



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Headset

Test Model: EH02

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan



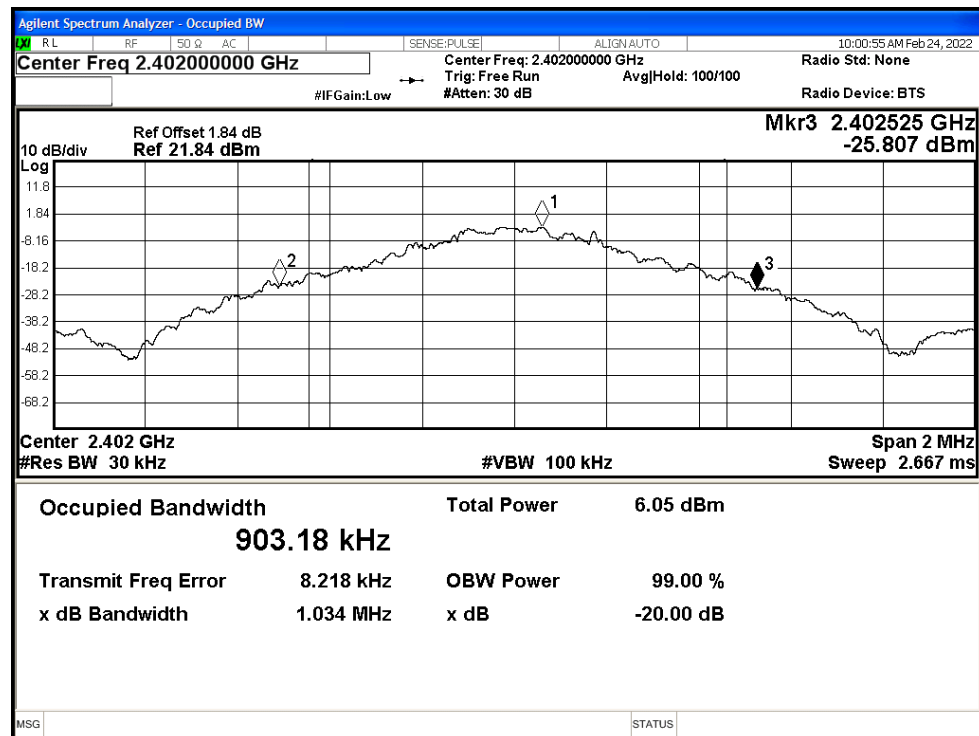
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.034	No Limit	Pass
NVNT	1-DH5	2441	Ant1	1.036	No Limit	Pass
NVNT	1-DH5	2480	Ant1	0.961	No Limit	Pass
NVNT	2-DH5	2402	Ant1	1.287	No Limit	Pass
NVNT	2-DH5	2441	Ant1	1.312	No Limit	Pass
NVNT	2-DH5	2480	Ant1	1.28	No Limit	Pass
NVNT	3-DH5	2402	Ant1	1.289	No Limit	Pass
NVNT	3-DH5	2441	Ant1	1.301	No Limit	Pass
NVNT	3-DH5	2480	Ant1	1.309	No Limit	Pass



Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

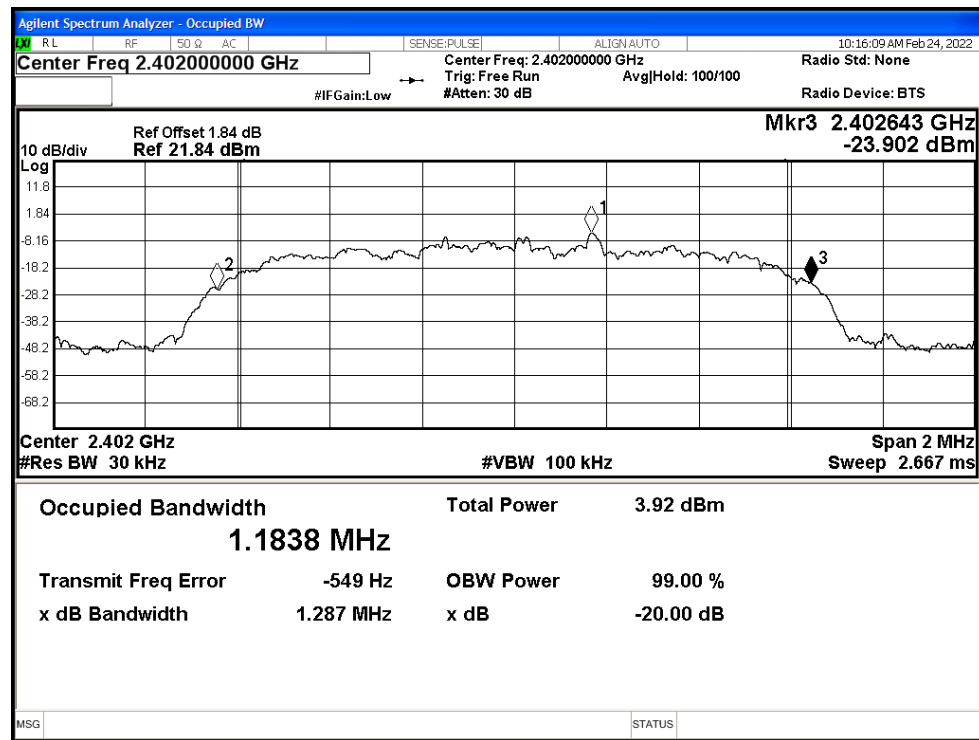




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

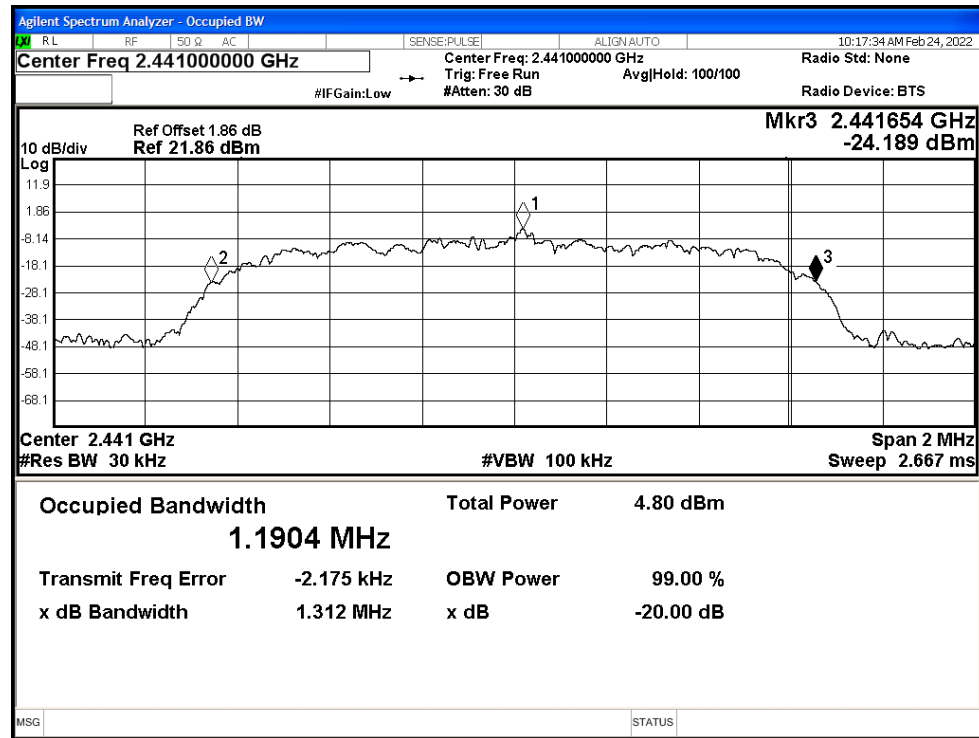


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

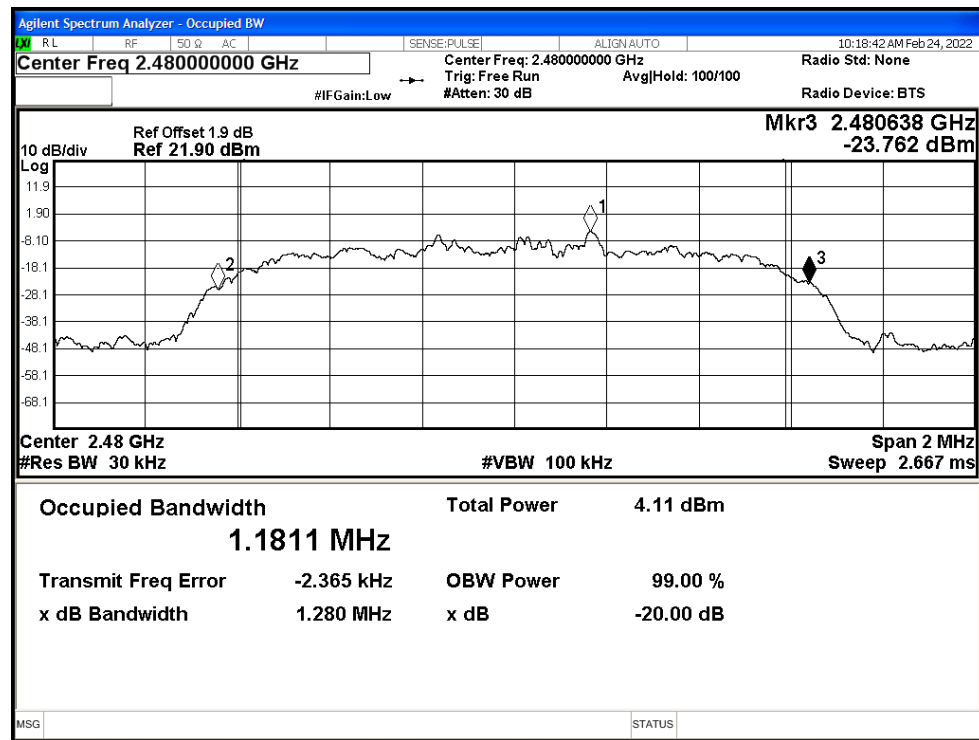




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

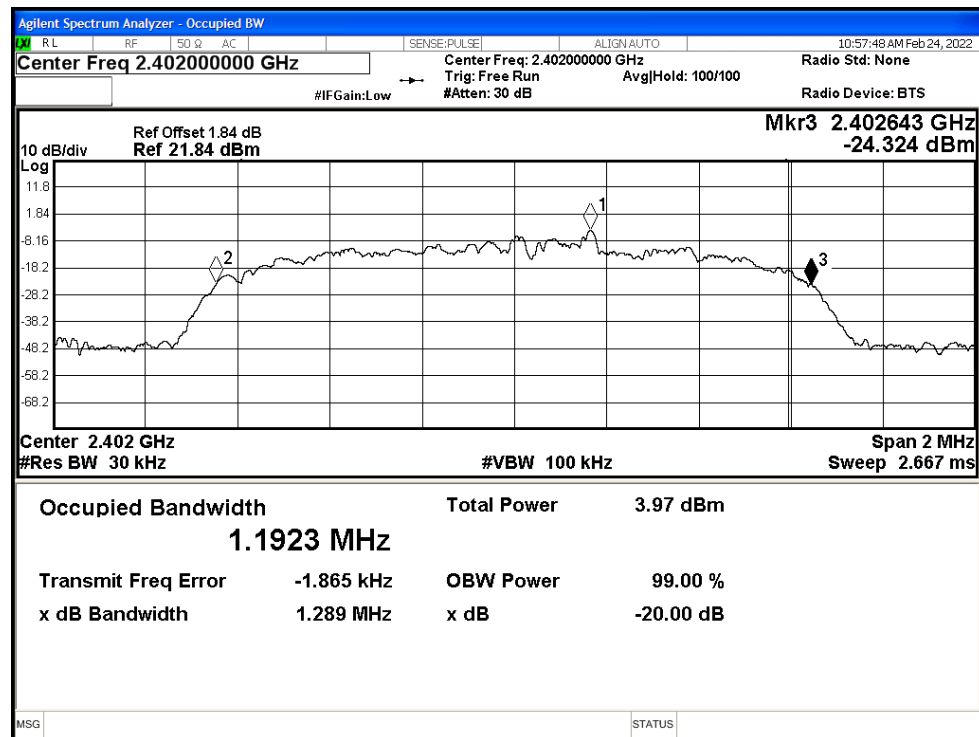


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

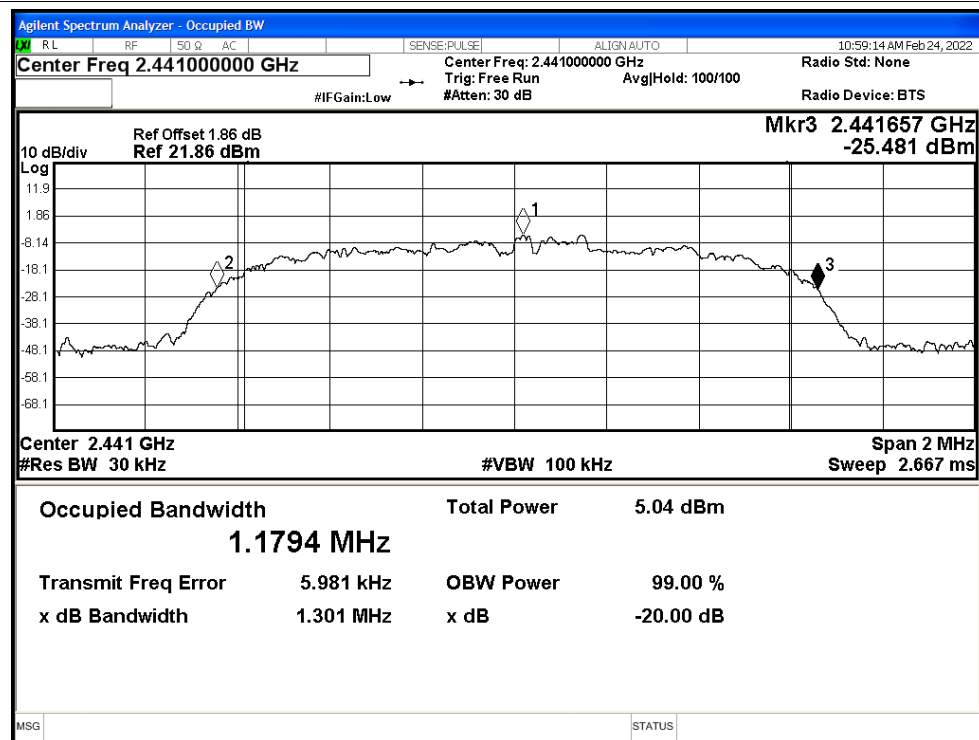


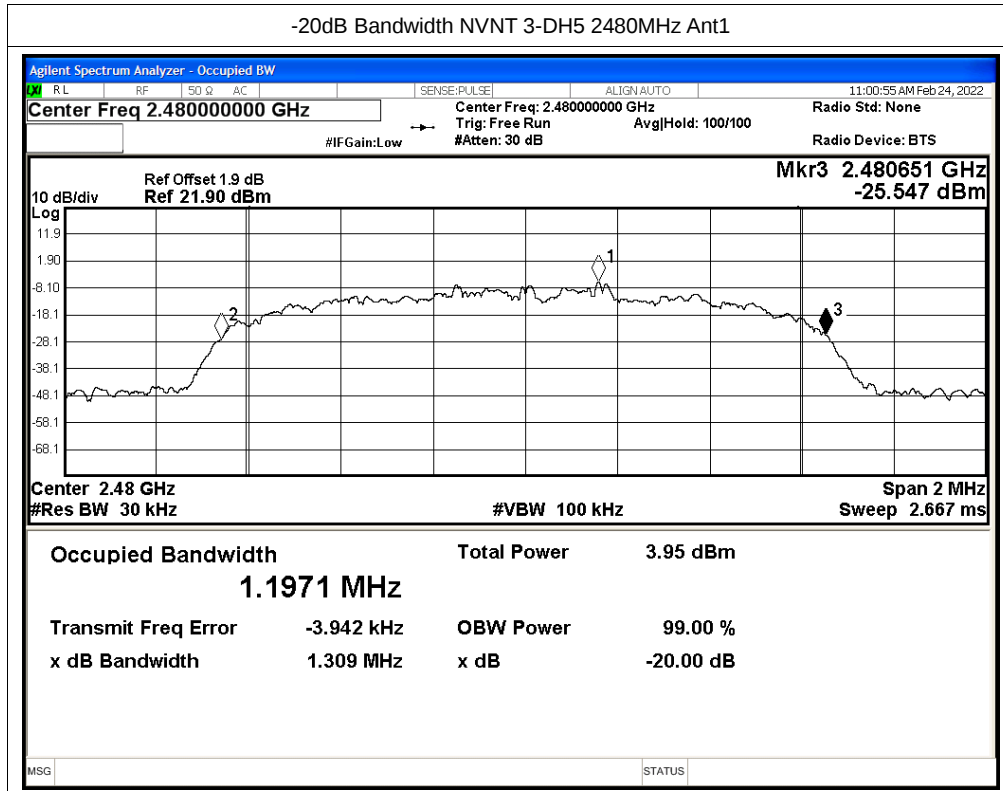


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







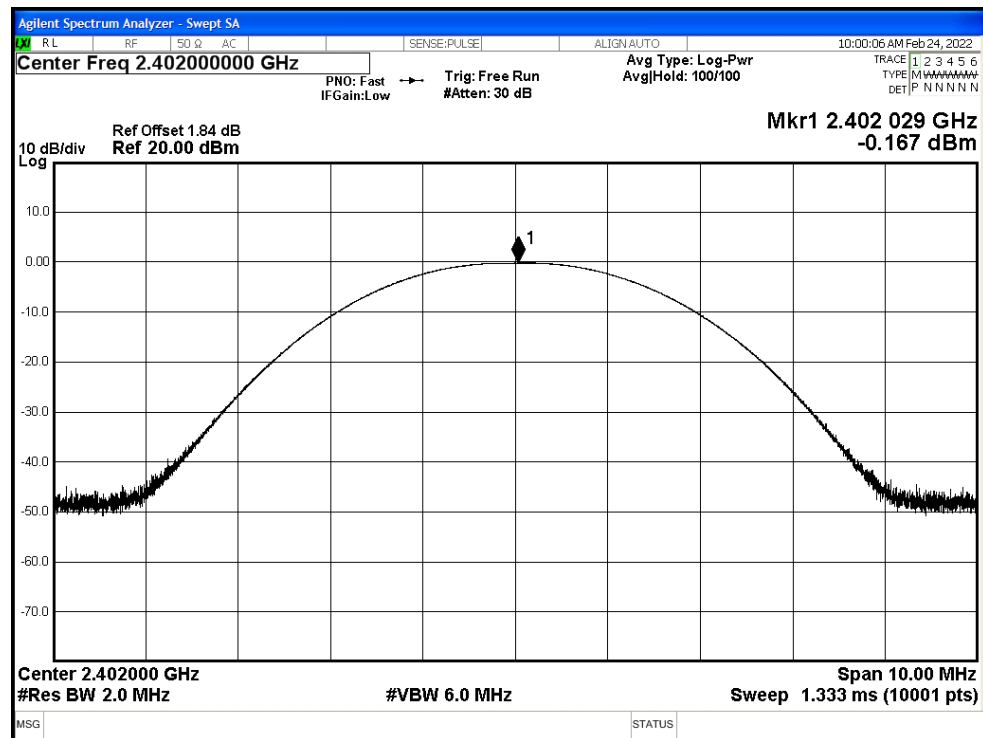
A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.17	0	-0.17	21	Pass
NVNT	1-DH5	2441	Ant1	1.34	0	1.34	21	Pass
NVNT	1-DH5	2480	Ant1	0.02	0	0.02	21	Pass
NVNT	2-DH5	2402	Ant1	-1.03	0	-1.03	21	Pass
NVNT	2-DH5	2441	Ant1	0.45	0	0.45	21	Pass
NVNT	2-DH5	2480	Ant1	-0.82	0	-0.82	21	Pass
NVNT	3-DH5	2402	Ant1	-0.79	0	-0.79	21	Pass
NVNT	3-DH5	2441	Ant1	0.58	0	0.58	21	Pass
NVNT	3-DH5	2480	Ant1	-0.76	0	-0.76	21	Pass

