

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Android TV Box

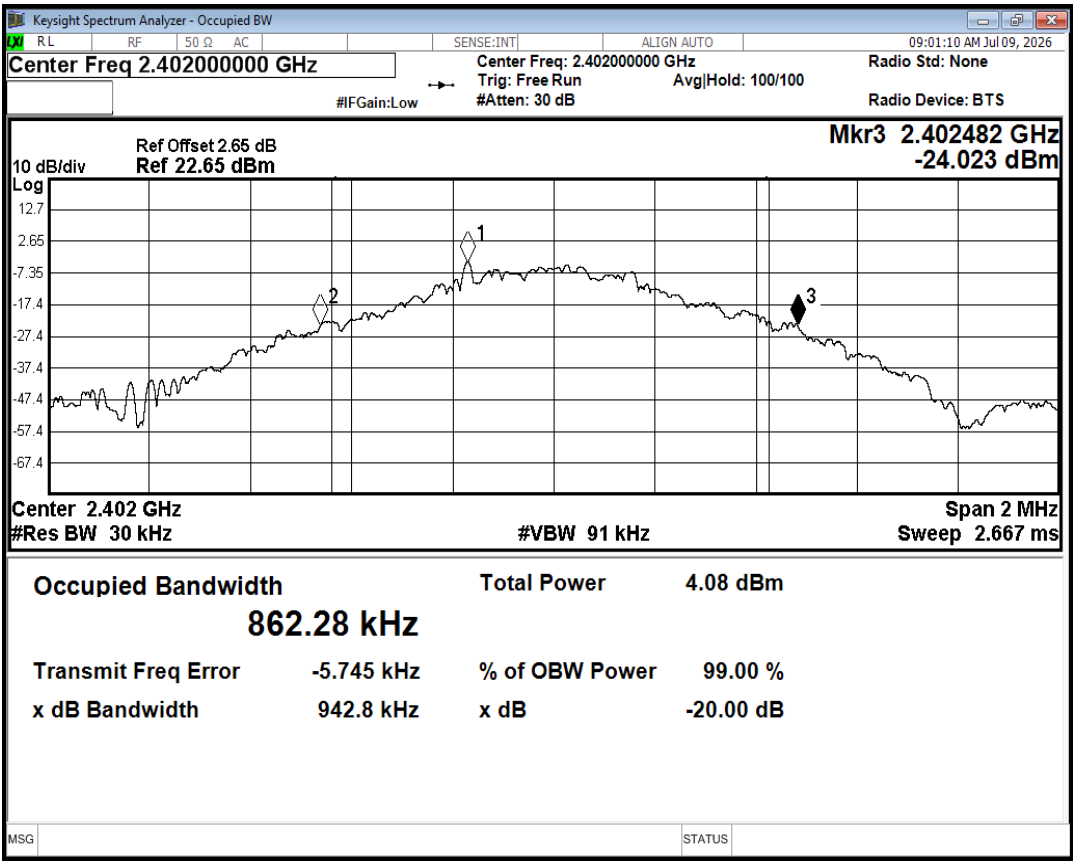
Test Model: Q11

Environmental Conditions

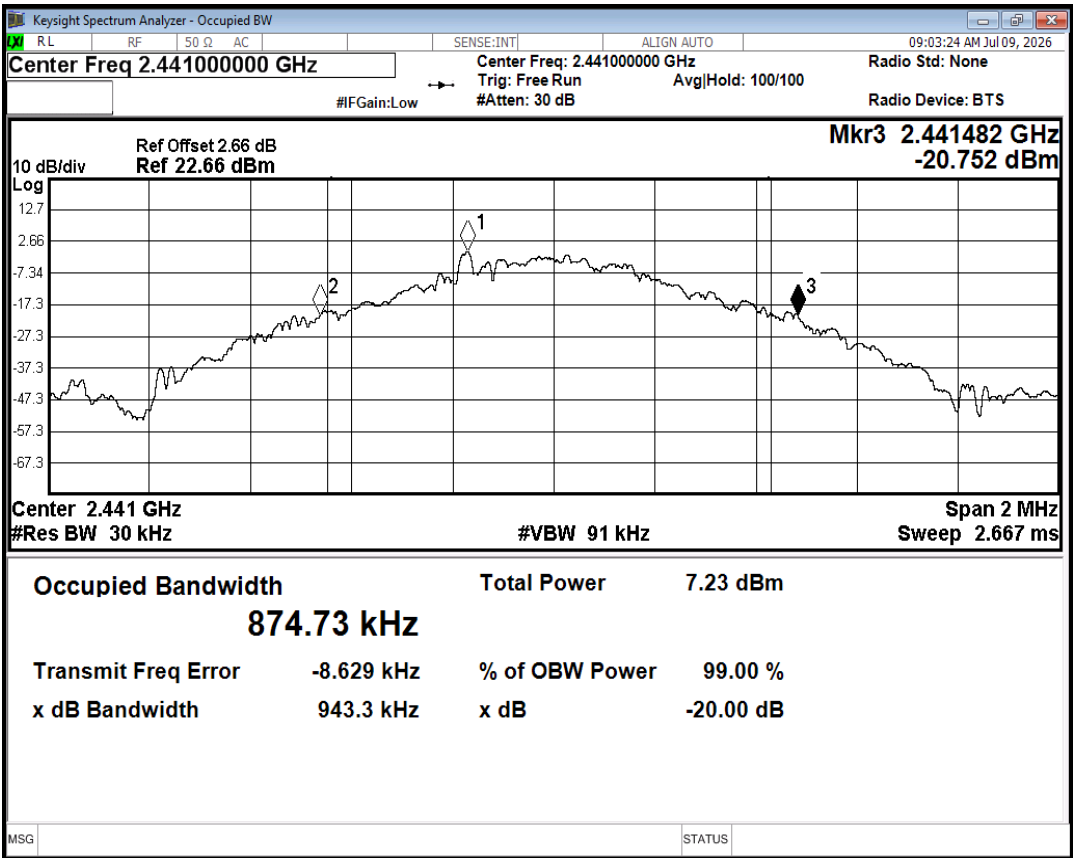
Temperature:	23.1°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Fengliu Tang

A.1 -20dB Bandwidth

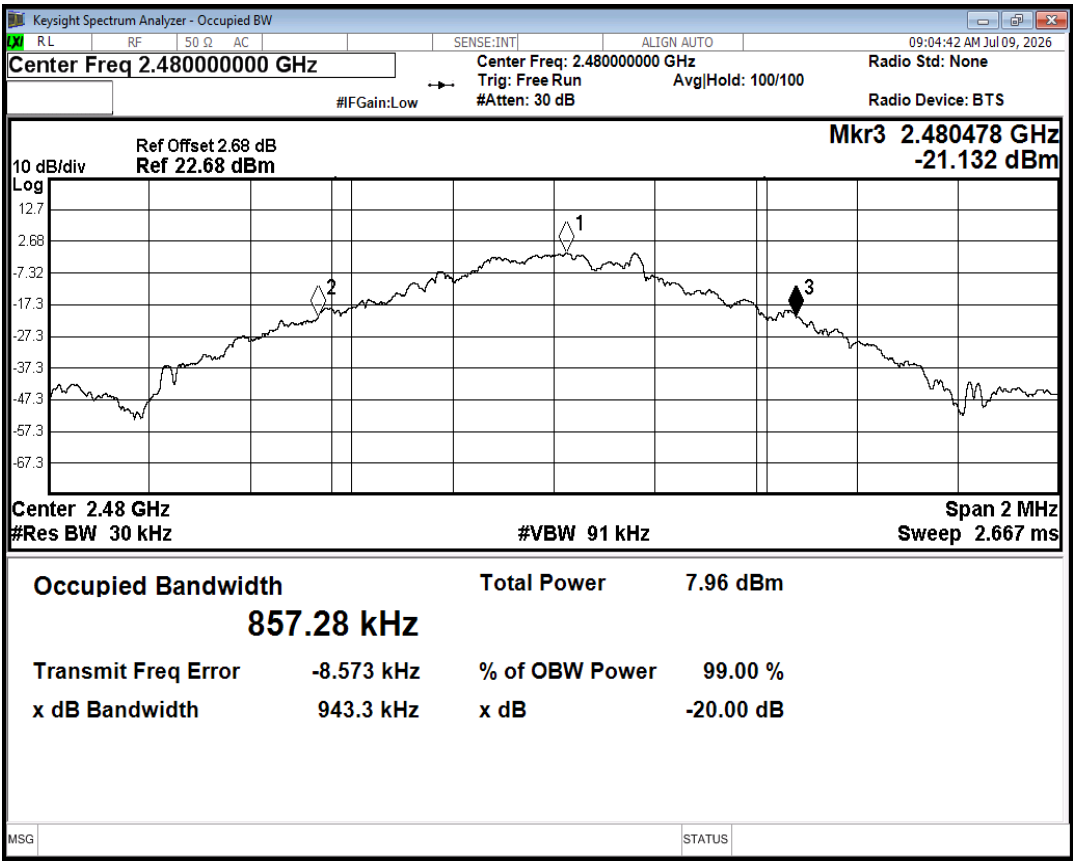
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.9428	0	Pass
NVNT	1-DH5	2441	Ant1	0.9433	0	Pass
NVNT	1-DH5	2480	Ant1	0.9433	0	Pass
NVNT	2-DH5	2402	Ant1	1.286	0	Pass
NVNT	2-DH5	2441	Ant1	1.29	0	Pass
NVNT	2-DH5	2480	Ant1	1.316	0	Pass
NVNT	3-DH5	2402	Ant1	1.298	0	Pass
NVNT	3-DH5	2441	Ant1	1.317	0	Pass
NVNT	3-DH5	2480	Ant1	1.294	0	Pass



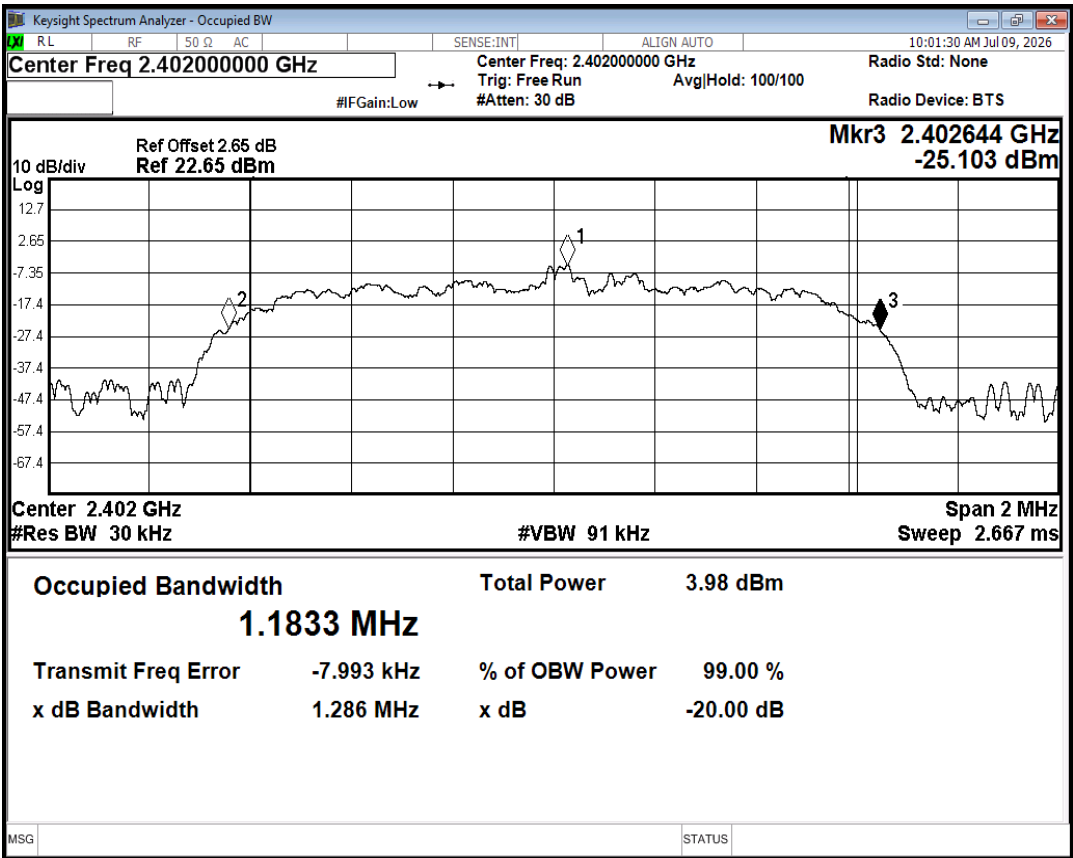
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



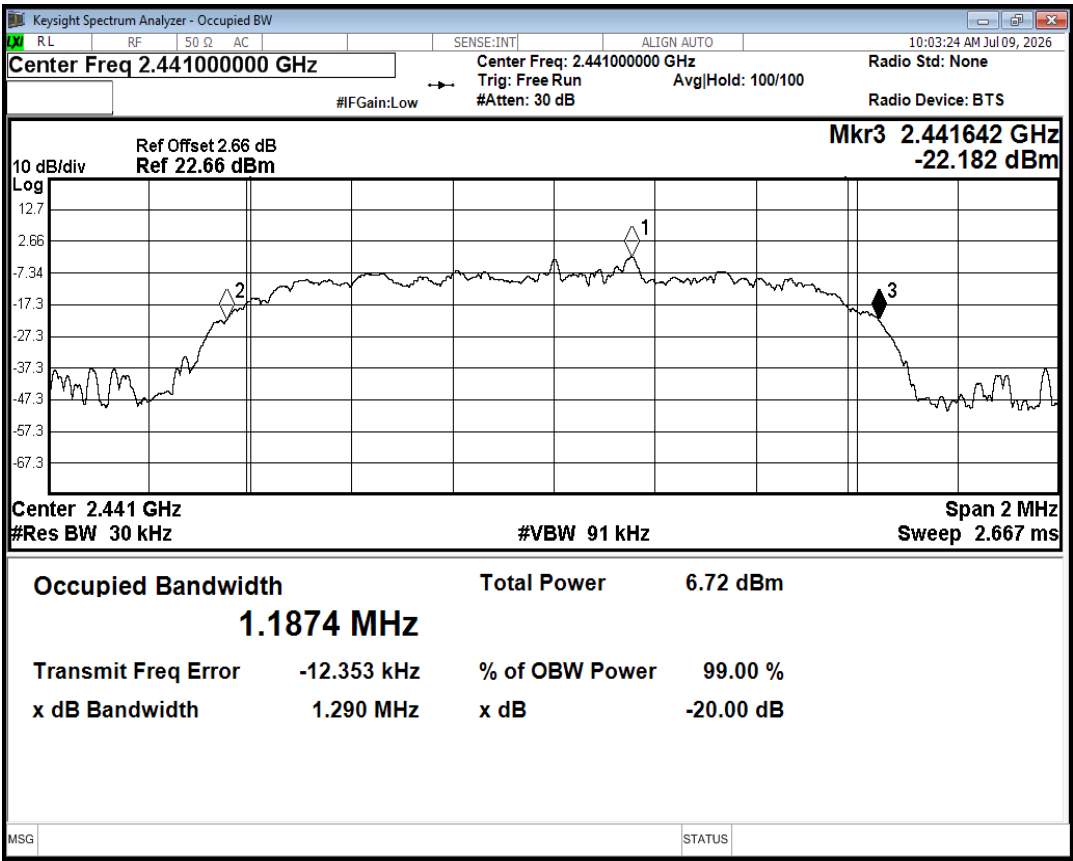
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



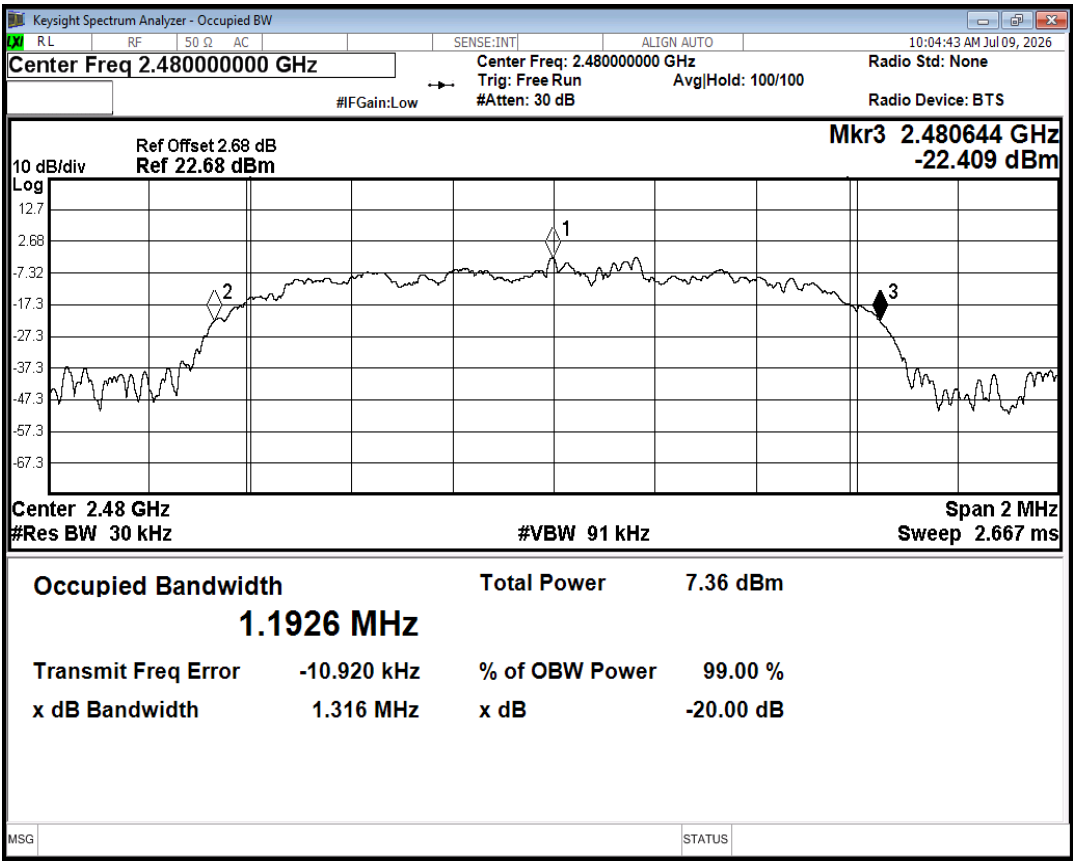
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



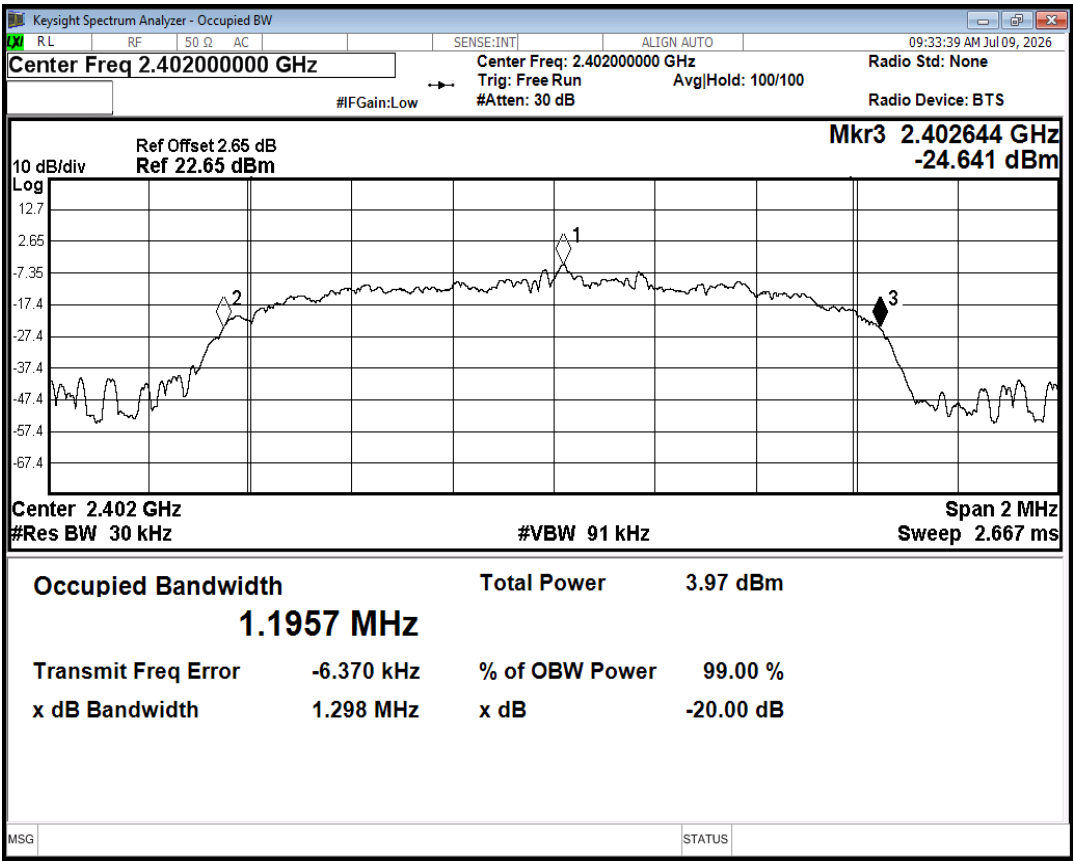
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



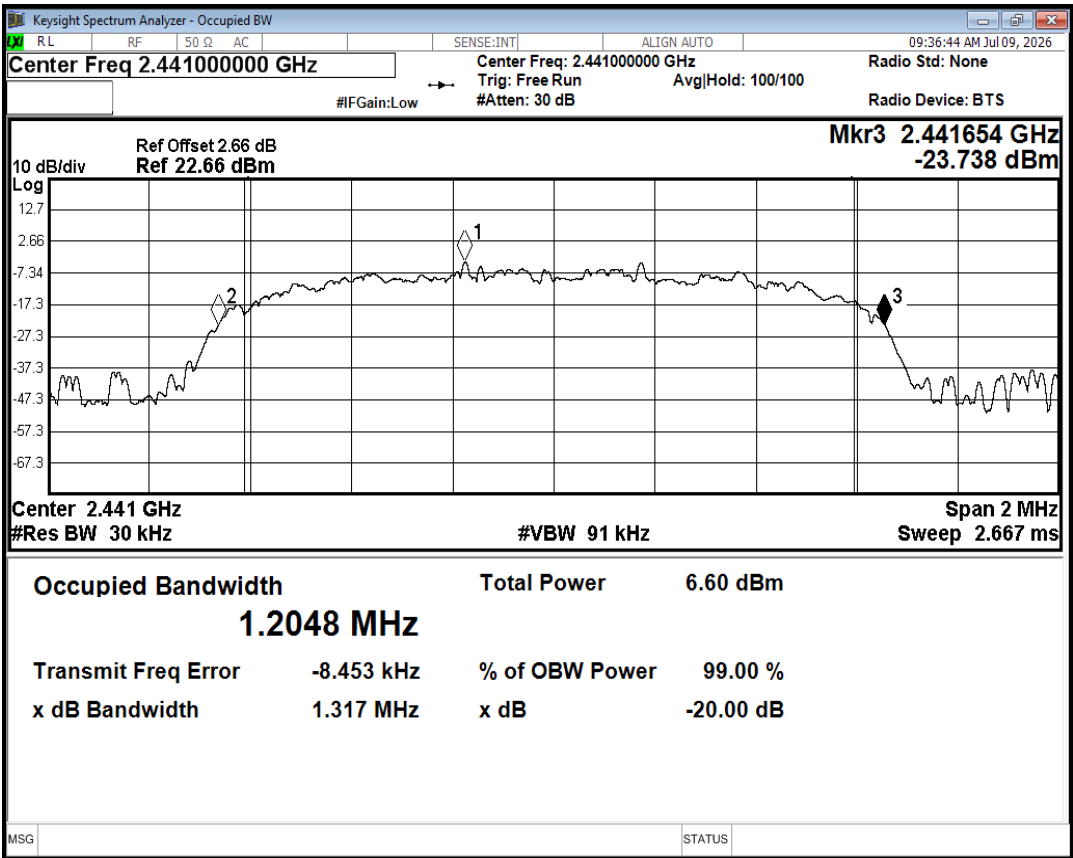
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



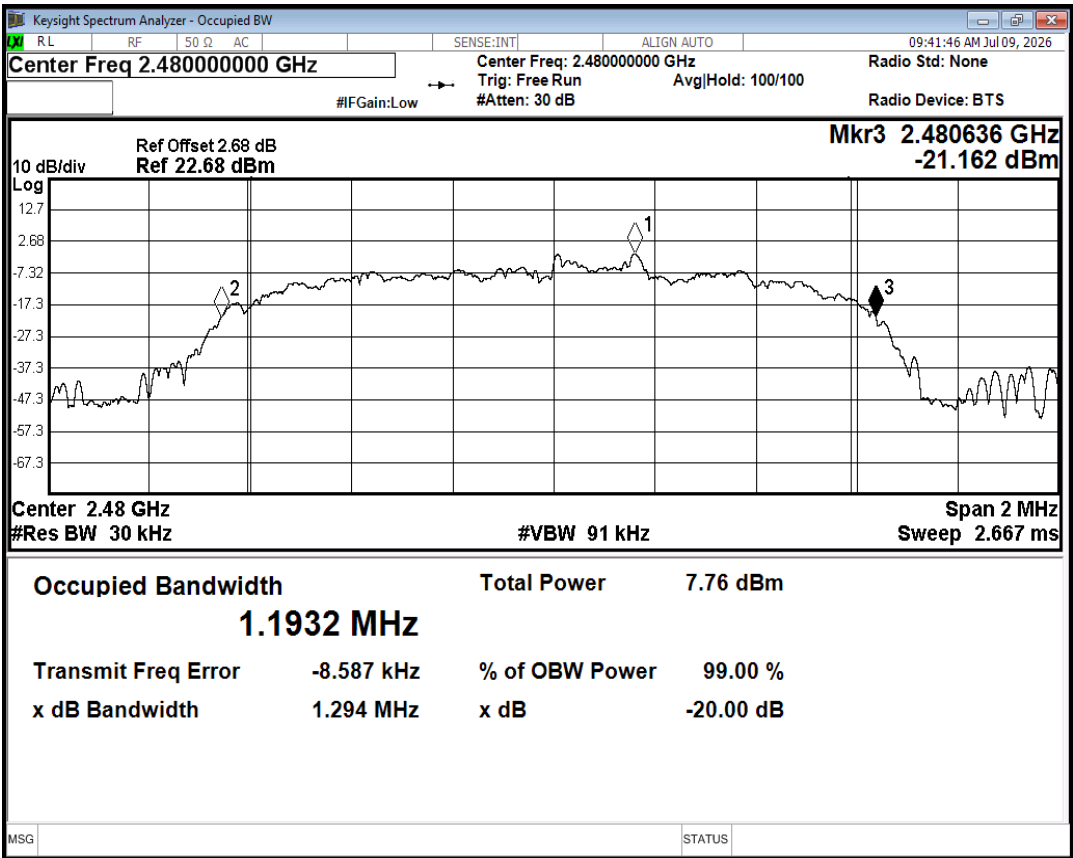
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



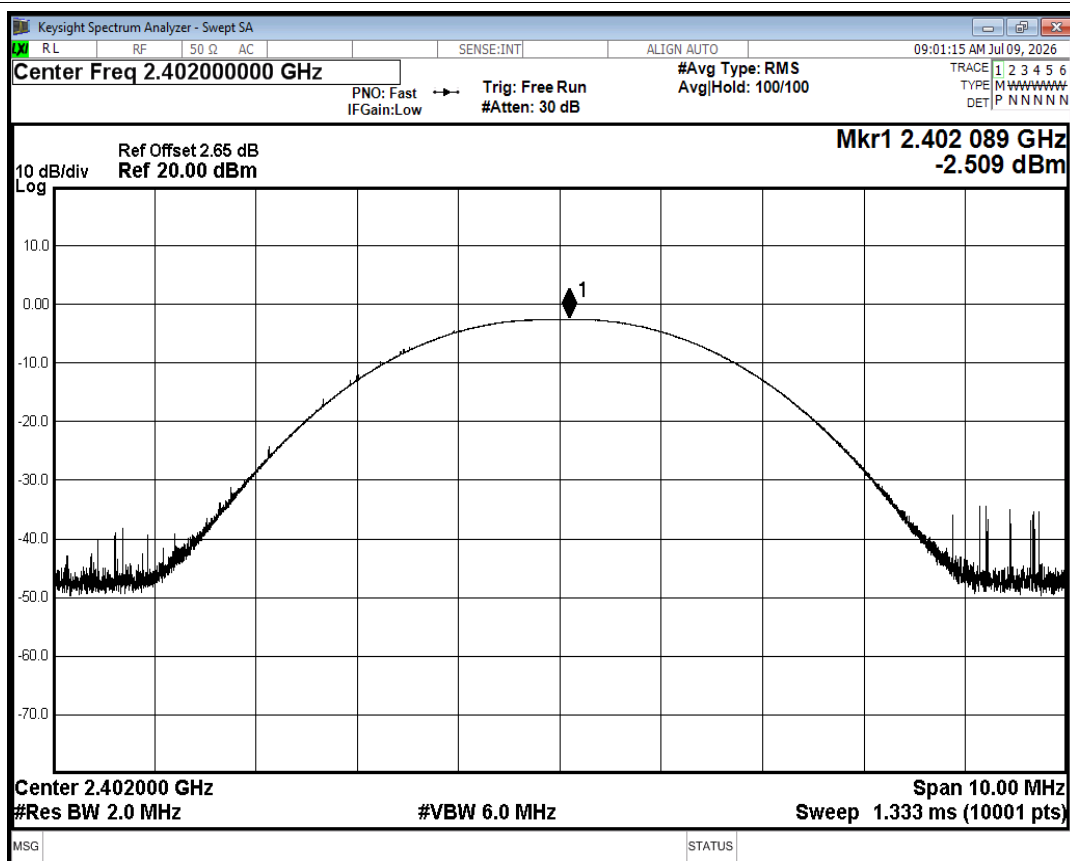
-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



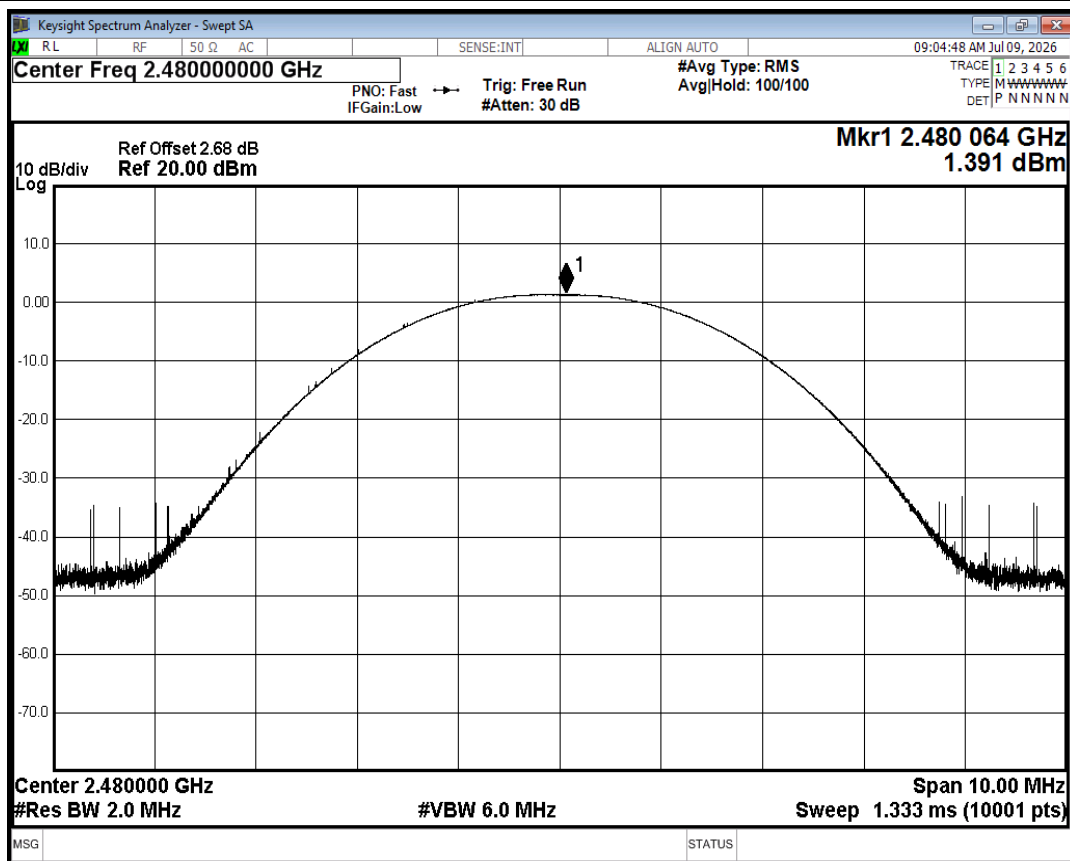
-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

