



FCC TEST REPORT

FCC ID:2A27V-F-95

Report Number.....: **ZKT-241017L13344E**

Date of Test.....: Sept. 23, 2024 to Oct. 14, 2024

Date of issue.....: Oct. 14, 2024

Test Result: PASS

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: **Dongguan Genai Technology Co., LTD**

Address: Room 101, 1st Building, No. 3, Kuiqiao Road, Puxin lake, Tangxia town, Dongguan city, Guangdong Province, China

Manufacturer's name: **Dongguan Genai Technology Co., LTD**

Address: Room 101, 1st Building, No. 3, Kuiqiao Road, Puxin lake, Tangxia town, Dongguan city, Guangdong Province, China

Test specification:

Standard.....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

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

Non-standard test method: N/A

This device described above has been tested by ZKT, 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.....: **bluetooth headset**

Trademark: /

Model/Type reference.....: F-95

Model Difference.....: /

Ratings.....: Input: DC 5V or DC 3.7V powered by battery



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.
Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Alen He

Reviewer (name + signature).....: Joe Liu

Approved (name + signature).....: Lake Xie



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1. Version

Report No.	Version	Description	Approved
ZKT-241017L13344E	Rev.01	Initial issue of report	Oct. 14, 2024



2. TEST SUMMARY

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	
15.207	AC Power Line Conducted Emission	N/A	
15.247 (b)(1)	Conducted Output Power	PASS	
15.247 (a)(1)	20dB Occupied Bandwidth	PASS	
15.247 (a)(1)	Carrier Frequencies Separation	PASS	
15.247 (a)(1)(iii)	Hopping Channel Number	PASS	
15.247 (a)(1)(iii)	Dwell Time	PASS	
15.205/15.209	Radiated Emission and Restricted Band	PASS	
15.247(d)	Conducted Unwanted emissions and Band Edge	PASS	

NOTE:

- (1) " N/A" denotes test is not applicable in this Test Report
- (2) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'a District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 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	$\pm 4.96\%$



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	bluetooth headset
Test Model No.:	F-95
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Channel numbers:	79
Channel separation:	1 MHz
Modulation technology:	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type:	PCB Antenna
Antenna gain:	-0.58dBi



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz



3.2 Test Setup Configuration

Radiated Emission

EUT

3.3 Support Equipment

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.

3.4 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, 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.	



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS
Radiation emissions& Radio Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Nov. 02, 2023	Nov. 01, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Nov. 02, 2023	Nov. 01, 2024
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Nov. 02, 2023	Nov. 01, 2024
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 13, 2023	Nov. 12, 2024
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 13, 2023	Nov. 12, 2024
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Nov. 13, 2023	Nov. 12, 2024
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 16, 2023	Nov. 15, 2024
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Nov. 02, 2023	Nov. 01, 2024
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Nov. 02, 2023	Nov. 01, 2024
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Nov. 02, 2023	Nov. 01, 2024
11	Test Cable	N/A	R-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
12	Test Cable	N/A	R-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
13	Test Cable	N/A	R-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
14	Test Cable	N/A	RF-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
15	Test Cable	N/A	RF-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
16	Test Cable	N/A	RF-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
17	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Nov. 02, 2023	Nov. 01, 2024
18	Signal Generator	Agilent	N5182A	N/A	A.01.87	Nov. 02, 2023	Nov. 01, 2024
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 16, 2023	Nov. 15, 2024
20	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Nov. 02, 2023	Nov. 01, 2024
21	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
24	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\
25	Turntable	MF	MF-7802BS	N/A	N/A	\	\
26	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



Conducted emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Nov. 14, 2023	Nov. 13, 2024
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Nov. 02, 2023	Nov. 01, 2024
3	Test Cable	N/A	C-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
4	Test Cable	N/A	C-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Test Cable	N/A	C-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Nov. 02, 2023	Nov. 01, 2024
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Nov. 07, 2023	Nov. 06, 2024
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\



4. EMC EMISSION TEST

4.1 Conducted emissions

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

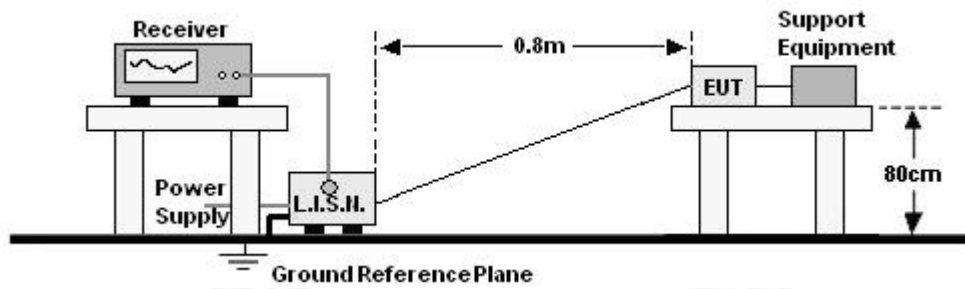
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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

N/A

This product charging and Bluetooth cannot be used at the same time.



4.2 Radiated emissions

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 (micровolts/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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 10dB margin 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 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

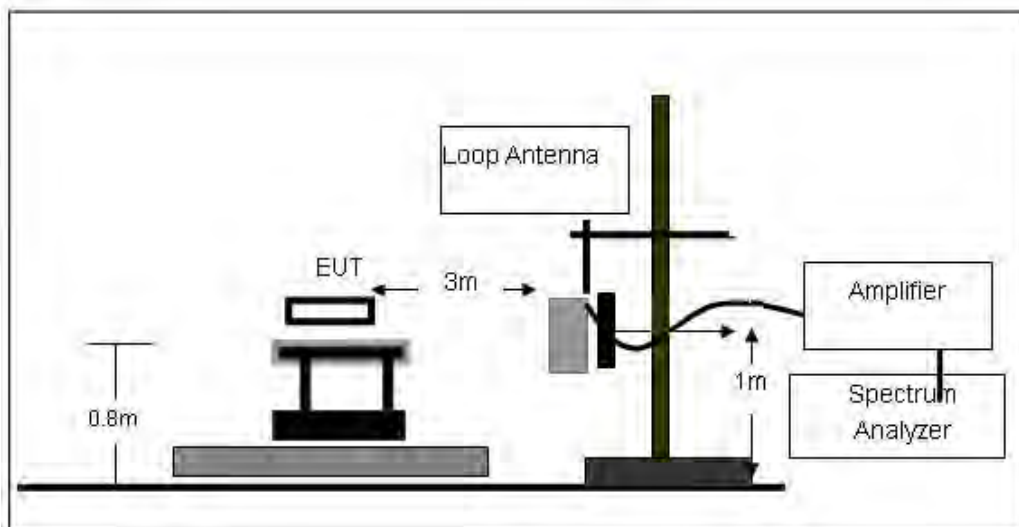
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

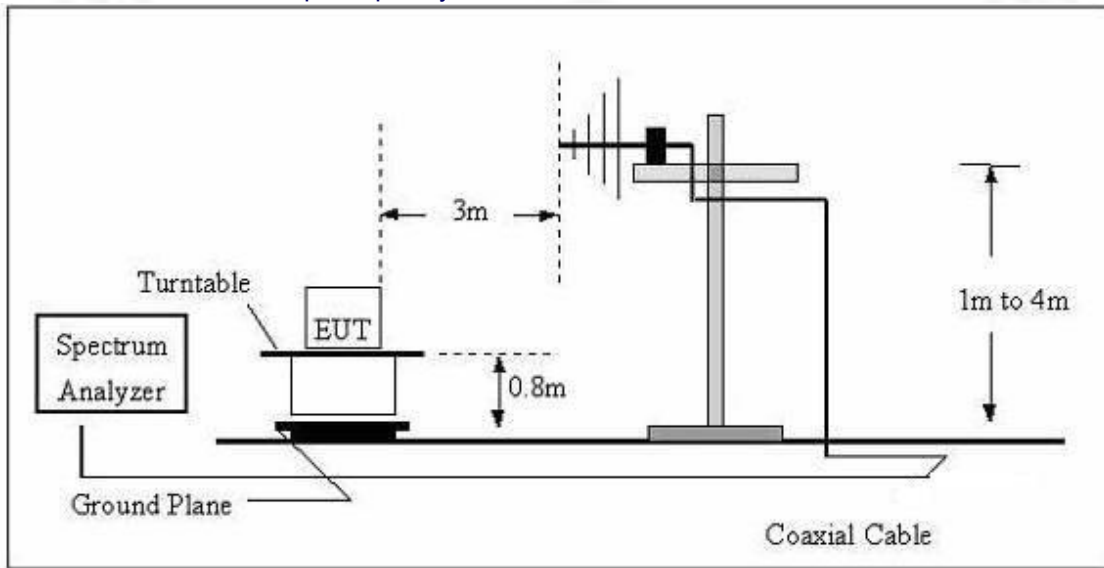
4.2.4 TEST SETUP

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

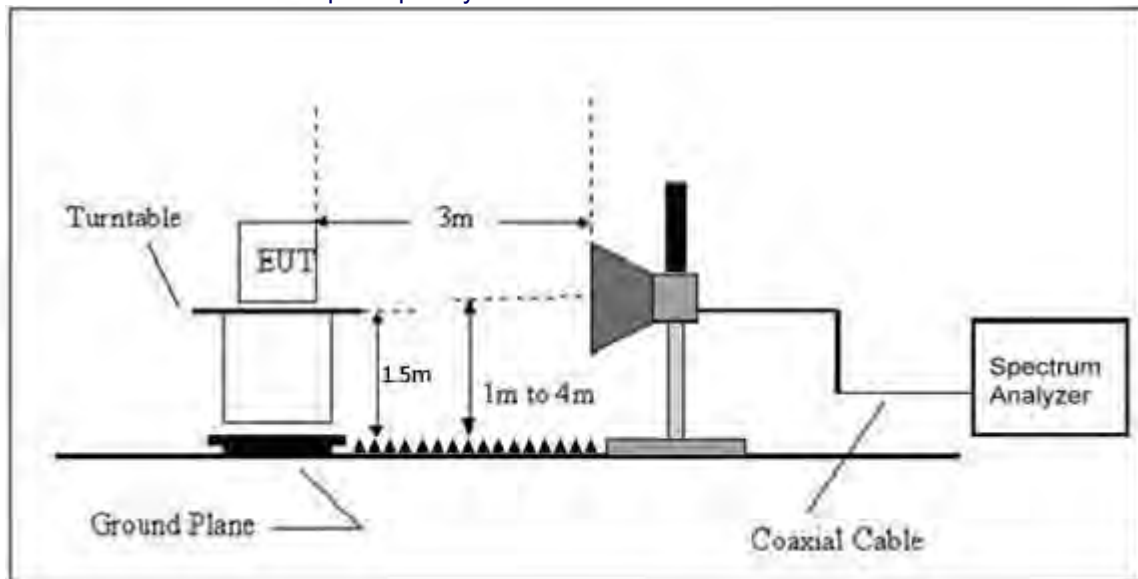




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(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.



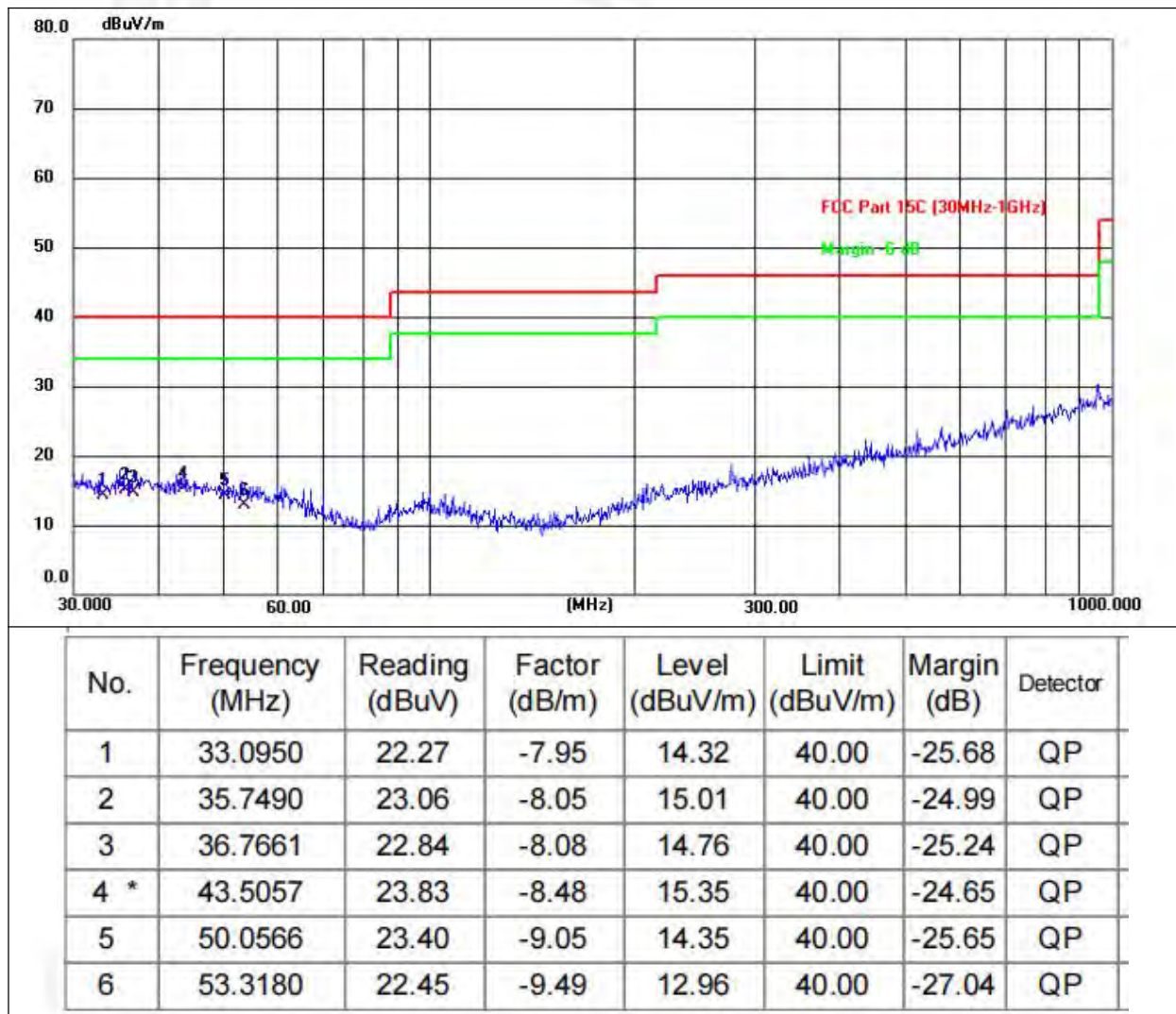
4.2.6 TEST RESULTS

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), the test result no need to reported.

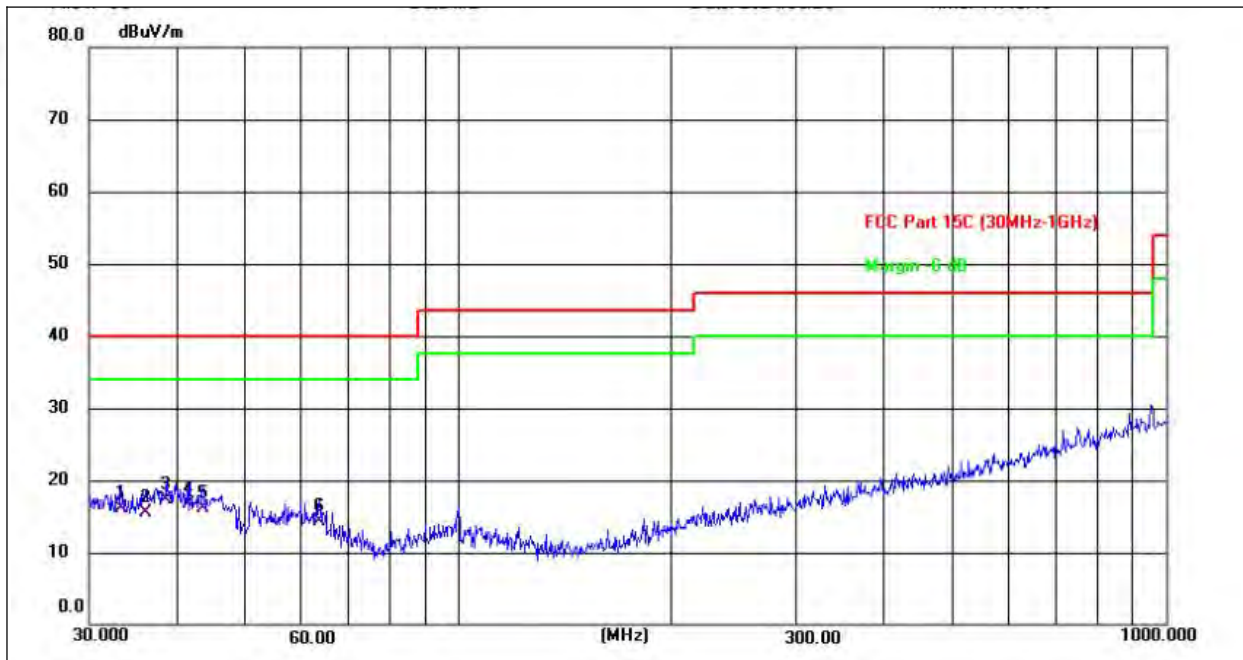
Between 30MHz – 1GHz

Temperature:	25.6 °C	Relative Humidity:	47%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V		





Temperature:	25.6°C	Relative Humidity:	47%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.3278	23.99	-7.95	16.04	40.00	-23.96	QP
2	36.1271	23.65	-8.06	15.59	40.00	-24.41	QP
3 *	38.6160	25.51	-8.14	17.37	40.00	-22.63	QP
4	41.7129	25.09	-8.34	16.75	40.00	-23.25	QP
5	43.5057	24.65	-8.48	16.17	40.00	-23.83	QP
6	63.5356	25.68	-11.36	14.32	40.00	-25.68	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 8DPSK mode(Middle Channel:2441MHz).



