



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Switch Game Controller

Test Model: SC-1

Environmental Conditions

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



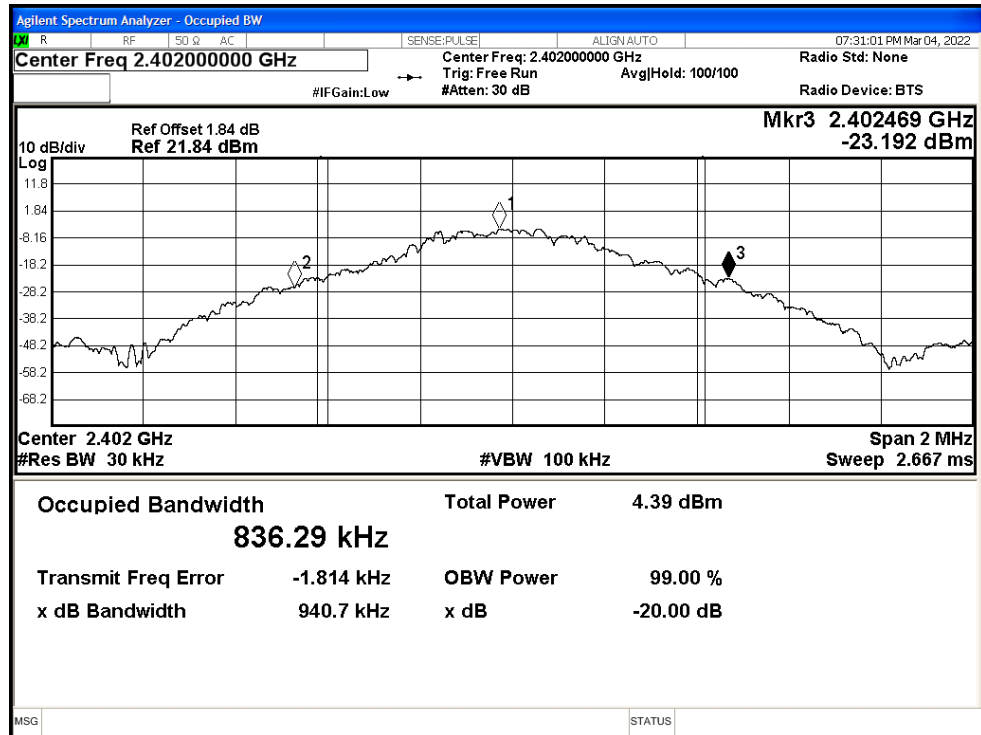
A.1 20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.941	0	Pass
NVNT	1-DH5	2441	Ant1	0.944	0	Pass
NVNT	1-DH5	2480	Ant1	0.939	0	Pass
NVNT	2-DH5	2402	Ant1	1.334	0	Pass
NVNT	2-DH5	2441	Ant1	1.328	0	Pass
NVNT	2-DH5	2480	Ant1	1.325	0	Pass
NVNT	3-DH5	2402	Ant1	1.306	0	Pass
NVNT	3-DH5	2441	Ant1	1.345	0	Pass
NVNT	3-DH5	2480	Ant1	1.309	0	Pass



Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

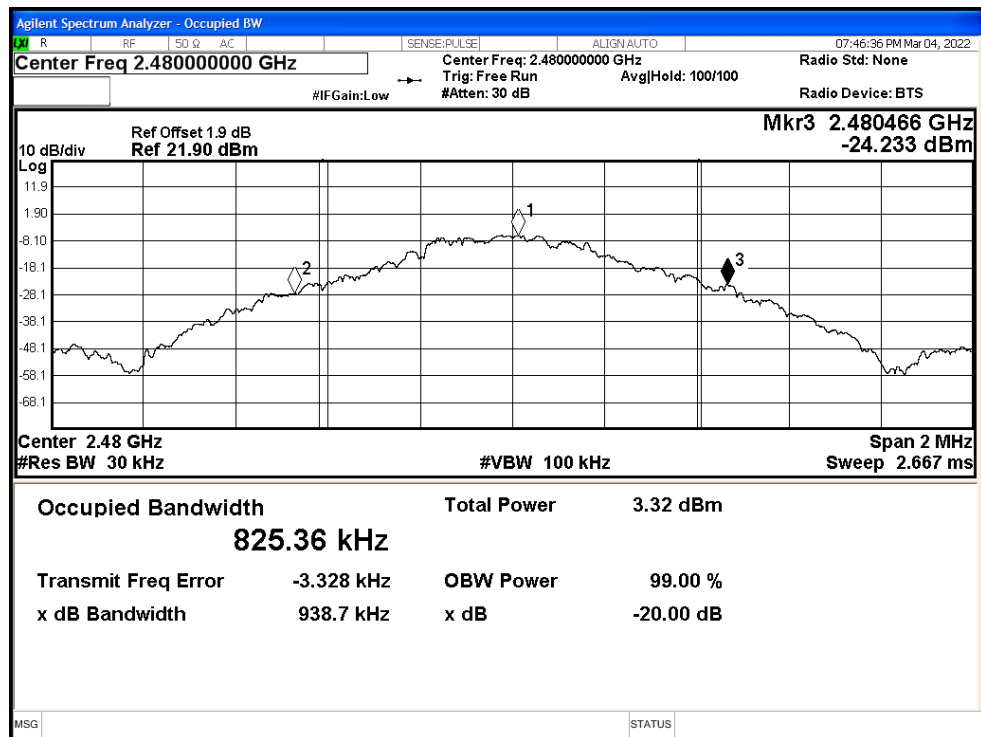


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

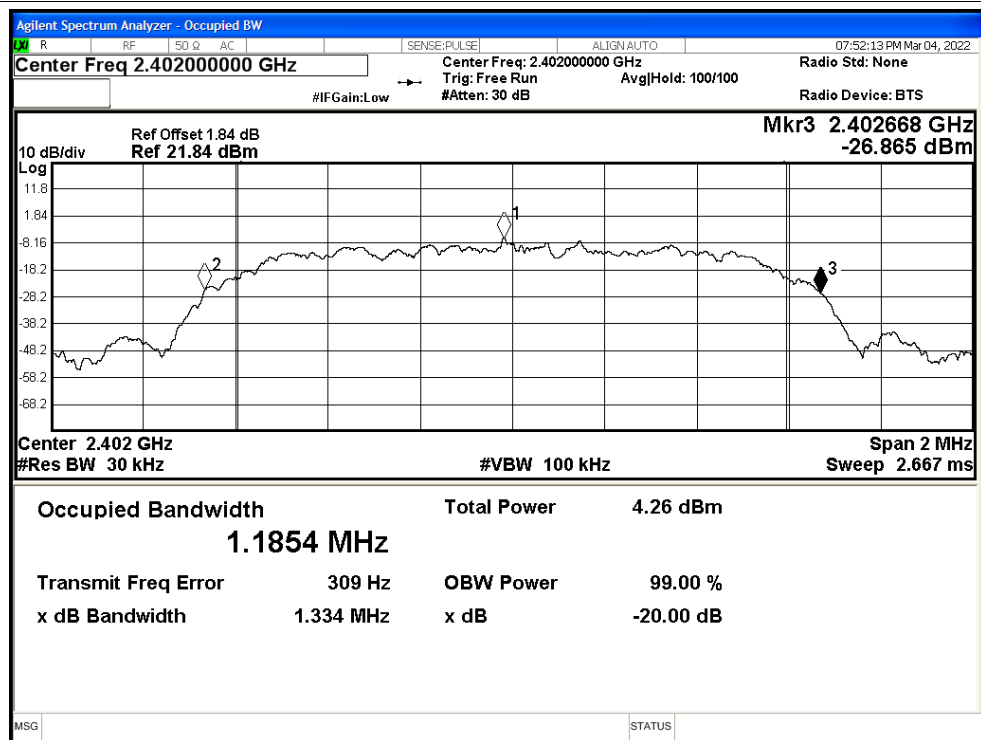




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

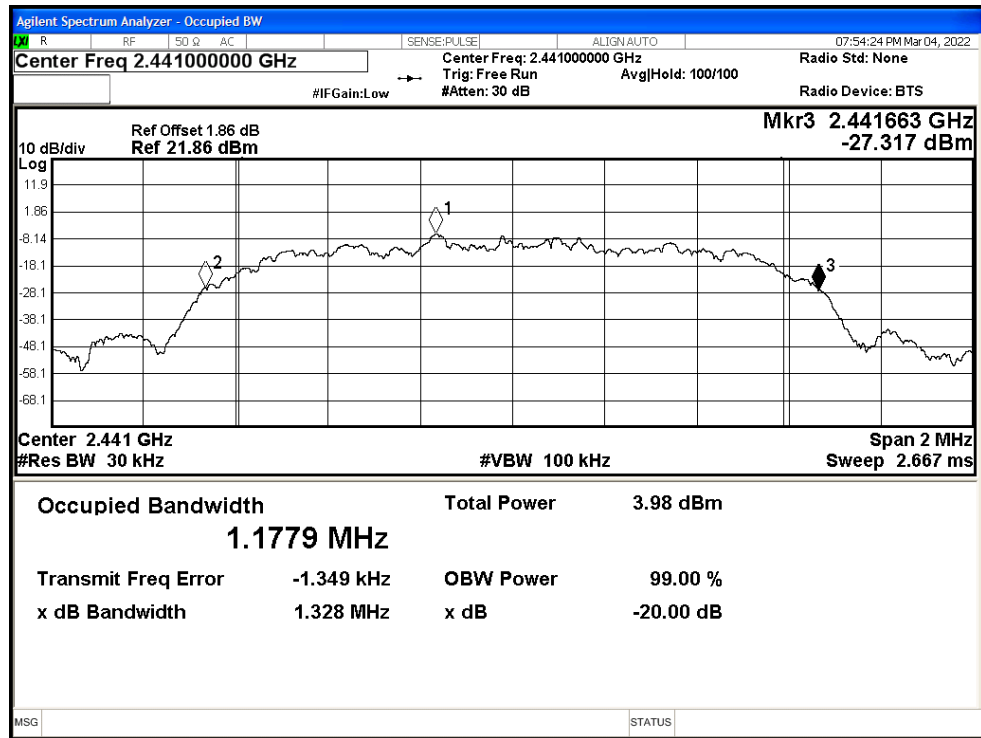


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

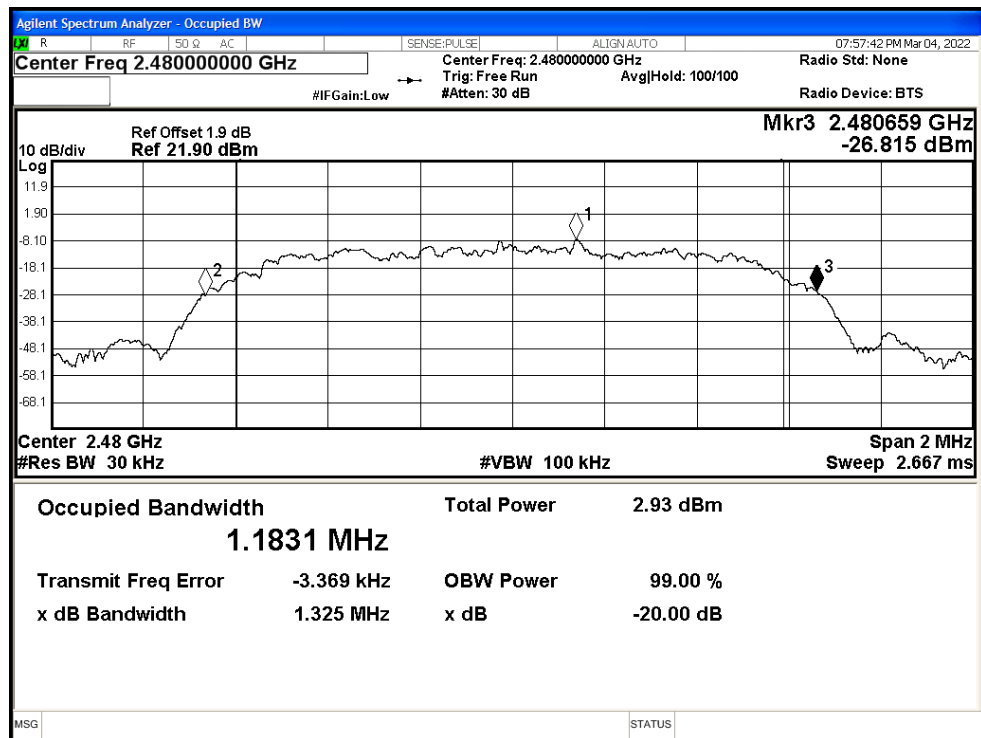




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

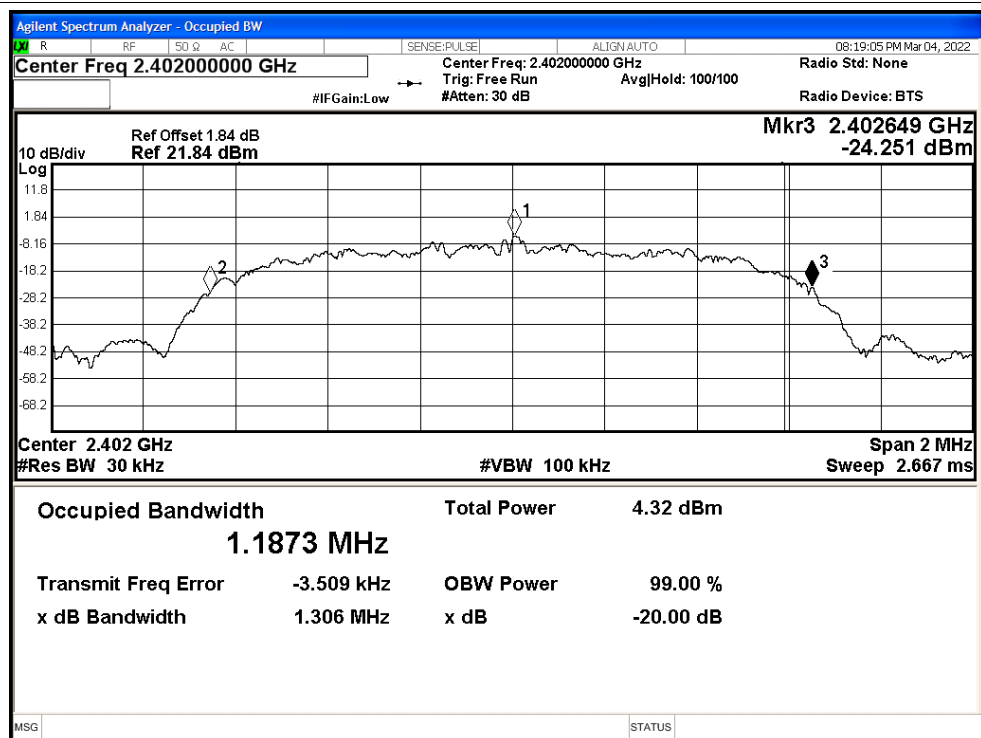


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

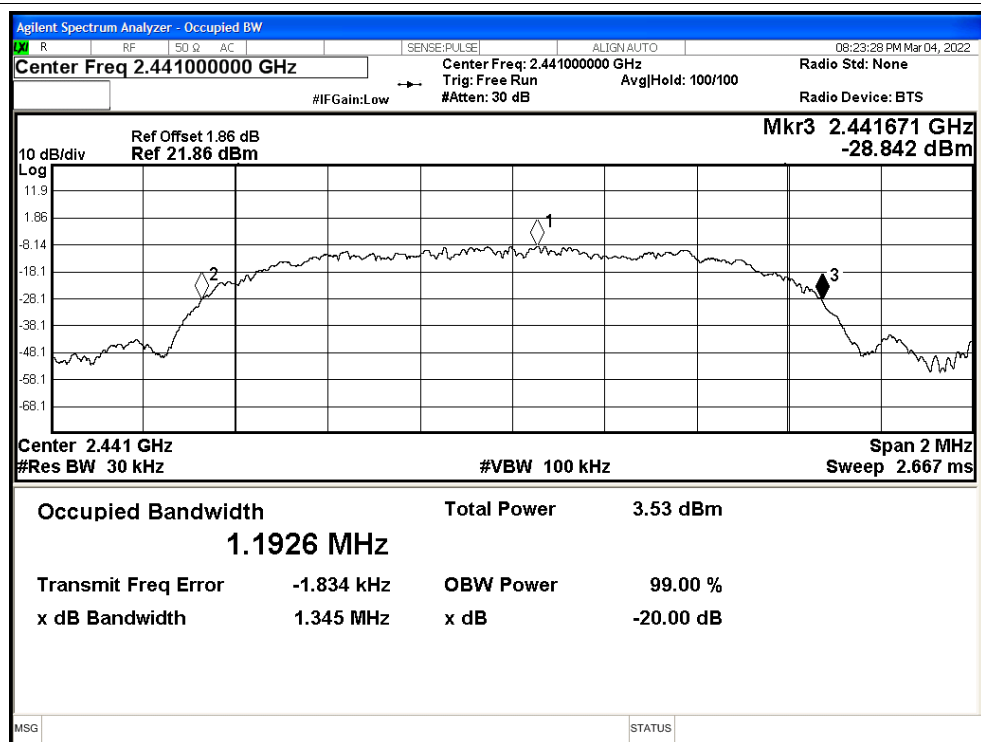


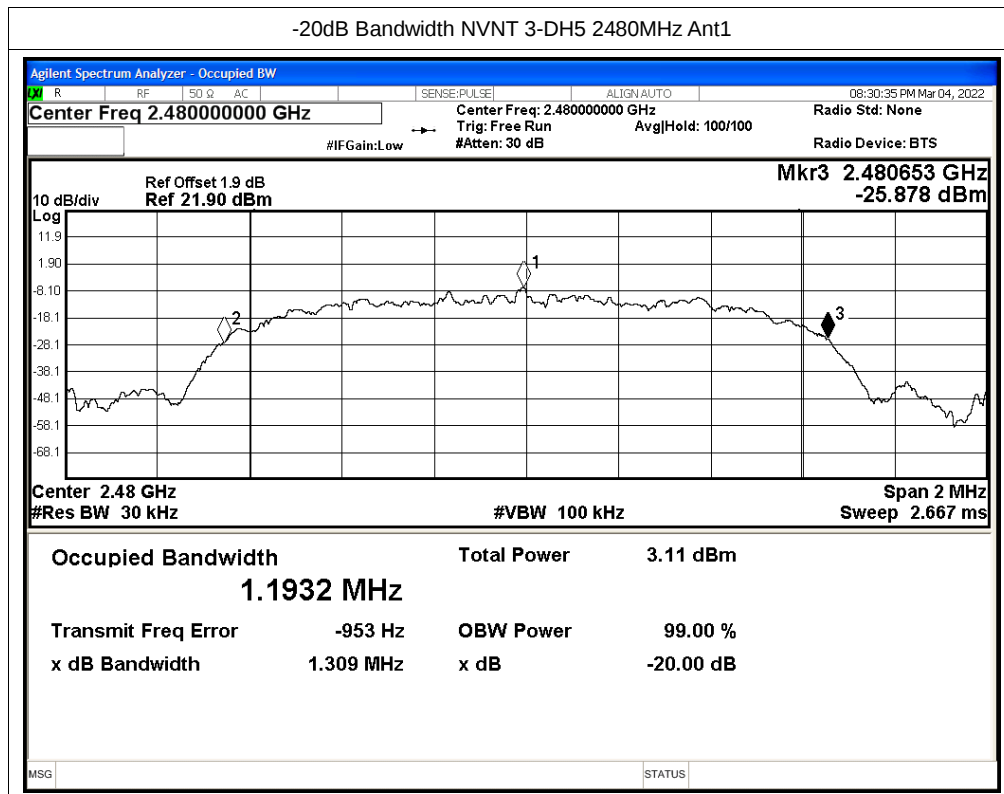


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







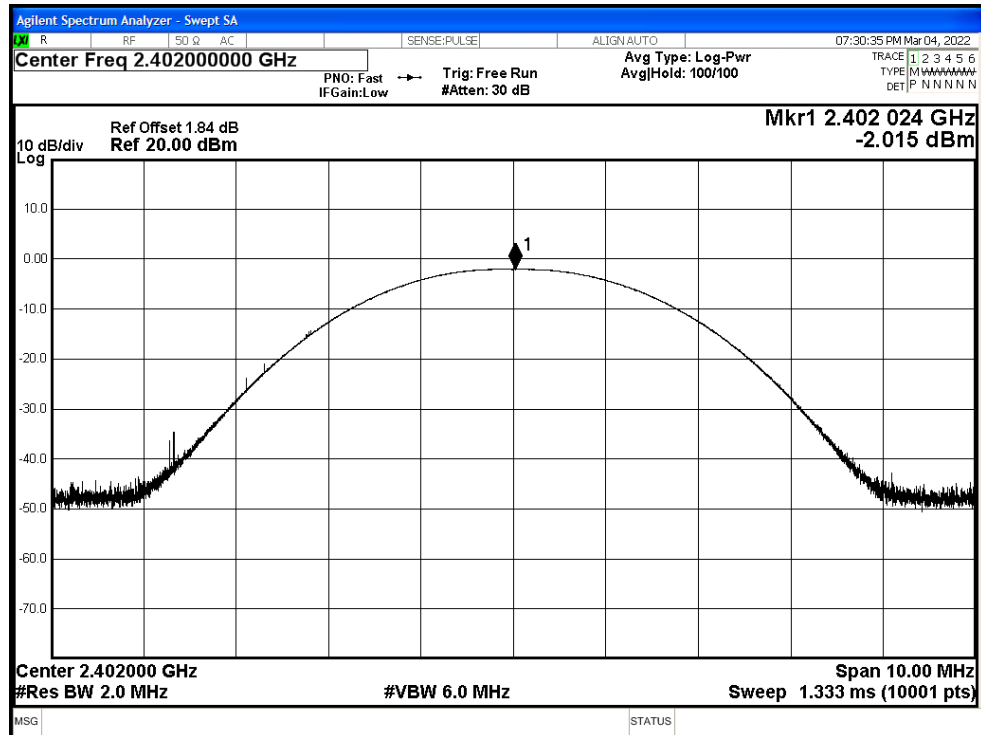
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.02	0	-2.02	21	Pass
NVNT	1-DH5	2441	Ant1	-2.55	0	-2.55	21	Pass
NVNT	1-DH5	2480	Ant1	-3.22	0	-3.22	21	Pass
NVNT	2-DH5	2402	Ant1	0.29	0	0.29	21	Pass
NVNT	2-DH5	2441	Ant1	-0.25	0	-0.25	21	Pass
NVNT	2-DH5	2480	Ant1	-1.02	0	-1.02	21	Pass
NVNT	3-DH5	2402	Ant1	1.00	0	1.00	21	Pass
NVNT	3-DH5	2441	Ant1	0.32	0	0.32	21	Pass
NVNT	3-DH5	2480	Ant1	-0.36	0	-0.36	21	Pass

