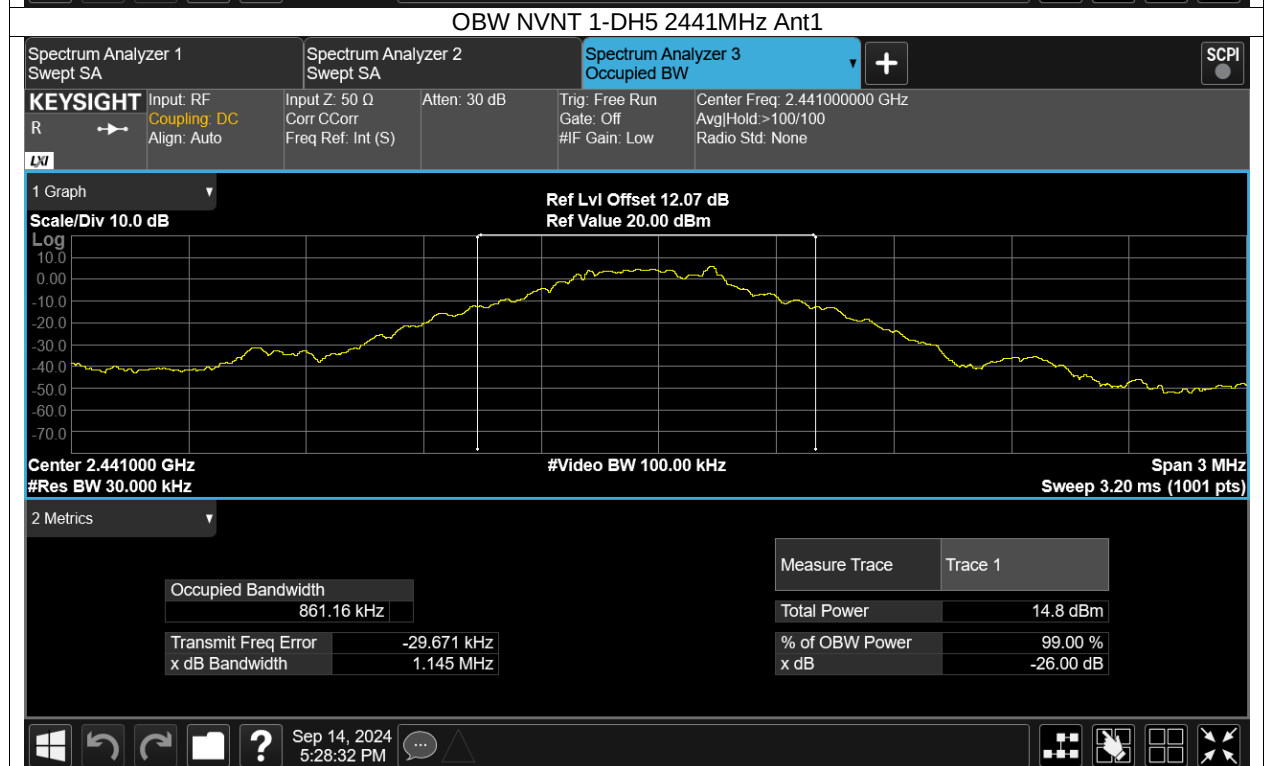
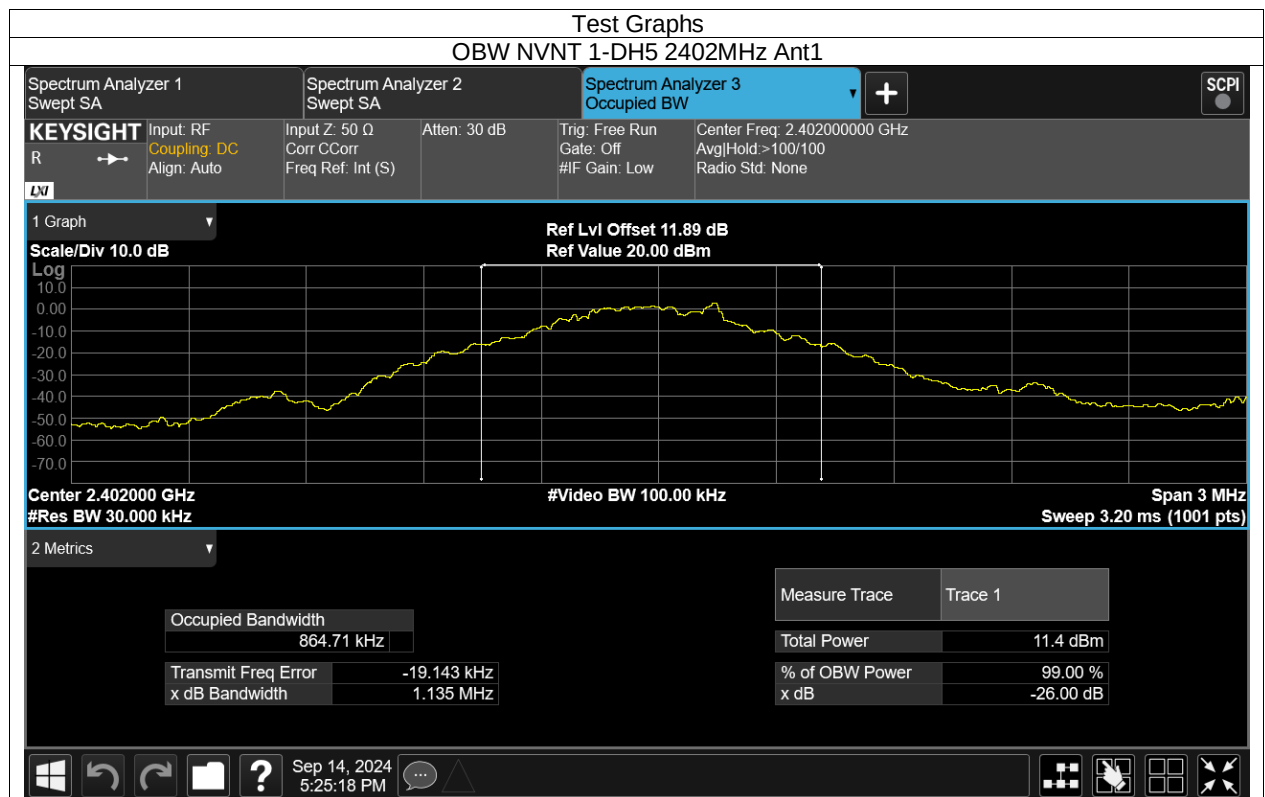


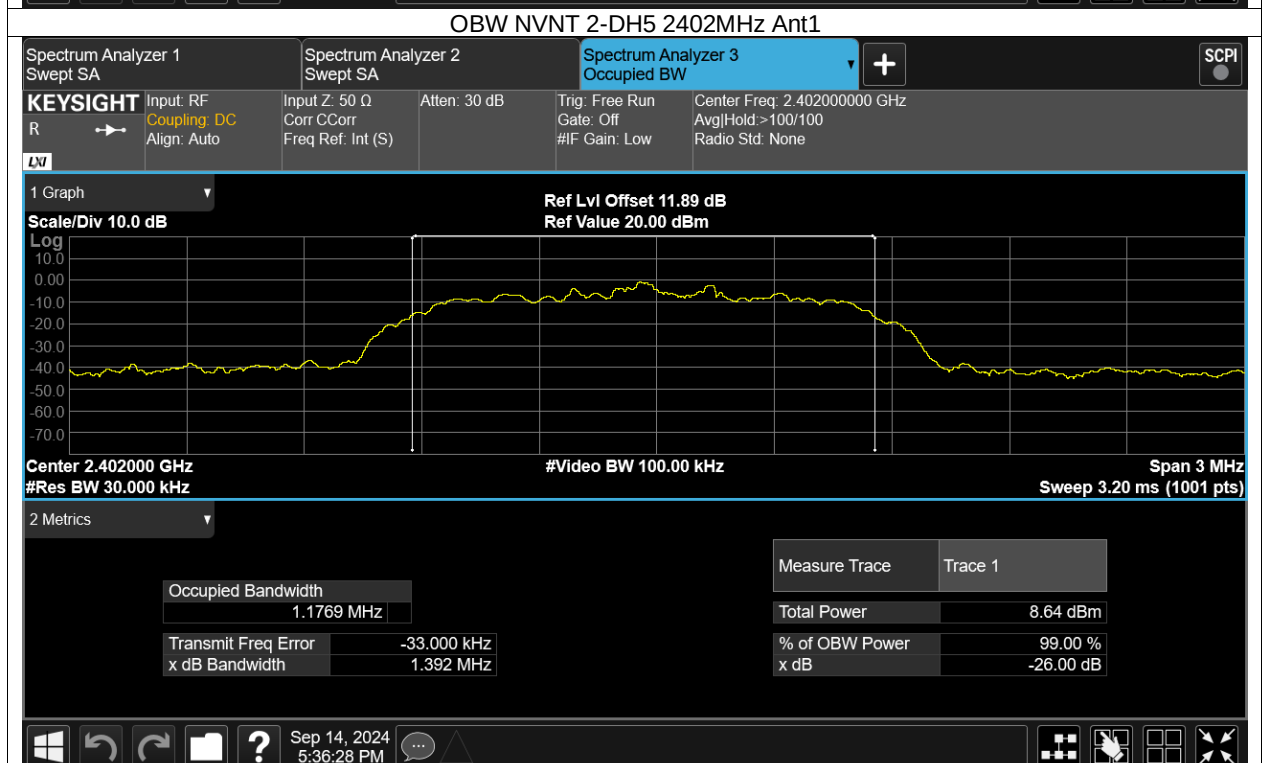
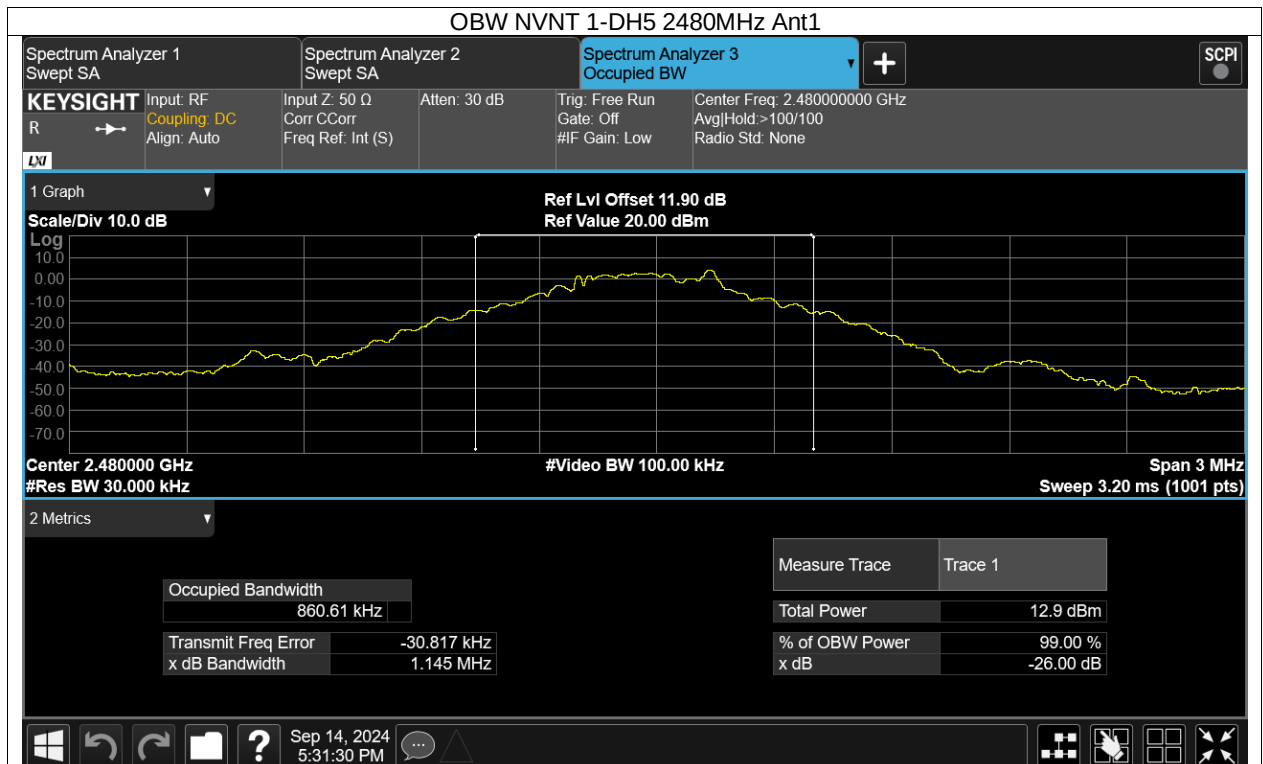
Appendix A: Test Results of Bluetooth BR & EDR (Module A)

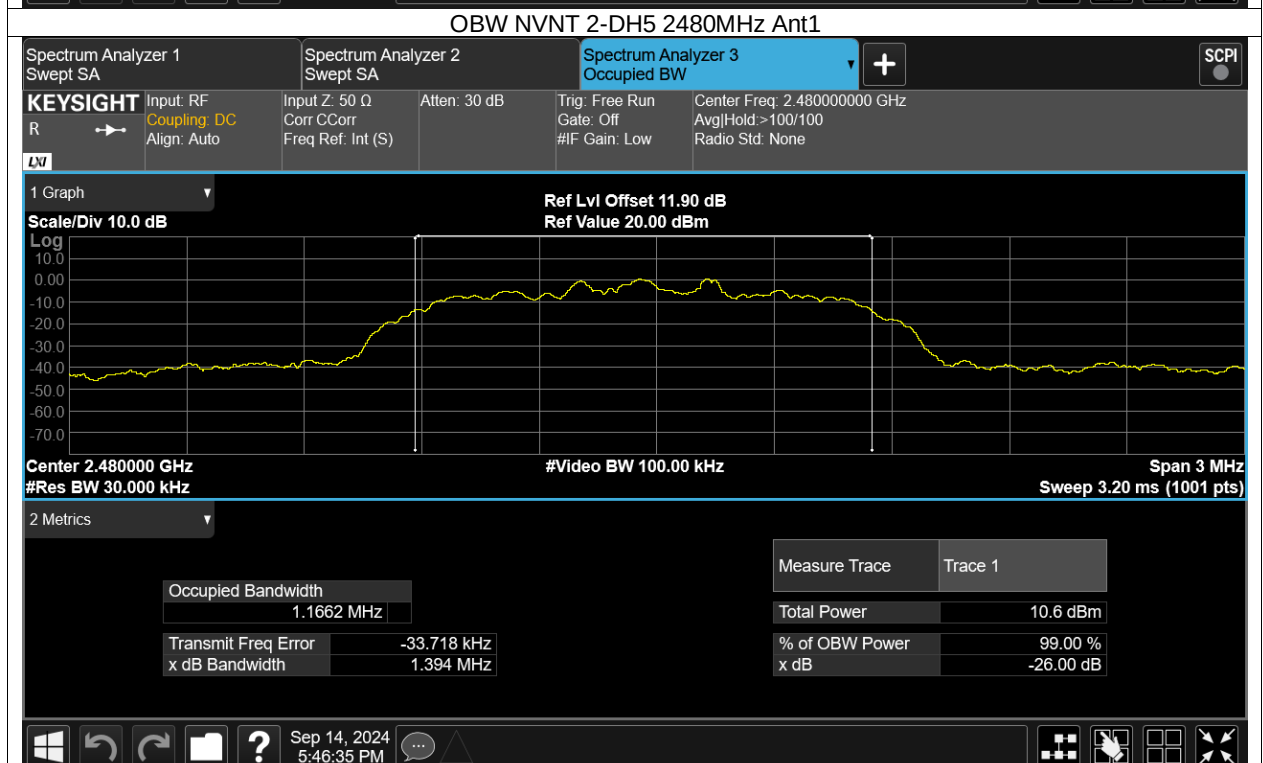
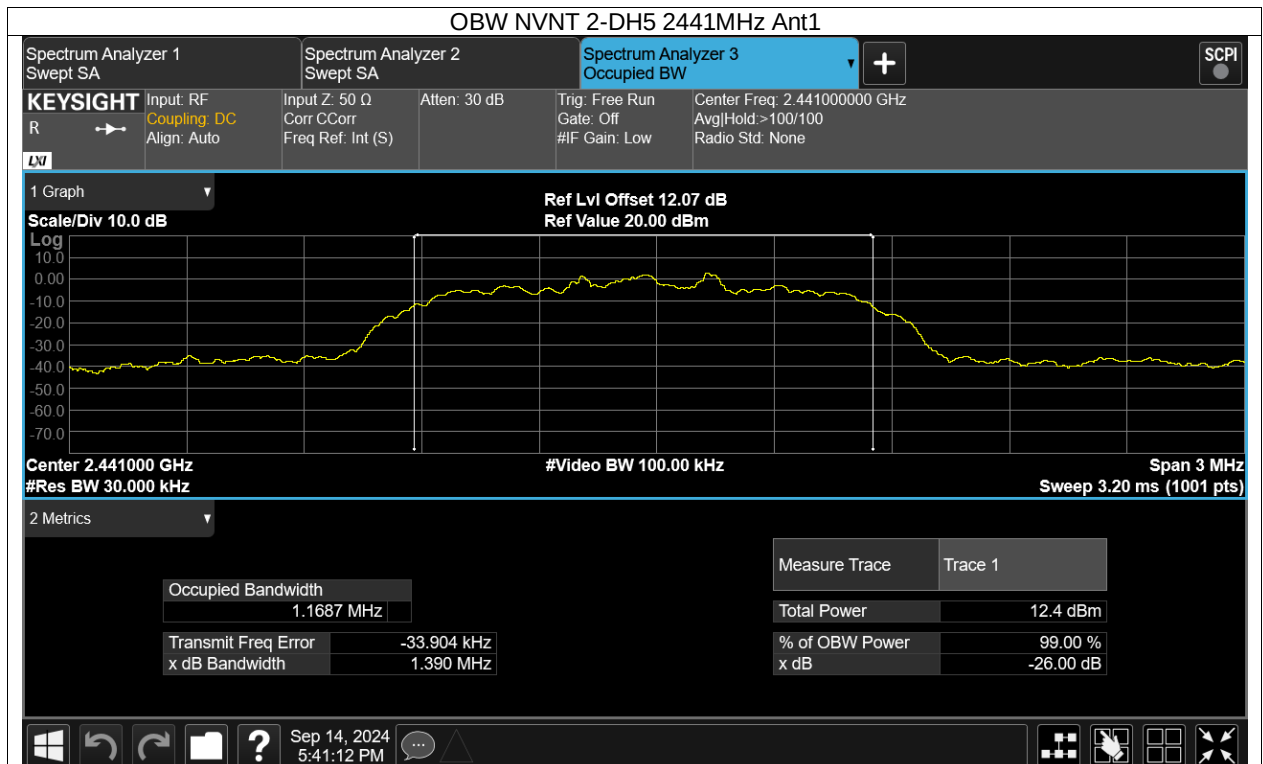
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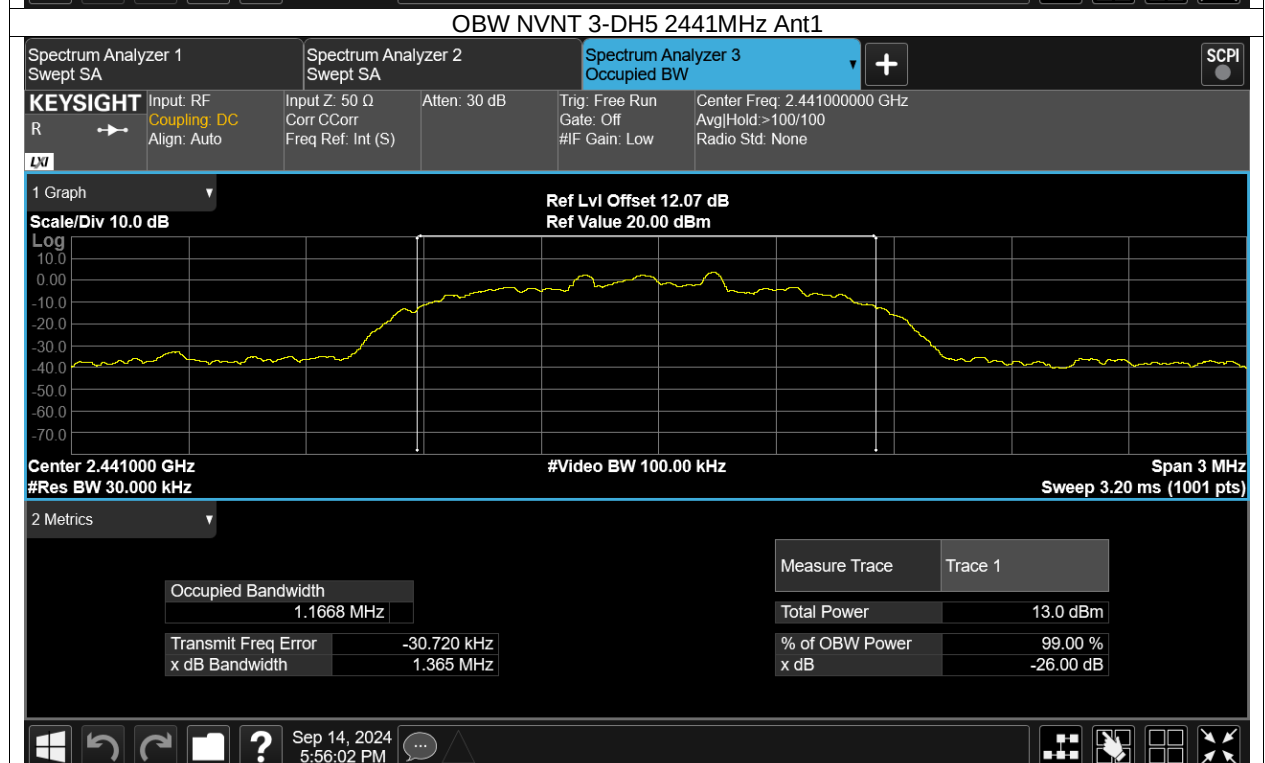
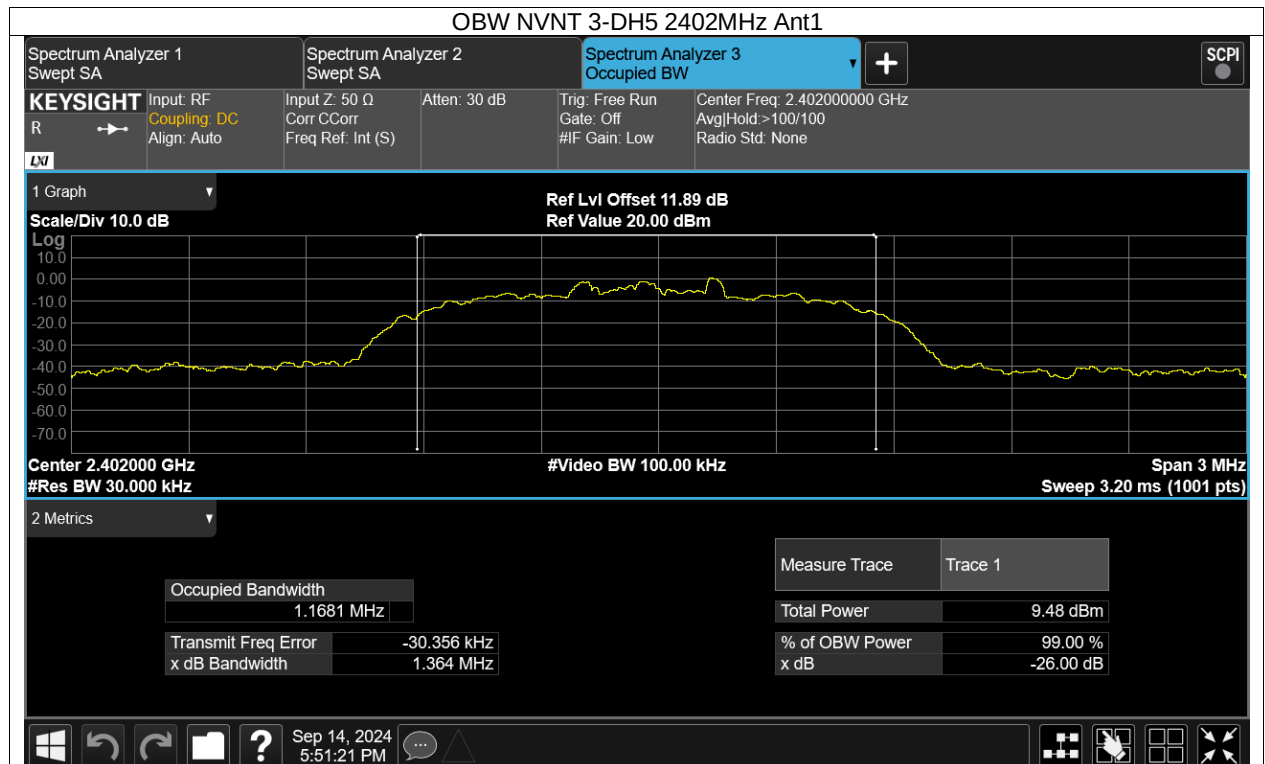
Appendix A.1: Test Results of 99% Bandwidth