A.2 Maximum Peak Conducted Output Power

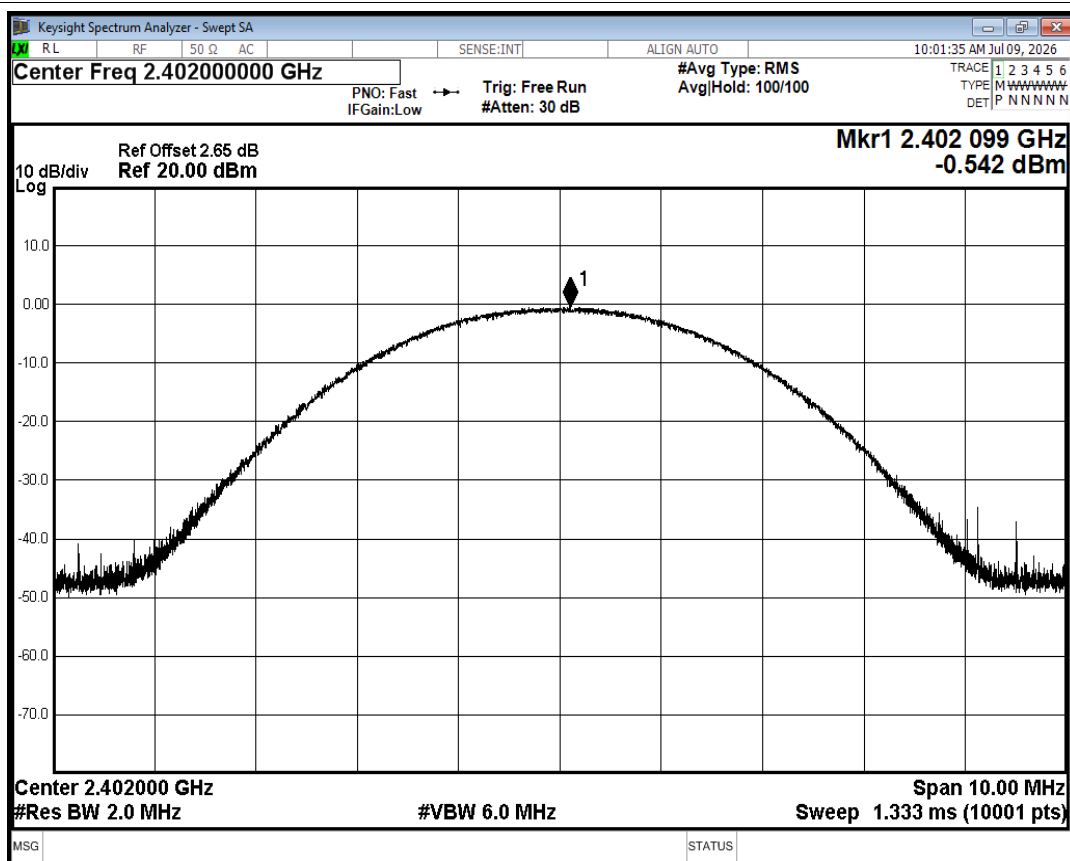
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.51	30	Pass
NVNT	1-DH5	2441	Ant1	0.96	30	Pass
NVNT	1-DH5	2480	Ant1	1.39	30	Pass
NVNT	2-DH5	2402	Ant1	-0.54	30	Pass
NVNT	2-DH5	2441	Ant1	2.55	30	Pass
NVNT	2-DH5	2480	Ant1	2.99	30	Pass
NVNT	3-DH5	2402	Ant1	-0.1	30	Pass
NVNT	3-DH5	2441	Ant1	3.02	30	Pass
NVNT	3-DH5	2480	Ant1	3.44	30	Pass



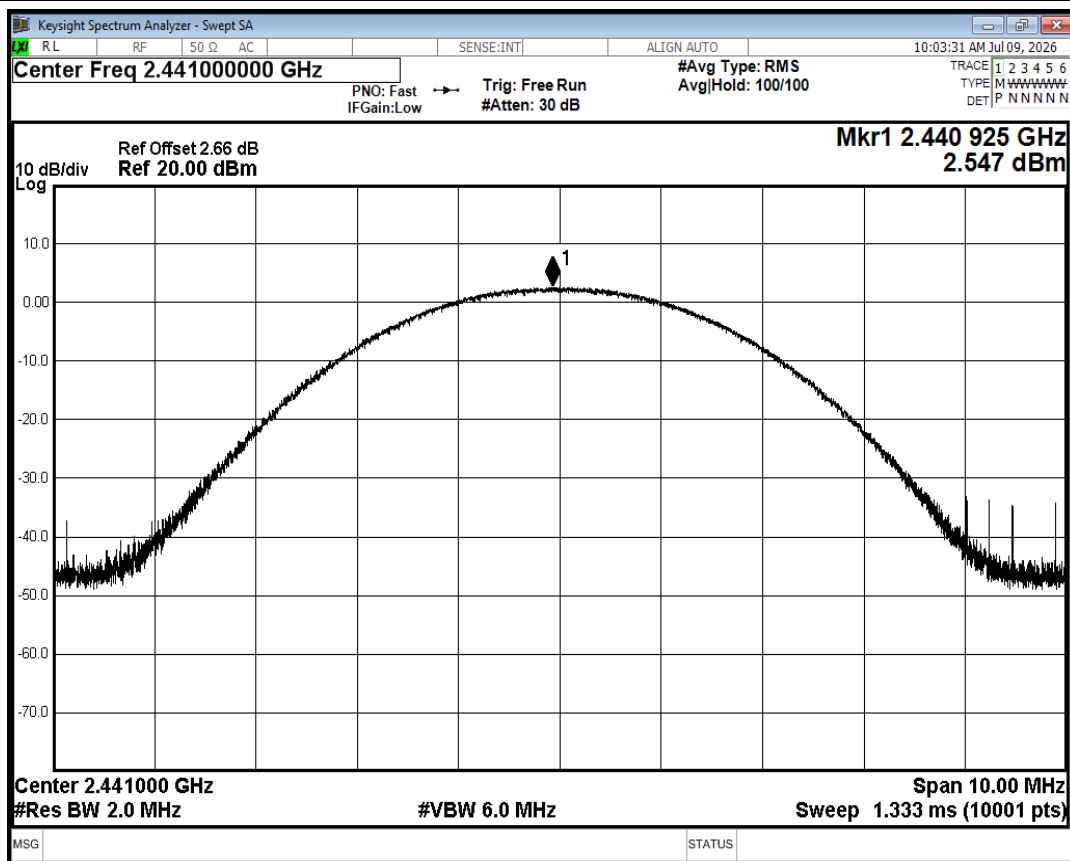
Peak Power NVNT 1-DH5 2402MHz Ant1



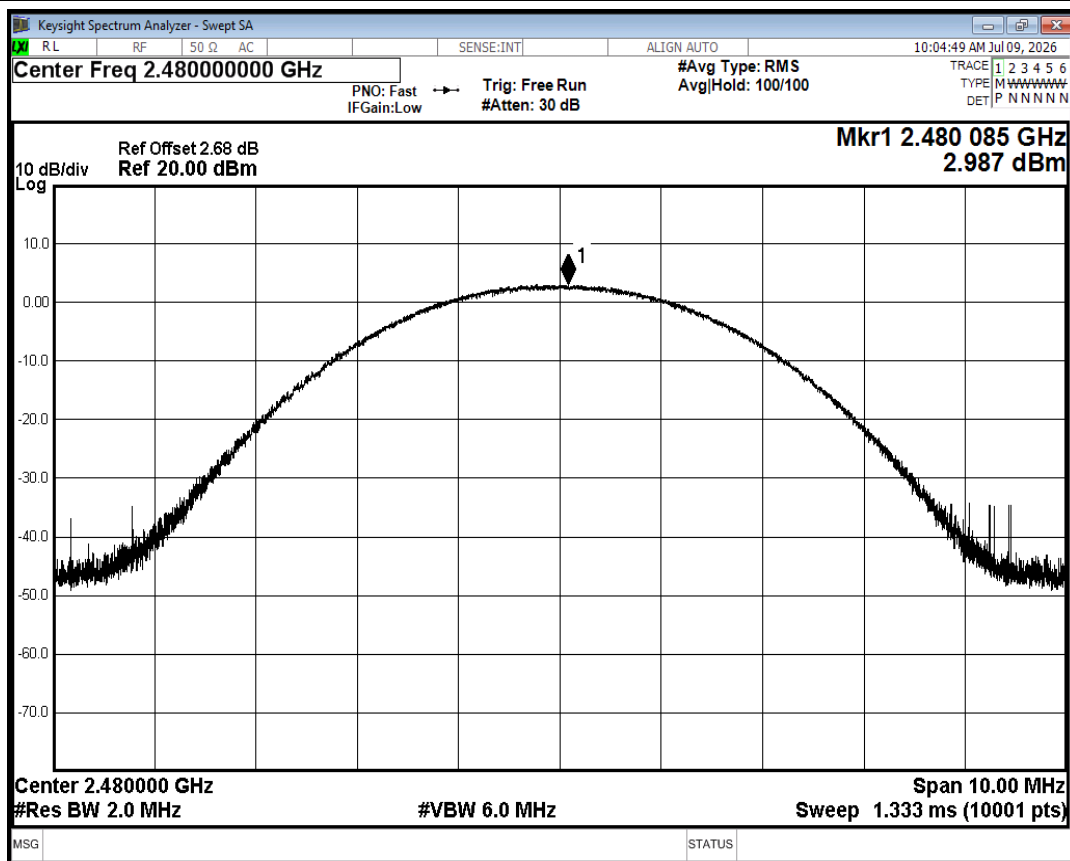
Peak Power NVNT 1-DH5 2480MHz Ant1



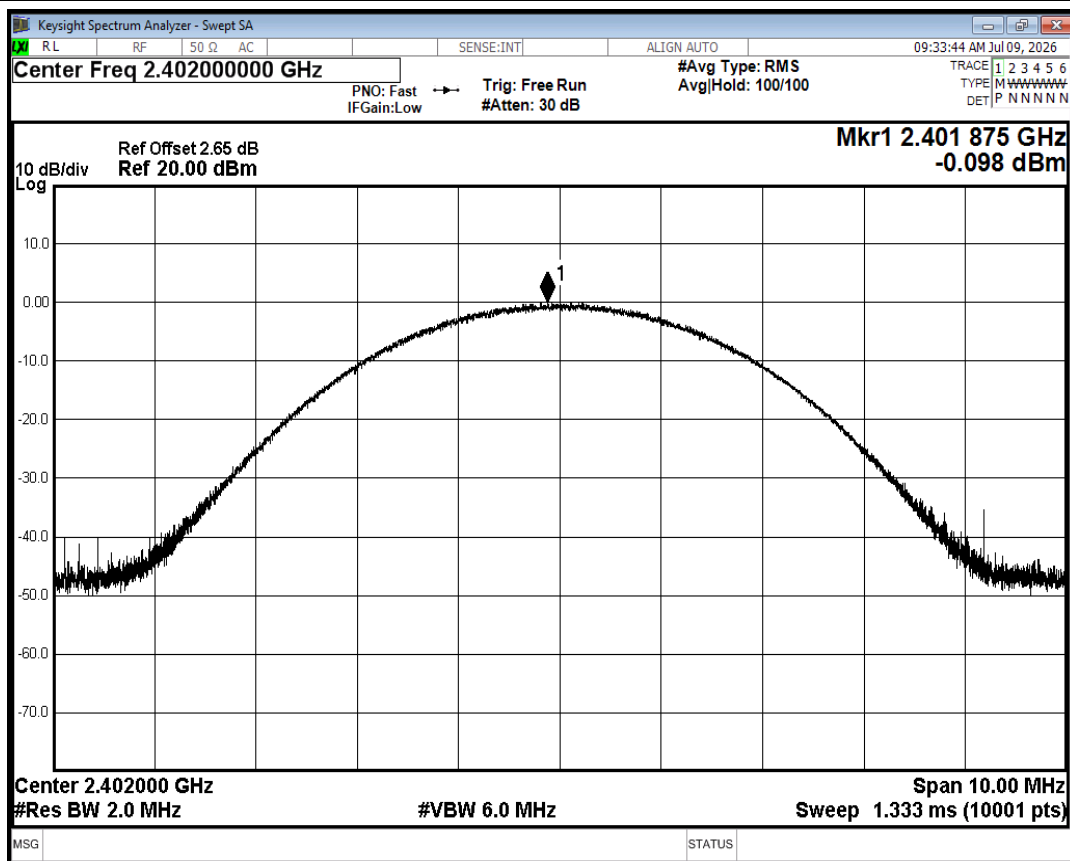
Peak Power NVNT 2-DH5 2402MHz Ant1



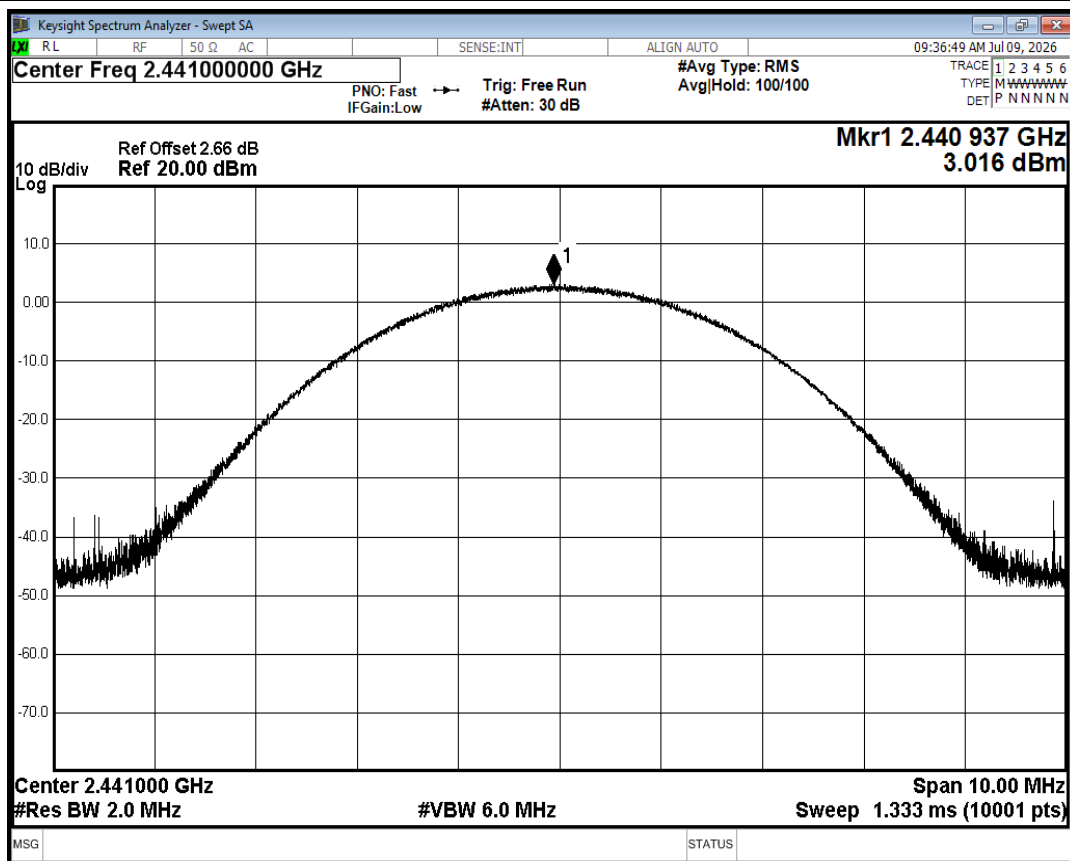
Peak Power NVNT 2-DH5 2441MHz Ant1



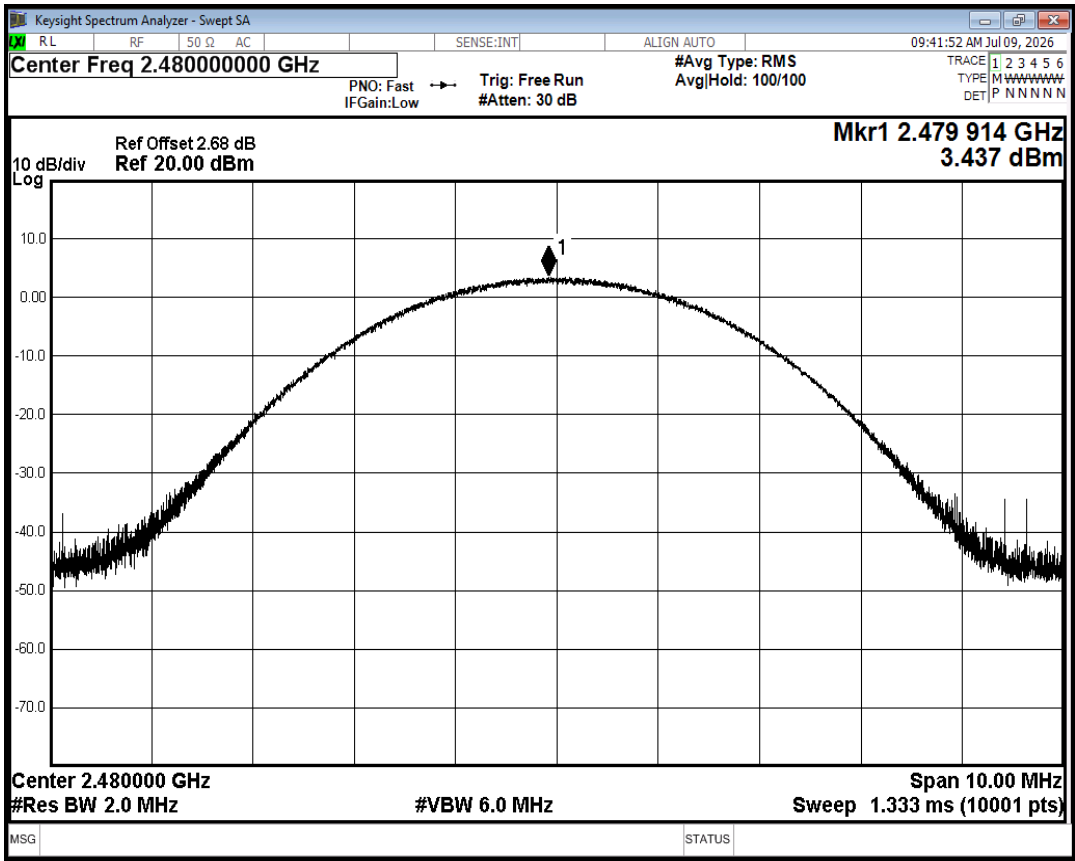
Peak Power NVNT 2-DH5 2480MHz Ant1



Peak Power NVNT 3-DH5 2402MHz Ant1



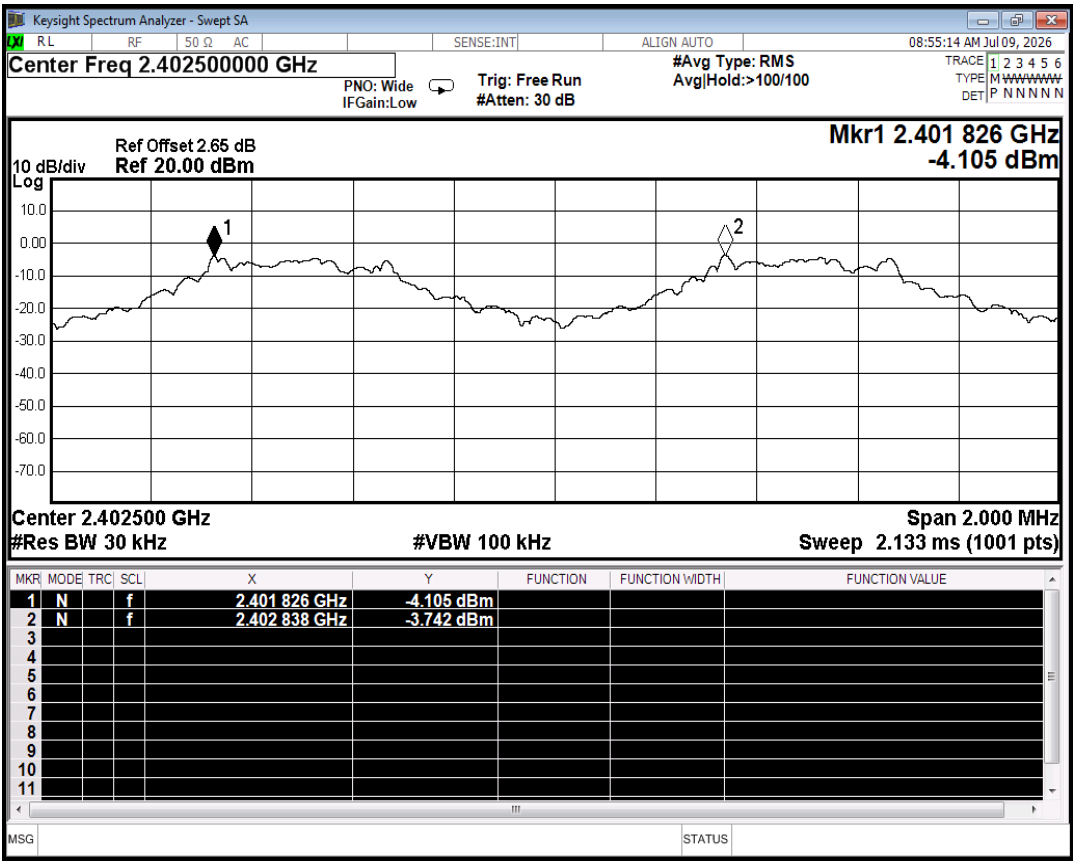
Peak Power NVNT 3-DH5 2441MHz Ant1



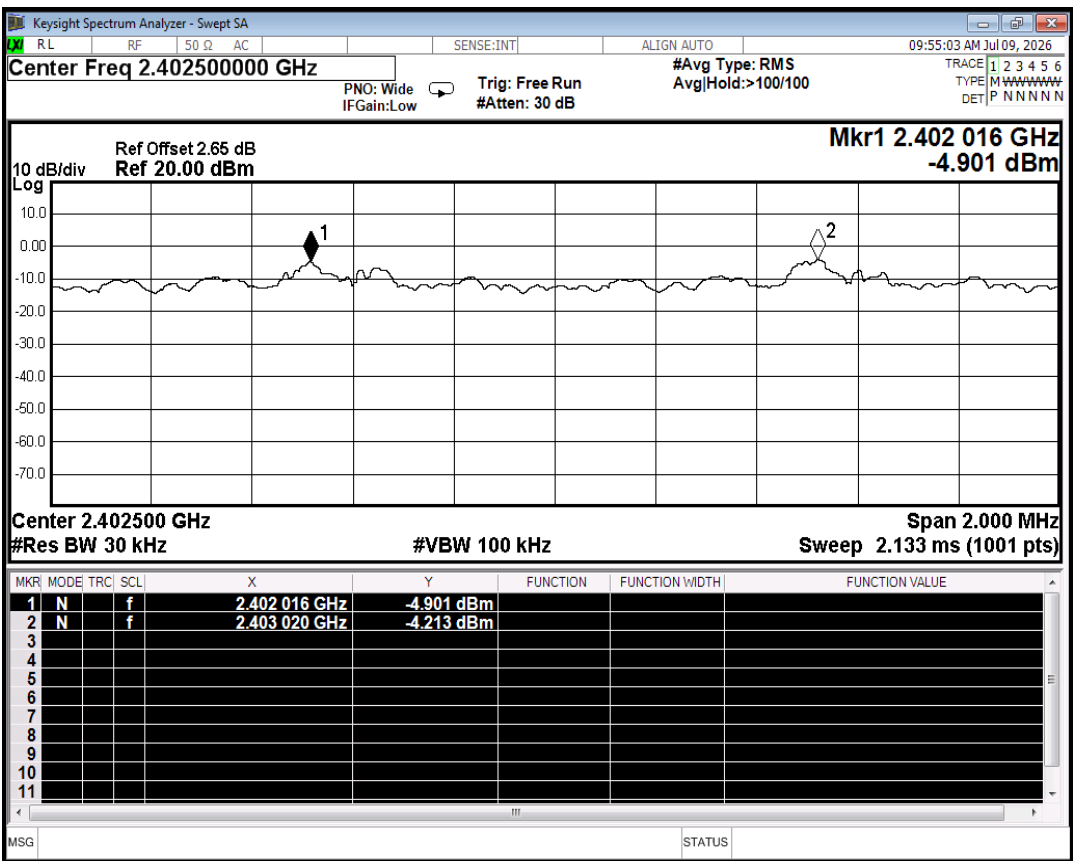
Peak Power NVNT 3-DH5 2480MHz Ant1

A.3 Carrier Frequencies Separation

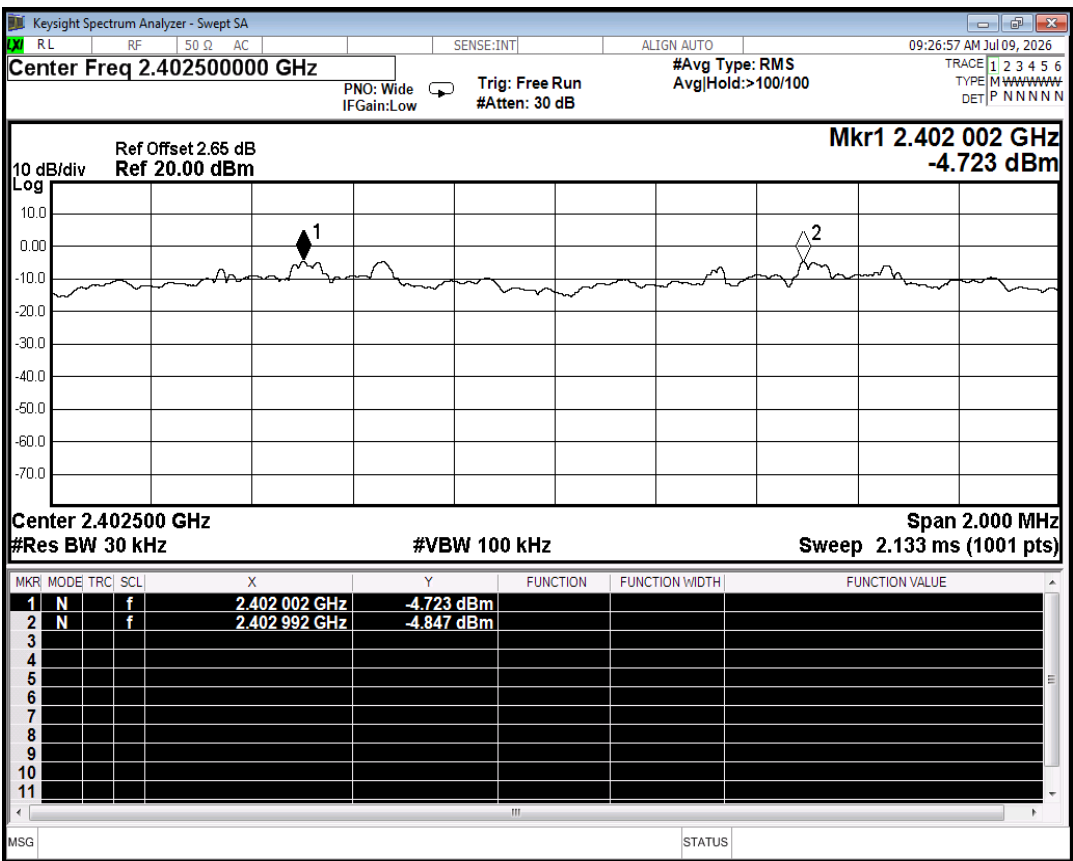
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.826	2402.838	1.012	0.626	Pass
NVNT	2-DH5	Ant1	2402.016	2403.02	1.004	0.857	Pass
NVNT	3-DH5	Ant1	2402.002	2402.992	0.99	0.855	Pass



CFS NVNT 1-DH5 2402MHz Ant1



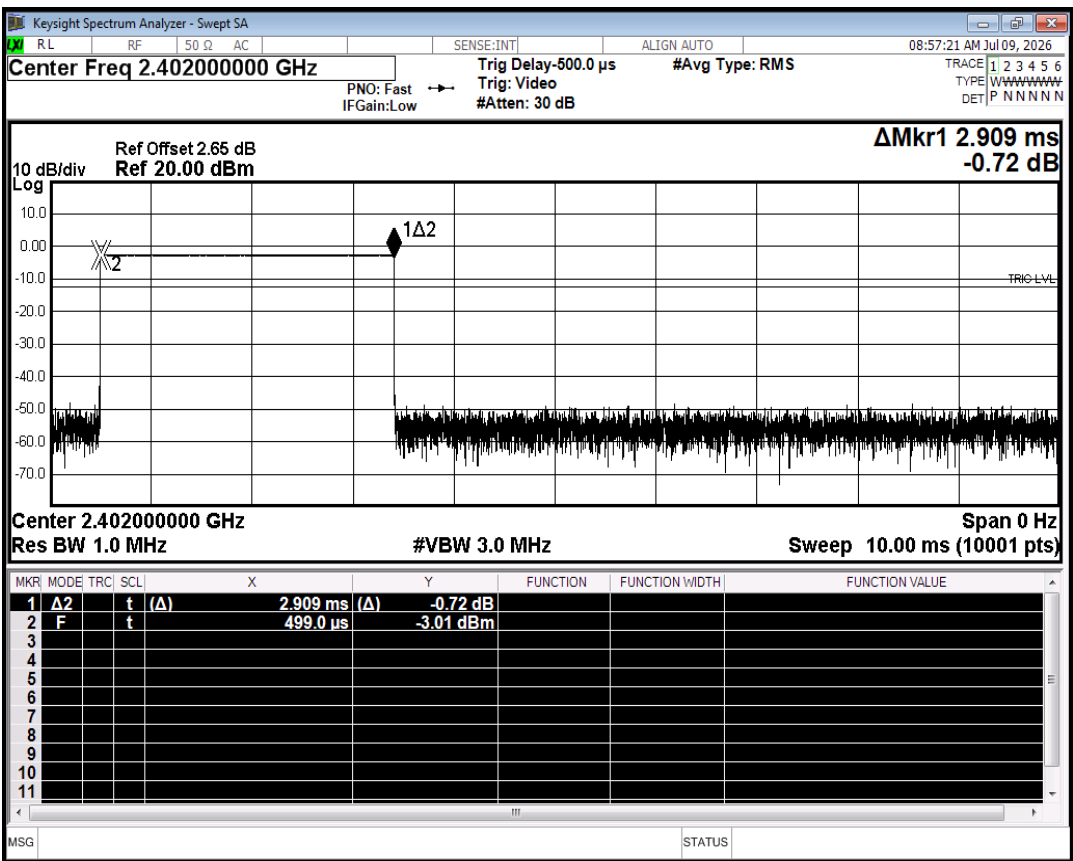
CFS NVNT 2-DH5 2402MHz Ant1



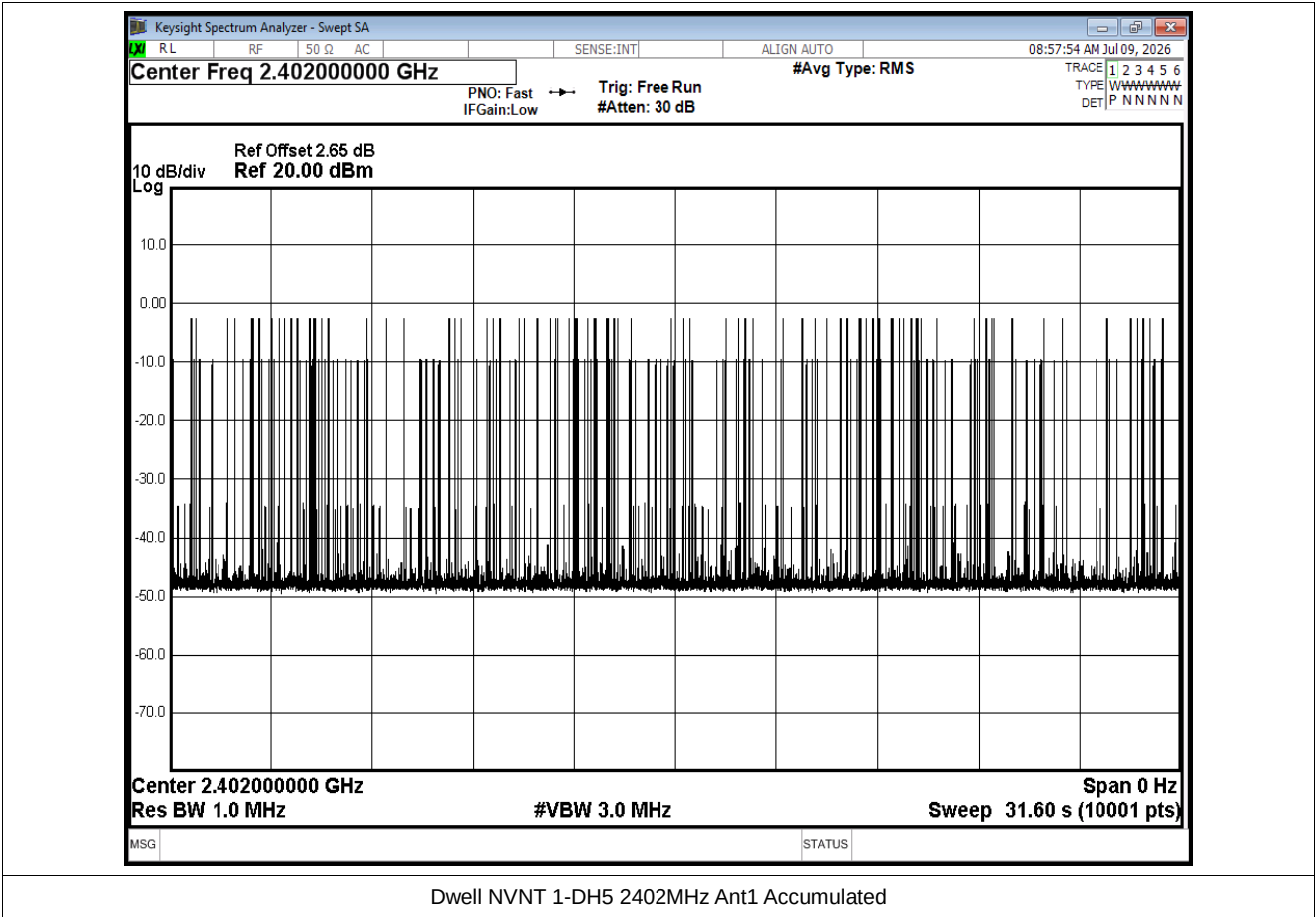
CFS NVNT 3-DH5 2402MHz Ant1

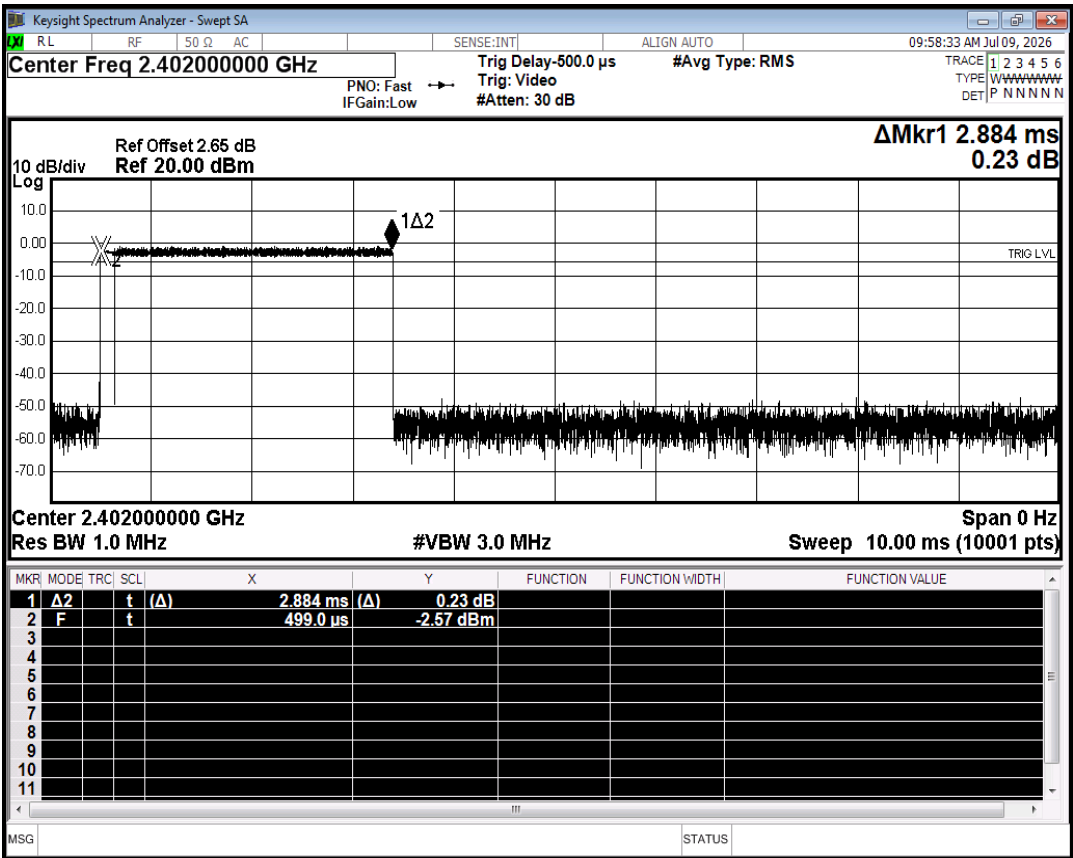
A.4 Dwell Time

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	2.909	287.991	99	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.884	311.472	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.892	318.12	110	31600	400	Pass