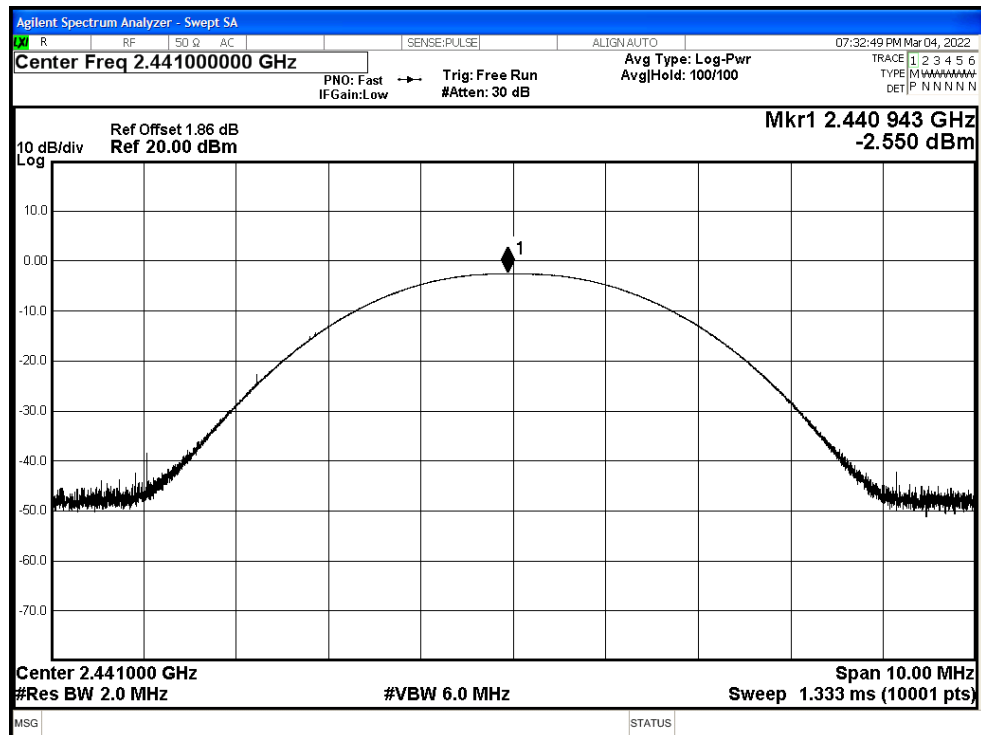


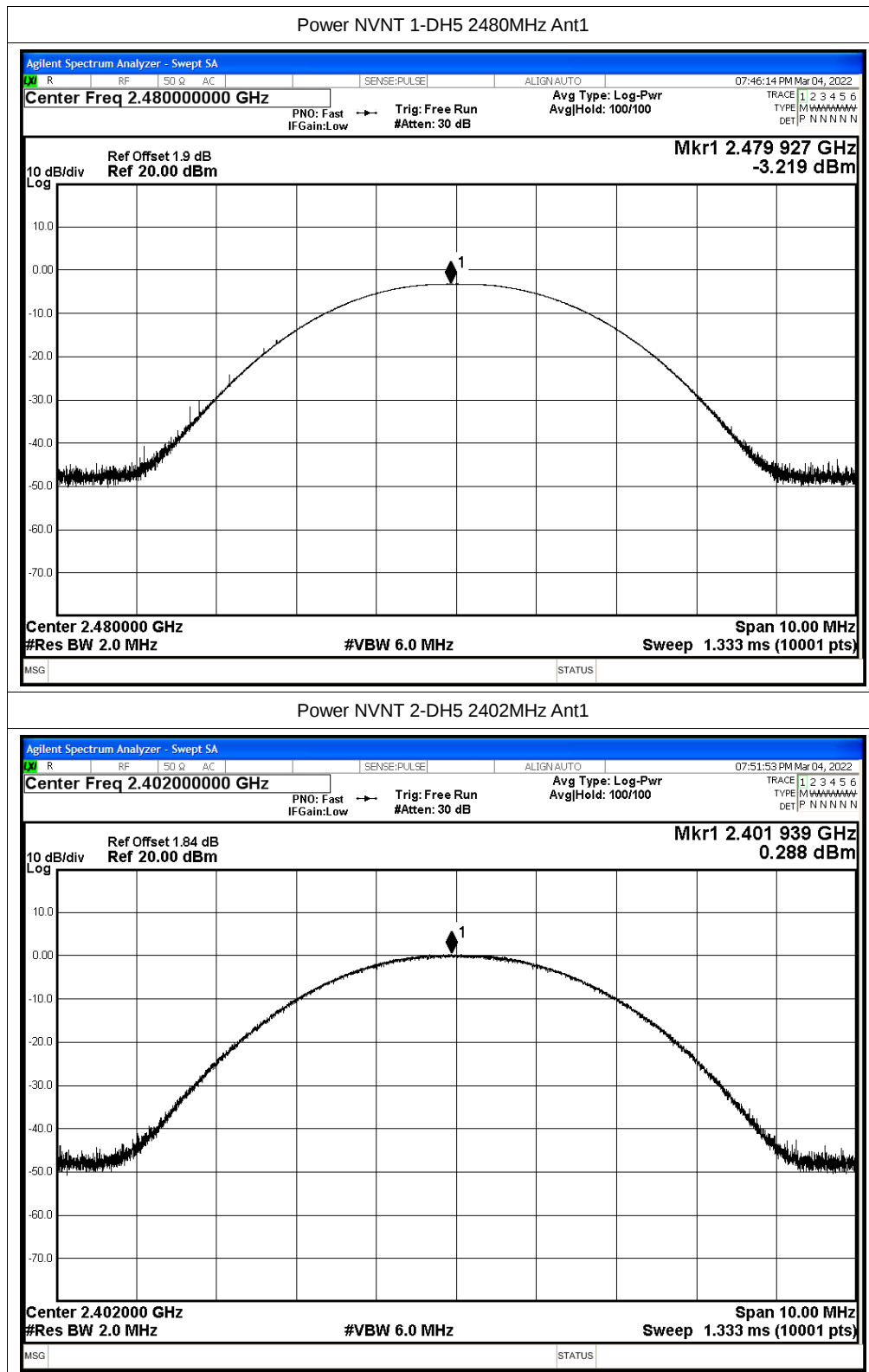
Test Graphs

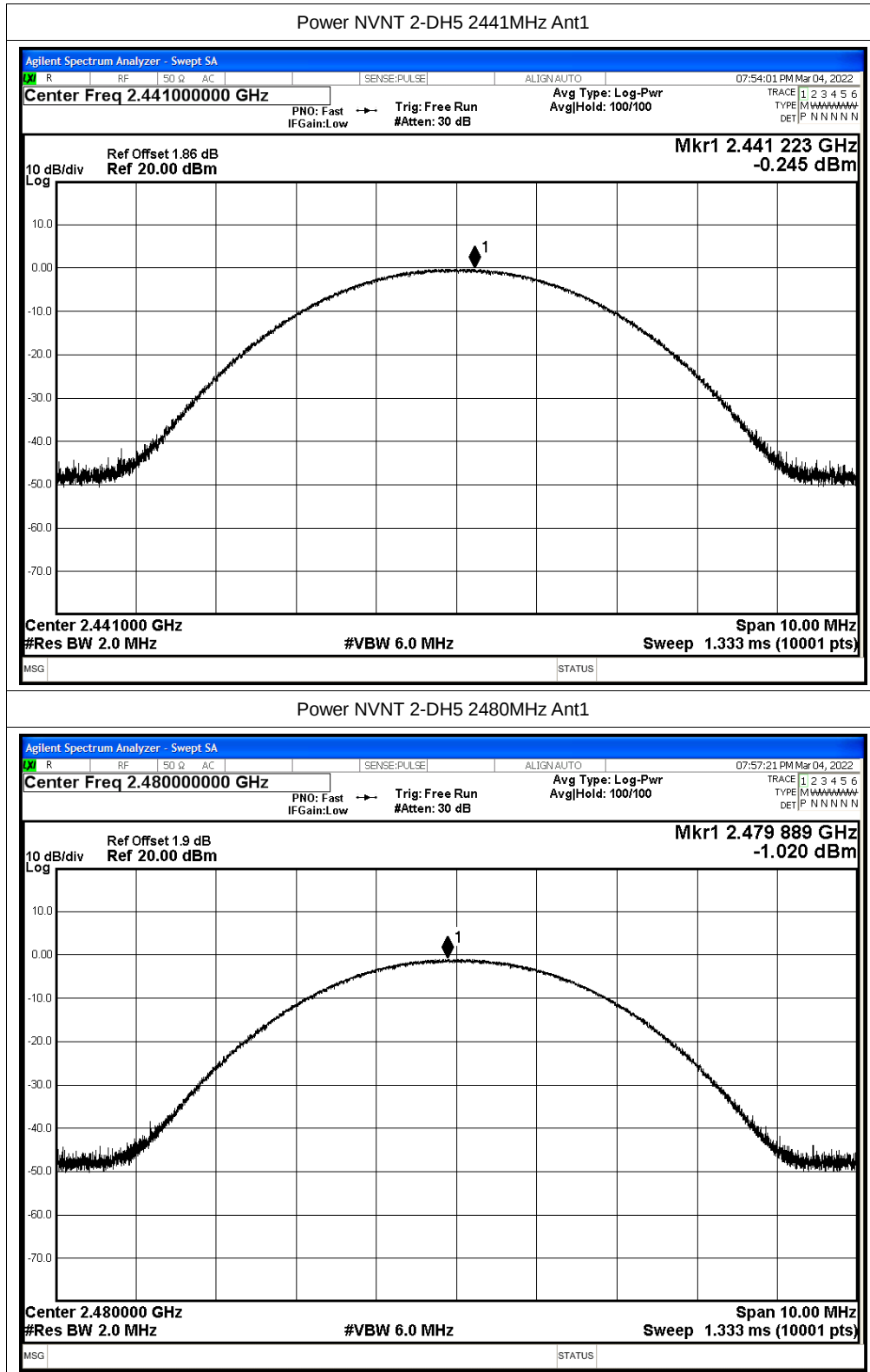
Power NVNT 1-DH5 2402MHz Ant1

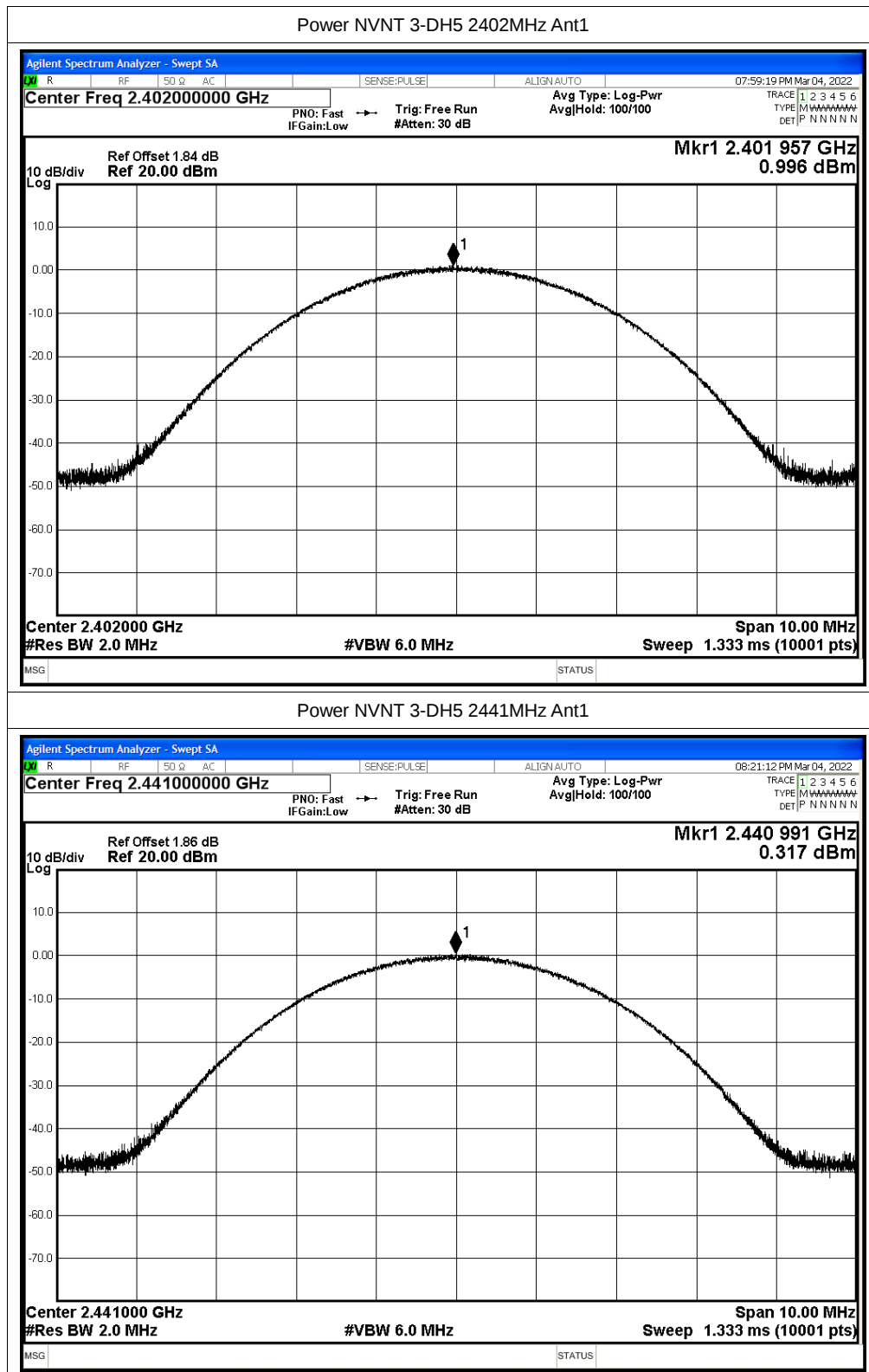


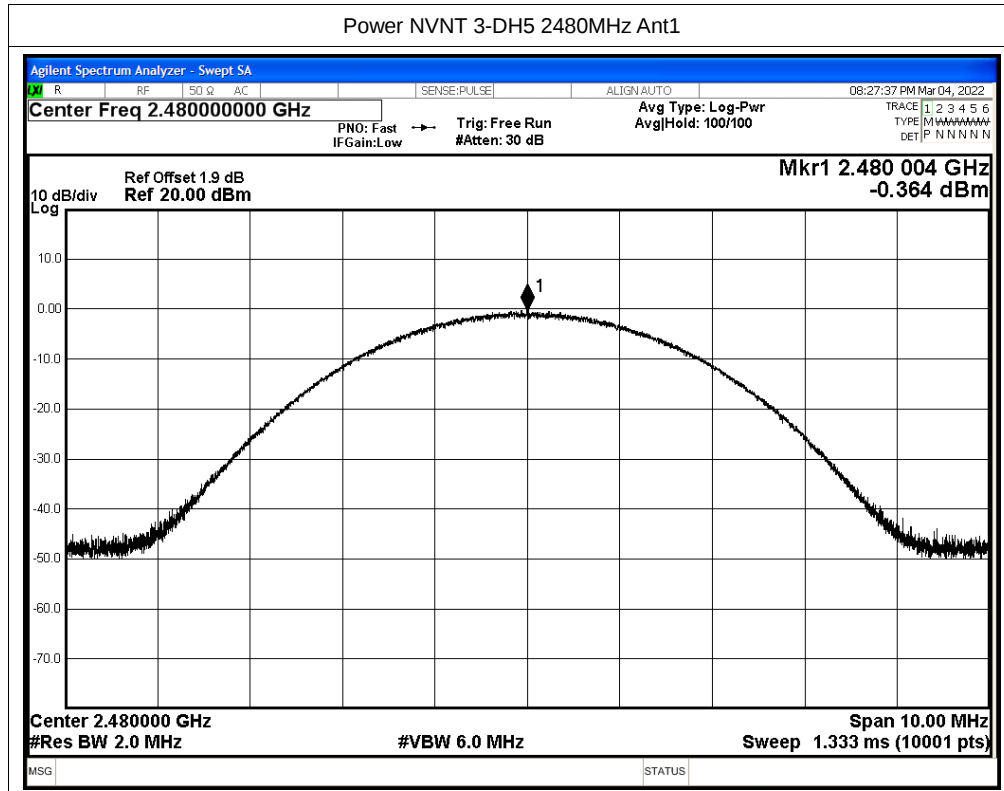
Power NVNT 1-DH5 2441MHz Ant1













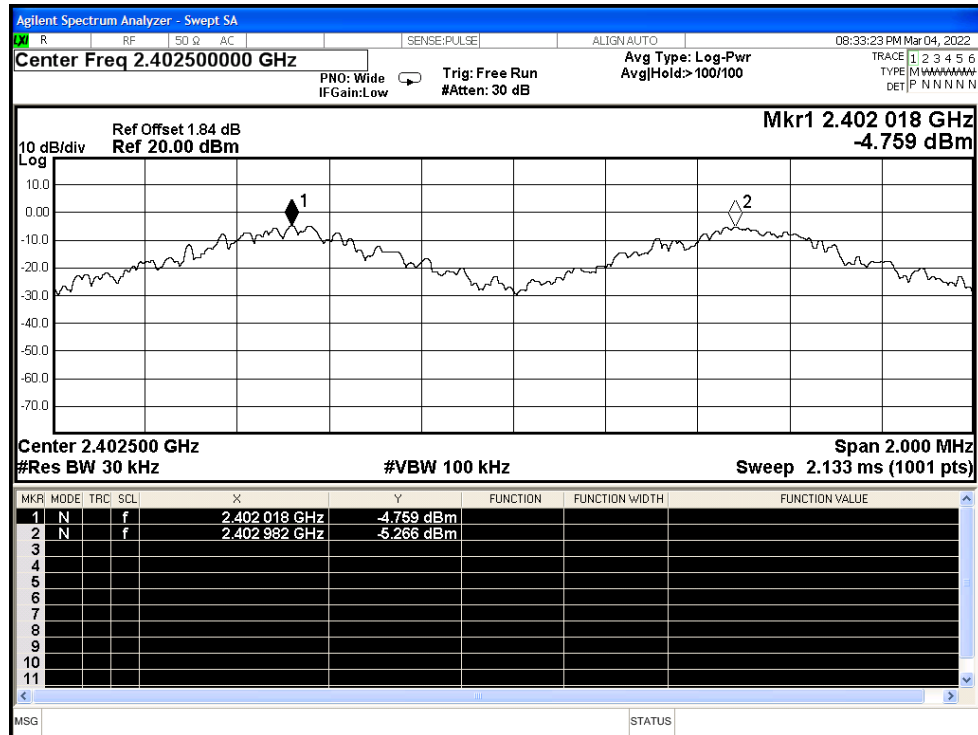
A.3 Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.018	2402.982	0.964	0.627	Pass
NVNT	1-DH5	Ant1	2440.974	2441.972	0.998	0.629	Pass
NVNT	1-DH5	Ant1	2479.014	2480.062	1.048	0.626	Pass
NVNT	2-DH5	Ant1	2402.06	2403.122	1.062	0.889	Pass
NVNT	2-DH5	Ant1	2440.84	2442.028	1.188	0.885	Pass
NVNT	2-DH5	Ant1	2478.96	2479.962	1.002	0.883	Pass
NVNT	3-DH5	Ant1	2402.062	2403.018	0.956	0.871	Pass
NVNT	3-DH5	Ant1	2440.826	2441.944	1.118	0.897	Pass
NVNT	3-DH5	Ant1	2479.064	2479.944	0.88	0.873	Pass

