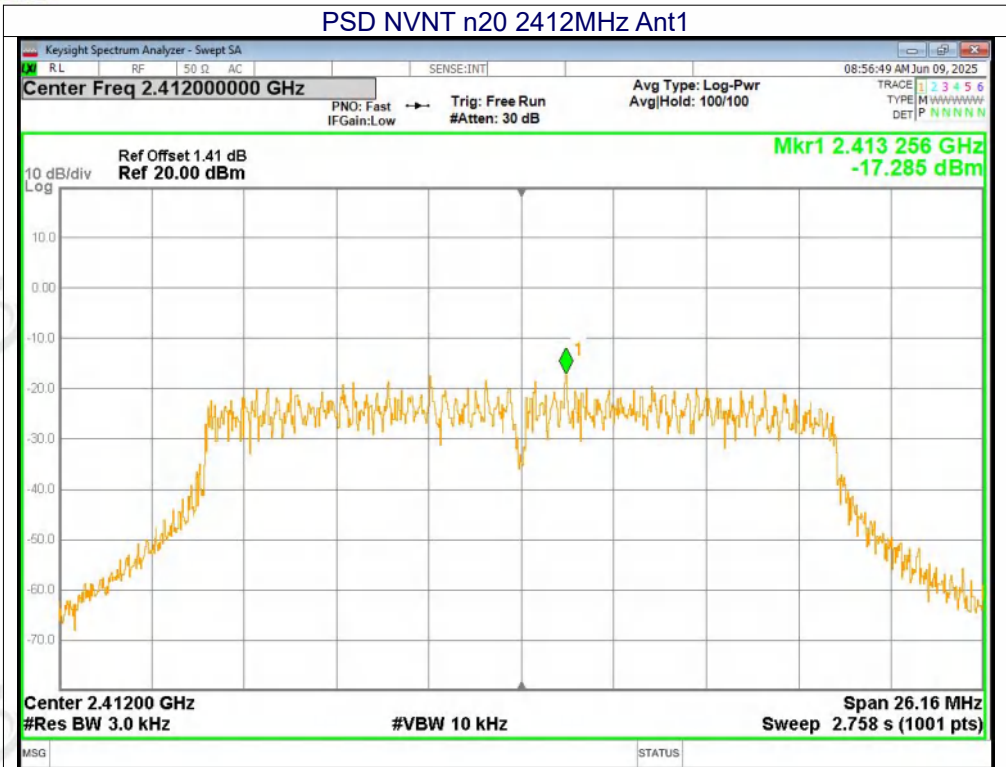
PSD NVNT g 2437MHz Ant1



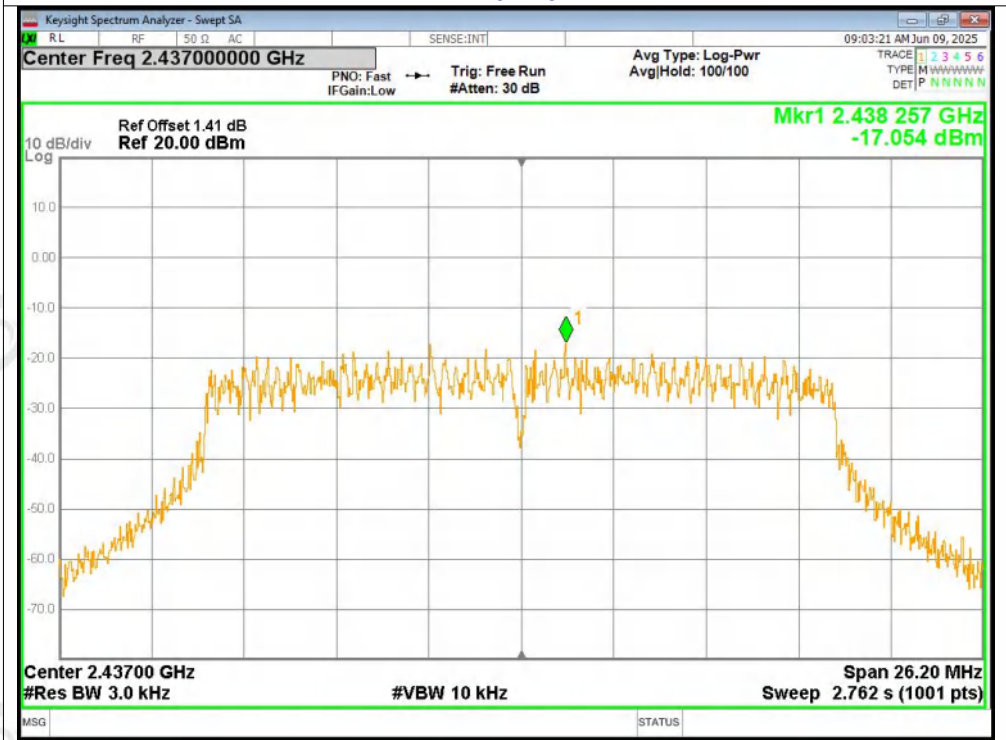
PSD NVNT g 2462MHz Ant1



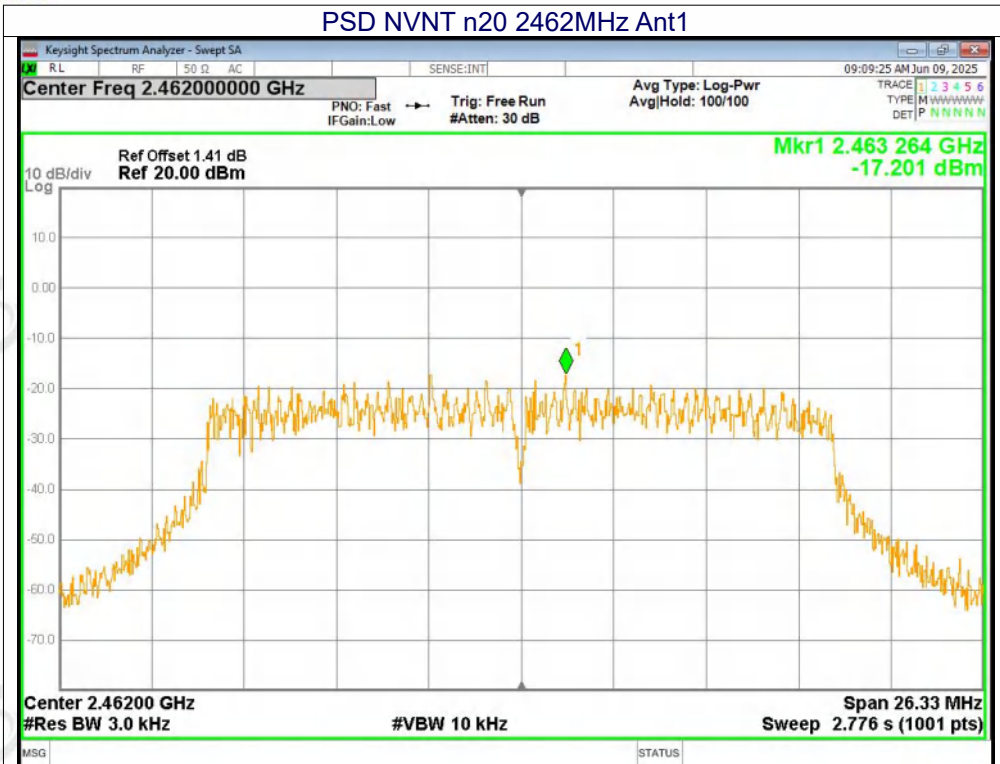
PSD NVNT n20 2412MHz Ant1



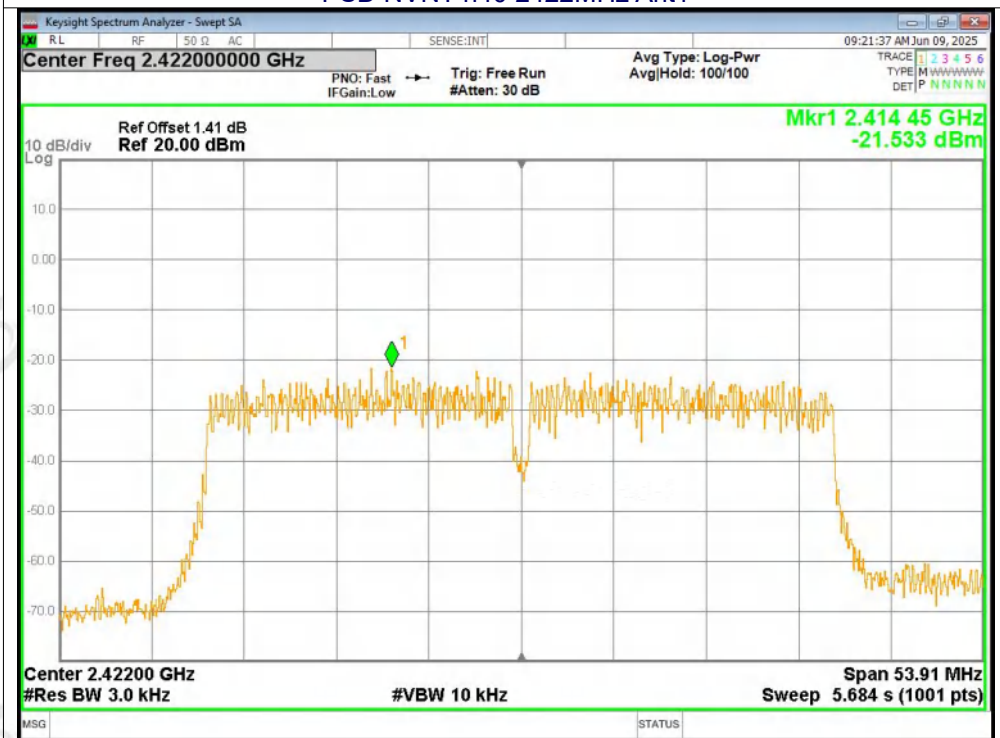
PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1

