

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Speaker

Test Model: Slapstik V2

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

A.1 -20dB Bandwidth

Test Result

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.021	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.012	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.9303	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.322	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.319	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.275	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.302	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.252	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.249	N/A	Pass

Note: offset=System attenuation +cable loss

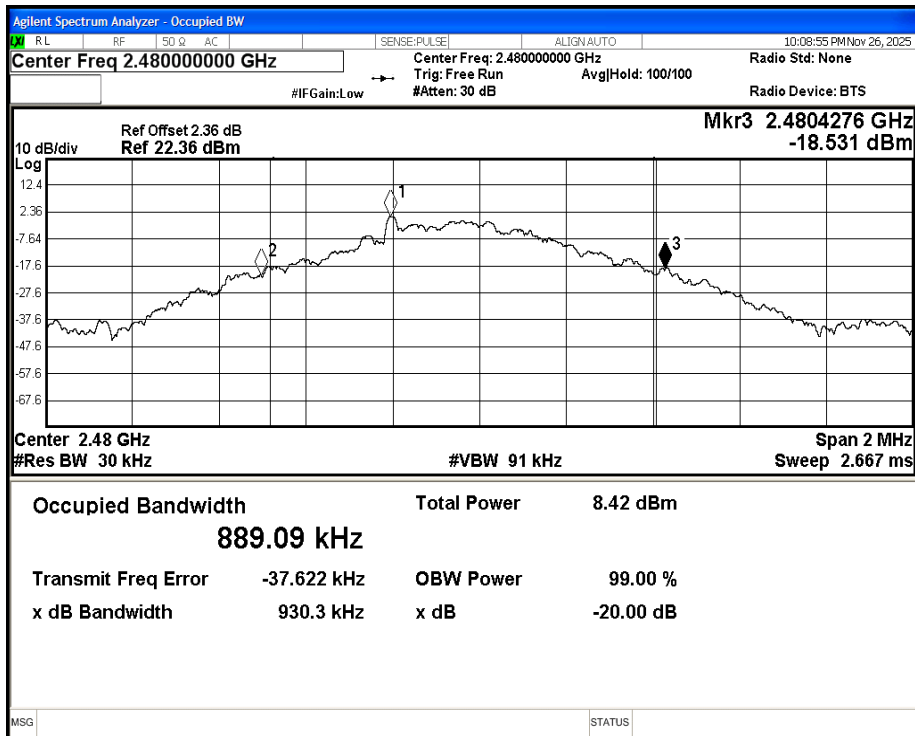
Test Graphs



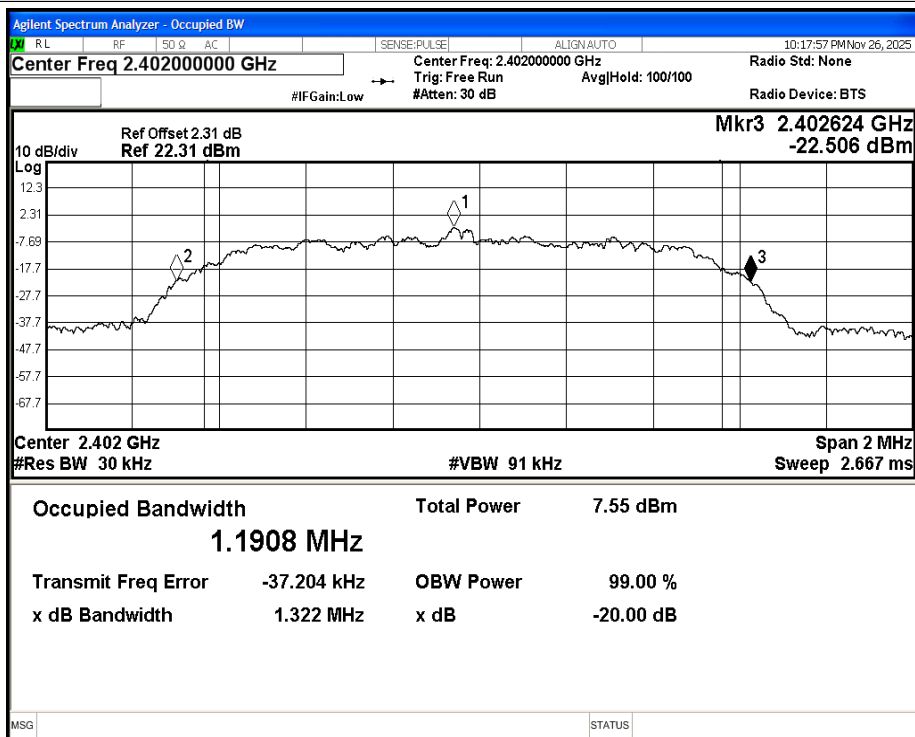
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



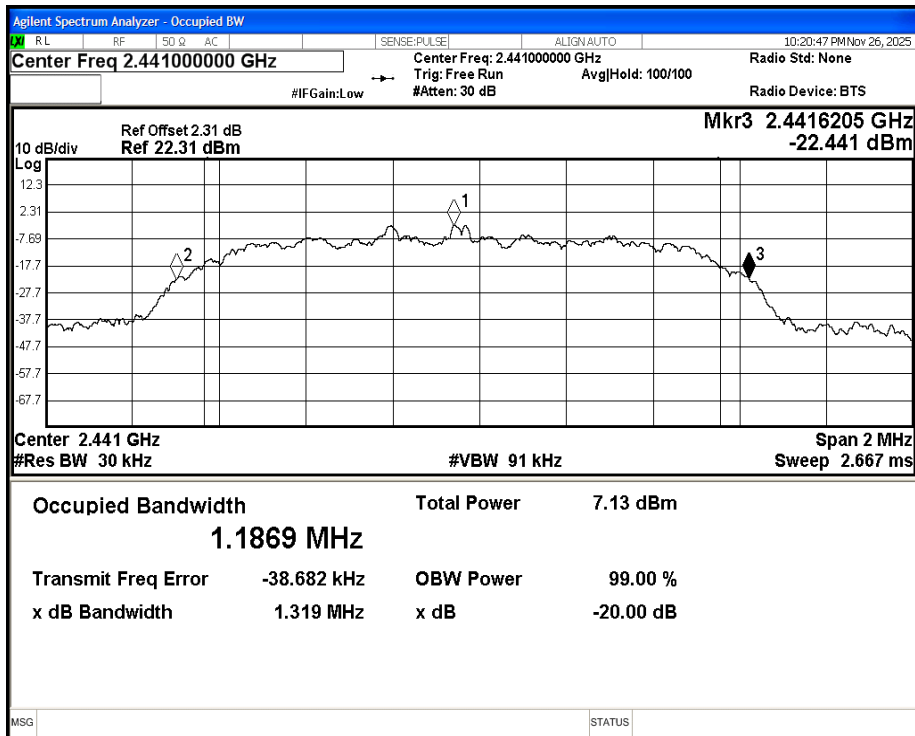
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



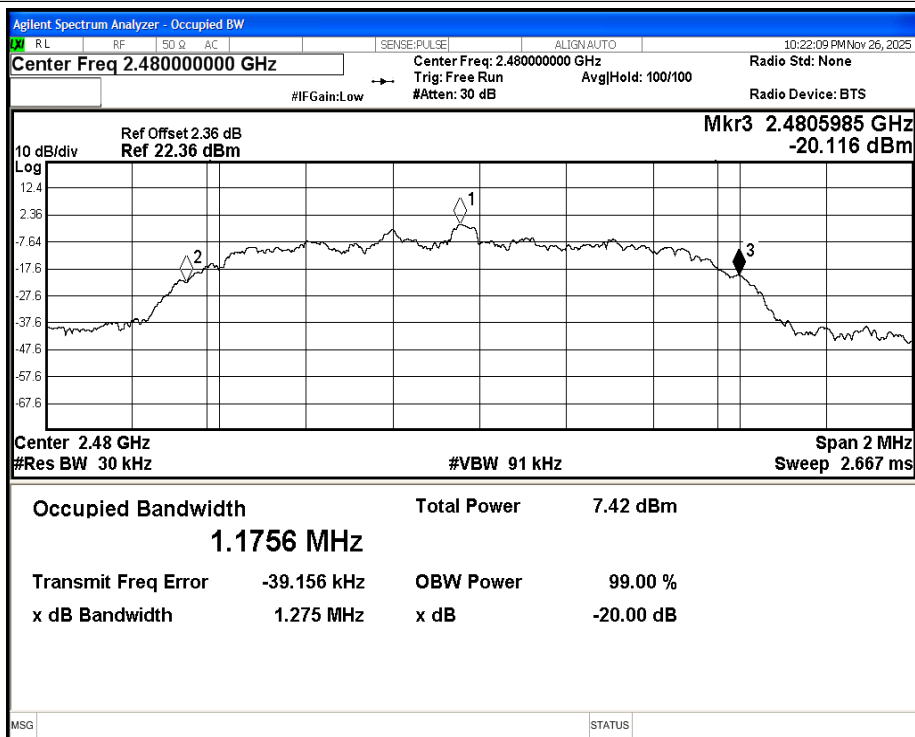
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



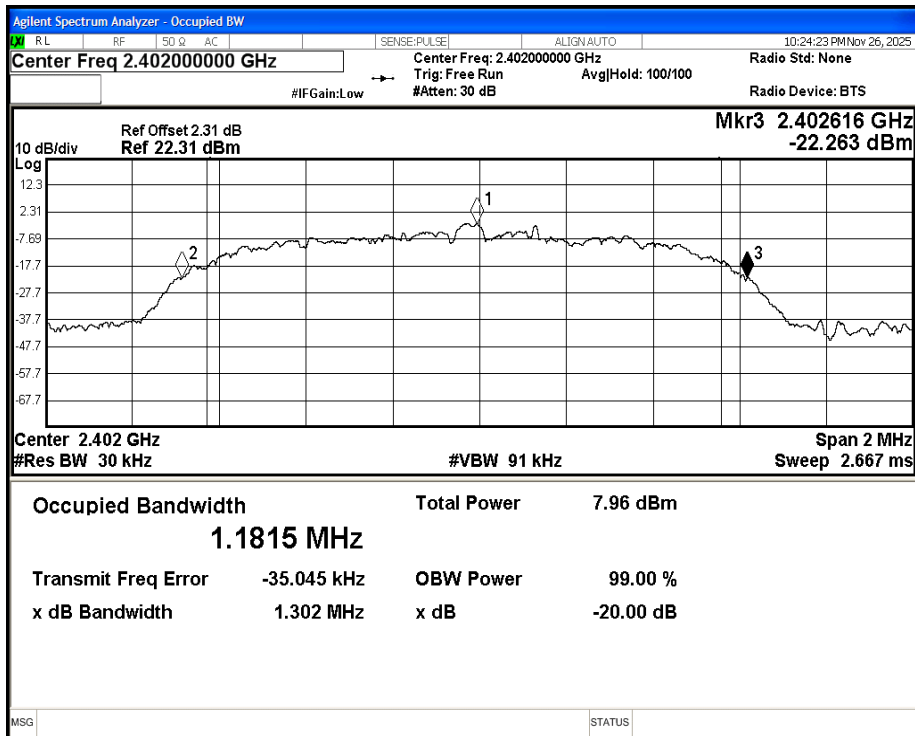
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



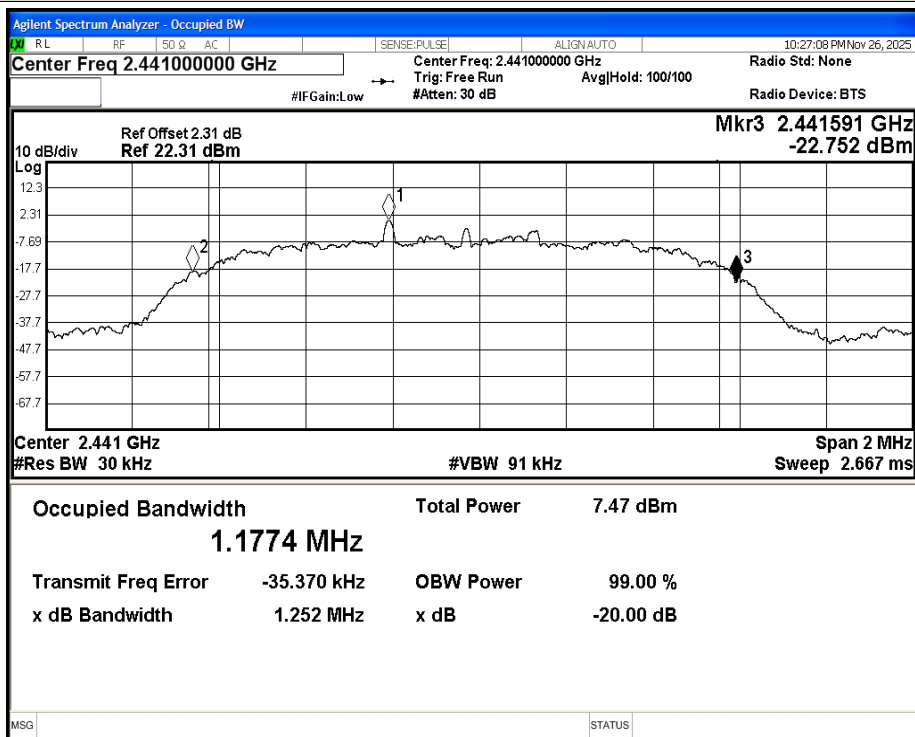
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



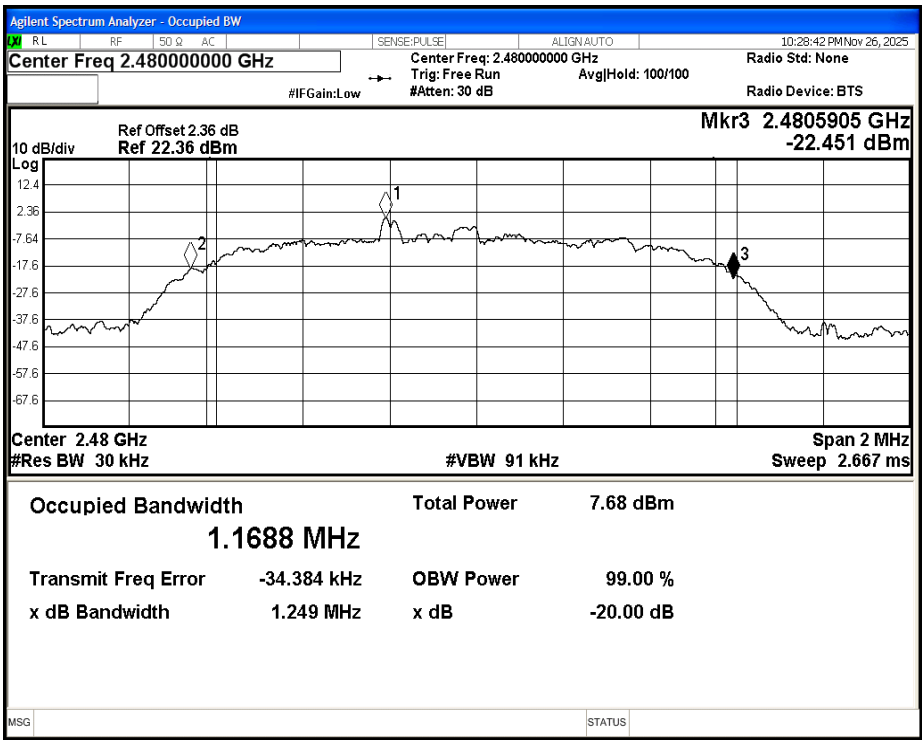
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

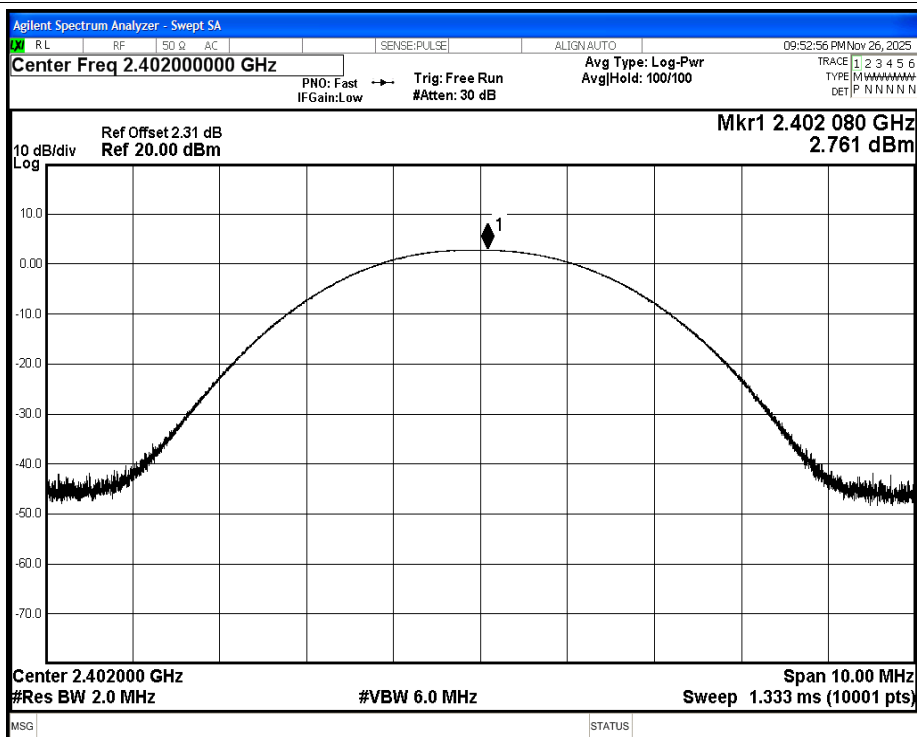
A.2 Maximum Peak Conducted Output Power

Test Result

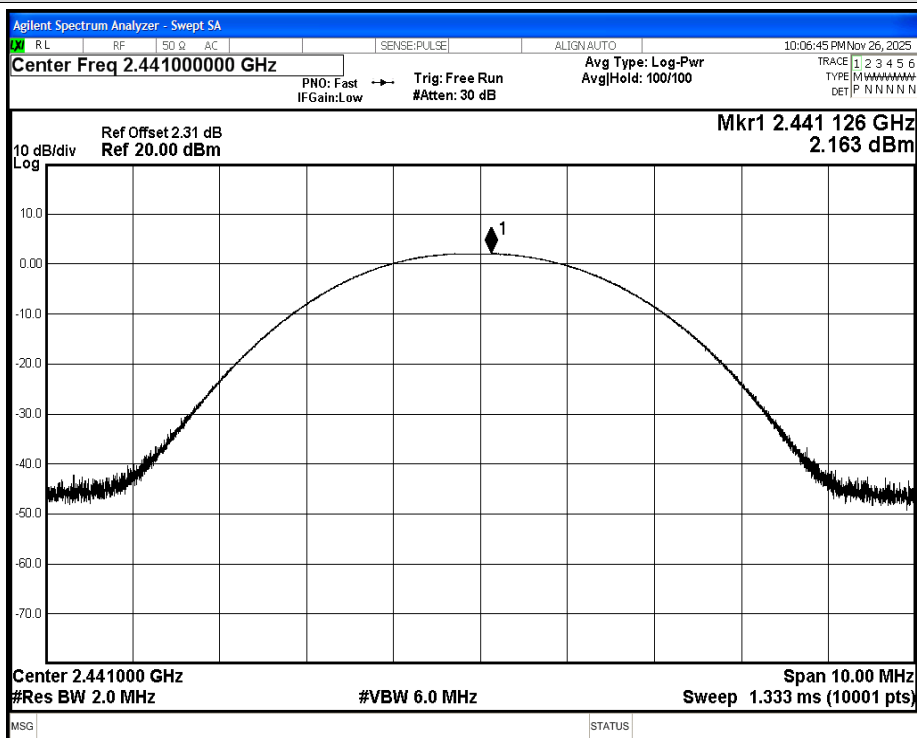
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.76	30	Pass
NVNT	1-DH5	2441	Ant1	2.16	30	Pass
NVNT	1-DH5	2480	Ant1	2.03	30	Pass
NVNT	2-DH5	2402	Ant1	3.13	30	Pass
NVNT	2-DH5	2441	Ant1	2.65	30	Pass
NVNT	2-DH5	2480	Ant1	2.46	30	Pass
NVNT	3-DH5	2402	Ant1	3.93	30	Pass
NVNT	3-DH5	2441	Ant1	3.27	30	Pass
NVNT	3-DH5	2480	Ant1	3.09	30	Pass