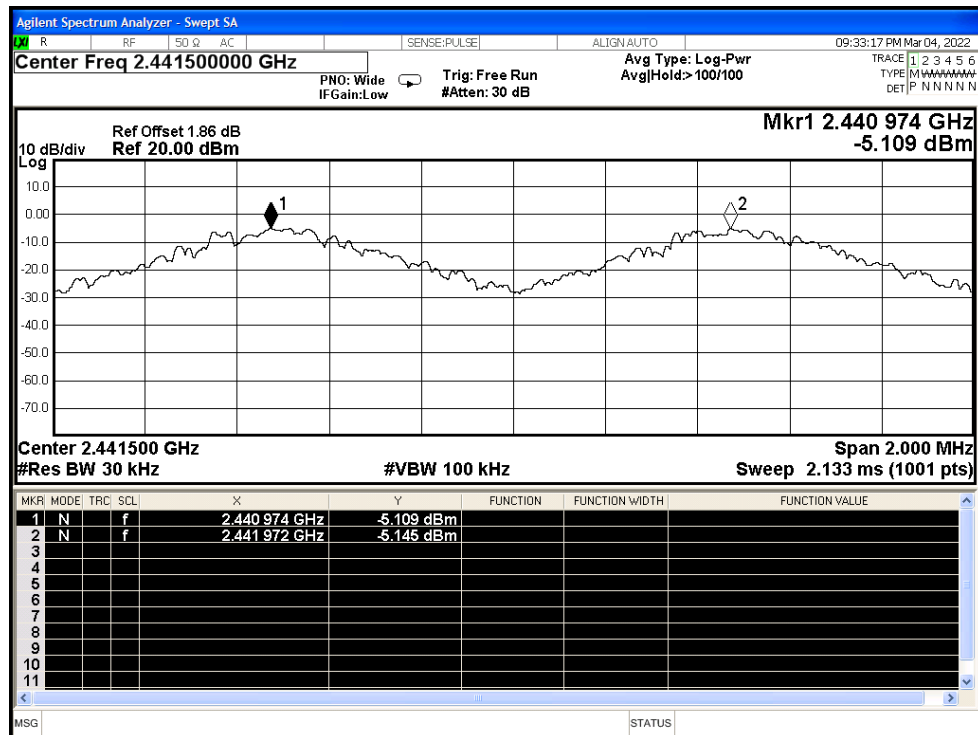


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

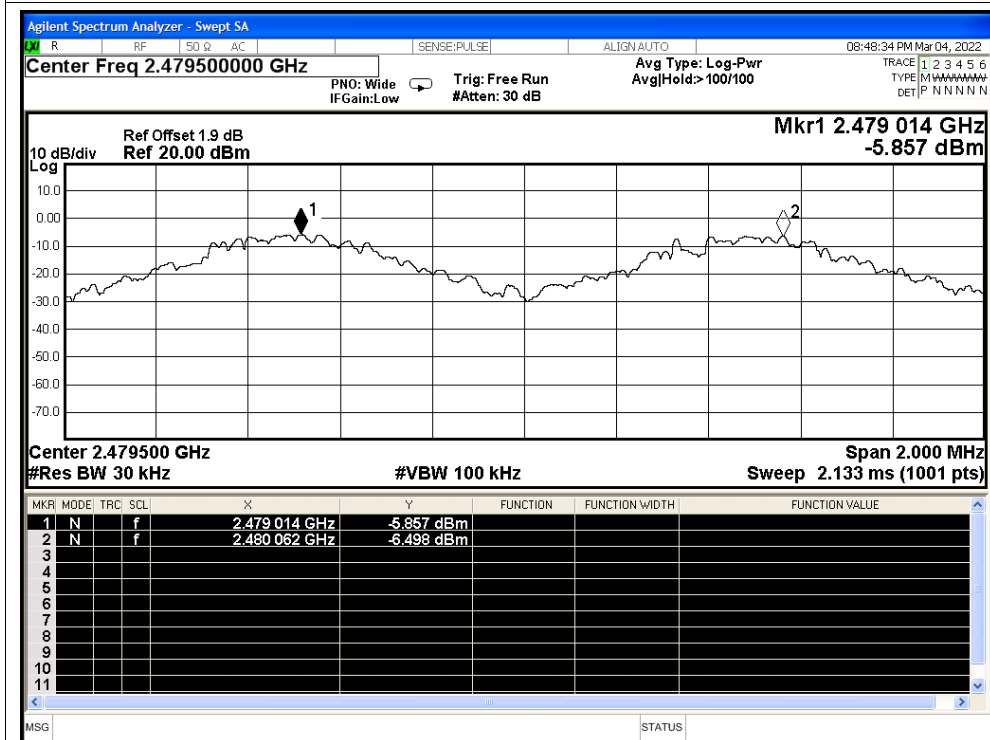


CFS NVNT 1-DH5 2441MHz Ant1

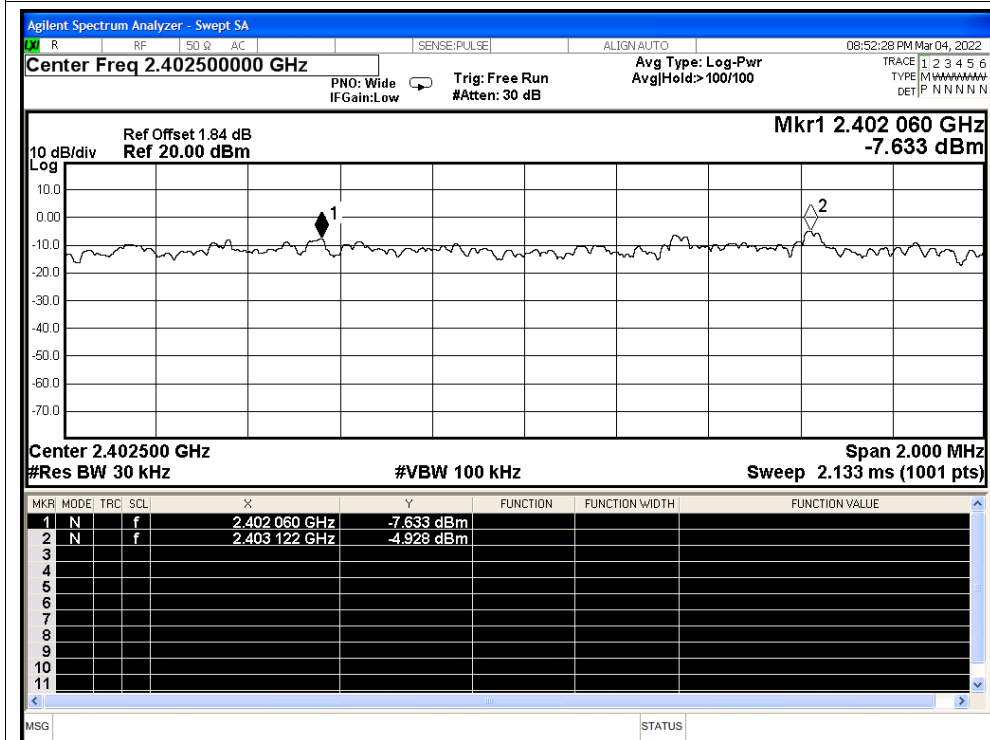




CFS NVNT 1-DH5 2480MHz Ant1

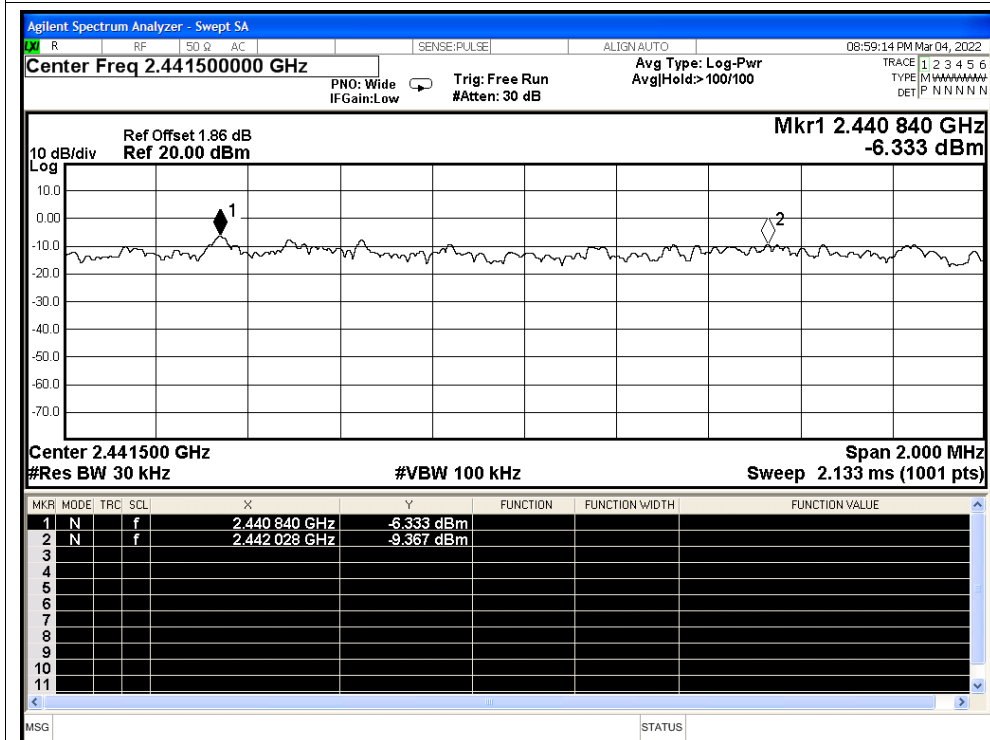


CFS NVNT 2-DH5 2402MHz Ant1

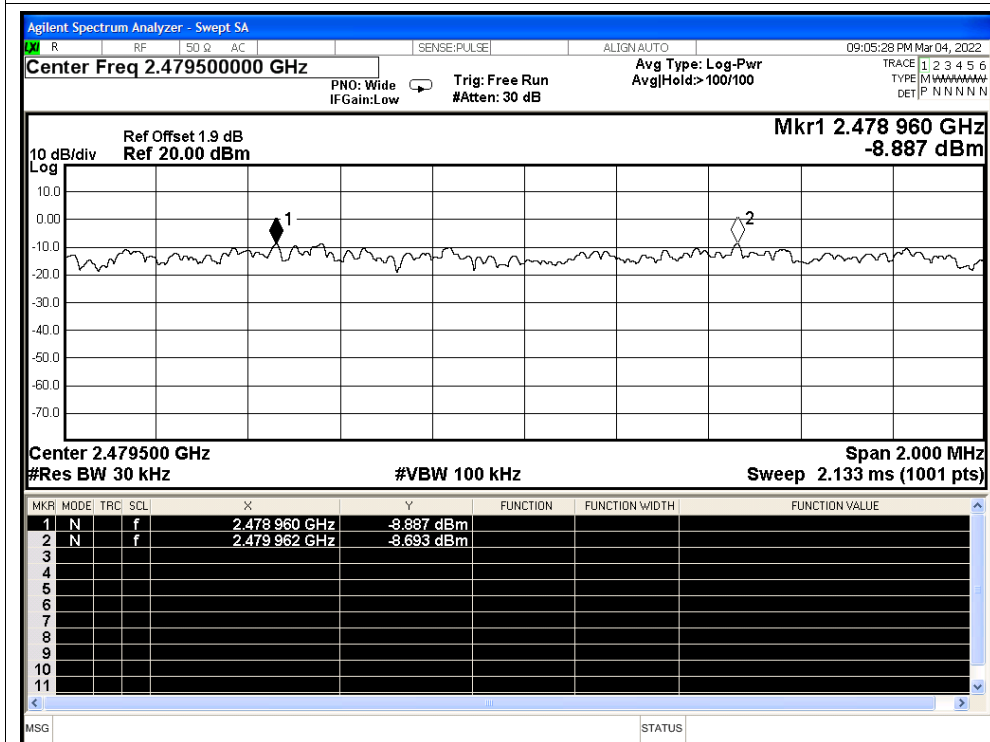


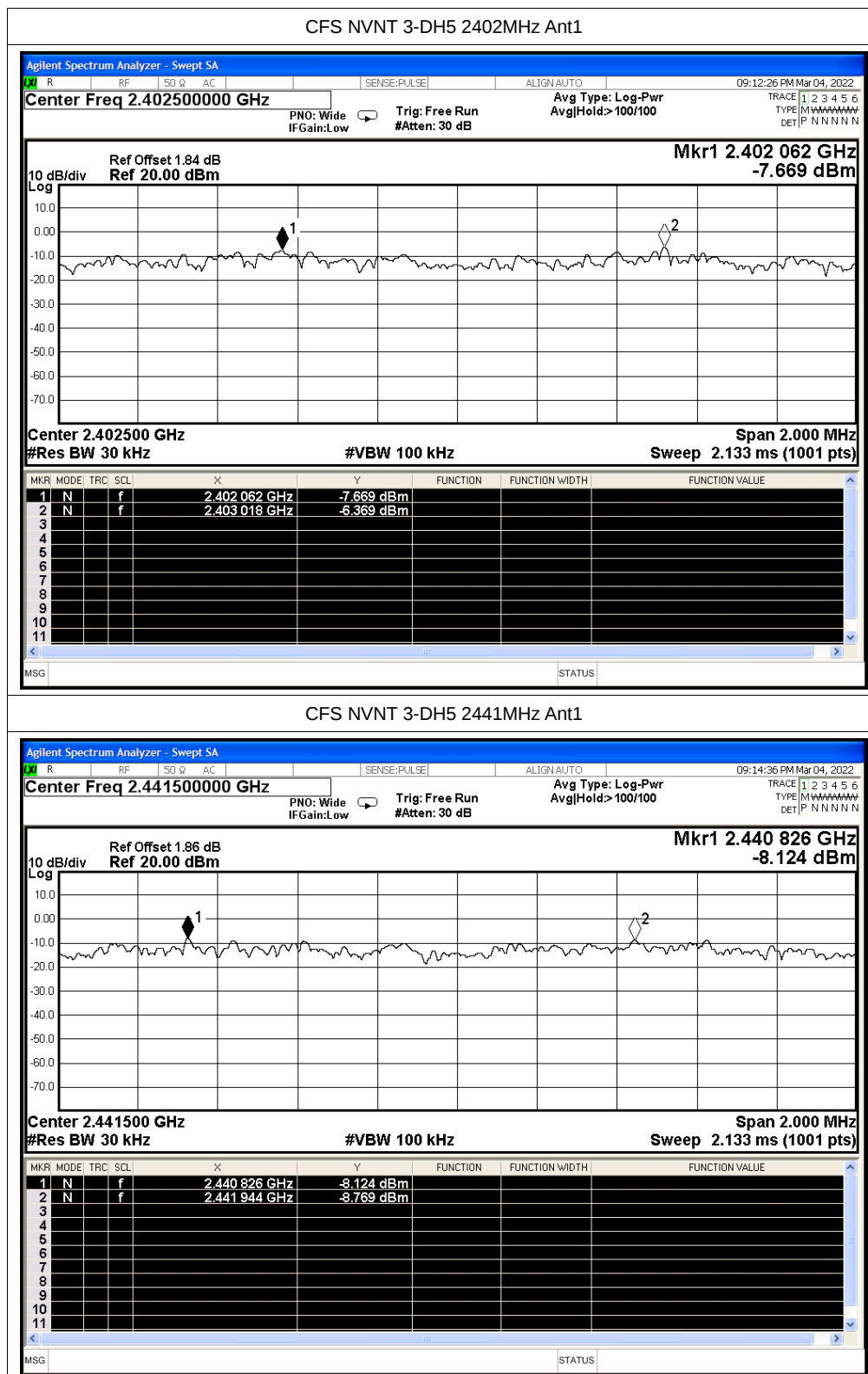


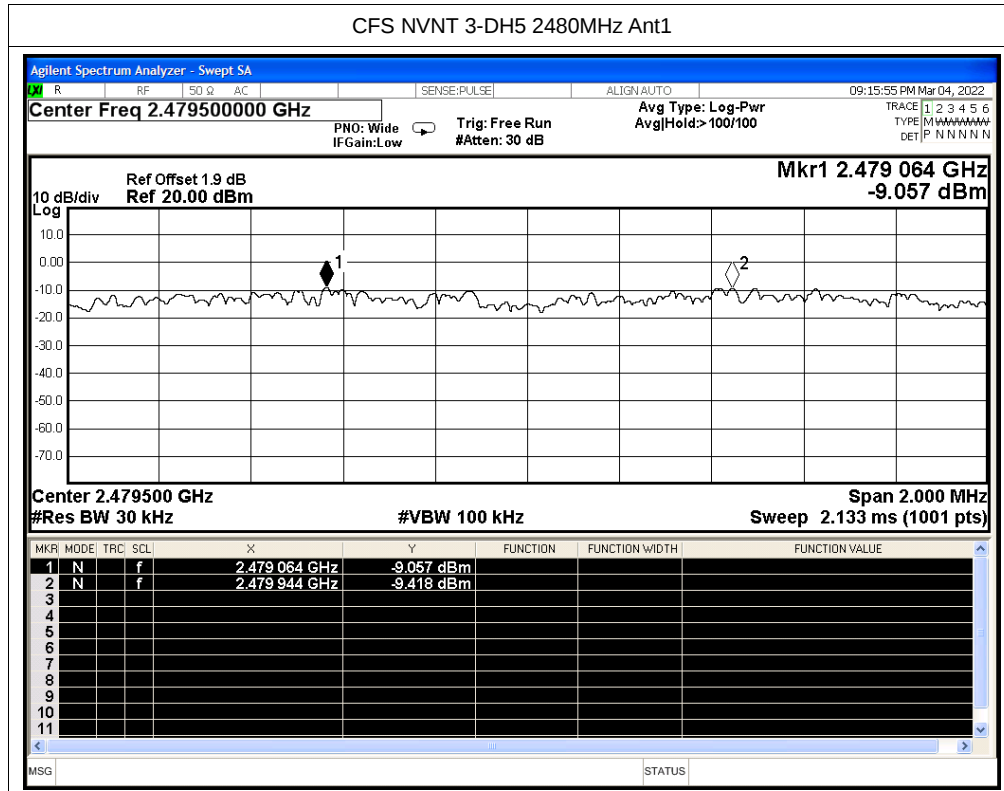
CFS NVNT 2-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2480MHz Ant1









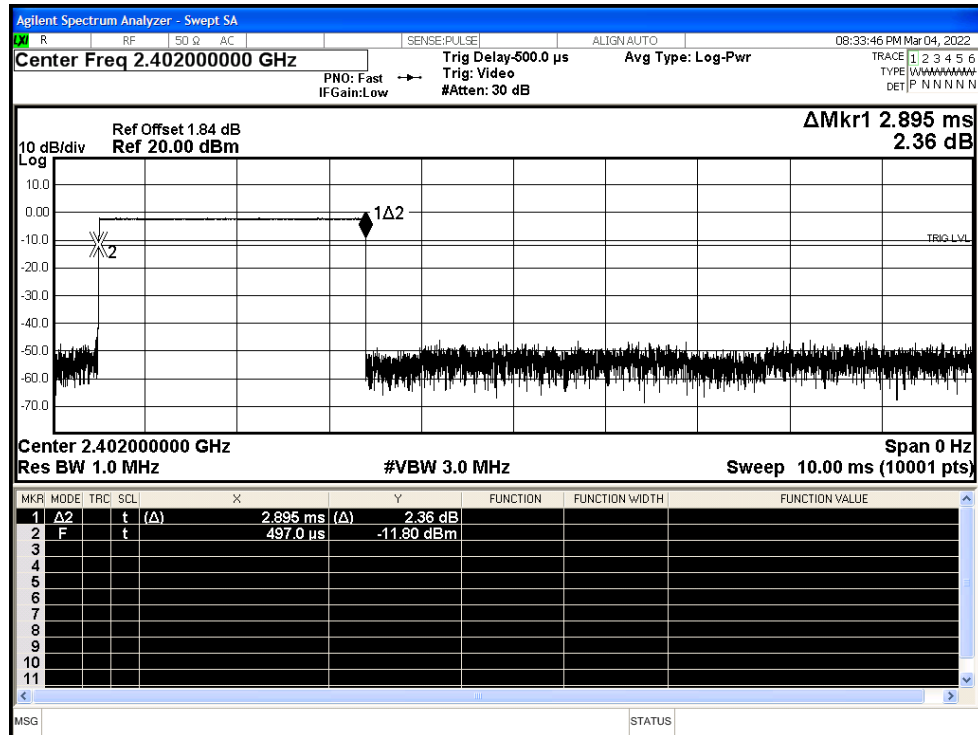
A.4 Dwell Time

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	2.895	318.45	110	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.895	306.87	106	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.895	330.03	114	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.896	301.184	104	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.895	312.66	108	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.899	298.597	103	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.901	307.506	106	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.897	324.464	112	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.901	324.912	112	31600	400	Pass