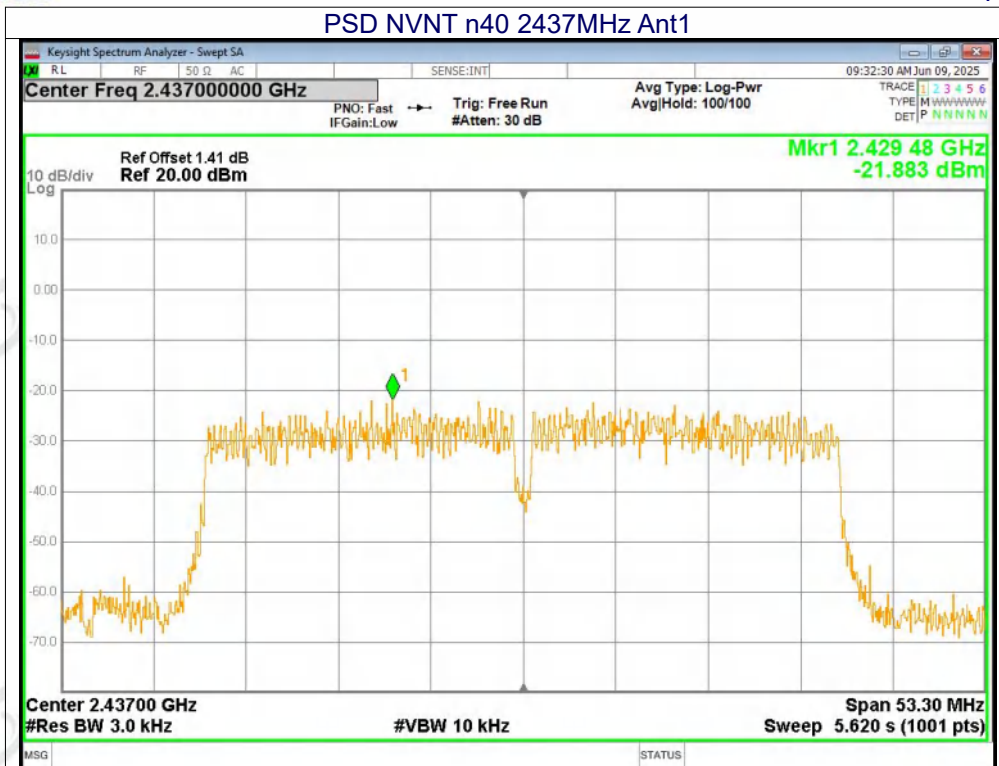


PSD NVNT n40 2422MHz Ant1

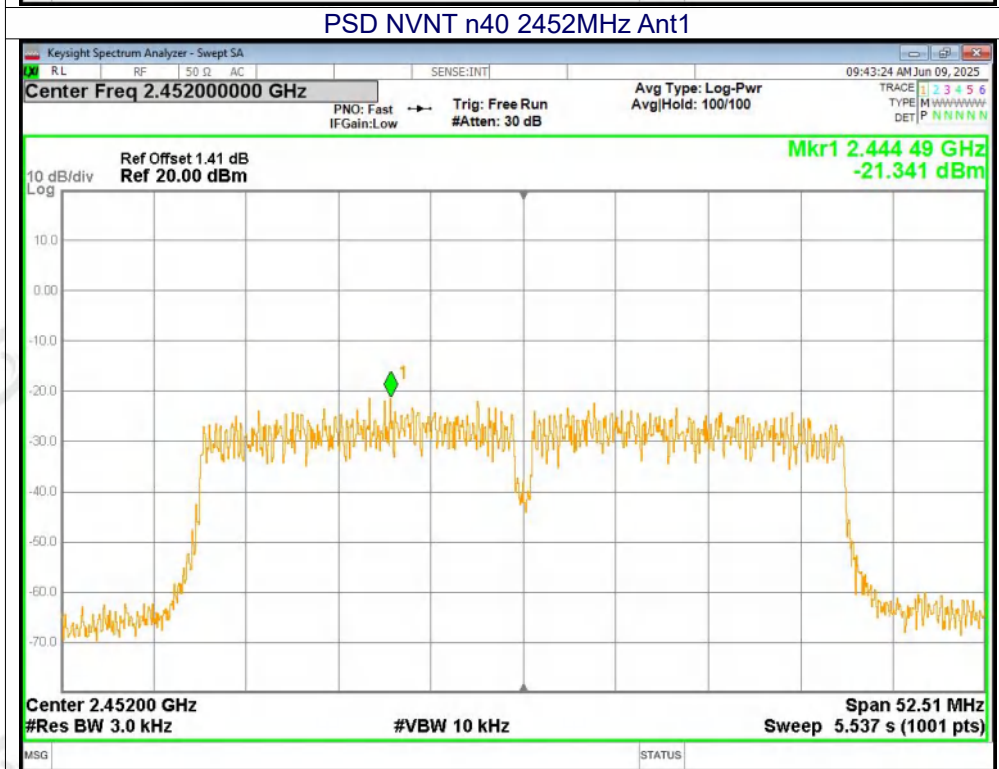




PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

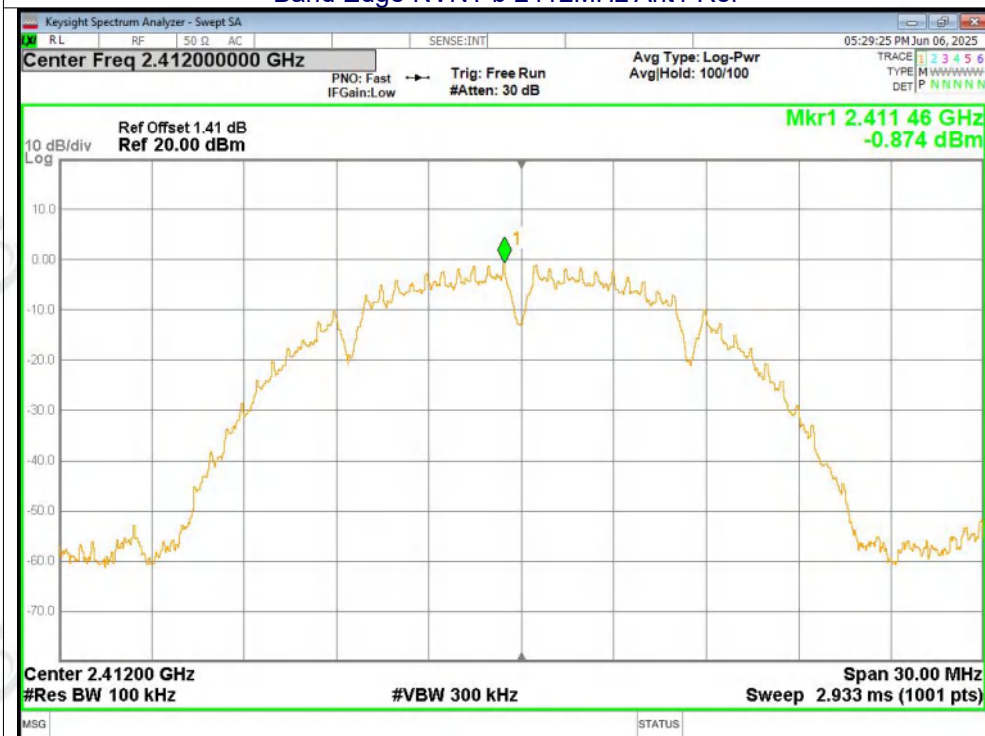




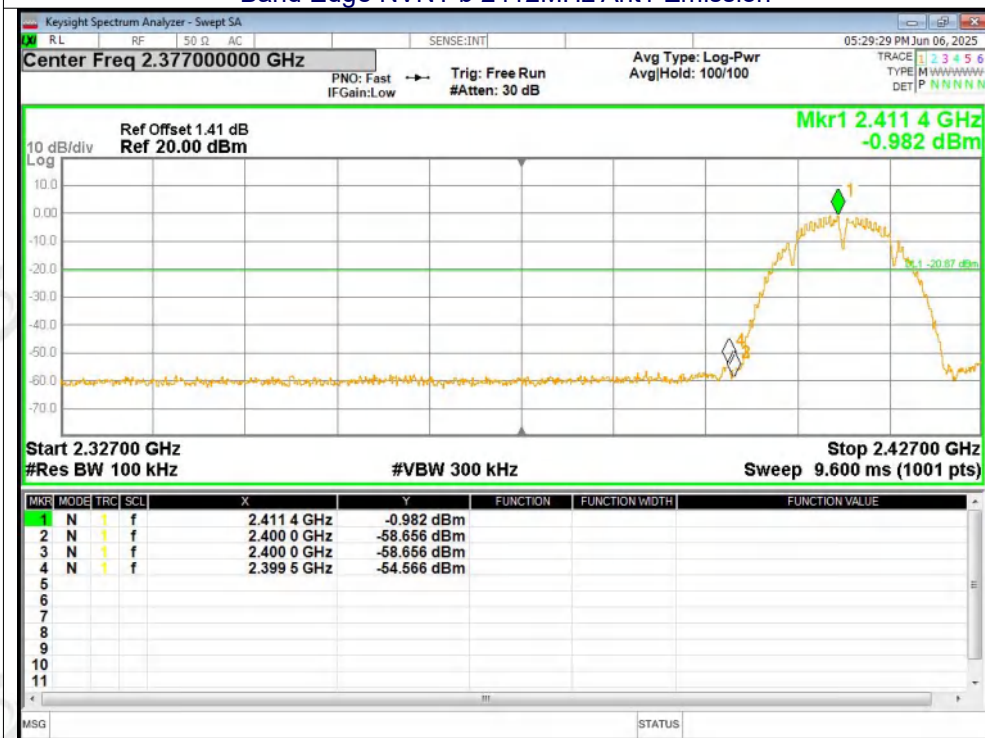
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.69	-20	Pass
NVNT	b	2462	Ant1	-56.08	-20	Pass
NVNT	g	2412	Ant1	-43.36	-20	Pass
NVNT	g	2462	Ant1	-50.32	-20	Pass
NVNT	n20	2412	Ant1	-39.77	-20	Pass
NVNT	n20	2462	Ant1	-46.91	-20	Pass
NVNT	n40	2422	Ant1	-43.29	-20	Pass
NVNT	n40	2452	Ant1	-39.91	-20	Pass