Note: offset=System attenuation +cable loss

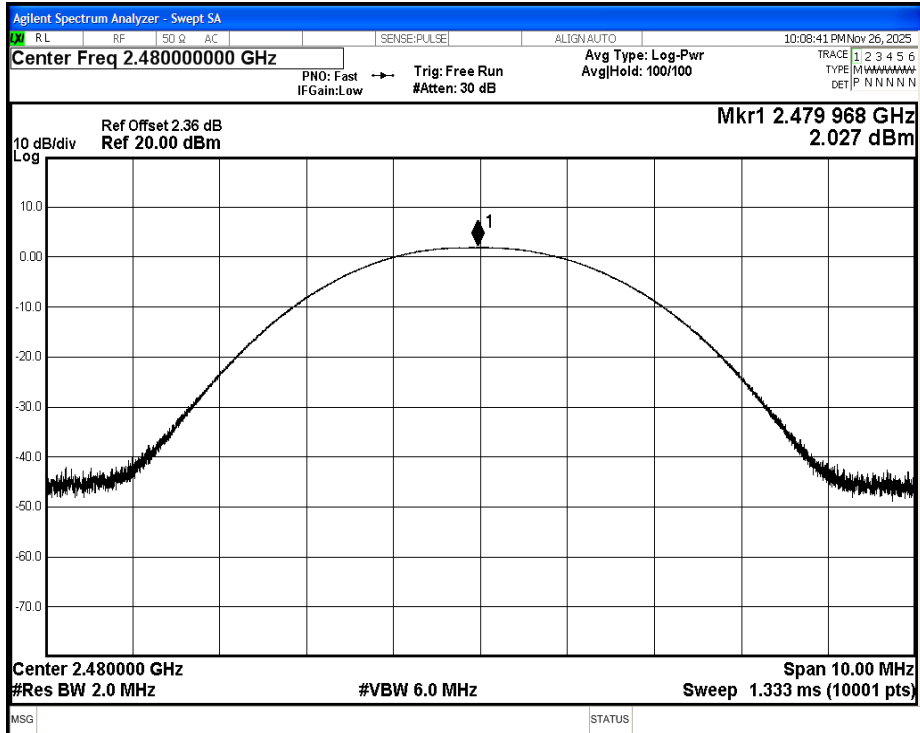
Test Graphs



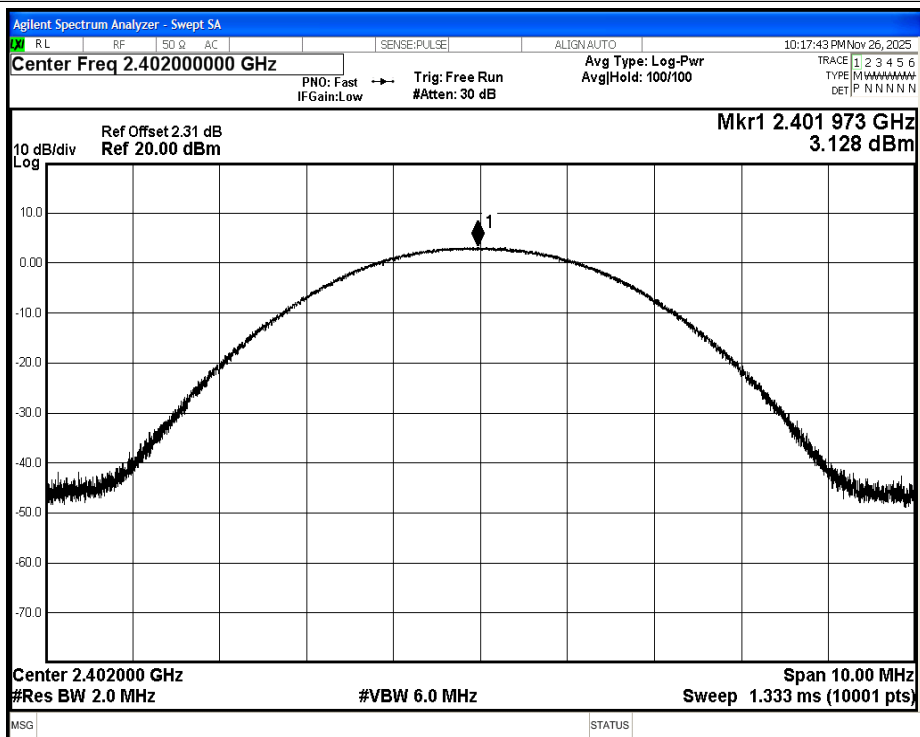
Power NVNT 1-DH5 2402MHz Ant1



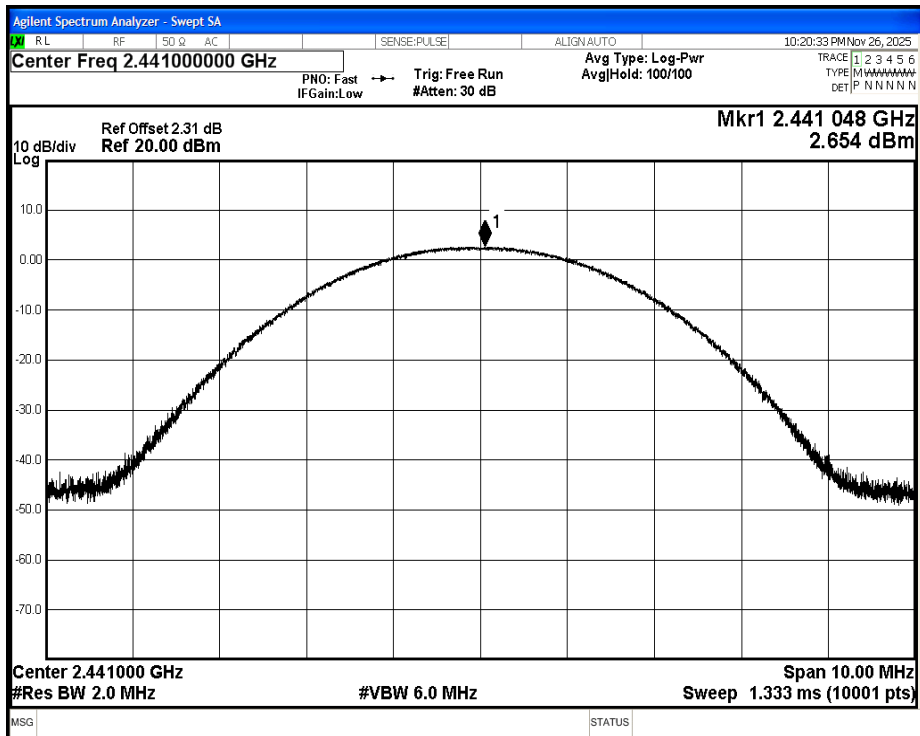
Power NVNT 1-DH5 2441MHz Ant1



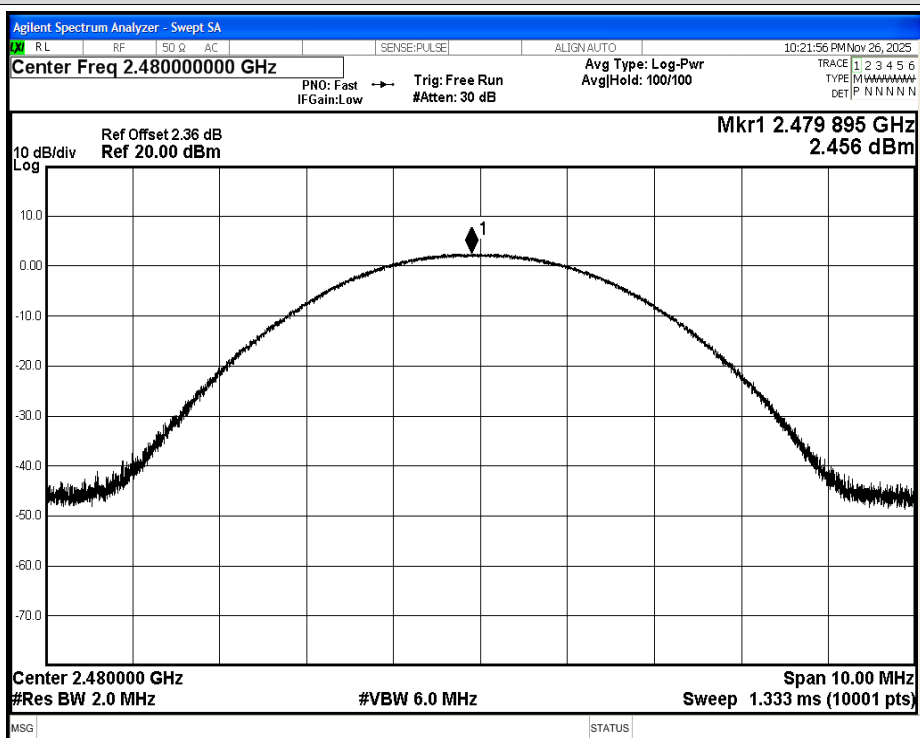
Power NVNT 1-DH5 2480MHz Ant1



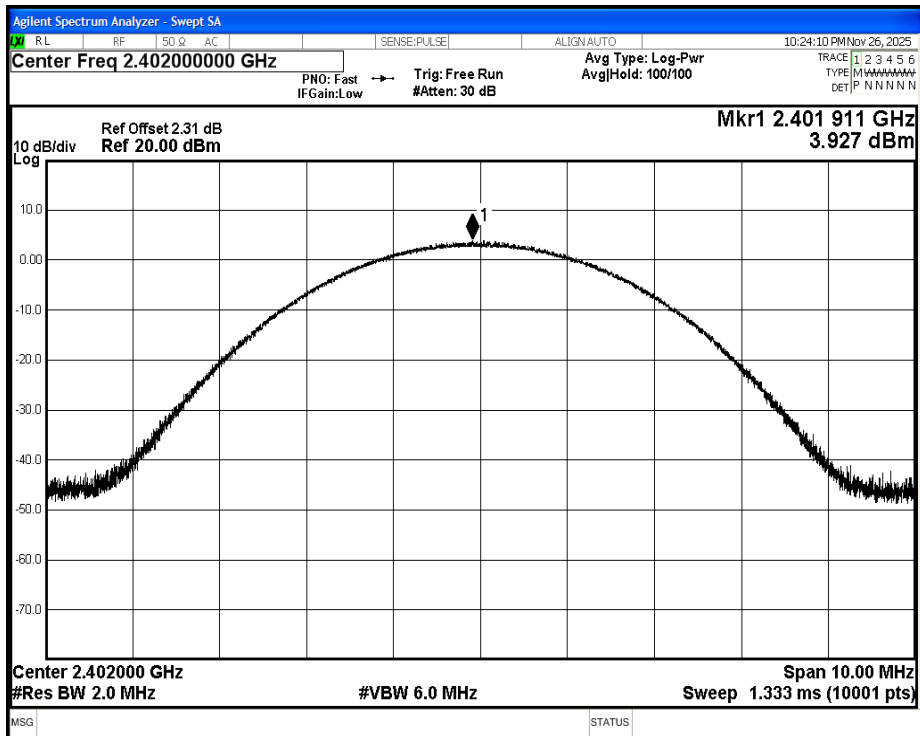
Power NVNT 2-DH5 2402MHz Ant1



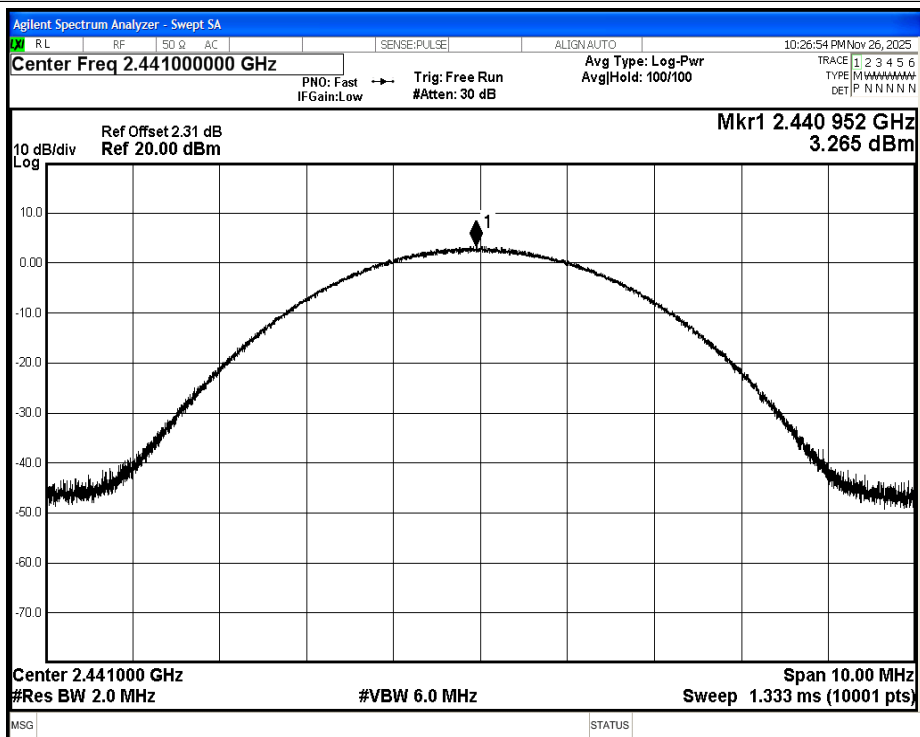
Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

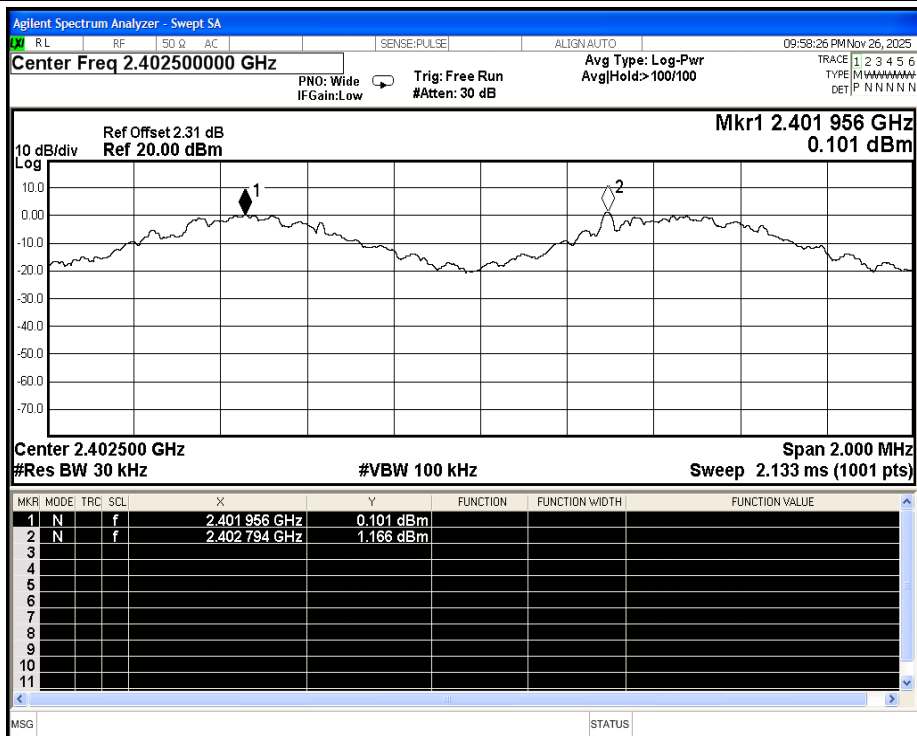
A.3 Carrier Frequencies Separation

Test Result

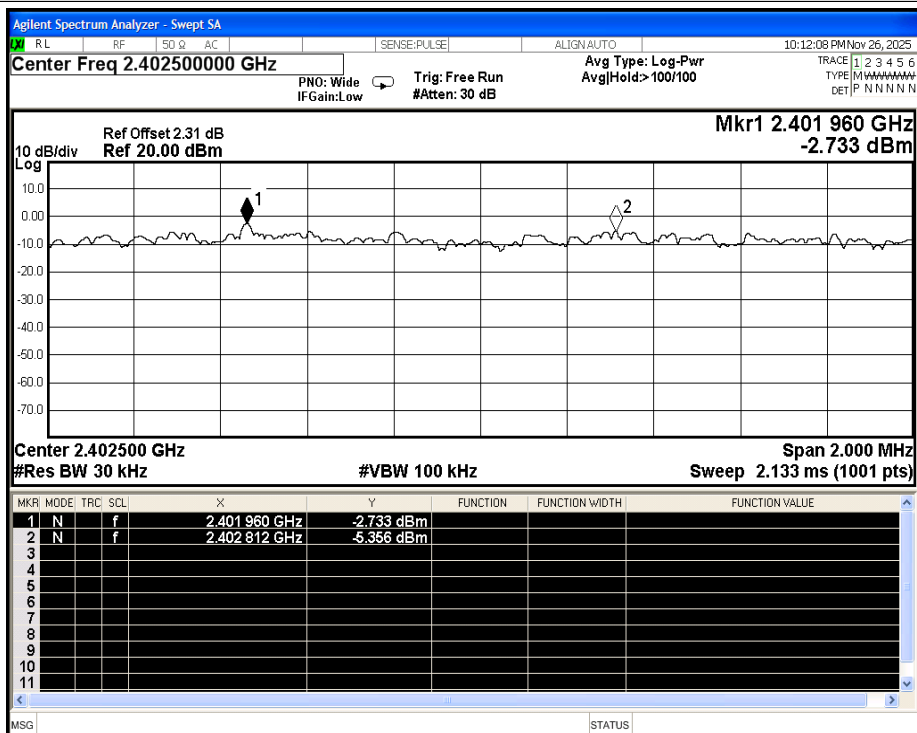
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.956	2402.794	0.838	0.681	Pass
NVNT	2-DH5	Ant1	2401.96	2402.812	0.852	0.881	Pass
NVNT	3-DH5	Ant1	2401.802	2402.796	0.994	0.868	Pass

Note: offset=System attenuation +cabal loss

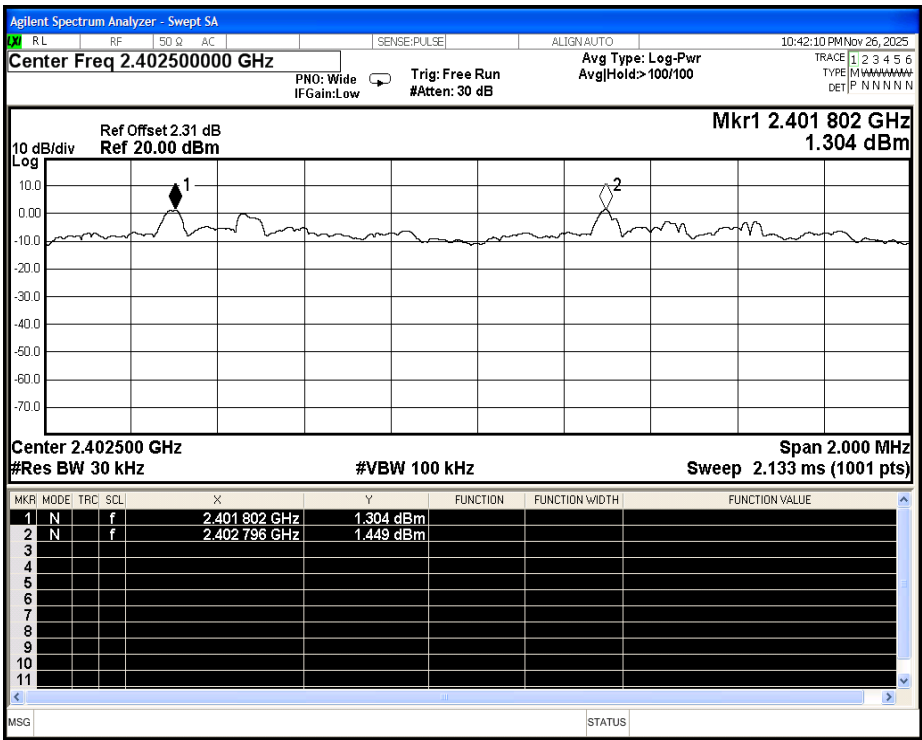
Test Graphs



CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

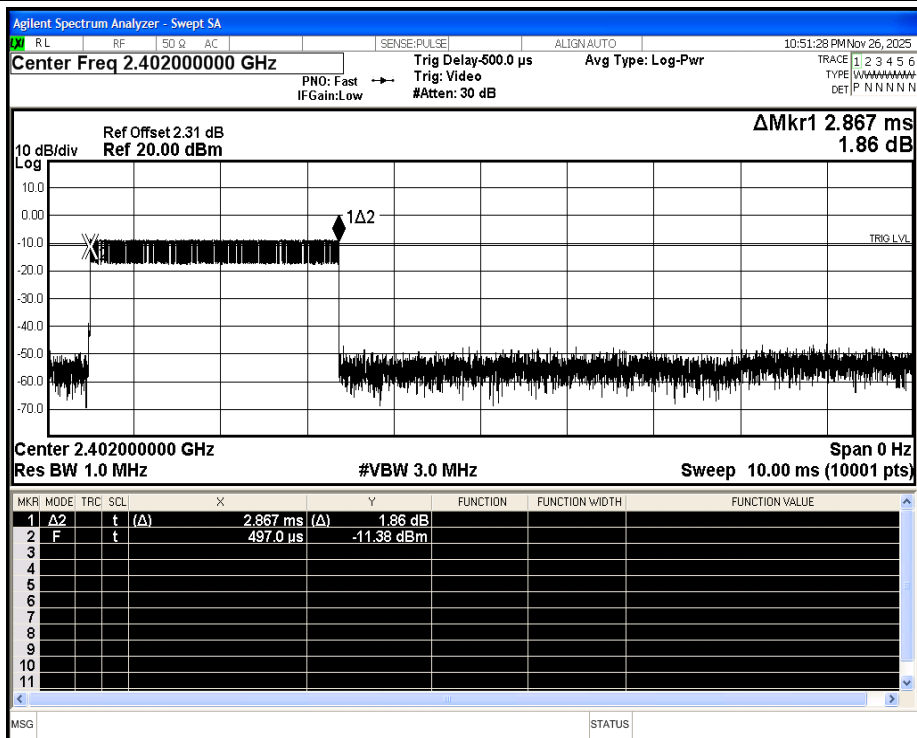
A.4 Dwell Time

Test Result

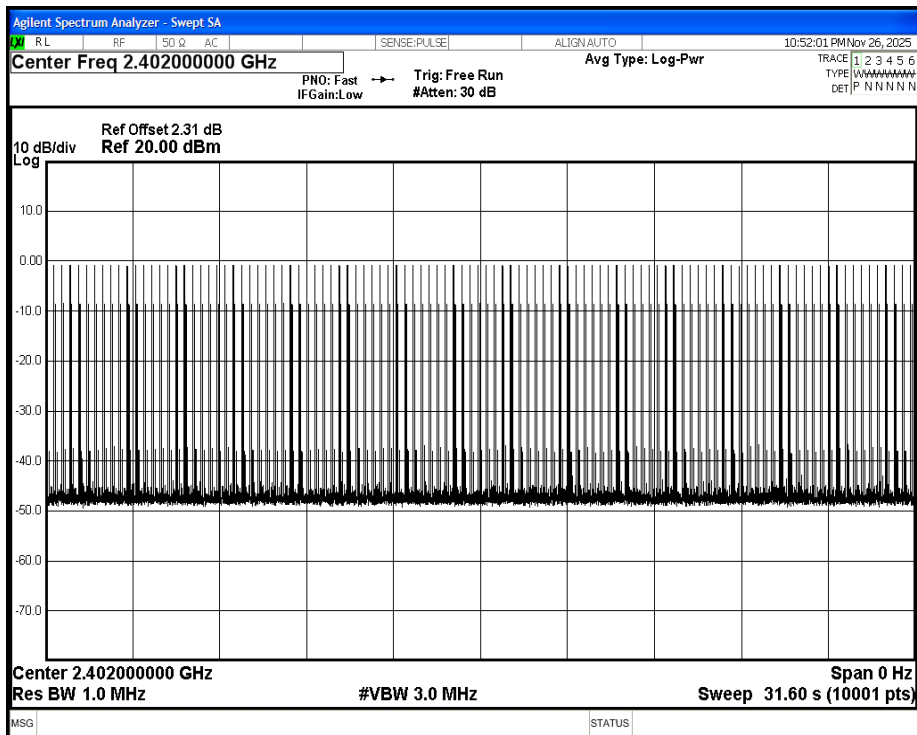
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.867	306.769	107	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.876	307.732	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.88	308.16	107	31600	400	Pass

Note: offset=System attenuation +cable loss

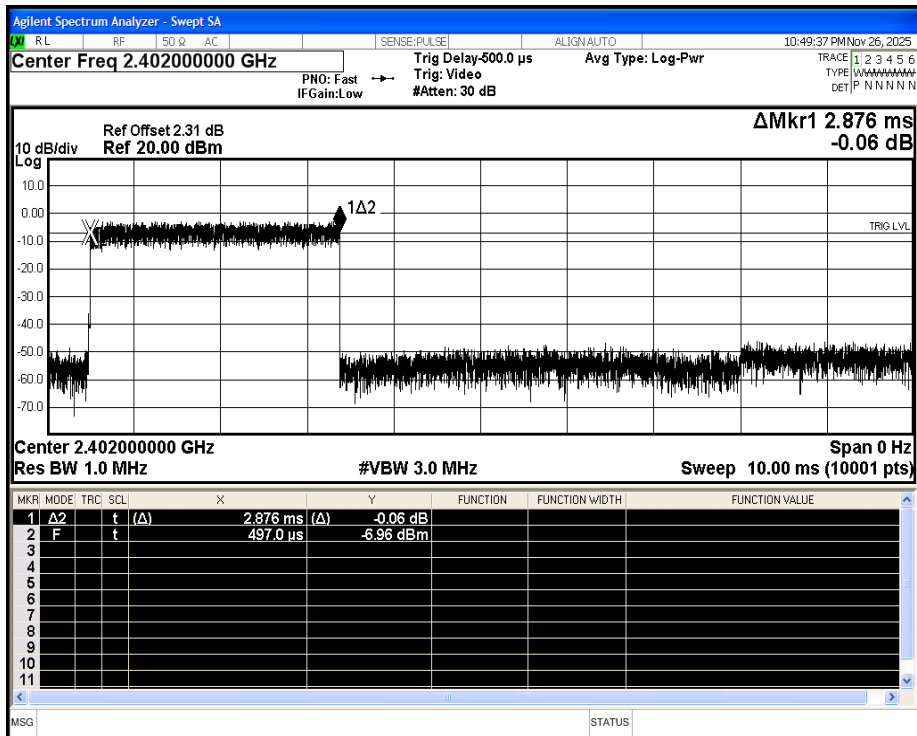
Test Graphs



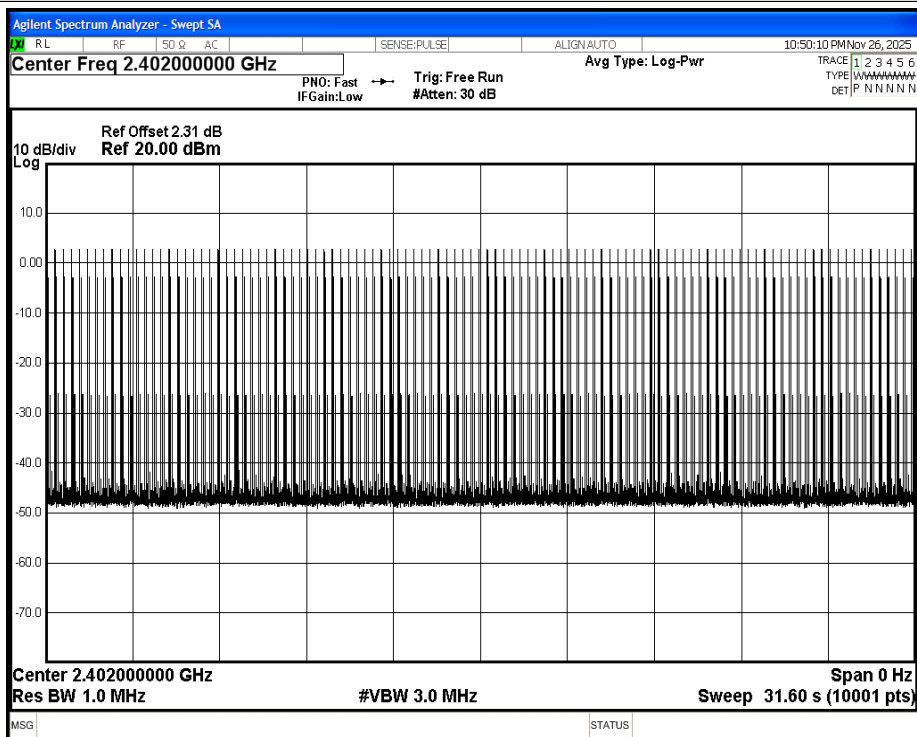
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