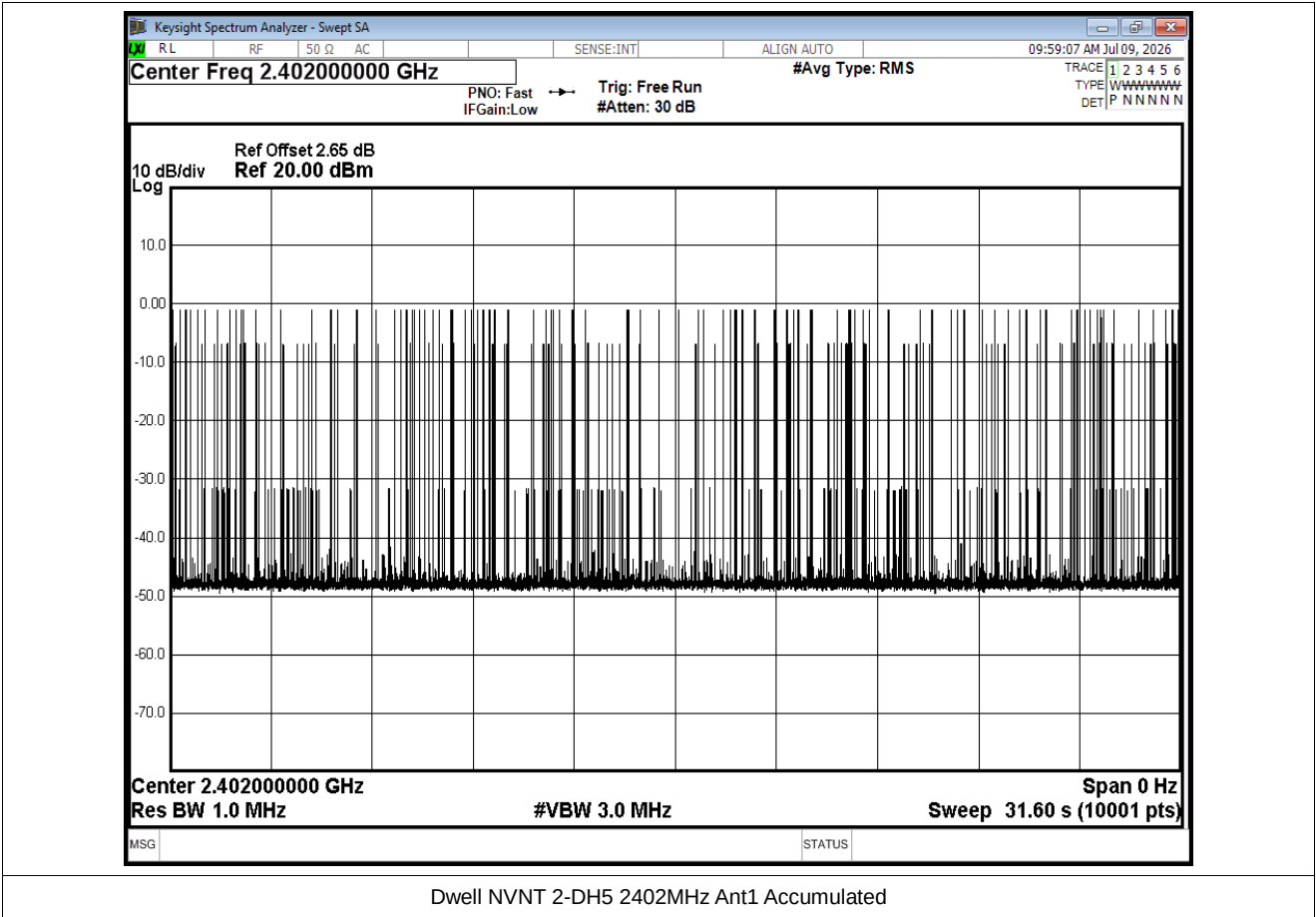


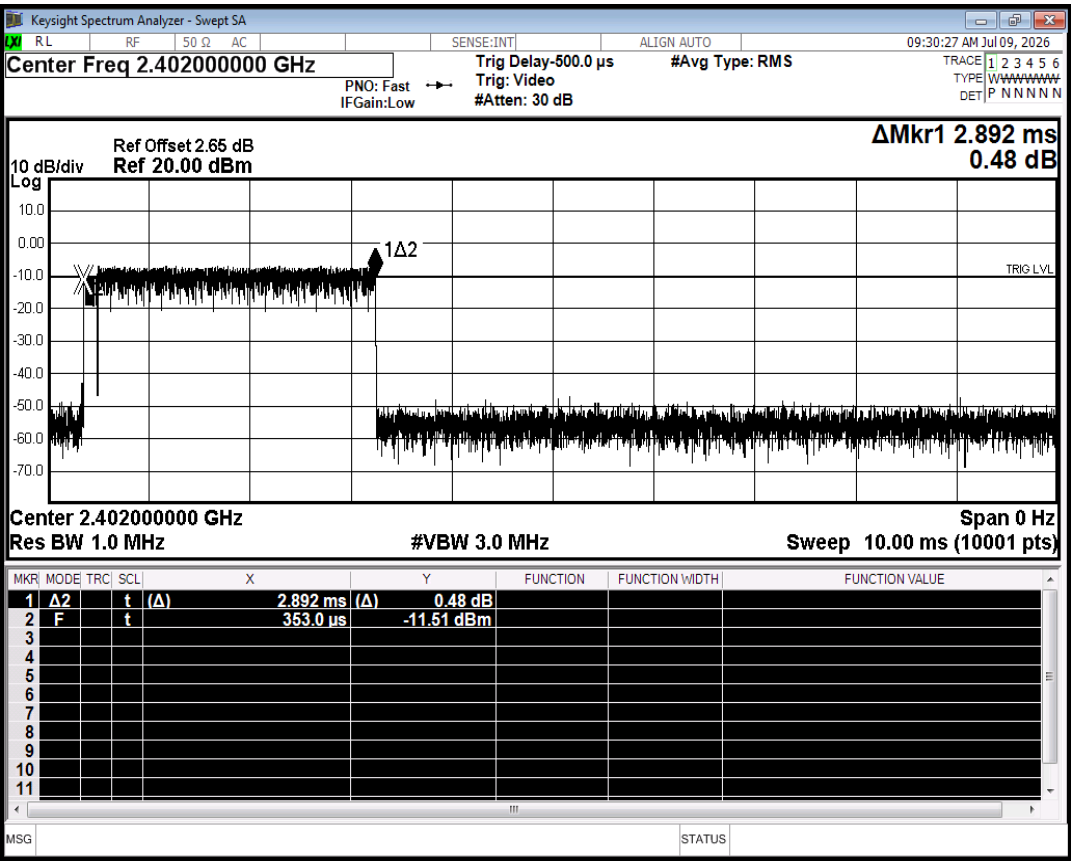
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



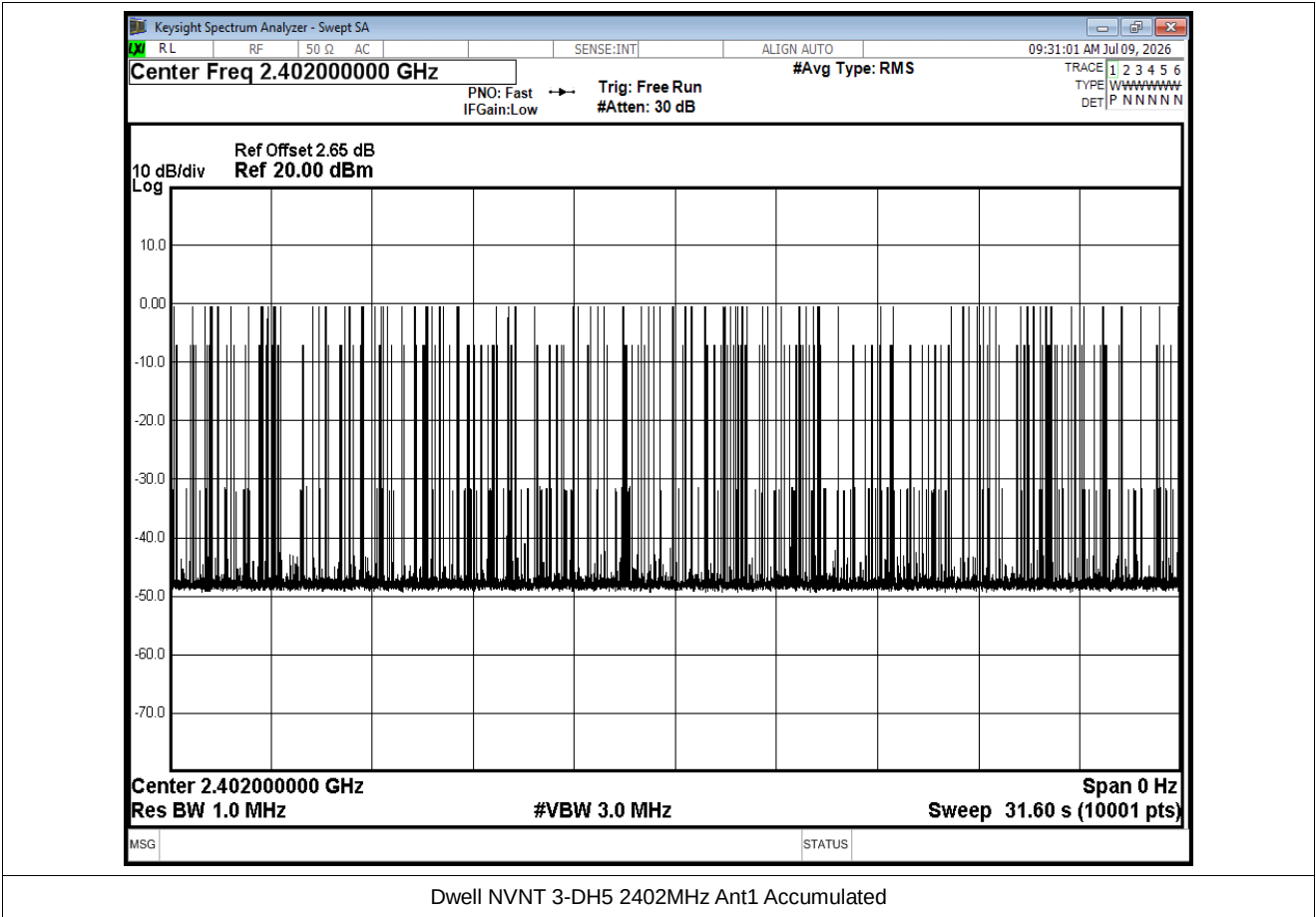


Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



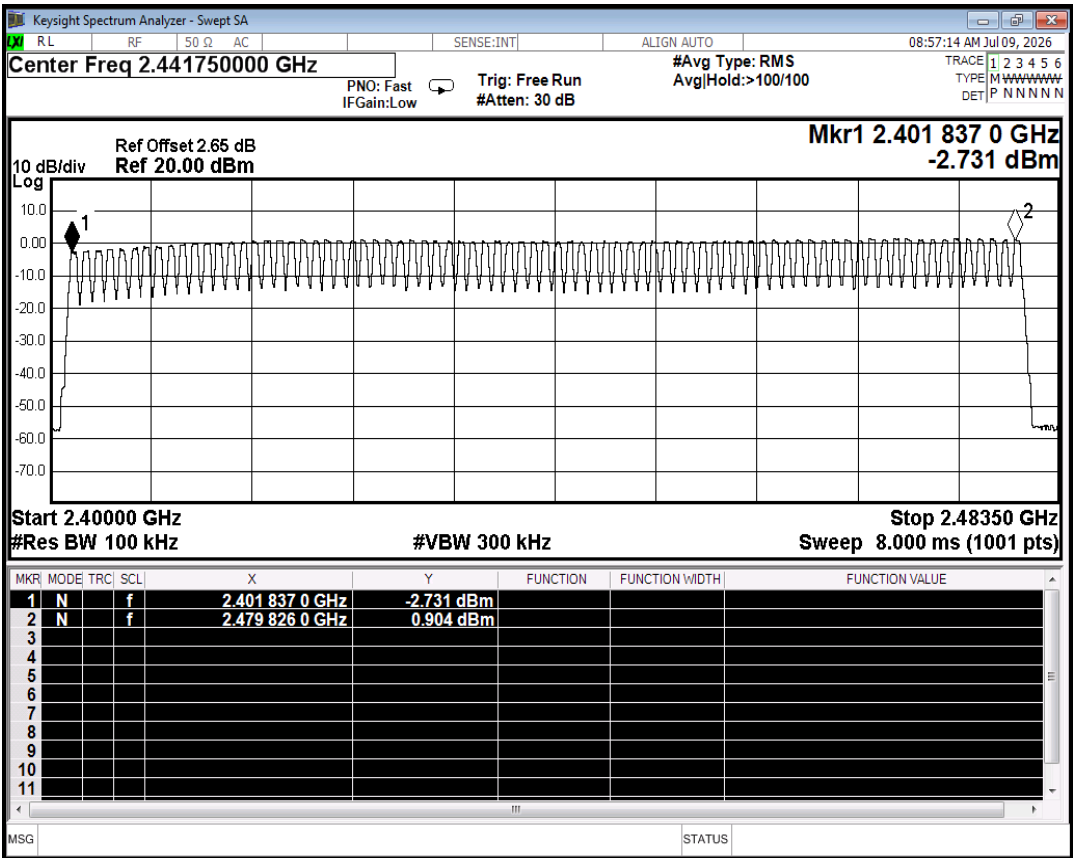


Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

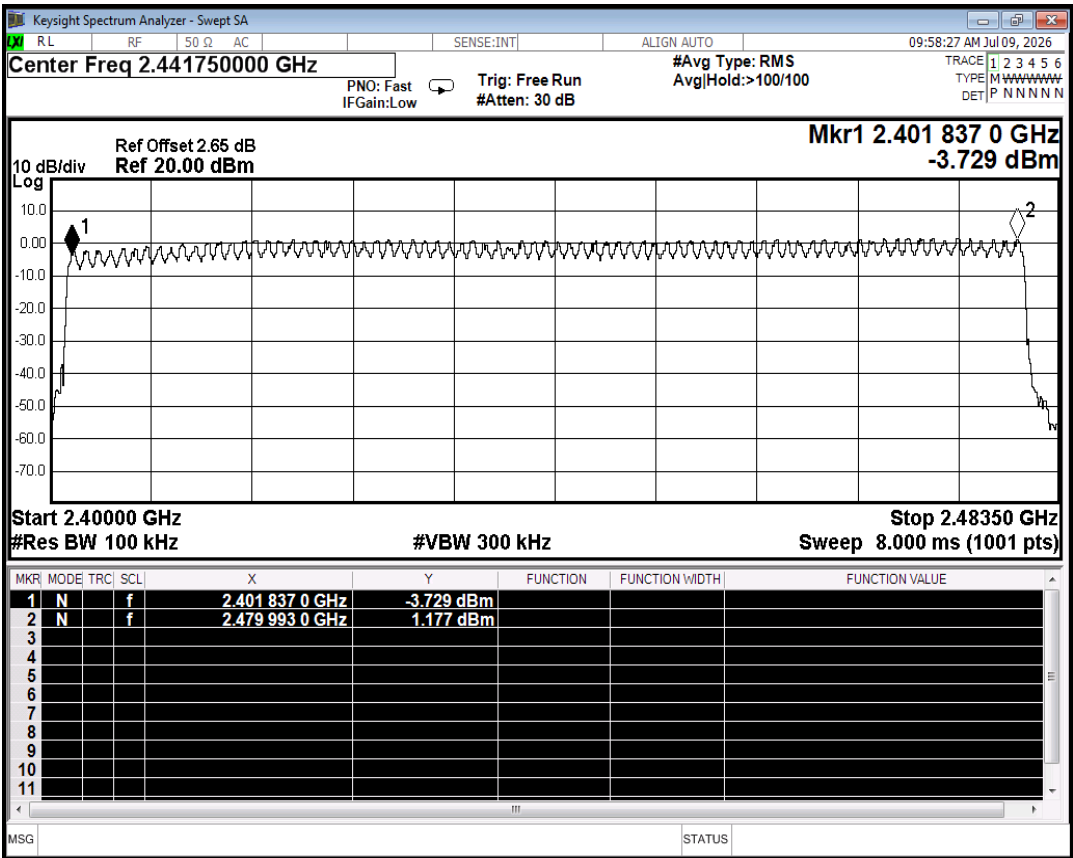


A.5 Number of Hopping Channel

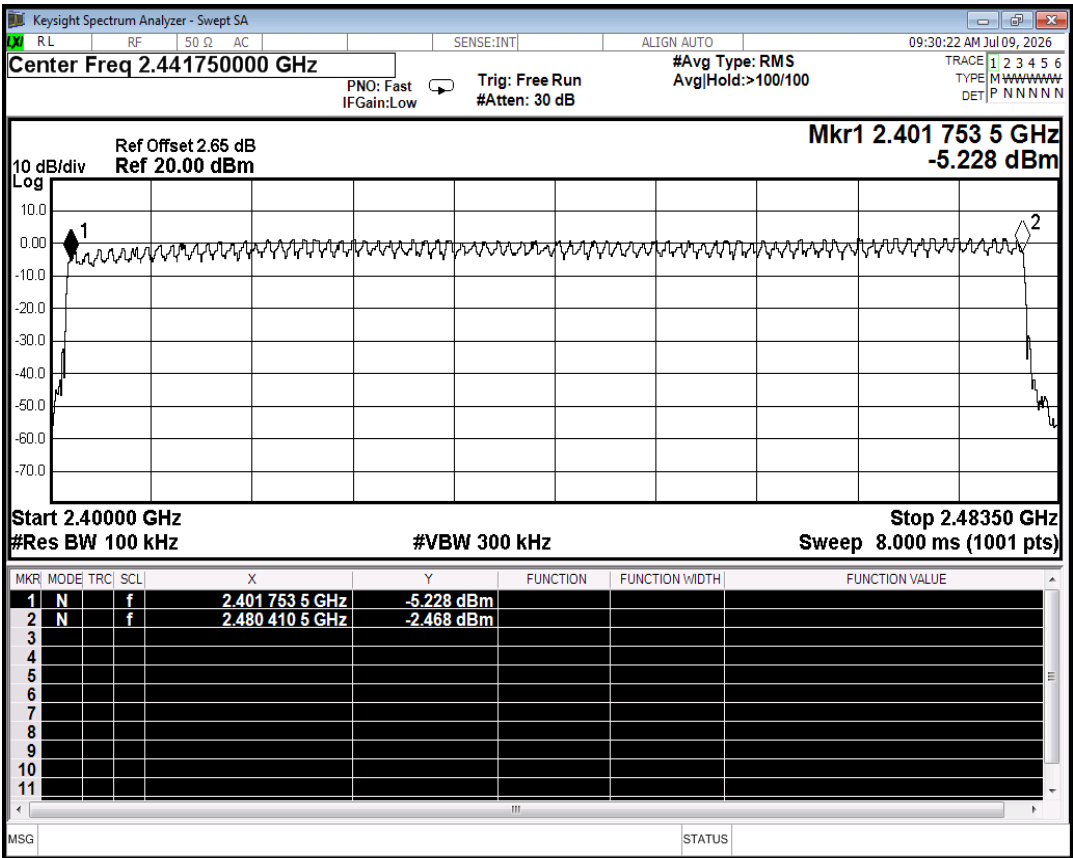
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



Hopping No. NVNT 1-DH5 2402MHz Ant1



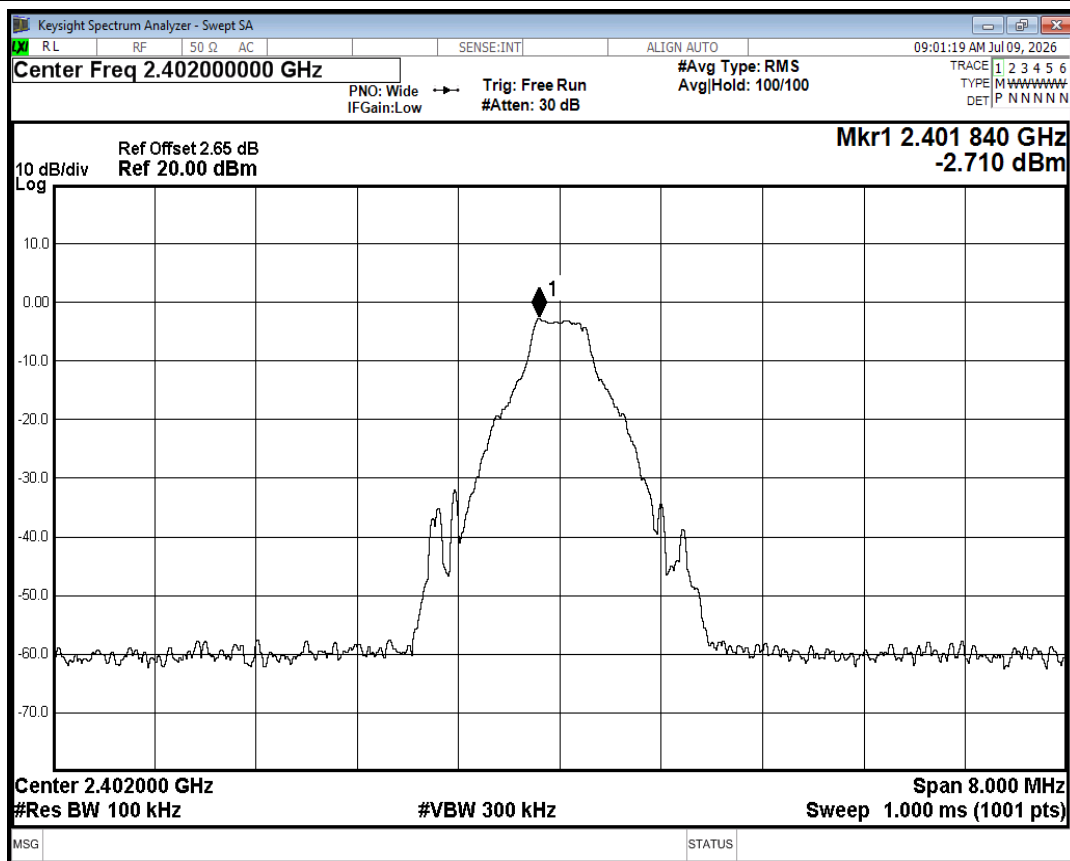
Hopping No. NVNT 2-DH5 2402MHz Ant1



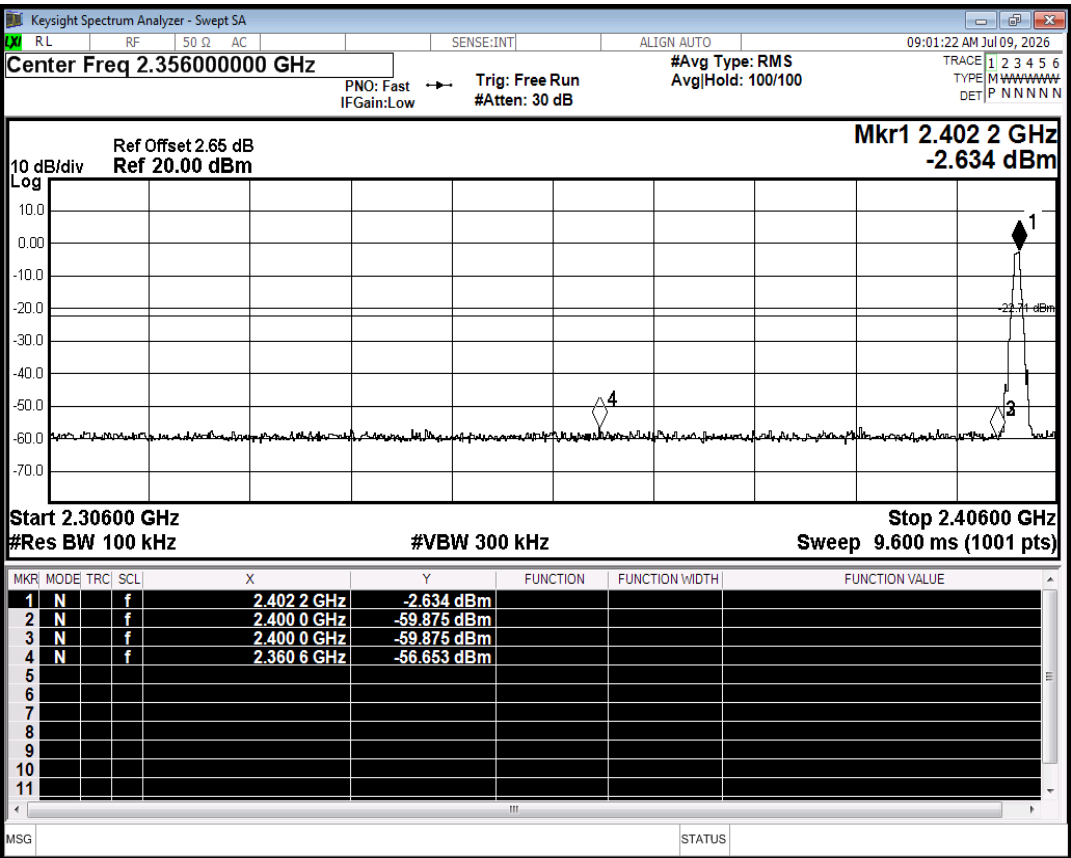
Hopping No. NVNT 3-DH5 2402MHz Ant1

A.6 Band Edge

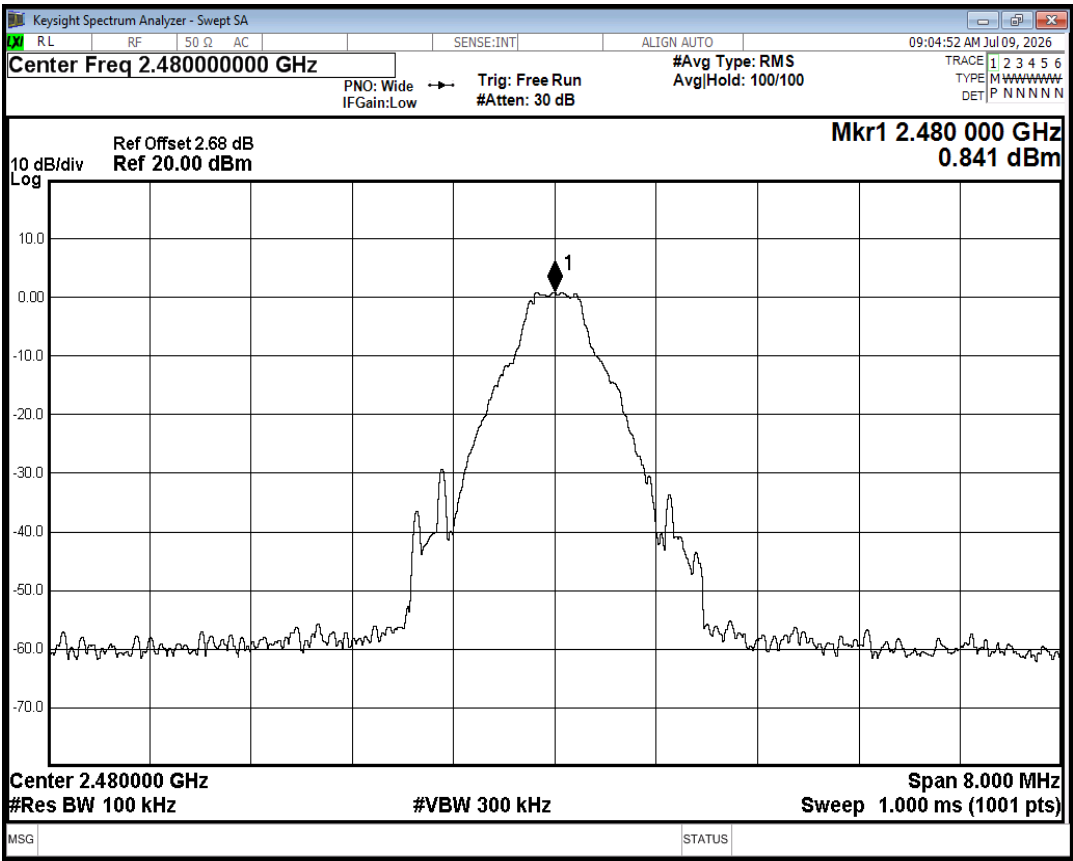
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.94	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.03	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.69	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.36	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.8	-20	Pass



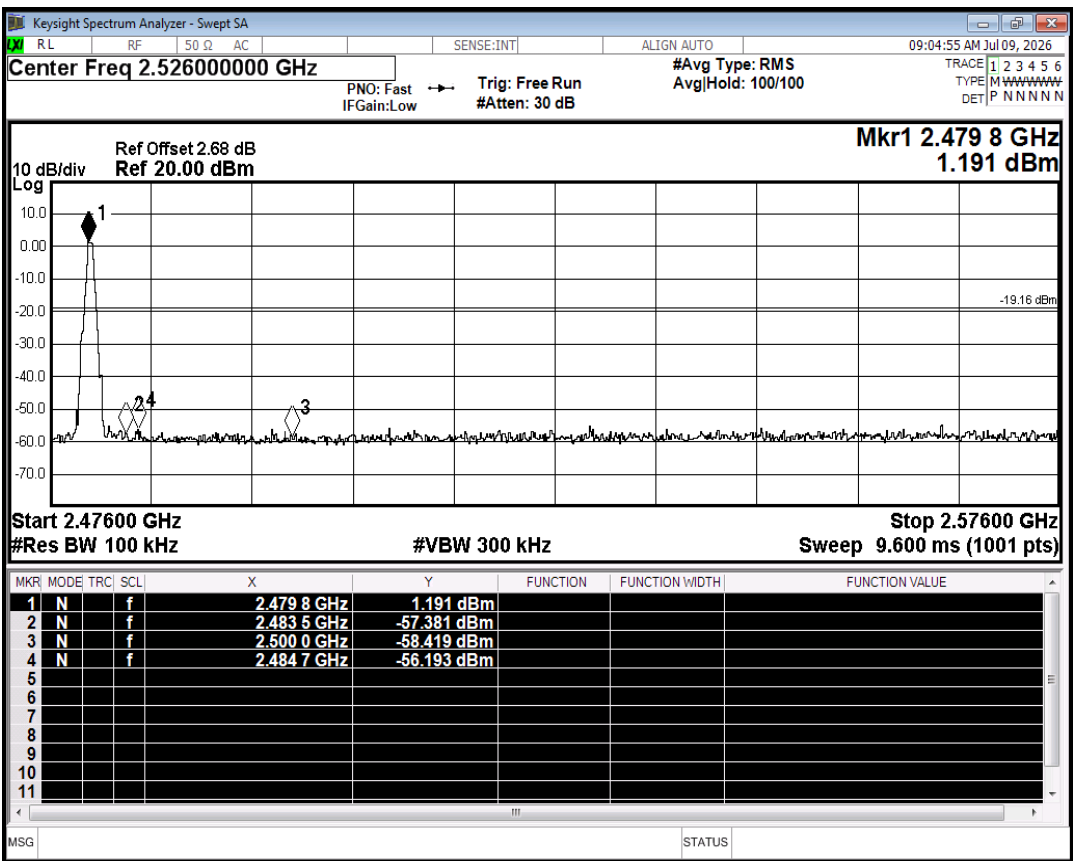
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



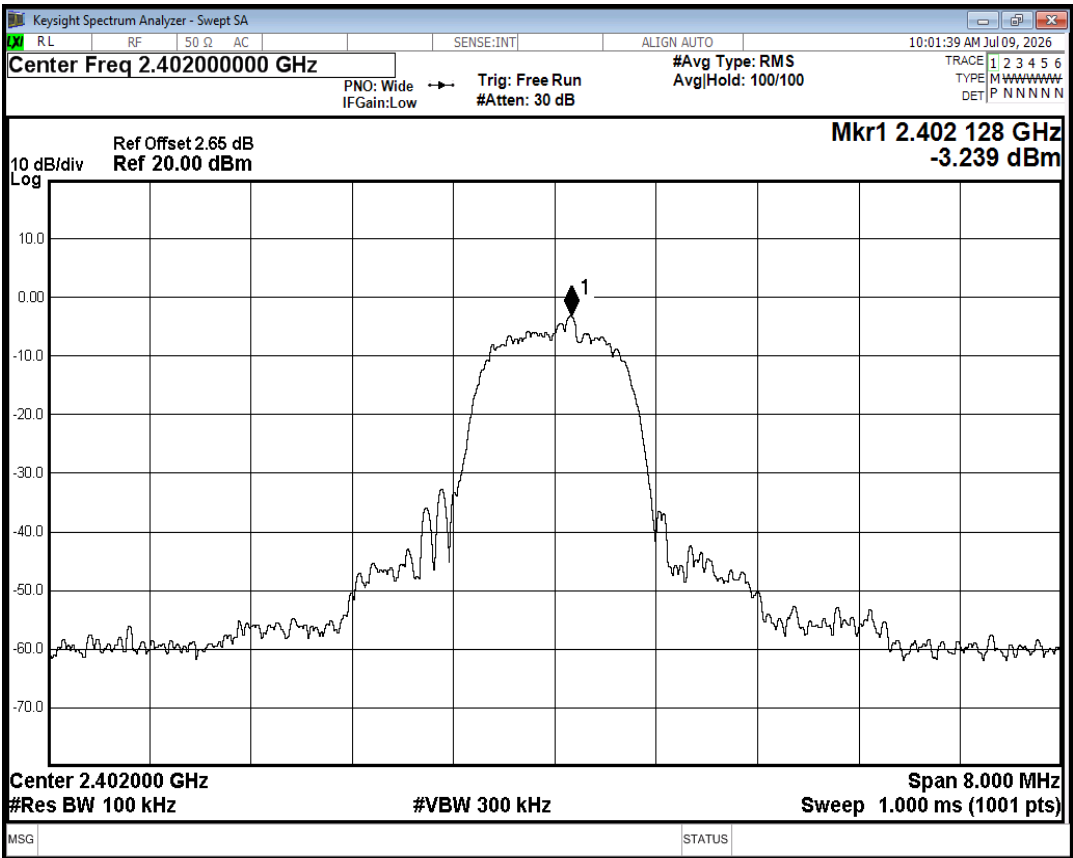
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



