

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Android All-in-one Panel PC

Test Model: TPC070-A410

Environmental Conditions

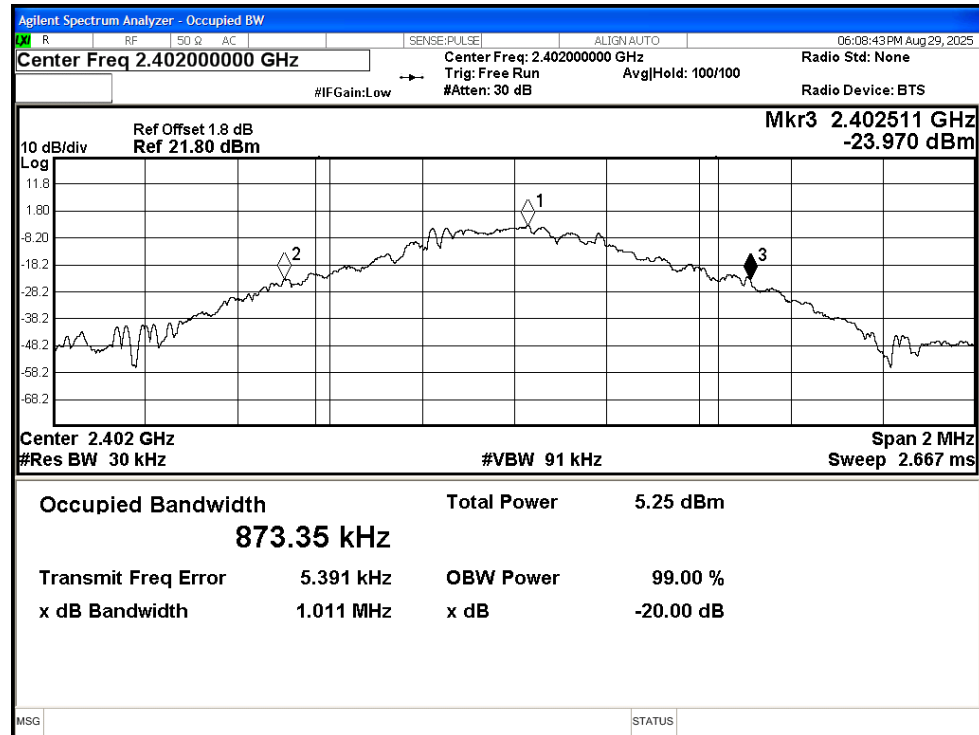
Temperature:	23.8°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

A.1 -20dB Bandwidth

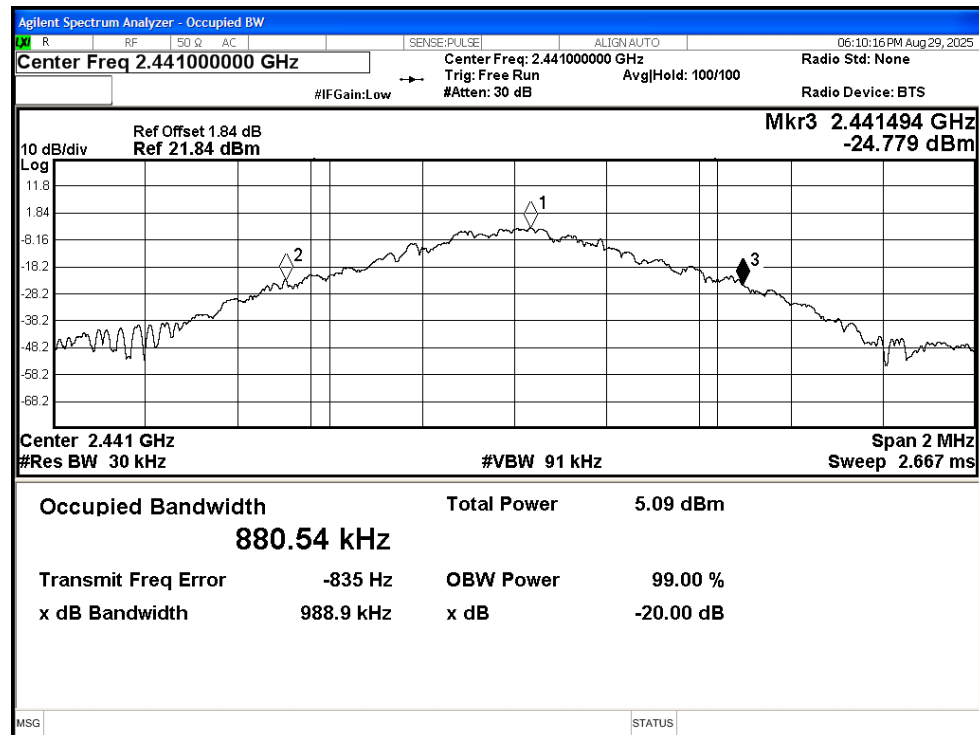
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.011	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.989	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.988	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.279	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.301	N/A	Pass

Test Graphs

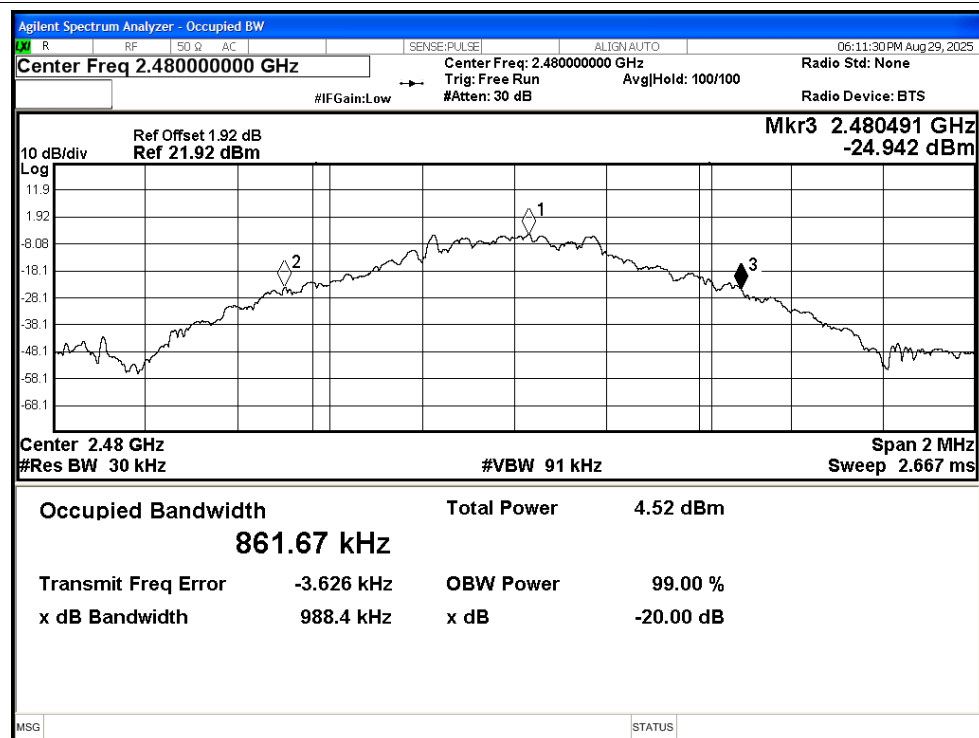
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



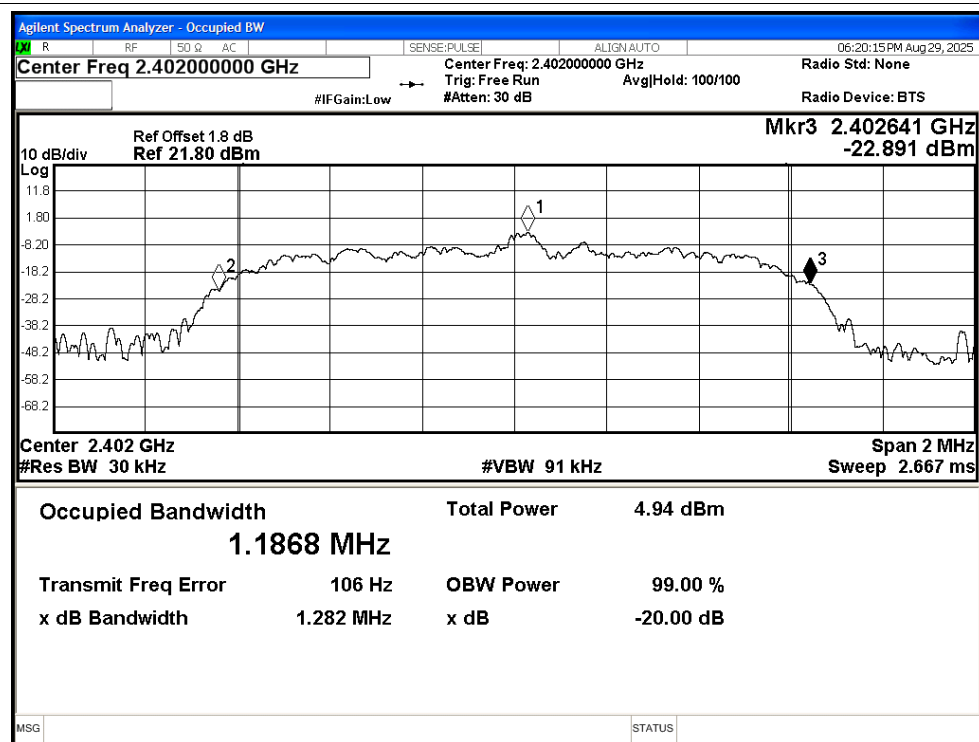
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



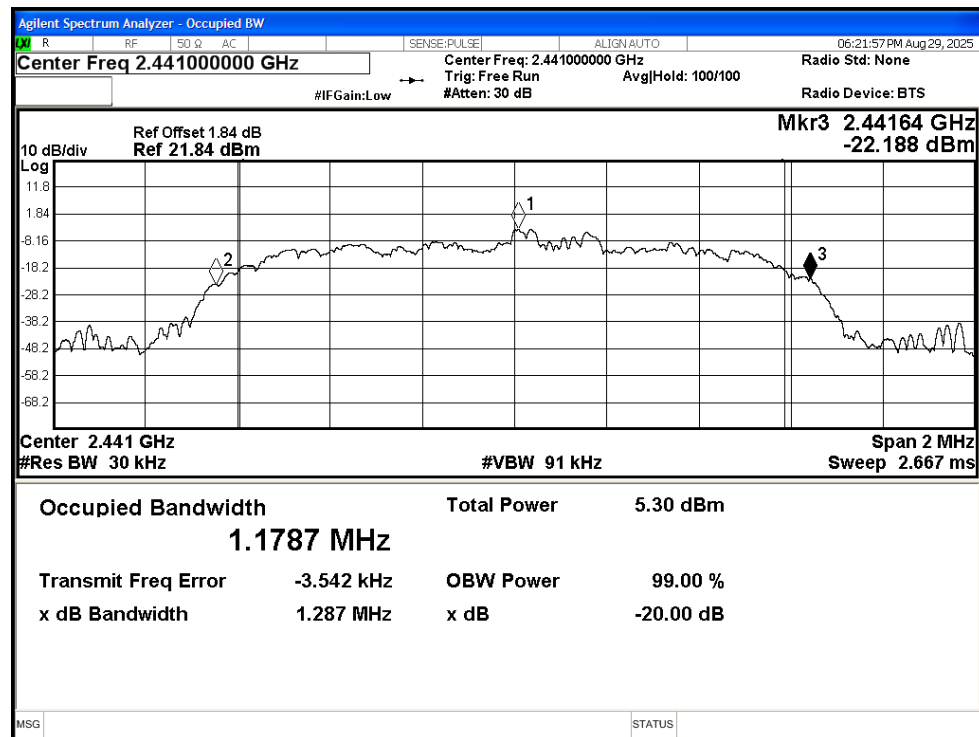
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



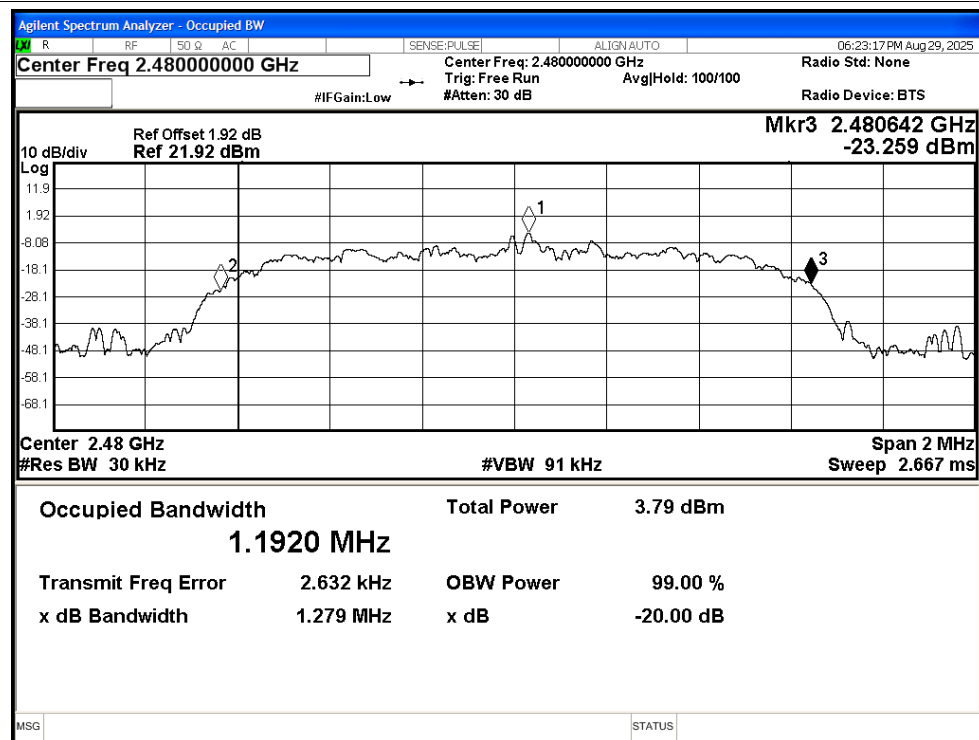
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



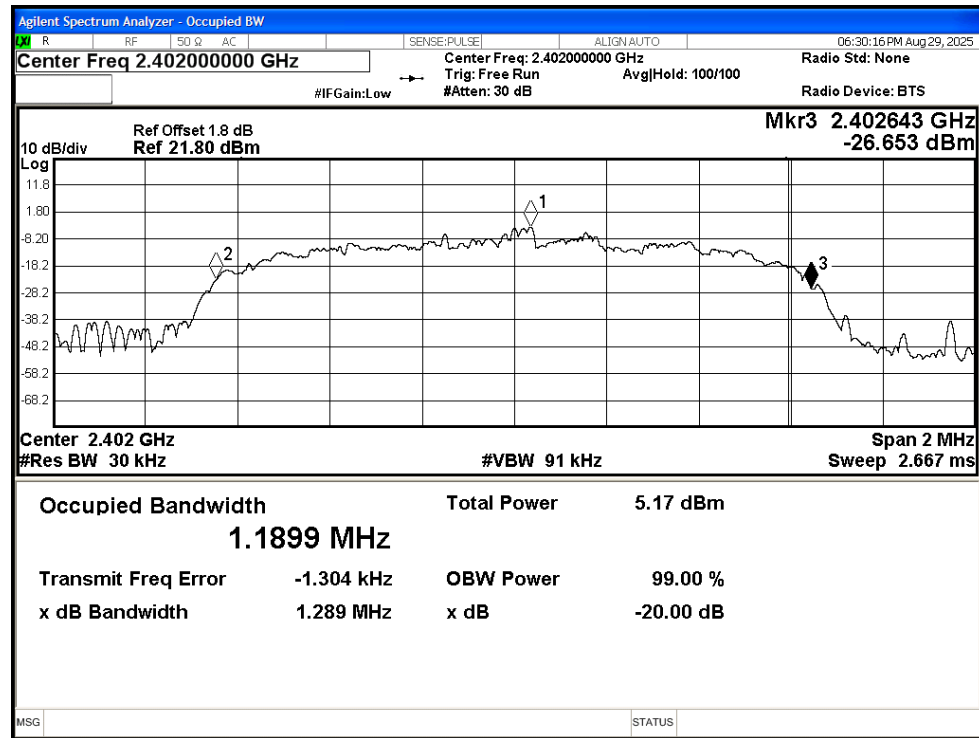
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



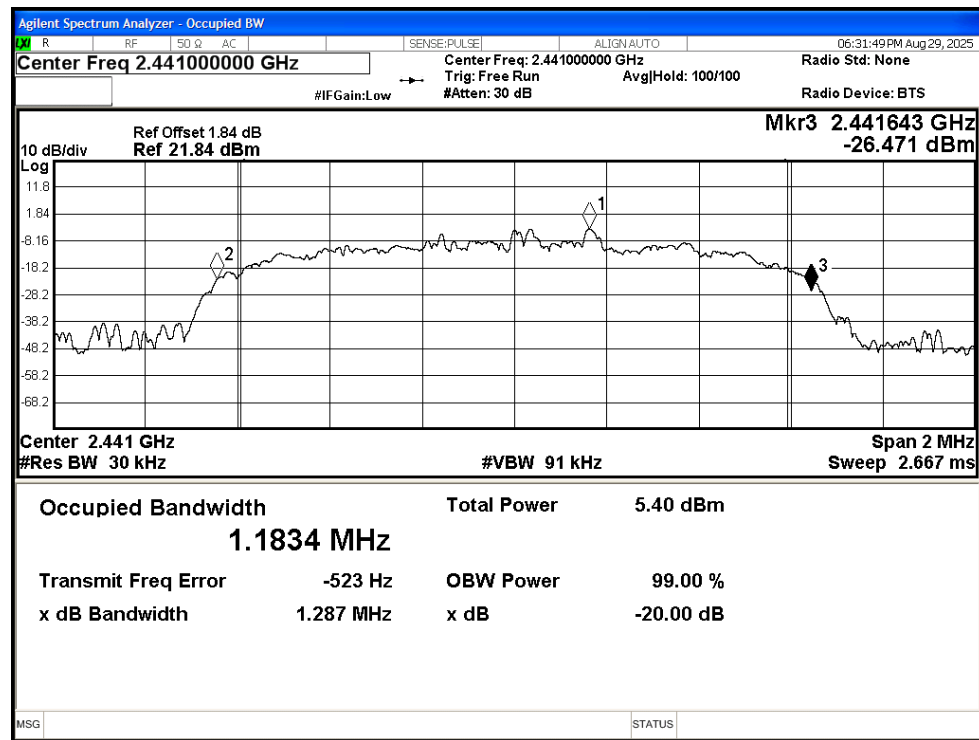
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

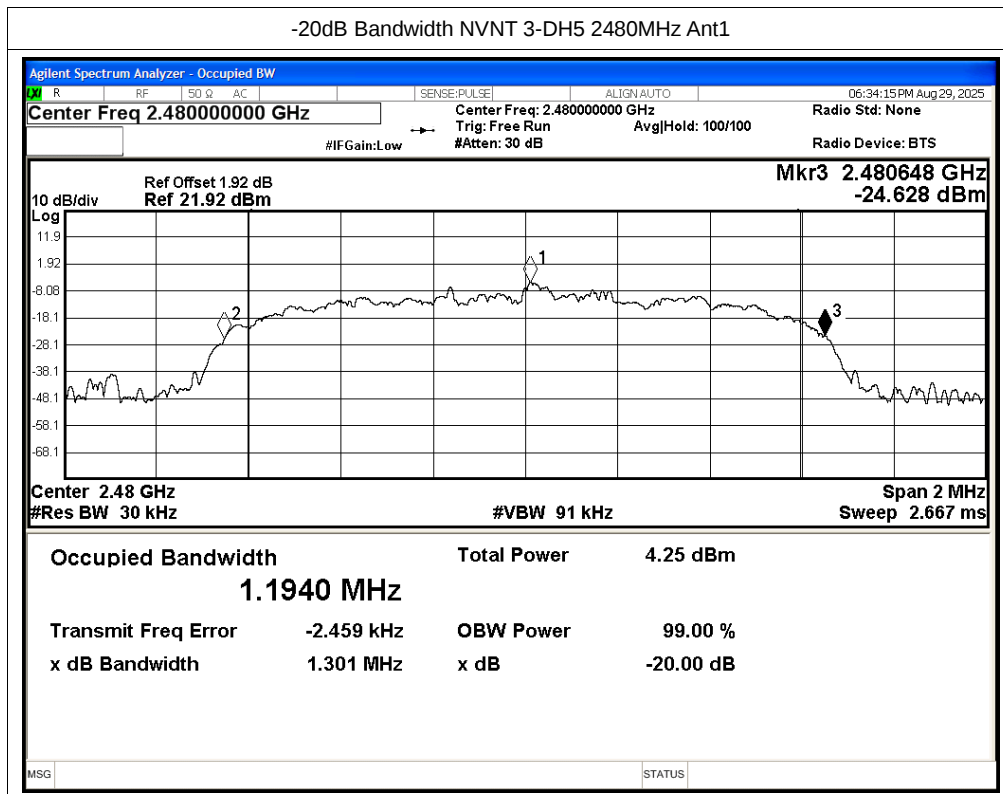


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



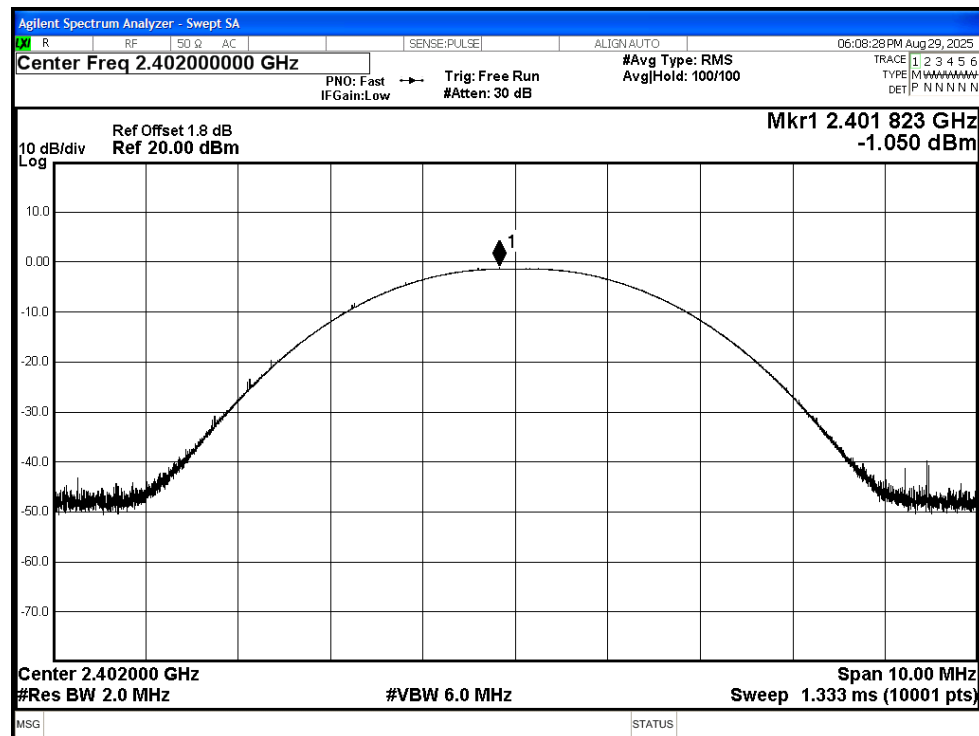


A.2 Maximum Peak Conducted Output Power

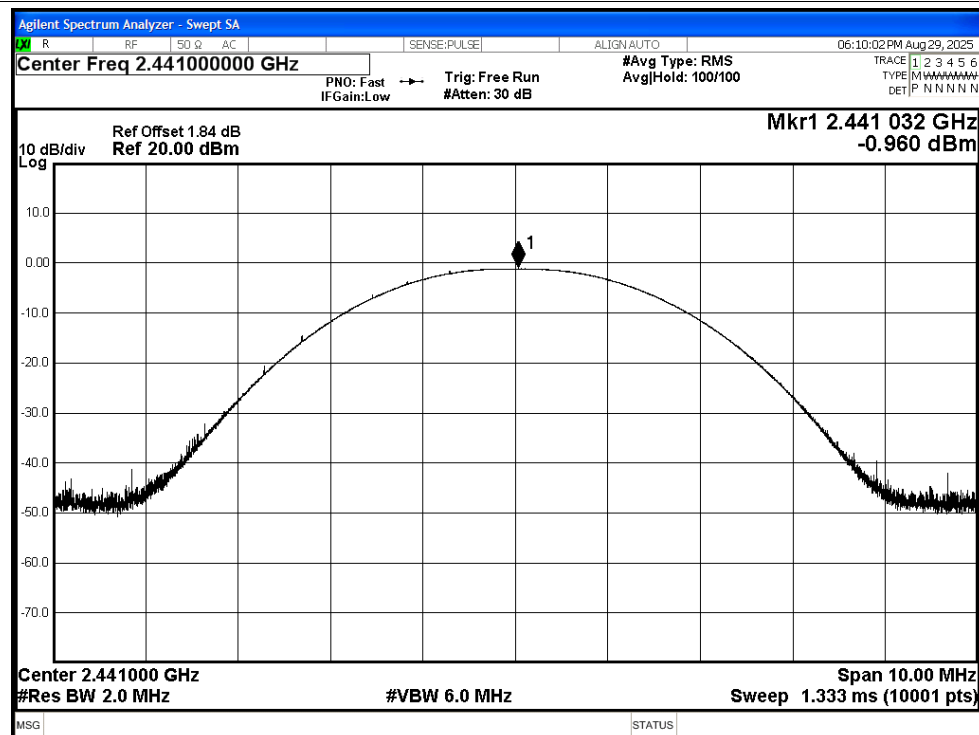
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.05	21	Pass
NVNT	1-DH5	2441	Ant1	-0.96	21	Pass
NVNT	1-DH5	2480	Ant1	-1.86	21	Pass
NVNT	2-DH5	2402	Ant1	0.61	21	Pass
NVNT	2-DH5	2441	Ant1	0.83	21	Pass
NVNT	2-DH5	2480	Ant1	-0.23	21	Pass
NVNT	3-DH5	2402	Ant1	1.05	21	Pass
NVNT	3-DH5	2441	Ant1	1.26	21	Pass
NVNT	3-DH5	2480	Ant1	0.21	21	Pass