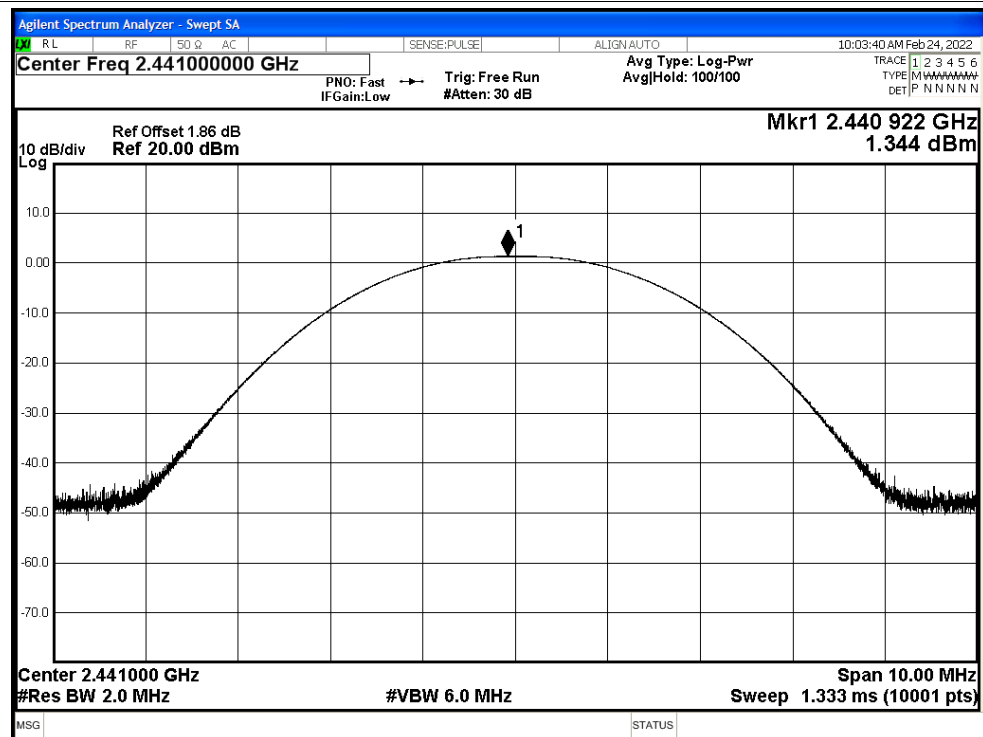


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

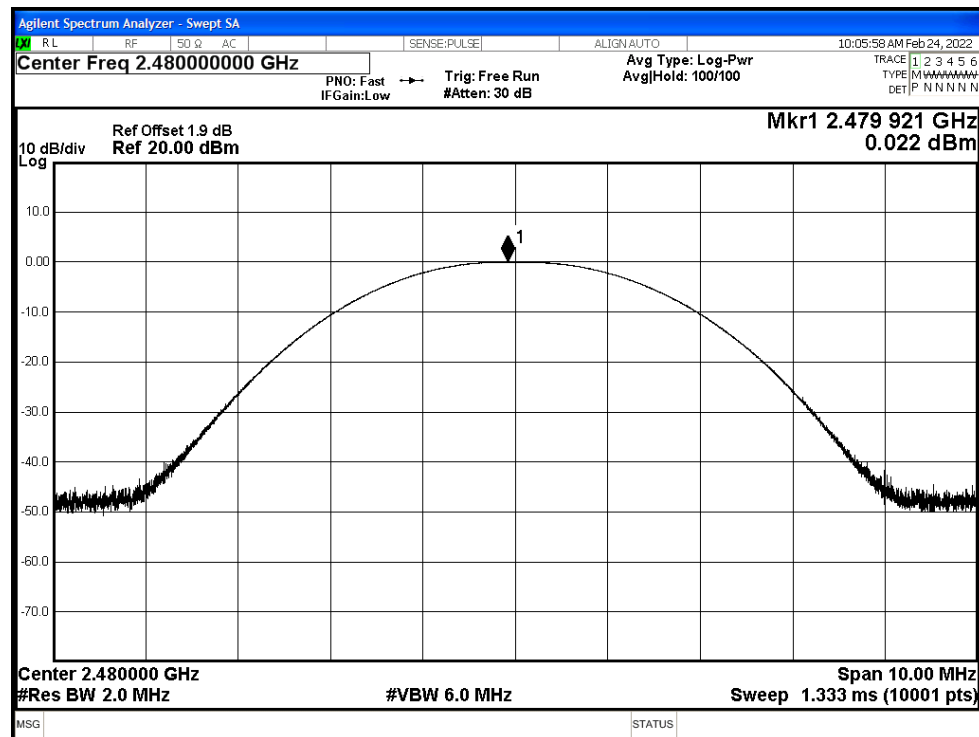


Power NVNT 1-DH5 2441MHz Ant1

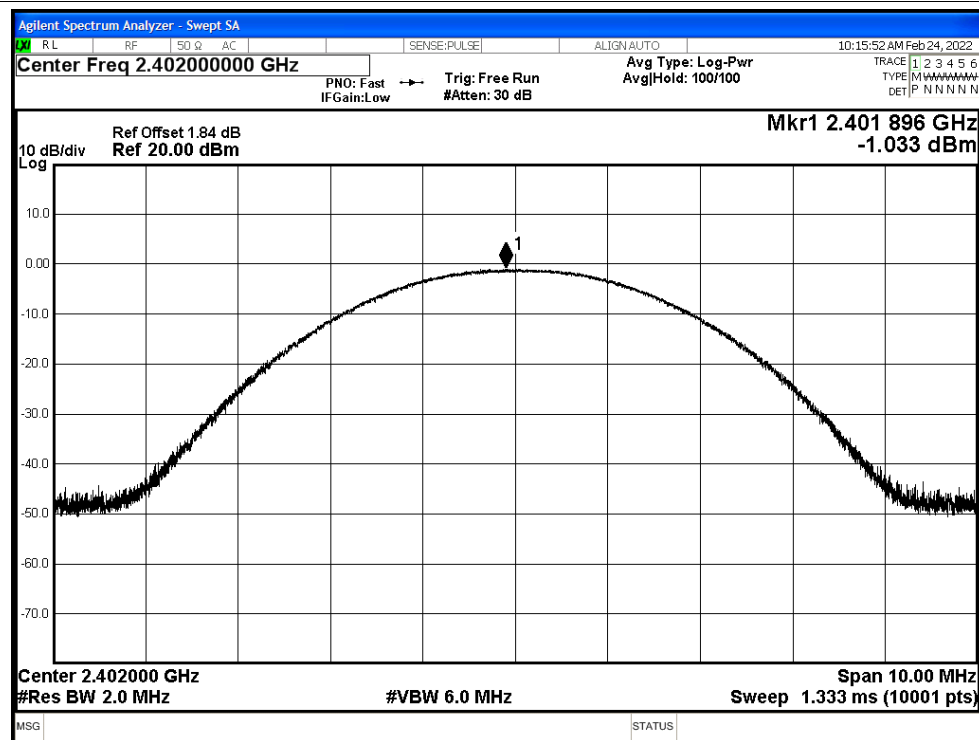




Power NVNT 1-DH5 2480MHz Ant1

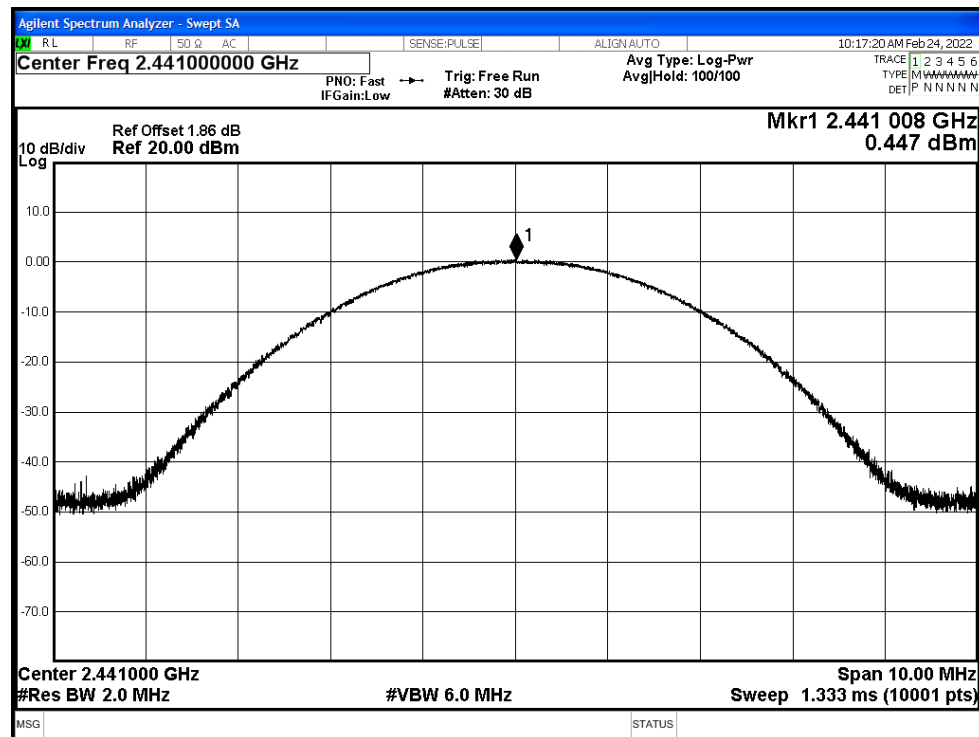


Power NVNT 2-DH5 2402MHz Ant1

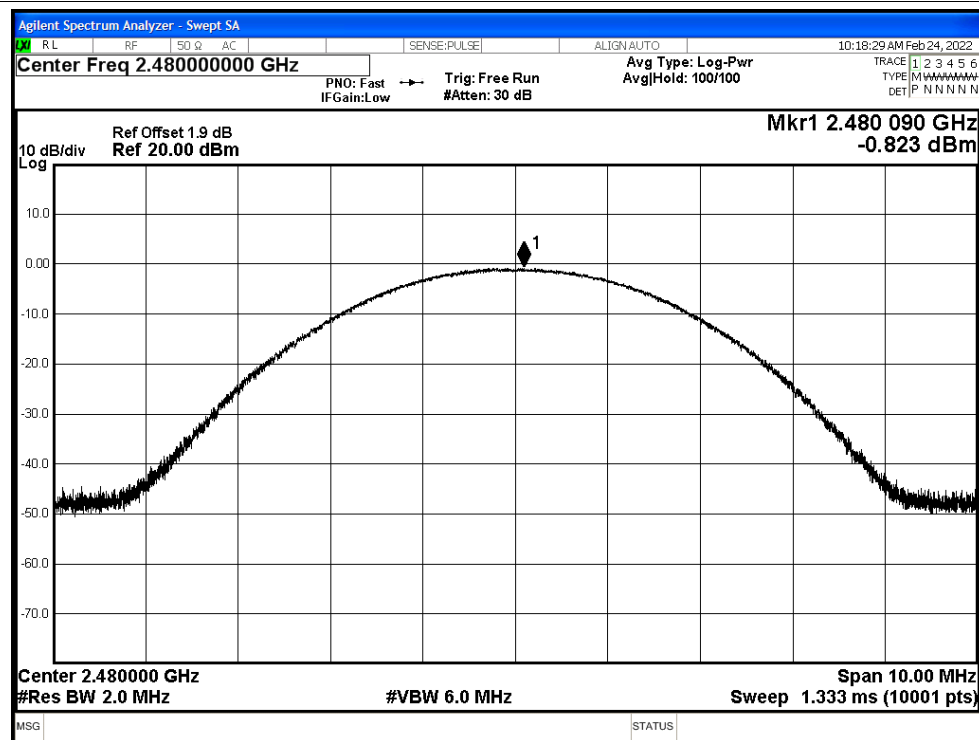




Power NVNT 2-DH5 2441MHz Ant1

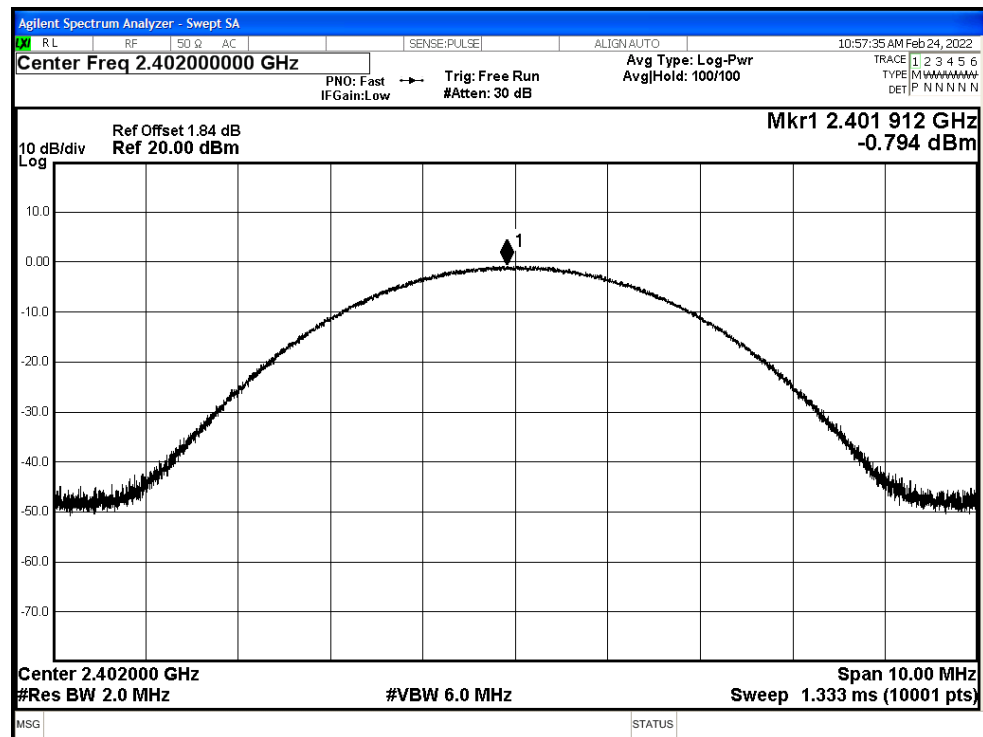


Power NVNT 2-DH5 2480MHz Ant1

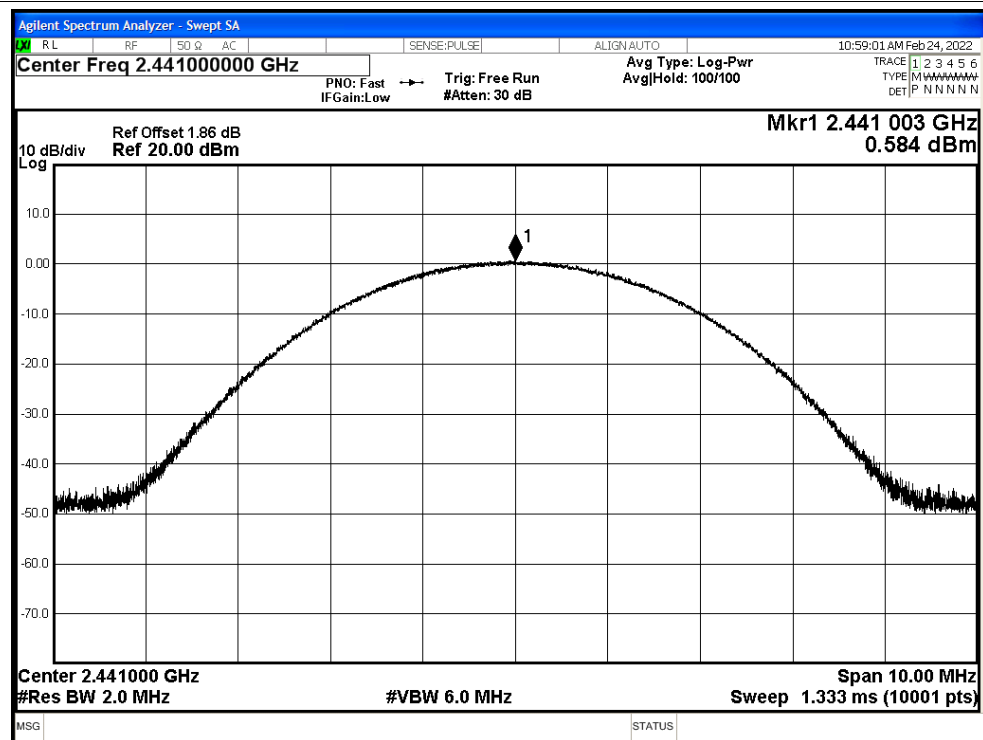


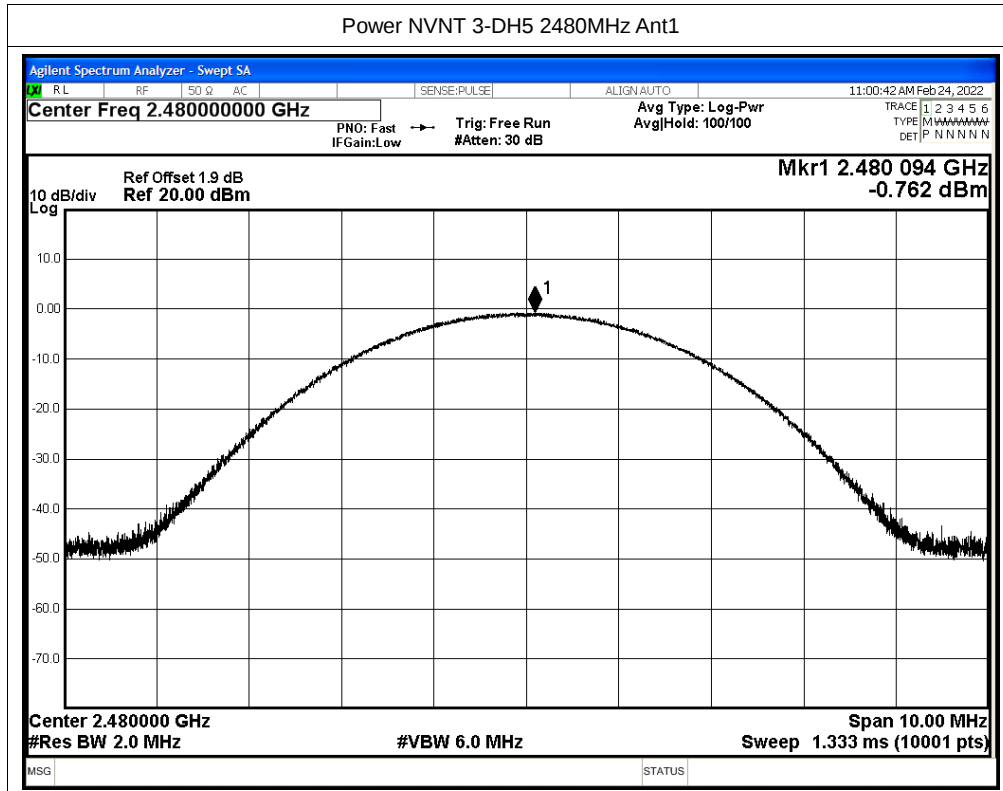


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







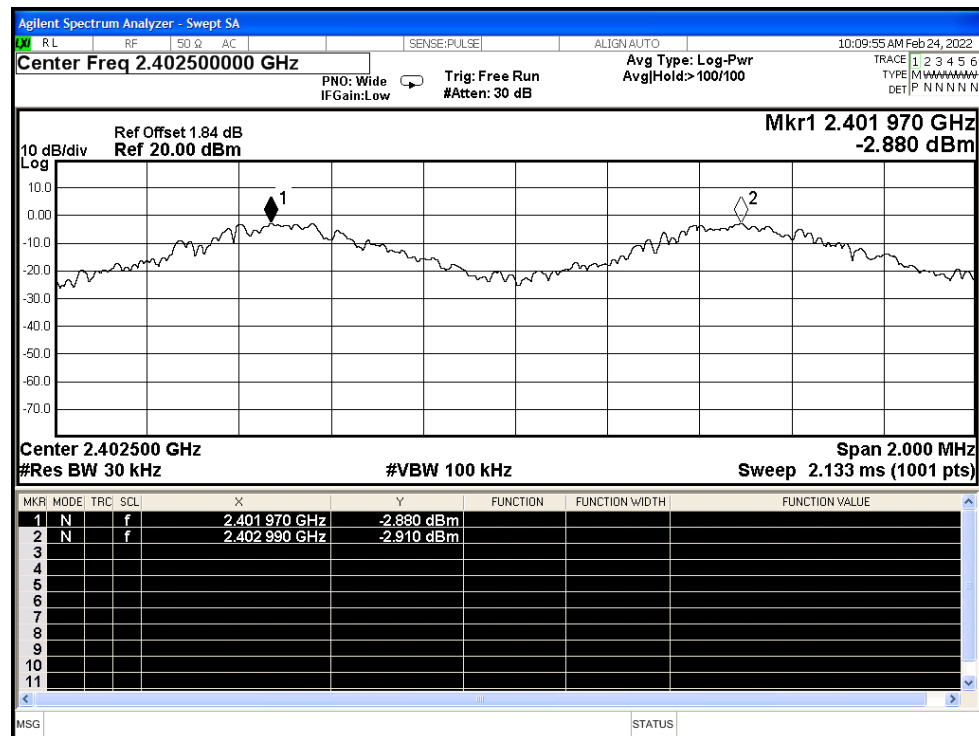
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.97	2402.99	1.02	0.689	Pass
NVNT	1-DH5	Ant1	2441.014	2441.972	0.958	0.691	Pass
NVNT	1-DH5	Ant1	2478.97	2480.012	1.042	0.641	Pass
NVNT	2-DH5	Ant1	2401.83	2403.334	1.504	0.858	Pass
NVNT	2-DH5	Ant1	2441.16	2442.168	1.008	0.875	Pass
NVNT	2-DH5	Ant1	2479.16	2480.16	1	0.853	Pass
NVNT	3-DH5	Ant1	2402.1	2403.126	1.026	0.025	Pass
NVNT	3-DH5	Ant1	2441.156	2442.154	0.998	0.025	Pass
NVNT	3-DH5	Ant1	2479.148	2480.036	0.888	0.025	Pass