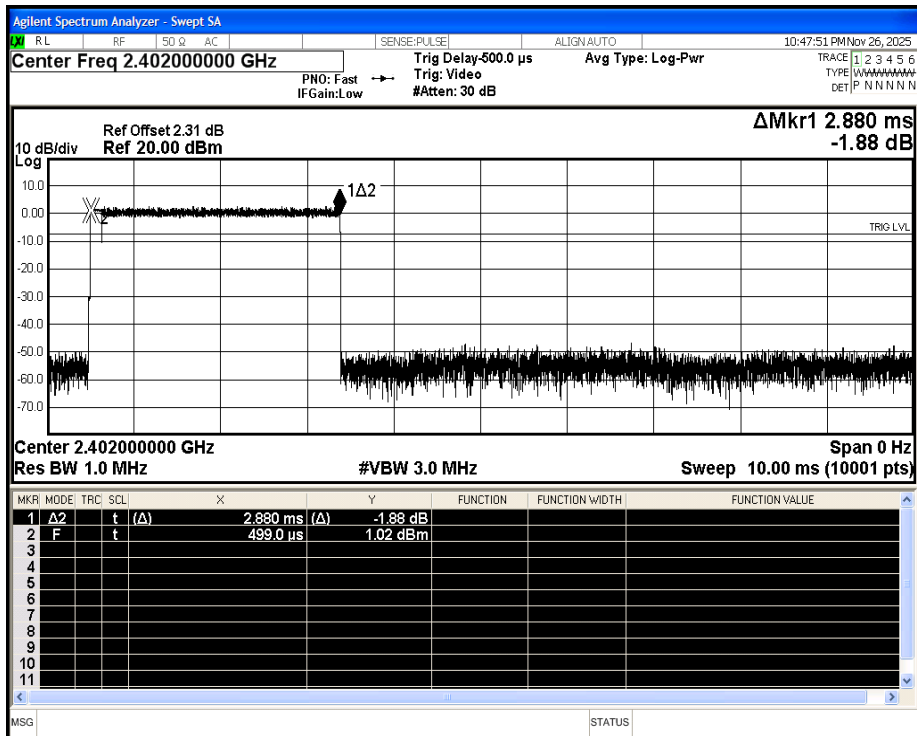
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



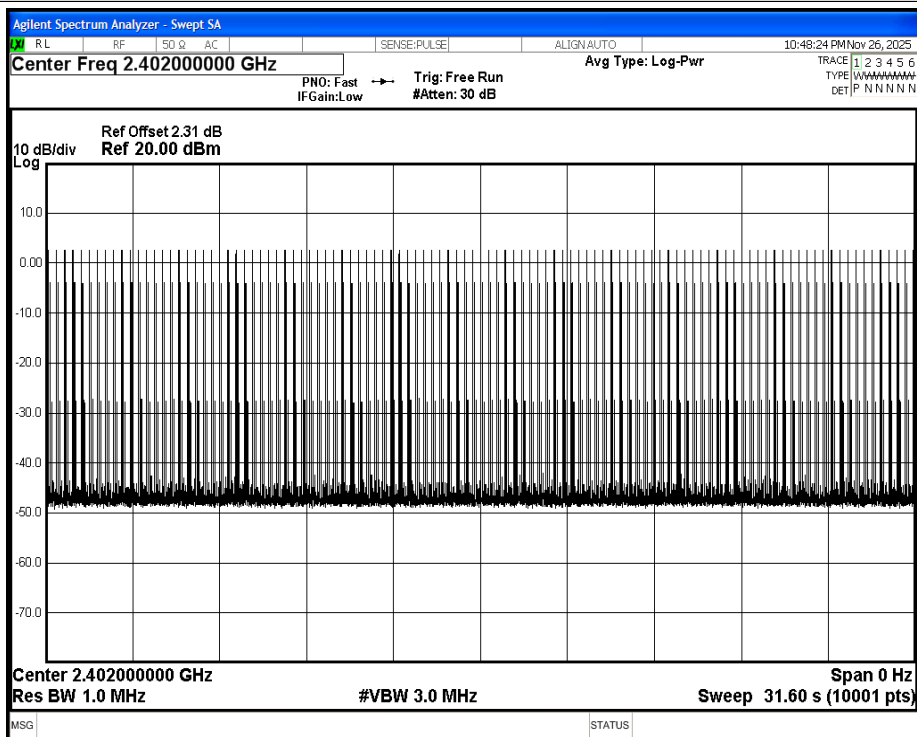
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

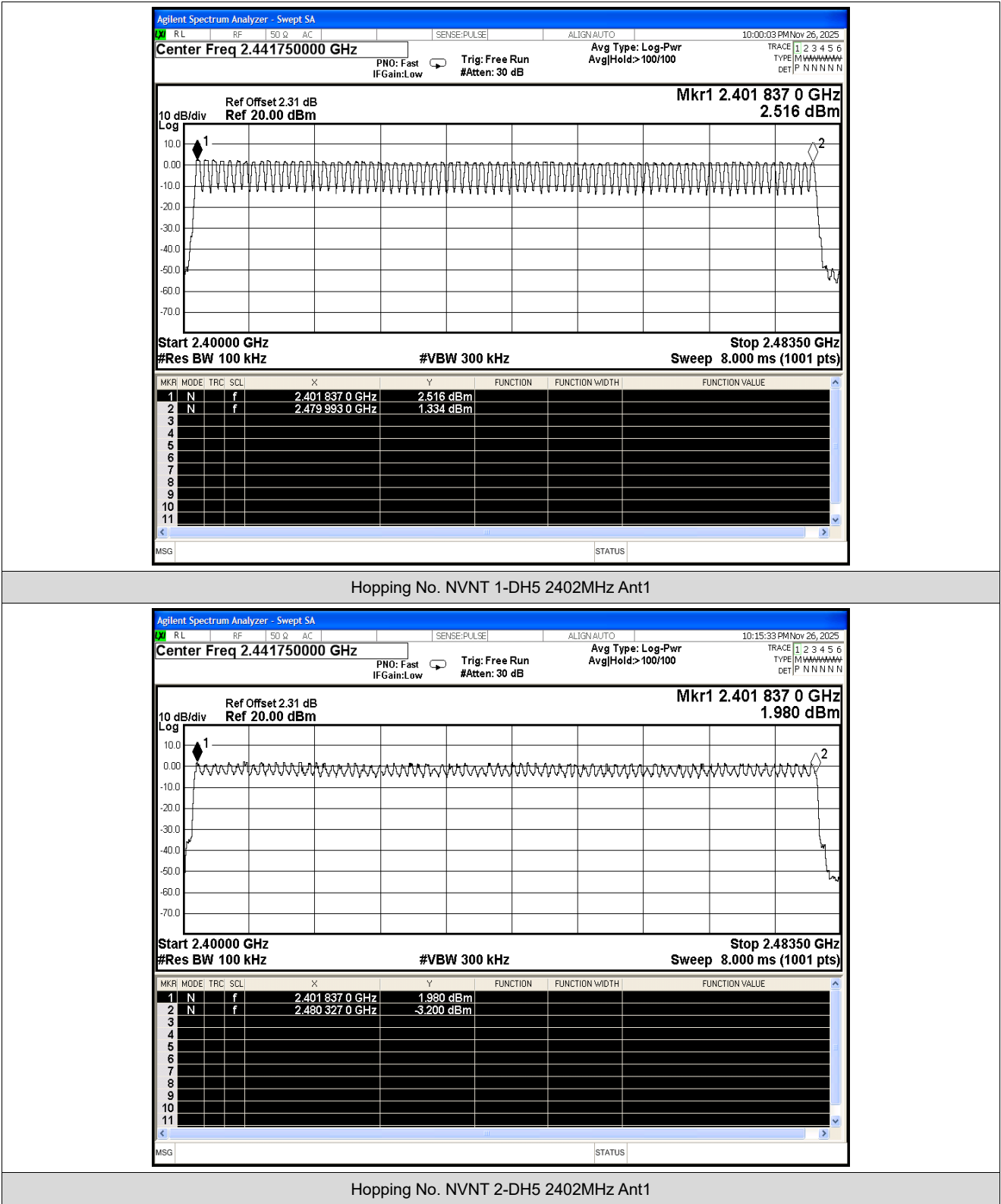
A.5 Number of Hopping Channel

Test Result

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

Note: offset=System attenuation +cable loss

Test Graphs



Agilent Spectrum Analyzer - Swept SA

RL

RF

50 Ω

AC

SENSE:PULSE

ALIGN:AUTO

10:15:33 PM Nov 26, 2025

Center Freq 2.441750000 GHz

PNO: Fast

IF Gain: Low

Trig: Free Run

#Atten: 30 dB

Avg Type: Log-Pwr

Avg/Hold: >100/100

TRACE 1 2 3 4 5 6

TYPE M W W W W W W W

DET P N N N N N N

Ref Offset 2.31 dB

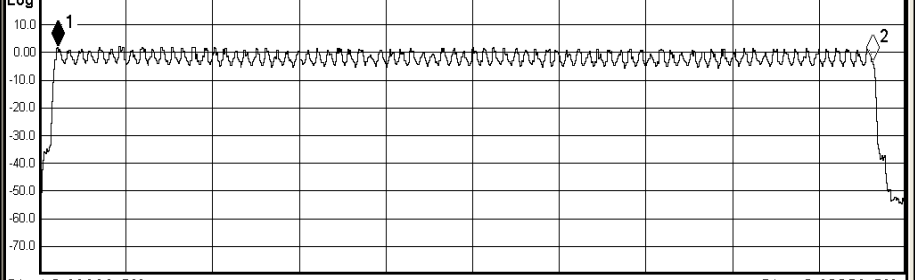
Ref 20.00 dBm

Mkr1 2.401 837 0 GHz

1.980 dBm

10 dB/div

Log



Start 2.40000 GHz

#Res BW 100 kHz

#VBW 300 kHz

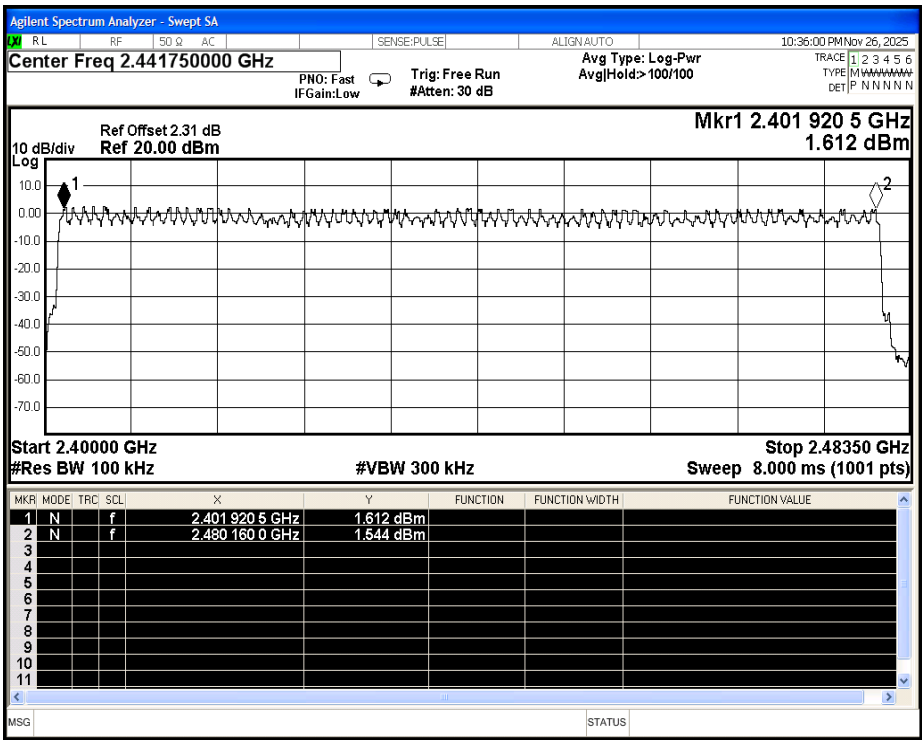
Stop 2.48350 GHz

Sweep 8.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.401 837 0 GHz	1.980 dBm			
2	N	f		2.480 327 0 GHz	-3.200 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

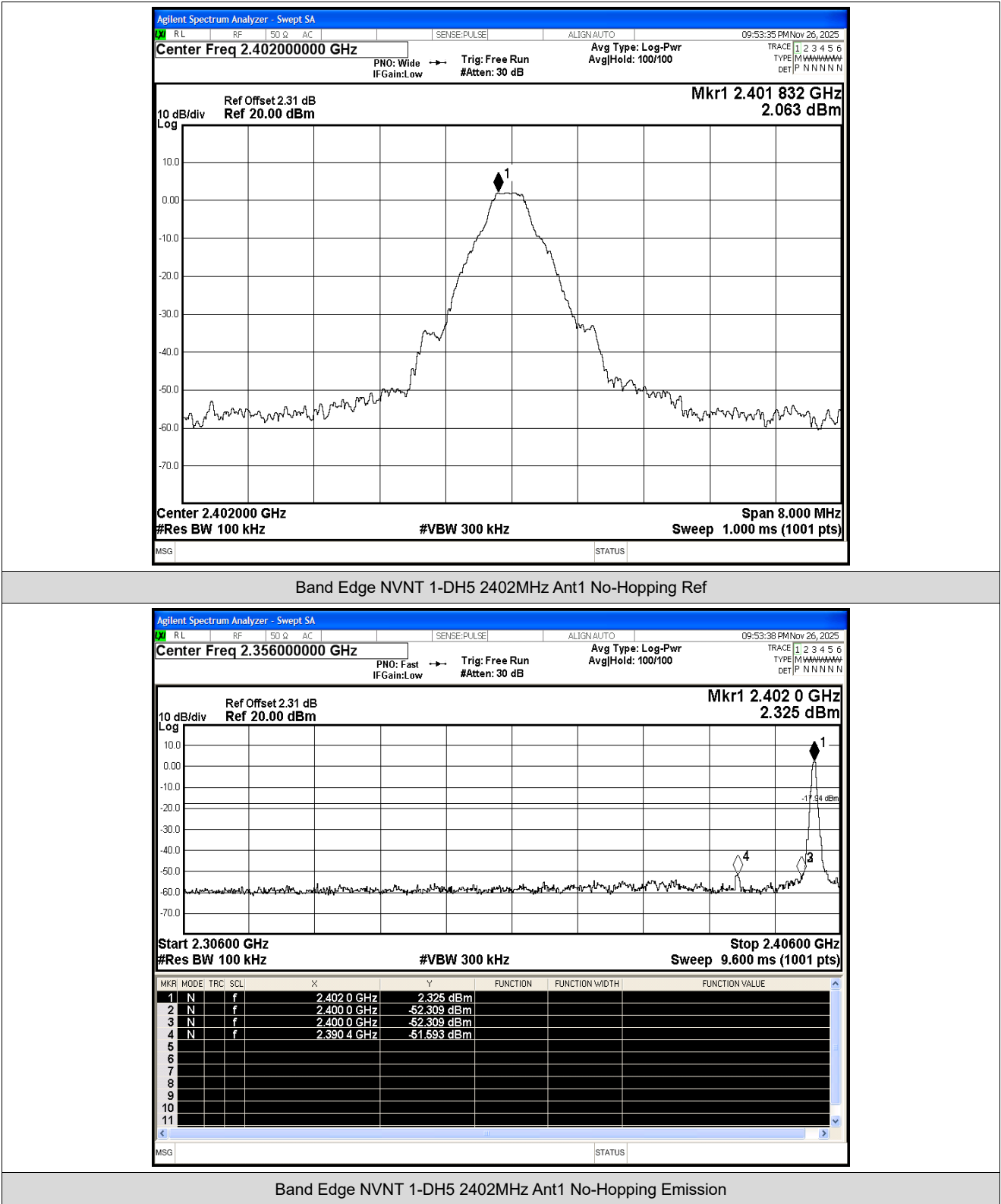
A.6 Band Edge

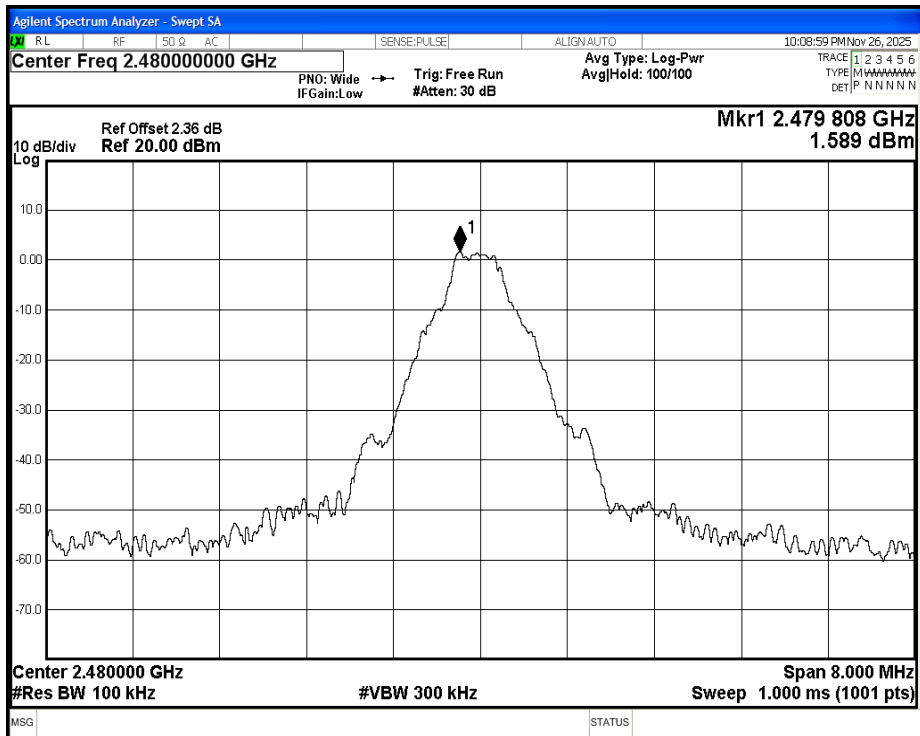
Test Result

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.65	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-51.71	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.96	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.09	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.42	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.49	-20	Pass

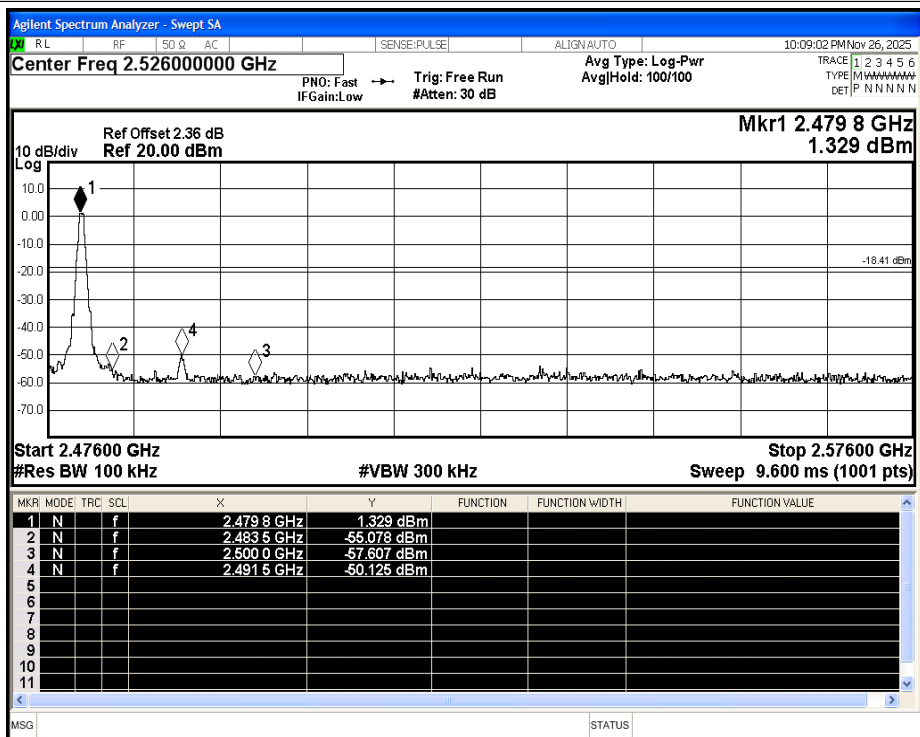
Note: offset=System attenuation +cabal loss

Test Graphs

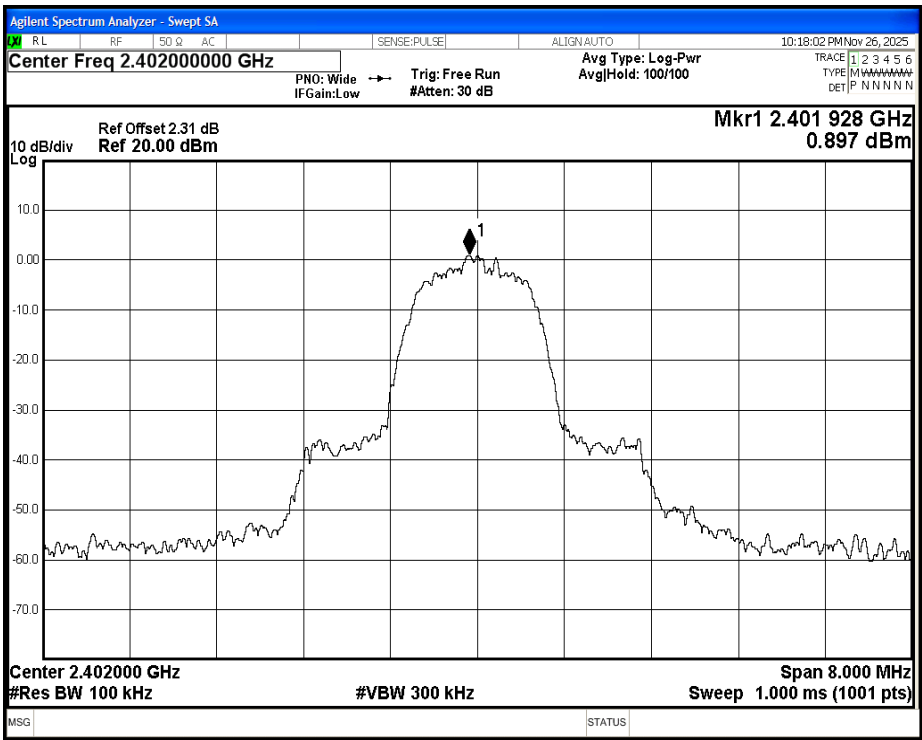




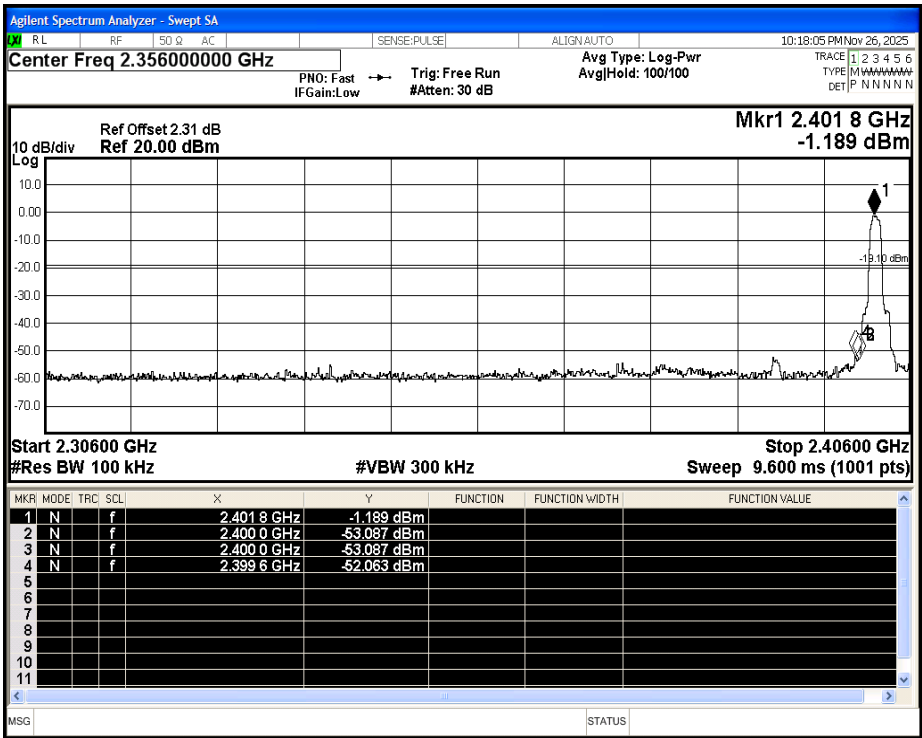
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