1GHz~25GHz

GFSK

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	4804	58.01	30.55	5.77	24.66	57.89	74	-16.11	Pk
V	4804	41.81	30.55	5.77	24.66	41.69	54	-12.31	AV
V	7206	56.55	30.33	6.32	24.55	57.09	74	-16.91	Pk
V	7206	41.77	30.33	6.32	24.55	42.31	54	-11.69	AV
H	4804	57.81	30.55	5.77	24.66	57.69	74	-16.31	Pk
H	4804	44.12	30.55	5.77	24.66	44	54	-10	AV
H	7206	55.12	30.33	6.32	24.55	55.66	74	-18.34	Pk
H	7206	43.74	30.33	6.32	24.55	44.28	54	-9.72	AV
Middle Channel:2441MHz									
V	4882	55.82	30.55	5.77	24.66	55.7	74	-18.3	Pk
V	4882	41.43	30.55	5.77	24.66	41.31	54	-12.69	AV
V	7323	58.17	30.33	6.32	24.55	58.71	74	-15.29	Pk
V	7323	44.1	30.33	6.32	24.55	44.64	54	-9.36	AV
H	4882	57.99	30.55	5.77	24.66	57.87	74	-16.13	Pk
H	4882	41.31	30.55	5.77	24.66	41.19	54	-12.81	AV
H	7323	59.17	30.33	6.32	24.55	59.71	74	-14.29	Pk
H	7323	41.09	30.33	6.32	24.55	41.63	54	-12.37	AV
High Channel:2480MHz									
V	4960	57.5	30.55	5.77	24.66	57.38	74	-16.62	Pk
V	4960	41.14	30.55	5.77	24.66	41.02	54	-12.98	AV
V	7440	55.92	30.33	6.32	24.55	56.46	74	-17.54	Pk
V	7440	44.93	30.33	6.32	24.55	45.47	54	-8.53	AV
H	4960	56.38	30.55	5.77	24.66	56.26	74	-17.74	Pk
H	4960	44.3	30.55	5.77	24.66	44.18	54	-9.82	AV
H	7440	56.64	30.33	6.32	24.55	57.18	74	-16.82	Pk
H	7440	44.3	30.33	6.32	24.55	44.84	54	-9.16	AV



$\pi/4$ DQPSK

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	4804	58.18	30.55	5.77	24.66	58.06	74	-15.94	Pk
V	4804	44.11	30.55	5.77	24.66	43.99	54	-10.01	AV
V	7206	59.92	30.33	6.32	24.55	60.46	74	-13.54	Pk
V	7206	43.07	30.33	6.32	24.55	43.61	54	-10.39	AV
H	4804	57.51	30.55	5.77	24.66	57.39	74	-16.61	Pk
H	4804	41.85	30.55	5.77	24.66	41.73	54	-12.27	AV
H	7206	57.6	30.33	6.32	24.55	58.14	74	-15.86	Pk
H	7206	41.53	30.33	6.32	24.55	42.07	54	-11.93	AV
Middle Channel:2441MHz									
V	4882	58.11	30.55	5.77	24.66	57.99	74	-16.01	Pk
V	4882	41.48	30.55	5.77	24.66	41.36	54	-12.64	AV
V	7323	59.63	30.33	6.32	24.55	60.17	74	-13.83	Pk
V	7323	44.43	30.33	6.32	24.55	44.97	54	-9.03	AV
H	4882	59.61	30.55	5.77	24.66	59.49	74	-14.51	Pk
H	4882	41.73	30.55	5.77	24.66	41.61	54	-12.39	AV
H	7323	59.92	30.33	6.32	24.55	60.46	74	-13.54	Pk
H	7323	41.4	30.33	6.32	24.55	41.94	54	-12.06	AV
High Channel:2480MHz									
V	4960	56.57	30.55	5.77	24.66	56.45	74	-17.55	Pk
V	4960	41.31	30.55	5.77	24.66	41.19	54	-12.81	AV
V	7440	59.48	30.33	6.32	24.55	60.02	74	-13.98	Pk
V	7440	44.63	30.33	6.32	24.55	45.17	54	-8.83	AV
H	4960	58.86	30.55	5.77	24.66	58.74	74	-15.26	Pk
H	4960	44.6	30.55	5.77	24.66	44.48	54	-9.52	AV
H	7440	58.3	30.33	6.32	24.55	58.84	74	-15.16	Pk
H	7440	41.86	30.33	6.32	24.55	42.4	54	-11.6	AV



8DPSK

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	4804	58.51	30.55	5.77	24.66	58.39	74	-15.61	Pk
V	4804	44.21	30.55	5.77	24.66	44.09	54	-9.91	AV
V	7206	59.19	30.33	6.32	24.55	59.73	74	-14.27	Pk
V	7206	43.58	30.33	6.32	24.55	44.12	54	-9.88	AV
H	4804	56.38	30.55	5.77	24.66	56.26	74	-17.74	Pk
H	4804	42.78	30.55	5.77	24.66	42.66	54	-11.34	AV
H	7206	58.53	30.33	6.32	24.55	59.07	74	-14.93	Pk
H	7206	43.69	30.33	6.32	24.55	44.23	54	-9.77	AV
Middle Channel:2441MHz									
V	4882	57.89	30.55	5.77	24.66	57.77	74	-16.23	Pk
V	4882	41.74	30.55	5.77	24.66	41.62	54	-12.38	AV
V	7323	58.79	30.33	6.32	24.55	59.33	74	-14.67	Pk
V	7323	44.43	30.33	6.32	24.55	44.97	54	-9.03	AV
H	4882	55.99	30.55	5.77	24.66	55.87	74	-18.13	Pk
H	4882	41.62	30.55	5.77	24.66	41.5	54	-12.5	AV
H	7323	55.5	30.33	6.32	24.55	56.04	74	-17.96	Pk
H	7323	41.03	30.33	6.32	24.55	41.57	54	-12.43	AV
High Channel:2480MHz									
V	4960	56.45	30.55	5.77	24.66	56.33	74	-17.67	Pk
V	4960	41.51	30.55	5.77	24.66	41.39	54	-12.61	AV
V	7440	59.12	30.33	6.32	24.55	59.66	74	-14.34	Pk
V	7440	42.84	30.33	6.32	24.55	43.38	54	-10.62	AV
H	4960	57.37	30.55	5.77	24.66	57.25	74	-16.75	Pk
H	4960	41.52	30.55	5.77	24.66	41.4	54	-12.6	AV
H	7440	55.72	30.33	6.32	24.55	56.26	74	-17.74	Pk
H	7440	42.28	30.33	6.32	24.55	42.82	54	-11.18	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.



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 1GHz	Peak	1MHz	3MHz	Peak
		Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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 10dB margin 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:

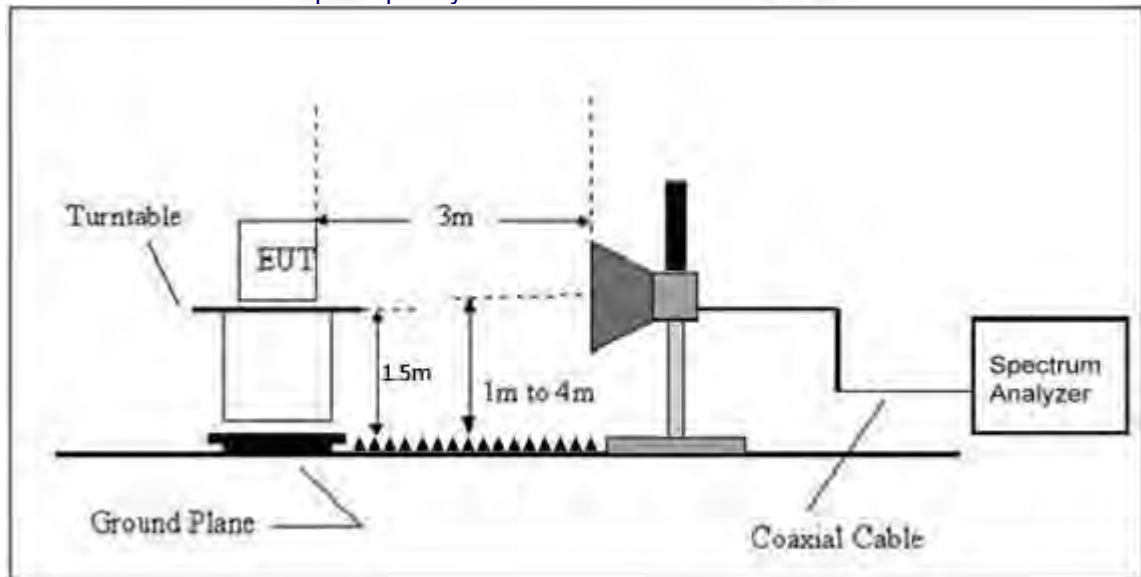
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

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
GFSK	Low Channel: 2402MHz										
	H	2390.00	60.26	30.22	4.85	23.98	58.87	74.00	-15.13	Pk	PASS
	H	2390.00	47.45	30.22	4.85	23.98	46.06	54.00	-7.94	AV	PASS
	H	2400.00	62.15	30.22	4.85	23.98	60.76	74.00	-13.24	Pk	PASS
	H	2400.00	47.38	30.22	4.85	23.98	45.99	54.00	-8.01	AV	PASS
	V	2390.00	59.67	30.22	4.85	23.98	58.28	74.00	-15.72	Pk	PASS
	V	2390.00	47.98	30.22	4.85	23.98	46.59	54.00	-7.41	AV	PASS
	V	2400.00	62.26	30.22	4.85	23.98	60.87	74.00	-13.13	Pk	PASS
	V	2400.00	46.26	30.22	4.85	23.98	44.87	54.00	-9.13	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	62.10	30.22	4.85	23.98	60.71	74.00	-13.29	PK	PASS
	H	2483.50	47.46	30.22	4.85	23.98	46.07	54.00	-7.93	AV	PASS
	H	2500.00	59.27	30.22	4.85	23.98	57.88	74.00	-16.12	PK	PASS
	H	2500.00	48.09	30.22	4.85	23.98	46.70	54.00	-7.30	AV	PASS
	V	2483.50	59.77	30.22	4.85	23.98	58.38	74.00	-15.62	PK	PASS
	V	2483.50	46.51	30.22	4.85	23.98	45.12	54.00	-8.88	AV	PASS
V	2500.00	62.79	30.22	4.85	23.98	61.40	74.00	-12.60	PK	PASS	
V	2500.00	48.48	30.22	4.85	23.98	47.09	54.00	-6.91	AV	PASS	
π/4DQPSK	Low Channel: 2402MHz										
	H	2390.00	59.26	30.22	4.85	23.98	57.87	74.00	-16.13	PK	PASS
	H	2390.00	46.37	30.22	4.85	23.98	44.98	54.00	-9.02	AV	PASS
	H	2400.00	62.93	30.22	4.85	23.98	61.54	74.00	-12.46	PK	PASS
	H	2400.00	48.30	30.22	4.85	23.98	46.91	54.00	-7.09	AV	PASS
	V	2390.00	59.83	30.22	4.85	23.98	58.44	74.00	-15.56	PK	PASS
	V	2390.00	48.40	30.22	4.85	23.98	47.01	54.00	-6.99	AV	PASS
	V	2400.00	61.37	30.22	4.85	23.98	59.98	74.00	-14.02	PK	PASS
	V	2400.00	46.61	30.22	4.85	23.98	45.22	54.00	-8.78	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	59.98	30.22	4.85	23.98	58.59	74.00	-15.41	PK	PASS
	H	2483.50	47.39	30.22	4.85	23.98	46.00	54.00	-8.00	AV	PASS
	H	2500.00	62.39	30.22	4.85	23.98	61.00	74.00	-13.00	PK	PASS
	H	2500.00	47.43	30.22	4.85	23.98	46.04	54.00	-7.96	AV	PASS
	V	2483.50	60.94	30.22	4.85	23.98	59.55	74.00	-14.45	PK	PASS
	V	2483.50	48.30	30.22	4.85	23.98	46.91	54.00	-7.09	AV	PASS
V	2500.00	60.77	30.22	4.85	23.98	59.38	74.00	-14.62	PK	PASS	
V	2500.00	48.00	30.22	4.85	23.98	46.61	54.00	-7.39	AV	PASS	
8DPSK	Low Channel: 2402MHz										
	H	2390.00	61.96	30.22	4.85	23.98	60.57	74.00	-13.43	PK	PASS
	H	2390.00	46.23	30.22	4.85	23.98	44.84	54.00	-9.16	AV	PASS
	H	2400.00	62.14	30.22	4.85	23.98	60.75	74.00	-13.25	PK	PASS
	H	2400.00	46.62	30.22	4.85	23.98	45.23	54.00	-8.77	AV	PASS
	V	2390.00	62.66	30.22	4.85	23.98	61.27	74.00	-12.73	PK	PASS
	V	2390.00	46.97	30.22	4.85	23.98	45.58	54.00	-8.42	AV	PASS
	V	2400.00	60.36	30.22	4.85	23.98	58.97	74.00	-15.03	PK	PASS
	V	2400.00	46.35	30.22	4.85	23.98	44.96	54.00	-9.04	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	61.81	30.22	4.85	23.98	60.42	74.00	-13.58	PK	PASS
	H	2483.50	47.42	30.22	4.85	23.98	46.03	54.00	-7.97	AV	PASS
	H	2500.00	60.63	30.22	4.85	23.98	59.24	74.00	-14.76	PK	PASS



	H	2500.00	46.89	30.22	4.85	23.98	45.50	54.00	-8.50	AV	PASS
	V	2483.50	59.33	30.22	4.85	23.98	57.94	74.00	-16.06	PK	PASS
	V	2483.50	48.51	30.22	4.85	23.98	47.12	54.00	-6.88	AV	PASS
	V	2500.00	60.26	30.22	4.85	23.98	58.87	74.00	-15.13	PK	PASS
	V	2500.00	48.42	30.22	4.85	23.98	47.03	54.00	-6.97	AV	PASS

Remark:

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



6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

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

6.1 Limit

Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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 in §15.209(a) (see §15.205(c)).

6.2 Test Setup



6.3 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.

6.4 DEVIATION FROM STANDARD

No deviation.

6.5 Test Result

Please refer to the Appendix BT



7. 20DB BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013

7.1 Test Setup



7.2 Limit

N/A

7.3 Test procedure

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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.

7.4 DEVIATION FROM STANDARD

No deviation.

7.5 Test Result

Please refer to the Appendix BT



8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013

8.1 Block Diagram Of Test Setup



8.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W.

8.3 Test procedure

The EUT was directly connected to the SPECTRUMANALYZER

8.4 DEVIATION FROM STANDARD

No deviation.

8.5 Test Result

Please refer to the Appendix BT



9. HOPPING CHANNEL SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=30KHz, VBW=100KHz, detector=Peak
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)

9.1 Test Setup



9.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 Test Result

Please refer to the Appendix BT



10. NUMBER OF HOPPING FREQUENCY

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels

10.1 Test Setup



10.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 Test Result

Please refer to the Appendix BT



11. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second

11.1 Test Setup



11.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0Hz;
3. Set RBW = 1MHz and VBW = 3MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

11.3 DEVIATION FROM STANDARD

No deviation.

11.4 Test Result

Please refer to the Appendix BT



12. ANTENNA REQUIREMENT

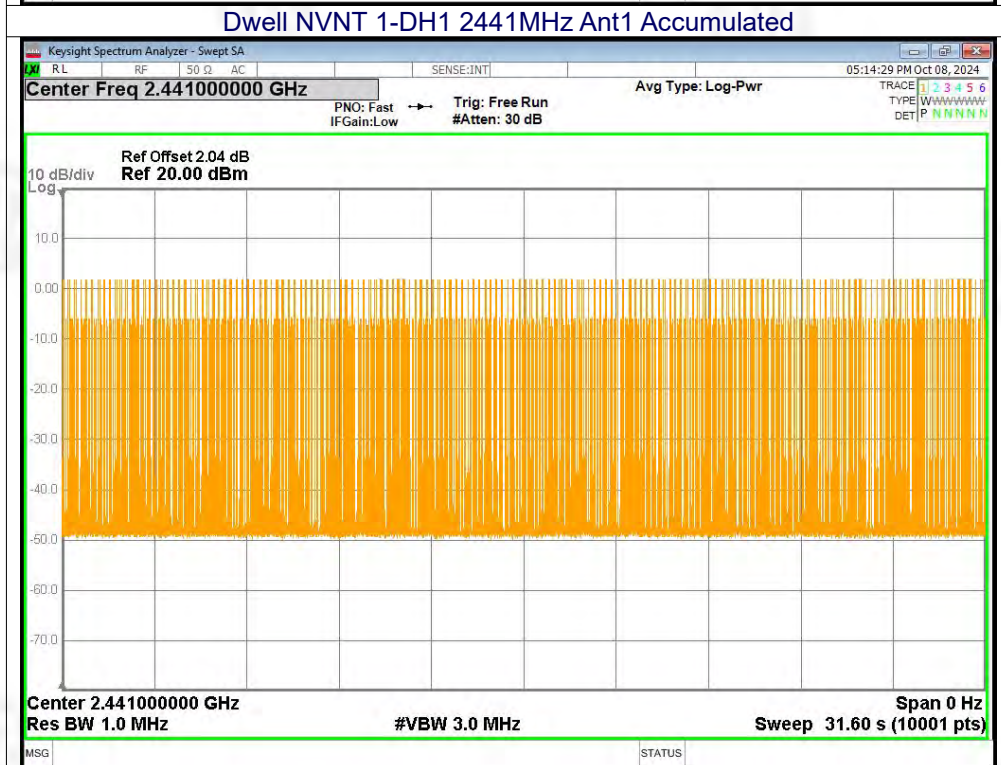
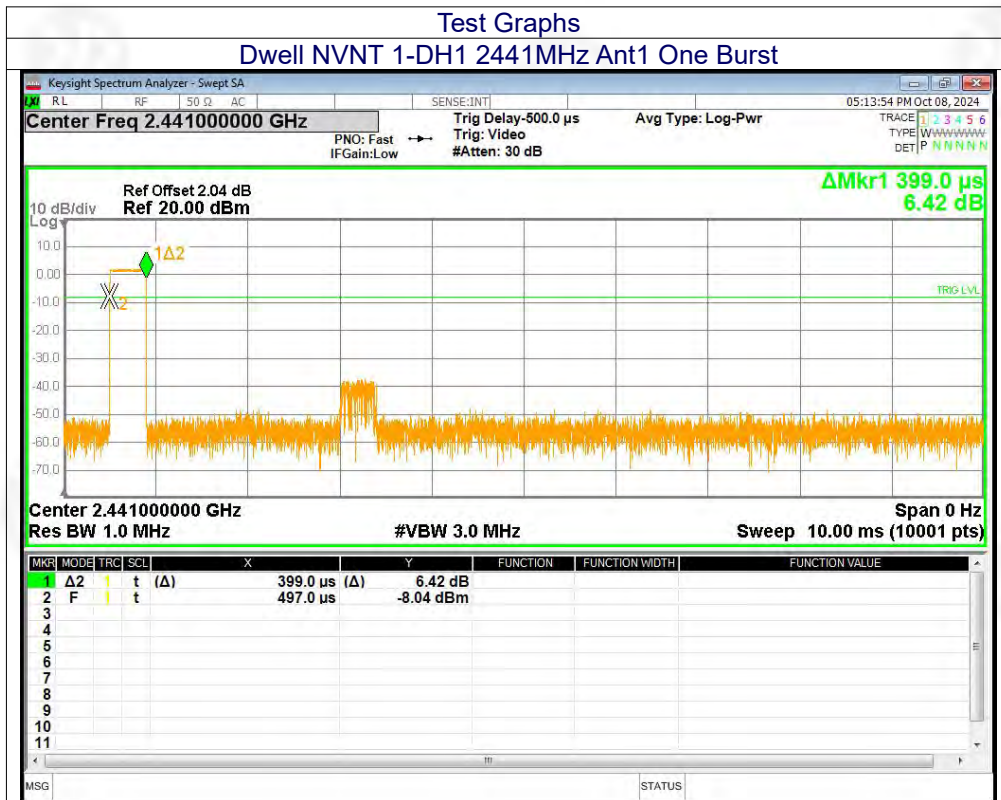
Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a 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 -0.58dBi, reference to the appendix II for details	

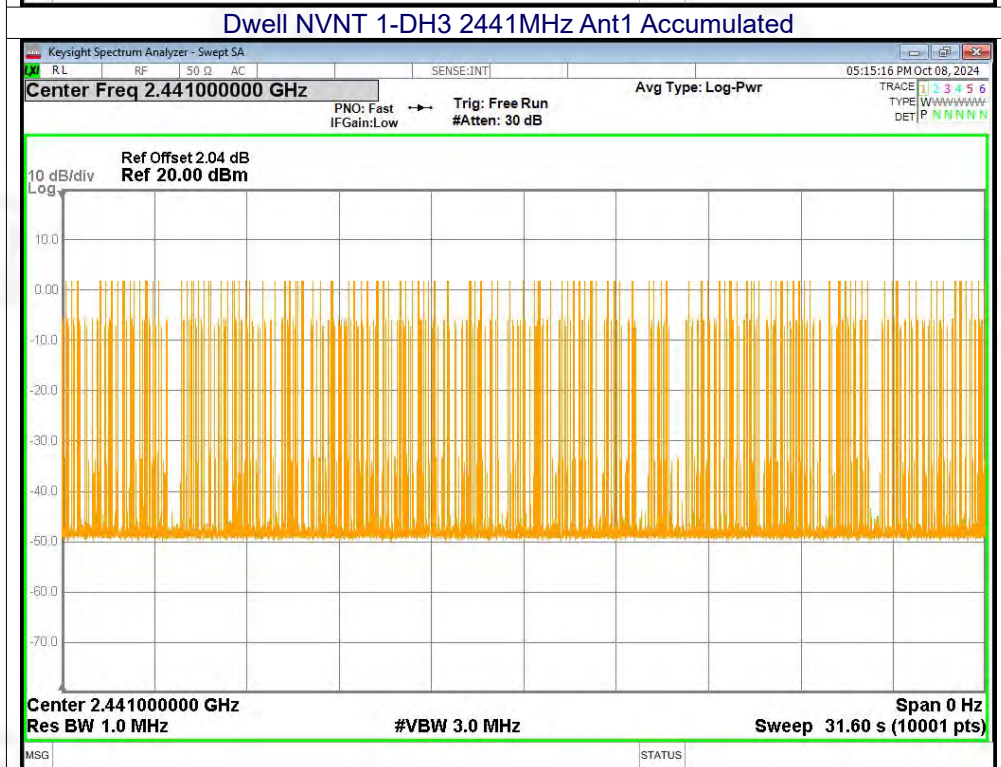
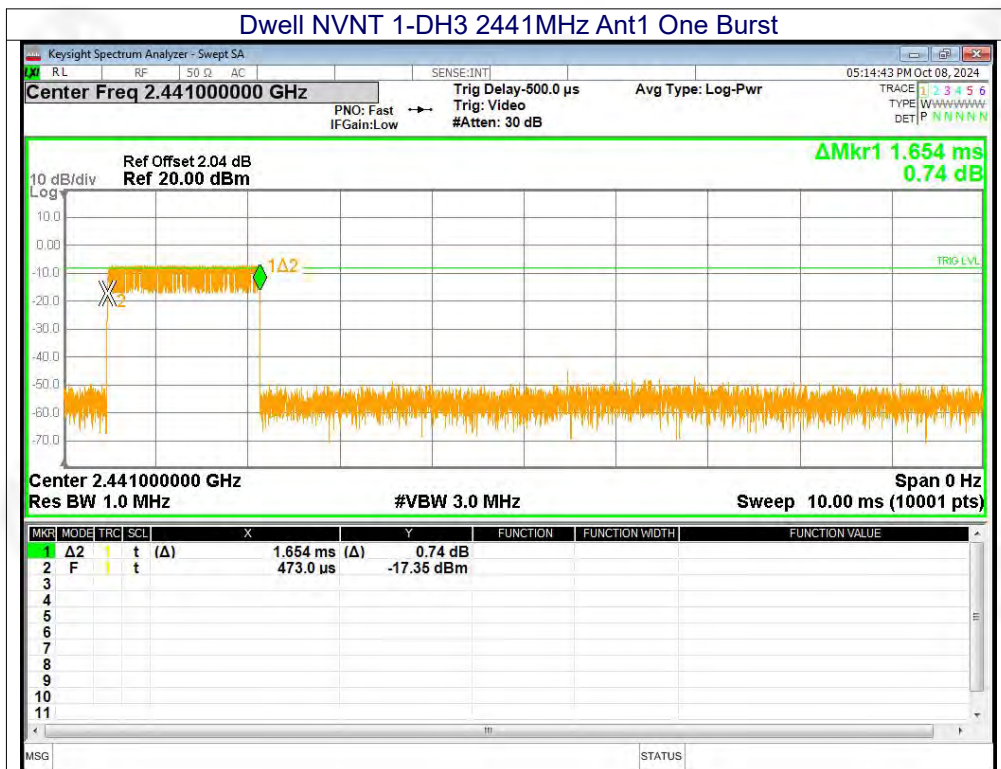