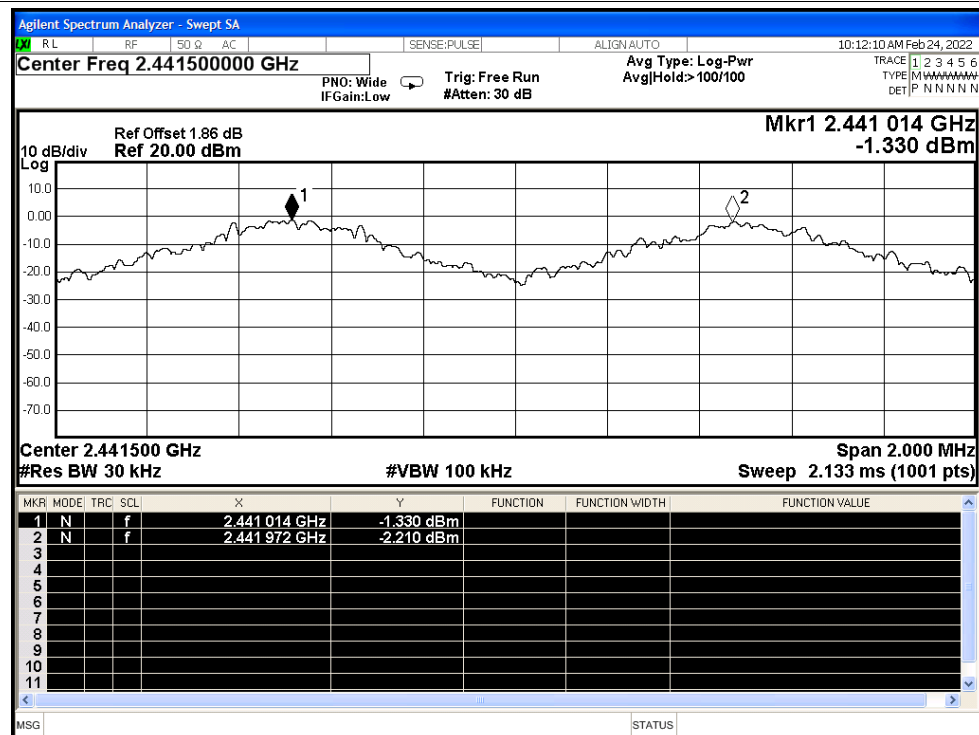


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

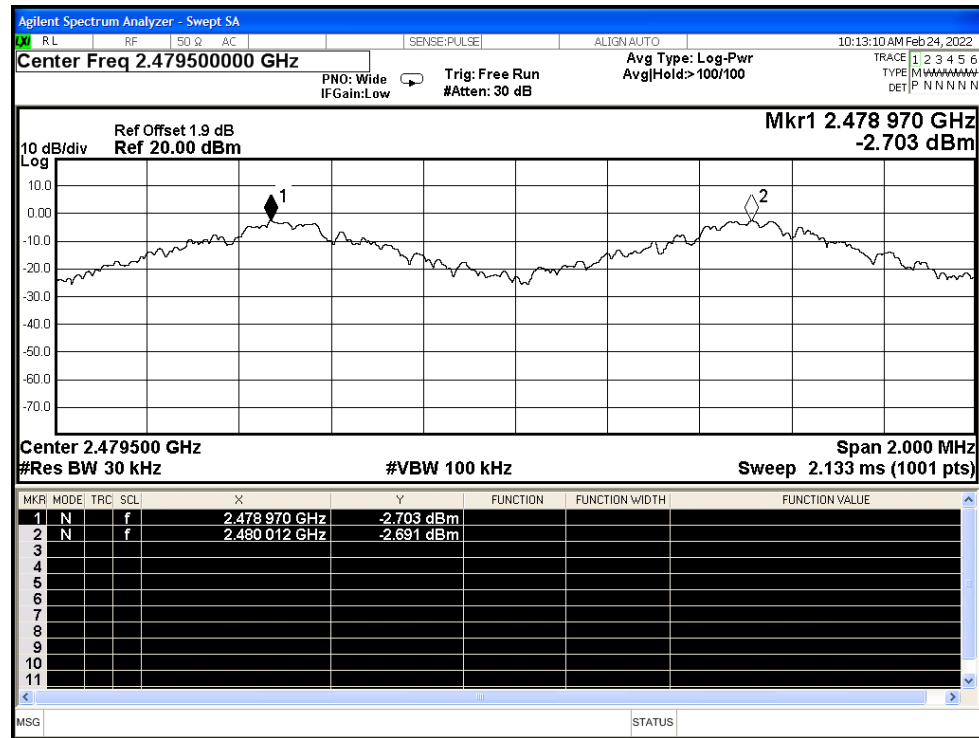


CFS NVNT 1-DH5 2441MHz Ant1

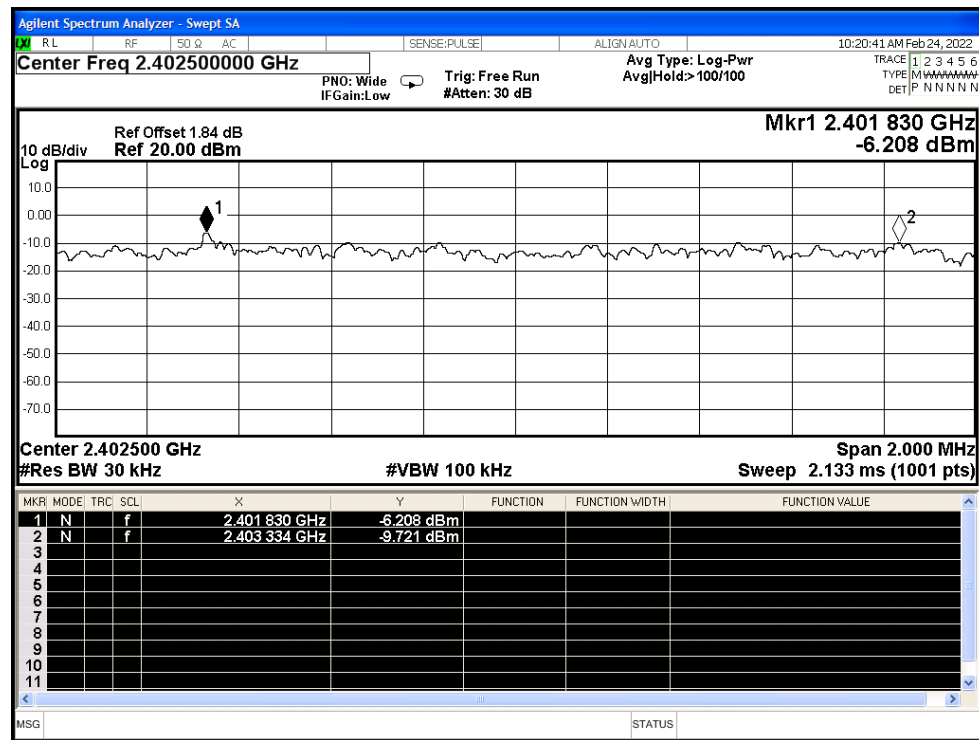




CFS NVNT 1-DH5 2480MHz Ant1

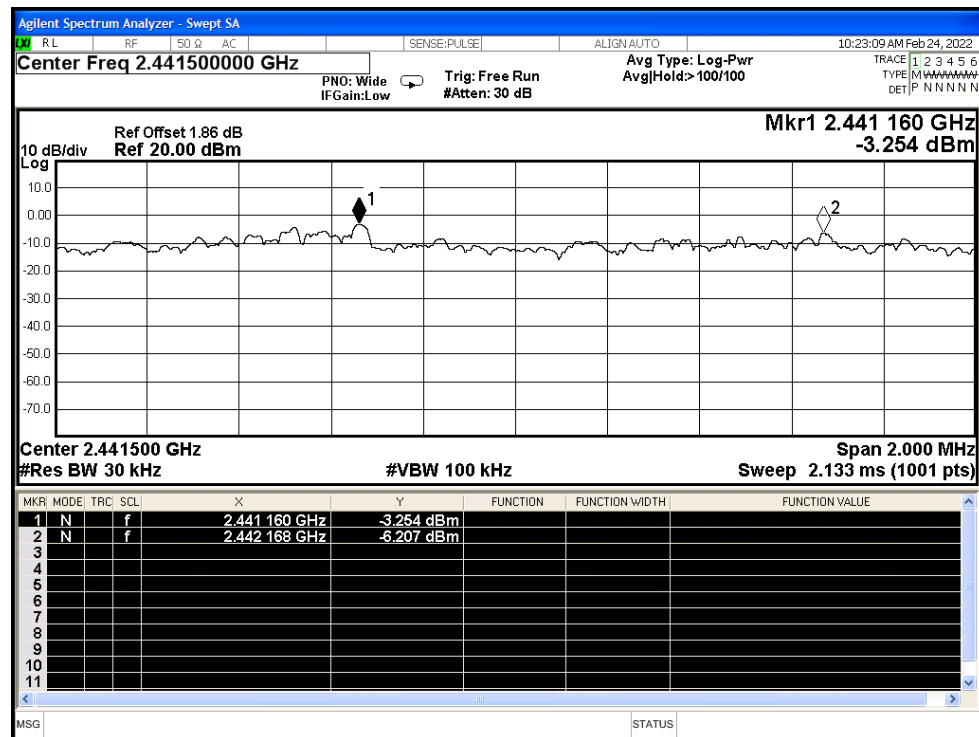


CFS NVNT 2-DH5 2402MHz Ant1

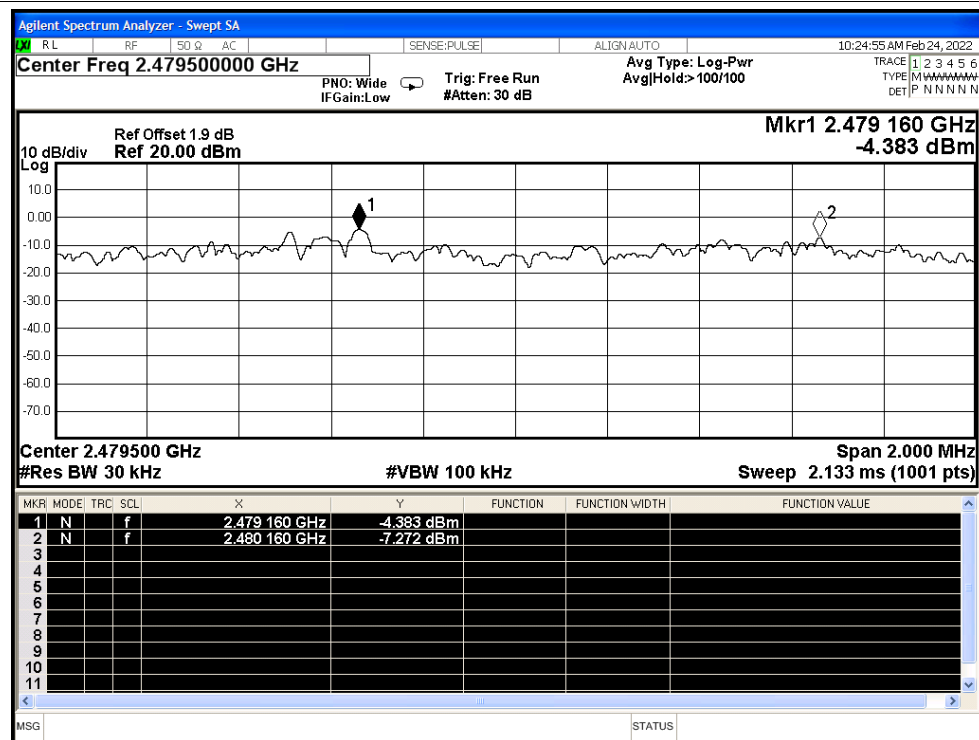




CFS NVNT 2-DH5 2441MHz Ant1

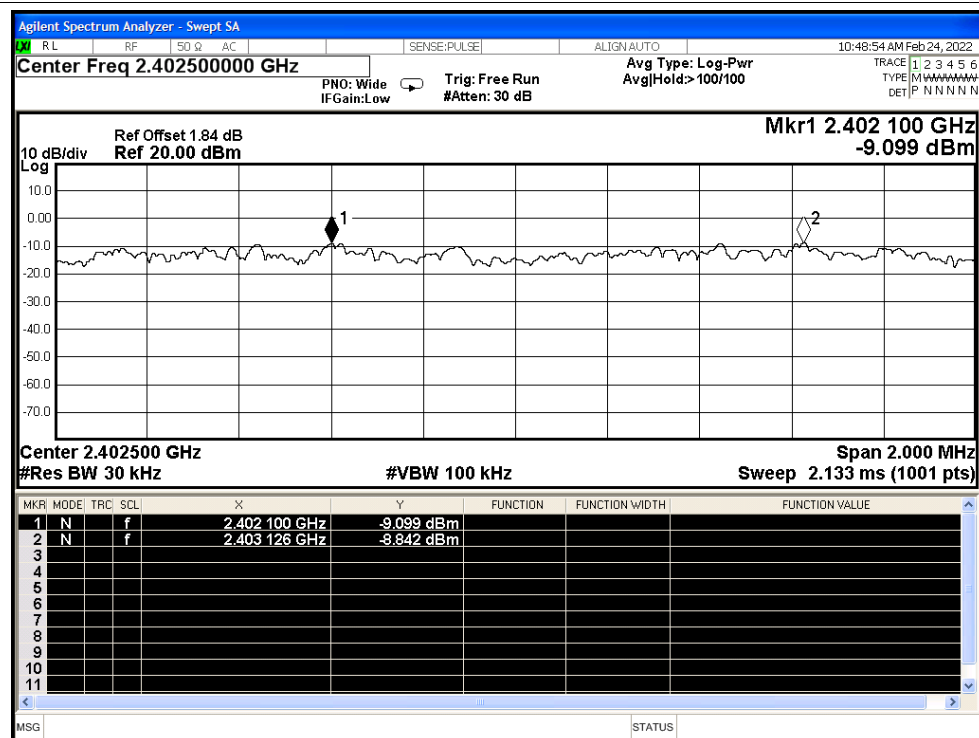


CFS NVNT 2-DH5 2480MHz Ant1

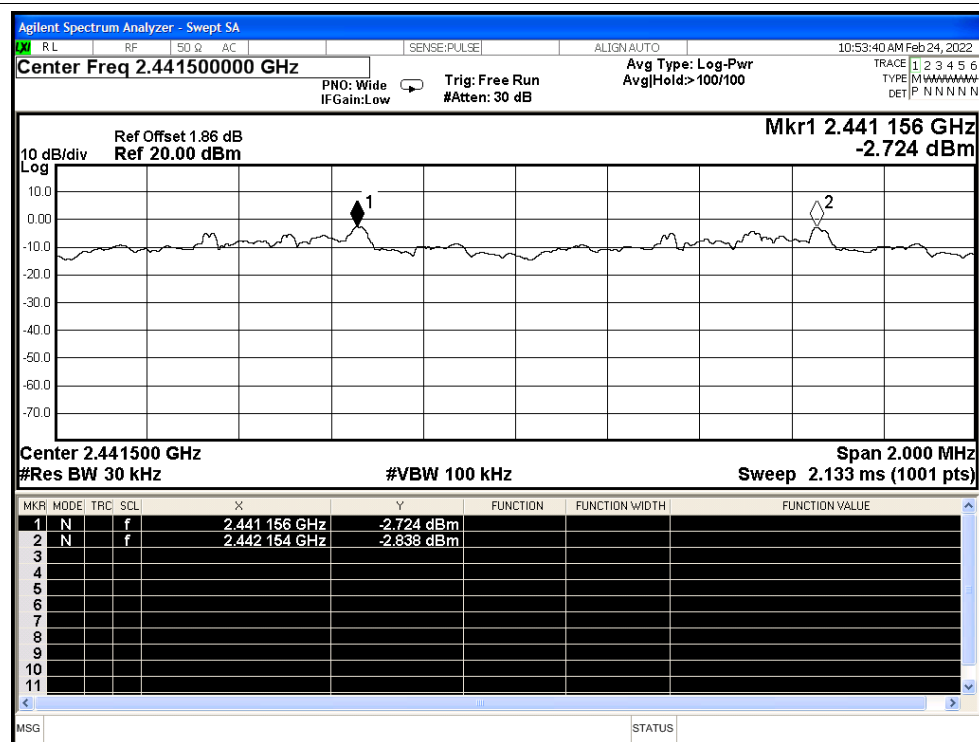


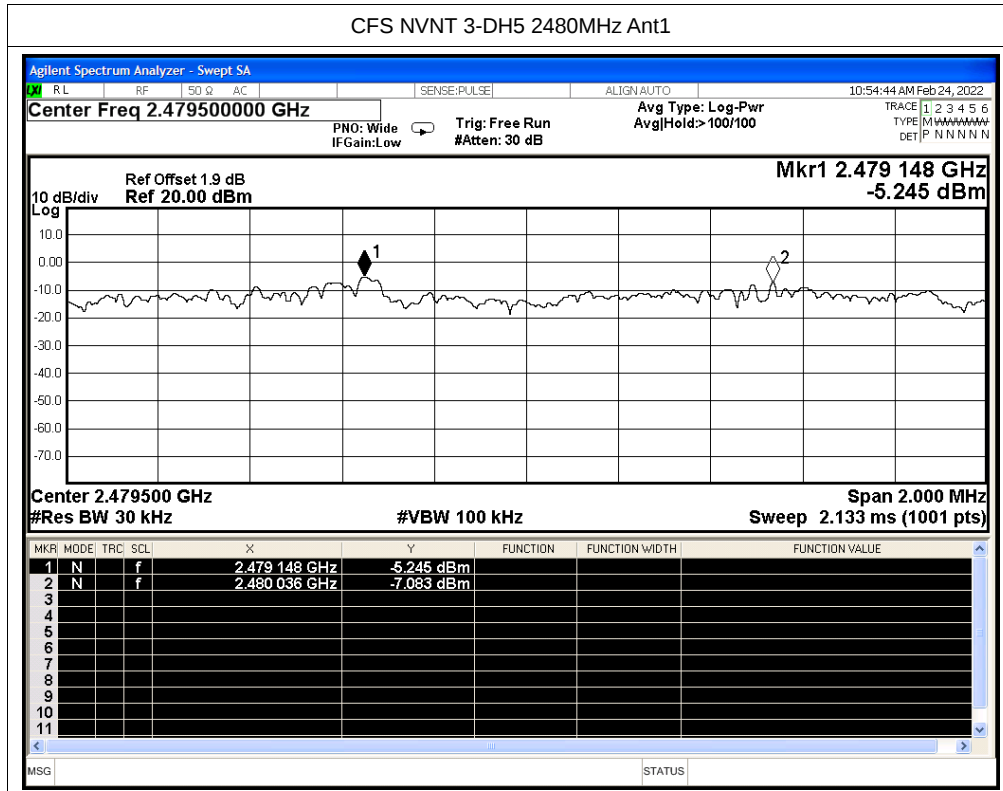


CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1







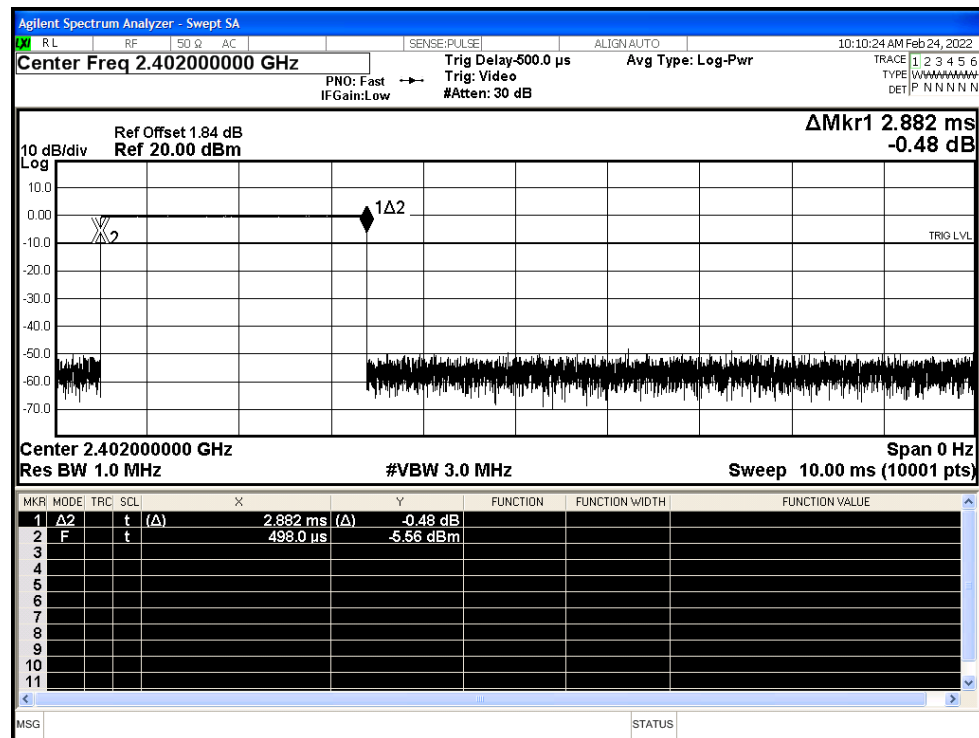
A.4 Dwell Time

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	2.882	331.43	115	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	305.492	106	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	293.964	102	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	308.695	107	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	297.155	103	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.882	311.256	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	305.916	106	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	320.457	111	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	326.231	113	31600	400	Pass

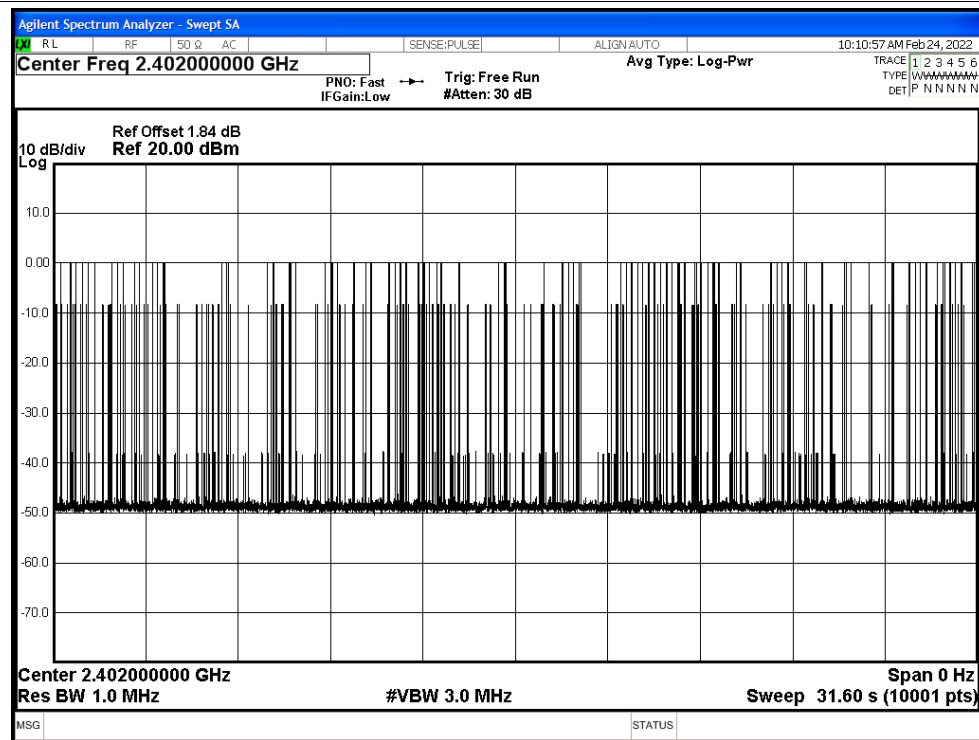


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

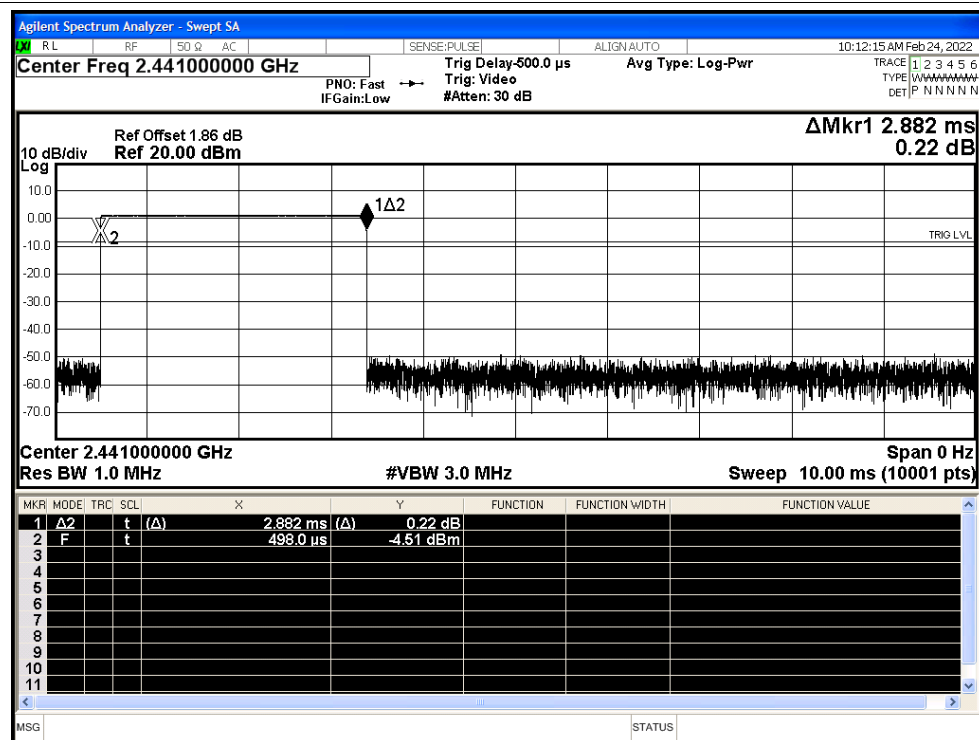


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

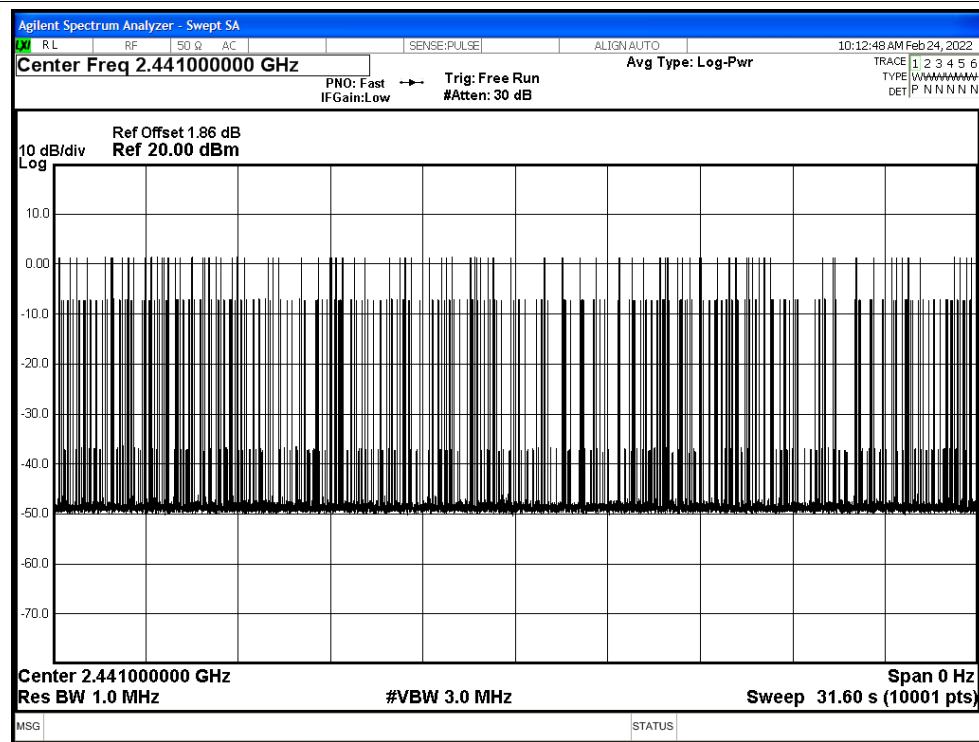




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

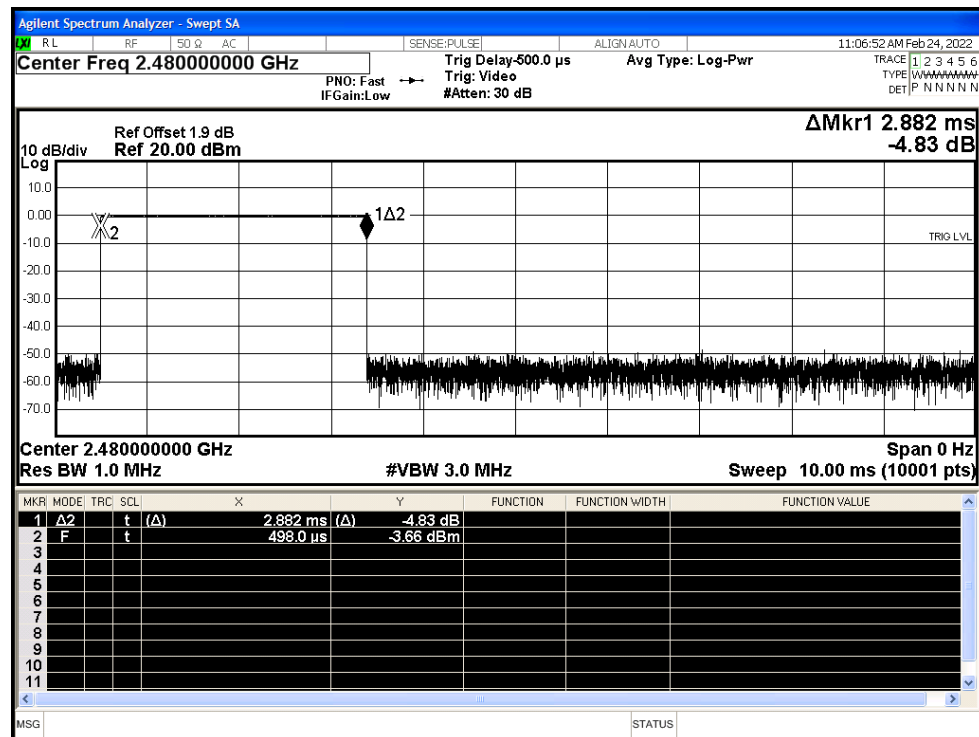


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

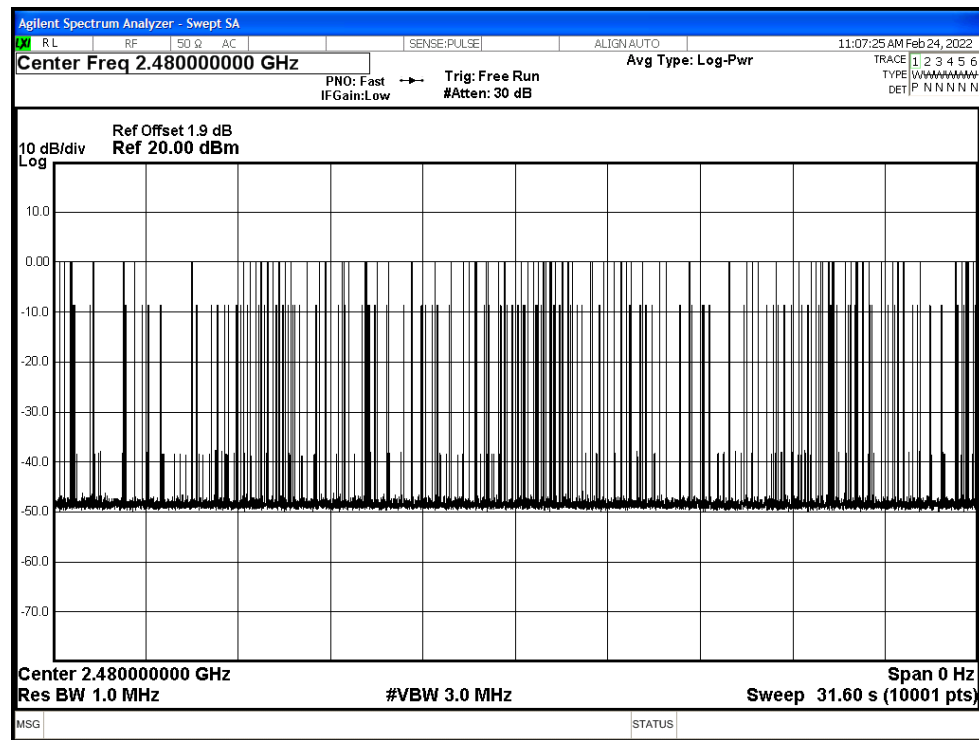




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

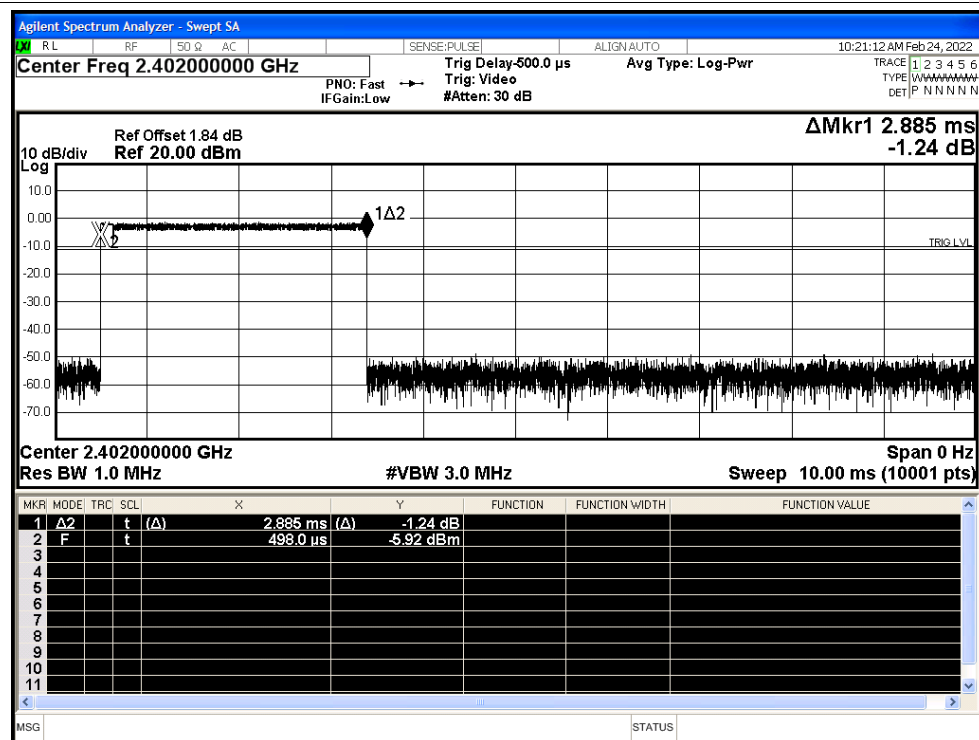


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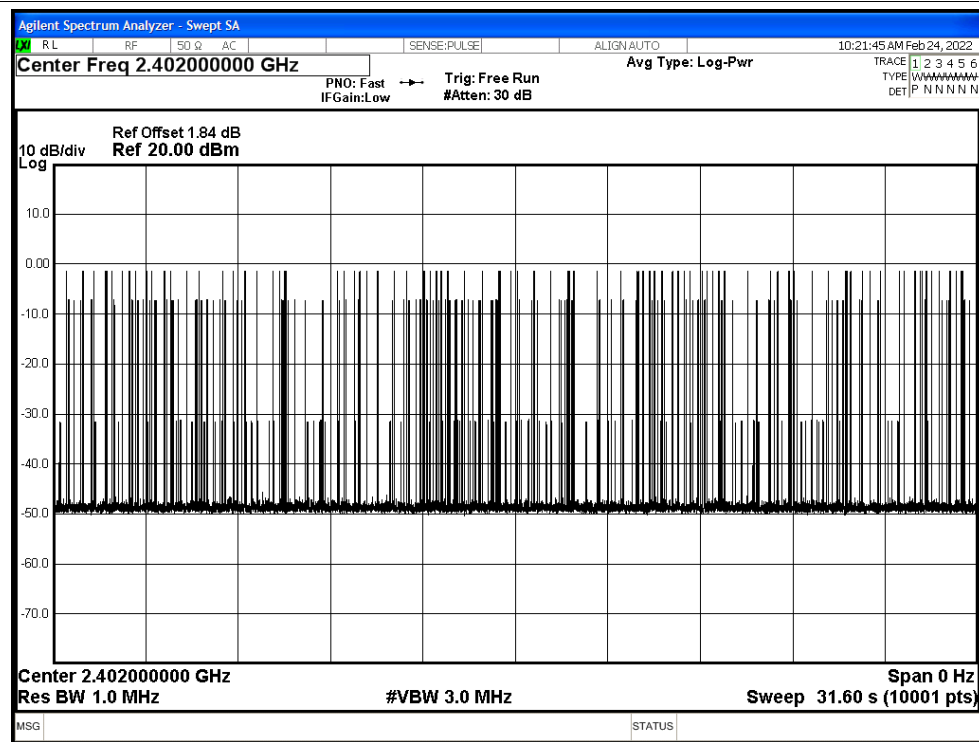