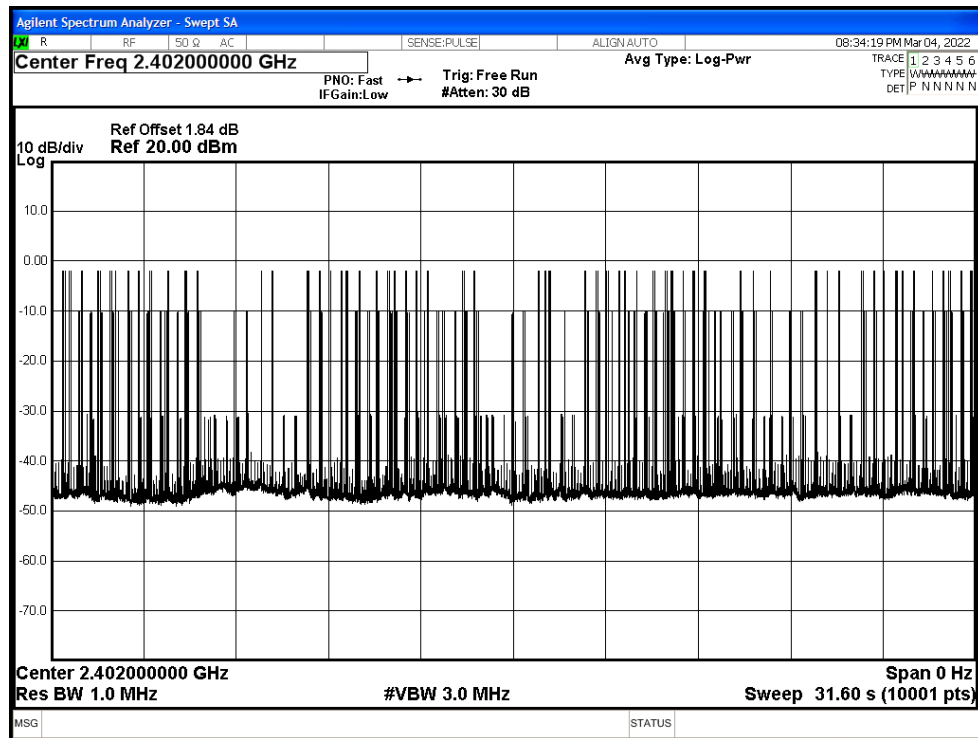


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

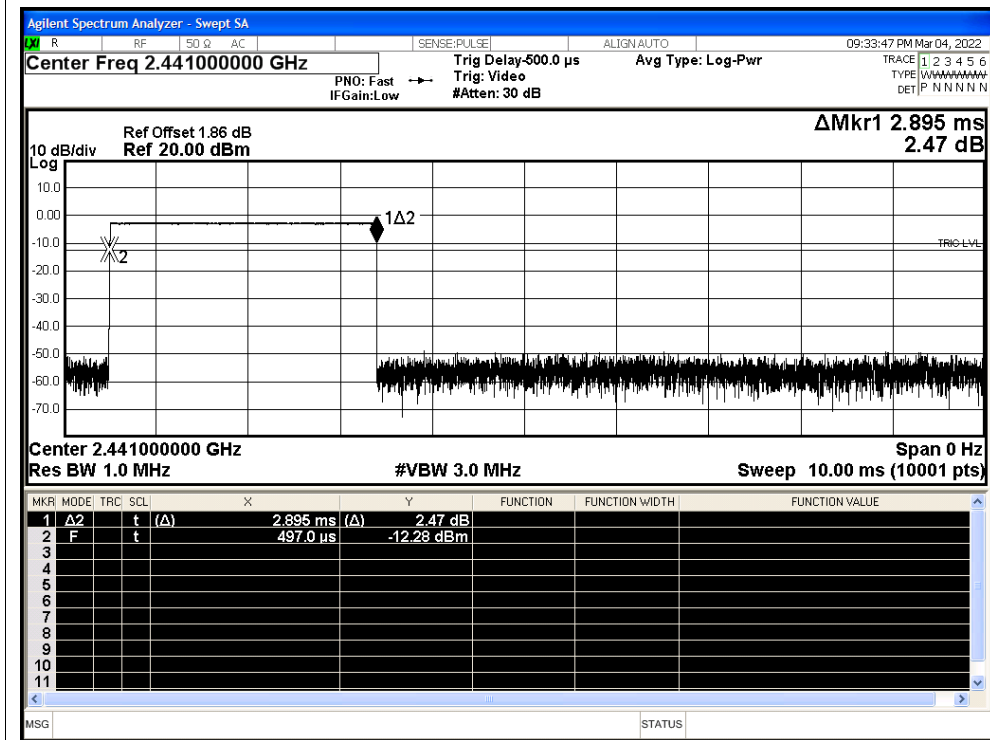


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

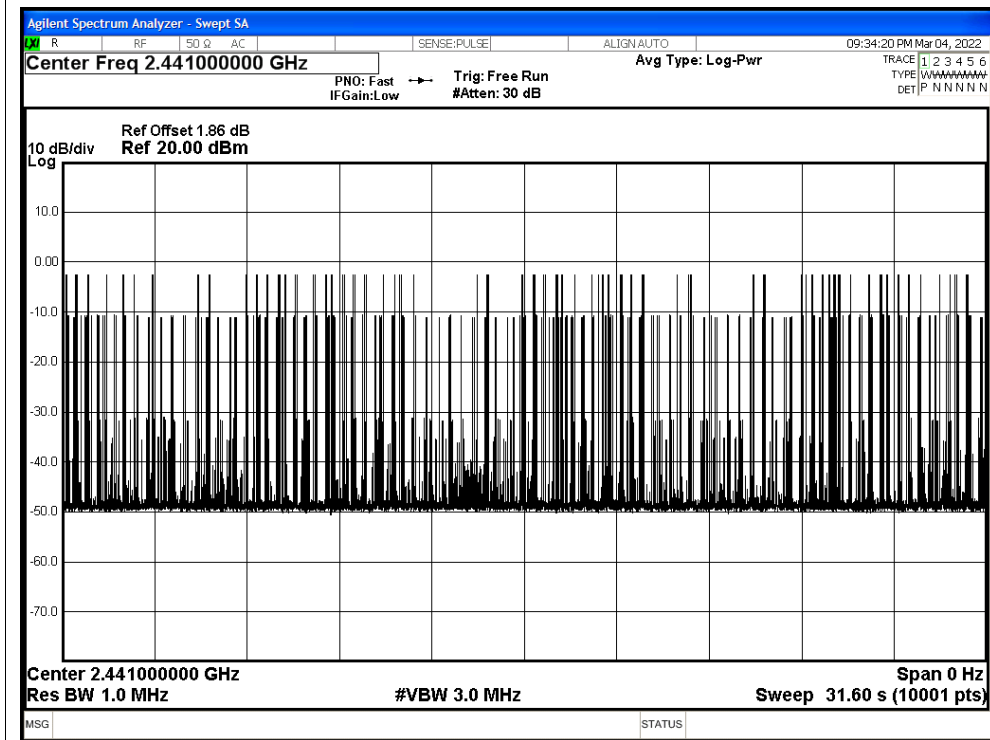




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

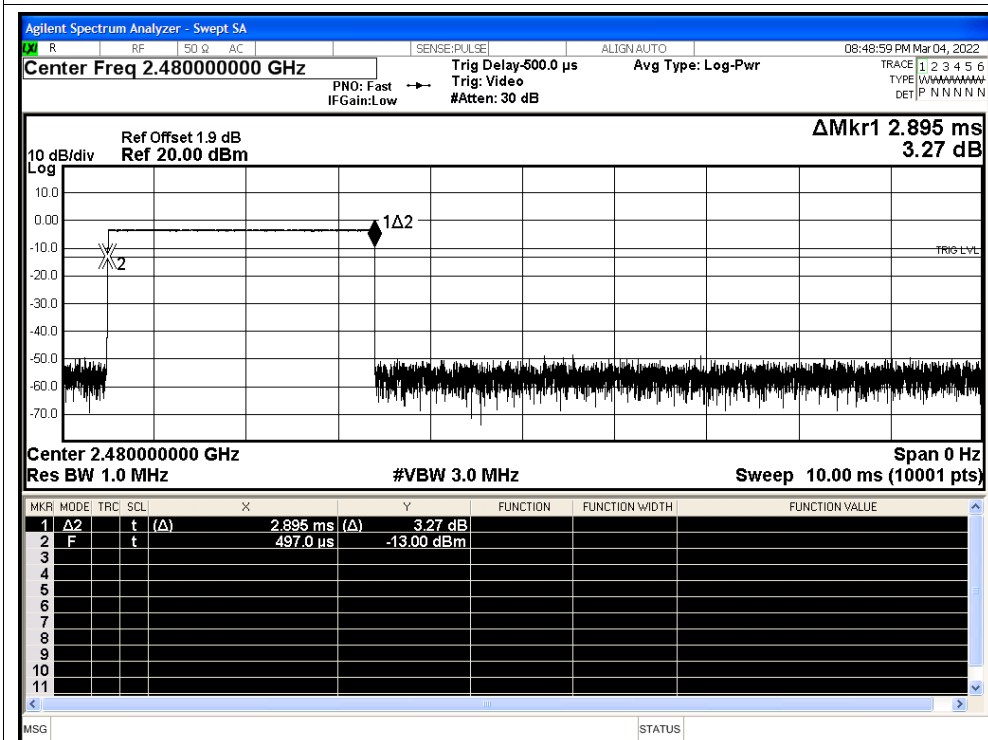


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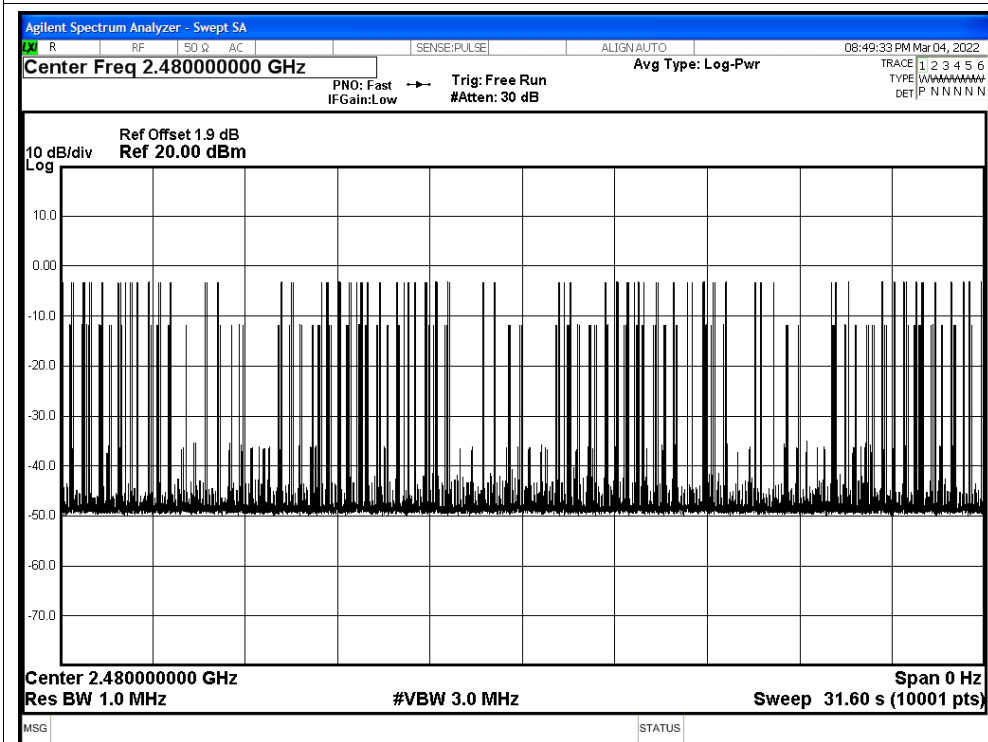




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

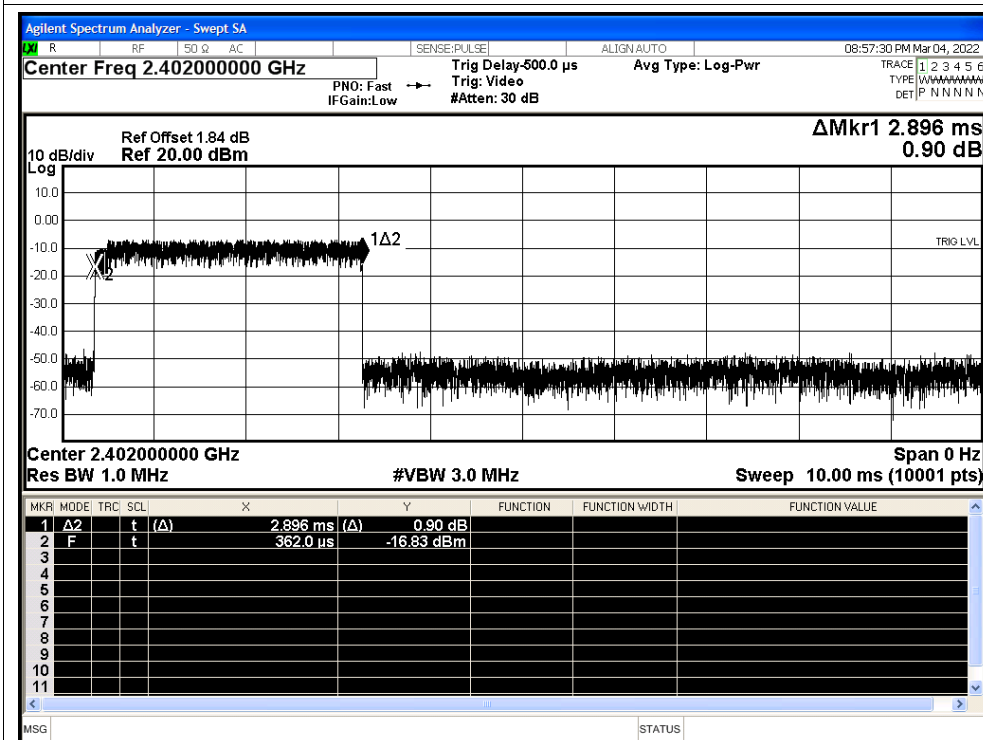


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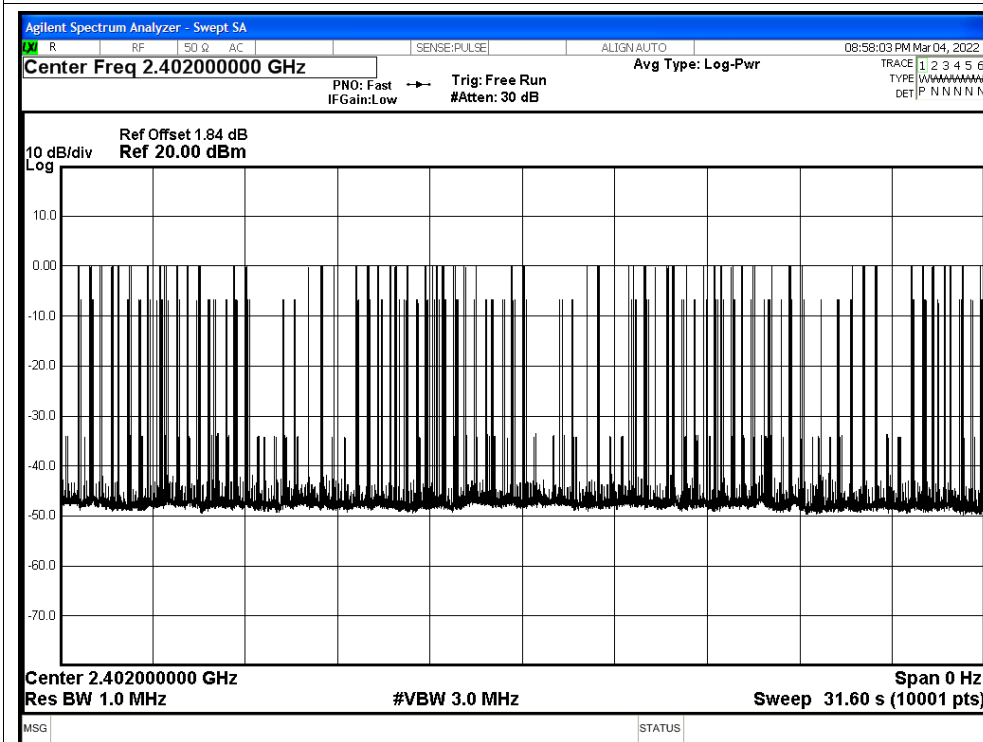