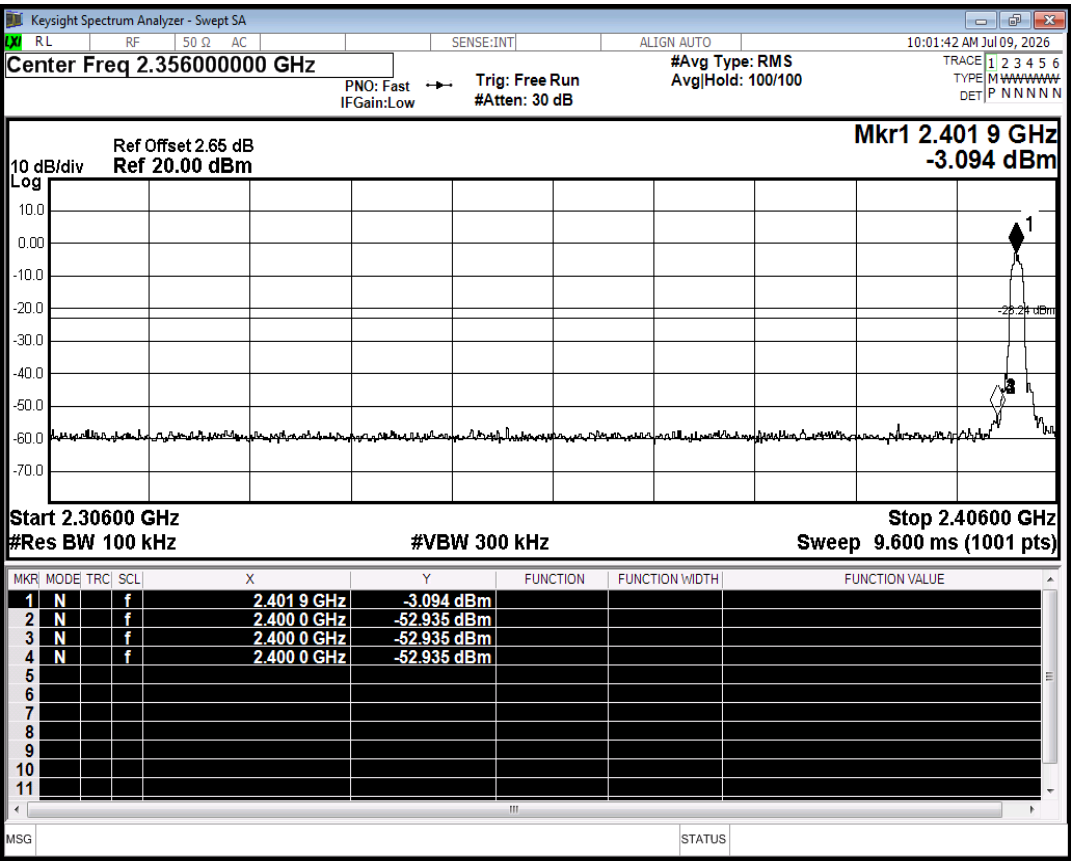
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



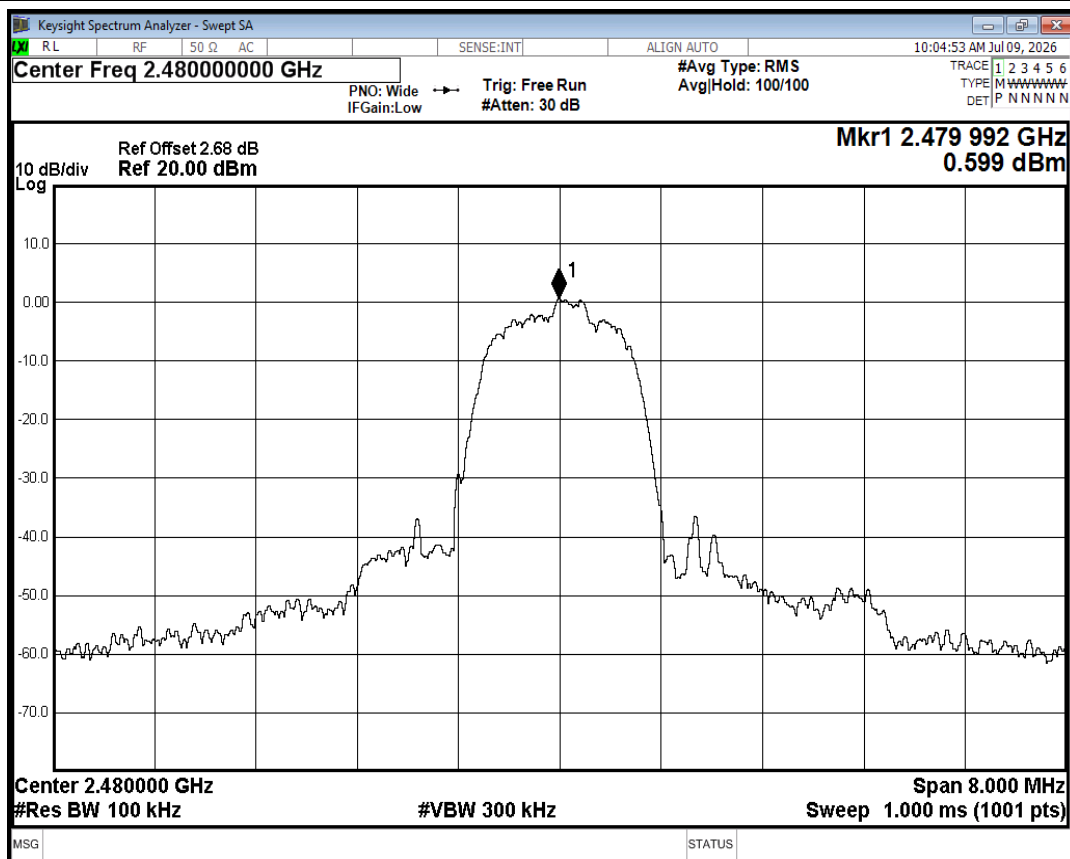
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



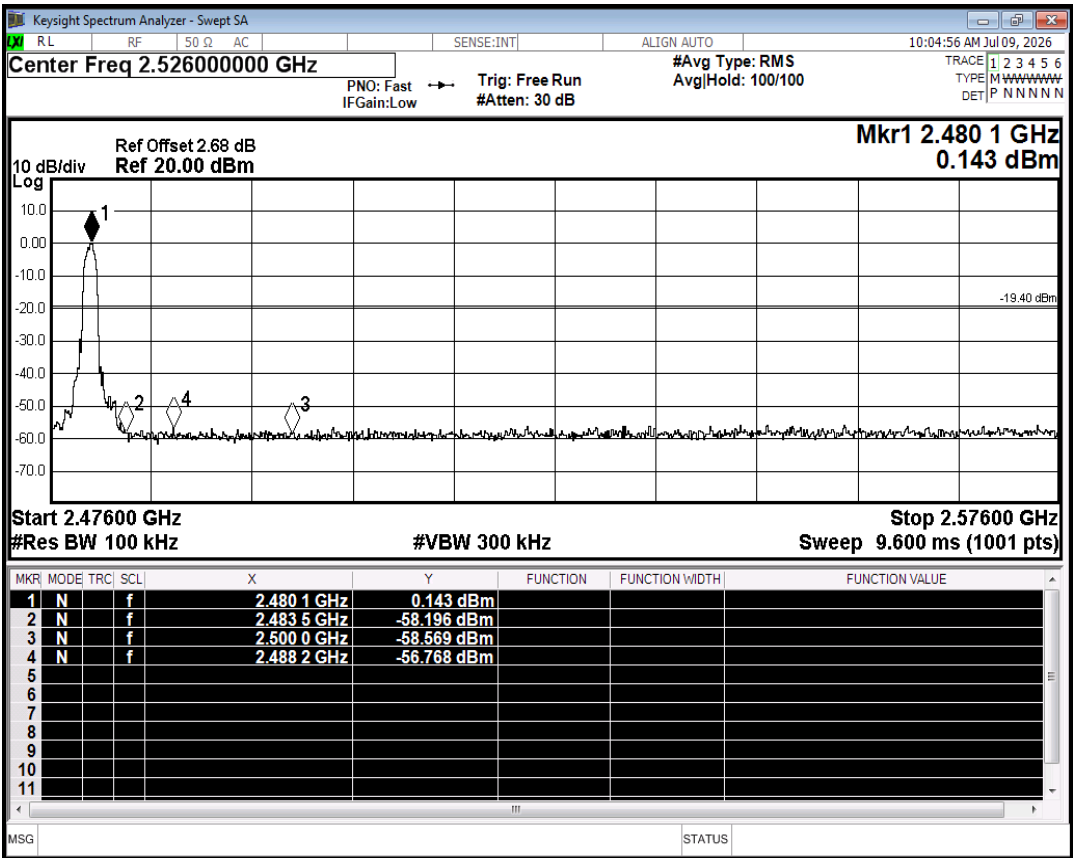
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



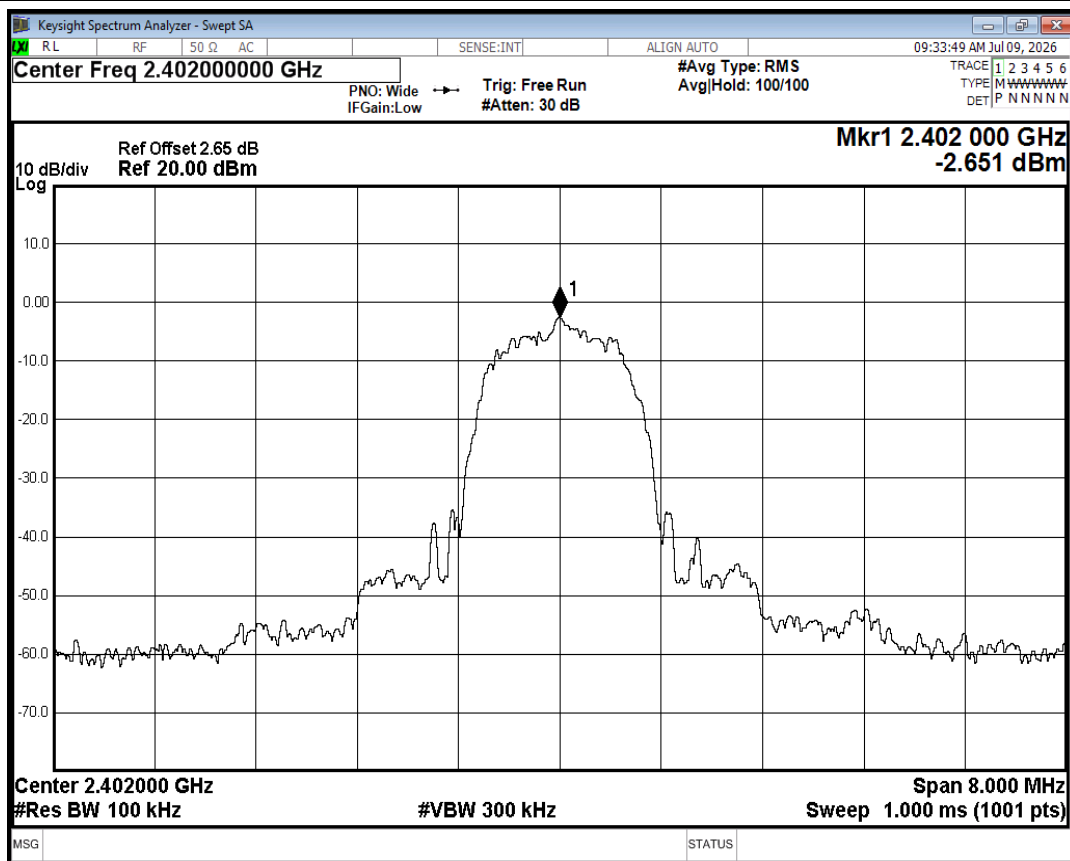
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



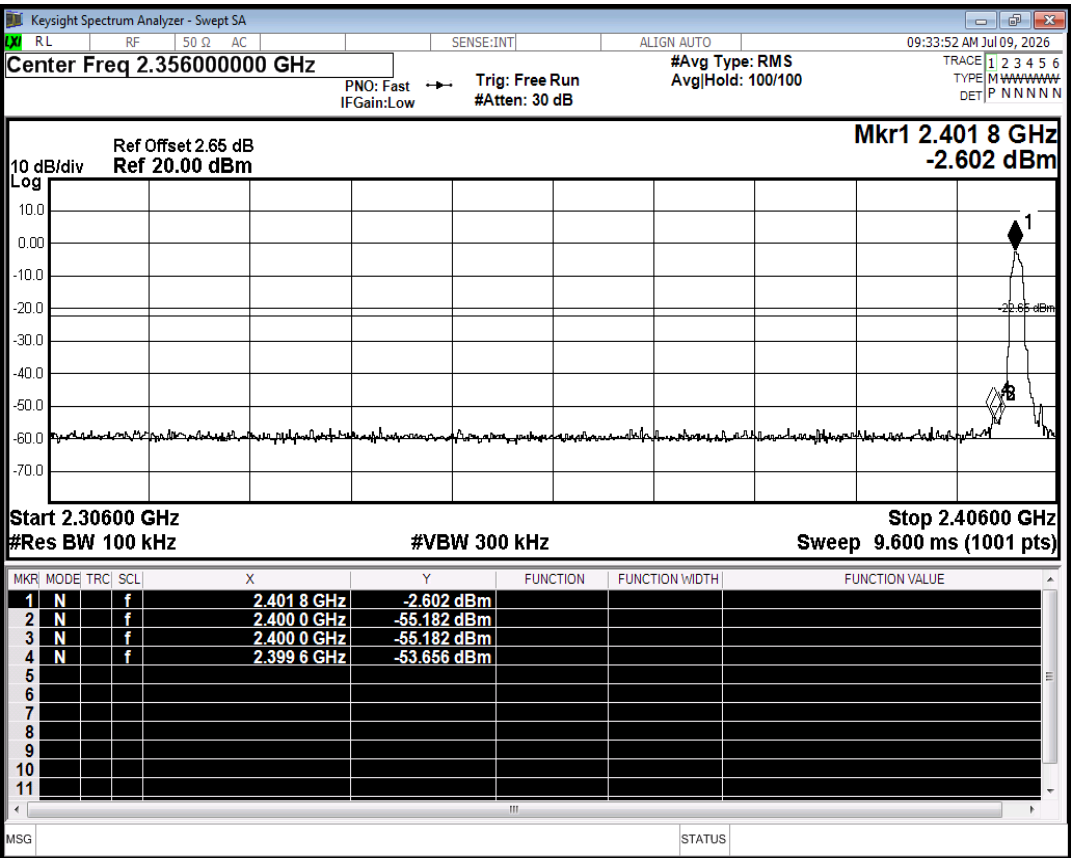
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



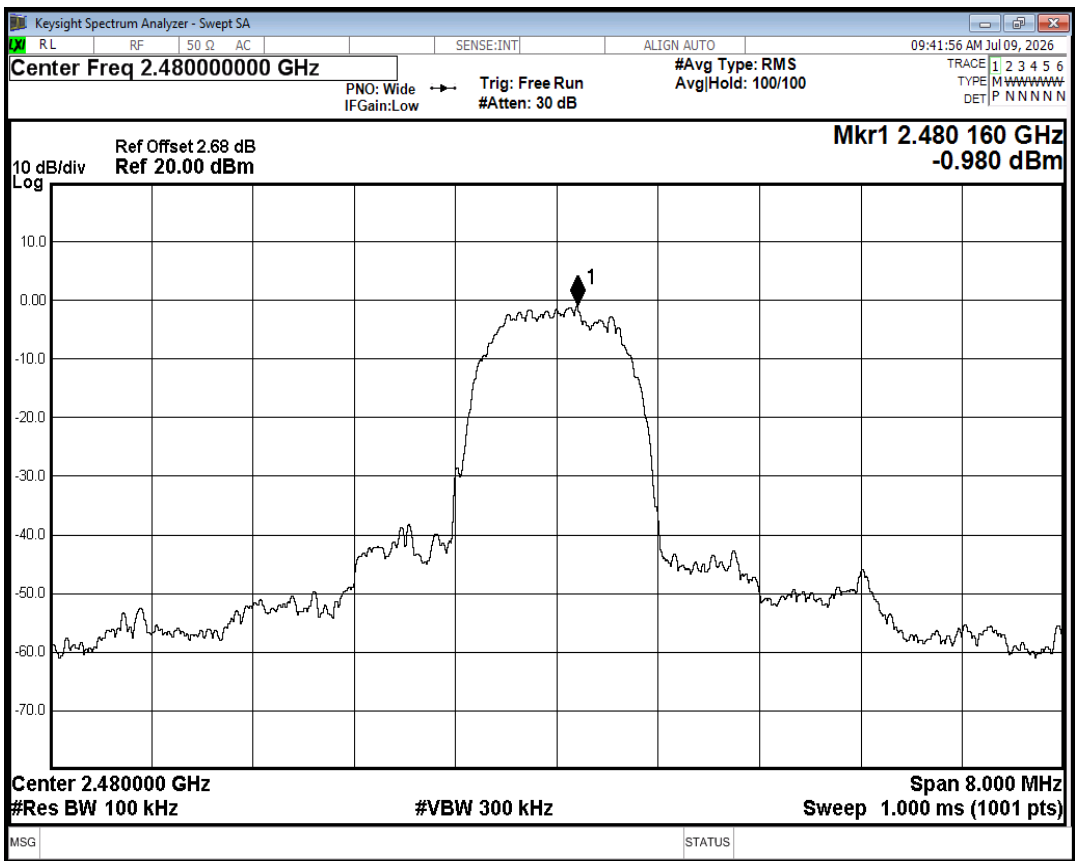
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



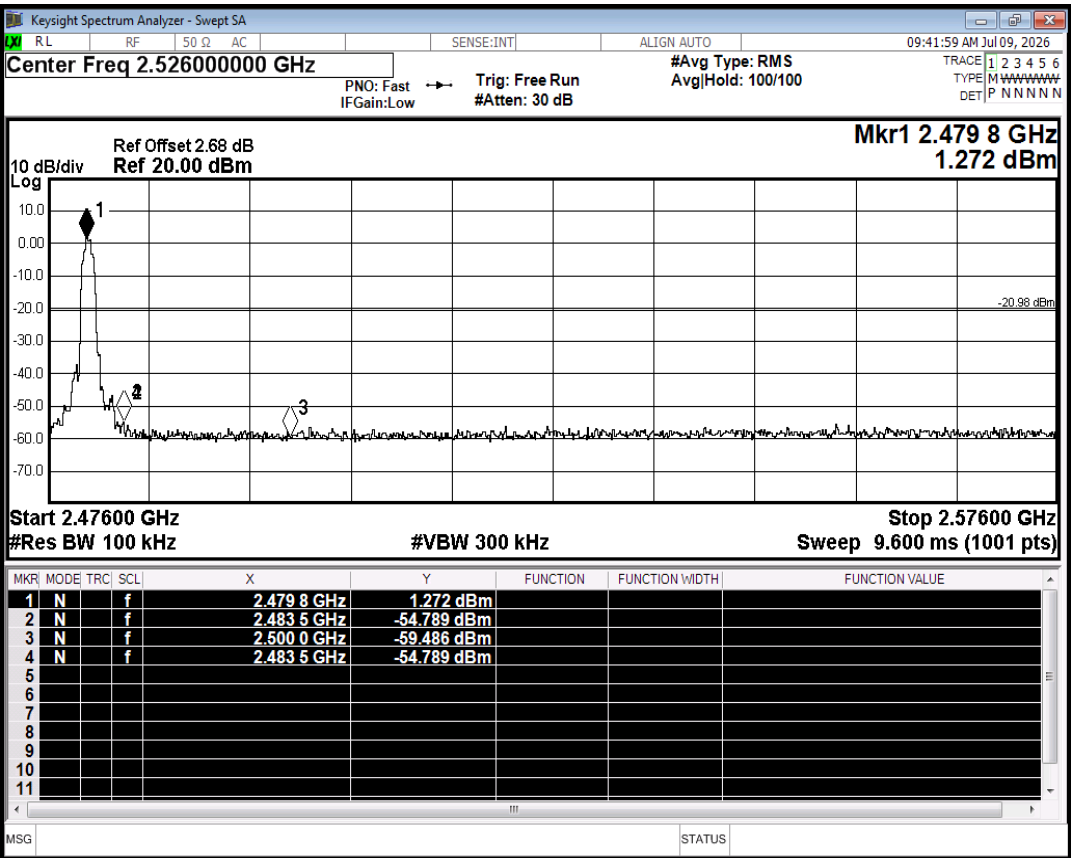
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



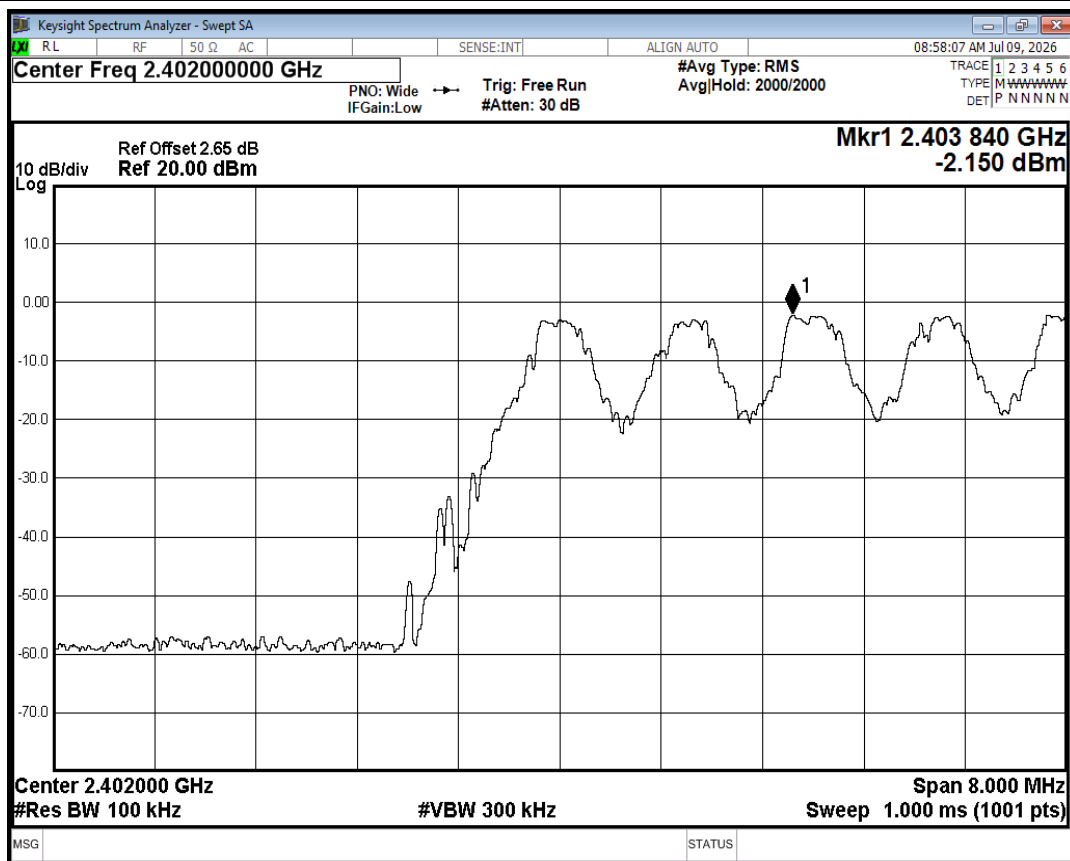
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



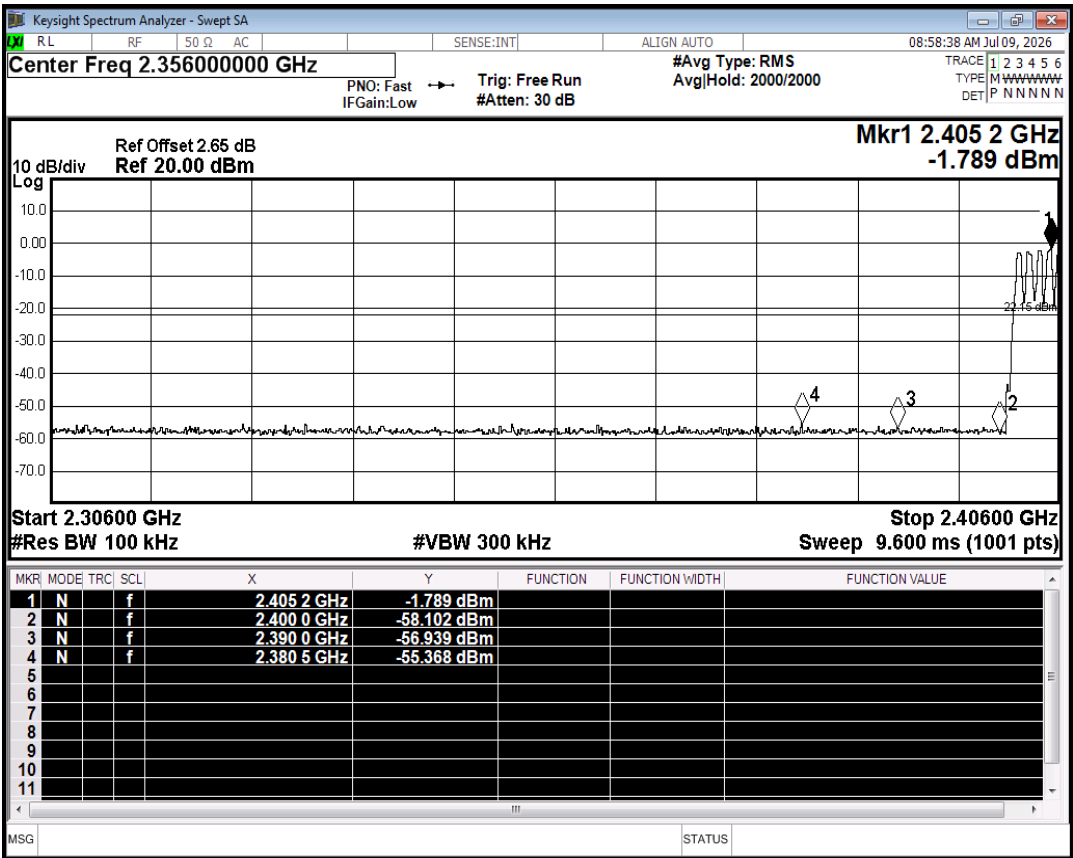
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

(Hopping)

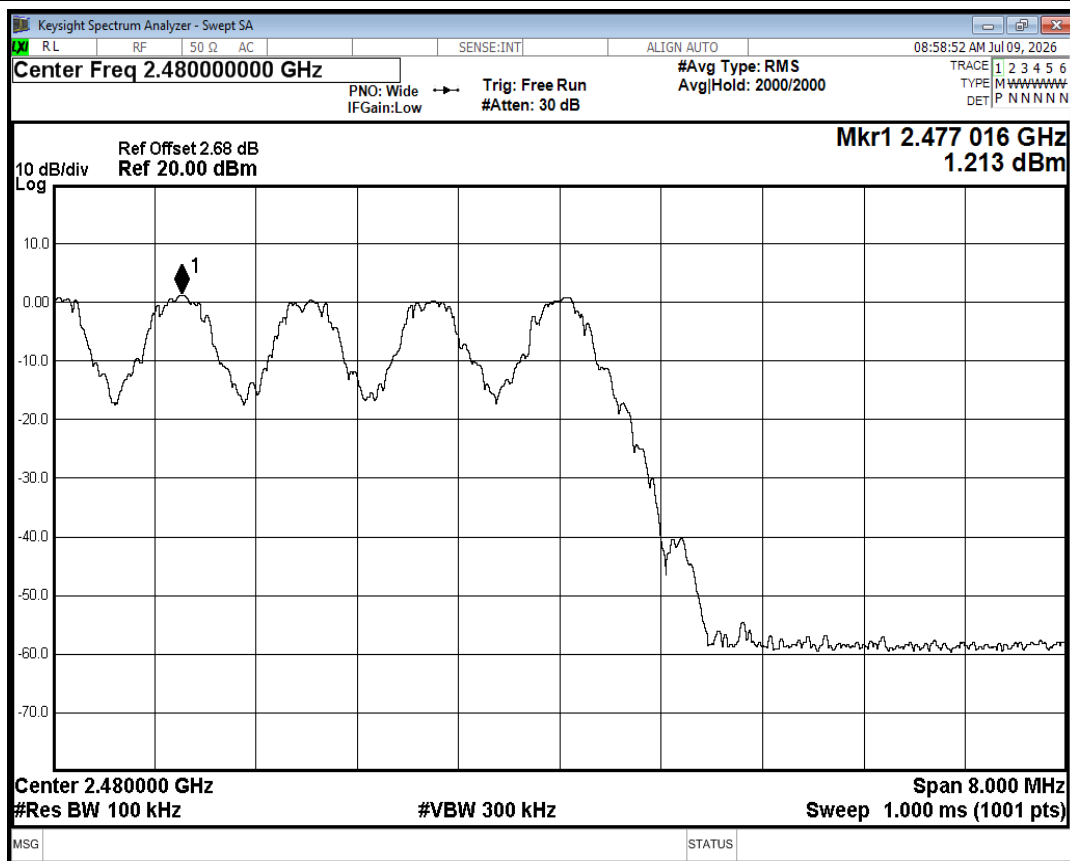
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.21	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.38	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.29	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.94	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.93	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.03	-20	Pass



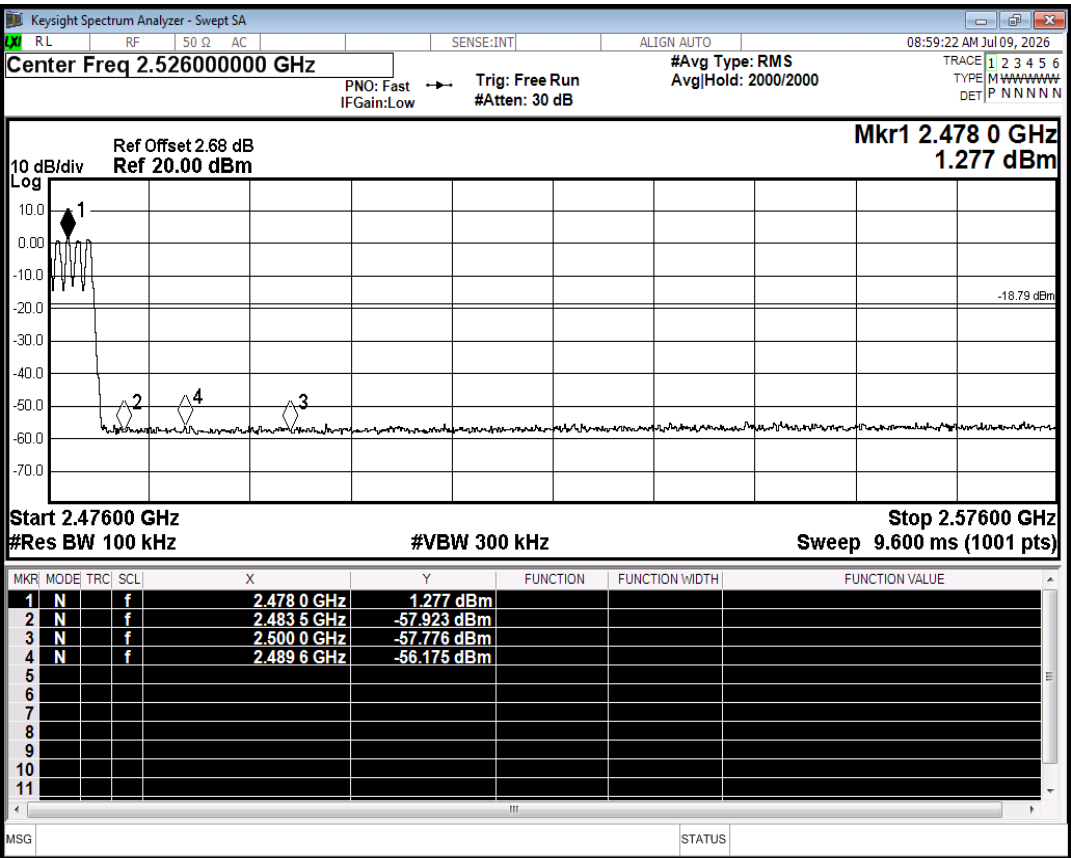
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



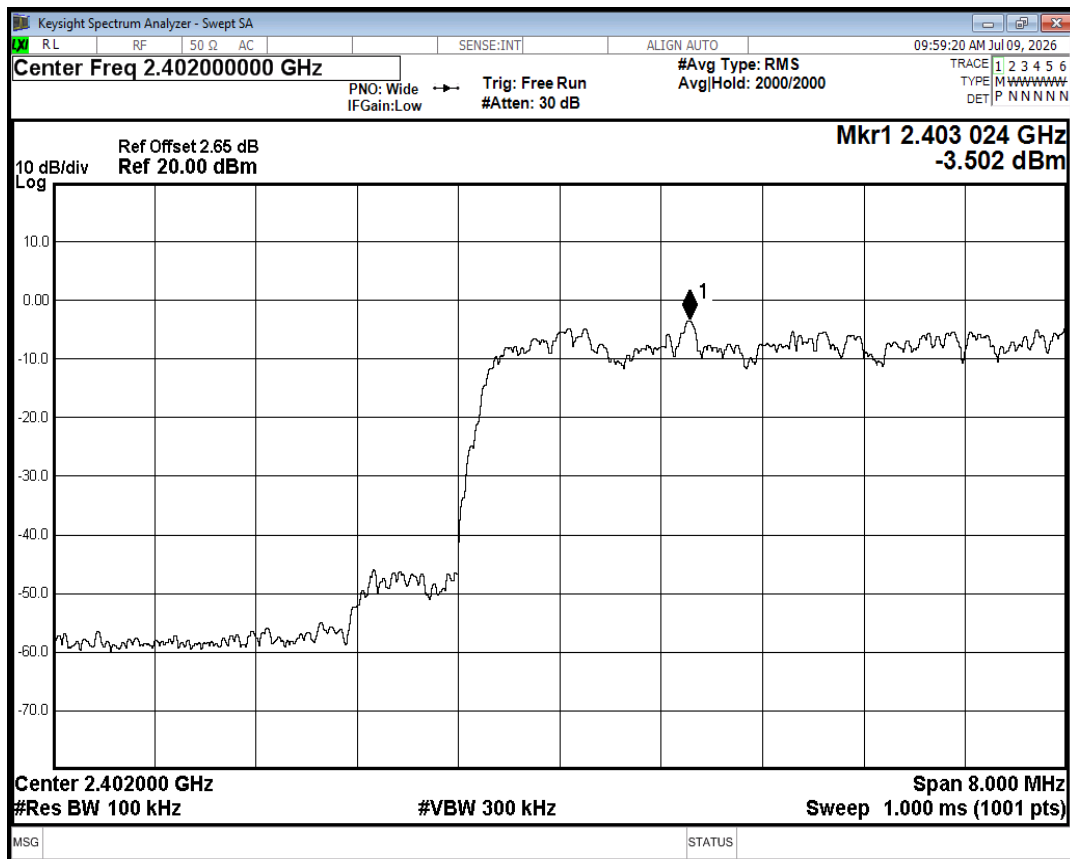
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