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

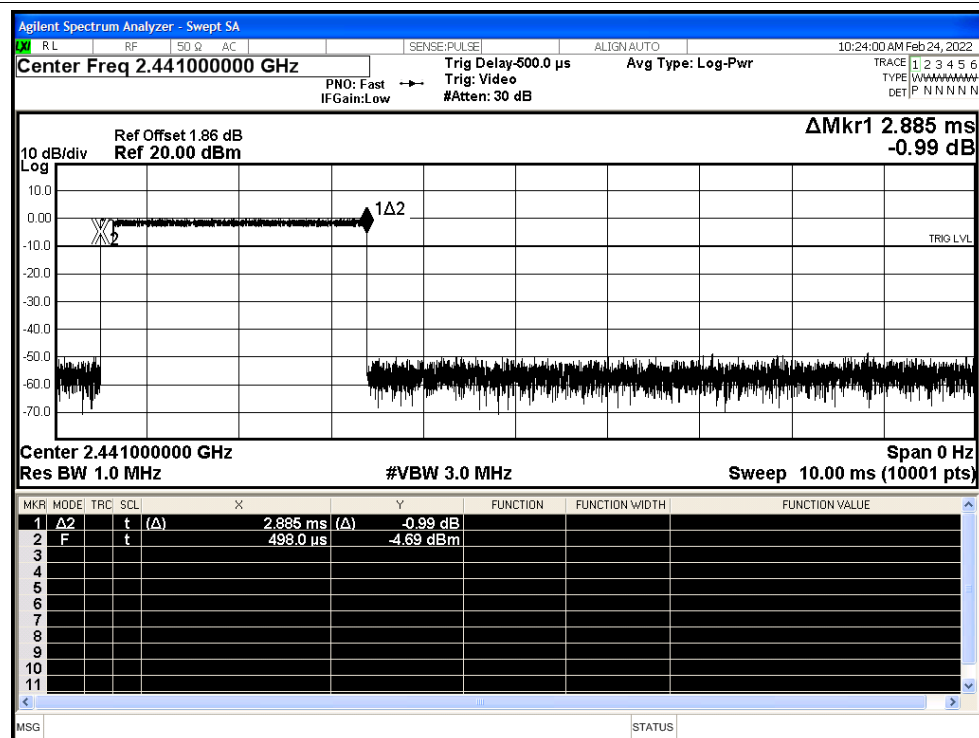


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

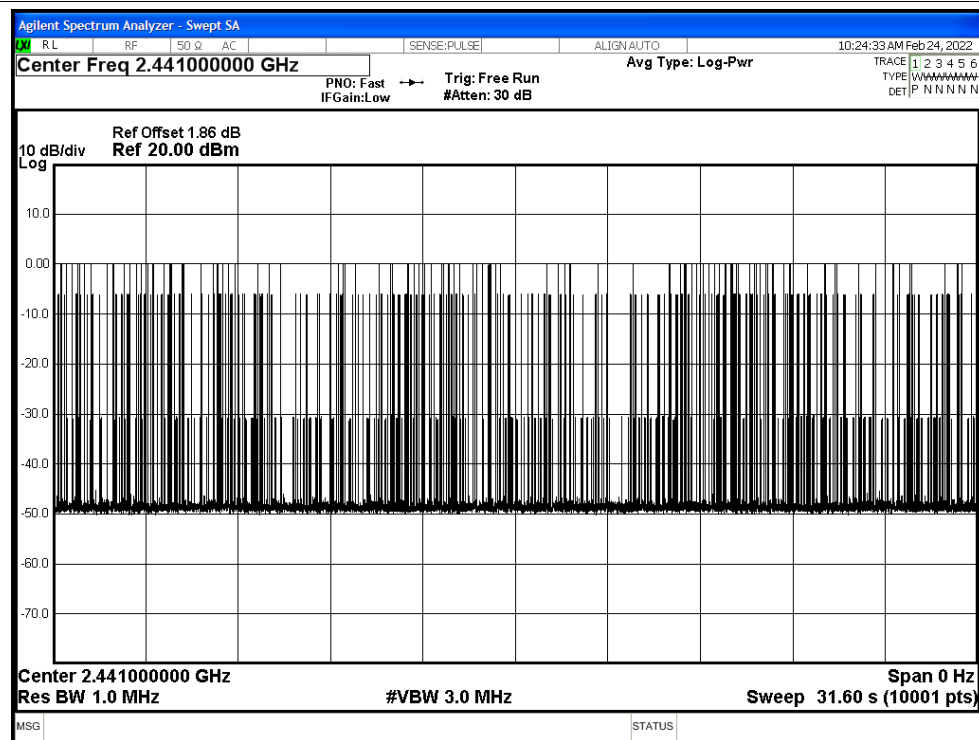




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

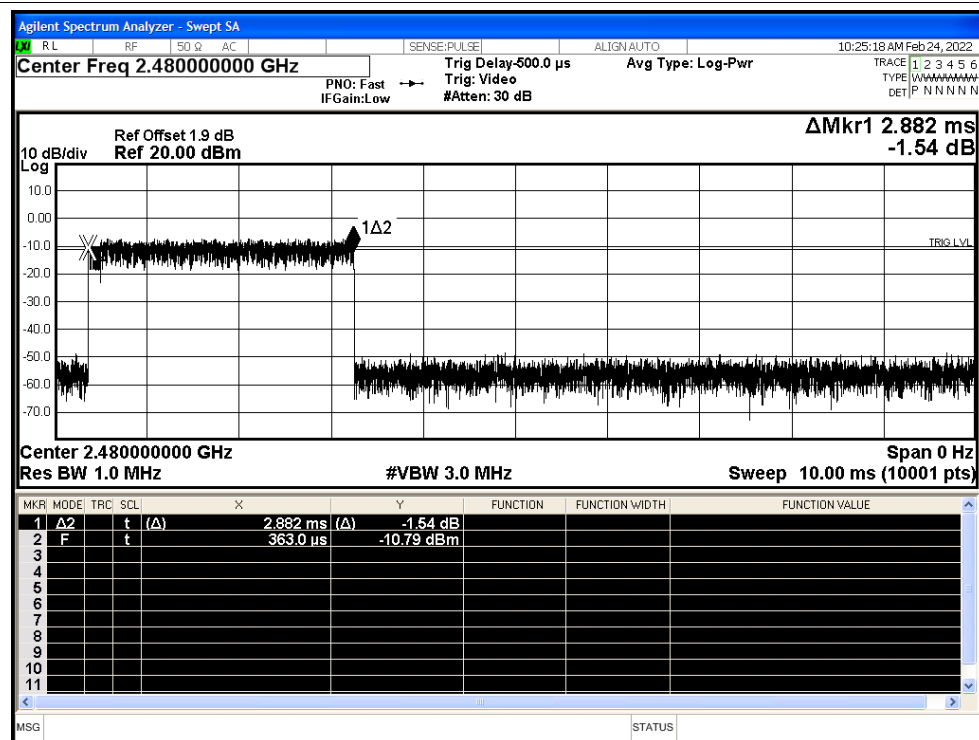


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

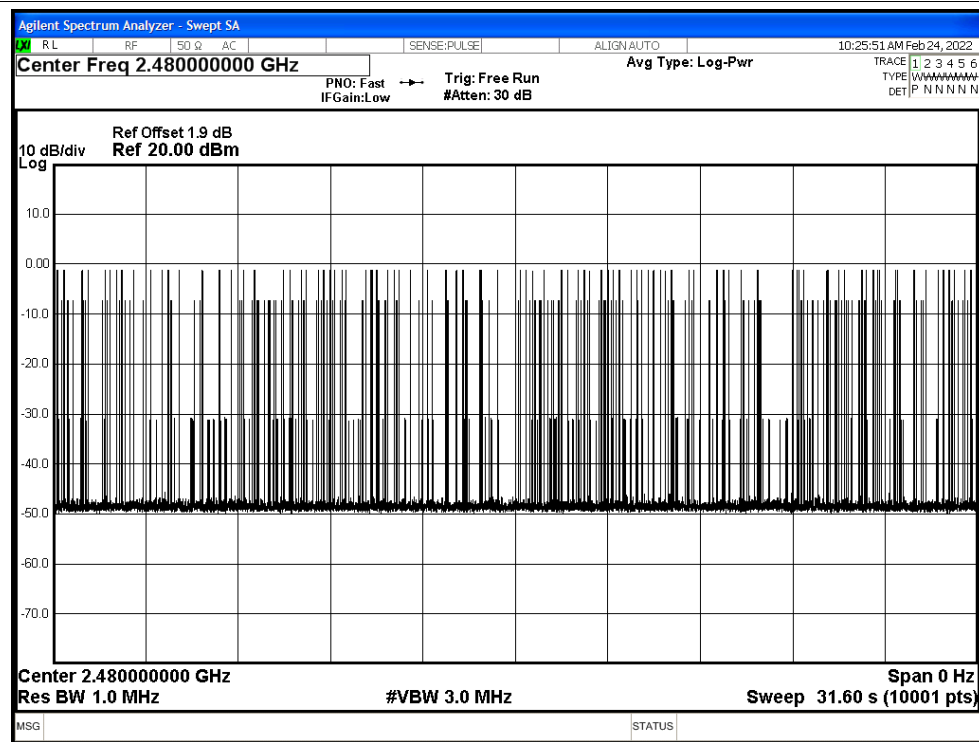




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

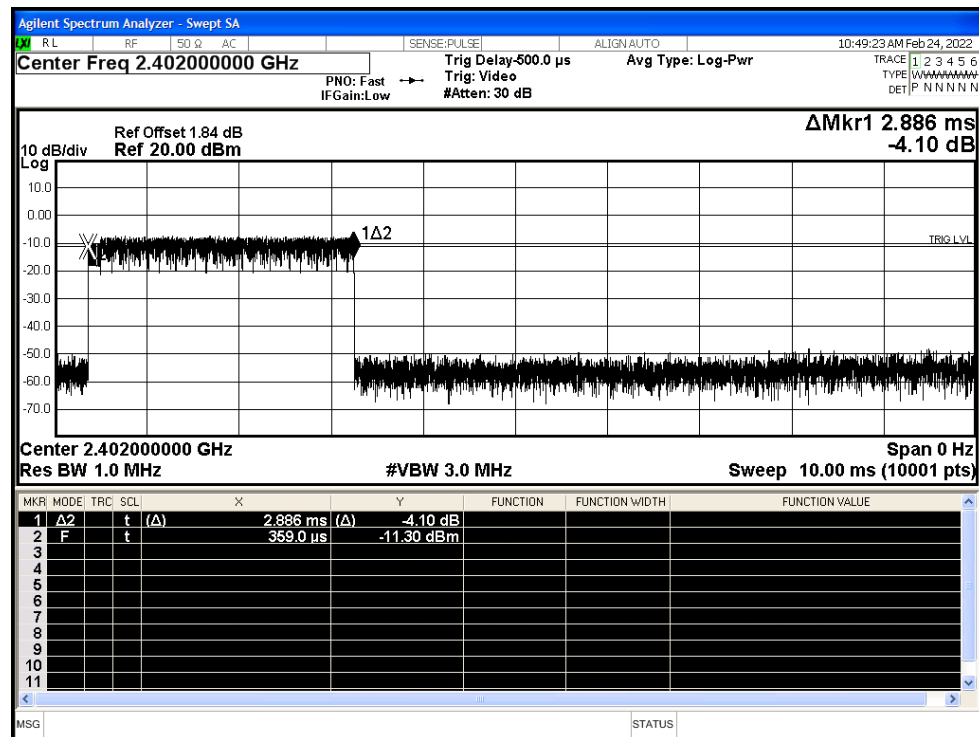


Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated

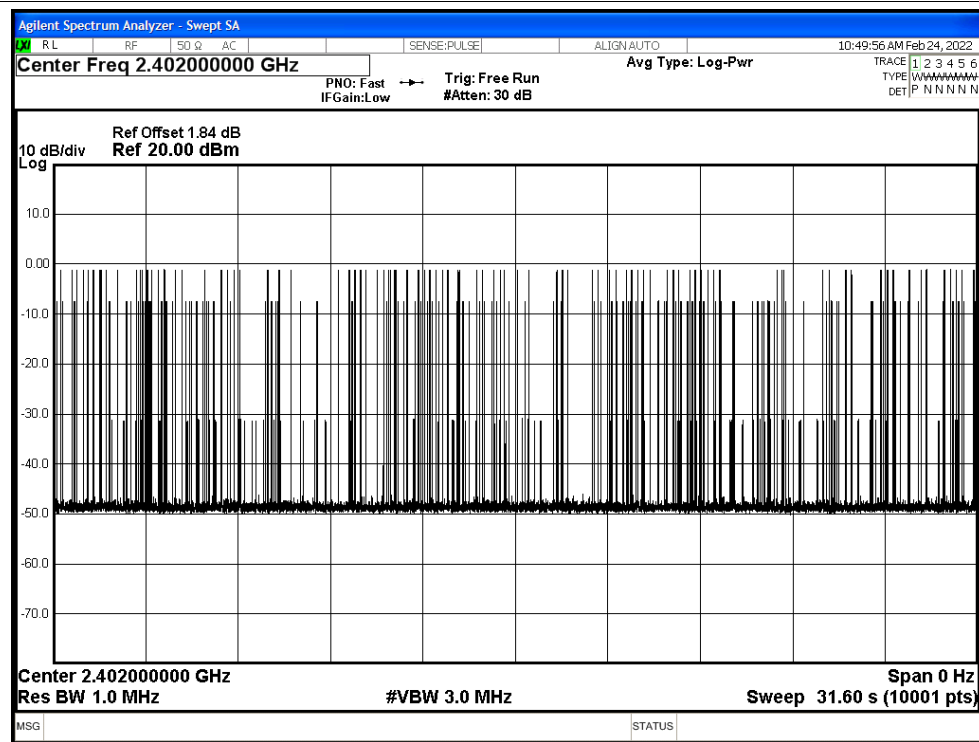




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

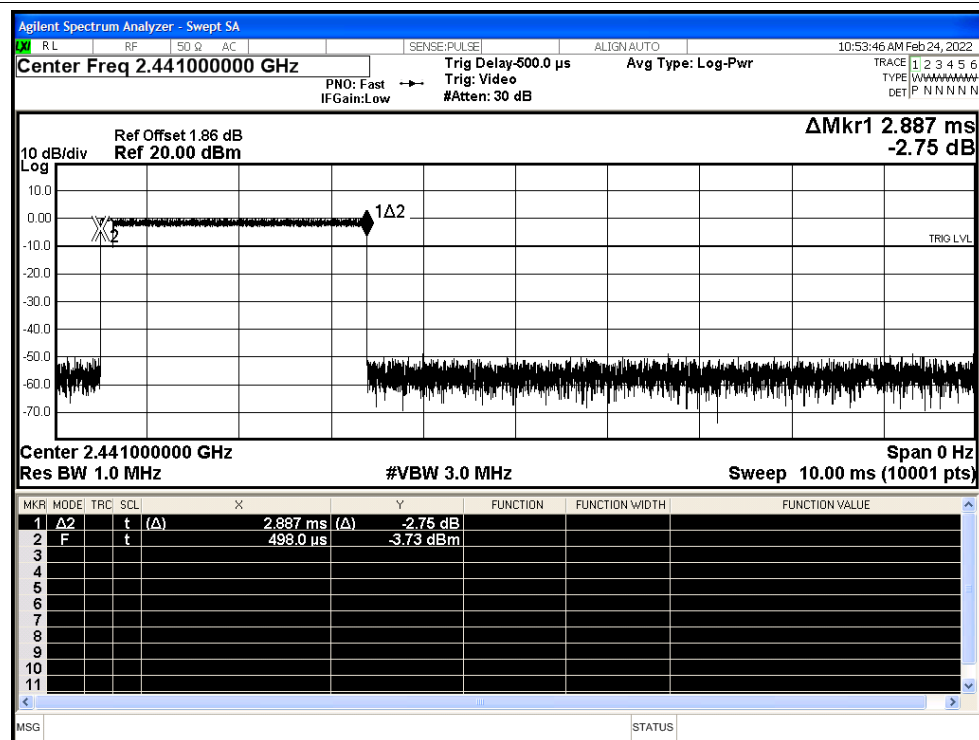


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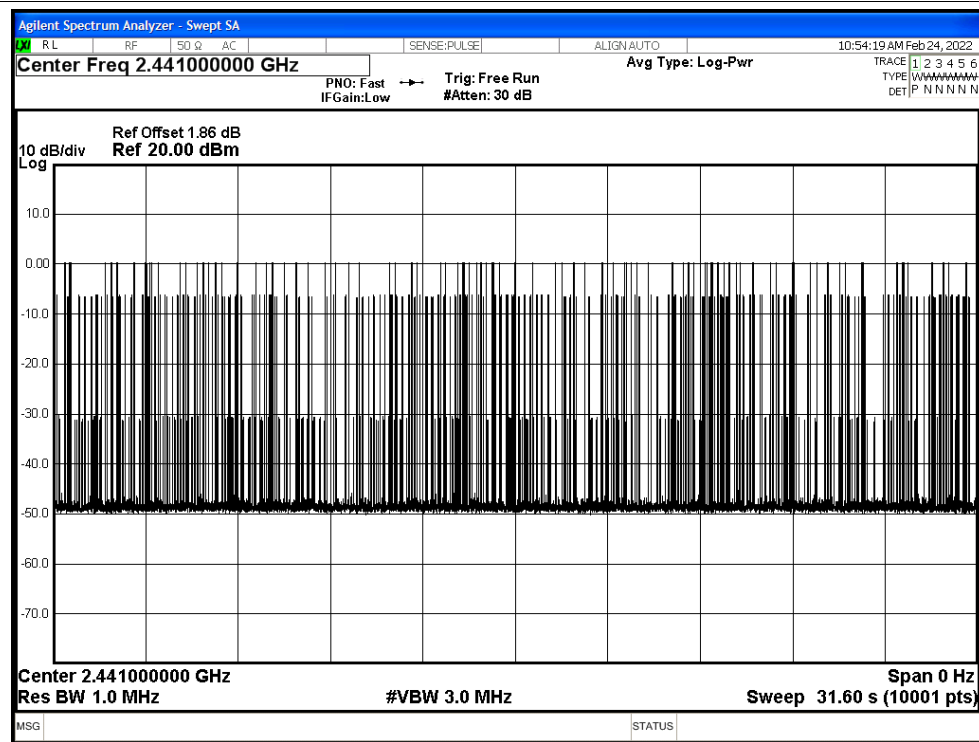




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst

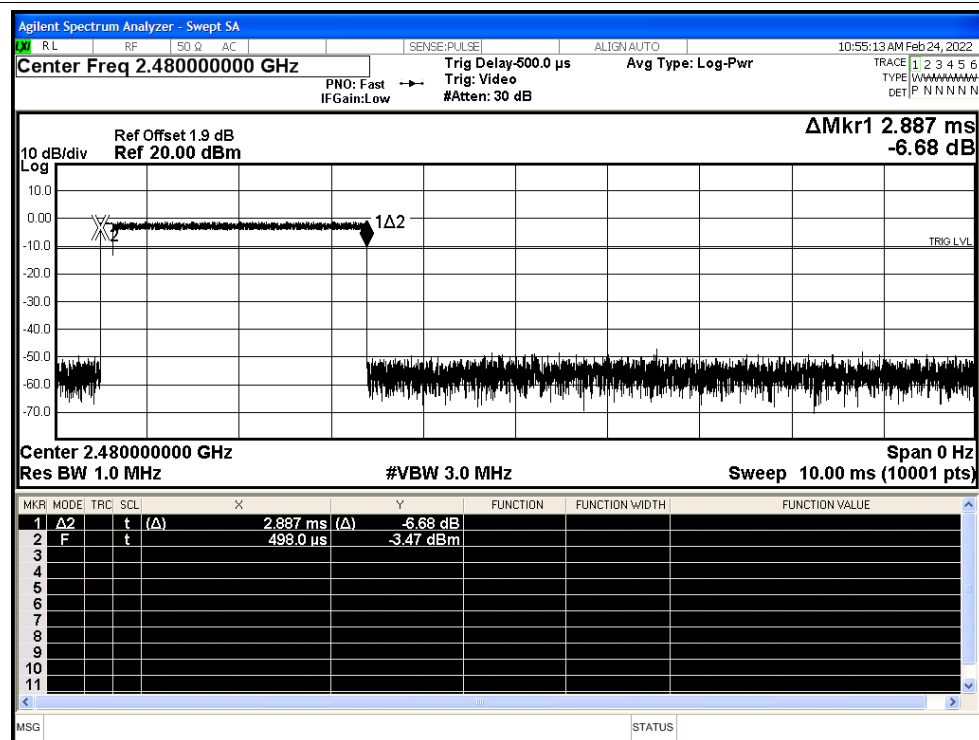


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

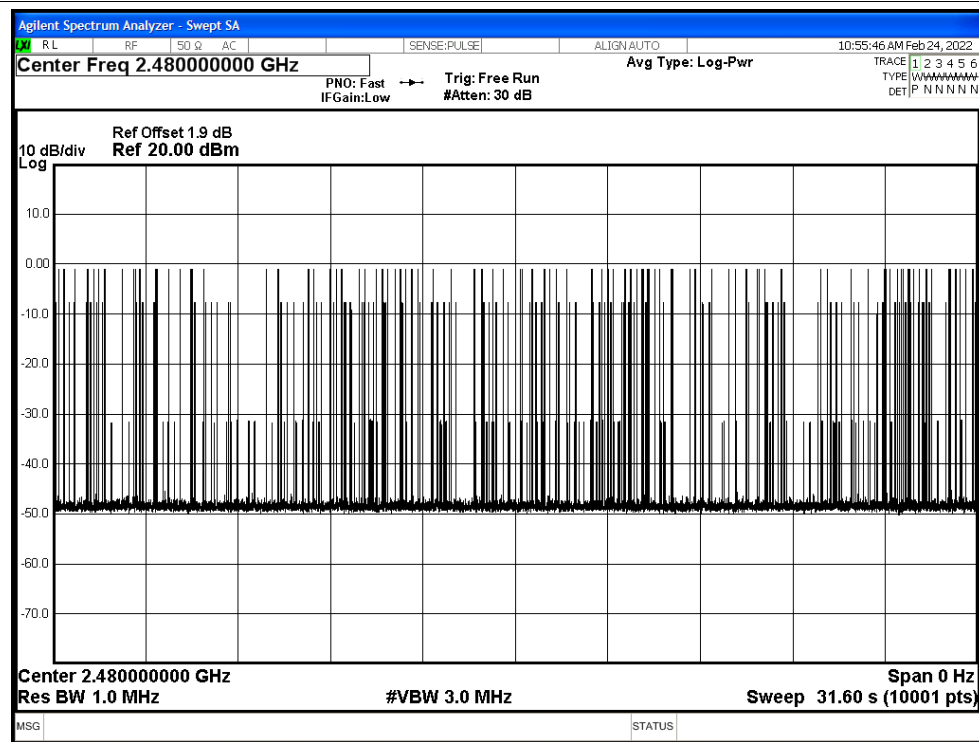




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated





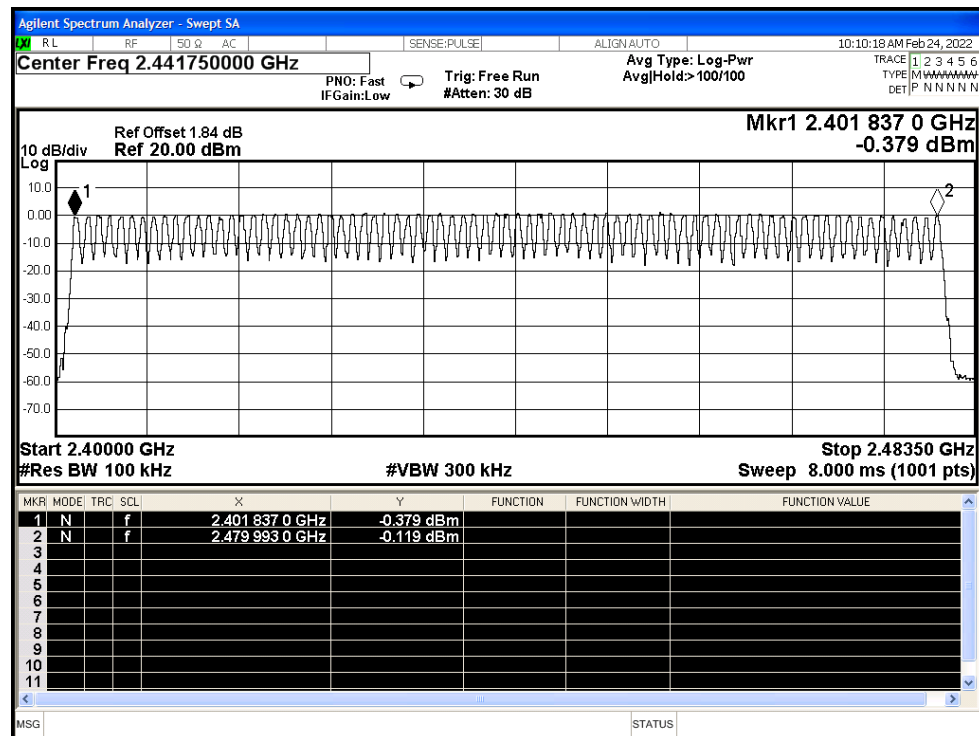
A.5 Number of Hopping Channel

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

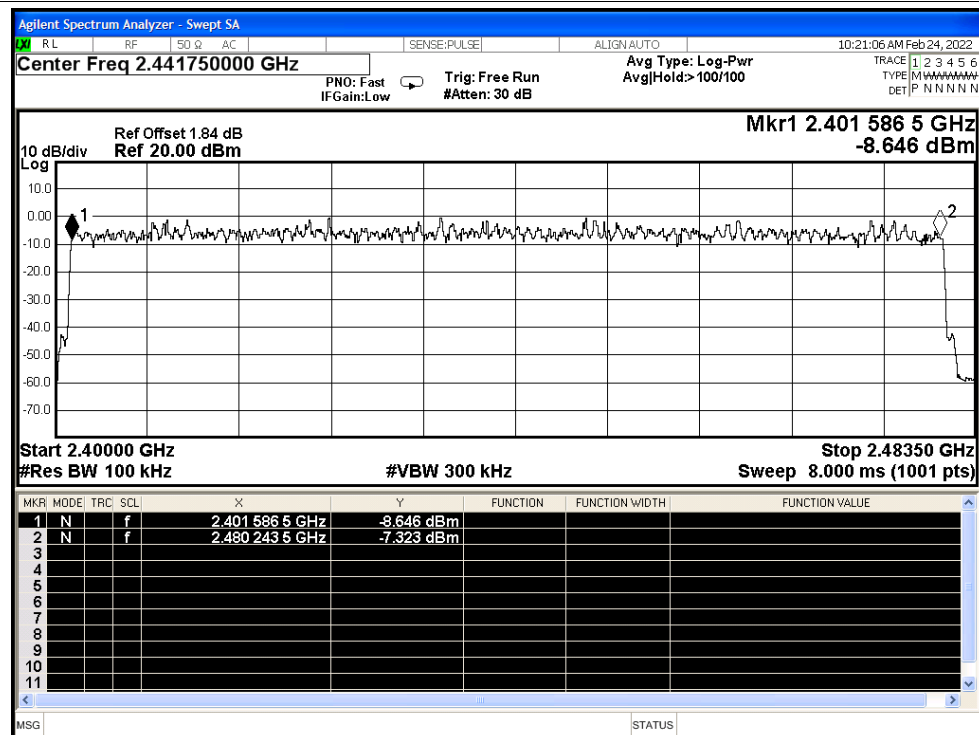


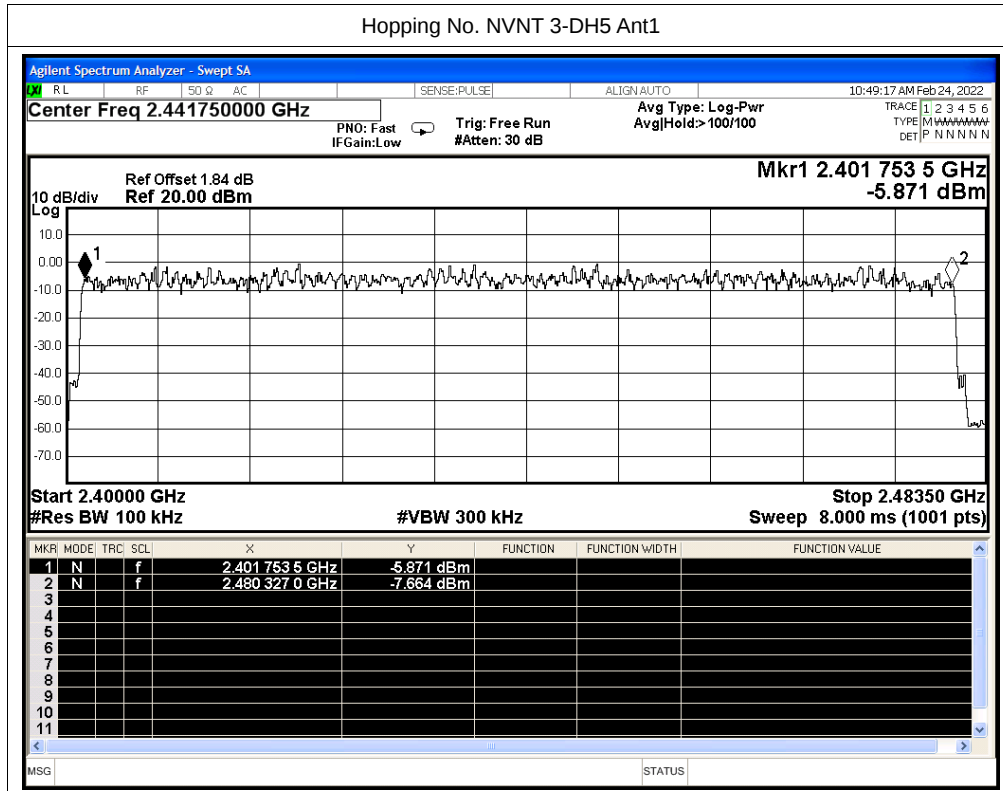
Test Graphs

Hopping No. NVNT 1-DH5 Ant1



Hopping No. NVNT 2-DH5 Ant1







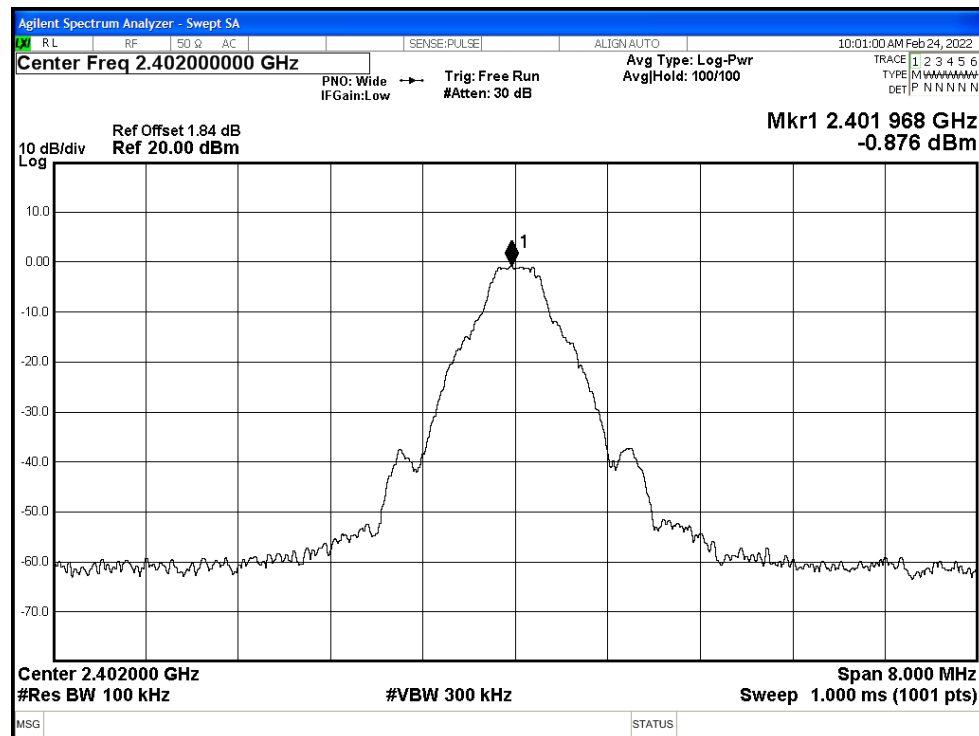
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.43	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.77	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.17	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.67	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.34	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.79	-20	Pass