Test Graphs

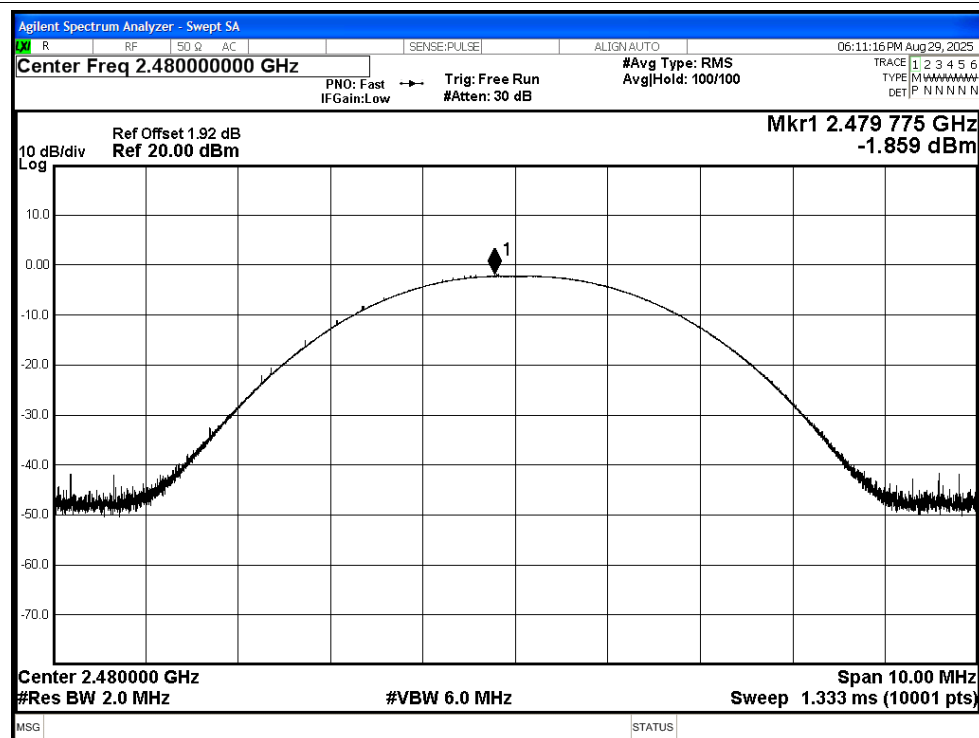
Power NVNT 1-DH5 2402MHz Ant1



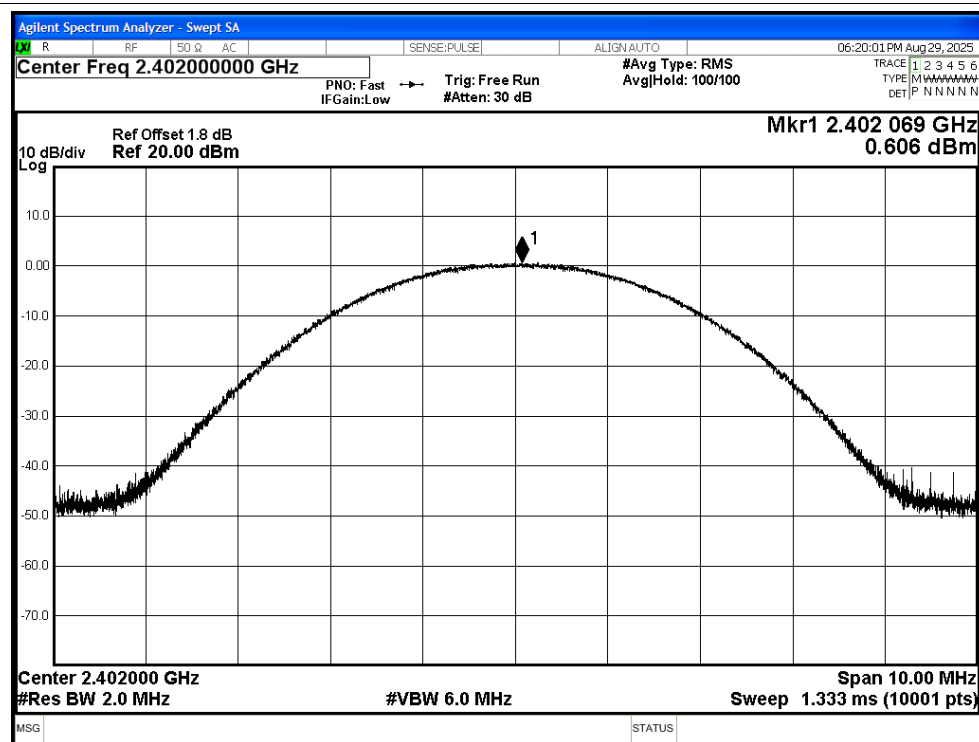
Power NVNT 1-DH5 2441MHz Ant1



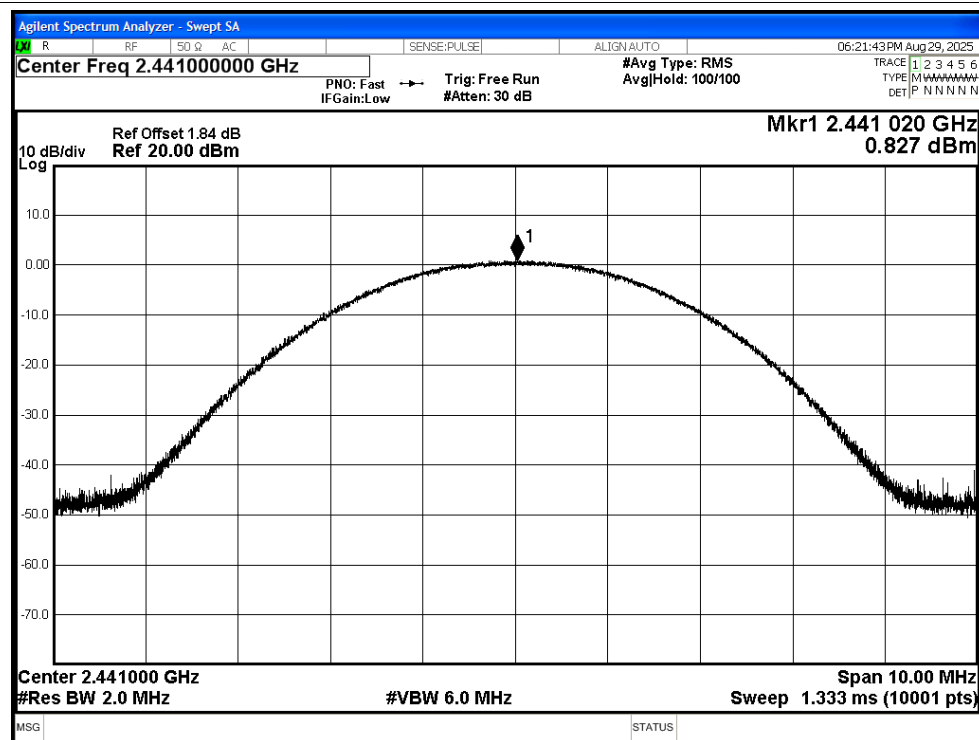
Power NVNT 1-DH5 2480MHz Ant1



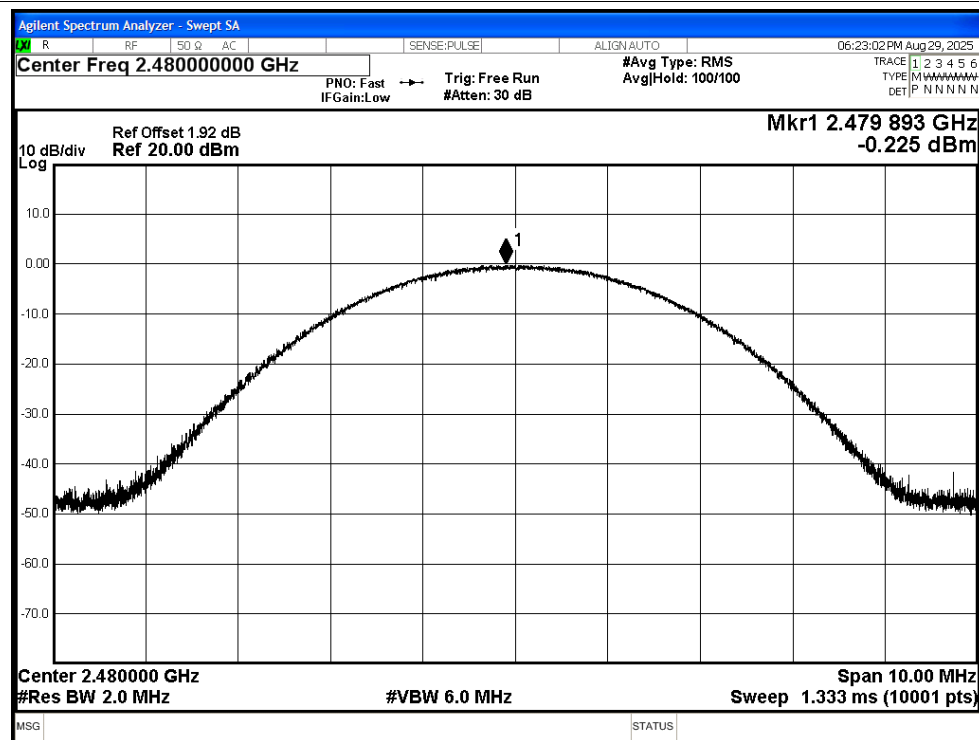
Power NVNT 2-DH5 2402MHz Ant1



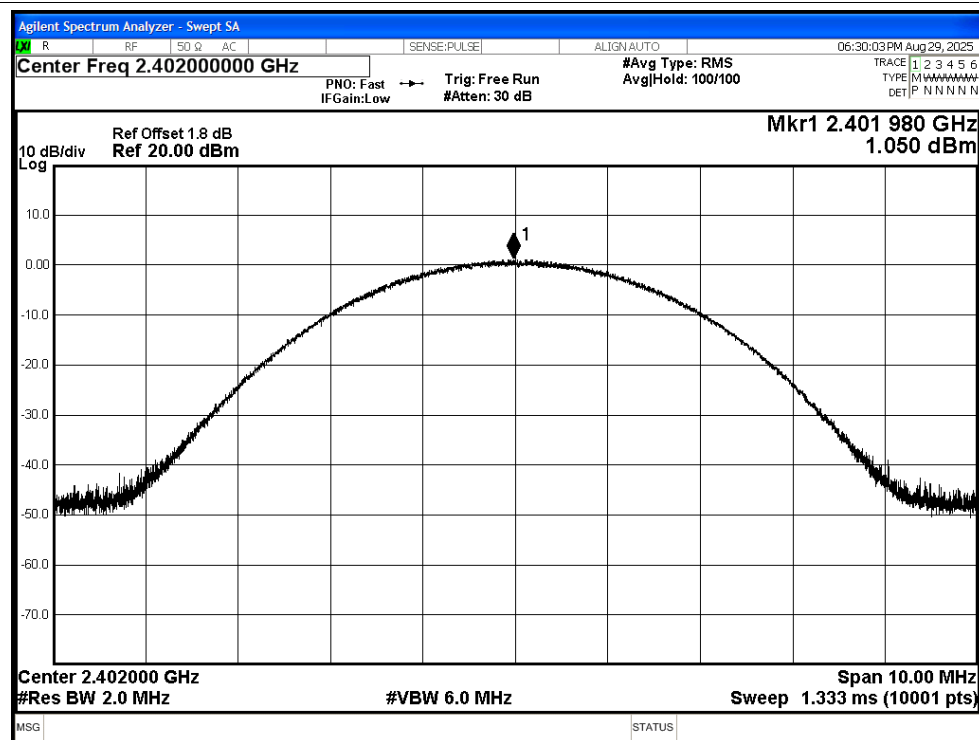
Power NVNT 2-DH5 2441MHz Ant1



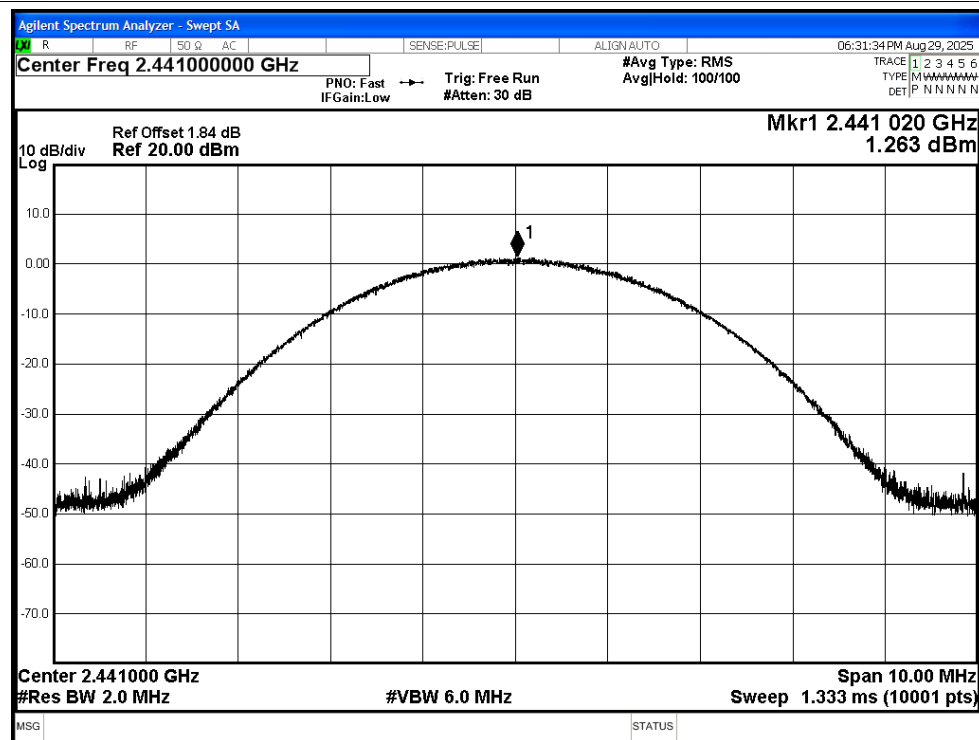
Power NVNT 2-DH5 2480MHz Ant1

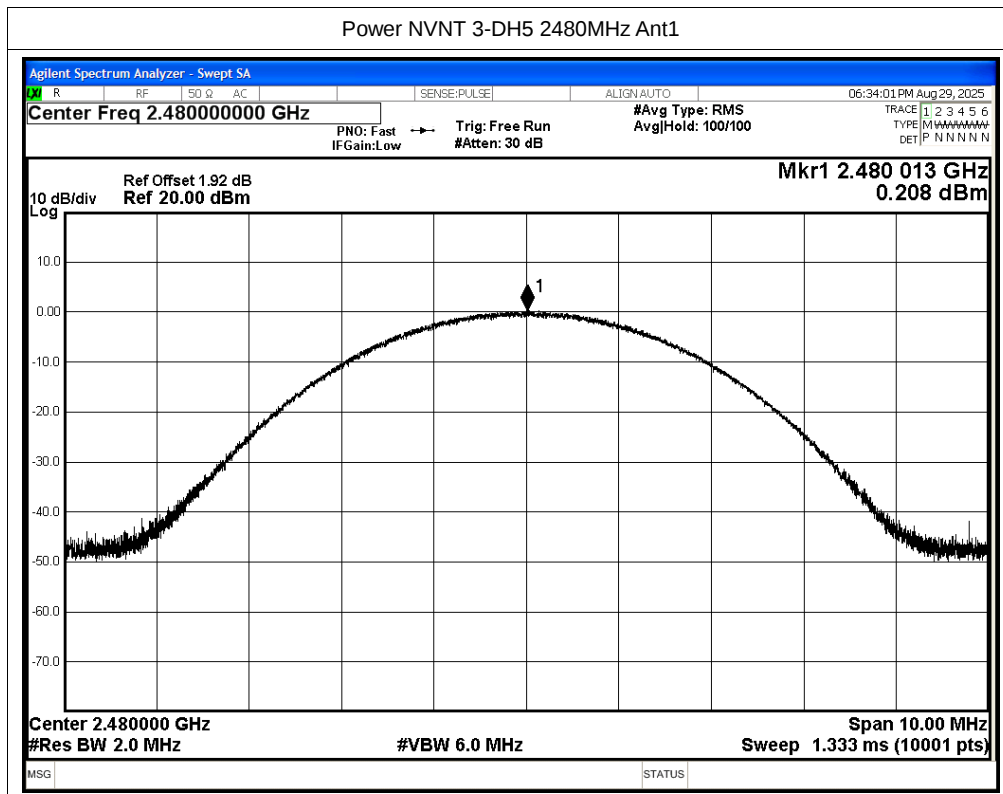


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



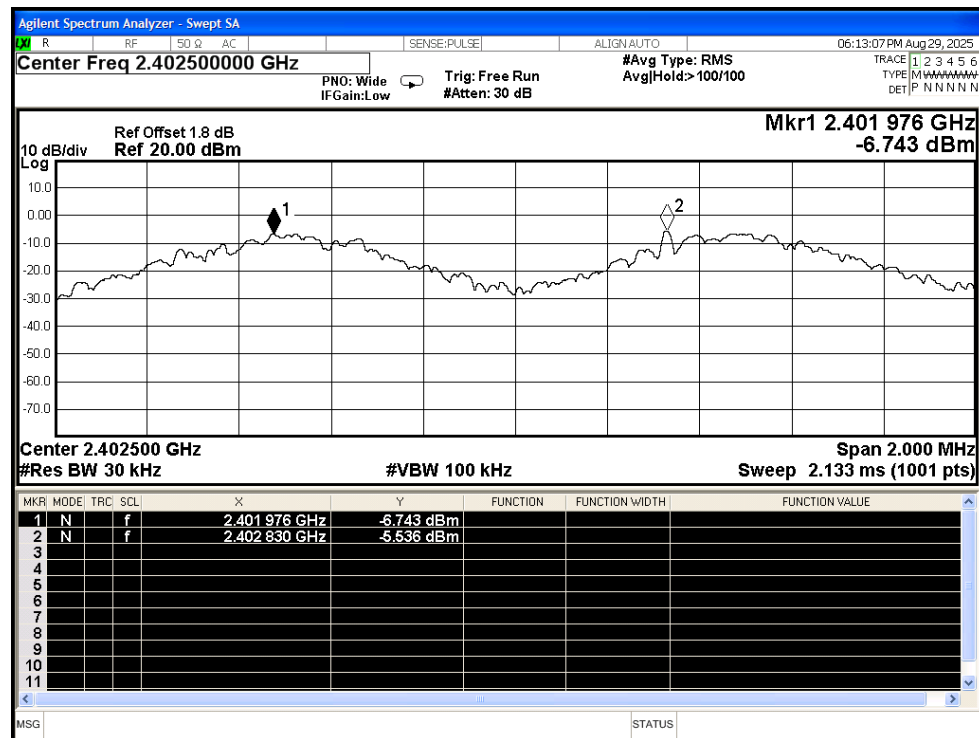


A.3 Carrier Frequencies Separation

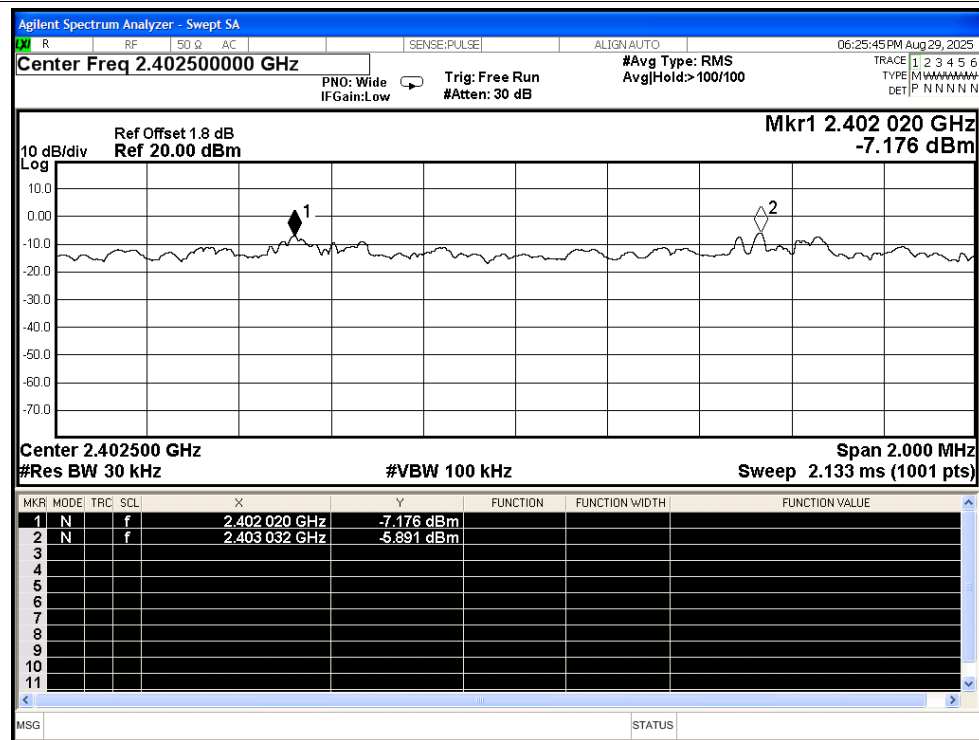
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.976	2402.83	0.854	0.674	Pass
NVNT	2-DH5	Ant1	2402.02	2403.032	1.012	0.855	Pass
NVNT	3-DH5	Ant1	2402.022	2403.162	1.14	0.859	Pass

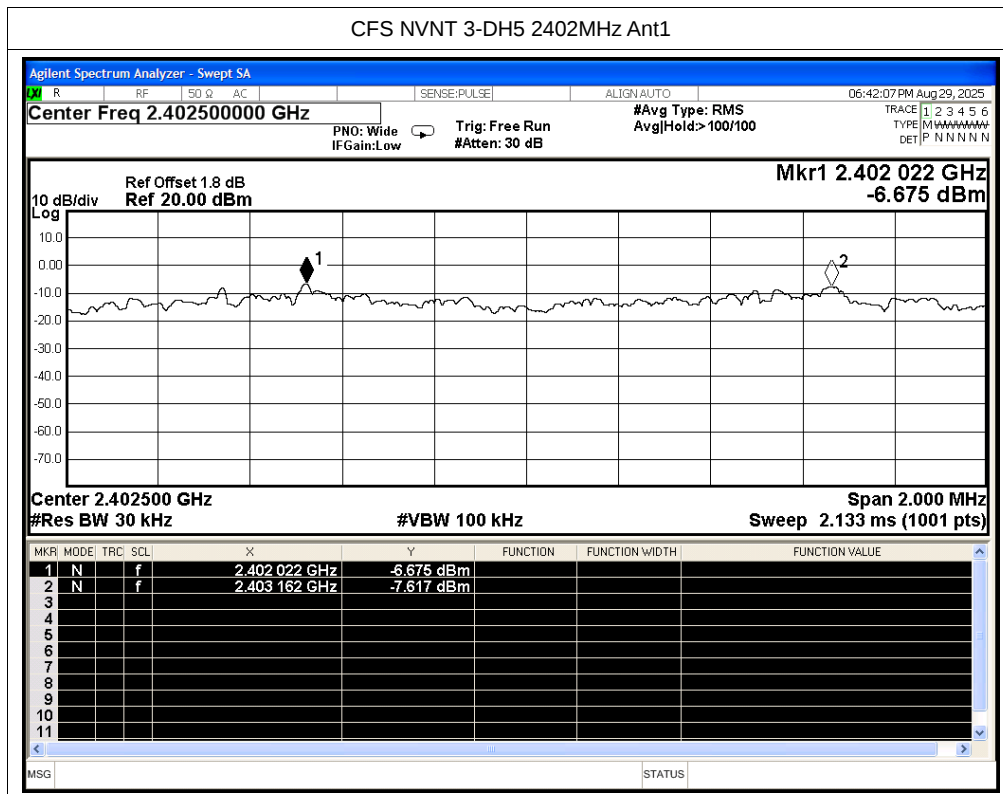
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



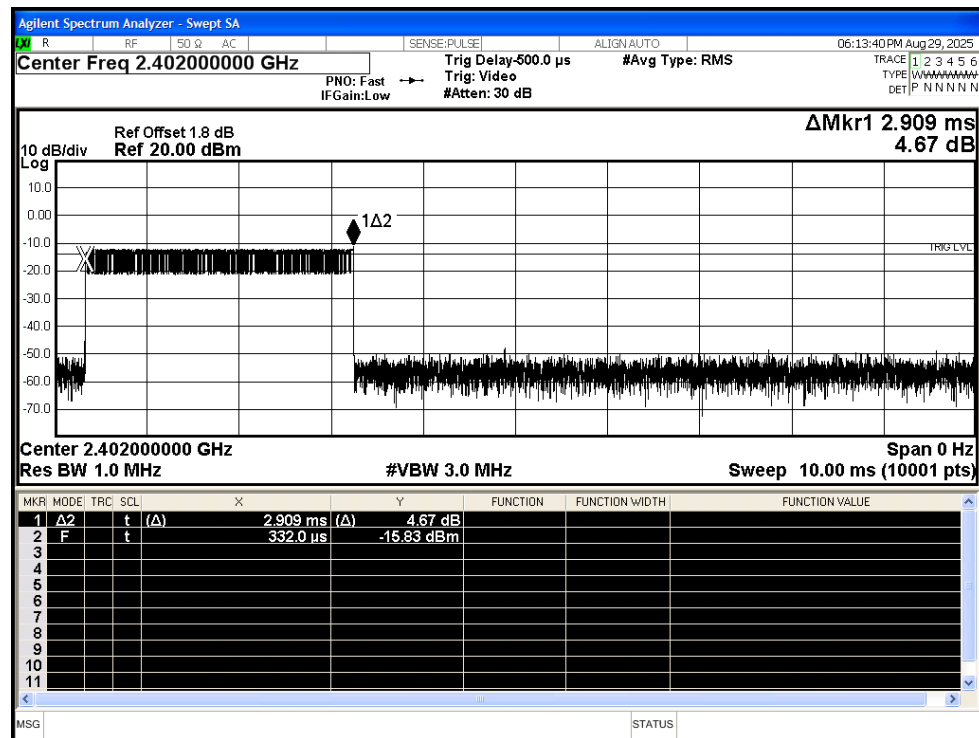


A.4 Dwell Time

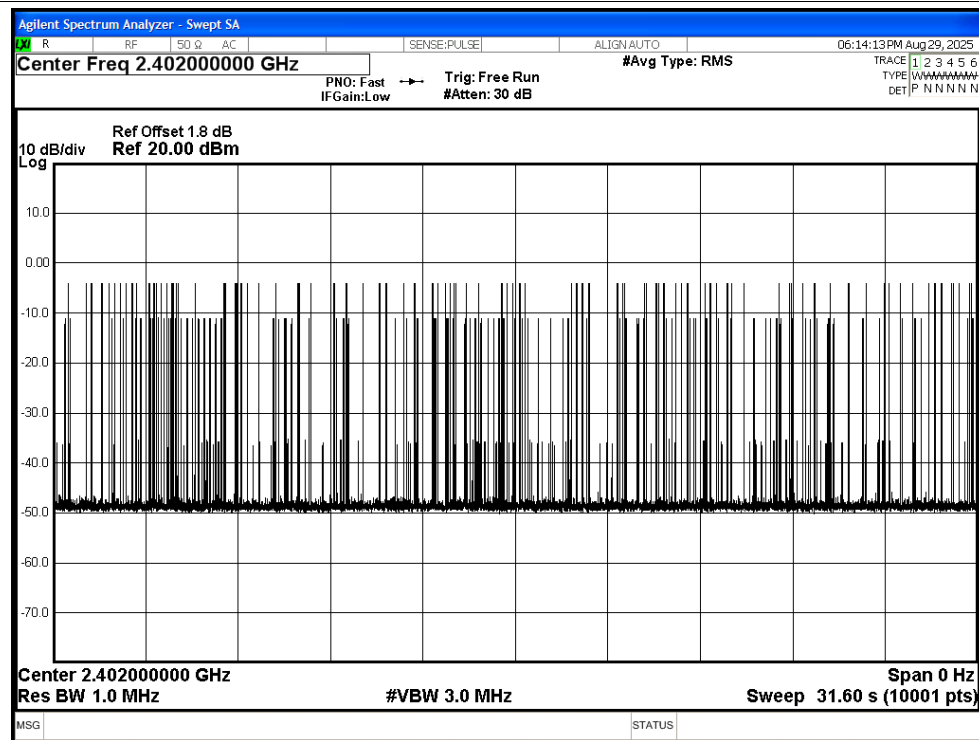
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	308.354	106	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.899	292.799	101	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	278.112	96	31600	400	Pass