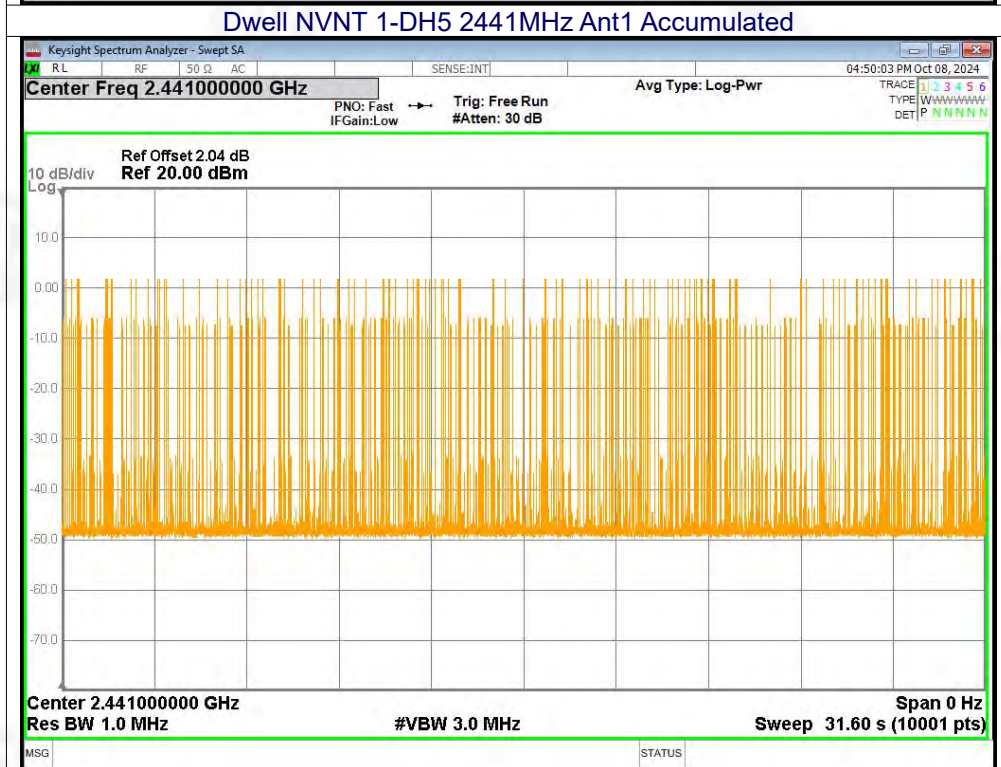
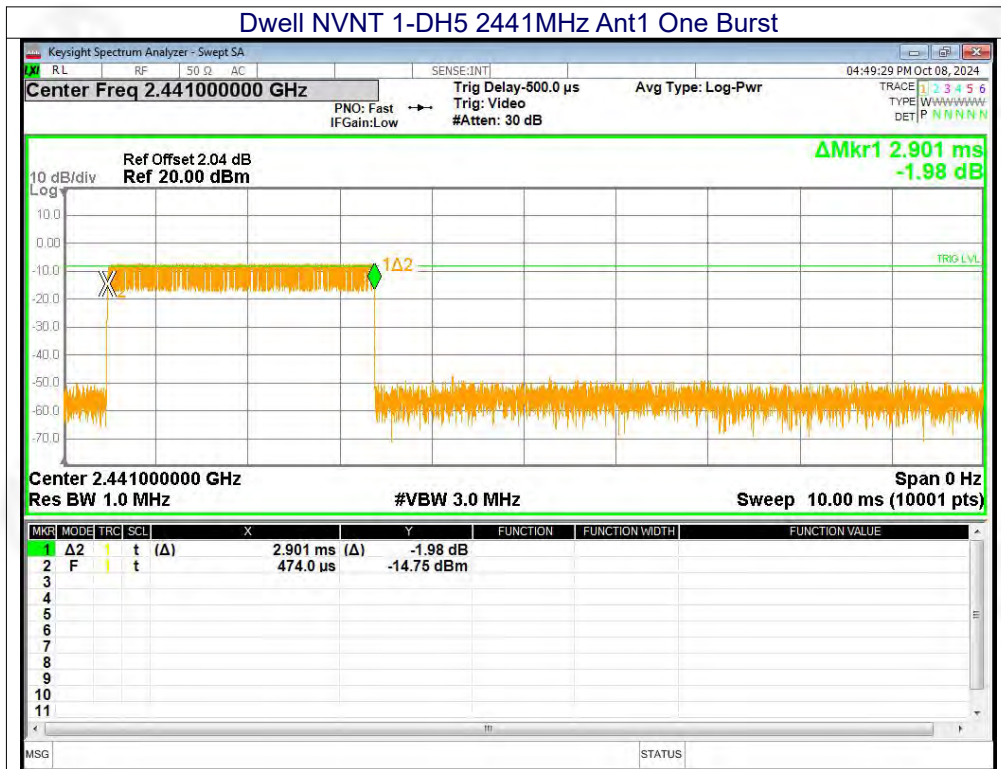
13.APPENDIX BT

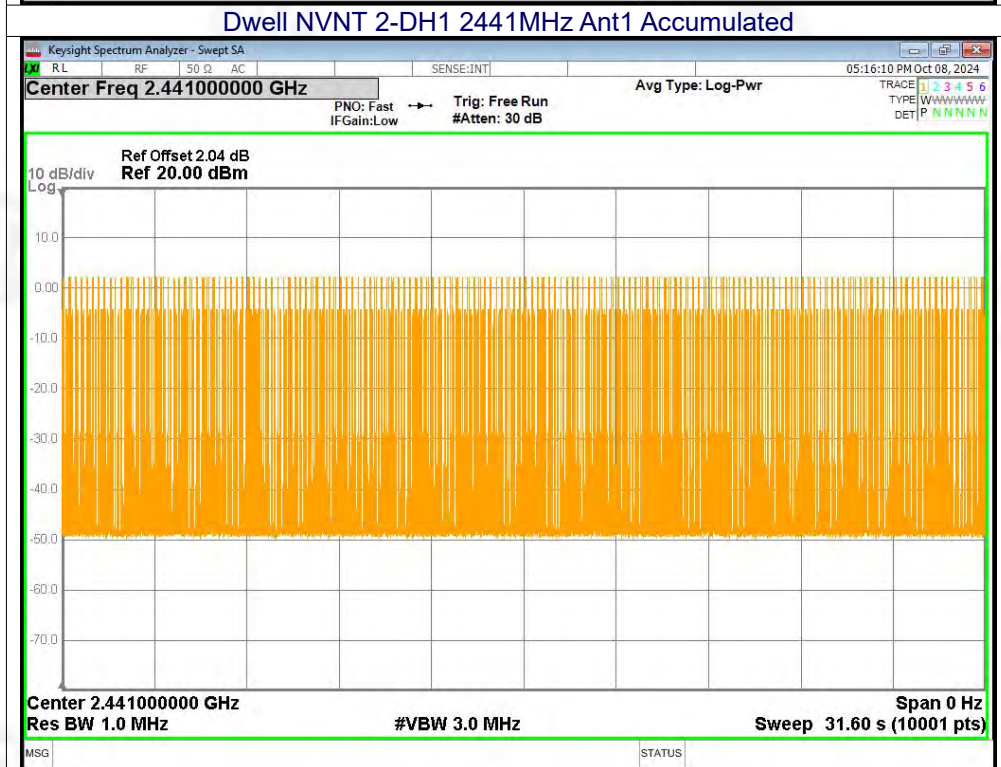
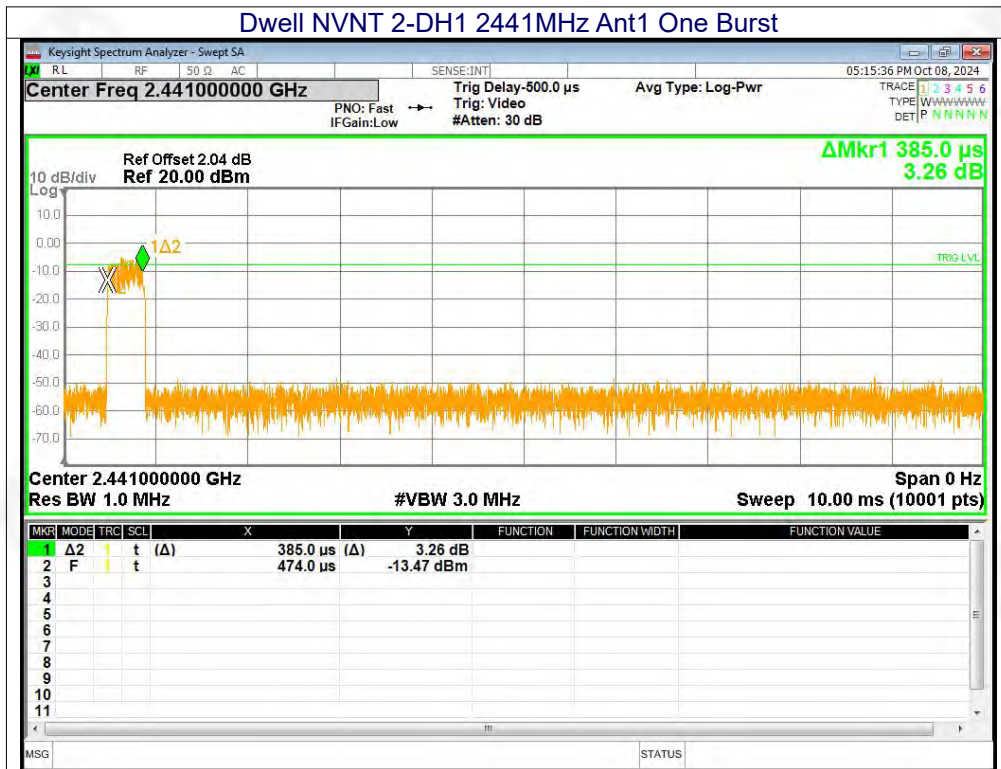
13.1 Dwell Time

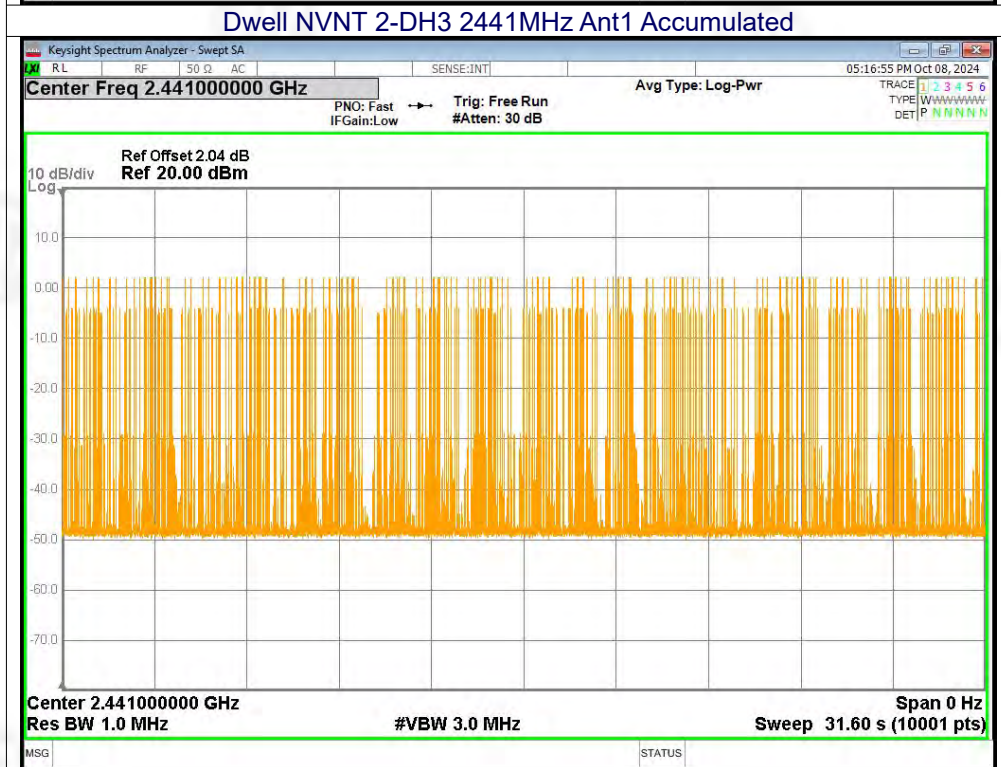
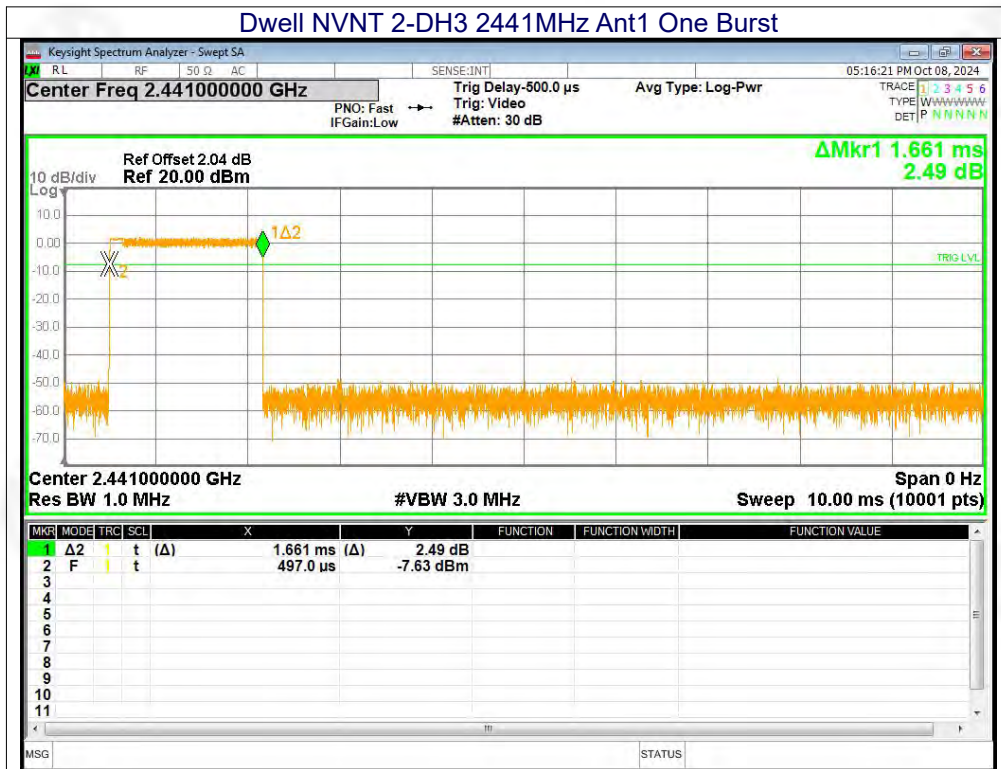
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.399	127.281	319	31600	400	Pass
1-DH3	2441	1.654	251.408	152	31600	400	Pass
1-DH5	2441	2.901	327.813	113	31600	400	Pass
2-DH1	2441	0.385	123.2	320	31600	400	Pass
2-DH3	2441	1.661	262.438	158	31600	400	Pass
2-DH5	2441	2.906	302.224	104	31600	400	Pass
3-DH1	2441	0.407	129.019	317	31600	400	Pass
3-DH3	2441	1.657	265.12	160	31600	400	Pass
3-DH5	2441	2.911	294.011	101	31600	400	Pass

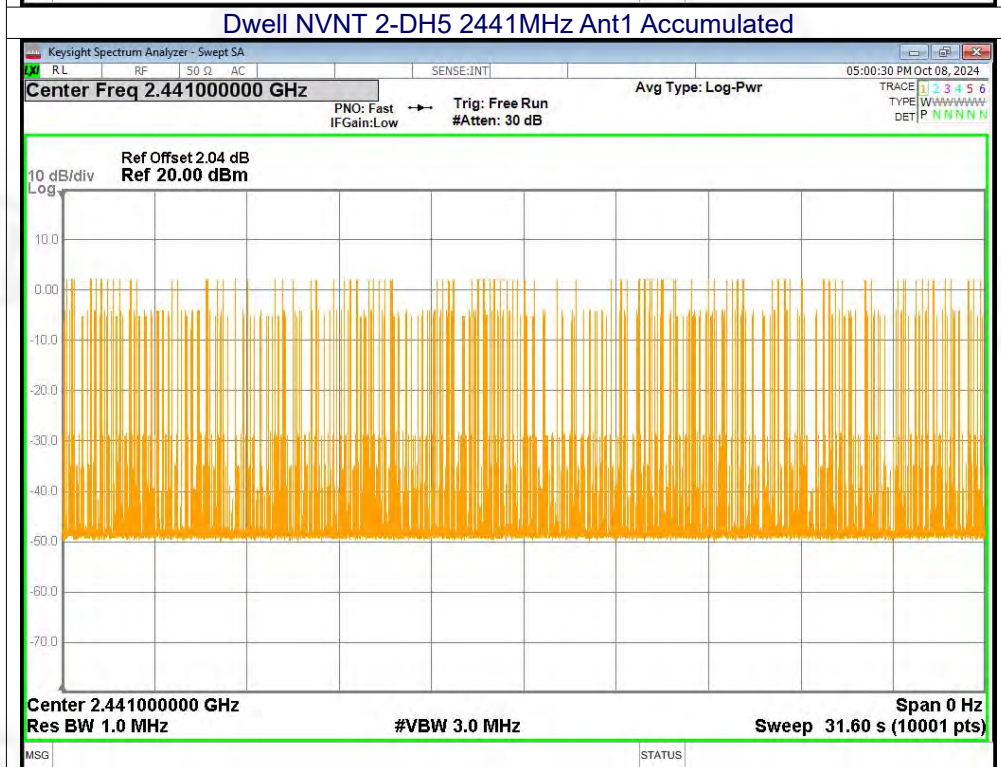
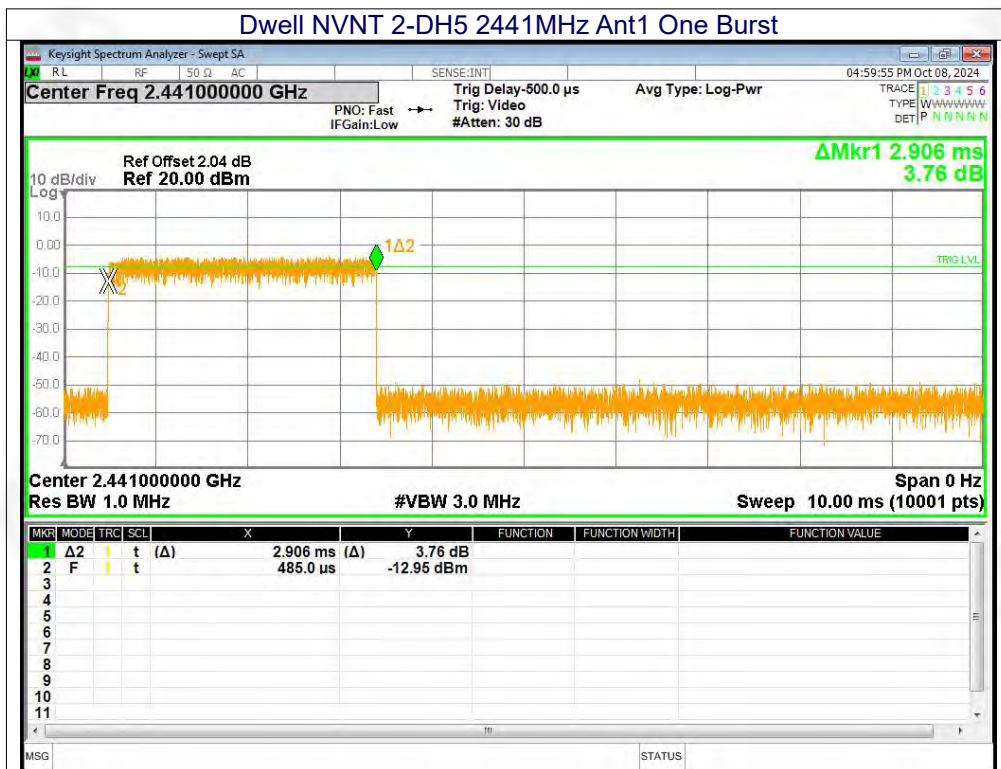