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

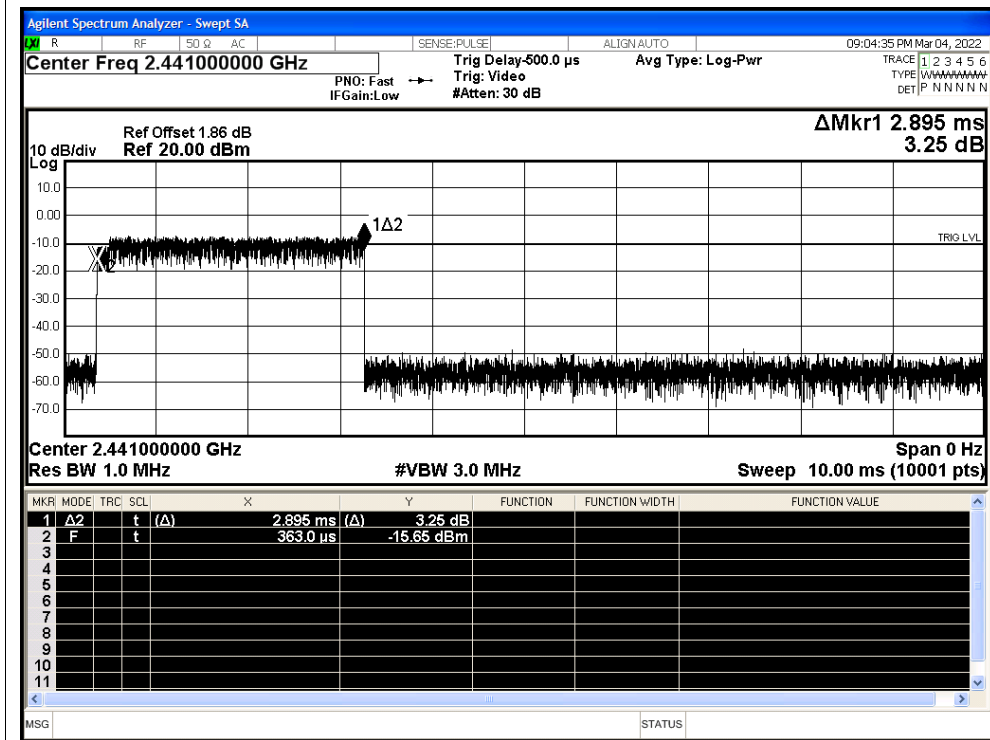


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

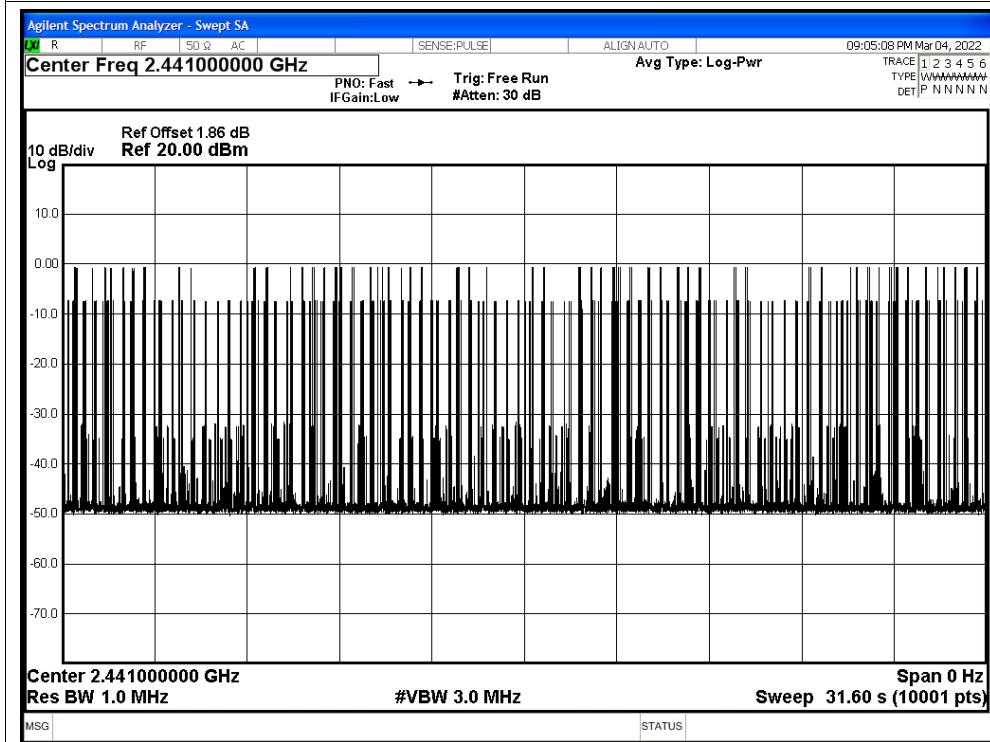




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

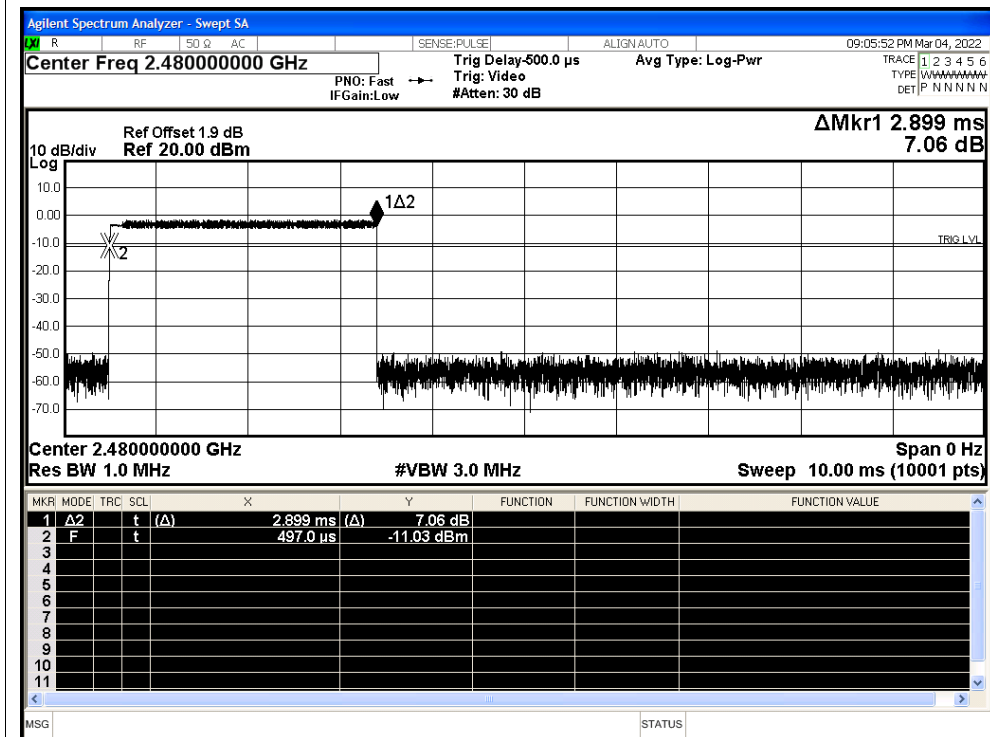


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

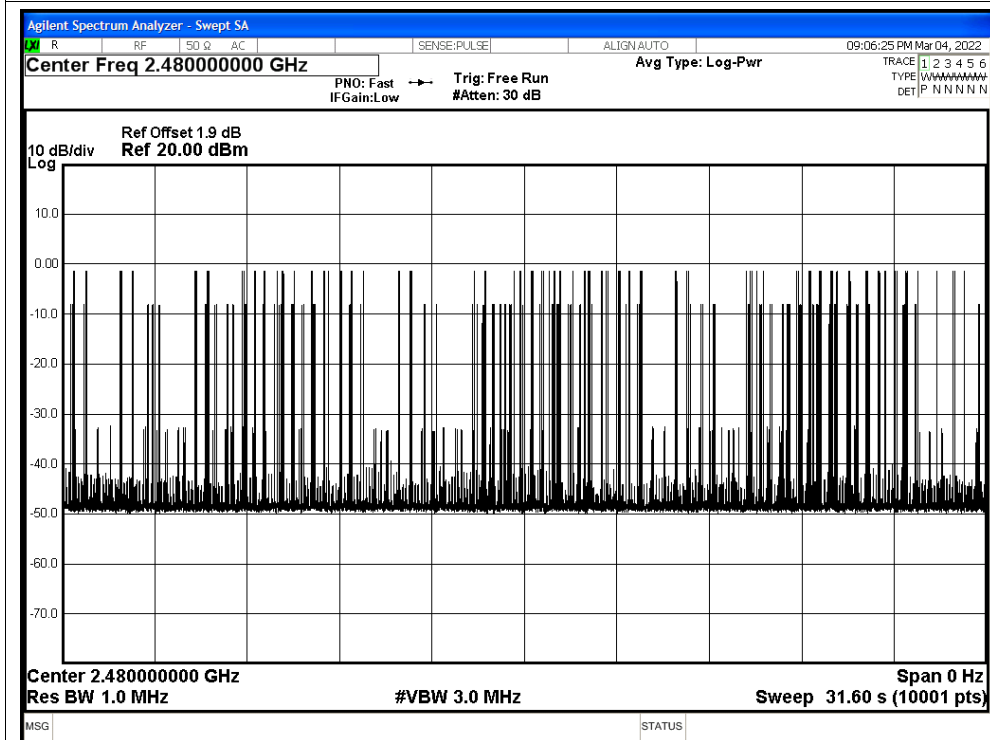




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

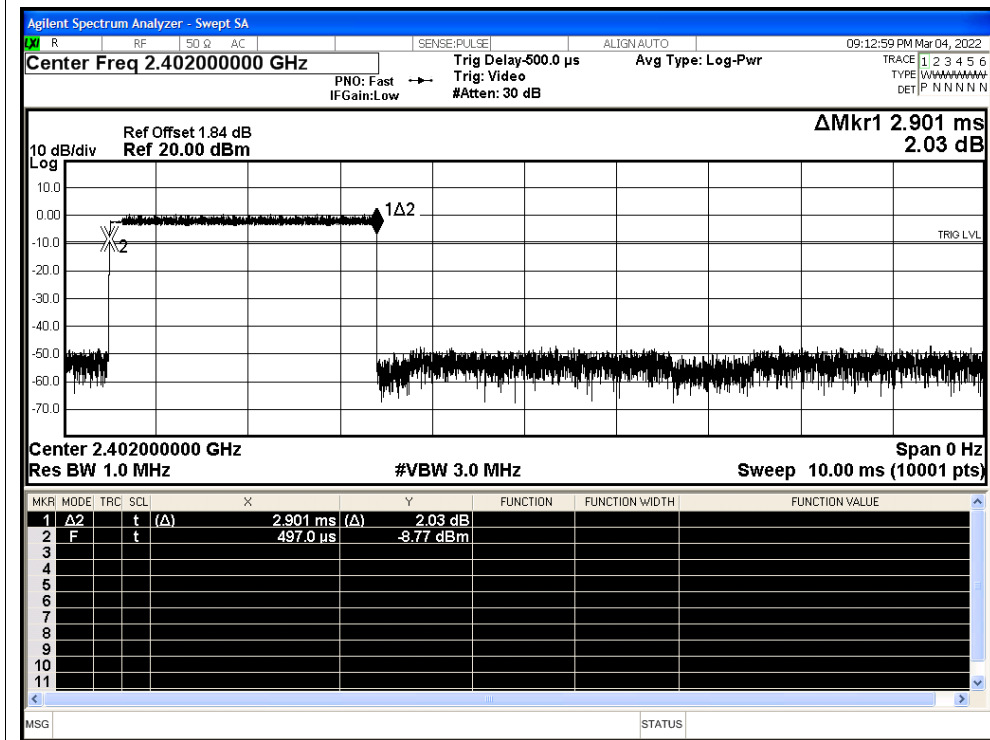


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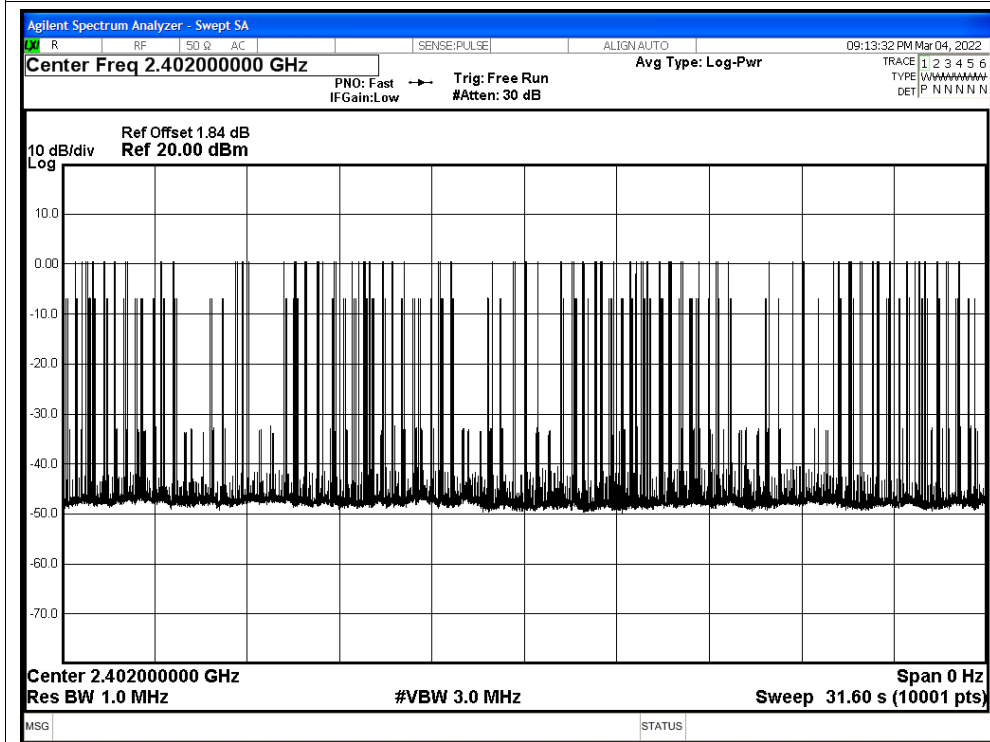




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

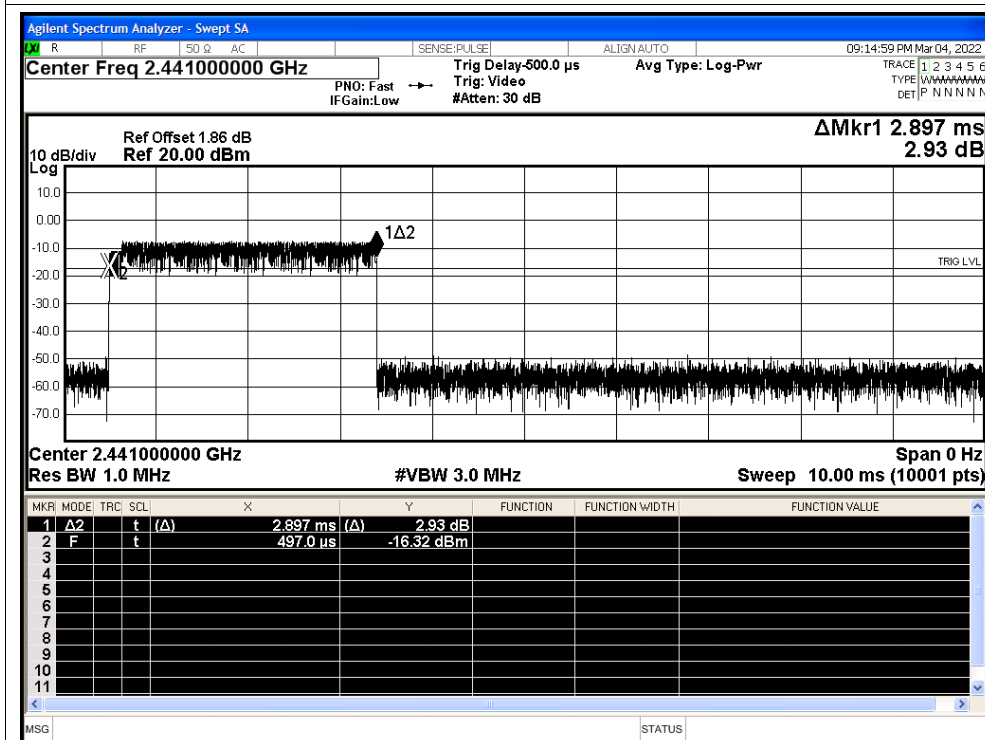


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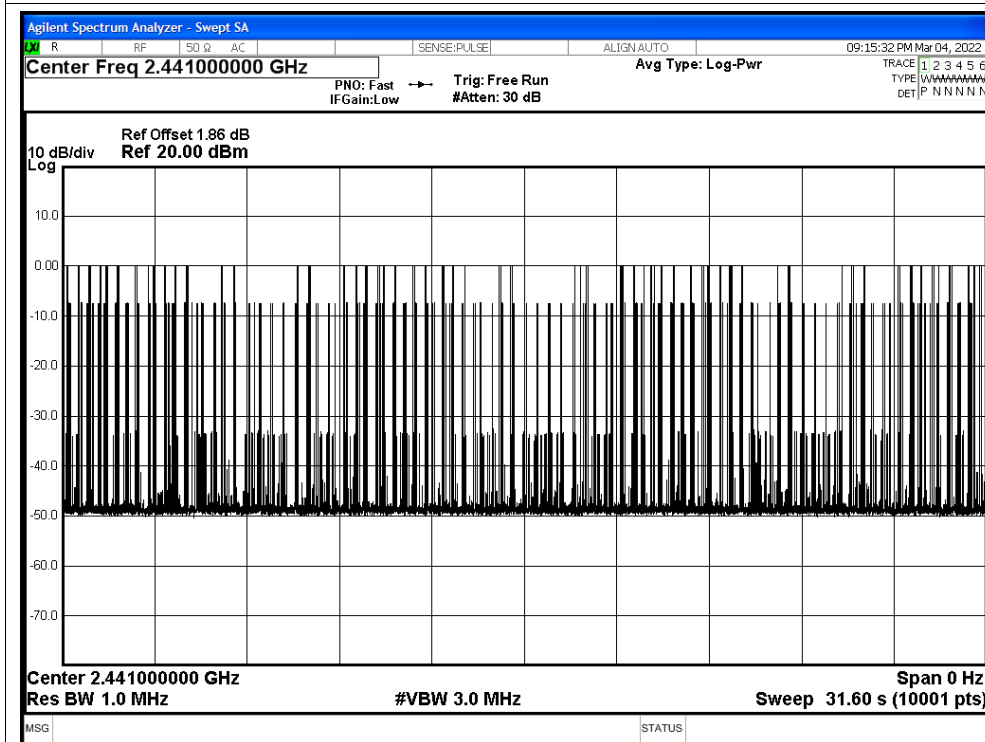