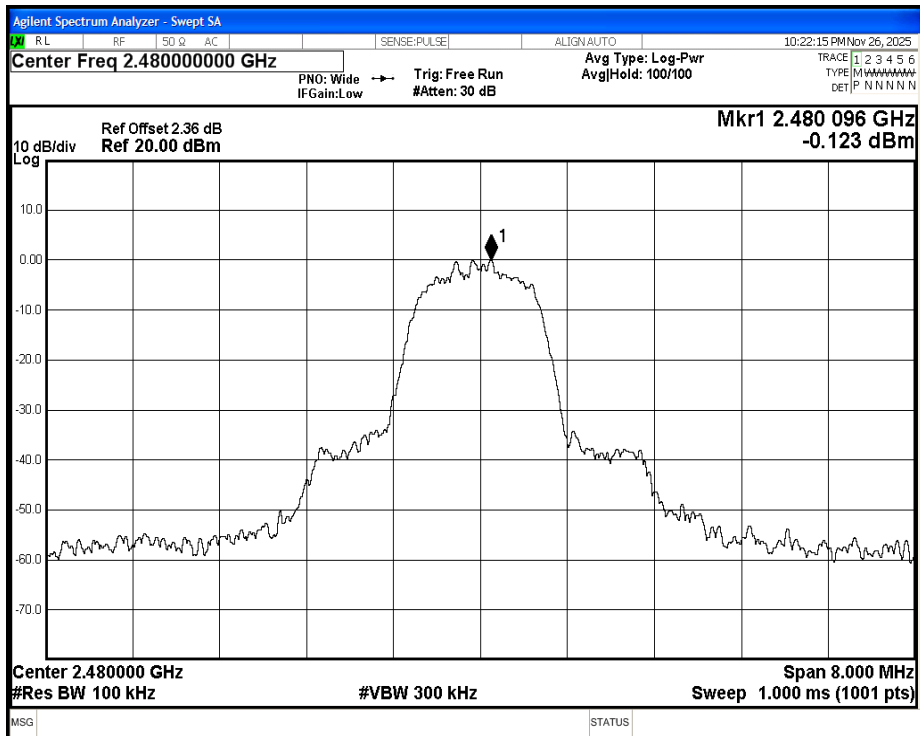
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



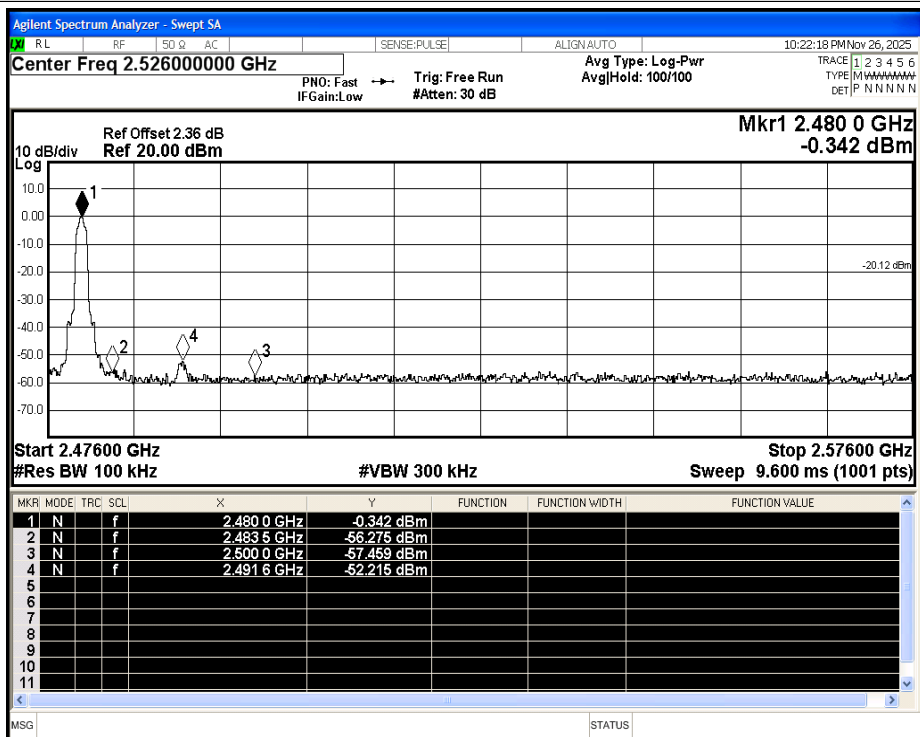
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



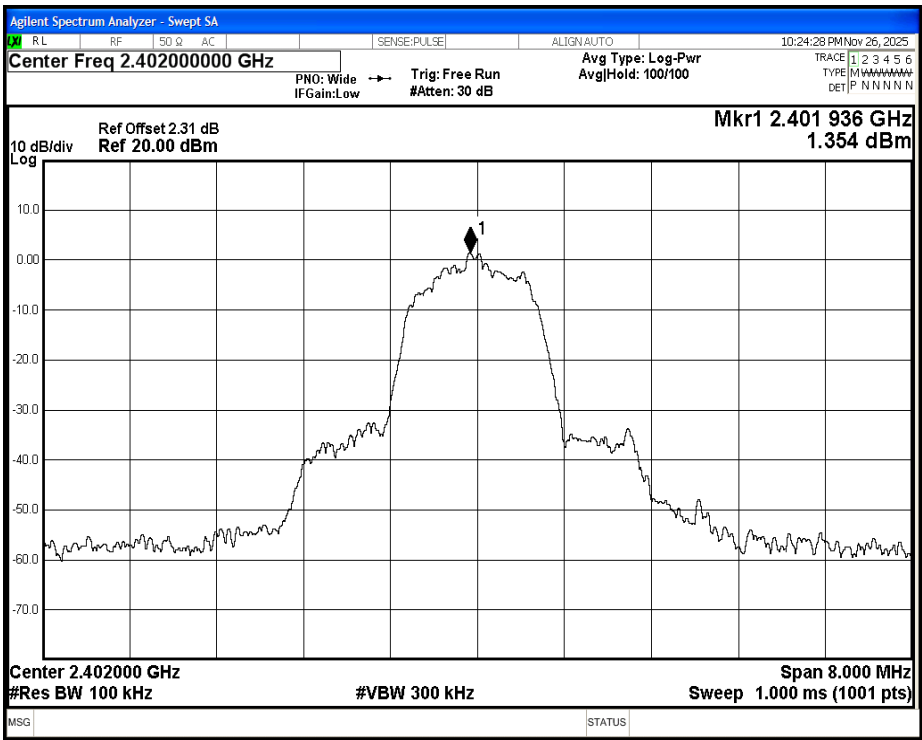
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



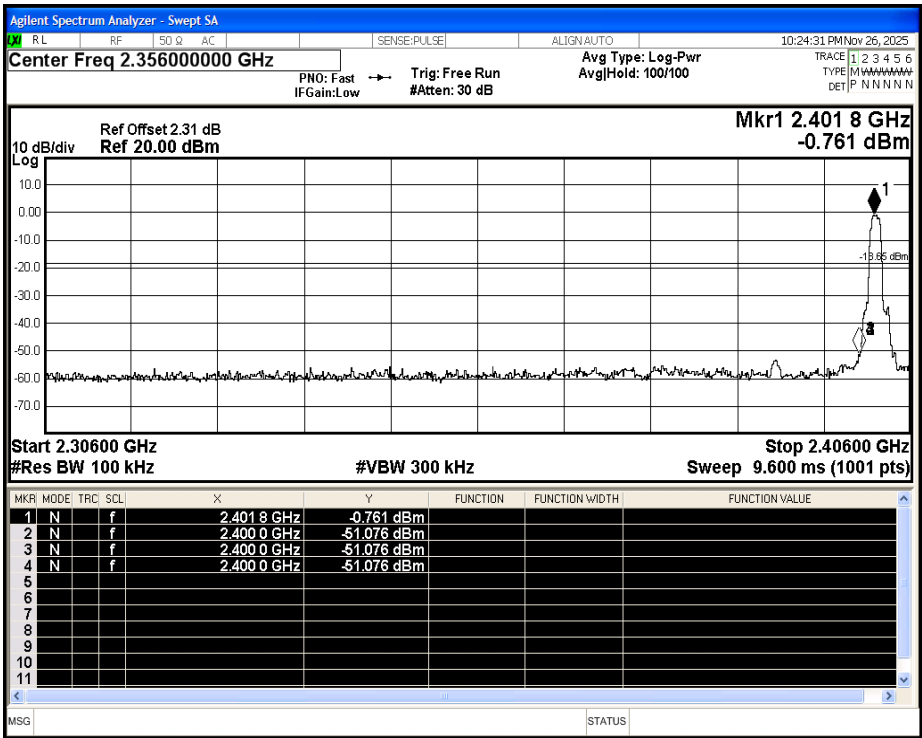
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



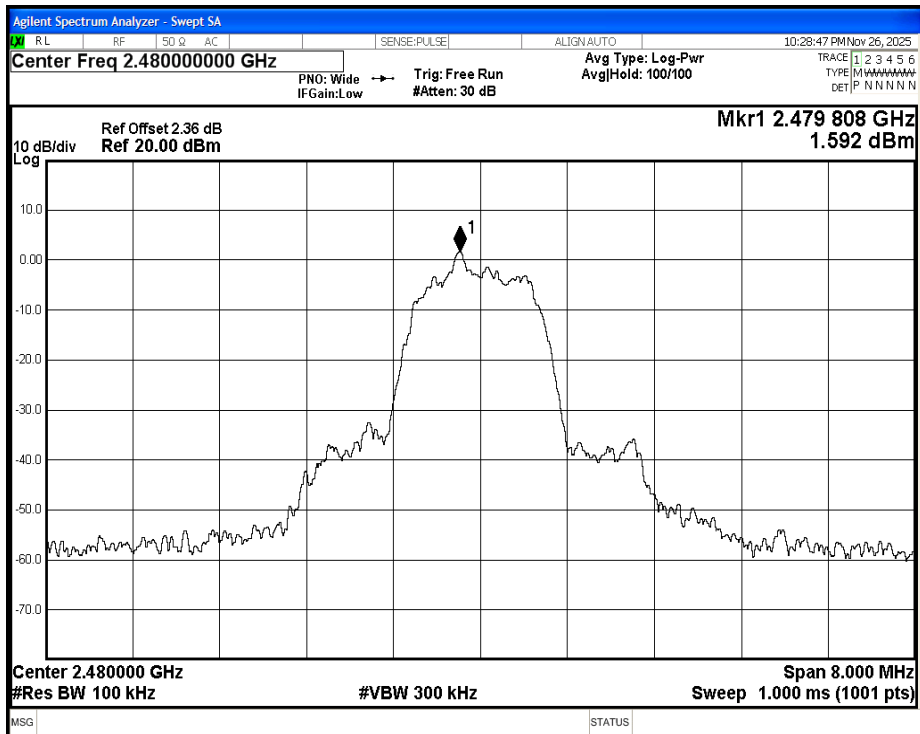
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



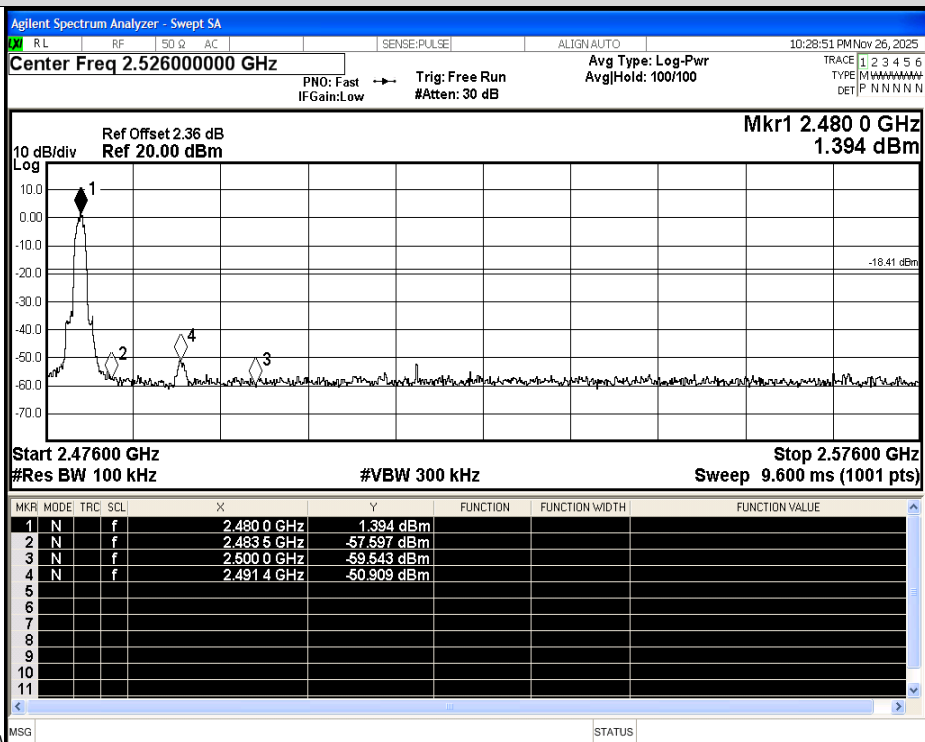
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



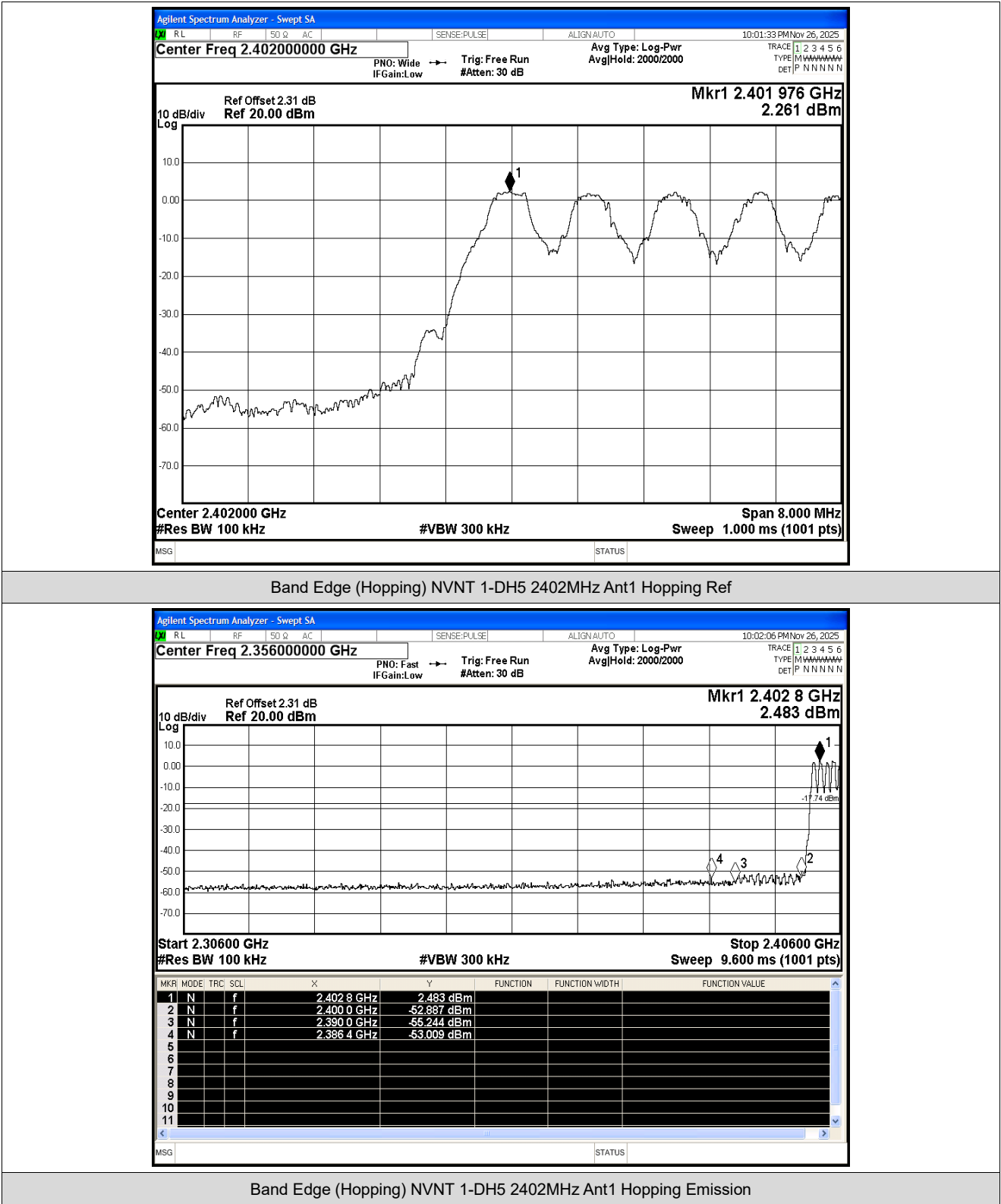
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

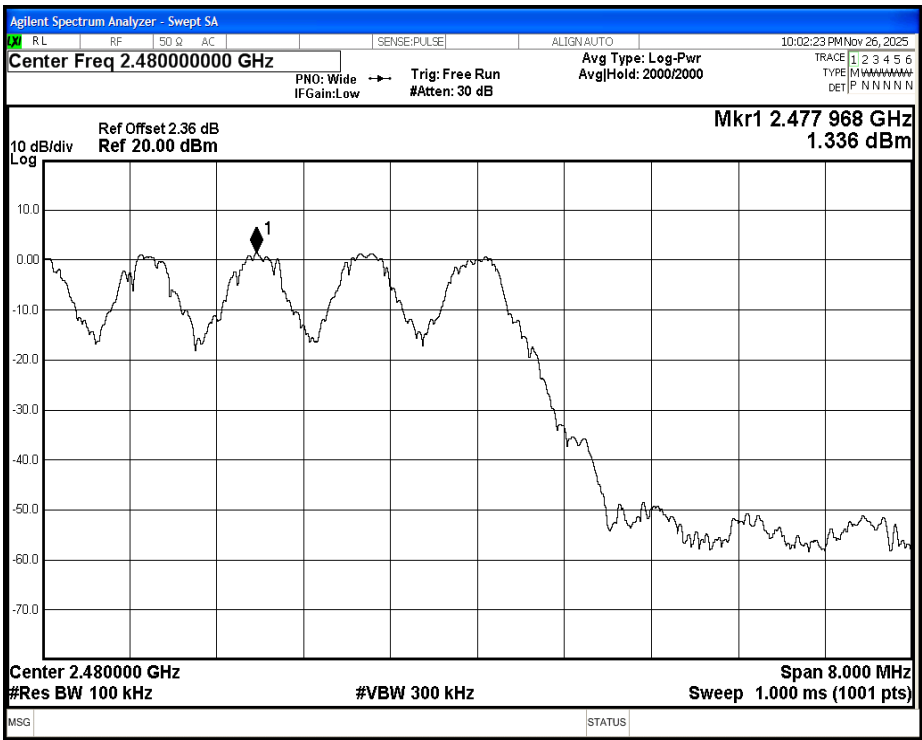
(Hopping)**Test Result**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.26	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-51.11	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.66	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.43	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.59	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.89	-20	Pass

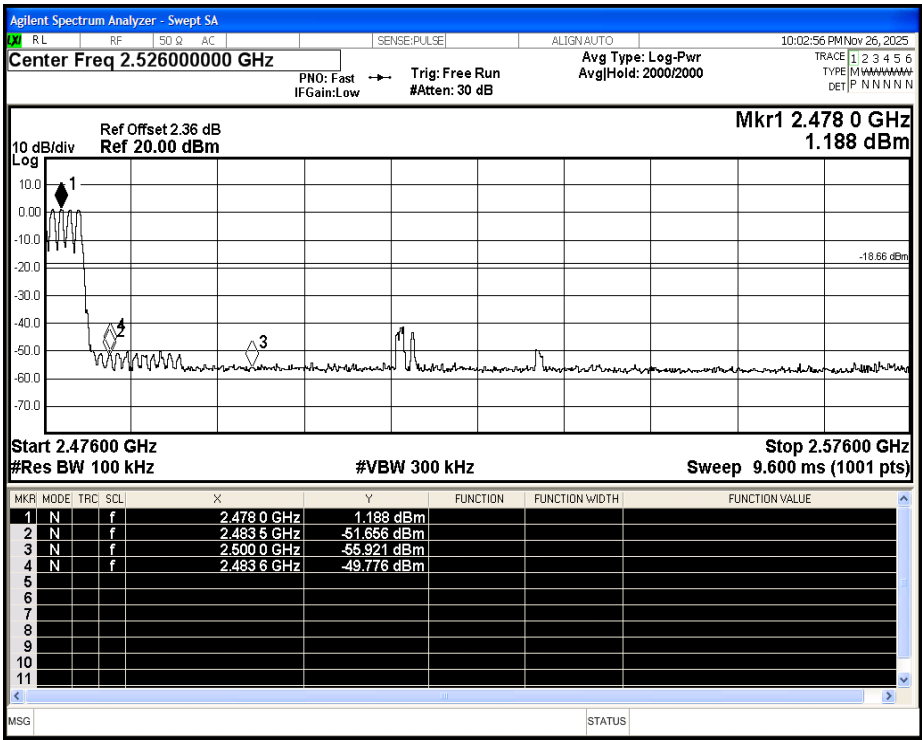
Note: offset=System attenuation +cabal loss

Test Graphs





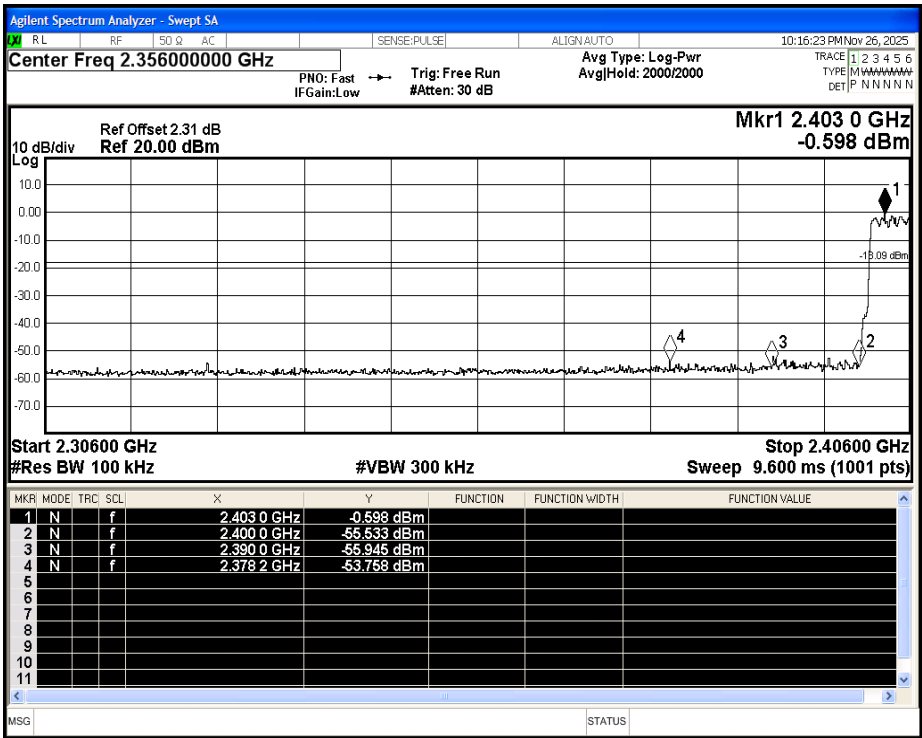
Band Edge (Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