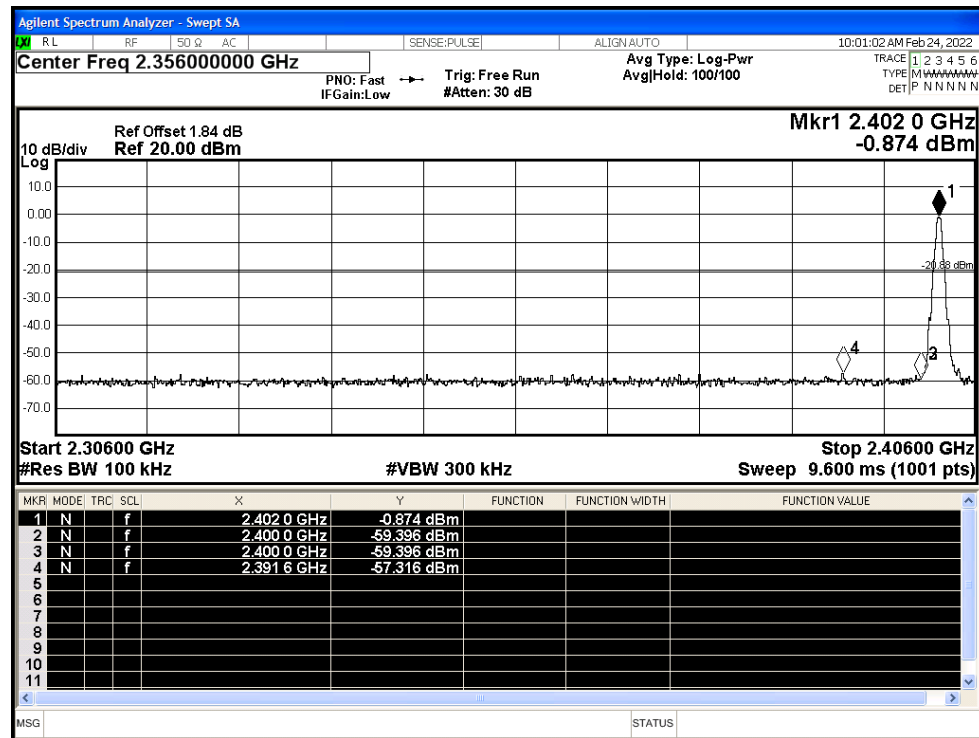


Test Graphs

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

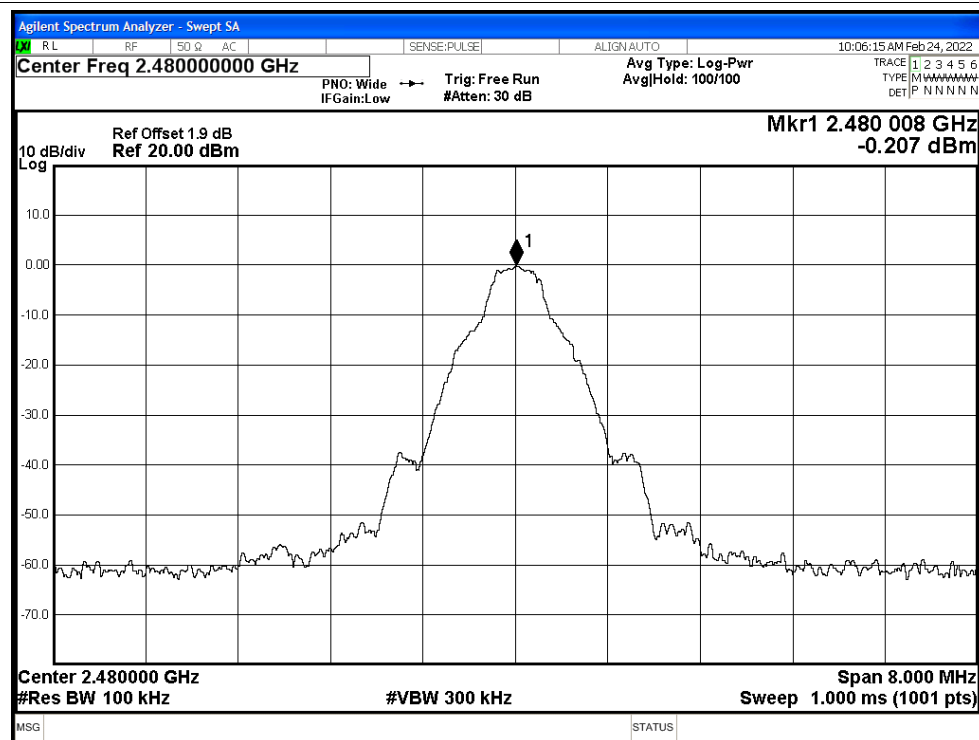


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

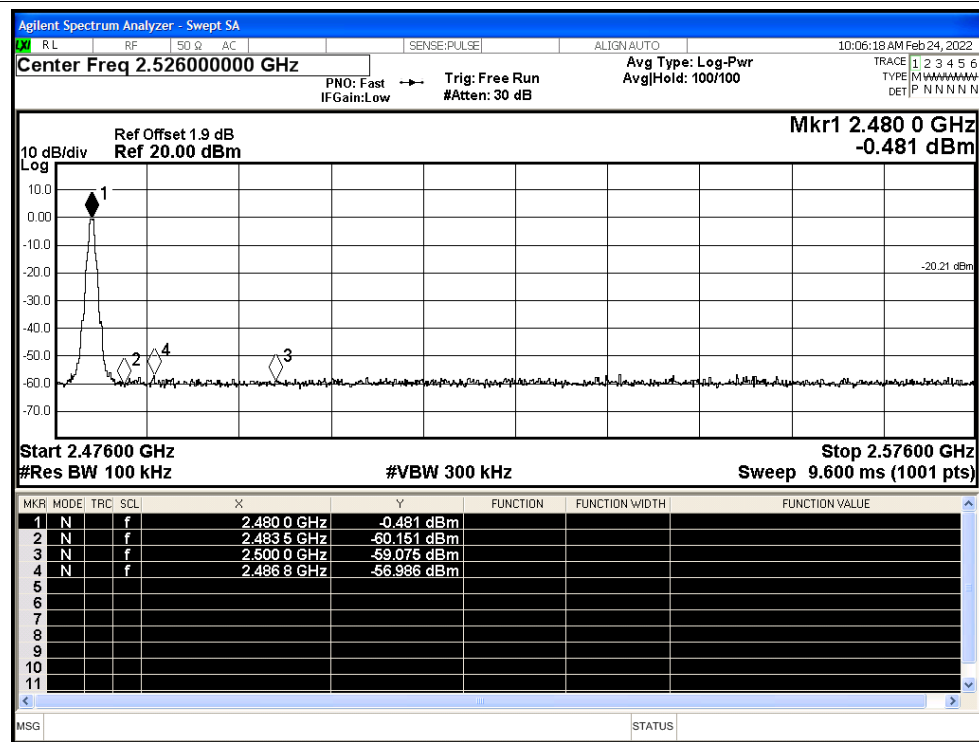




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

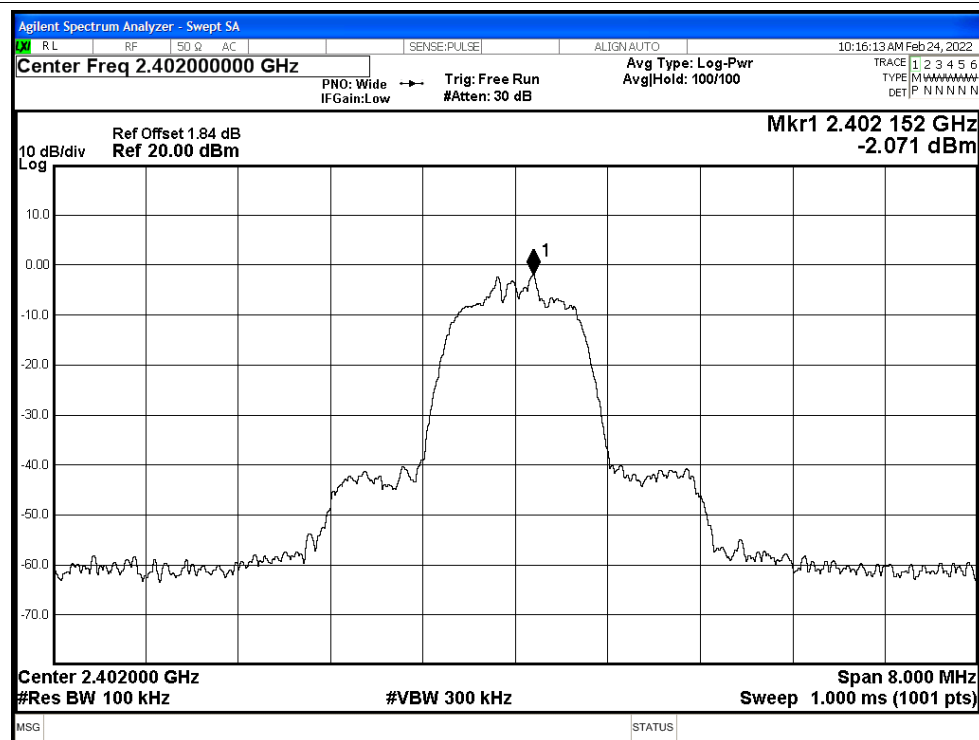


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

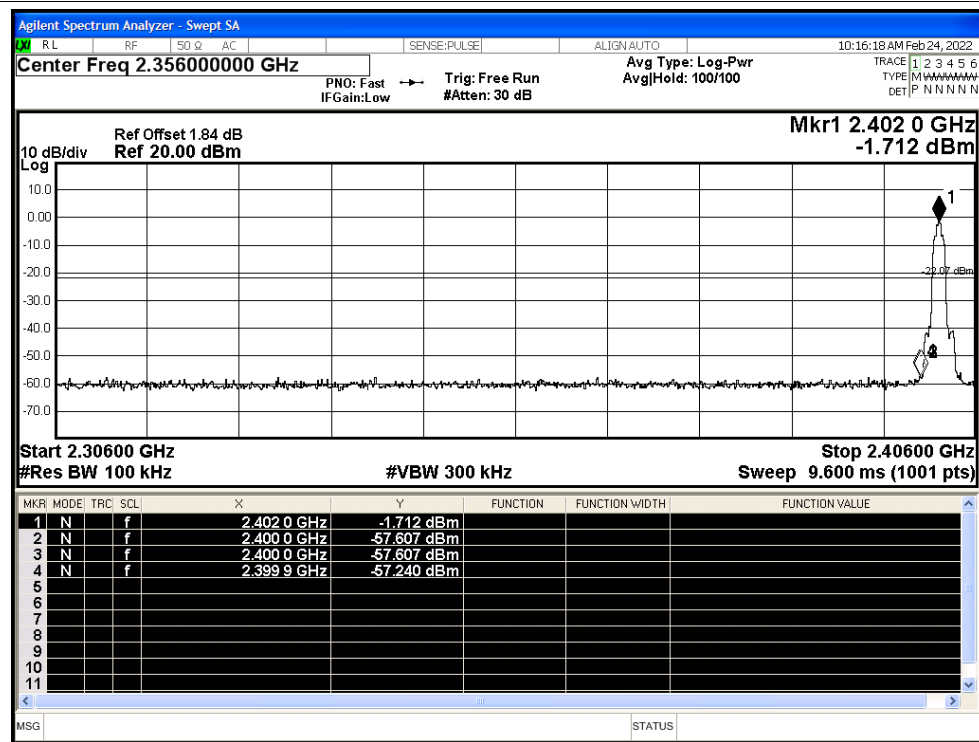




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

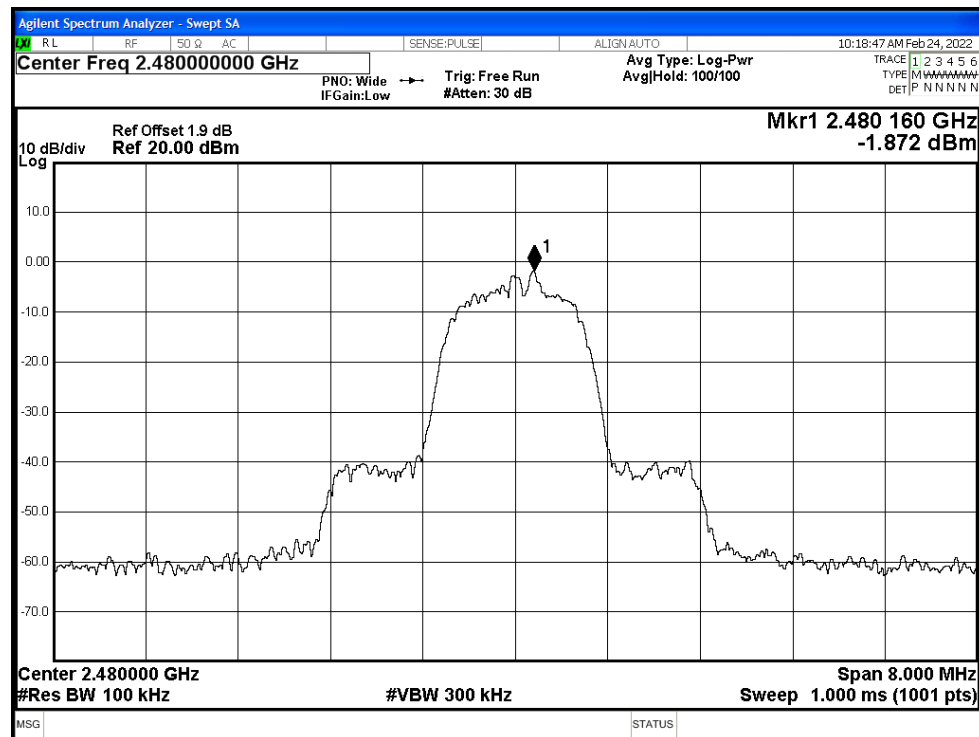


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

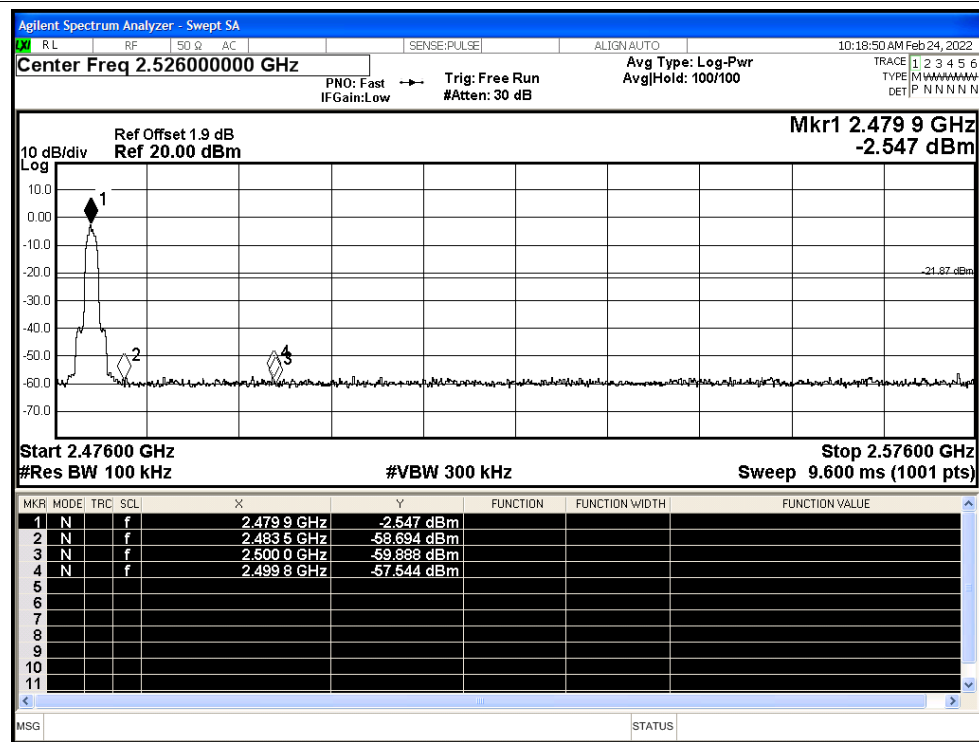




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

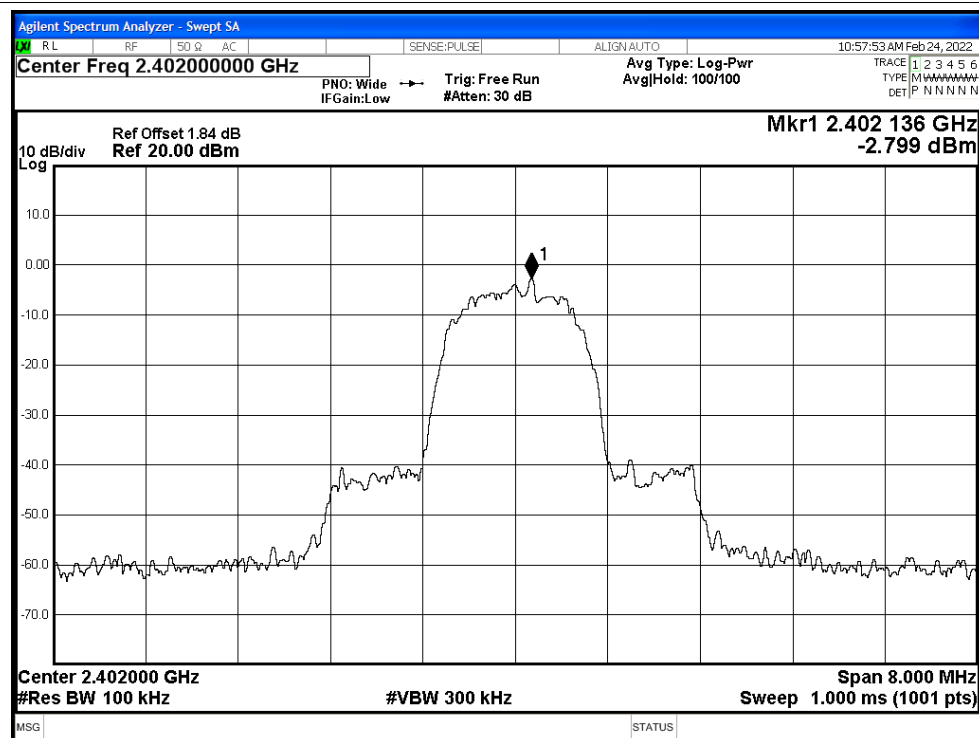


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

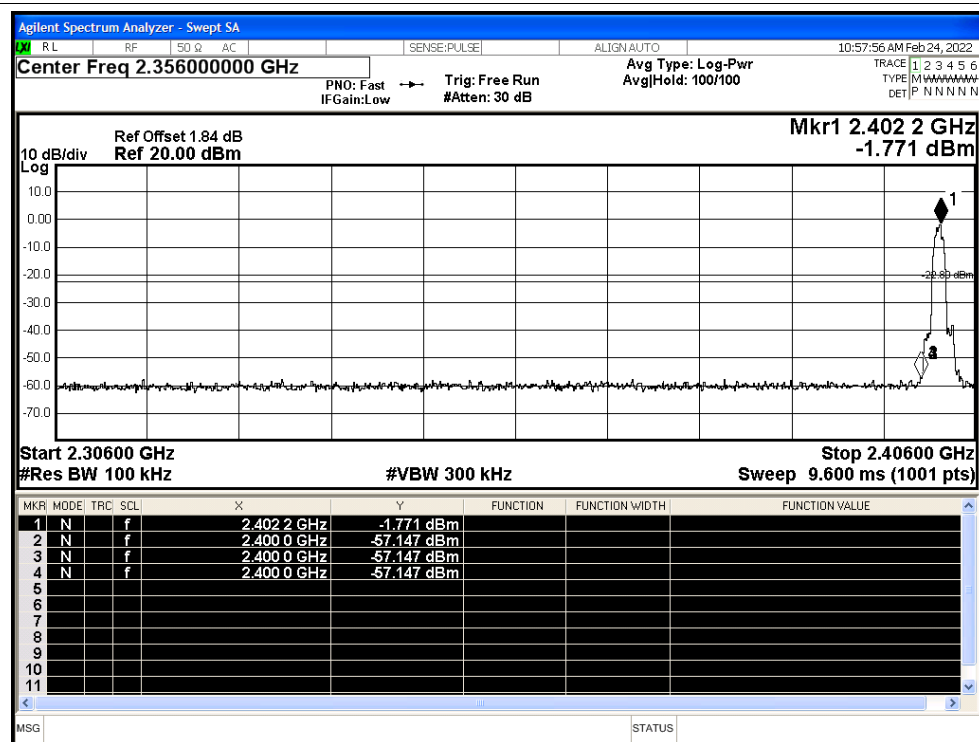




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

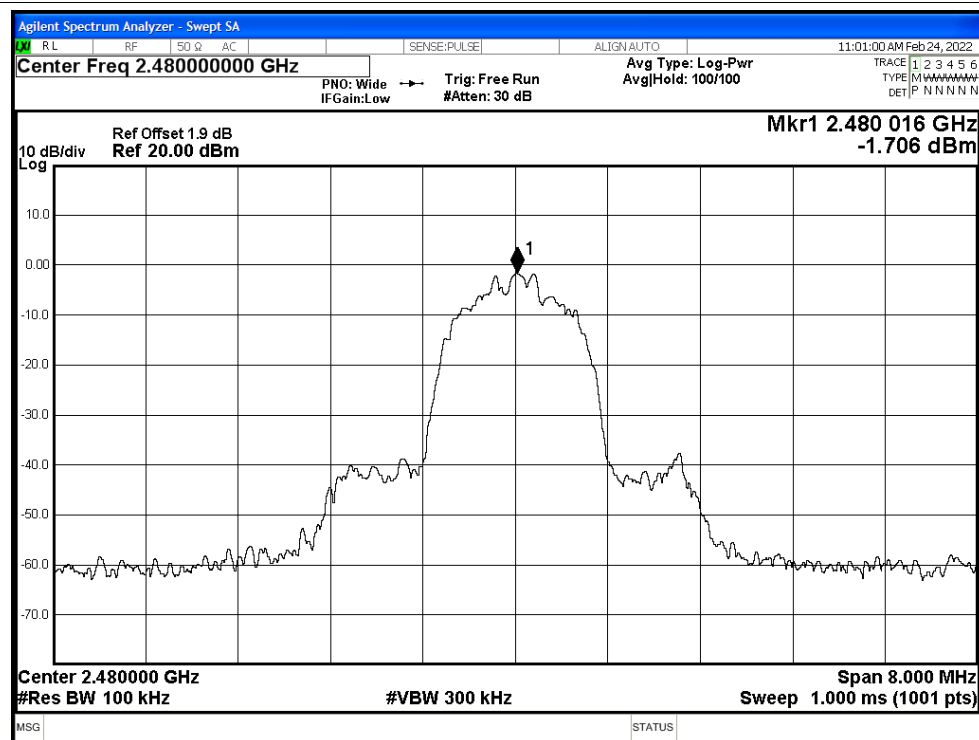


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

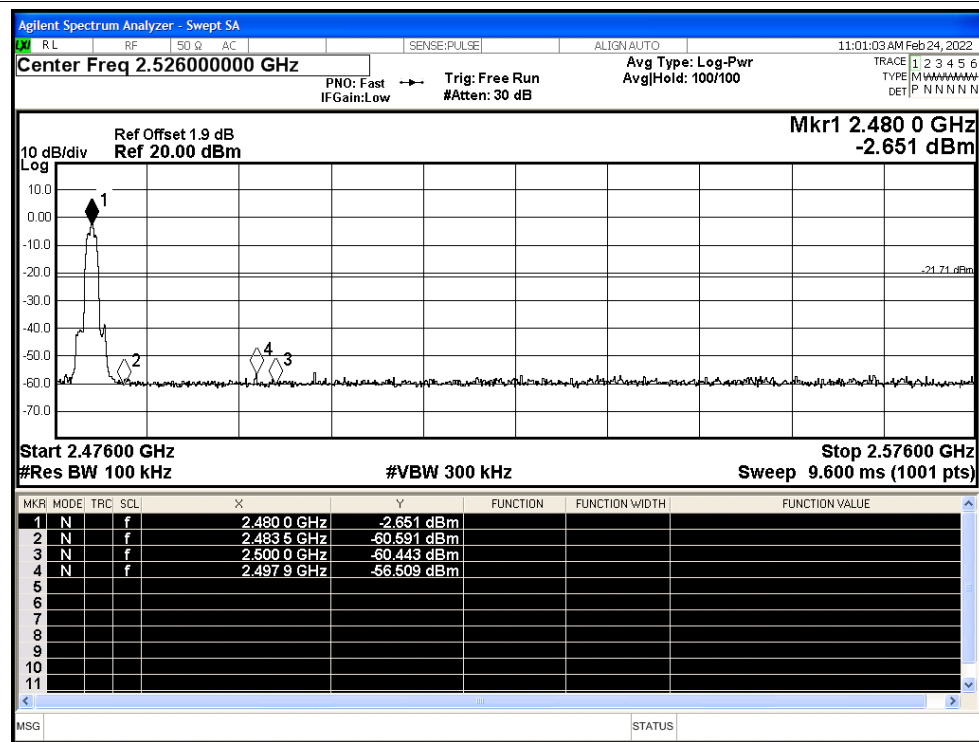




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





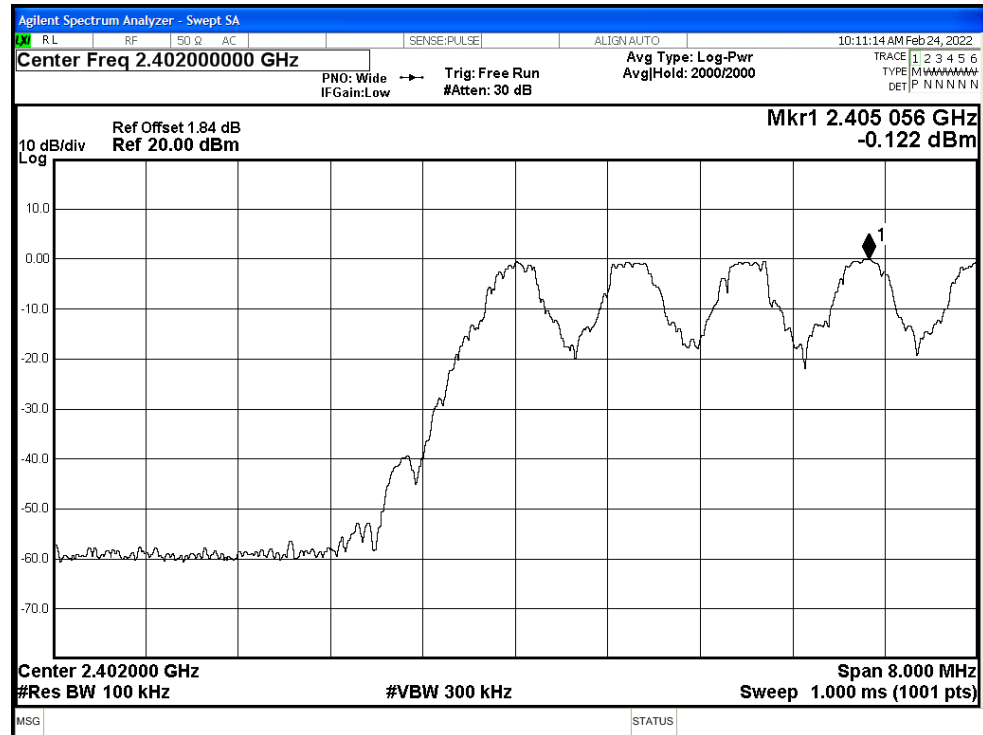
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.43	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.4	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.65	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.39	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.51	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.36	-20	Pass