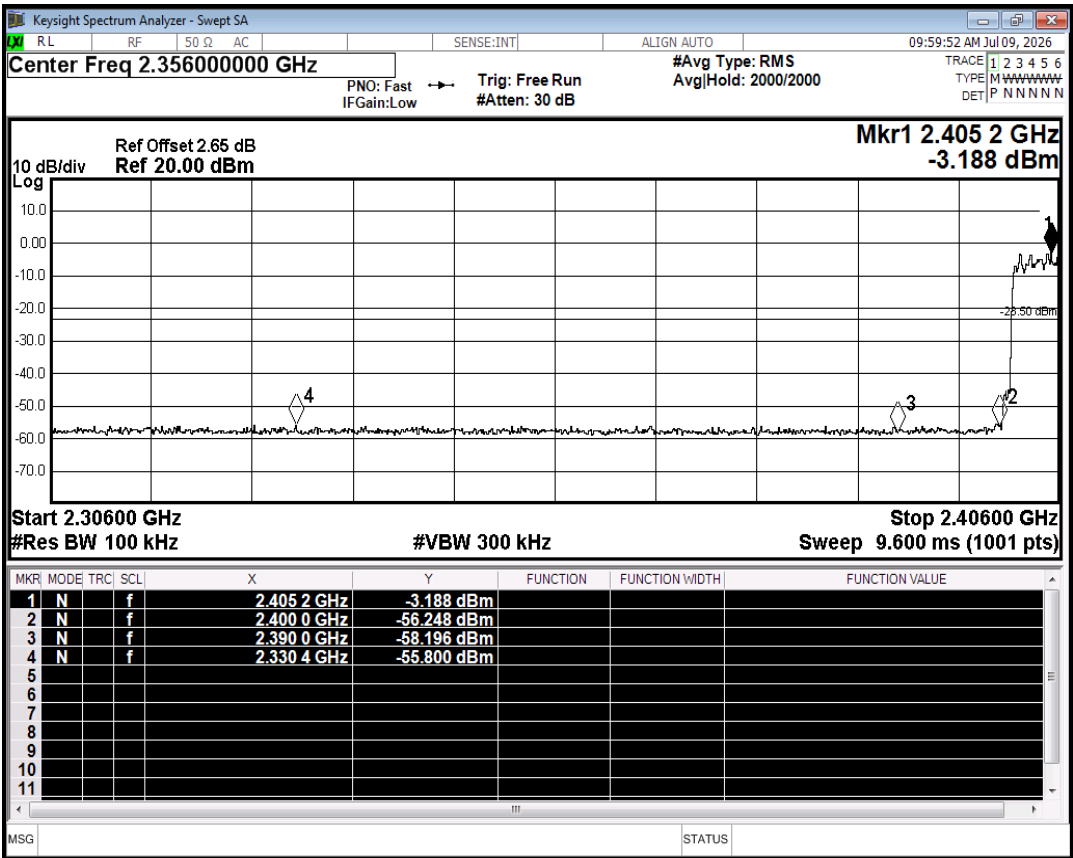
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



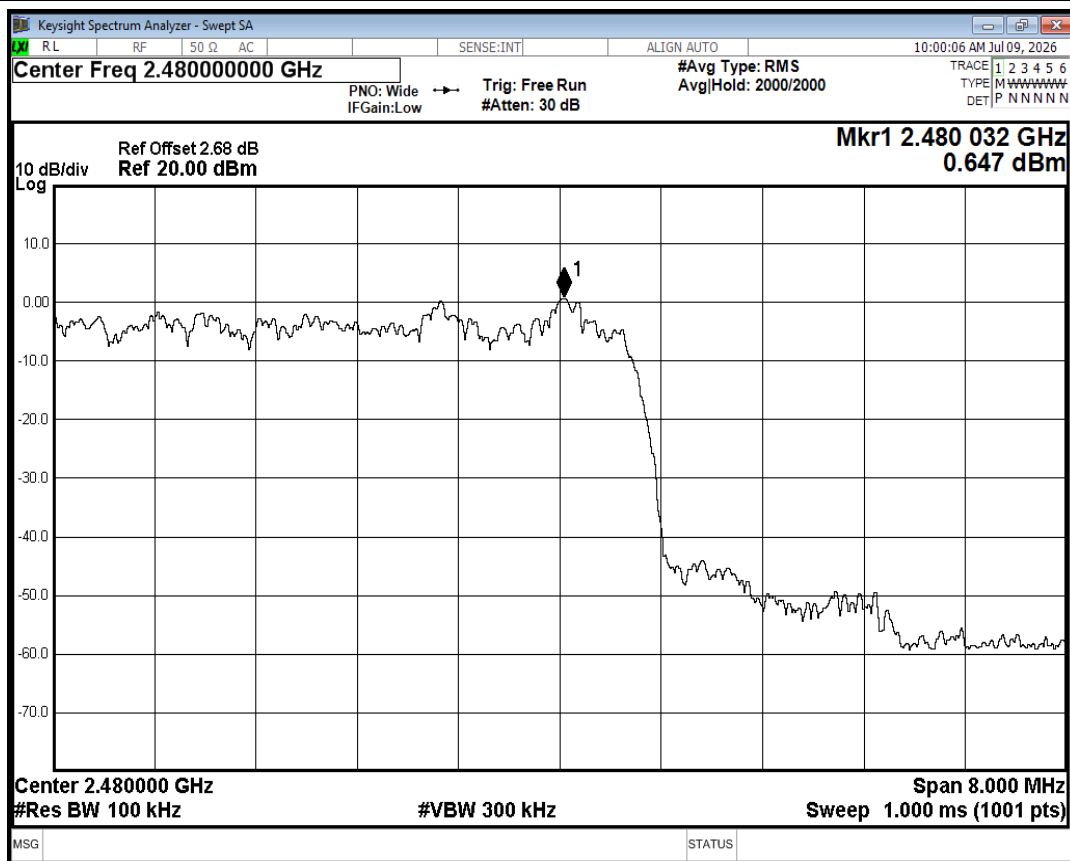
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



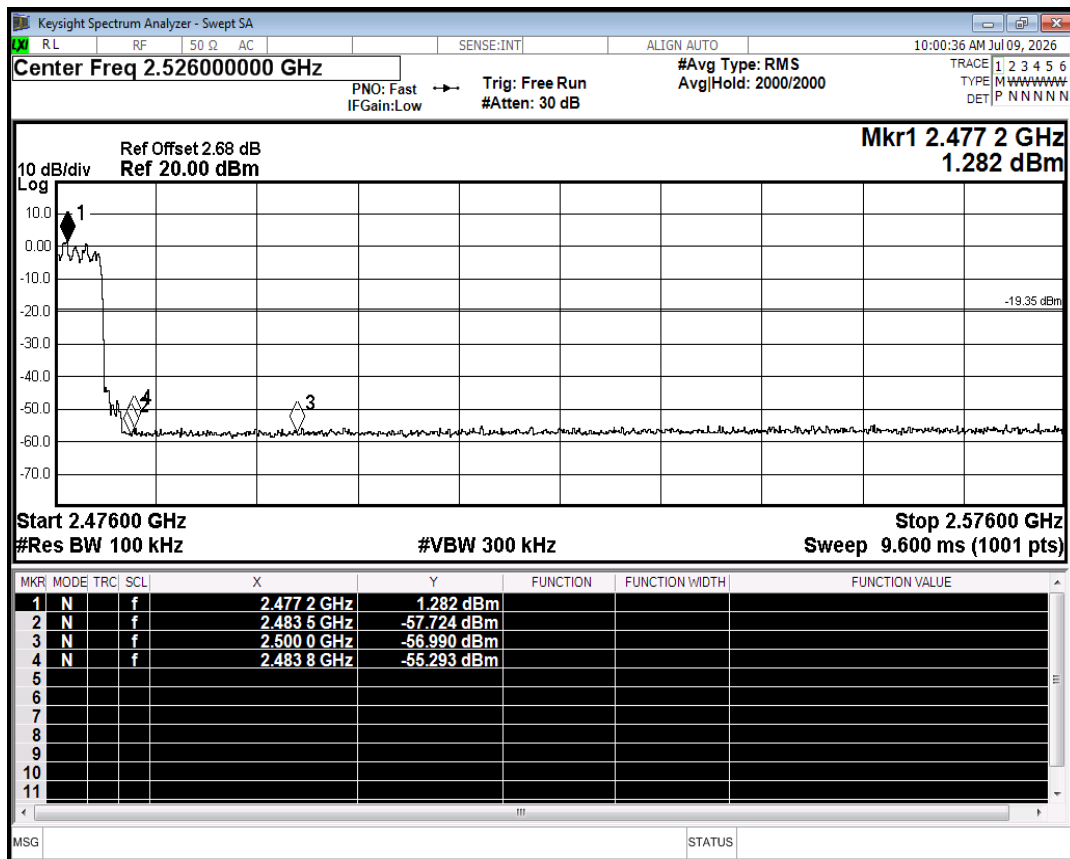
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



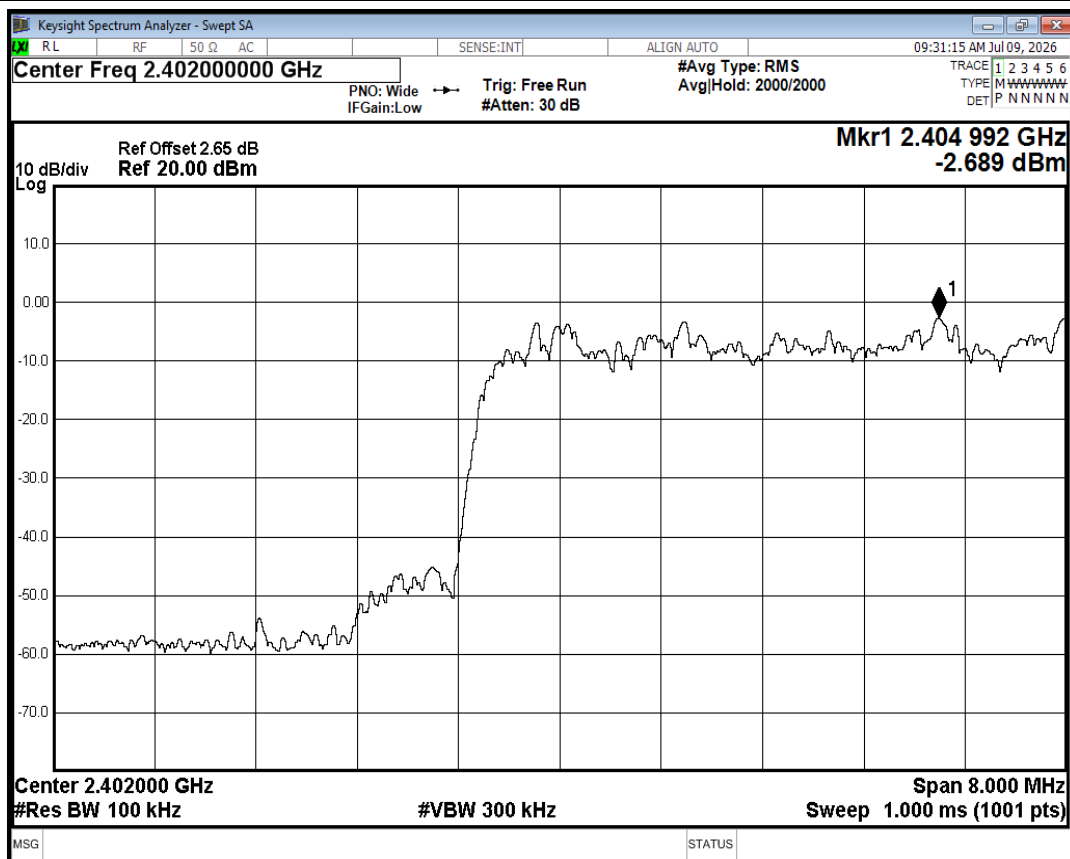
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



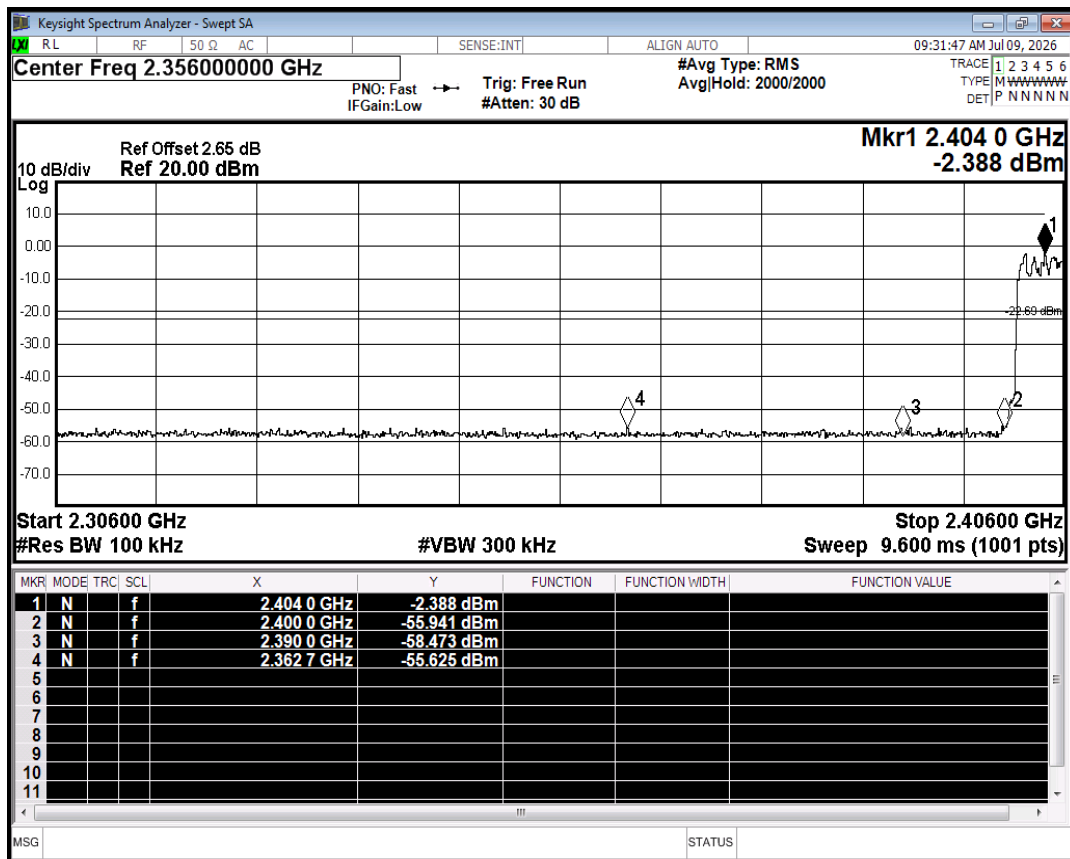
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



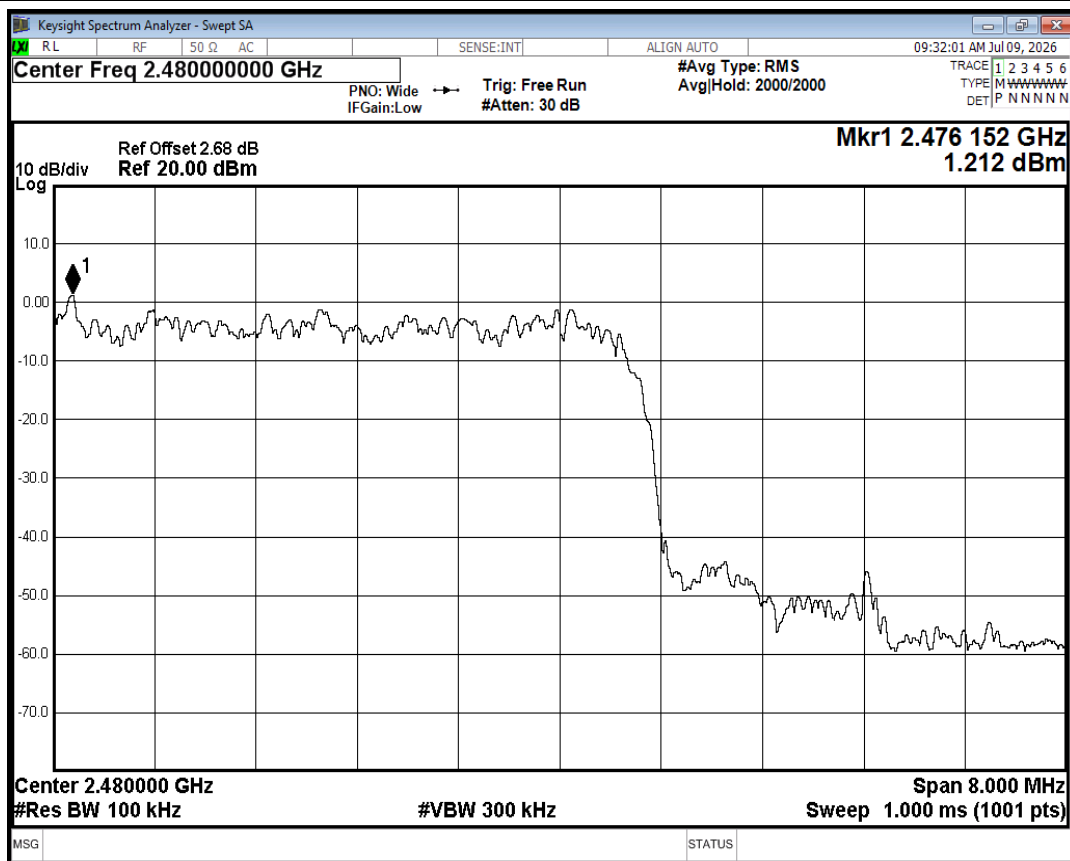
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



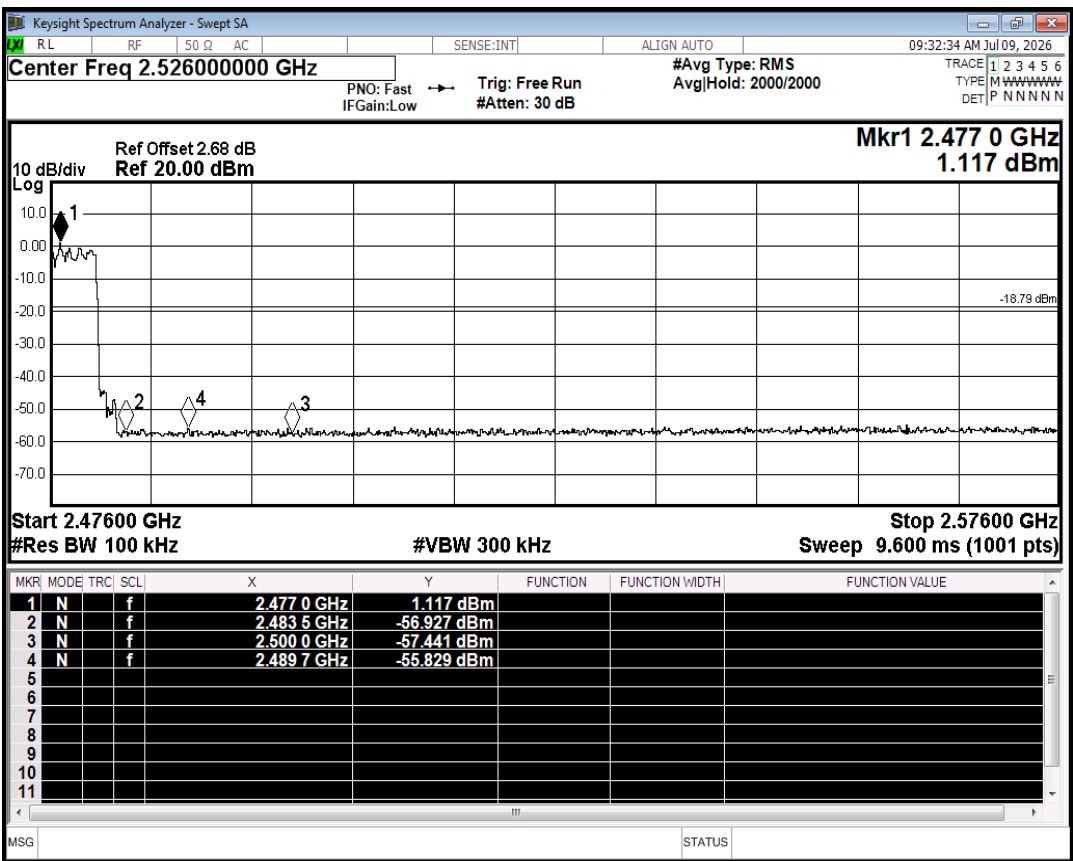
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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



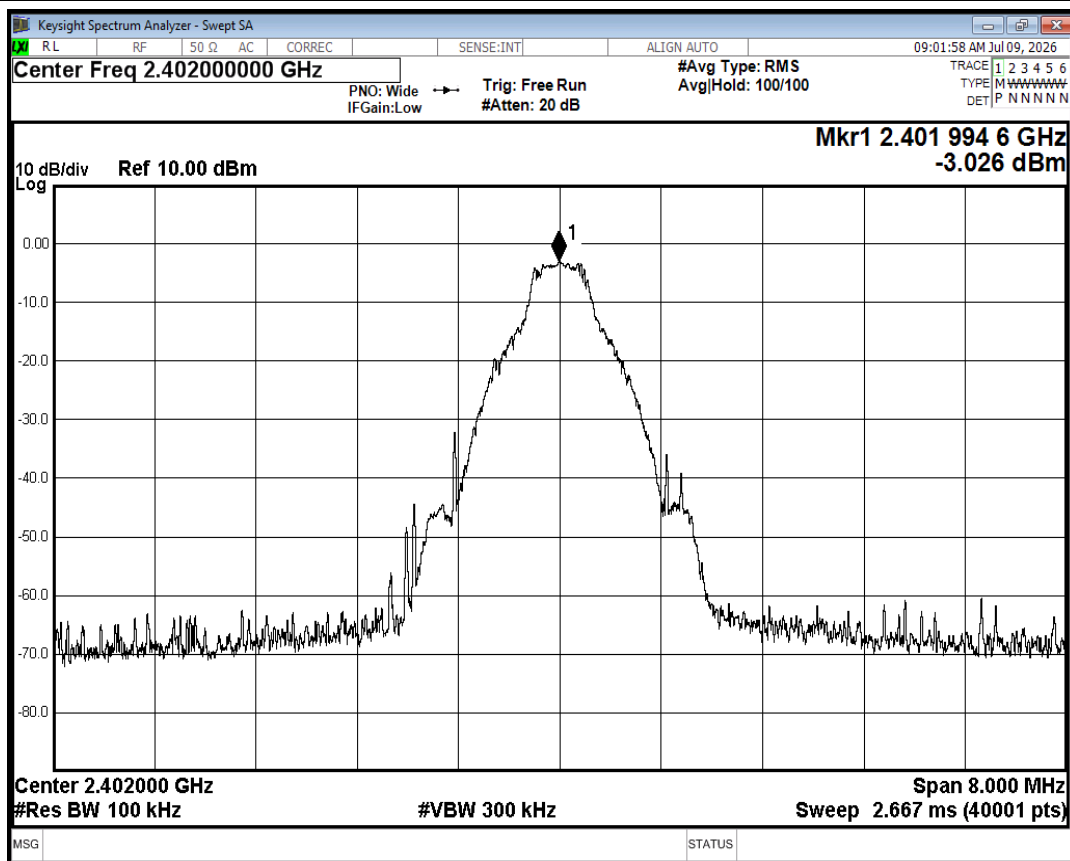
Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



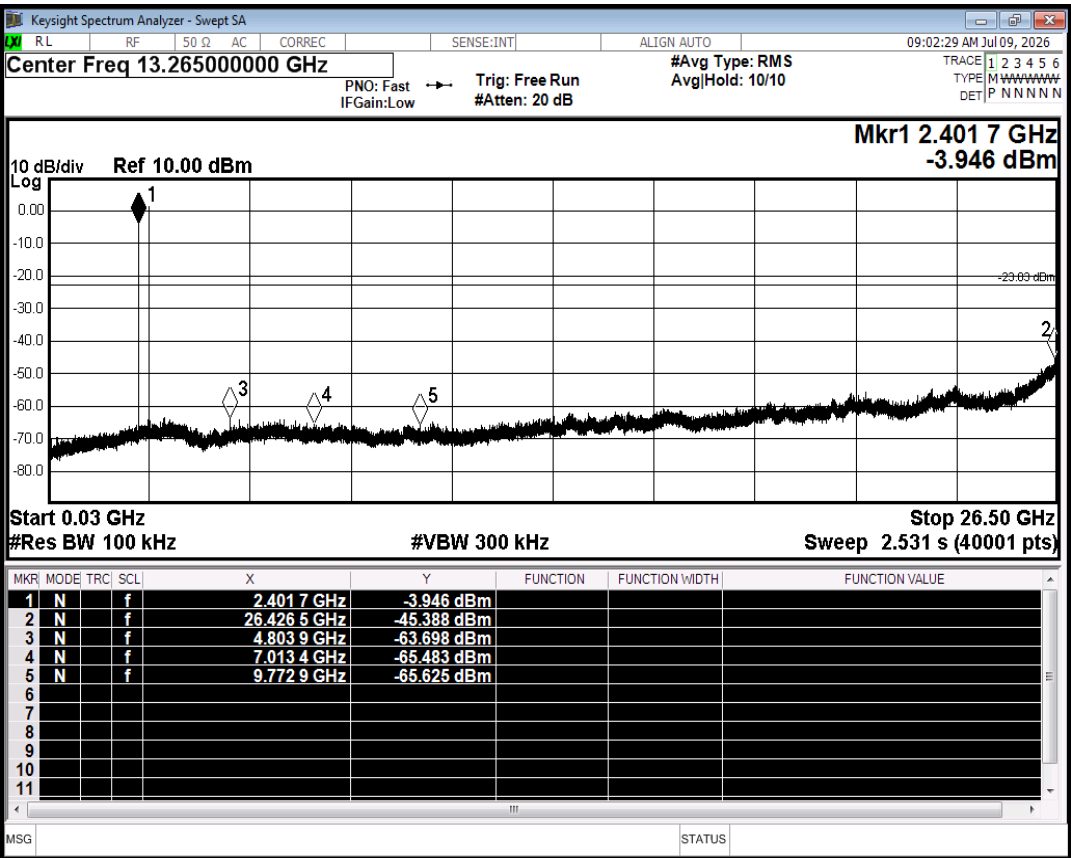
Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

A.7 Conducted RF Spurious Emission

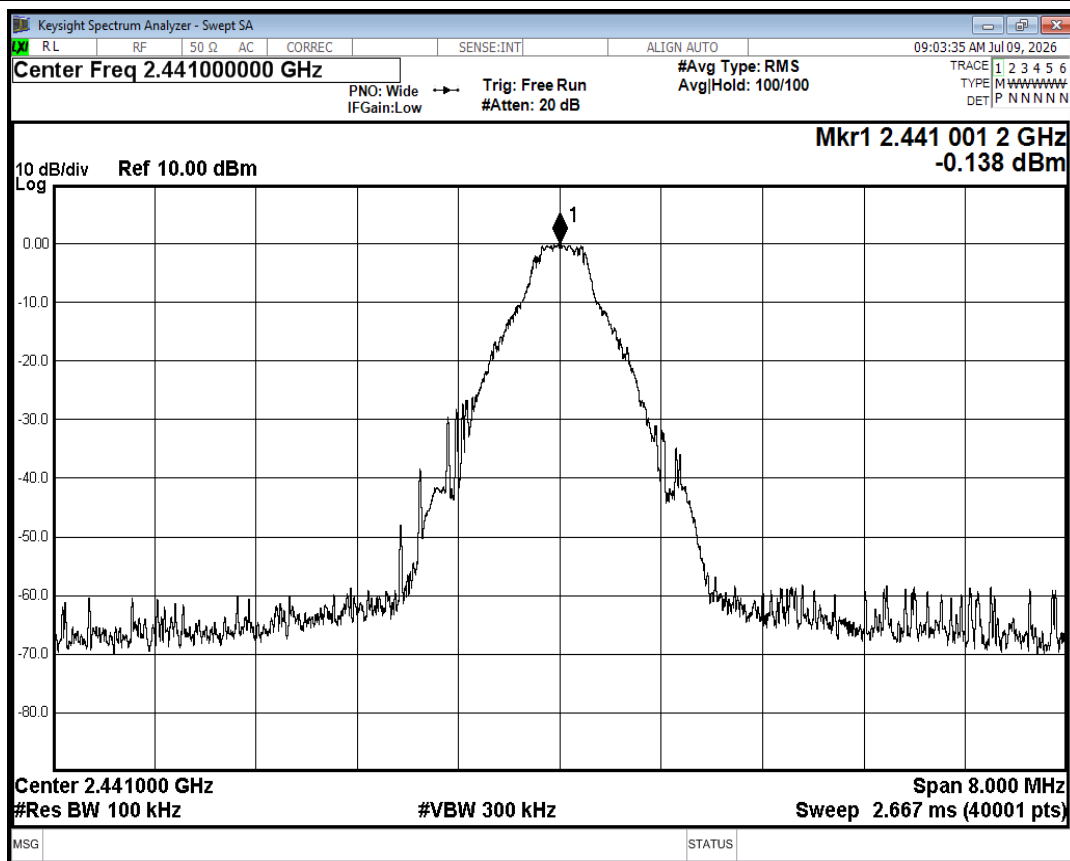
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-42.35	-20	Pass
NVNT	1-DH5	2441	Ant1	-46.44	-20	Pass
NVNT	1-DH5	2480	Ant1	-47.17	-20	Pass
NVNT	2-DH5	2402	Ant1	-43.14	-20	Pass
NVNT	2-DH5	2441	Ant1	-46.48	-20	Pass
NVNT	2-DH5	2480	Ant1	-45.91	-20	Pass
NVNT	3-DH5	2402	Ant1	-43.87	-20	Pass
NVNT	3-DH5	2441	Ant1	-46.28	-20	Pass
NVNT	3-DH5	2480	Ant1	-45.79	-20	Pass



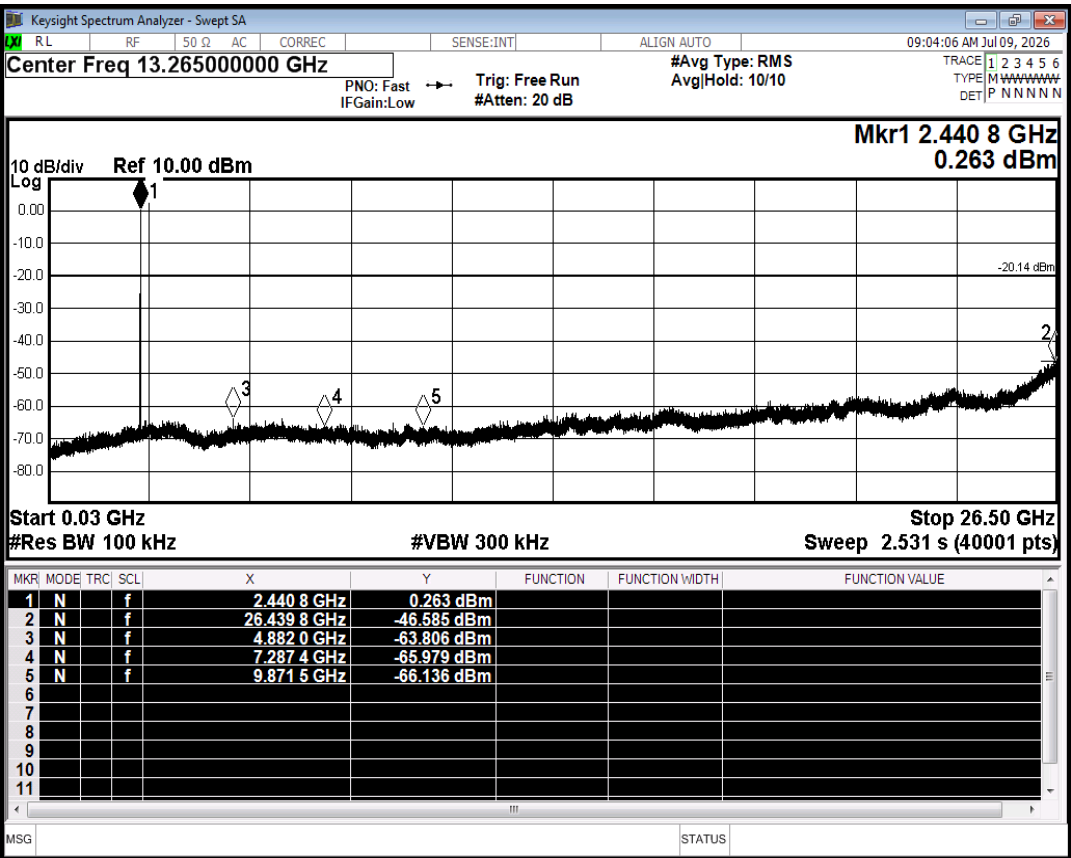
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