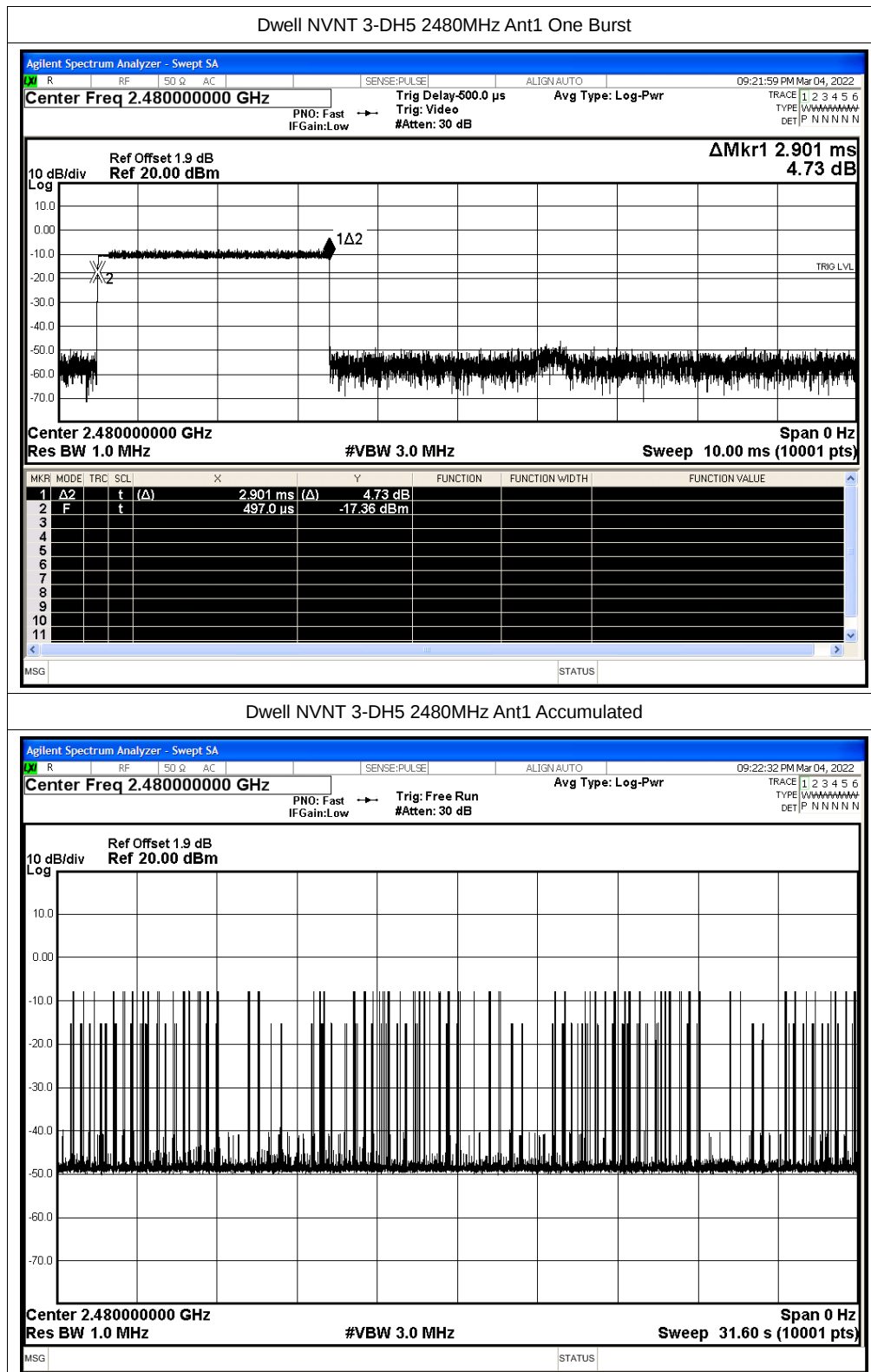


Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated







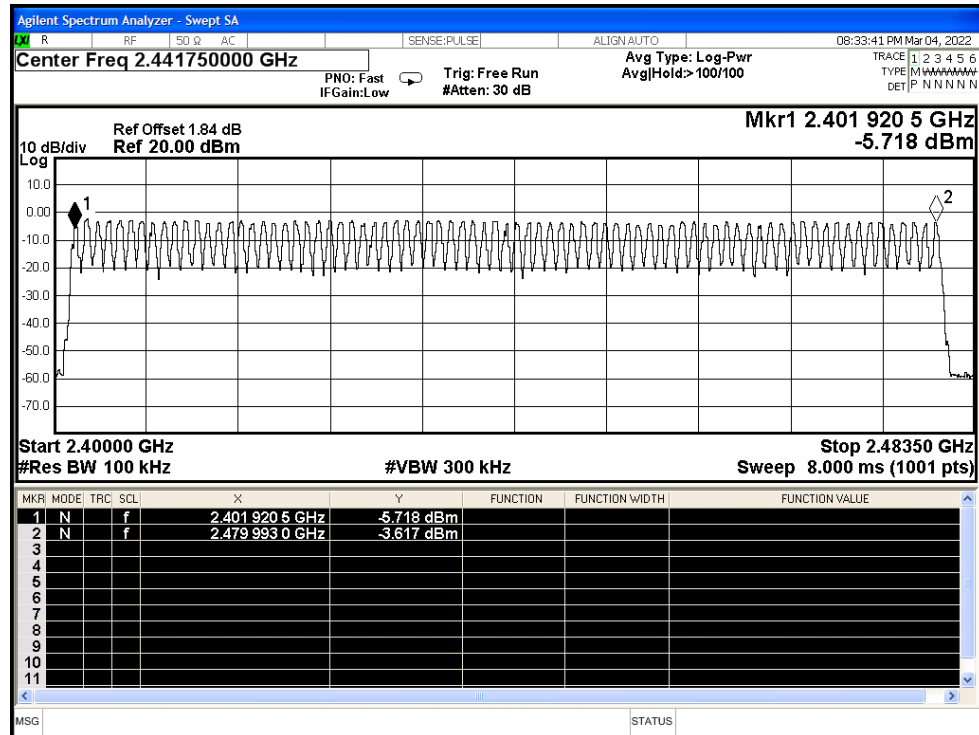
A.5 Number of Hopping Channel

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

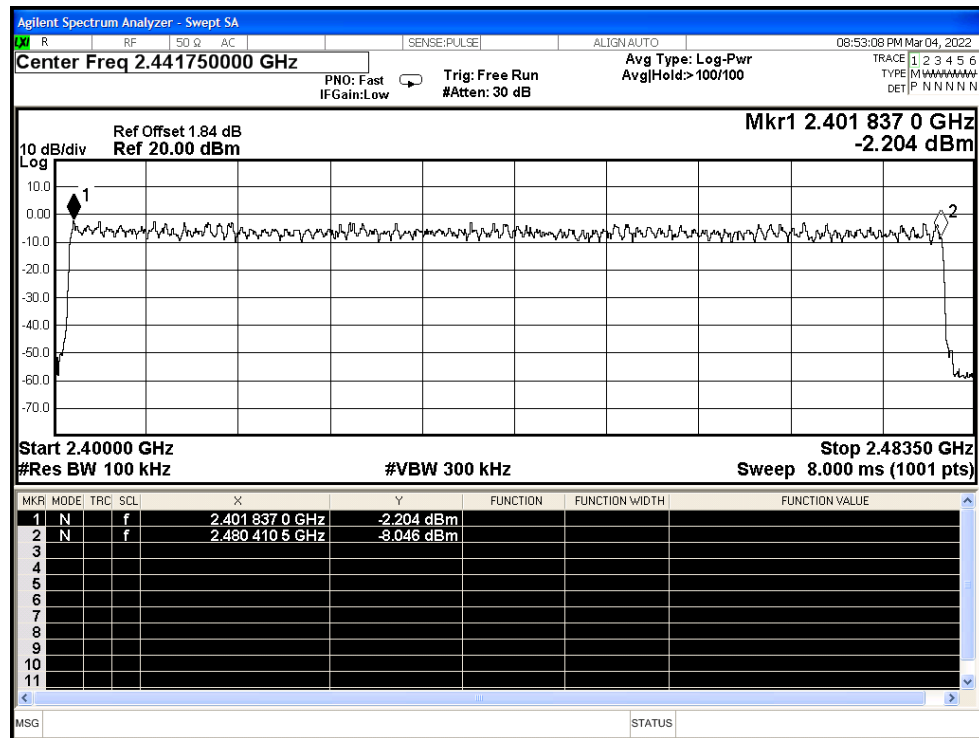


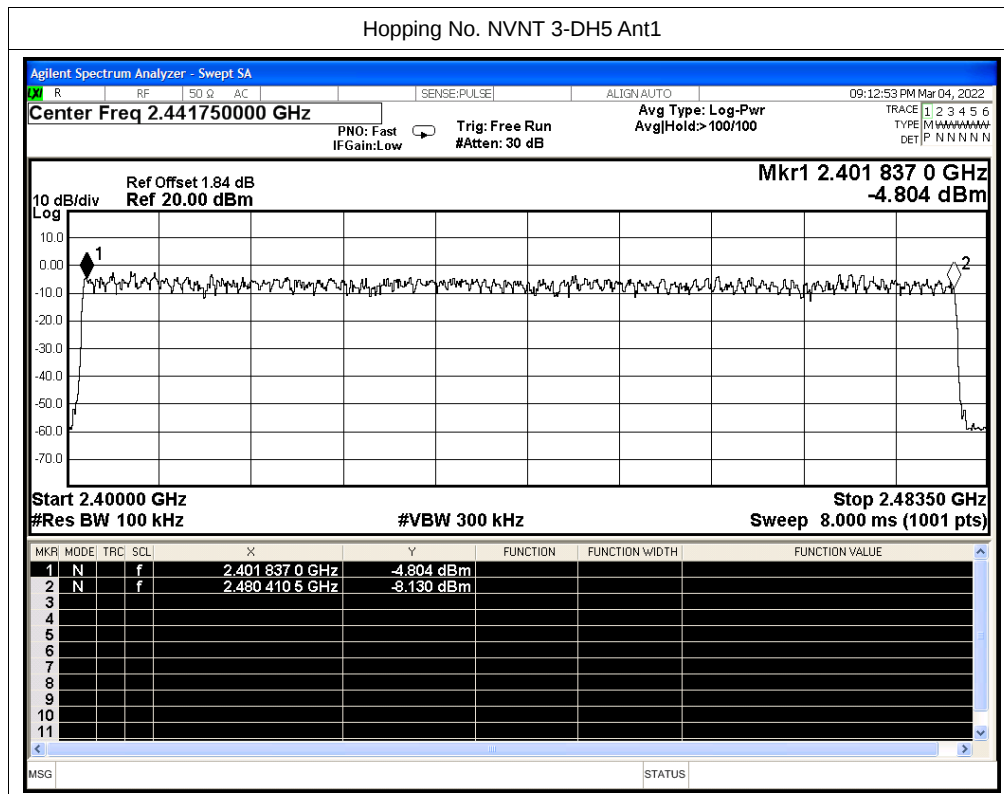
Test Graphs

Hopping No. NVNT 1-DH5 Ant1



Hopping No. NVNT 2-DH5 Ant1







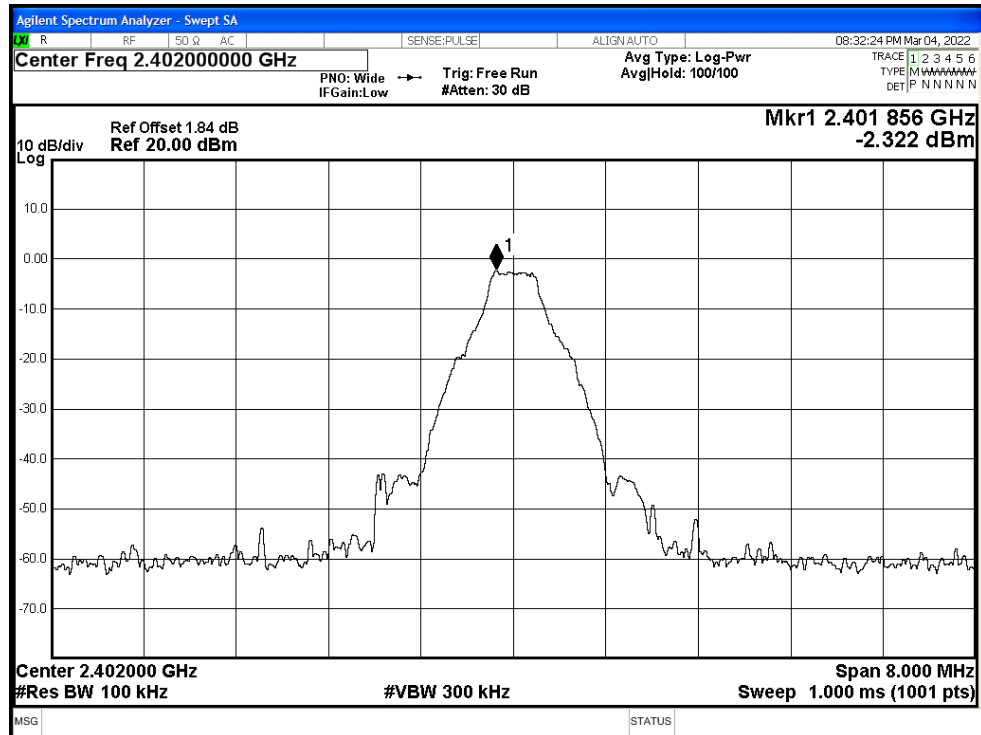
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.93	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-53.09	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.08	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.8	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.19	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.47	-20	Pass

