



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mobile phone

Test Model: F161

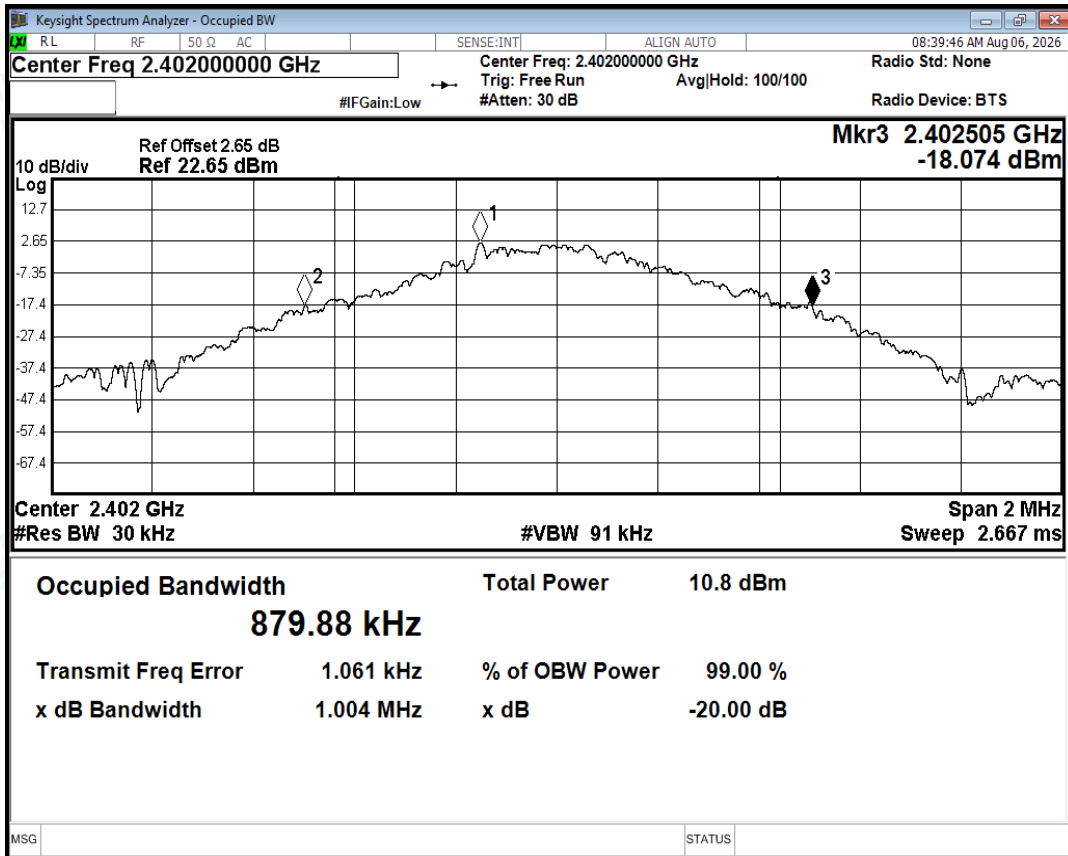
Environmental Conditions

Temperature:	25.6°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

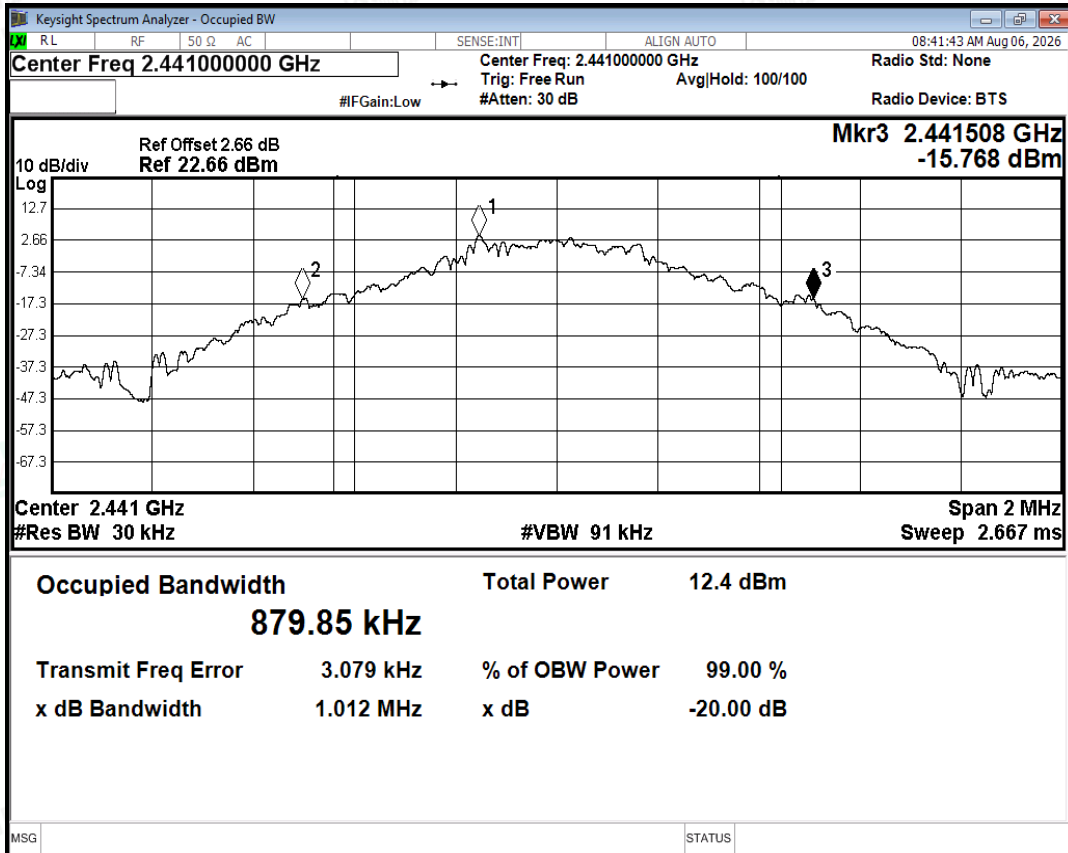


A.1 -20dB Bandwidth

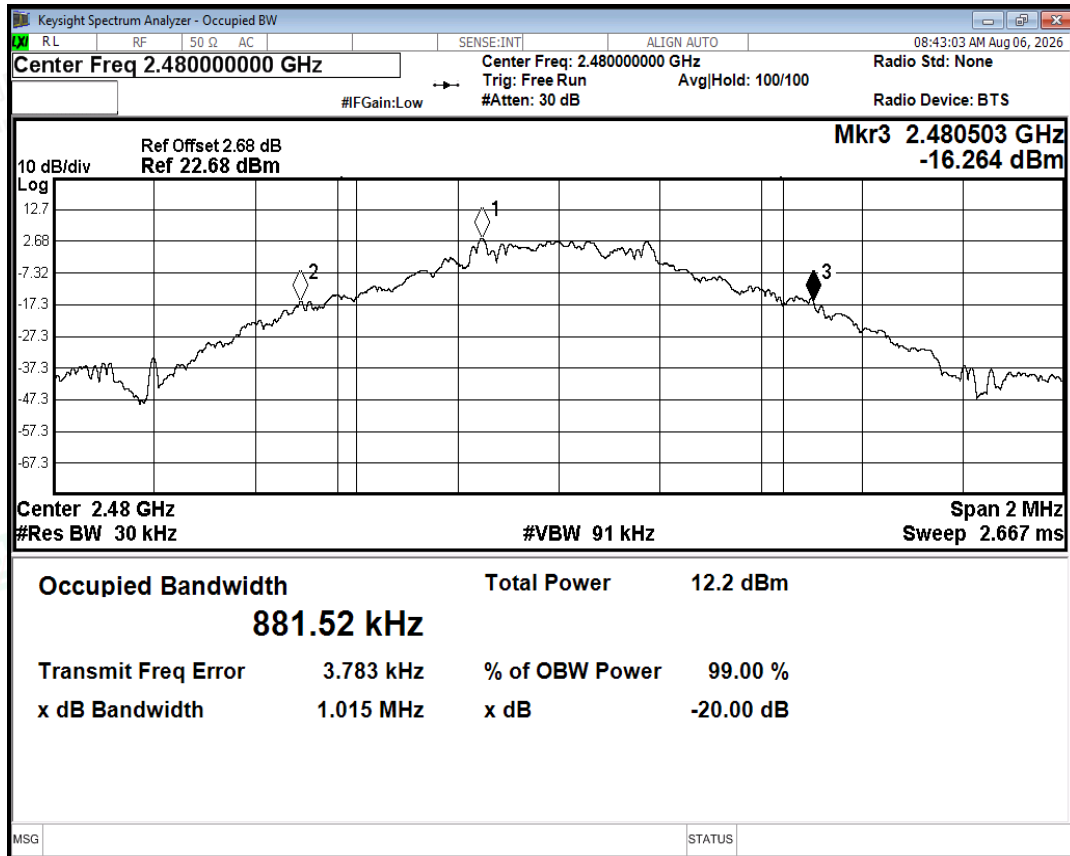
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.004	0	Pass
NVNT	1-DH5	2441	Ant1	1.012	0	Pass
NVNT	1-DH5	2480	Ant1	1.015	0	Pass
NVNT	2-DH5	2402	Ant1	1.311	0	Pass
NVNT	2-DH5	2441	Ant1	1.282	0	Pass
NVNT	2-DH5	2480	Ant1	1.279	0	Pass
NVNT	3-DH5	2402	Ant1	1.299	0	Pass
NVNT	3-DH5	2441	Ant1	1.296	0	Pass
NVNT	3-DH5	2480	Ant1	1.306	0	Pass



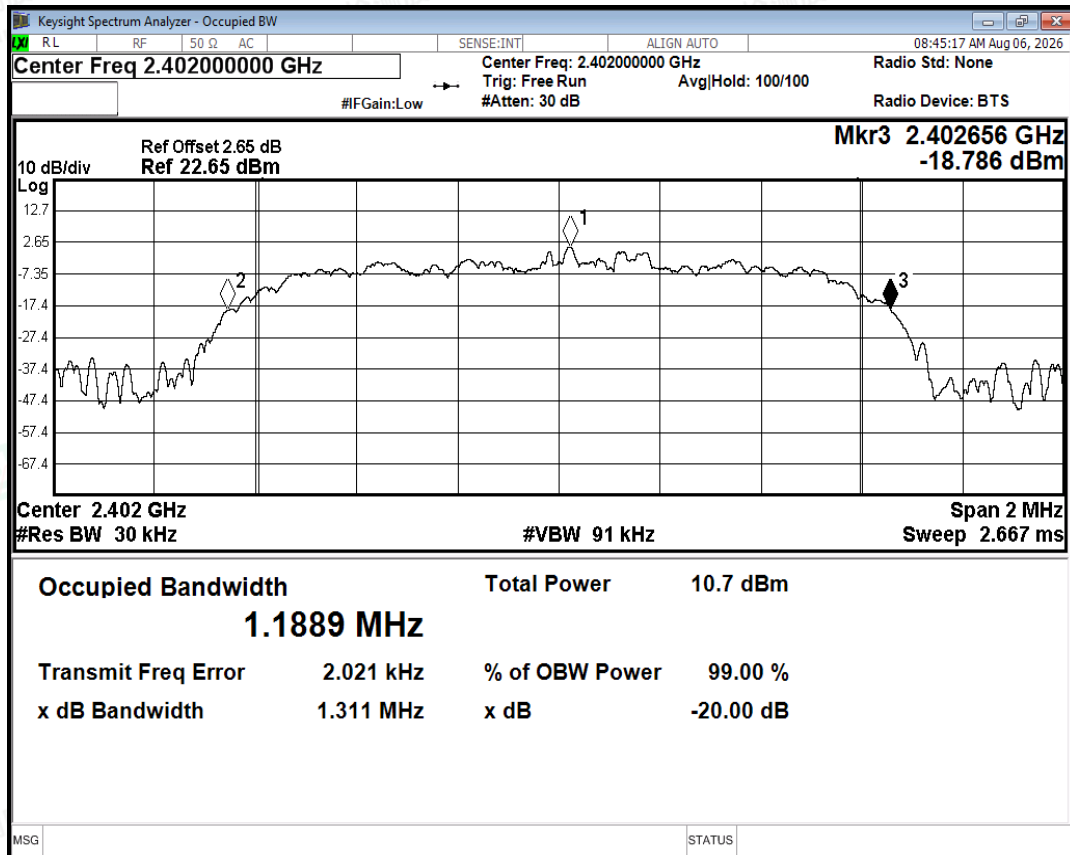
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



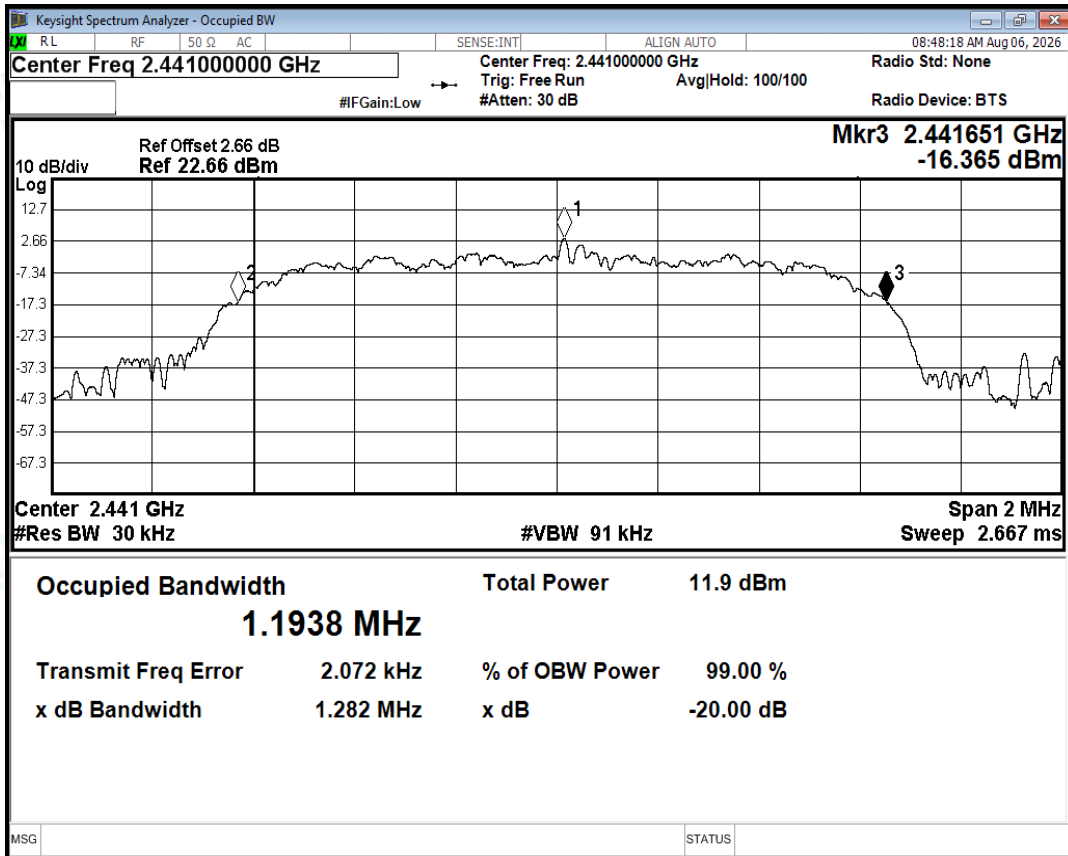
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



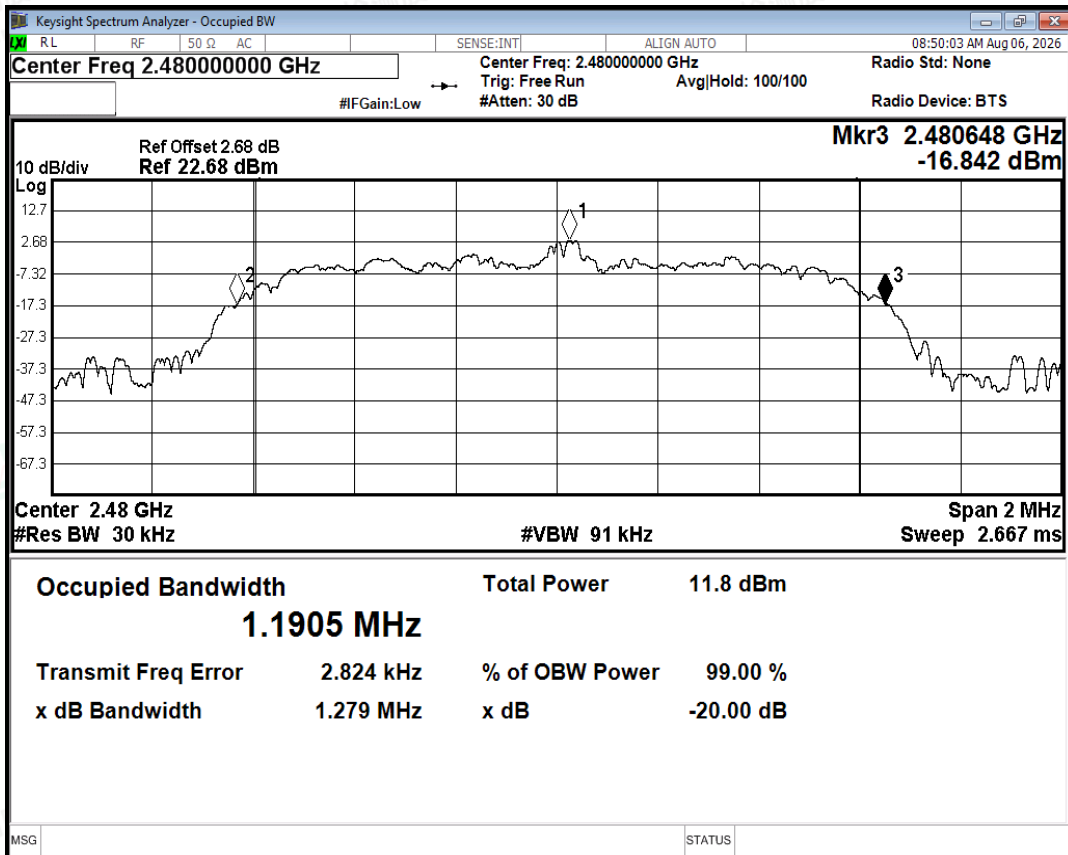
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



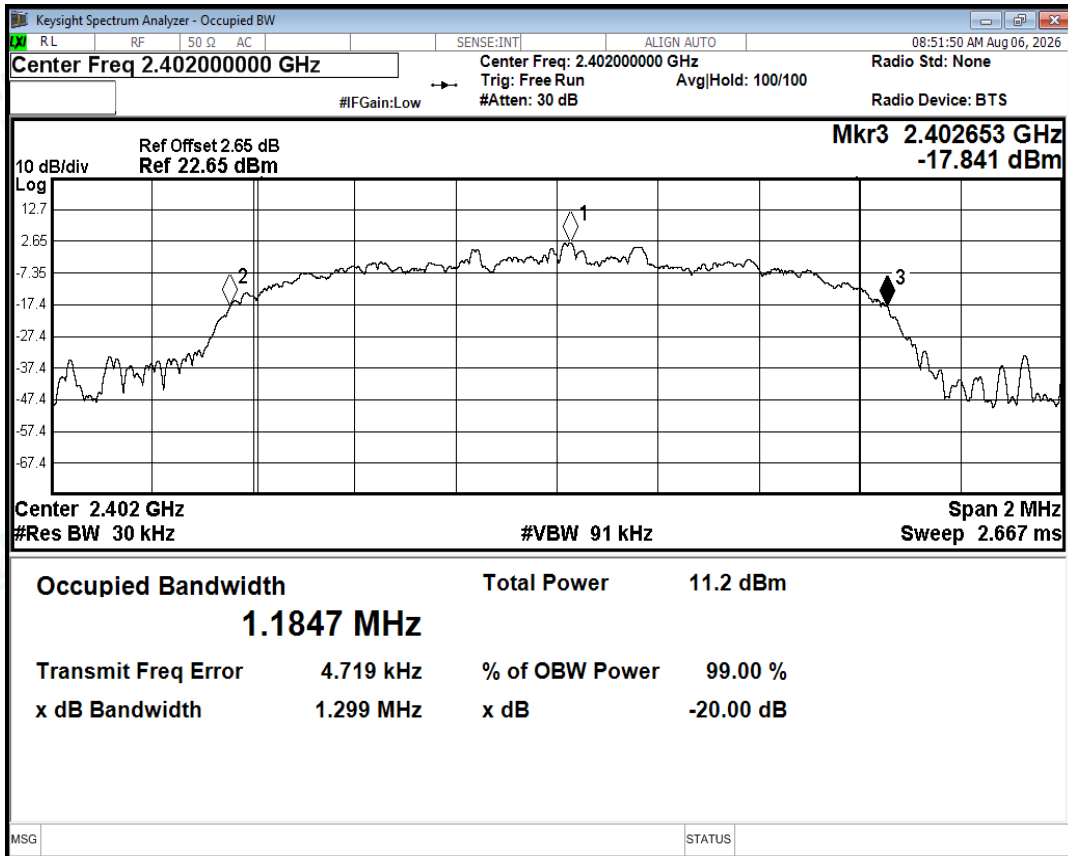
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



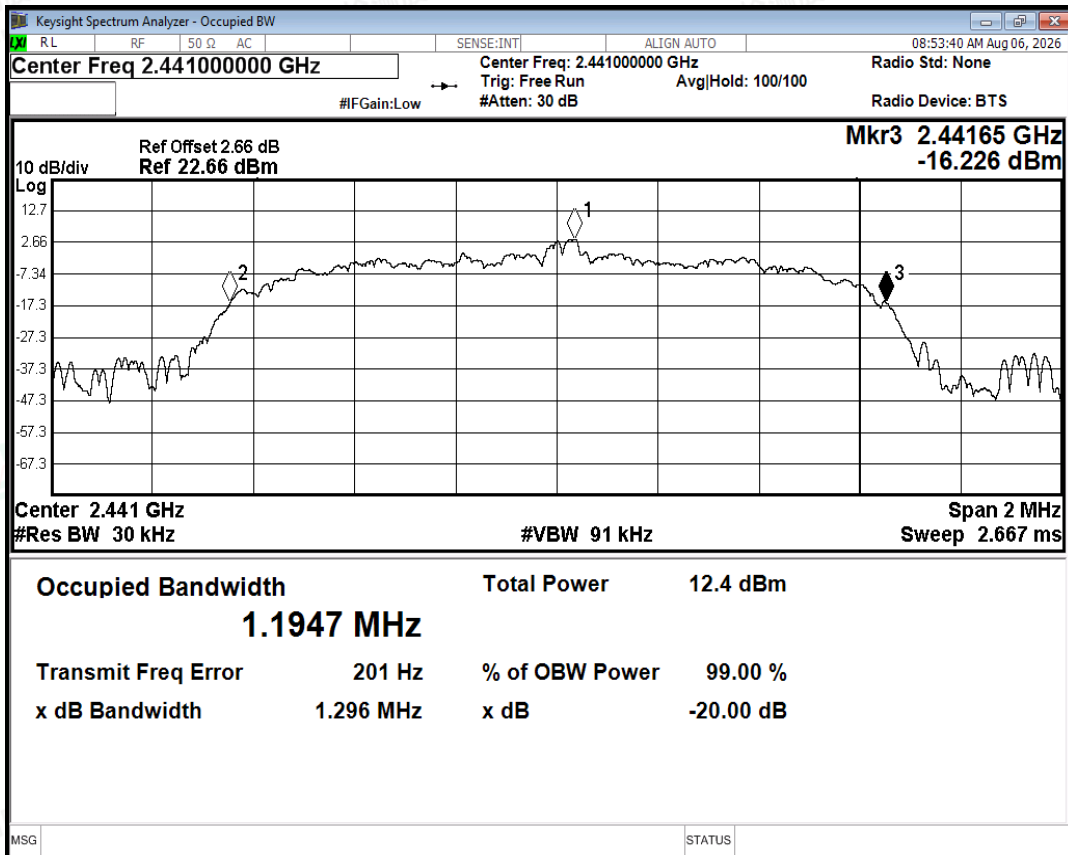
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



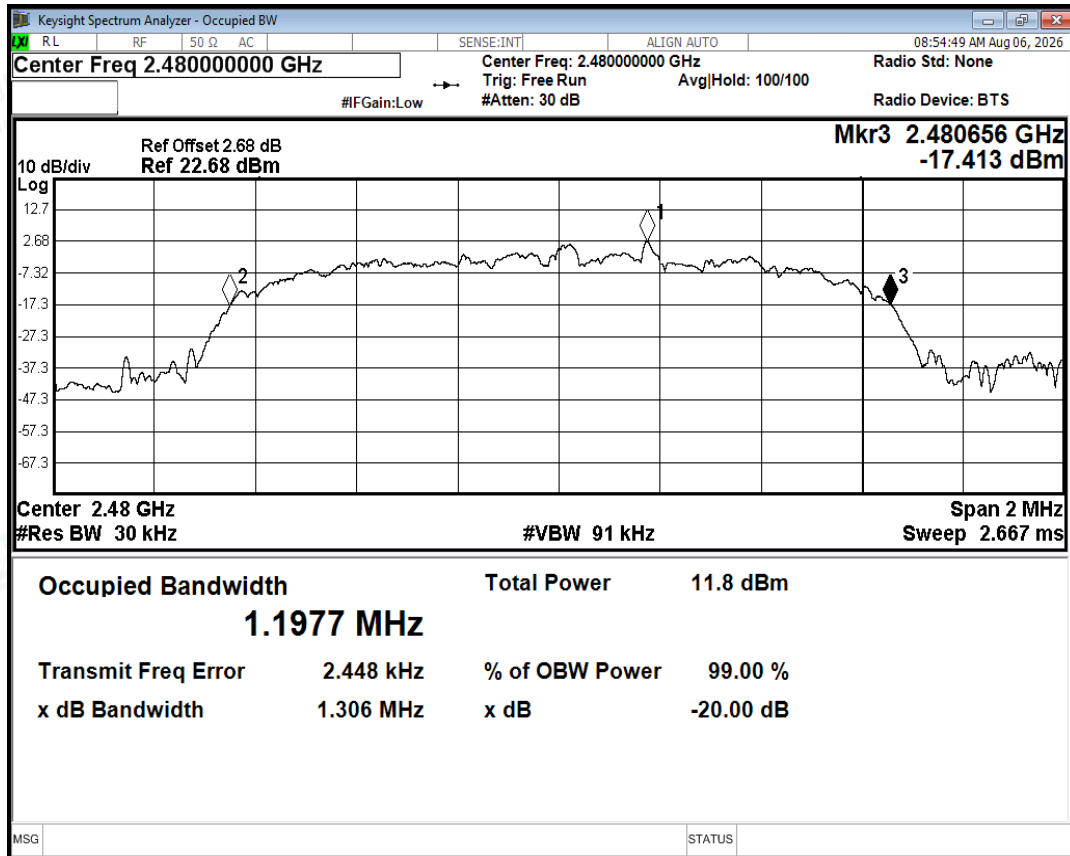
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

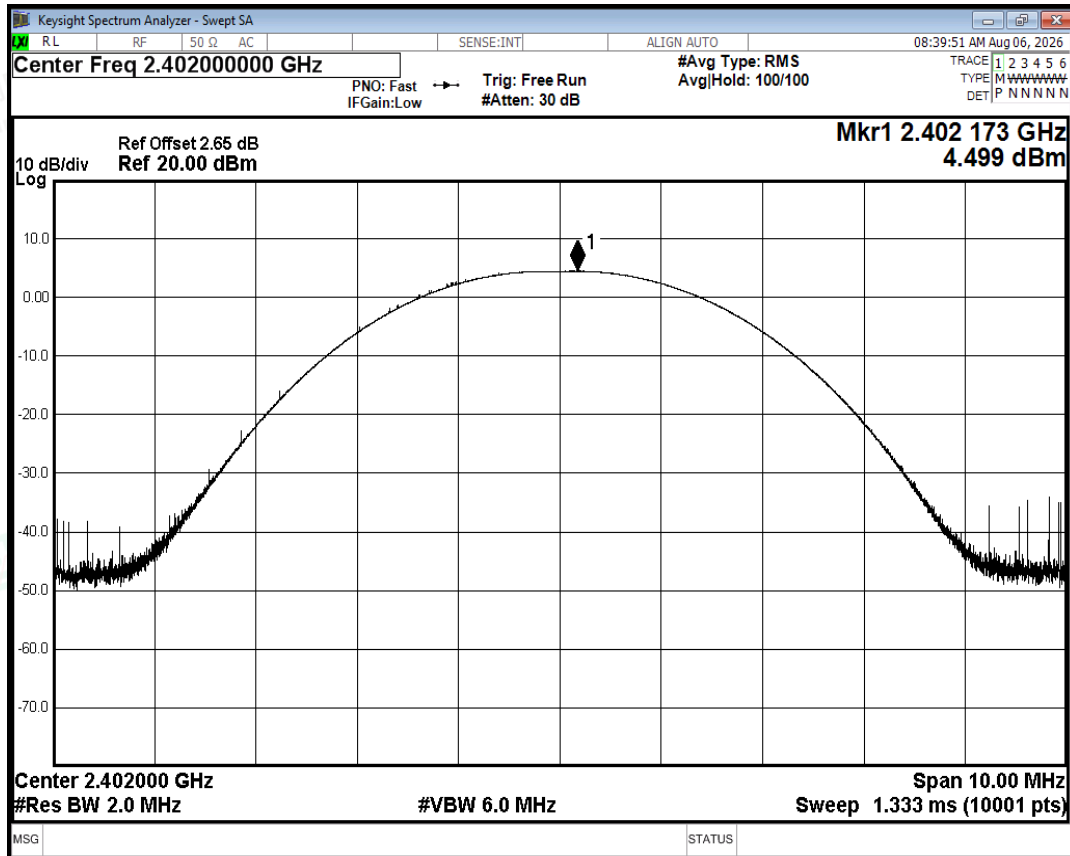


-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

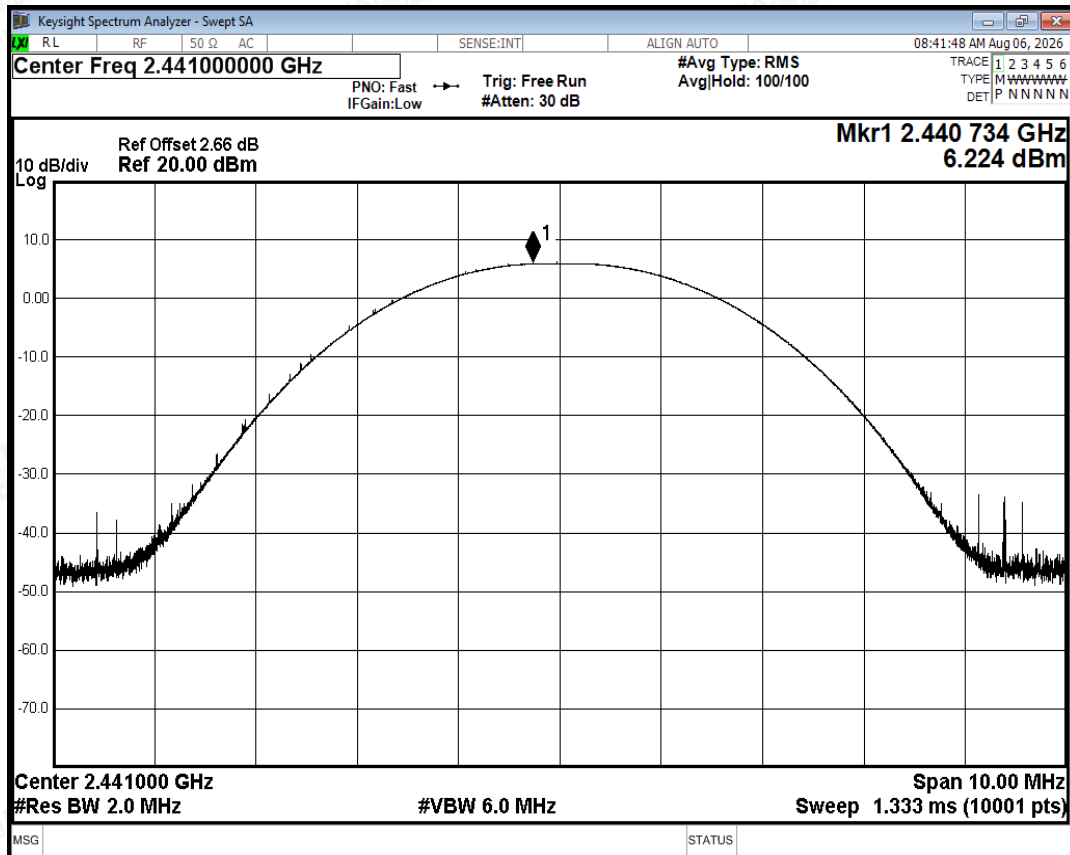


A.2 Maximum Peak Conducted Output Power

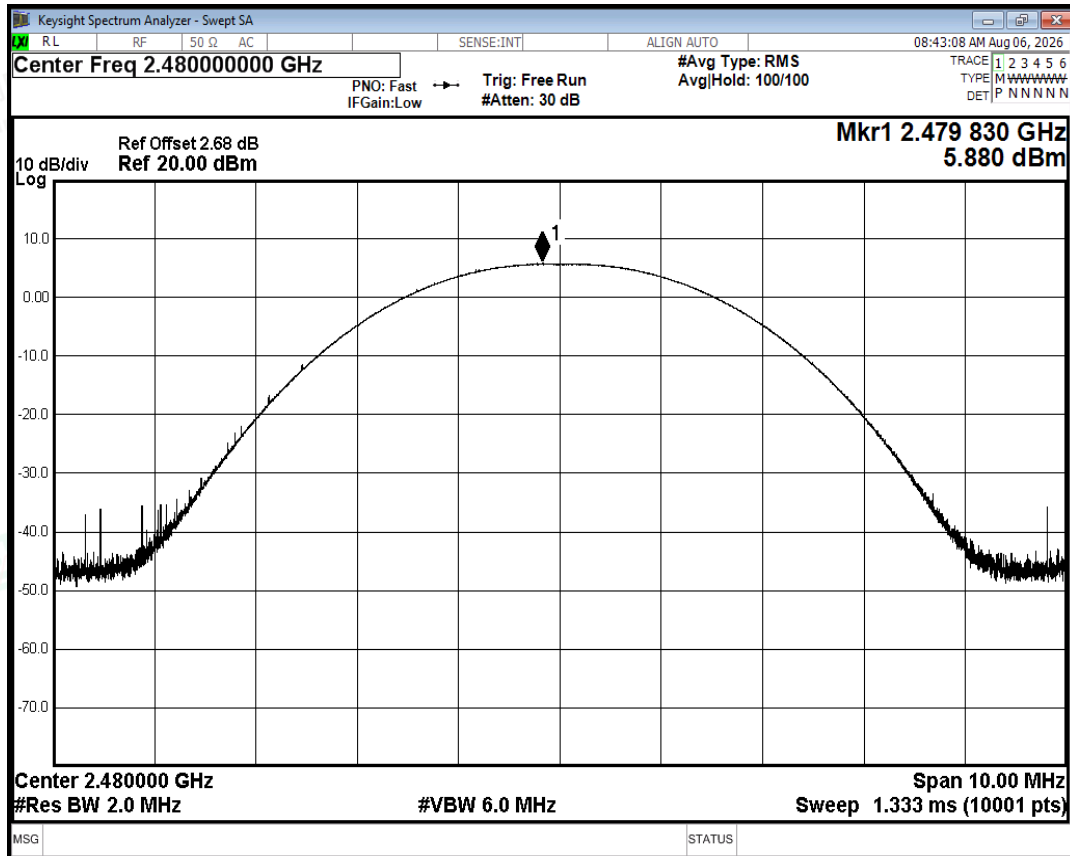
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	1-DH5	2402	Ant1	4.5	30	Pass
NVNT	1-DH5	2441	Ant1	6.22	30	Pass
NVNT	1-DH5	2480	Ant1	5.88	30	Pass
NVNT	2-DH5	2402	Ant1	6.29	30	Pass
NVNT	2-DH5	2441	Ant1	7.67	30	Pass
NVNT	2-DH5	2480	Ant1	7.17	30	Pass
NVNT	3-DH5	2402	Ant1	6.53	30	Pass
NVNT	3-DH5	2441	Ant1	7.89	30	Pass
NVNT	3-DH5	2480	Ant1	7.33	30	Pass