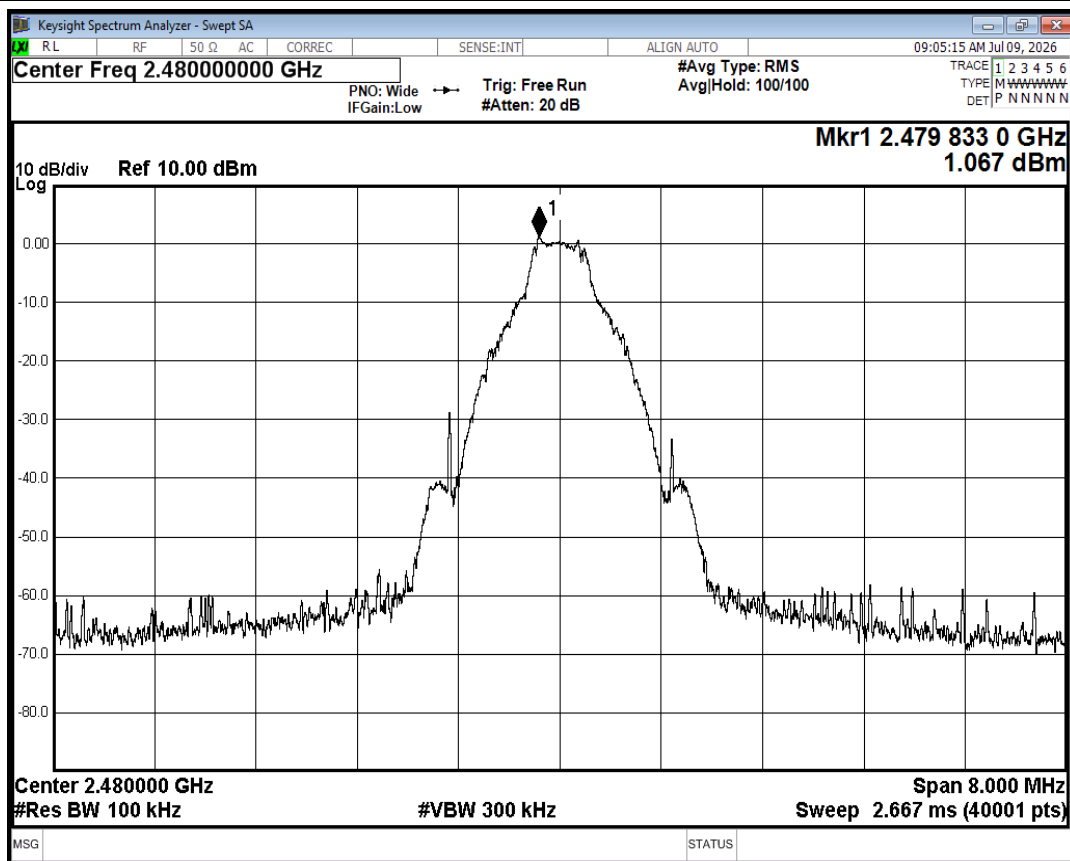
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



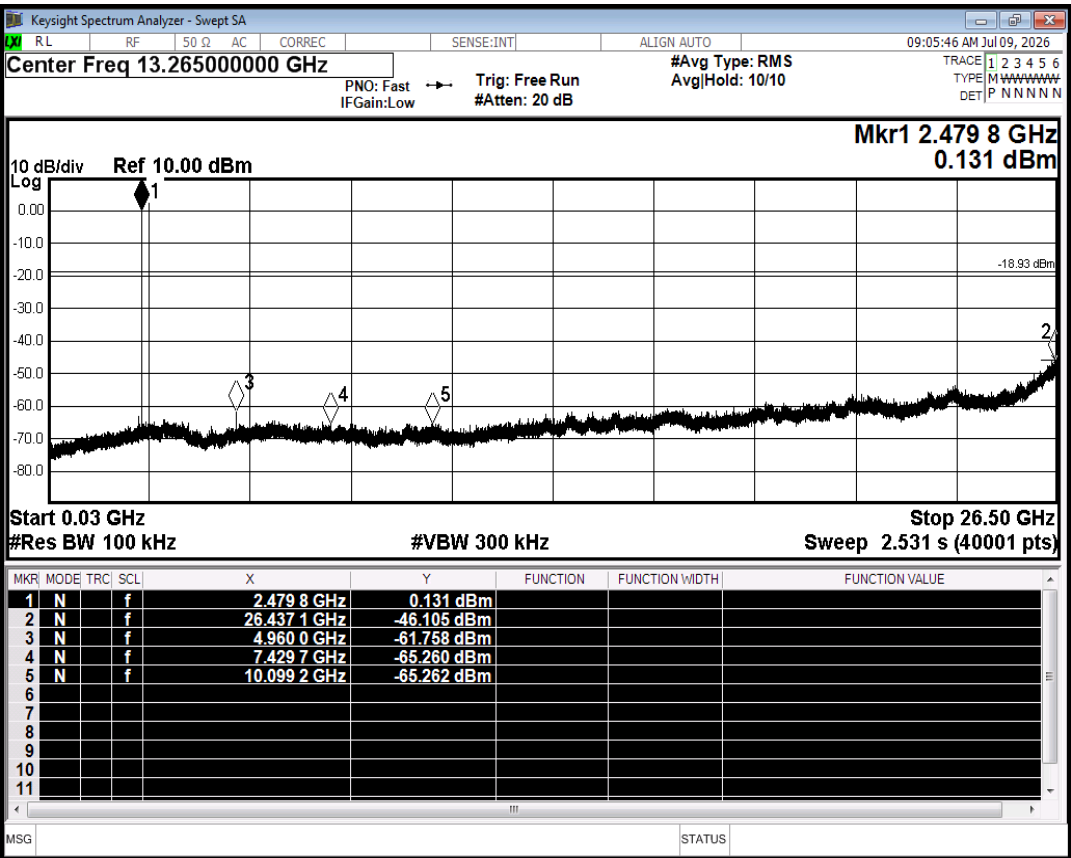
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



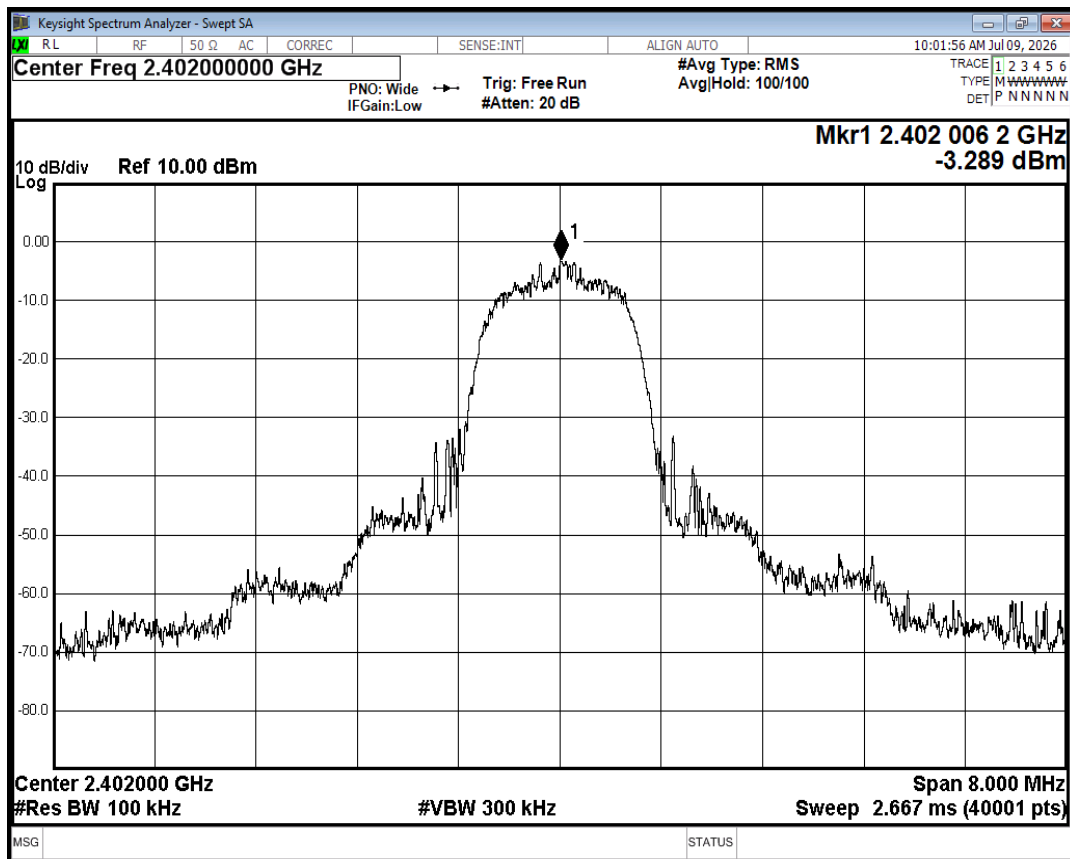
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



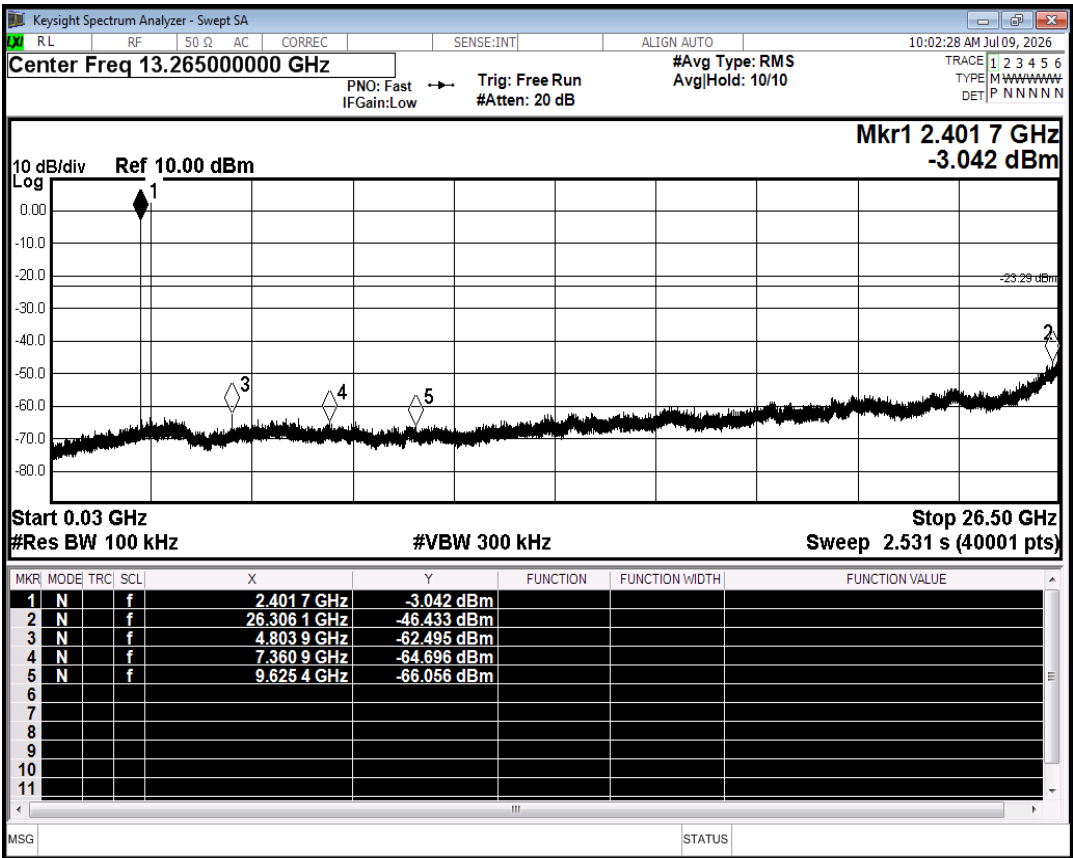
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



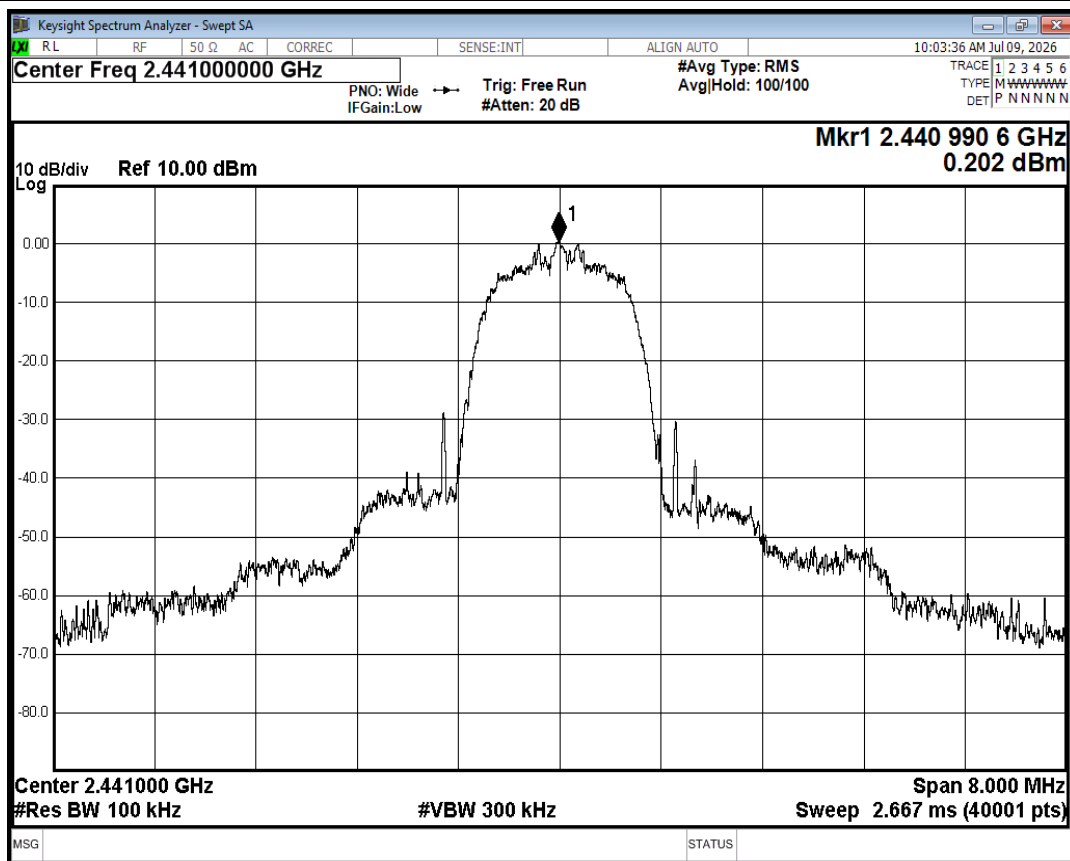
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



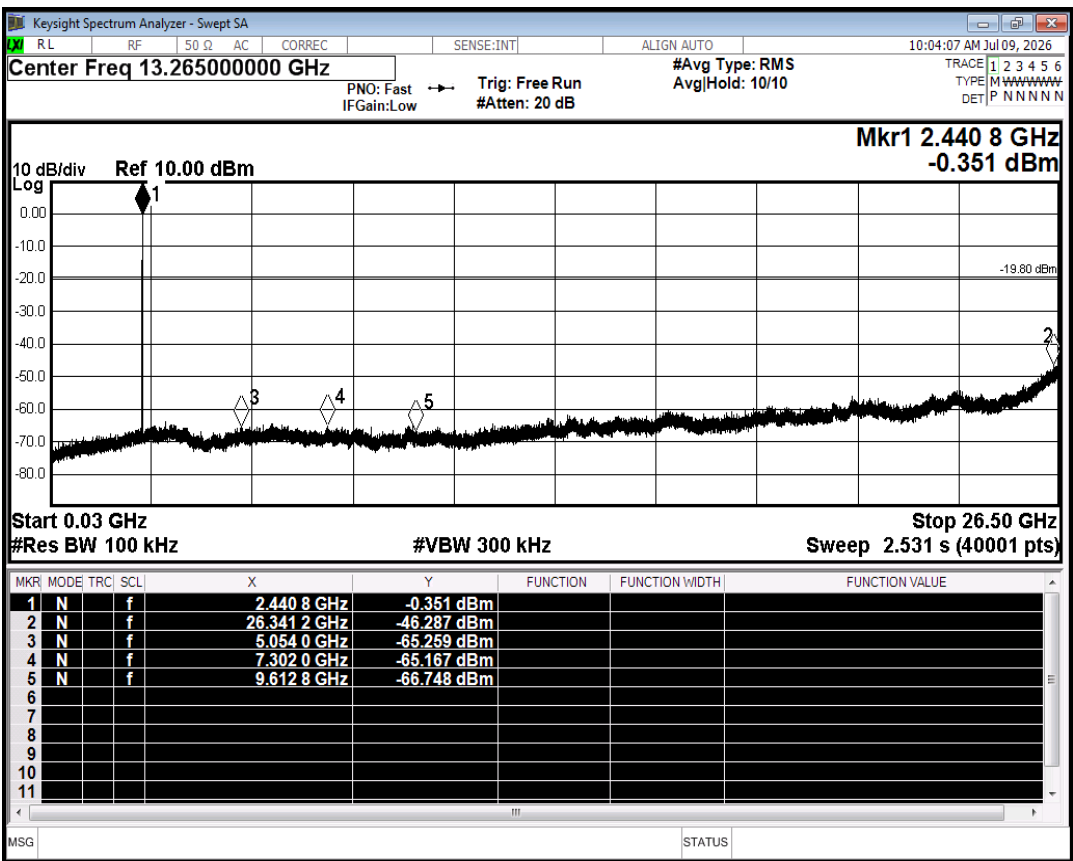
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



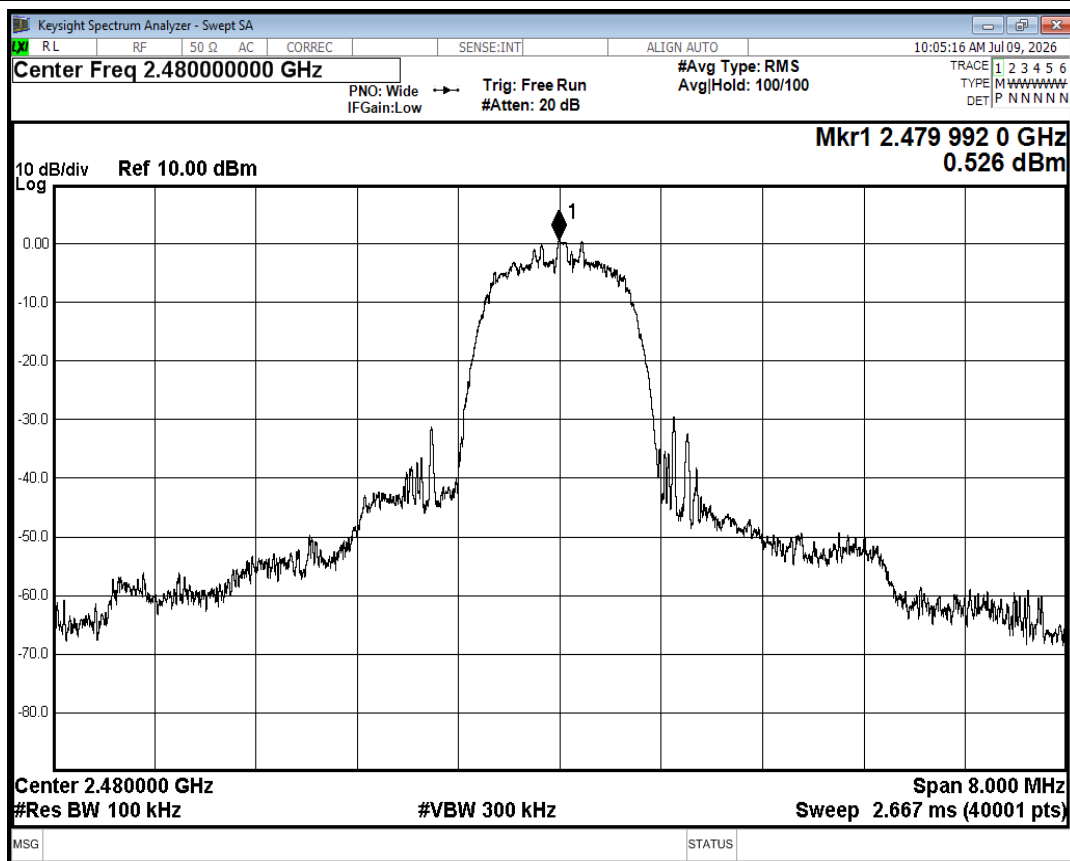
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



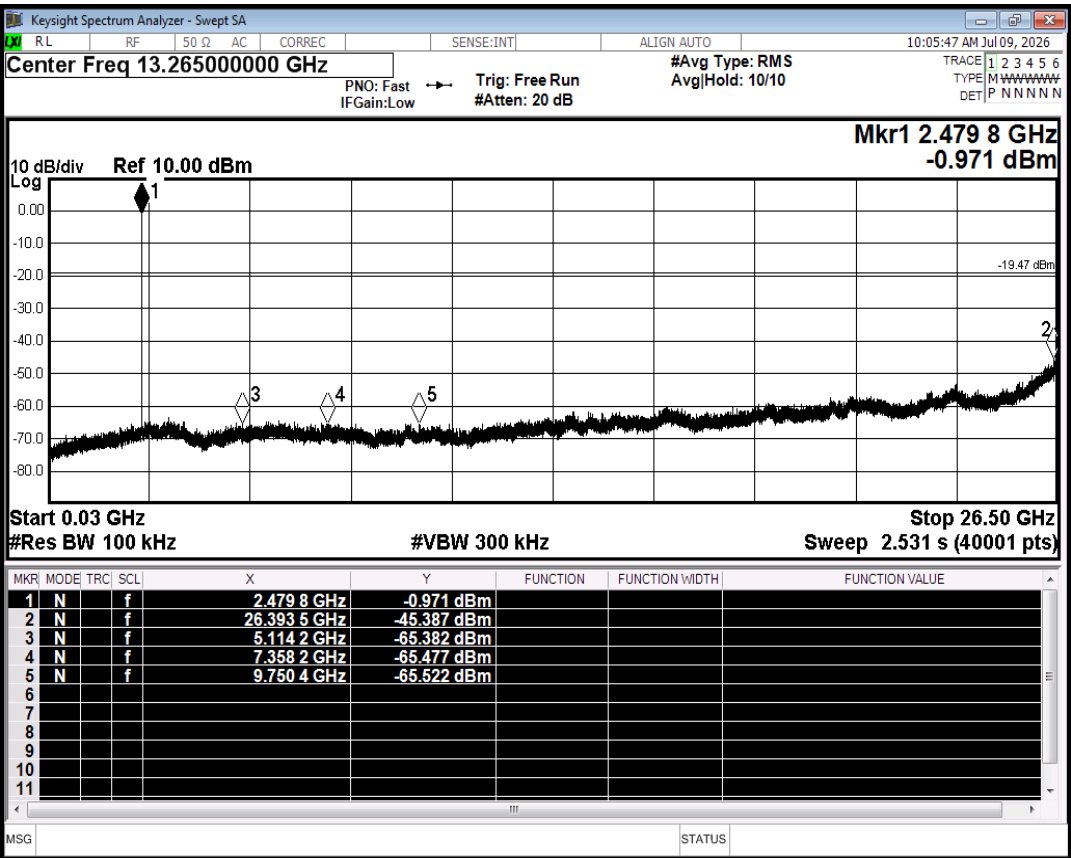
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



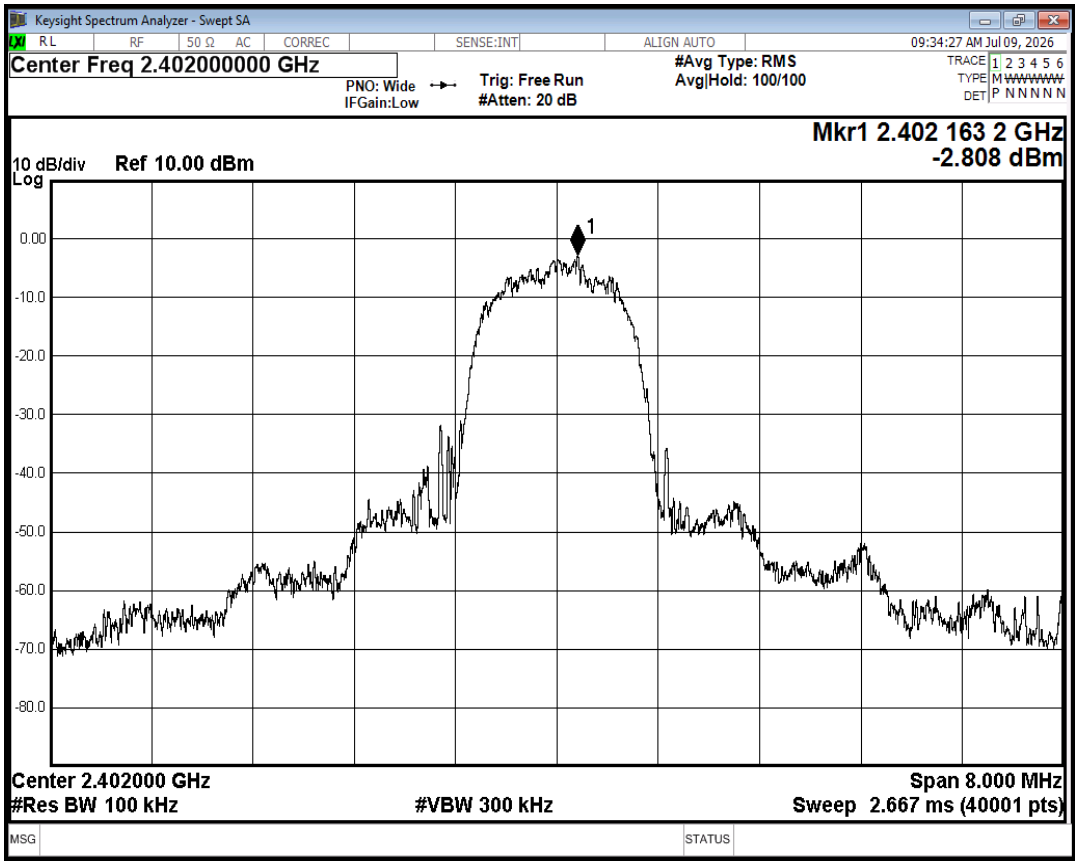
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



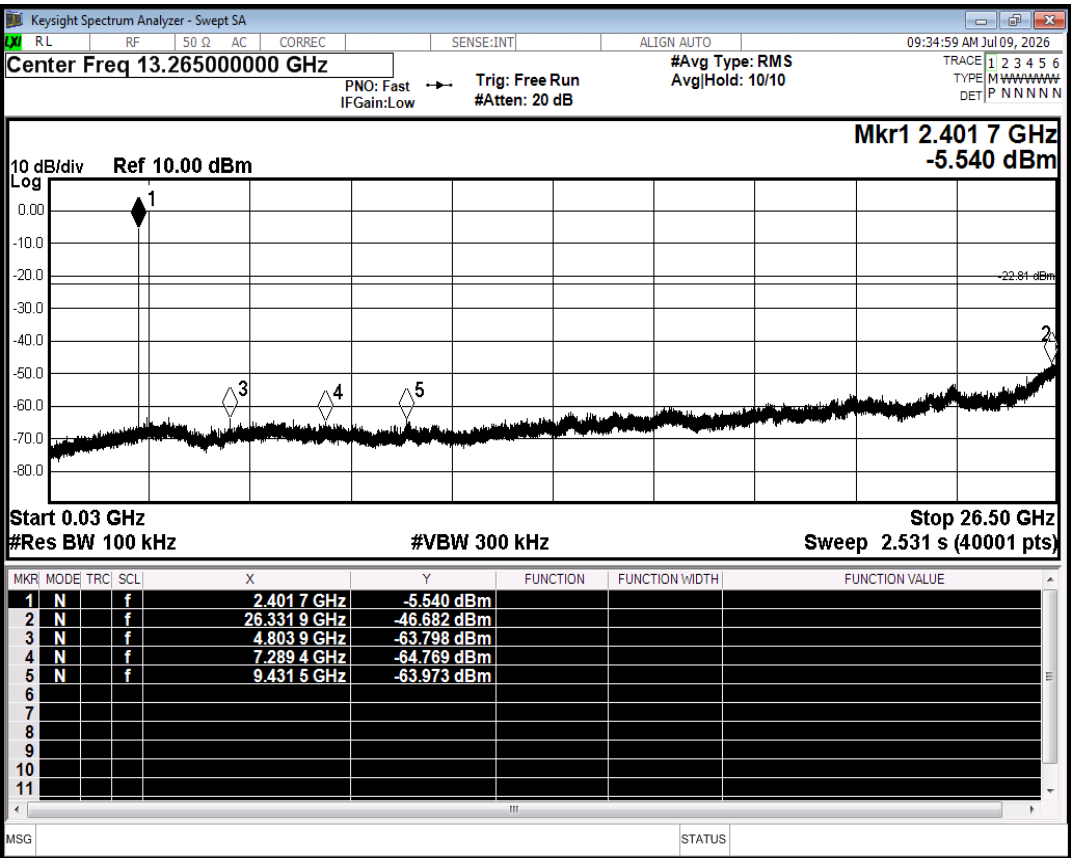
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



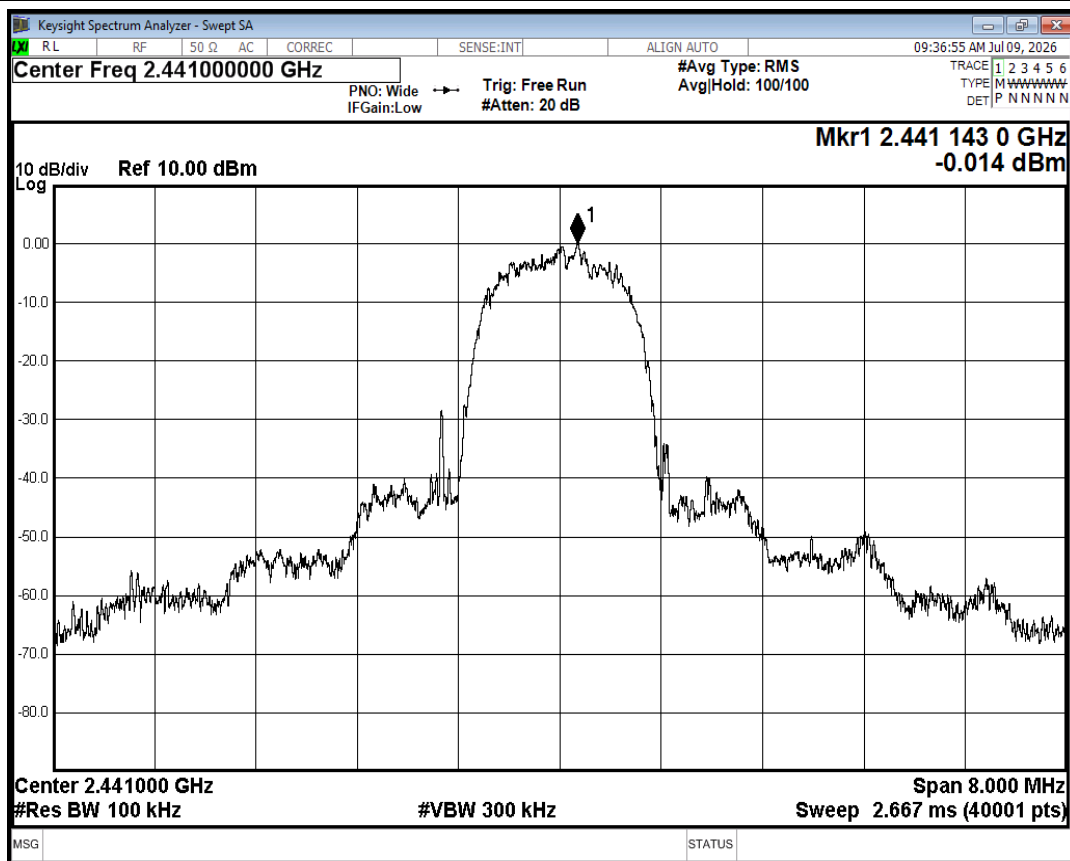
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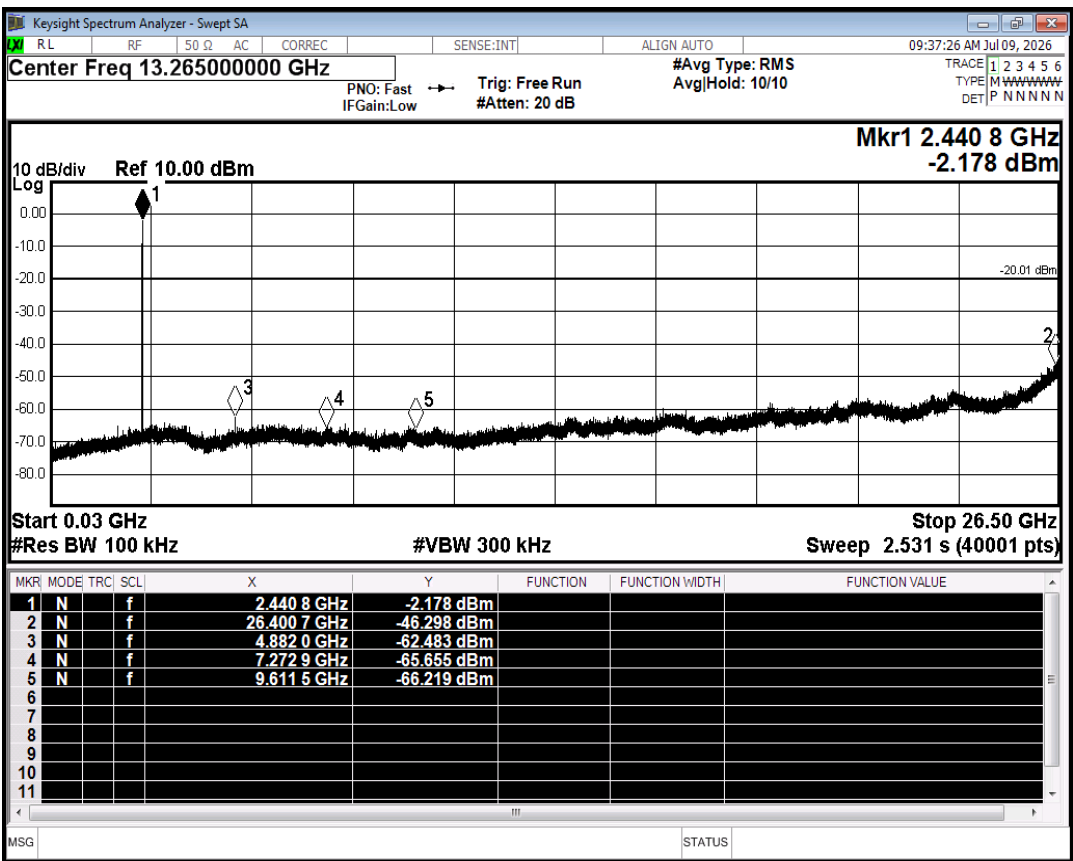
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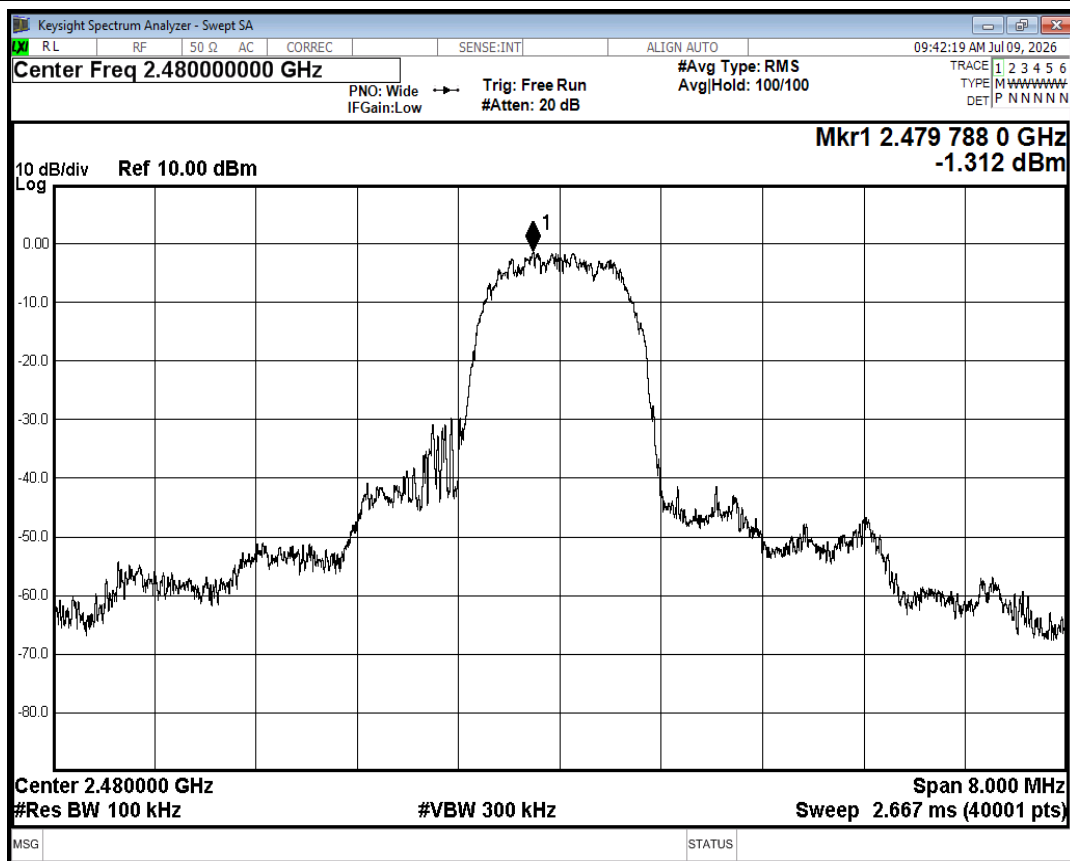
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