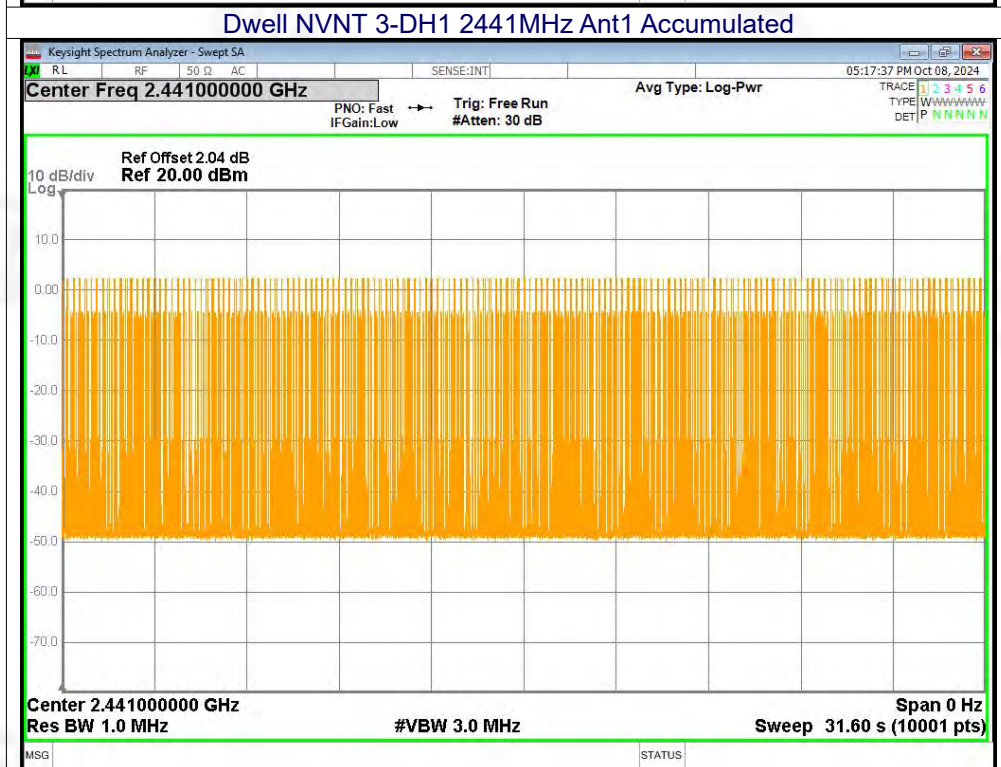
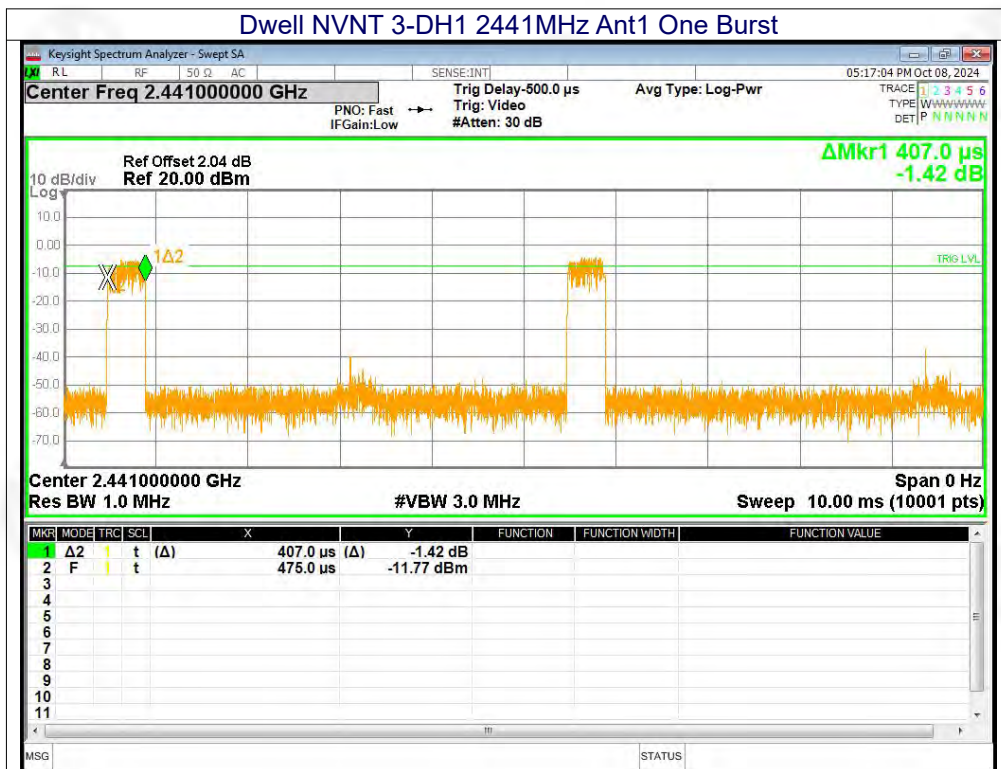


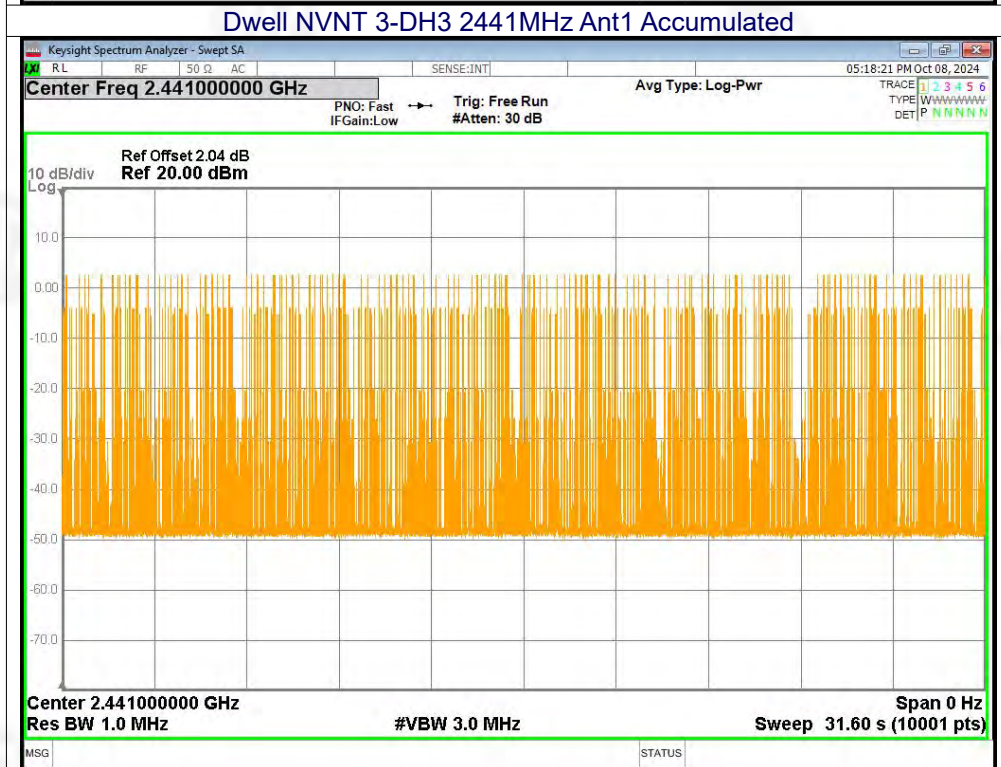
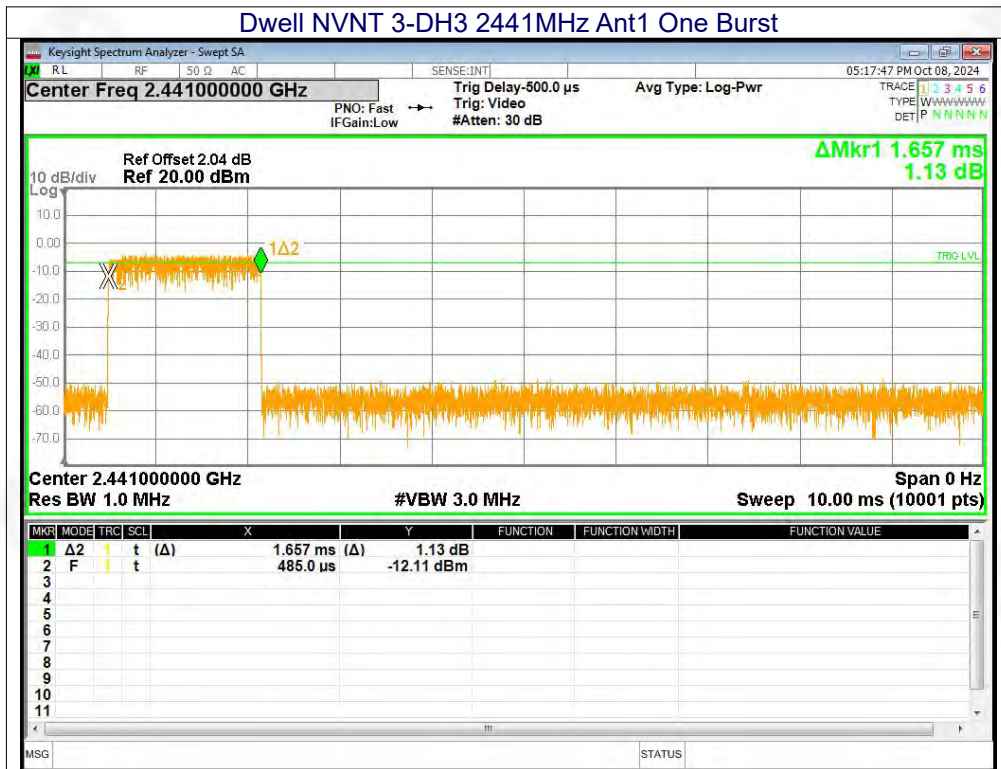


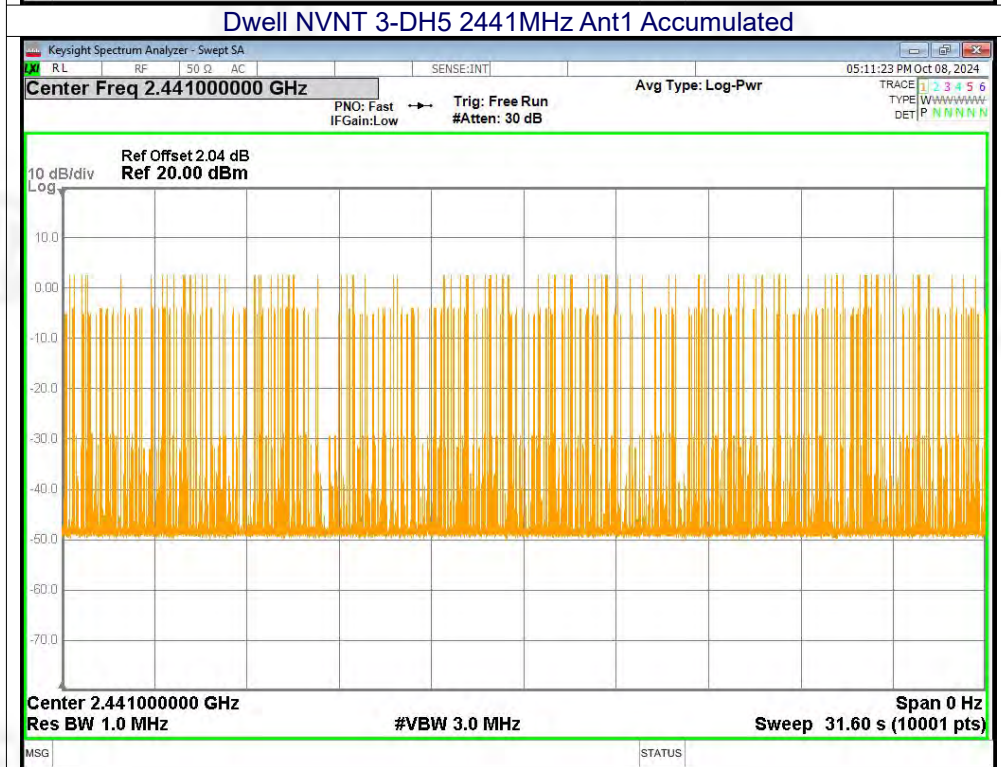
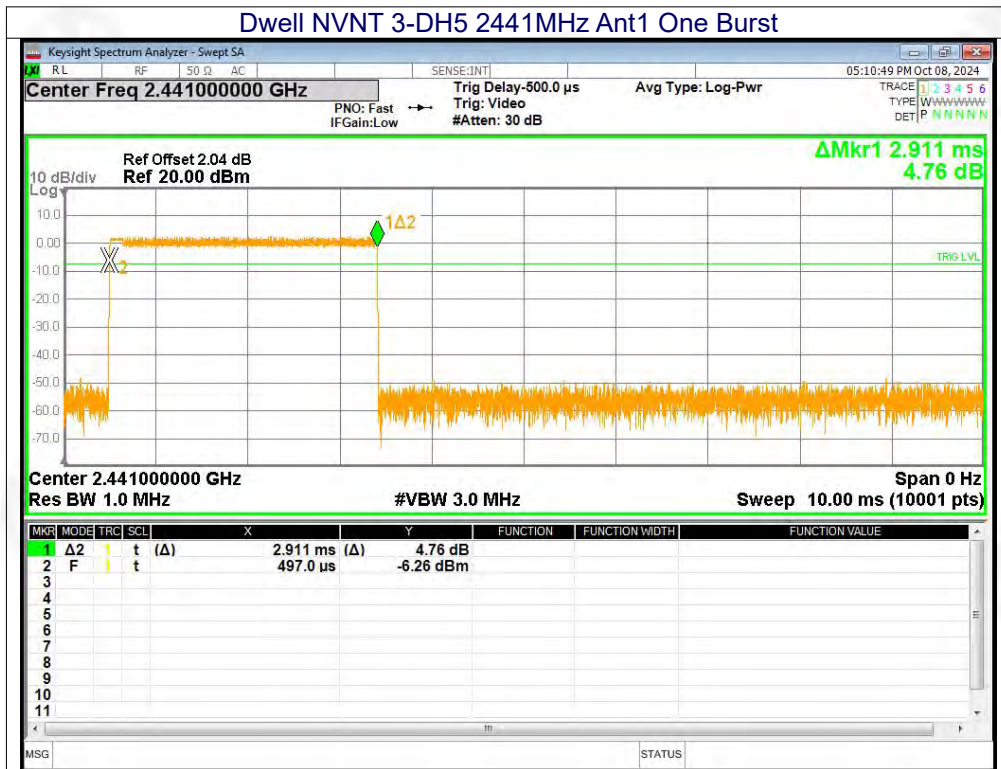








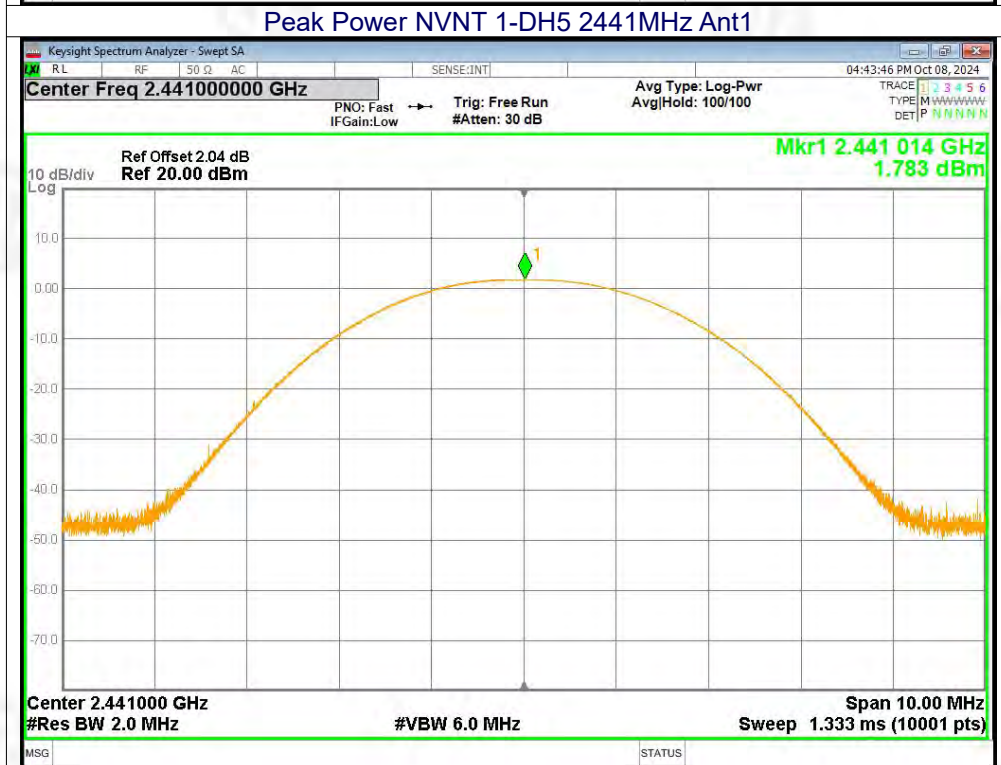
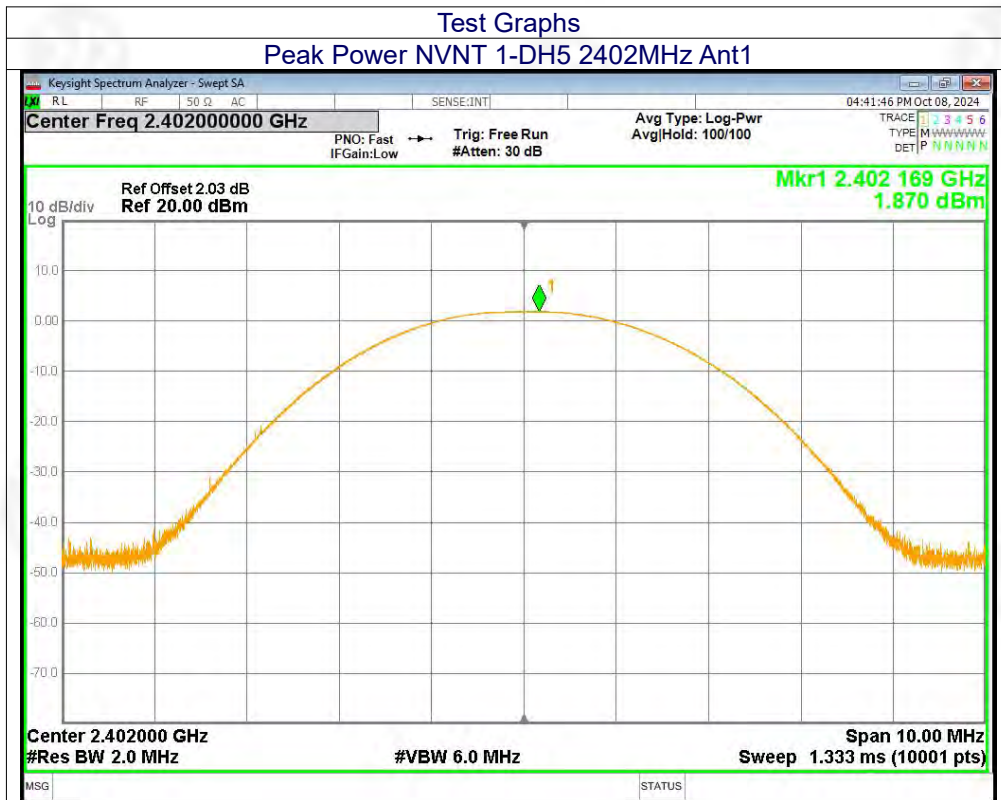