Test Graphs

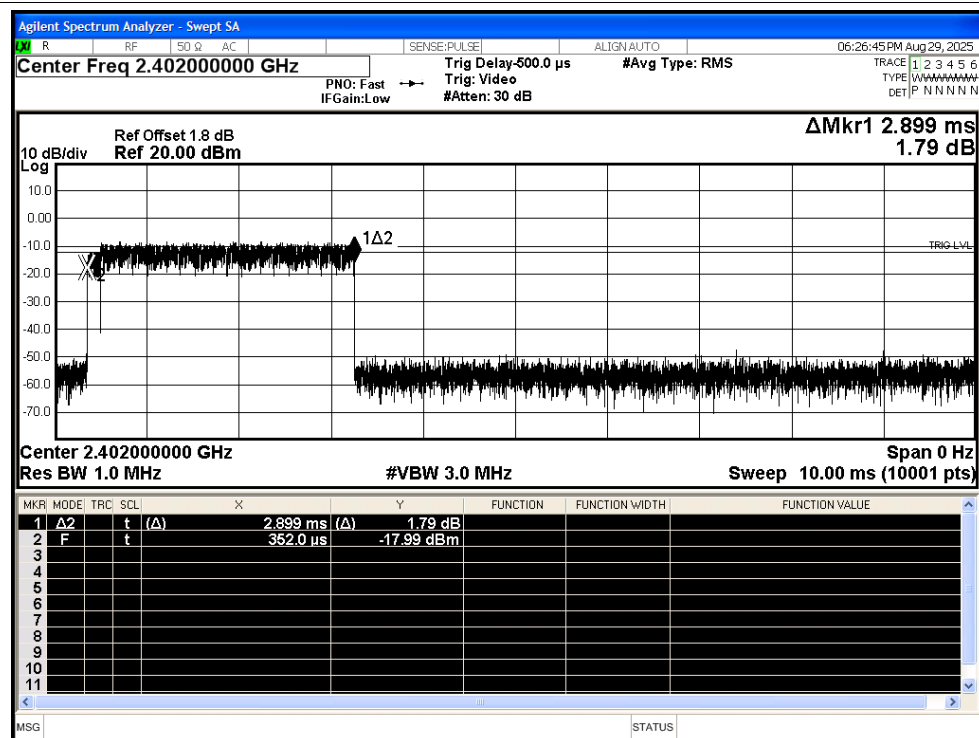
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



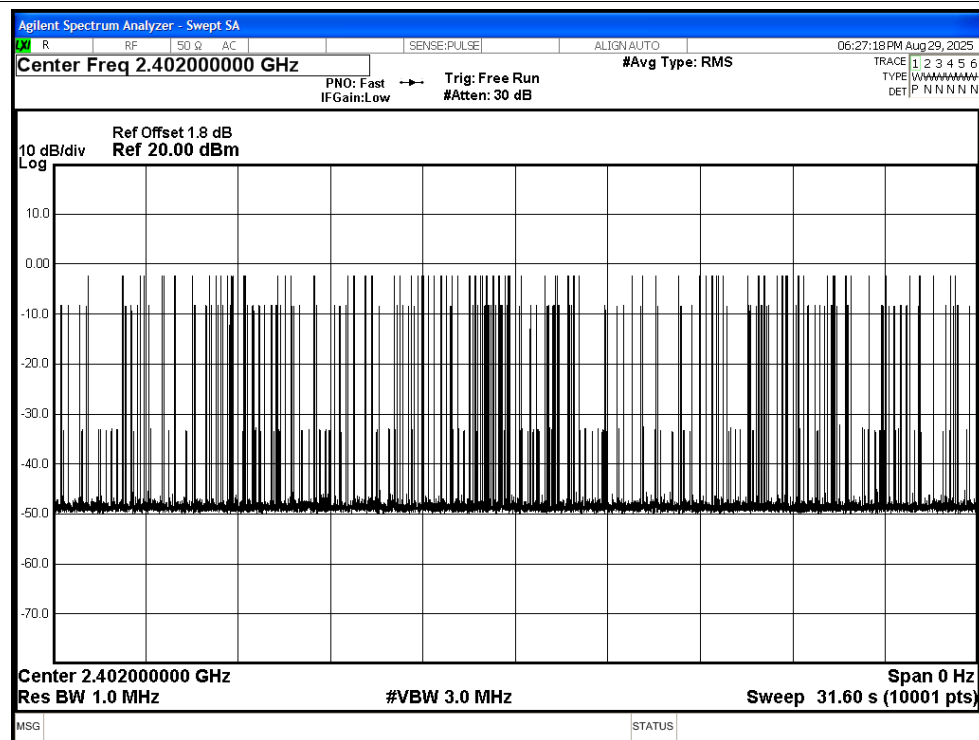
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



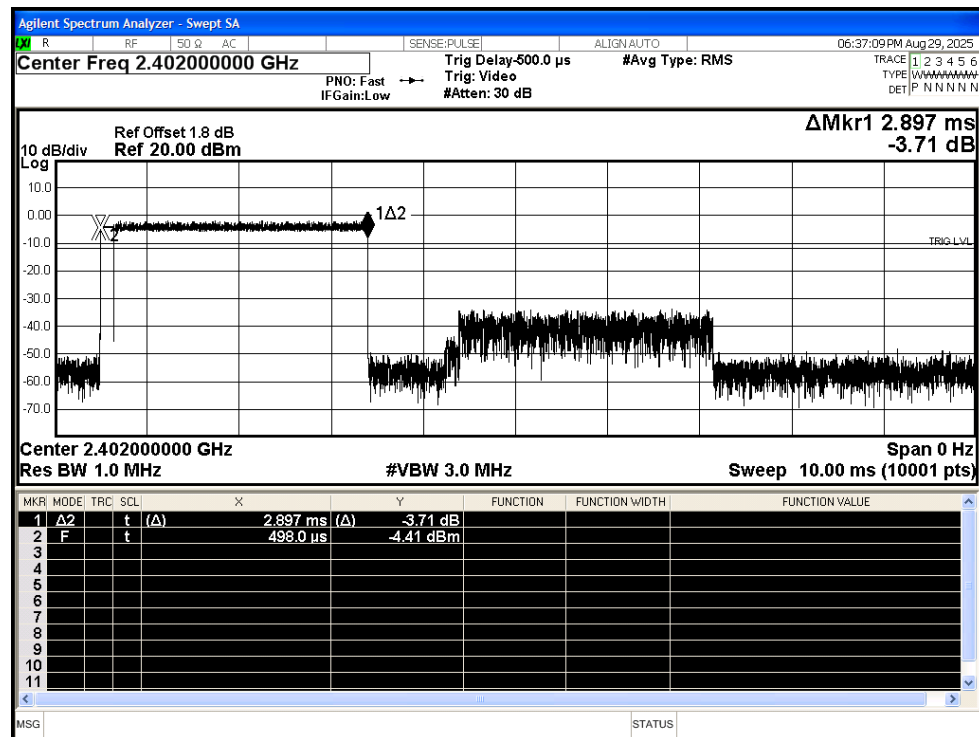
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



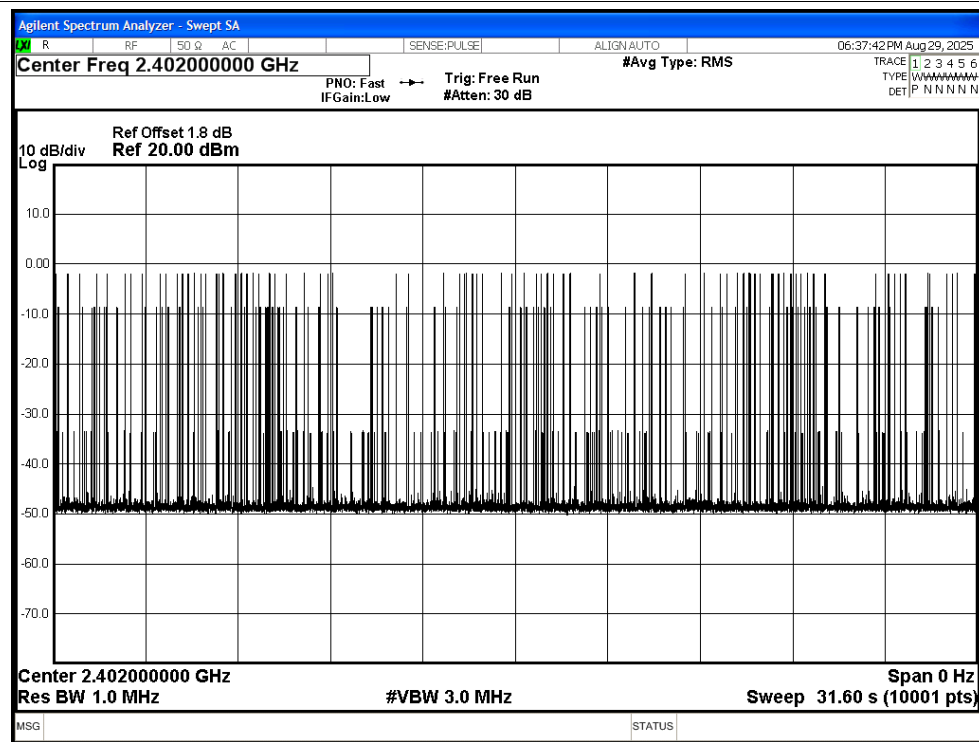
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

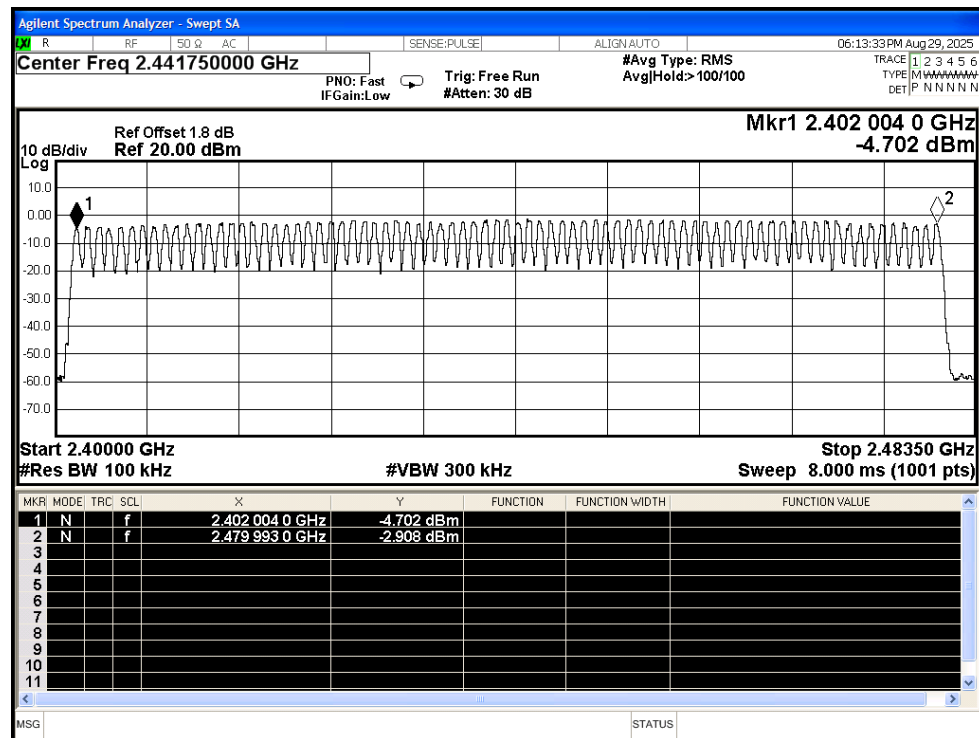


A.5 Number of Hopping Channel

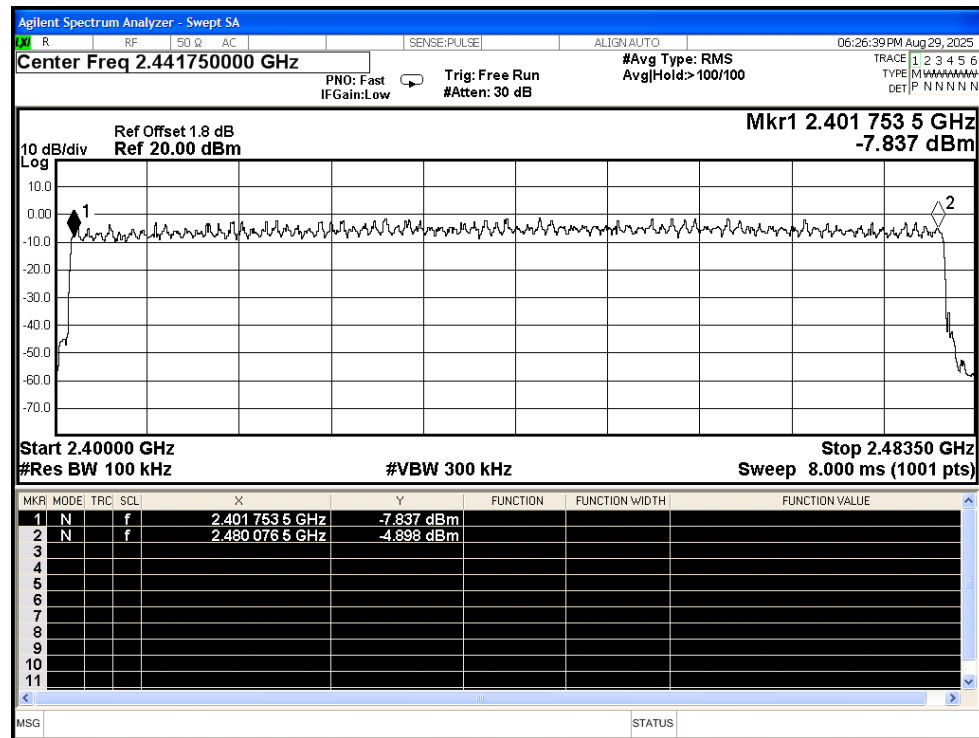
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

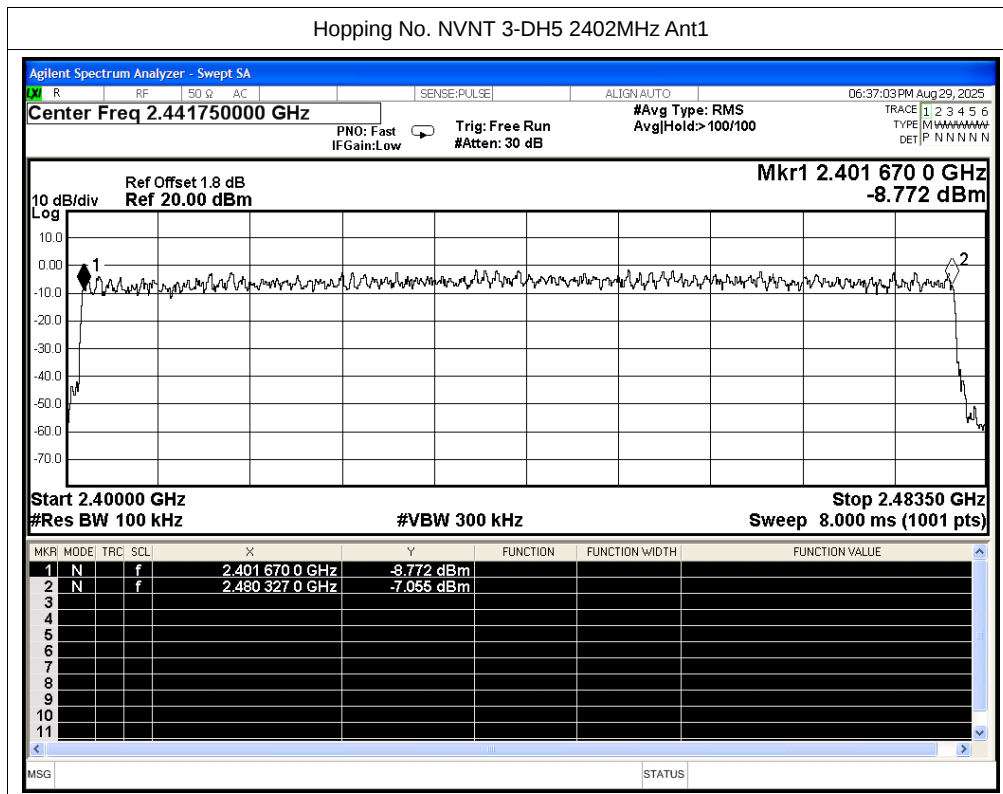
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



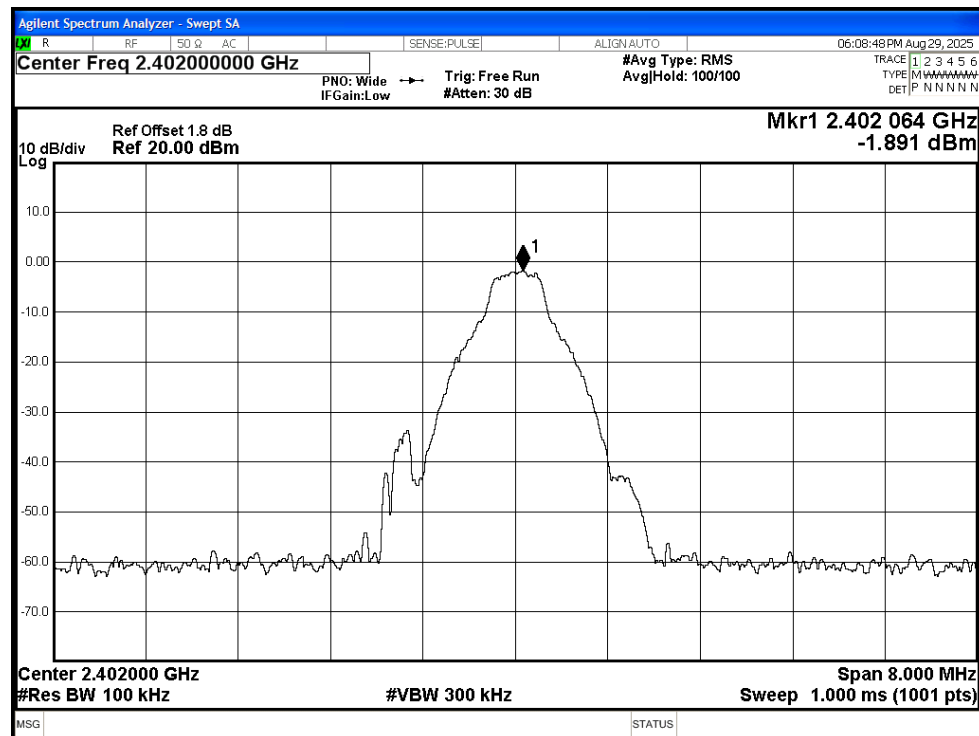


A.6 Band Edge

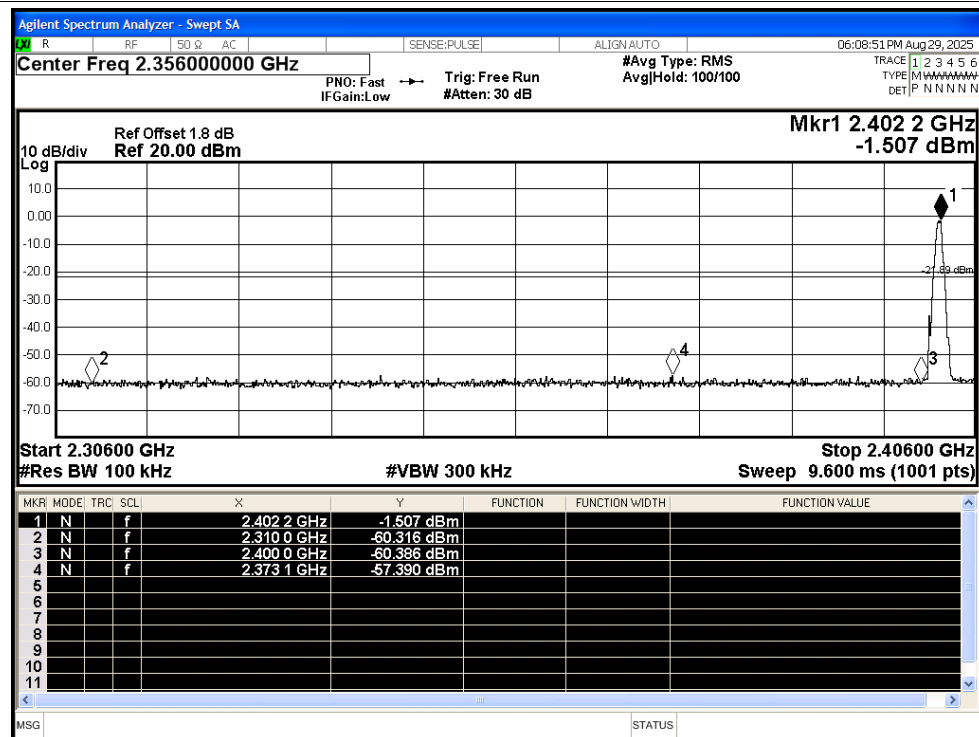
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.5	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.7	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.45	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.98	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.44	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.11	-20	Pass

Test Graphs

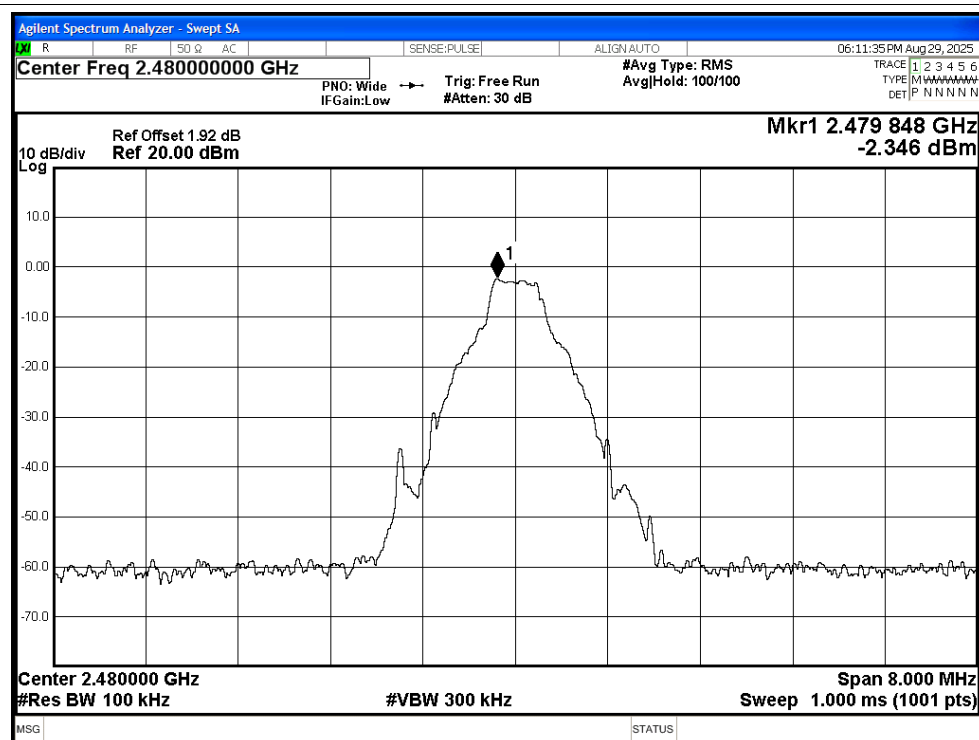
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



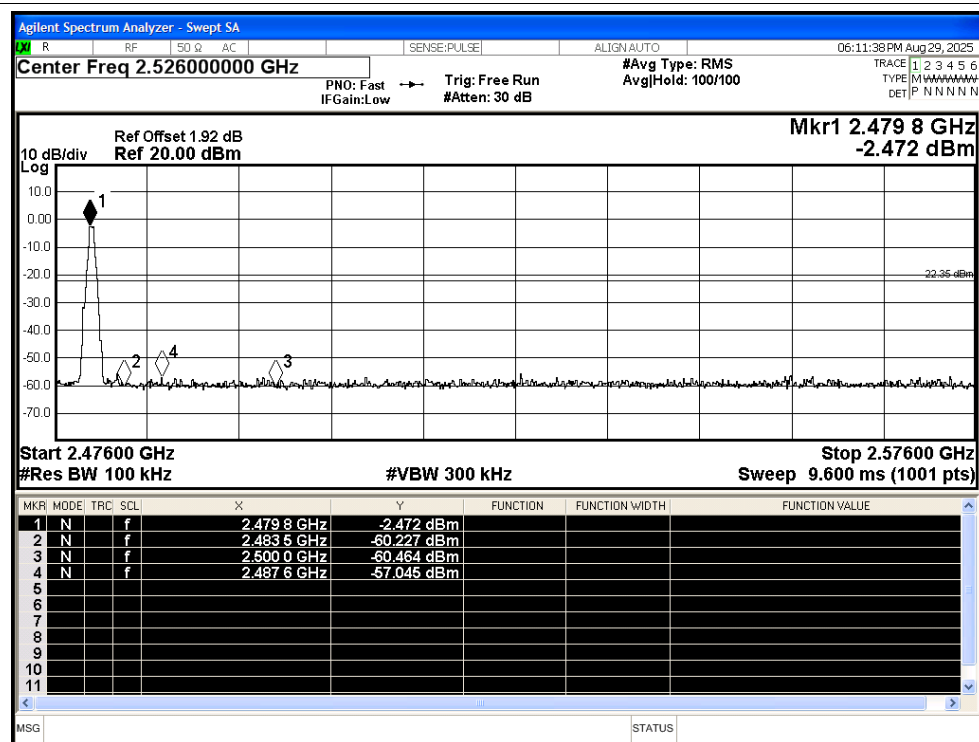
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