Test Graphs

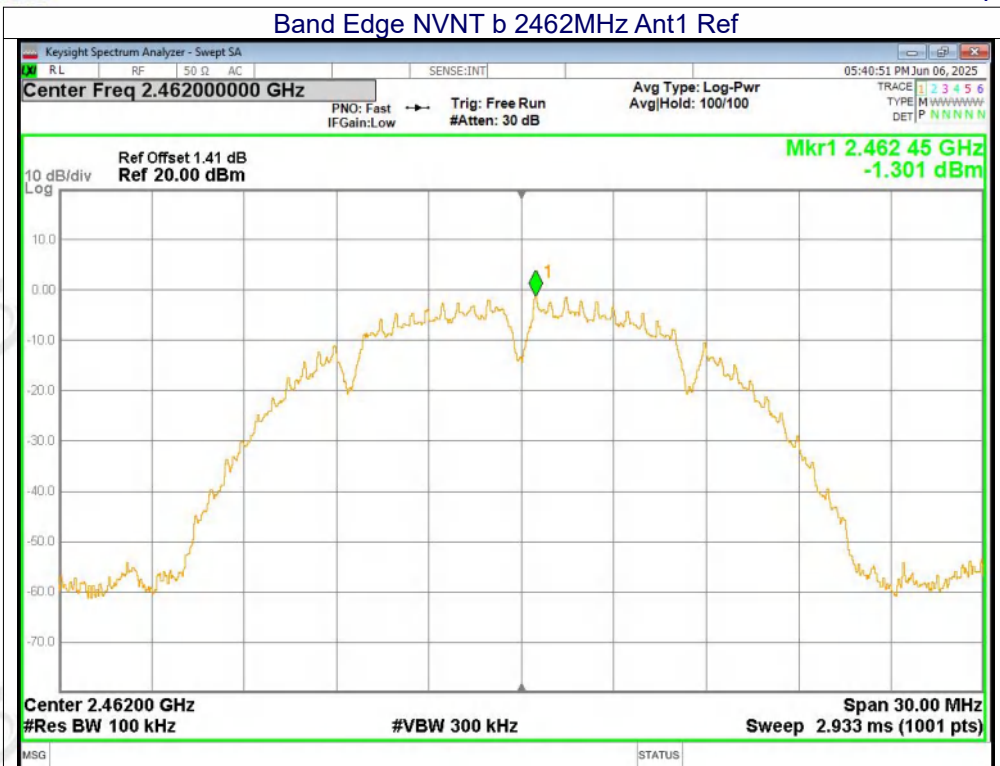
Band Edge NVNT b 2412MHz Ant1 Ref



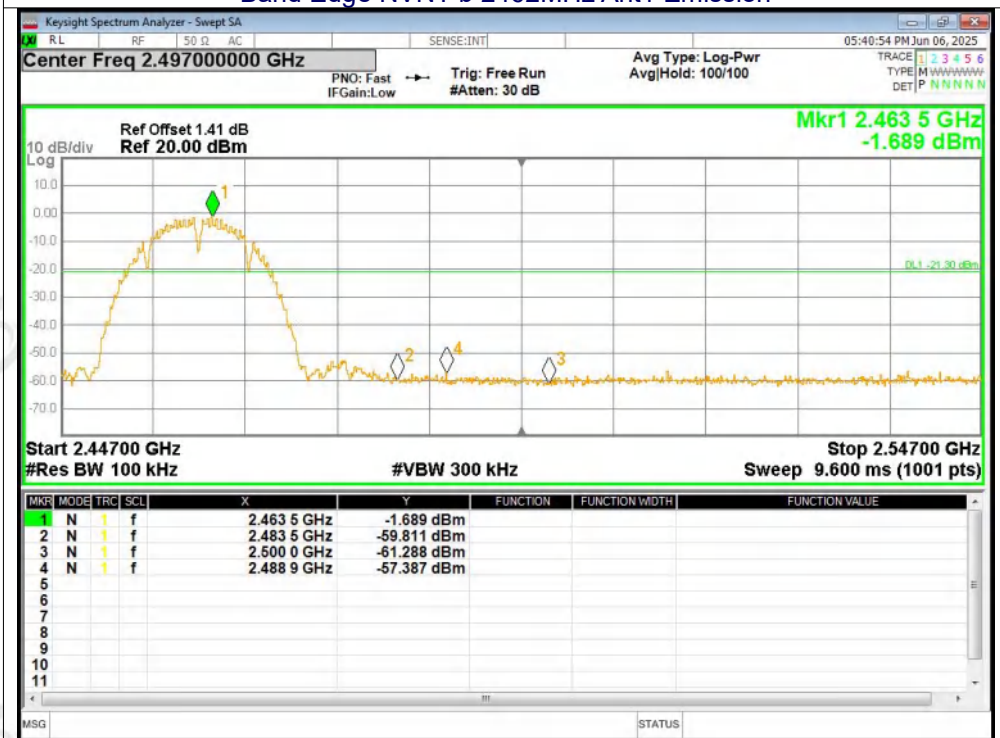
Band Edge NVNT b 2412MHz Ant1 Emission



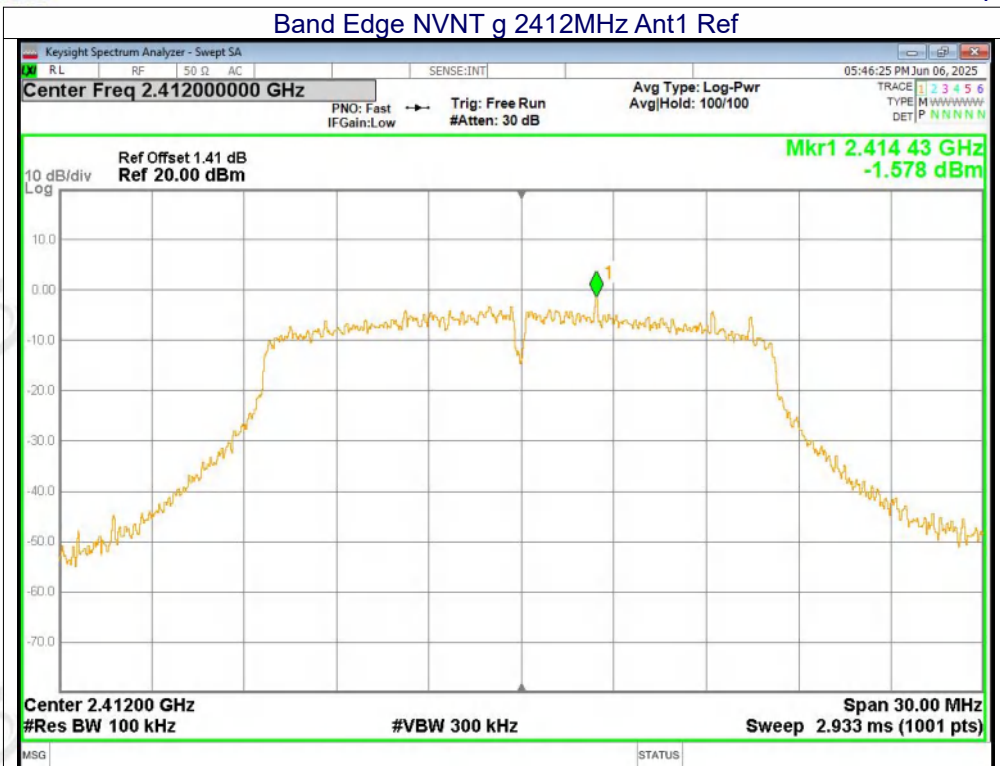
Band Edge NVNT b 2462MHz Ant1 Ref



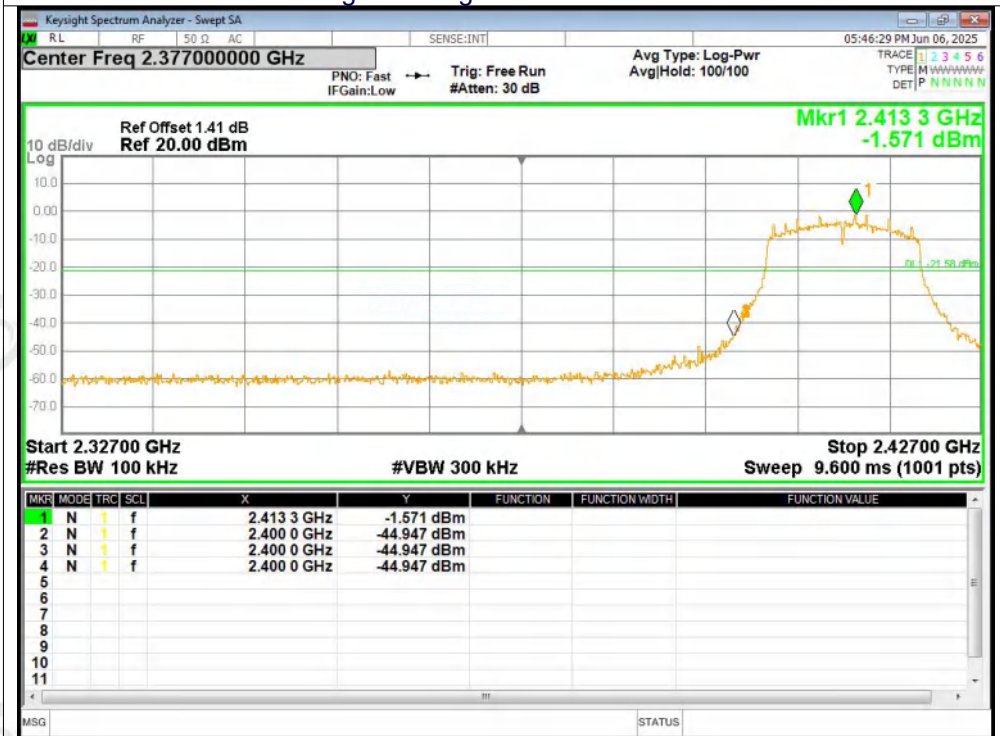
Band Edge NVNT b 2462MHz Ant1 Emission



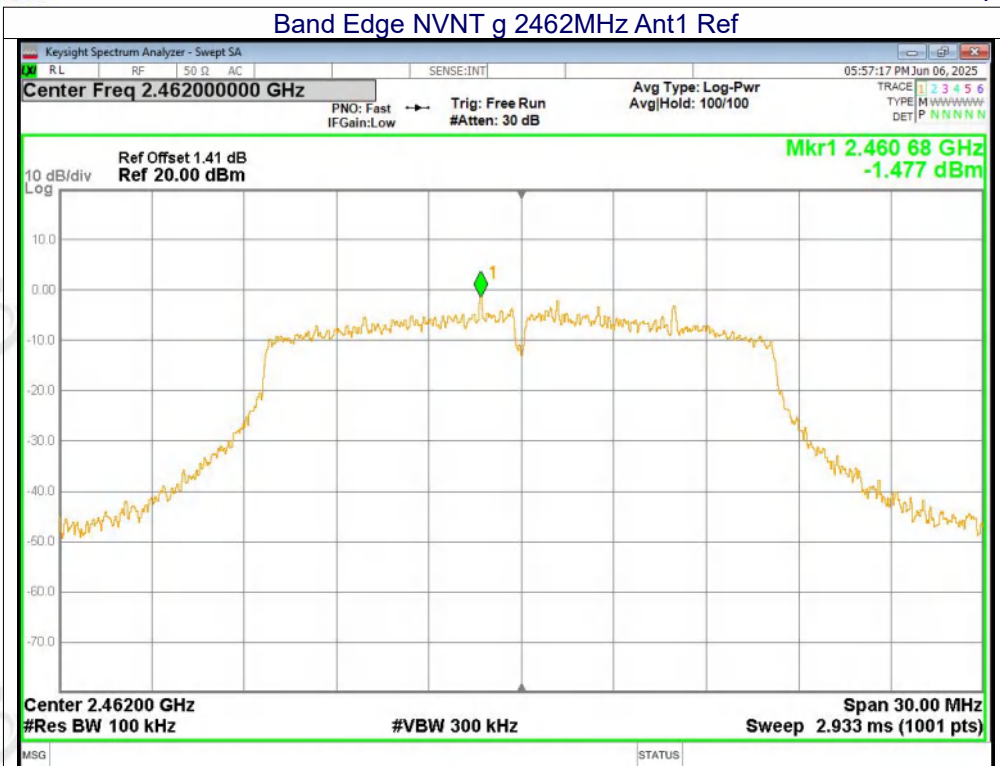
Band Edge NVNT g 2412MHz Ant1 Ref



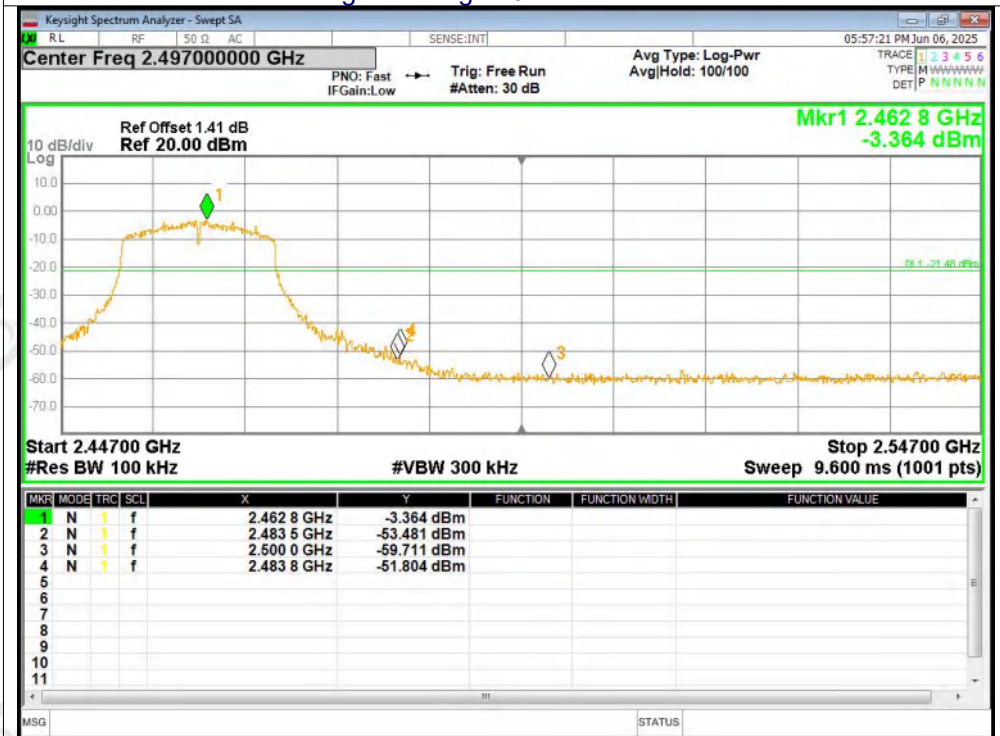
Band Edge NVNT g 2412MHz Ant1 Emission

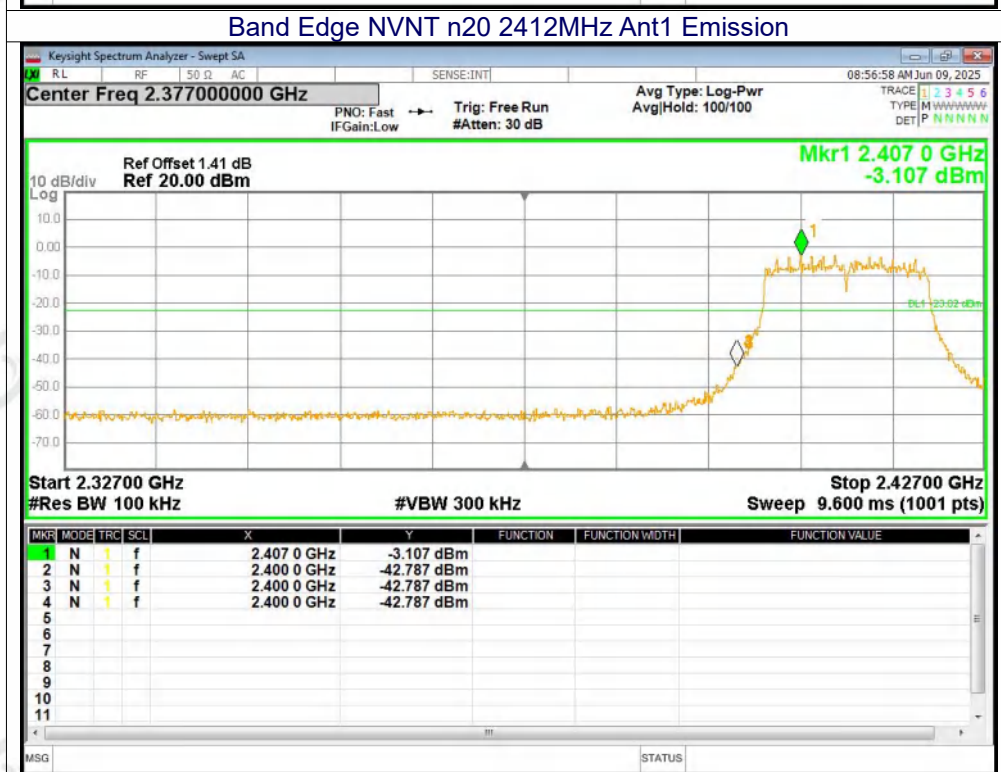
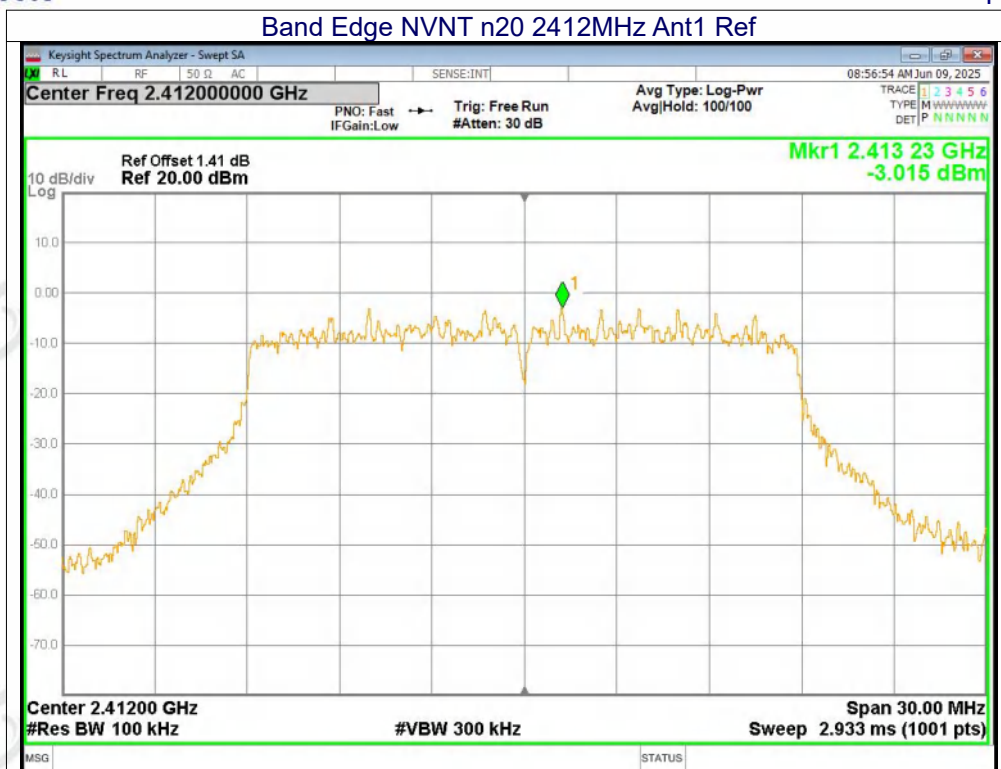


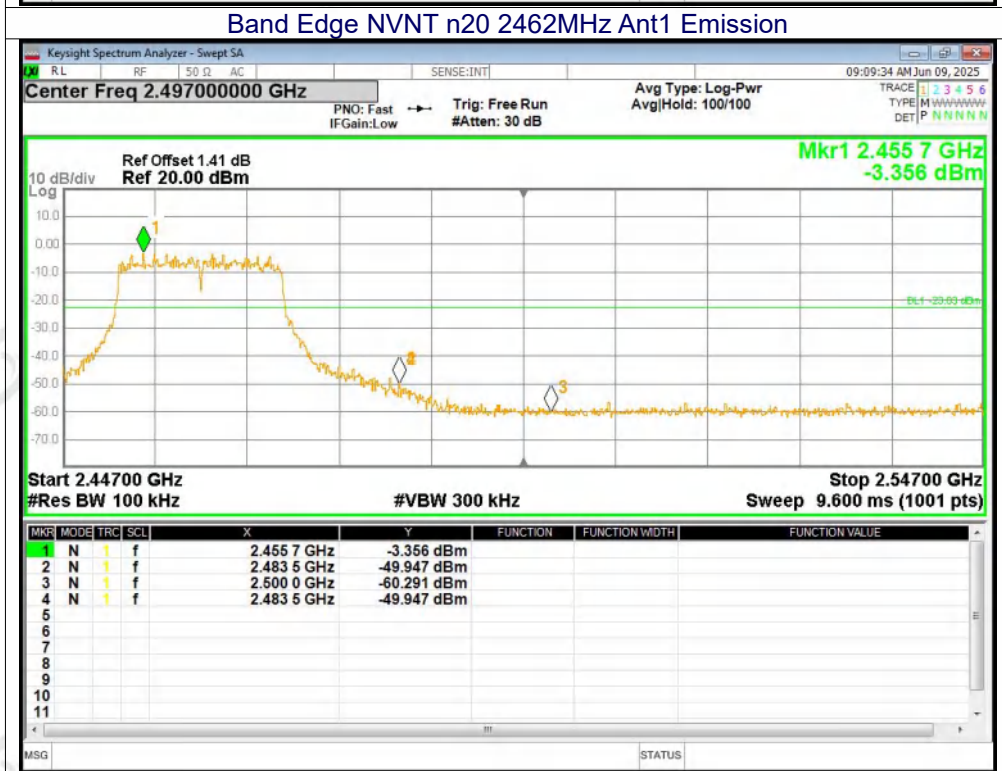
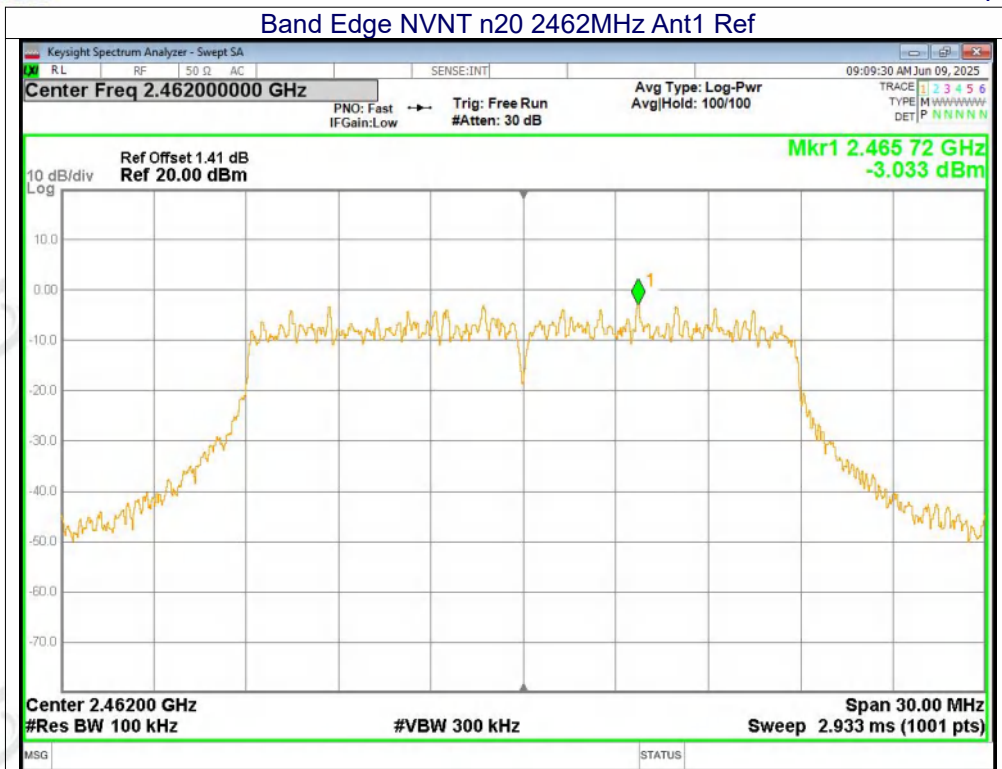
Band Edge NVNT g 2462MHz Ant1 Ref