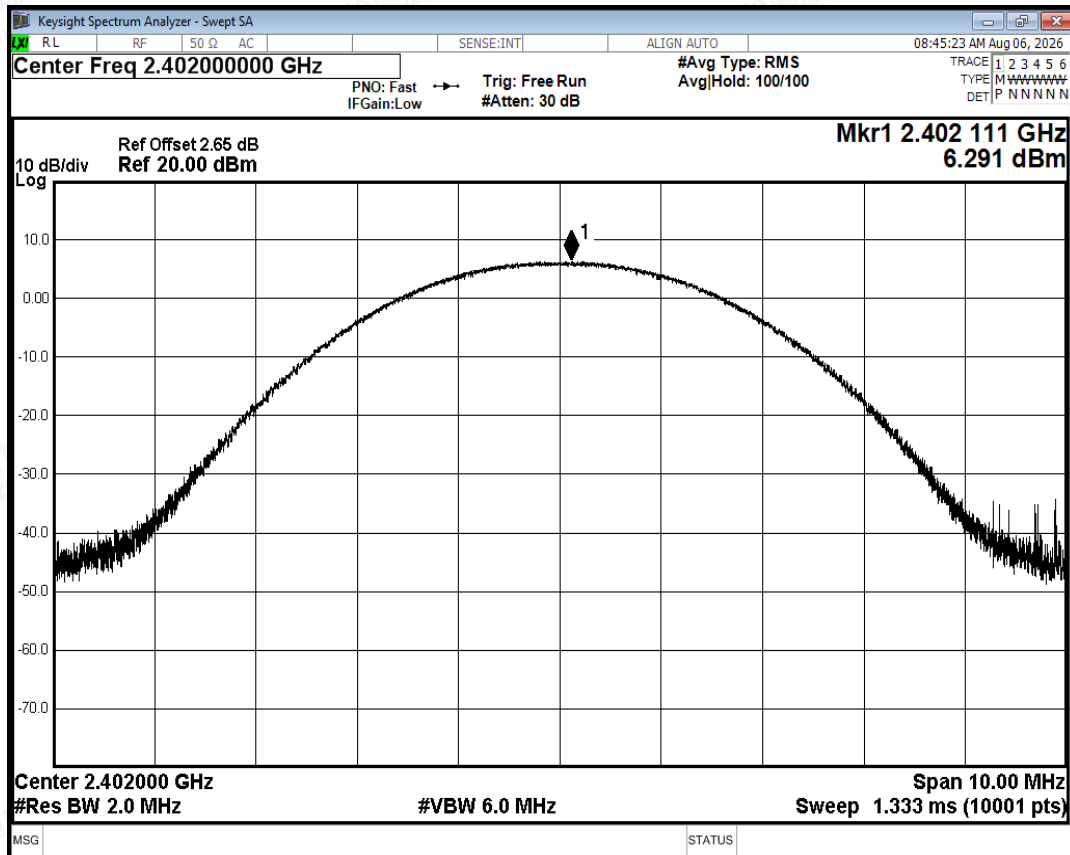
Peak Power NVNT 1-DH5 2402MHz Ant1



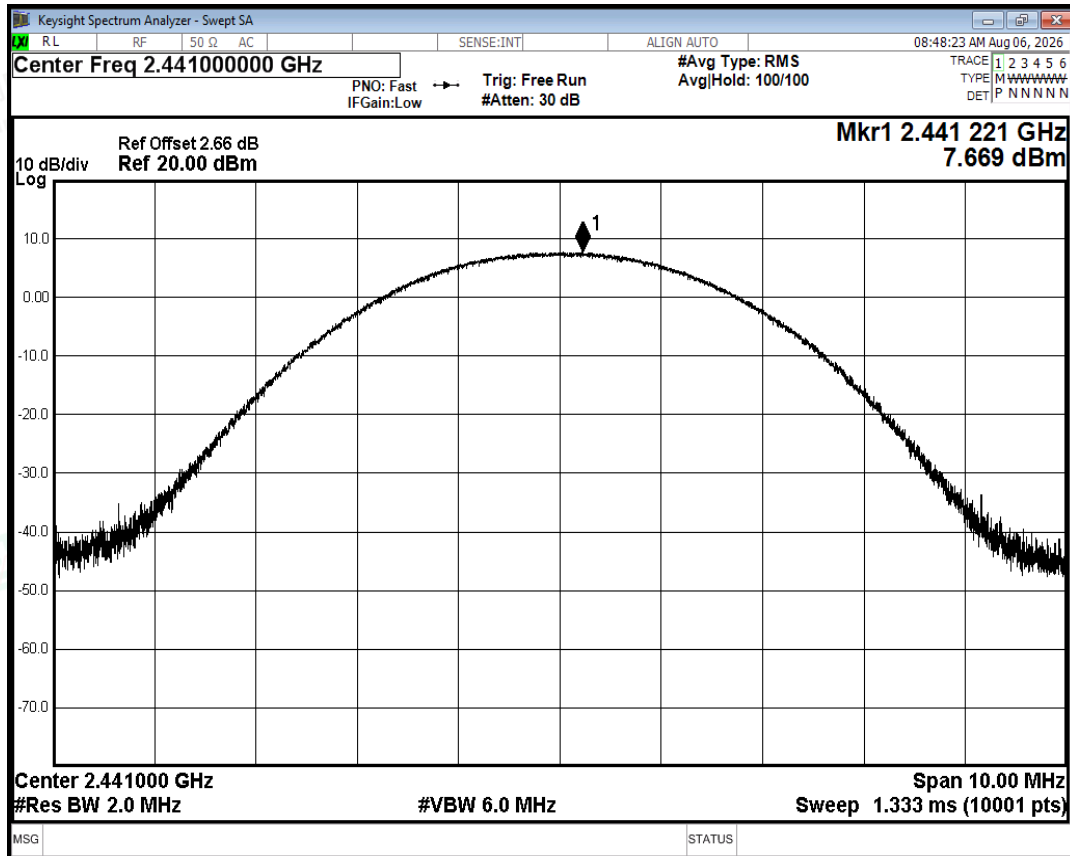
Peak Power NVNT 1-DH5 2441MHz Ant1



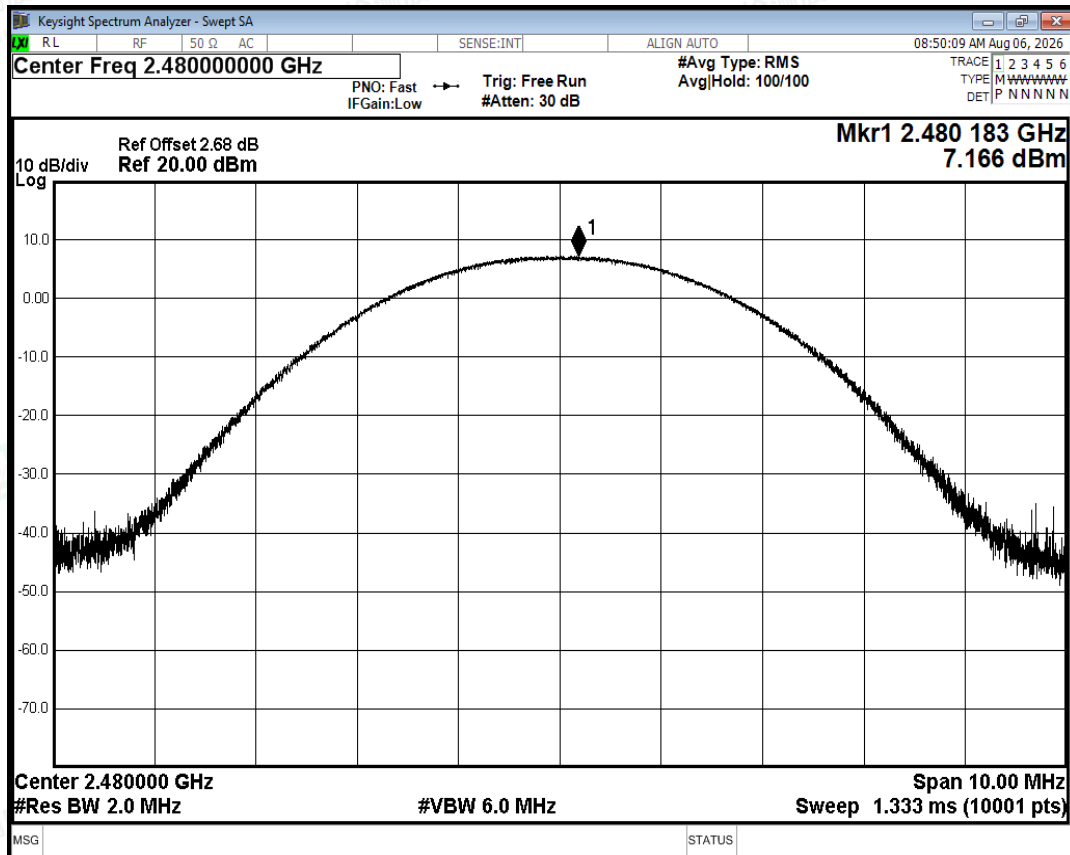
Peak Power NVNT 1-DH5 2480MHz Ant1



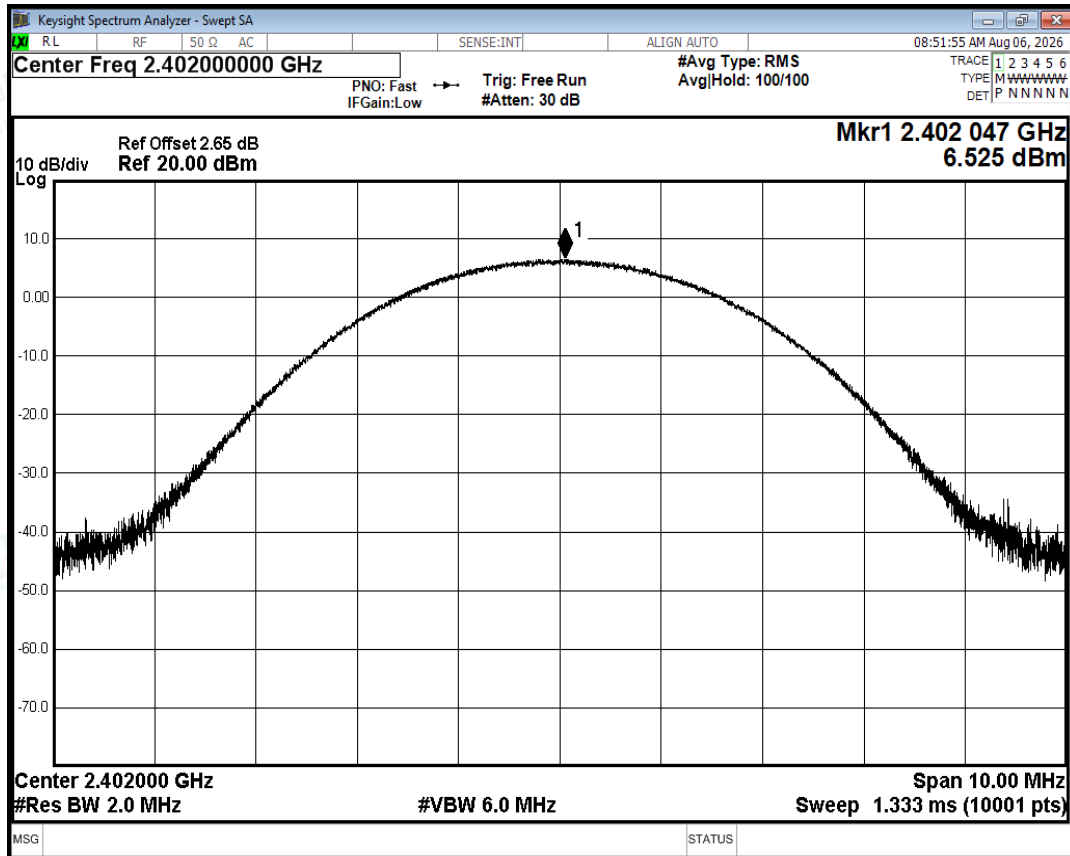
Peak Power NVNT 2-DH5 2402MHz Ant1



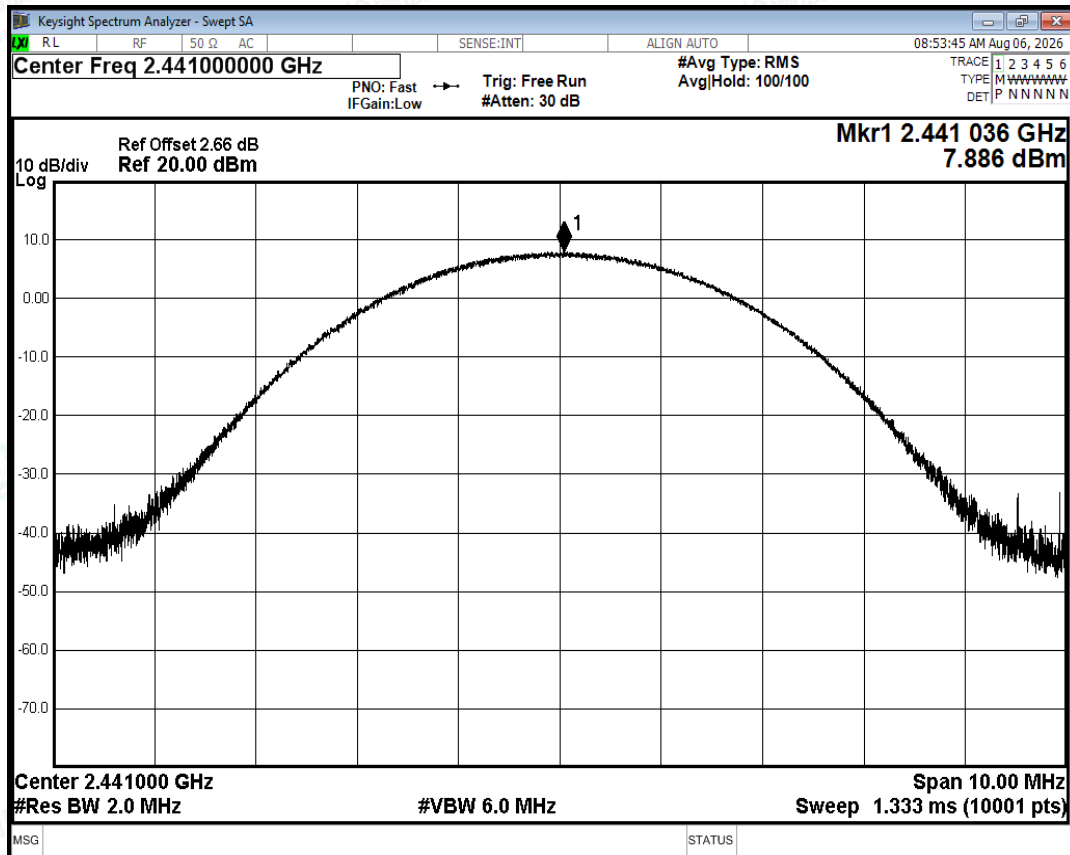
Peak Power NVNT 2-DH5 2441MHz Ant1



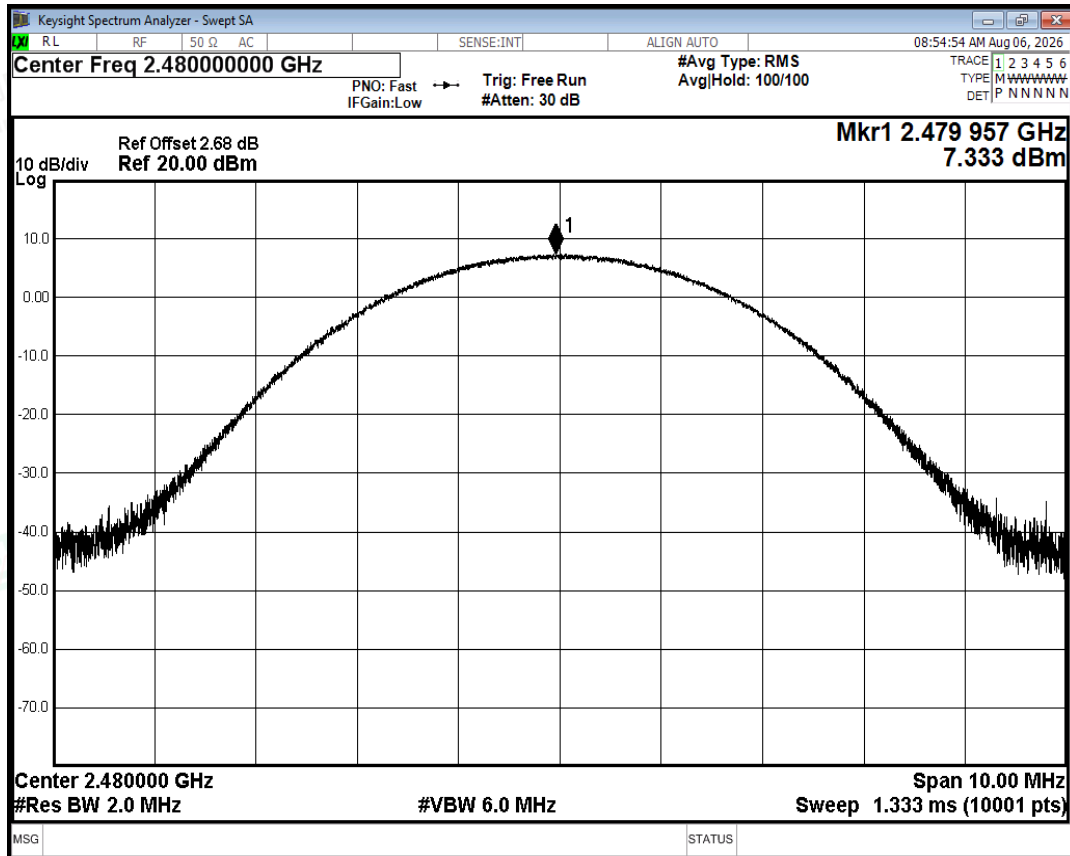
Peak Power NVNT 2-DH5 2480MHz Ant1



Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



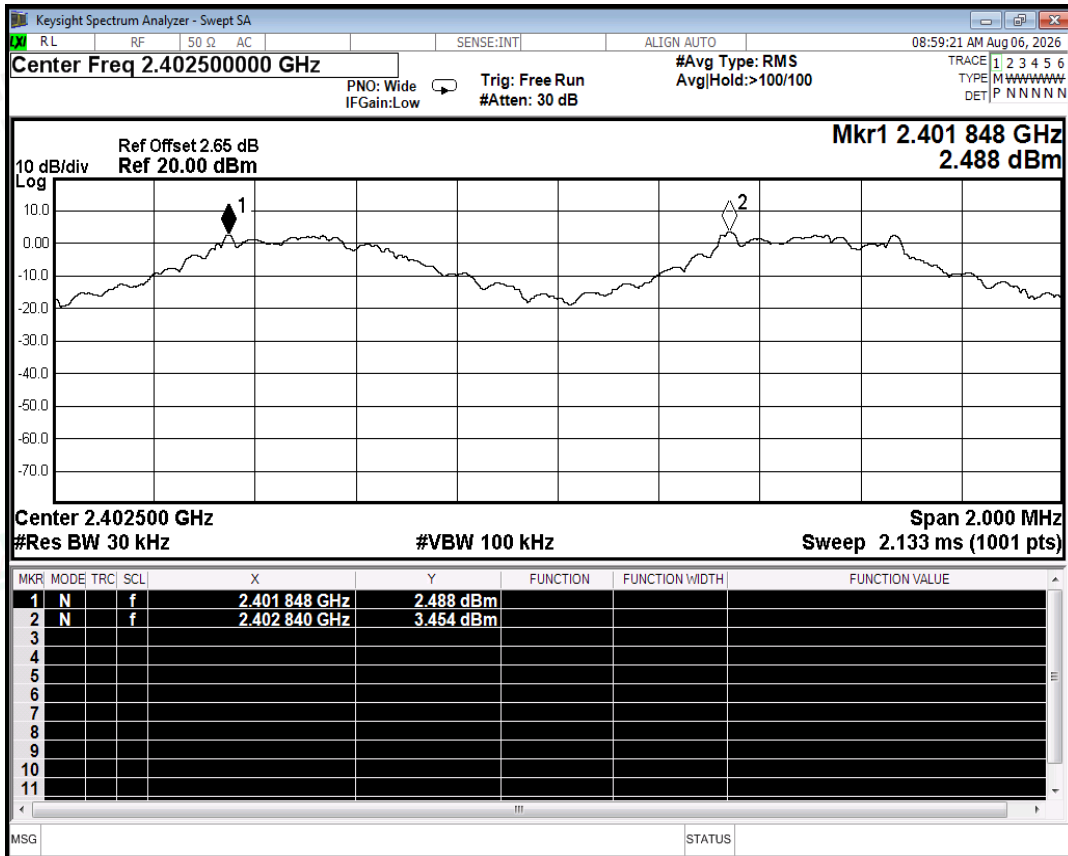
Peak Power NVNT 3-DH5 2480MHz Ant1



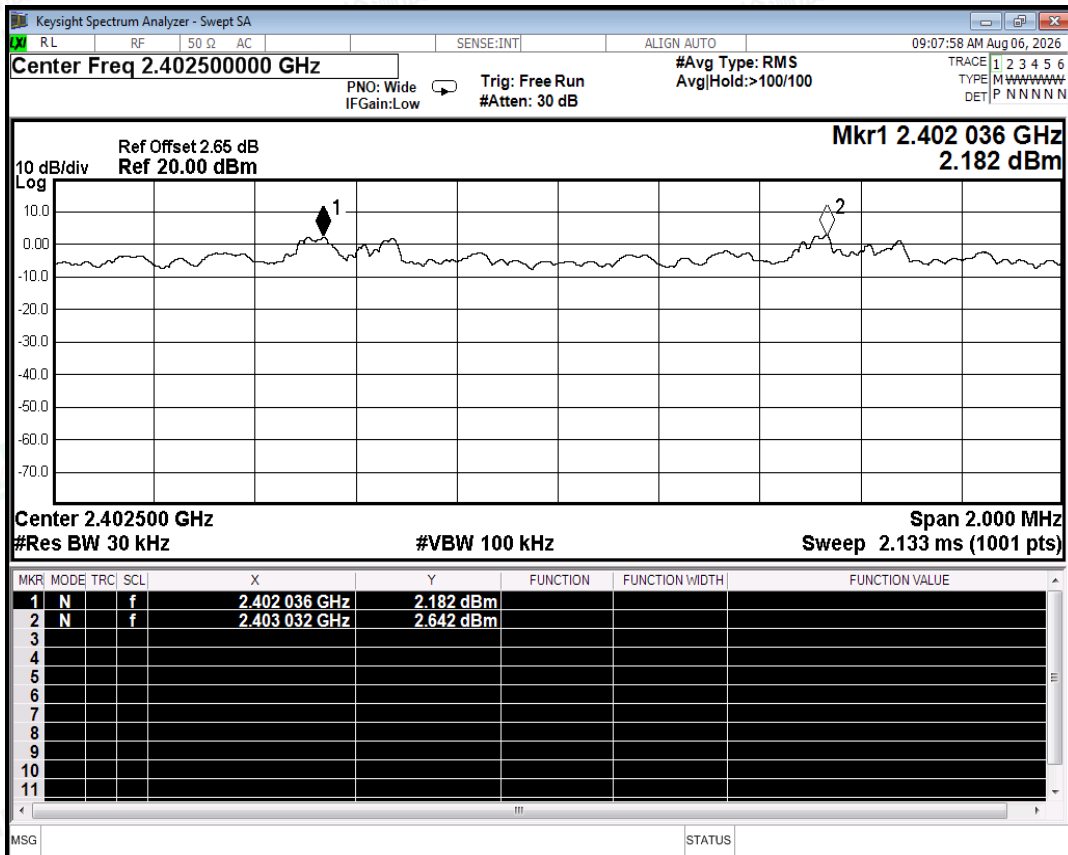
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.848	2402.84	0.992	0.677	Pass
NVNT	2-DH5	Ant1	2402.036	2403.032	0.996	0.874	Pass
NVNT	3-DH5	Ant1	2402.012	2403.006	0.994	0.871	Pass

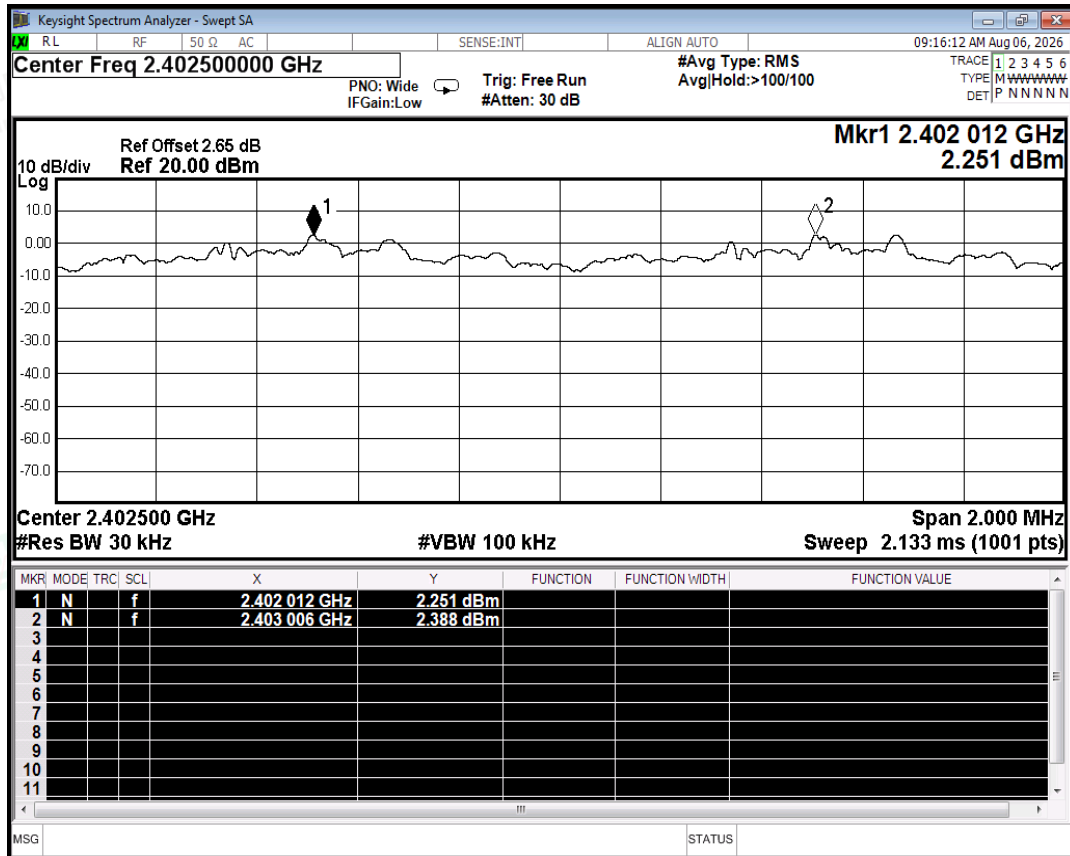




CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



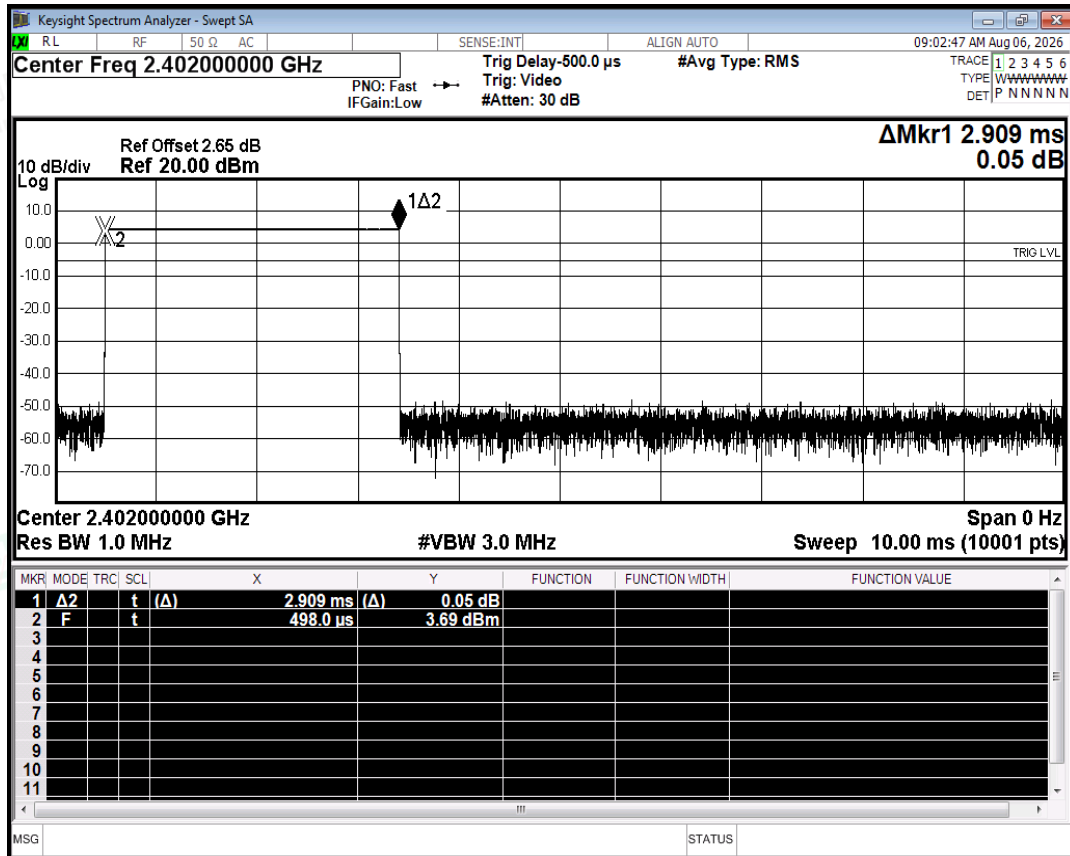
CFS NVNT 3-DH5 2402MHz Ant1



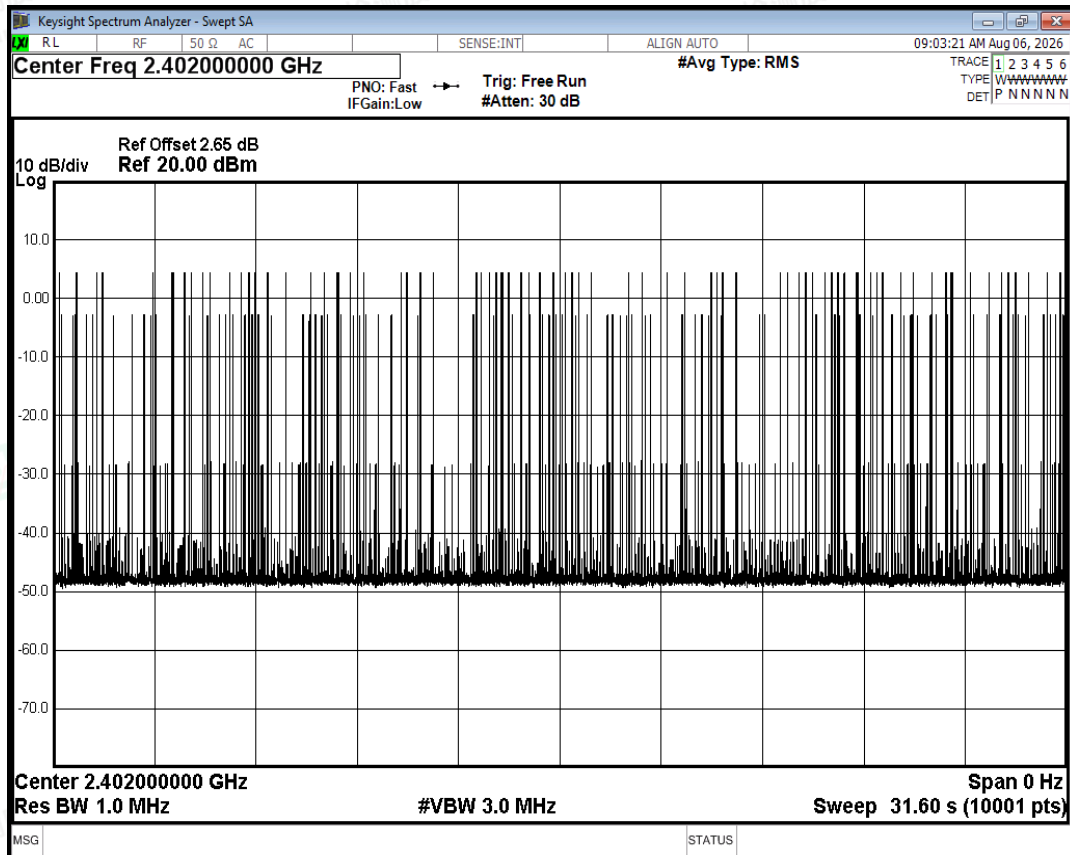
A.4 Dwell Time

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	270.537	93	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.896	306.976	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	269.421	93	31600	400	Pass