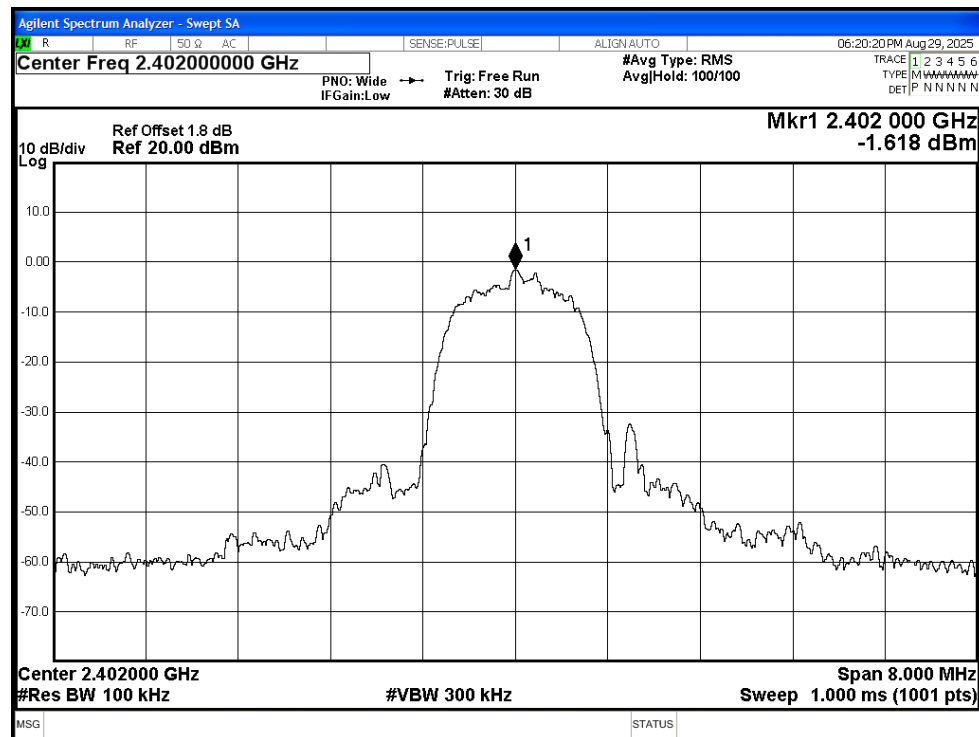
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



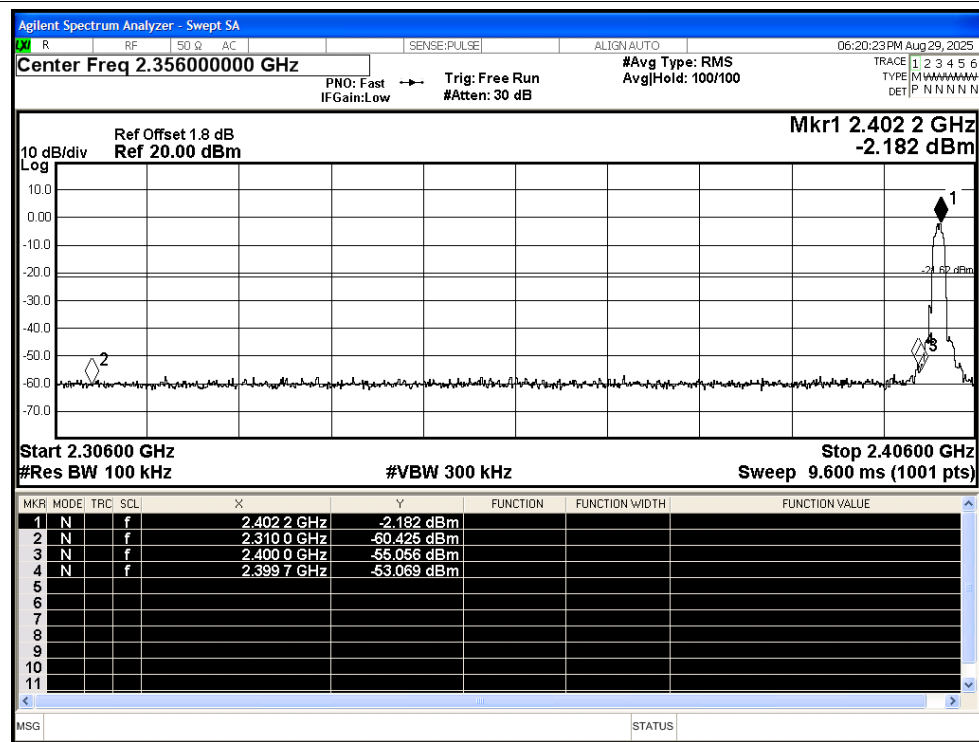
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



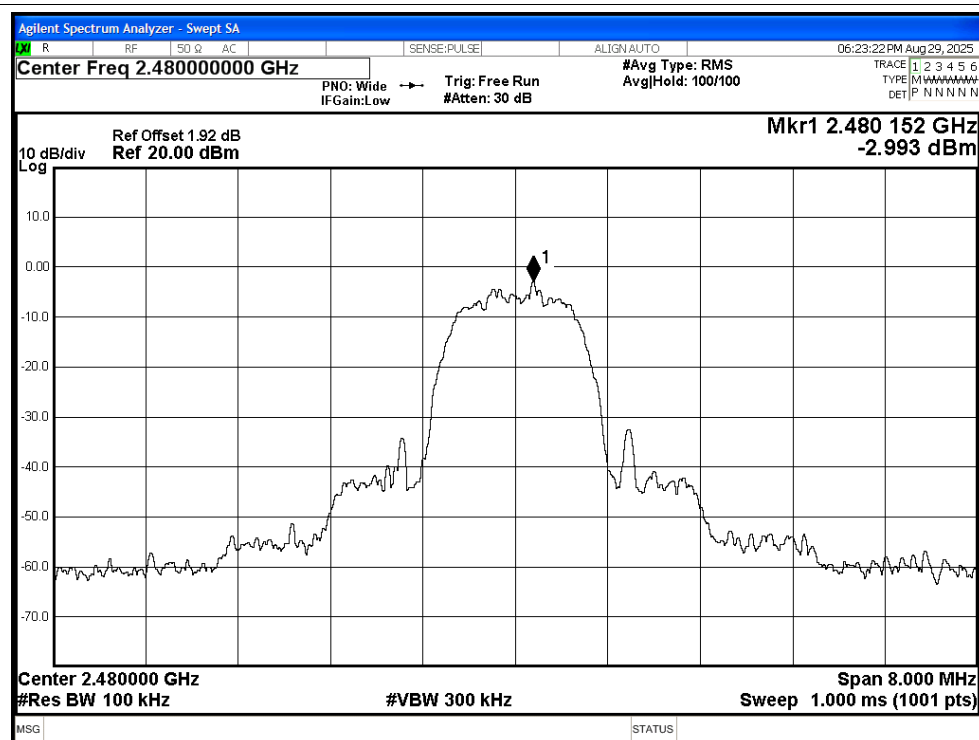
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



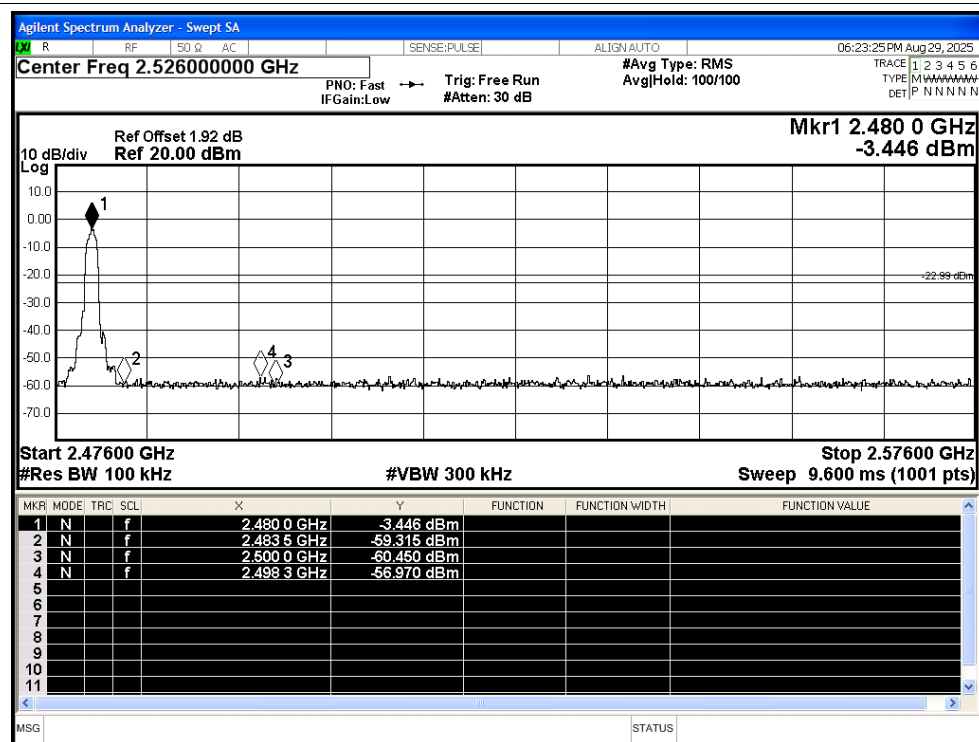
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



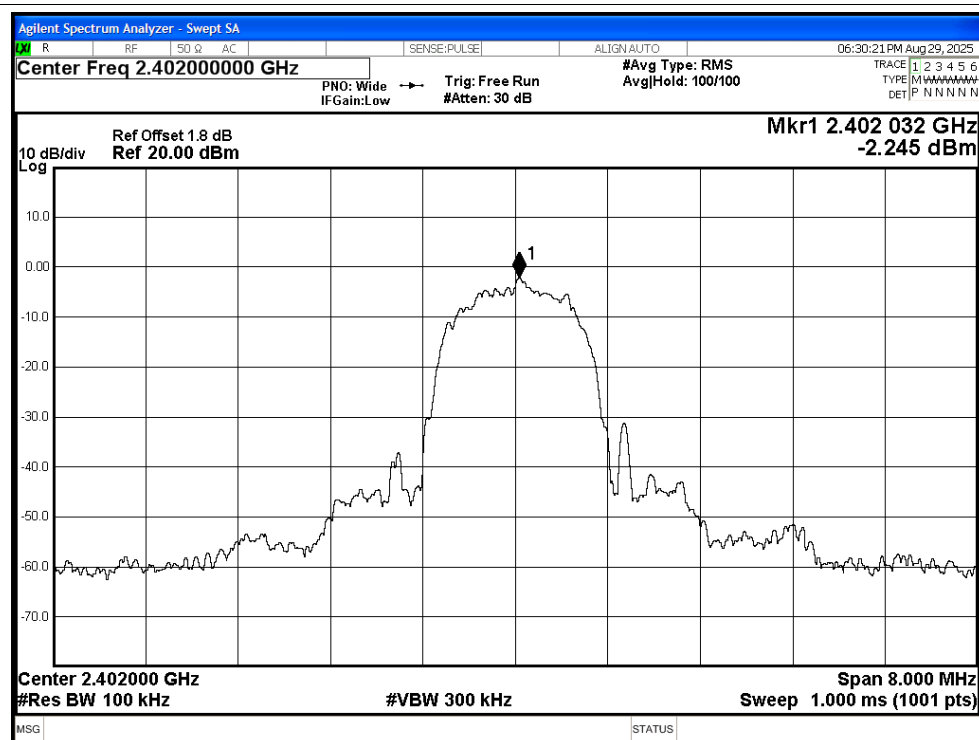
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



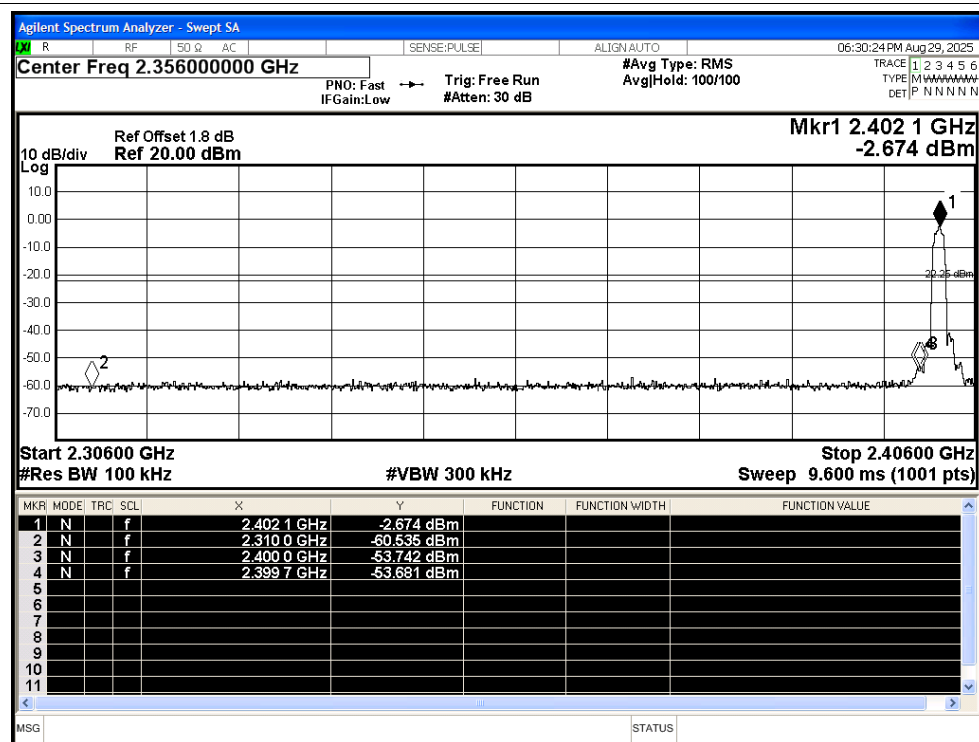
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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



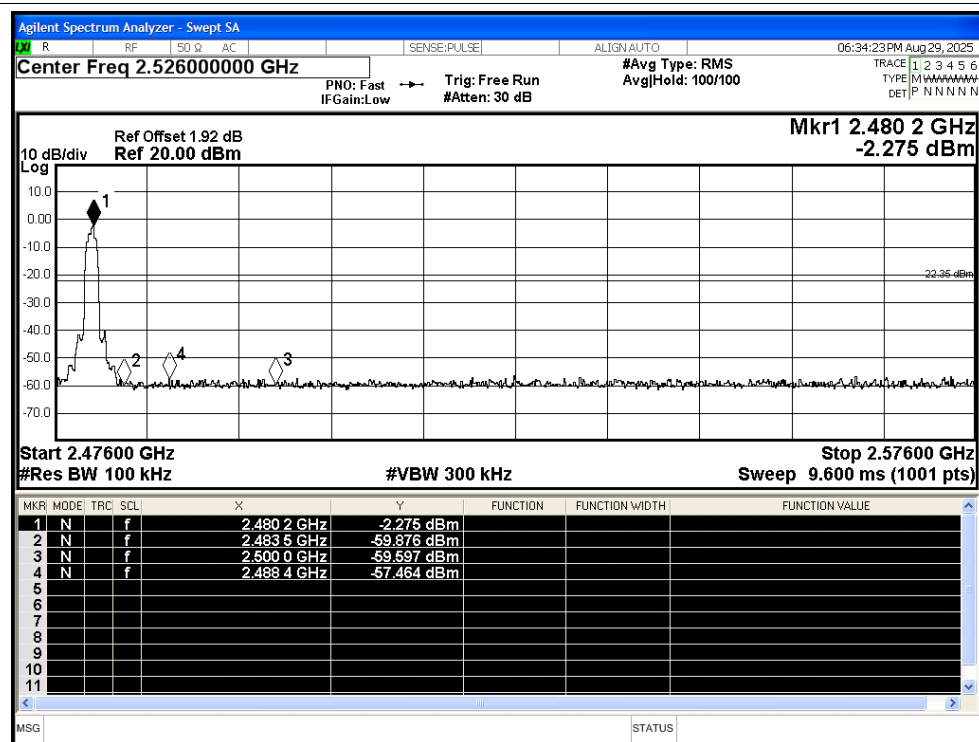
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

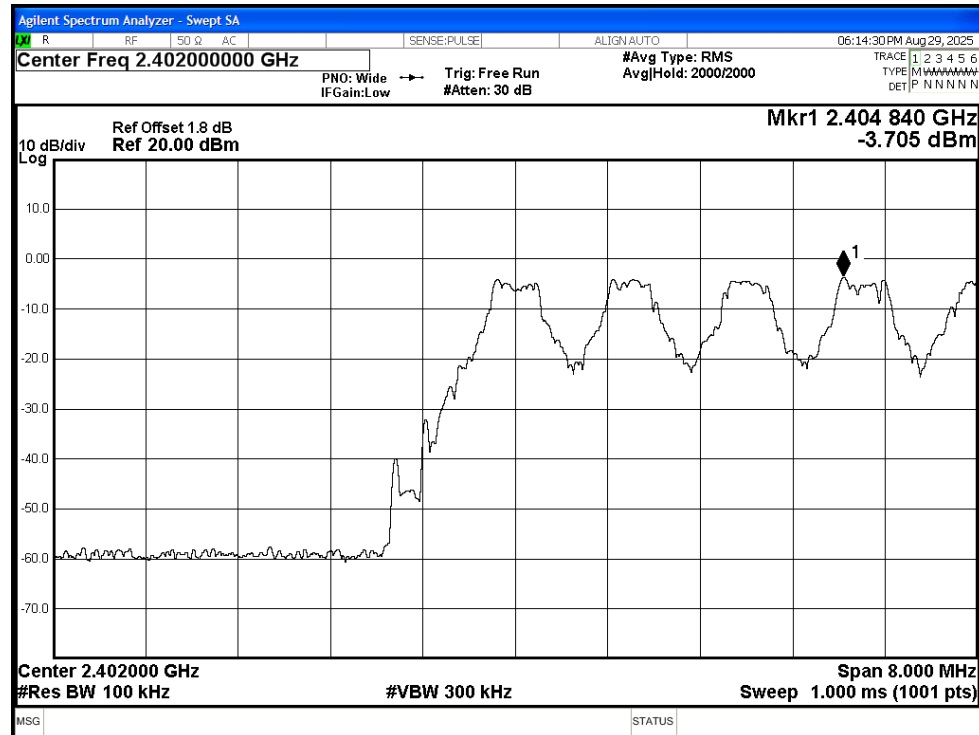


(Hopping)

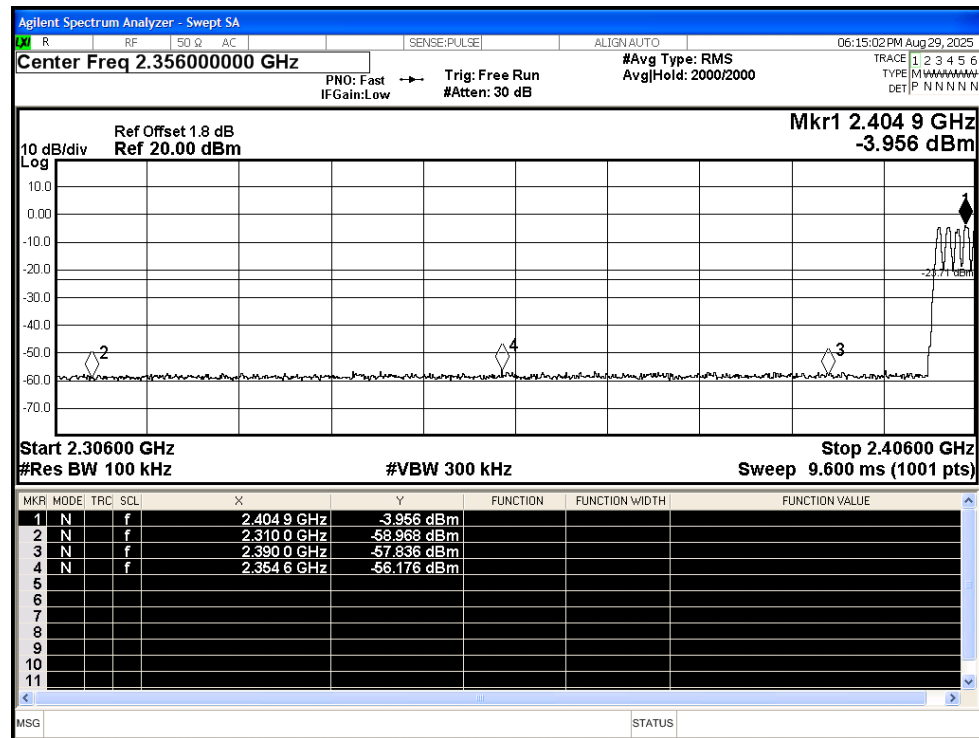
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.47	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.47	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.97	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.08	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.4	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.7	-20	Pass

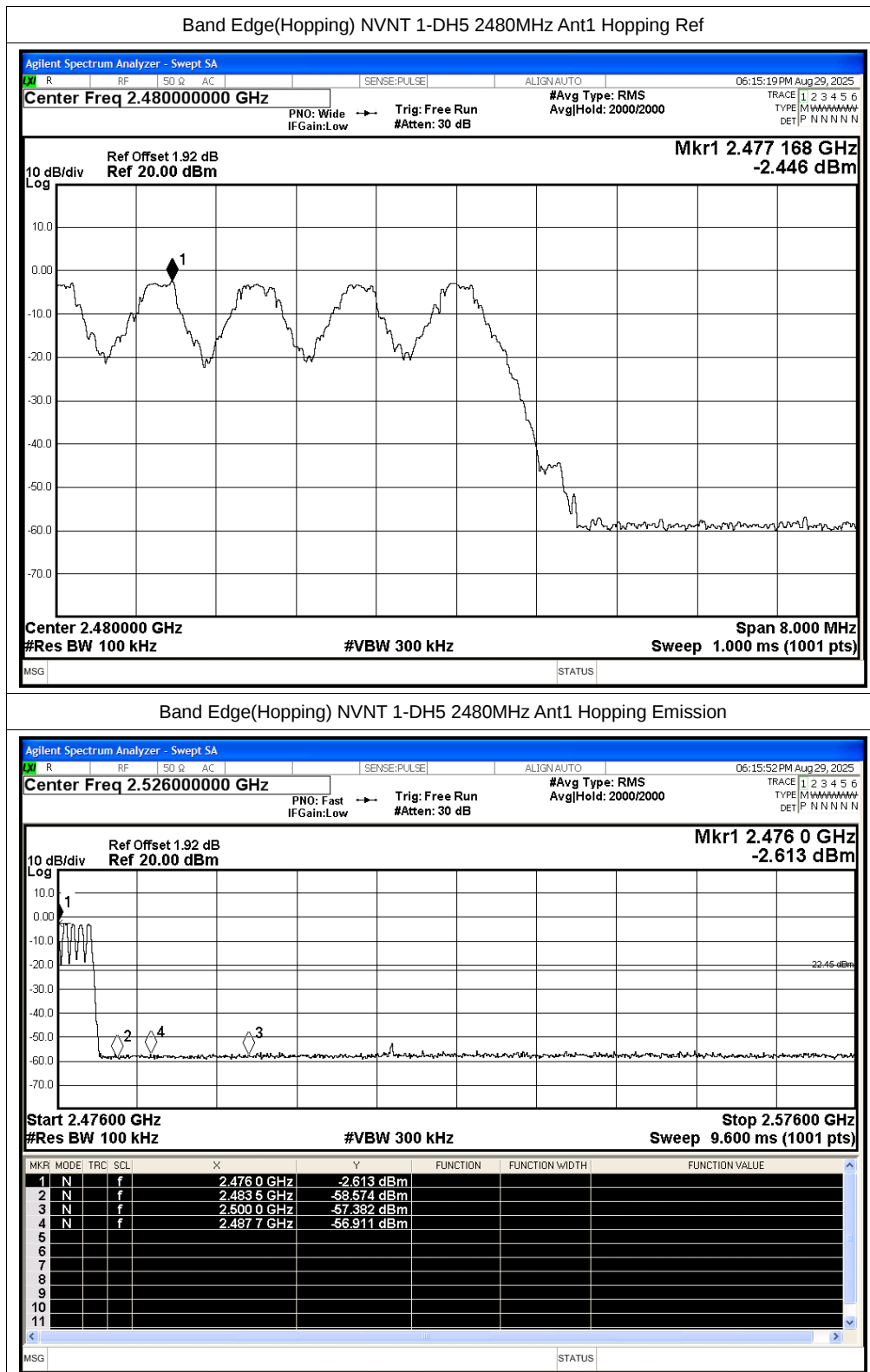
Test Graphs

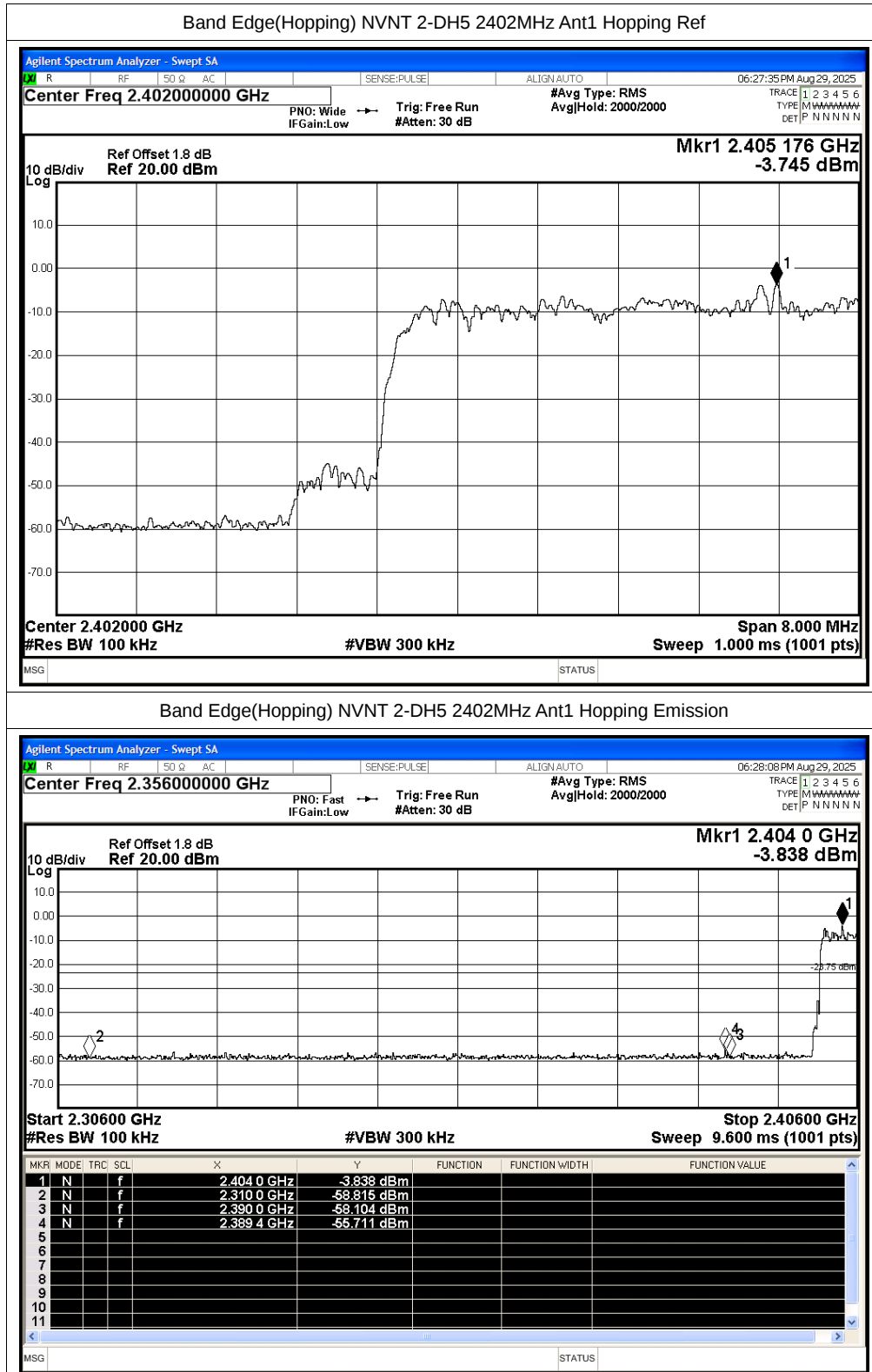
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