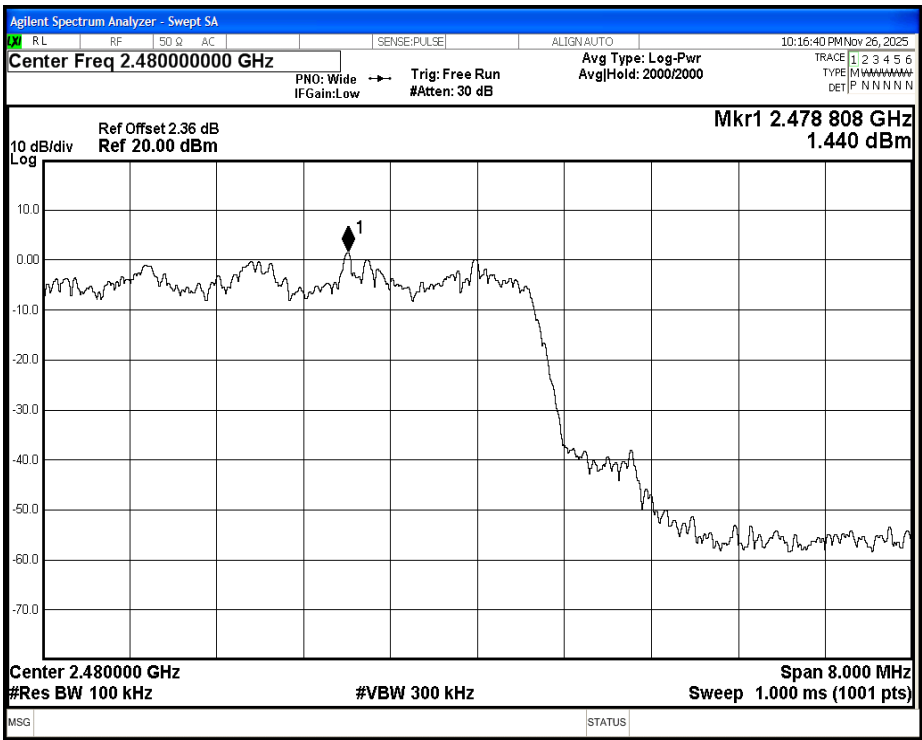
Band Edge (Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



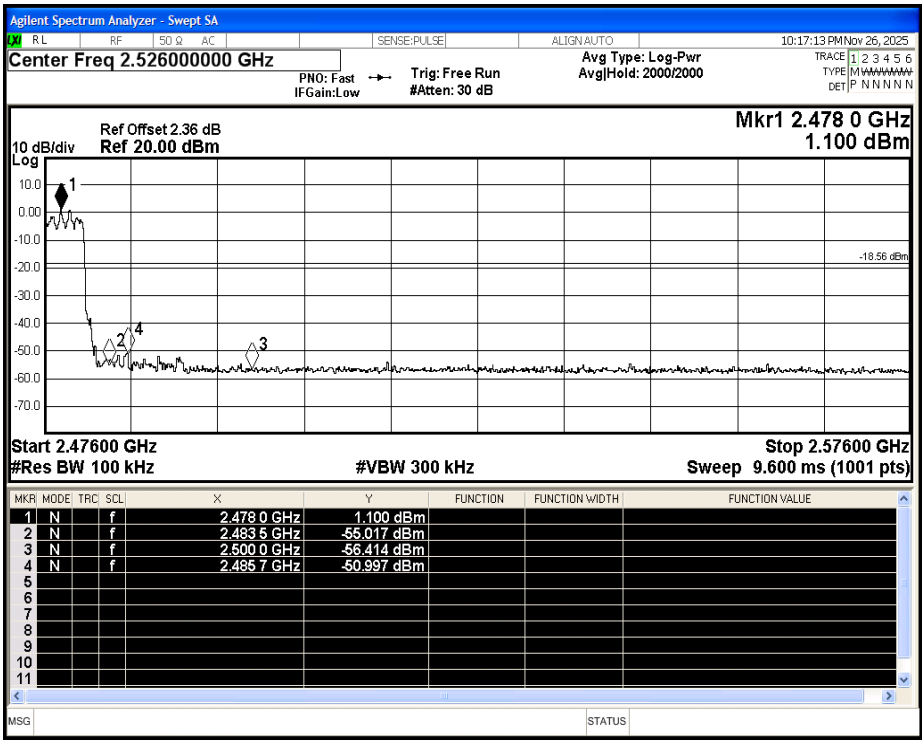
Band Edge (Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge (Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



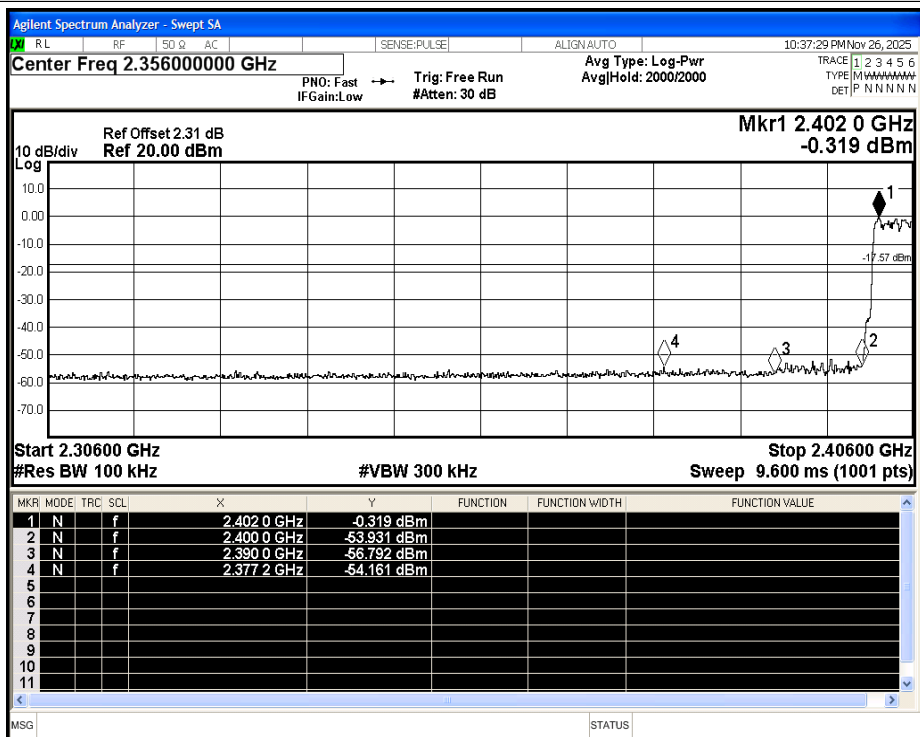
Band Edge (Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



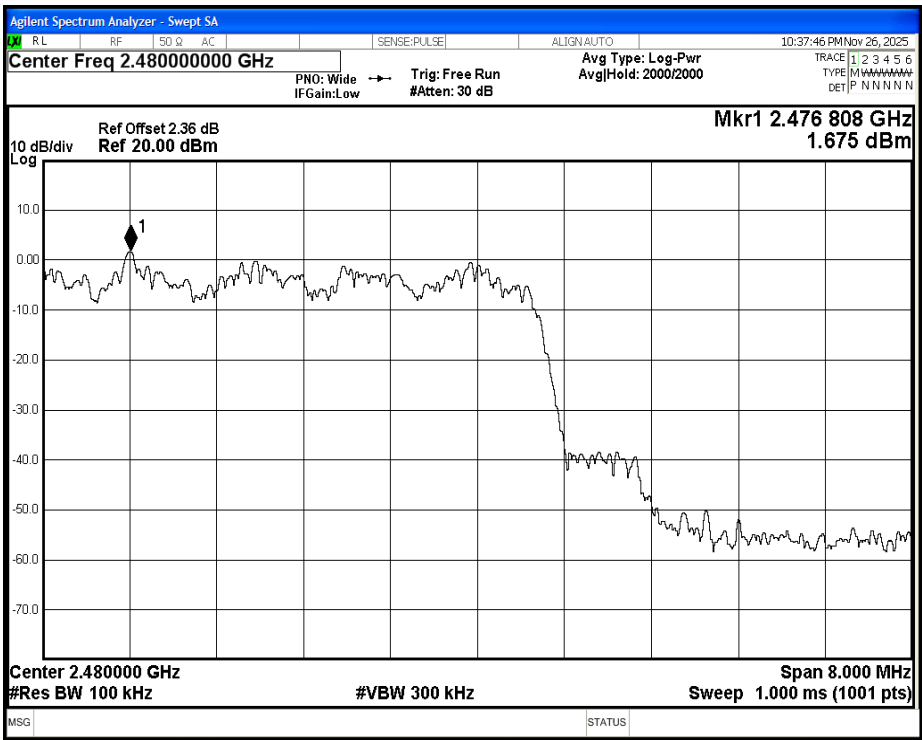
Band Edge (Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



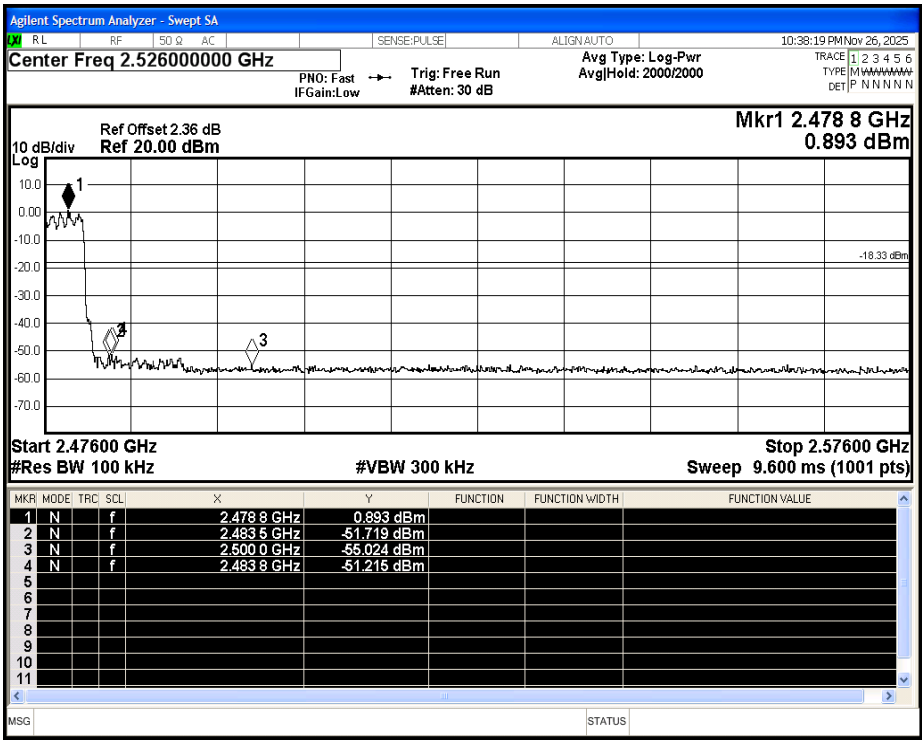
Band Edge (Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge (Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge (Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge (Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

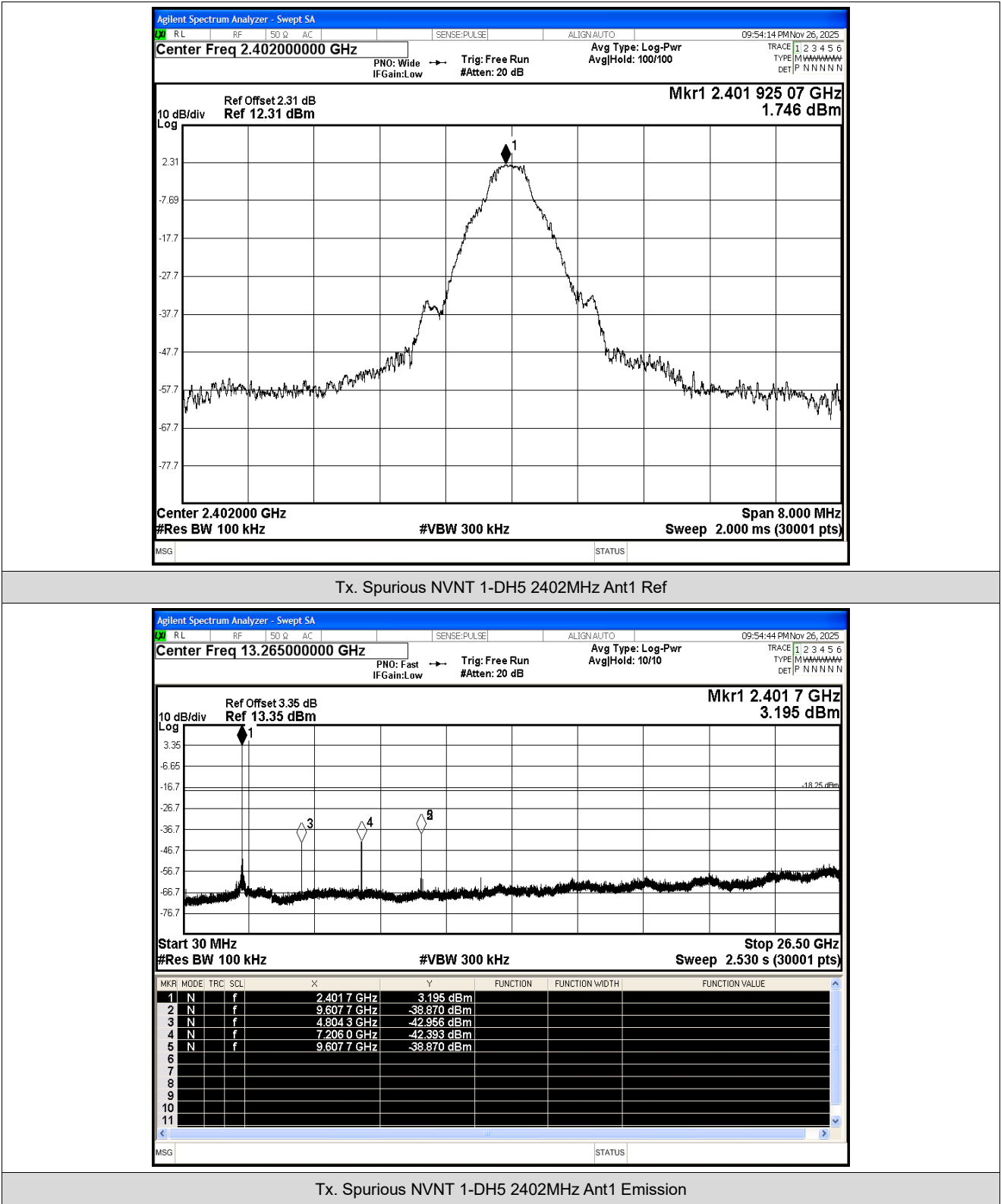
A.7 Conducted RF Spurious Emission

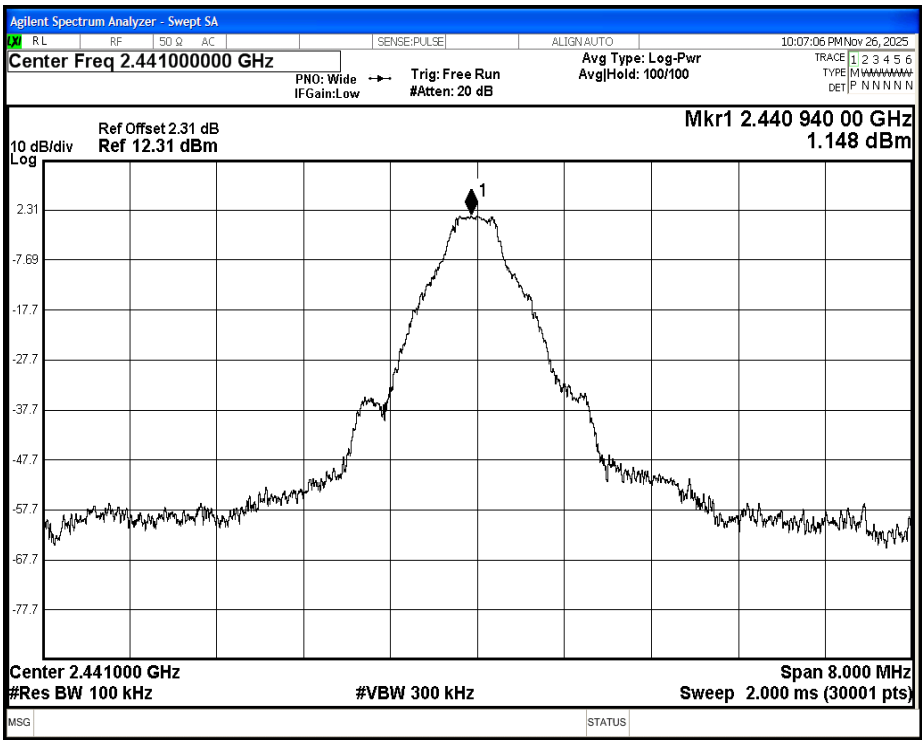
Test Result

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.62	-20	Pass
NVNT	1-DH5	2441	Ant1	-41.97	-20	Pass
NVNT	1-DH5	2480	Ant1	-42.64	-20	Pass
NVNT	2-DH5	2402	Ant1	-41.21	-20	Pass
NVNT	2-DH5	2441	Ant1	-42.91	-20	Pass
NVNT	2-DH5	2480	Ant1	-43.2	-20	Pass
NVNT	3-DH5	2402	Ant1	-41.34	-20	Pass
NVNT	3-DH5	2441	Ant1	-42.77	-20	Pass
NVNT	3-DH5	2480	Ant1	-42.86	-20	Pass

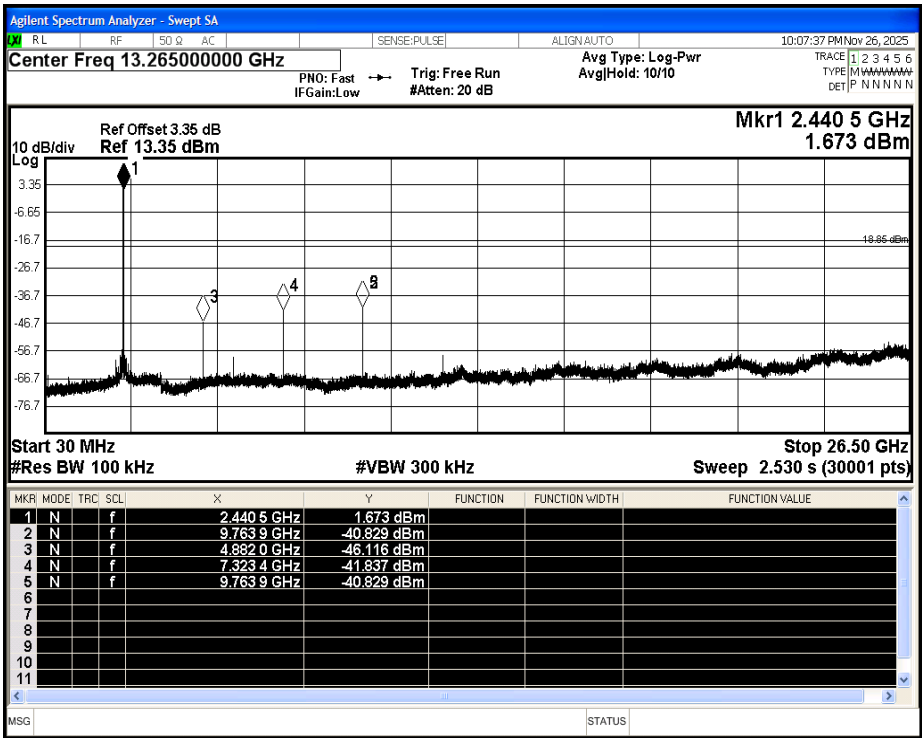
Note: offset=System attenuation +cable loss

Test Graphs

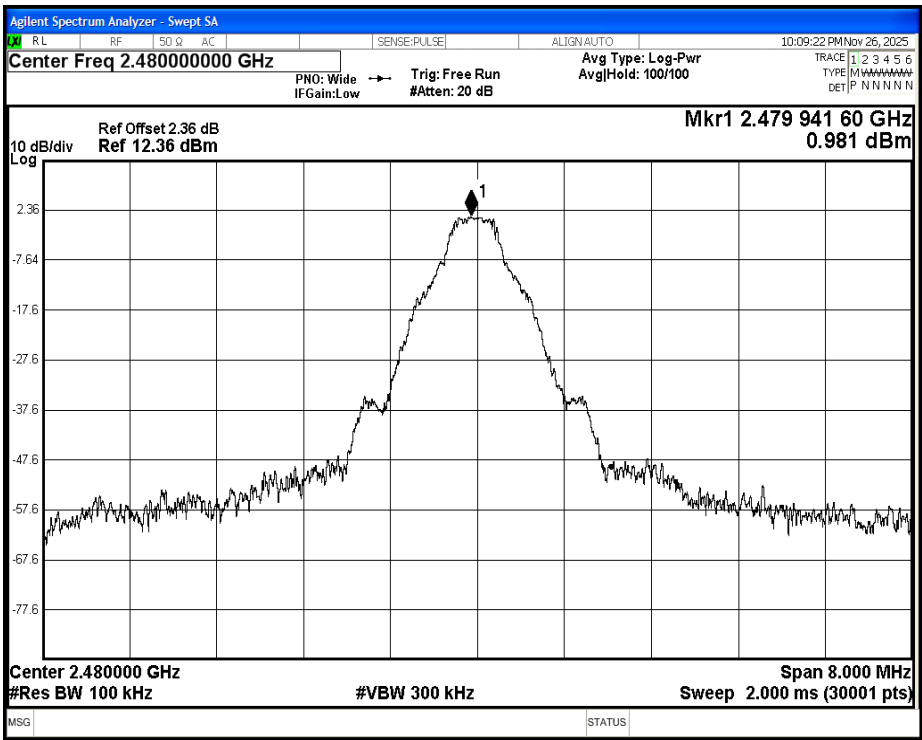




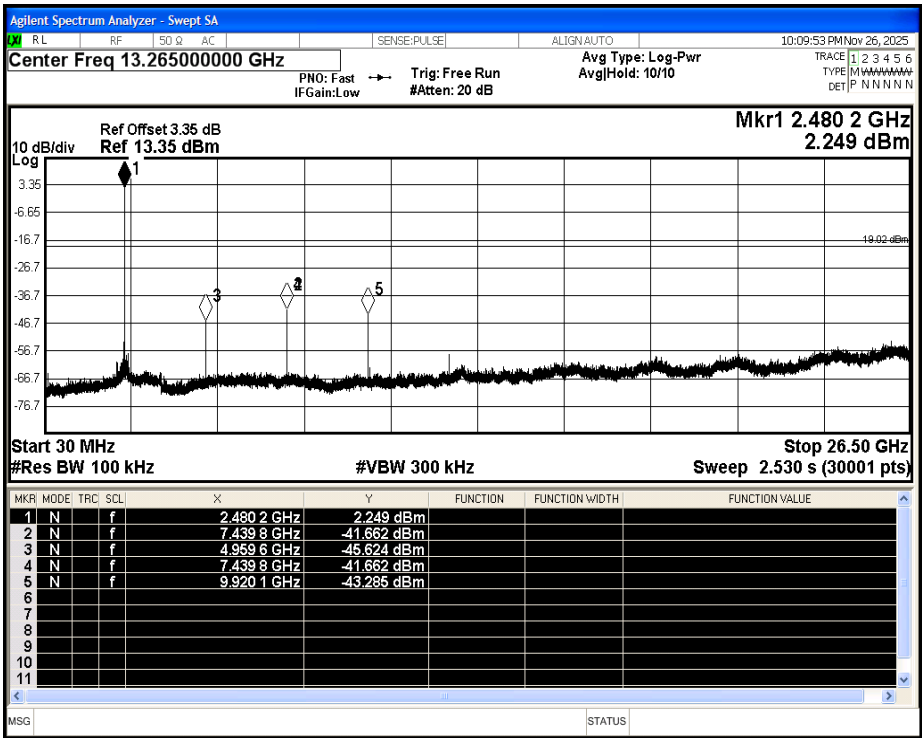
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