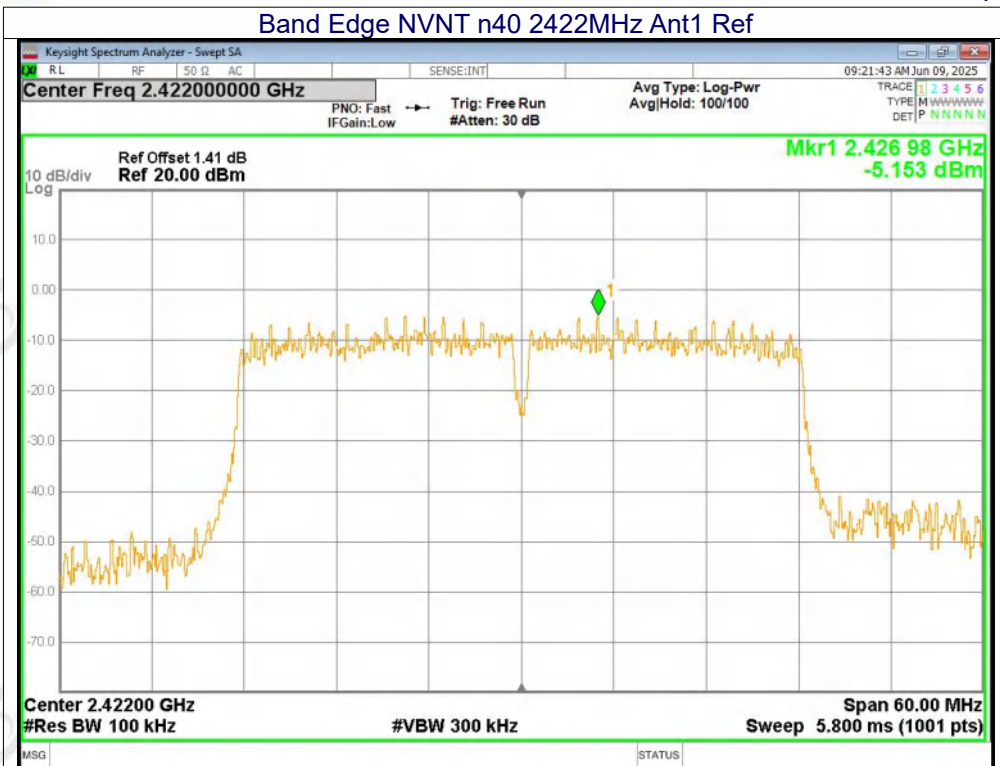
Band Edge NVNT g 2462MHz Ant1 Emission



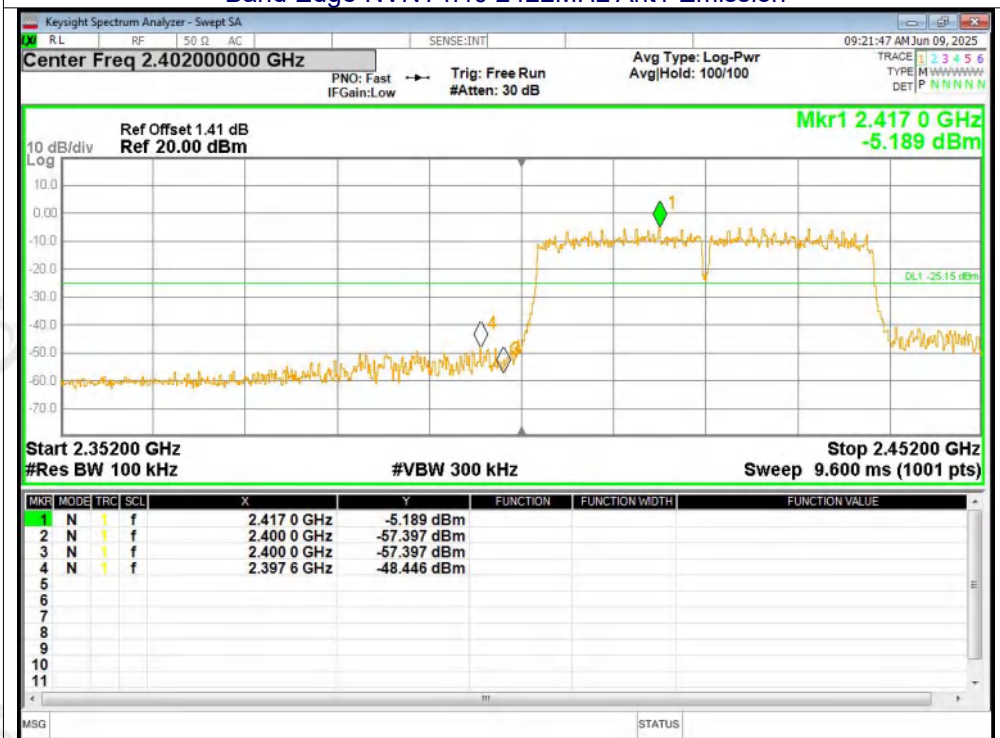




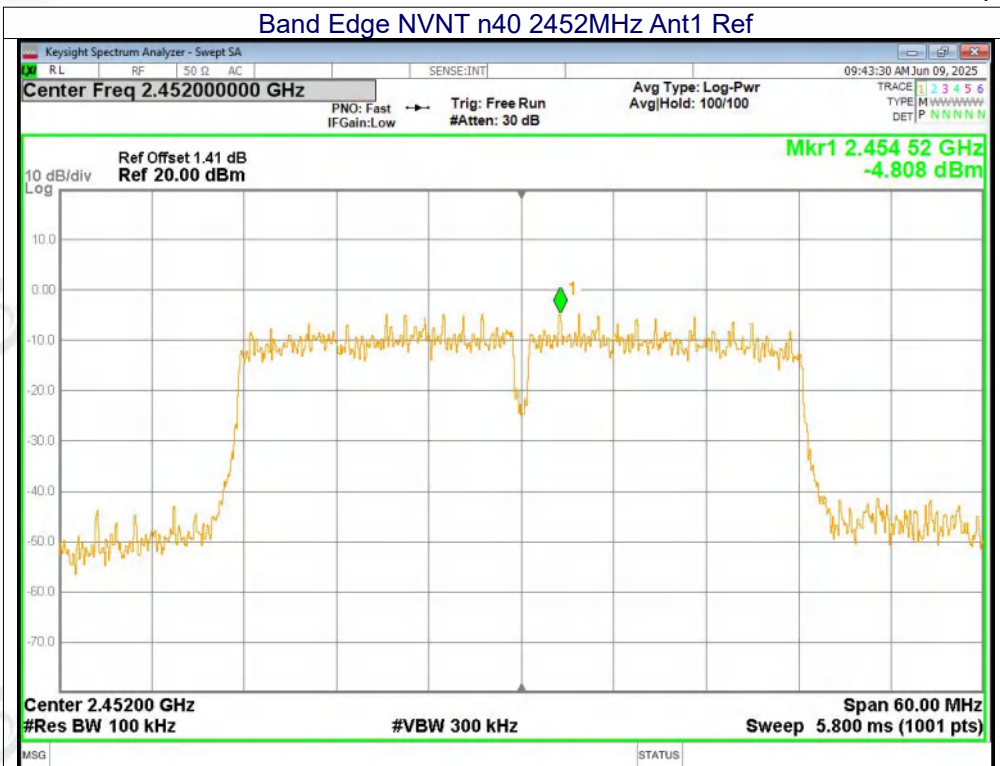
Band Edge NVNT n40 2422MHz Ant1 Ref



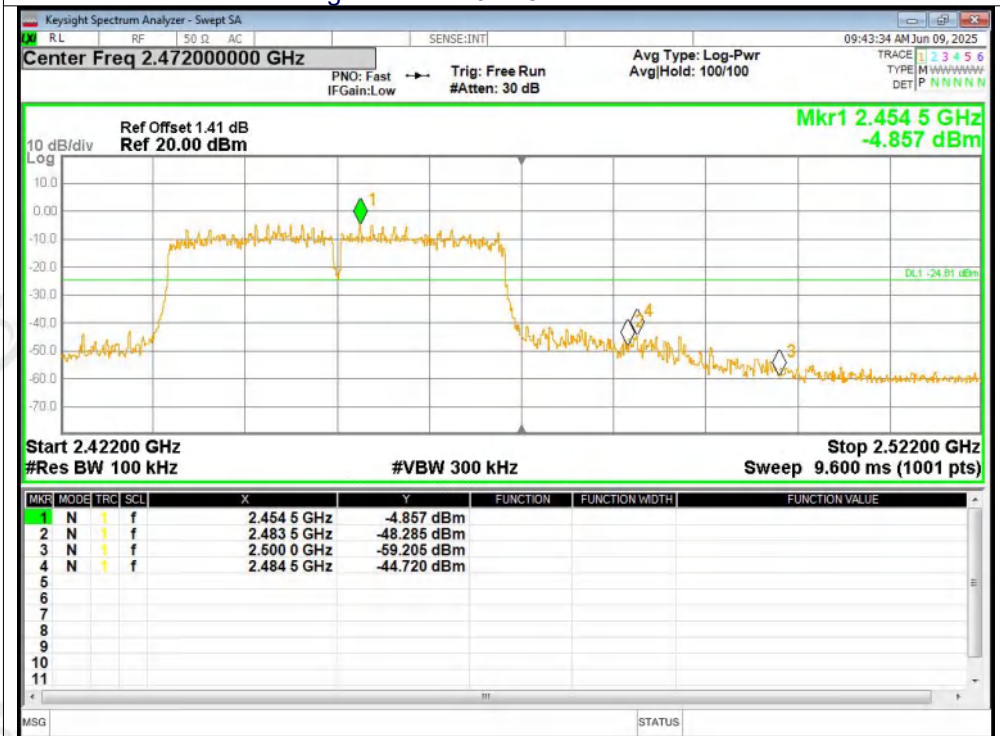
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