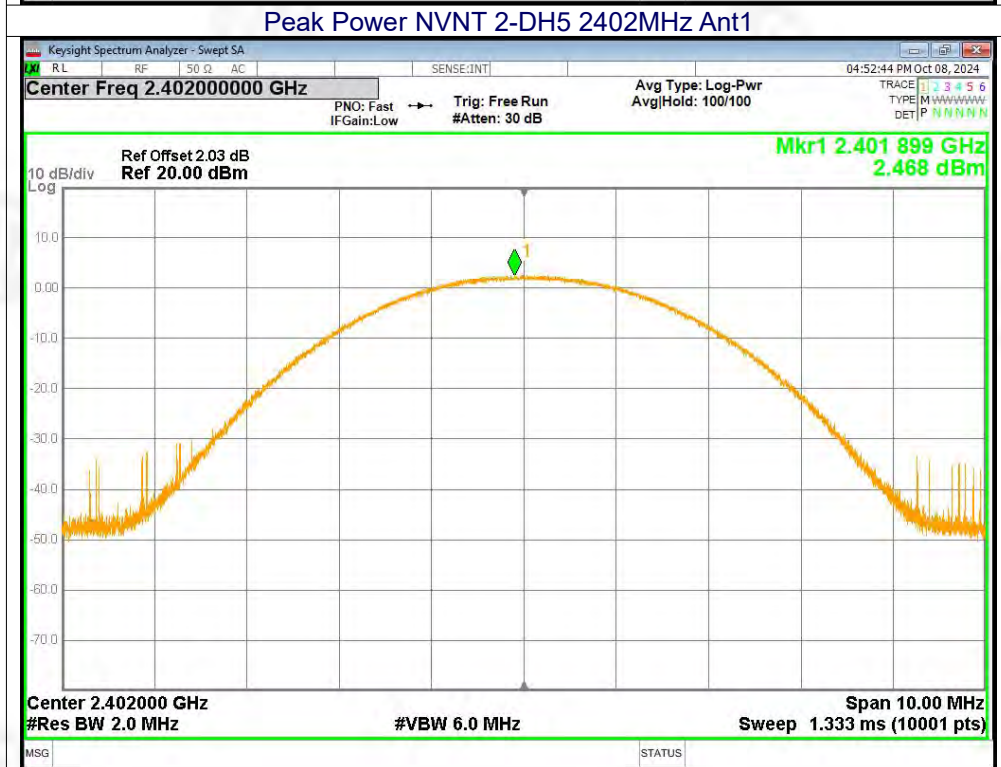
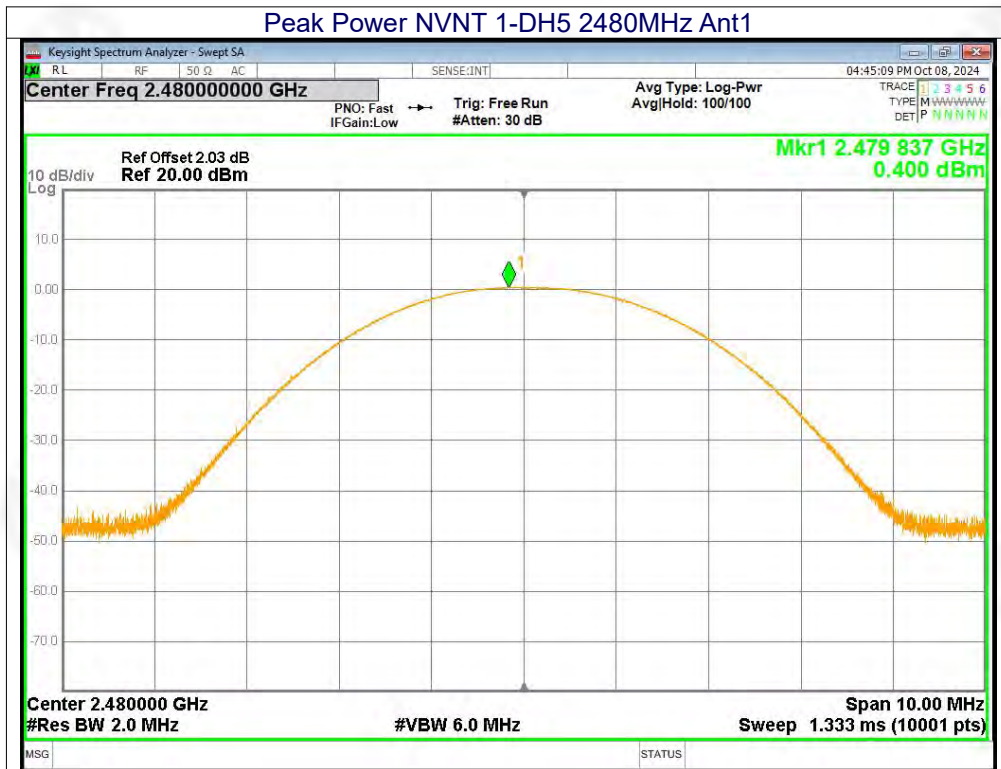


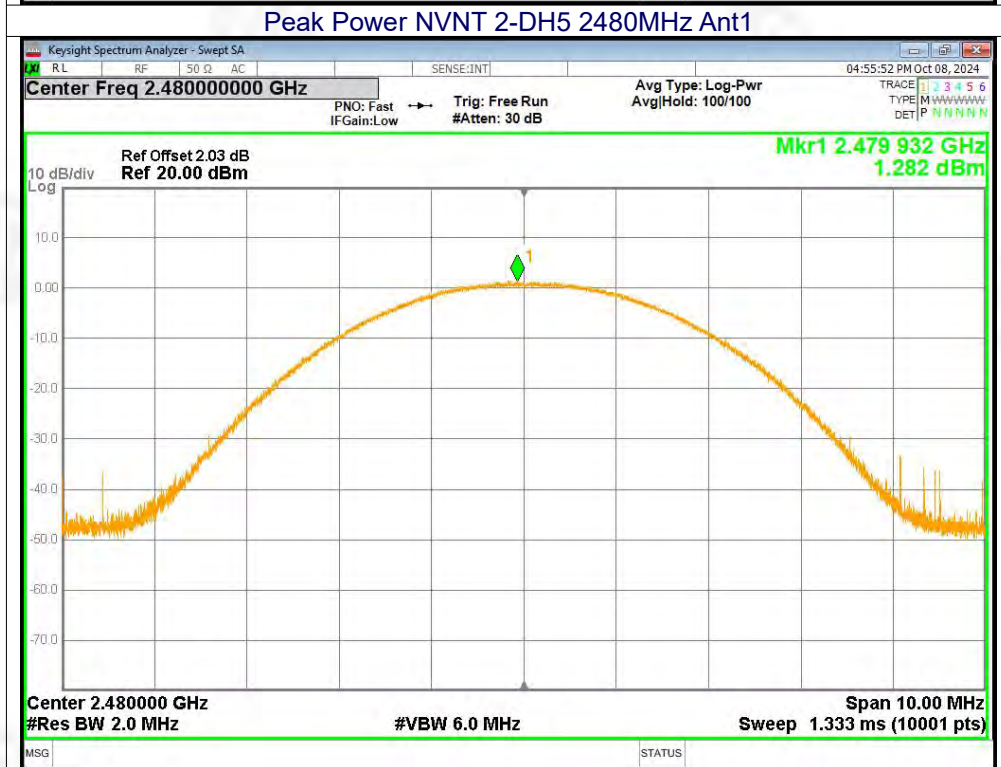
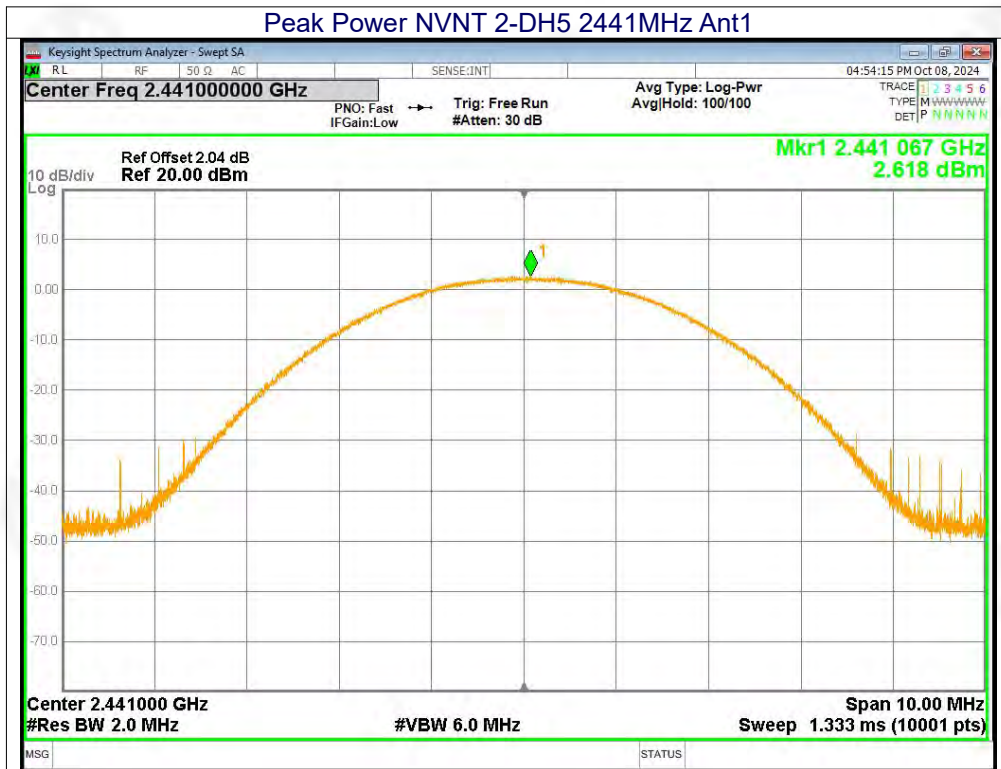


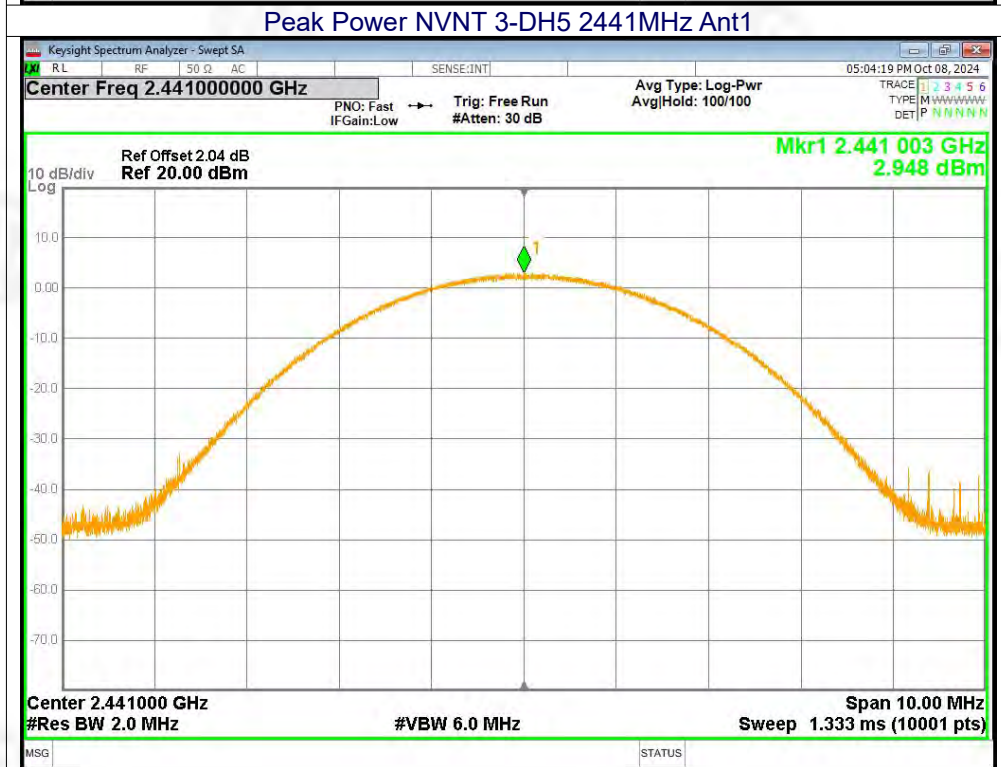
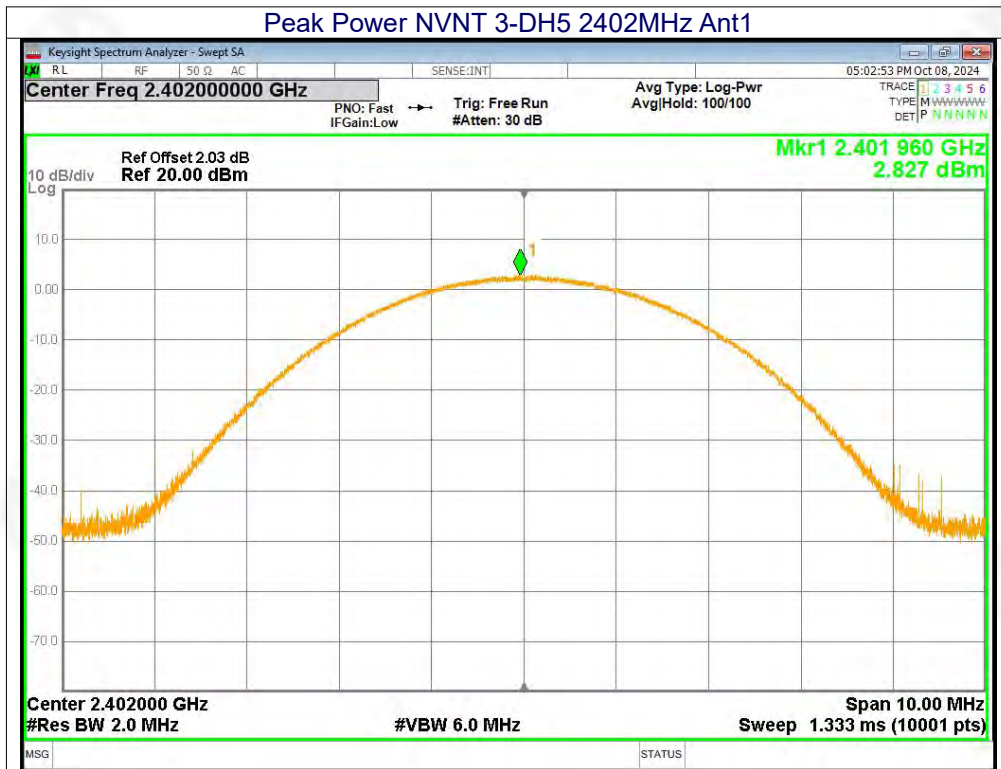
13.2 Maximum Peak Conducted Output Power

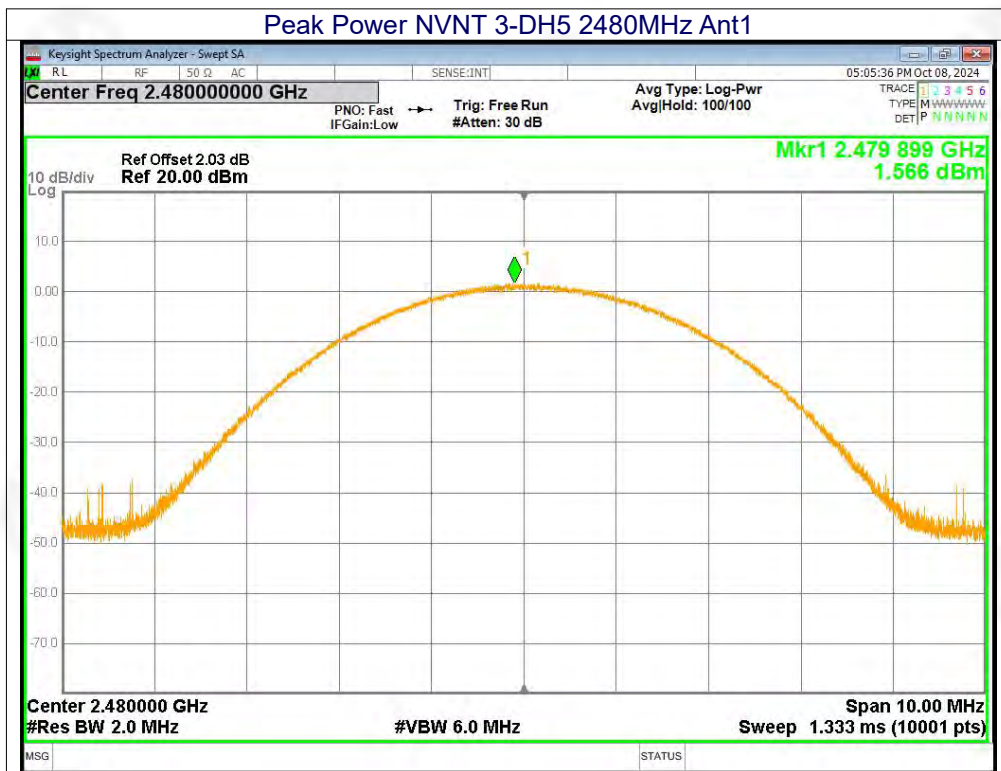
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	1.87	21	Pass
1-DH5	2441	1.78	21	Pass
1-DH5	2480	0.4	21	Pass
2-DH5	2402	2.47	21	Pass
2-DH5	2441	2.62	21	Pass
2-DH5	2480	1.28	21	Pass
3-DH5	2402	2.83	21	Pass
3-DH5	2441	2.95	21	Pass
3-DH5	2480	1.57	21	Pass







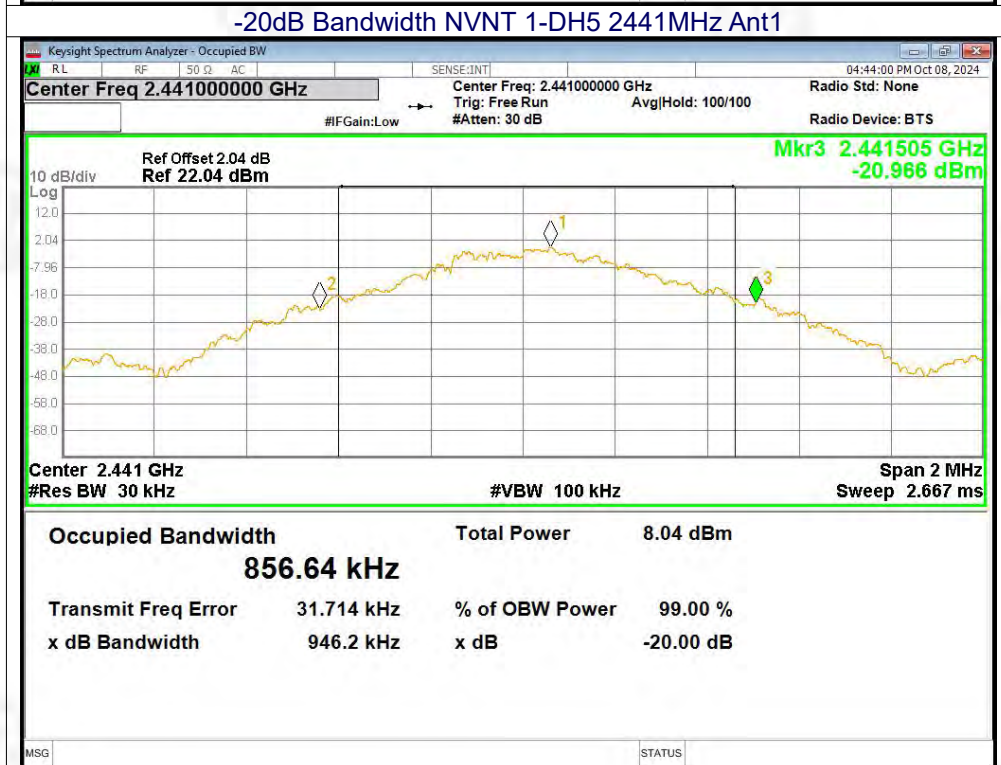
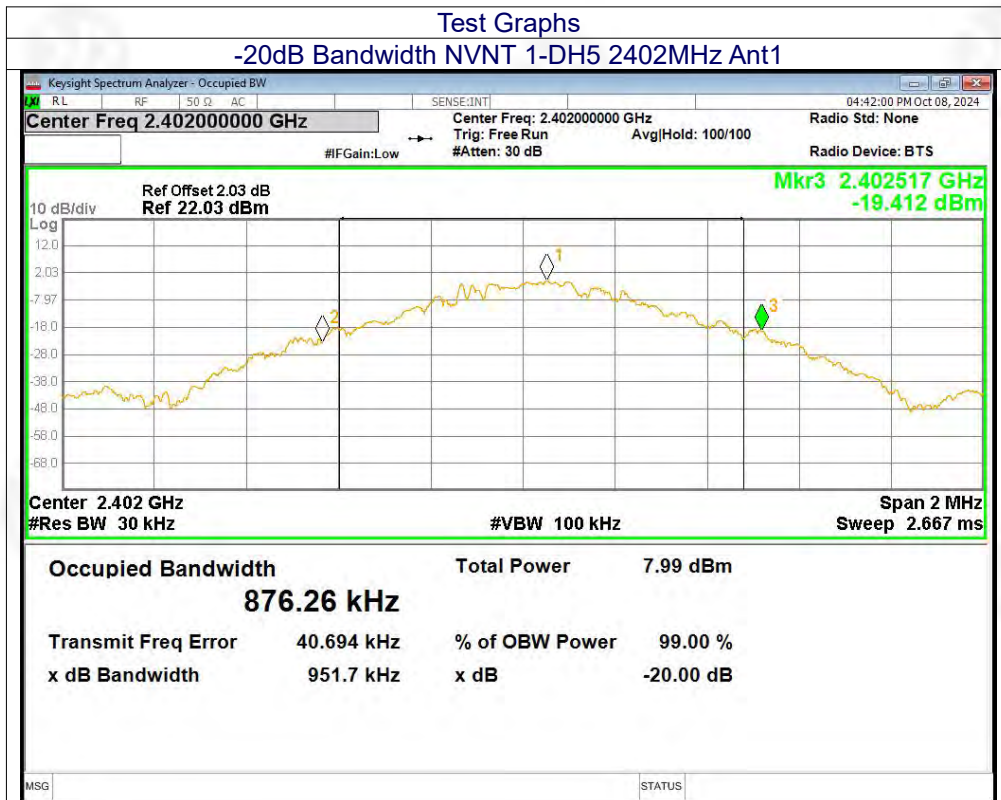