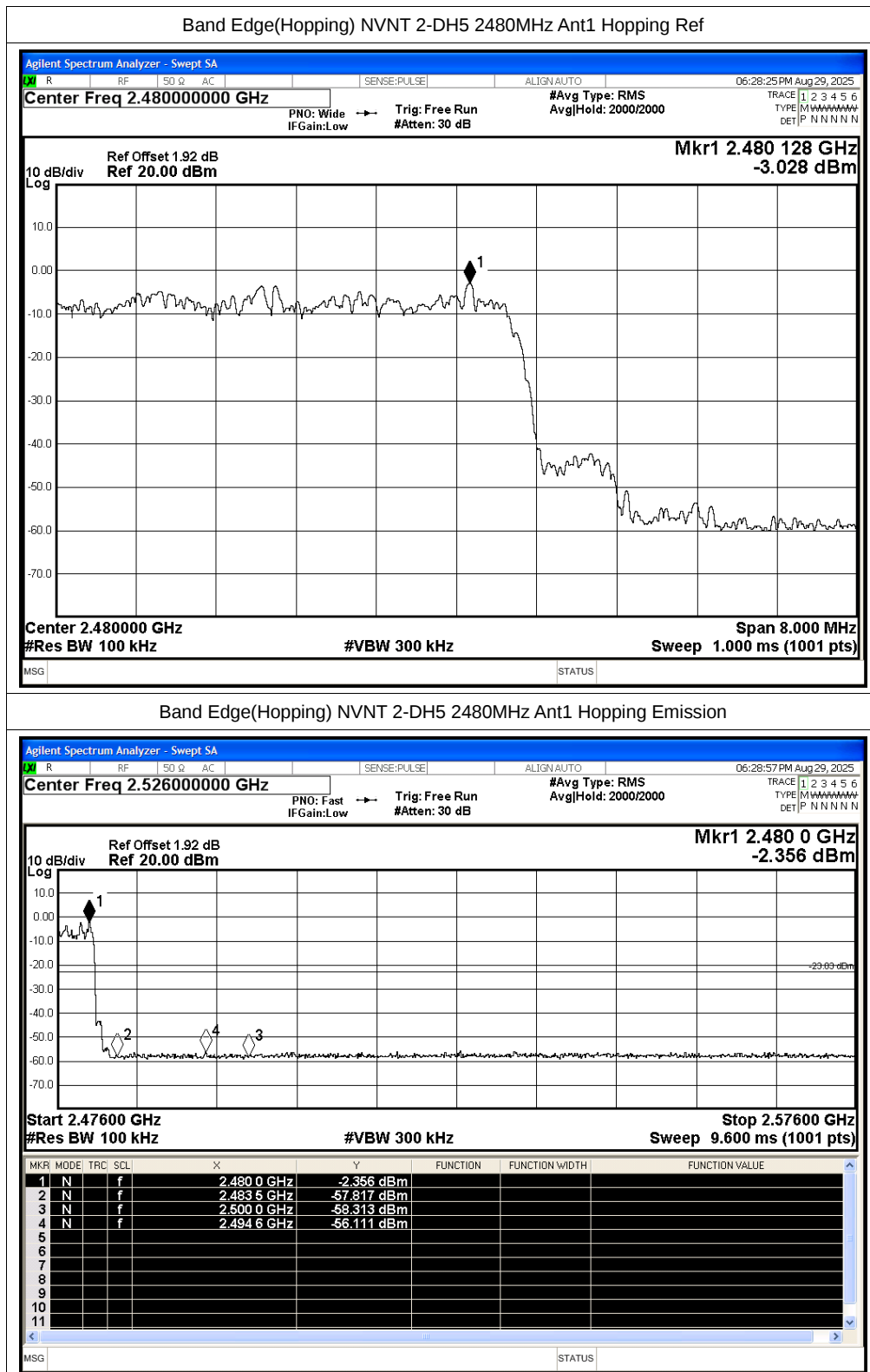


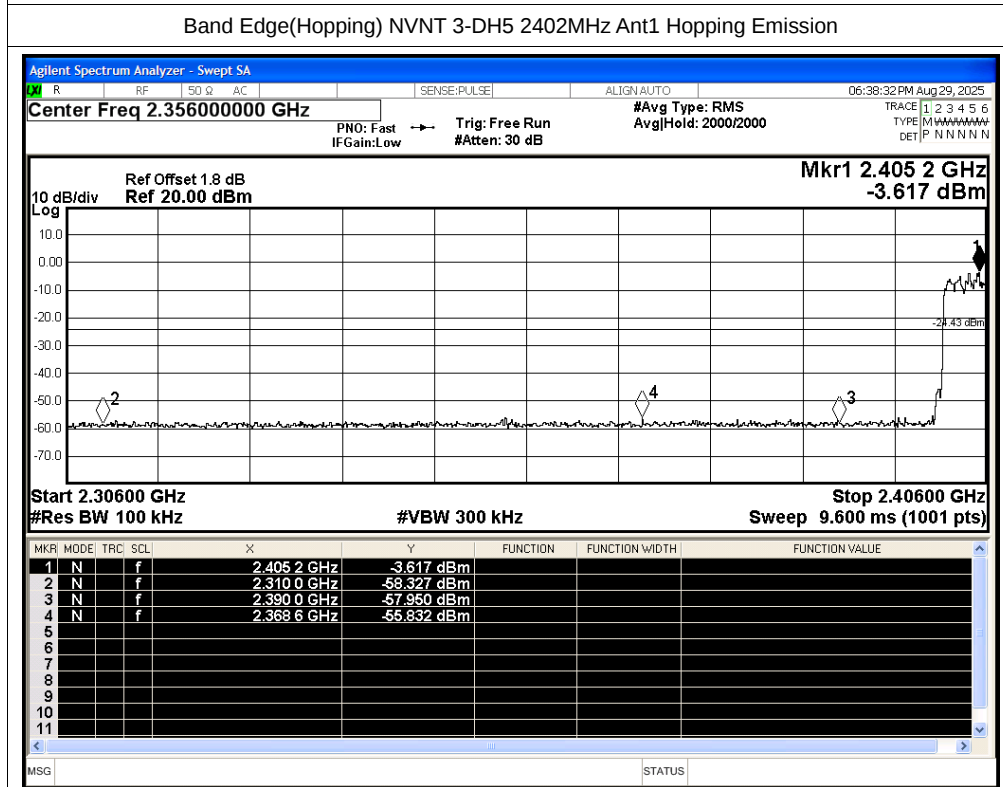
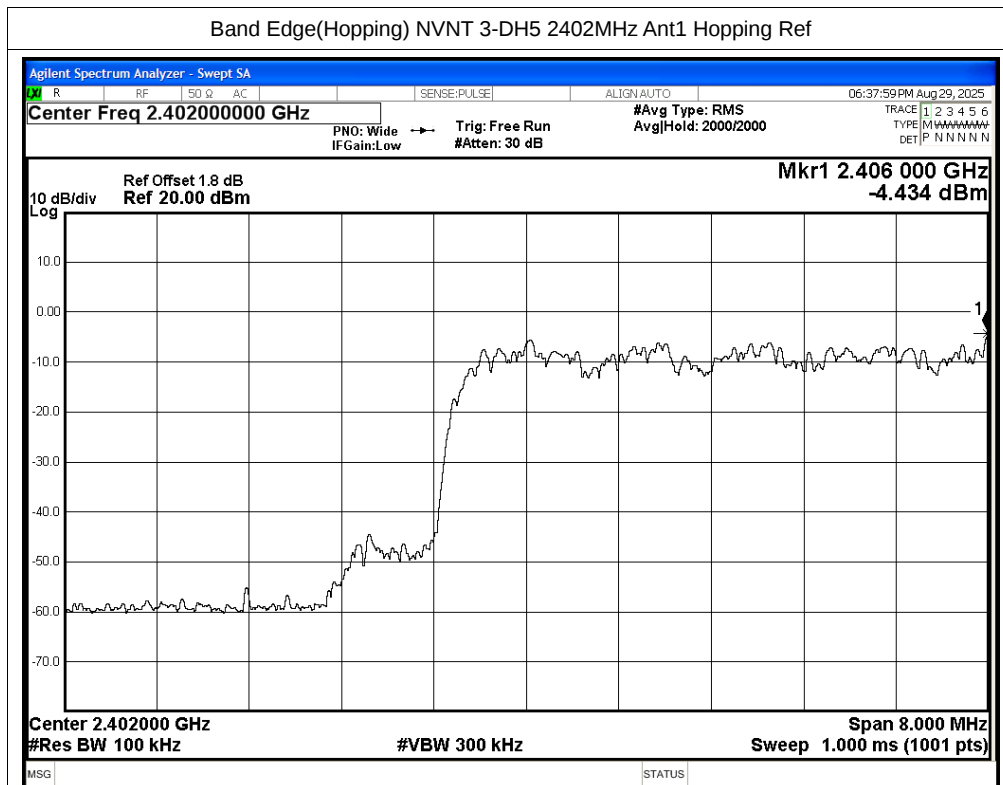
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



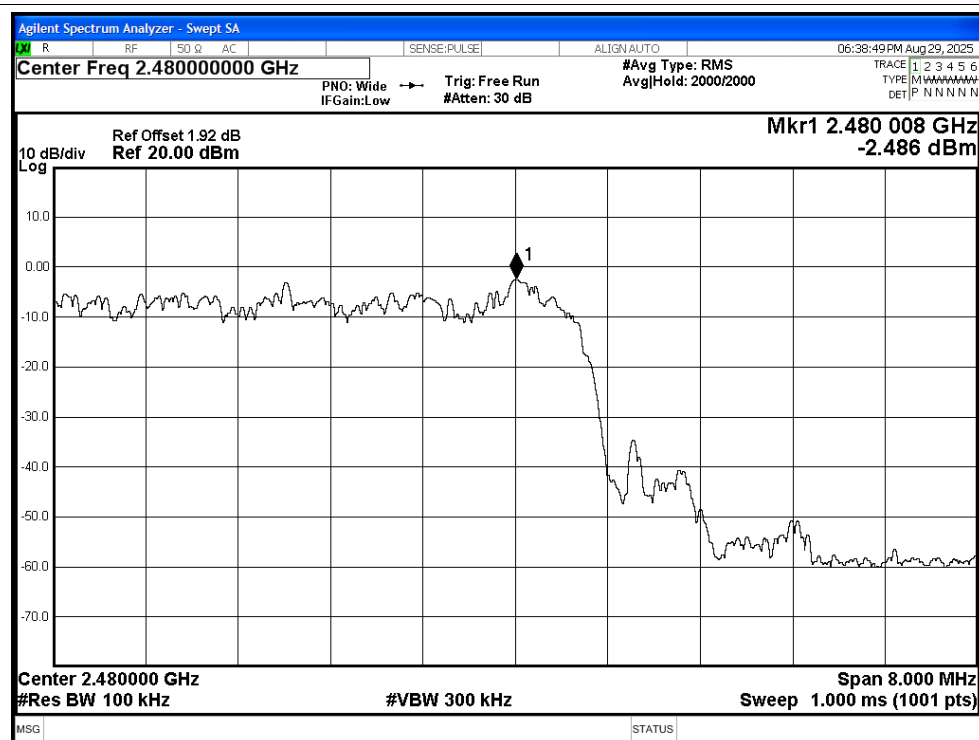




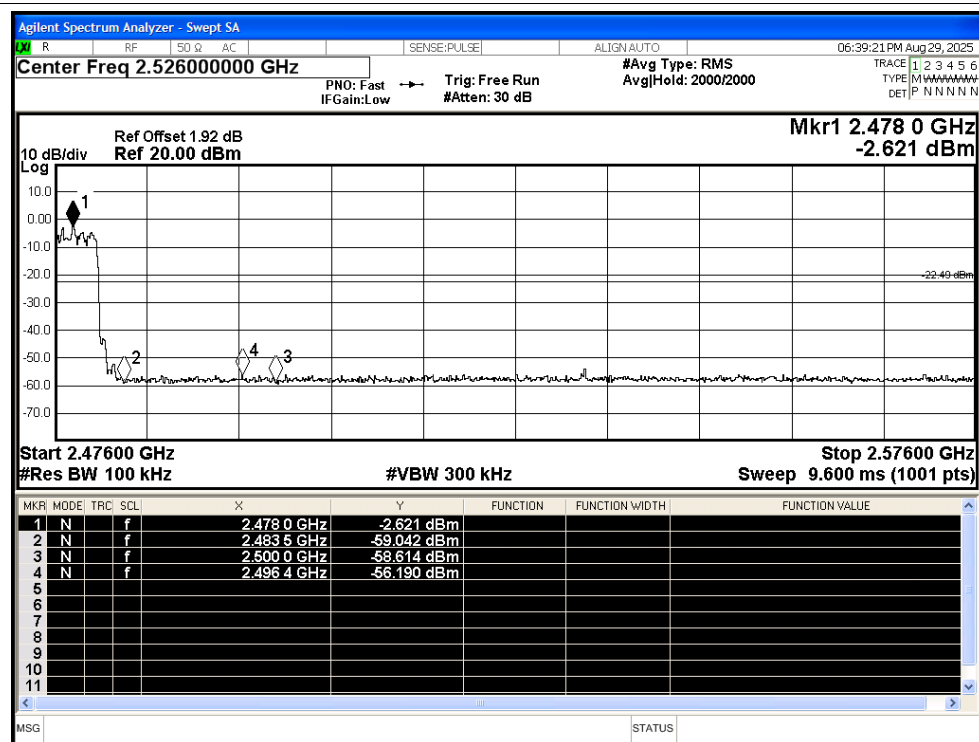




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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

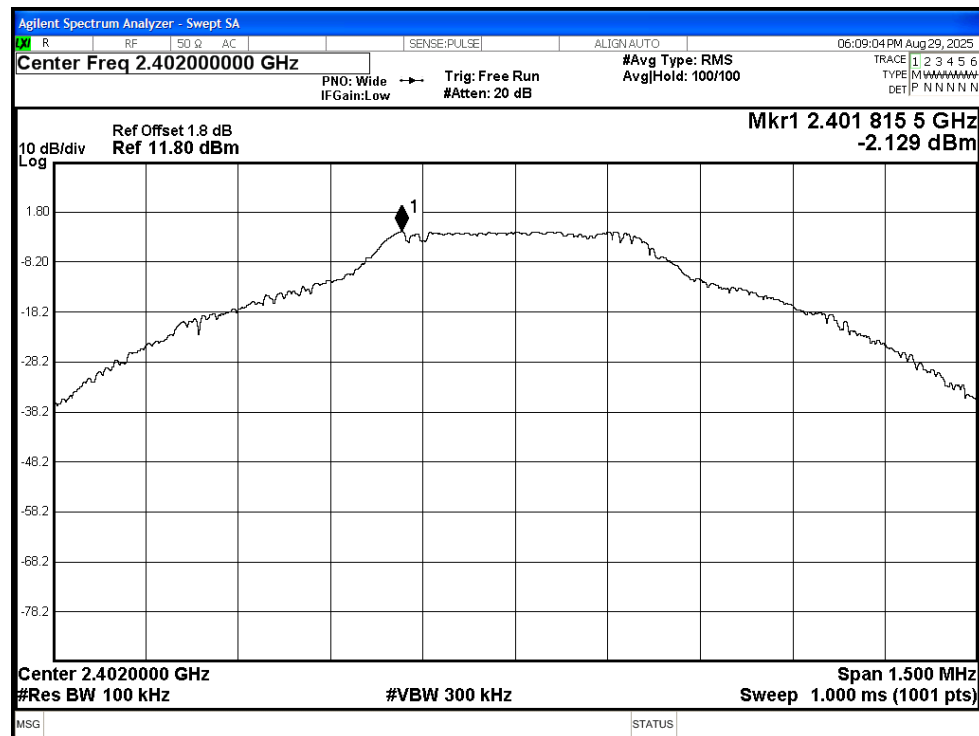


A.7 Conducted RF Spurious Emission

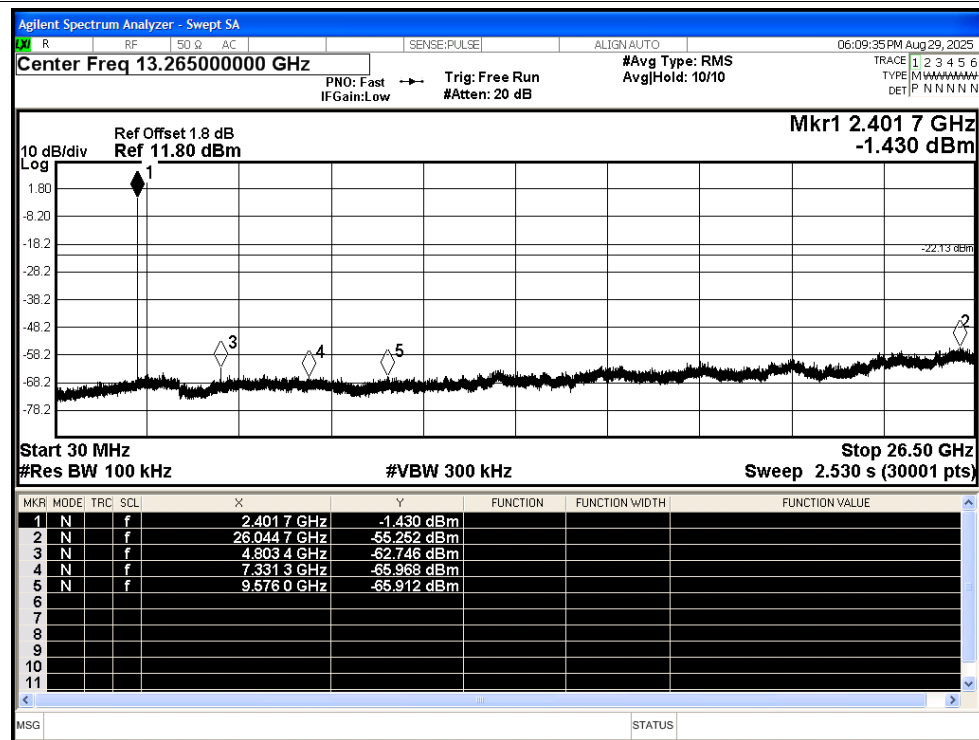
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.12	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.31	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.55	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.14	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.77	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.22	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.23	-20	Pass
NVNT	3-DH5	2441	Ant1	-50.73	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.72	-20	Pass

Test Graphs

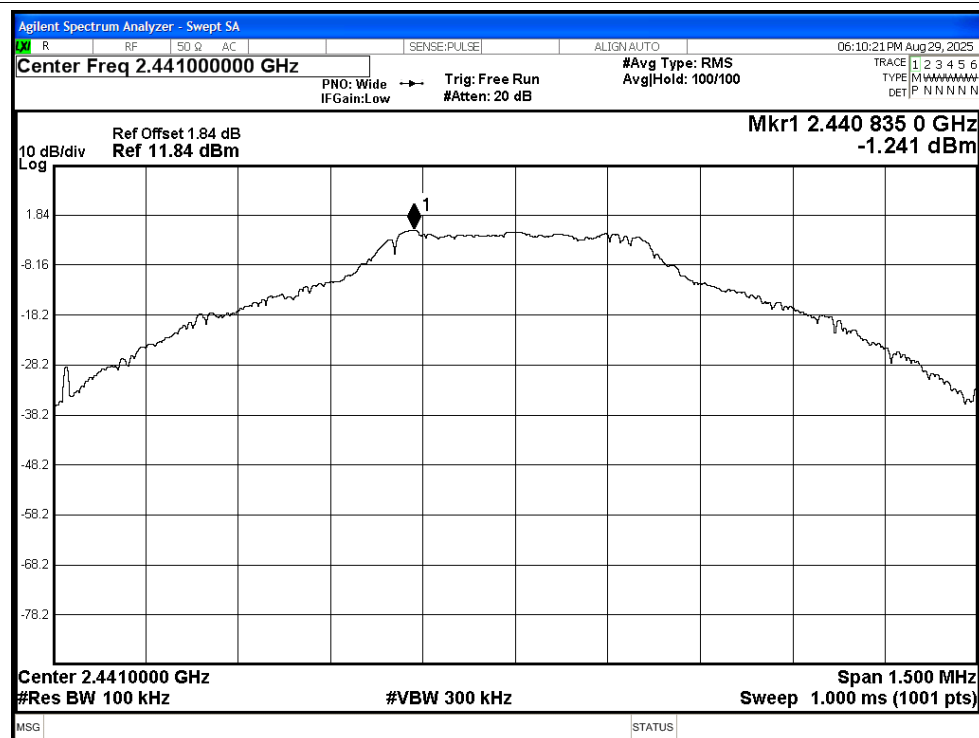
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



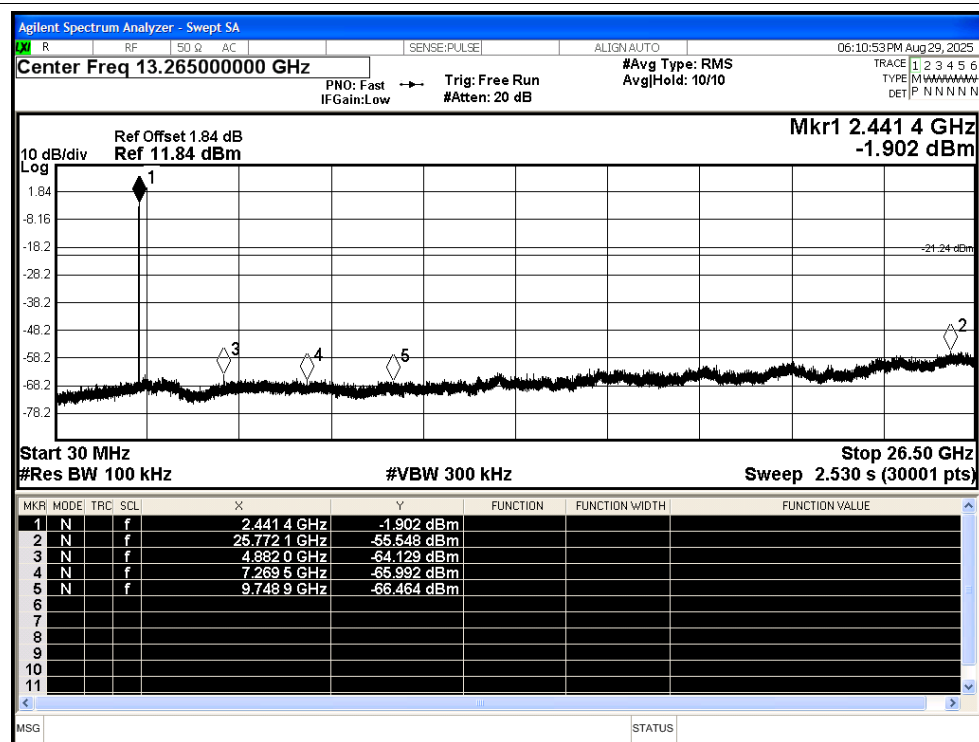
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