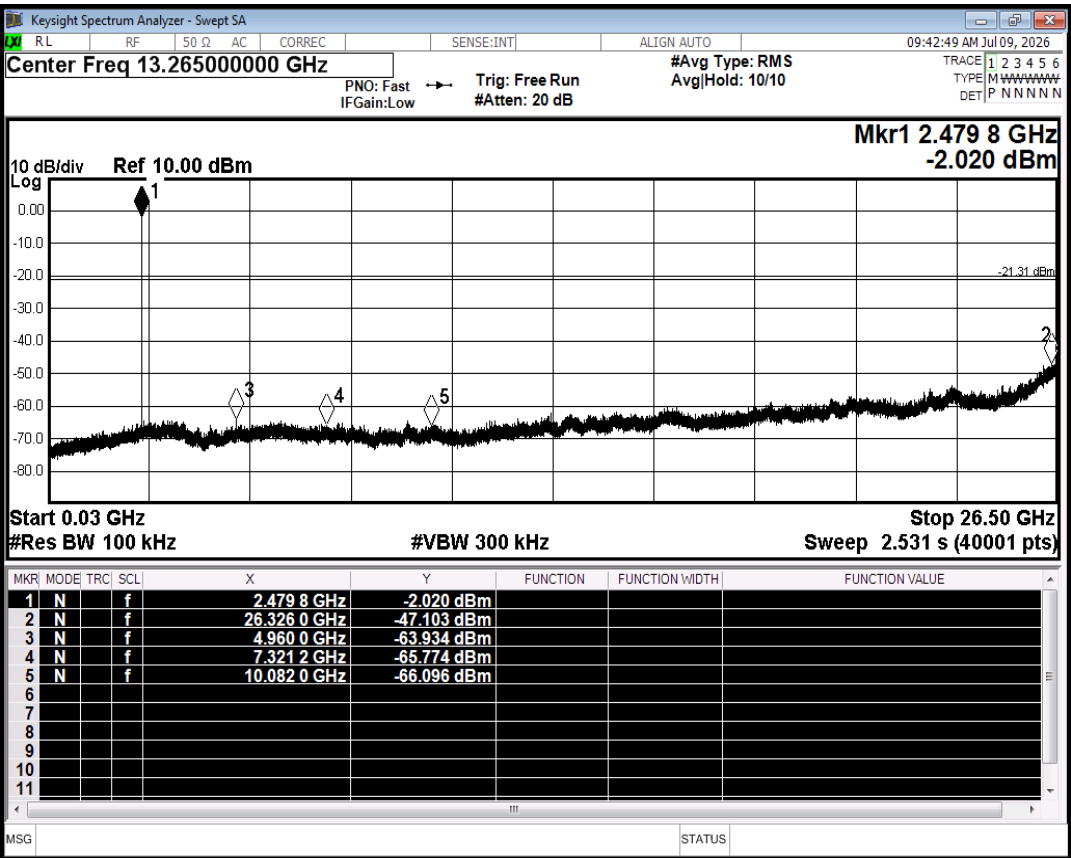
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



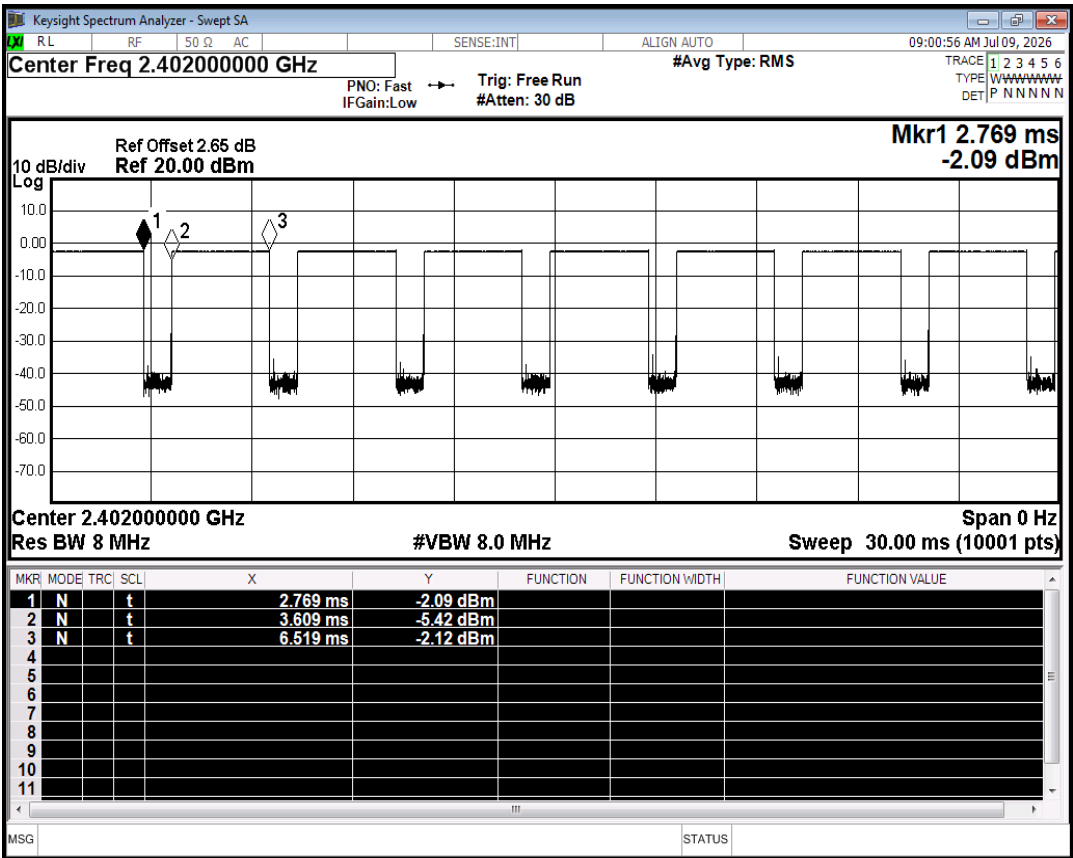
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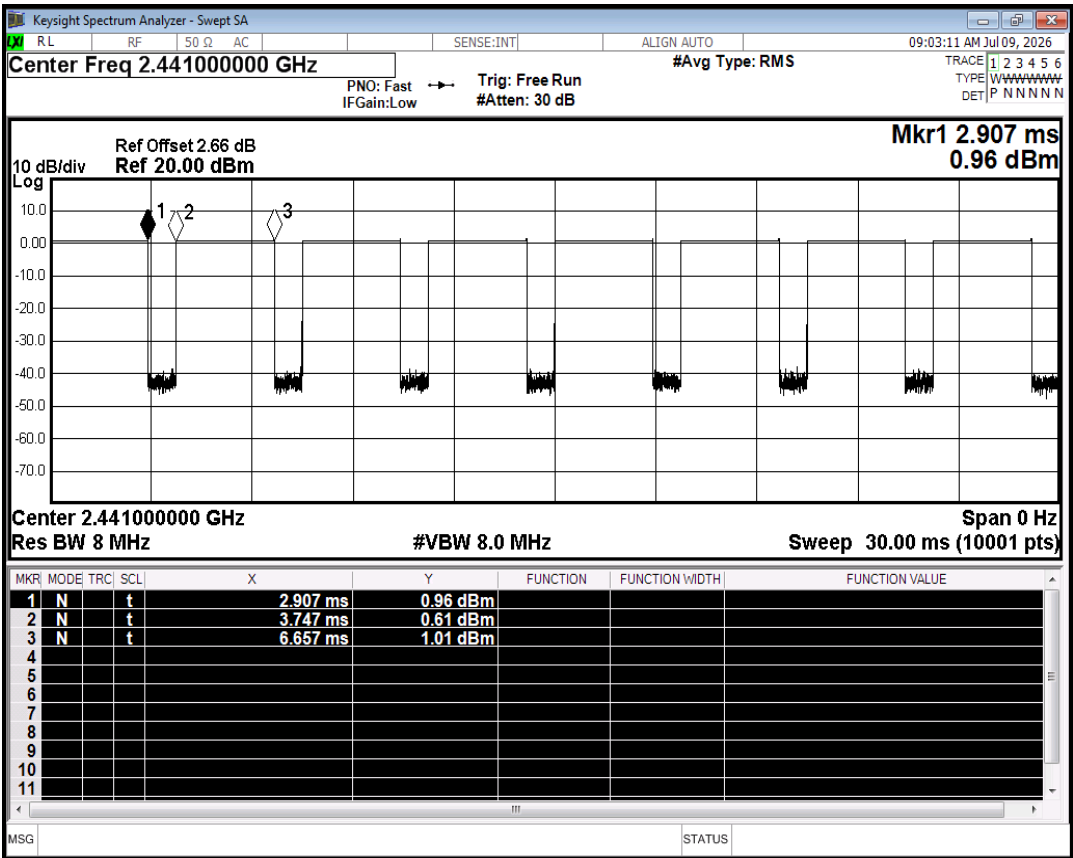
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

A.8 Duty Cycle

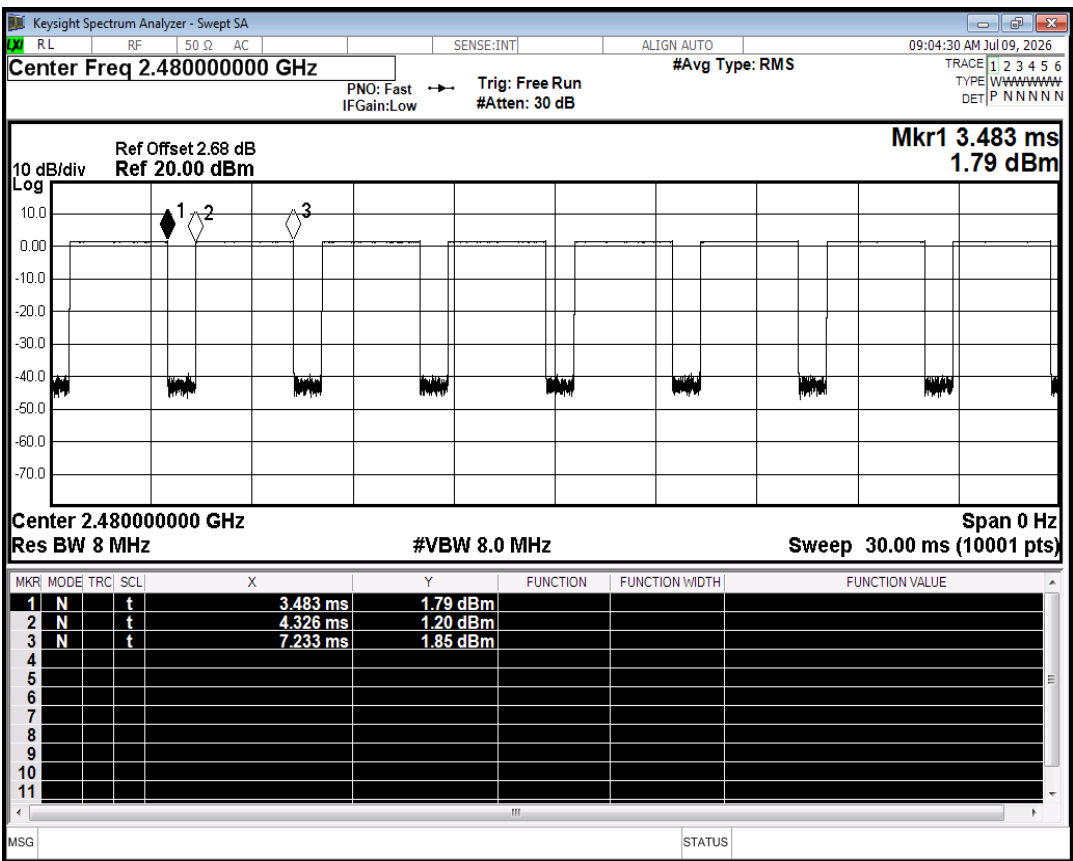
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.52	1.11	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.2	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35