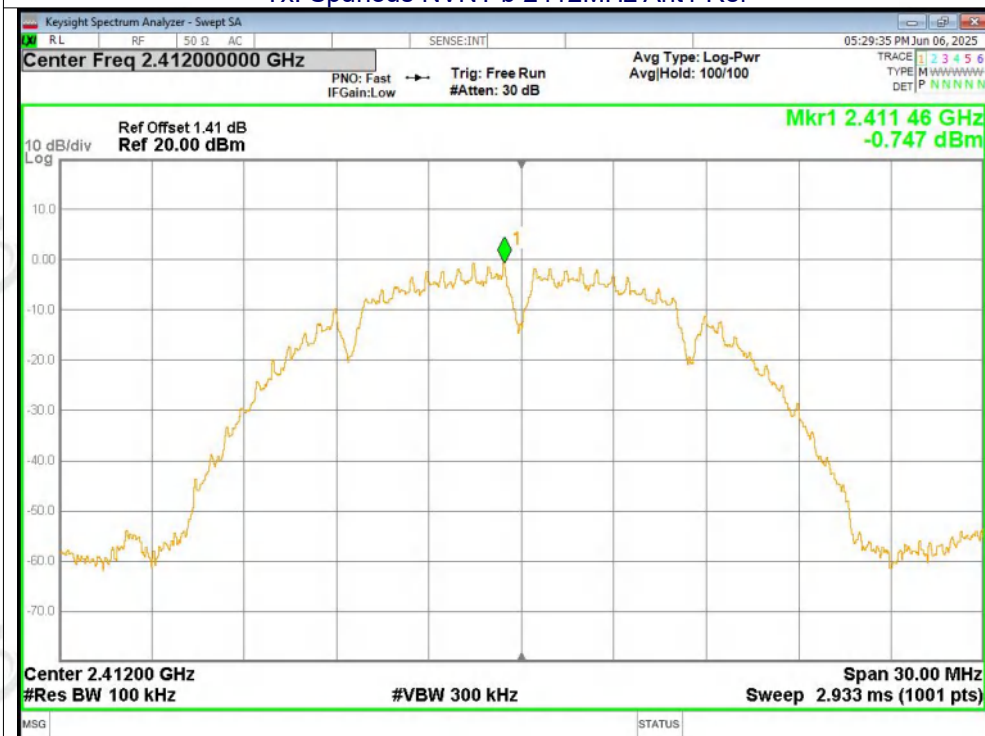


11.7 CONDUCTED RF SPURIOUS EMISSION

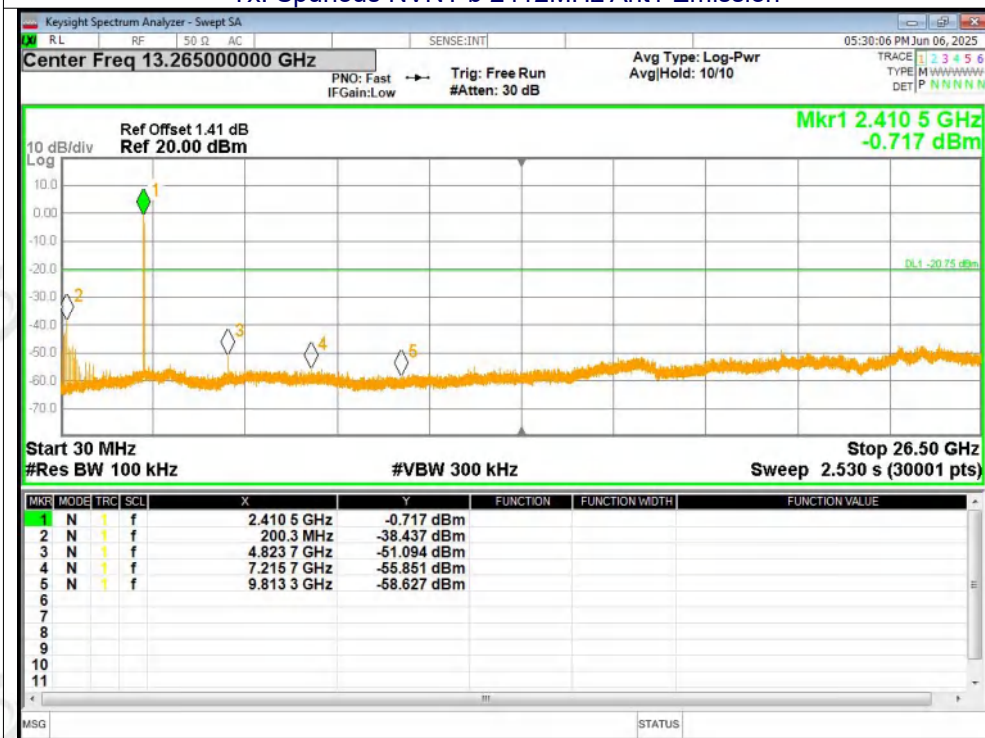
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.68	-20	Pass
NVNT	b	2437	Ant1	-37.21	-20	Pass
NVNT	b	2462	Ant1	-37.22	-20	Pass
NVNT	g	2412	Ant1	-36.82	-20	Pass
NVNT	g	2437	Ant1	-35.9	-20	Pass
NVNT	g	2462	Ant1	-35.56	-20	Pass
NVNT	n20	2412	Ant1	-35.58	-20	Pass
NVNT	n20	2437	Ant1	-35.13	-20	Pass
NVNT	n20	2462	Ant1	-35.77	-20	Pass
NVNT	n40	2422	Ant1	-33.28	-20	Pass
NVNT	n40	2437	Ant1	-33.02	-20	Pass
NVNT	n40	2452	Ant1	-32.55	-20	Pass

Test Graphs

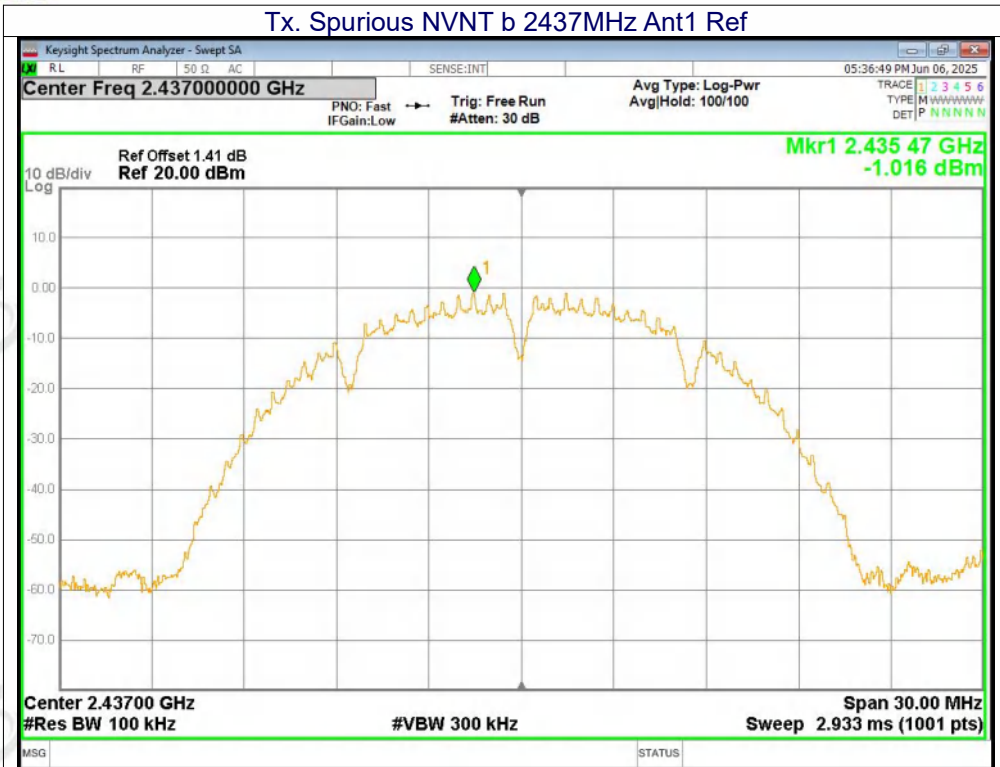
Tx. Spurious NVNT b 2412MHz Ant1 Ref



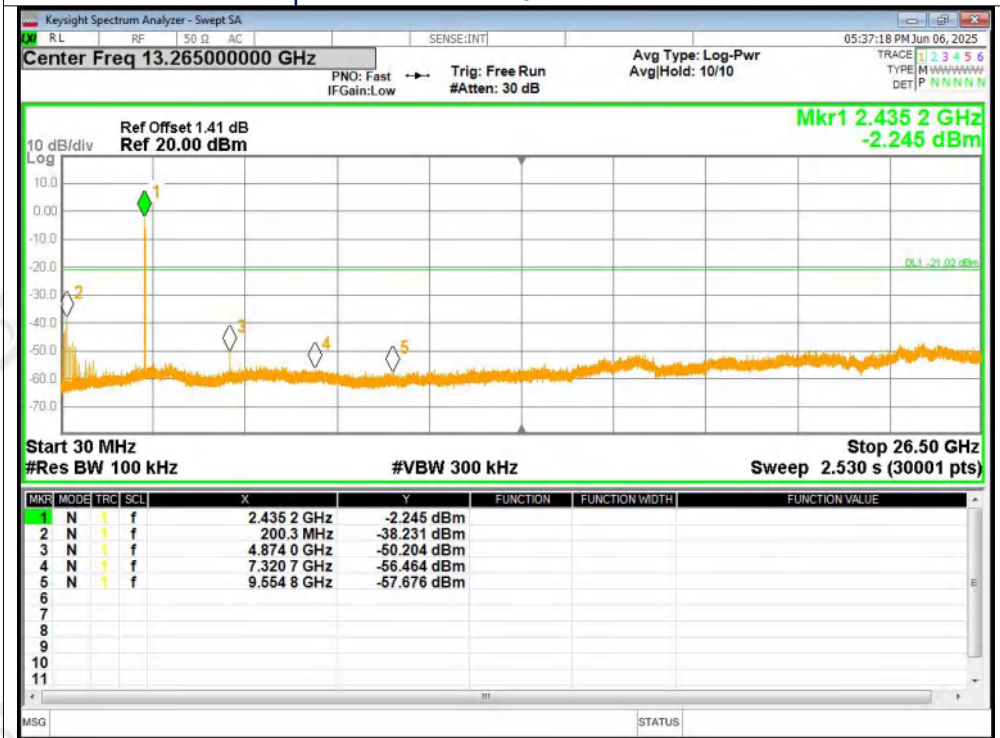
Tx. Spurious NVNT b 2412MHz Ant1 Emission



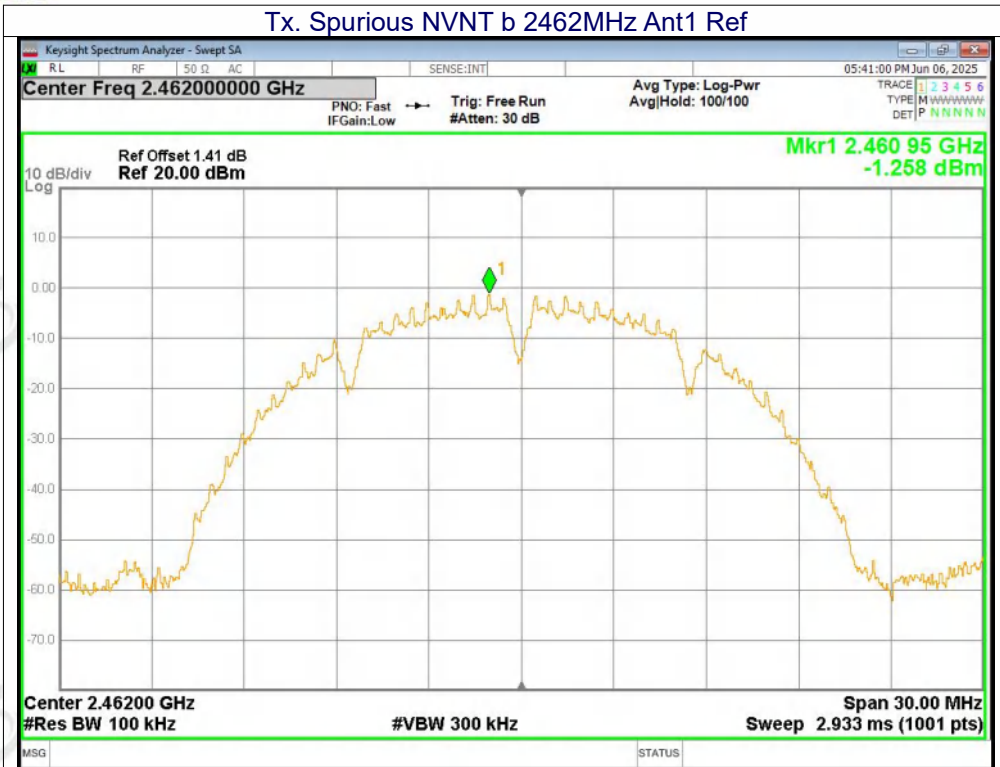
Tx. Spurious NVNT b 2437MHz Ant1 Ref



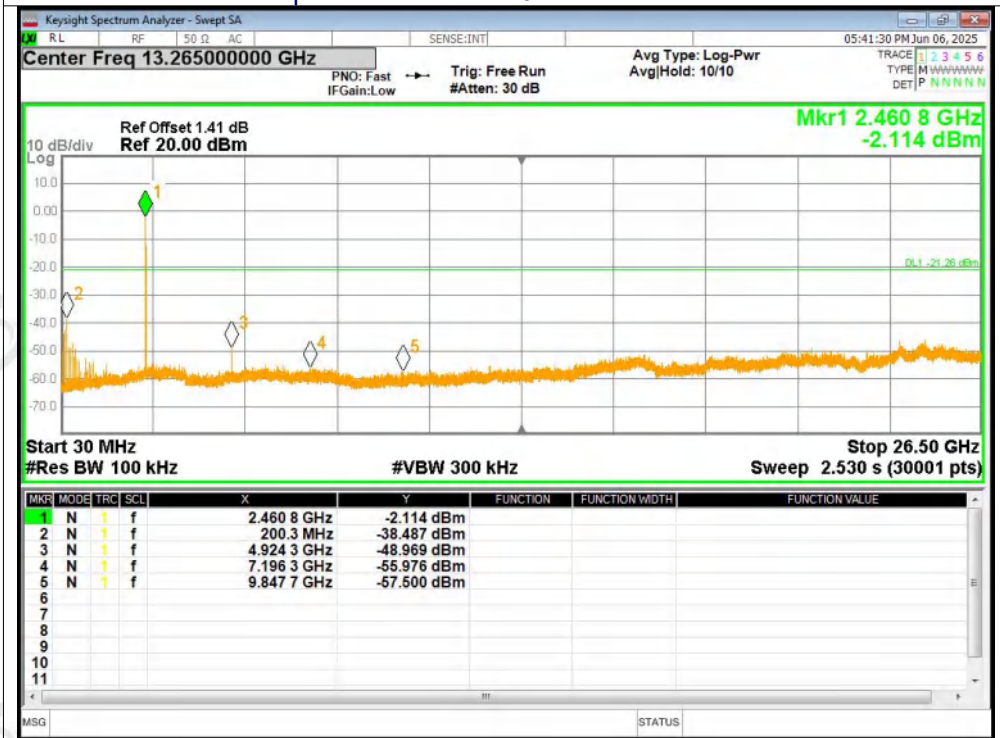
Tx. Spurious NVNT b 2437MHz Ant1 Emission