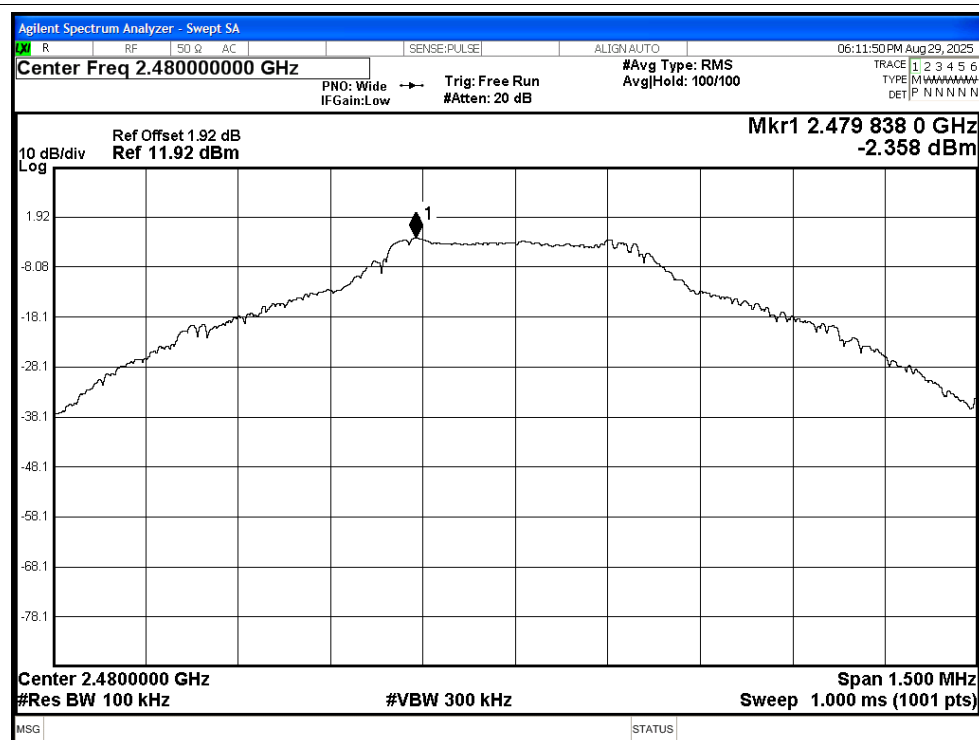
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



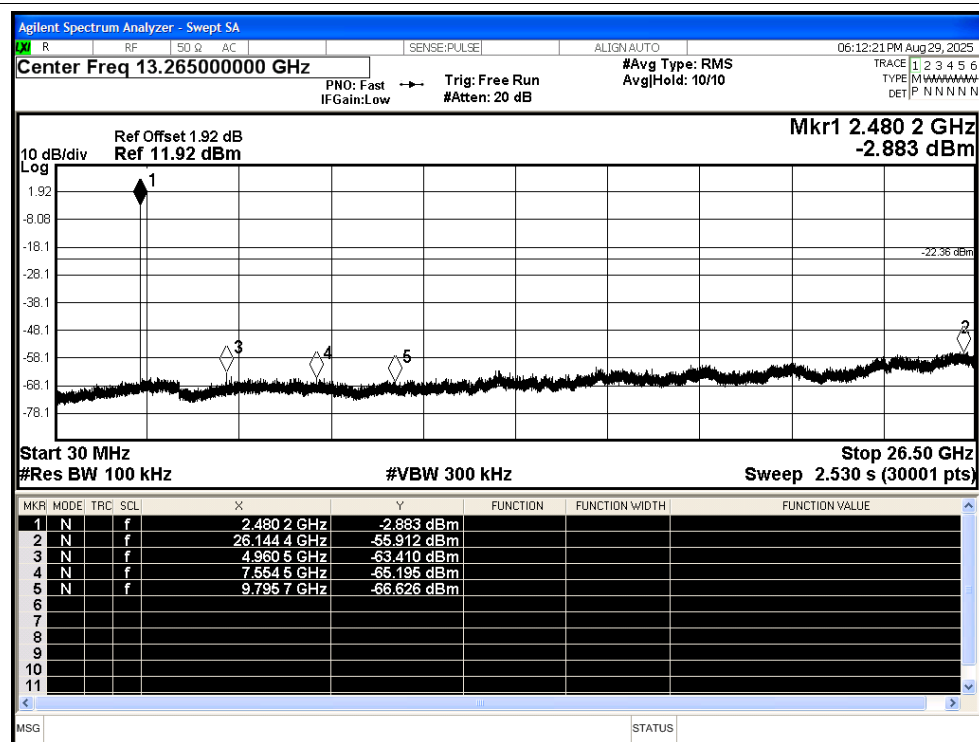
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



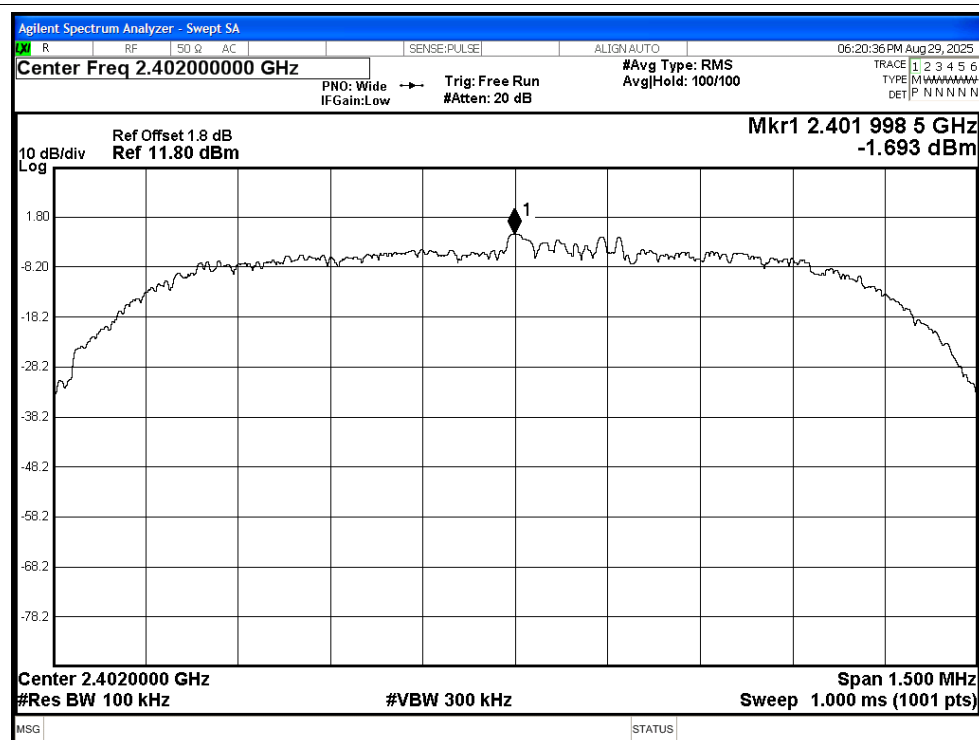
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



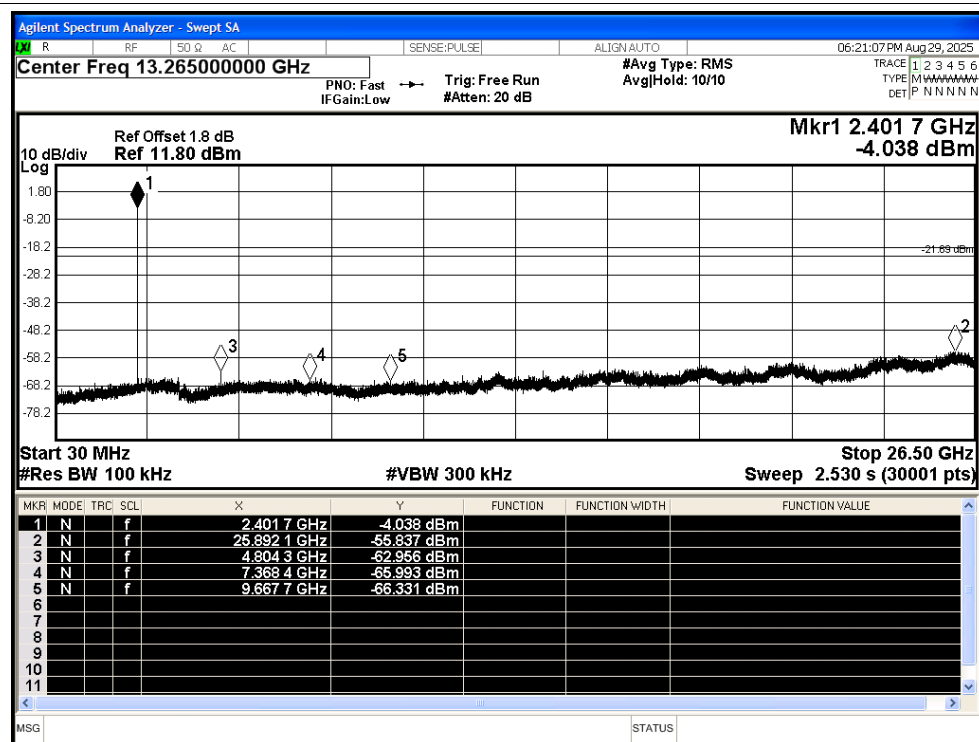
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



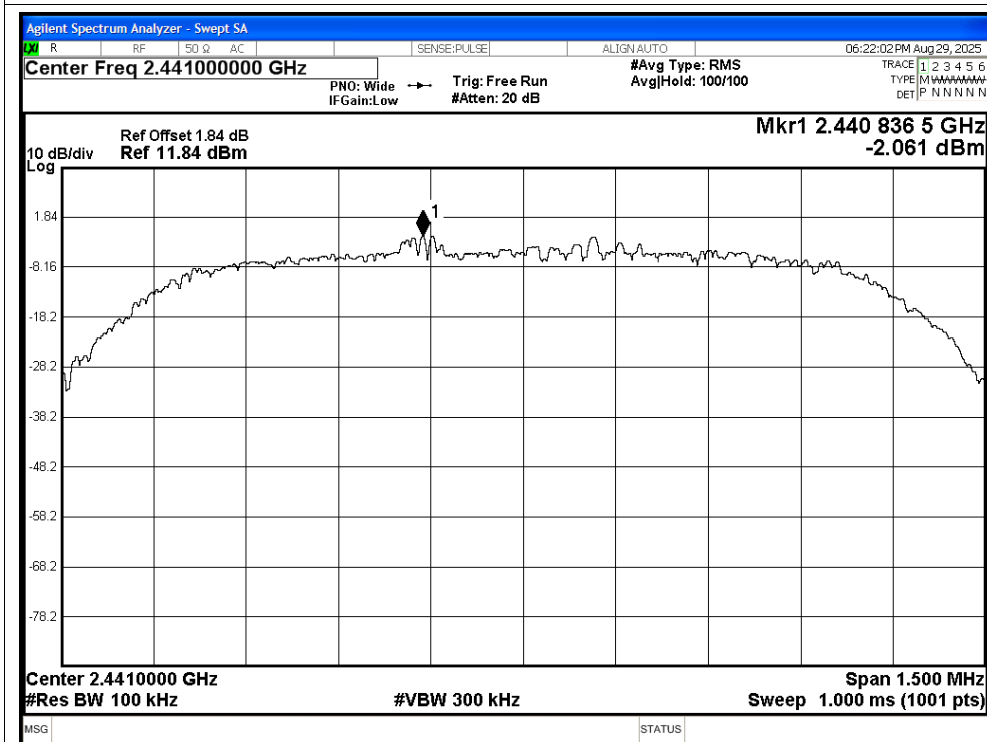
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



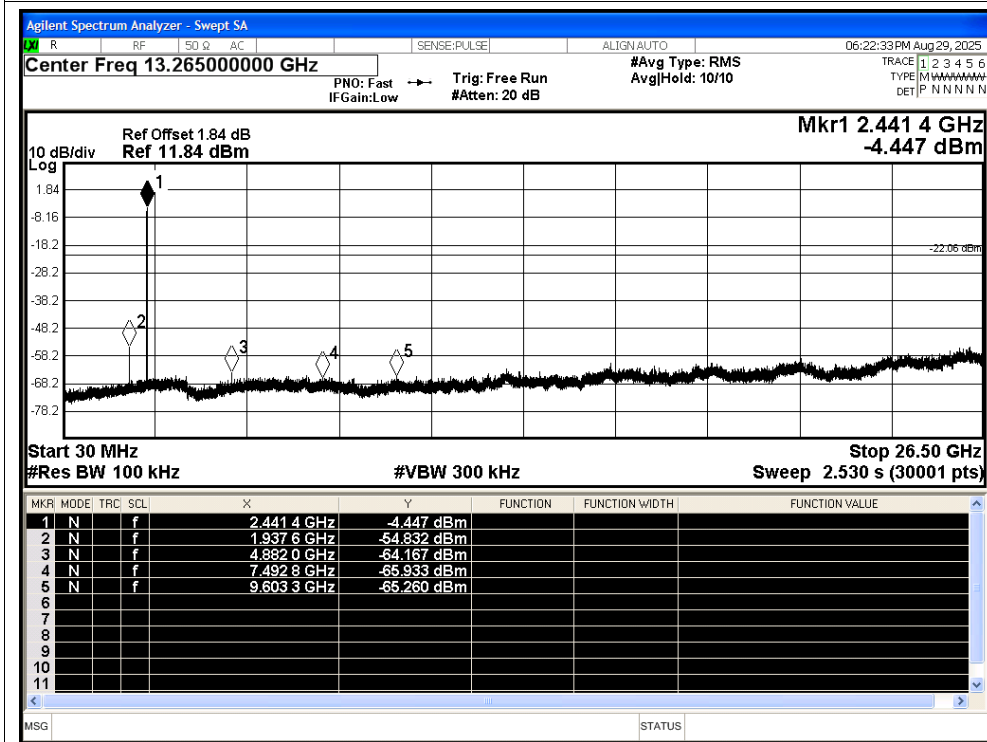
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



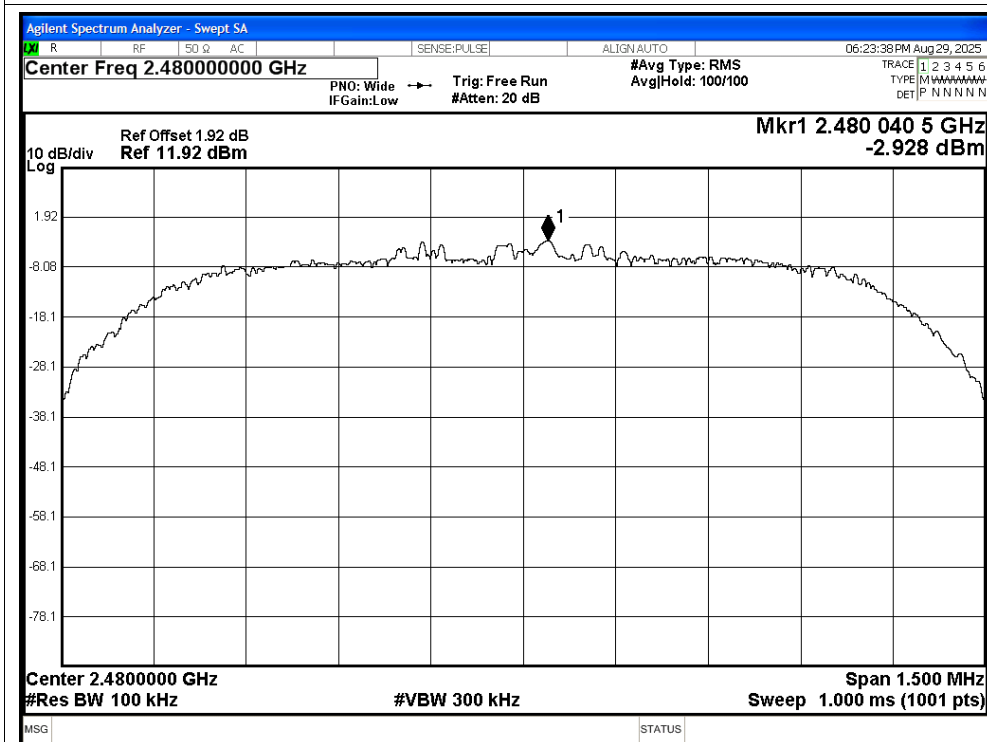
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



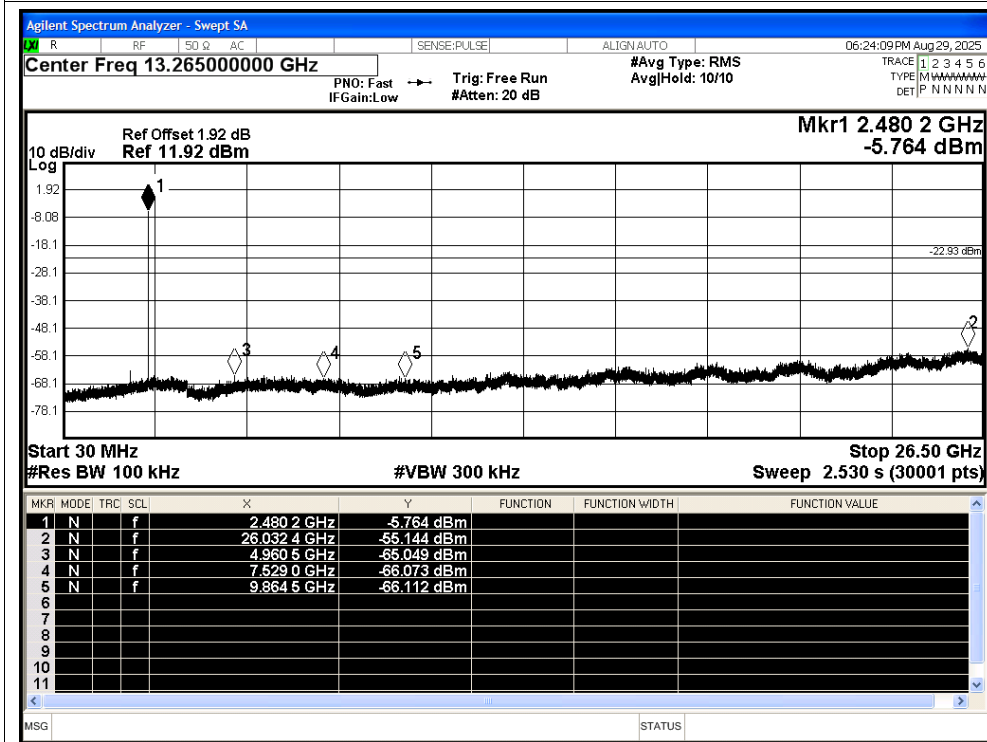
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



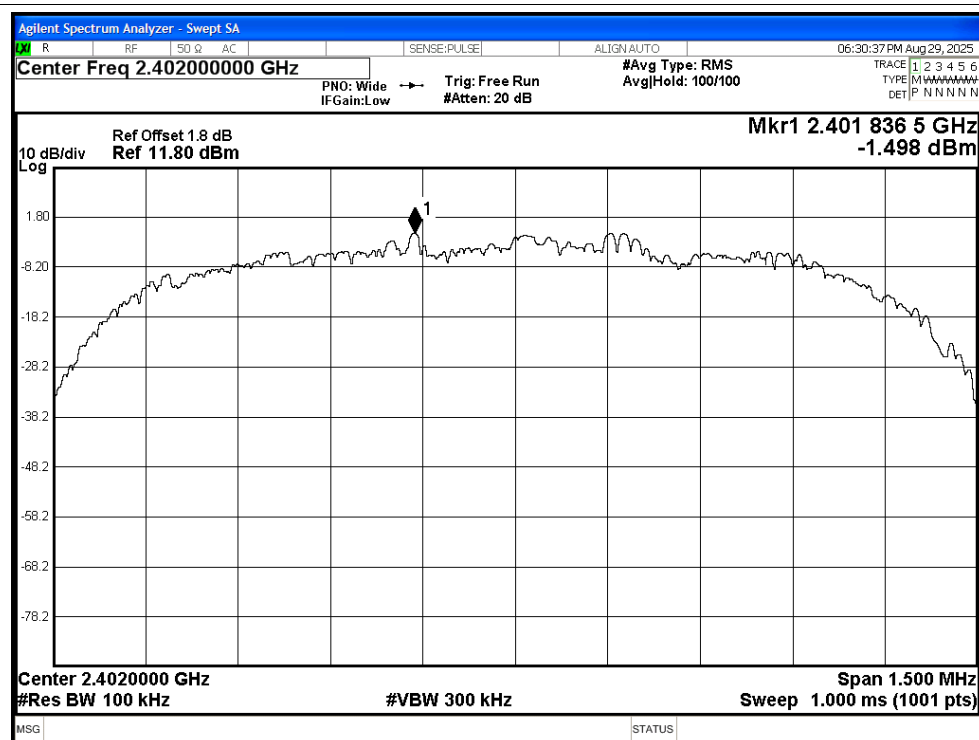
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



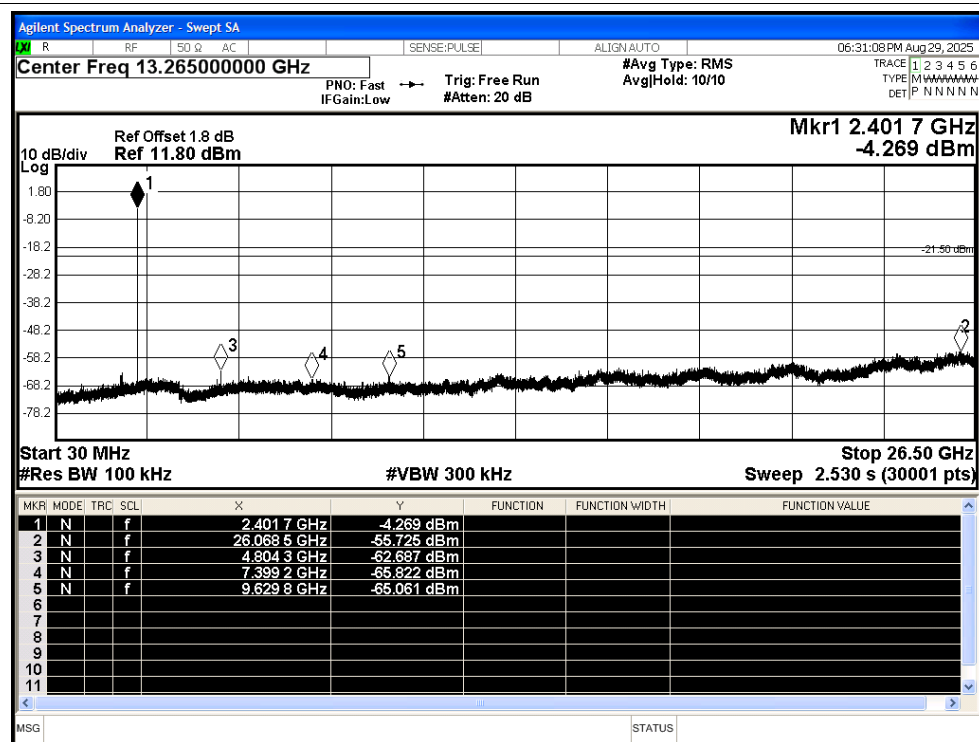
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



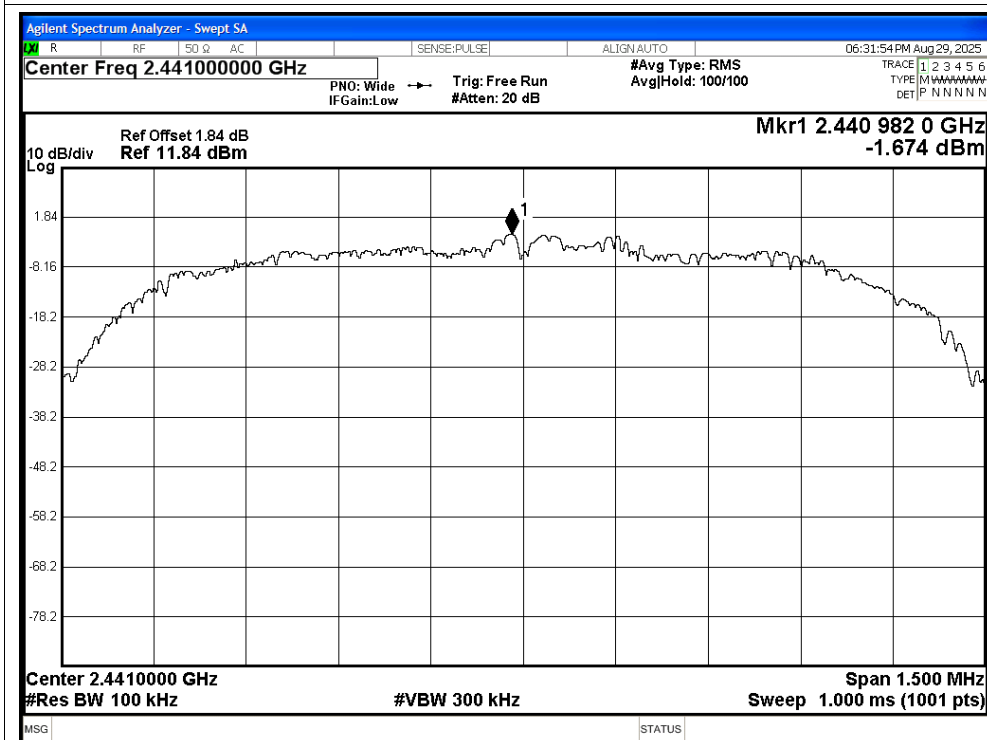
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



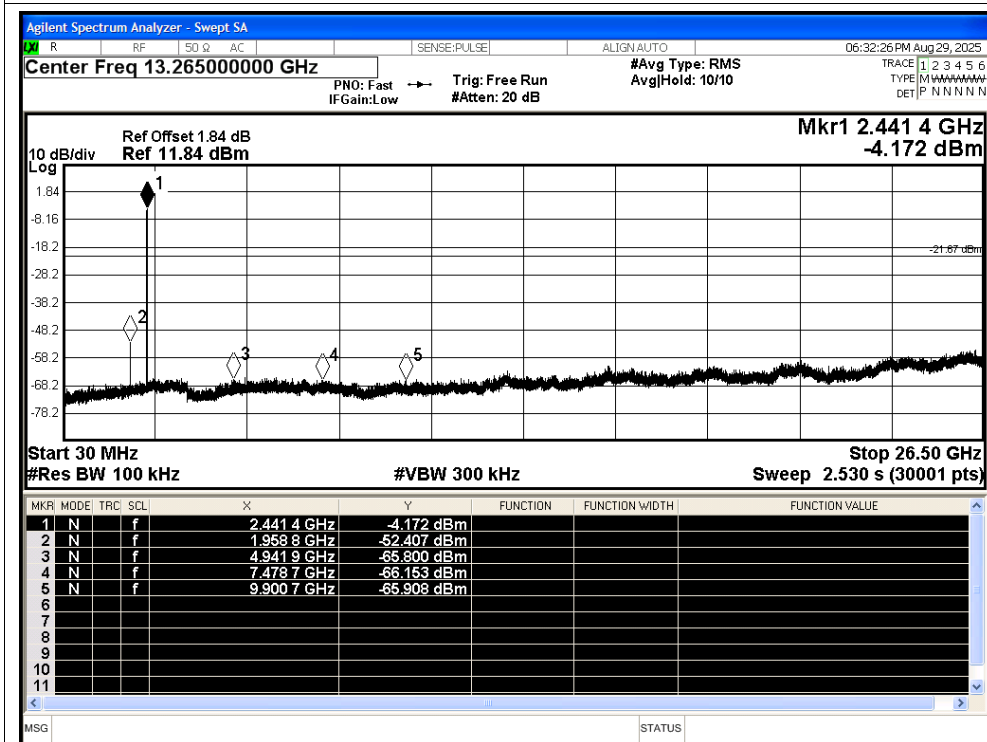
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