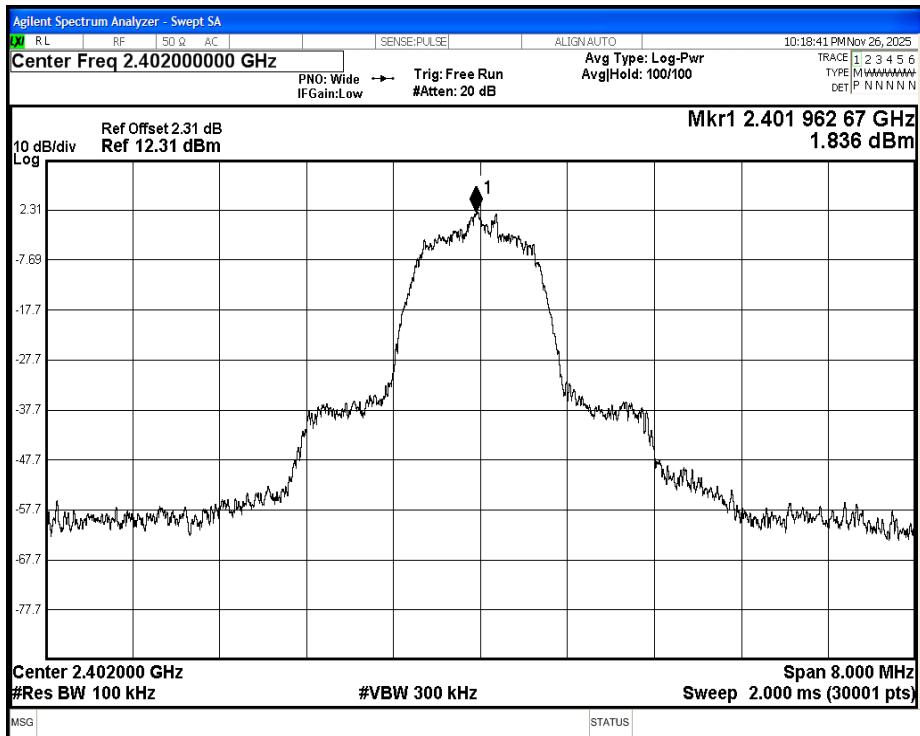
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



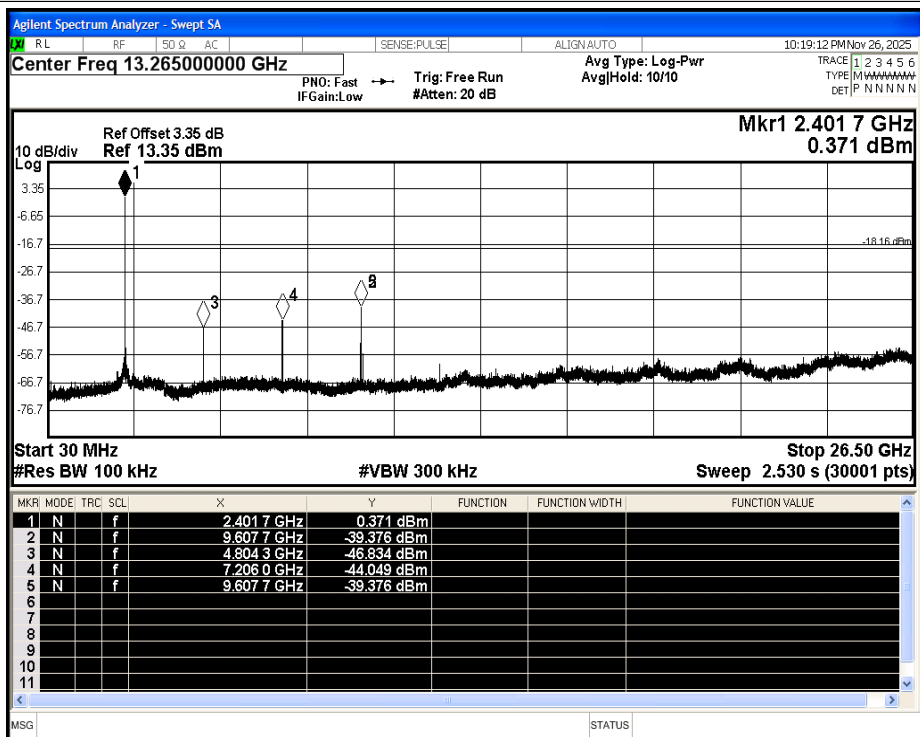
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



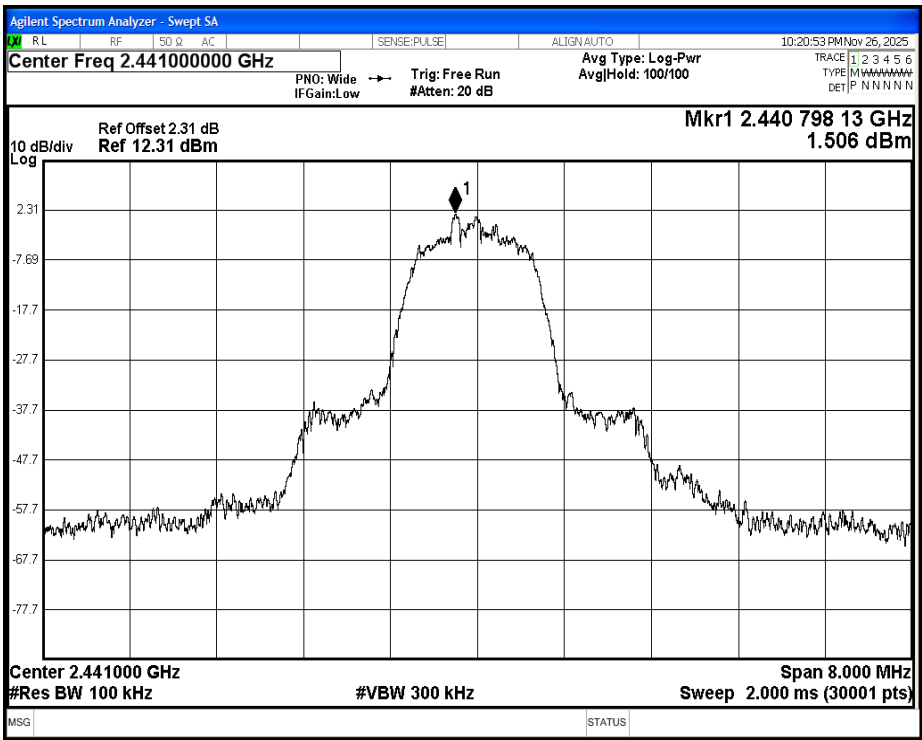
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



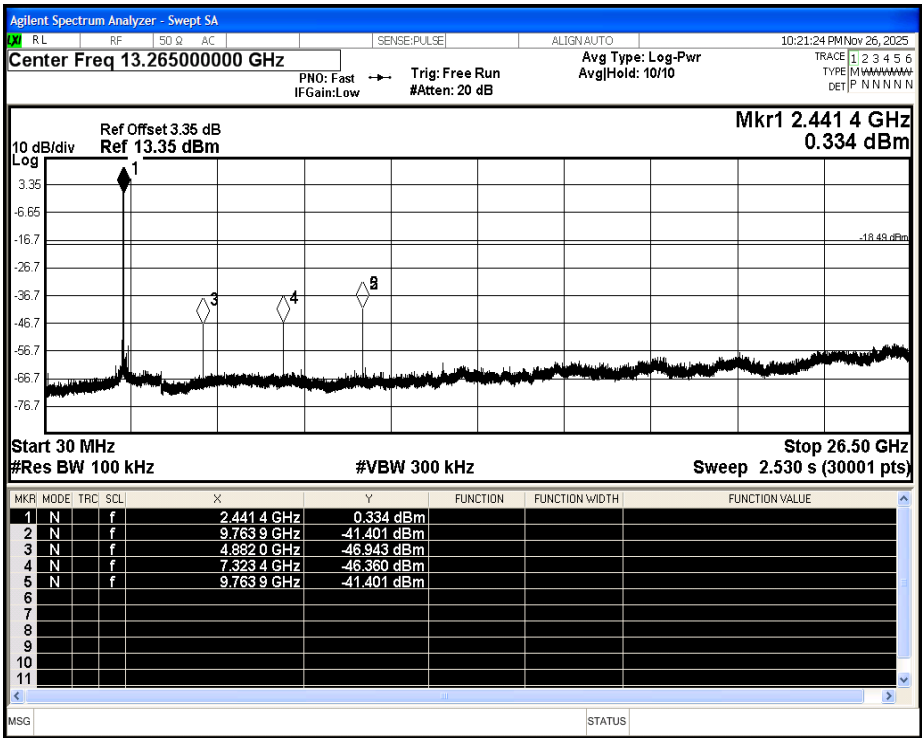
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



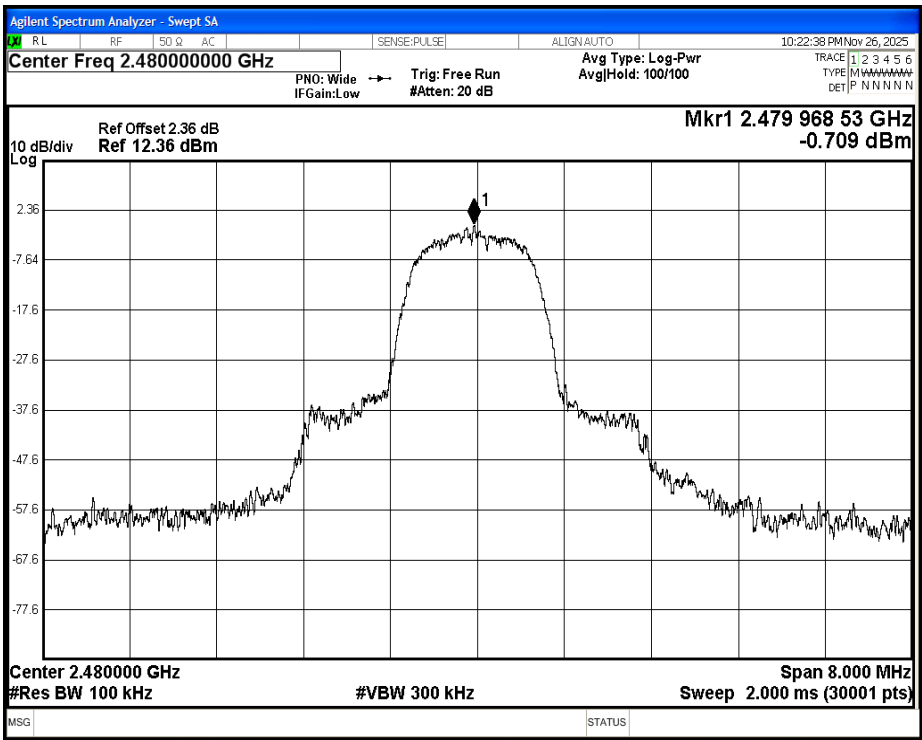
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



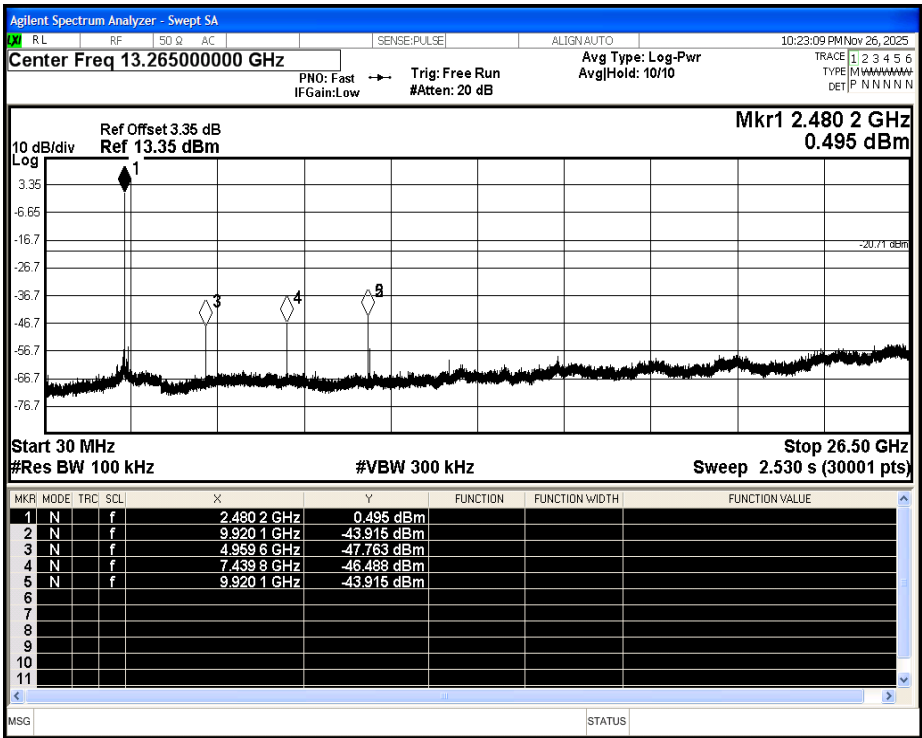
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



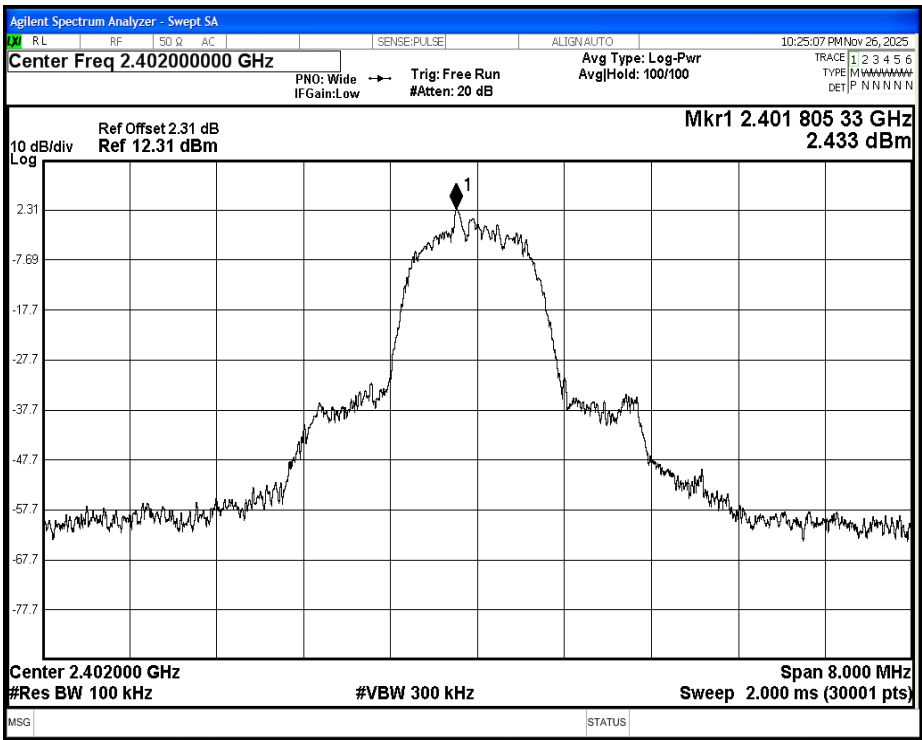
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



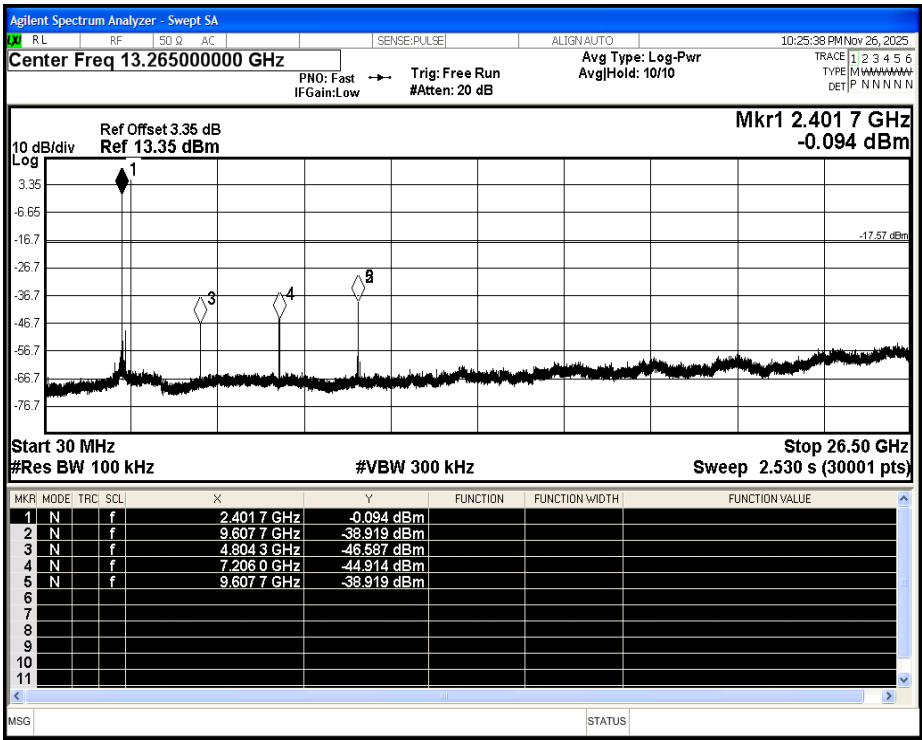
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



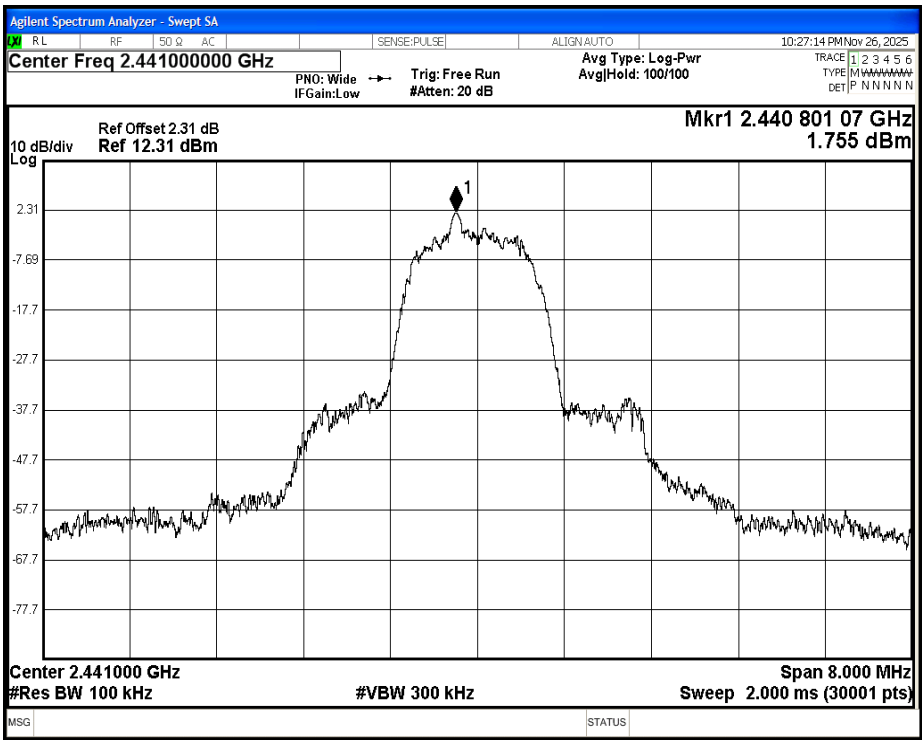
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



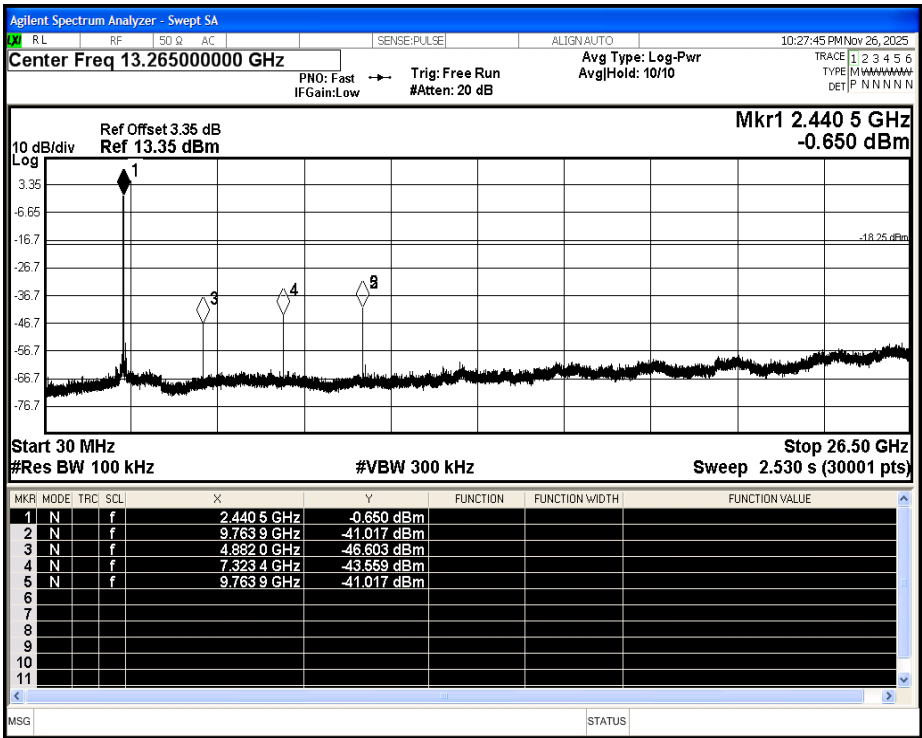
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



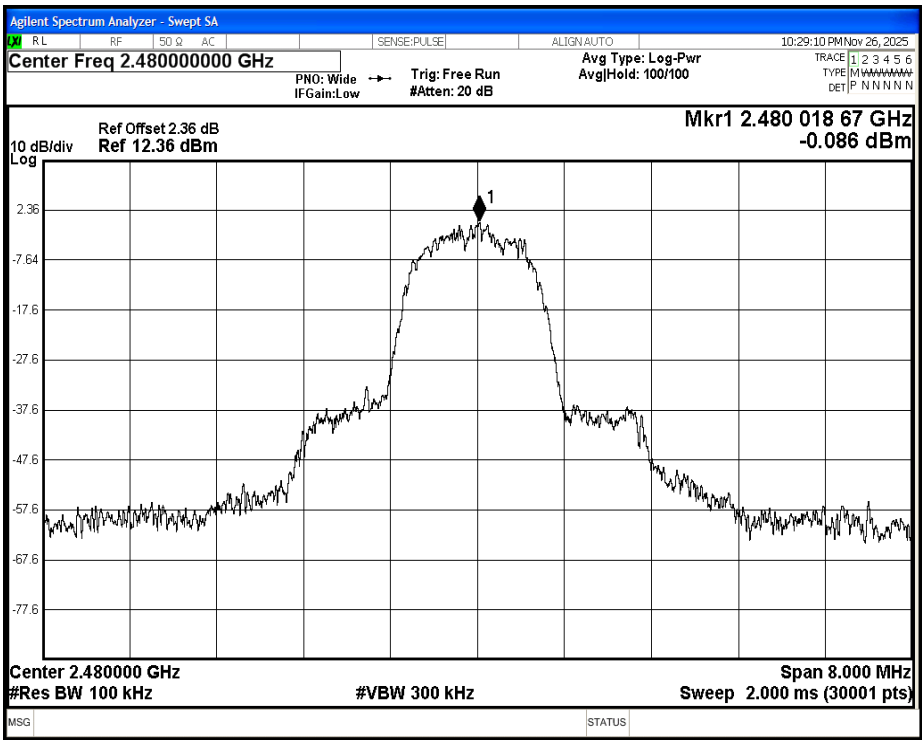
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



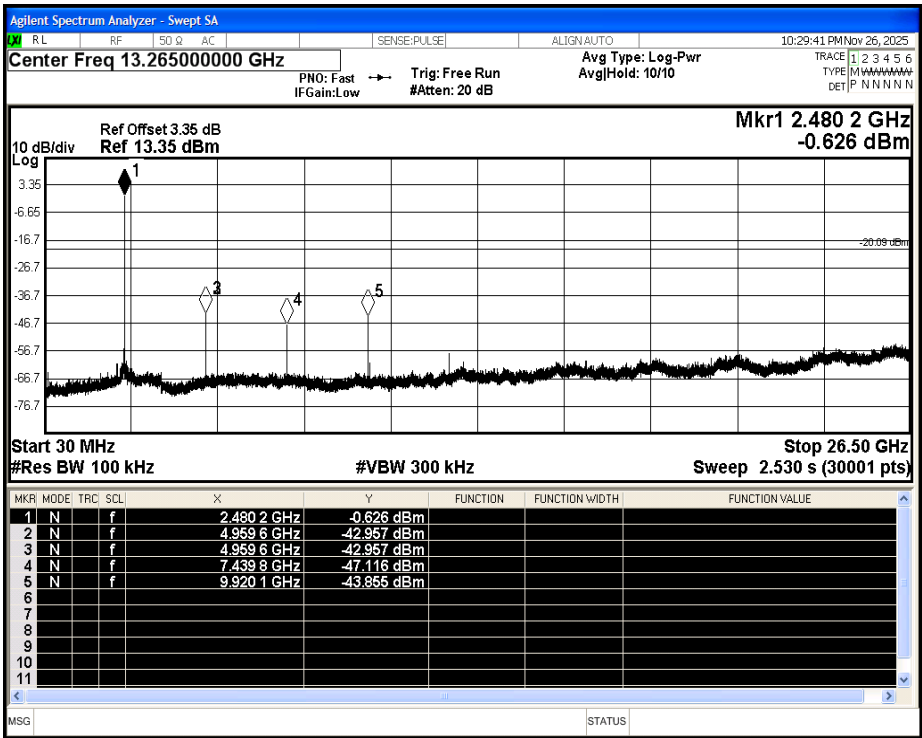
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