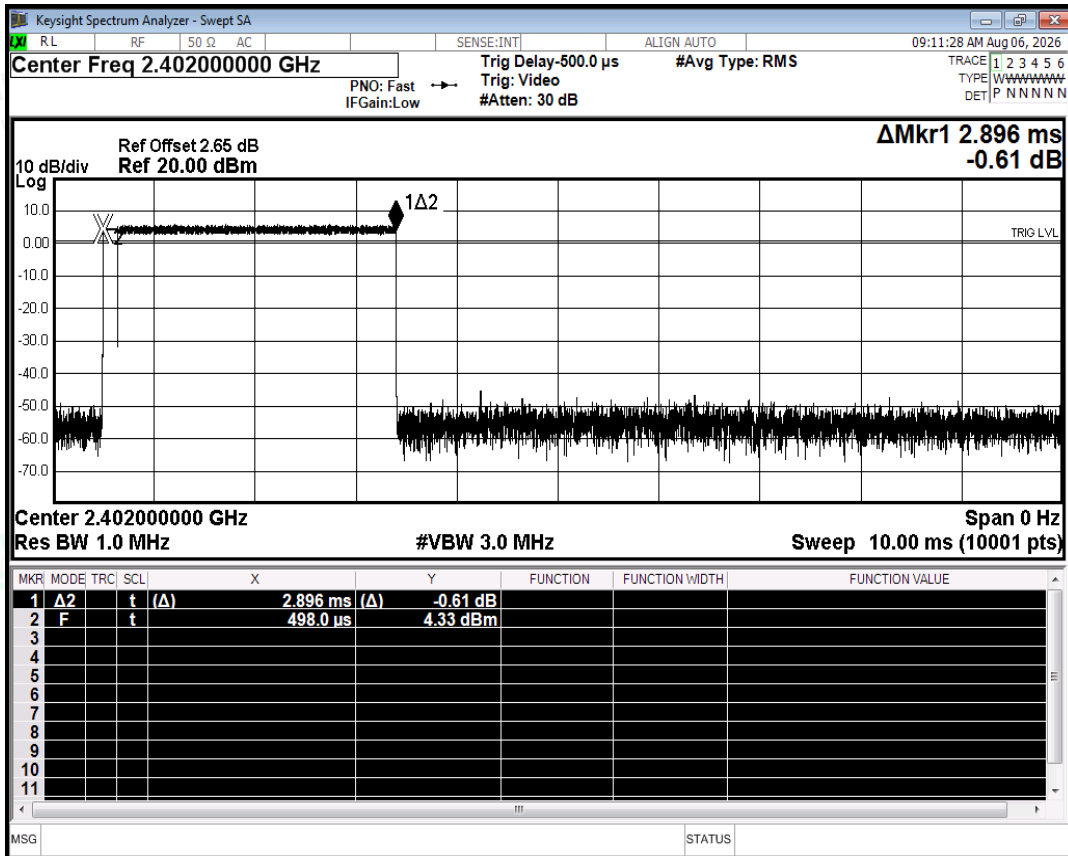




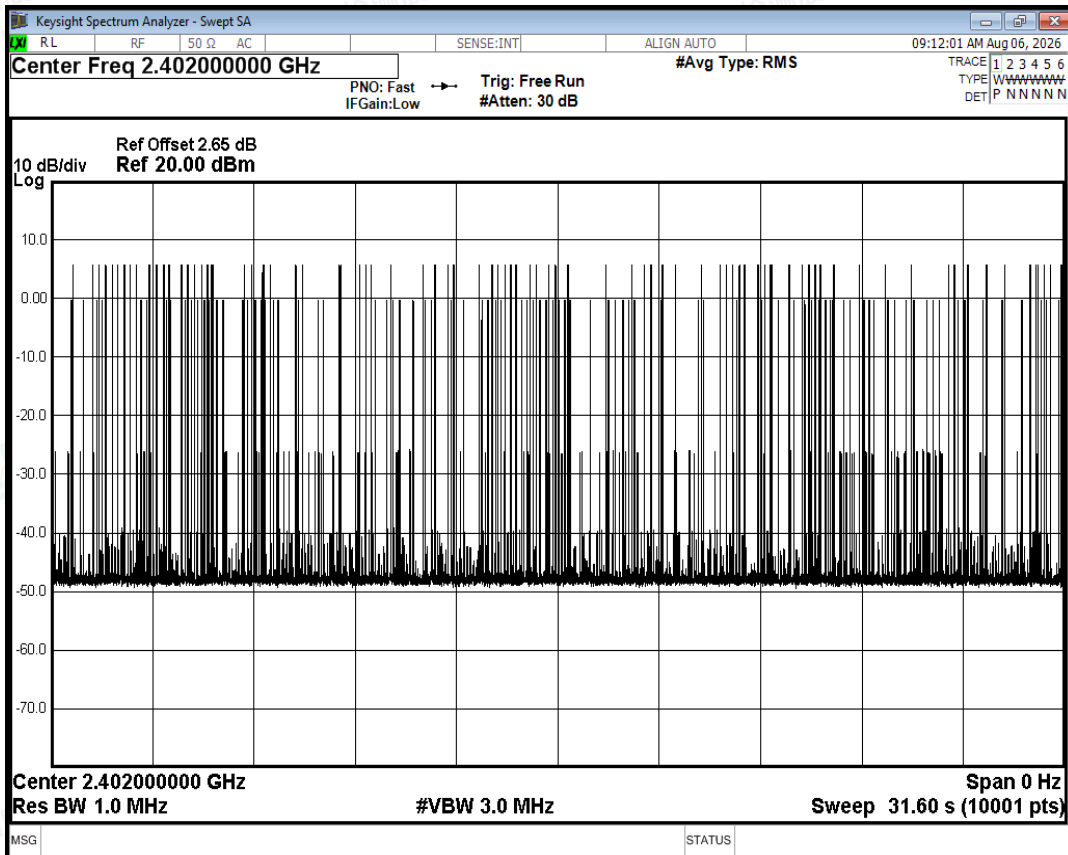
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



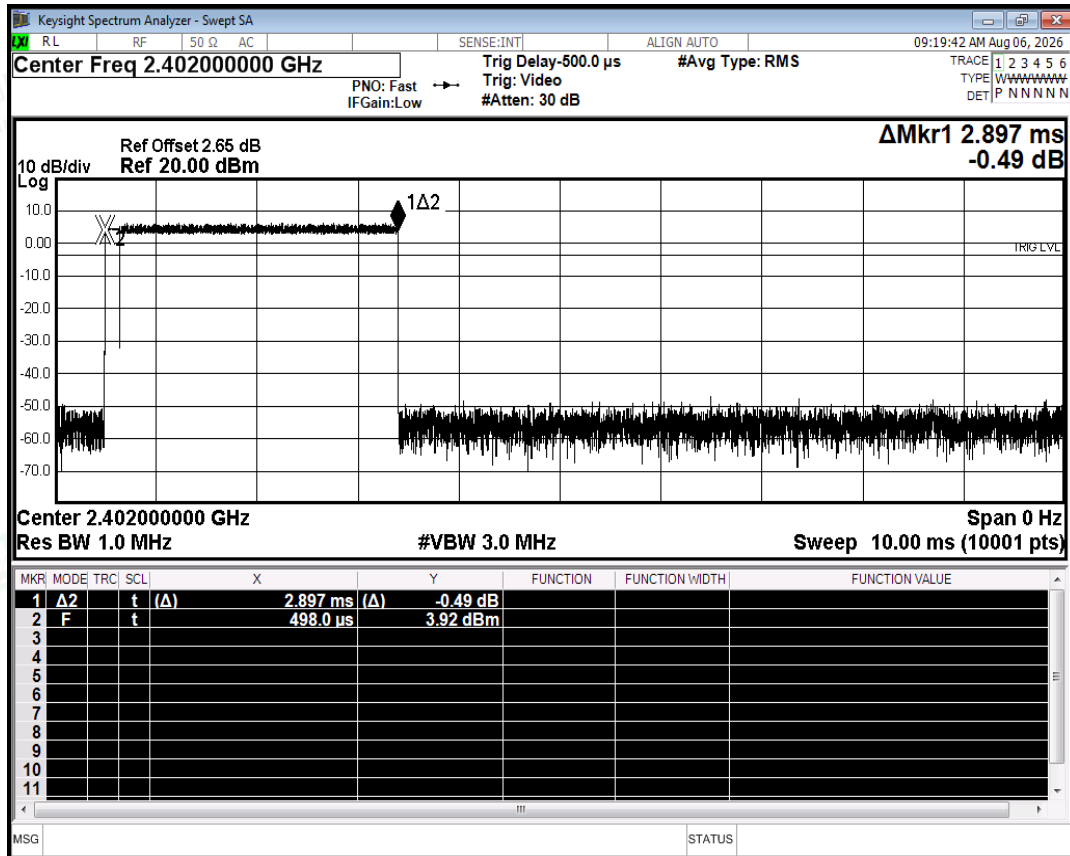
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



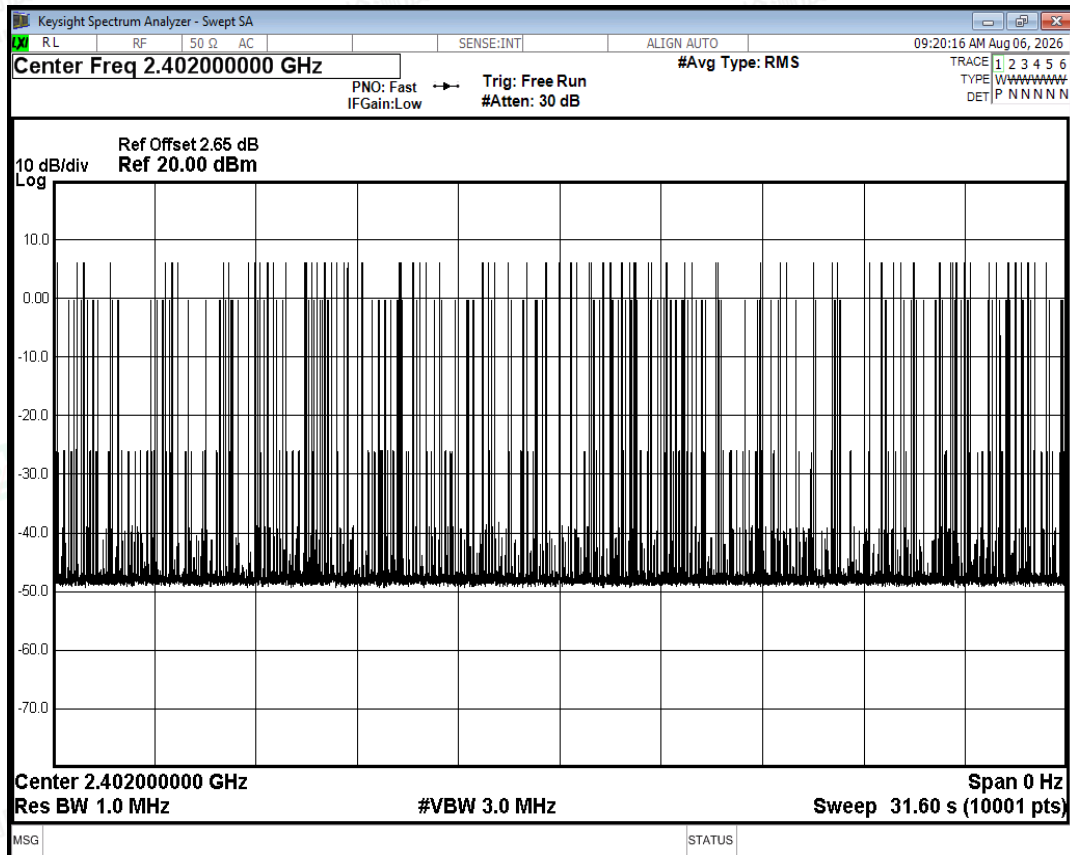
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



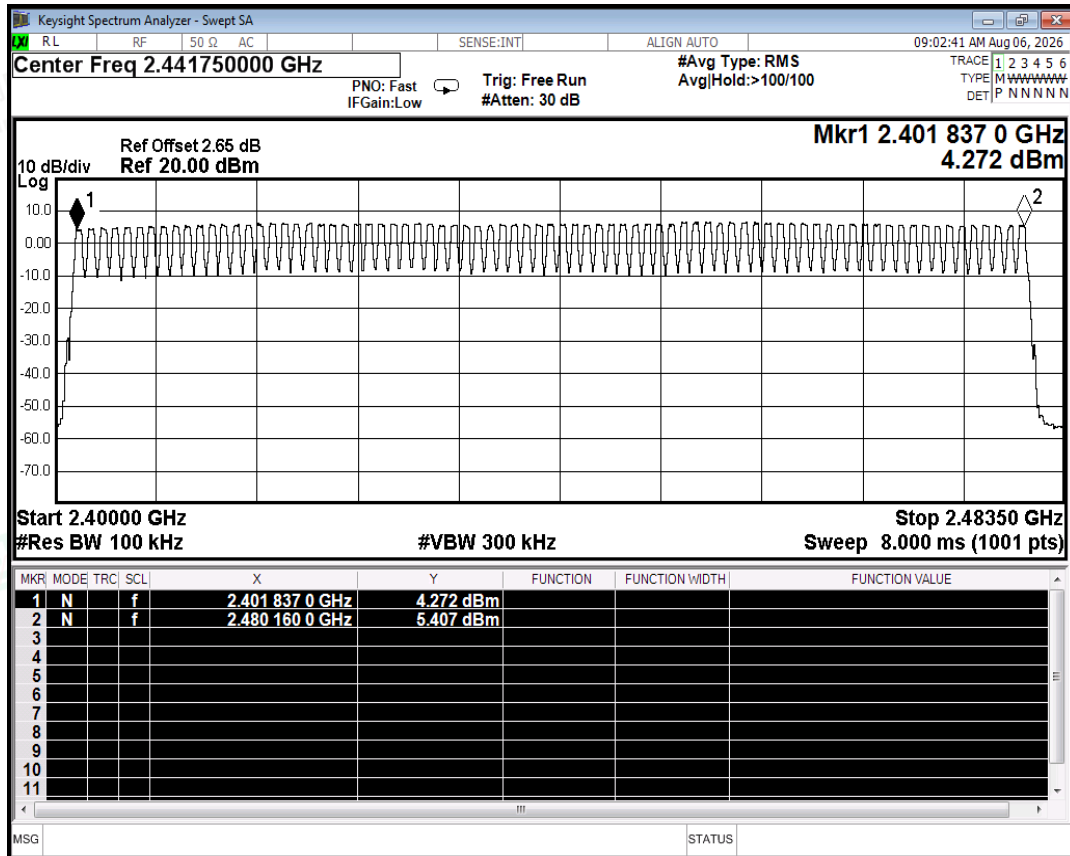
Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



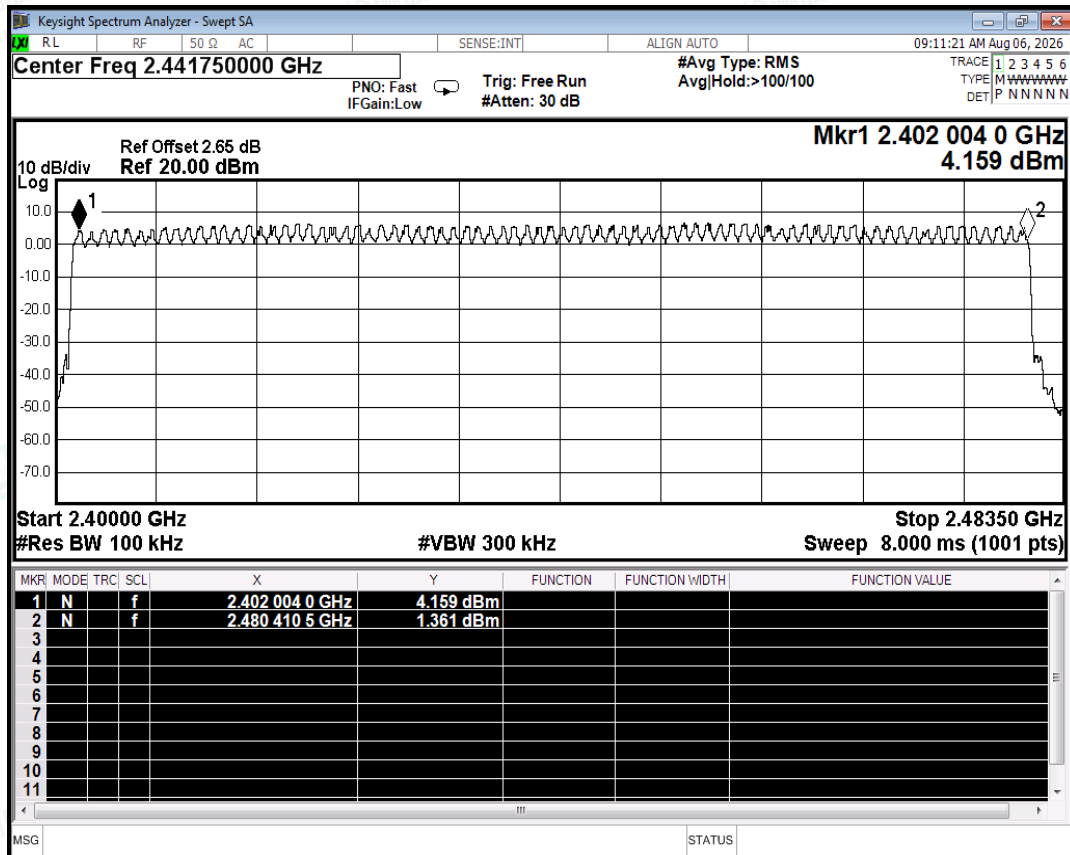
A.5 Number of Hopping Channel

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

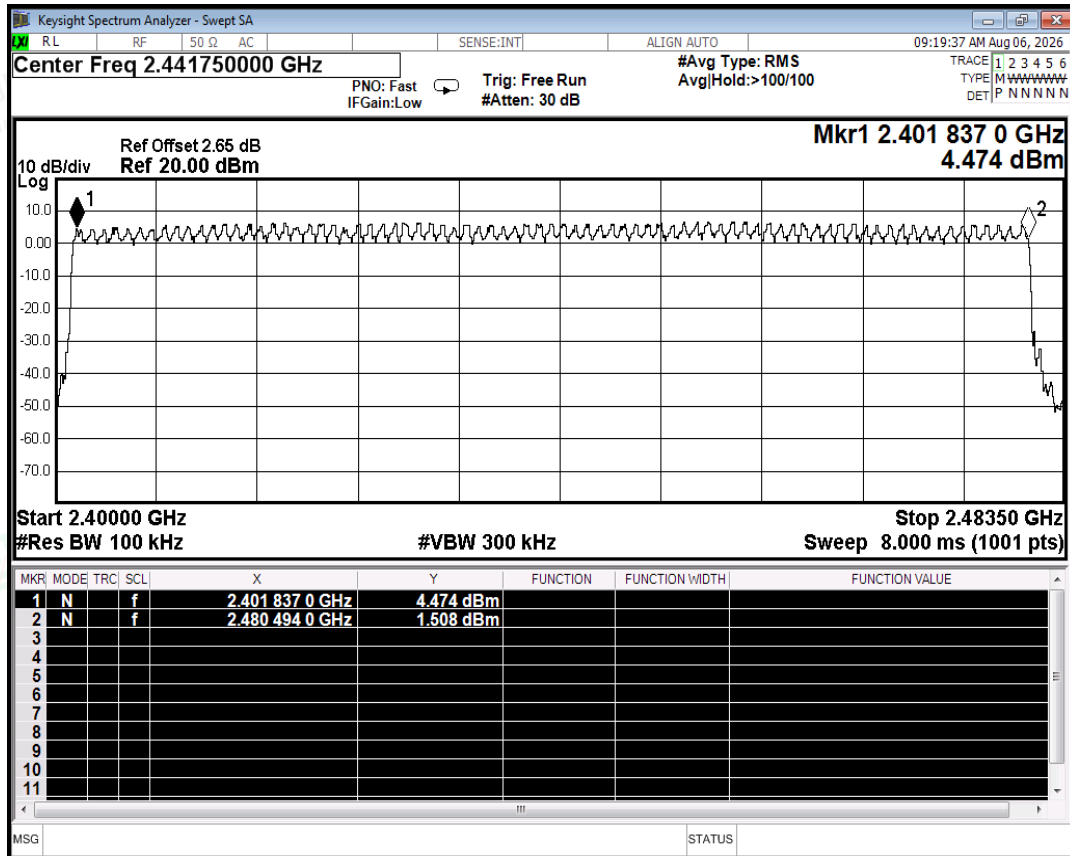




Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

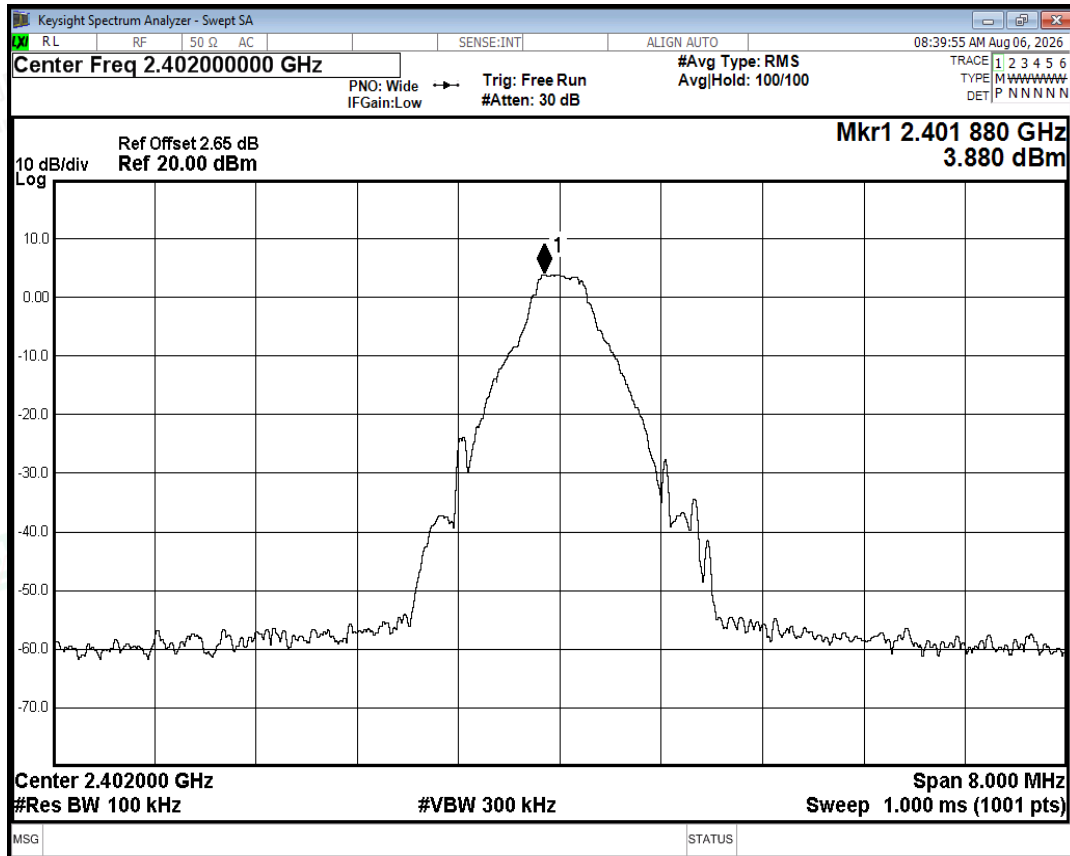


Hopping No. NVNT 3-DH5 2402MHz Ant1

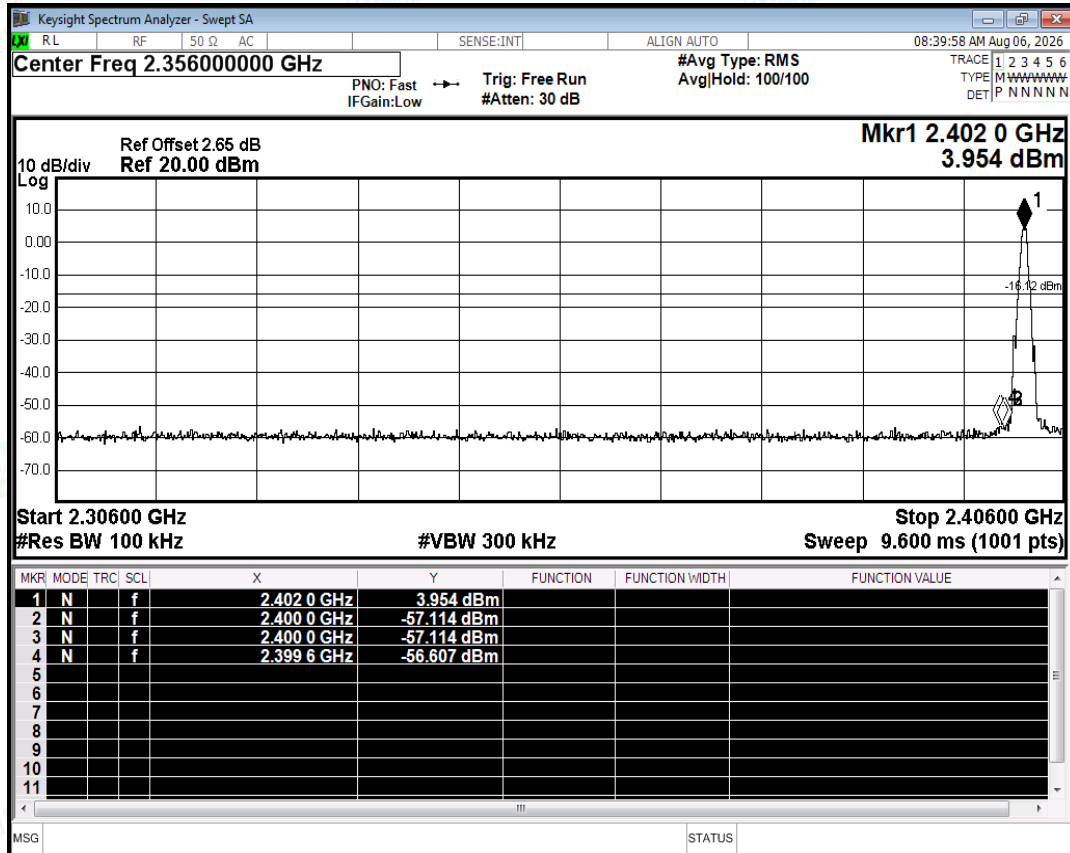


A.6 Band Edge

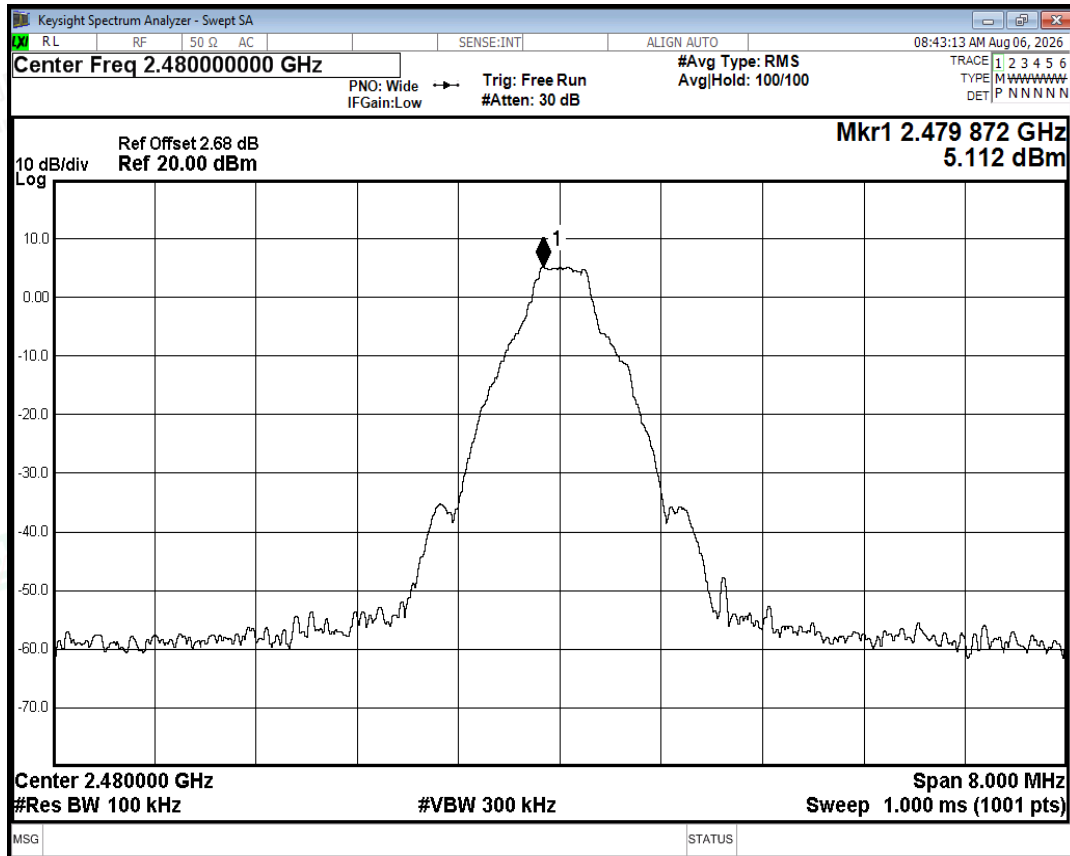
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-60.48	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-60.9	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.66	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.7	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.17	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-52.1	-20	Pass



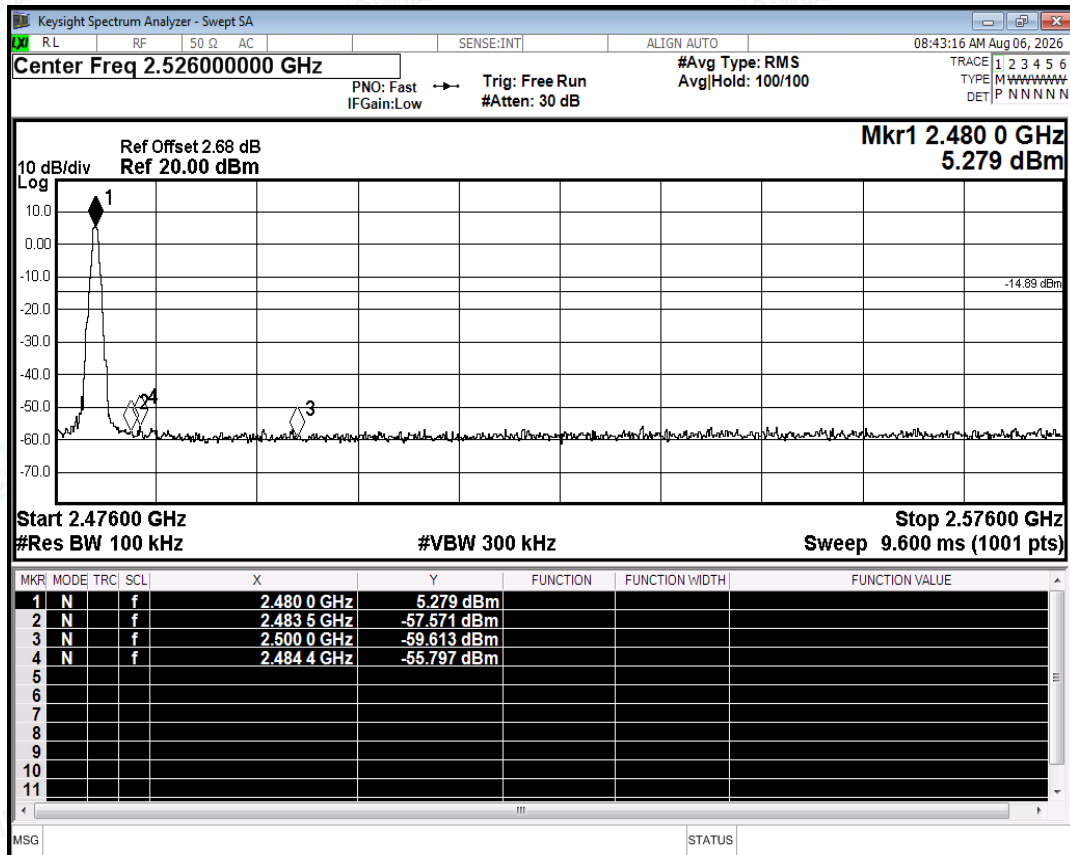
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



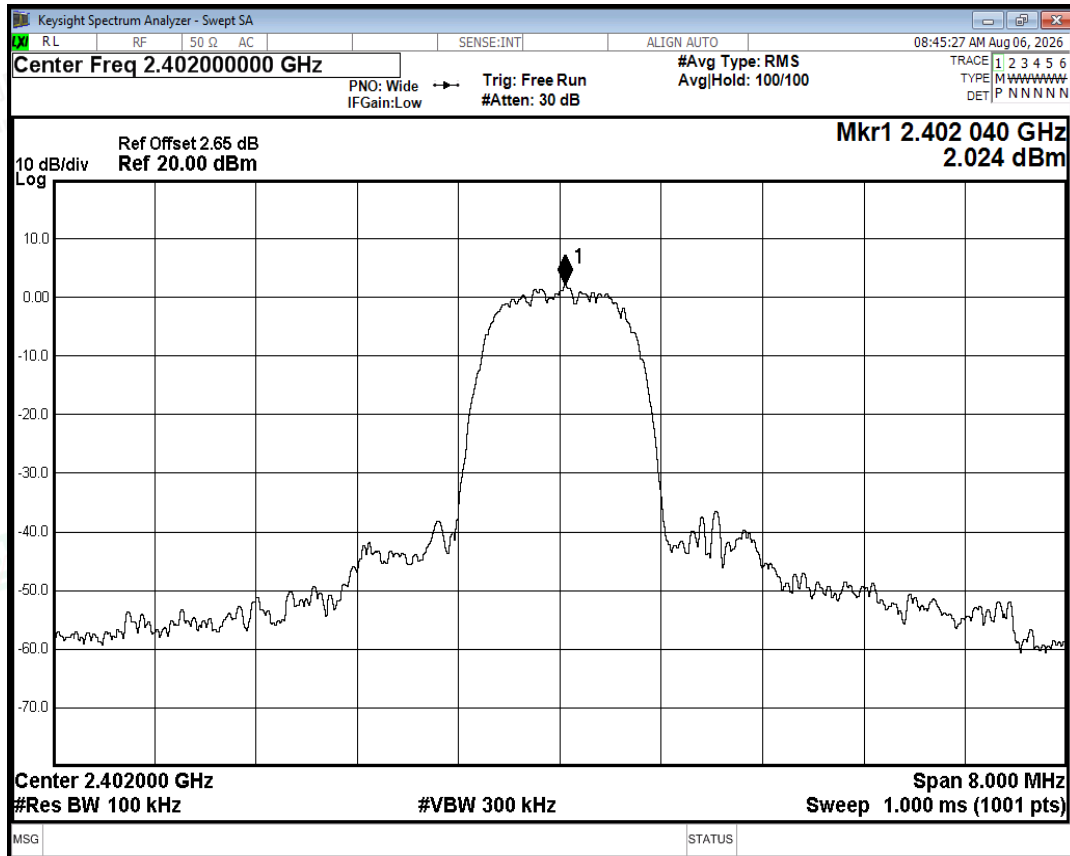
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