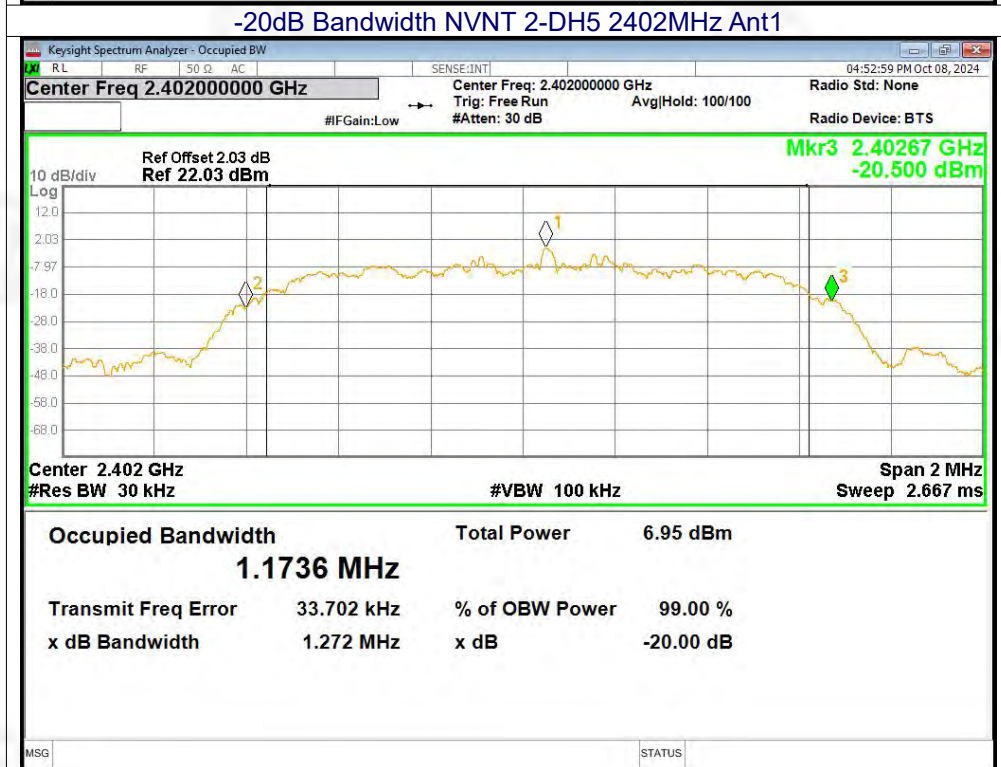
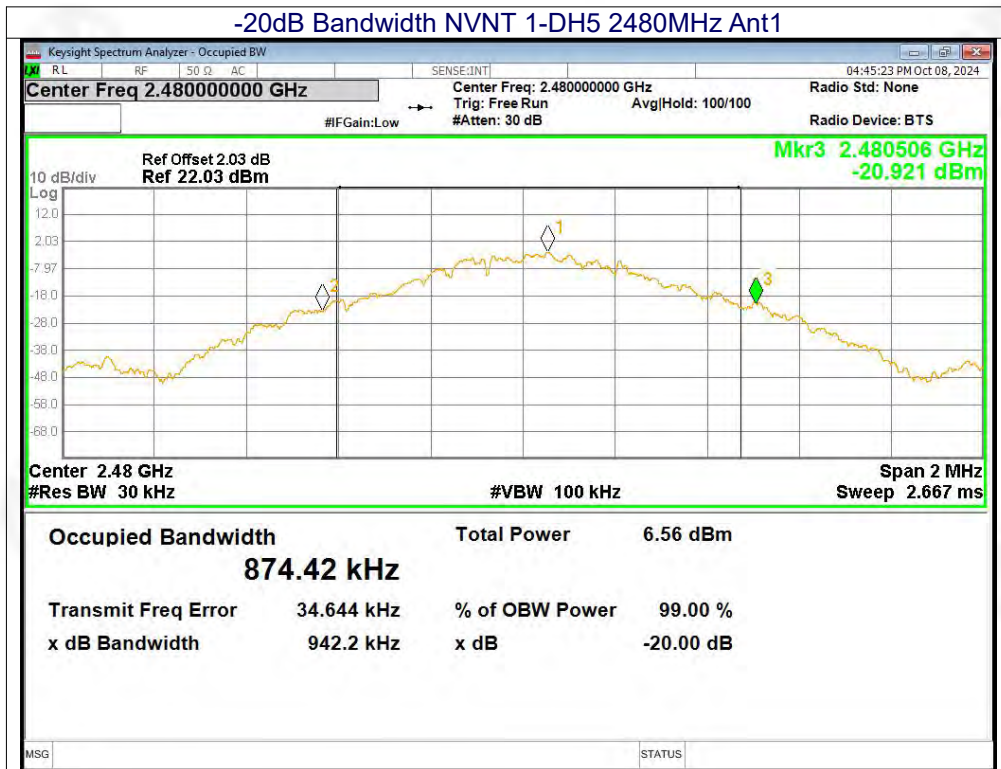


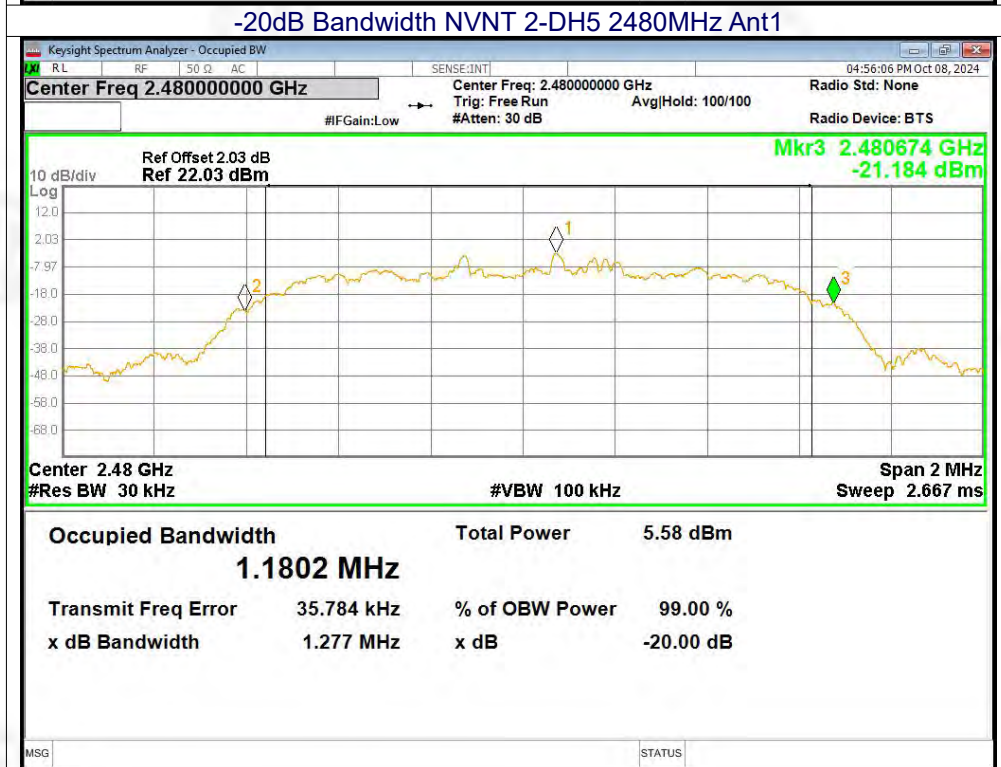
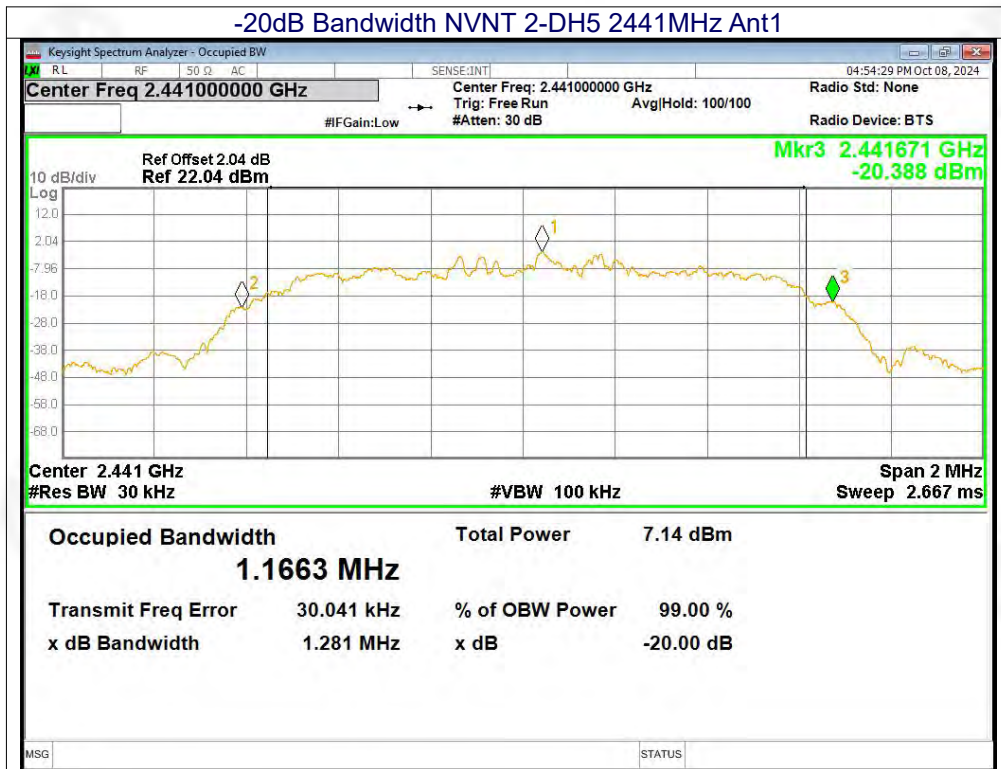


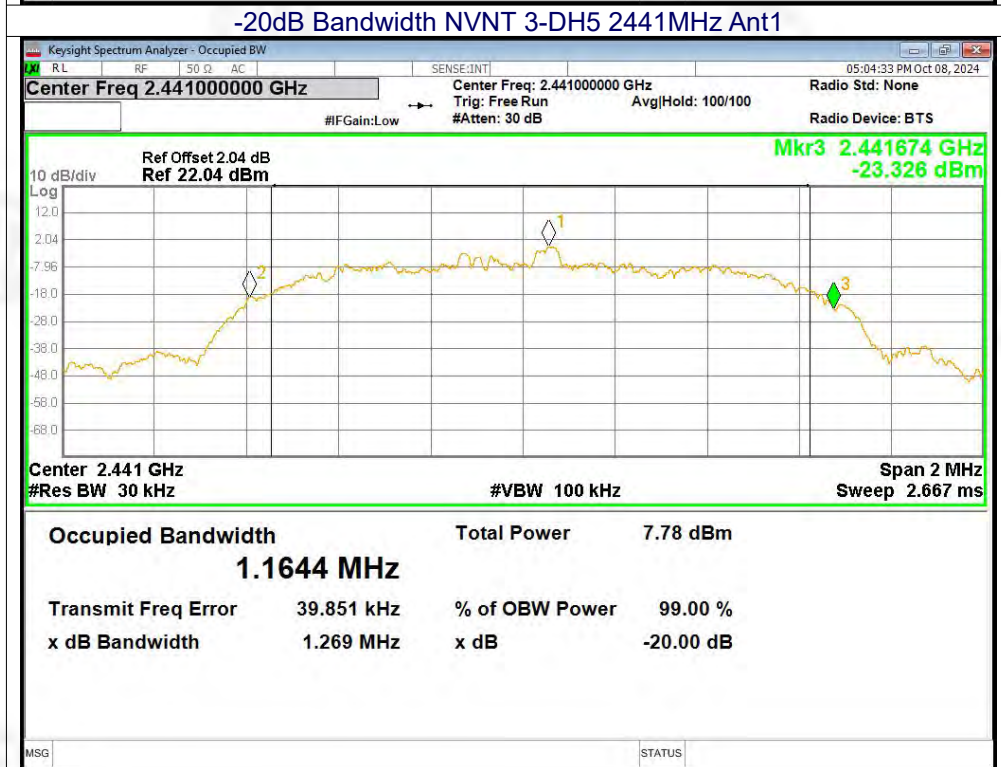
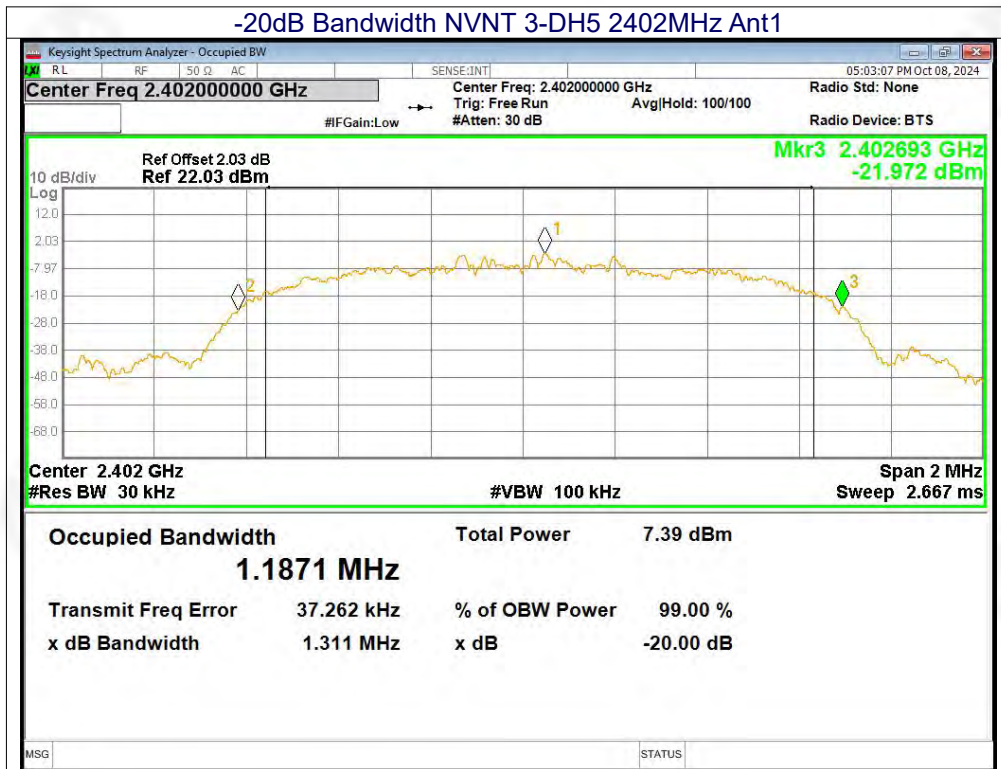
13.3 -20dB Bandwidth

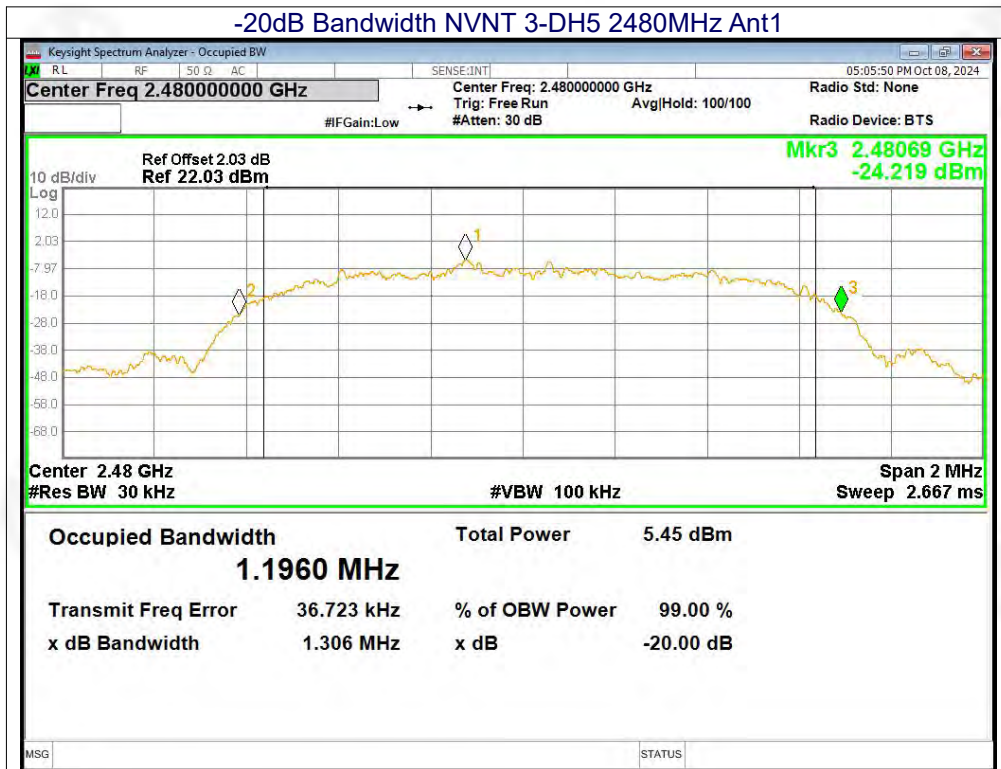
Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	0.952	Pass
1-DH5	2441	0.946	Pass
1-DH5	2480	0.942	Pass
2-DH5	2402	1.272	Pass
2-DH5	2441	1.281	Pass
2-DH5	2480	1.277	Pass
3-DH5	2402	1.311	Pass
3-DH5	2441	1.269	Pass
3-DH5	2480	1.306	Pass







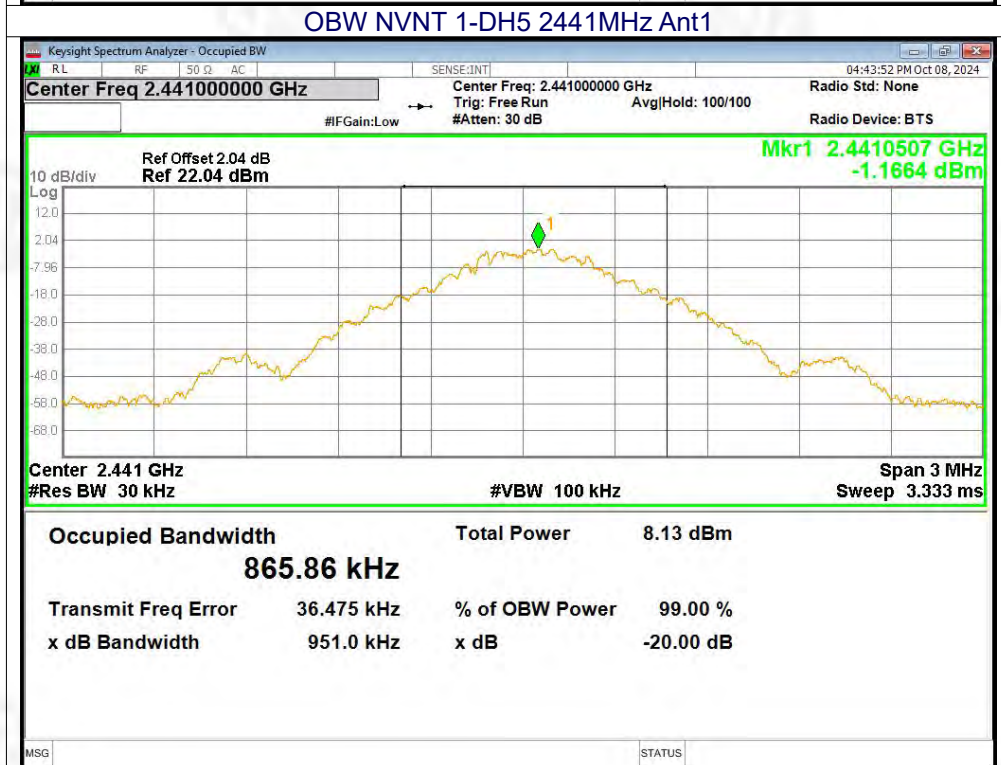
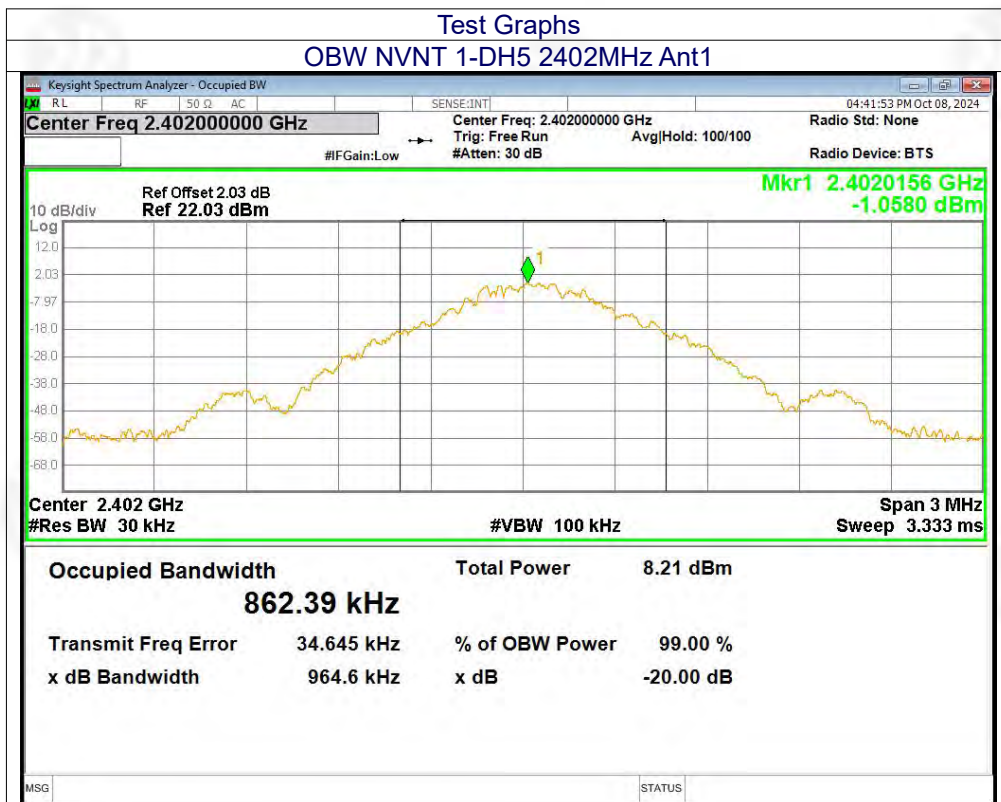