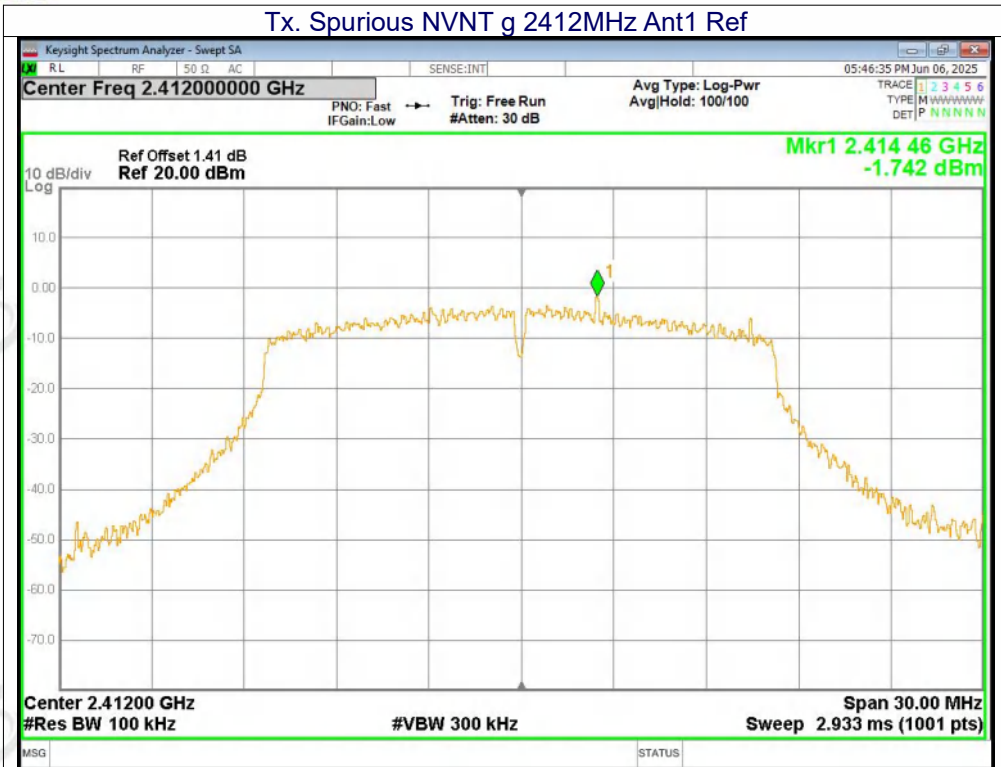
Tx. Spurious NVNT b 2462MHz Ant1 Ref



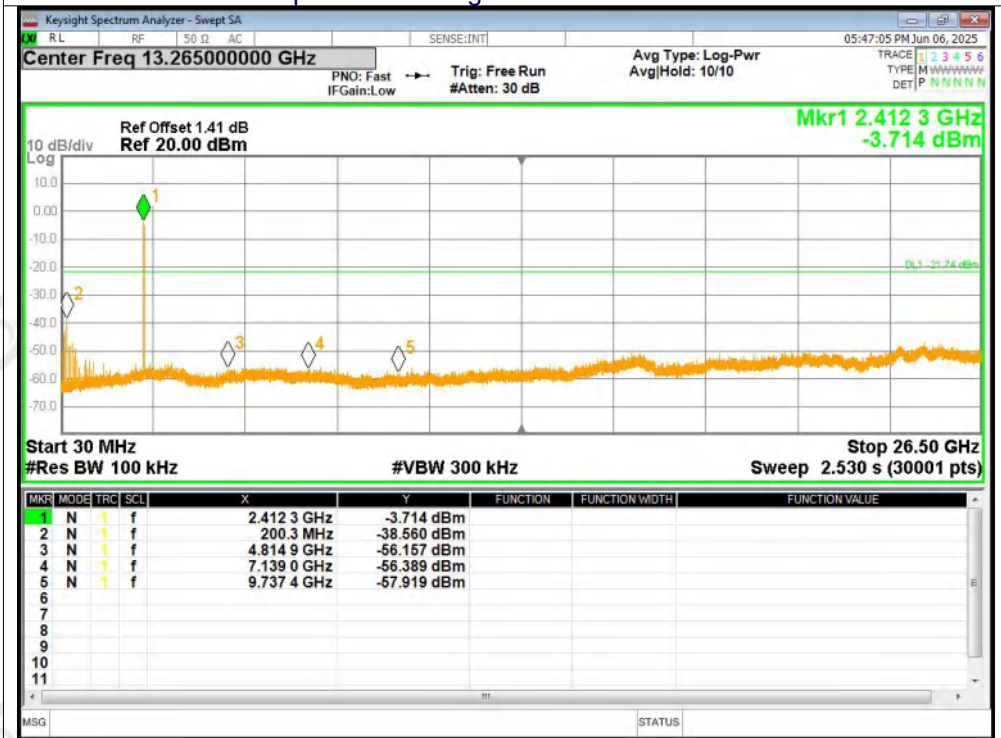
Tx. Spurious NVNT b 2462MHz Ant1 Emission



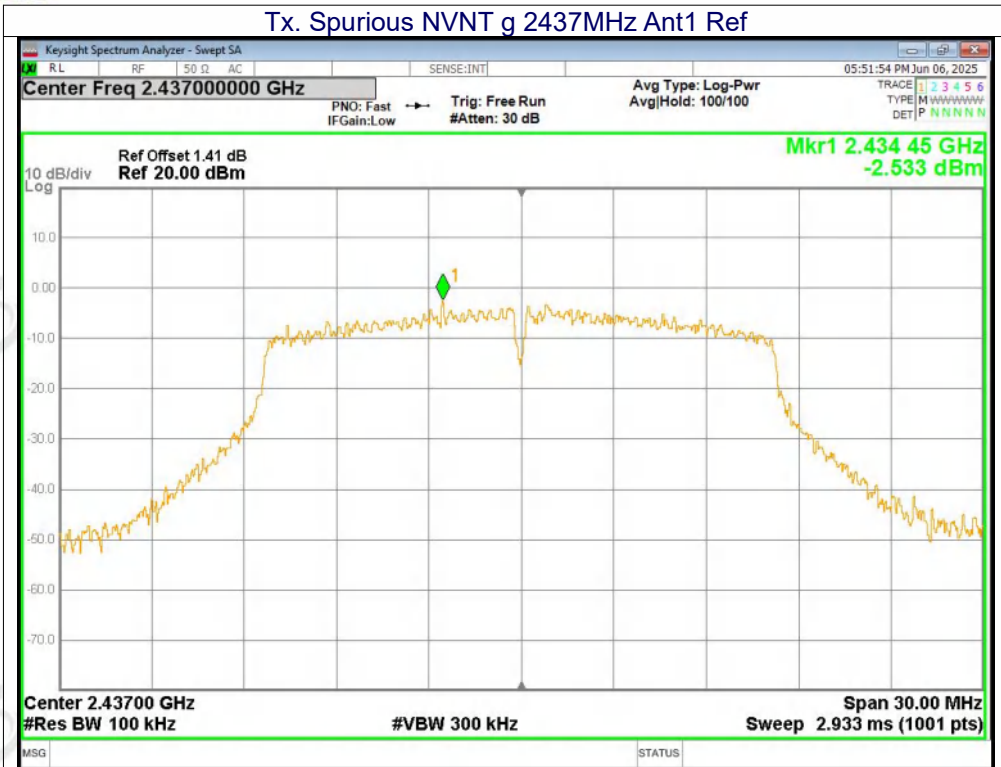
Tx. Spurious NVNT g 2412MHz Ant1 Ref



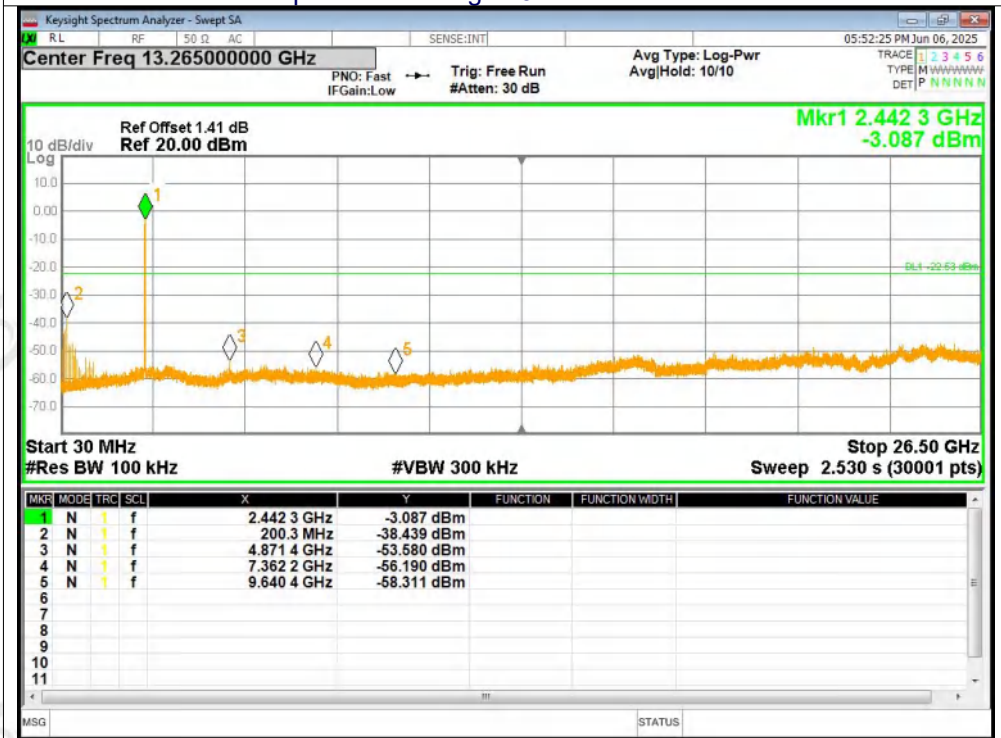
Tx. Spurious NVNT g 2412MHz Ant1 Emission



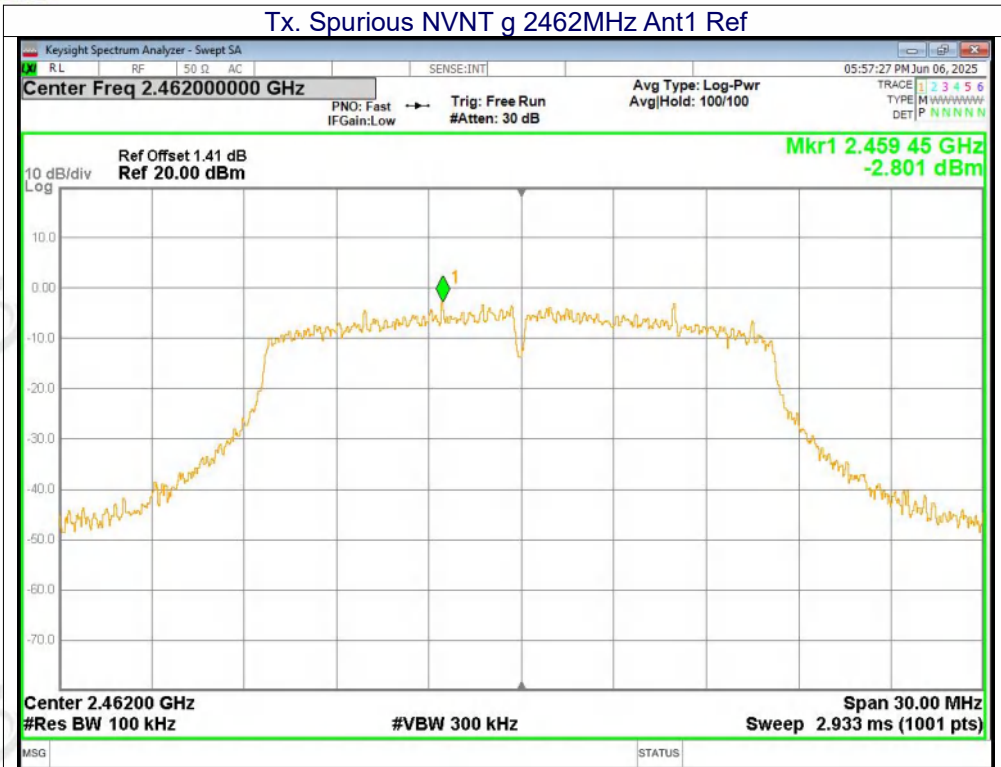
Tx. Spurious NVNT g 2437MHz Ant1 Ref



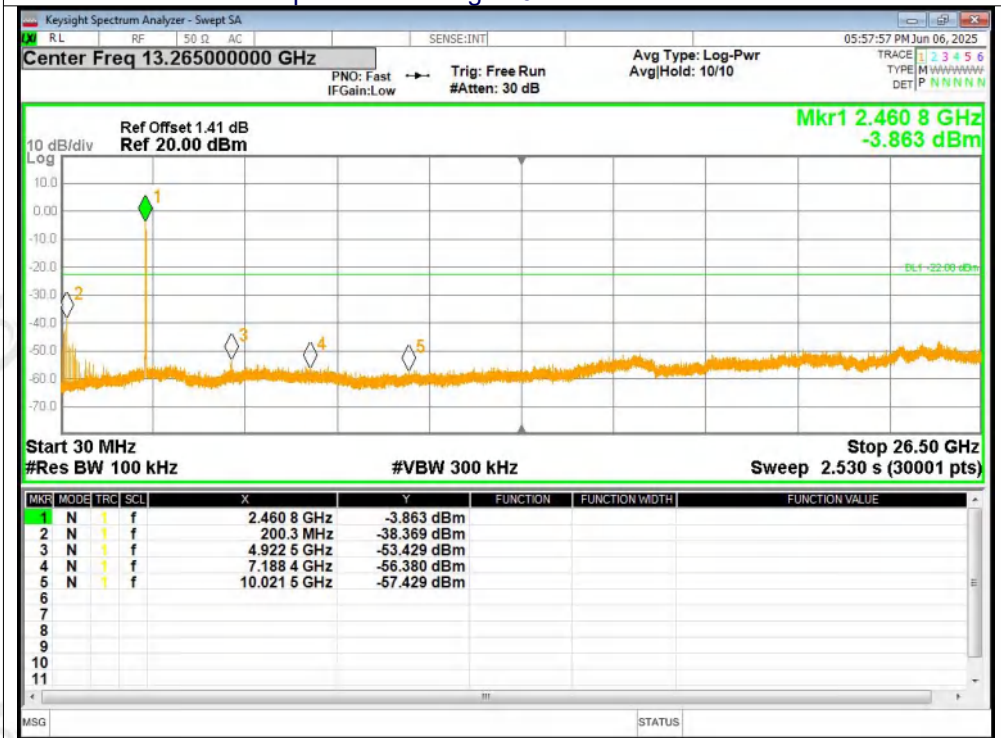
Tx. Spurious NVNT g 2437MHz Ant1 Emission