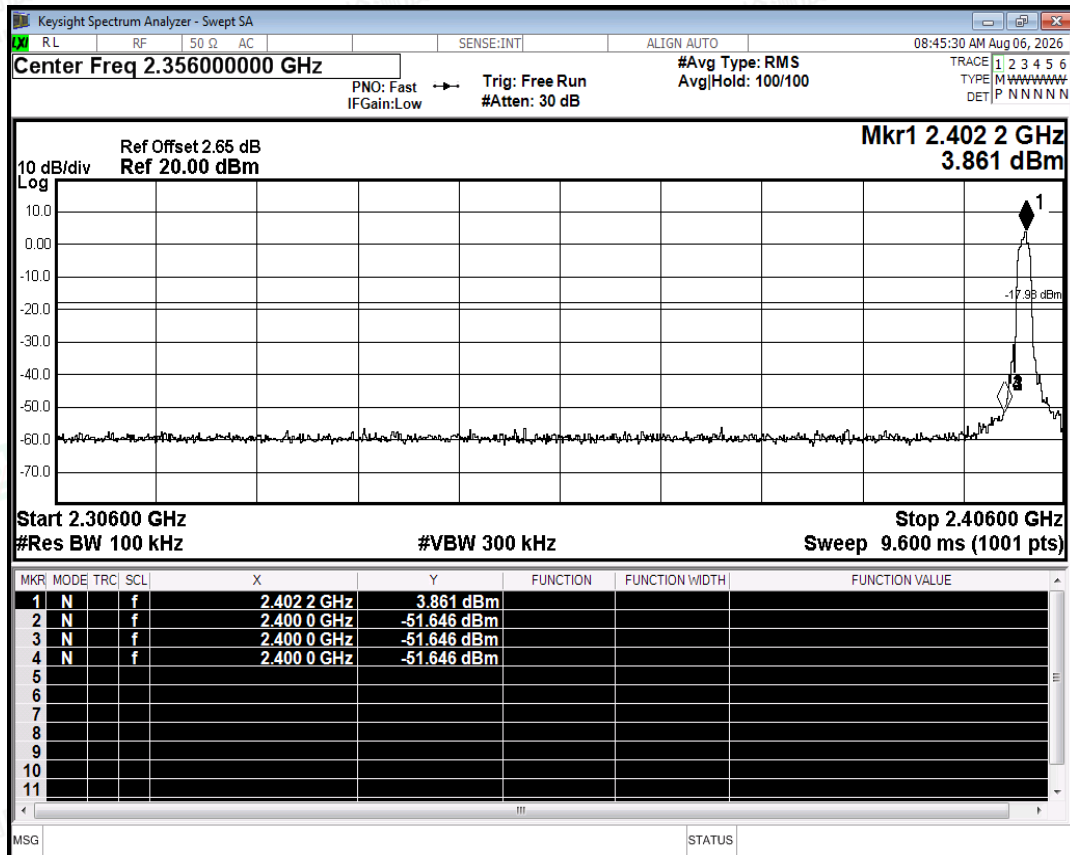
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



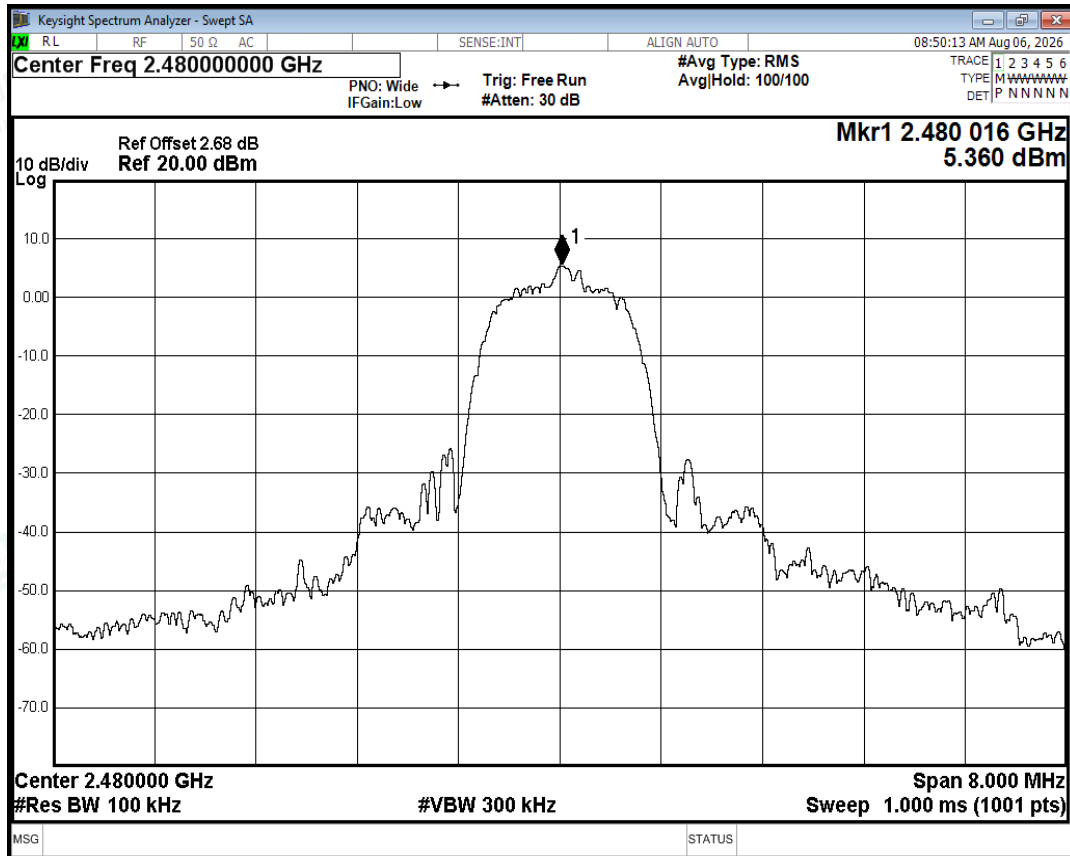
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



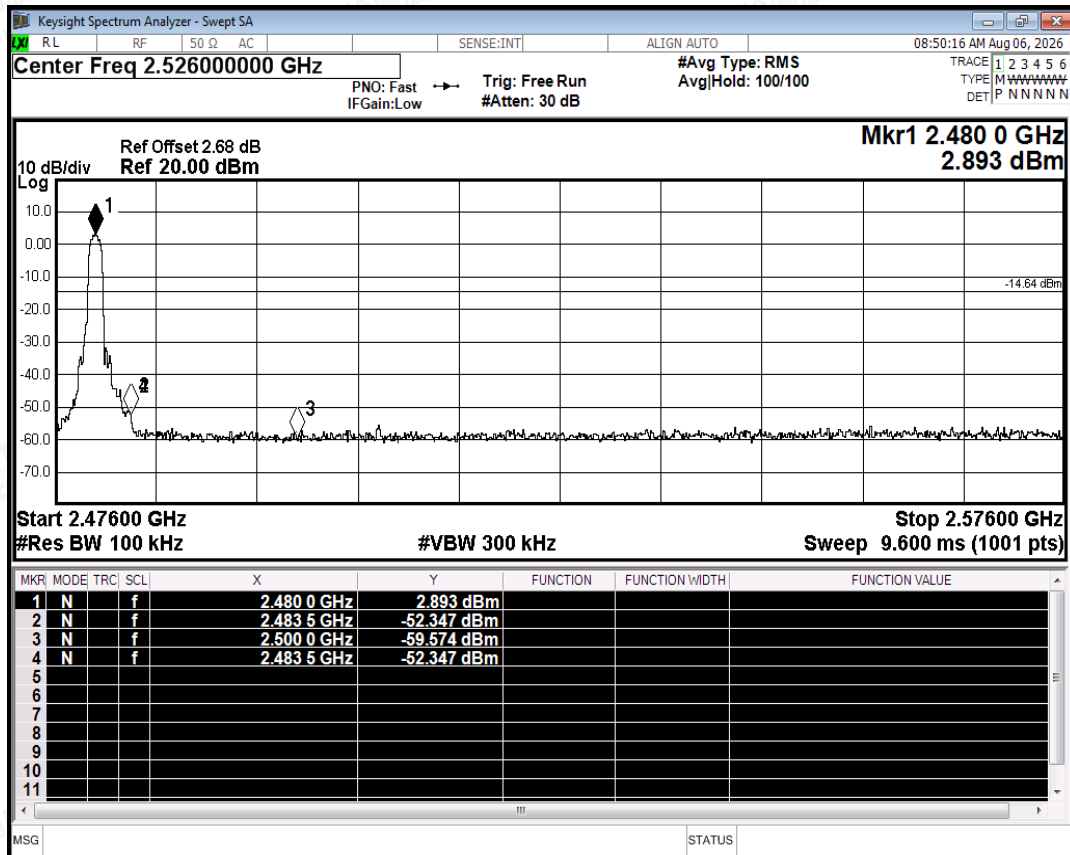
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



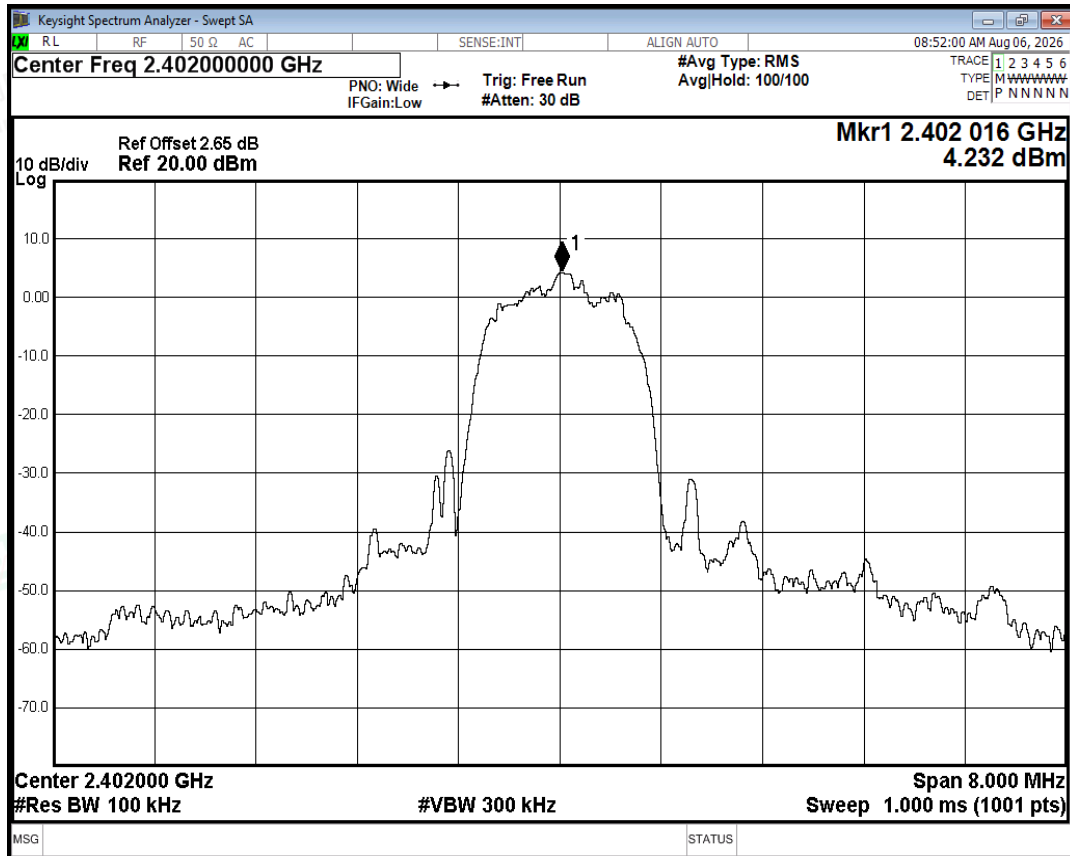
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



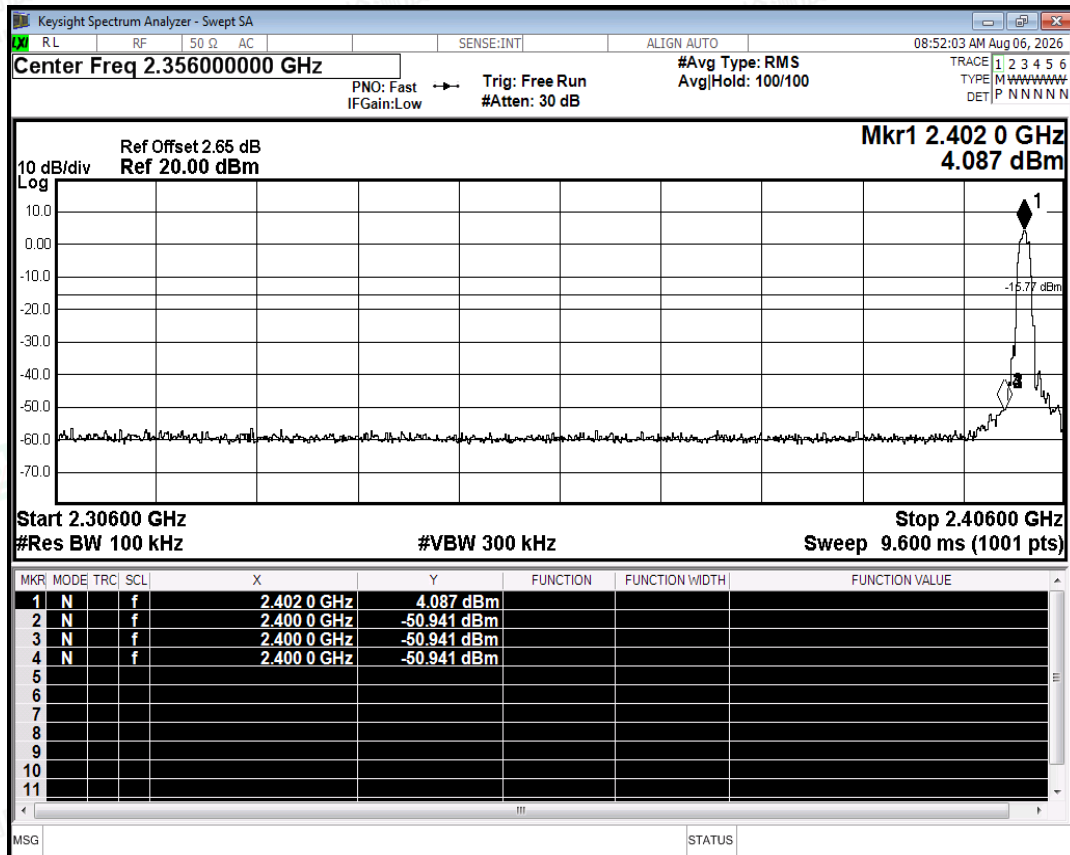
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



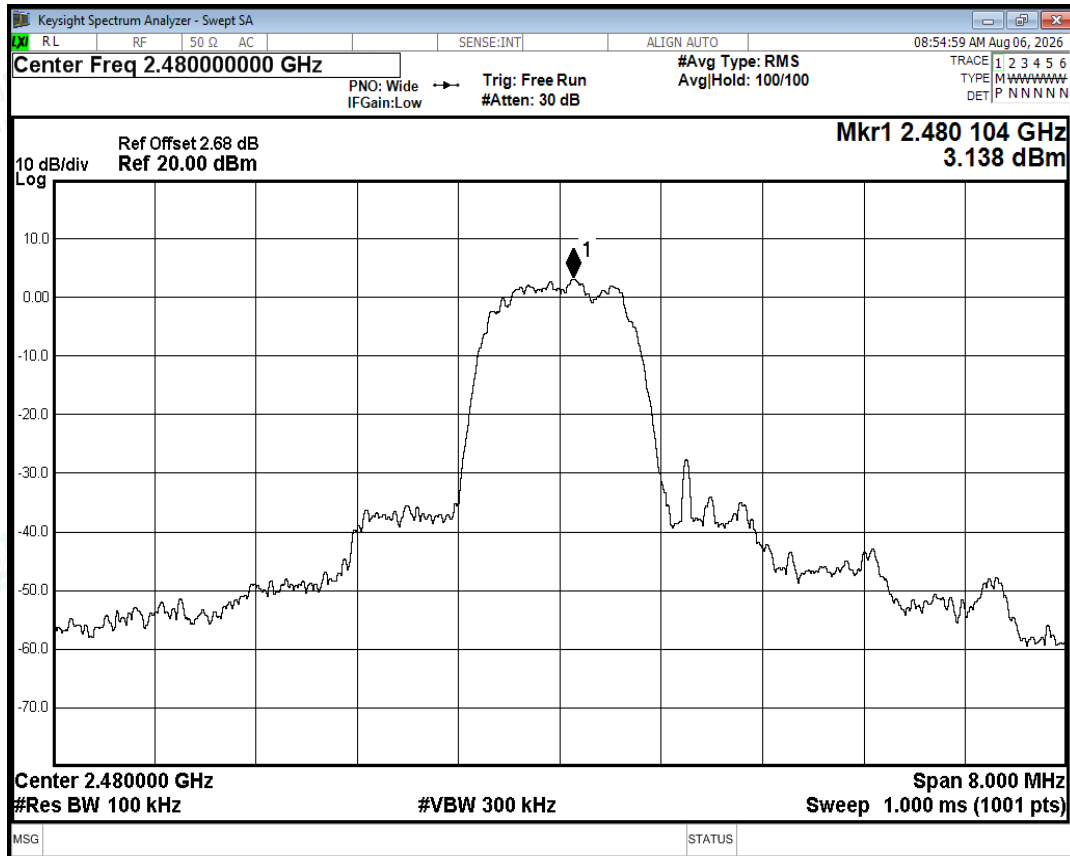
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



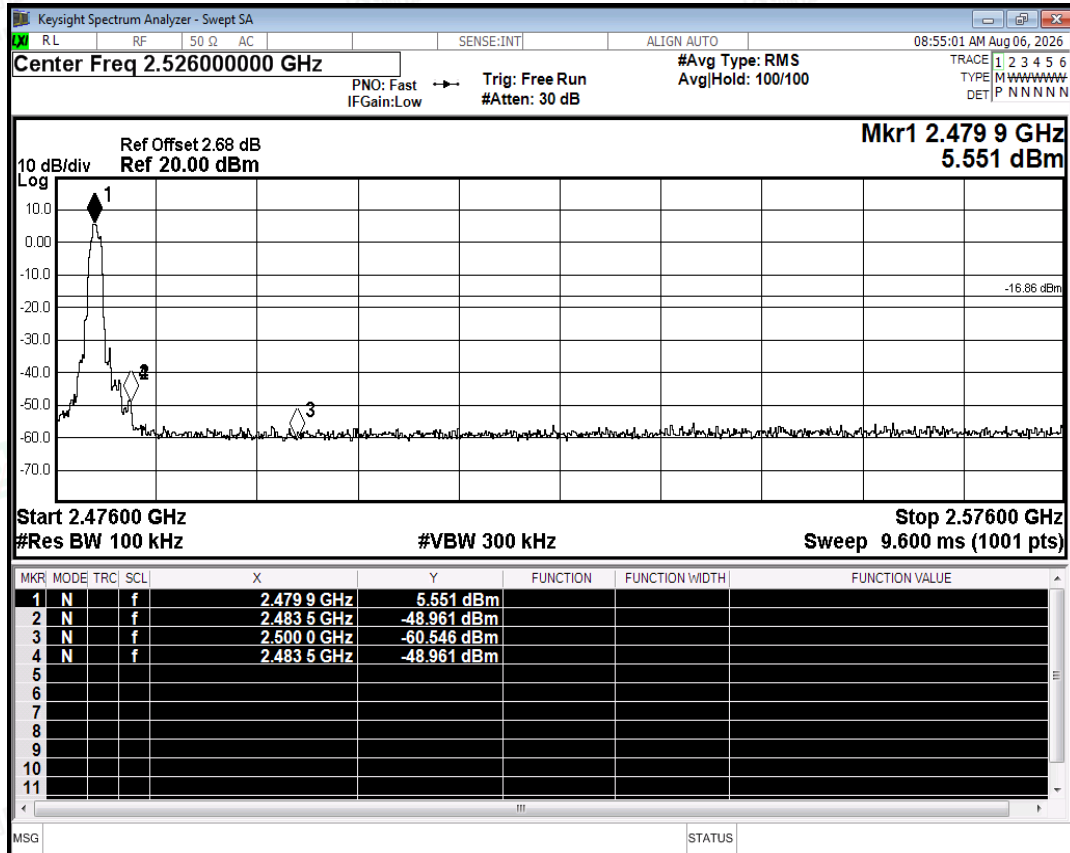
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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

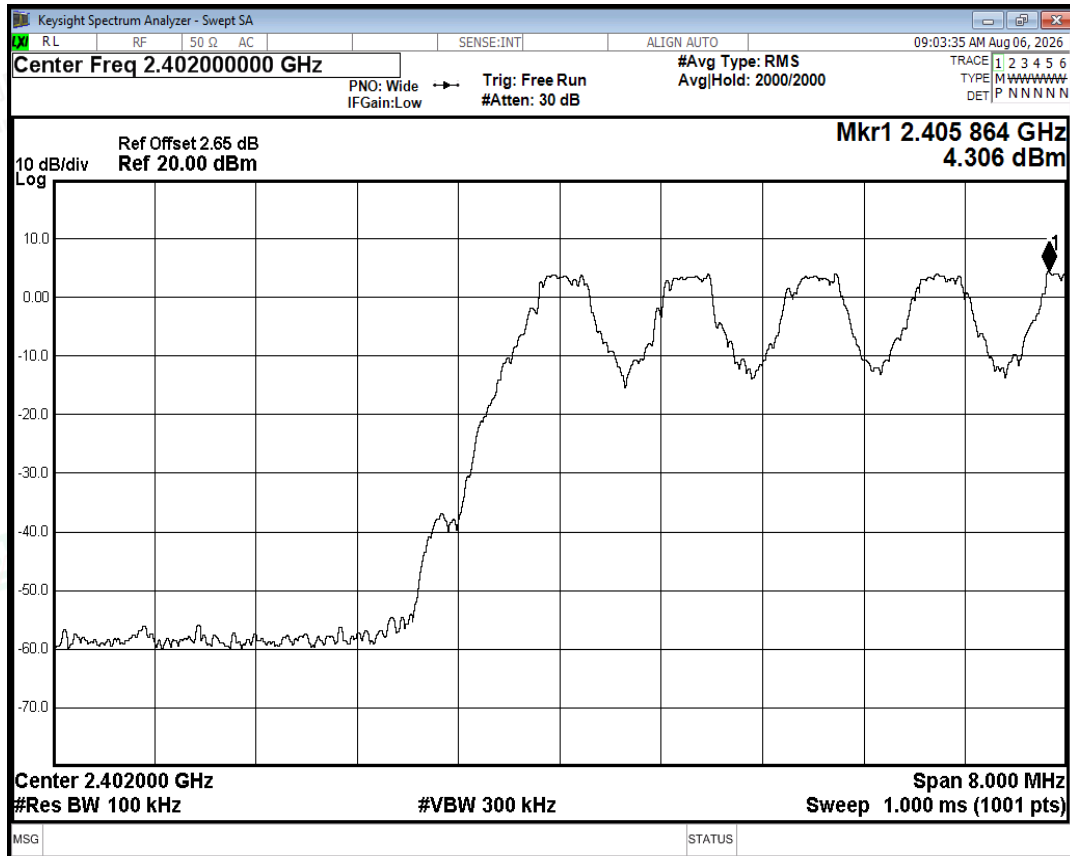


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

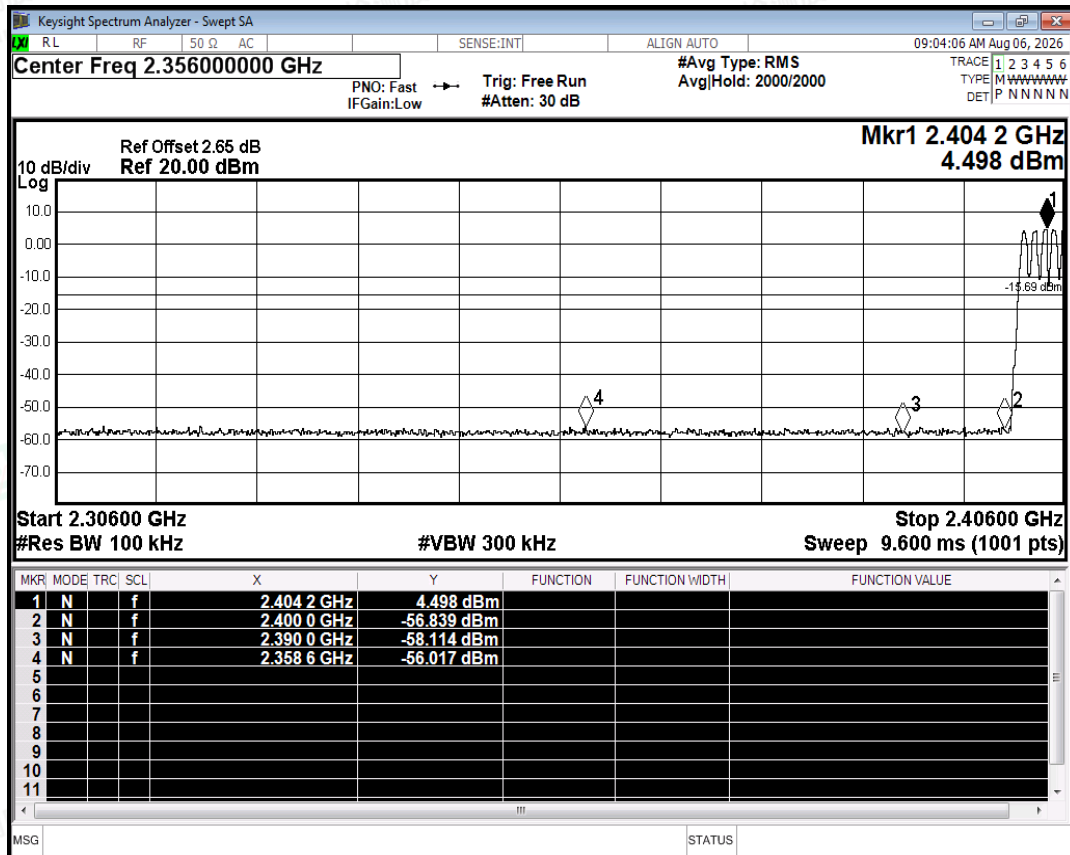


(Hopping)

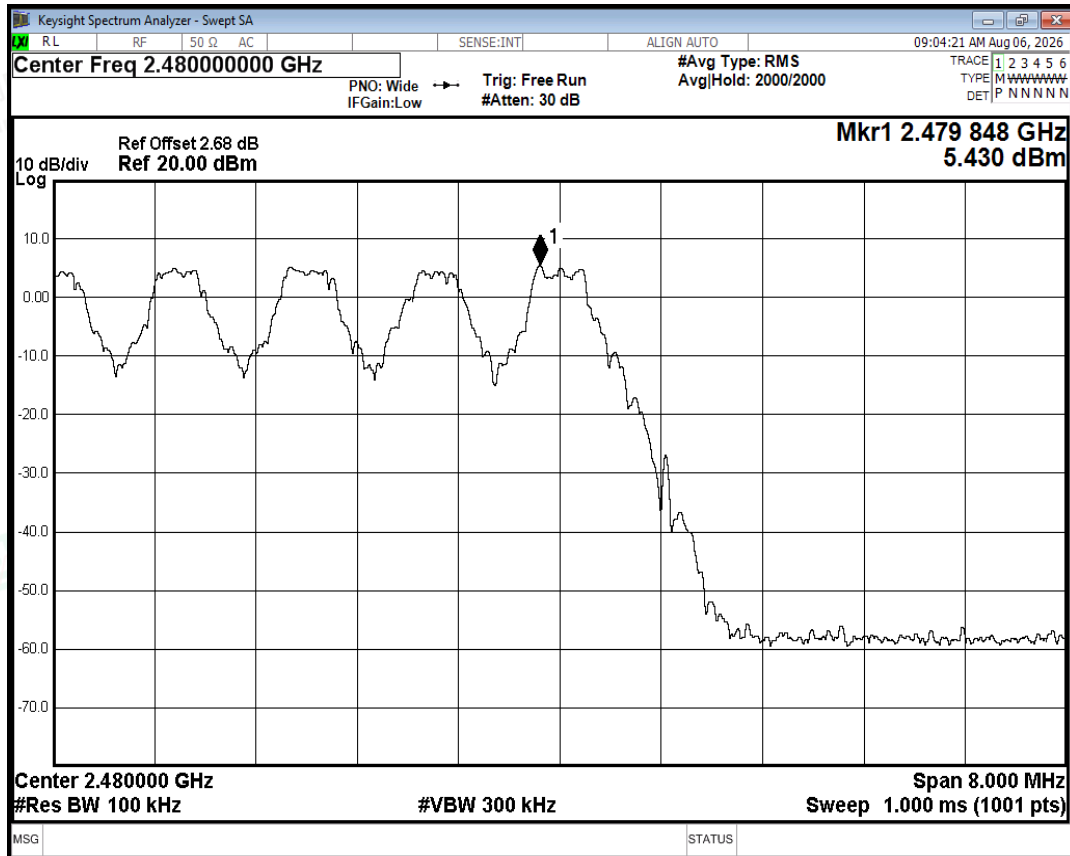
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-60.32	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-61.52	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.67	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-60.4	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-59.37	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-58.07	-20	Pass



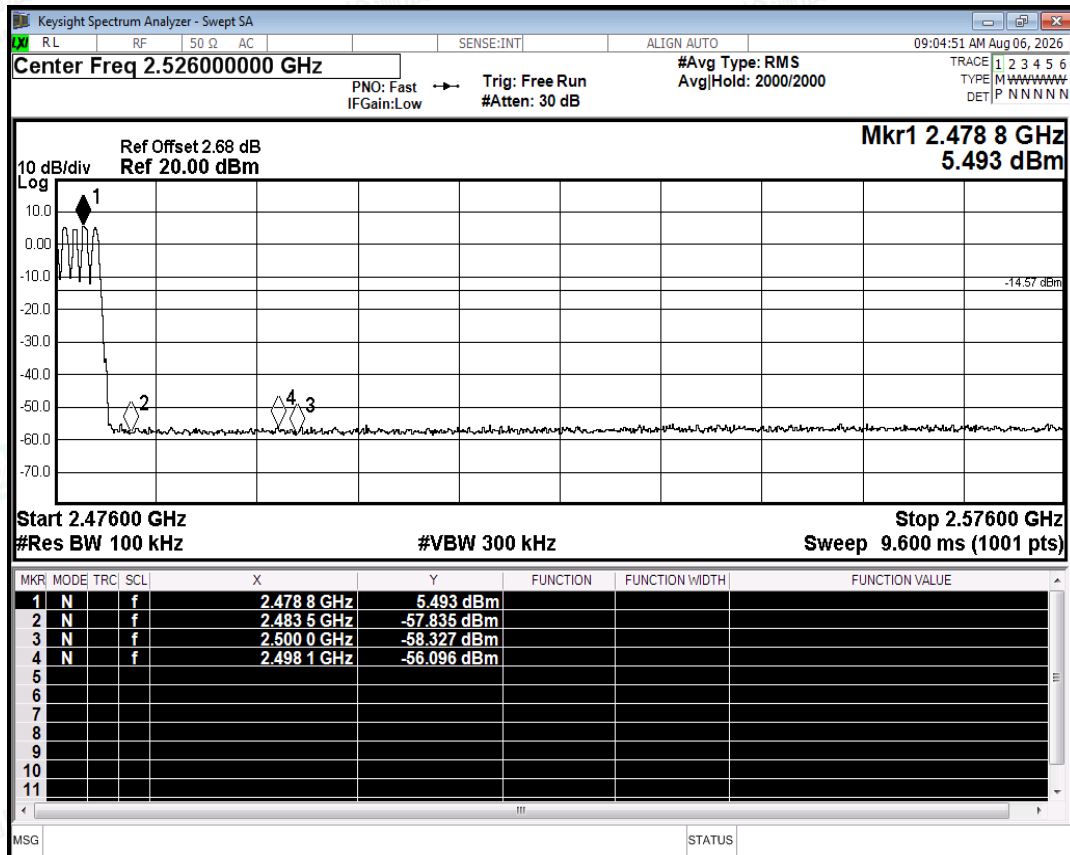
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