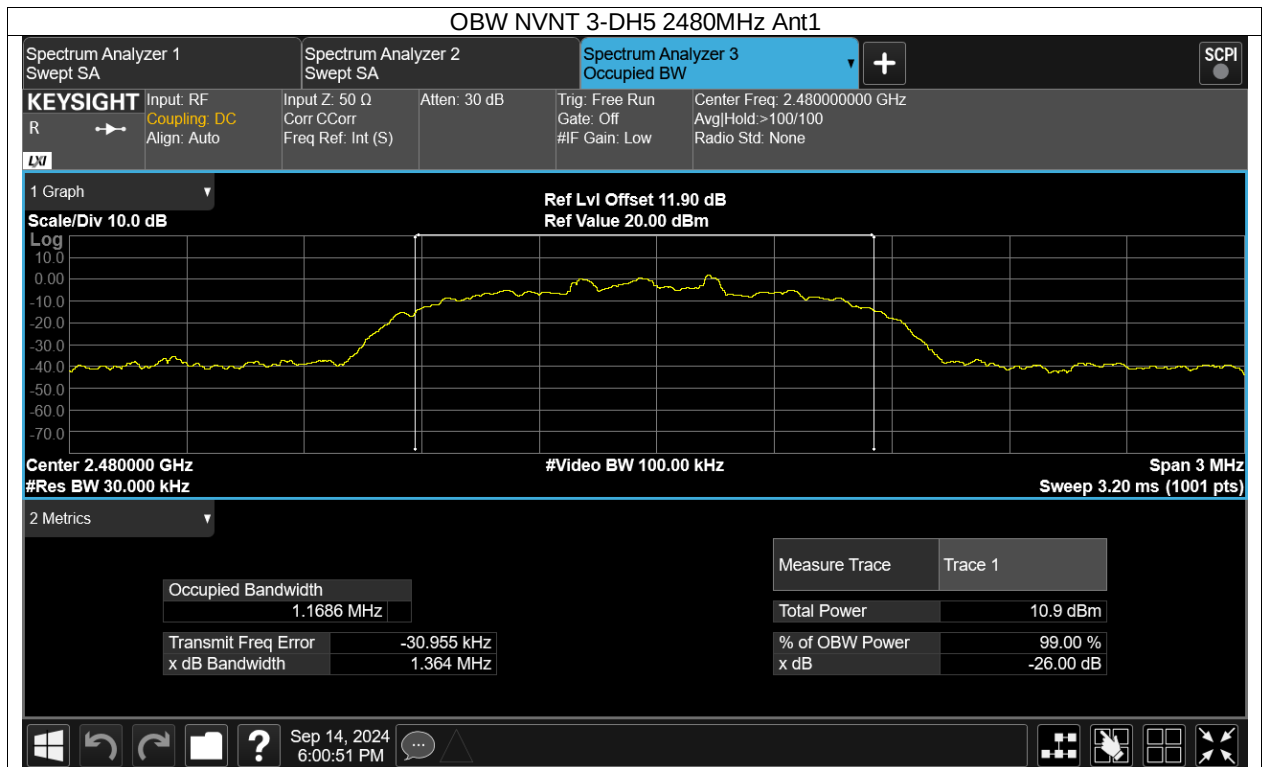
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.86471
NVNT	1-DH5	2441	Ant1	0.86116
NVNT	1-DH5	2480	Ant1	0.86061
NVNT	2-DH5	2402	Ant1	1.1769
NVNT	2-DH5	2441	Ant1	1.1687
NVNT	2-DH5	2480	Ant1	1.1662
NVNT	3-DH5	2402	Ant1	1.1681
NVNT	3-DH5	2441	Ant1	1.1668
NVNT	3-DH5	2480	Ant1	1.1686







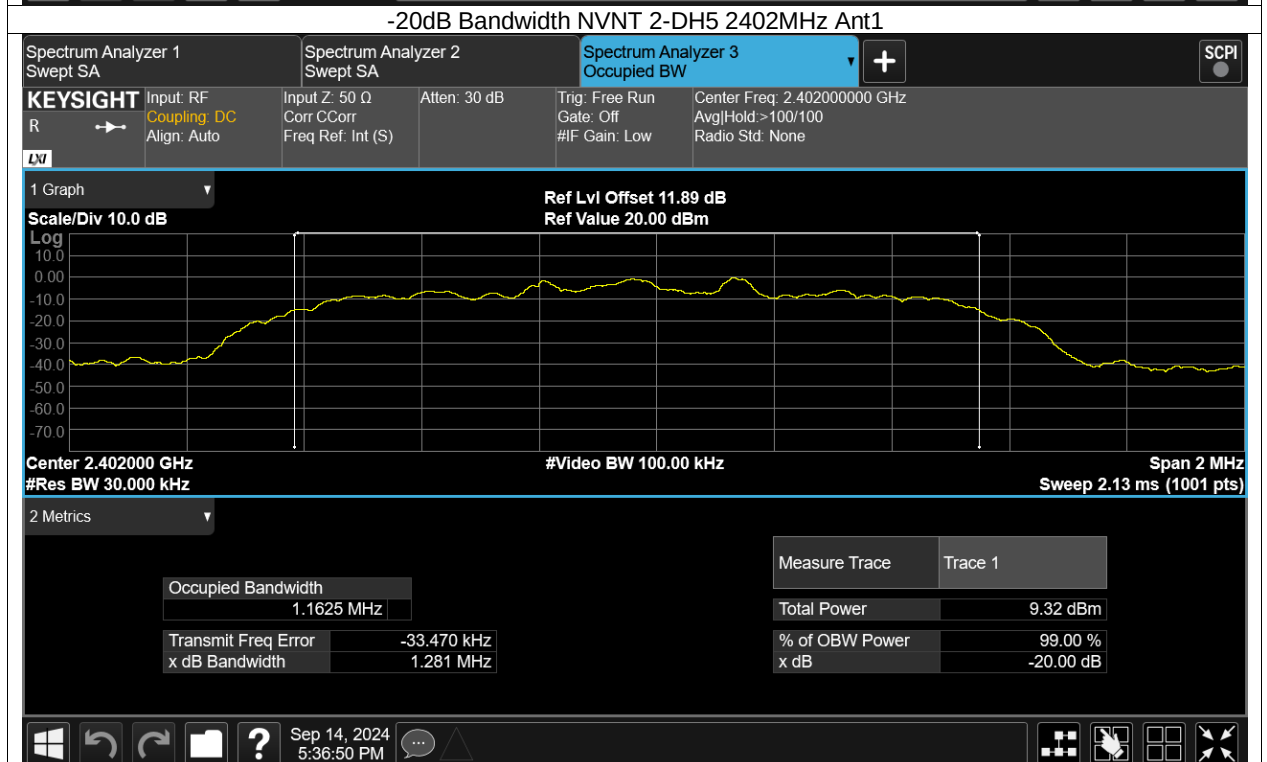
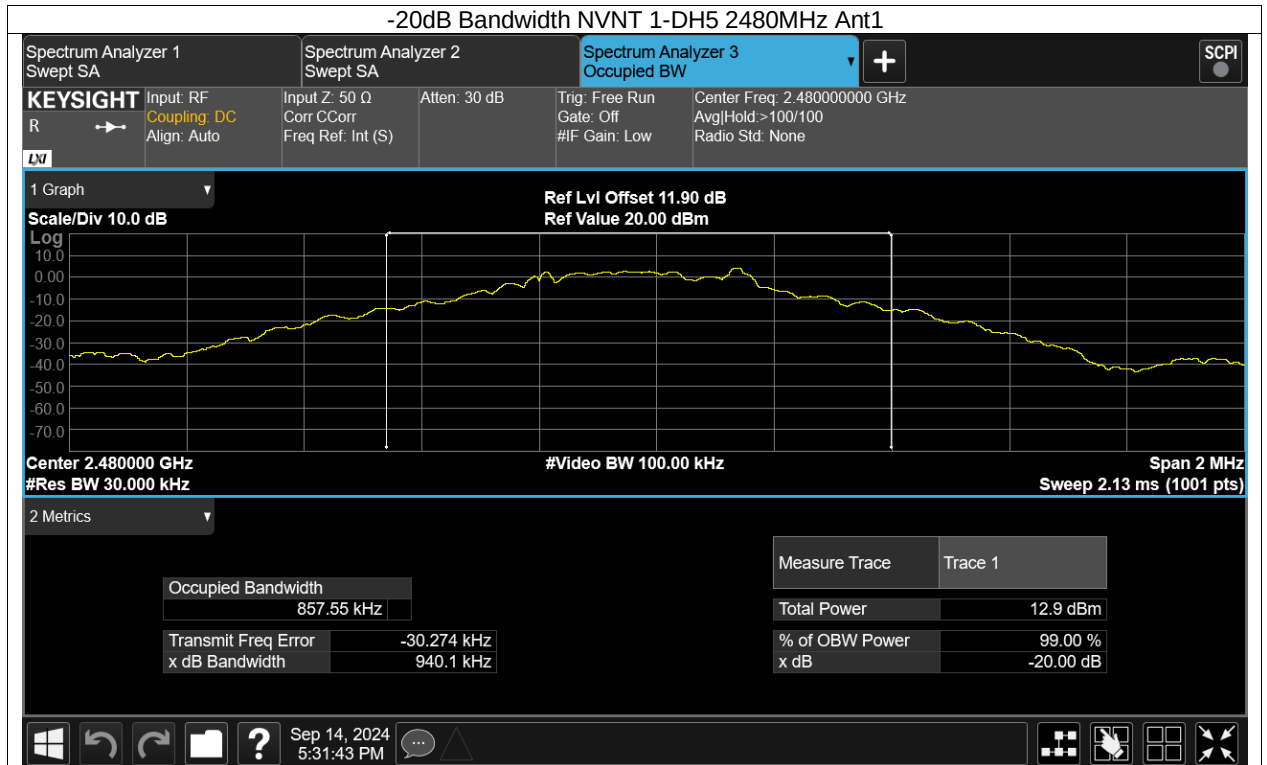


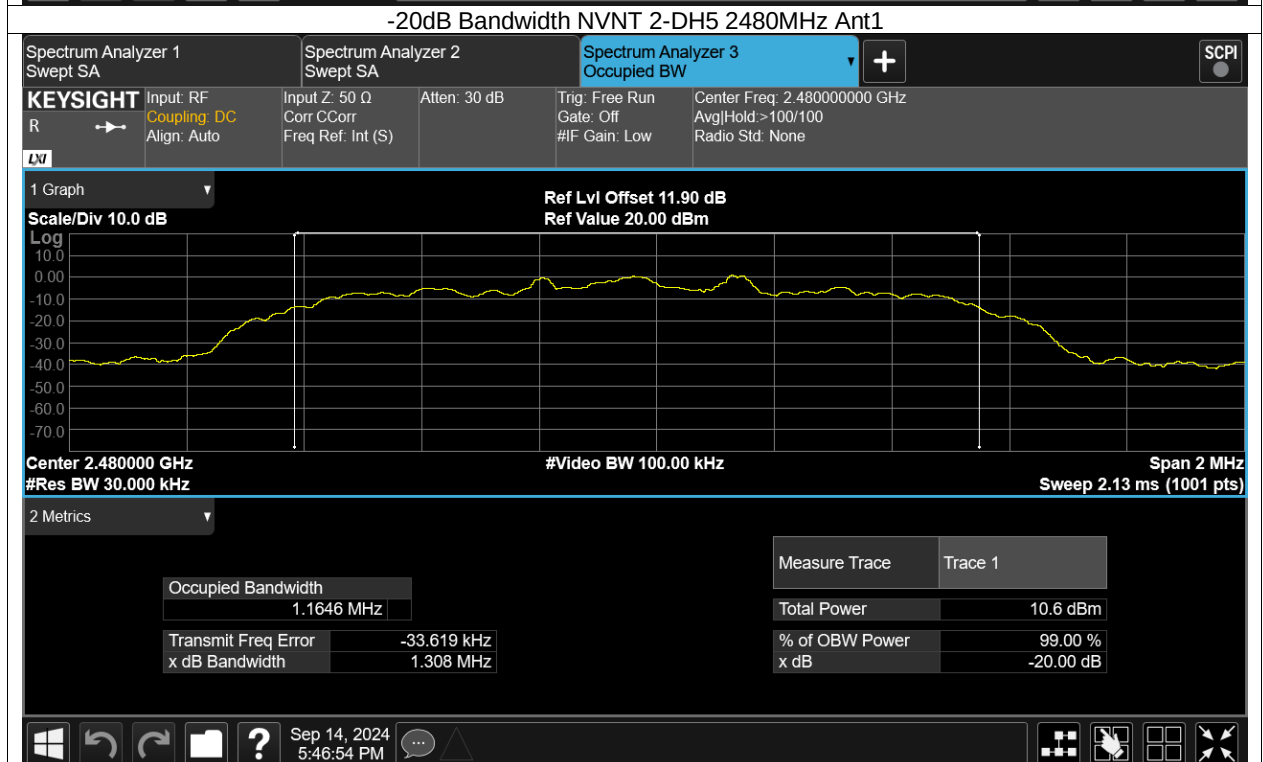
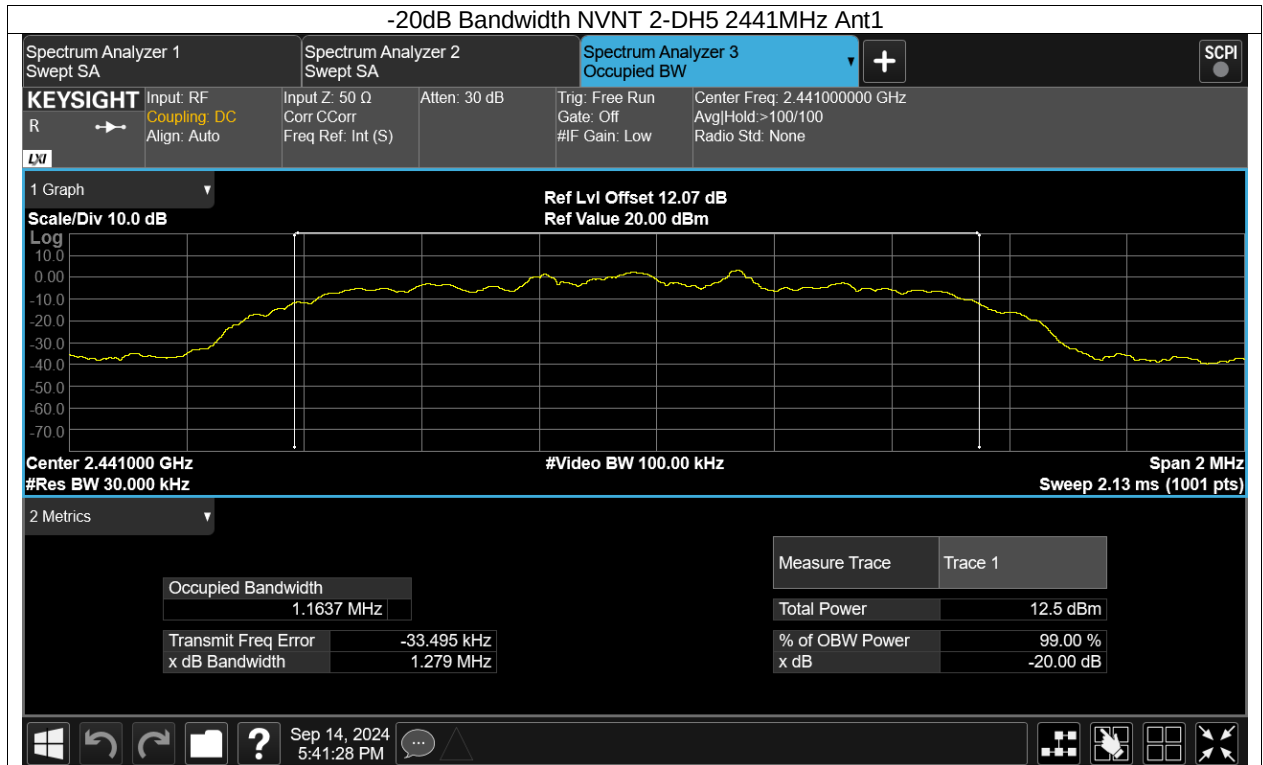


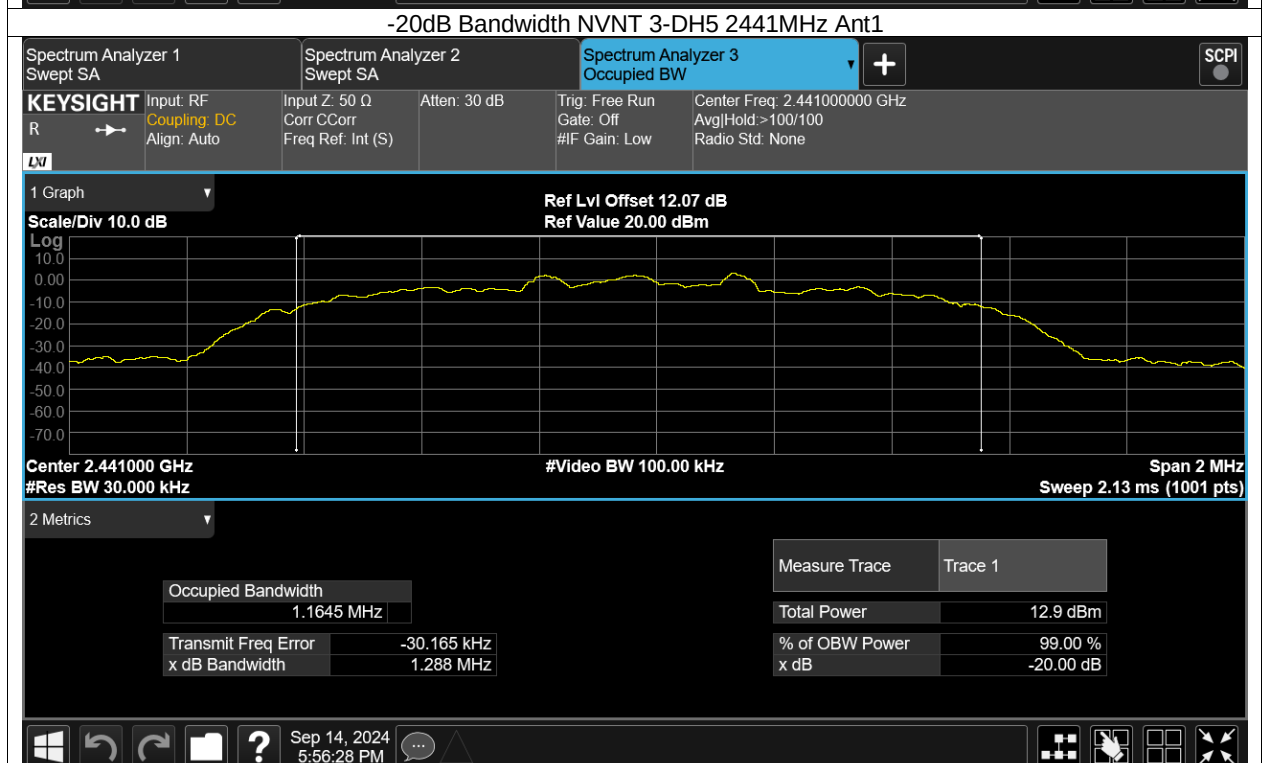
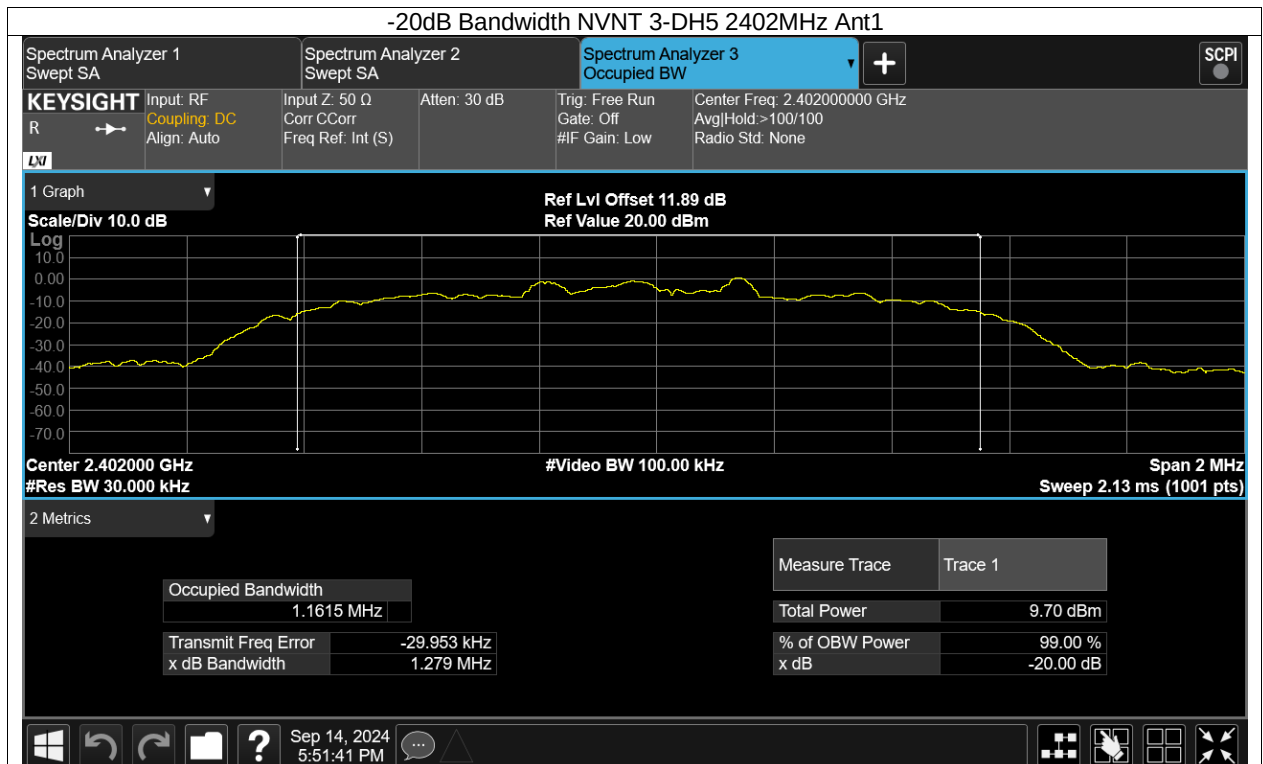
Appendix A.2: Test Results of 20dB Bandwidth

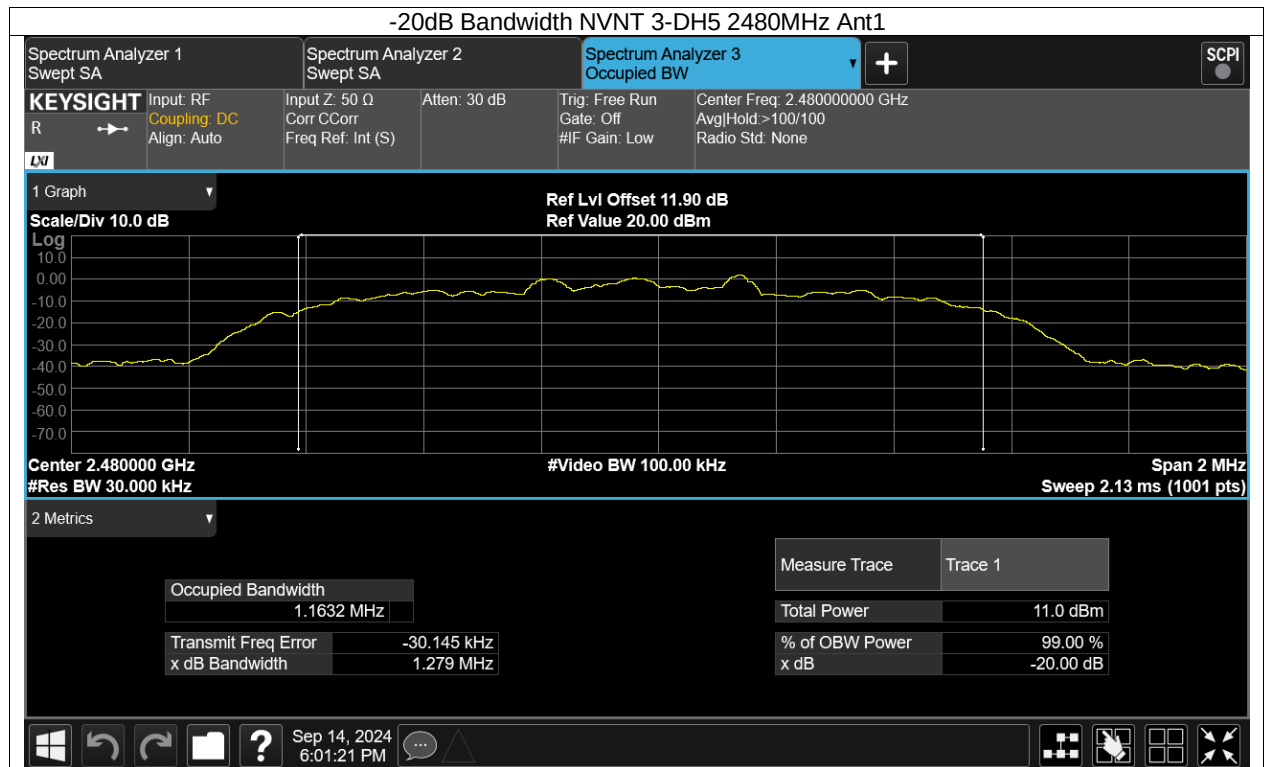
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.9417	0	Pass
NVNT	1-DH5	2441	Ant1	0.9573	0	Pass
NVNT	1-DH5	2480	Ant1	0.9401	0	Pass
NVNT	2-DH5	2402	Ant1	1.281	0	Pass
NVNT	2-DH5	2441	Ant1	1.279	0	Pass
NVNT	2-DH5	2480	Ant1	1.308	0	Pass
NVNT	3-DH5	2402	Ant1	1.279	0	Pass
NVNT	3-DH5	2441	Ant1	1.288	0	Pass
NVNT	3-DH5	2480	Ant1	1.279	0	Pass