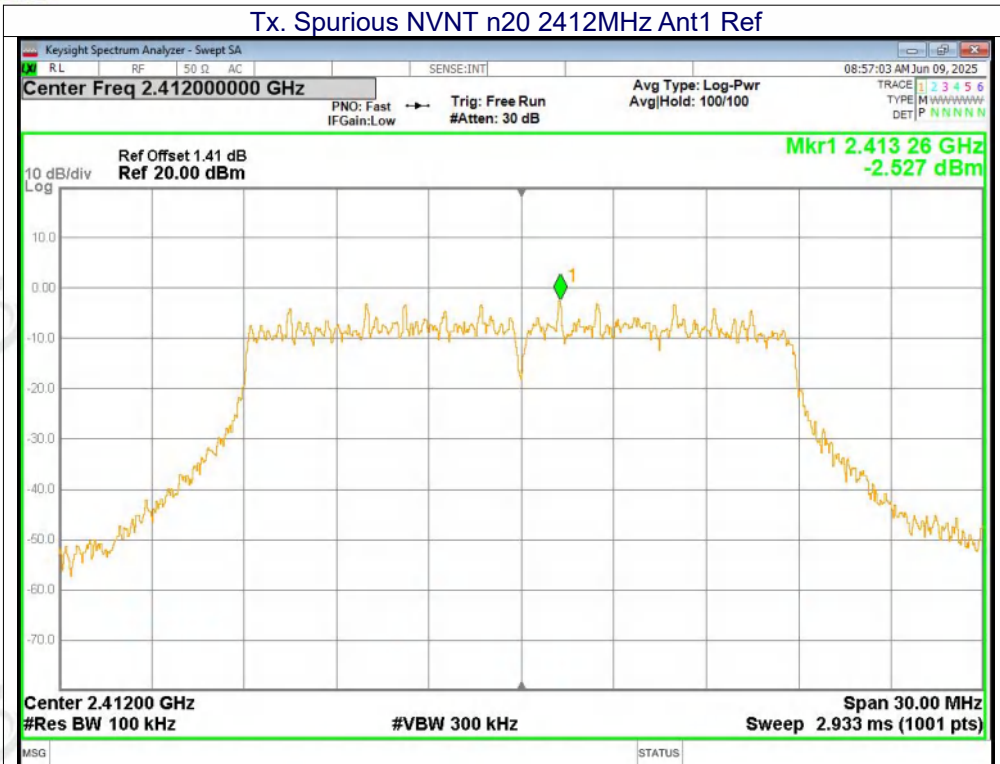
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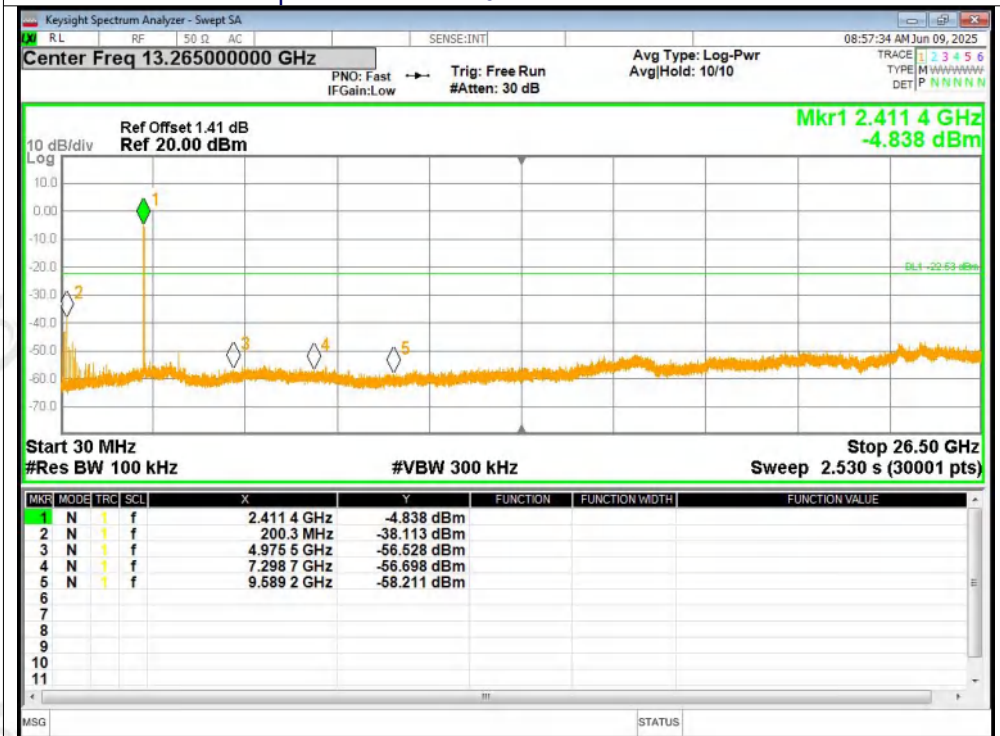
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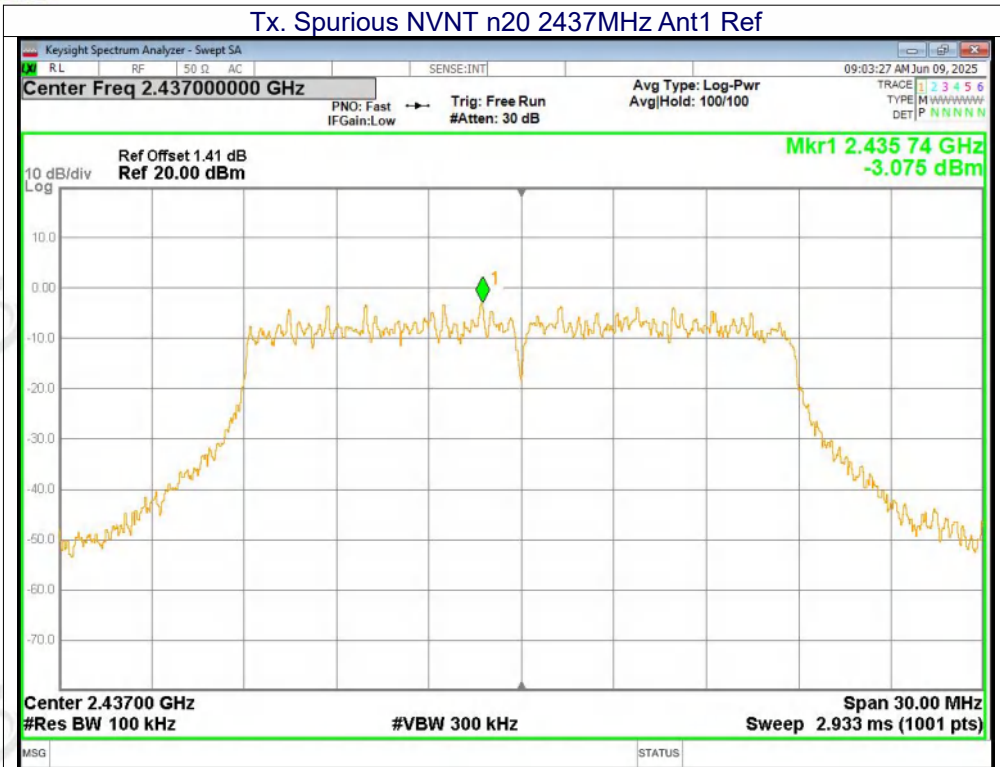
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



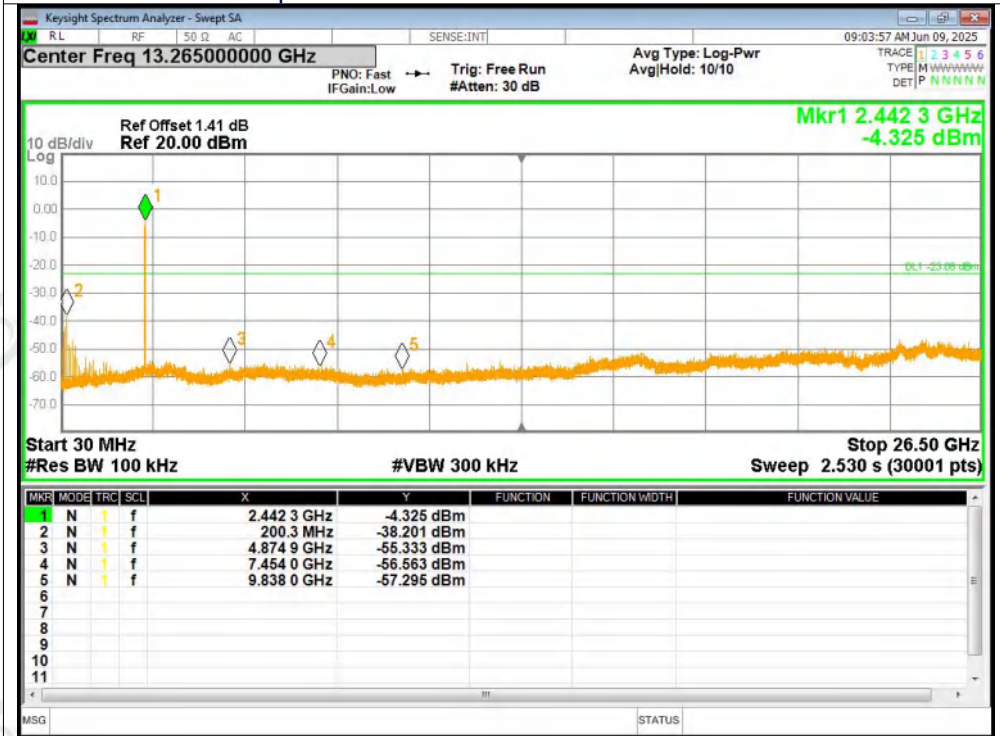
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



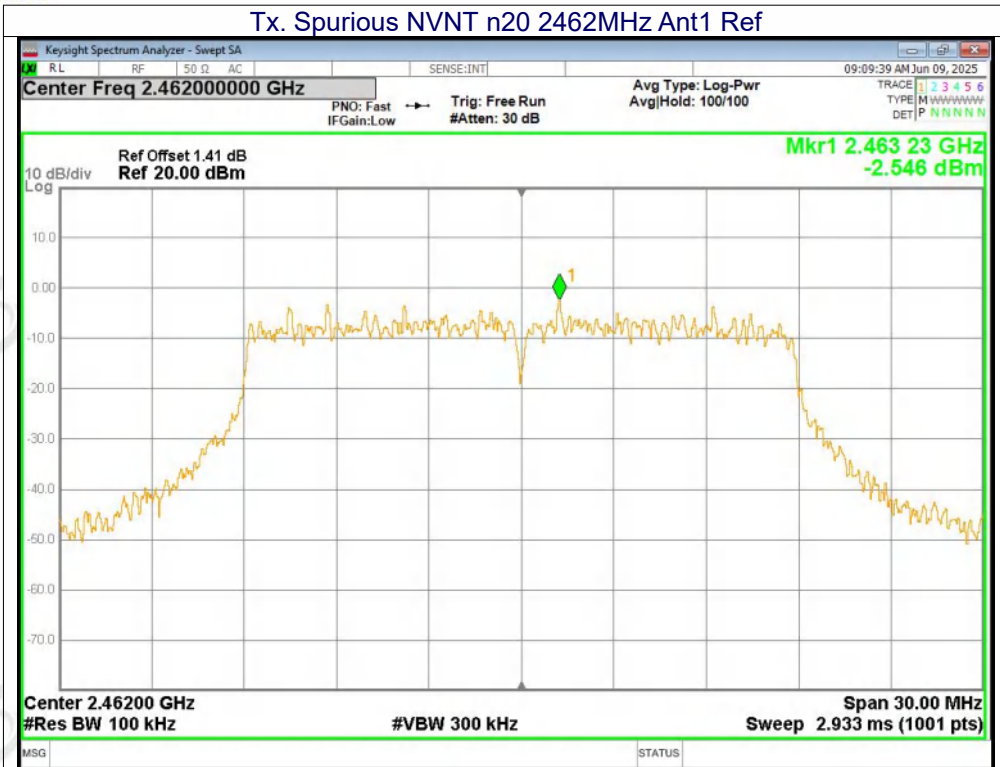
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



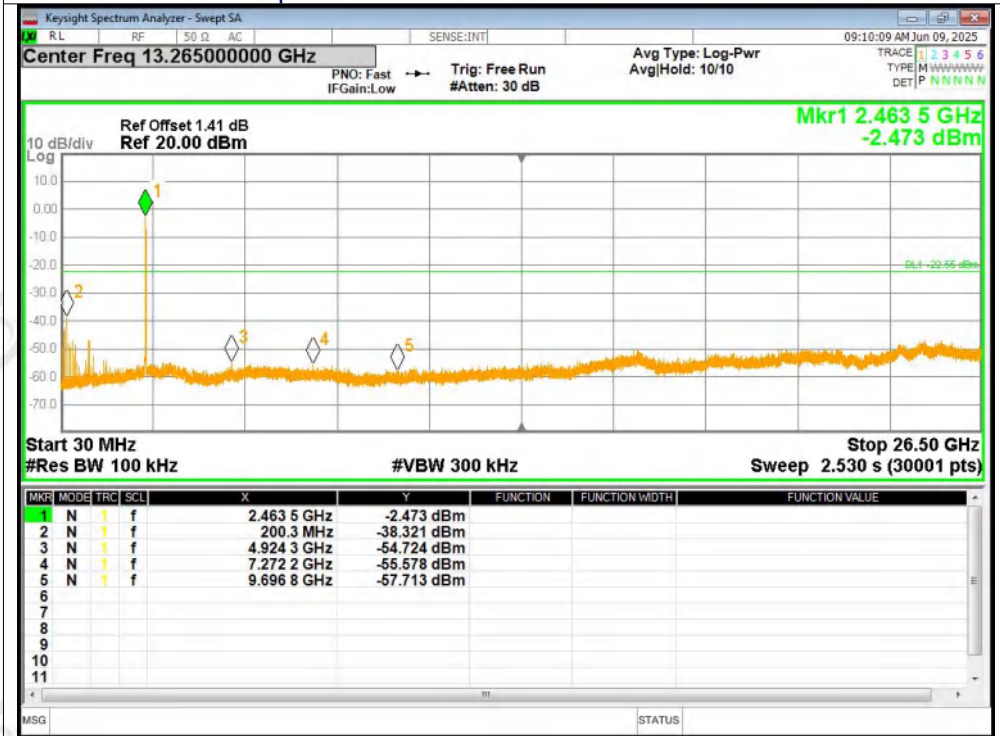
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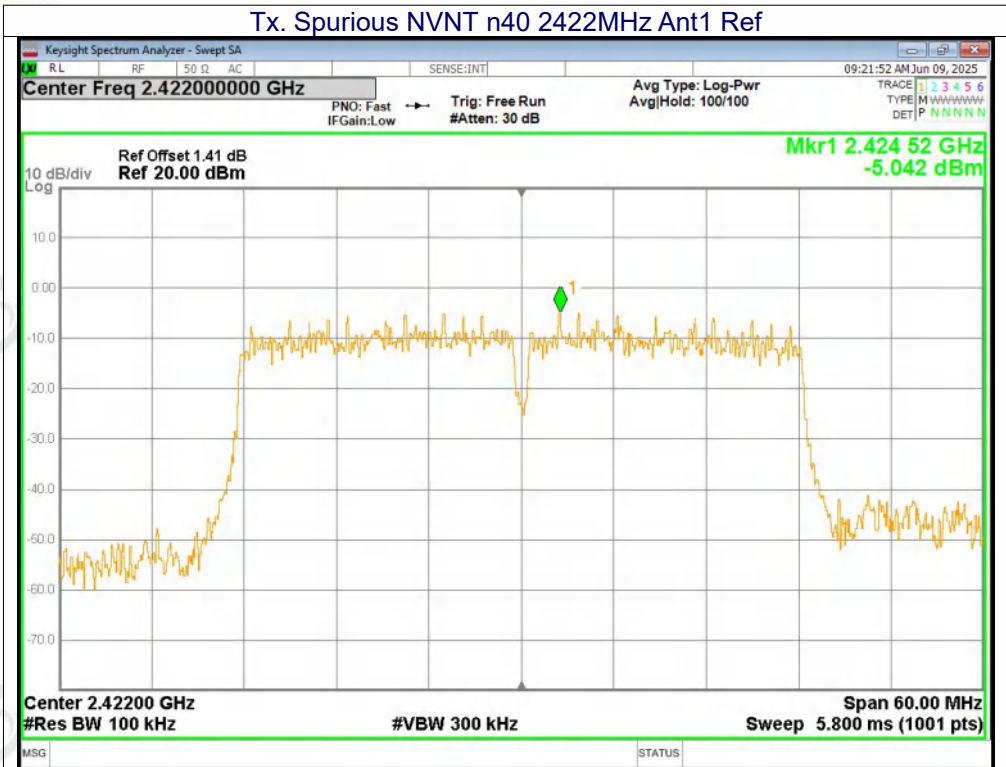
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