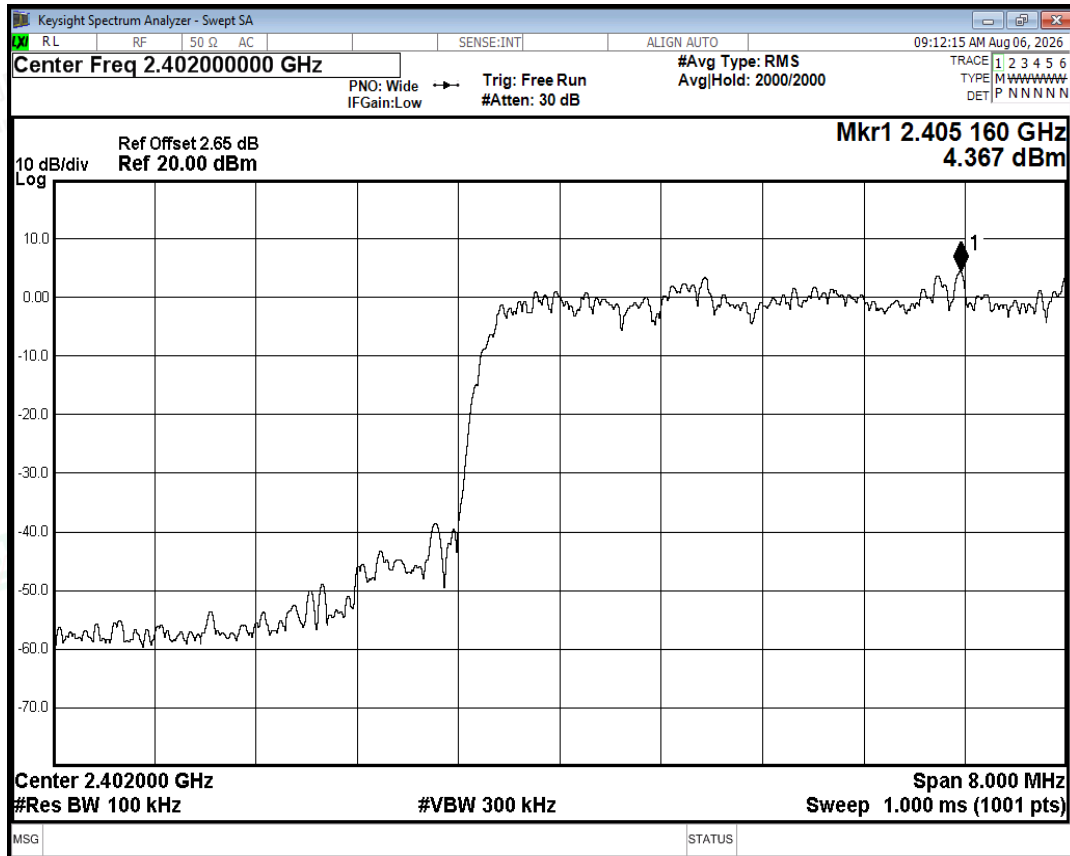
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



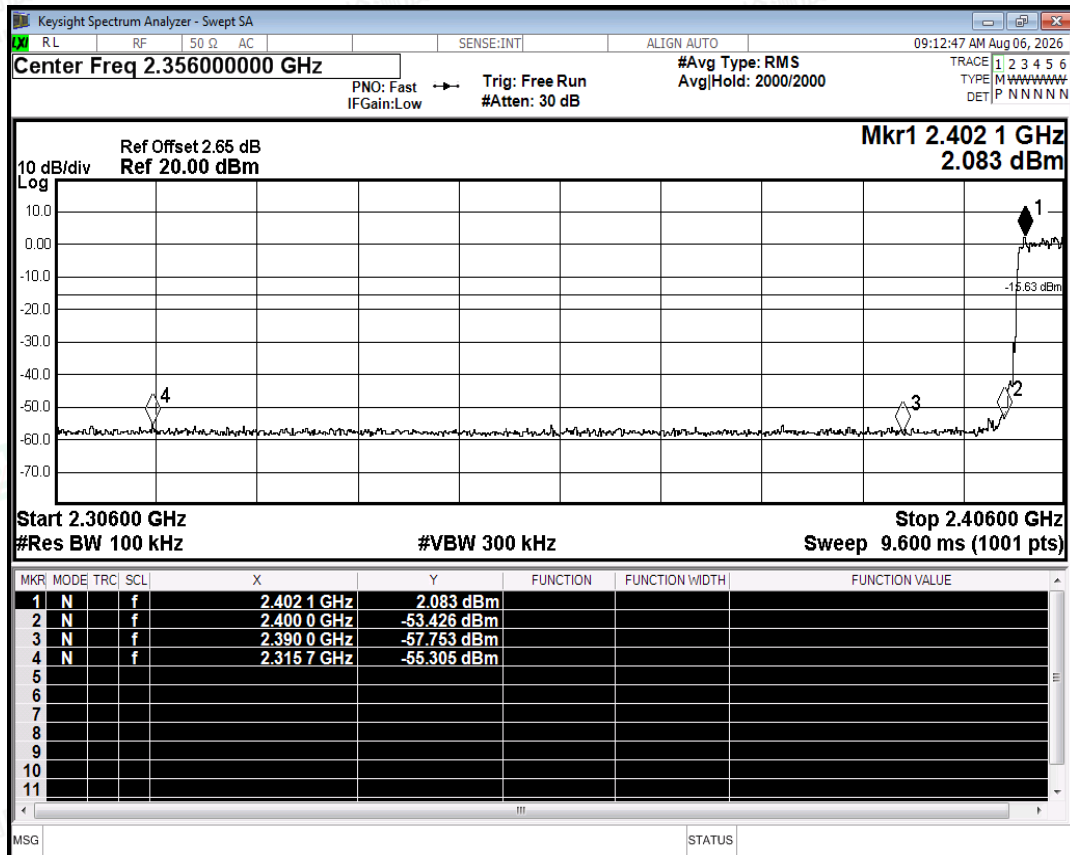
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



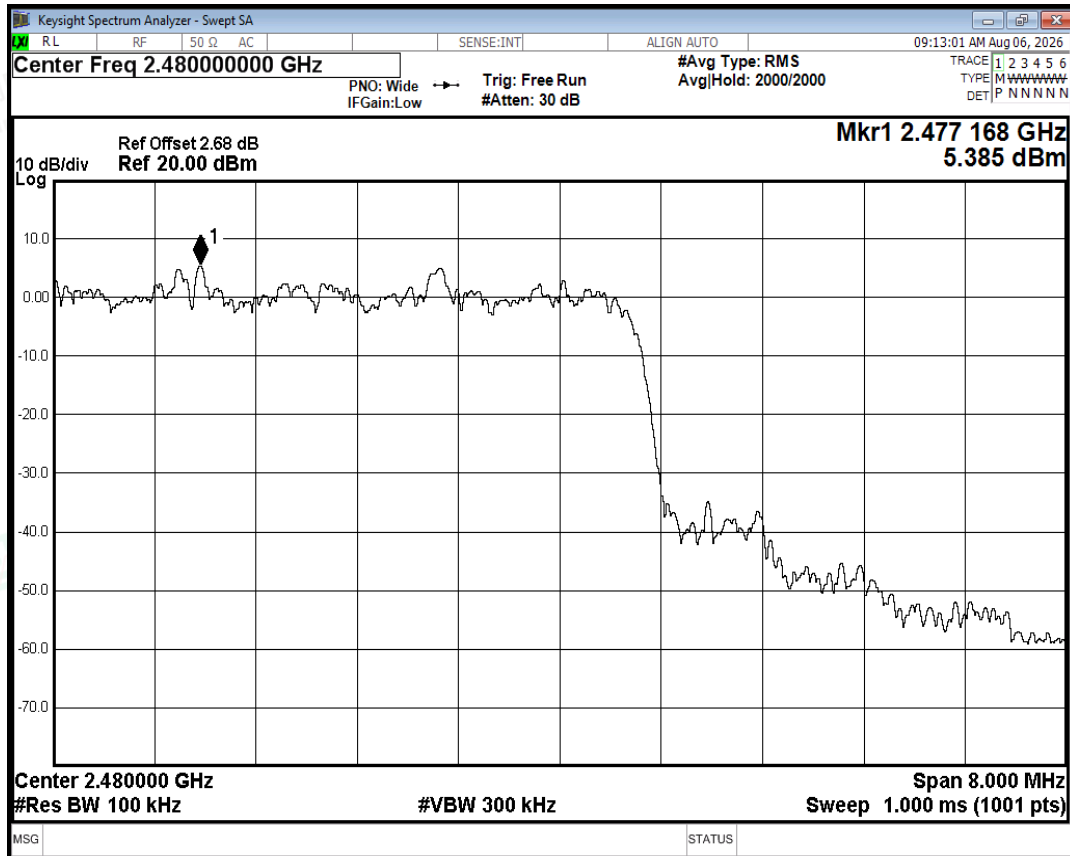
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



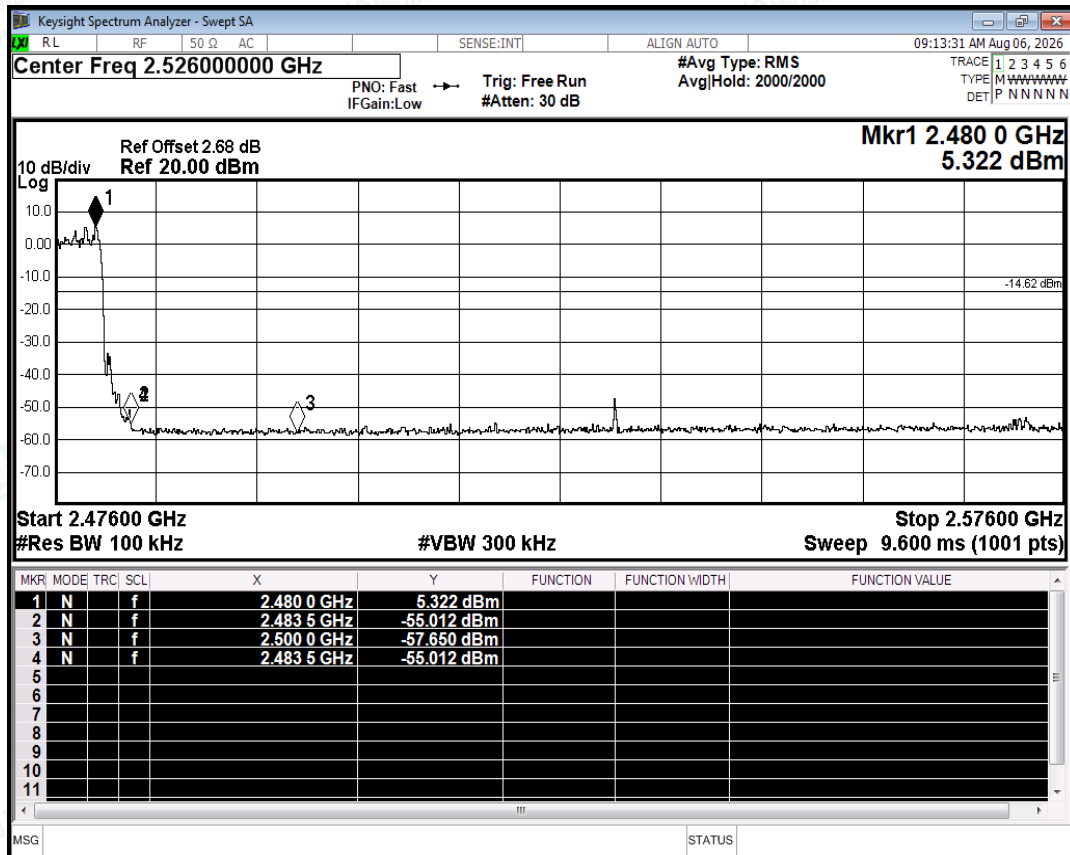
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



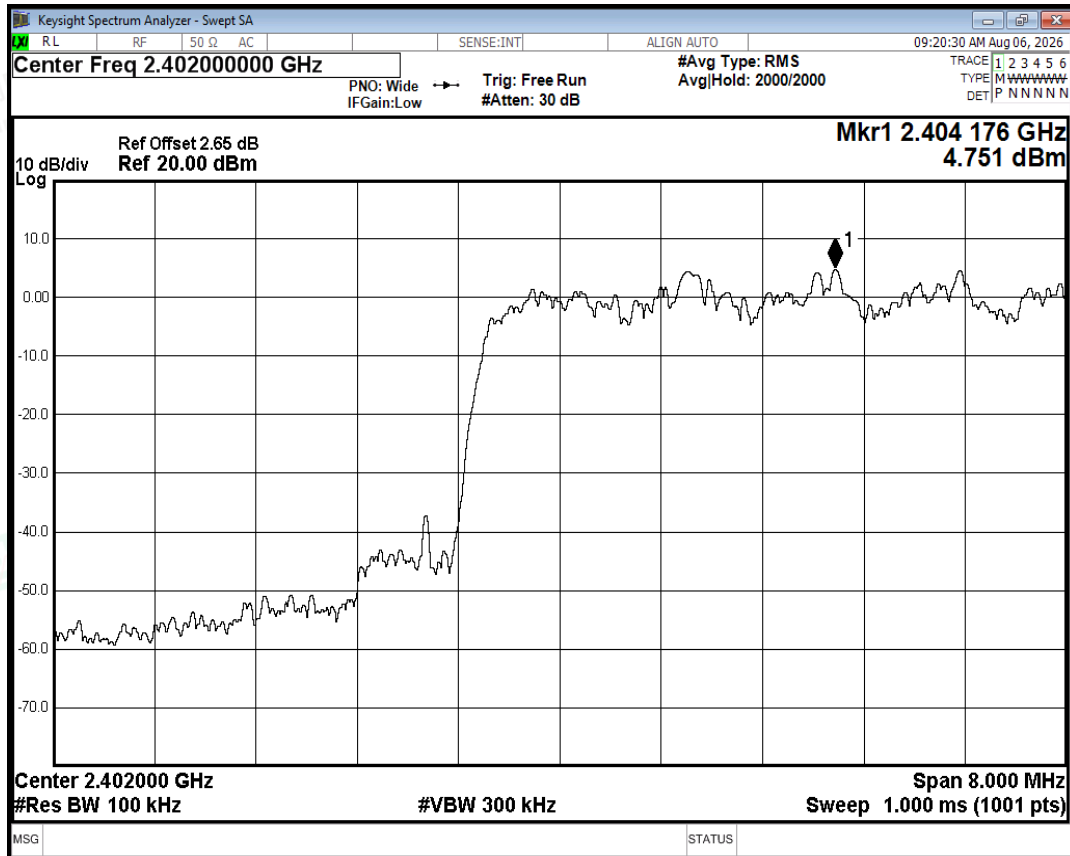
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



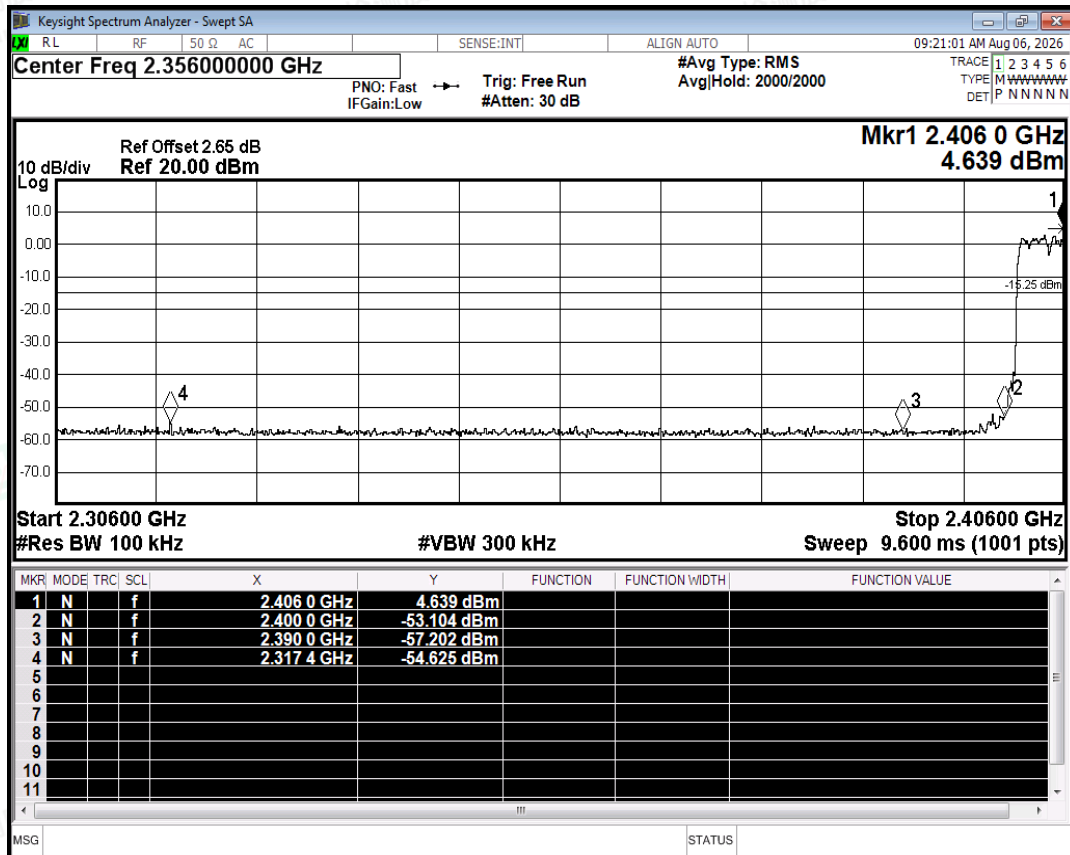
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



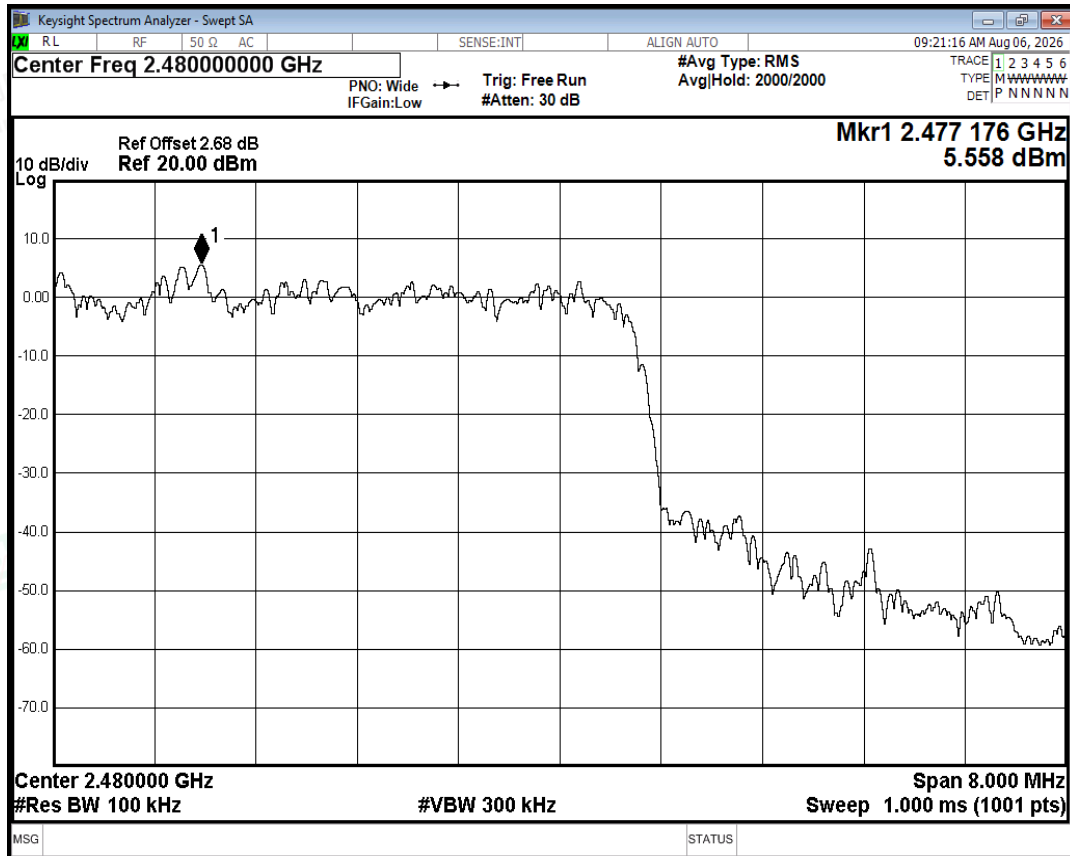
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



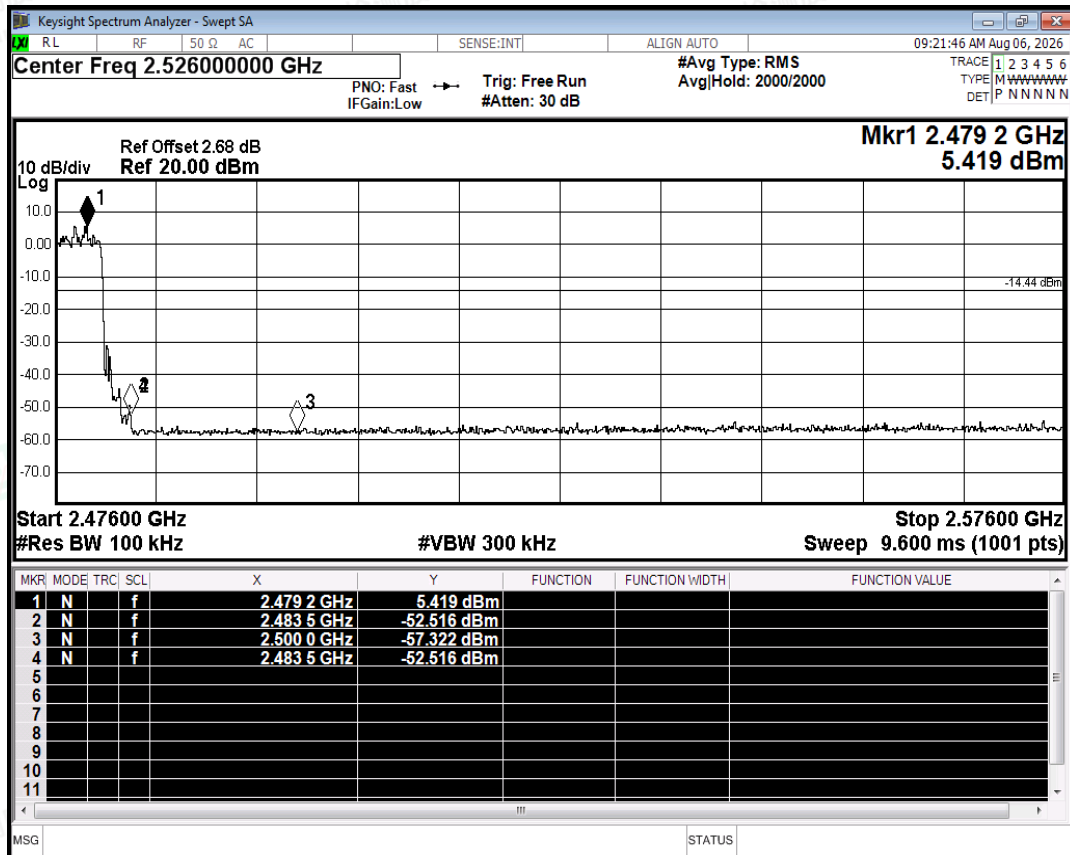
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



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



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

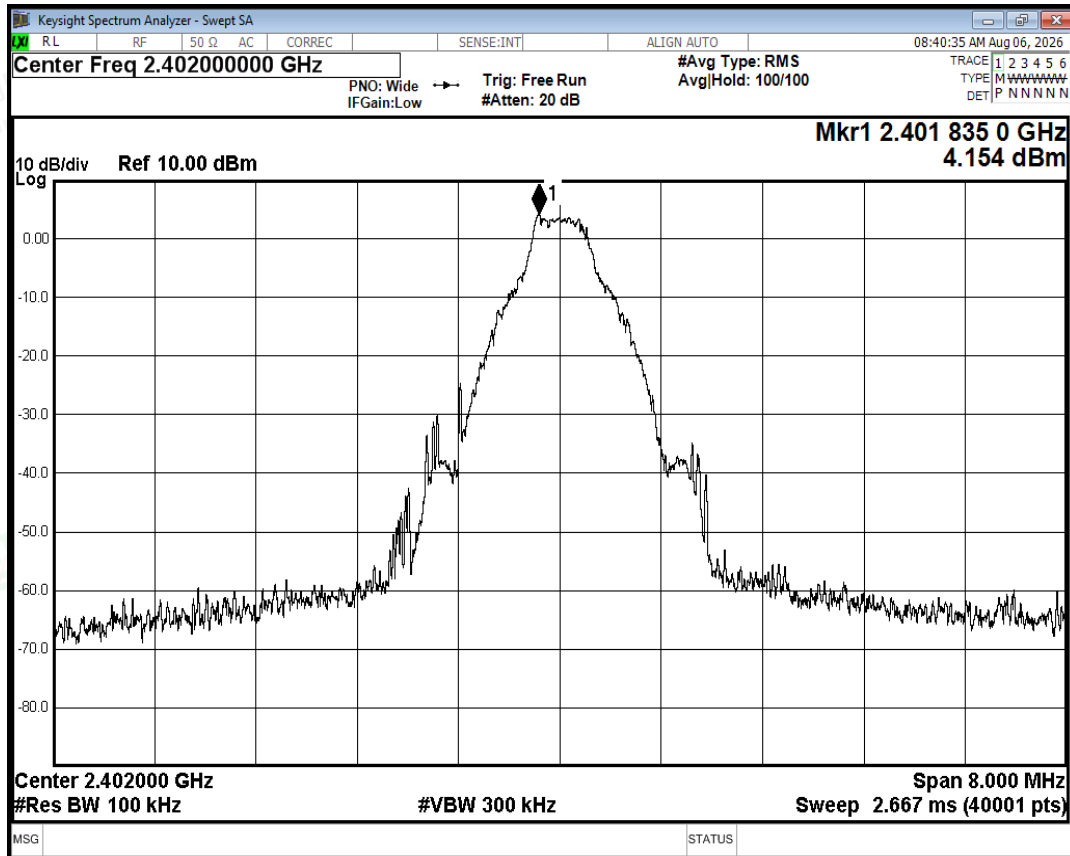


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

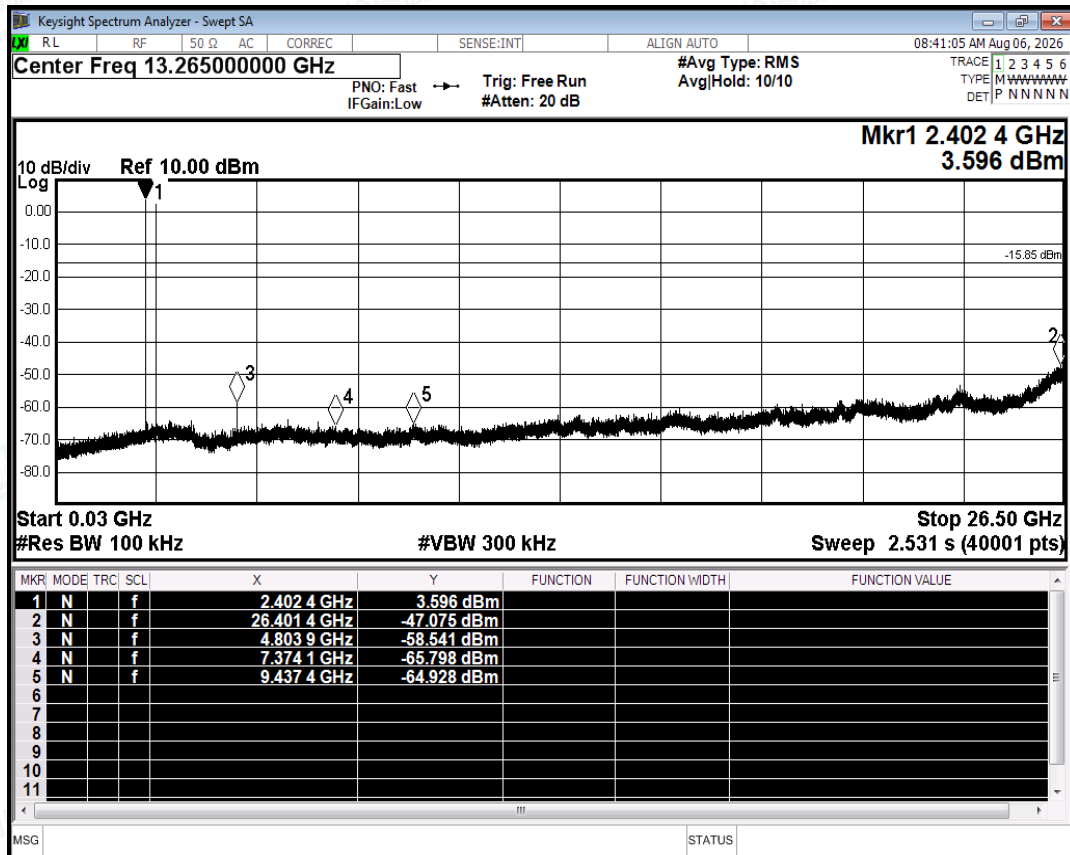


A.7 Conducted RF Spurious Emission

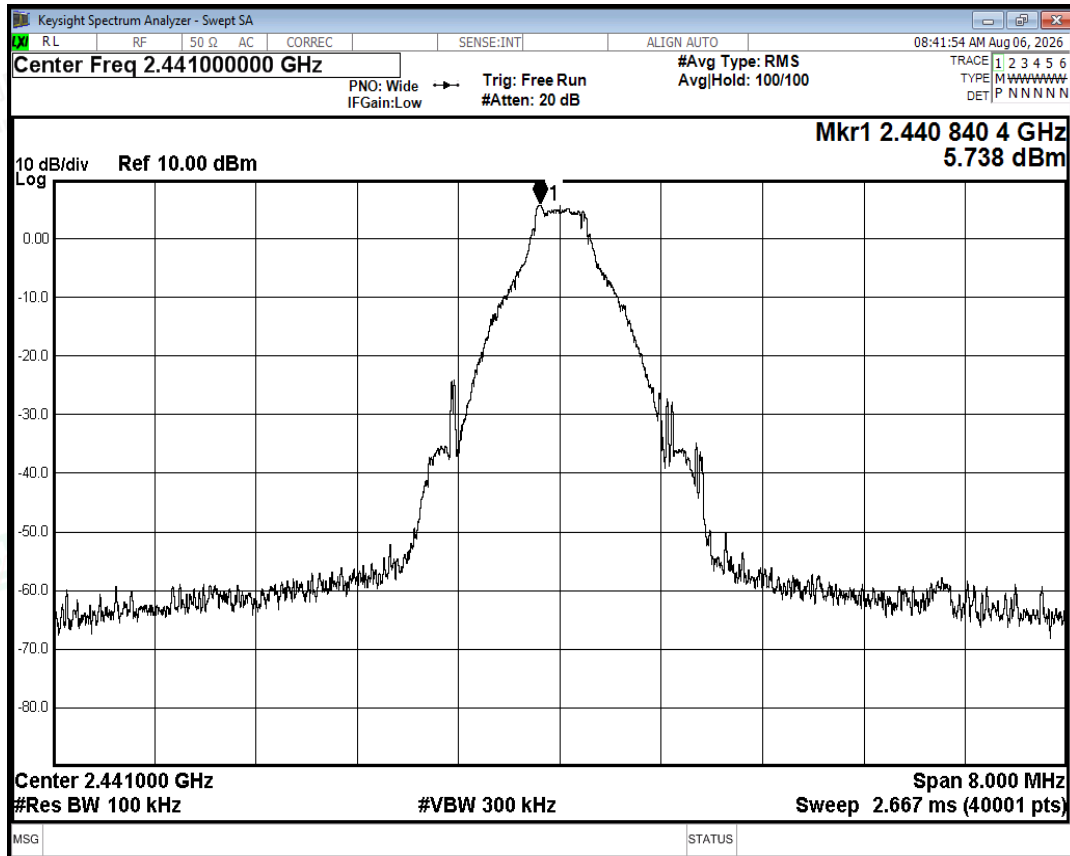
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-51.22	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.33	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.31	-20	Pass
NVNT	2-DH5	2402	Ant1	-50.74	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.07	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.56	-20	Pass
NVNT	3-DH5	2402	Ant1	-51.91	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.02	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.31	-20	Pass



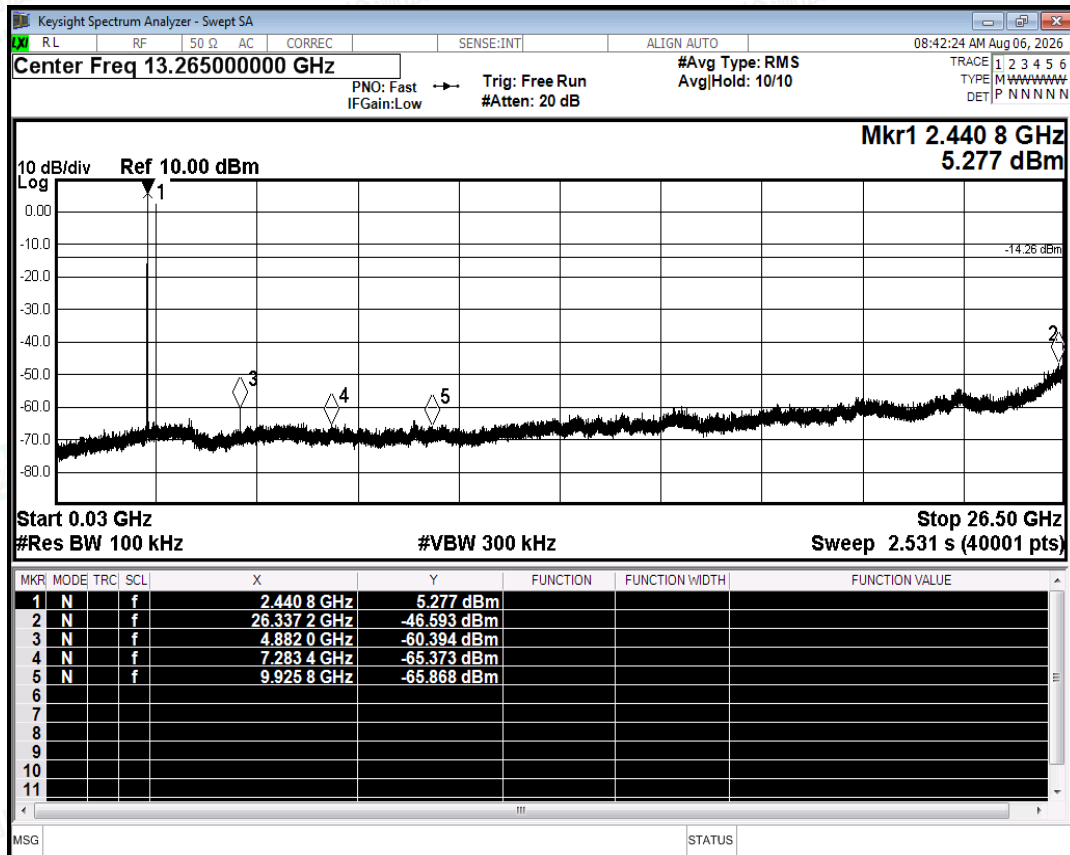
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