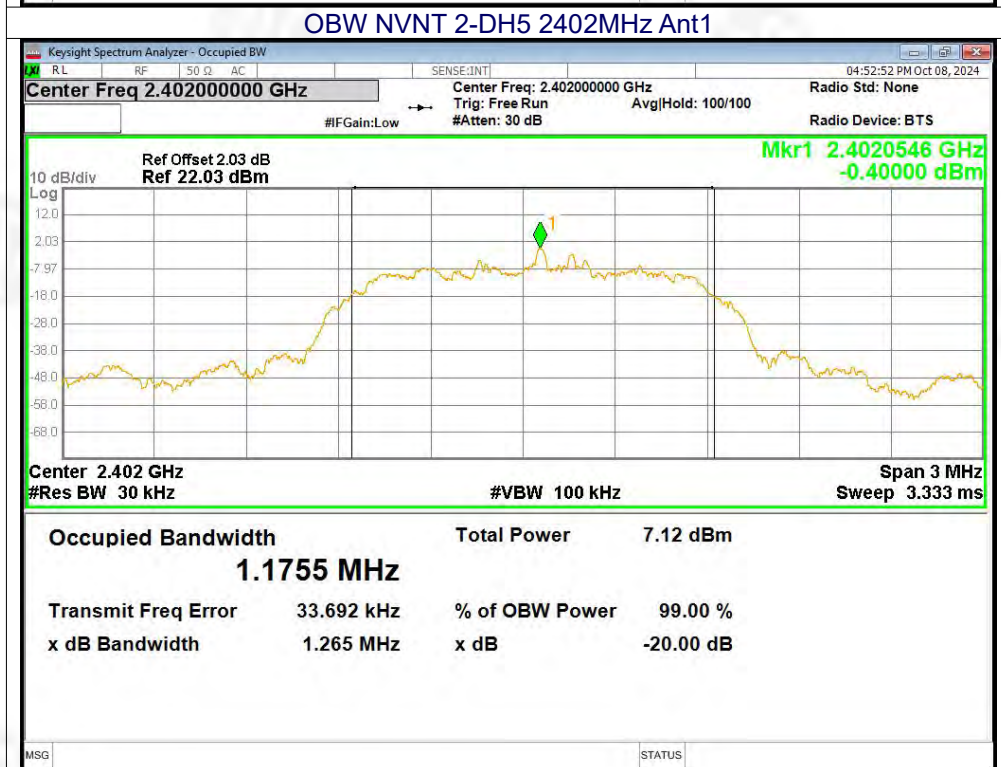
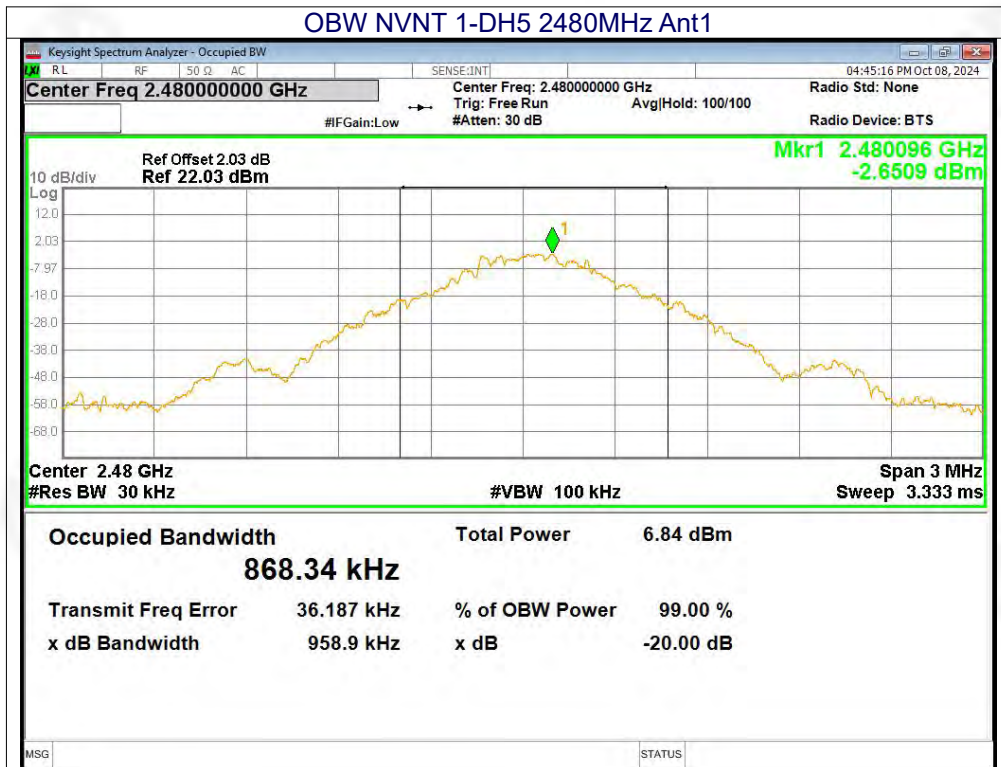


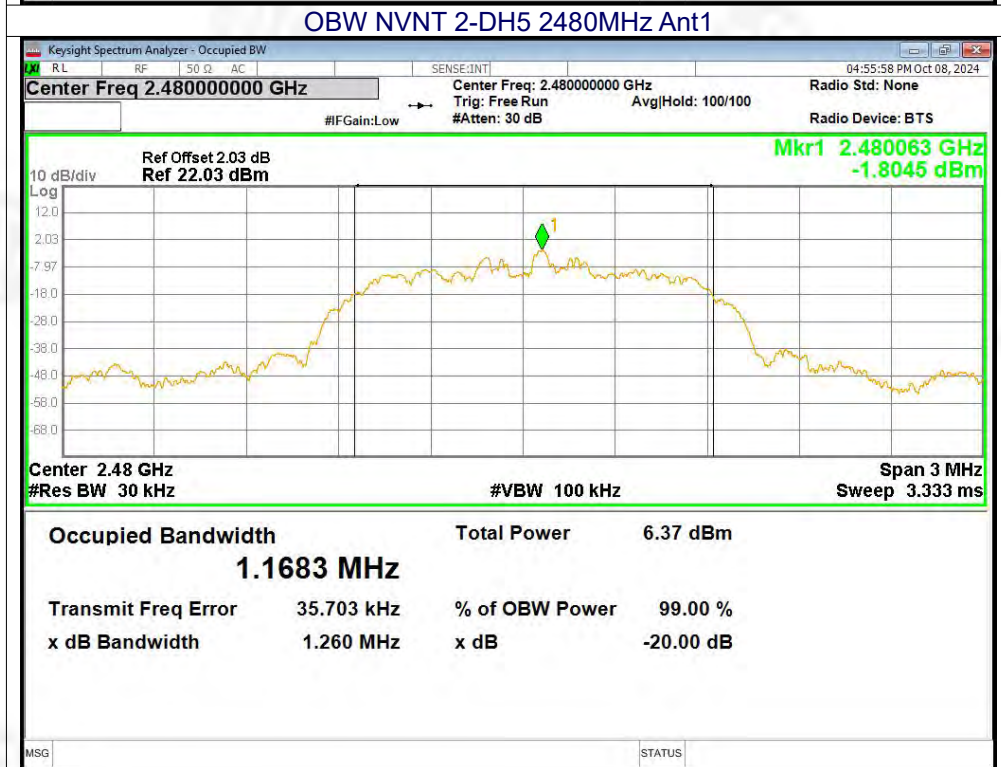
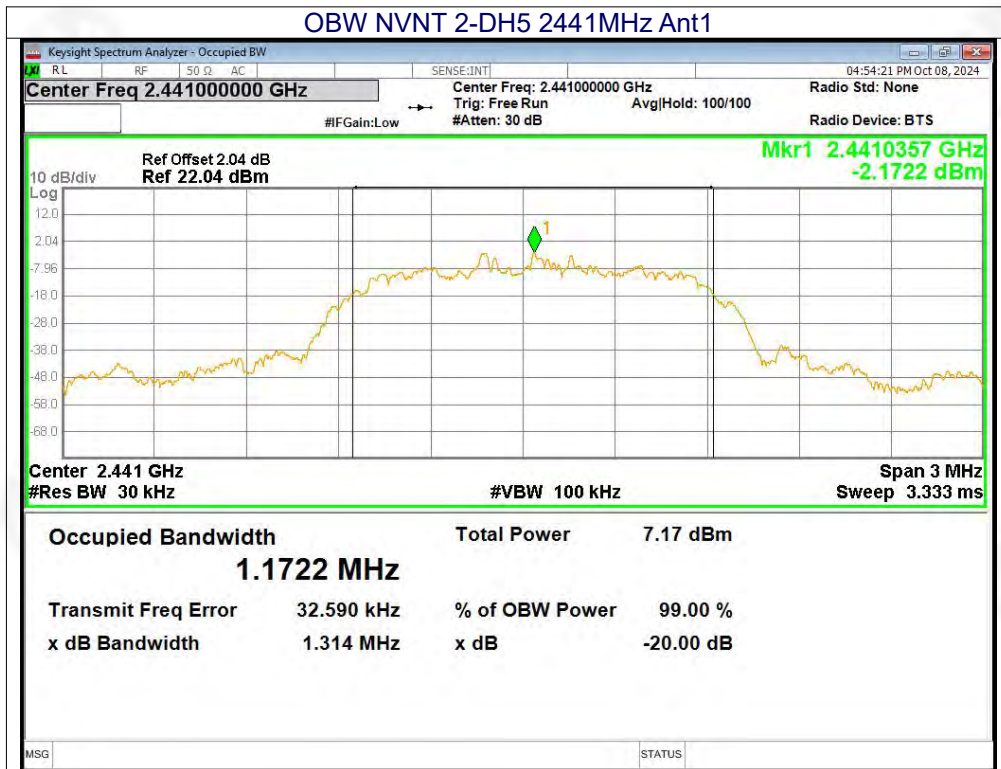


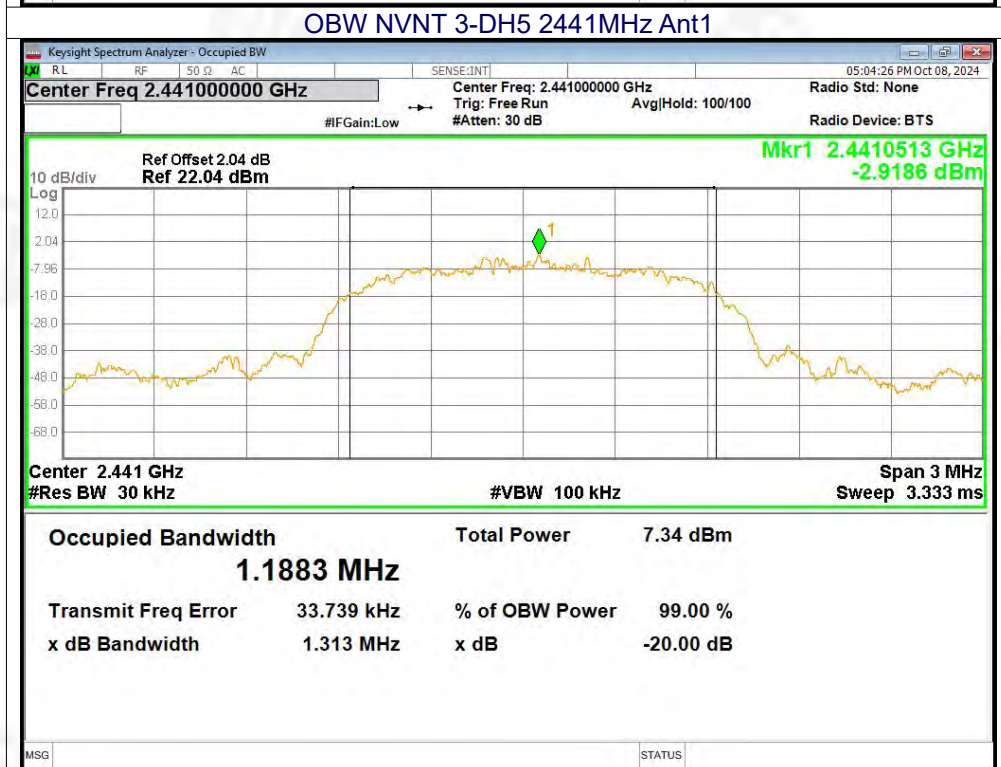
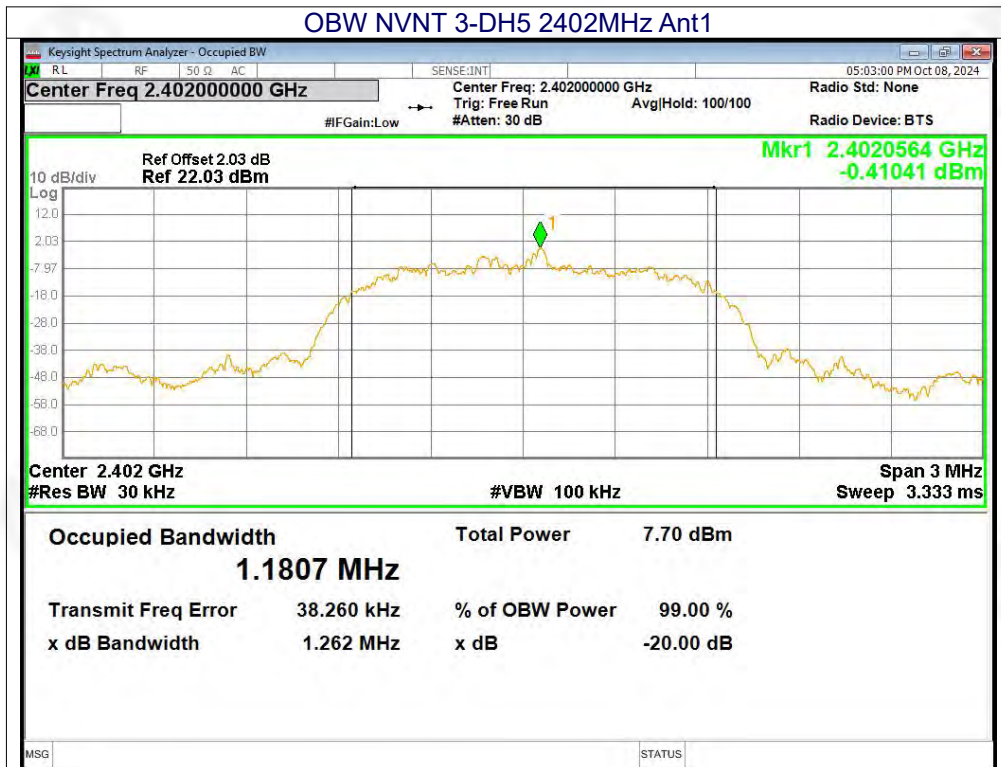
13.3 Occupied Channel Bandwidth

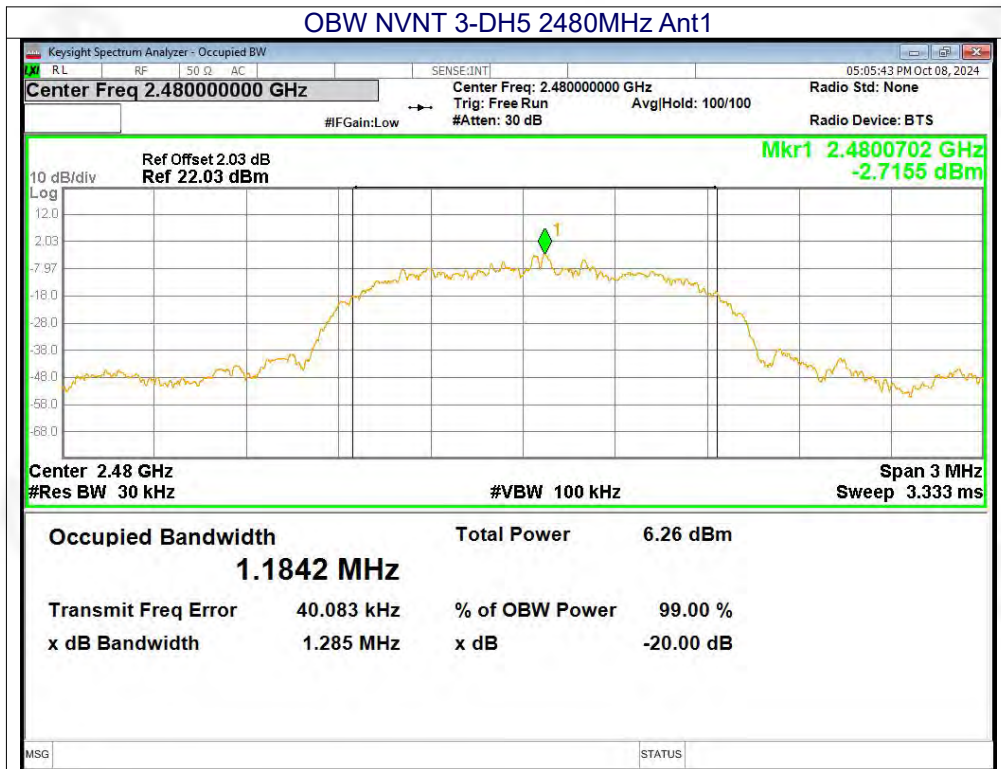
Mode	Frequency (MHz)	99% OBW (MHz)
1-DH5	2402	0.862
1-DH5	2441	0.866
1-DH5	2480	0.868
2-DH5	2402	1.175
2-DH5	2441	1.172
2-DH5	2480	1.168
3-DH5	2402	1.181
3-DH5	2441	1.188
3-DH5	2480	1.184