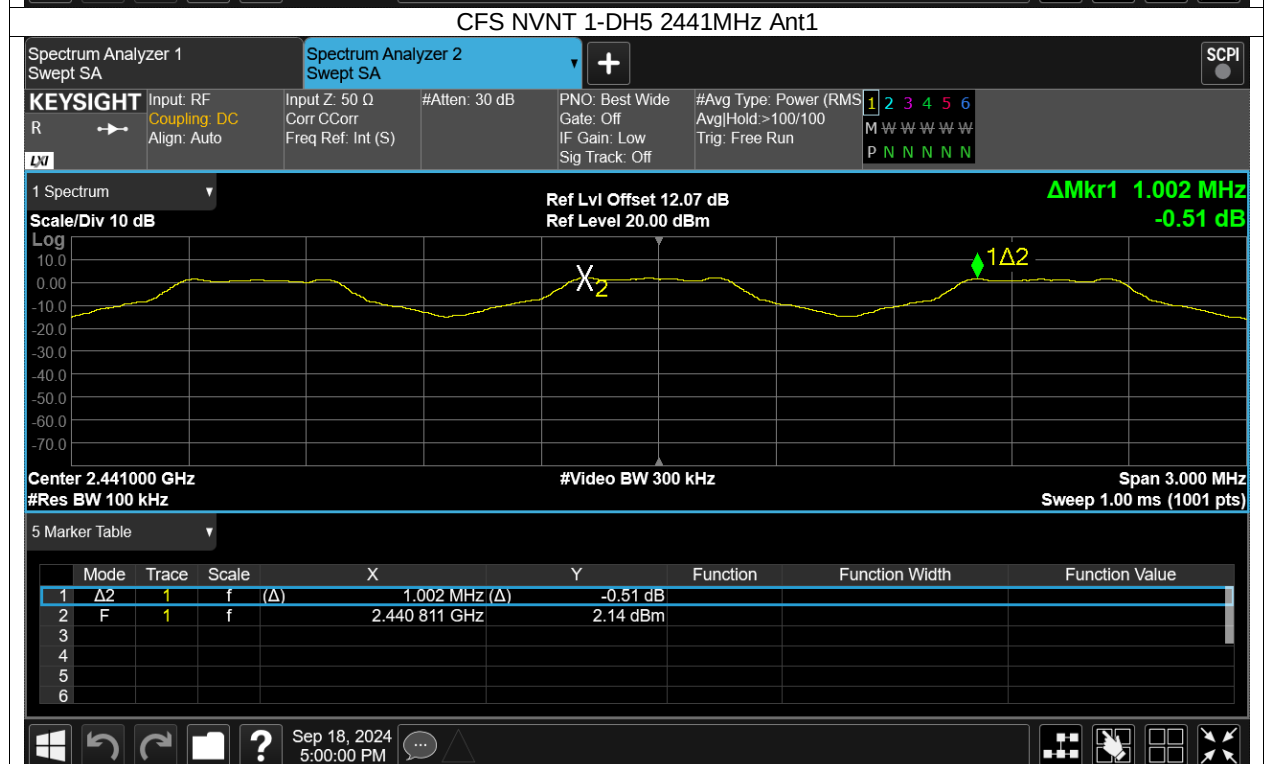
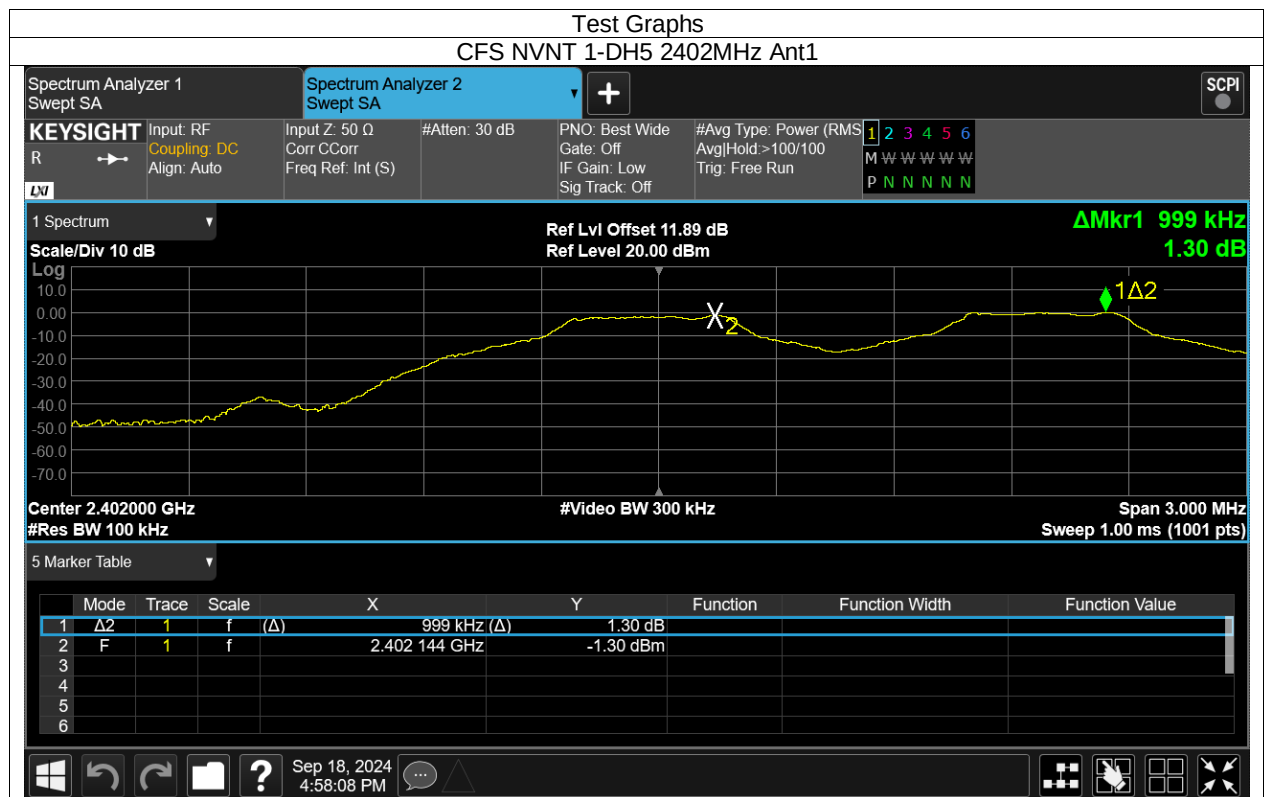


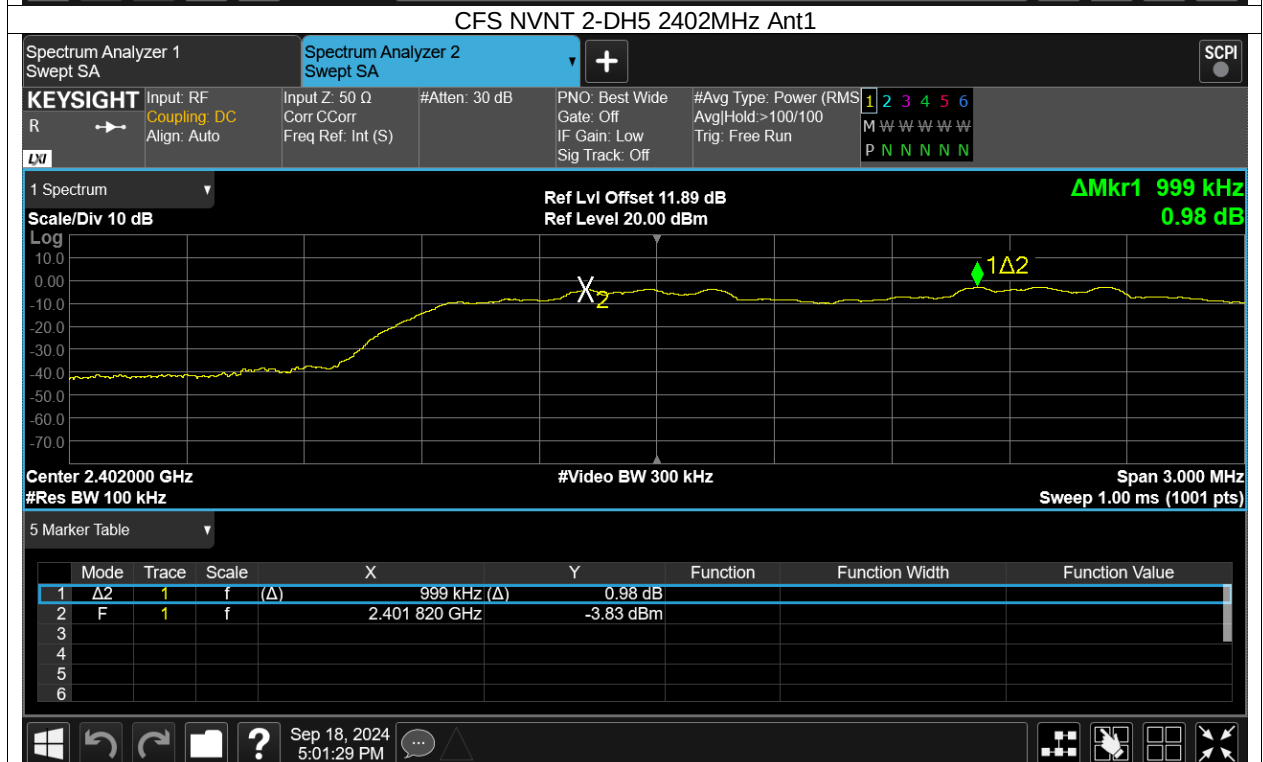
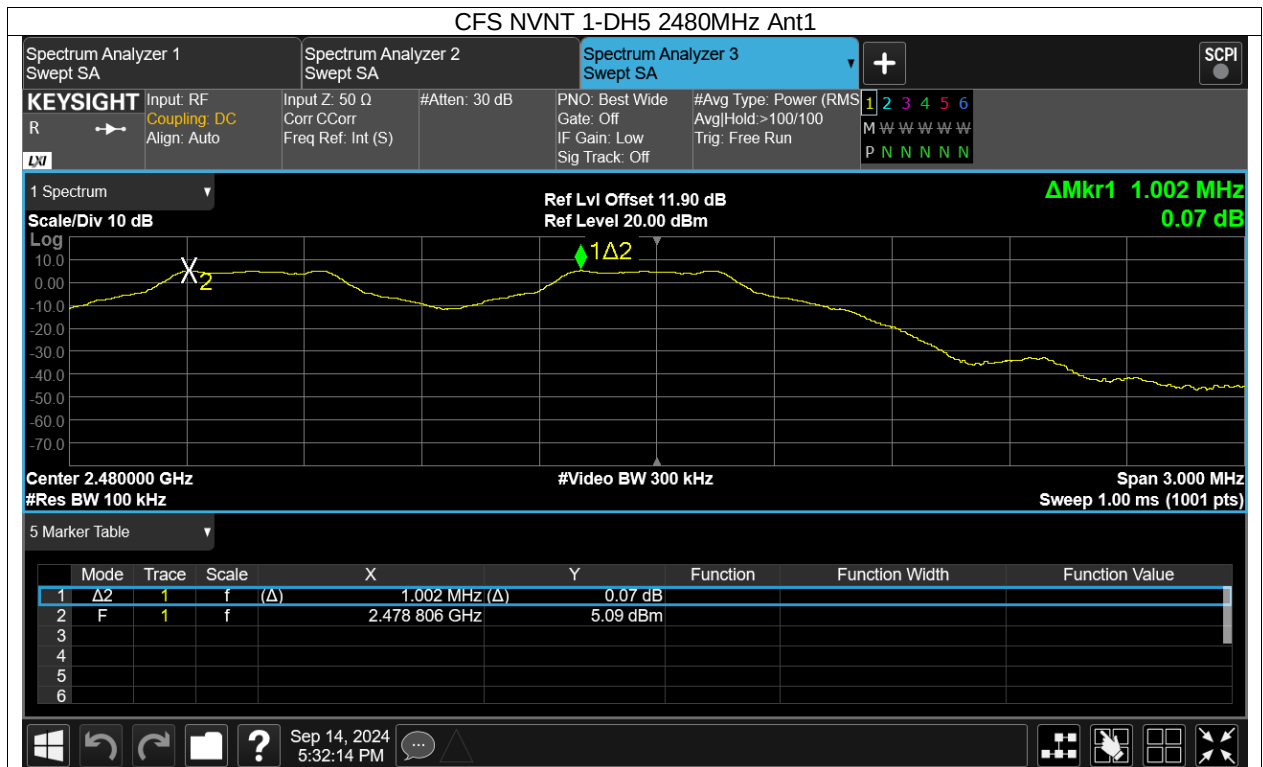


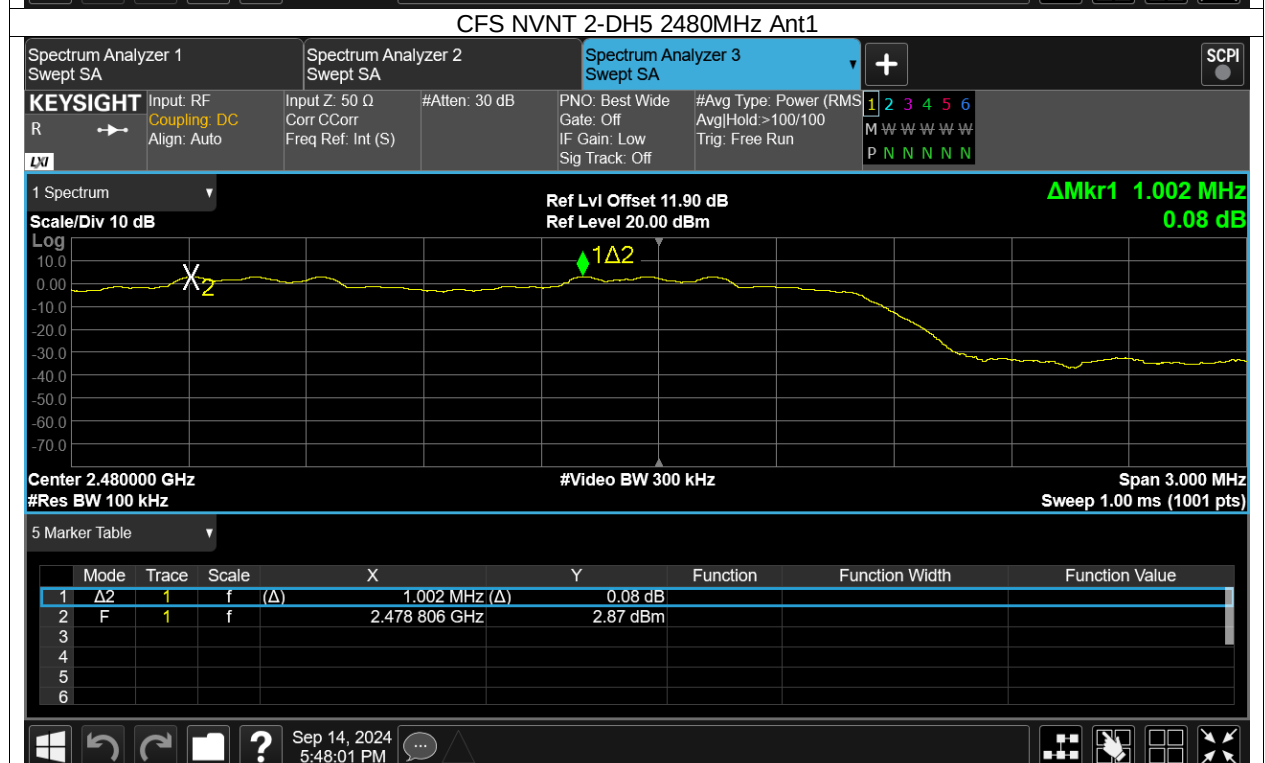
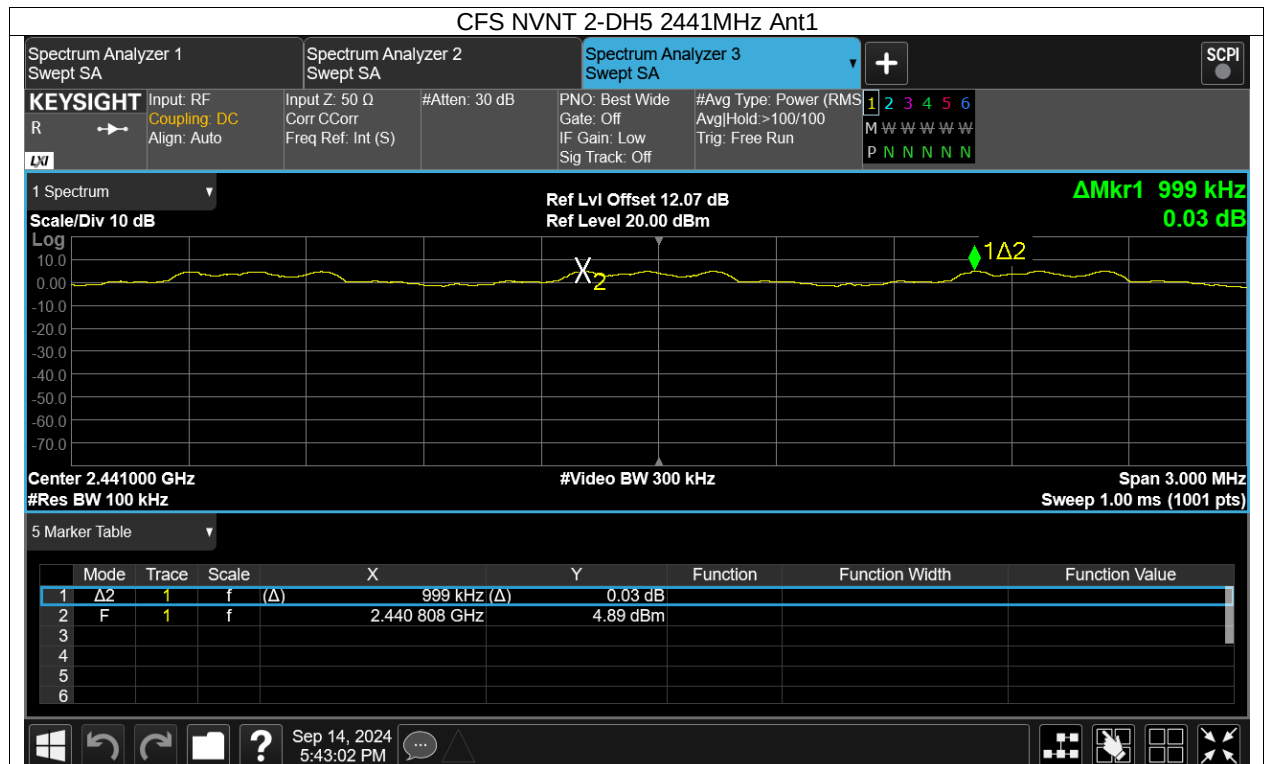


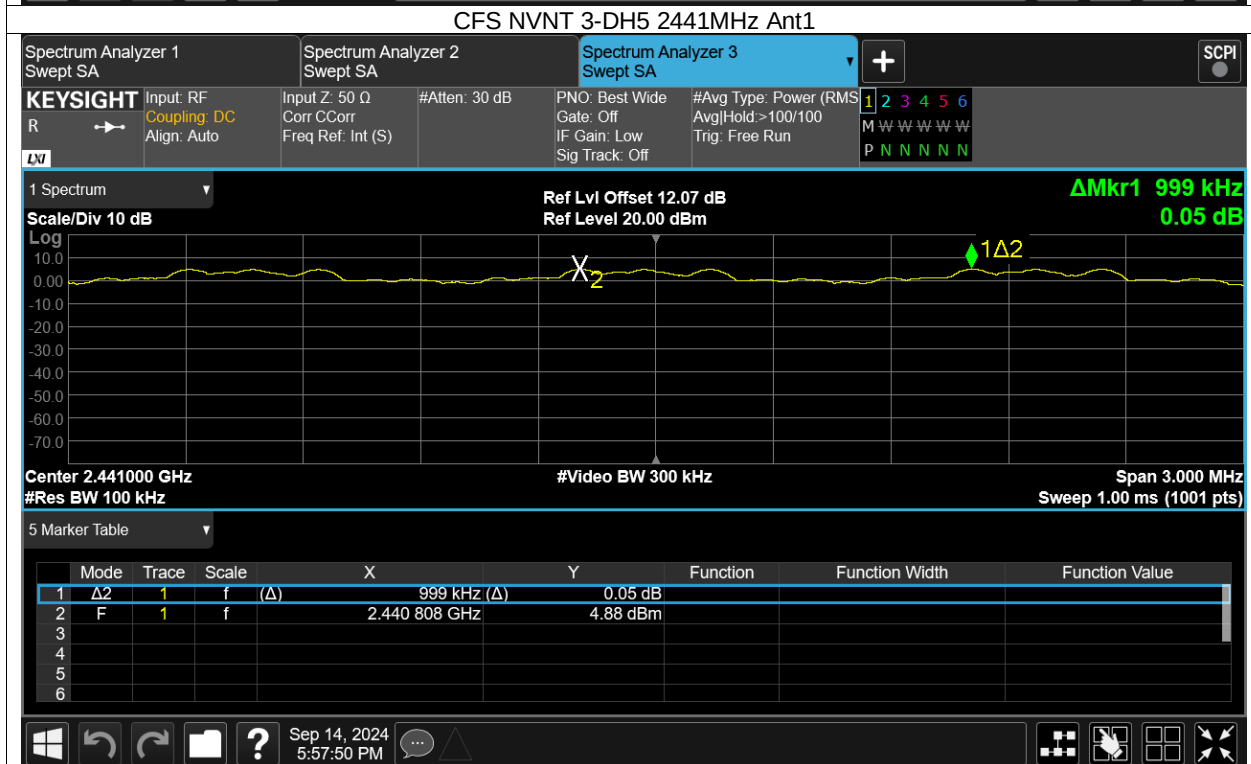
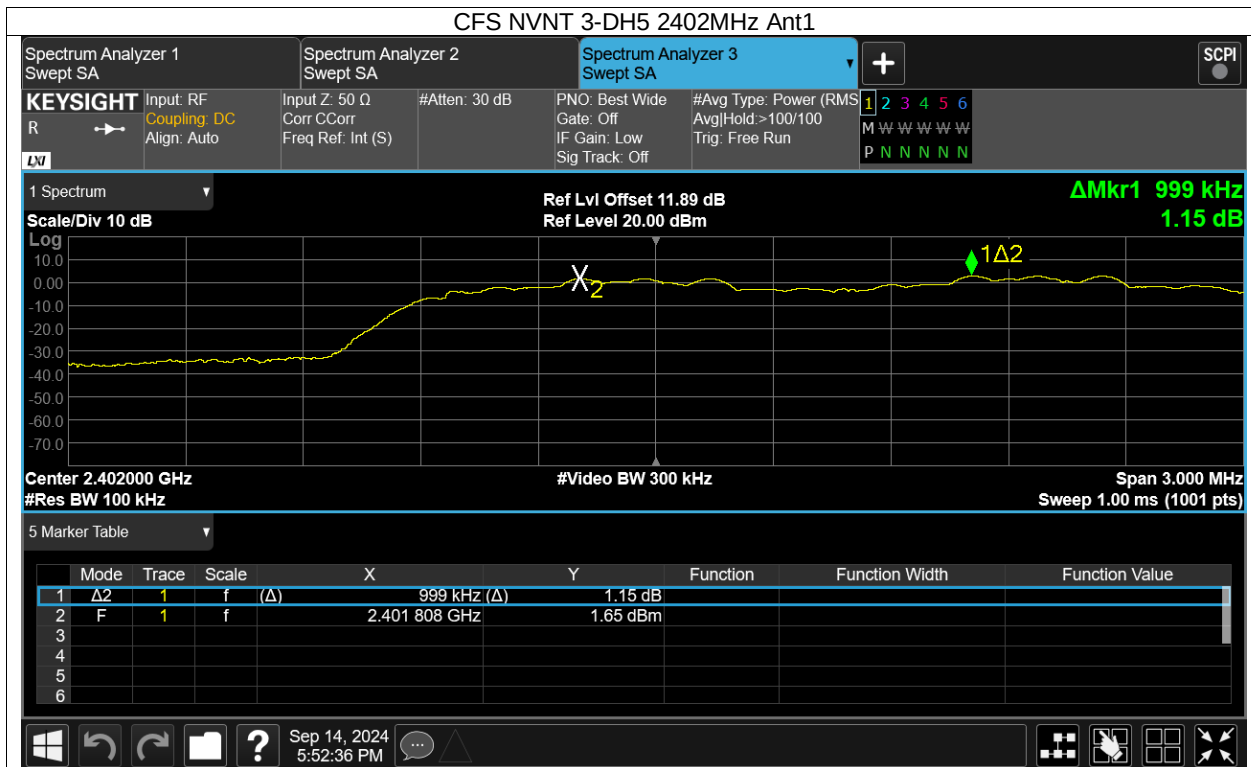
Appendix A.3: Test Results of Carrier Frequency Separation

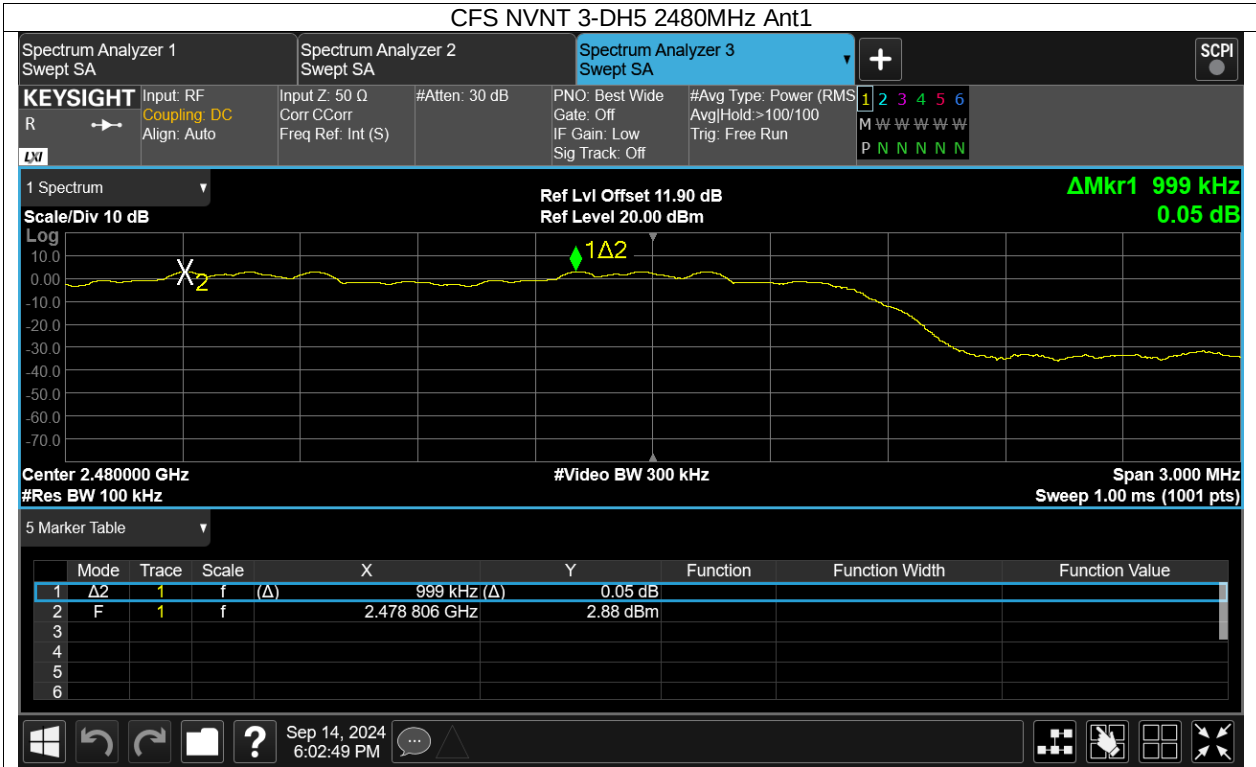
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.144	2403.143	0.999	0.025	Pass
NVNT	1-DH5	Ant1	2440.811	2441.813	1.002	0.025	Pass
NVNT	1-DH5	Ant1	2478.806	2479.808	1.002	0.627	Pass
NVNT	2-DH5	Ant1	2401.82	2402.819	0.999	0.025	Pass
NVNT	2-DH5	Ant1	2440.808	2441.807	0.999	0.853	Pass
NVNT	2-DH5	Ant1	2478.806	2479.808	1.002	0.872	Pass
NVNT	3-DH5	Ant1	2401.808	2402.807	0.999	0.853	Pass
NVNT	3-DH5	Ant1	2440.808	2441.807	0.999	0.859	Pass
NVNT	3-DH5	Ant1	2478.806	2479.805	0.999	0.853	Pass