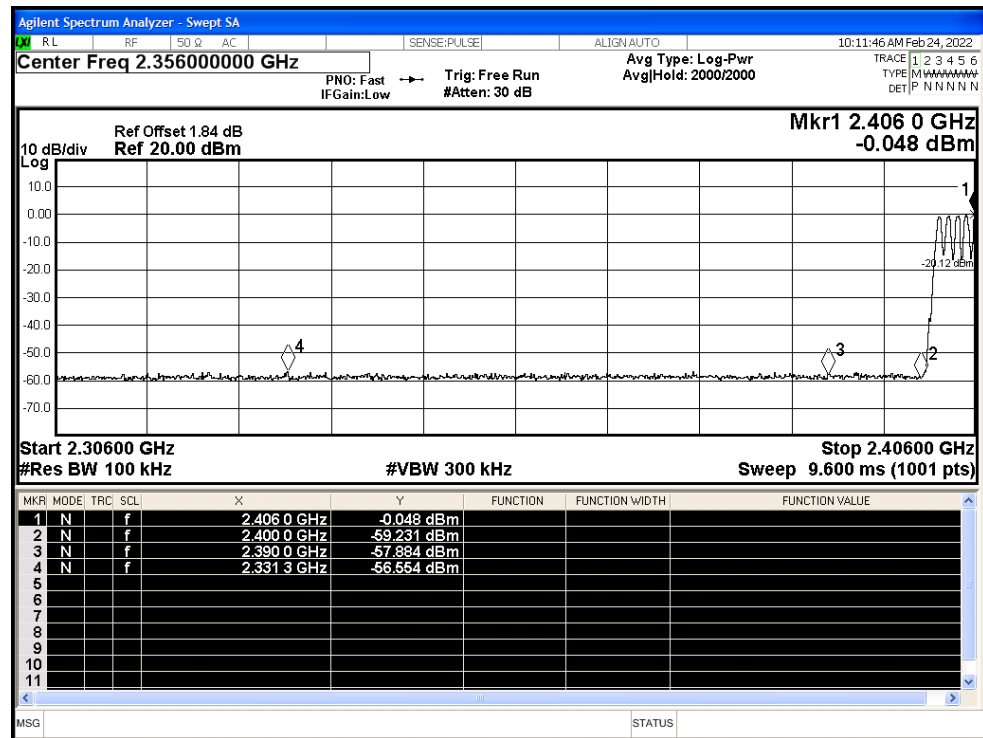


Test Graphs

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

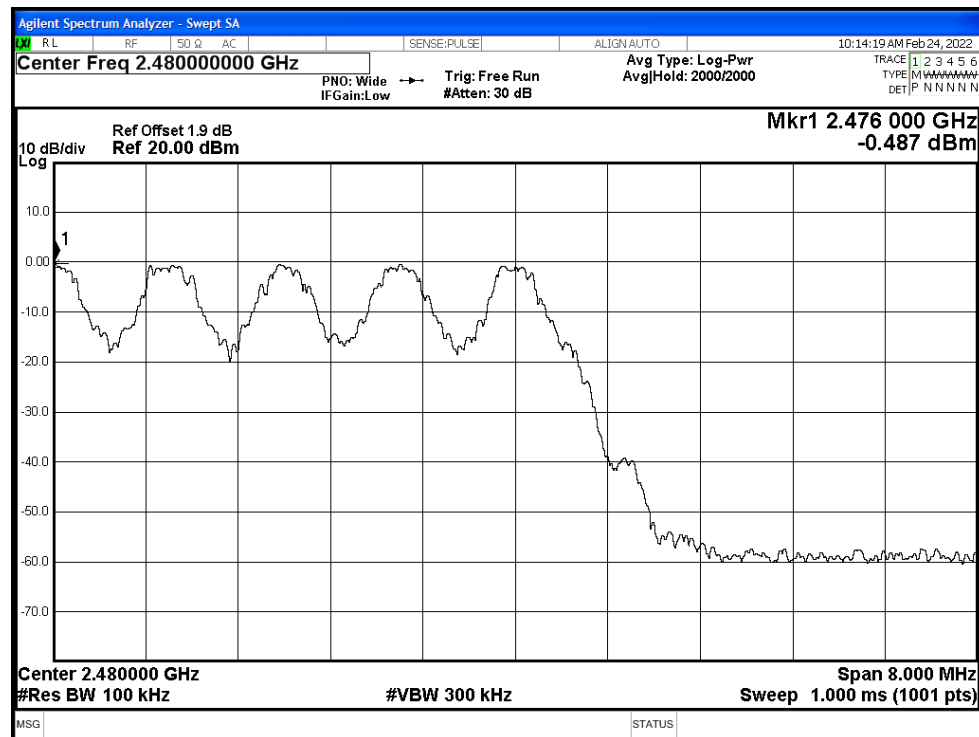


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

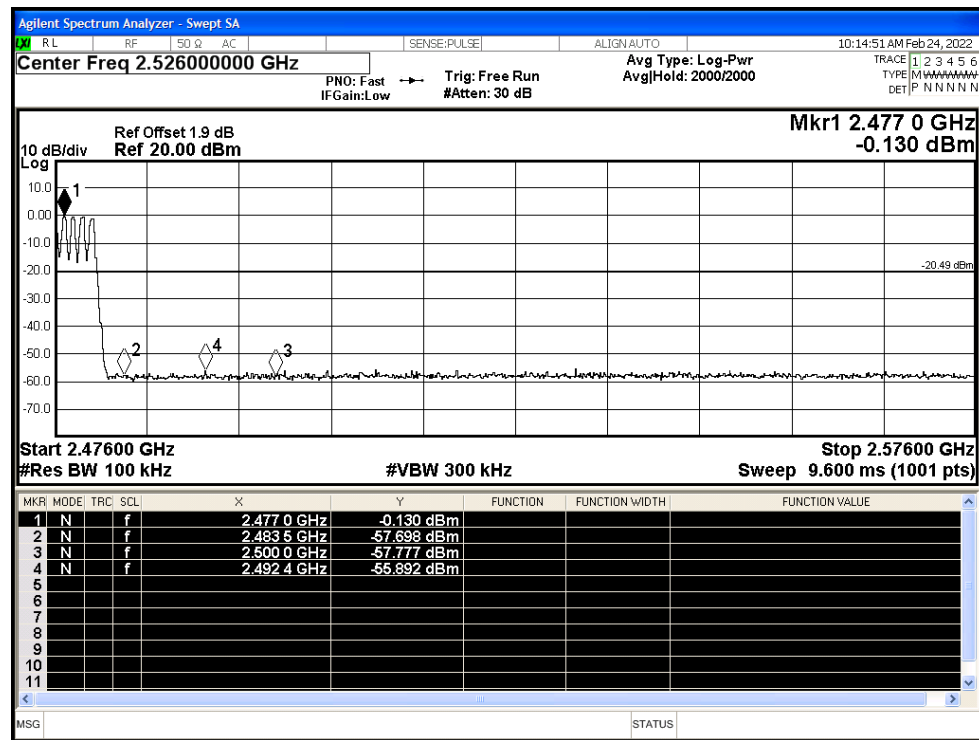




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

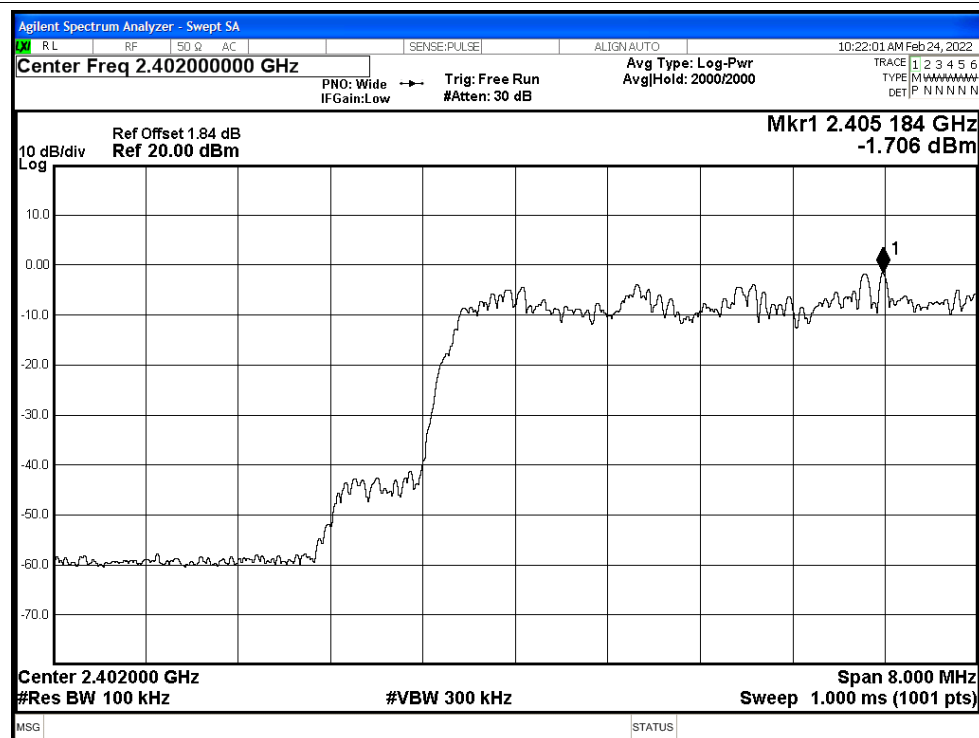


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

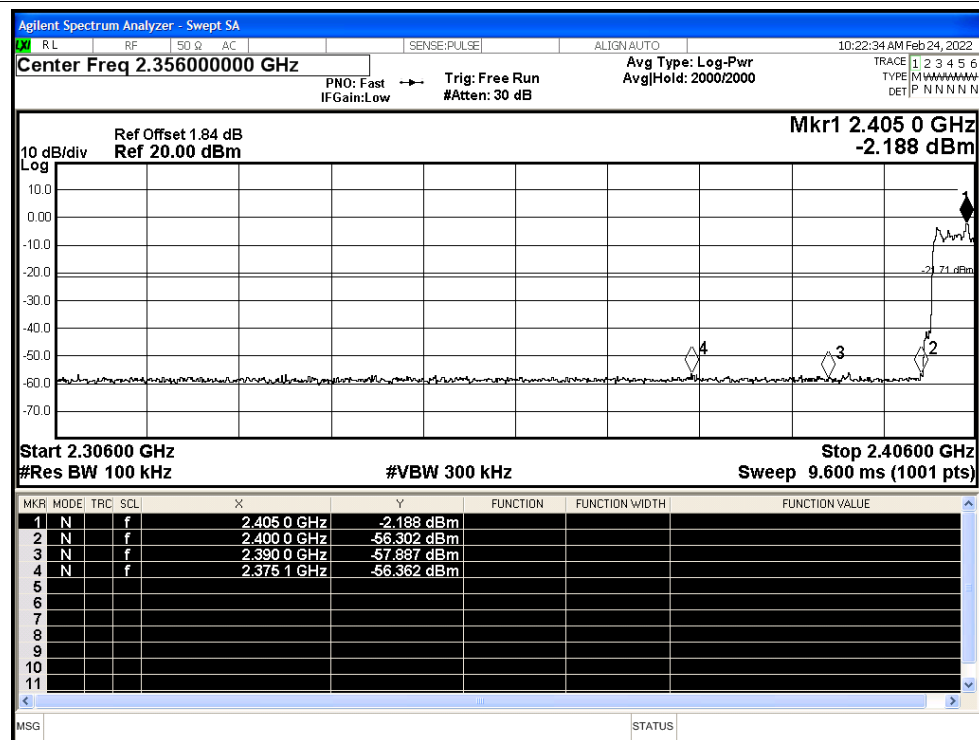




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

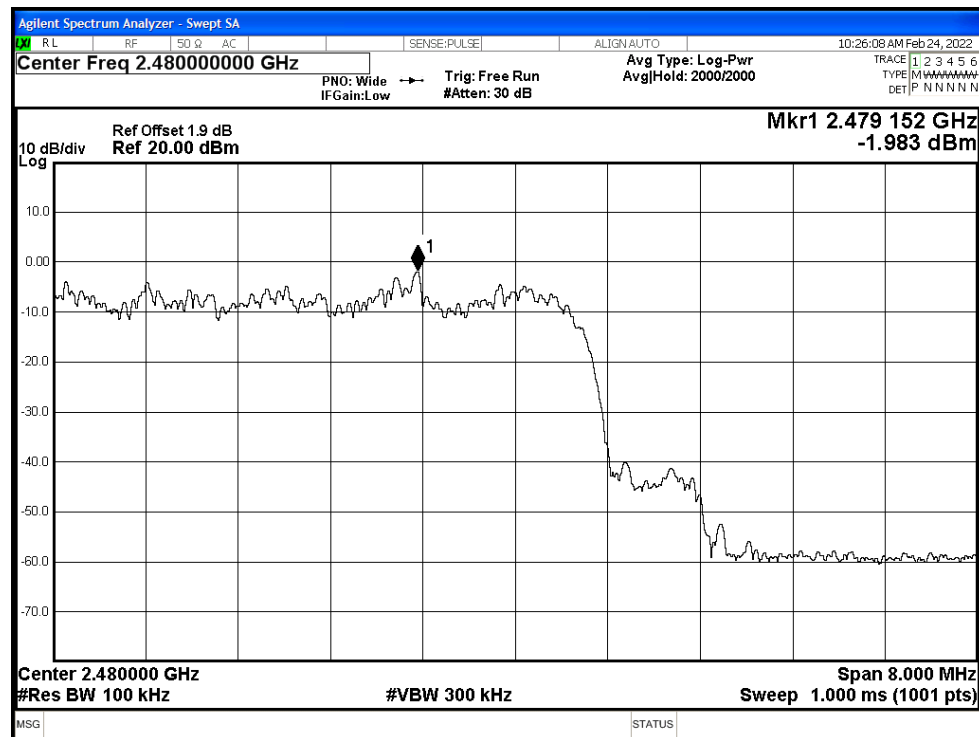


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

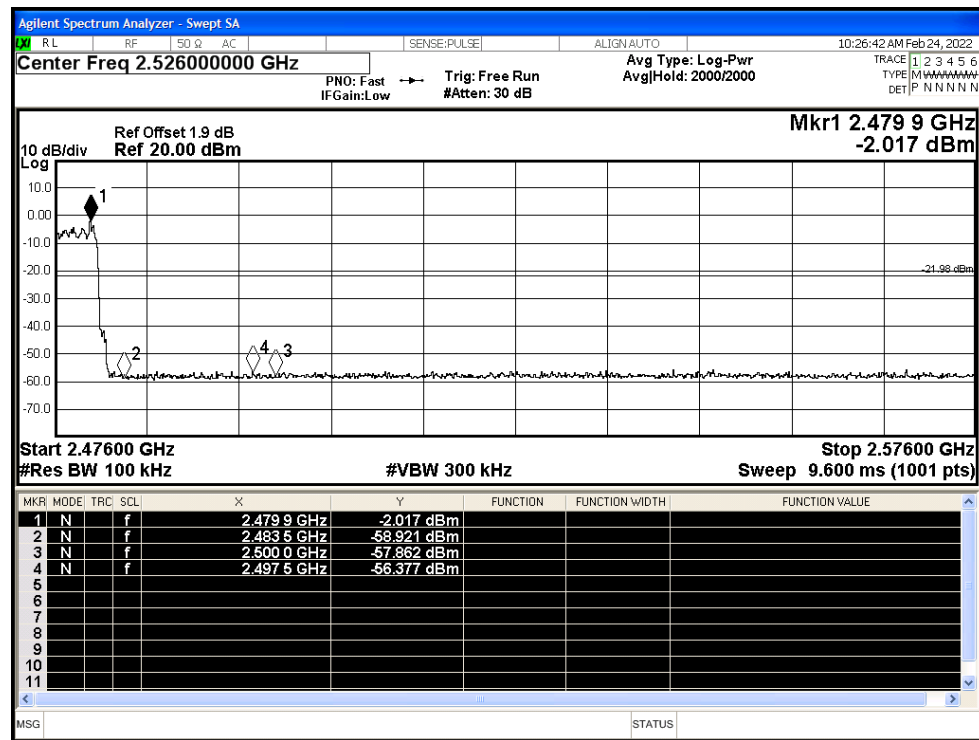




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

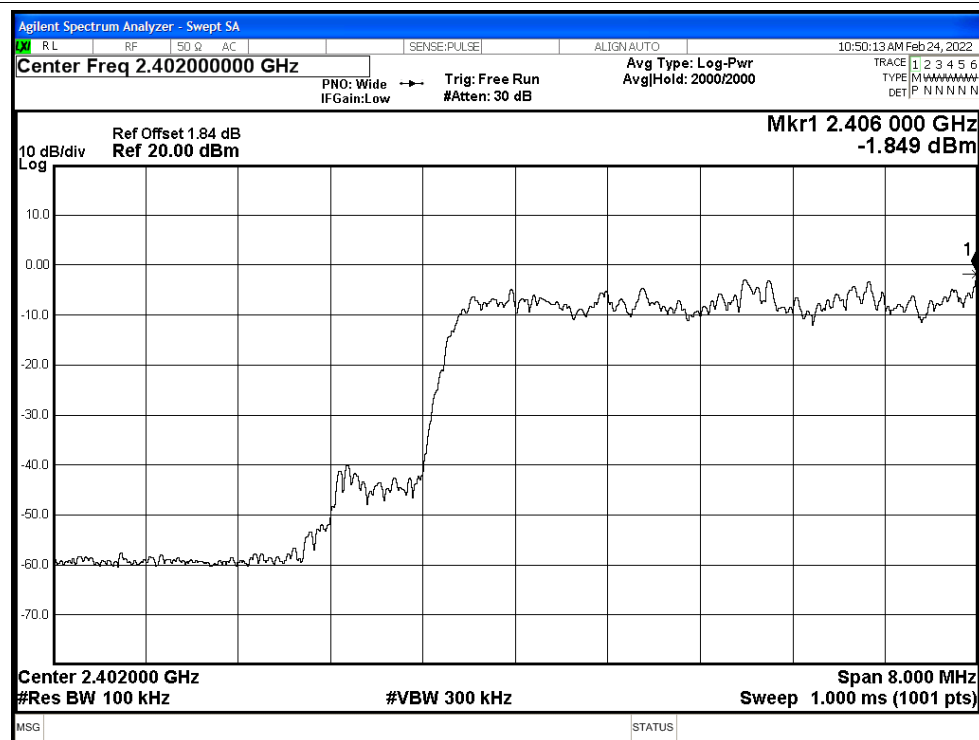


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

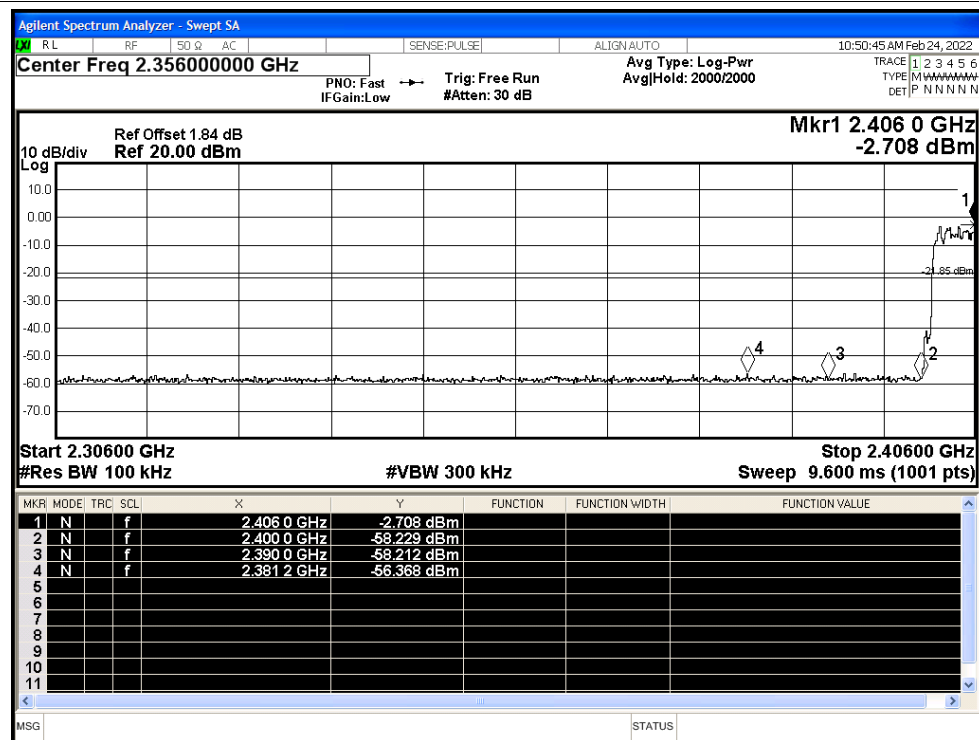




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

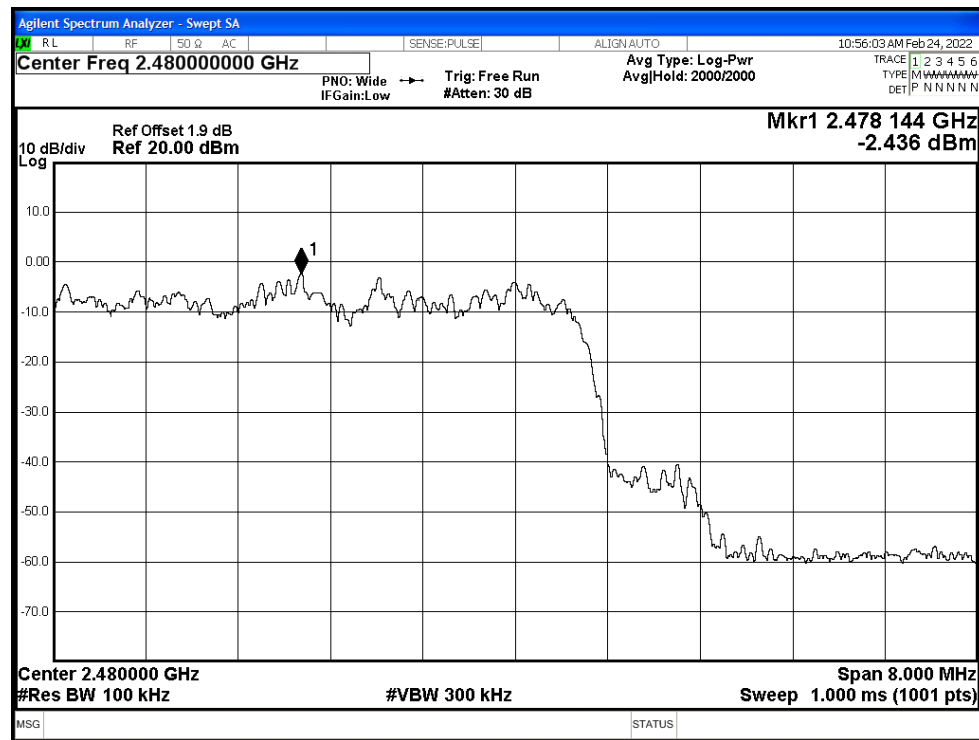


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

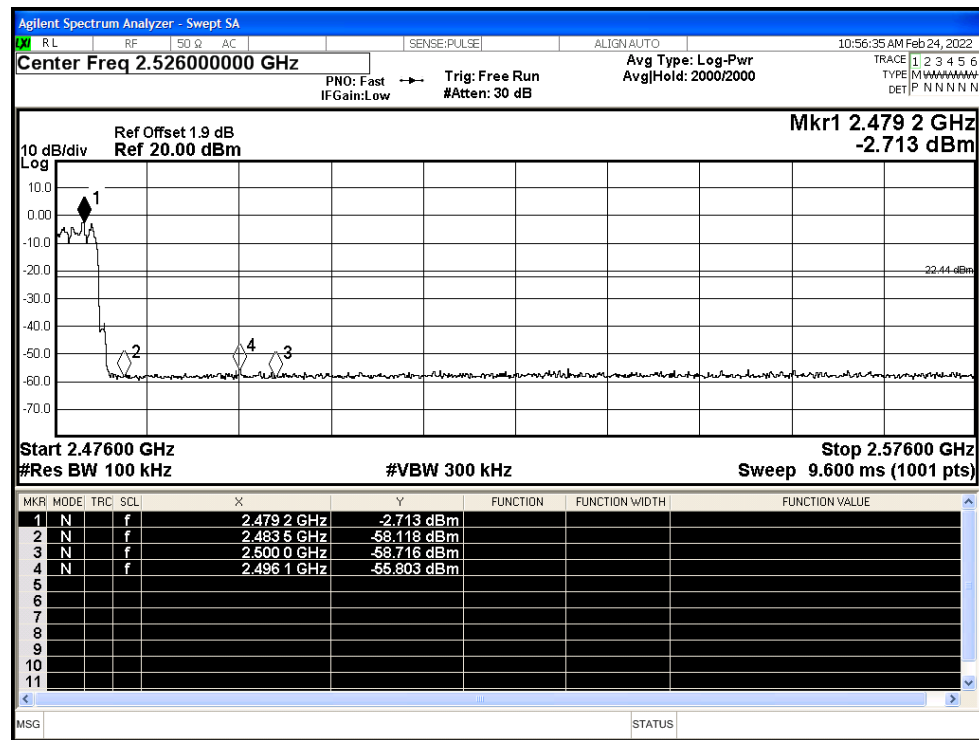




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





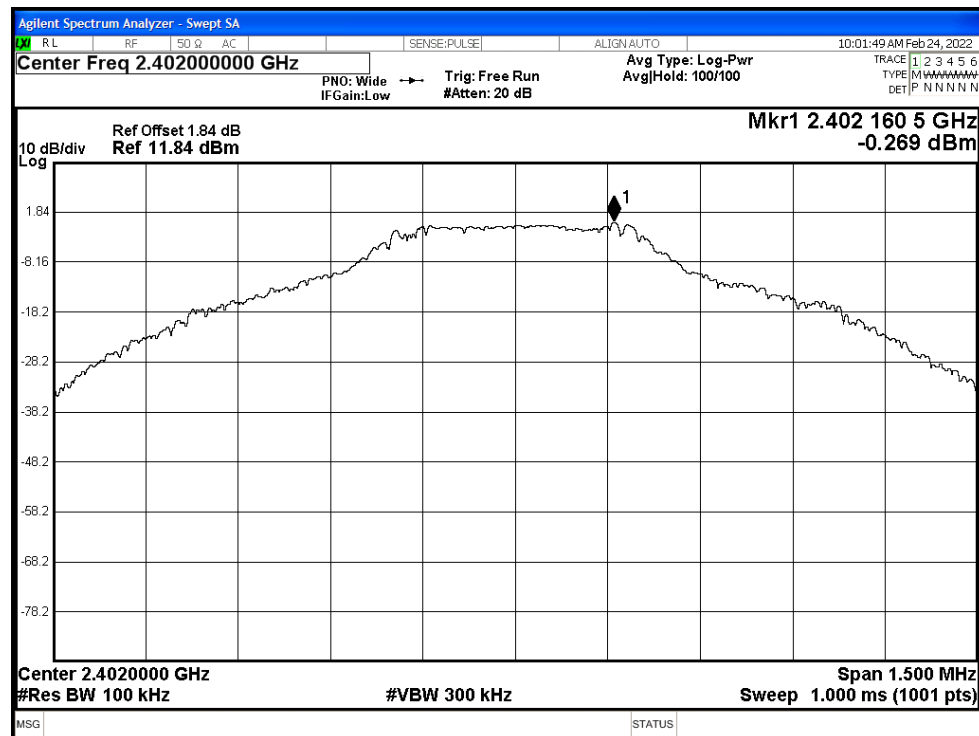
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.81	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.04	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.16	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.05	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.11	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.02	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.05	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.11	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.79	-20	Pass