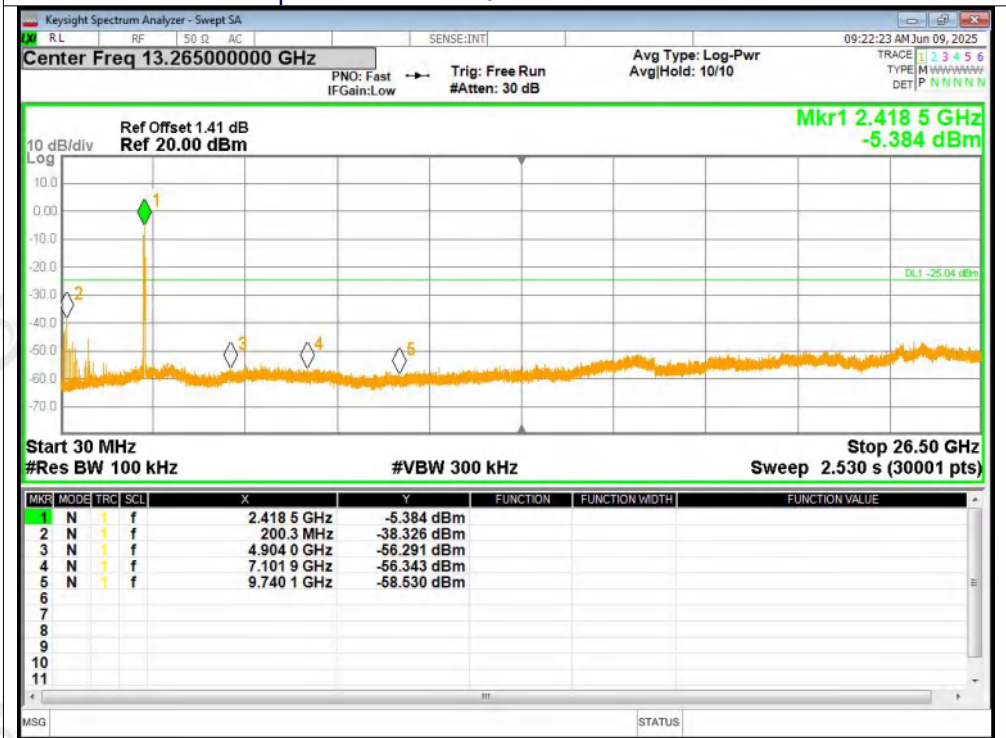
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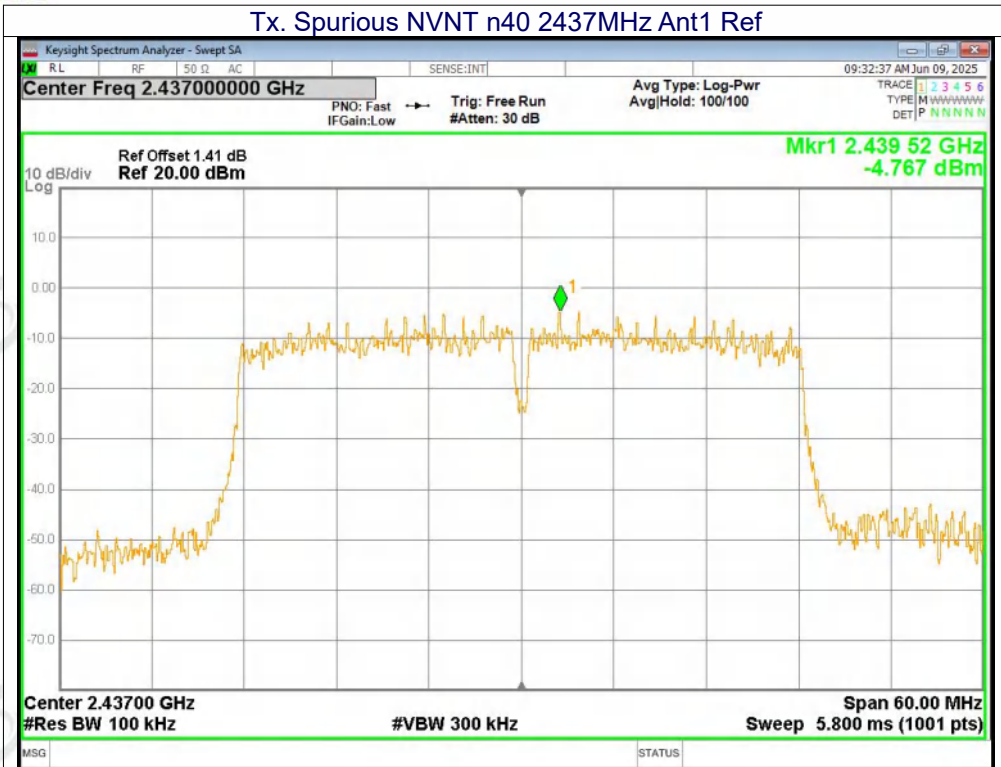
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



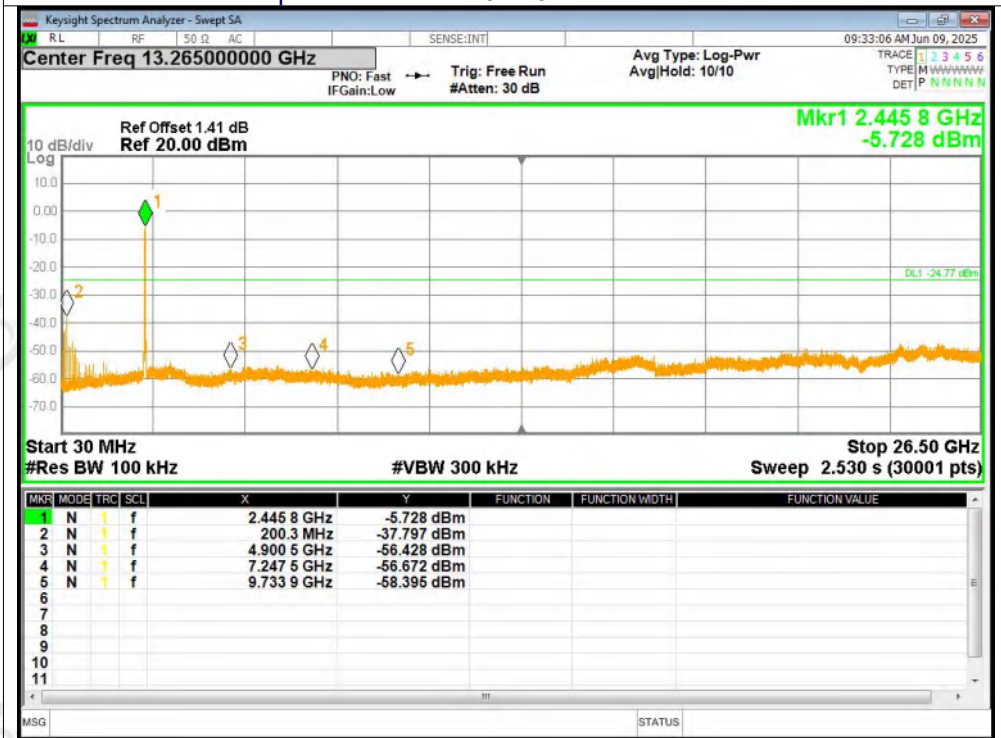
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



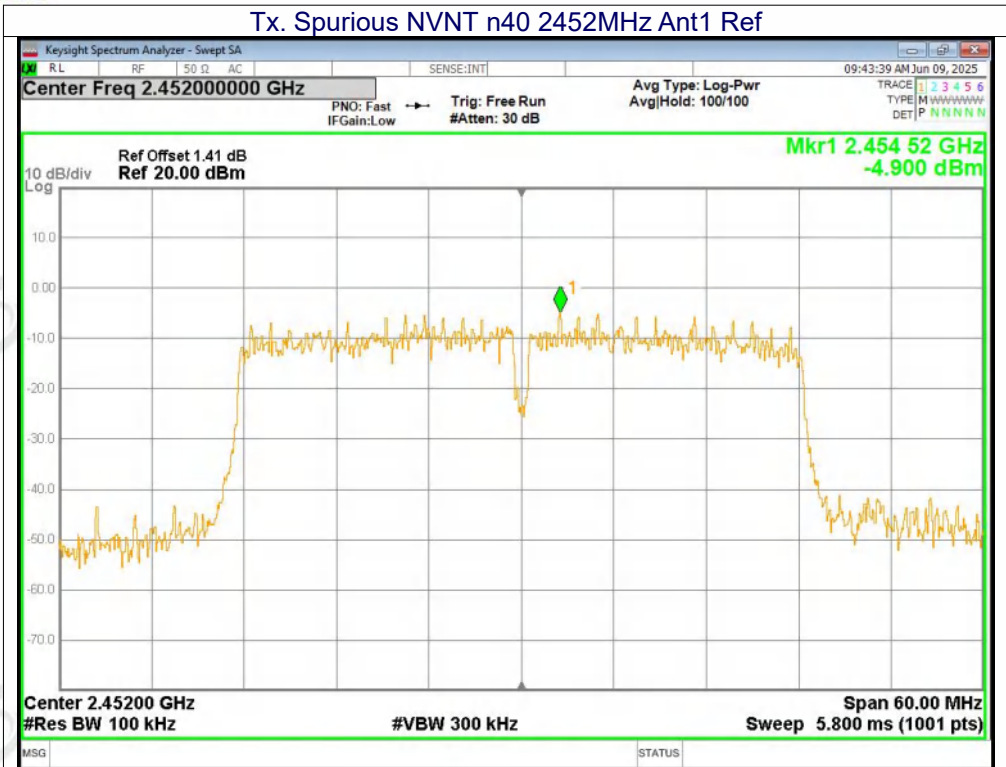
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



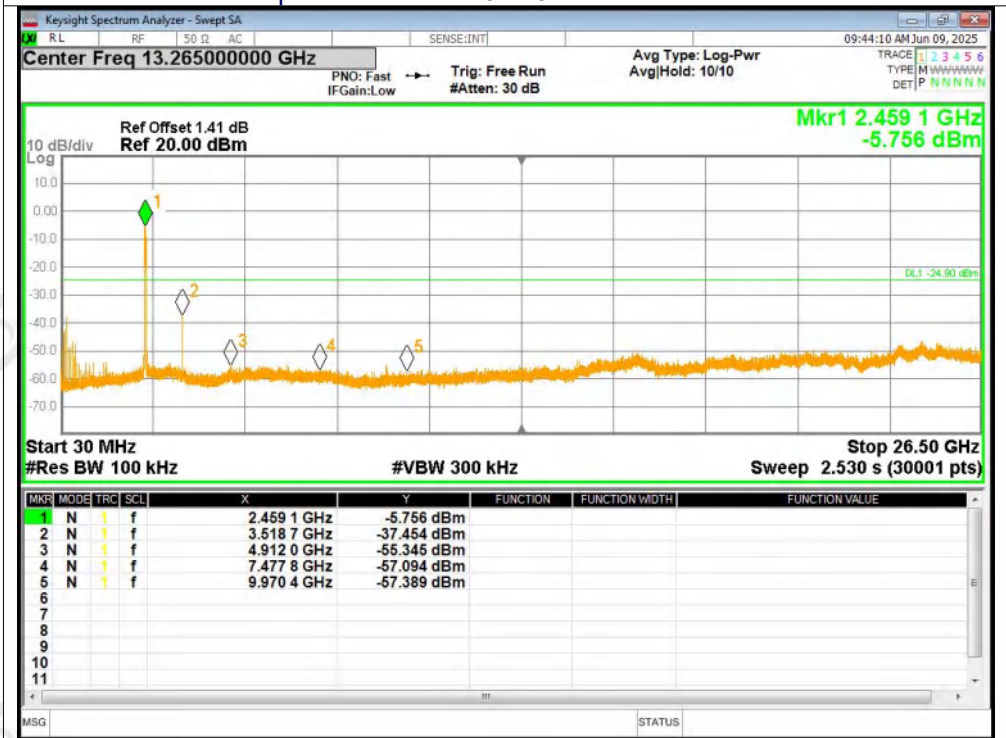
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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 *******