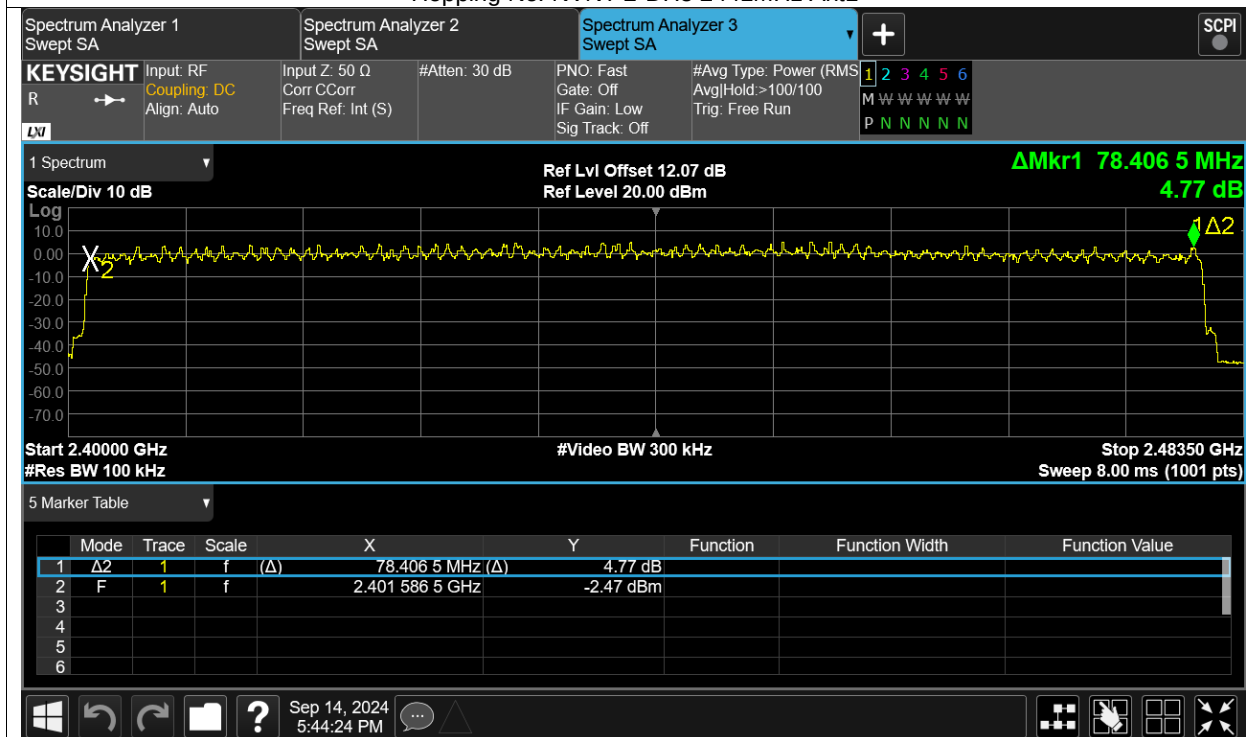


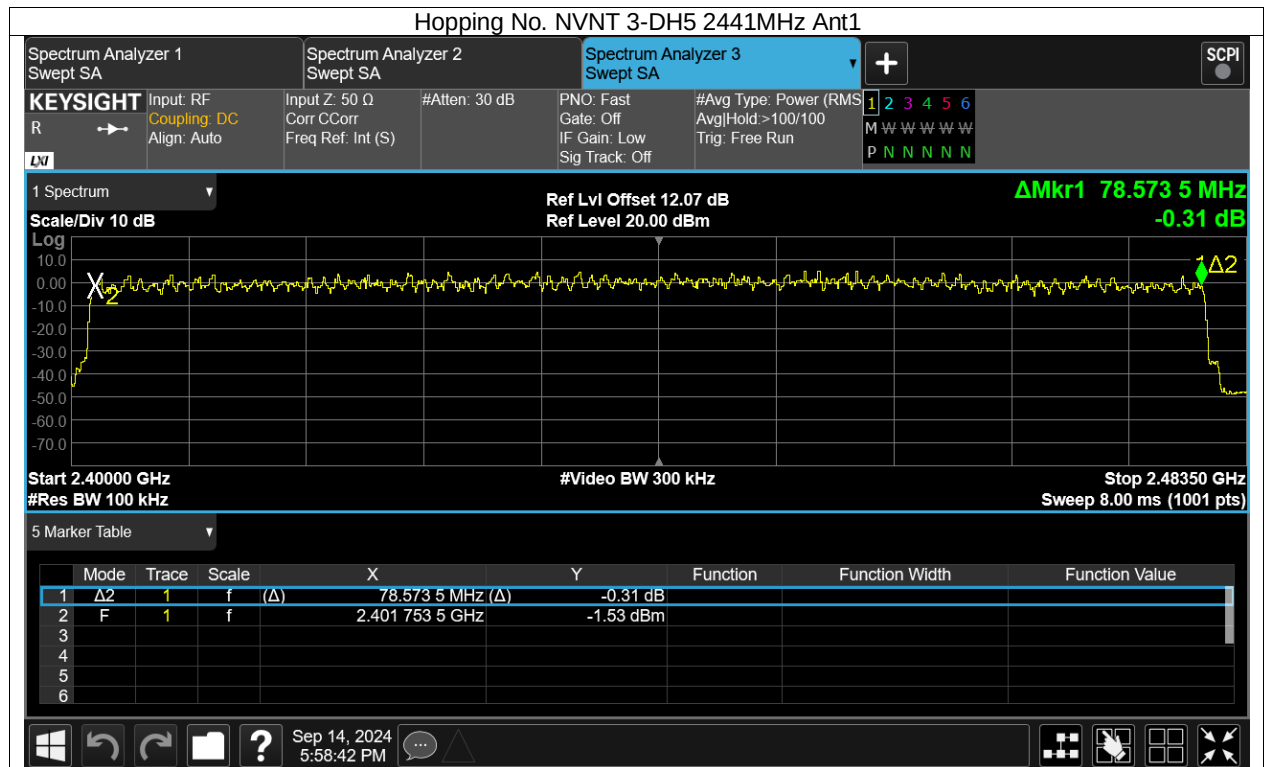




Appendix A.4: Test Results of Number of Hopping Frequency

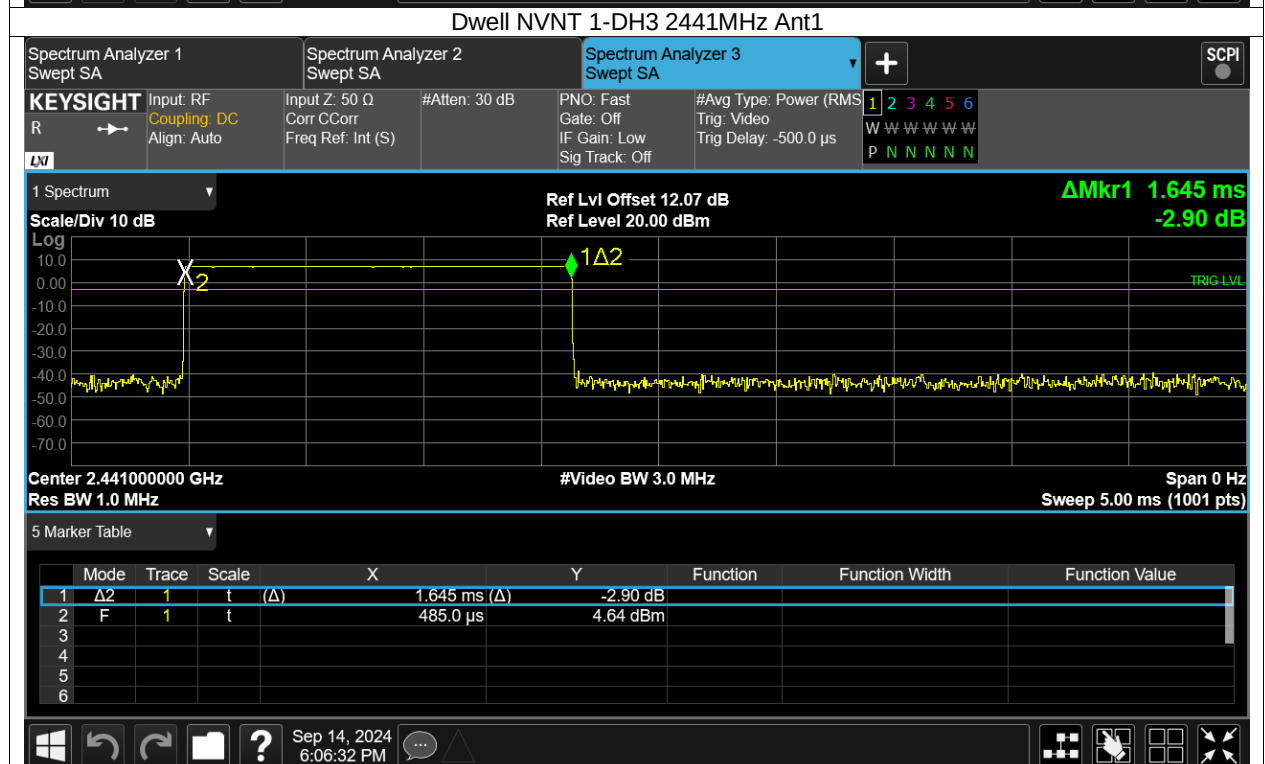
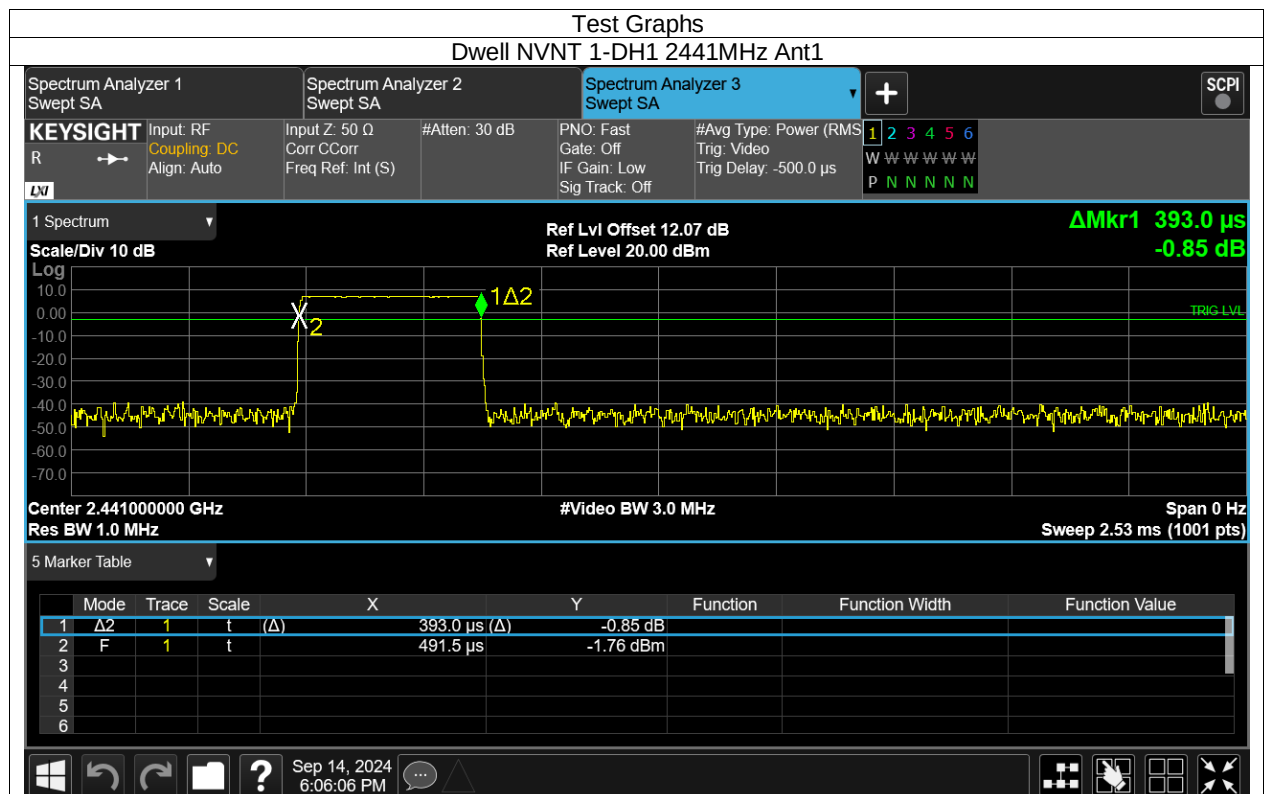
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

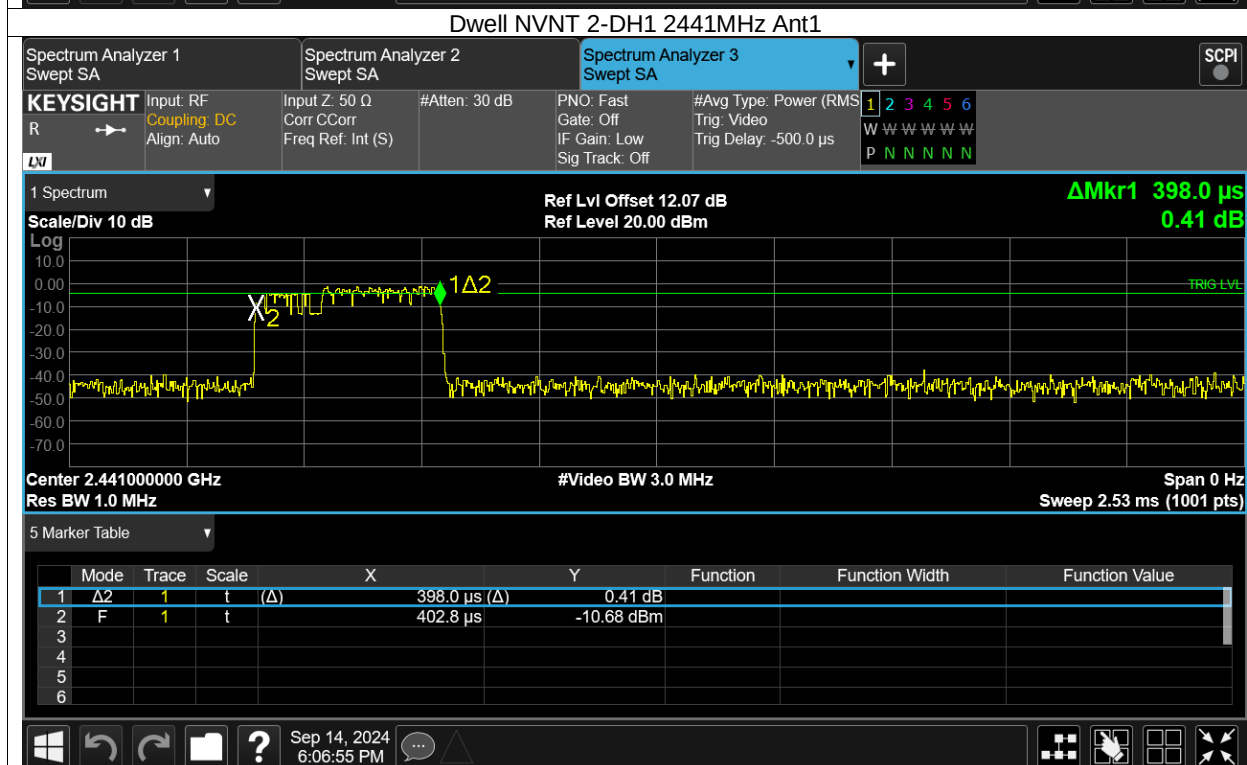
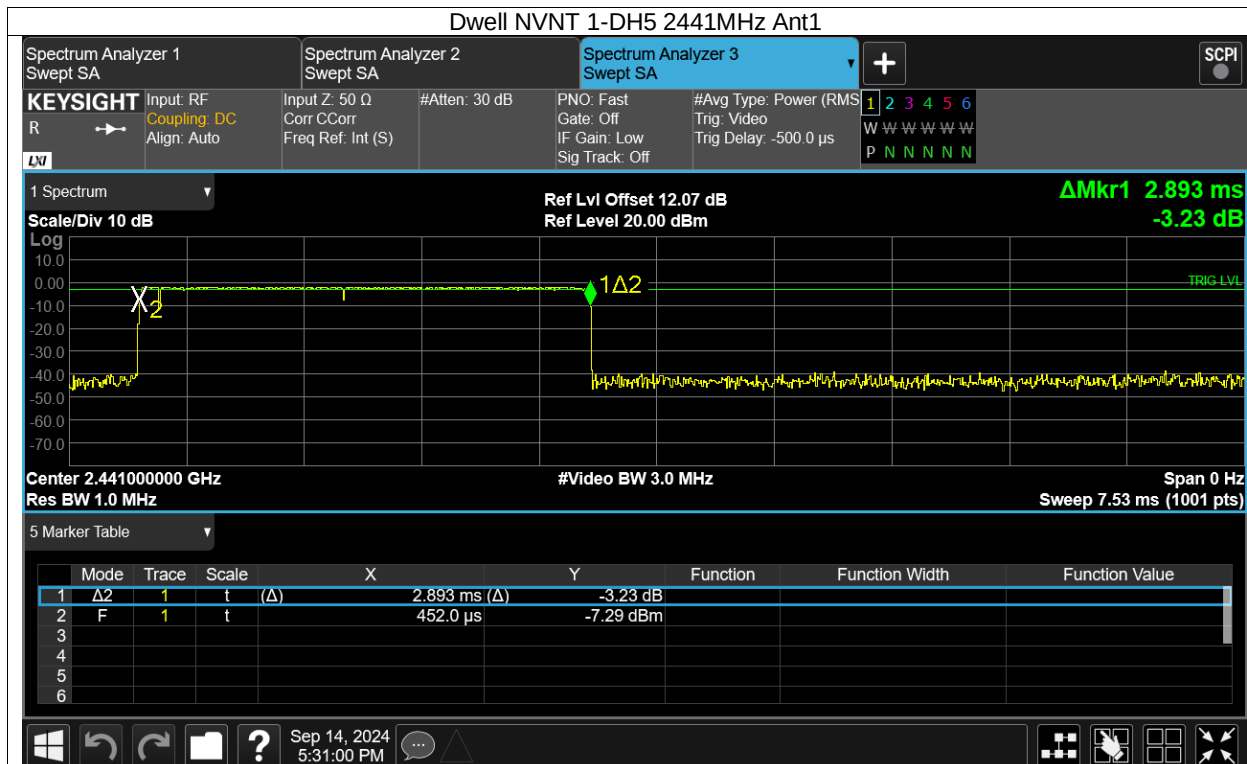


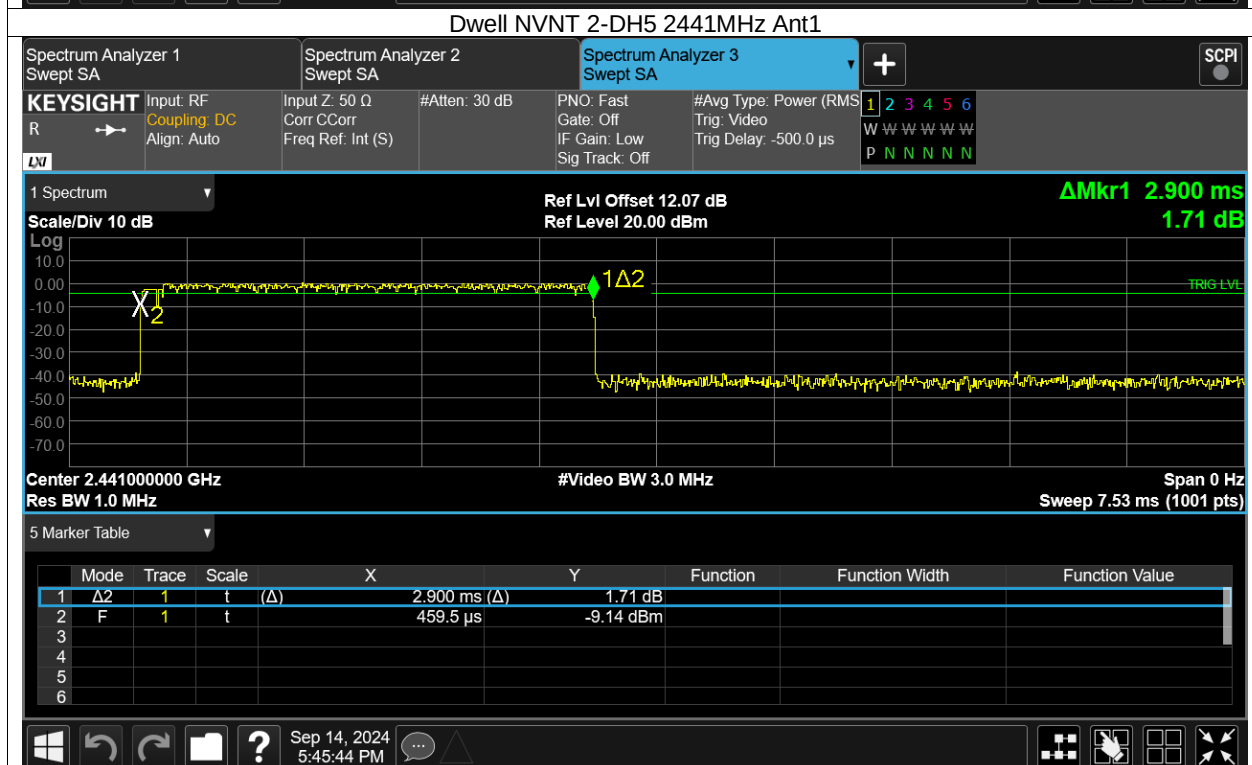
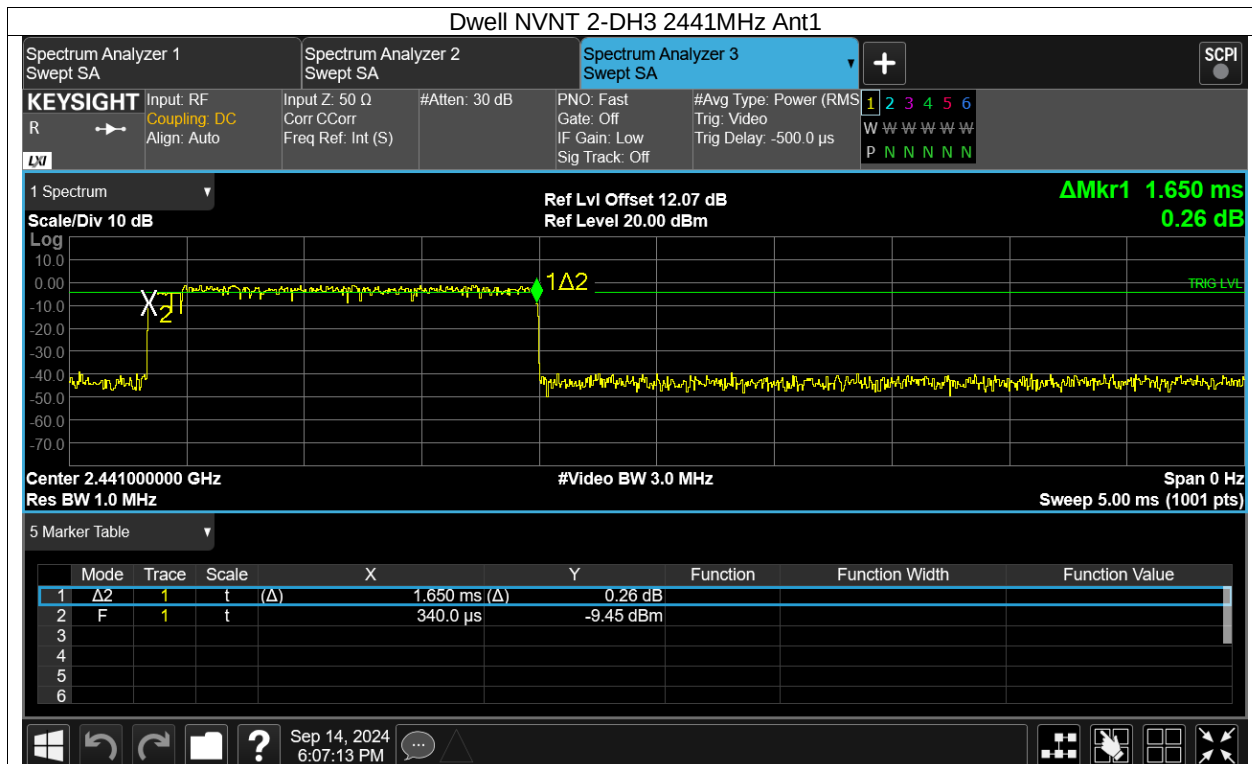