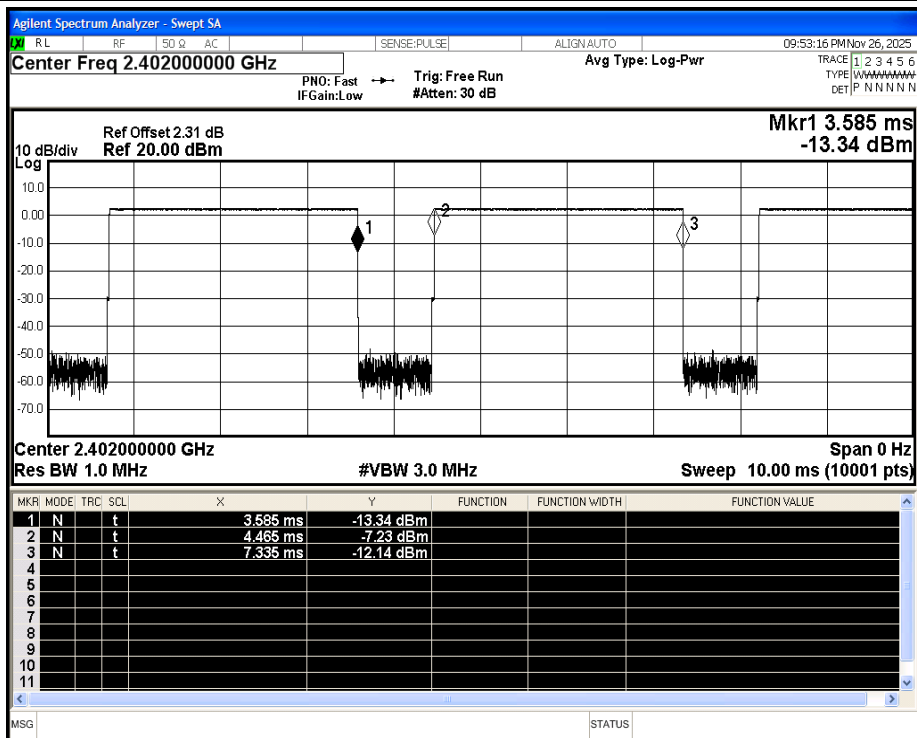
A.8 Duty Cycle

Test Result

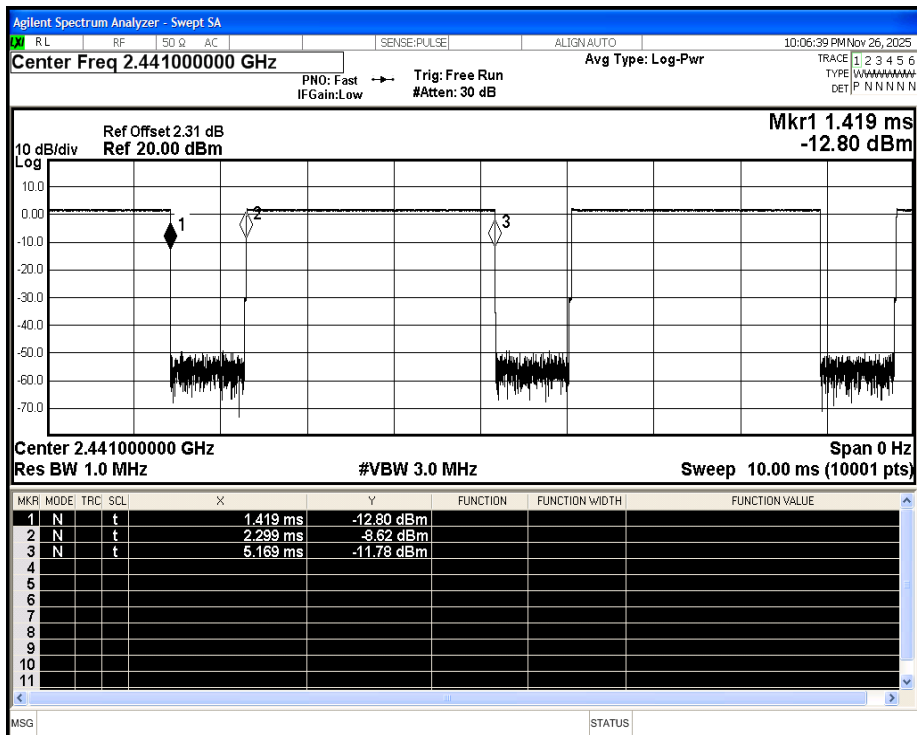
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.53	1.16	0.35
NVNT	1-DH5	2441	Ant1	76.53	1.16	0.35
NVNT	1-DH5	2480	Ant1	76.53	1.16	0.35
NVNT	2-DH5	2402	Ant1	76.85	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.85	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.85	1.14	0.35
NVNT	3-DH5	2402	Ant1	76.85	1.14	0.35
NVNT	3-DH5	2441	Ant1	76.85	1.14	0.35
NVNT	3-DH5	2480	Ant1	76.85	1.14	0.35

Note: offset=System attenuation +cable loss

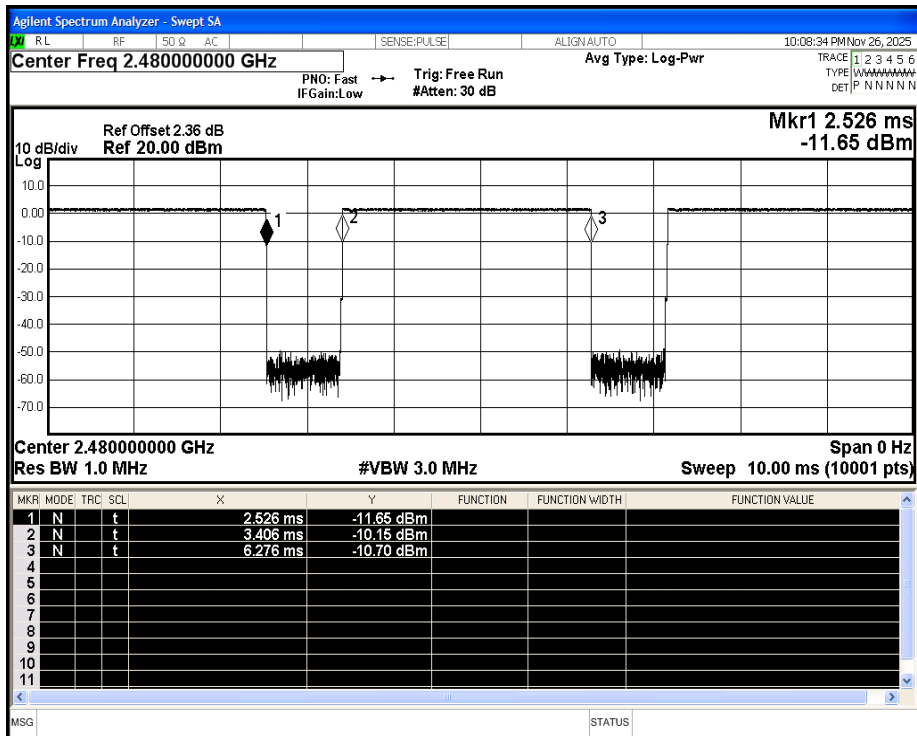
Test Graphs



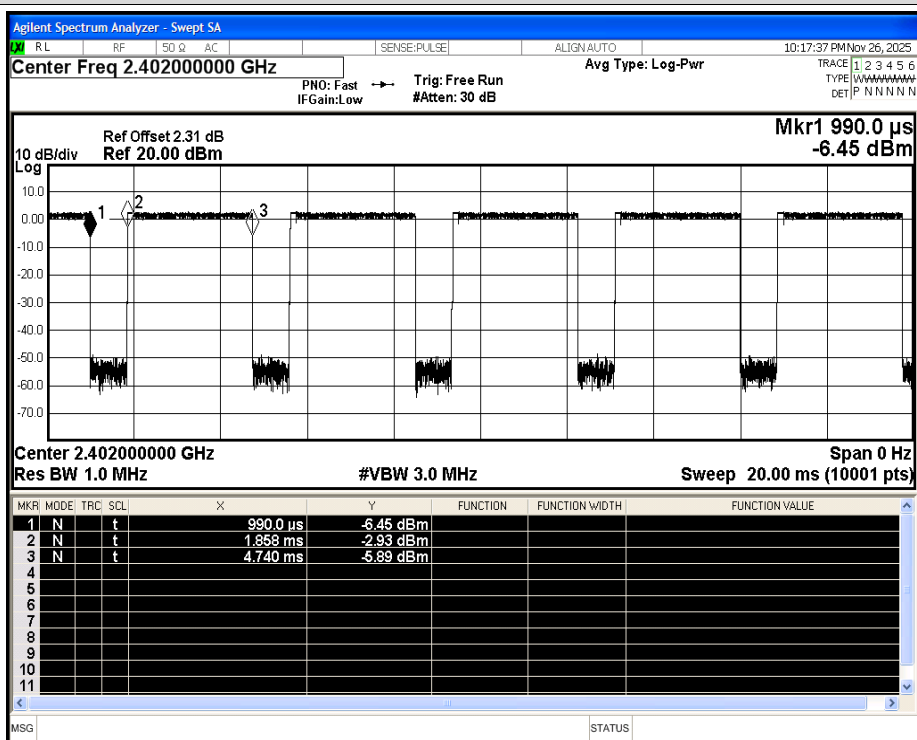
Duty Cycle NVNT 1-DH5 2402MHz Ant1



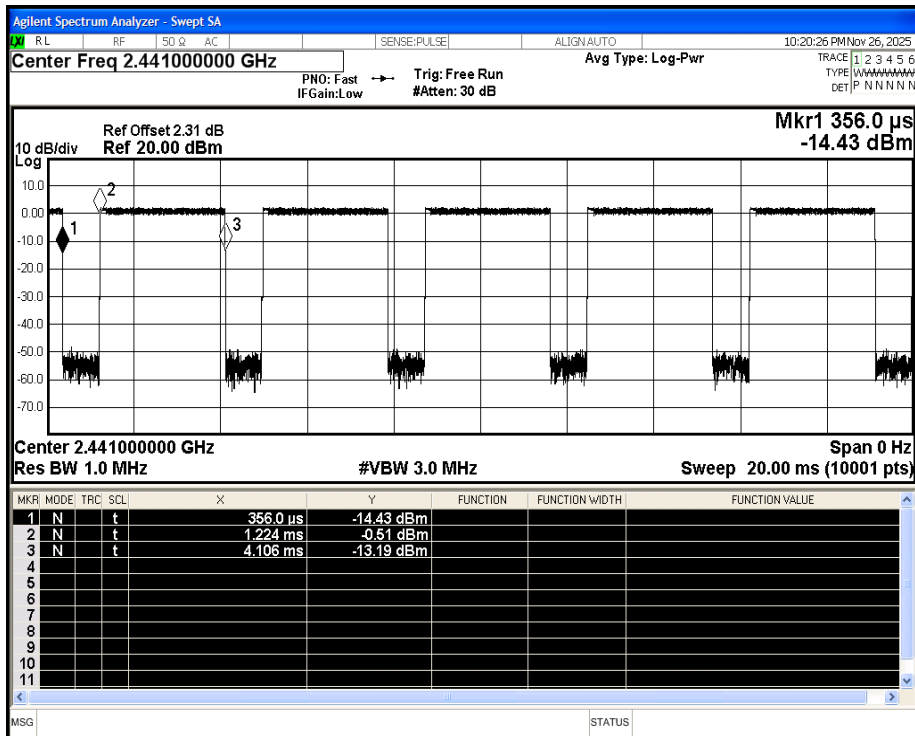
Duty Cycle NVNT 1-DH5 2441MHz Ant1



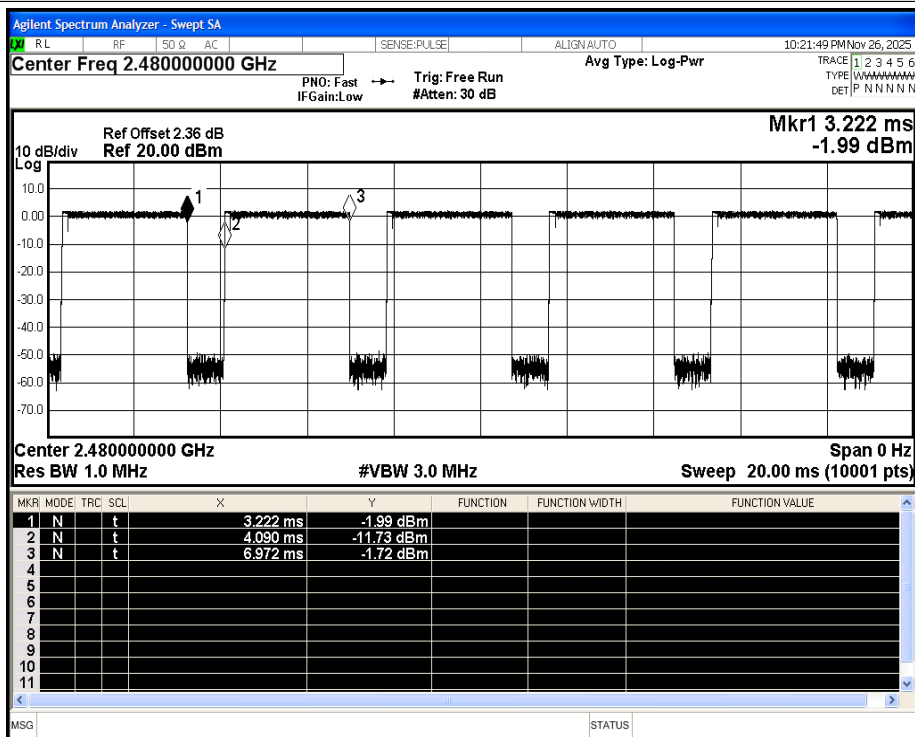
Duty Cycle NVNT 1-DH5 2480MHz Ant1



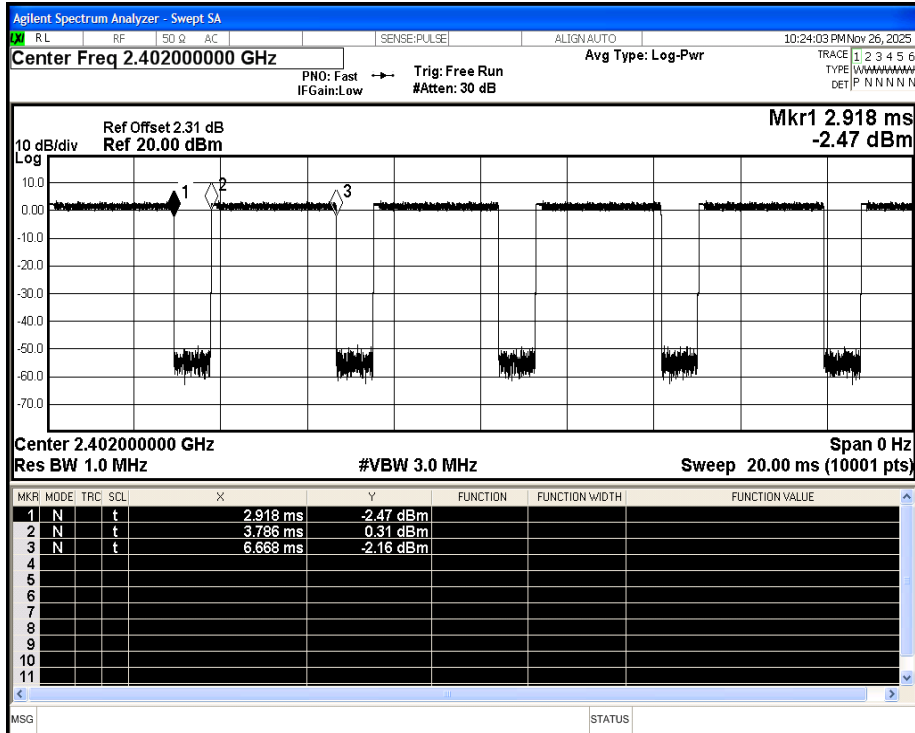
Duty Cycle NVNT 2-DH5 2402MHz Ant1



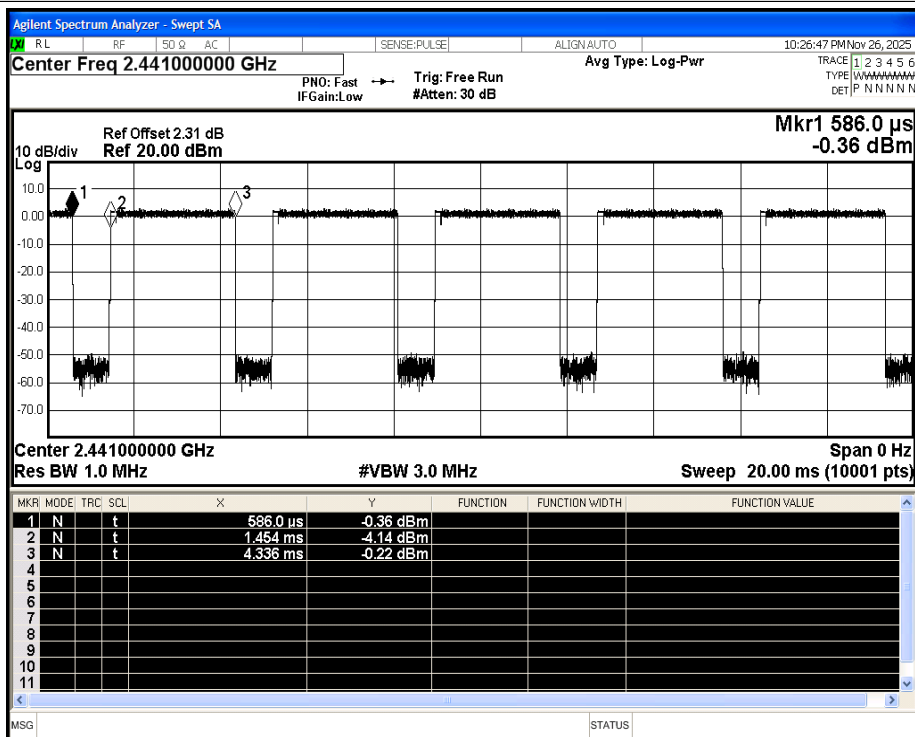
Duty Cycle NVNT 2-DH5 2441MHz Ant1



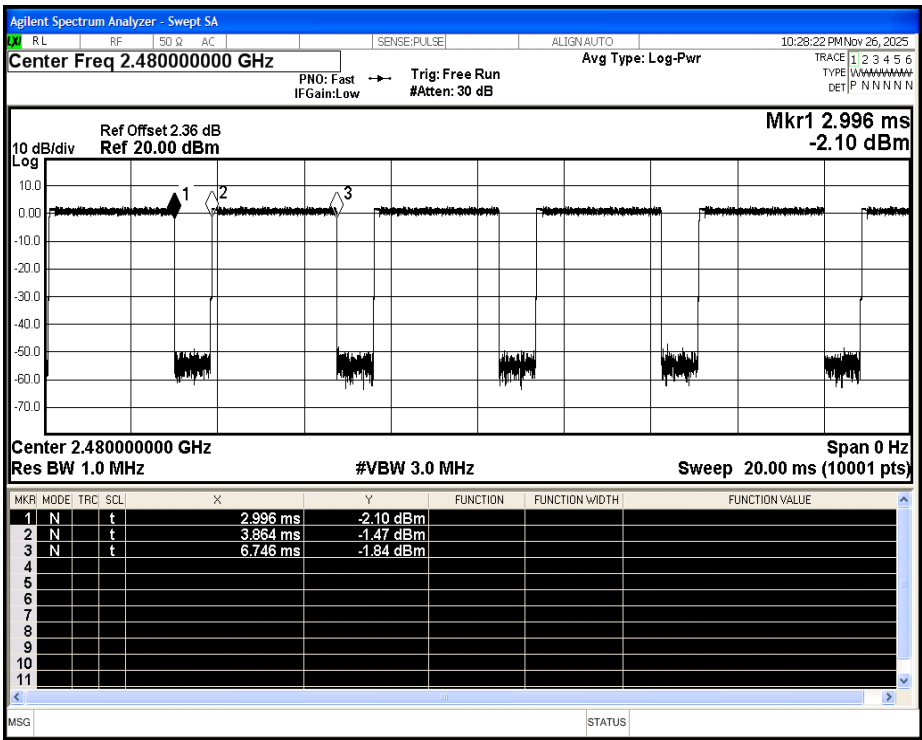
Duty Cycle NVNT 2-DH5 2480MHz Ant1



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



Duty Cycle NVNT 3-DH5 2480MHz Ant1

A.9 Restrict Band

Test Result

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.66	2	46.6	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.15	2	38.11	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.64	-45.61	2	51.65	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.968	-53.98	2	43.28	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-46.29	2	50.97	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-53.38	2	43.88	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-45.73	2	51.53	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.49	2	40.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.504	-43.82	2	53.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.528	-52.05	2	45.21	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.81	2	47.45	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.7	2	38.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.15	2	47.11	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.44	2	37.82	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.968	-45.57	2	51.69	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.968	-55.26	2	42	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-47.56	2	49.7	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-55.03	2	42.23	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.77	2	50.49	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.95	2	40.31	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2491.288	-43.53	2	53.73	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2491.552	-53.9	2	43.36	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.91	2	48.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.93	2	38.33	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.41	2	47.85	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.35	2	37.91	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.968	-45.68	2	51.58	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.968	-55.11	2	42.15	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-47.14	2	50.12	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-54.77	2	42.49	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.43	2	49.83	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.02	2	40.24	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2491.144	-44.98	2	52.28	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2491.576	-53.66	2	43.6	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.35	2	47.91	Peak	74	Pass

Guangzhou LCS Compliance Testing Laboratory Ltd.