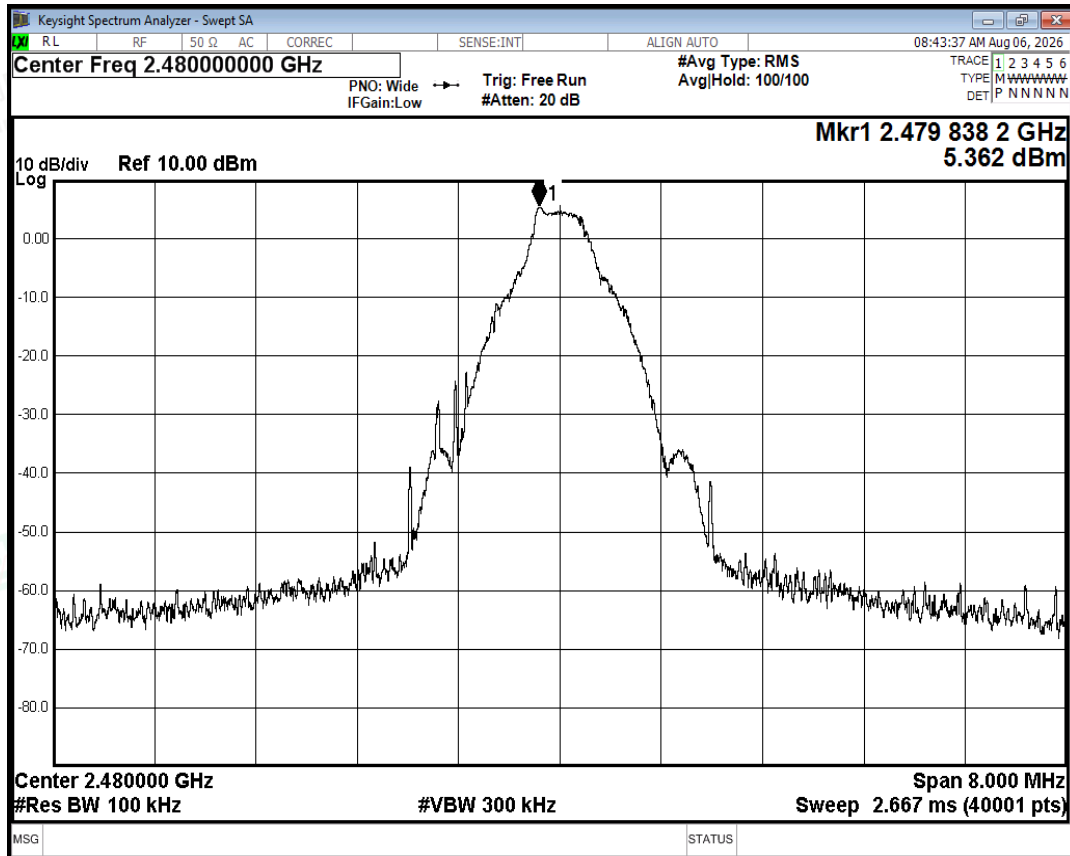
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



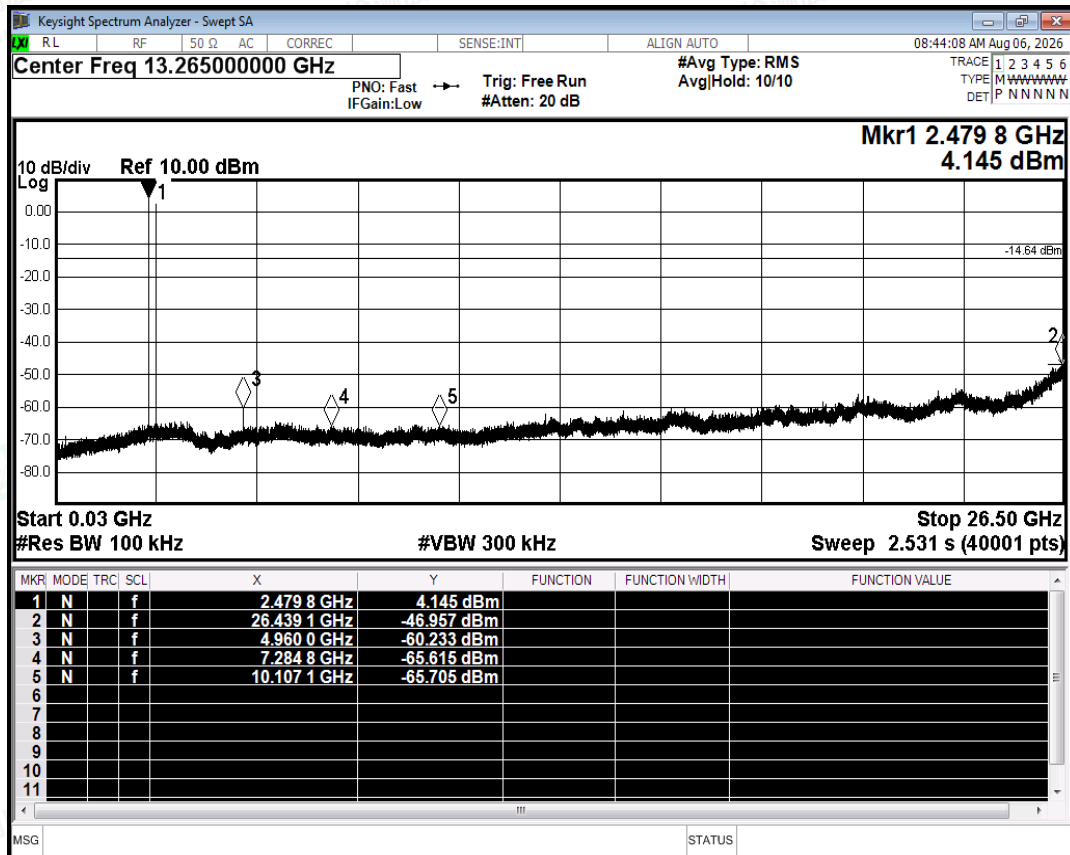
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



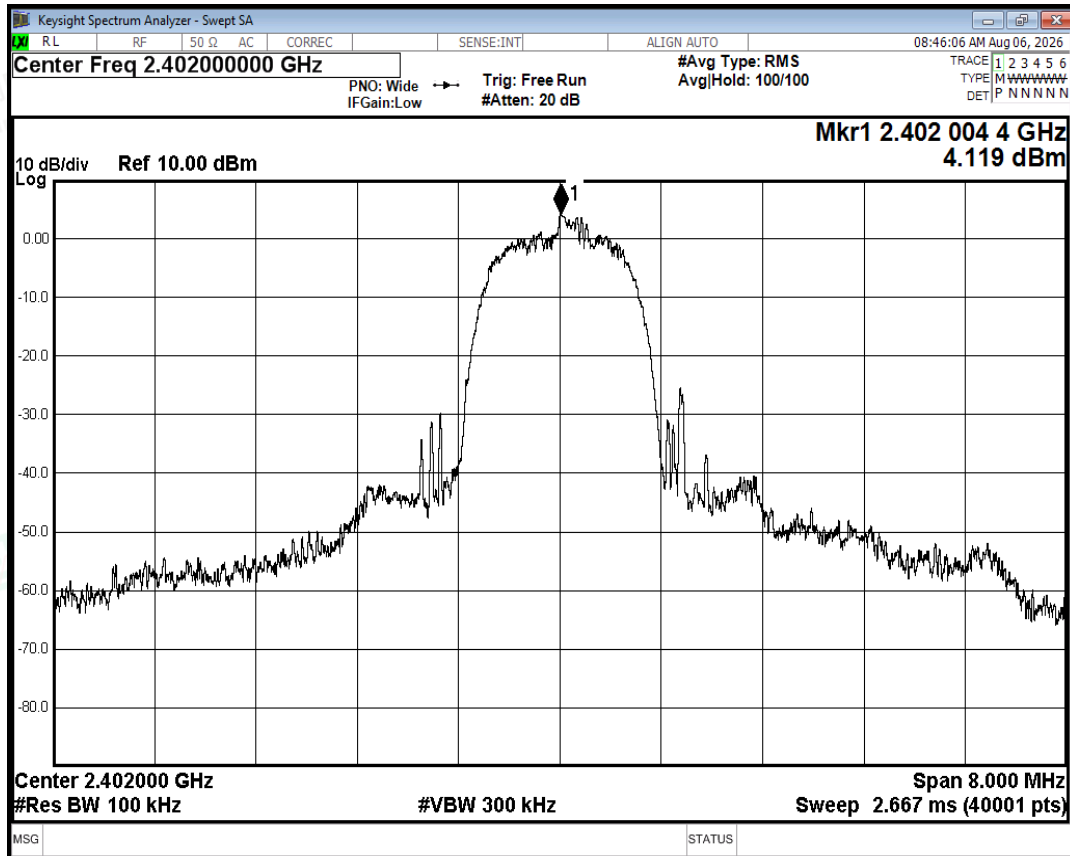
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



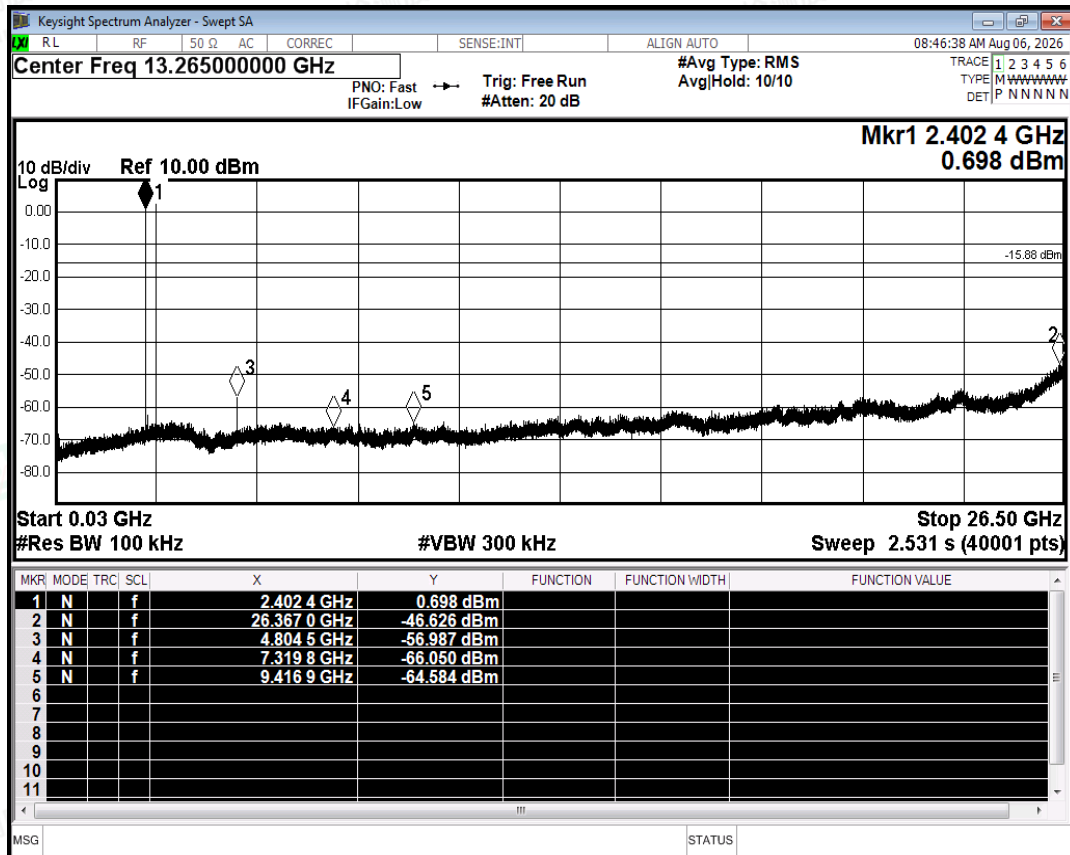
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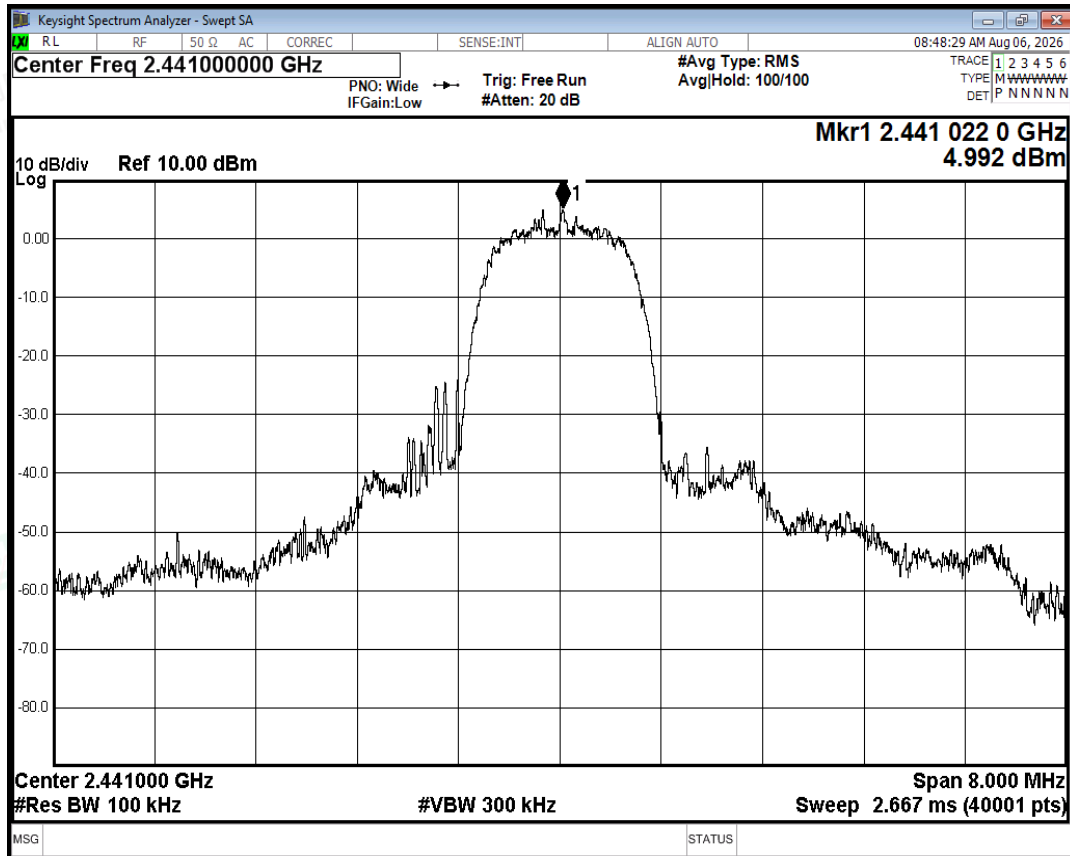
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



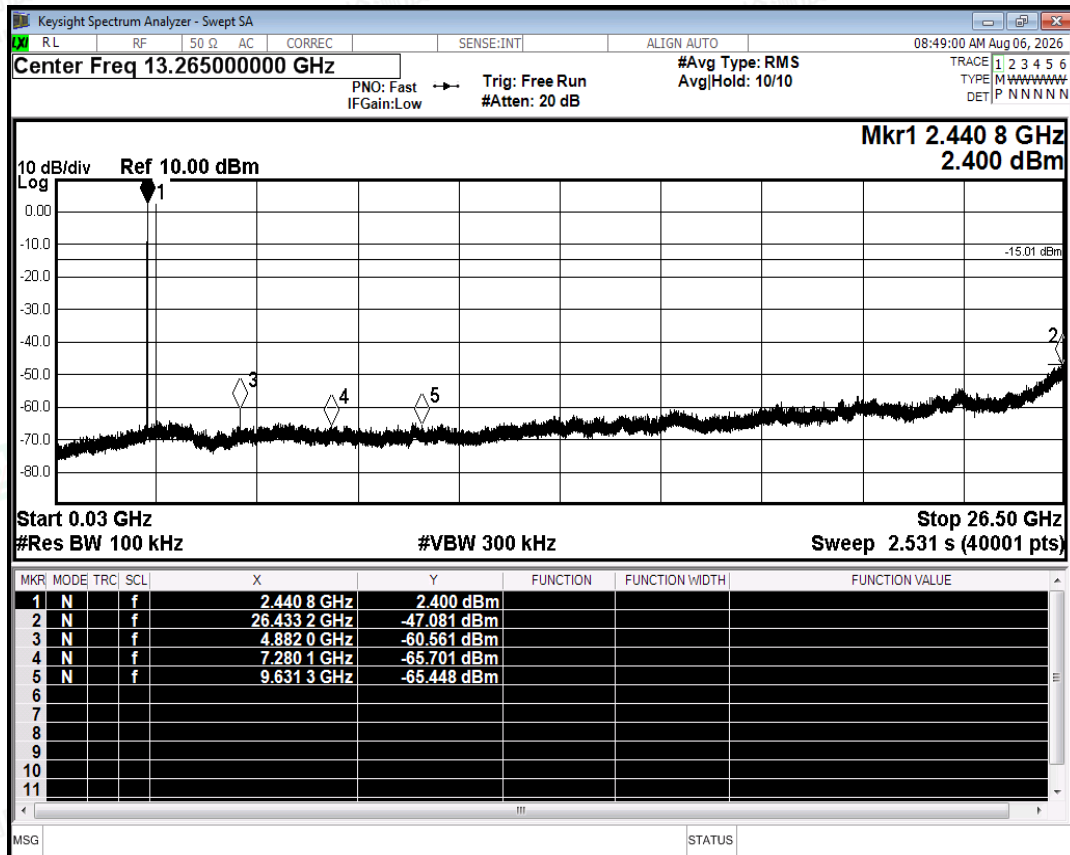
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



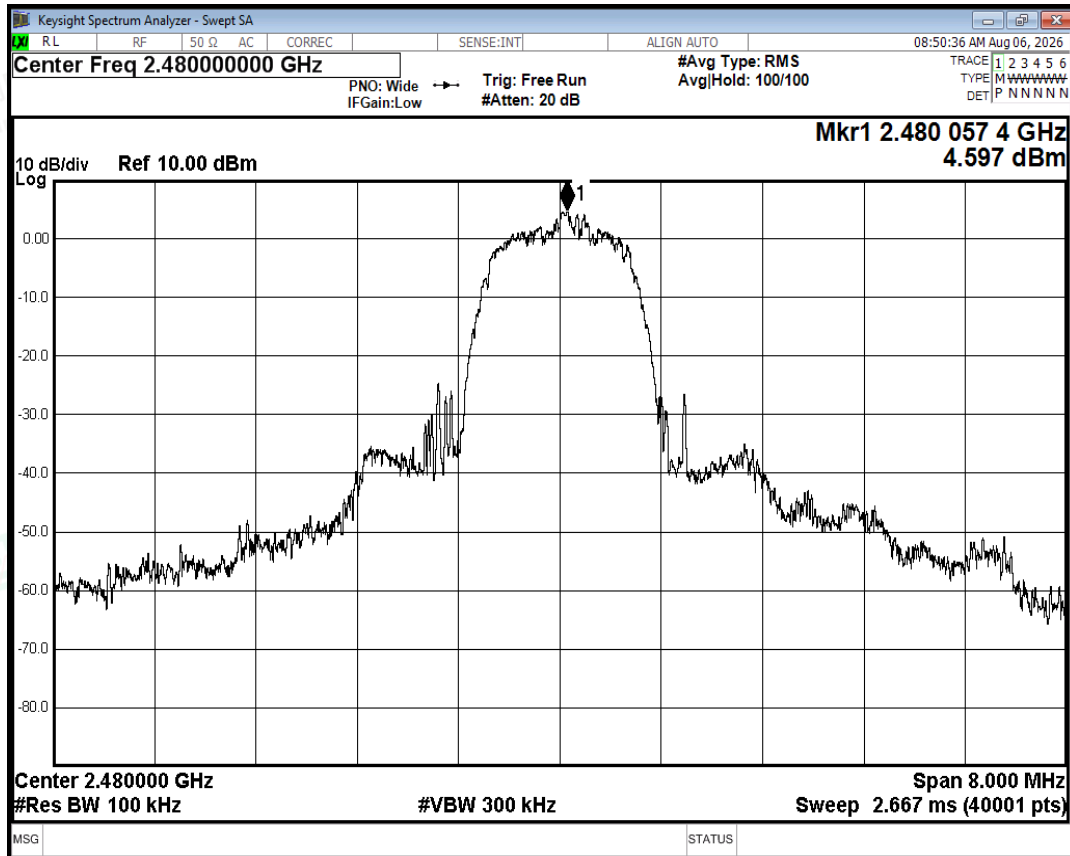
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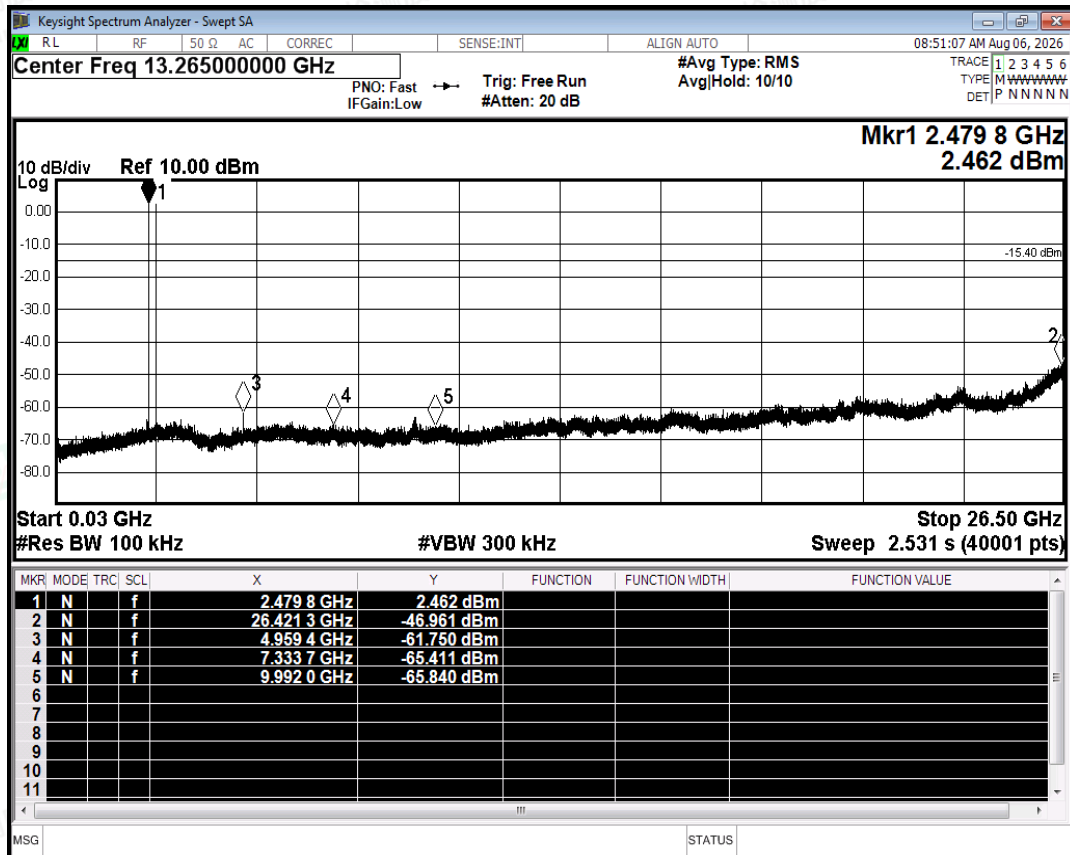
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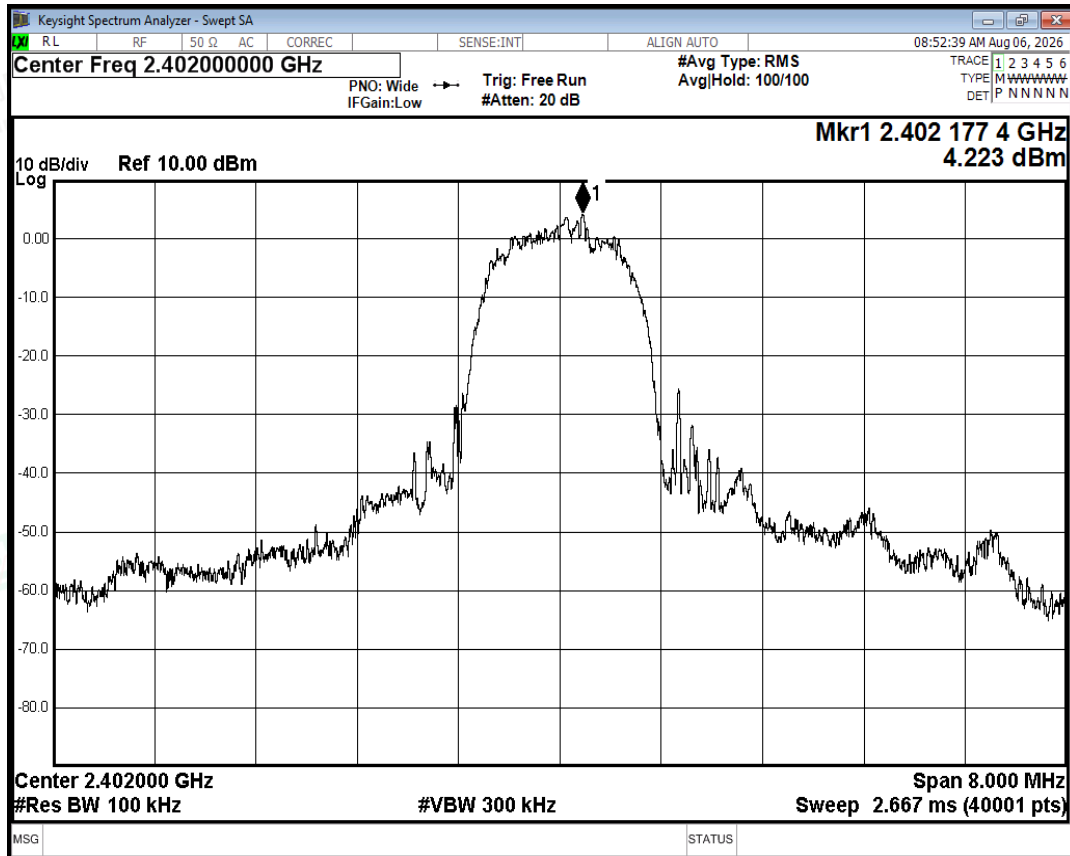
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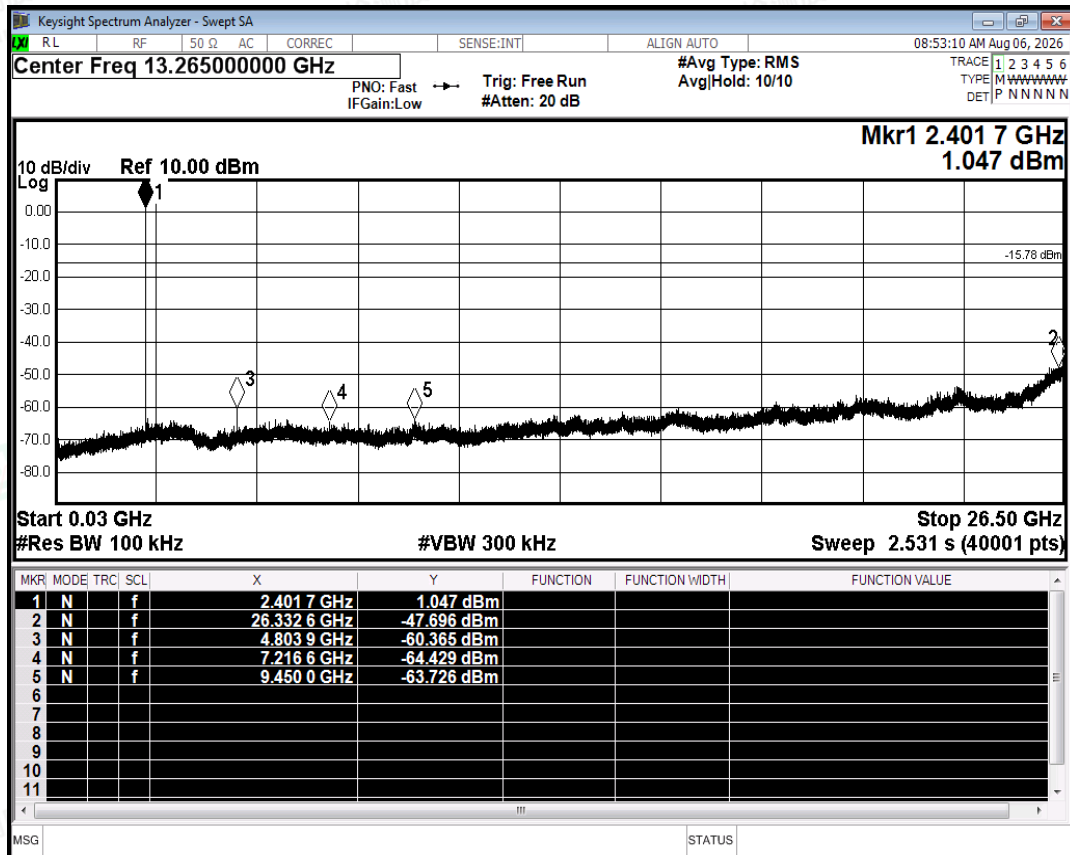
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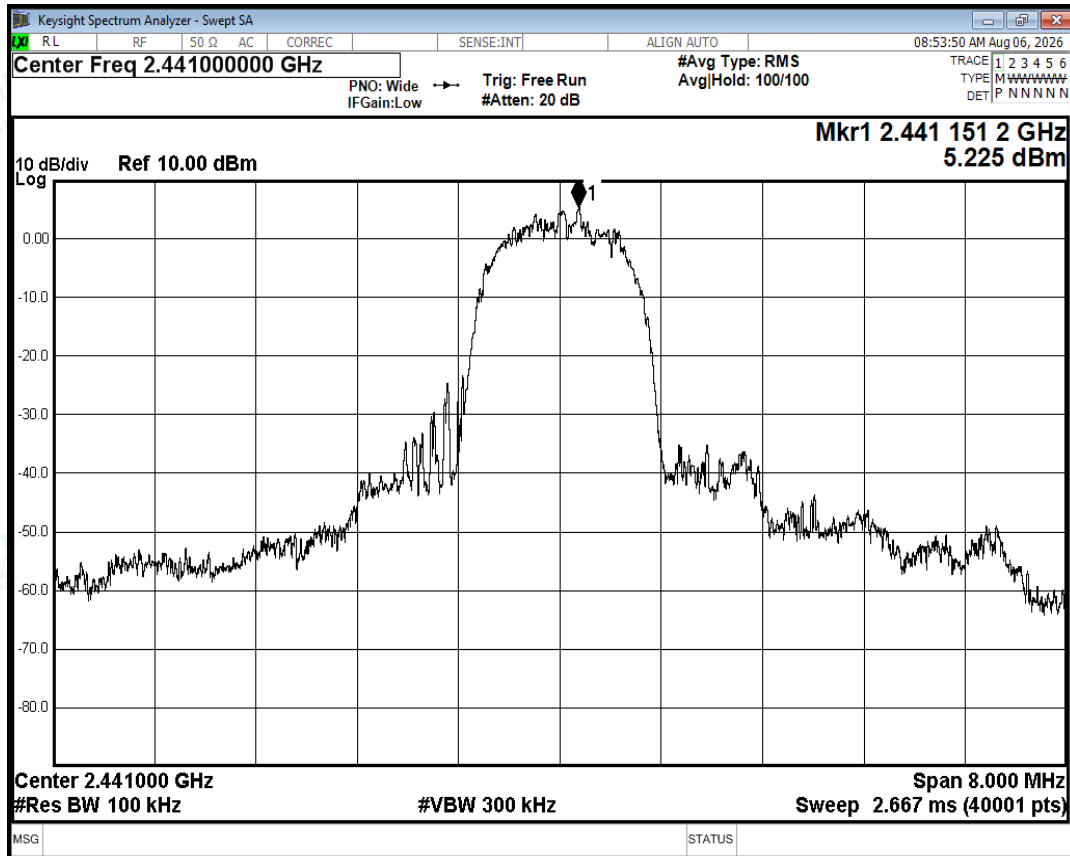
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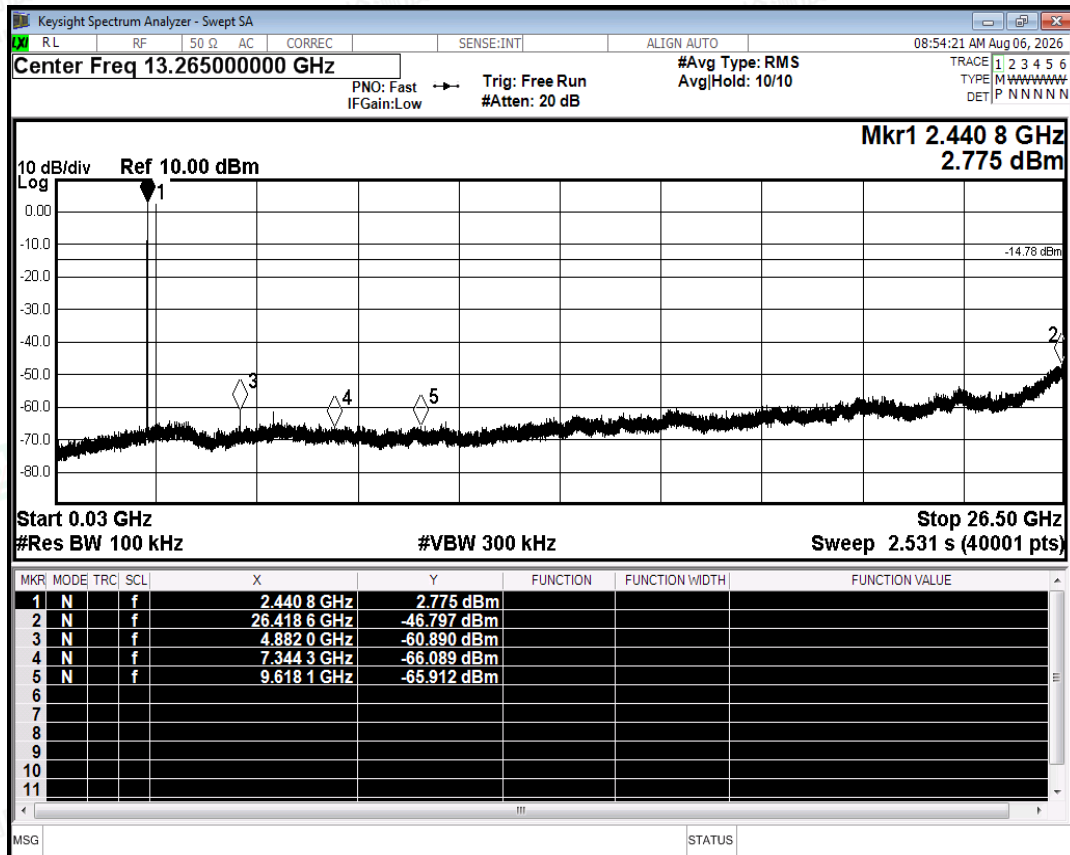
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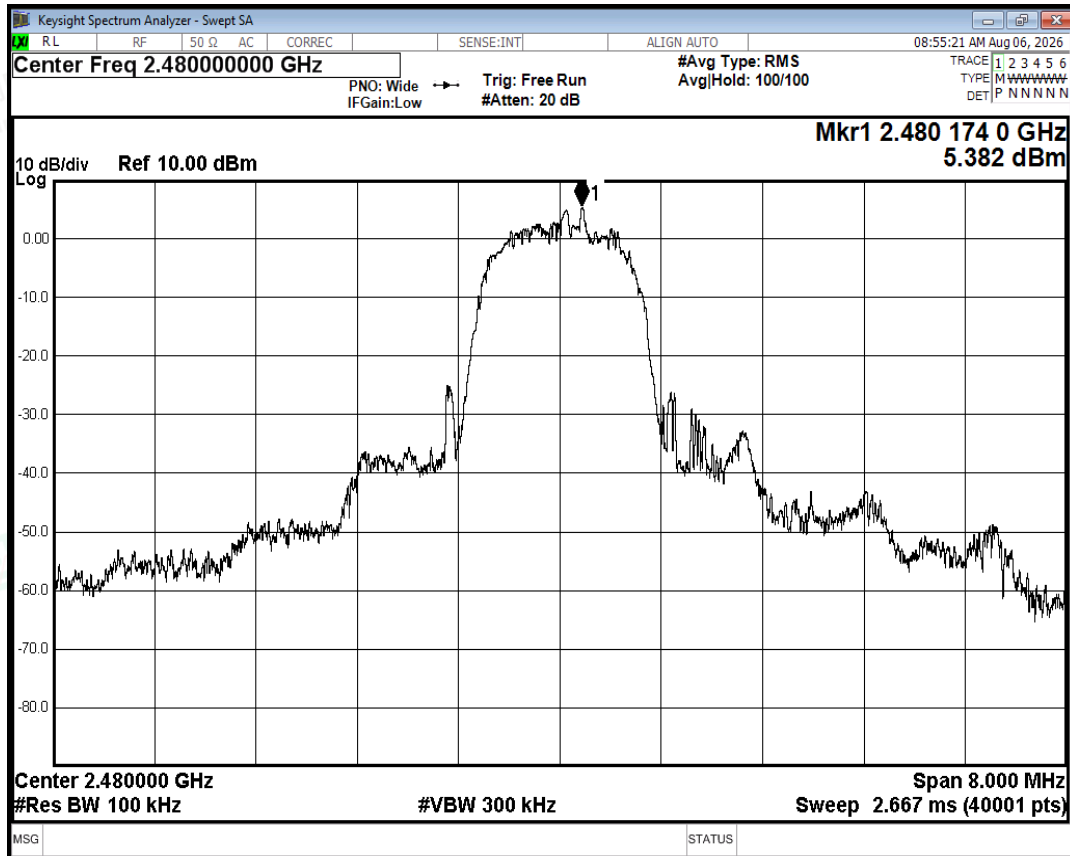
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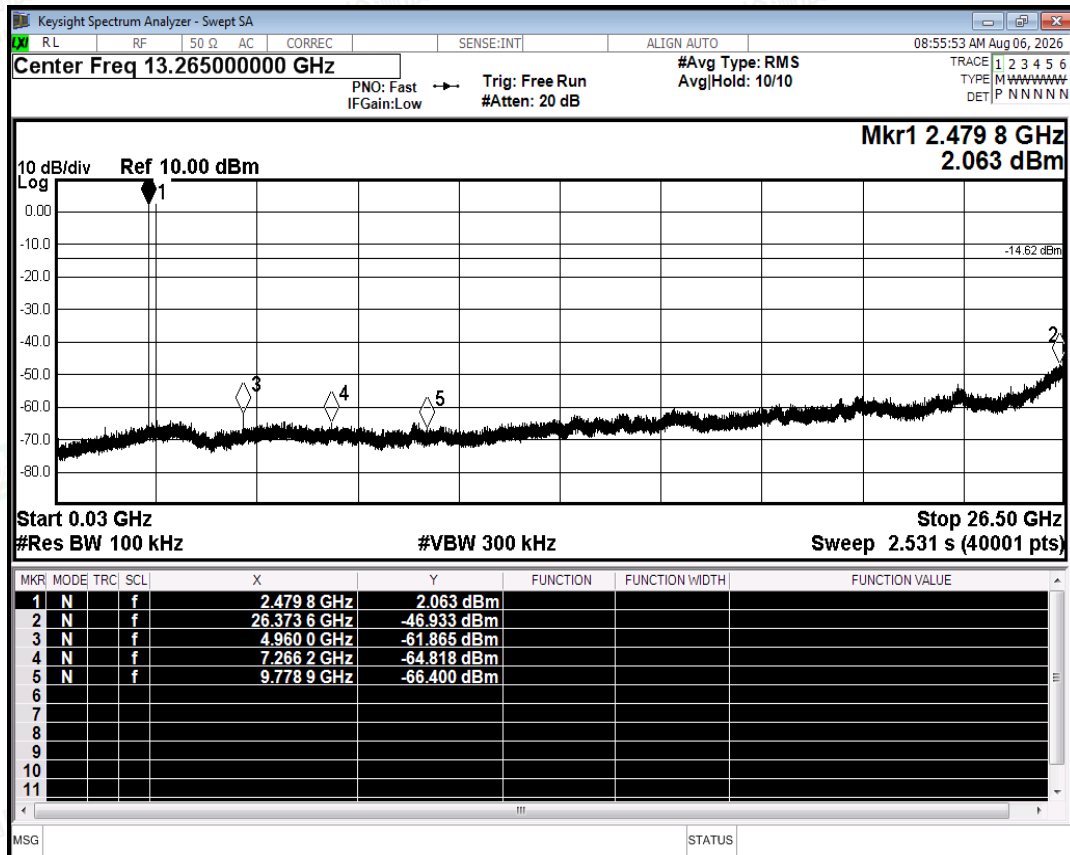
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref

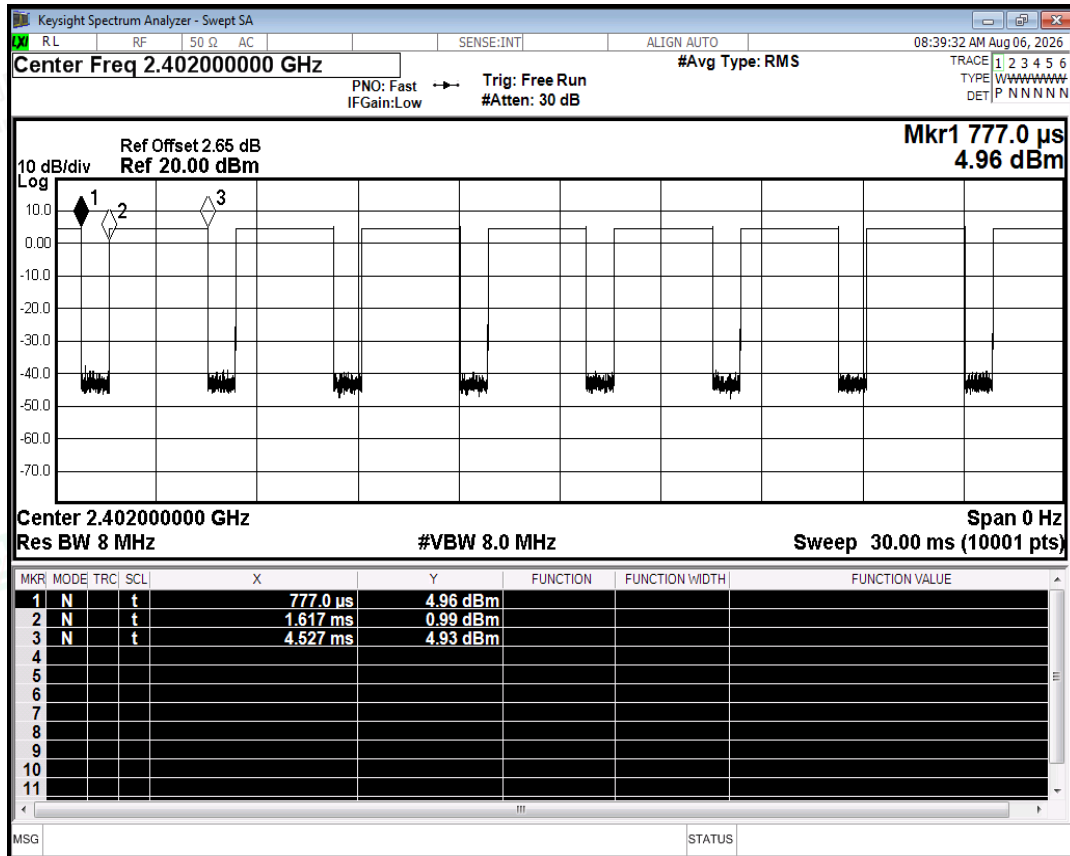


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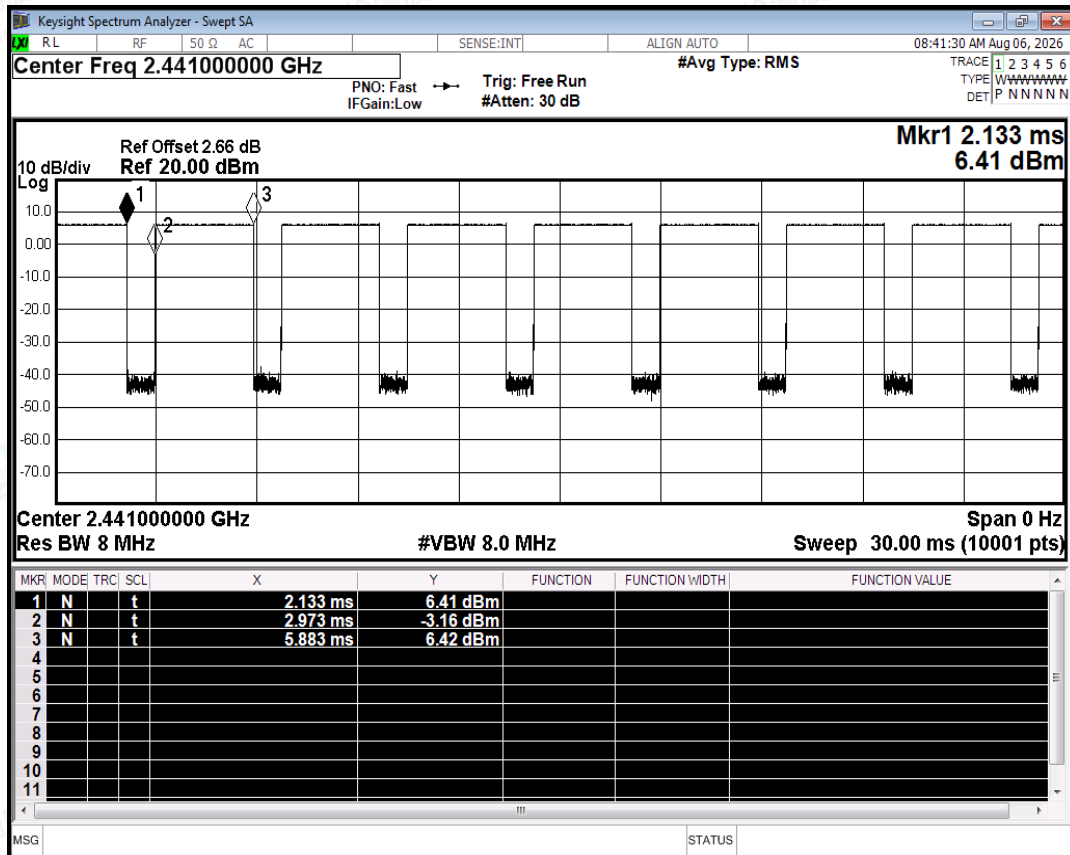


A.8 Duty Cycle

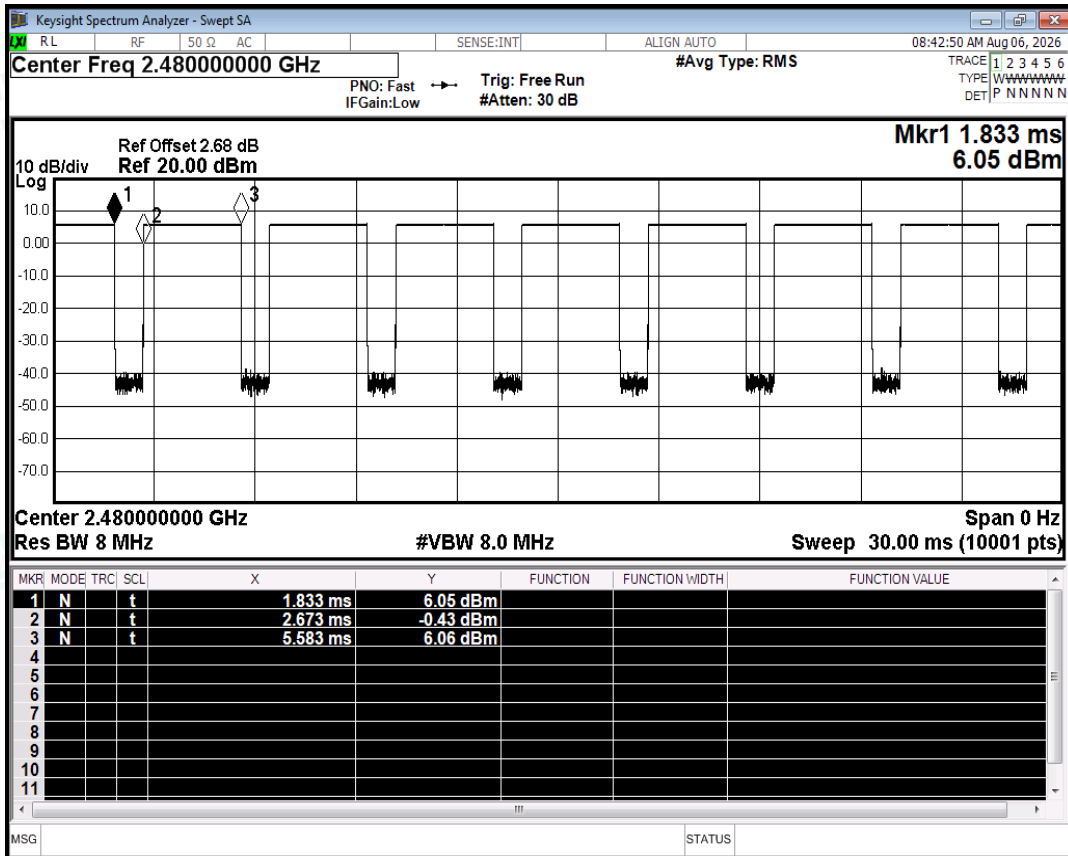
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.36	1.11	0.34
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.2	1.12	0.35