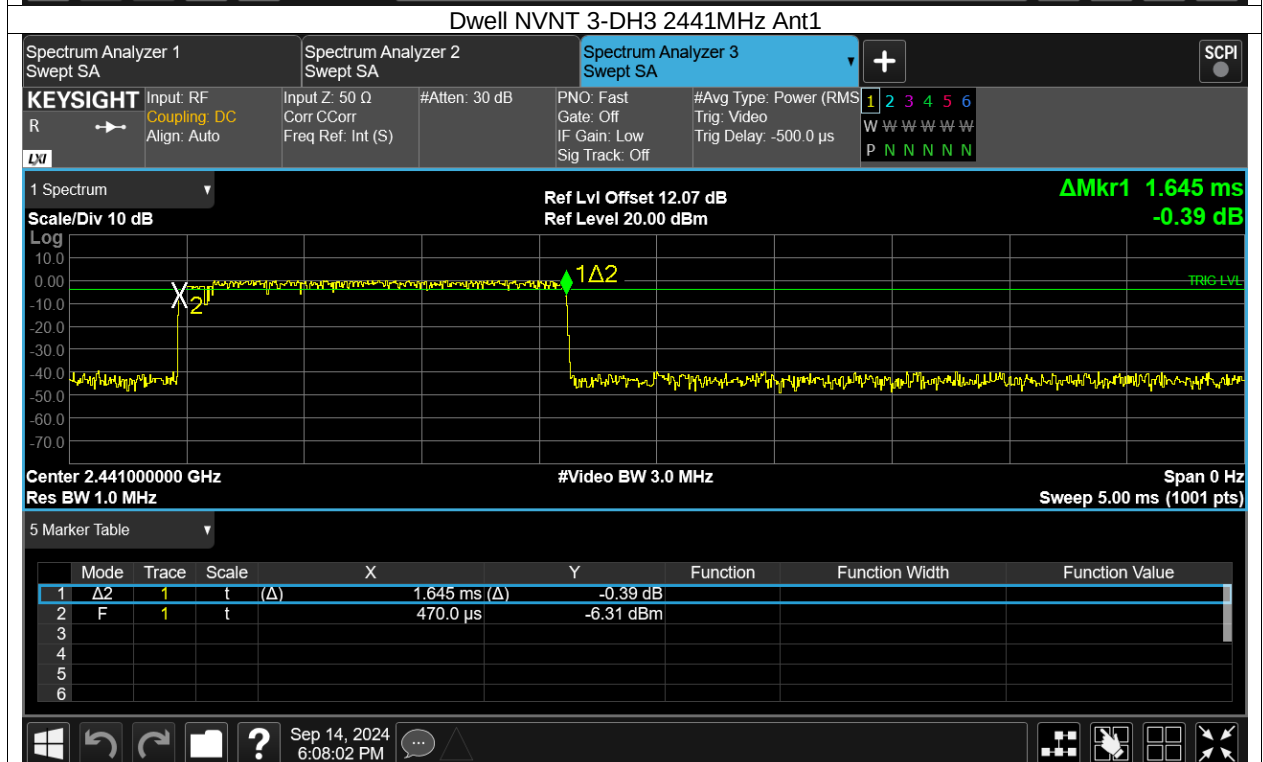
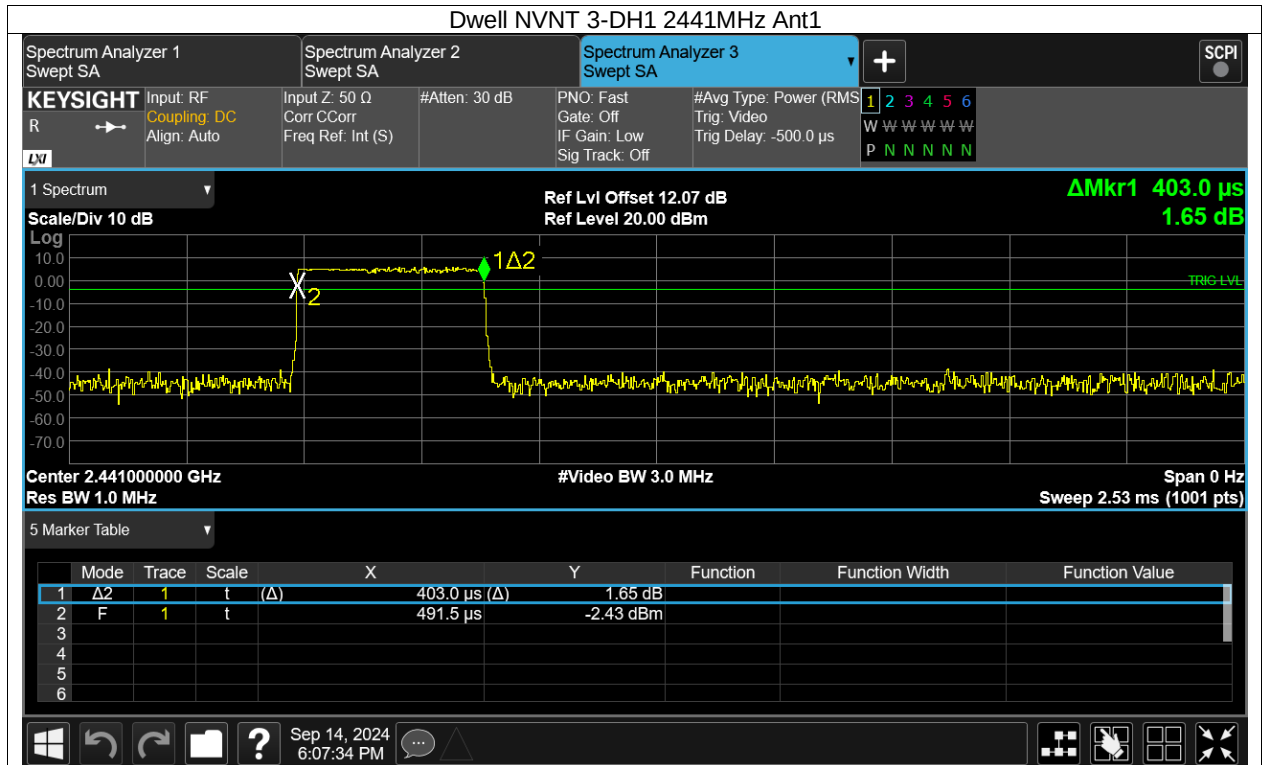
Appendix A.5: Test Results of Time of Occupancy

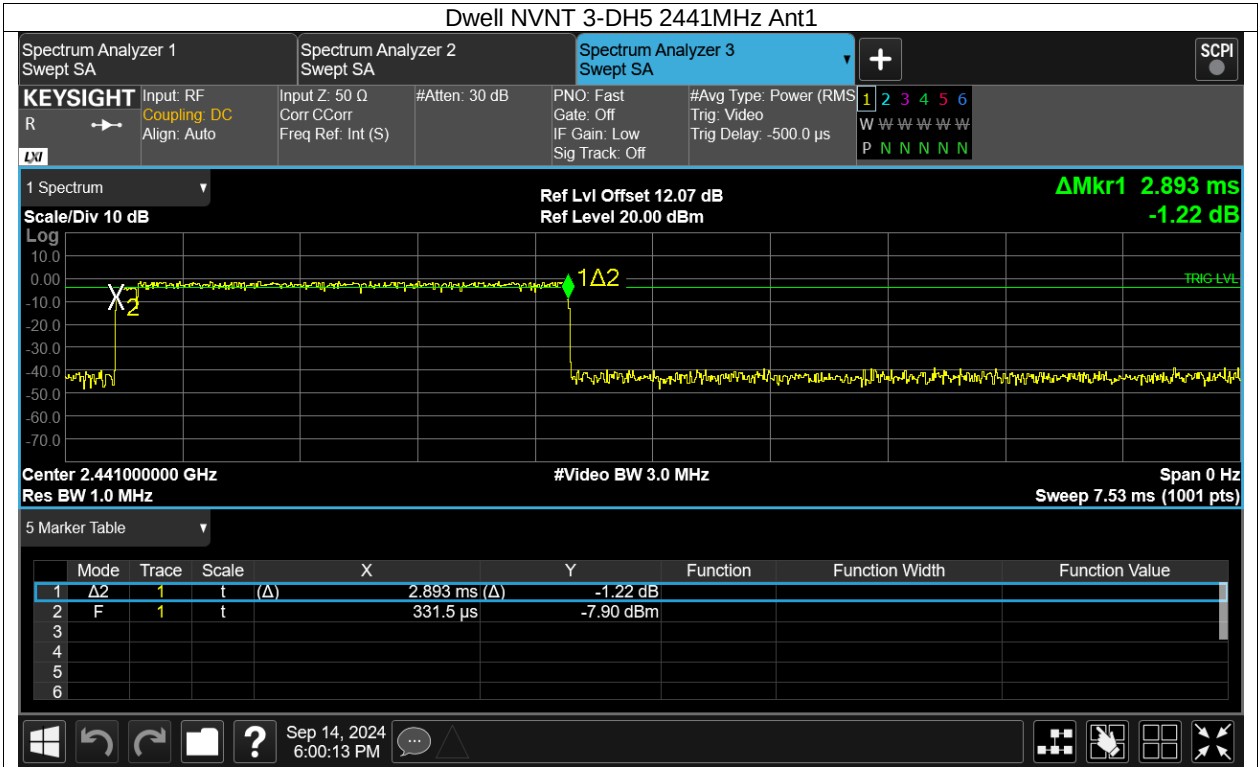
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.393	125.76	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.645	263.2	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.893	308.587	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.398	127.36	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.65	264	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.9	309.333	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.403	128.96	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.645	263.2	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.893	308.587	31600	400	Pass











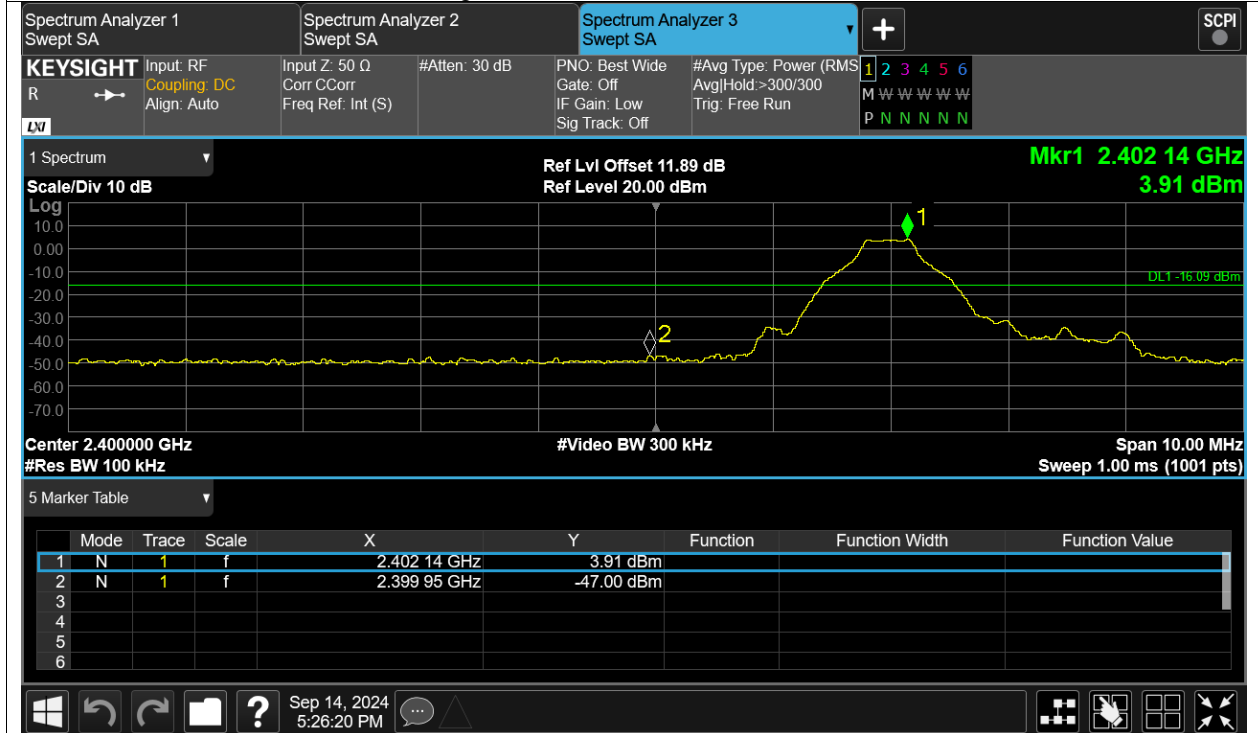
Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge (Fixed mode)

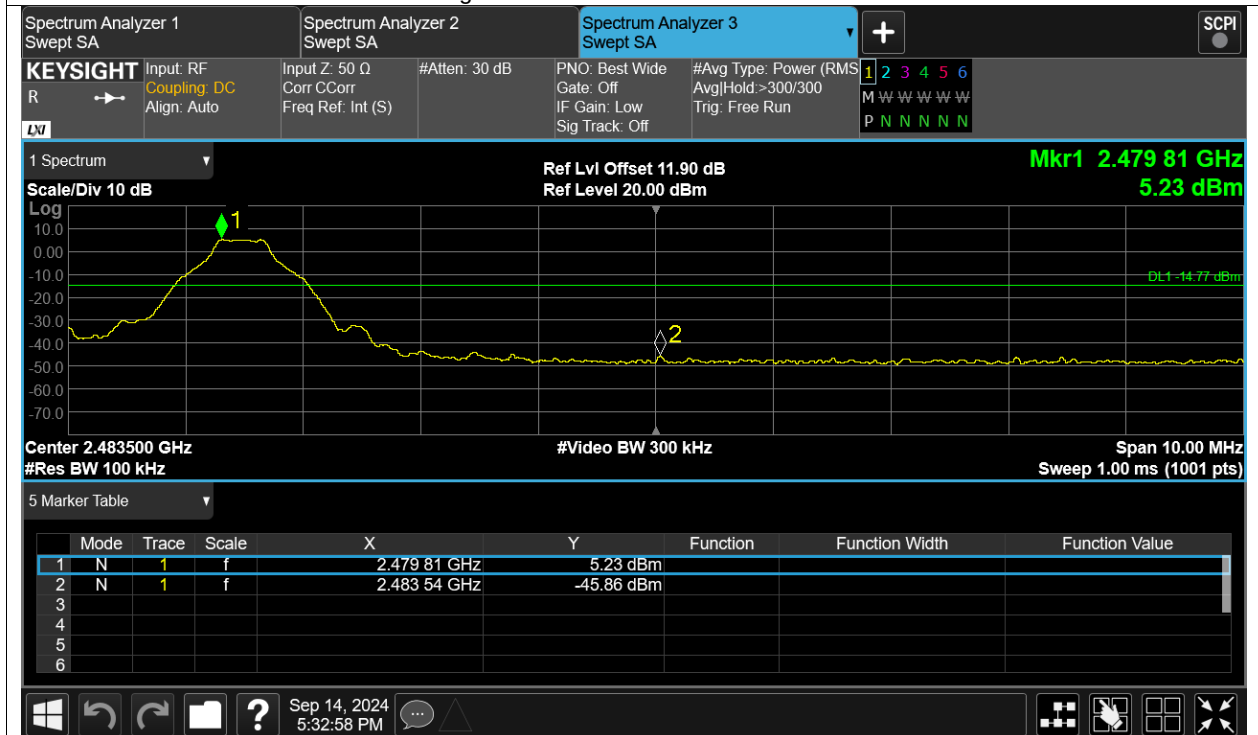
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-50.9	-20	Pass
NVNT	1-DH5	2480	Ant1	-51.09	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.07	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.47	-20	Pass
NVNT	3-DH5	2402	Ant1	-41.89	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.51	-20	Pass

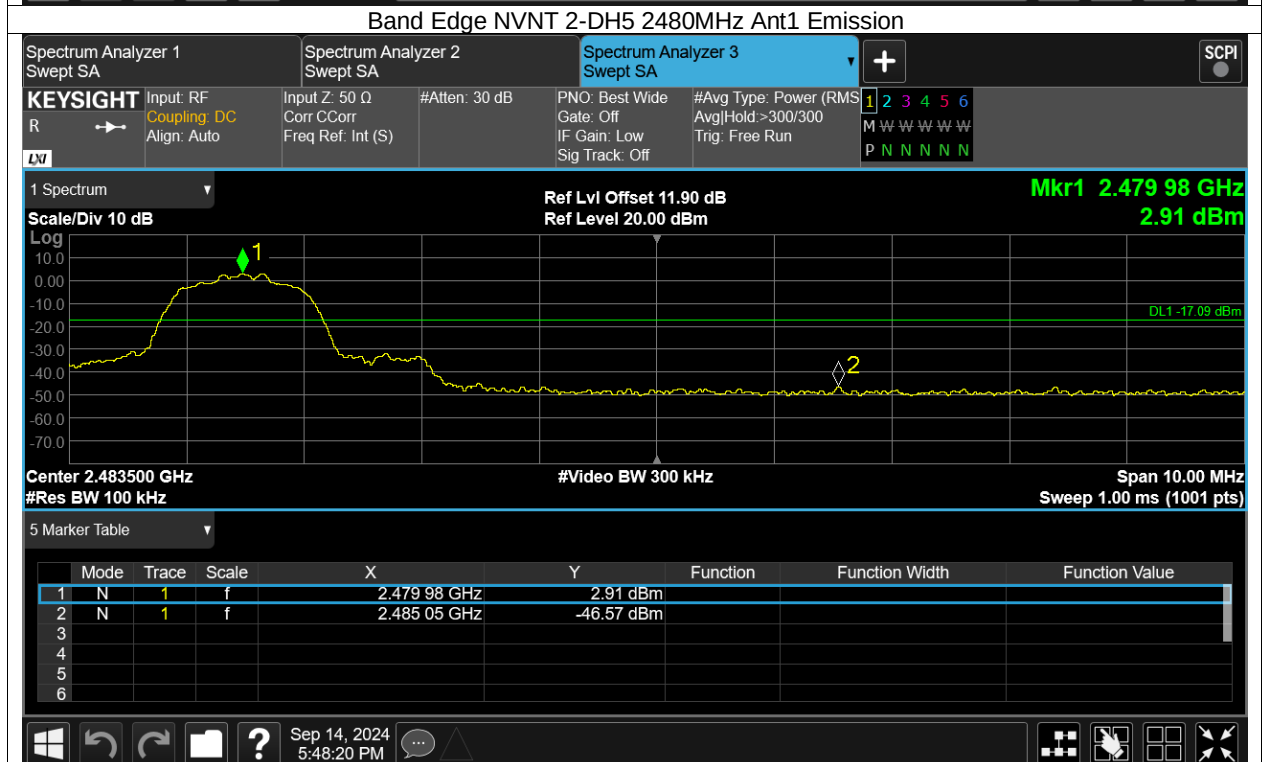
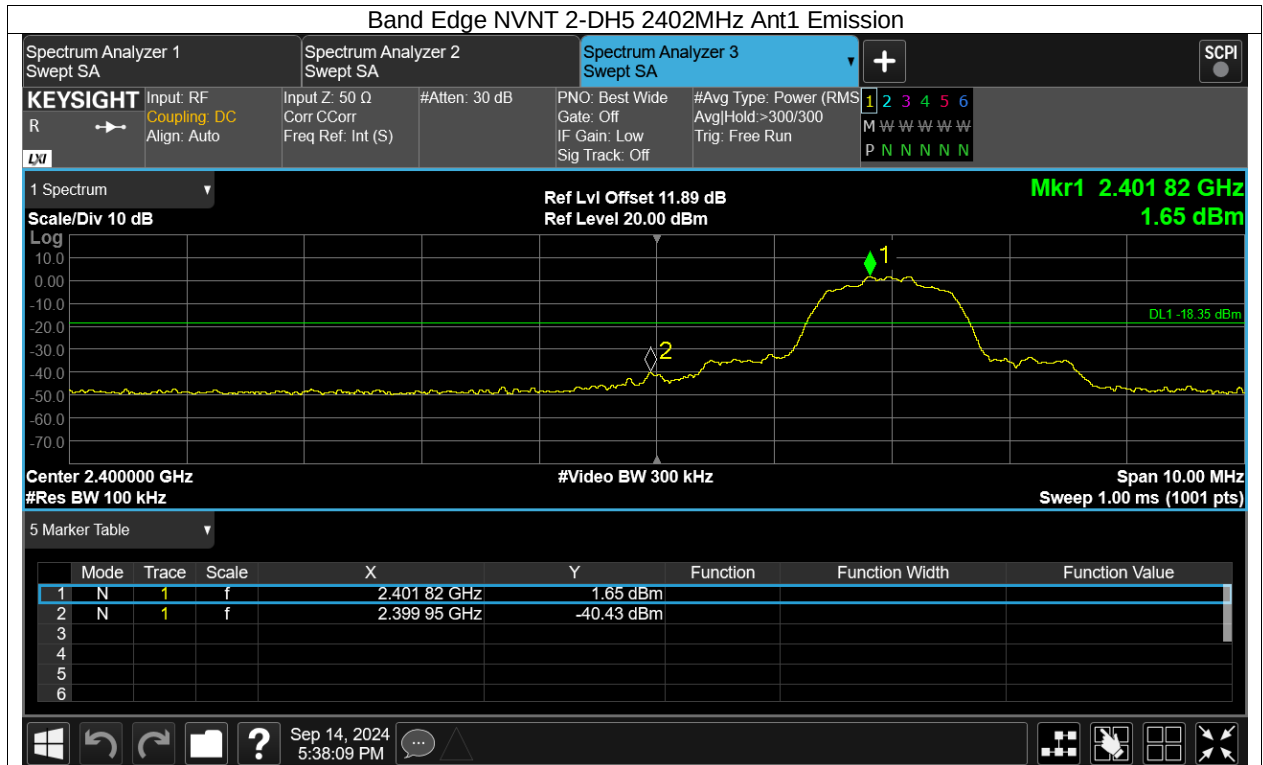
Test Graphs

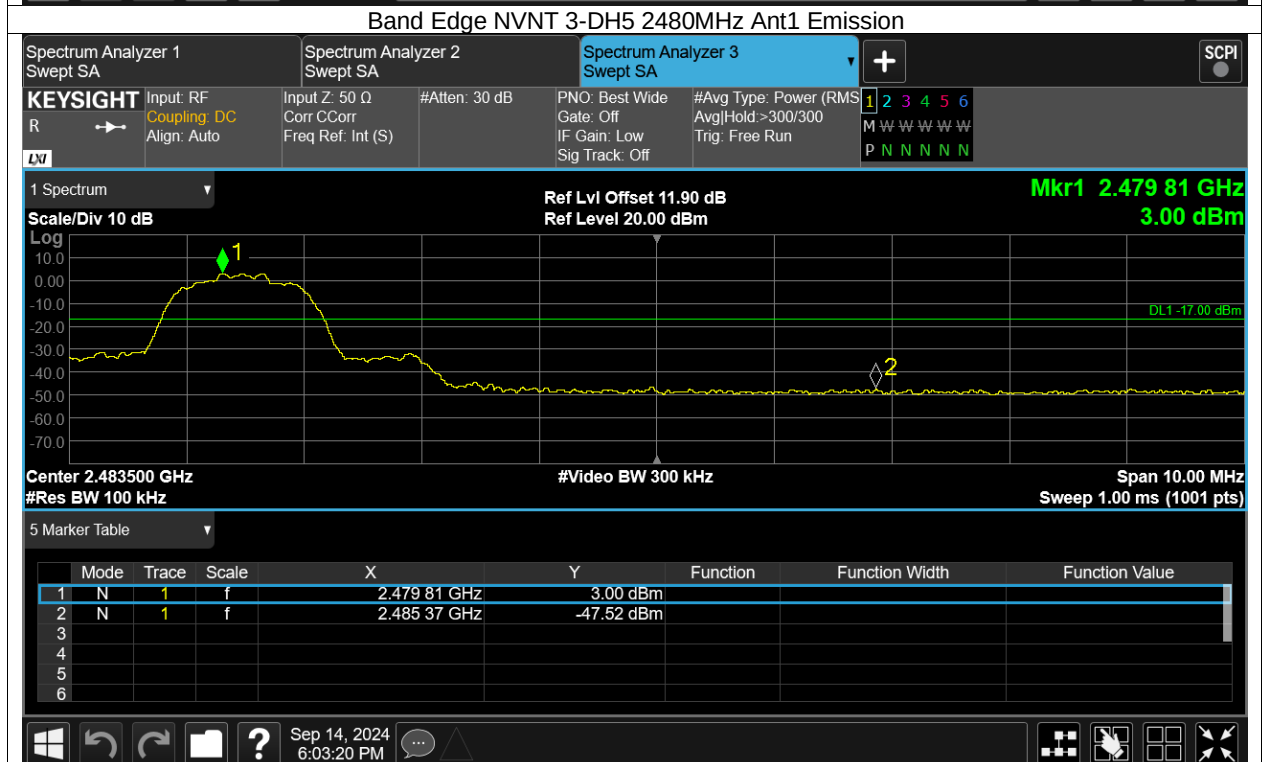
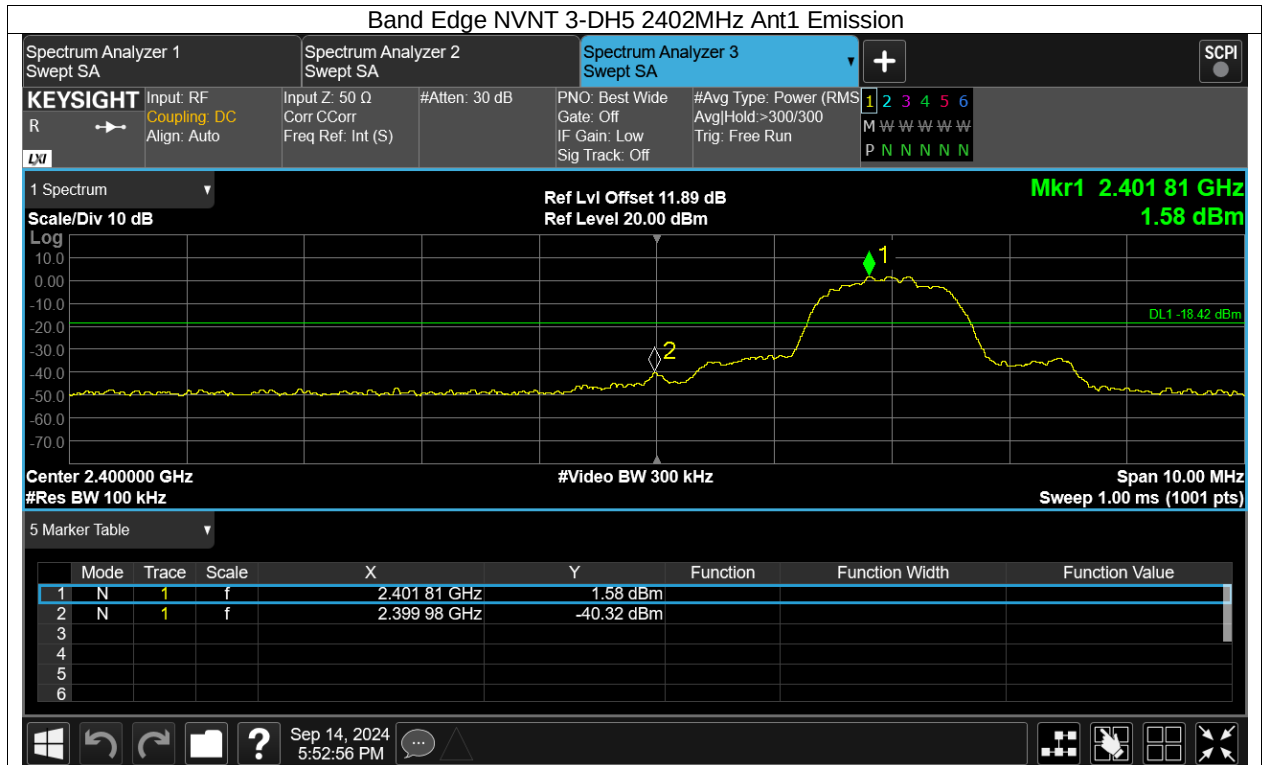
Band Edge NVNT 1-DH5 2402MHz Ant1 Emission