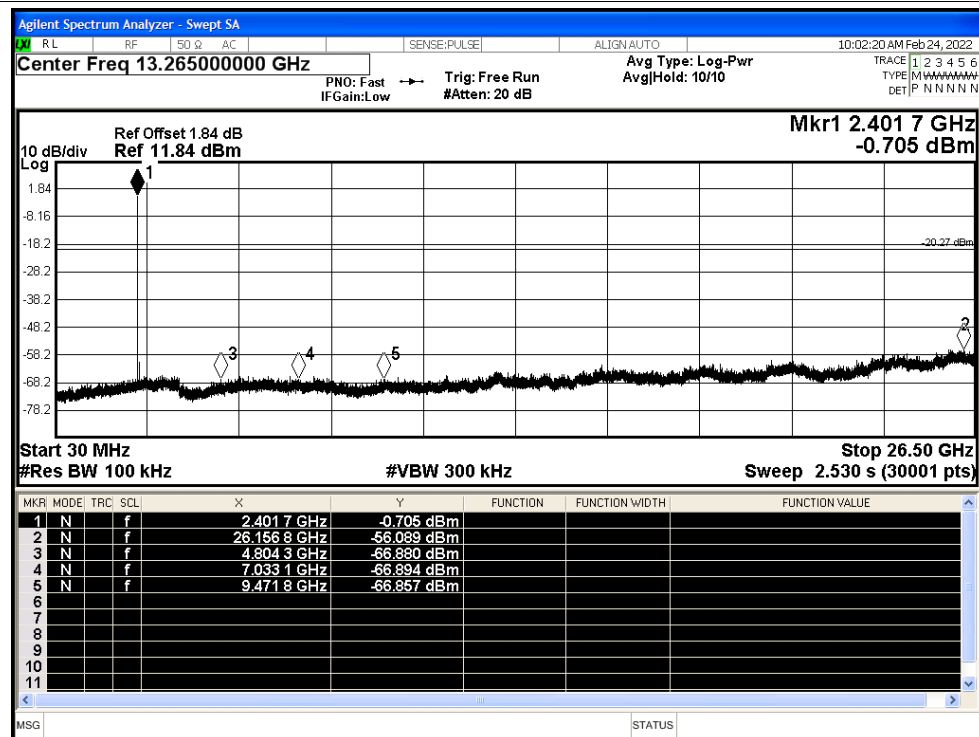


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

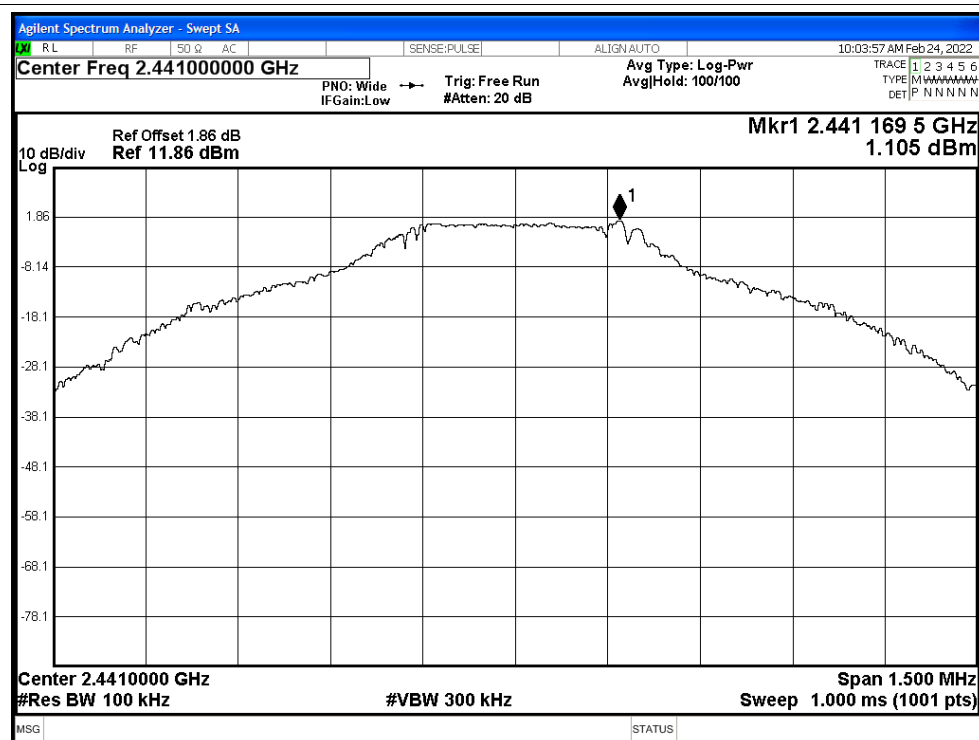


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

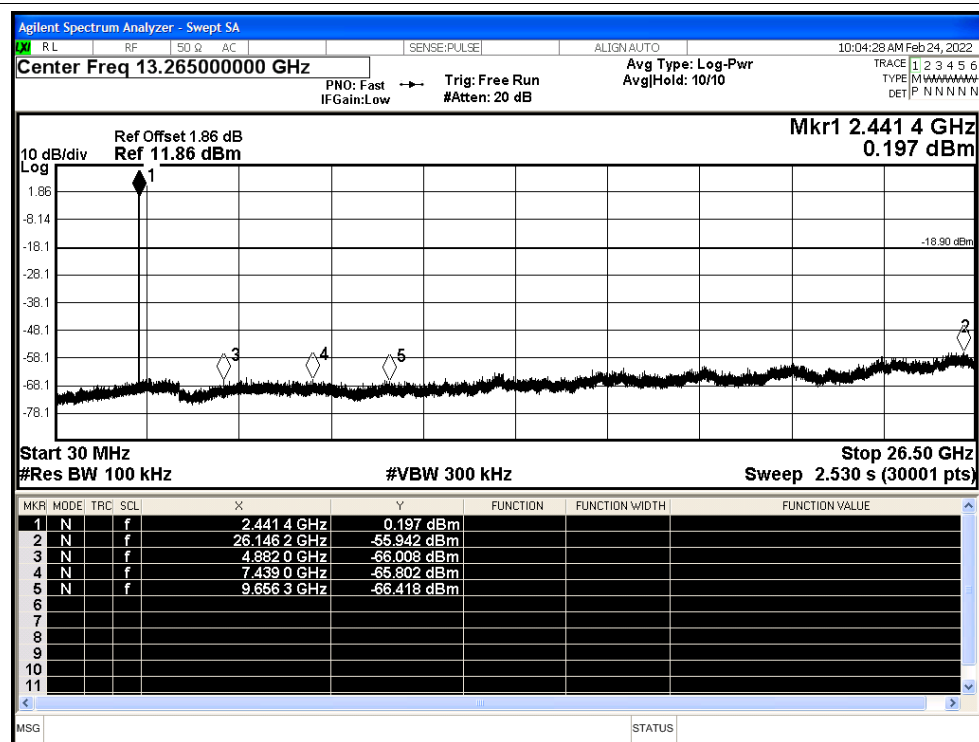




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

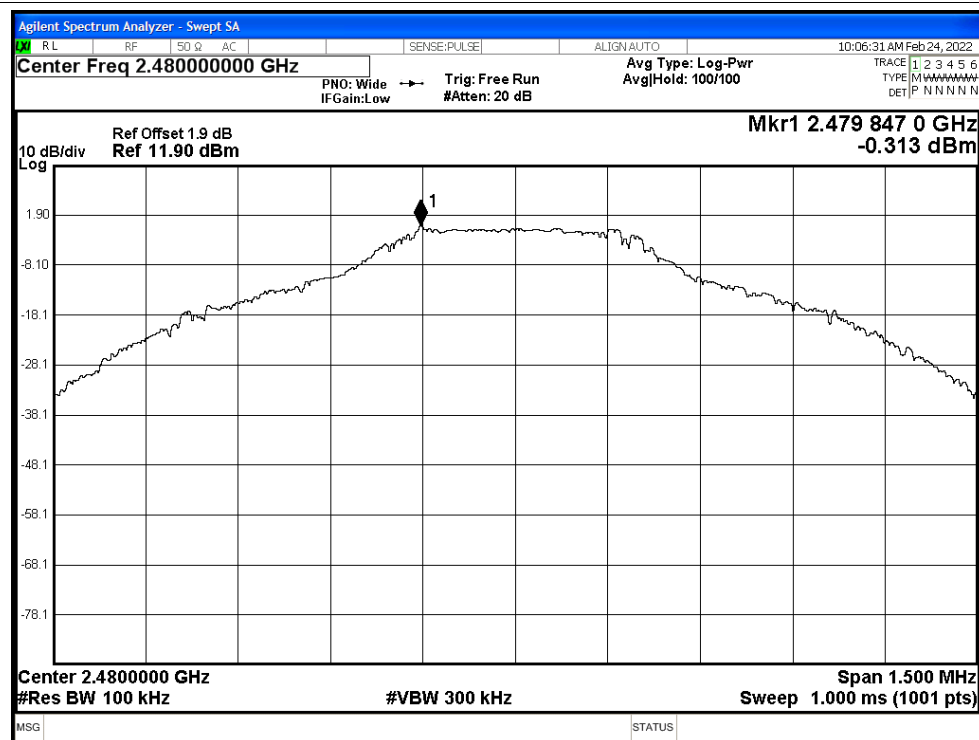


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

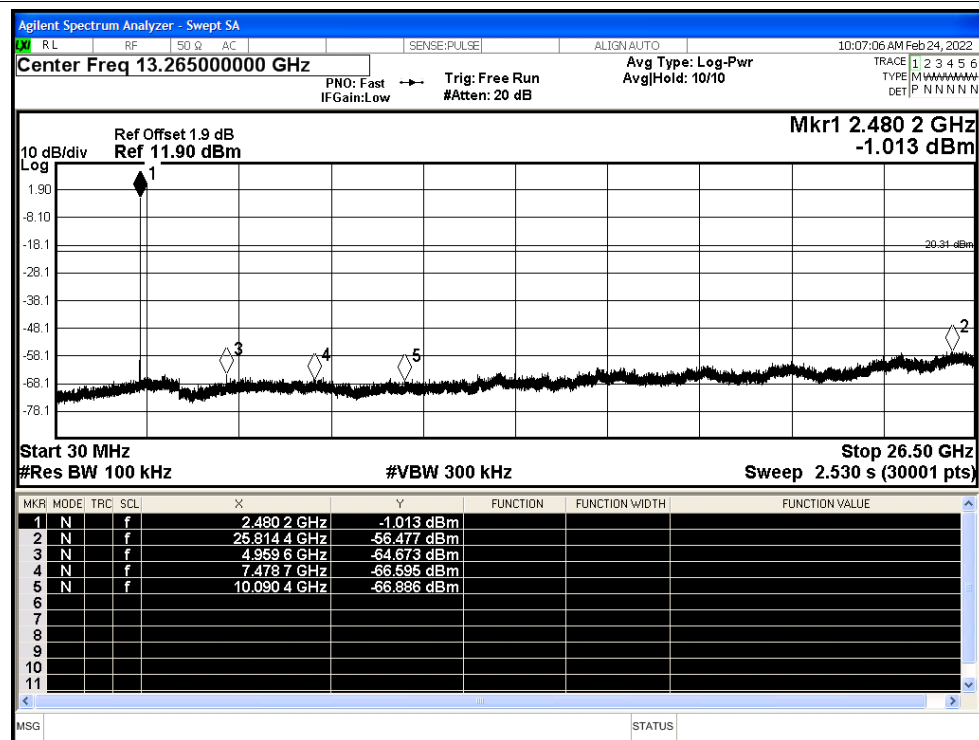




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

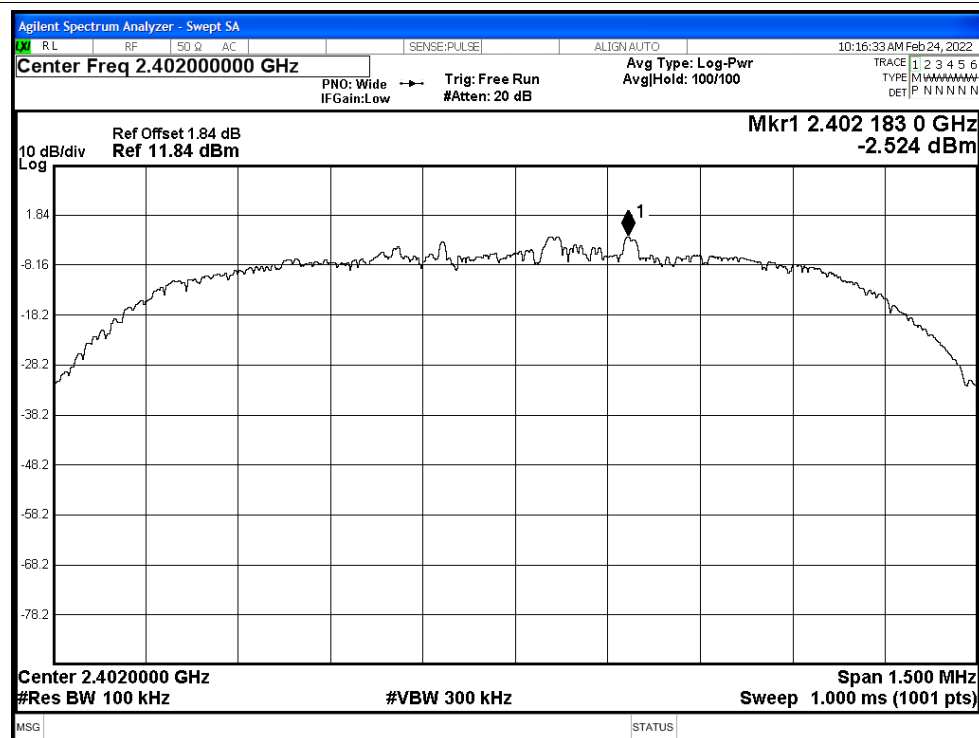


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

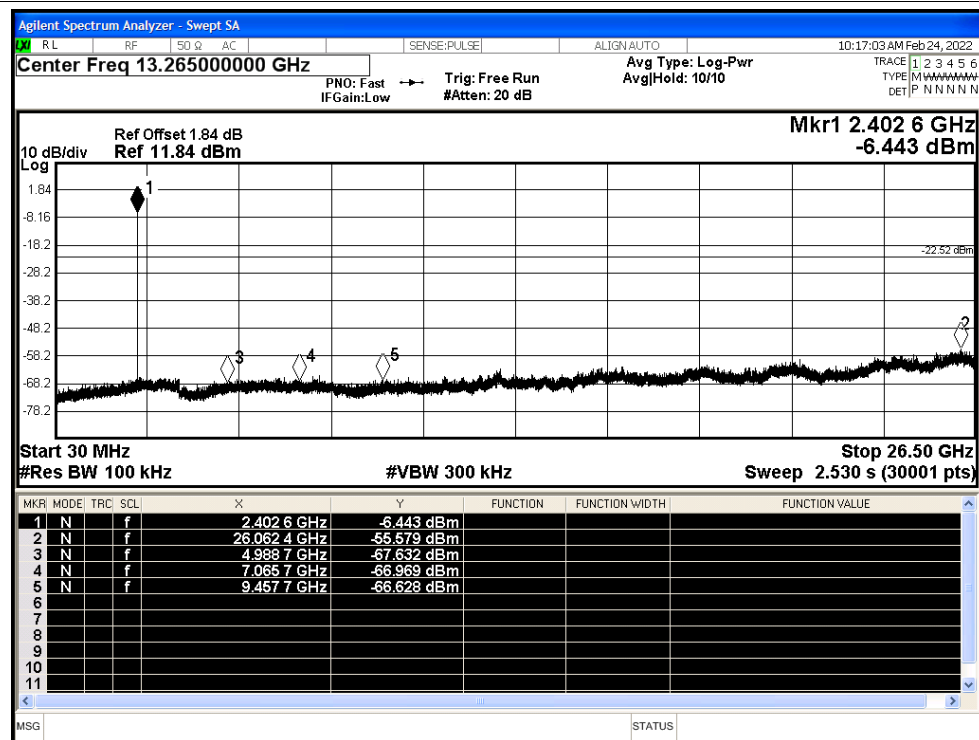




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

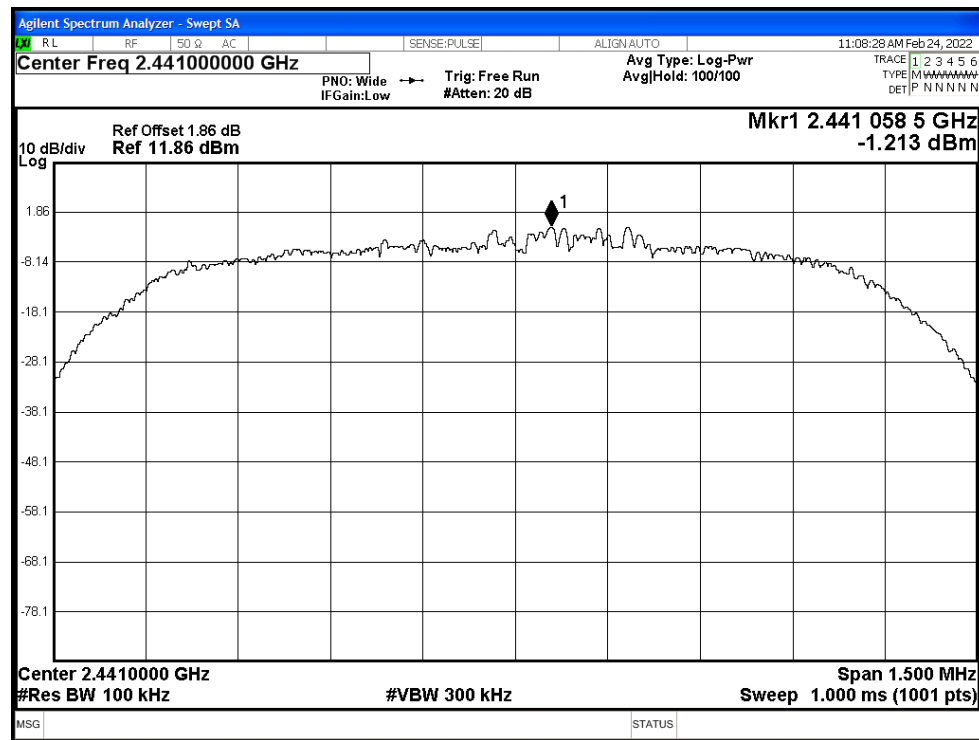


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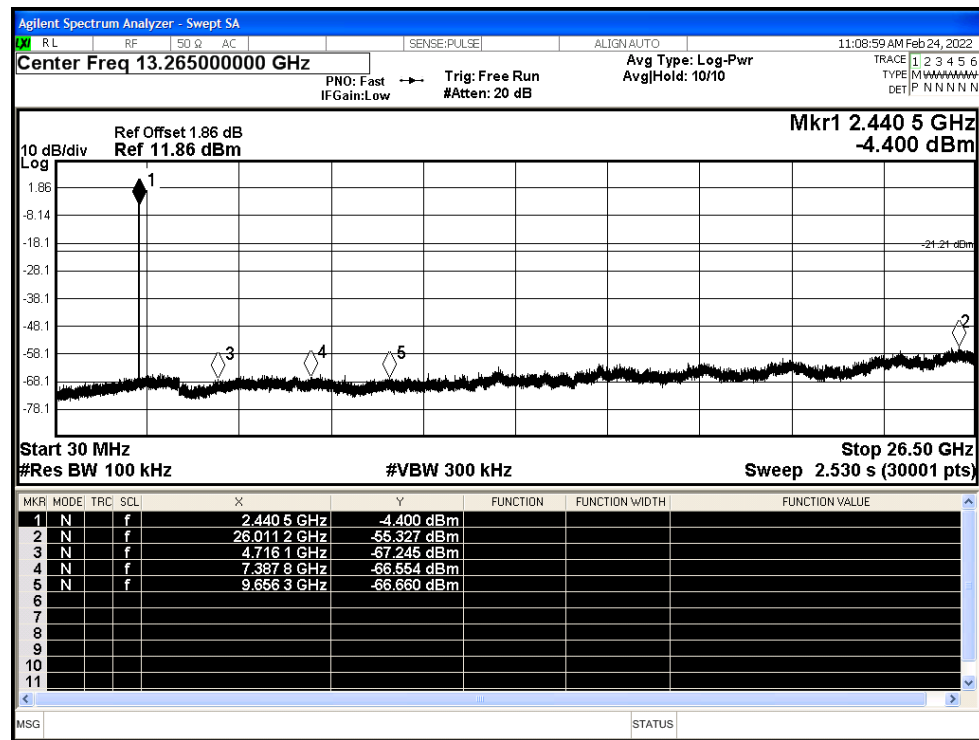




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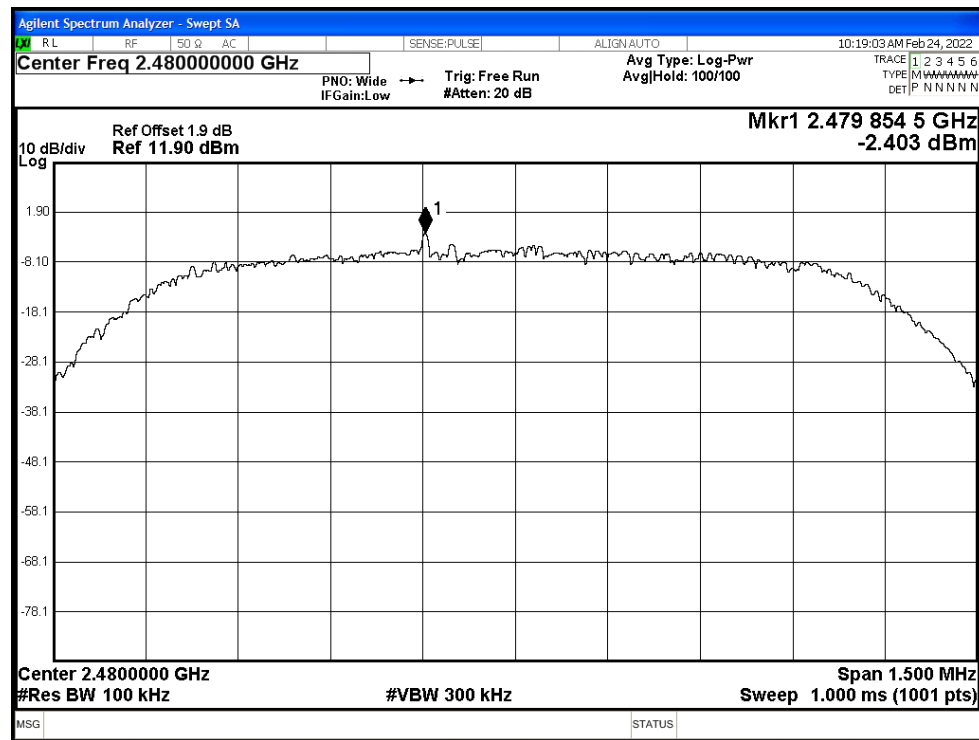


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

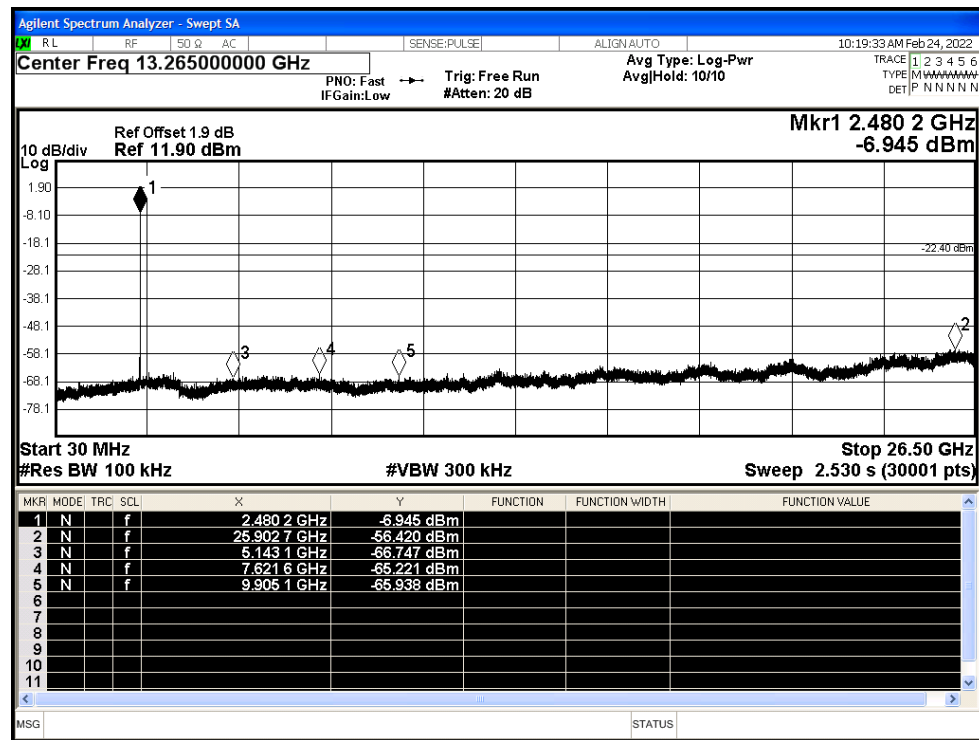




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

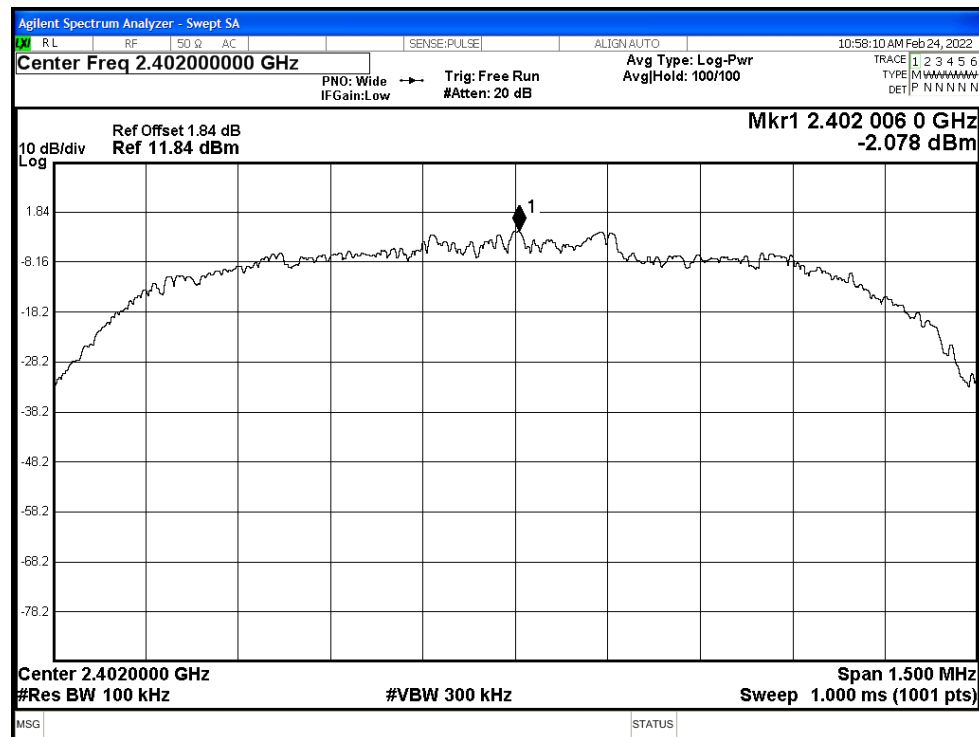


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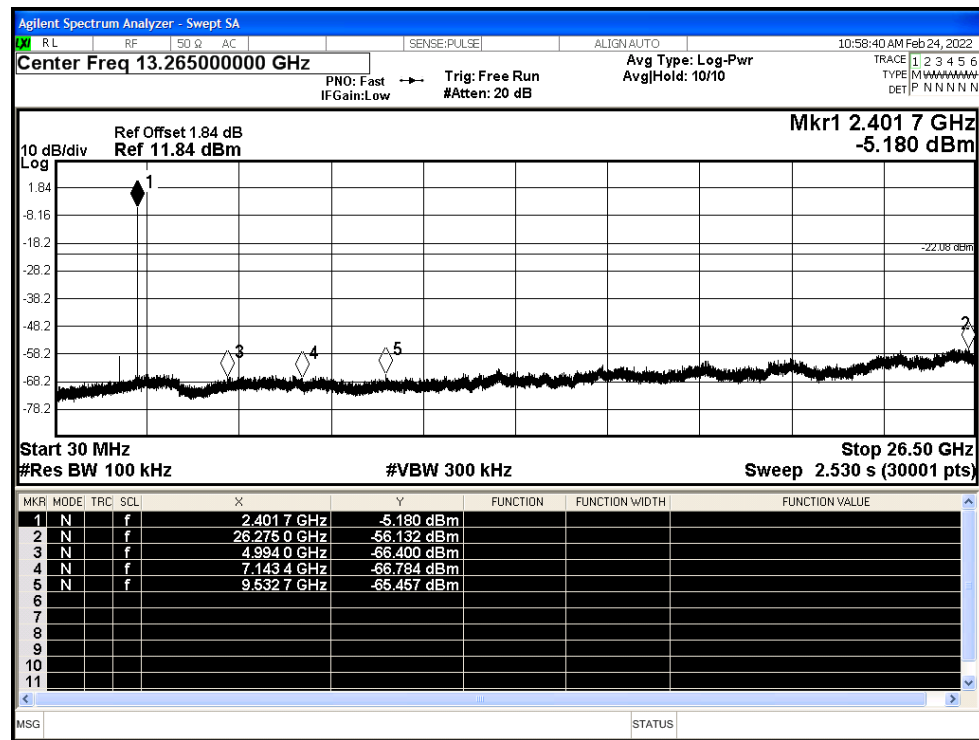