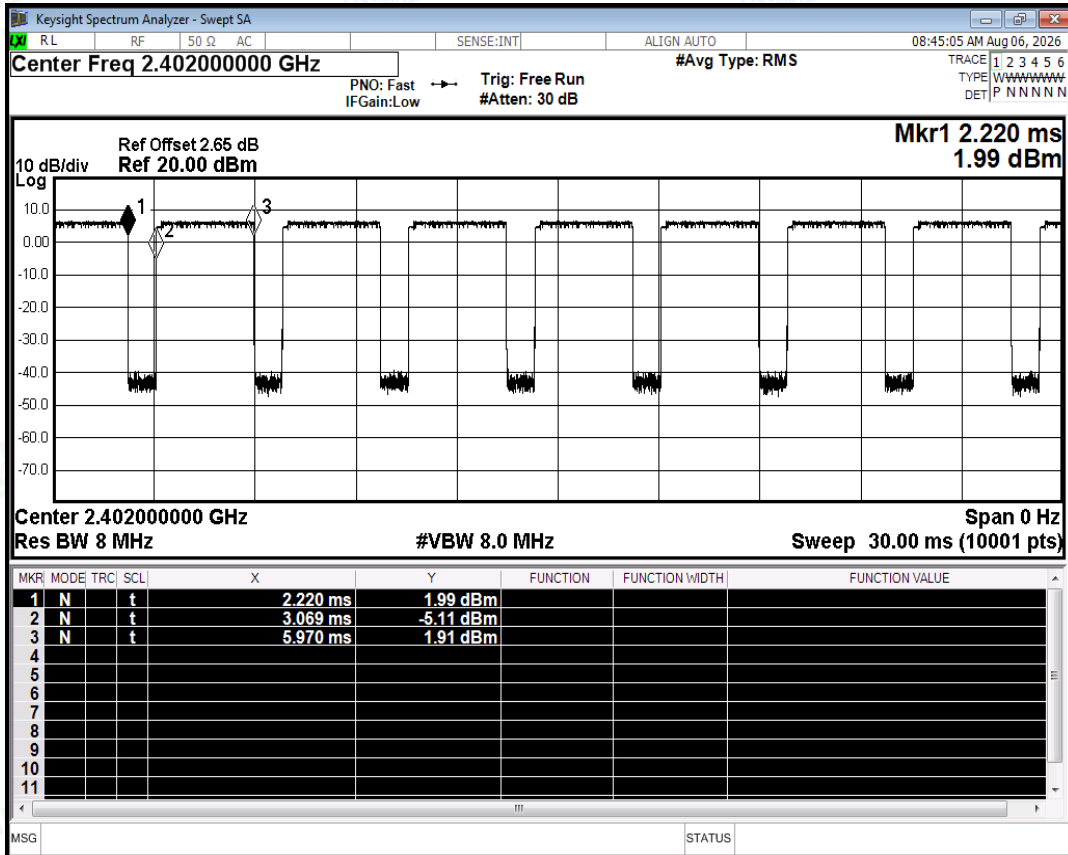
Duty Cycle NVNT 1-DH5 2402MHz Ant1



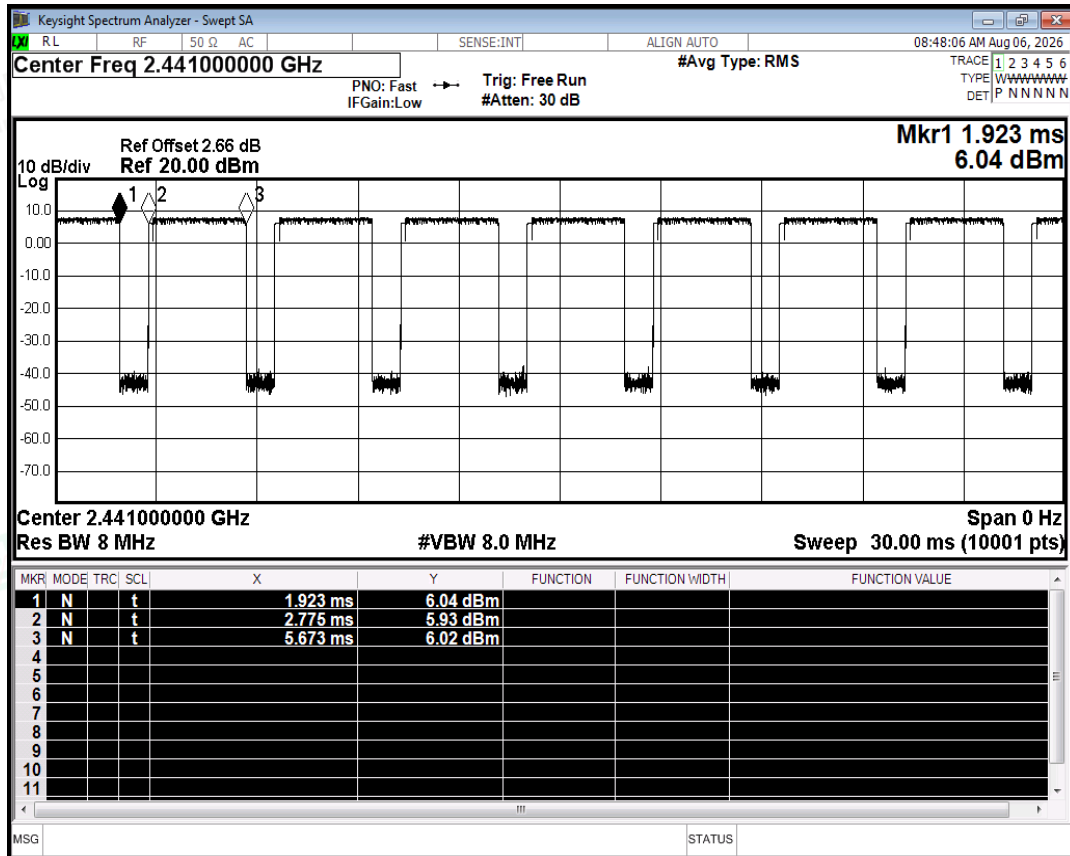
Duty Cycle NVNT 1-DH5 2441MHz Ant1



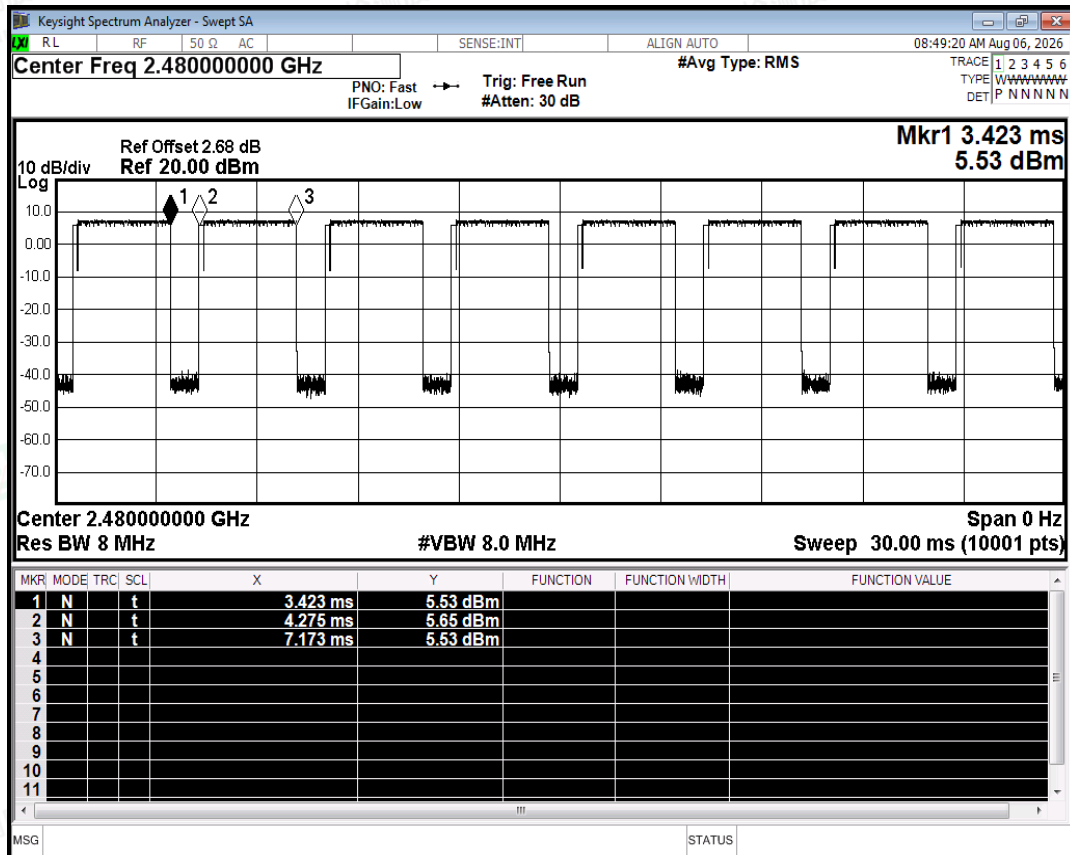
Duty Cycle NVNT 1-DH5 2480MHz Ant1



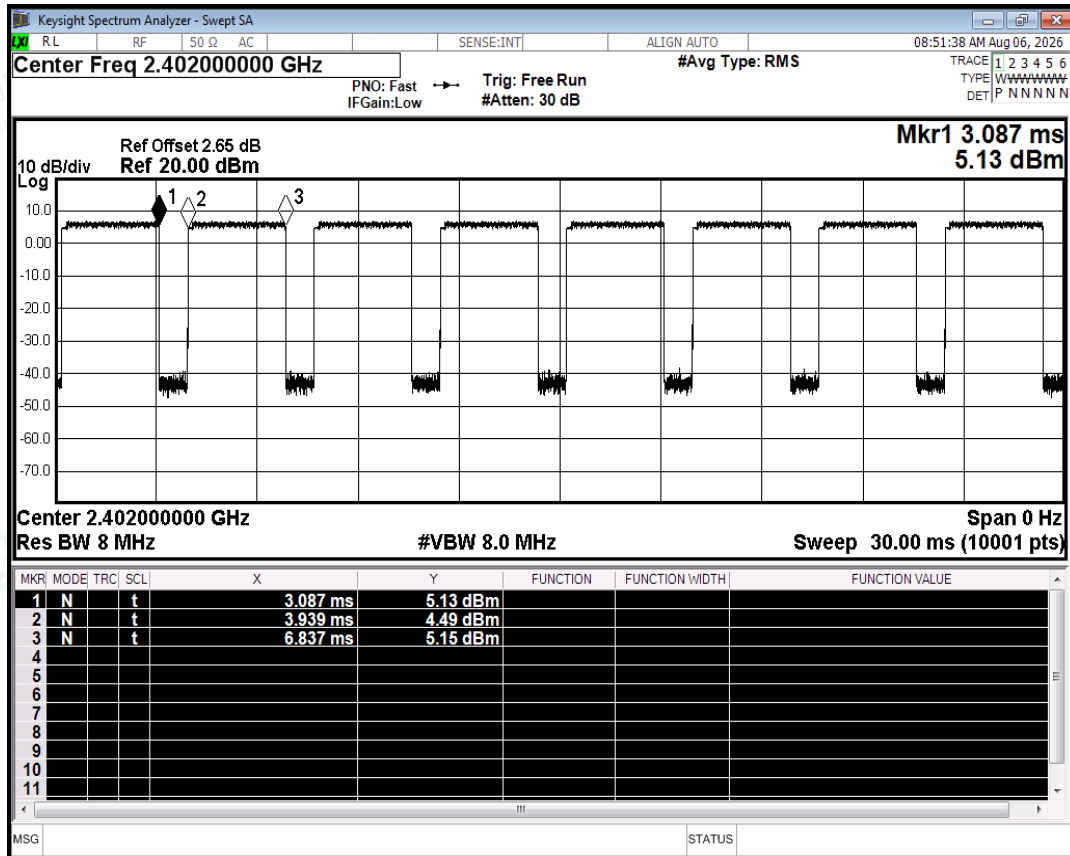
Duty Cycle NVNT 2-DH5 2402MHz Ant1



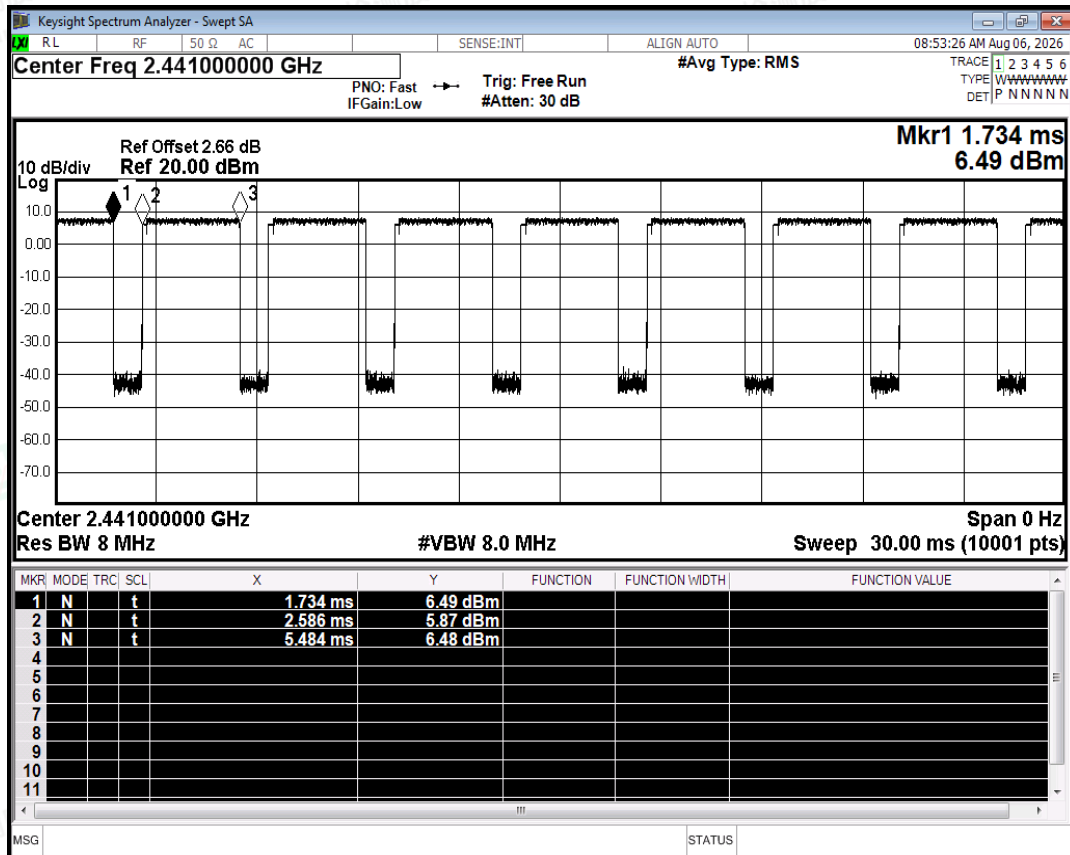
Duty Cycle NVNT 2-DH5 2441MHz Ant1



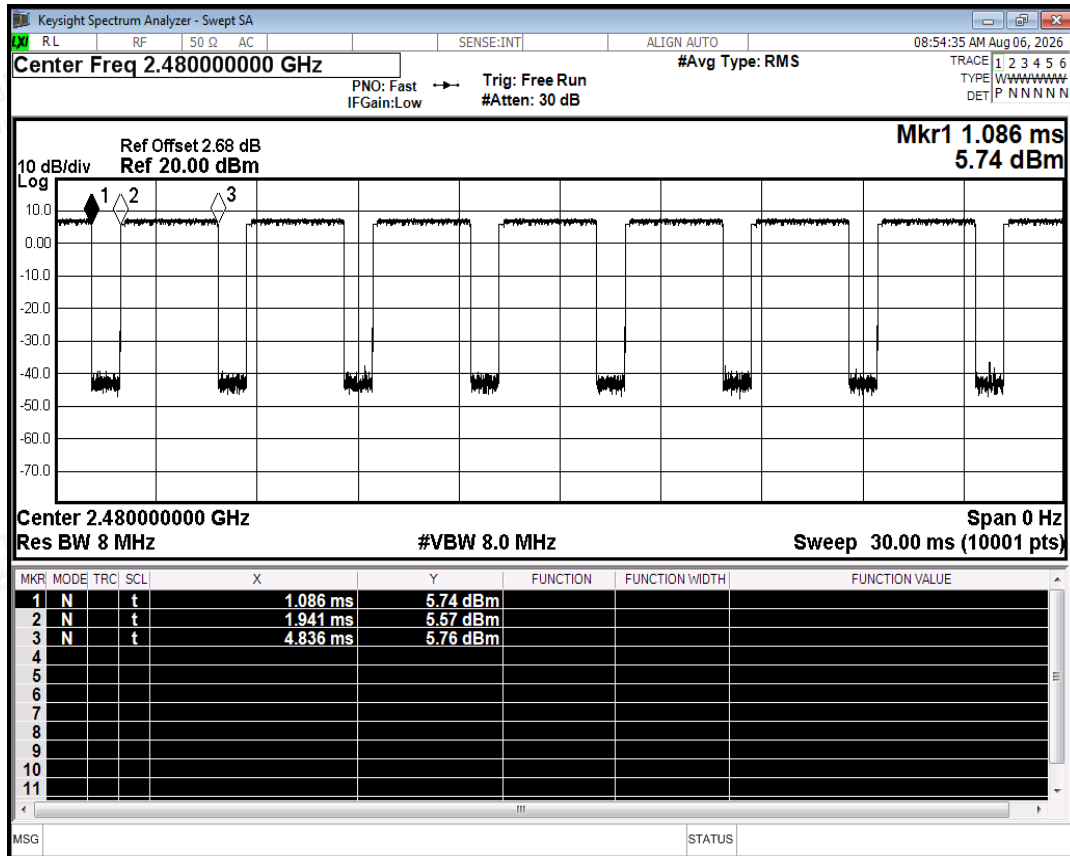
Duty Cycle NVNT 2-DH5 2480MHz Ant1



Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

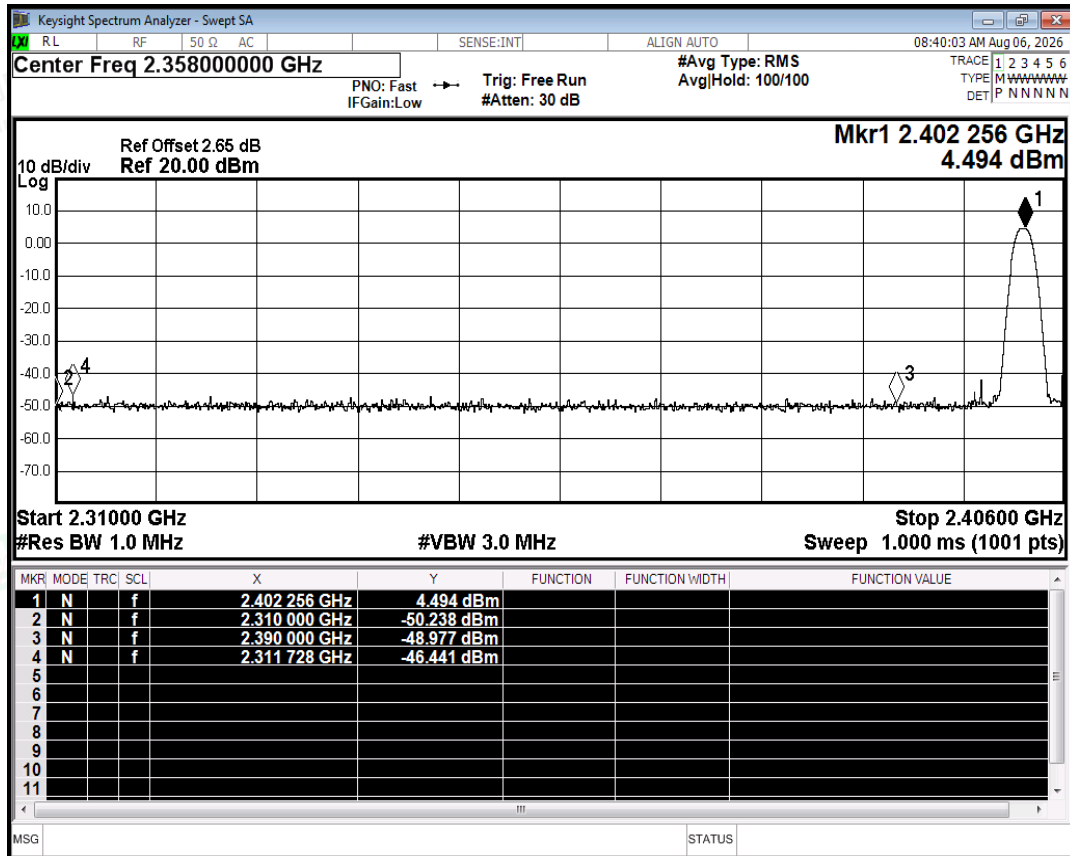


Duty Cycle NVNT 3-DH5 2480MHz Ant1

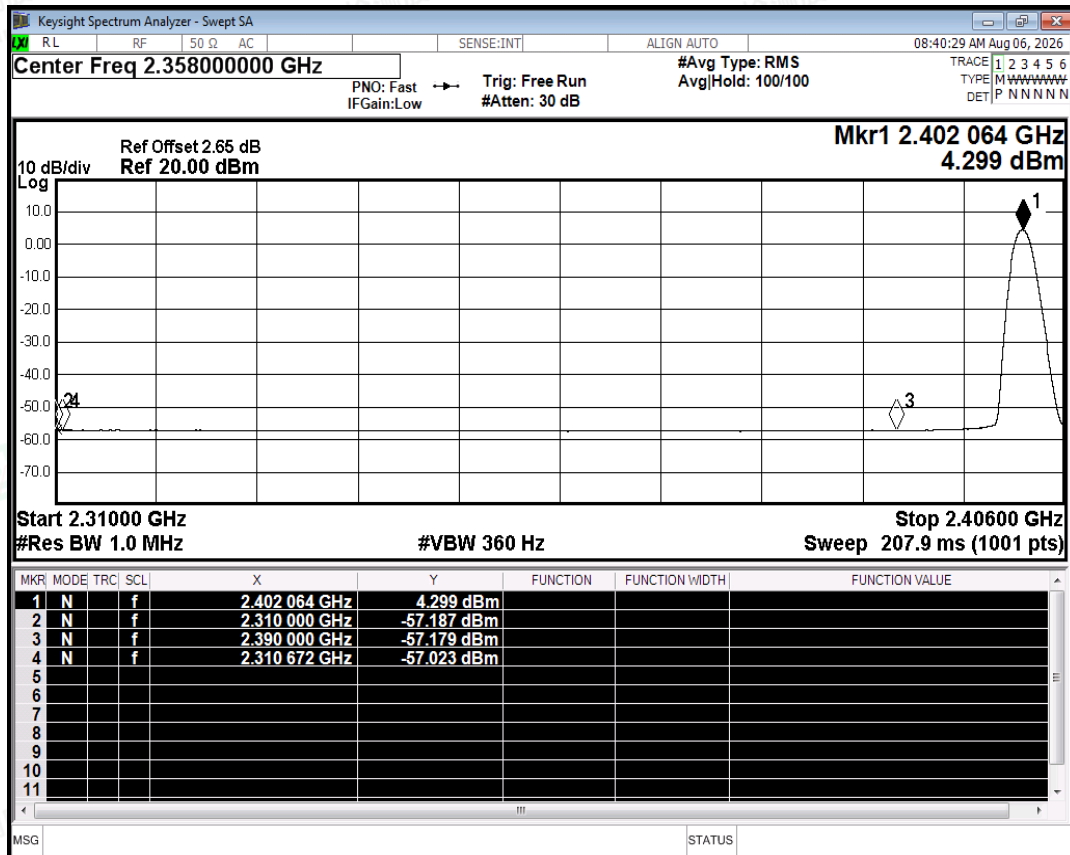


A.9 Restrict Band

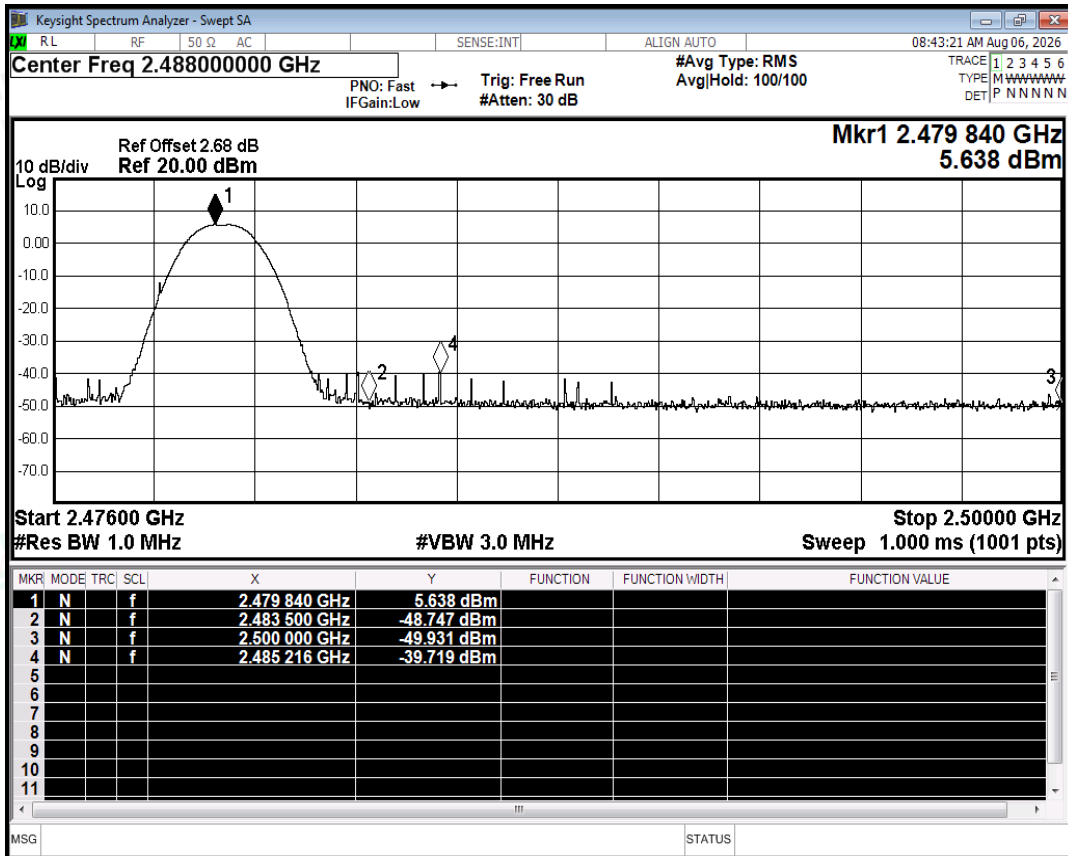
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.23	2.32	47.35	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.18	2.32	40.40	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2311.728	-46.44	2.32	51.14	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310.672	-57.02	2.32	40.56	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.1	2.32	47.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.17	2.32	40.41	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.74	2.32	48.84	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-53.11	2.32	44.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.216	-39.71	2.32	57.87	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-53.11	2.32	44.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.93	2.32	47.65	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57	2.32	40.58	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.77	2.32	46.81	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.13	2.32	40.45	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2318.736	-46.46	2.32	51.12	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2311.248	-56.96	2.32	40.62	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.7	2.32	47.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.17	2.32	40.41	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-43	2.32	54.58	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.3	2.32	48.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.704	-39.61	2.32	57.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-49.3	2.32	48.28	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.2	2.32	48.38	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.93	2.32	40.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.04	2.32	47.54	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.12	2.32	40.46	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2319.696	-47.29	2.32	50.29	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2317.68	-56.9	2.32	40.68	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.41	2.32	46.17	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.15	2.32	40.43	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-38.69	2.32	58.89	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.83	2.32	48.75	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-38.69	2.32	58.89	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-48.83	2.32	48.75	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.93	2.32	47.65	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.02	2.32	40.56	Average	54	Pass



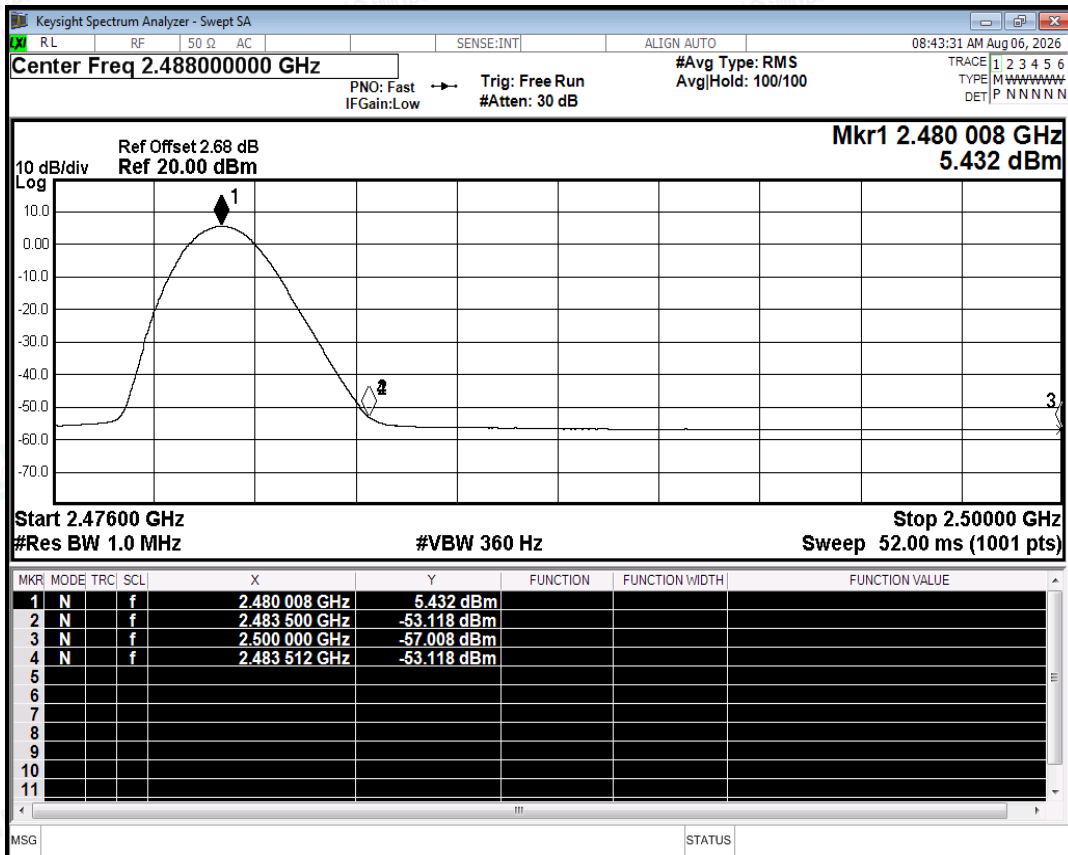
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



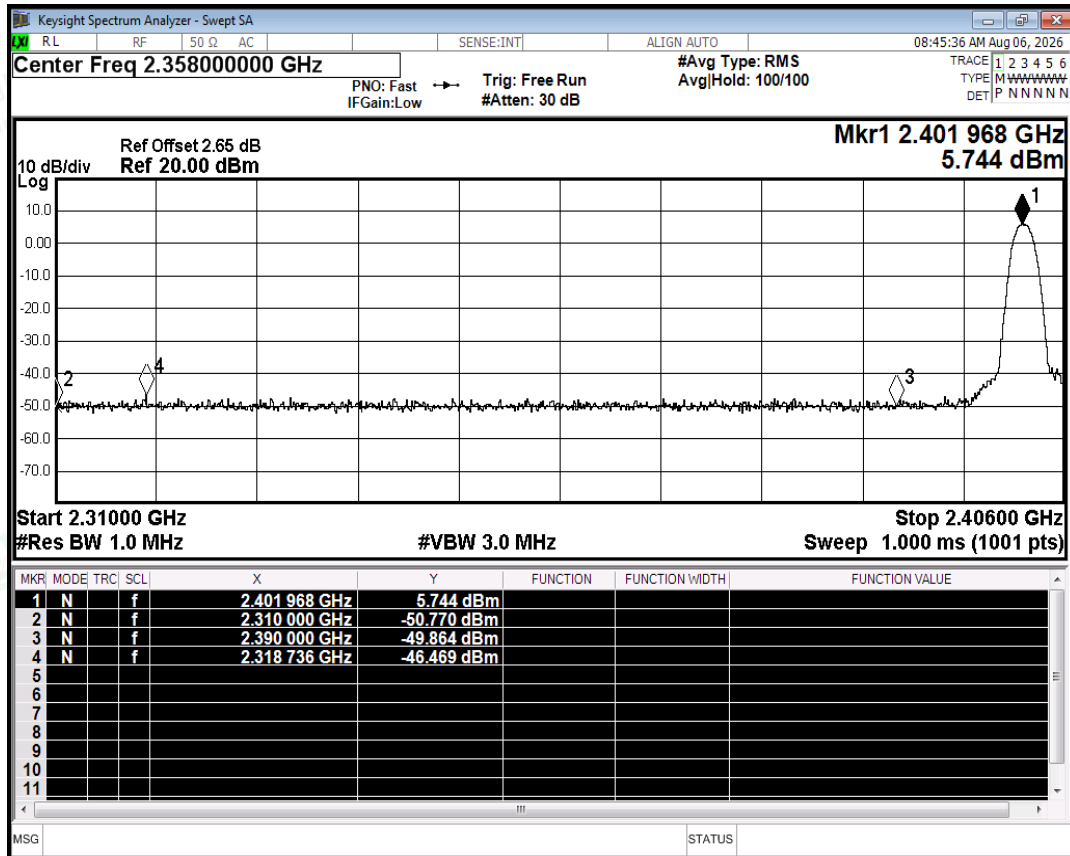
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



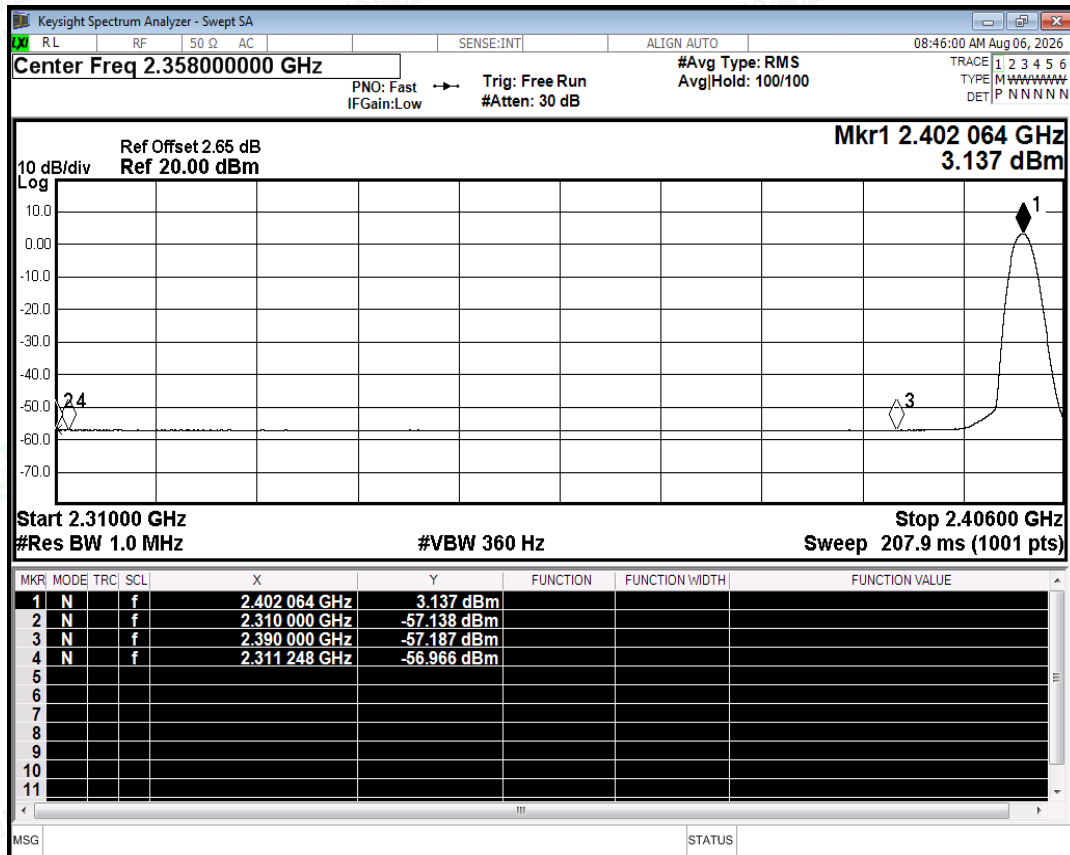
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



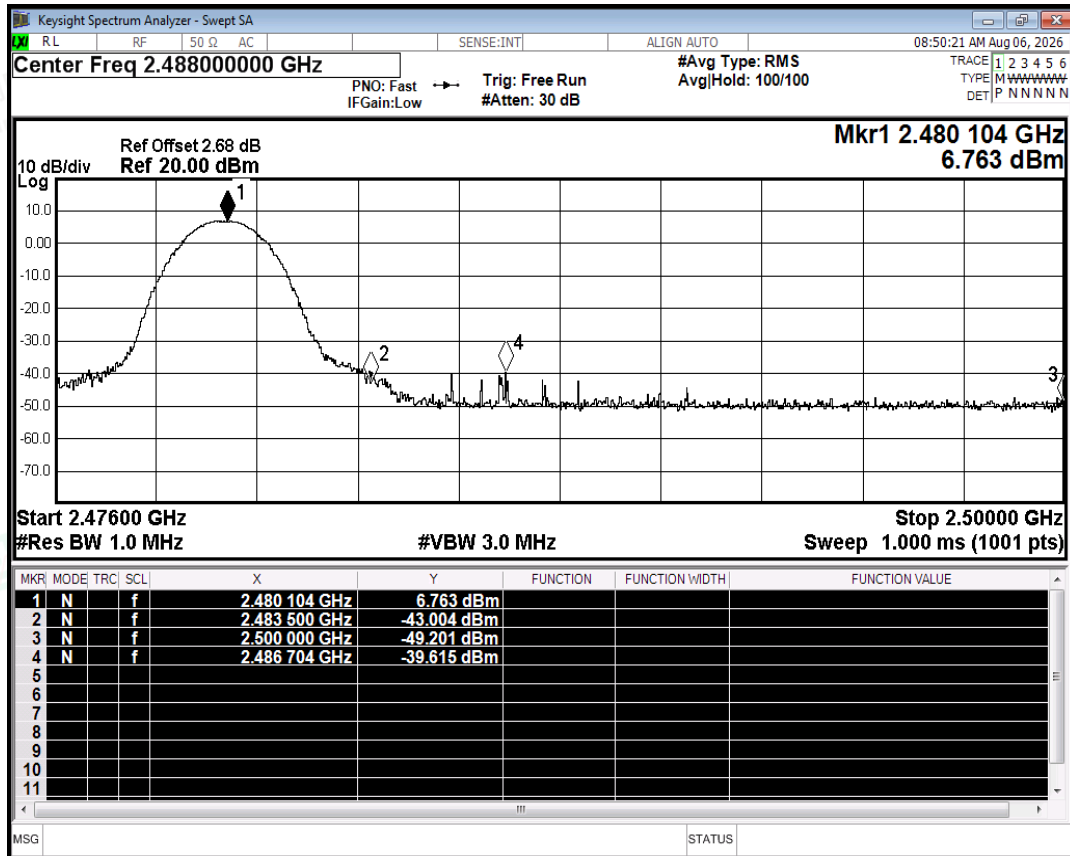
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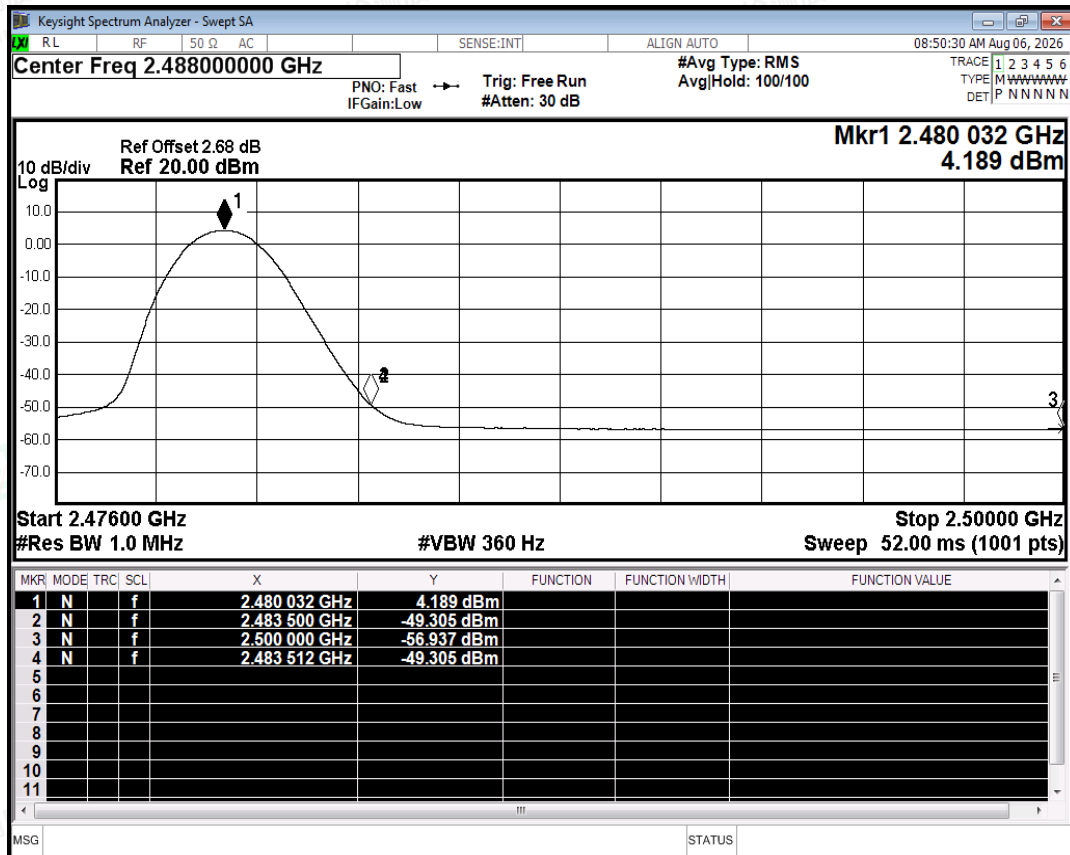
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



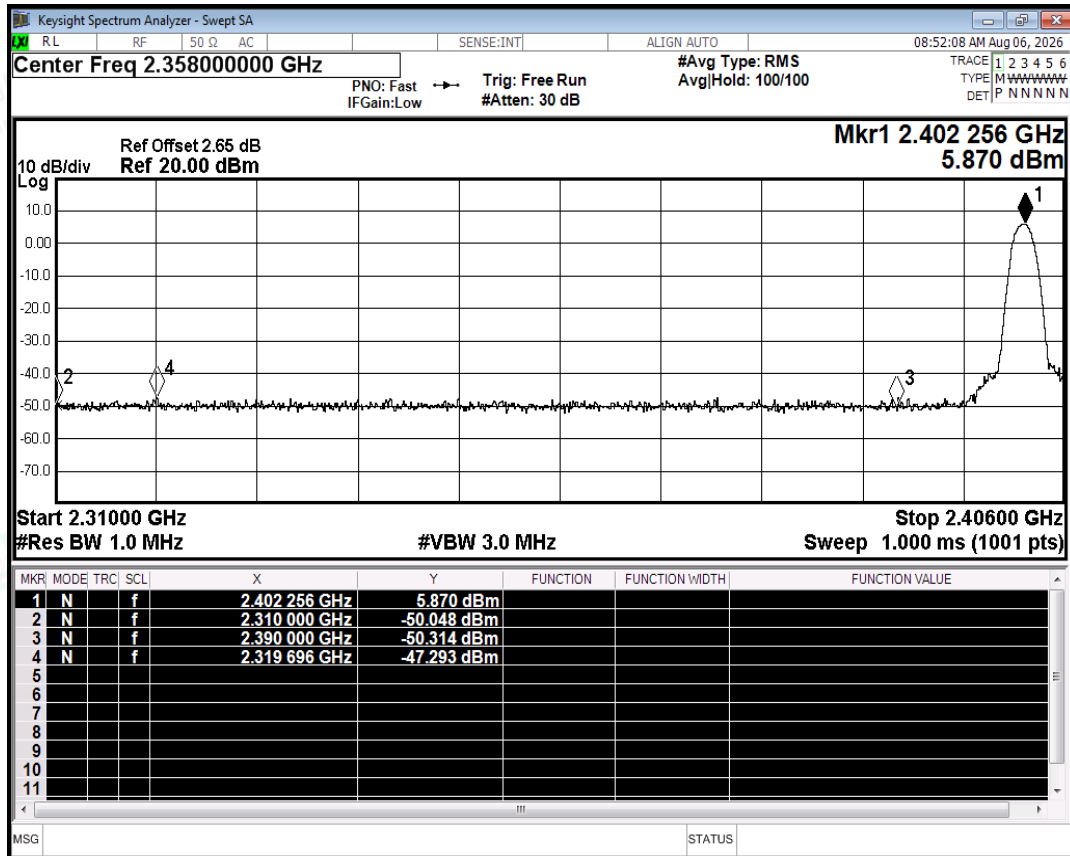
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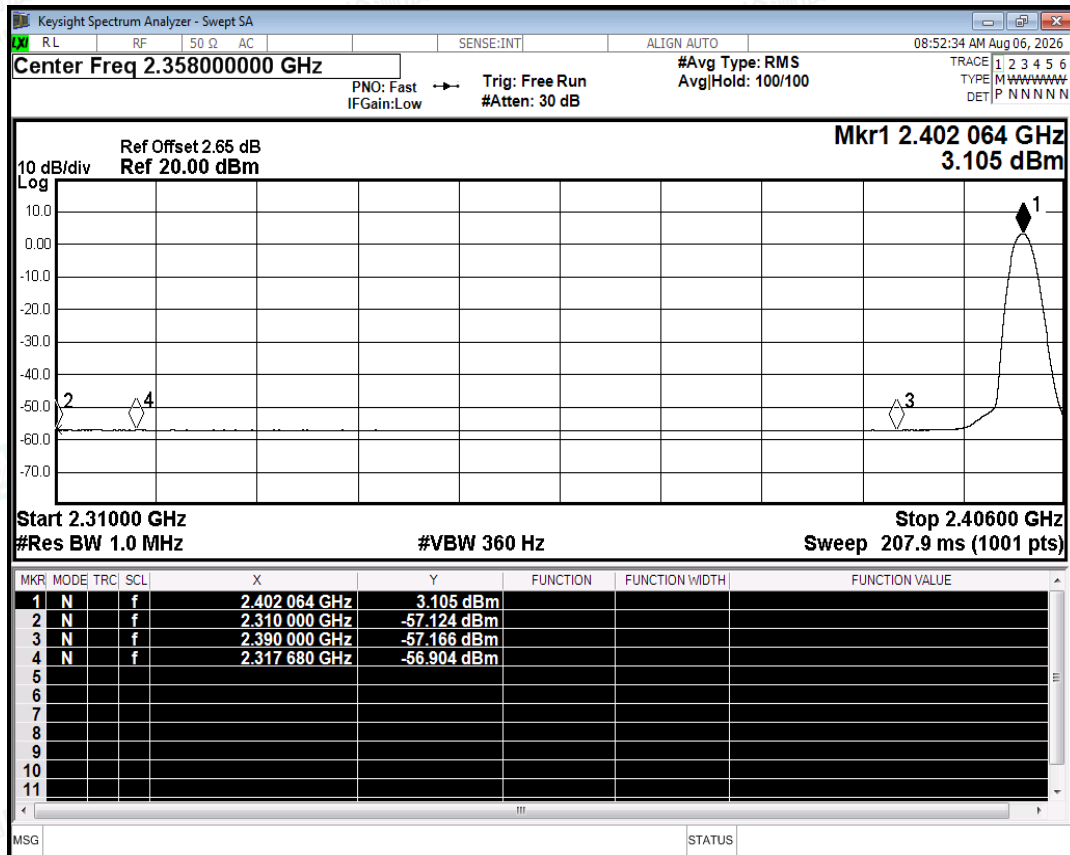
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



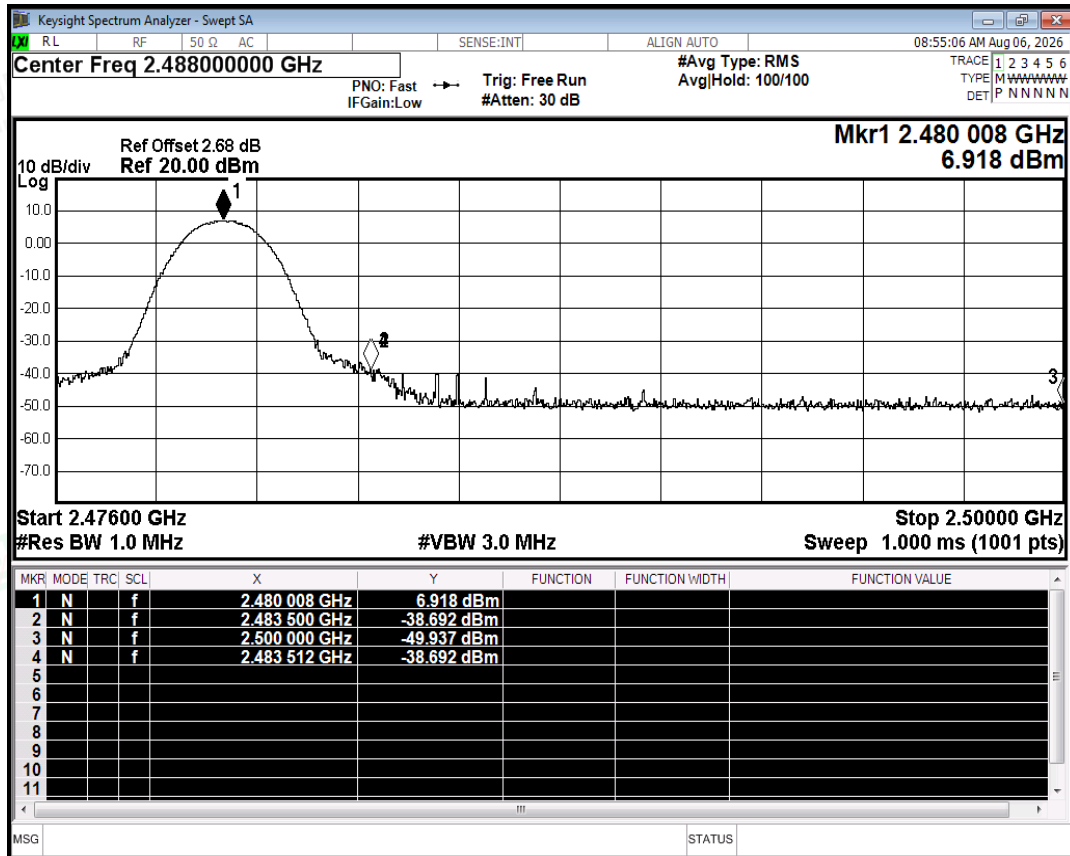
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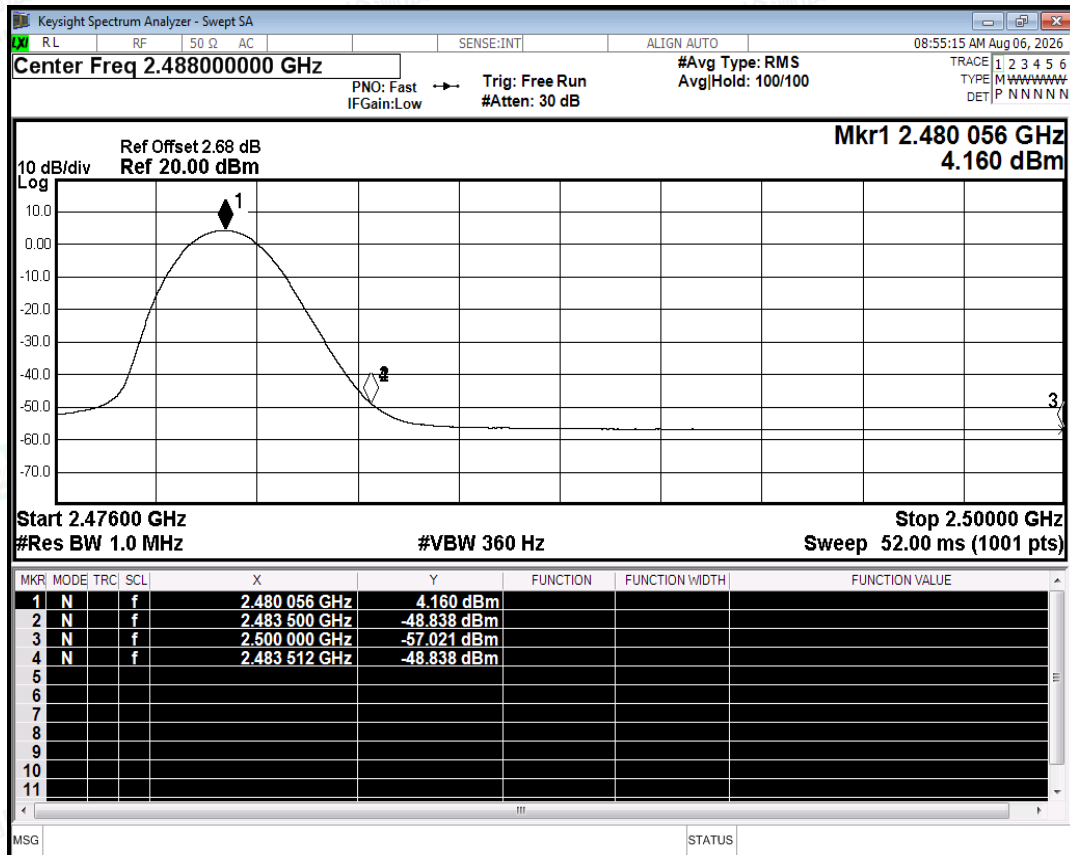
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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