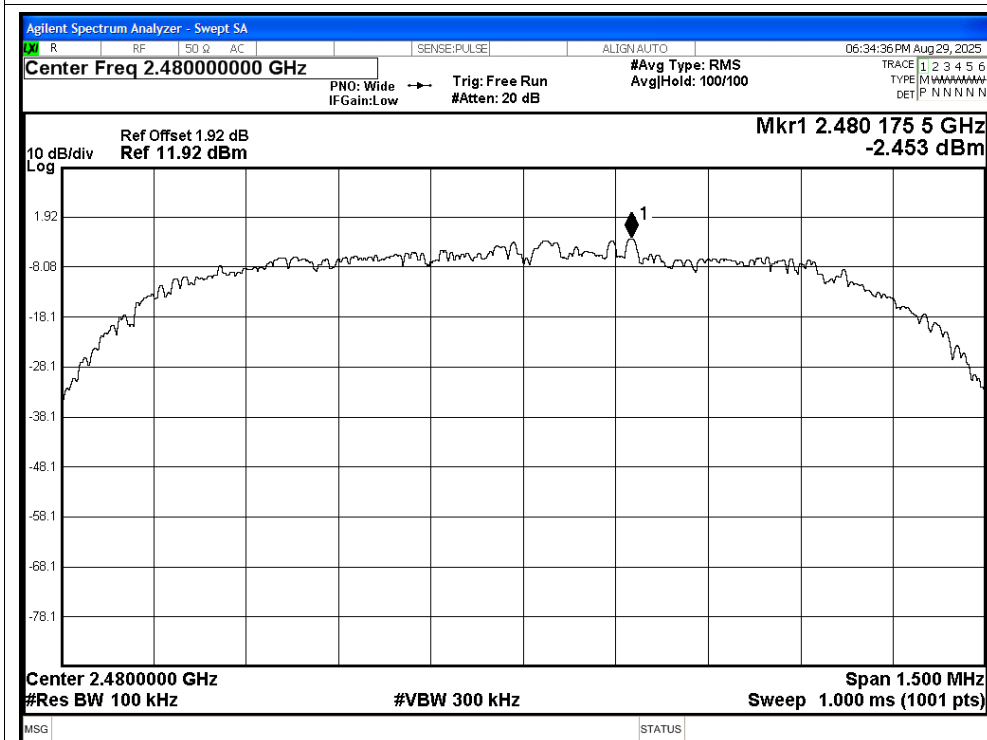
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



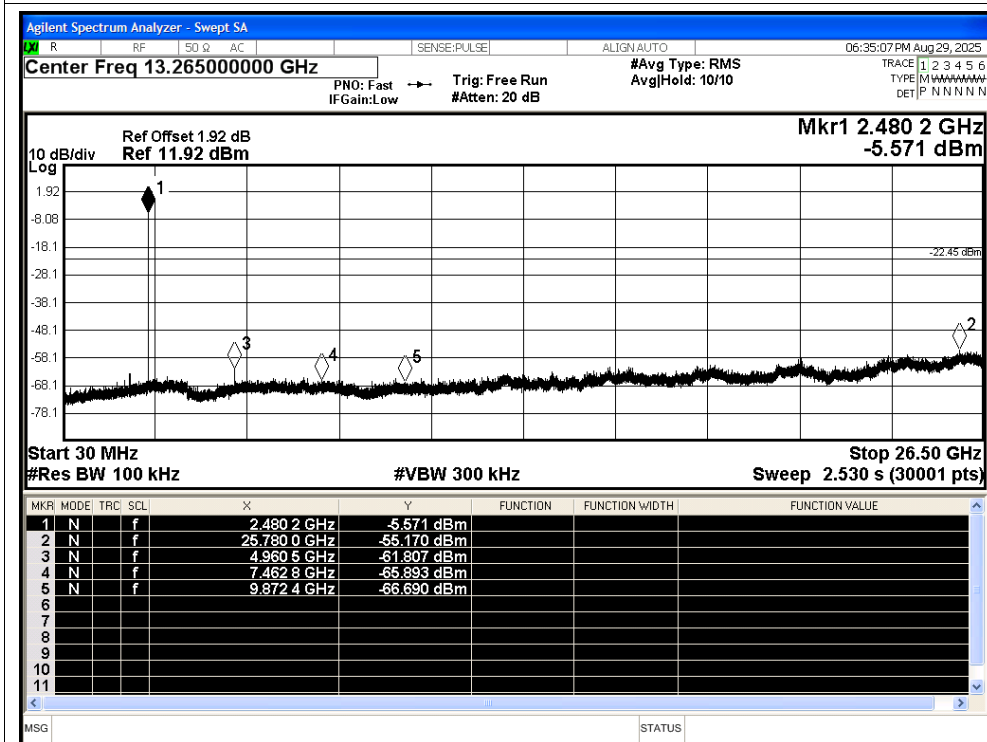
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

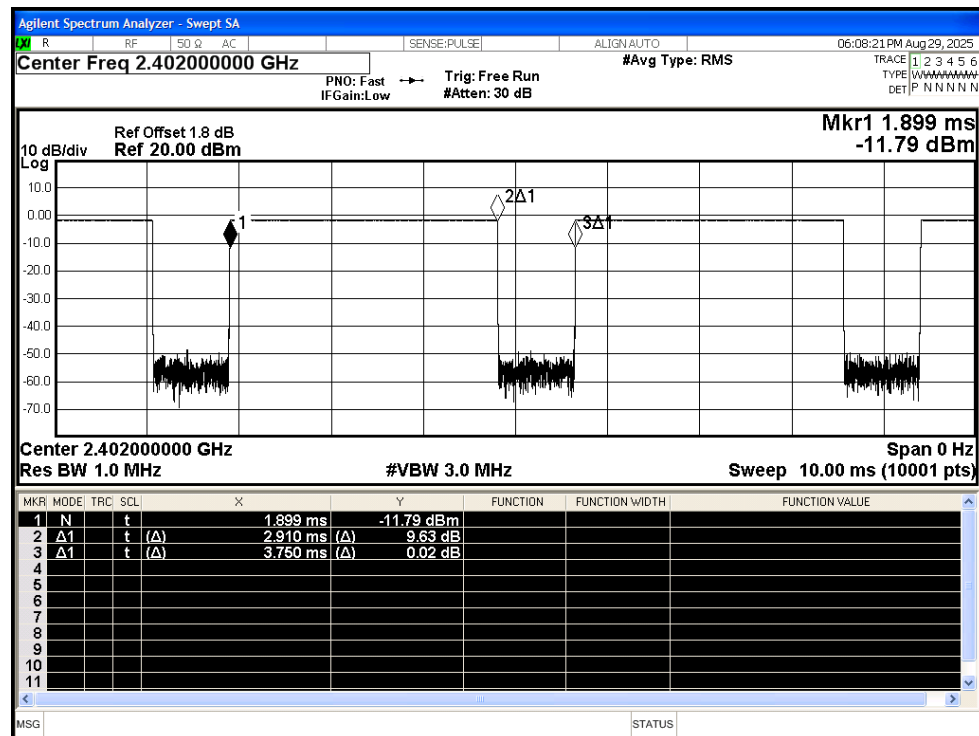


A.8 Duty Cycle

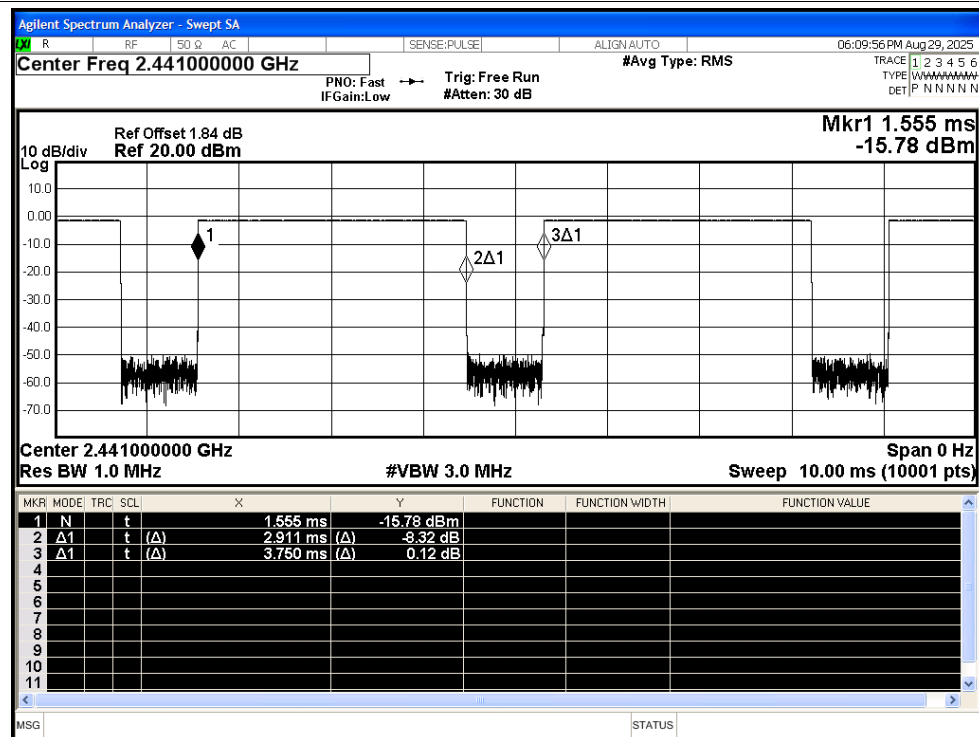
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
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	77.28	1.12	0.35