Band Edge NVNT 1-DH5 2480MHz Ant1 Emission

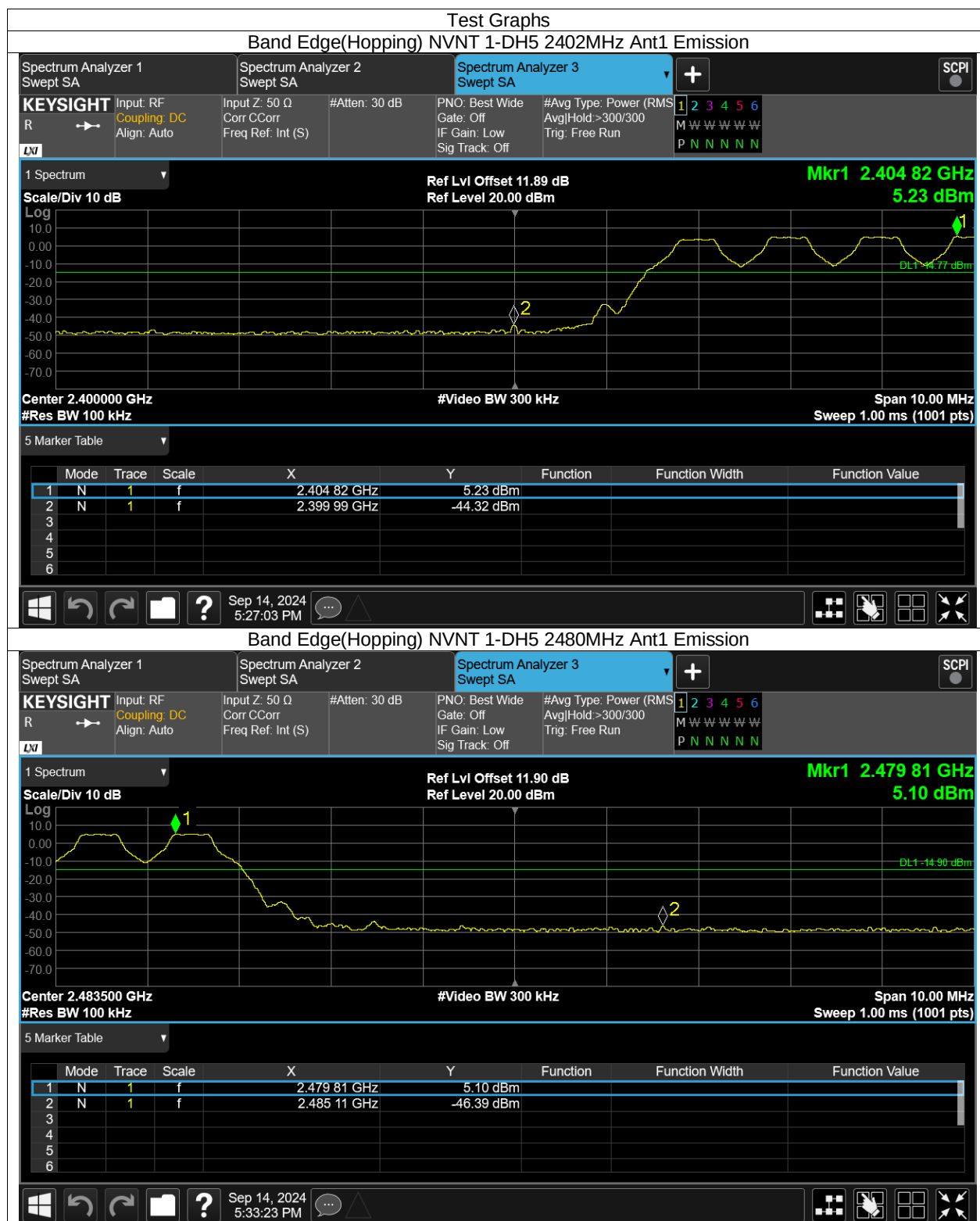


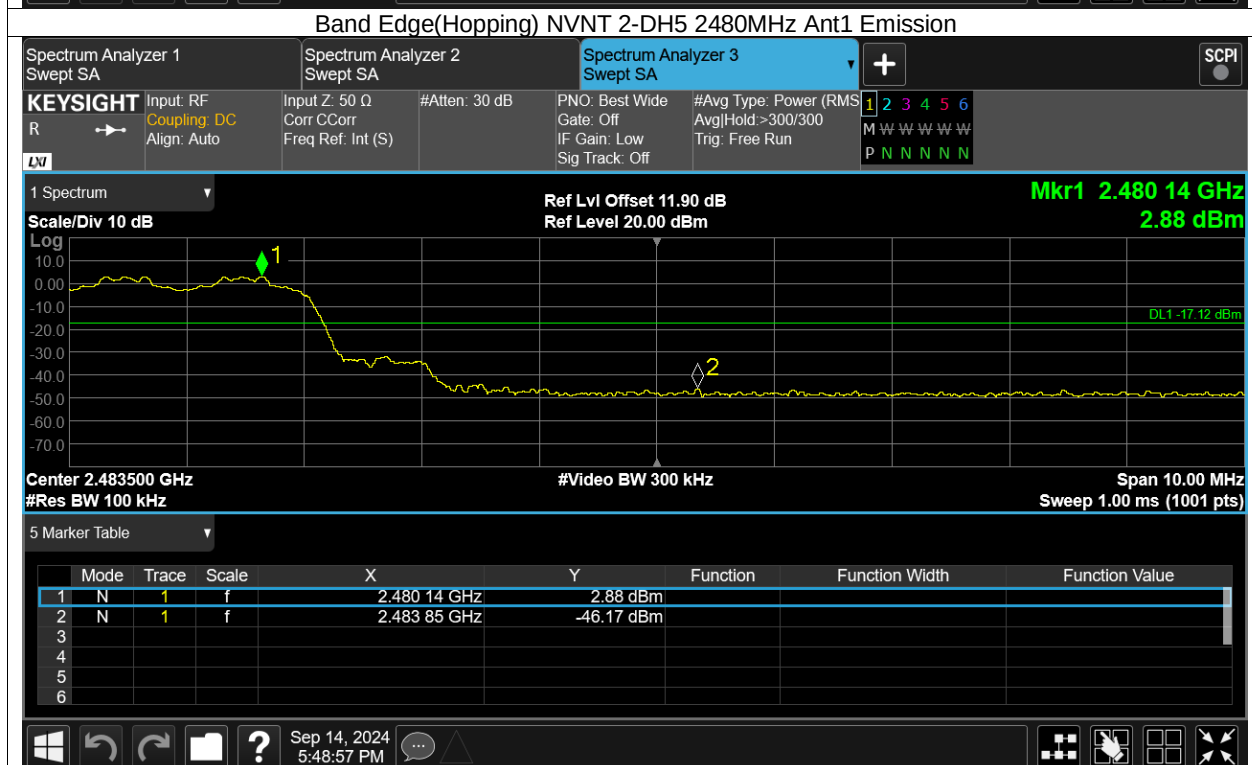
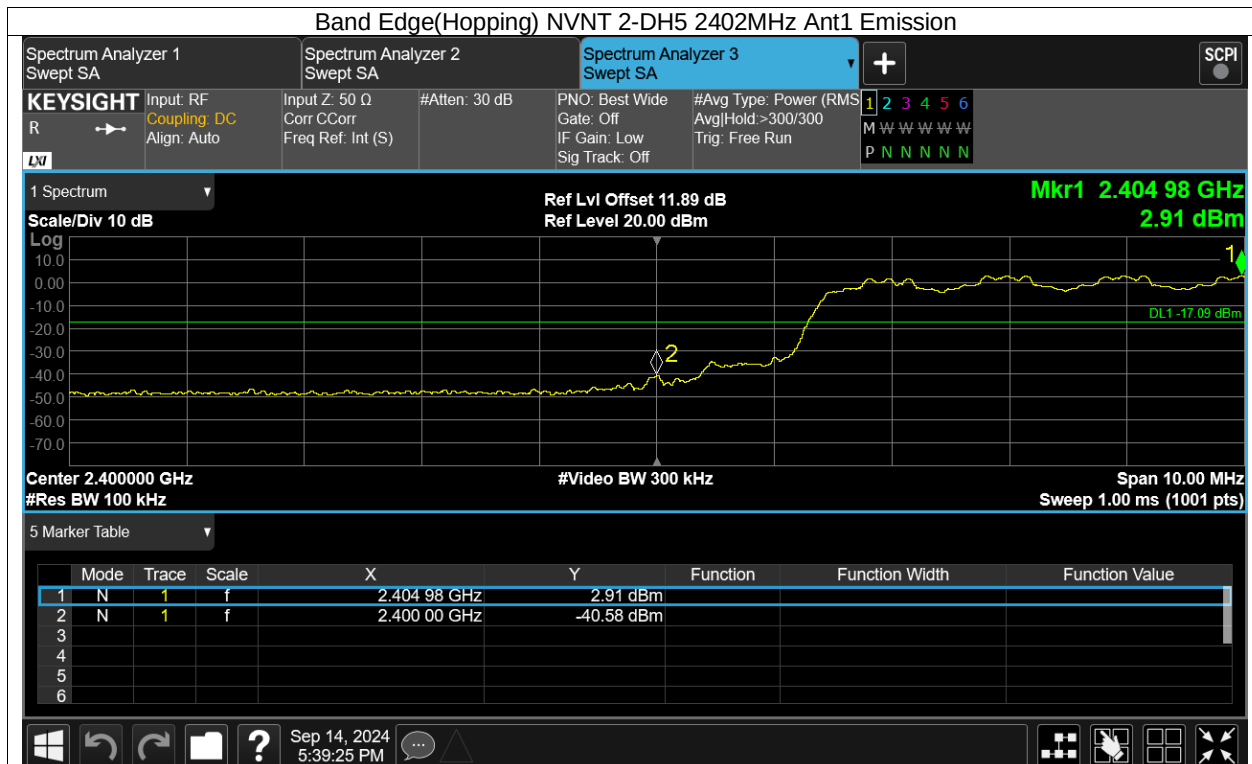


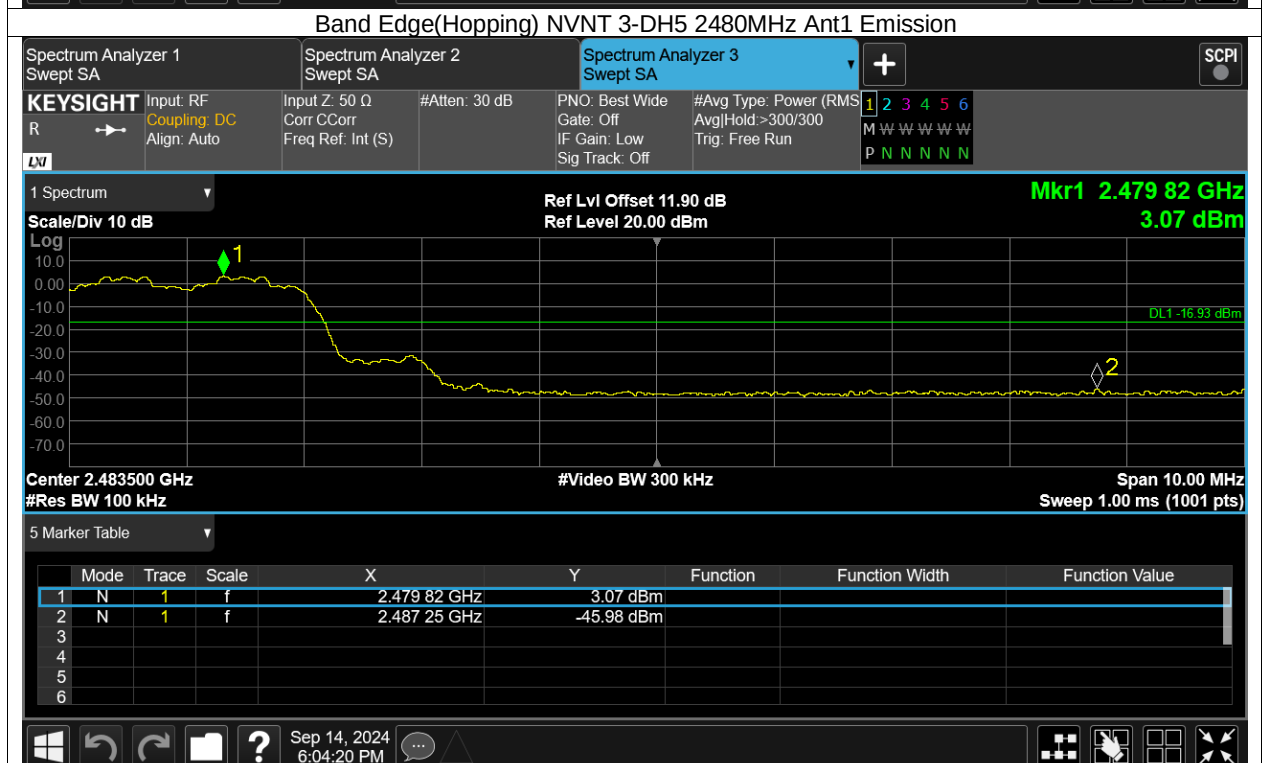
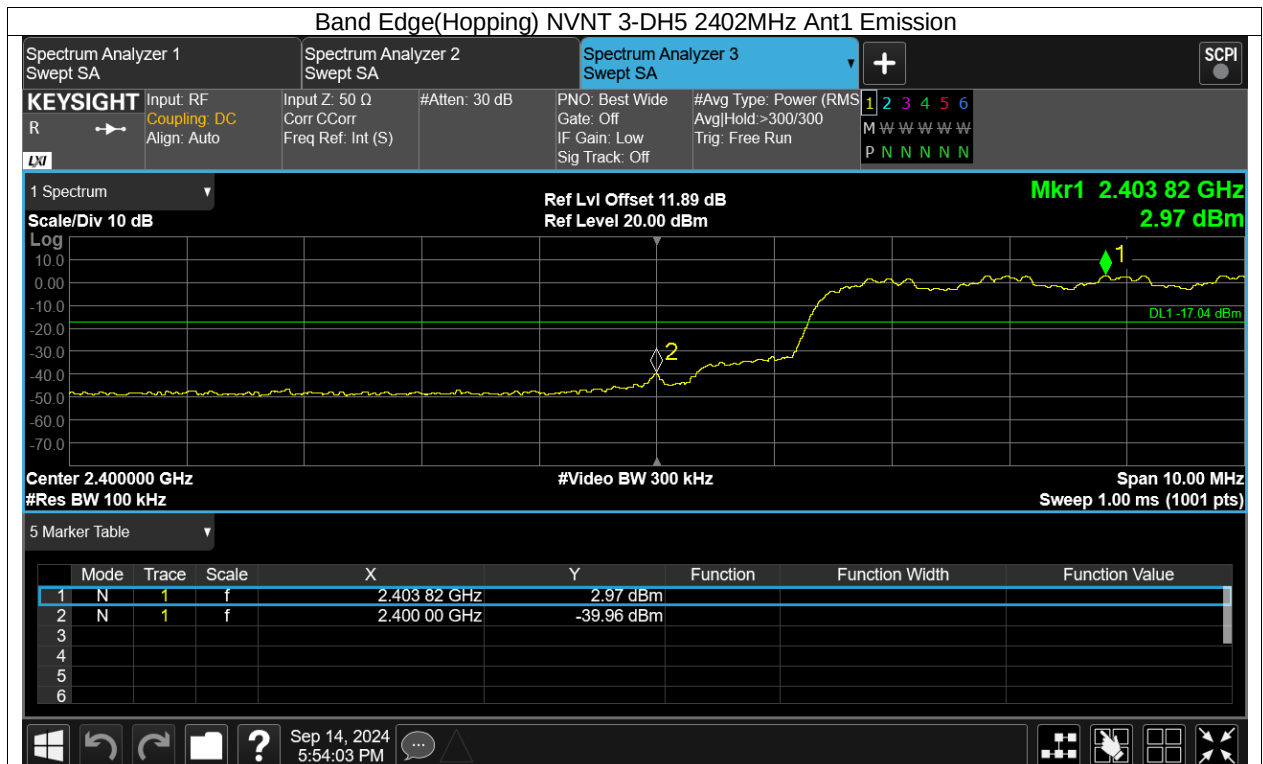


Band Edge (Hopping mode)

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-49.54	-20	Pass
NVNT	1-DH5	2480	Ant1	-51.49	-20	Pass
NVNT	2-DH5	2402	Ant1	-43.48	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.04	-20	Pass
NVNT	3-DH5	2402	Ant1	-42.92	-20	Pass
NVNT	3-DH5	2480	Ant1	-49.04	-20	Pass

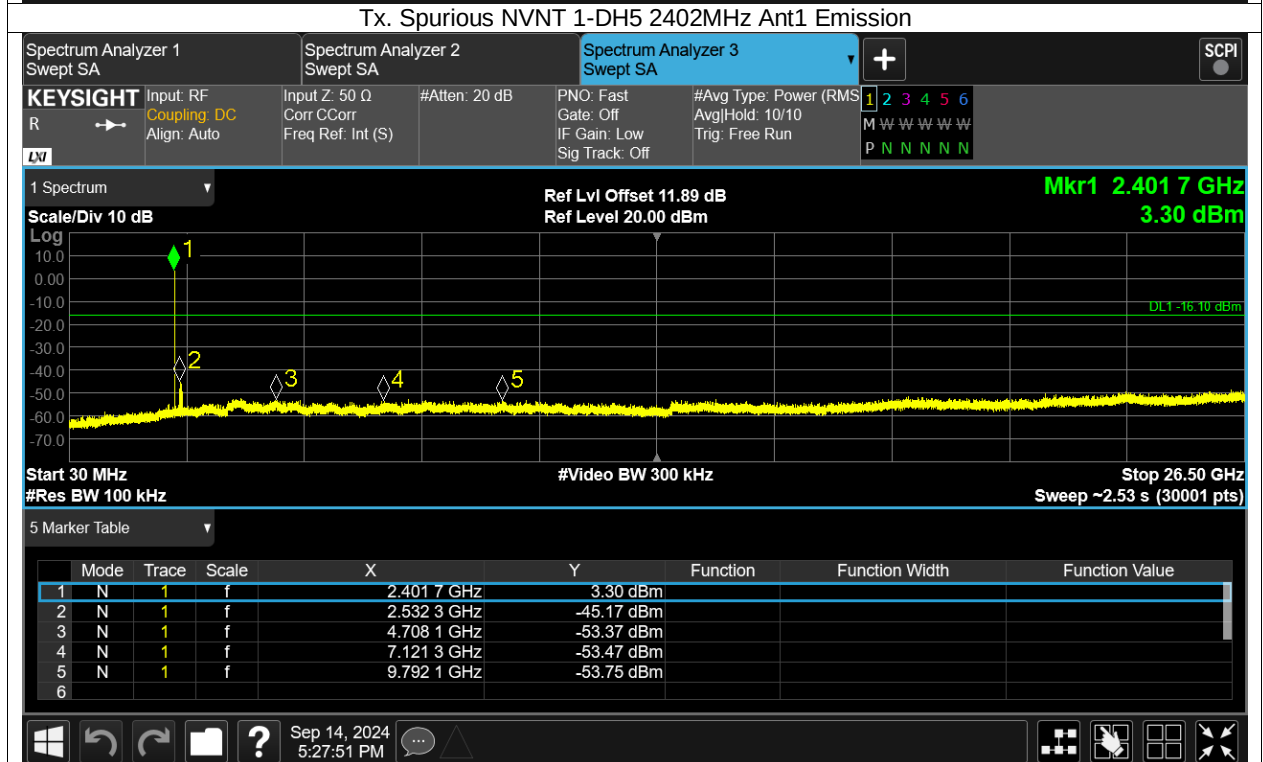
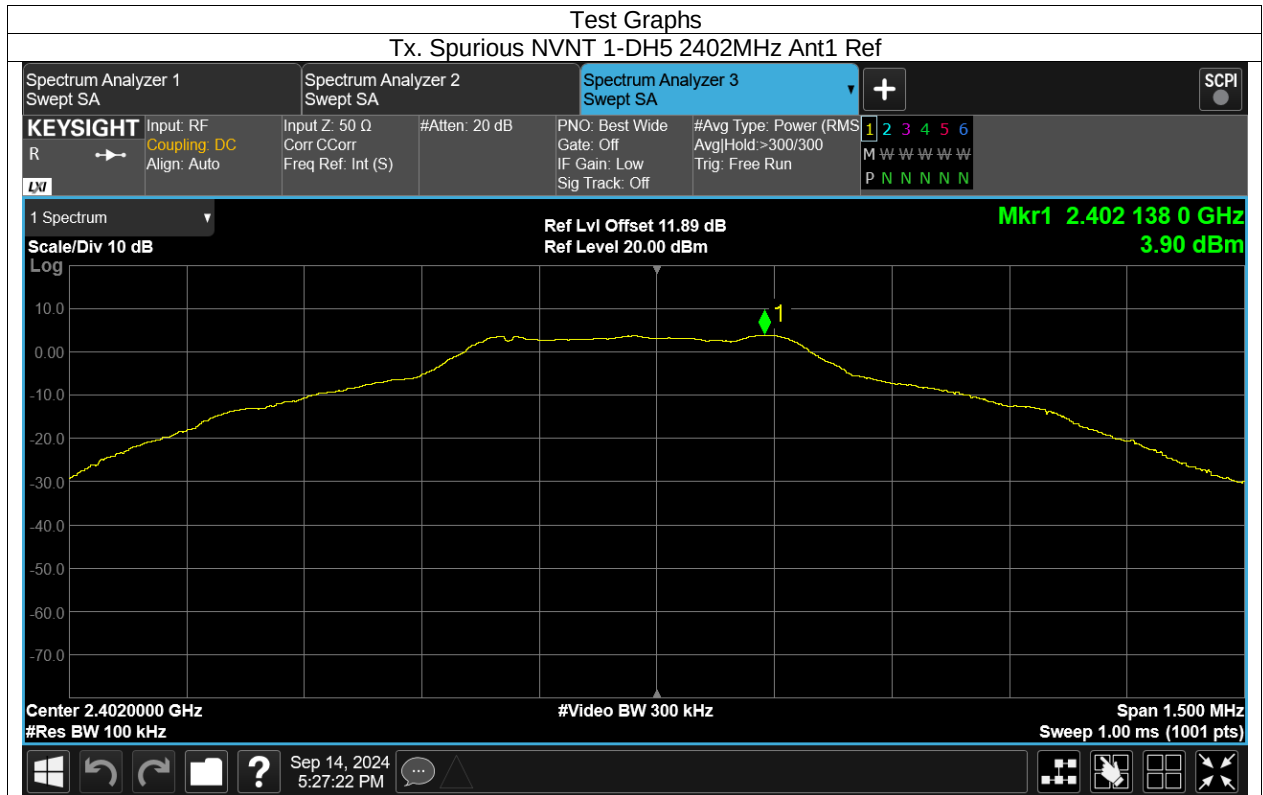


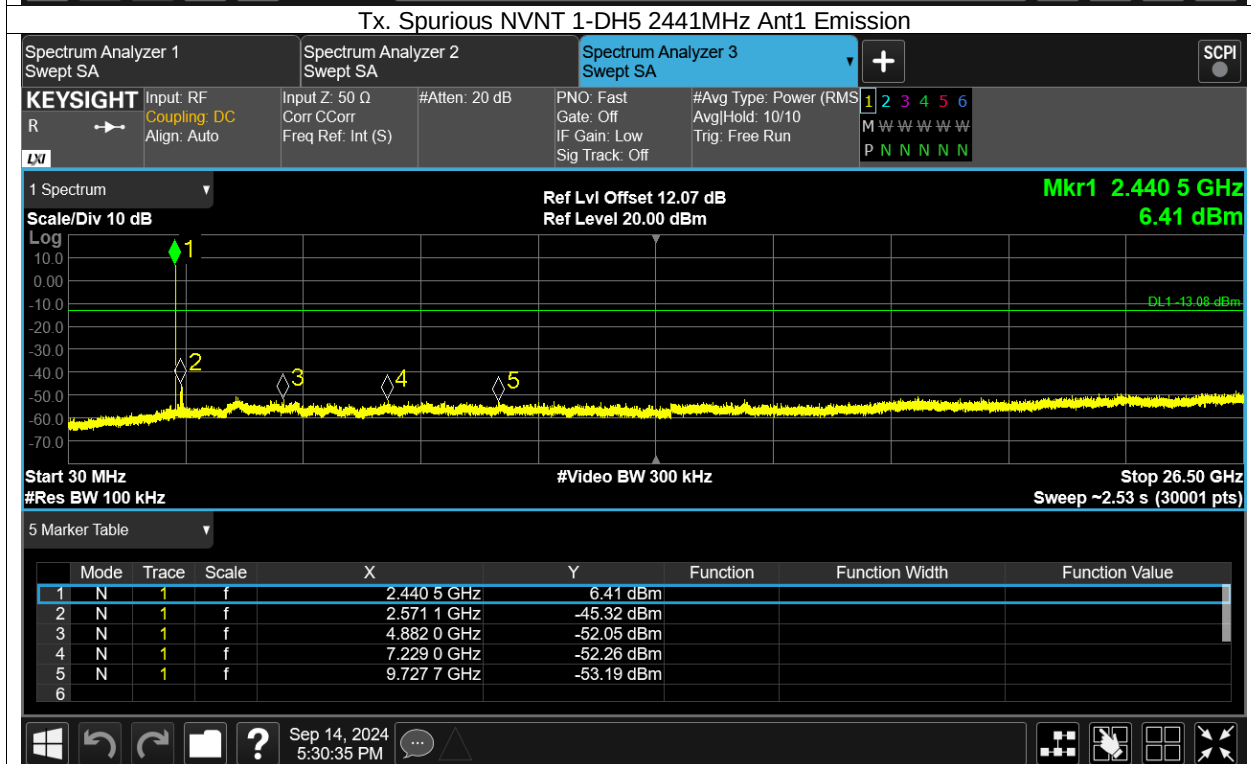
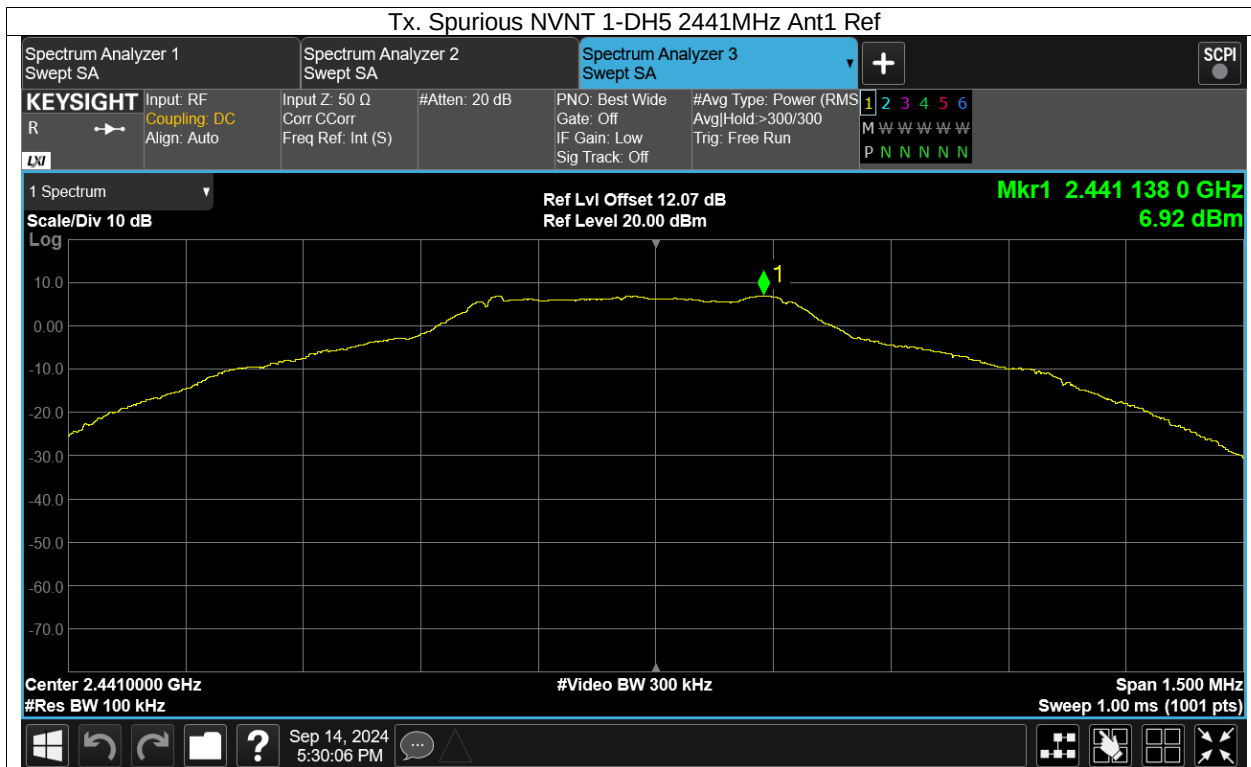