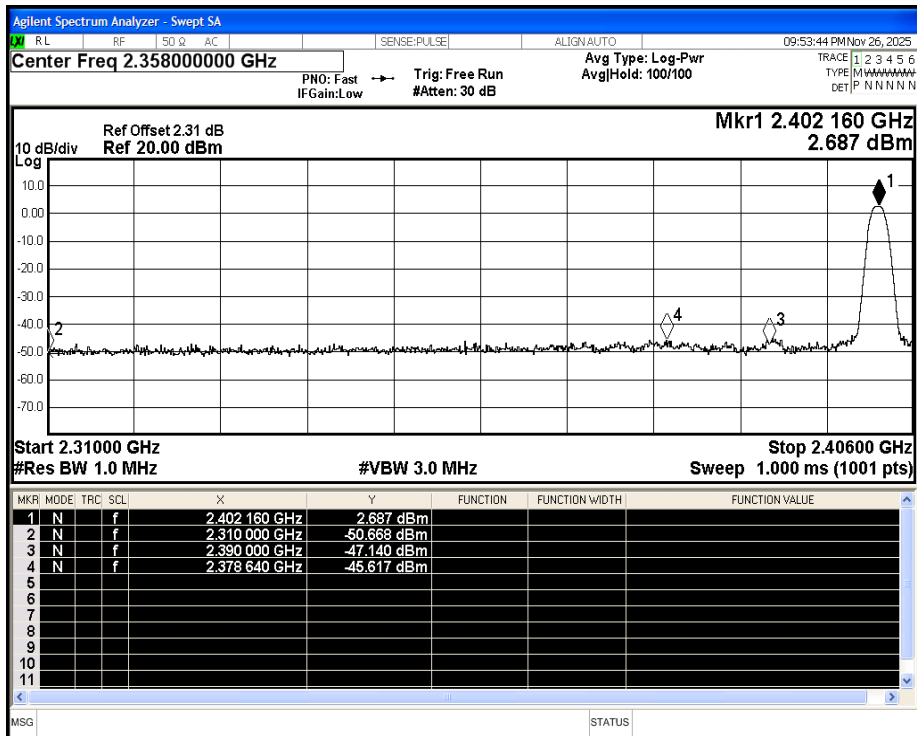
Add: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

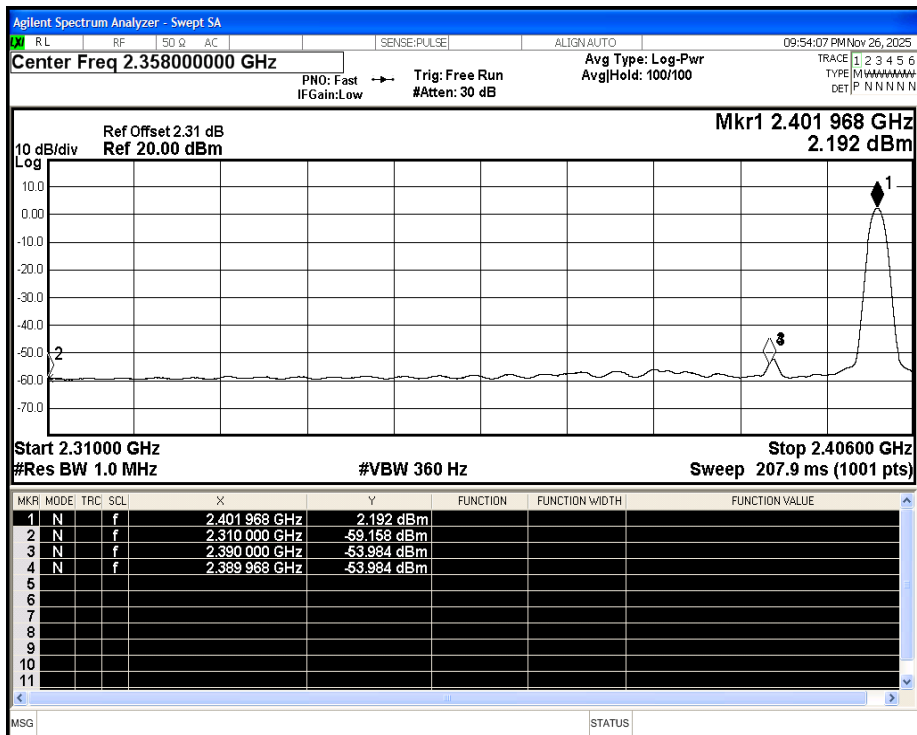
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.86	2	38.4	Average	54	Pass
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Note: offset=System attenuation +cable loss+Antenna Gain

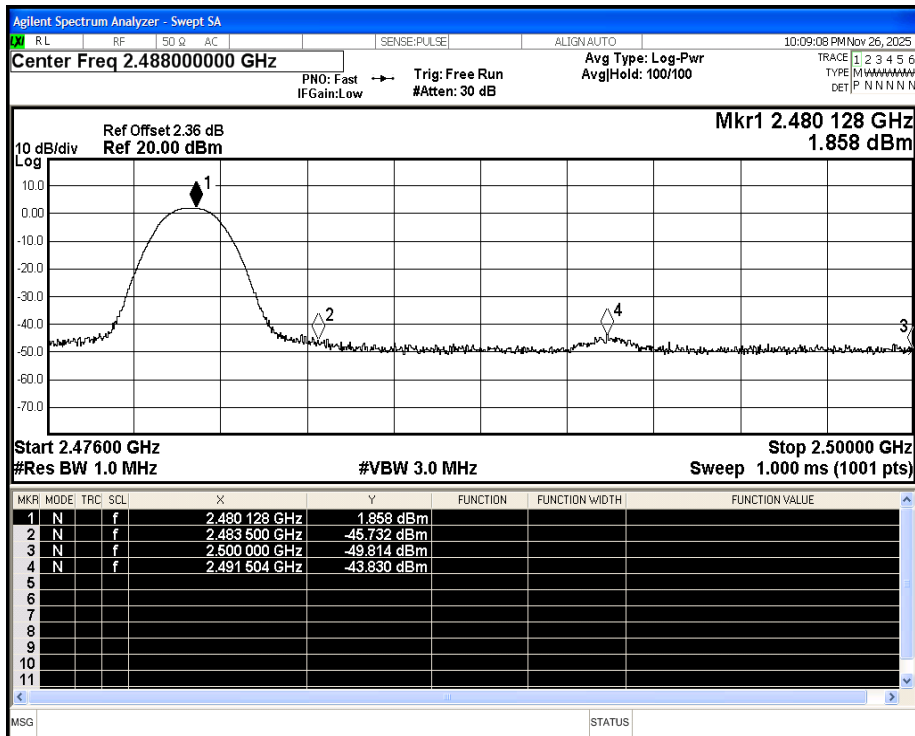
Test Graphs



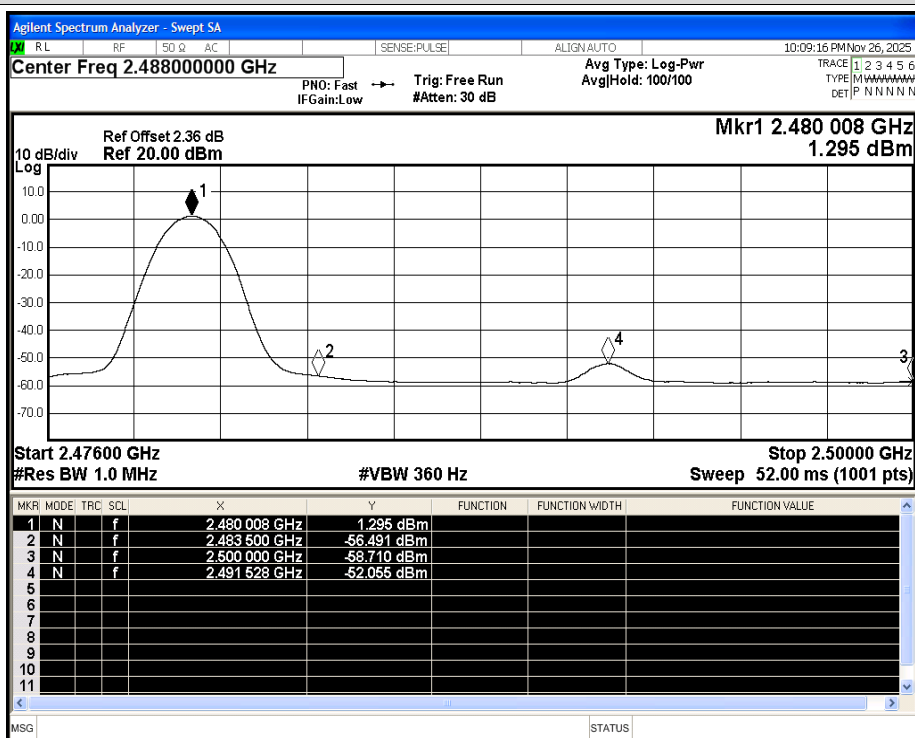
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



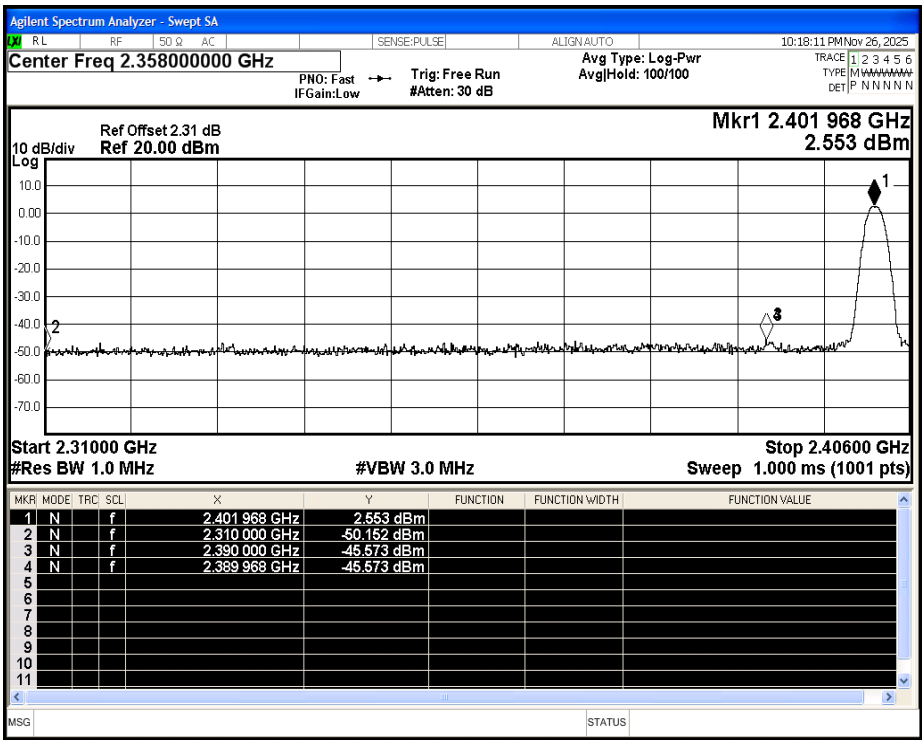
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



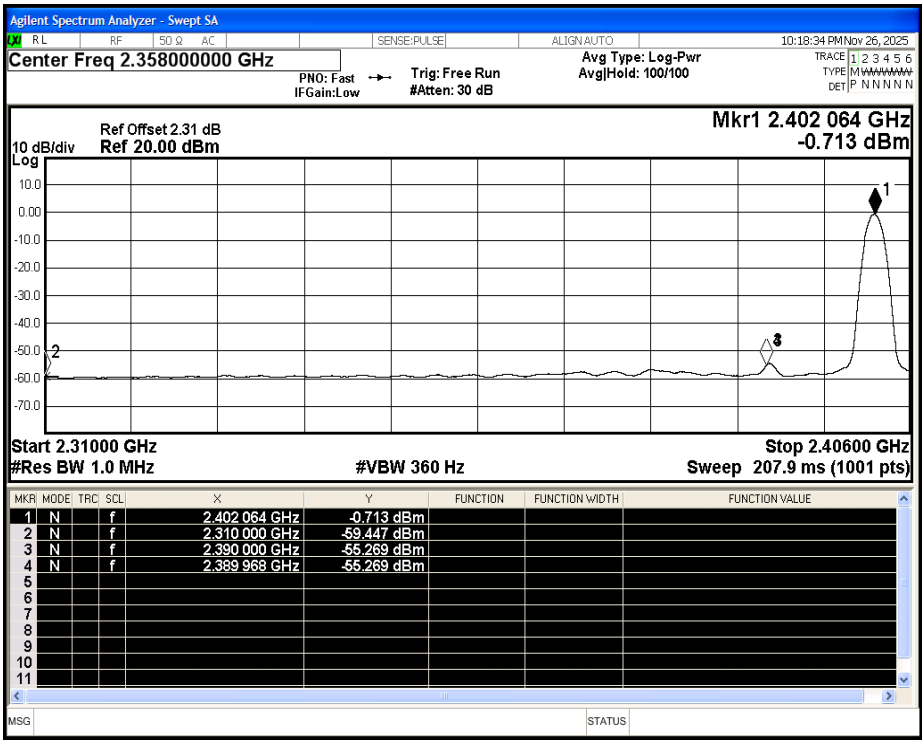
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



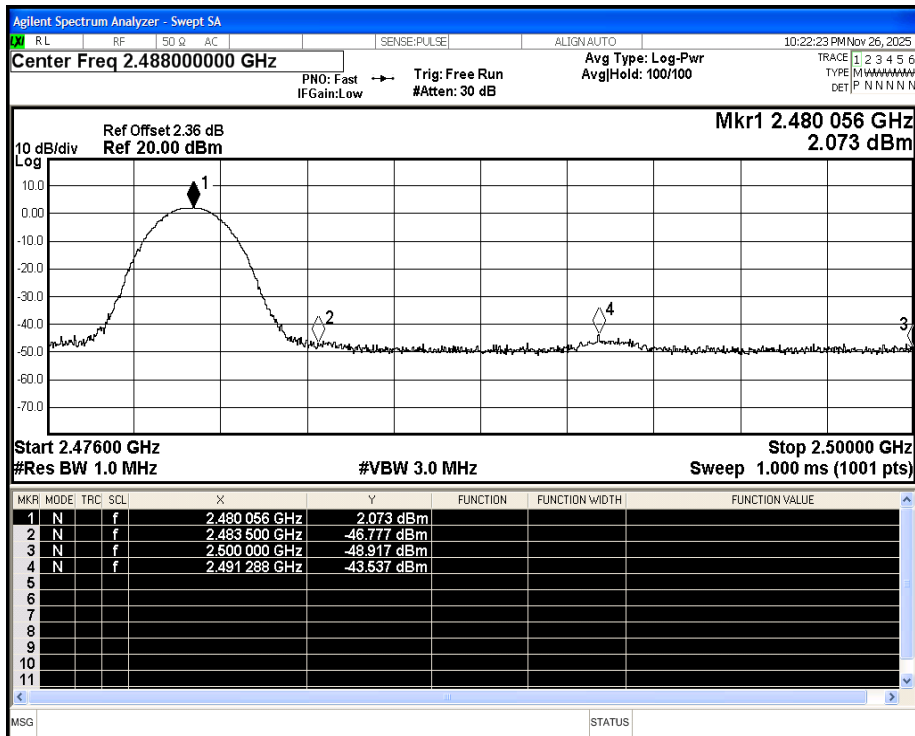
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



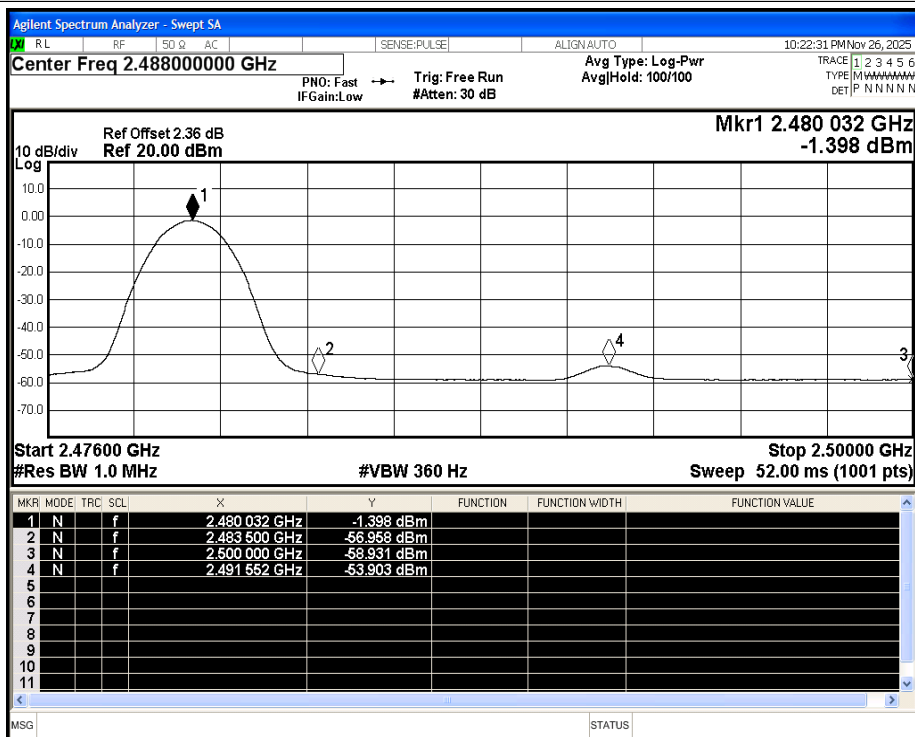
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



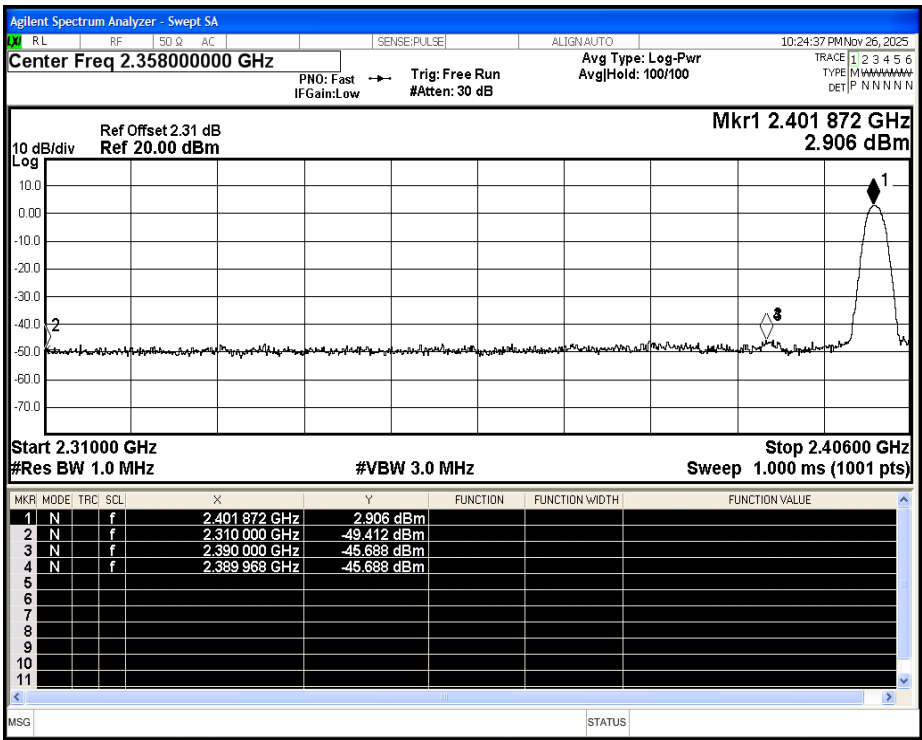
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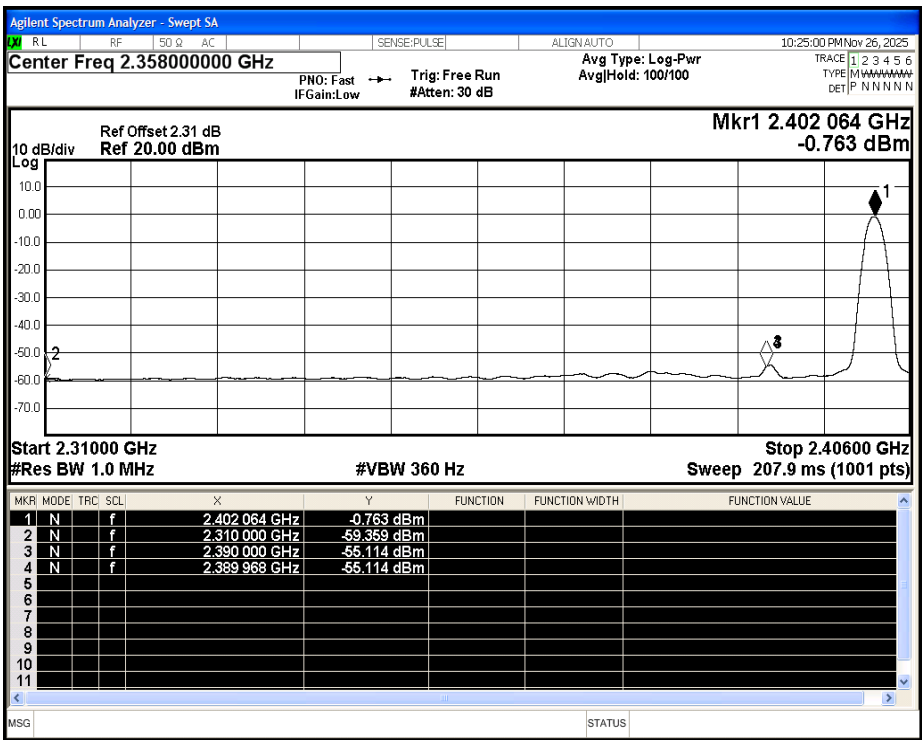
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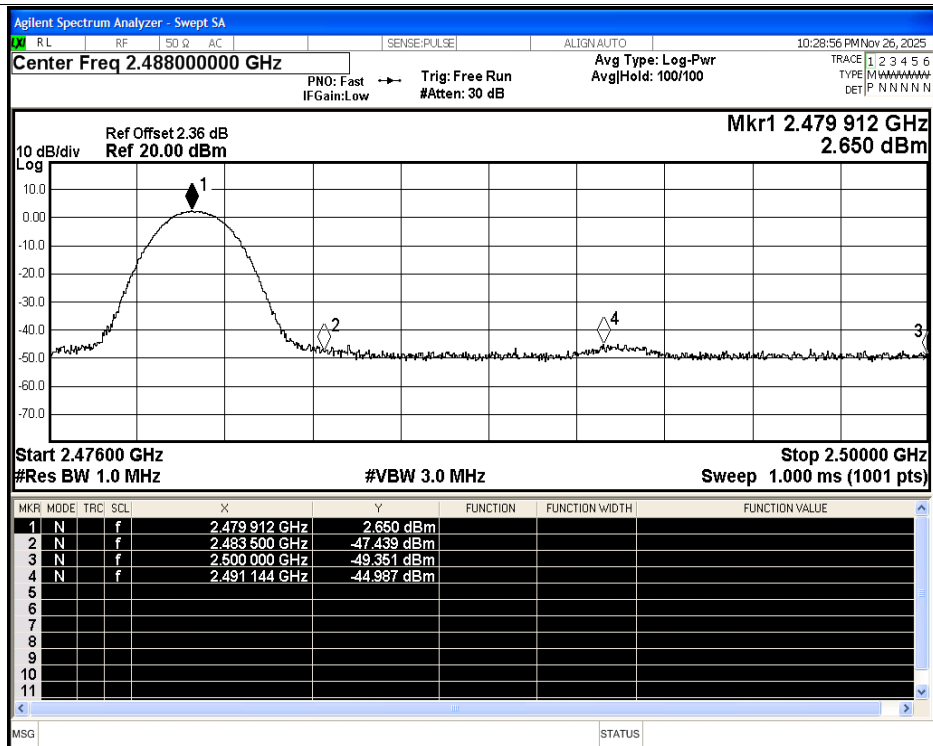
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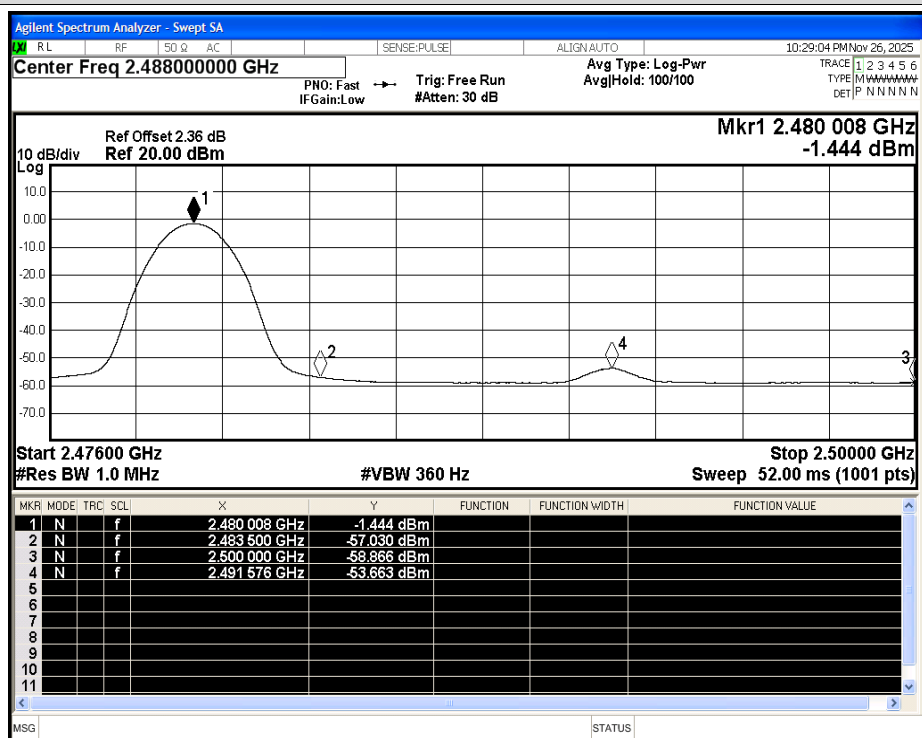
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average