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

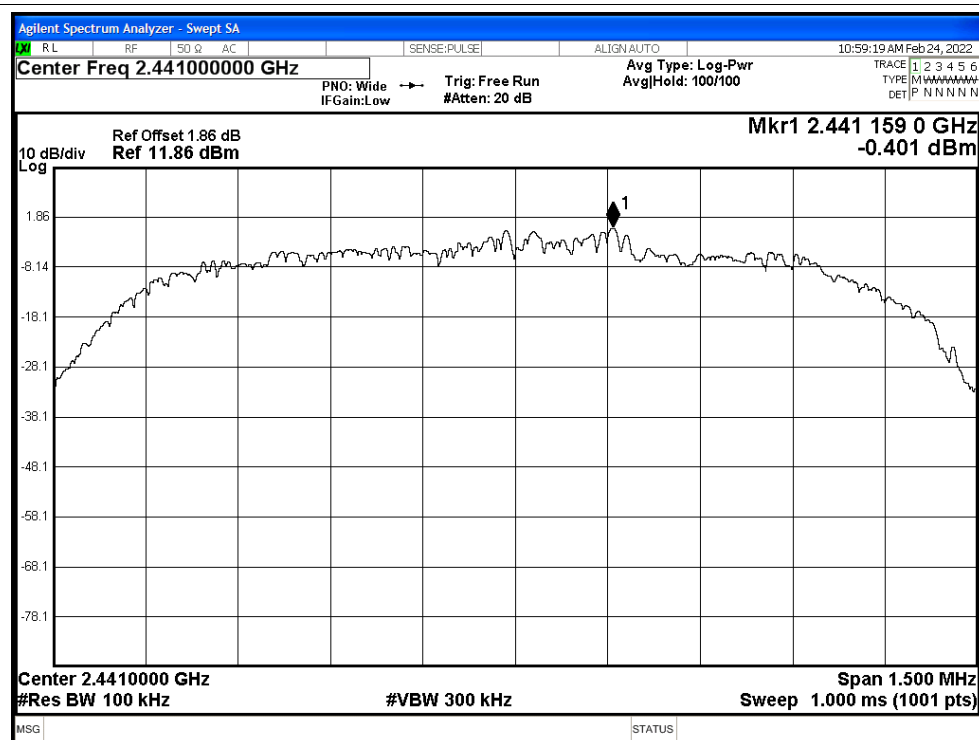


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

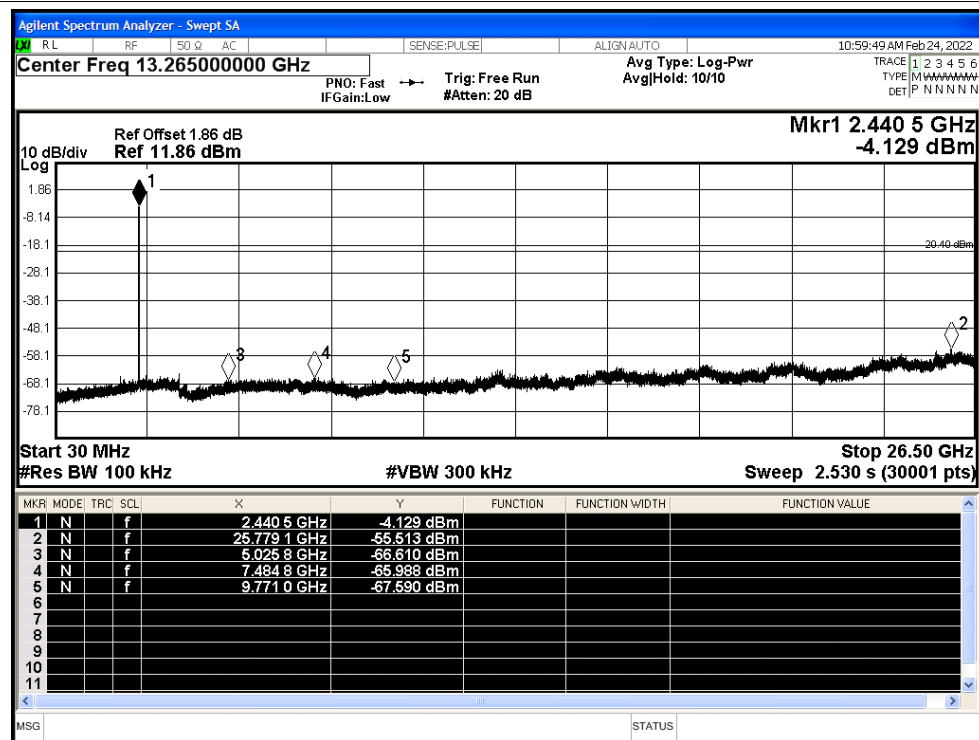




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

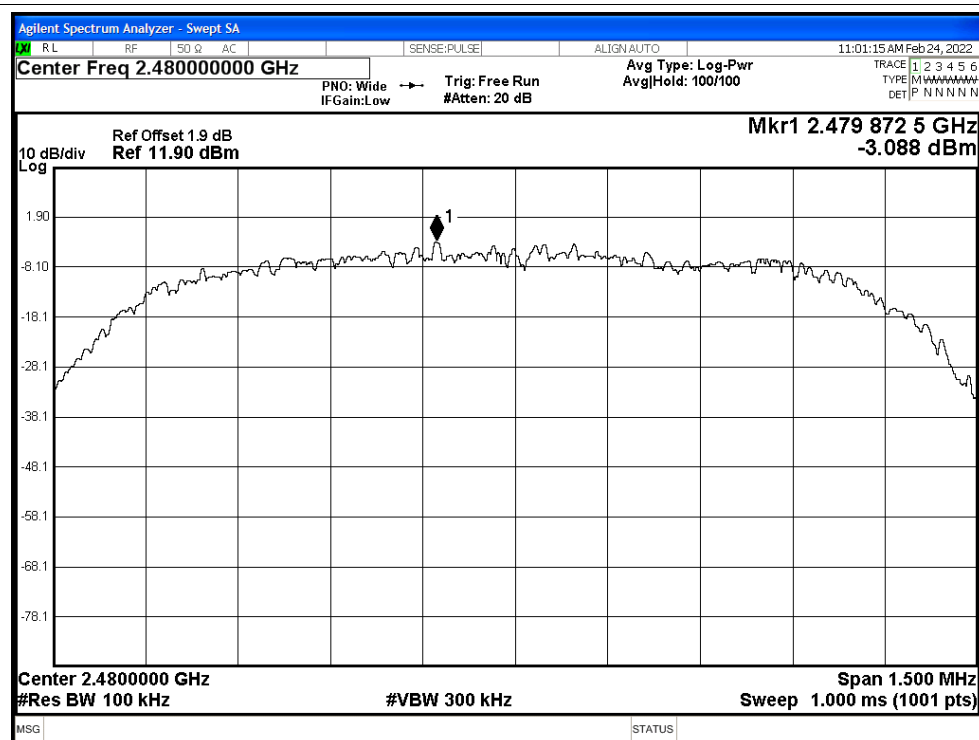


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

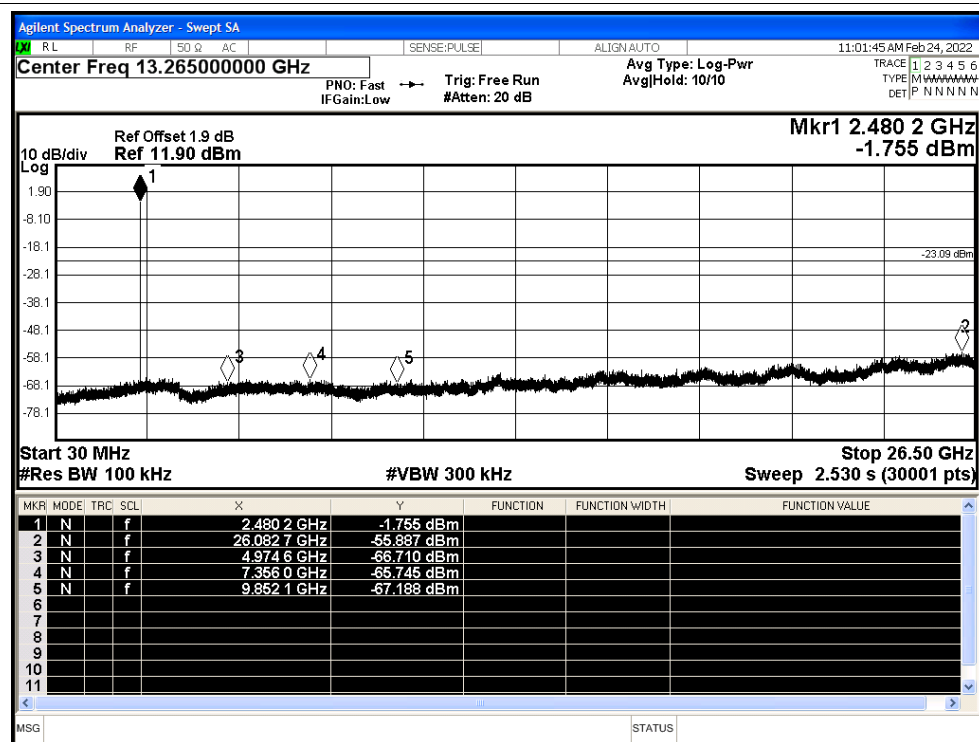




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





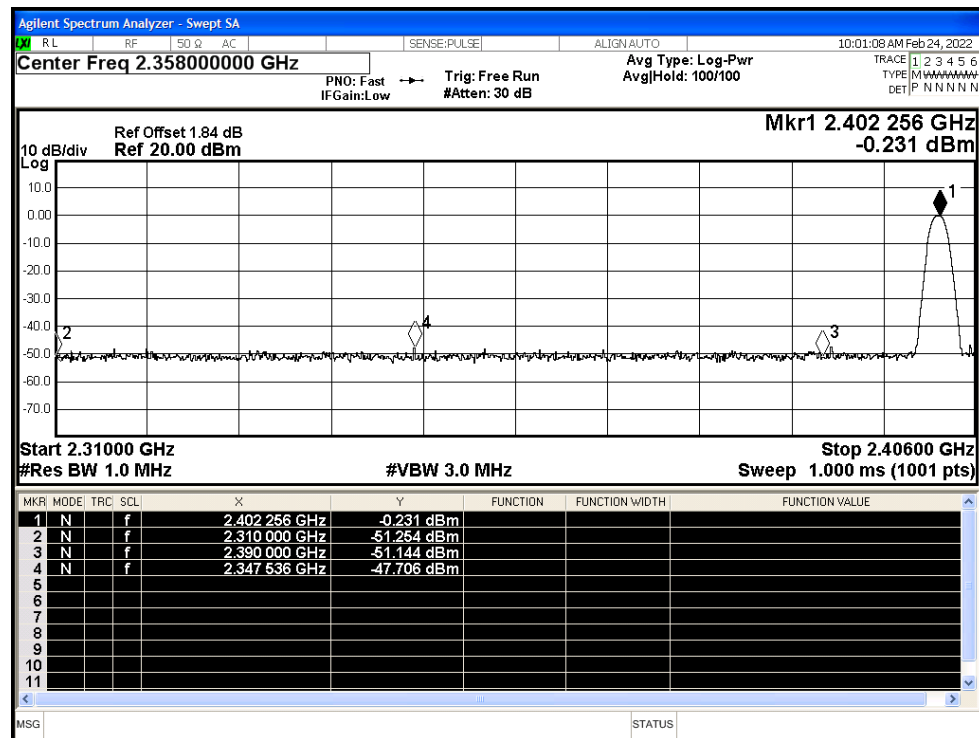
A.8 Restrict Band

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	-51.25	2	46.01	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.94	2	36.32	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2347.536	-47.7	2	49.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.552	-60.43	2	36.83	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.34	2	45.92	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.66	2	36.6	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.13	2	47.13	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.84	2	37.42	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.256	-47.26	2	50	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.776	-59.78	2	37.48	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.63	2	46.63	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.18	2	37.08	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.34	2	45.92	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.82	2	36.44	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2384.88	-47.96	2	49.3	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.576	-60.33	2	36.93	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.75	2	46.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.47	2	36.79	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.82	2	46.44	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.66	2	37.6	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.712	-47.46	2	49.8	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.632	-59.65	2	37.61	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.41	2	46.85	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.17	2	37.09	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.31	2	45.95	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.74	2	36.52	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2367.312	-48.11	2	49.15	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2382.576	-60.23	2	37.03	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.99	2	47.27	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.3	2	36.96	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.48	2	46.78	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.88	2	37.38	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2489.392	-47.47	2	49.79	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.52	-59.68	2	37.58	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.84	2	47.42	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.08	2	37.18	Average	54	Pass

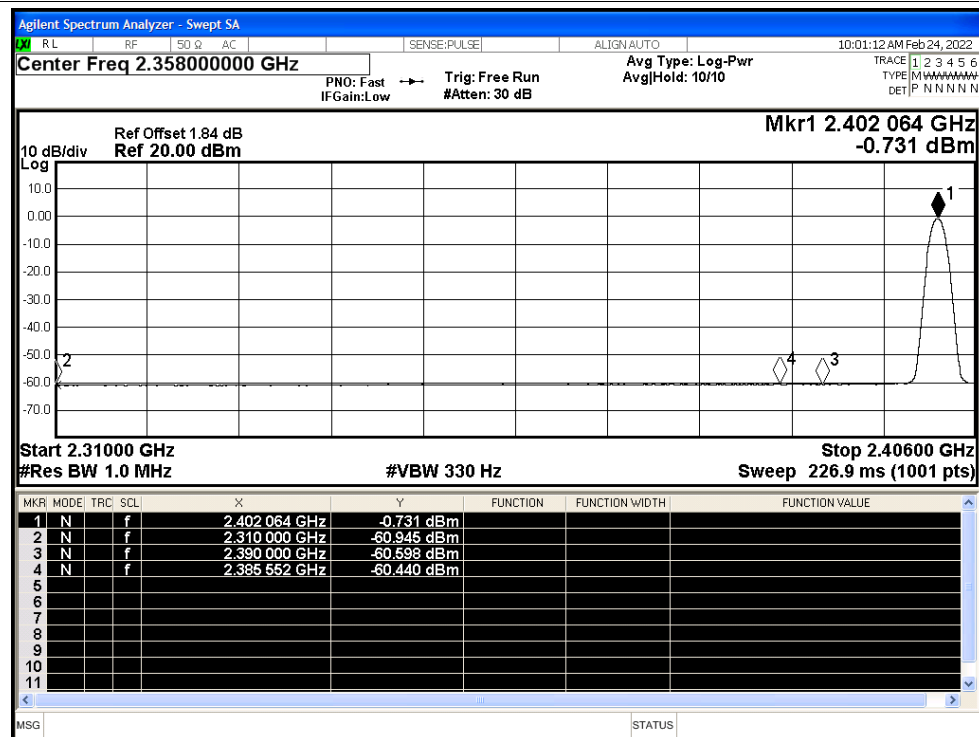


Test Graphs

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

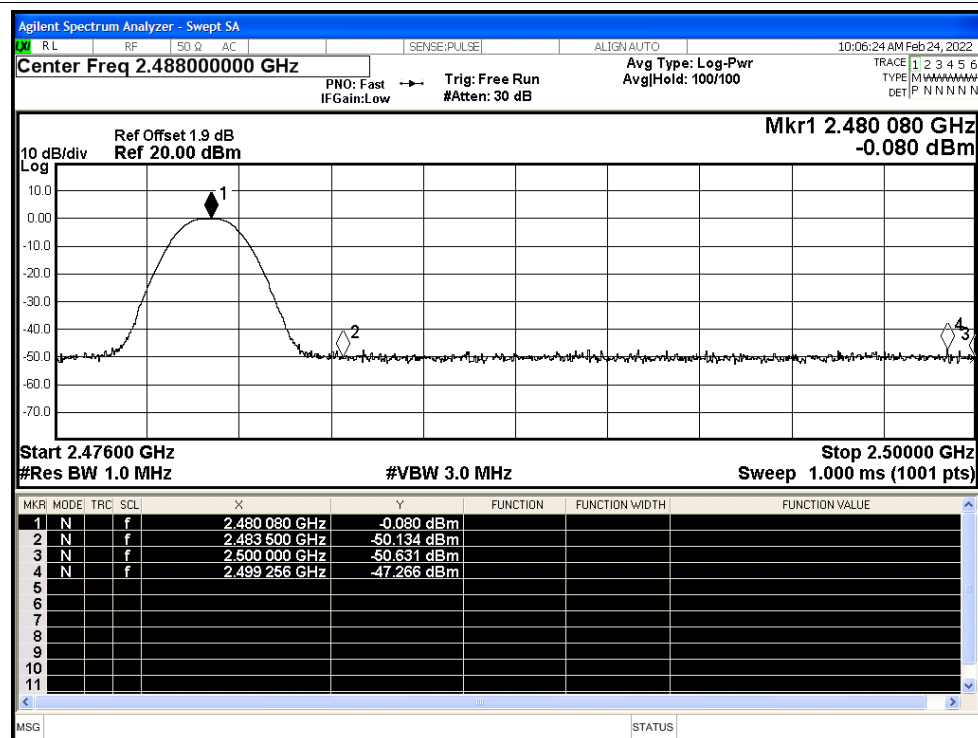


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

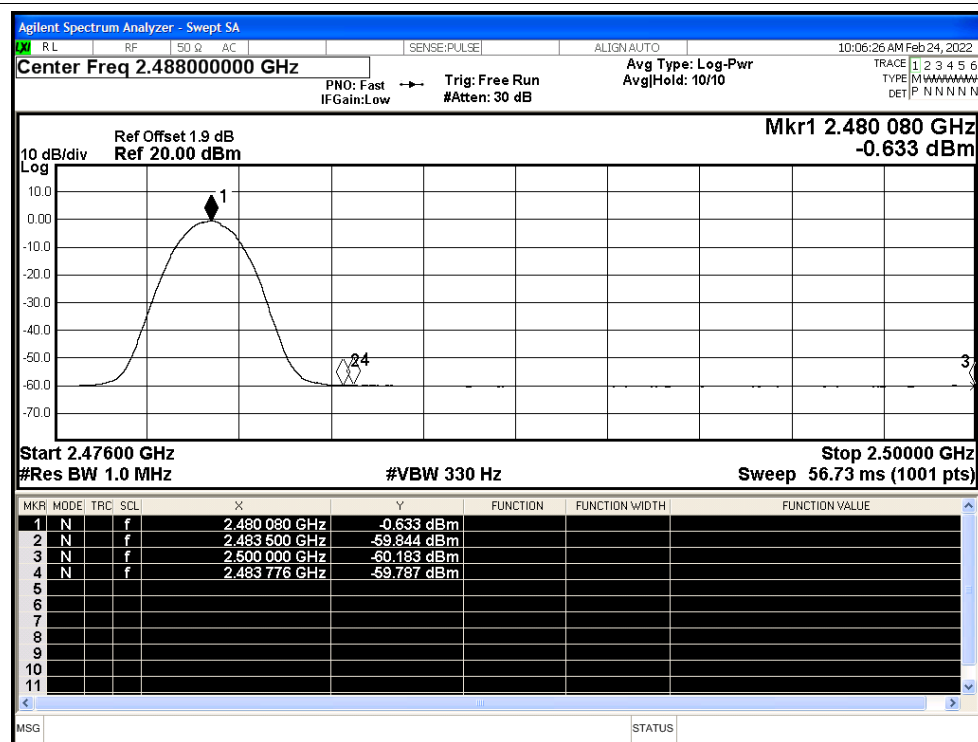




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

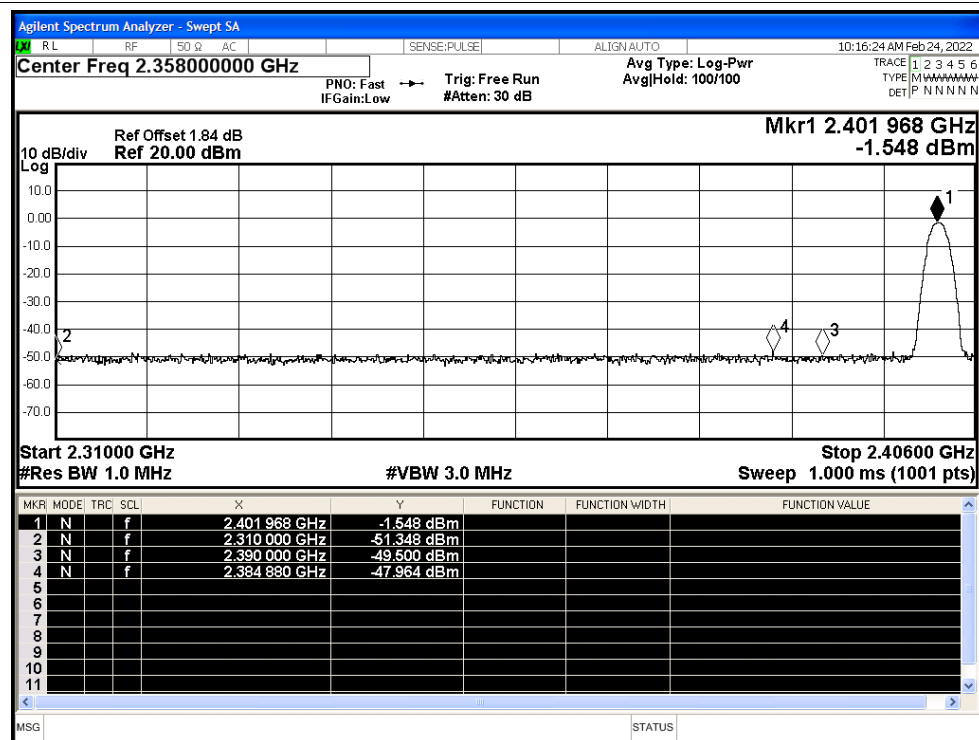


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

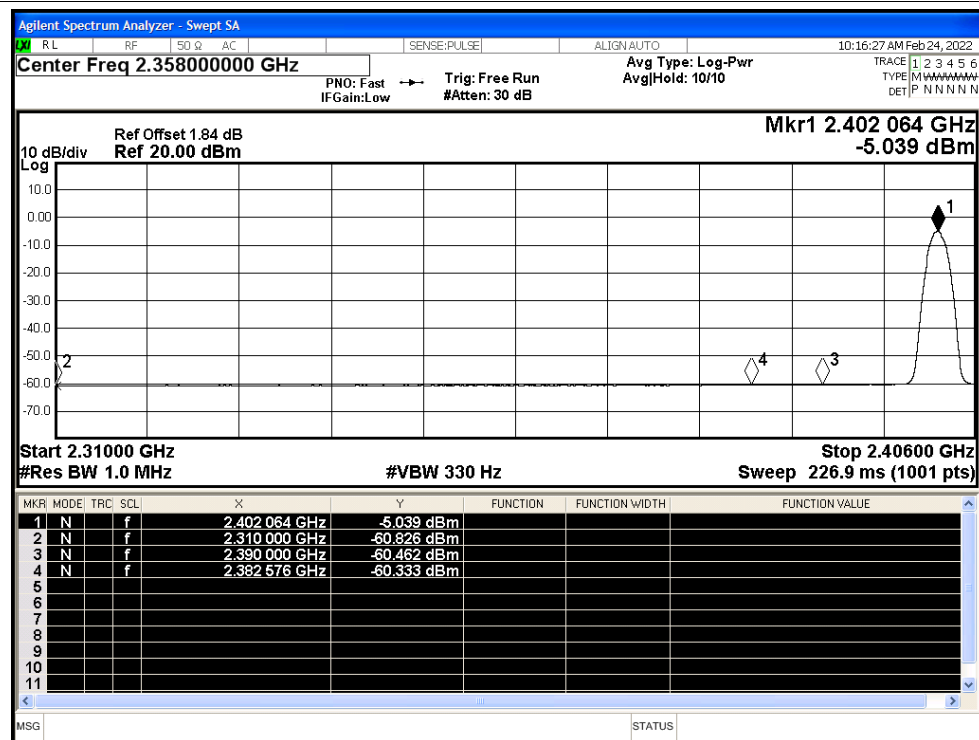




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

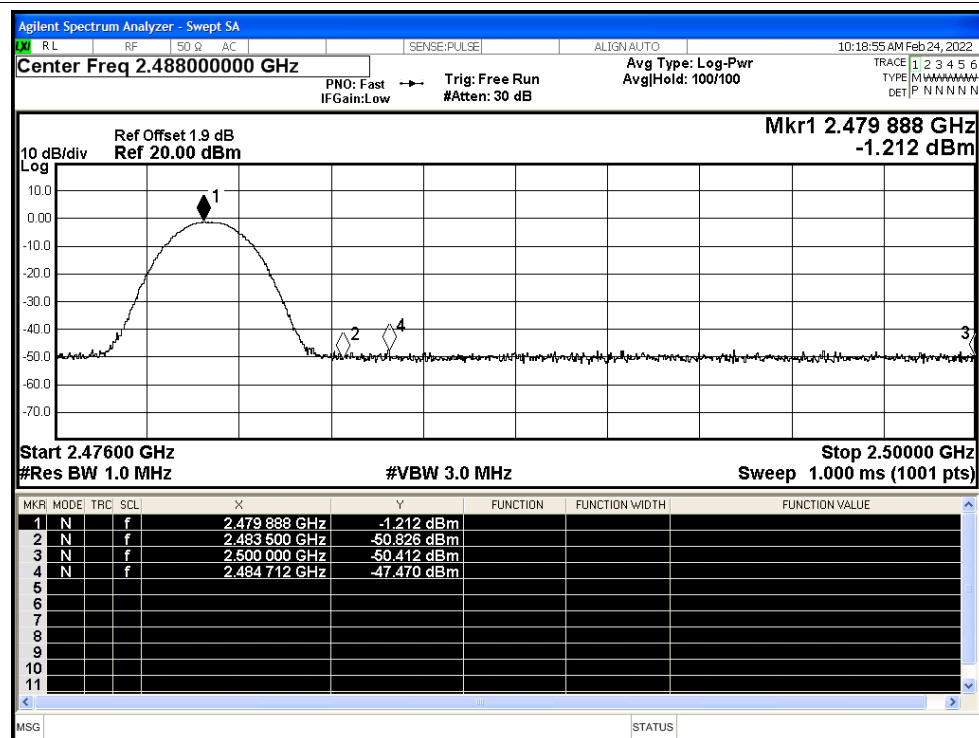


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

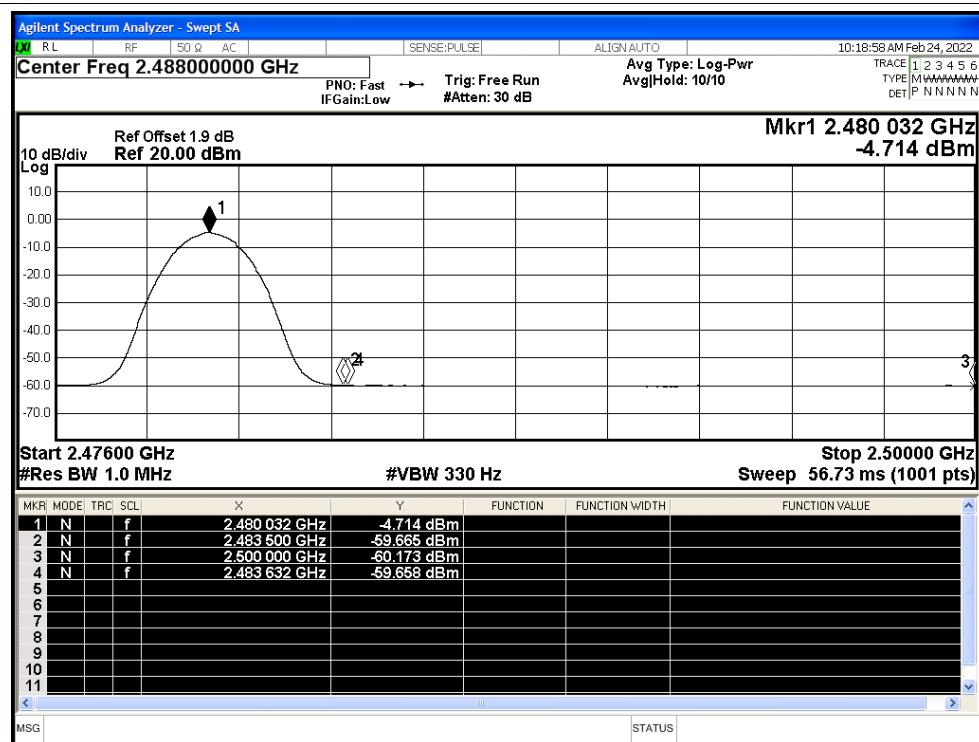




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

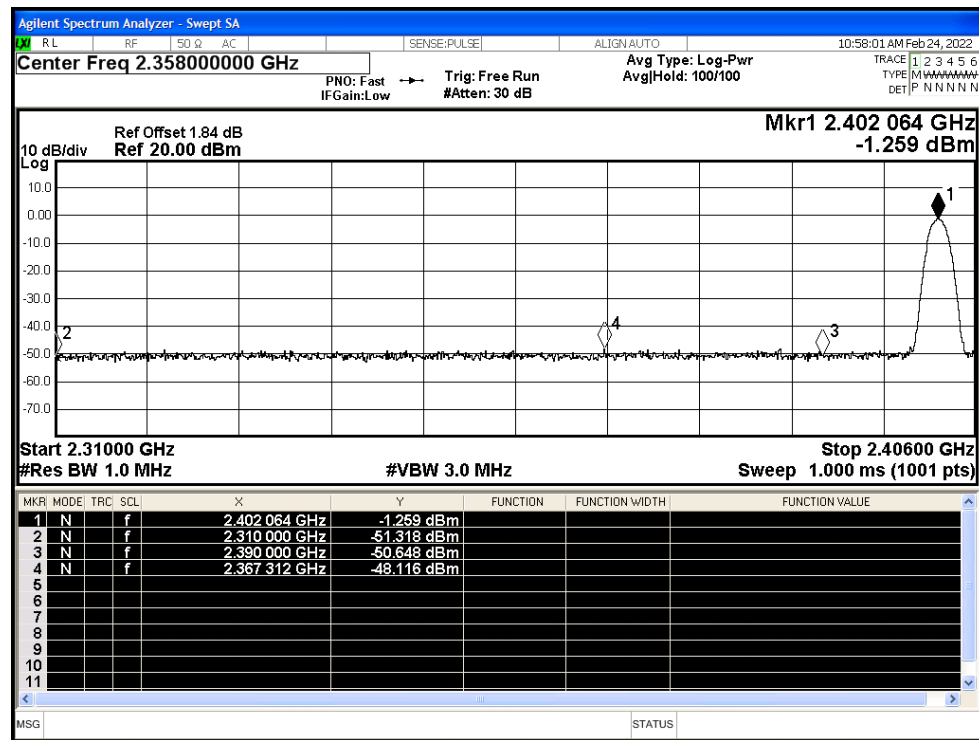


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

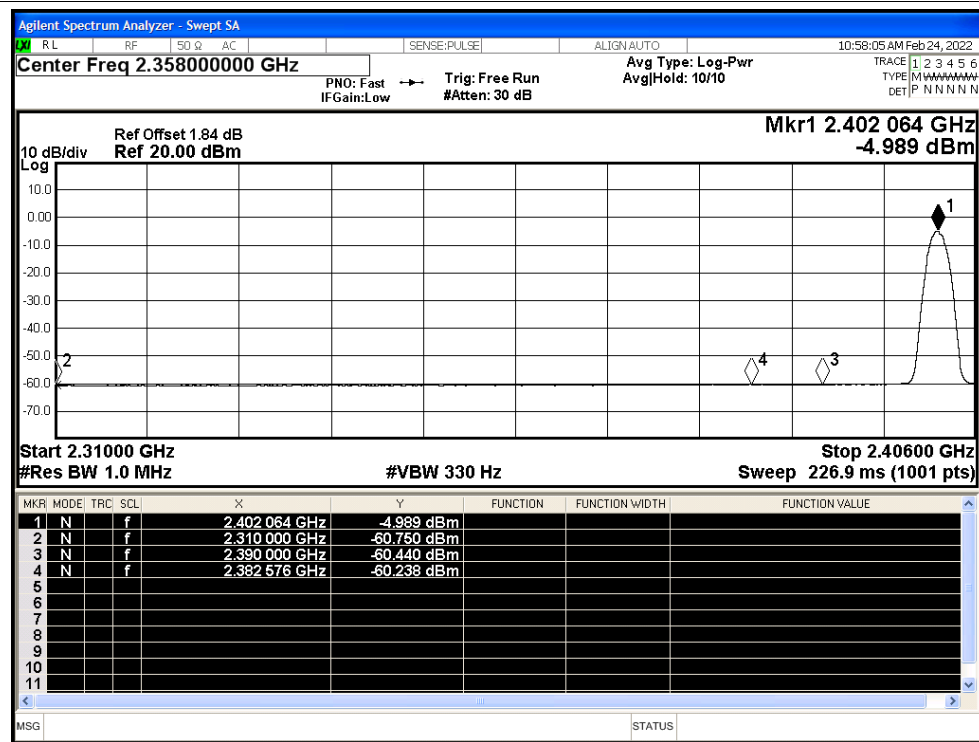




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

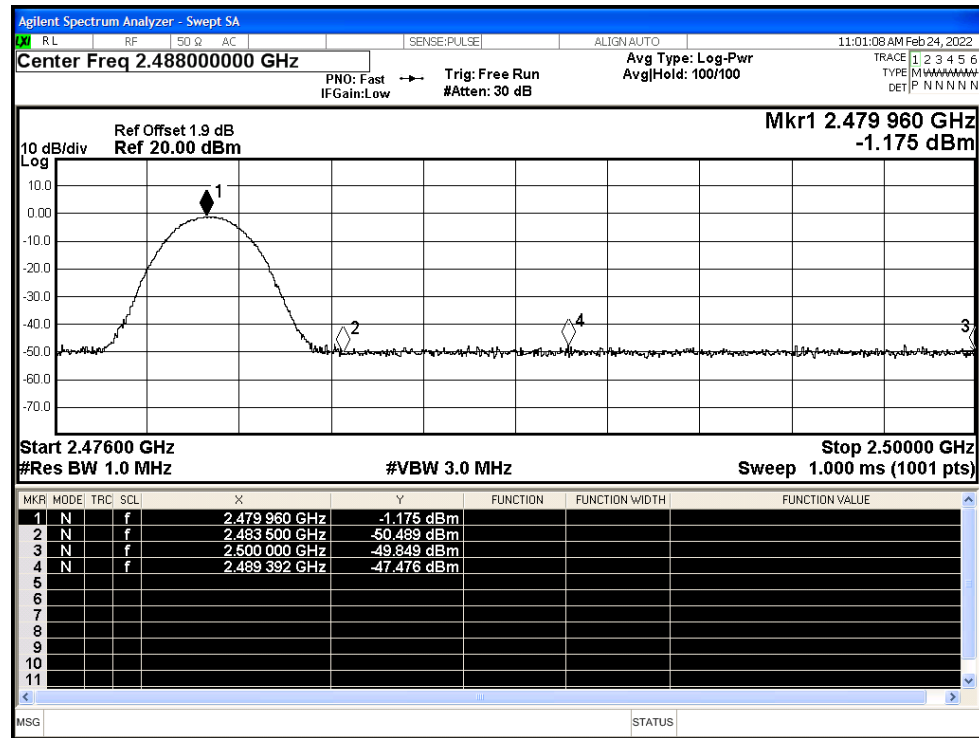


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