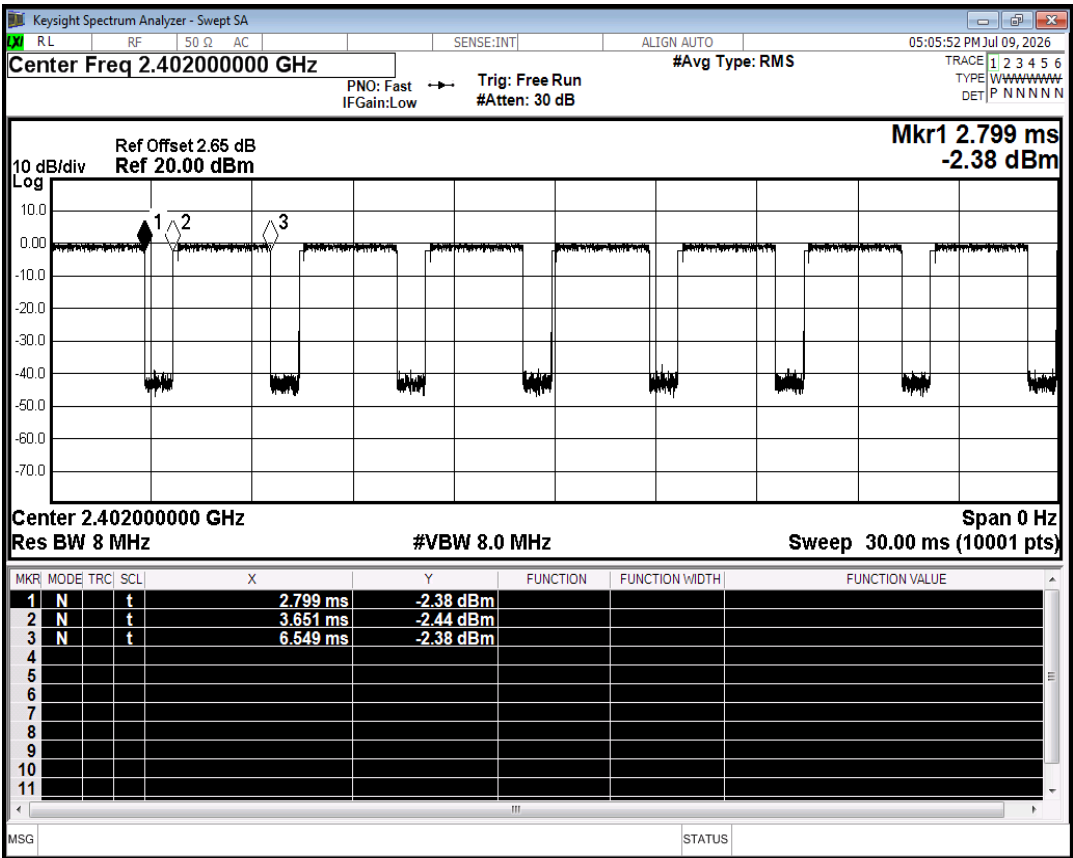
Duty Cycle NVNT 1-DH5 2402MHz Ant1



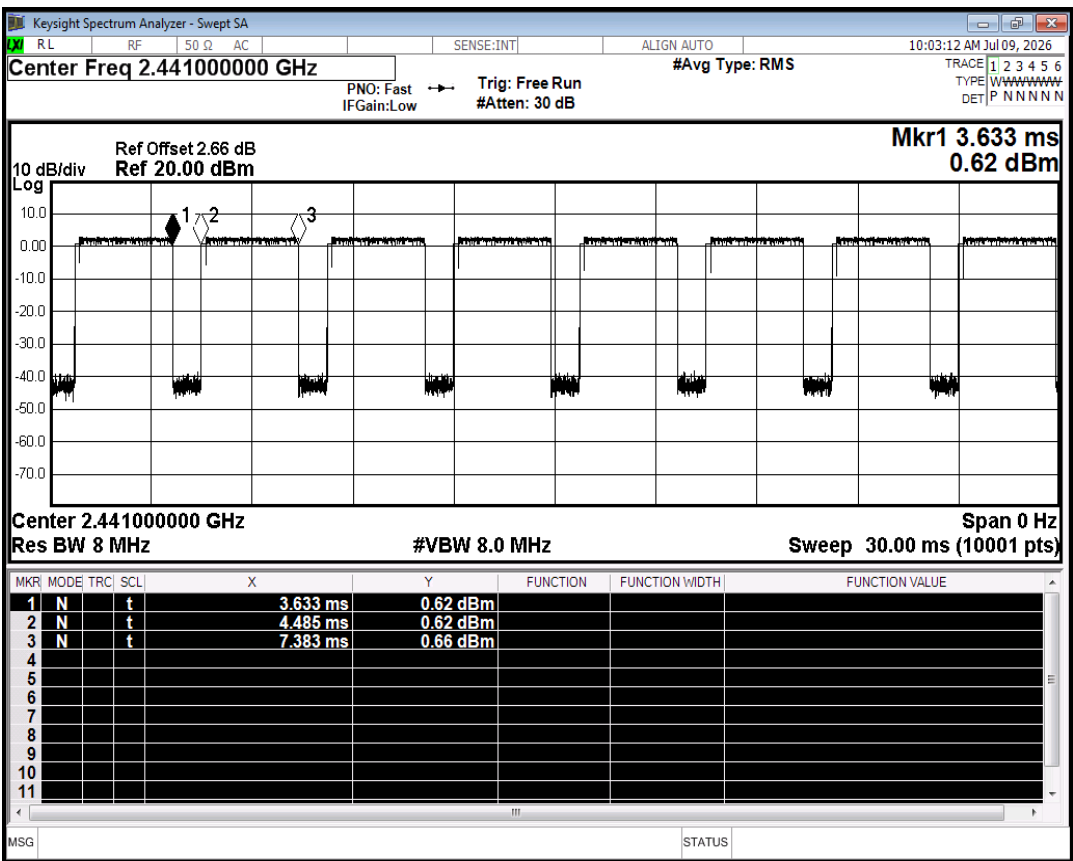
Duty Cycle NVNT 1-DH5 2441MHz Ant1



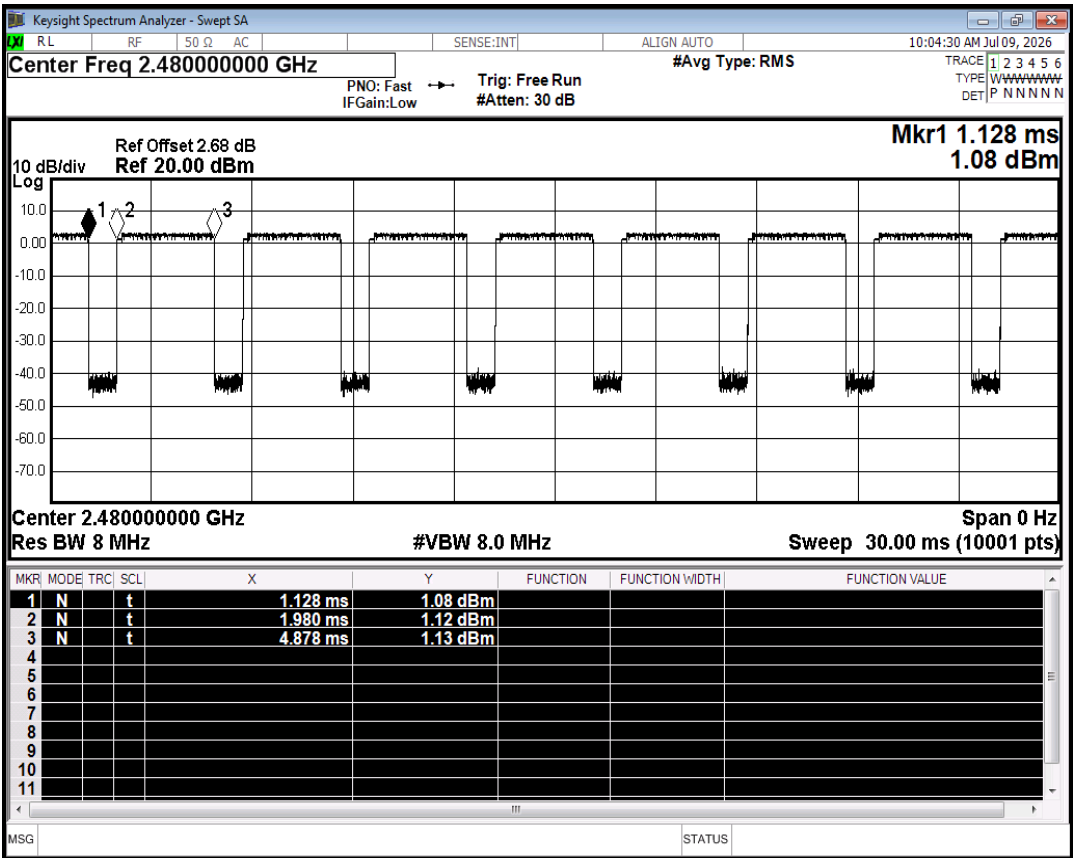
Duty Cycle NVNT 1-DH5 2480MHz Ant1



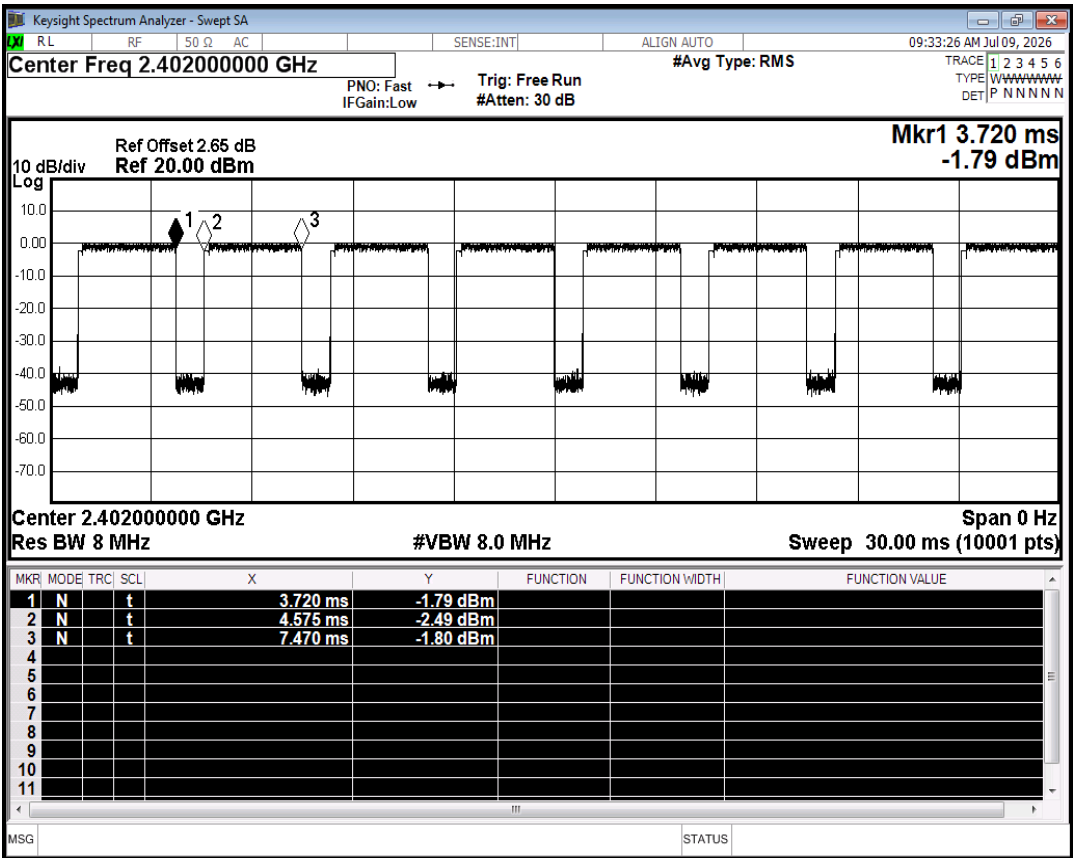
Duty Cycle NVNT 2-DH5 2402MHz Ant1



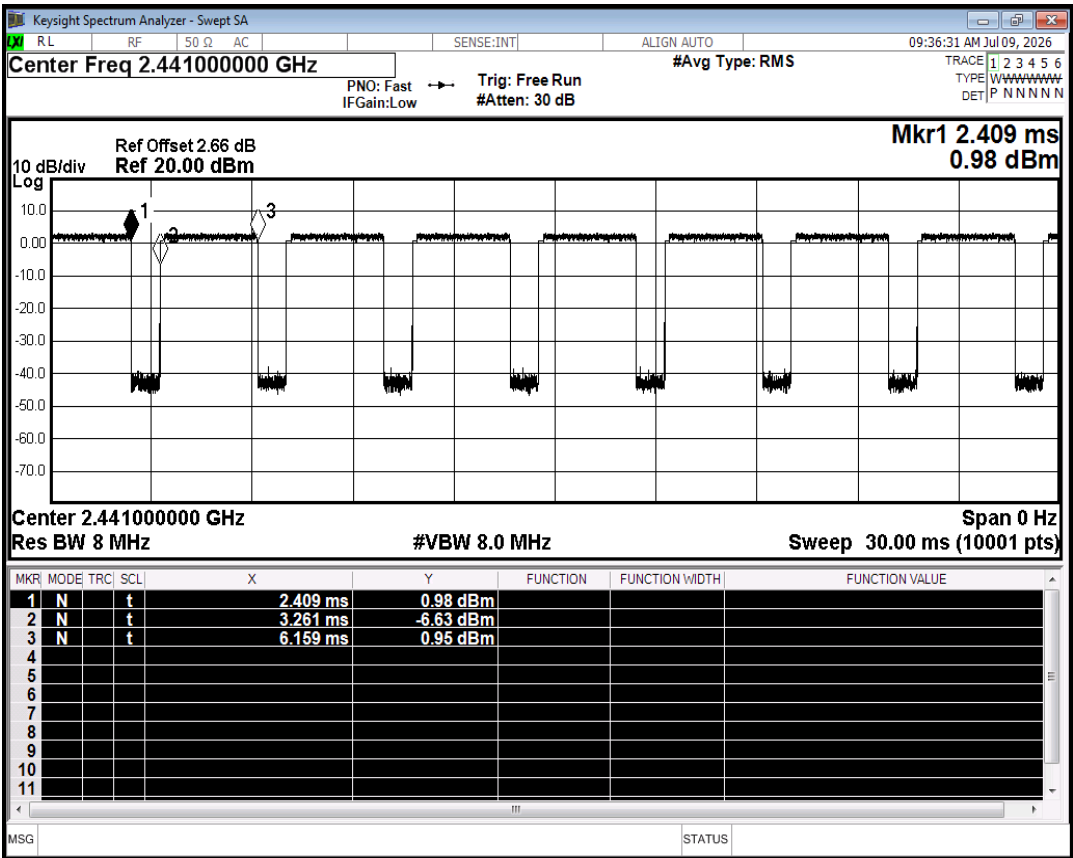
Duty Cycle NVNT 2-DH5 2441MHz Ant1



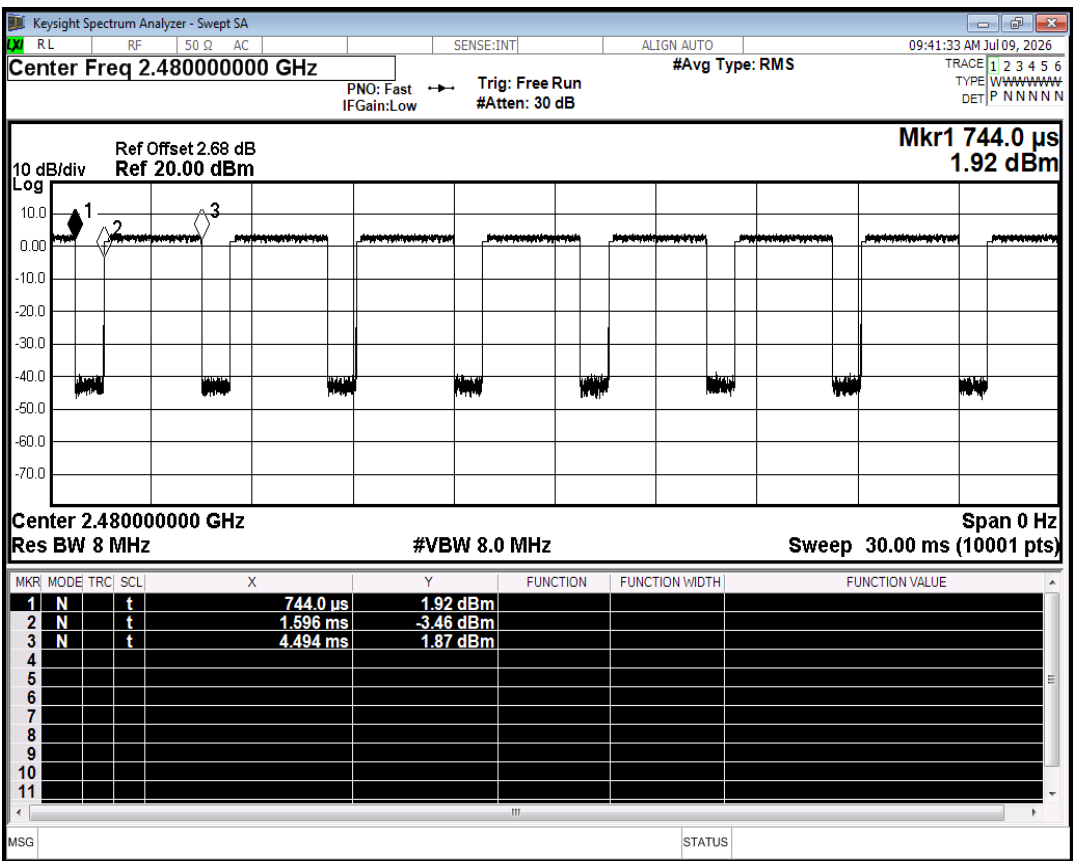
Duty Cycle NVNT 2-DH5 2480MHz Ant1



Duty Cycle NVNT 3-DH5 2402MHz Ant1



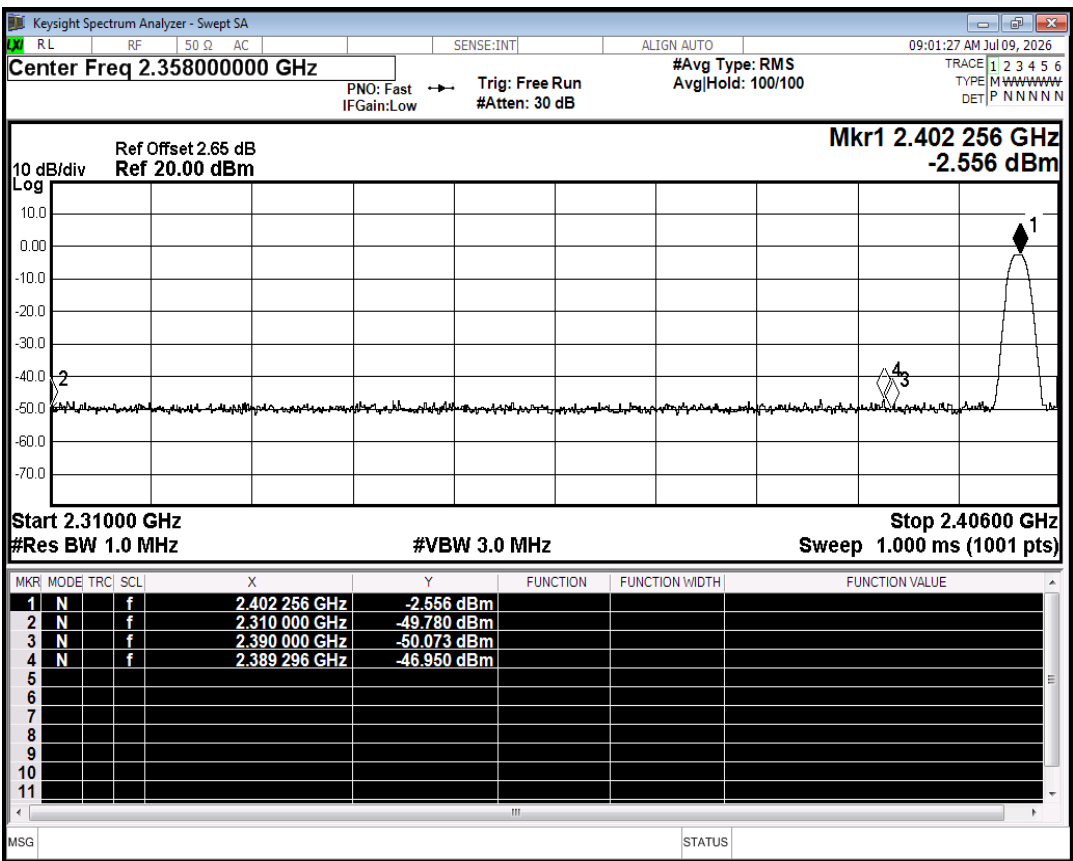
Duty Cycle NVNT 3-DH5 2441MHz Ant1



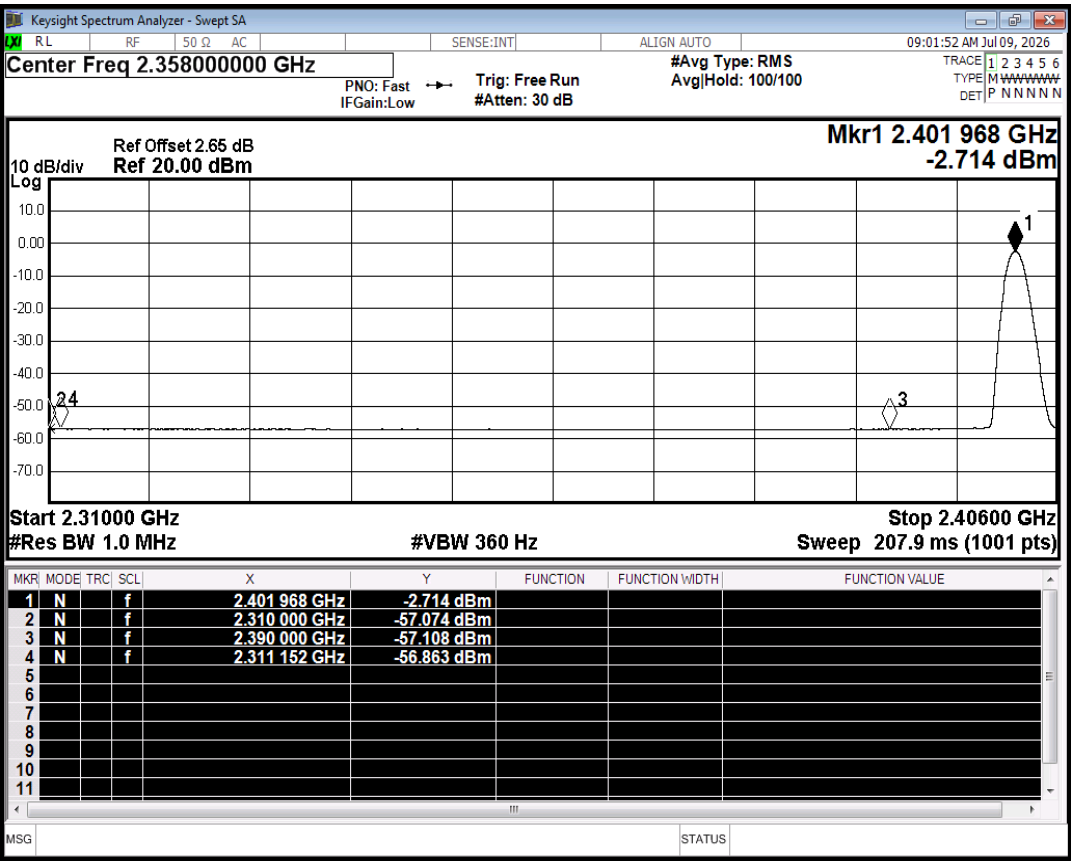
Duty Cycle NVNT 3-DH5 2480MHz Ant1

A.9 Restrict Band

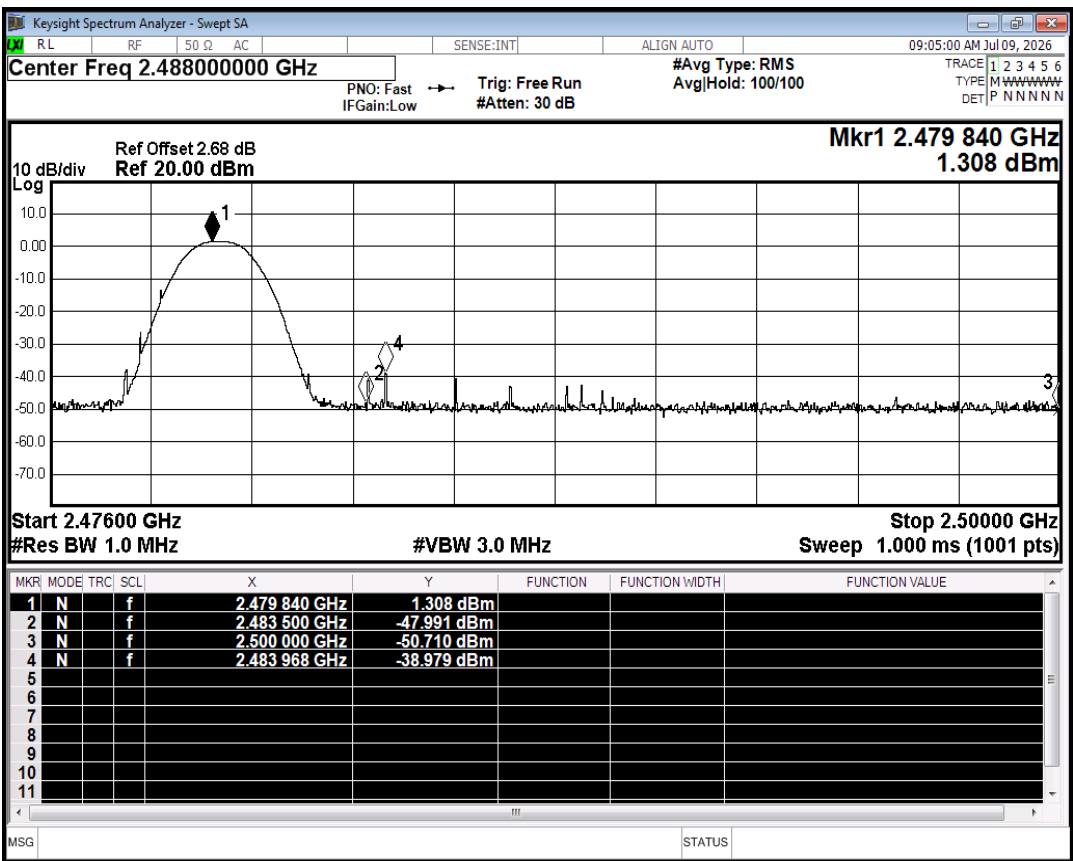
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.78	2.22	47.70	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.07	2.22	40.41	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.296	-46.95	2.22	50.53	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2311.152	-56.86	2.22	40.62	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.29	2.22	47.19	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.11	2.22	40.37	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.99	2.22	49.49	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.15	2.22	42.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.968	-38.97	2.22	58.51	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.15	2.22	42.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.7	2.22	46.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.94	2.22	40.54	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-48.9	2.22	48.58	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-55.98	2.22	41.50	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2359.824	-47.06	2.22	50.42	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2327.28	-55.05	2.22	42.43	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.17	2.22	47.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-55.67	2.22	41.81	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-44.81	2.22	52.67	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-53.58	2.22	43.90	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.112	-41.25	2.22	56.23	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-53.58	2.22	43.90	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.35	2.22	46.13	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.86	2.22	40.62	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.22	2.22	48.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.04	2.22	40.44	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2354.64	-47.26	2.22	50.22	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2312.112	-56.87	2.22	40.61	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.56	2.22	46.92	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.08	2.22	40.40	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-45.87	2.22	51.61	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-53.09	2.22	44.39	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.992	-39.58	2.22	57.90	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-53.09	2.22	44.39	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.36	2.22	47.12	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.99	2.22	40.49	Average	54	Pass



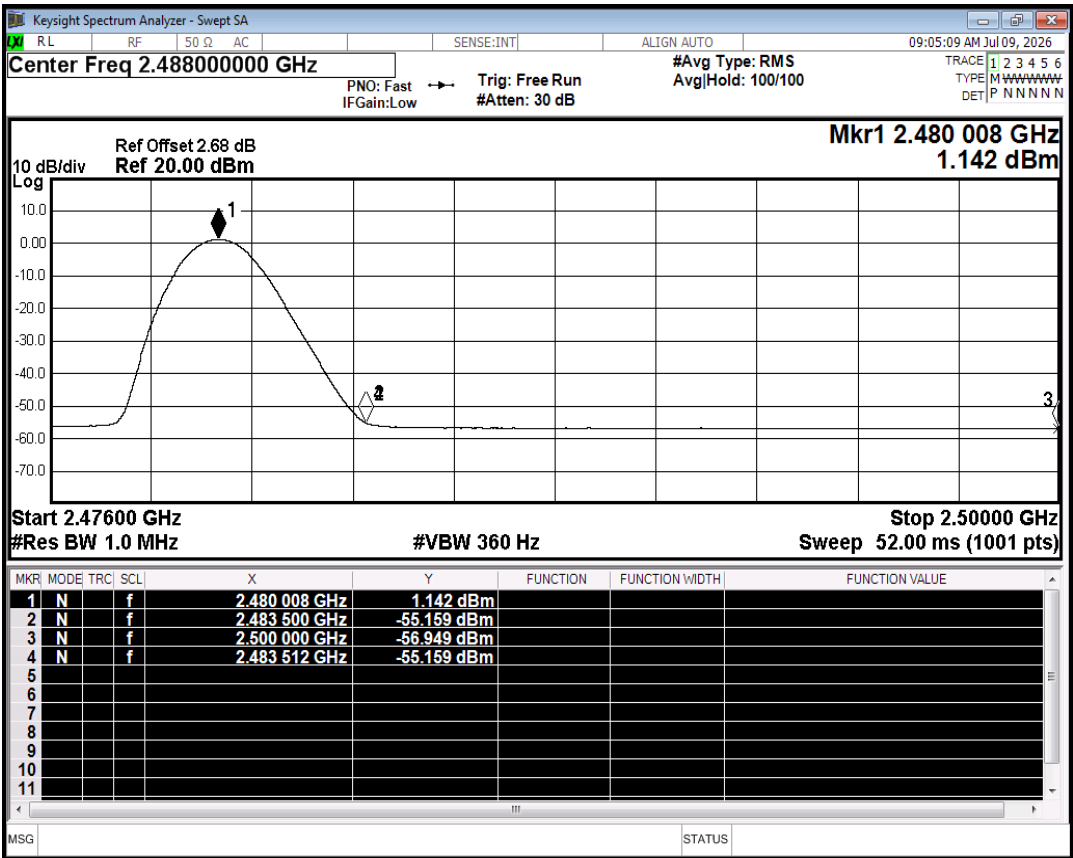
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



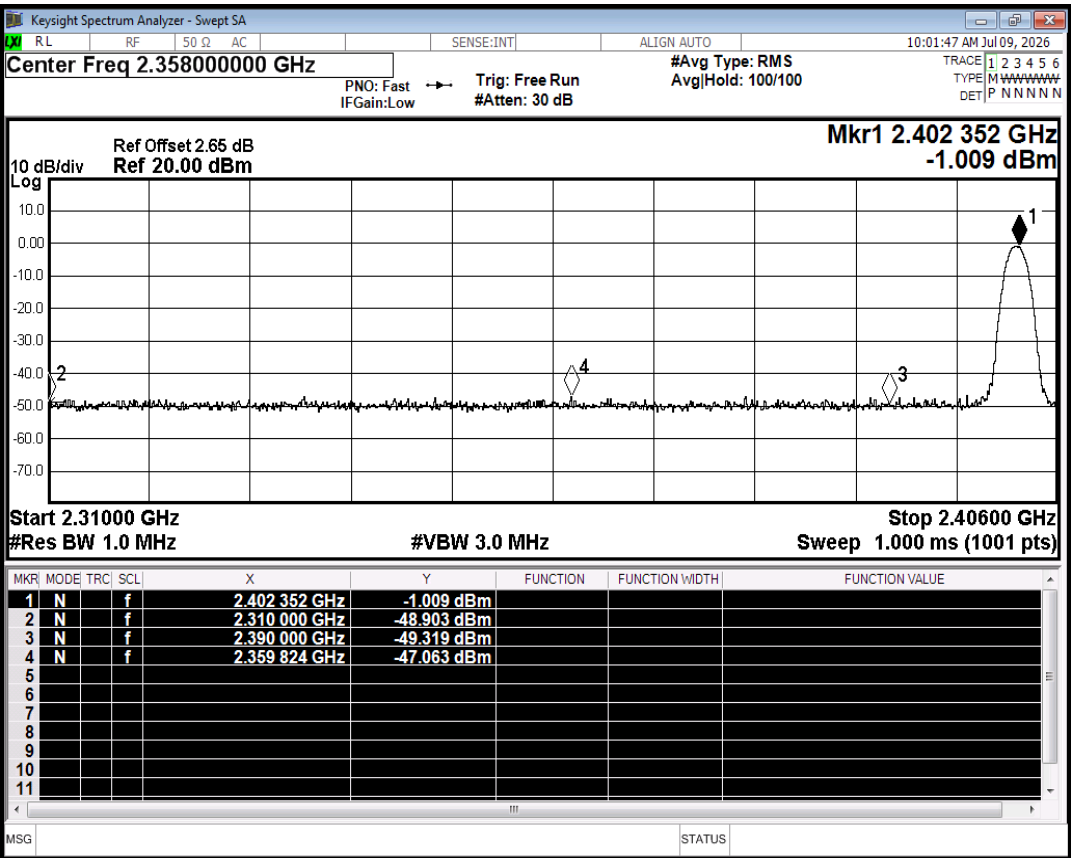
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



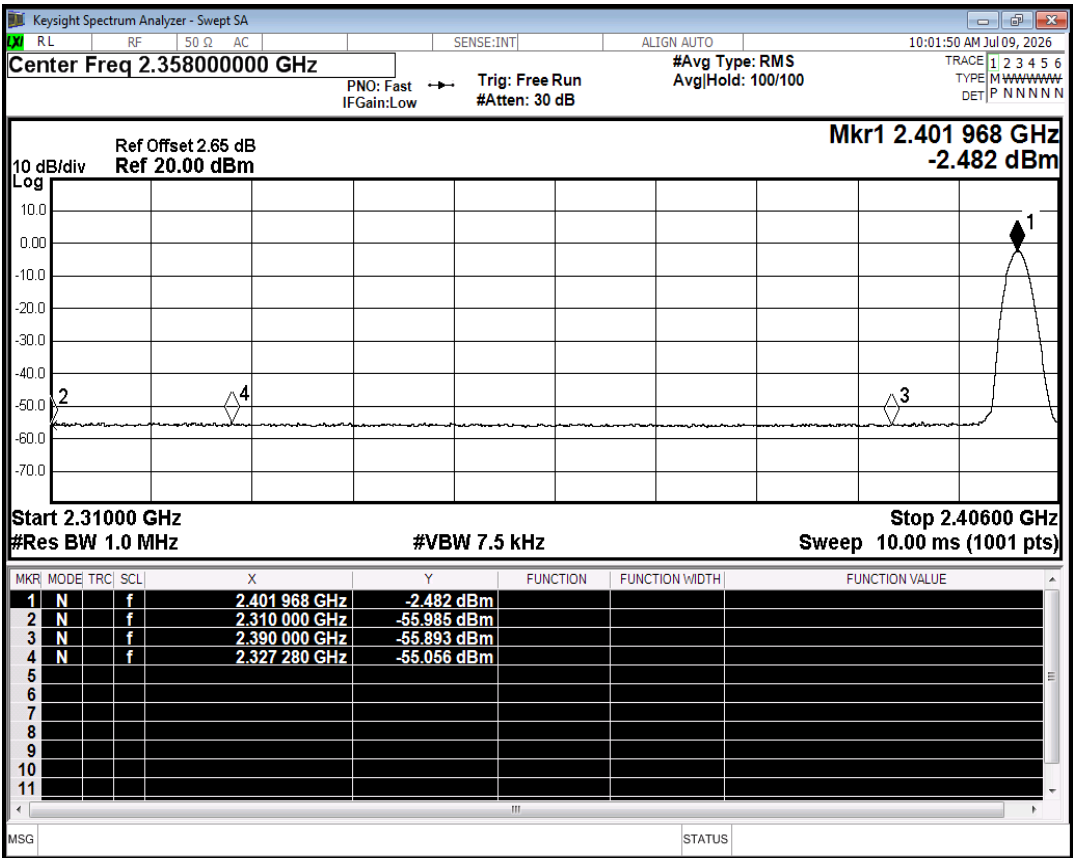
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



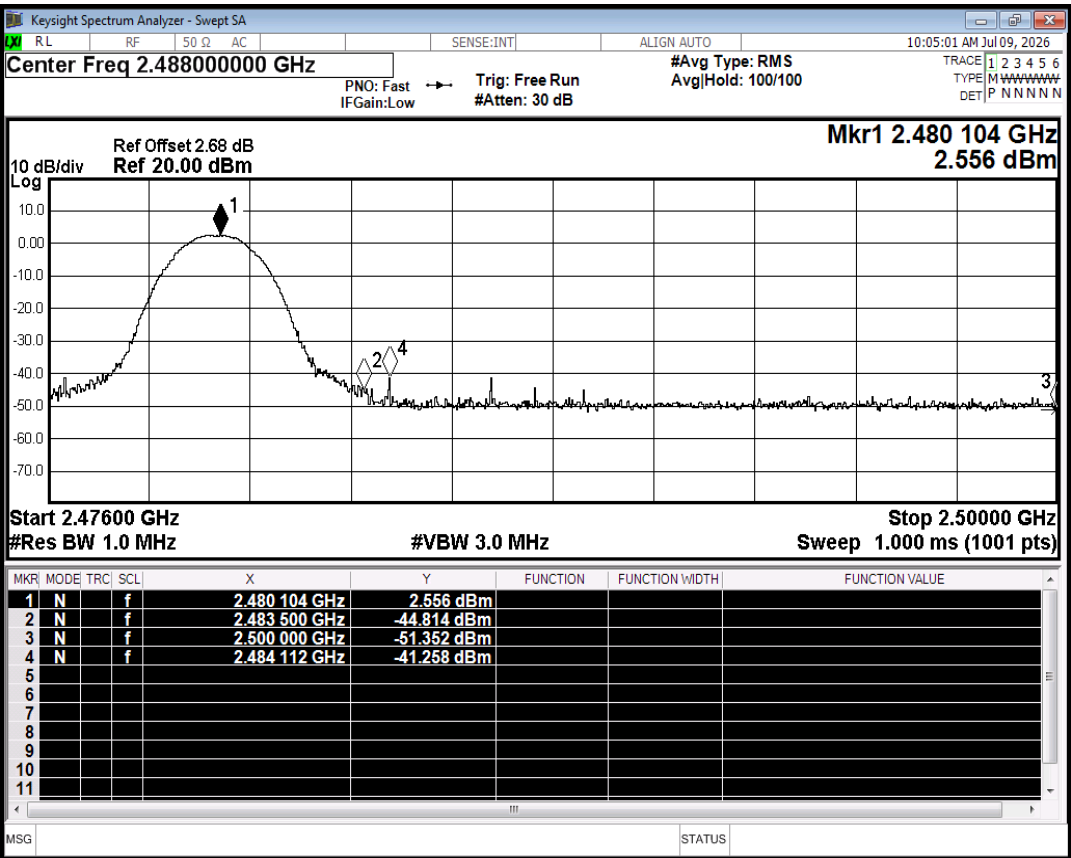
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



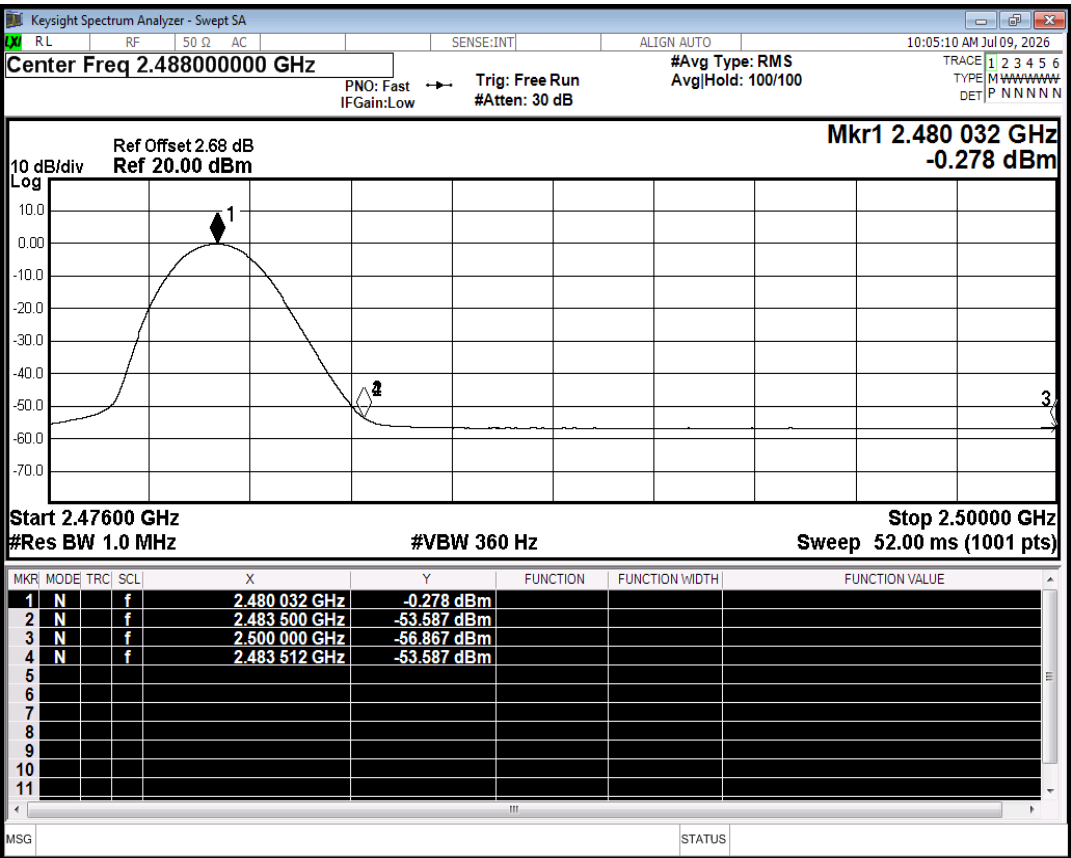
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



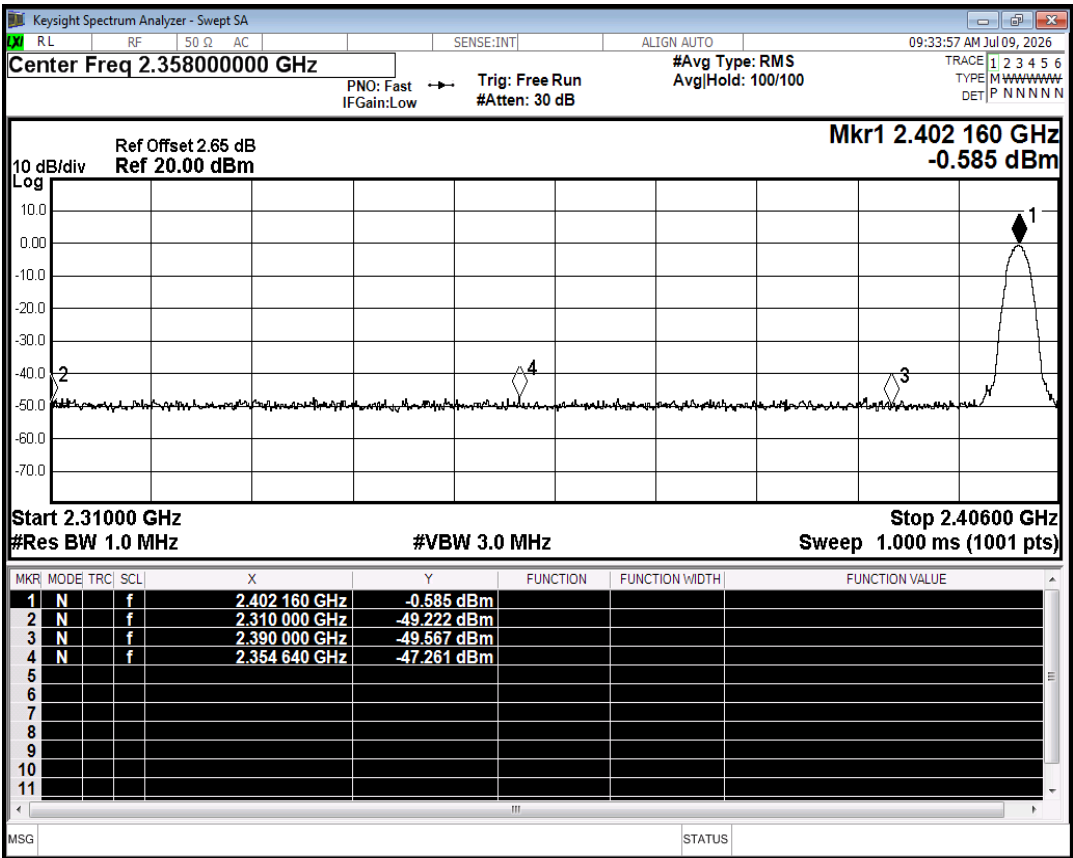
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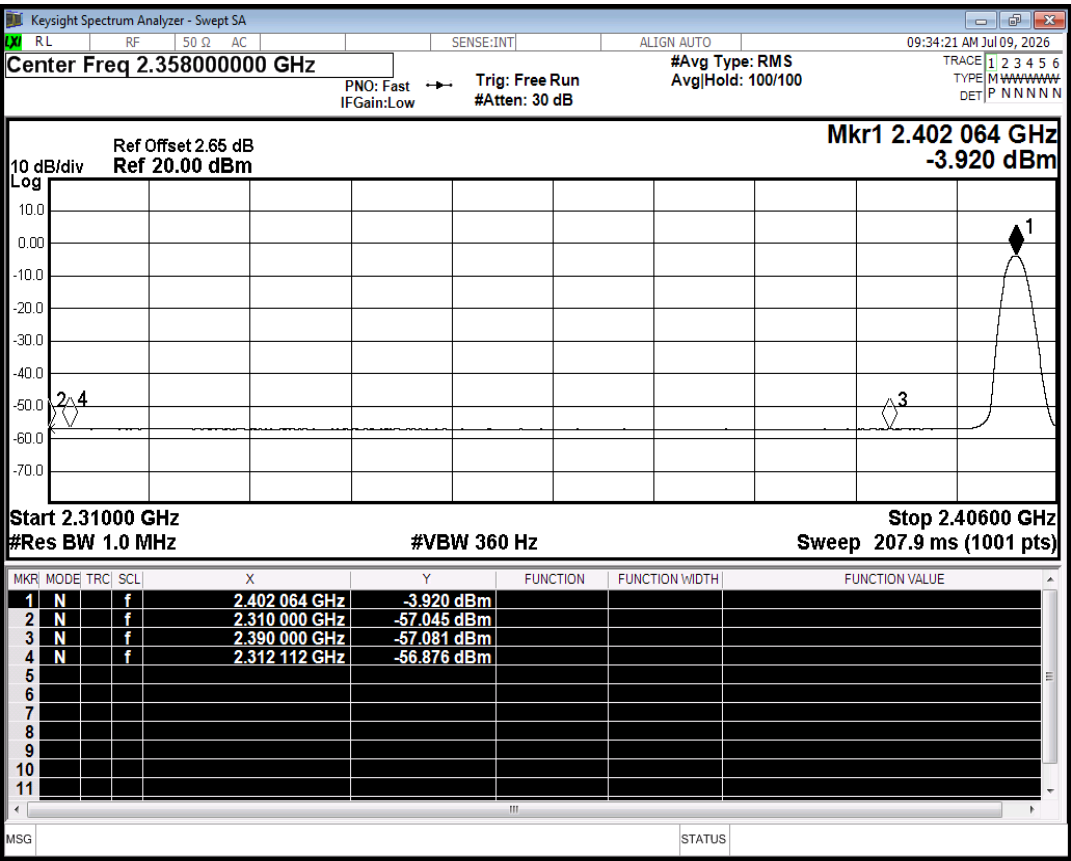
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



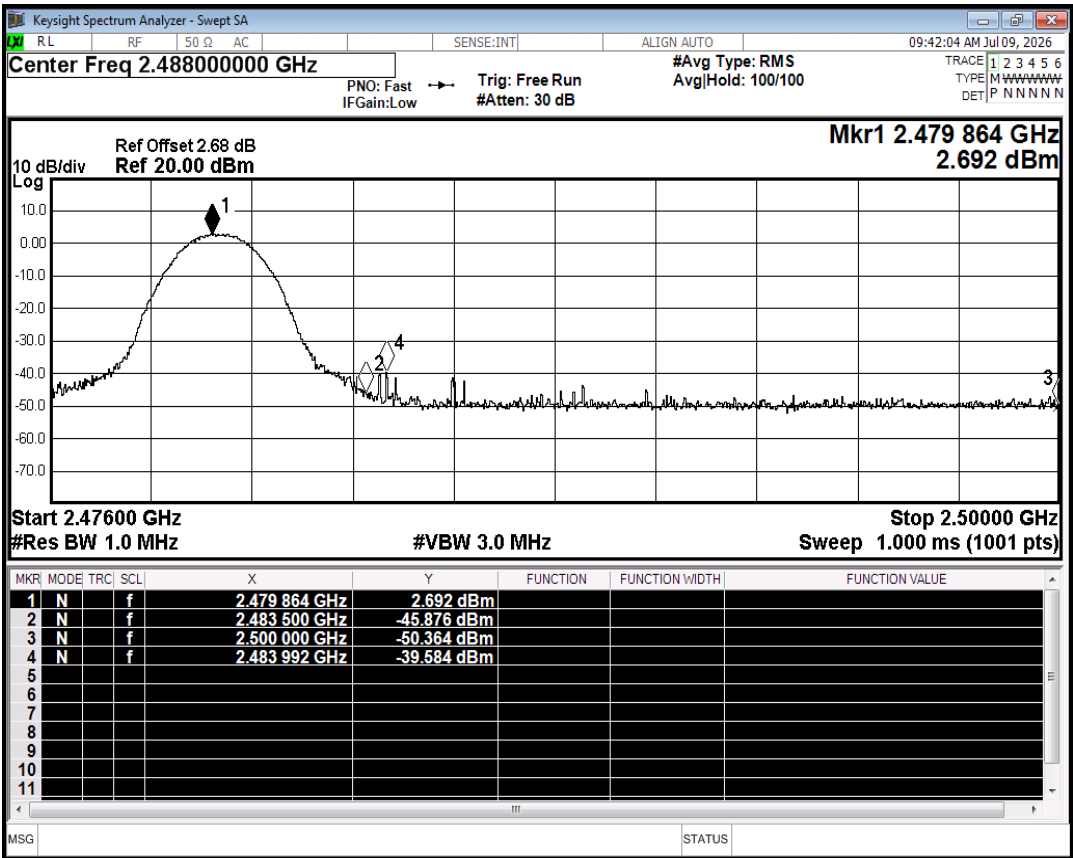
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



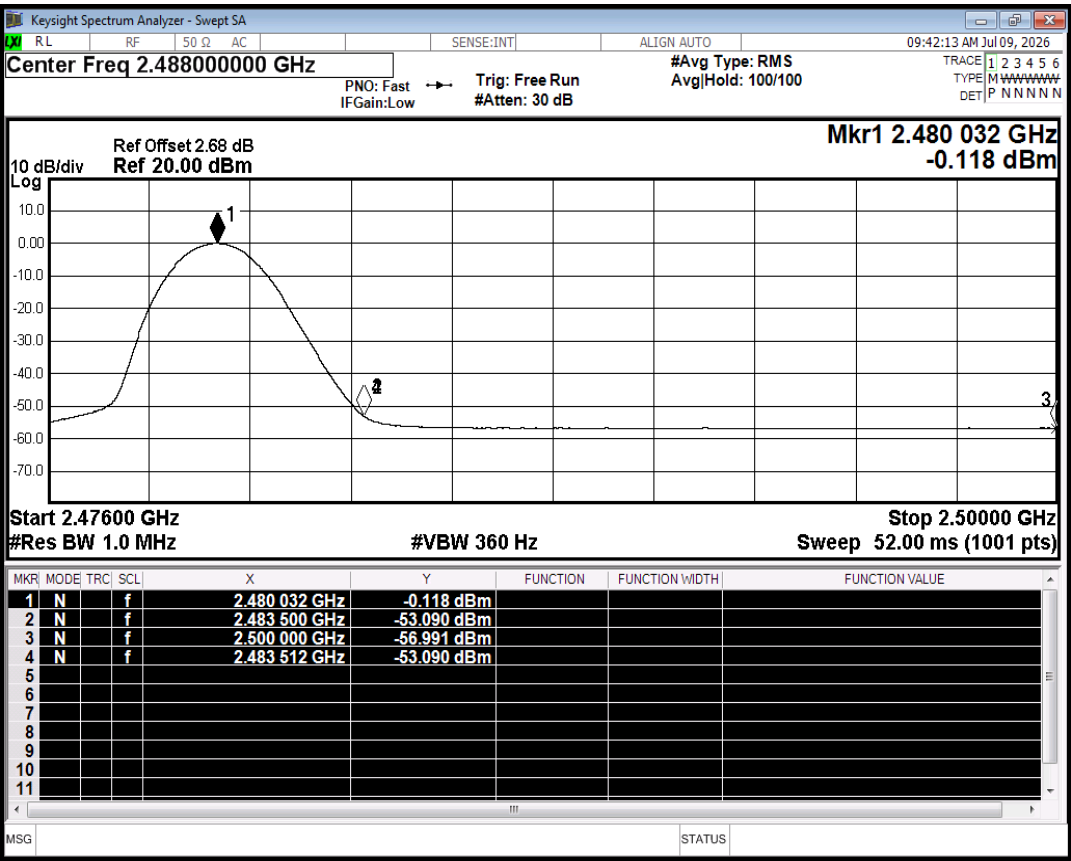
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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