Test Graphs

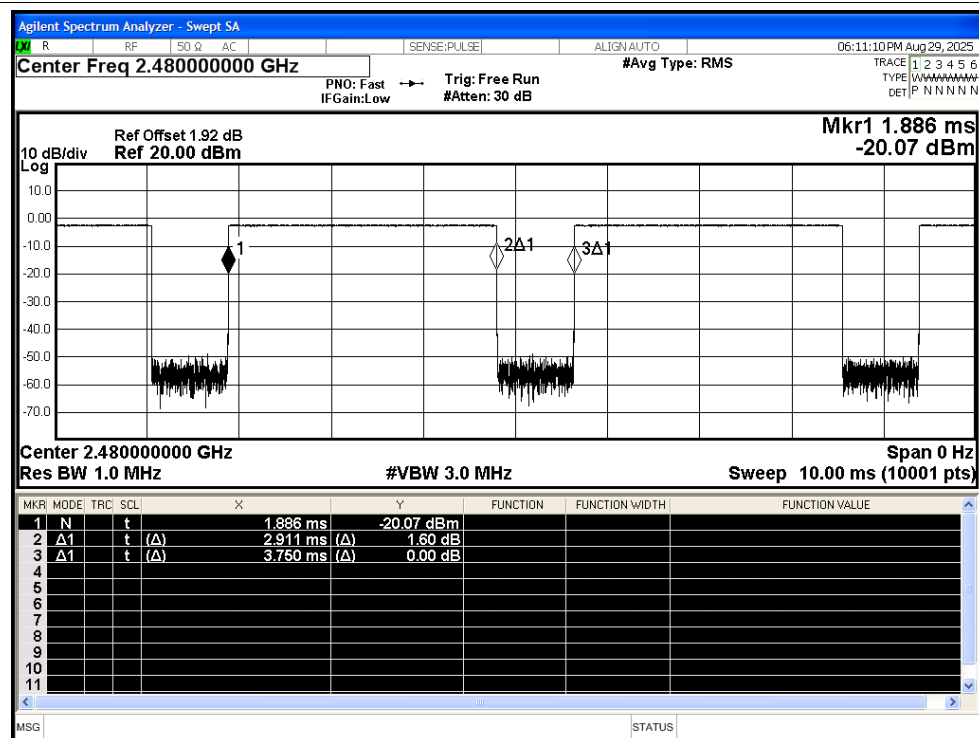
Duty Cycle NVNT 1-DH5 2402MHz Ant1



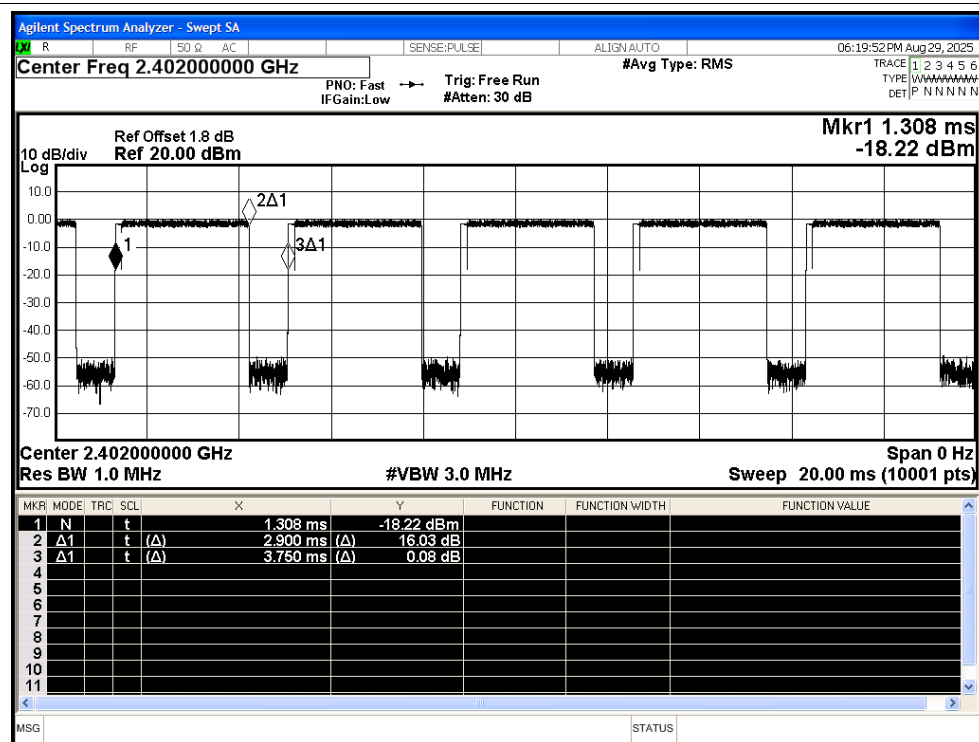
Duty Cycle NVNT 1-DH5 2441MHz Ant1



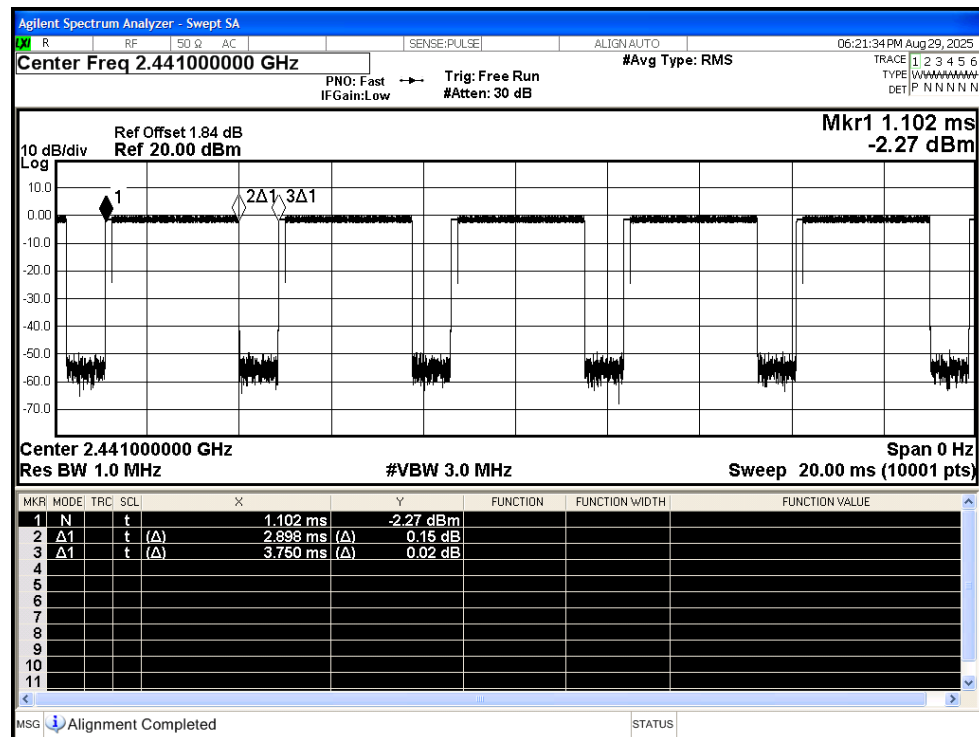
Duty Cycle NVNT 1-DH5 2480MHz Ant1



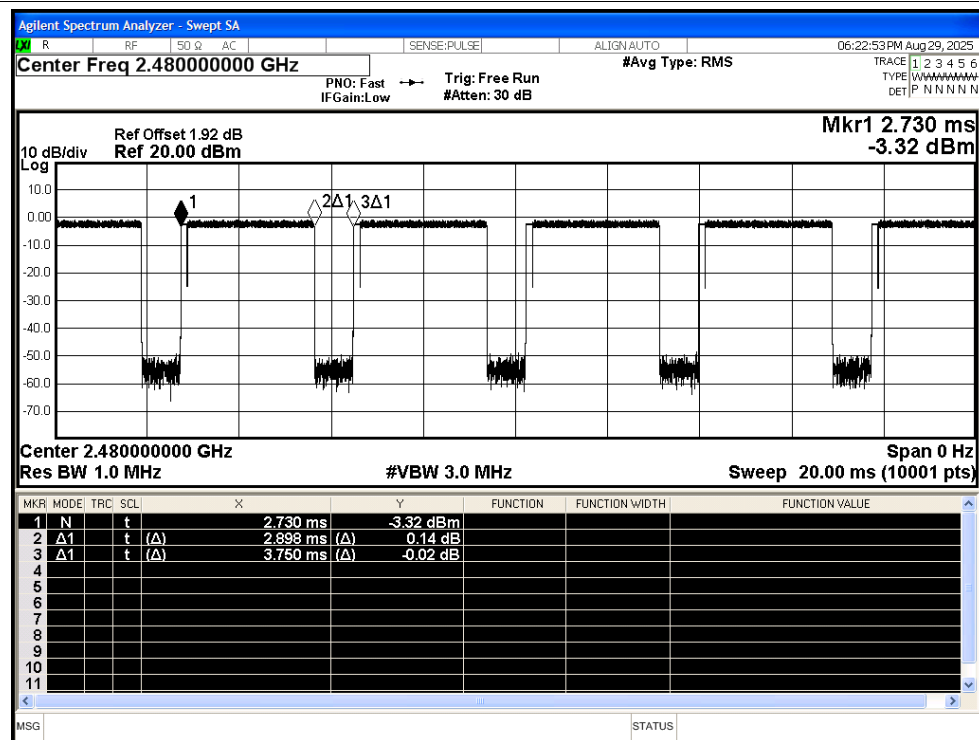
Duty Cycle NVNT 2-DH5 2402MHz Ant1



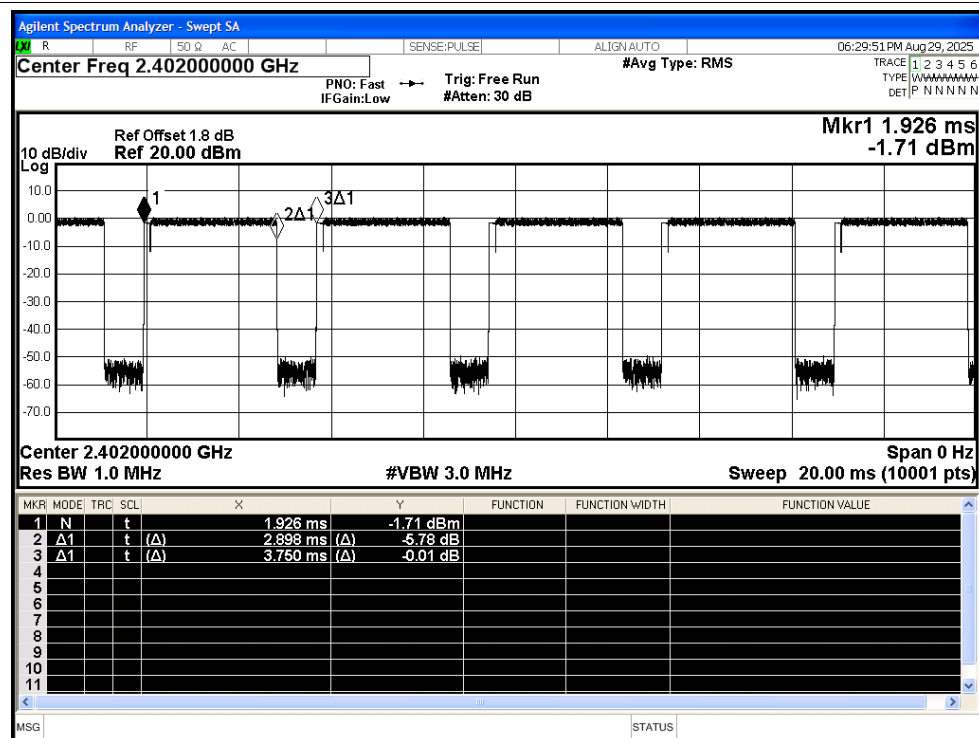
Duty Cycle NVNT 2-DH5 2441MHz Ant1



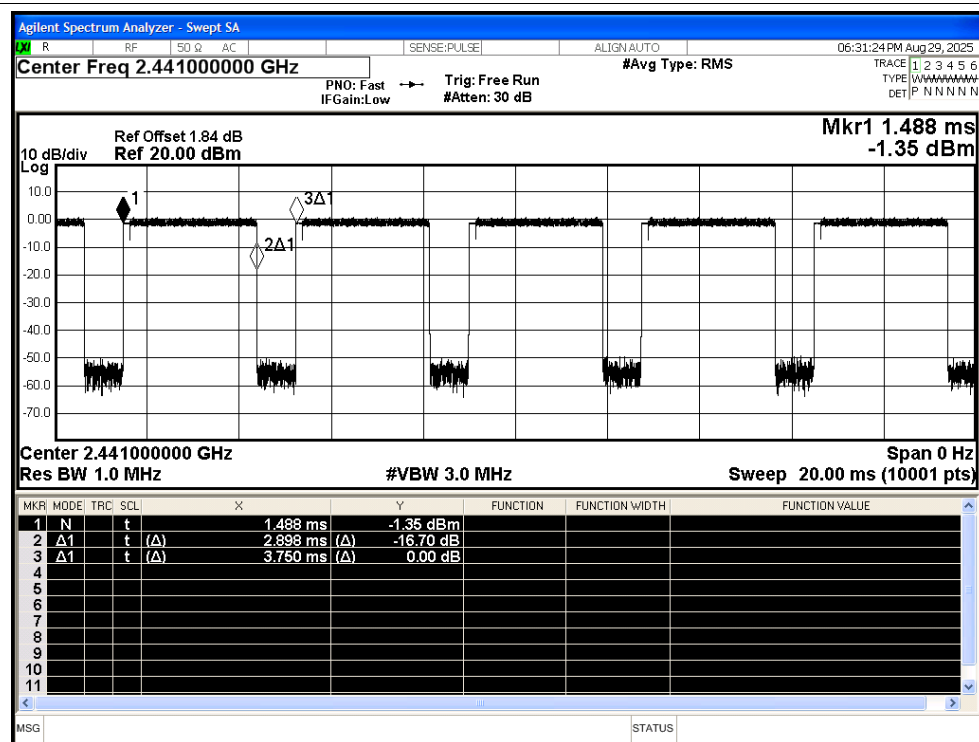
Duty Cycle NVNT 2-DH5 2480MHz Ant1

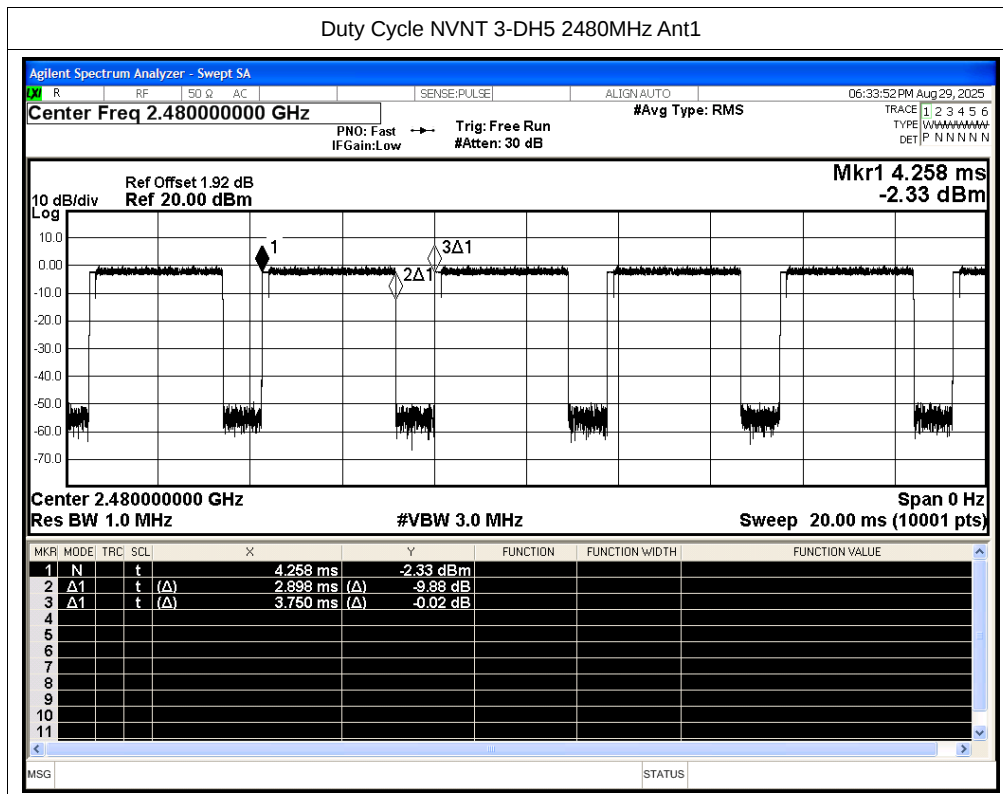


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



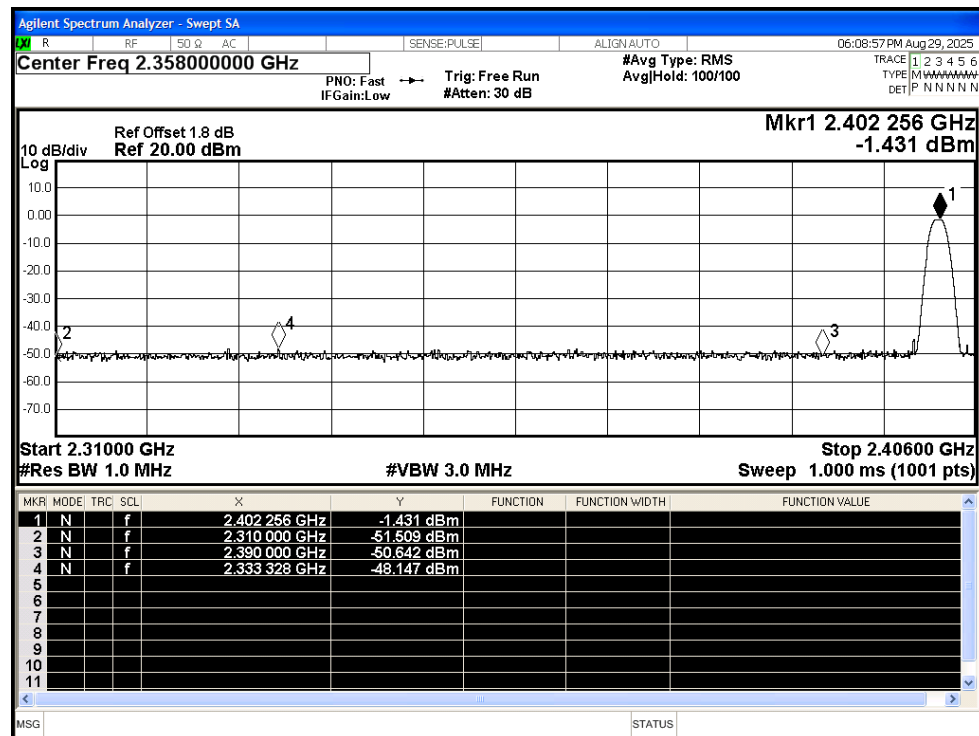


A.9 Restrict Band

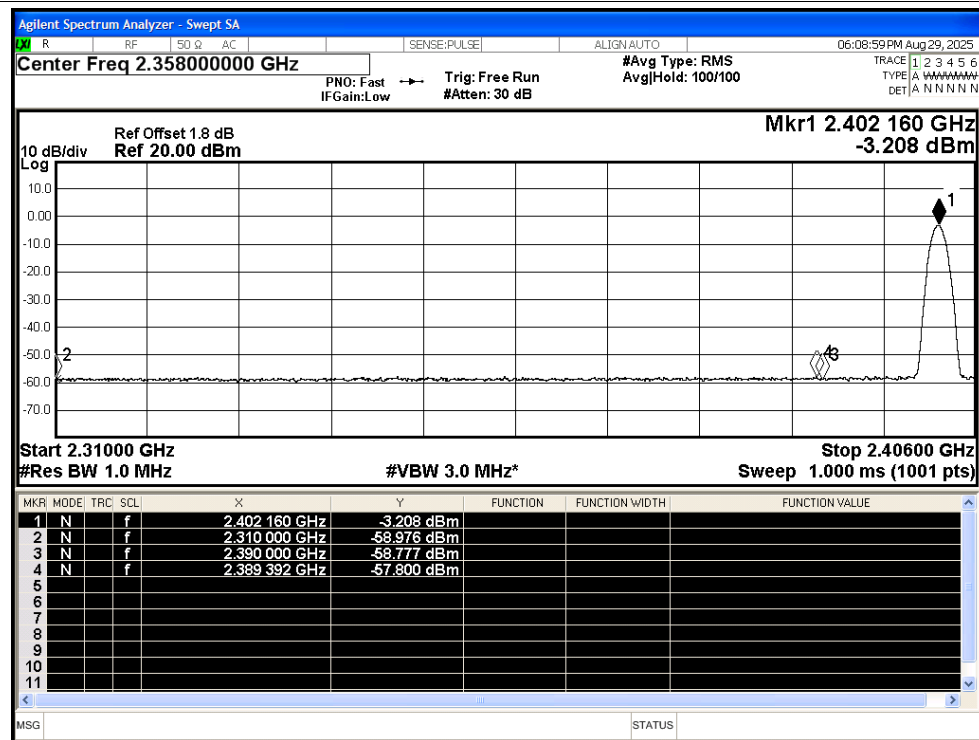
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.51	2.95	-	46.70	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.98	2.95	1.1	40.33	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2333.328	-48.15	2.95	-	50.06	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.392	-57.8	2.95	1.1	41.51	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.64	2.95	-	47.57	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.78	2.95	1.1	40.53	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.34	2.95	-	46.87	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.61	2.95	1.1	41.70	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.16	-46.65	2.95	-	51.56	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.808	-57.32	2.95	1.1	41.99	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.03	2.95	-	47.18	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.15	2.95	1.1	41.16	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.15	2.95	-	47.06	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.29	2.95	1.12	40.04	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2376.624	-47.33	2.95	-	50.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2358.384	-57.92	2.95	1.12	41.41	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.36	2.95	-	46.85	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.51	2.95	1.12	40.82	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.75	2.95	-	49.46	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.93	2.95	1.12	41.40	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.784	-47.13	2.95	-	51.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.216	-57.28	2.95	1.12	42.05	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.78	2.95	-	47.43	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.91	2.95	1.12	41.42	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.75	2.95	-	46.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.51	2.95	1.12	40.82	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2369.712	-47.08	2.95	-	51.13	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.432	-57.56	2.95	1.12	41.77	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.77	2.95	-	47.44	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.42	2.95	1.12	40.91	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.88	2.95	-	48.33	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.2	2.95	1.12	42.13	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.608	-46.37	2.95	-	51.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.92	-57.19	2.95	1.12	42.14	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-51.05	2.95	-	47.16	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.46	2.95	1.12	41.87	Average	54	Pass

Test Graphs

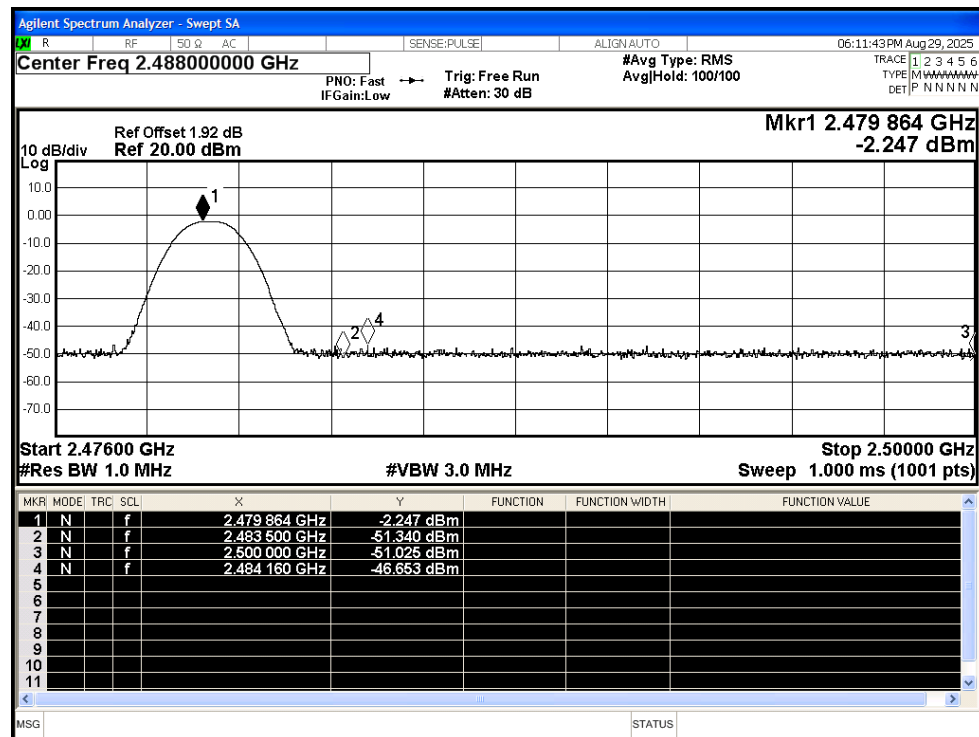
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



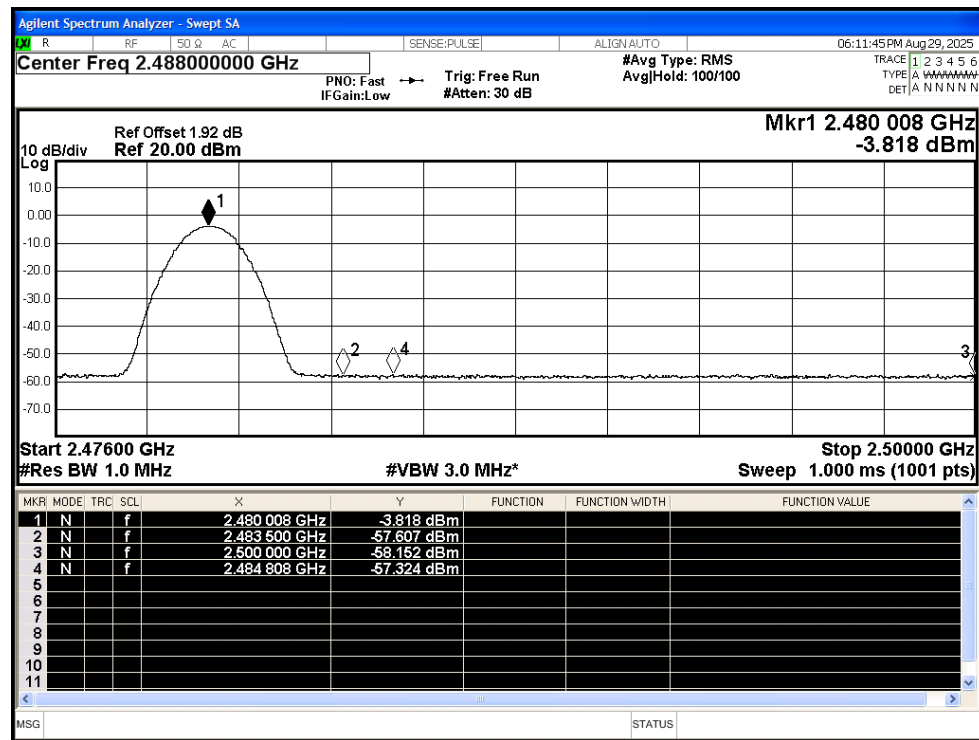
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



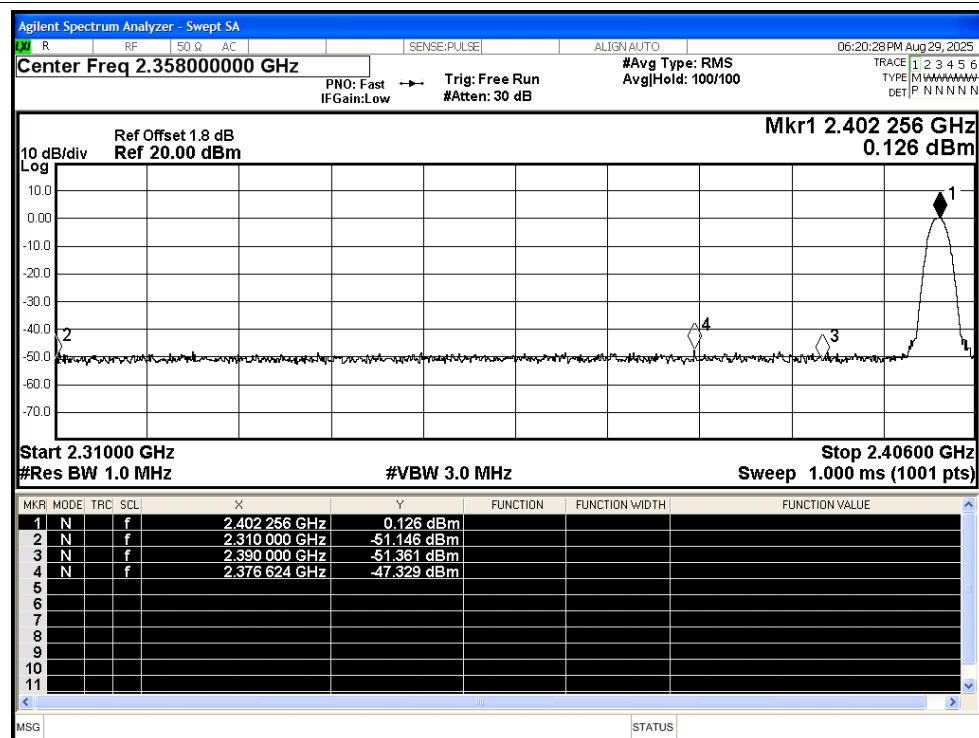
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



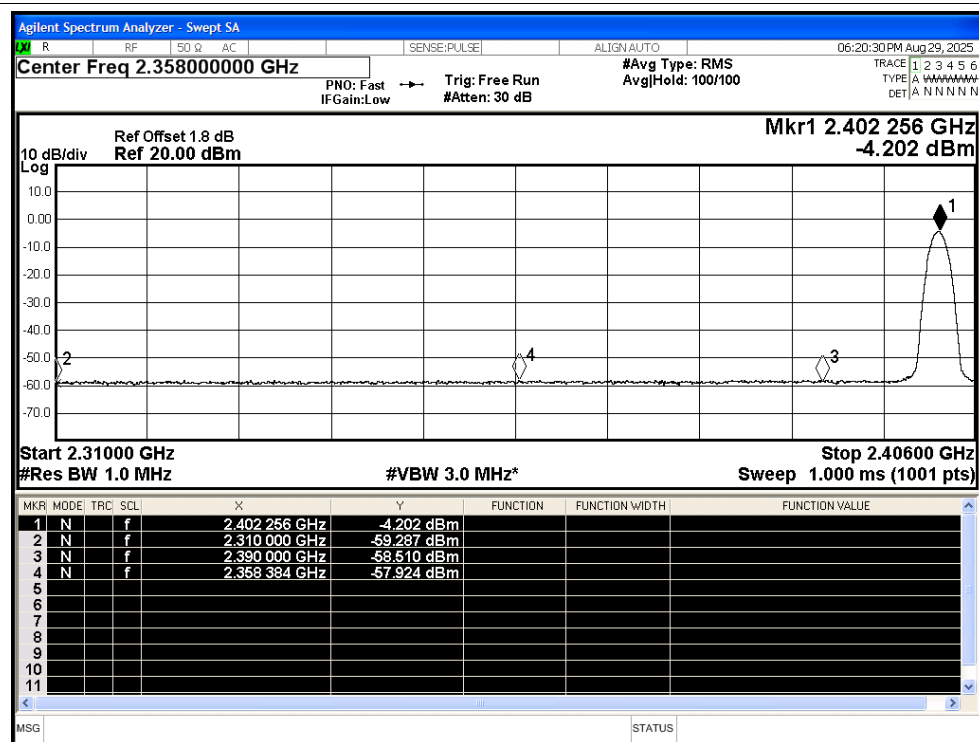
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



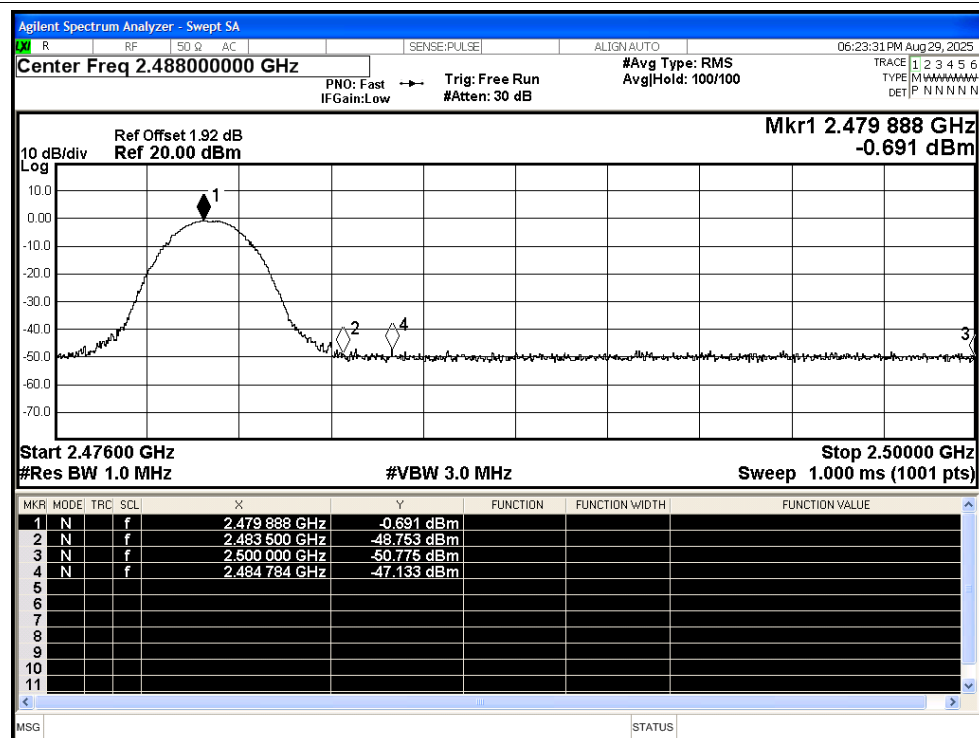
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



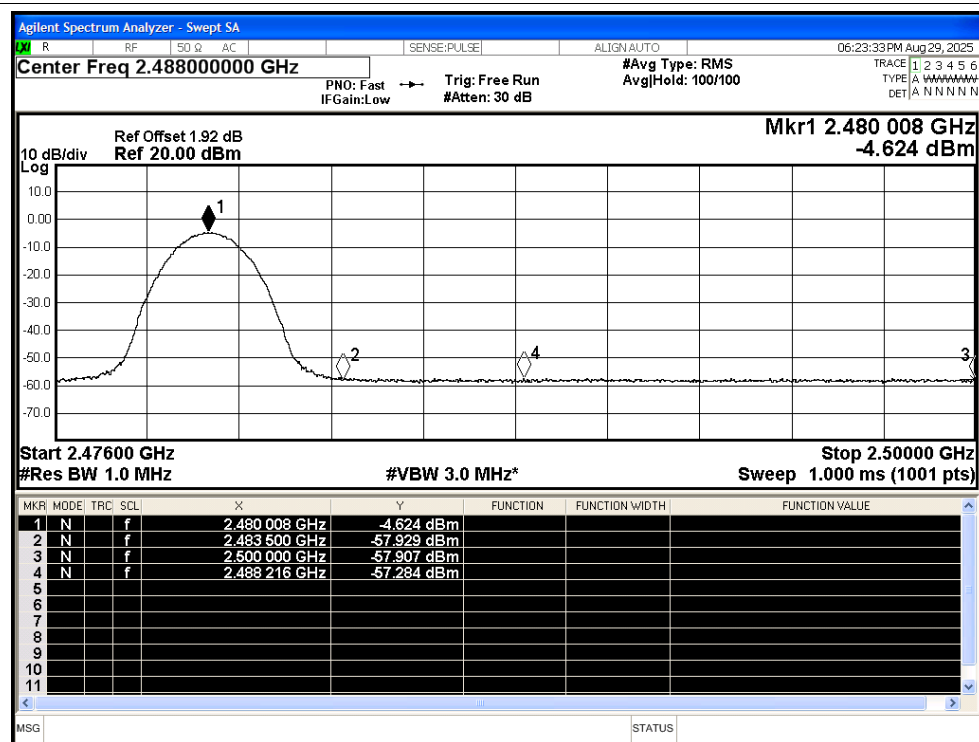
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



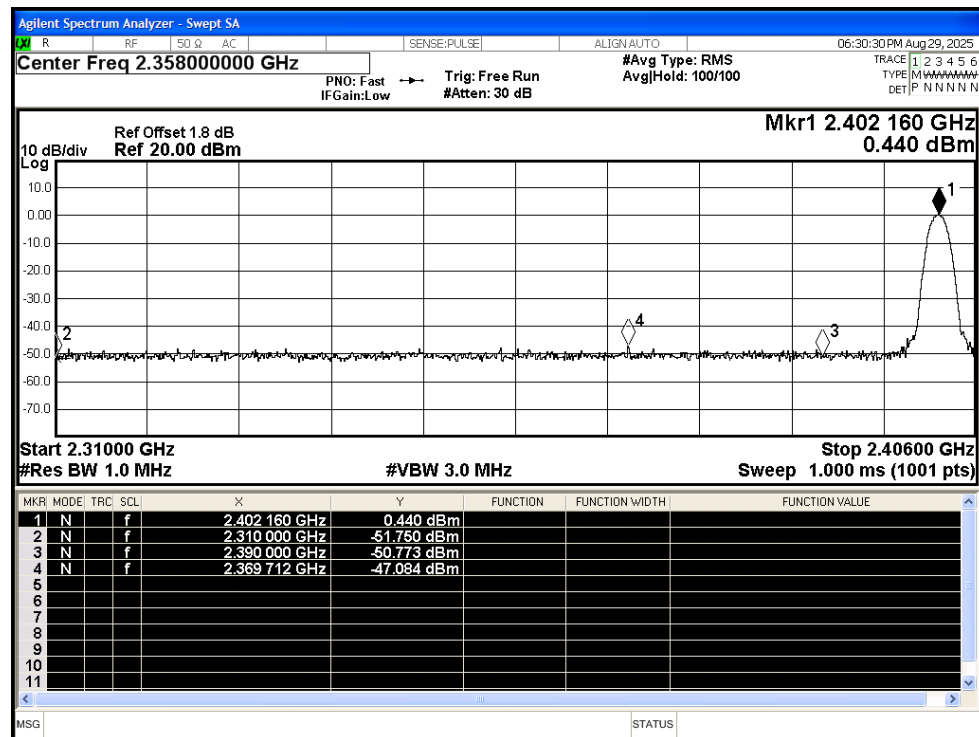
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



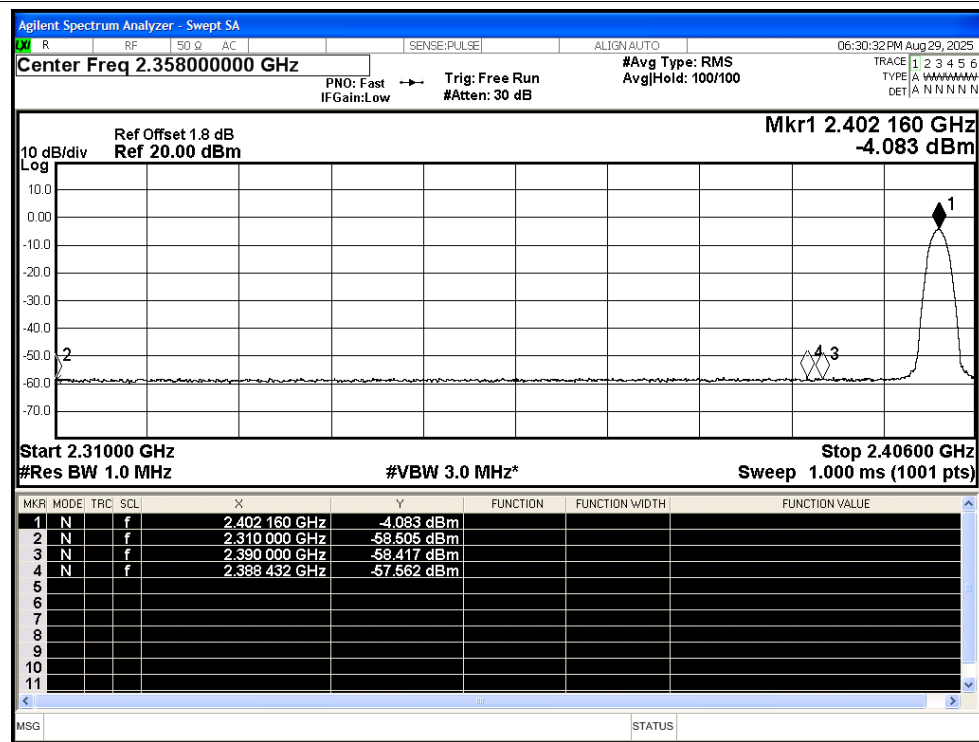
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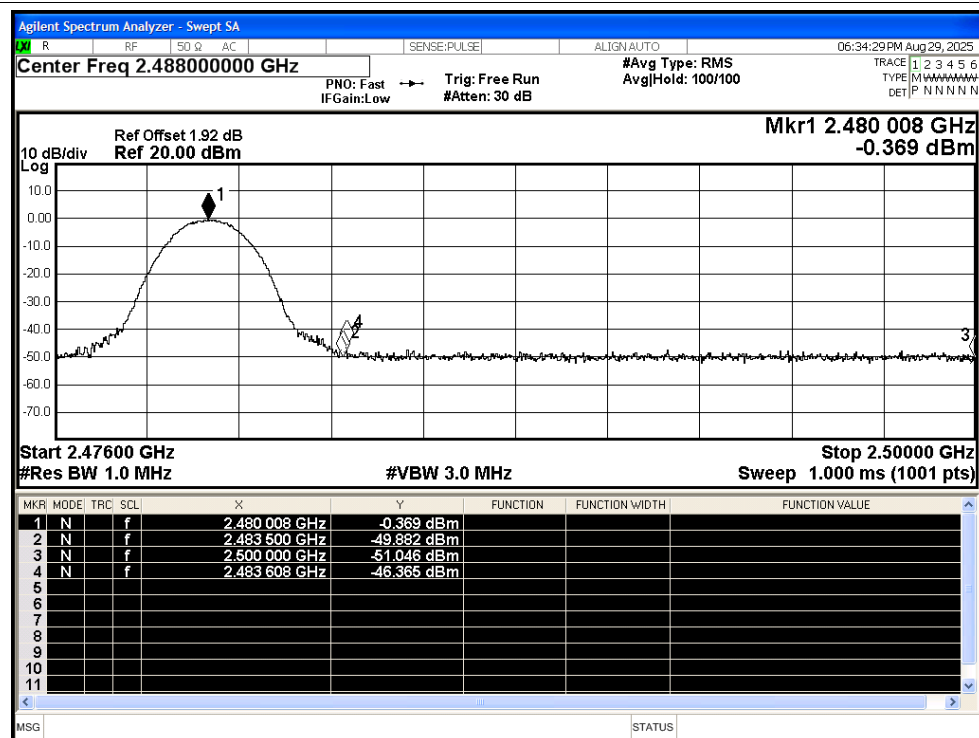
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



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