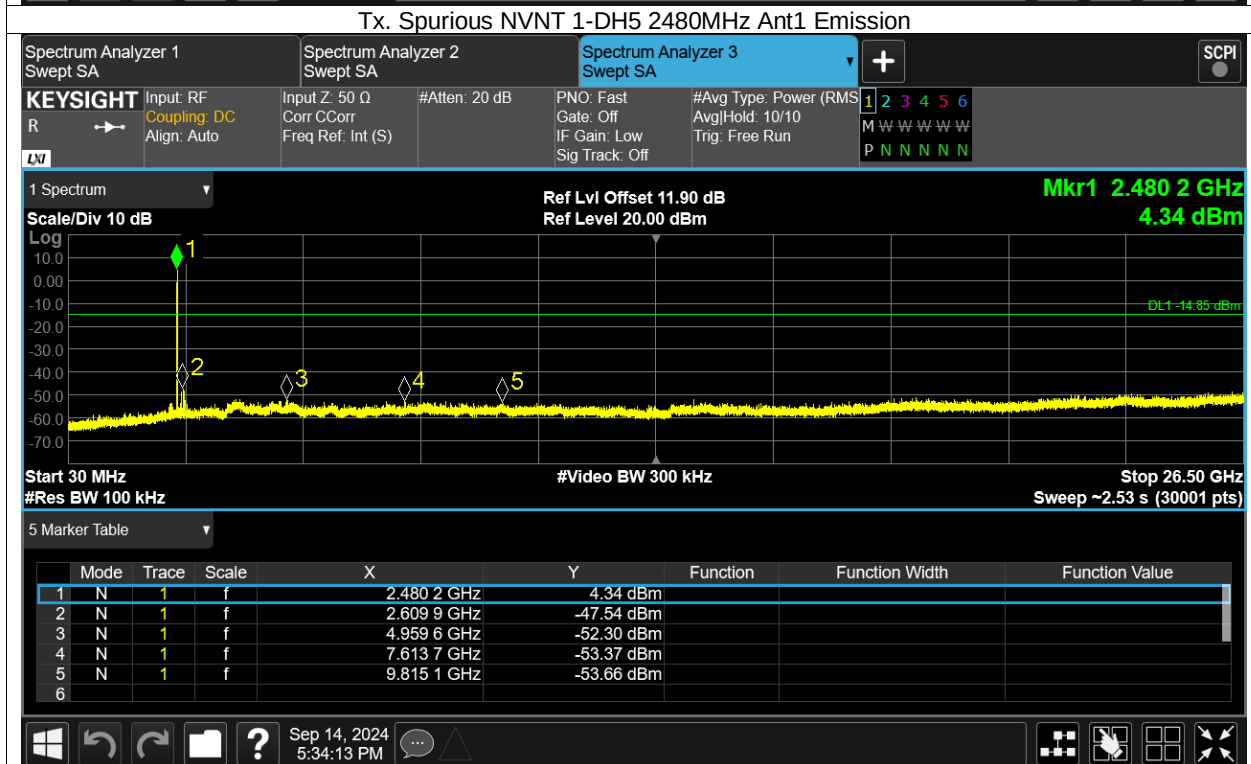
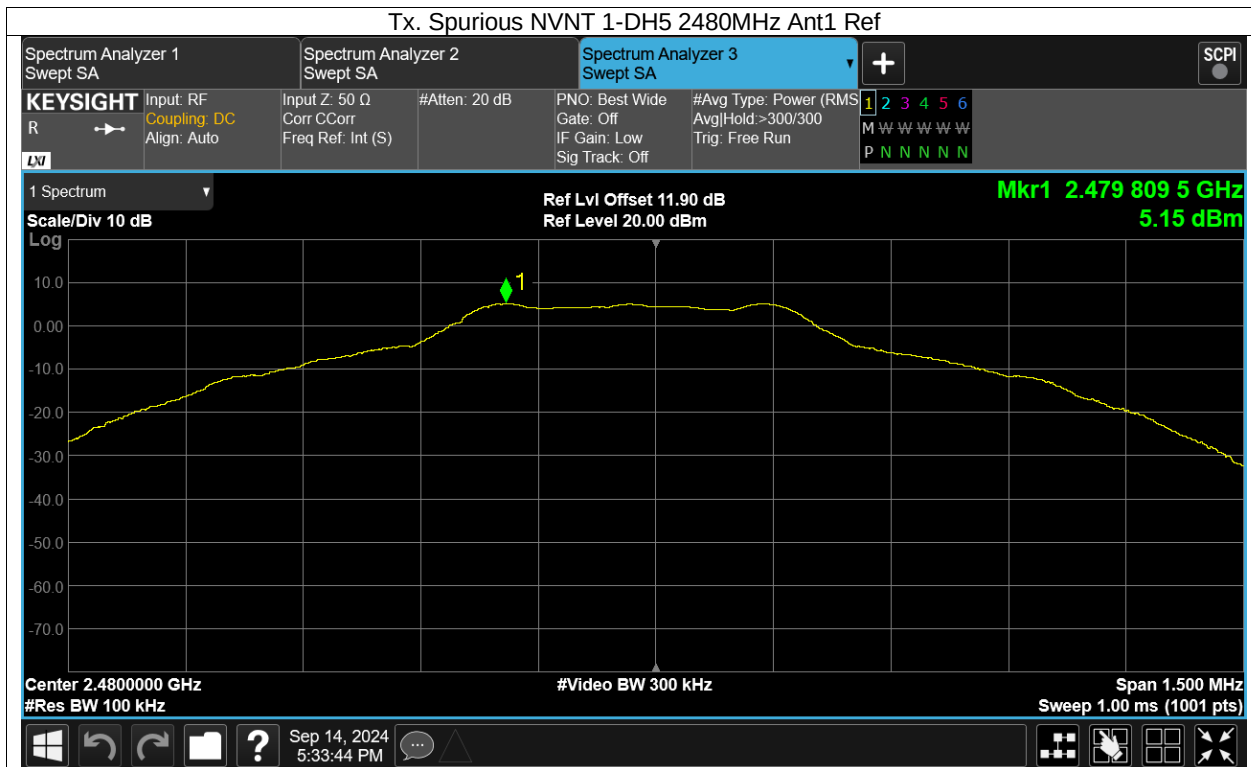


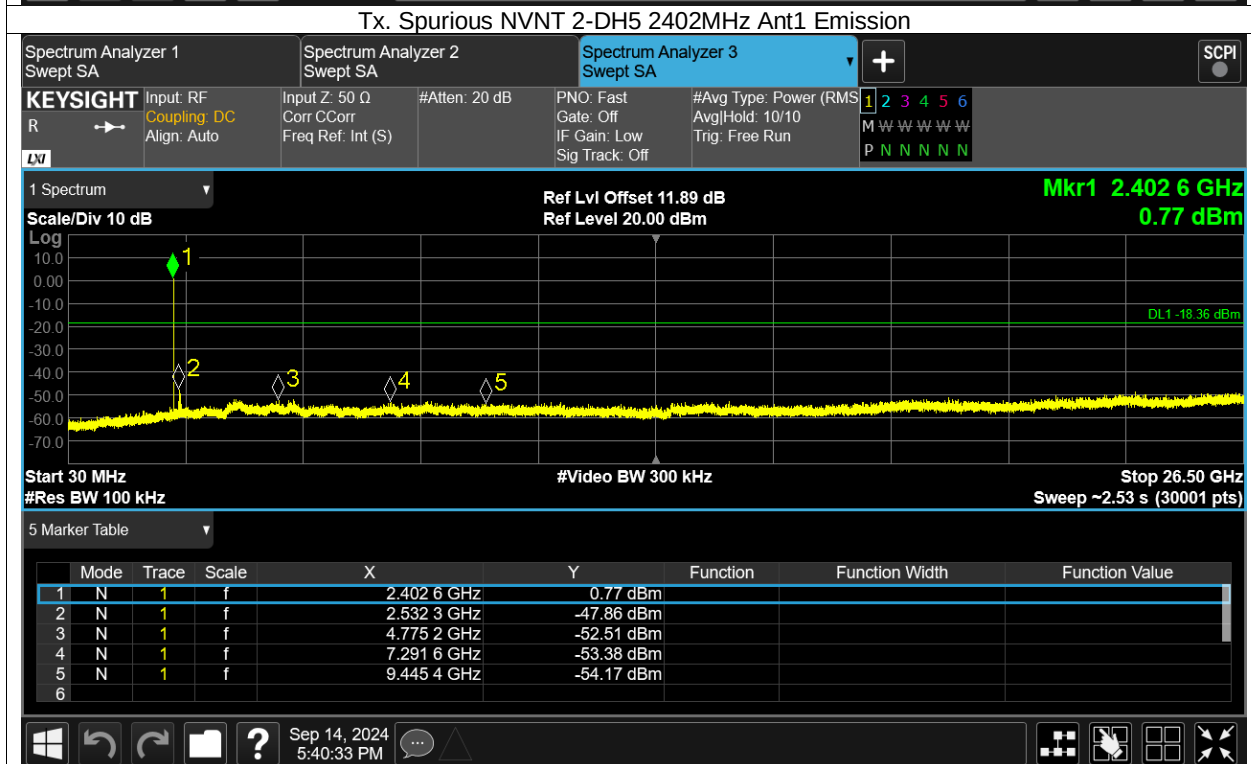
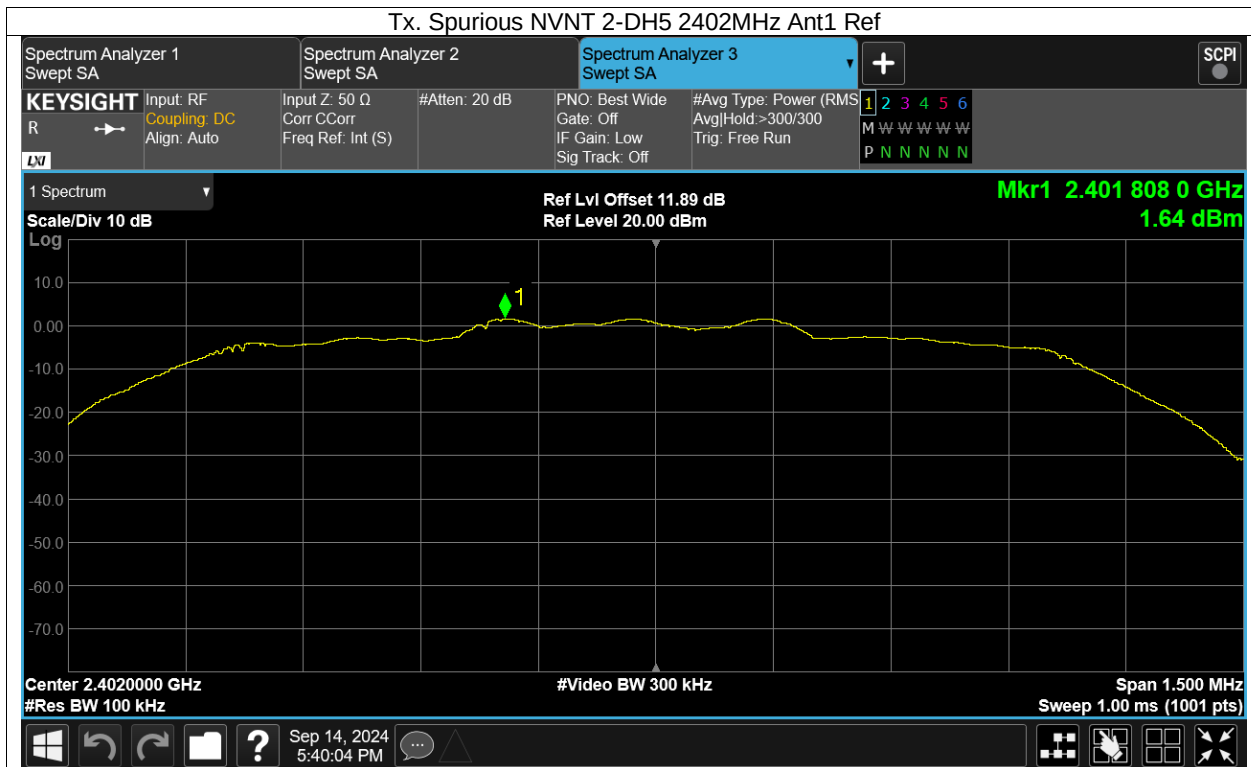
Conducted Spurious Emission

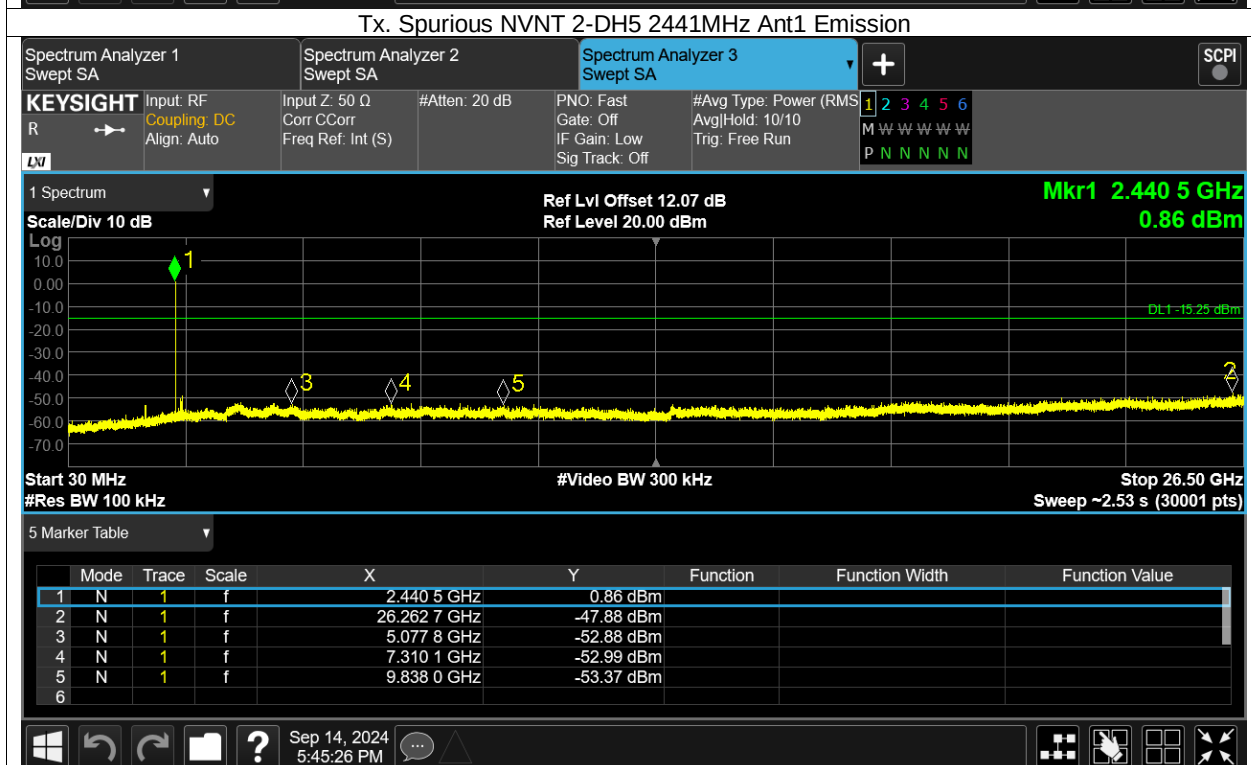
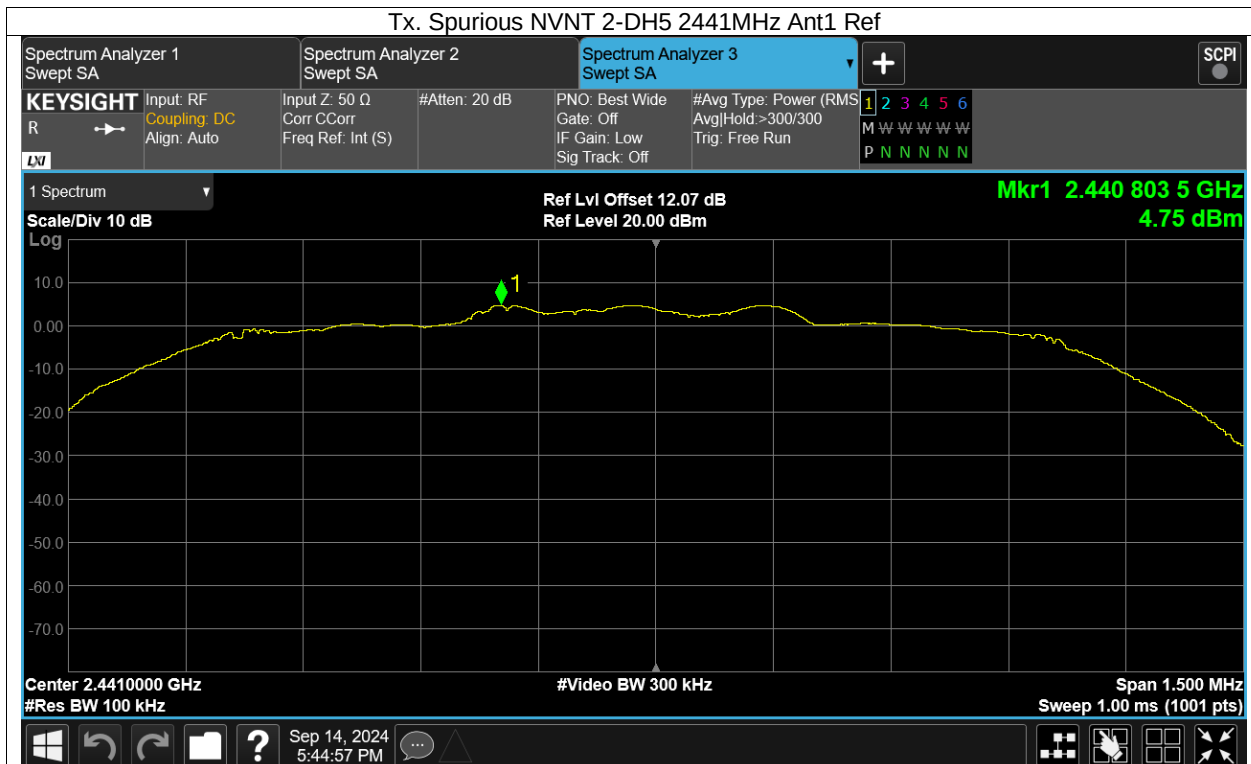
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-49.07	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.24	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.68	-20	Pass
NVNT	2-DH5	2402	Ant1	-49.5	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.63	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.82	-20	Pass
NVNT	3-DH5	2402	Ant1	-49.27	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.51	-20	Pass
NVNT	3-DH5	2480	Ant1	-51.72	-20	Pass

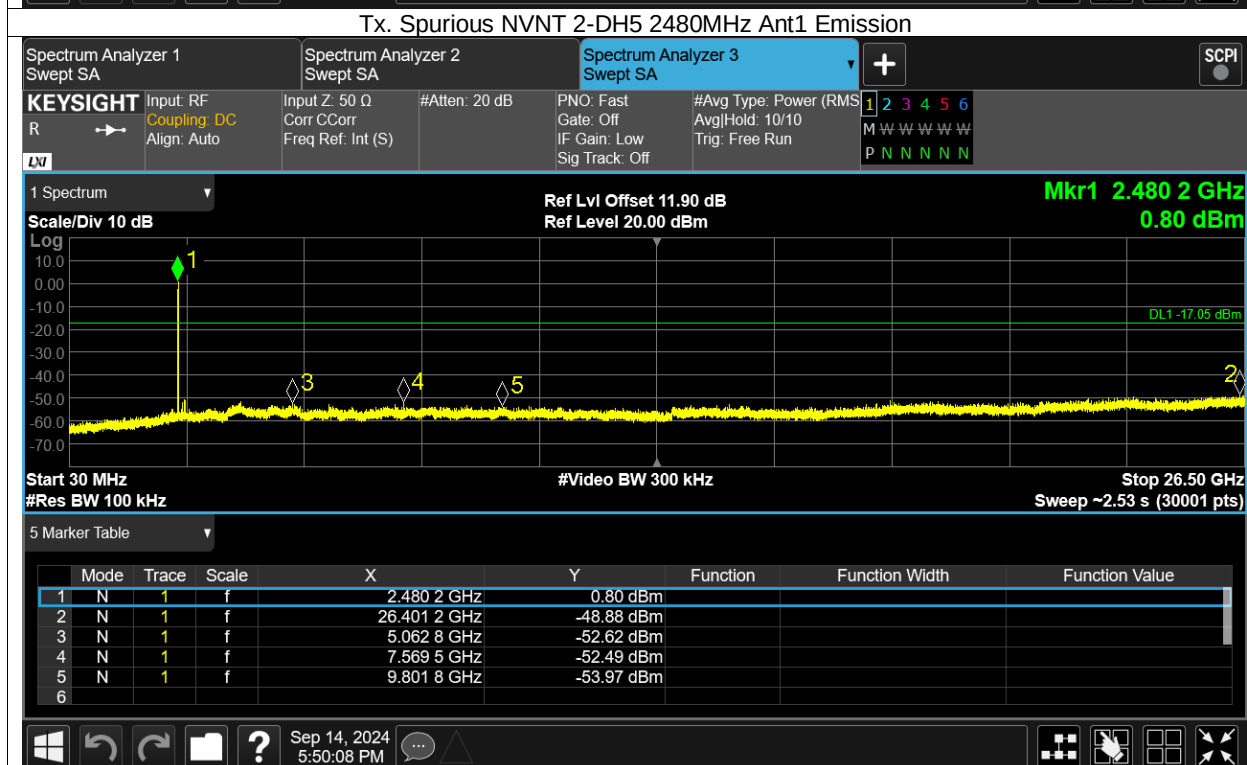
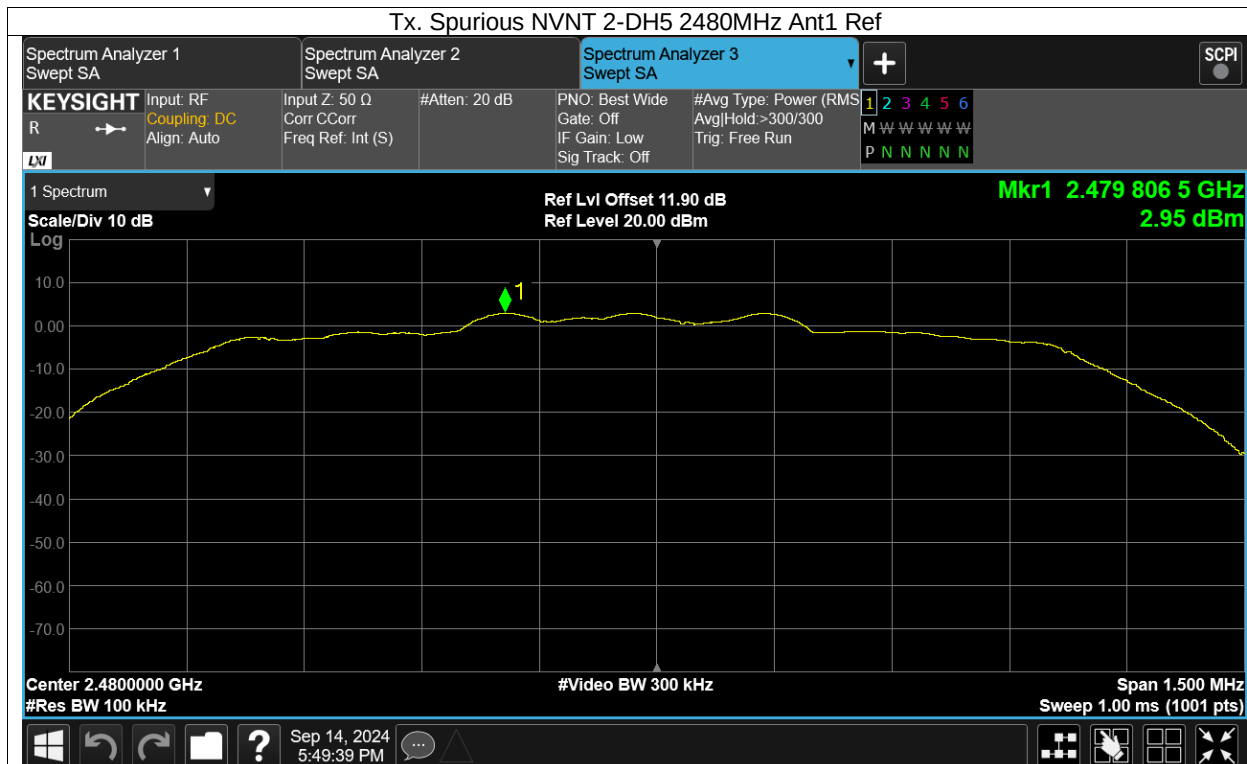