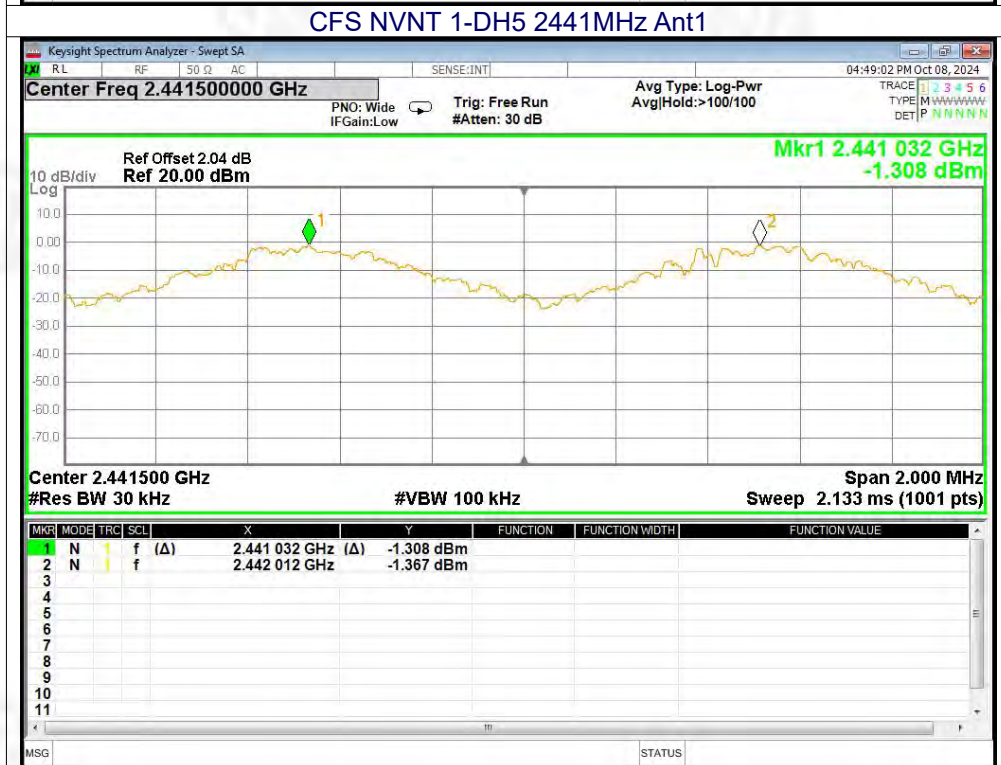
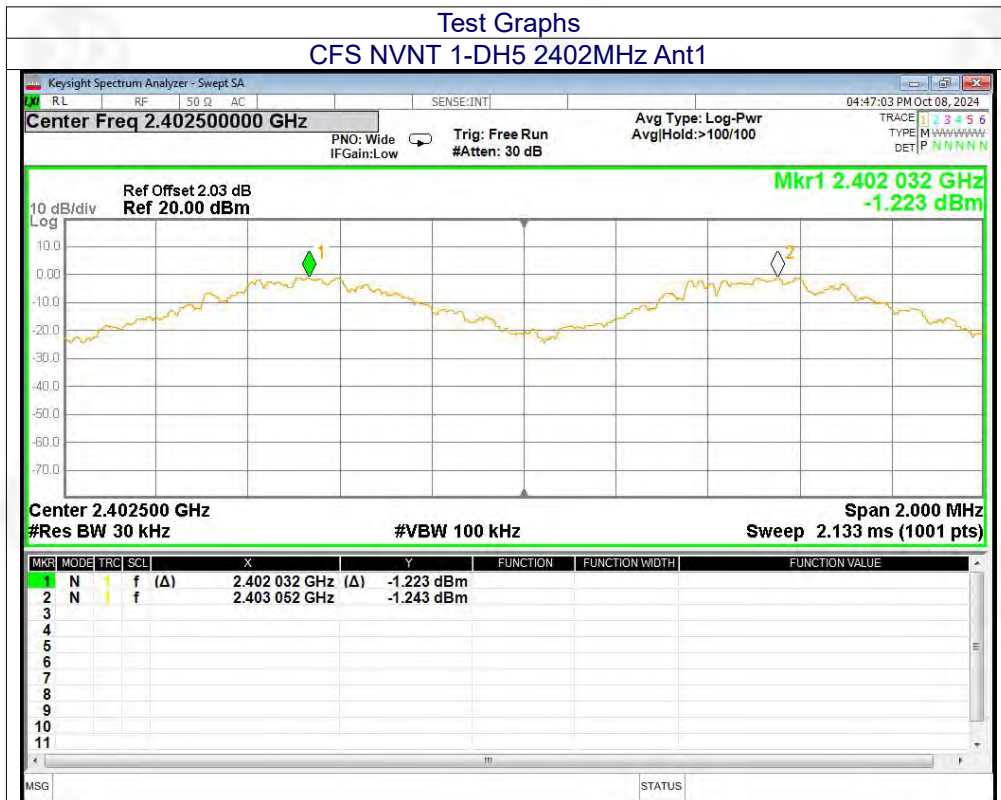


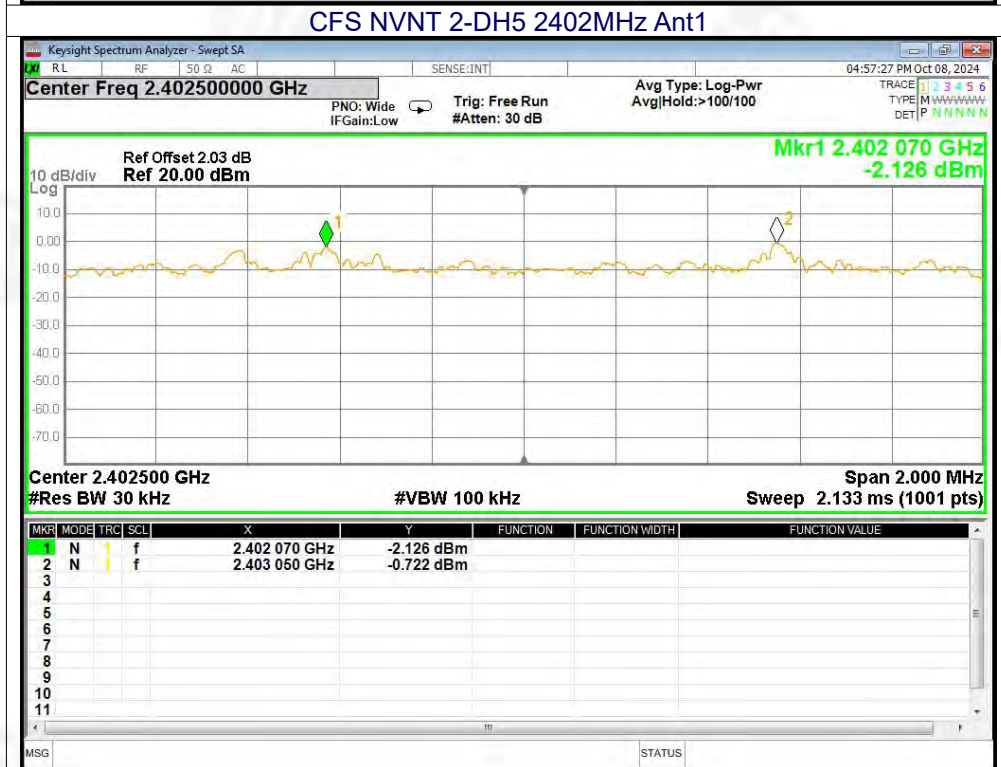
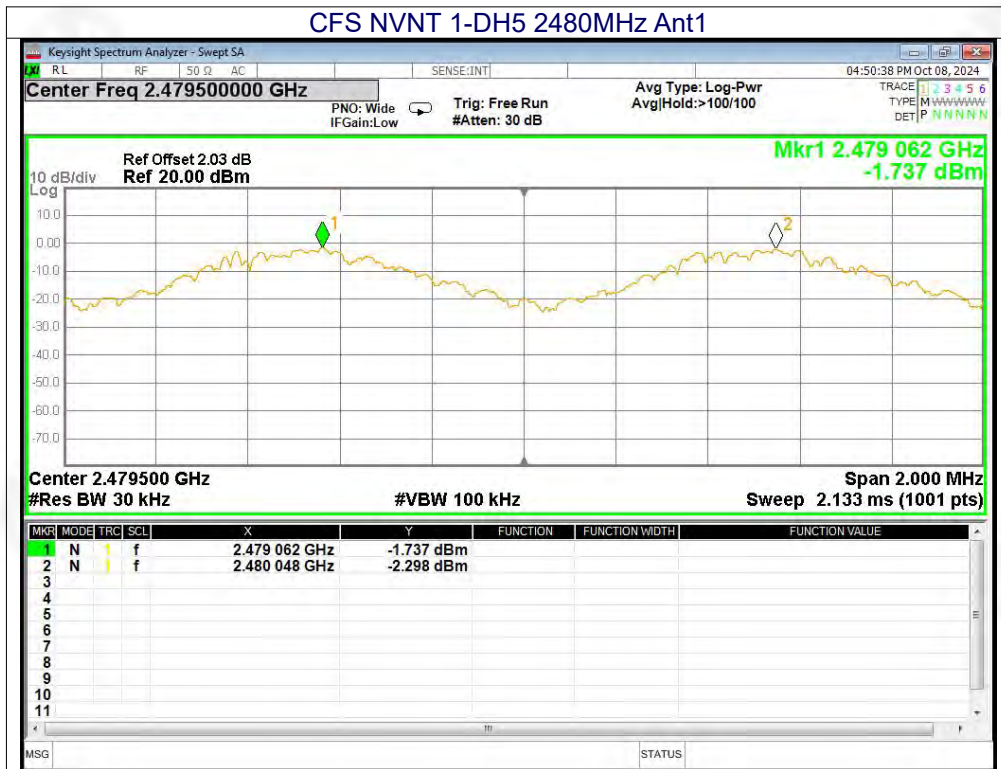


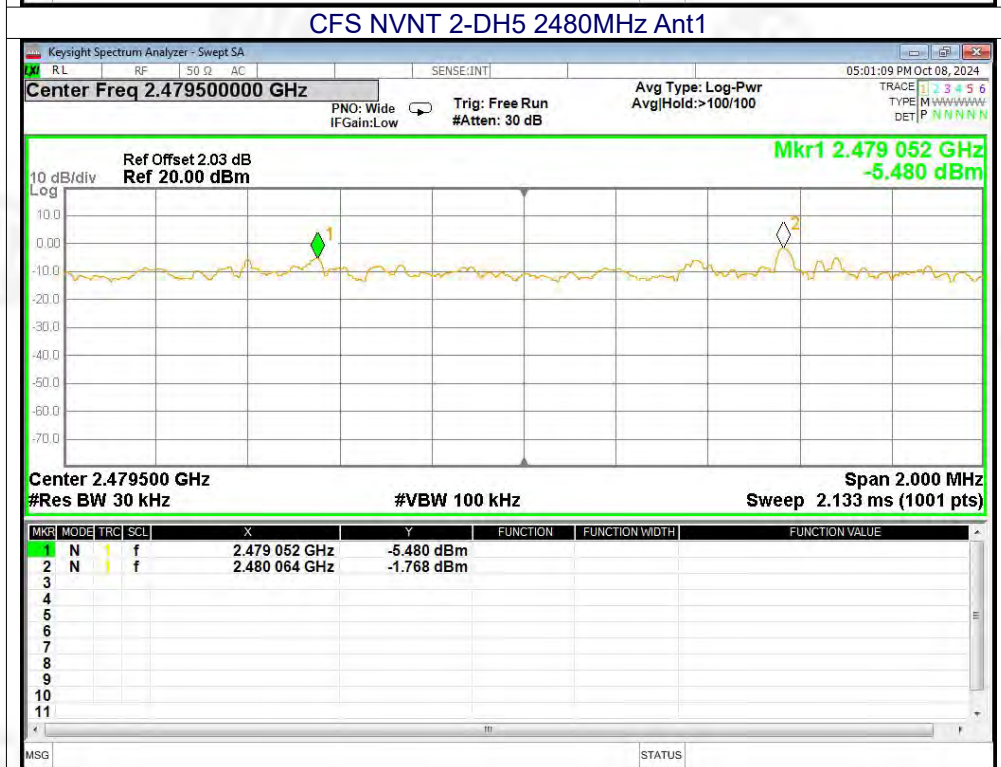
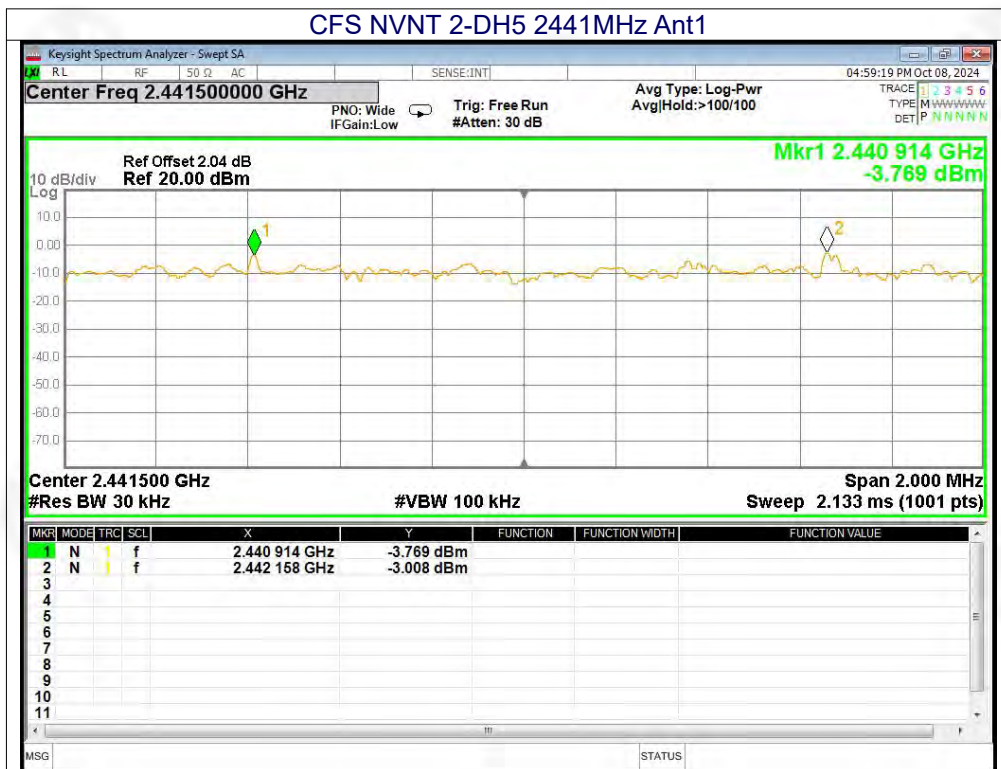


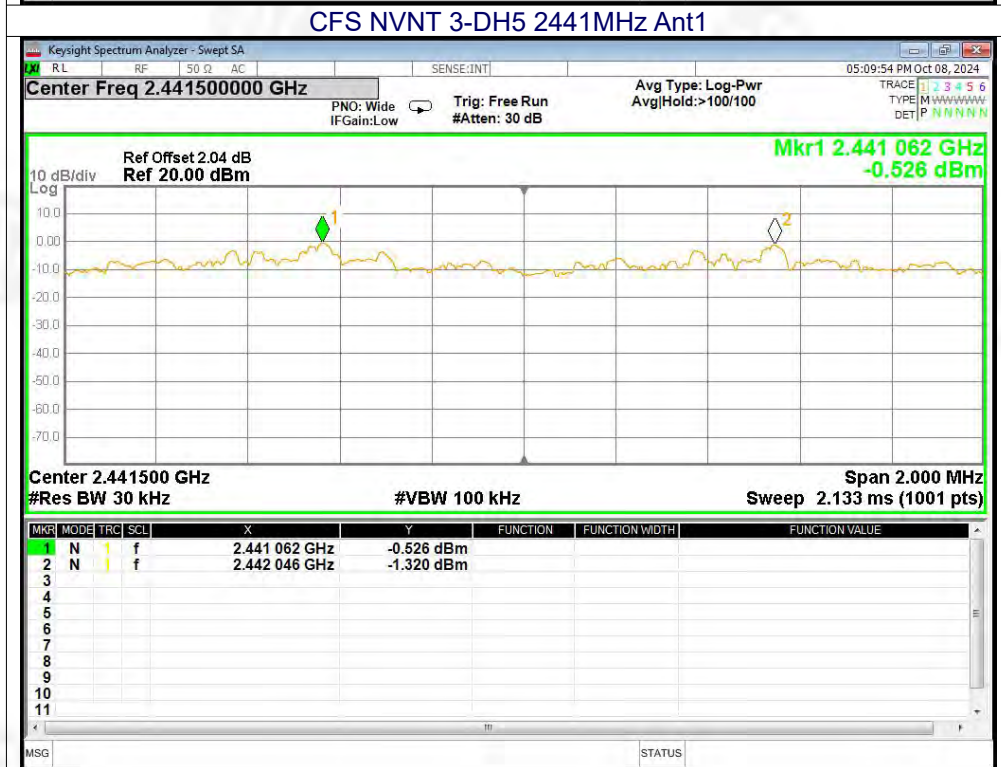
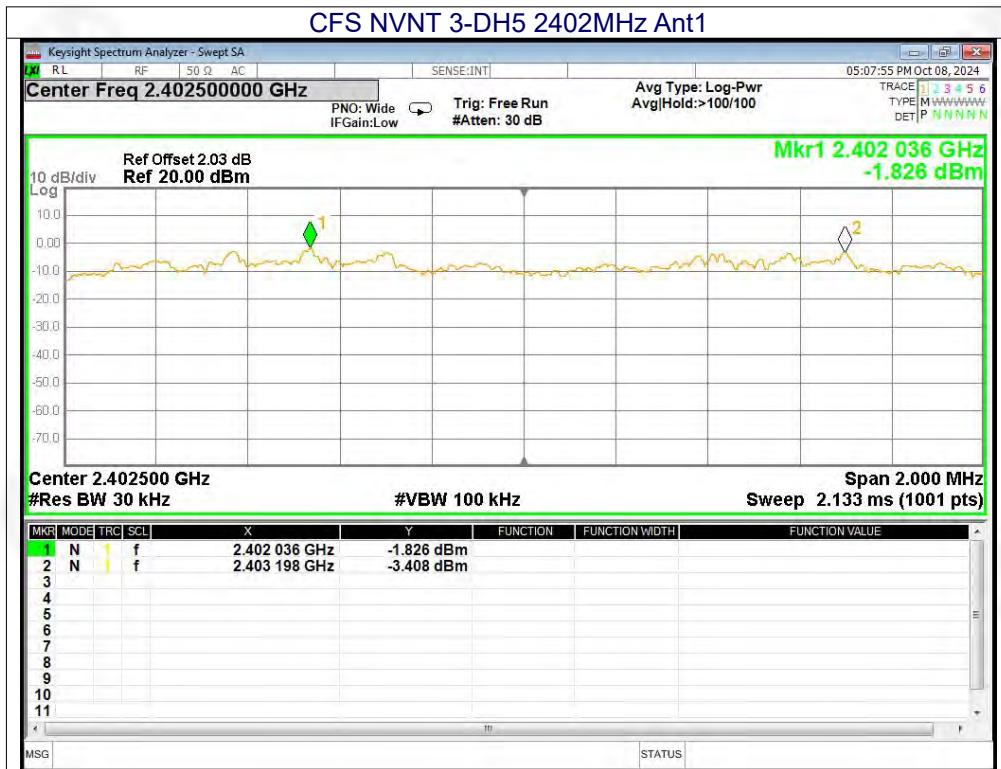
13.4 Carrier Frequencies Separation

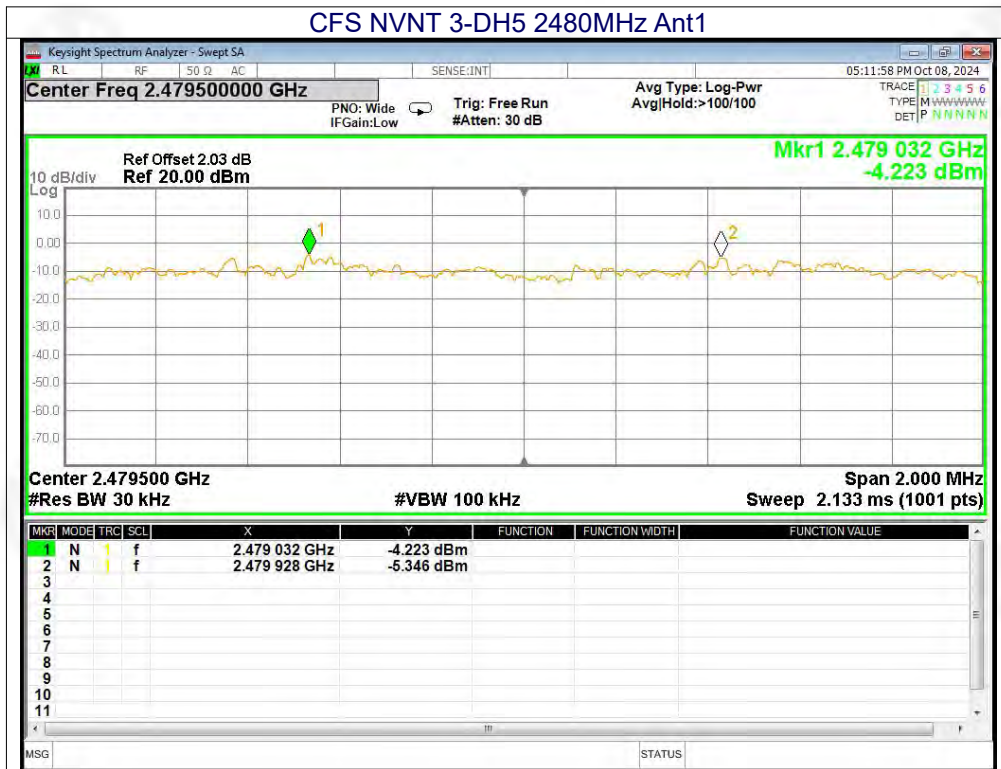
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2402.032	2403.052	1.02	0.635	Pass
1-DH5	2441.032	2442.012	0.98	0.631	Pass
1-DH5	2479.062	2480.048	0.986	0.628	Pass
2-DH5	2402.07	2403.05	0.98	0.848	Pass
2-DH5	2440.914	2442.158	1.244	0.854	Pass
2-DH5	2479.052	2480.064	1.012	0.851	Pass
3-DH5	2402.036	2403.198	1.162	0.874	Pass
3-DH5	2441.062	2442.046	0.984	0.846	Pass
3-DH5	2479.032	2479.928	0.896	0.871	Pass













13.5 Number of Hopping Channel

Mode	Hopping Number	Limit	Verdict
1-DH5	79	15	Pass
2-DH5	79	15	Pass
3-DH5	79	15	Pass