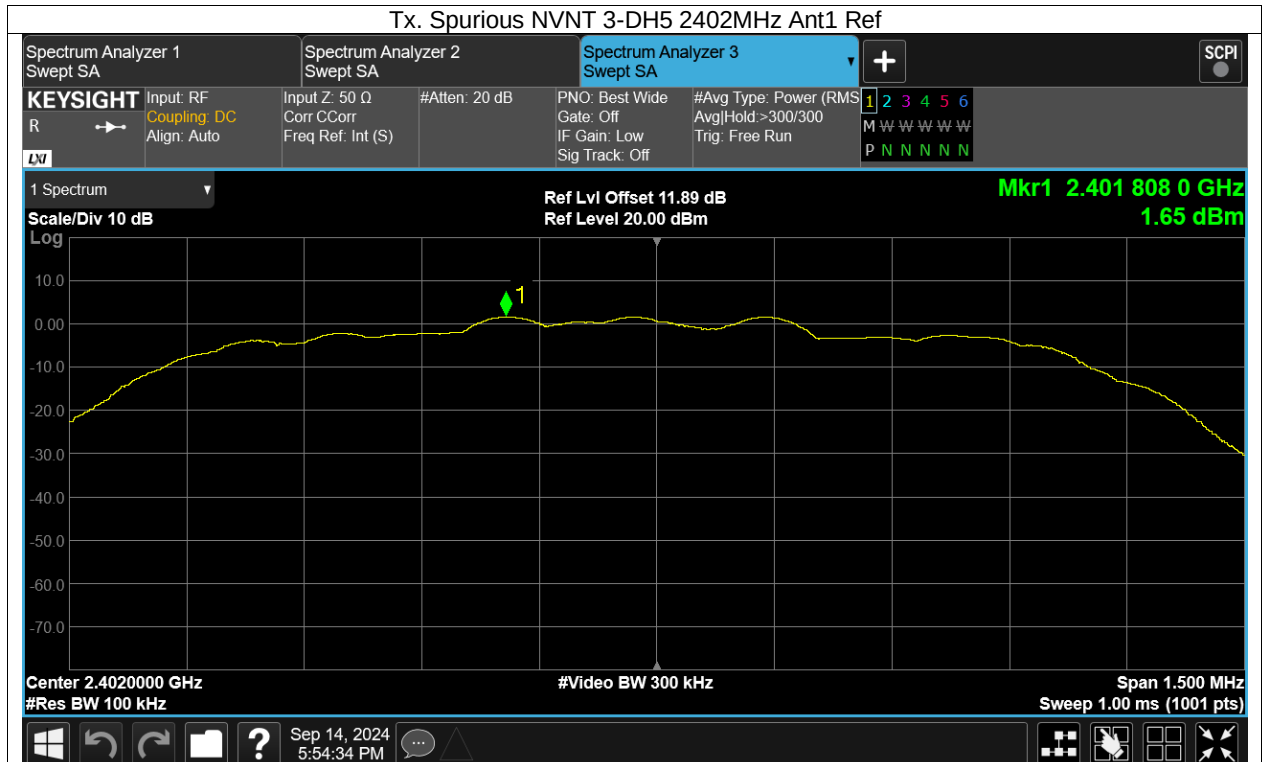




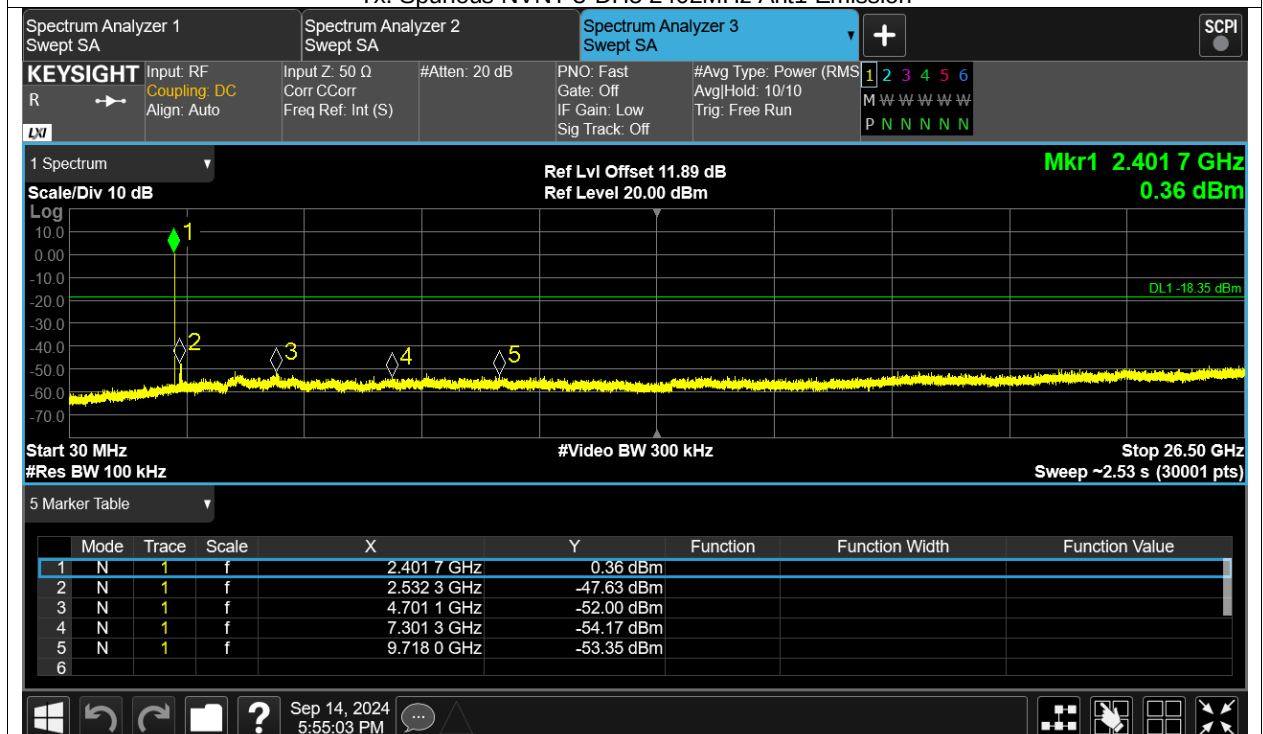


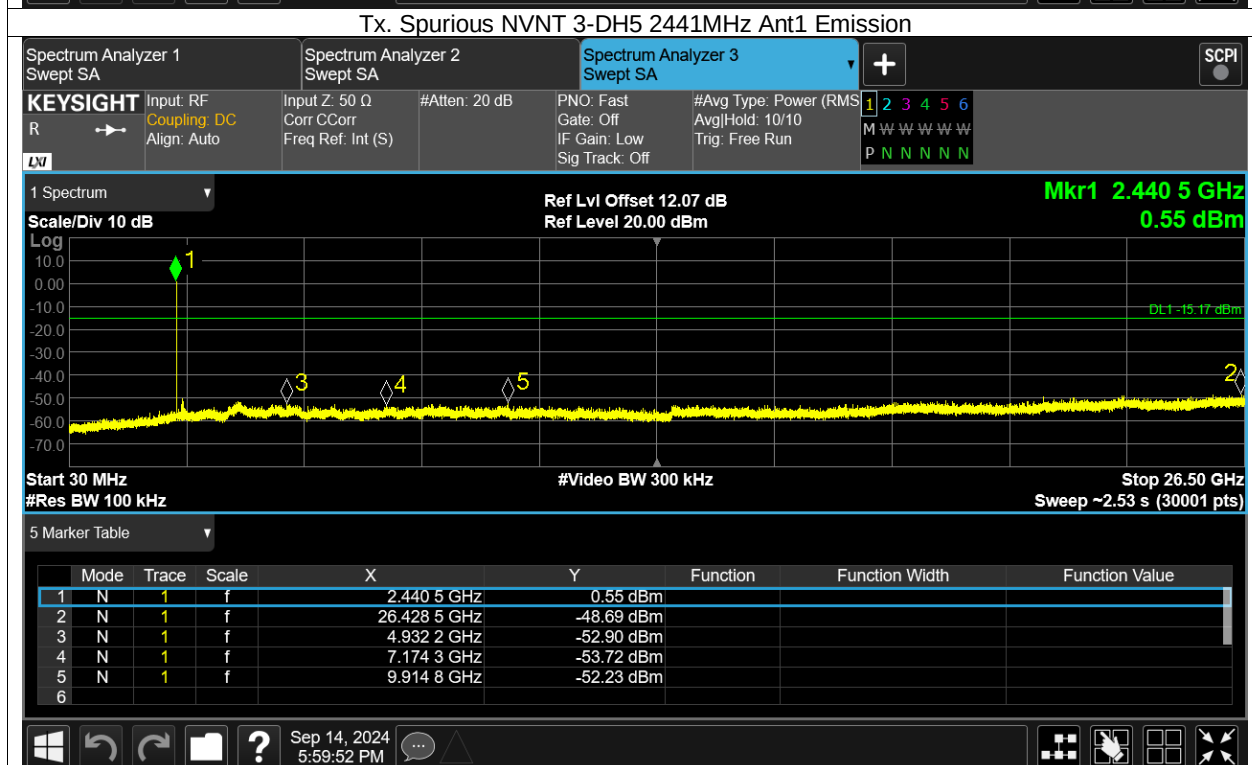


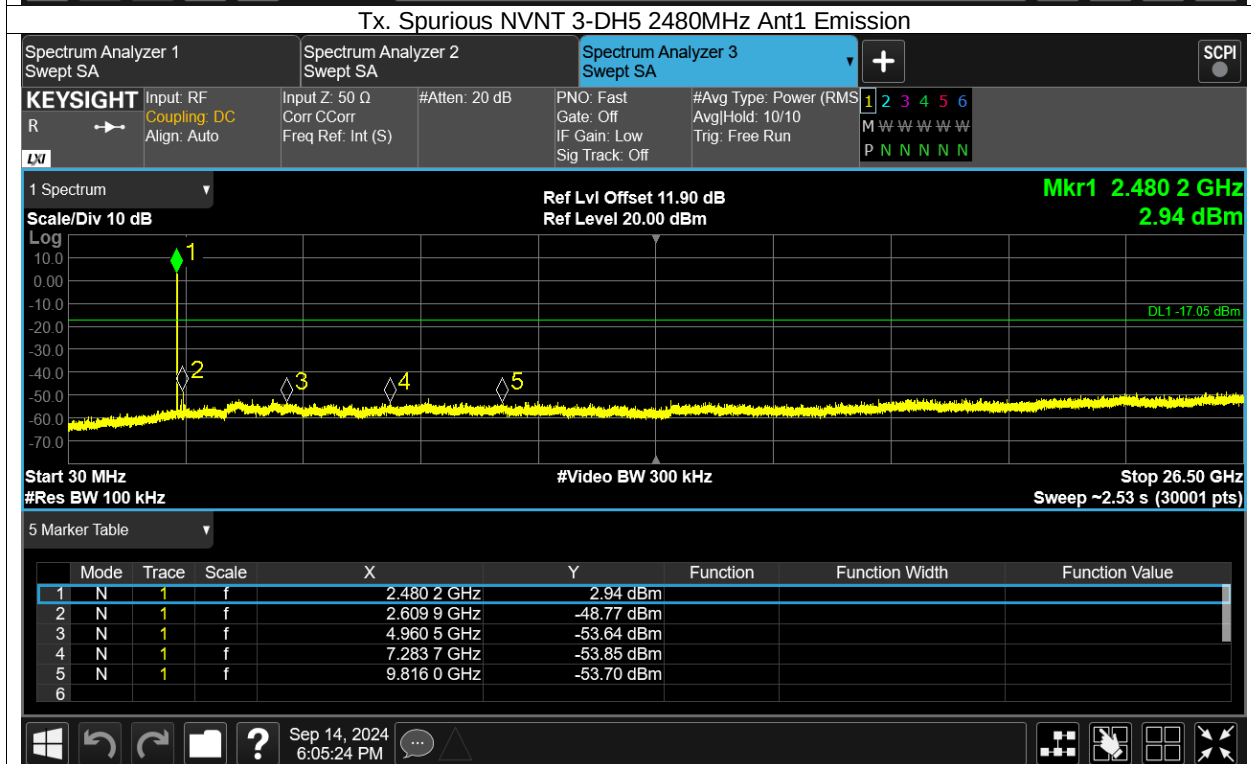
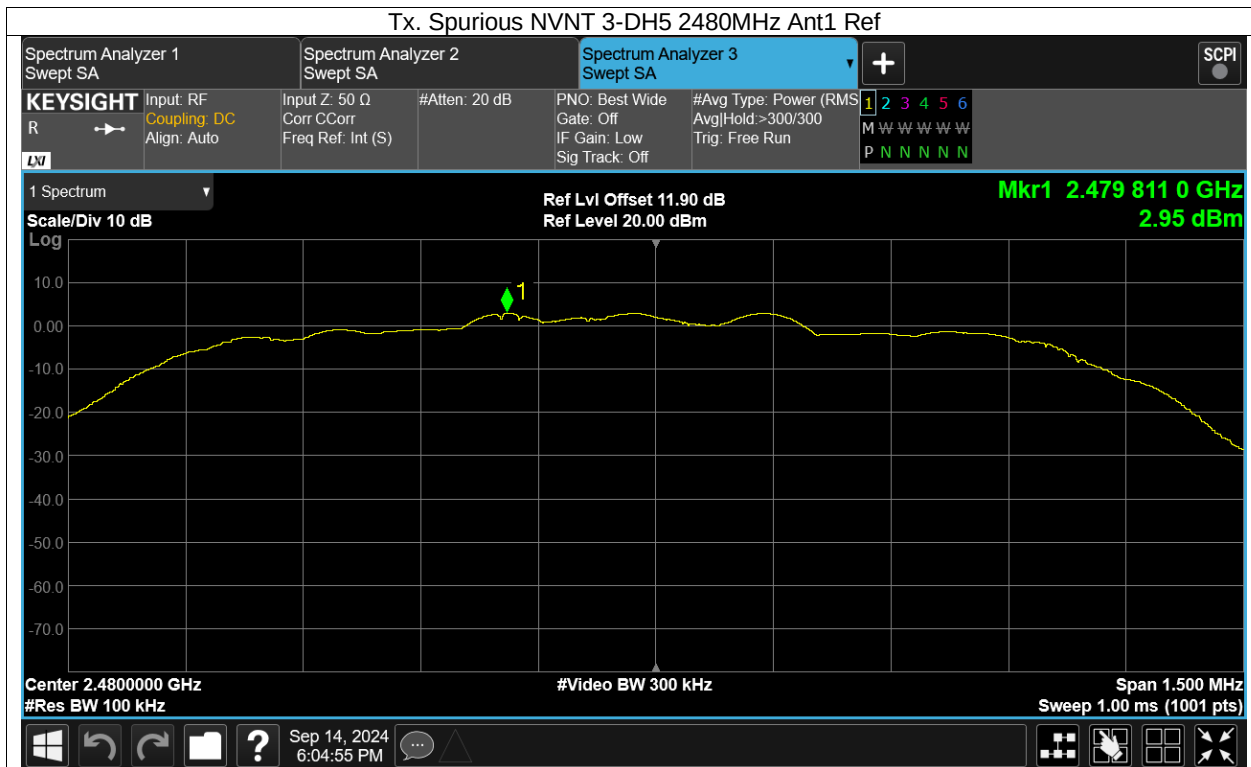
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission







Appendix A.7: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
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Fax: +86-769-2202 2799

Site: 3m Chamber

Limit: FCC_Part 15C_3m

EUT: Cay player

M/N: TBD

Mode: TX (BT)

Note: The worst case (GFSK Mid Channel)

Polarization: **Horizontal**

Power: DC 12V

Distance: 3m

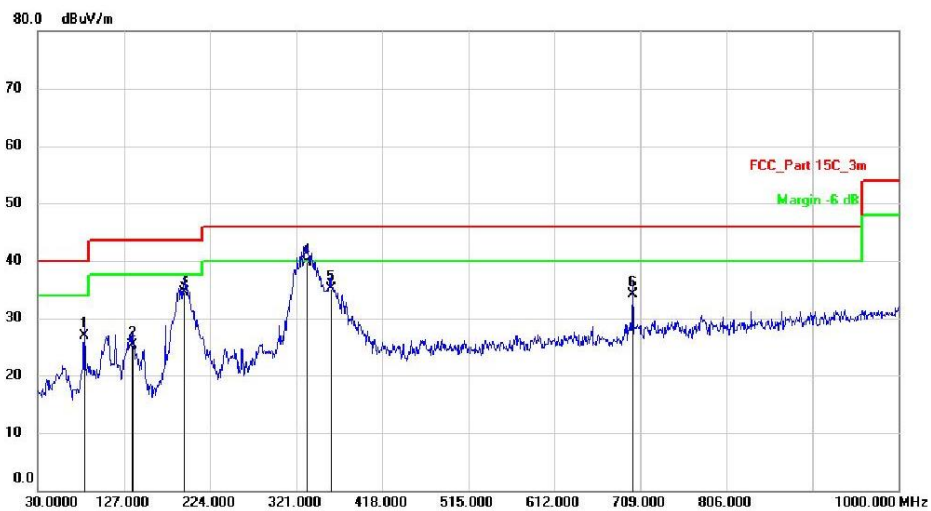
Temperature: 26

Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 7:50:07



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		82.3800	38.19	-11.27	26.92	40.00	-13.08	QP	
2		136.7000	36.12	-10.81	25.31	43.50	-18.19	QP	
3		194.9000	42.48	-7.91	34.57	43.50	-8.93	QP	
4	*	332.6400	44.21	-4.57	39.64	46.00	-6.36	QP	
5		359.8000	39.02	-4.01	35.01	46.00	-10.99	QP	
6		700.2700	31.92	2.17	34.09	46.00	-11.91	QP	

*:Maximum data x:Over limit !:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444
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Fax: +86-769-2202 2799

Site: 3m Chamber

Polarization: **Vertical**

Temperature: 26

Limit: FCC_Part 15C_3m

Power: DC 12V

Humidity: 47 %

EUT: Cay player

Distance: 3m

M/N: TBD

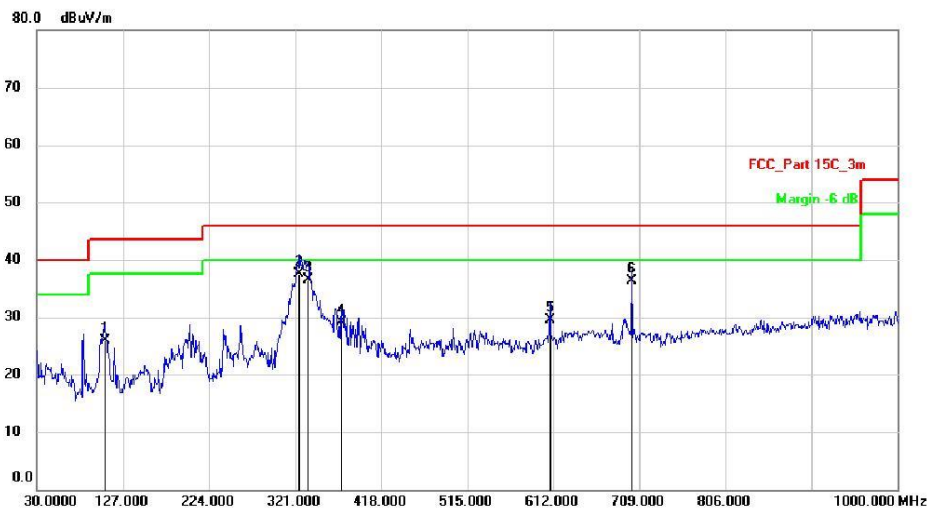
Mode: TX (BT)

Note: The worst case (GFSK Mid Channel)

Radiated Emission Measurement

Date: 2024/9/30

Time: 7:56:09



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		106.6300	35.60	-9.72	25.88	43.50	-17.62	QP	
2	*	325.8500	43.26	-5.78	37.48	46.00	-8.52	QP	
3		335.5500	41.93	-5.48	36.45	46.00	-9.55	QP	
4		373.3800	33.94	-4.84	29.10	46.00	-16.90	QP	
5		608.1200	29.66	-0.19	29.47	46.00	-16.53	QP	
6		700.2700	34.08	2.17	36.25	46.00	-9.75	QP	

*:Maximum data x:Over limit !:over margin

(Reference Only)

1GHz - 18GHz



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Site: 3m Chamber

Polarization: **Horizontal**

Temperature: 26

Limit: FCC_15.247_3m_Peak

Power: DC 12V

Humidity: 47 %

EUT: Cay player

Distance: 3m

M/N: TBD

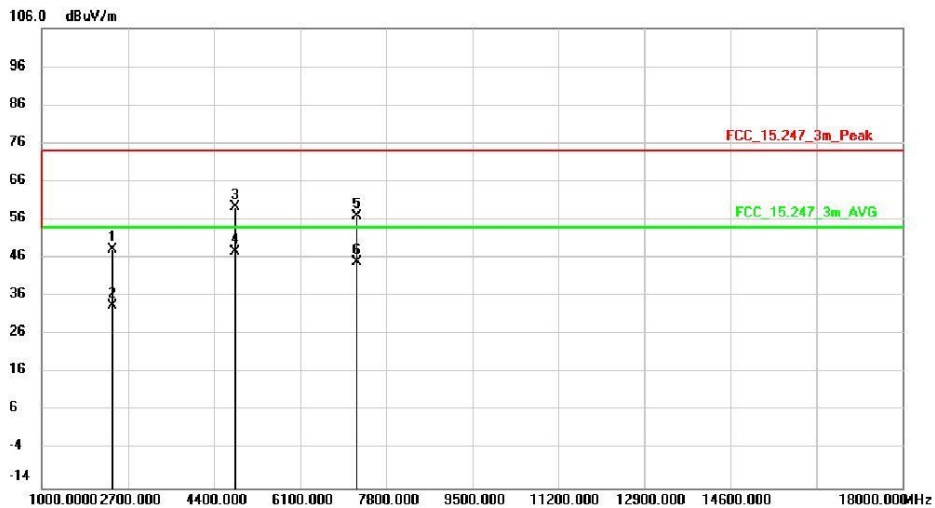
Mode: TX (BT GFSK)

Note: Low

Radiated Emission Measurement

Date: 2024/9/30

Time: 4:36:23



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.000	48.30	0.09	48.39	74.00	-25.61	peak	
2	2390.000	33.51	0.09	33.60	54.00	-20.40	AVG	
3	4804.000	53.02	6.30	59.32	74.00	-14.68	peak	
4 *	4804.000	41.21	6.30	47.51	54.00	-6.49	AVG	
5	7206.000	46.49	10.44	56.93	74.00	-17.07	peak	
6	7206.000	34.42	10.44	44.86	54.00	-9.14	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)



Dongguan NTC Co., Ltd.
Tel: +86-769-2202 2444 Fax: +86-769-2202 2799
Web: www.ntc-c.com

Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BT GFSK)
Note: Low

Polarization: **Vertical**
Power: DC 12V
Distance: 3m

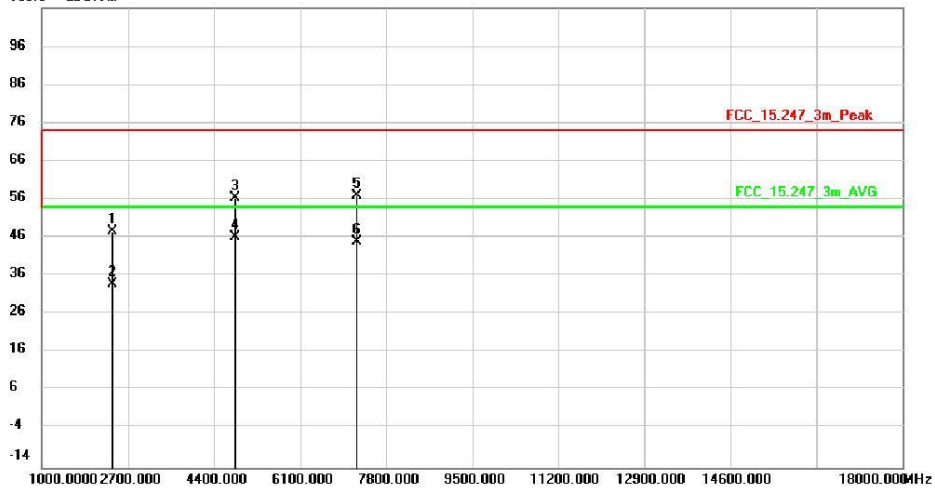
Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 4:47:25

106.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	47.67	0.09	47.76	74.00	-26.24	peak	
2		2390.000	33.83	0.09	33.92	54.00	-20.08	AVG	
3		4804.000	50.09	6.30	56.39	74.00	-17.61	peak	
4	*	4804.000	39.95	6.30	46.25	54.00	-7.75	AVG	
5		7206.000	46.51	10.44	56.95	74.00	-17.05	peak	
6		7206.000	34.58	10.44	45.02	54.00	-8.98	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 单模BTData :#2

Page: 1

Engineer Signature:

Sean



Dongguan NTC Co., Ltd.
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Site: 3m Chamber

Limit: FCC_15.247_3m_Peak

EUT: Cay player

M/N: TBD

Mode: TX (BT GFSK)

Note: Mid

Polarization: **Horizontal**

Power: DC 12V

Distance: 3m

Temperature: 26

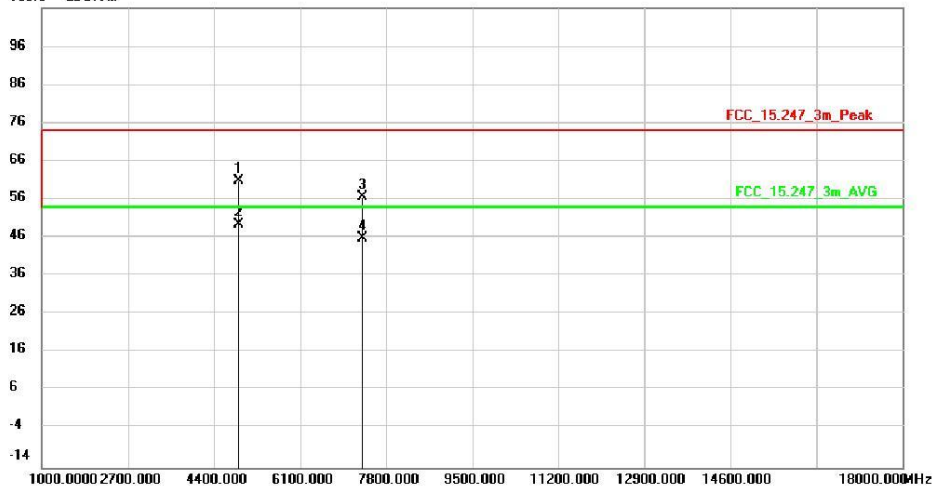
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 4:56:37

106.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector Comment
1		4882.000	54.18	6.60	60.78	74.00	-13.22	peak
2	*	4882.000	42.85	6.60	49.45	54.00	-4.55	AVG
3		7323.000	46.18	10.55	56.73	74.00	-17.27	peak
4		7323.000	35.27	10.55	45.82	54.00	-8.18	AVG

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 单模BTData :#3

Page: 1

Engineer Signature:

Sean



Dongguan NTC Co., Ltd.
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Web: www.ntc-c.com

Site: 3m Chamber
Limit: FCC_15.247_3m_Peak
EUT: Cay player
M/N: TBD
Mode: TX (BT GFSK)
Note: Mid

Polarization: **Vertical**
Power: DC 12V
Distance: 3m

Temperature: 26
Humidity: 47 %

Radiated Emission Measurement

Date: 2024/9/30

Time: 5:08:13

106.0 dBuV/m



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector	Comment
1		4882.000	49.72	6.60	56.32	74.00	-17.68	peak	
2	*	4882.000	42.02	6.60	48.62	54.00	-5.38	AVG	
3		7323.000	46.27	10.55	56.82	74.00	-17.18	peak	
4		7323.000	35.72	10.55	46.27	54.00	-7.73	AVG	

*:Maximum data x:Over limit !:over margin

(Reference Only)

File :TBD 单模BTData :#4

Page: 1

Engineer Signature: Sean