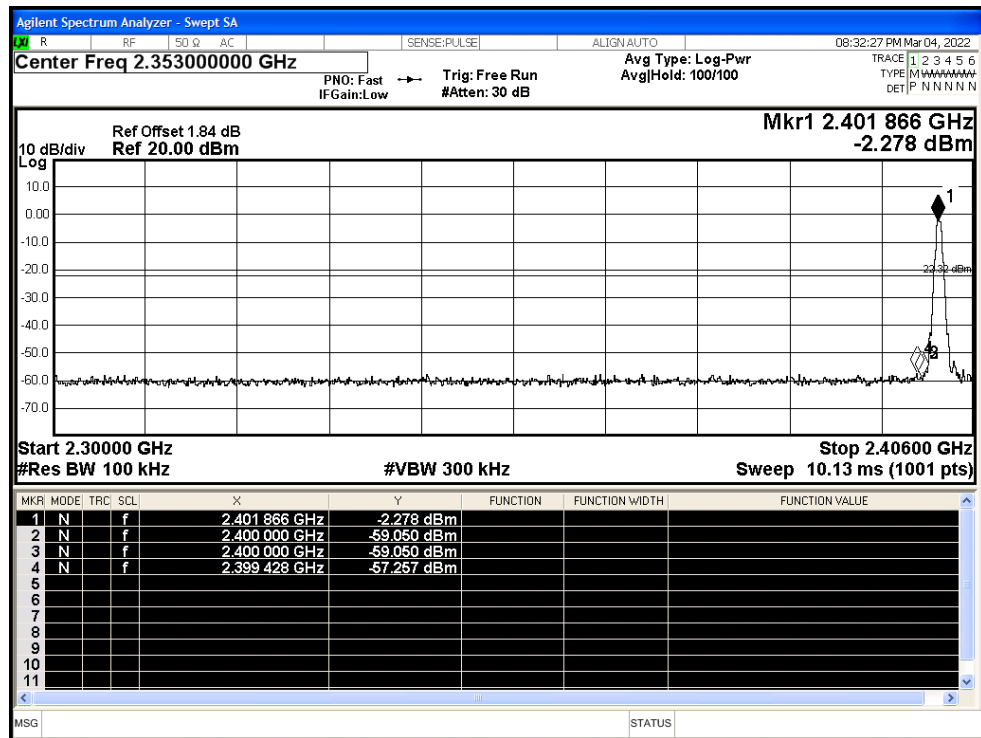


Test Graphs

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

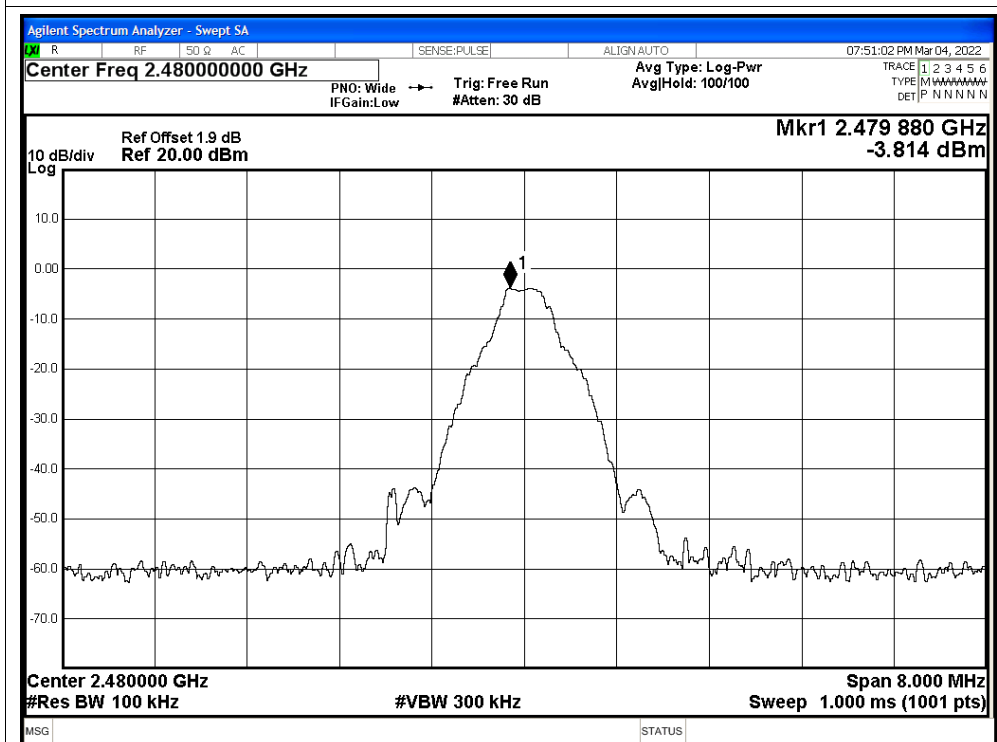


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

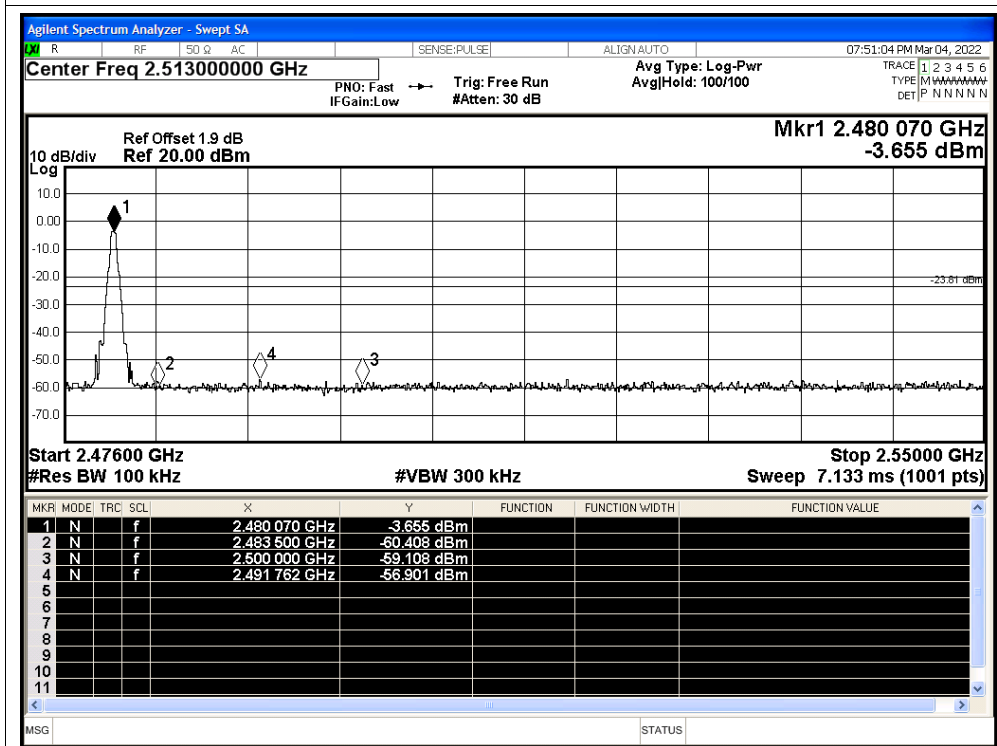




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

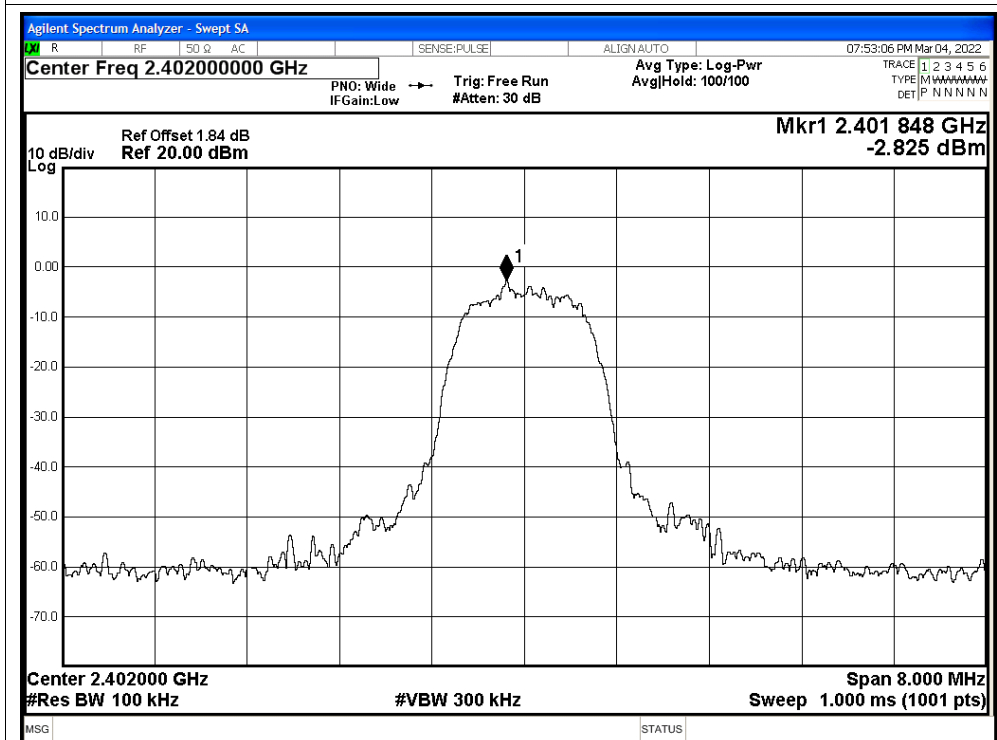


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

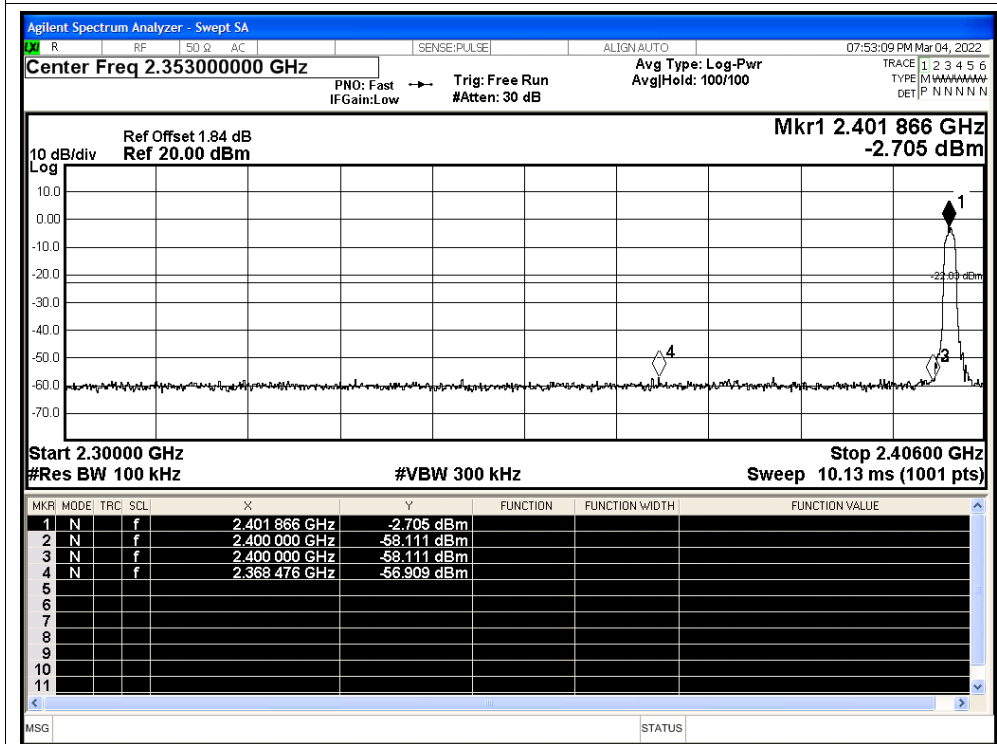




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

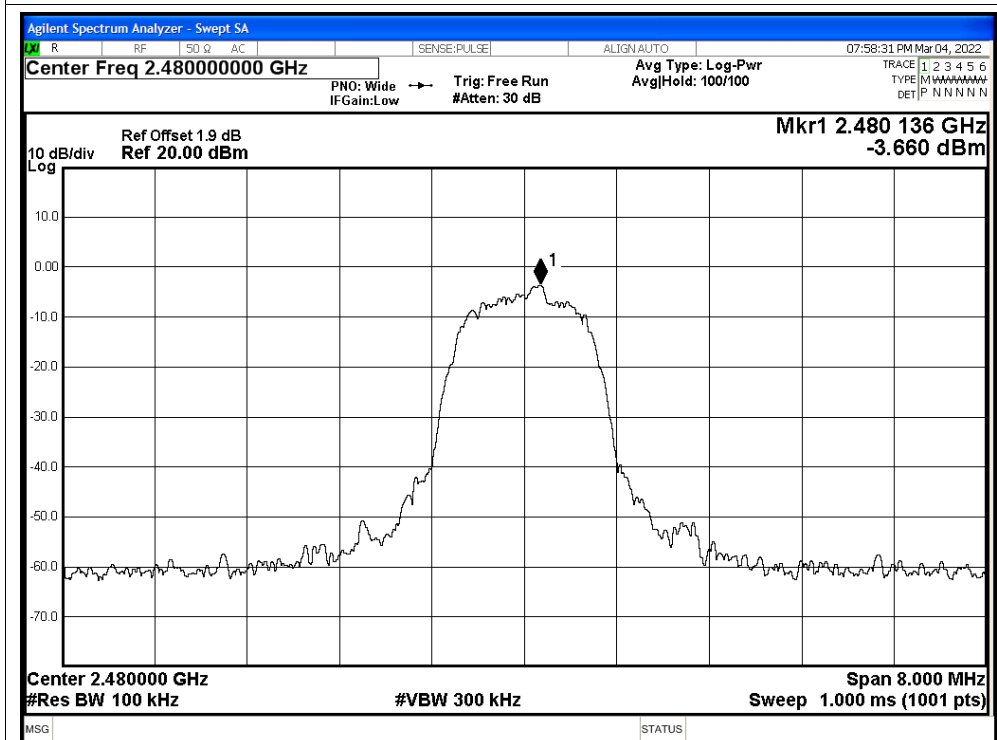


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

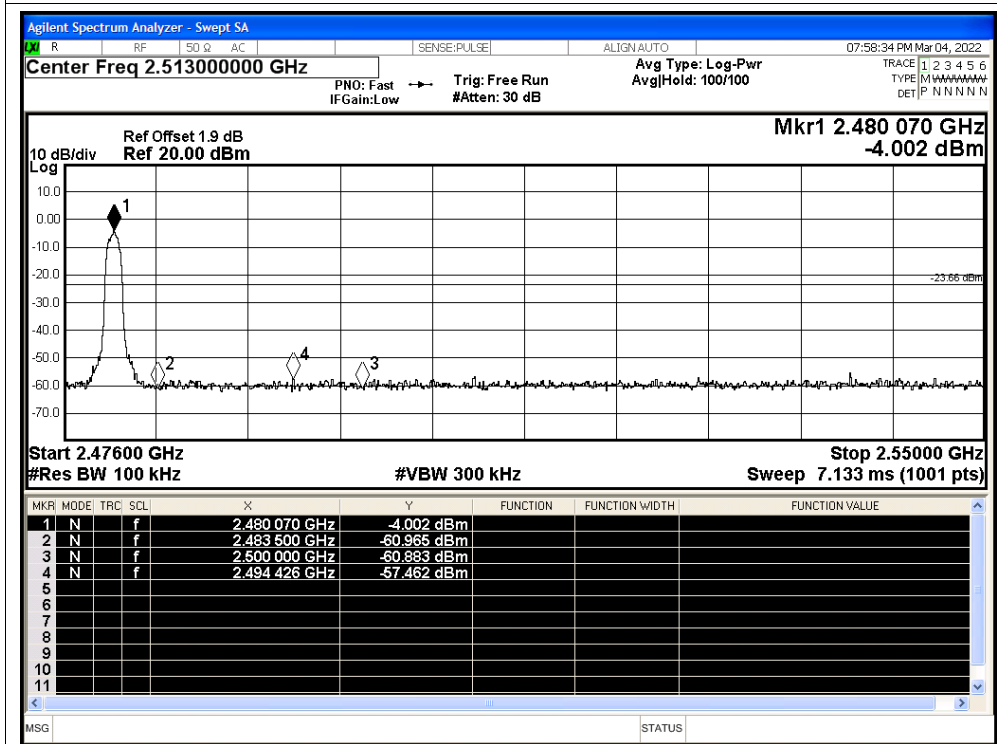




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

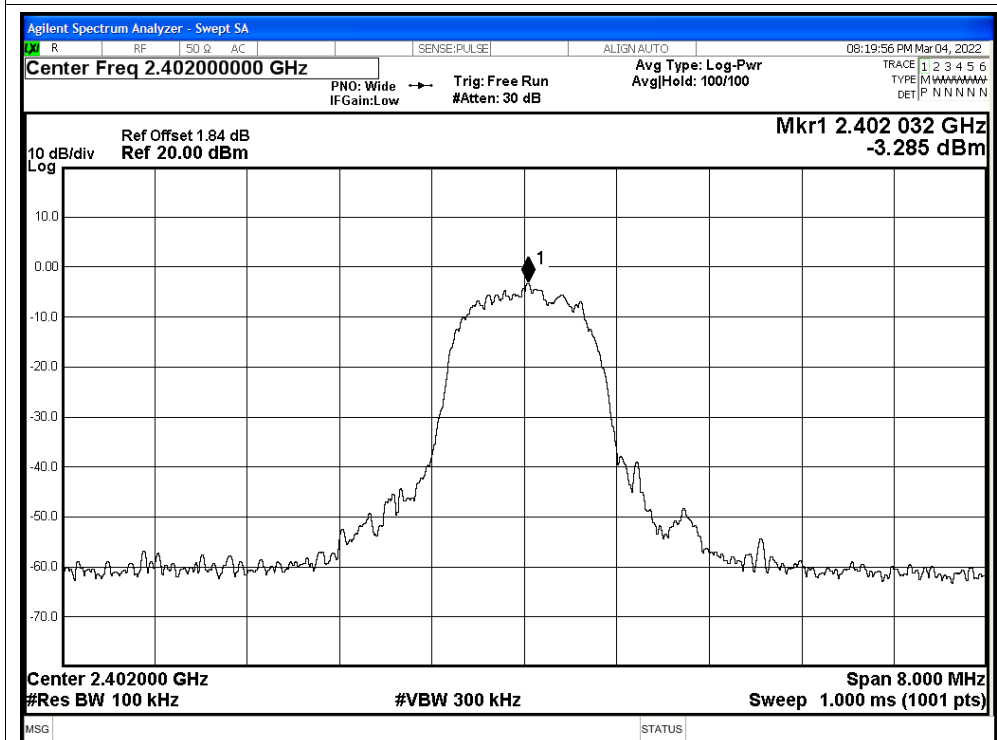


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

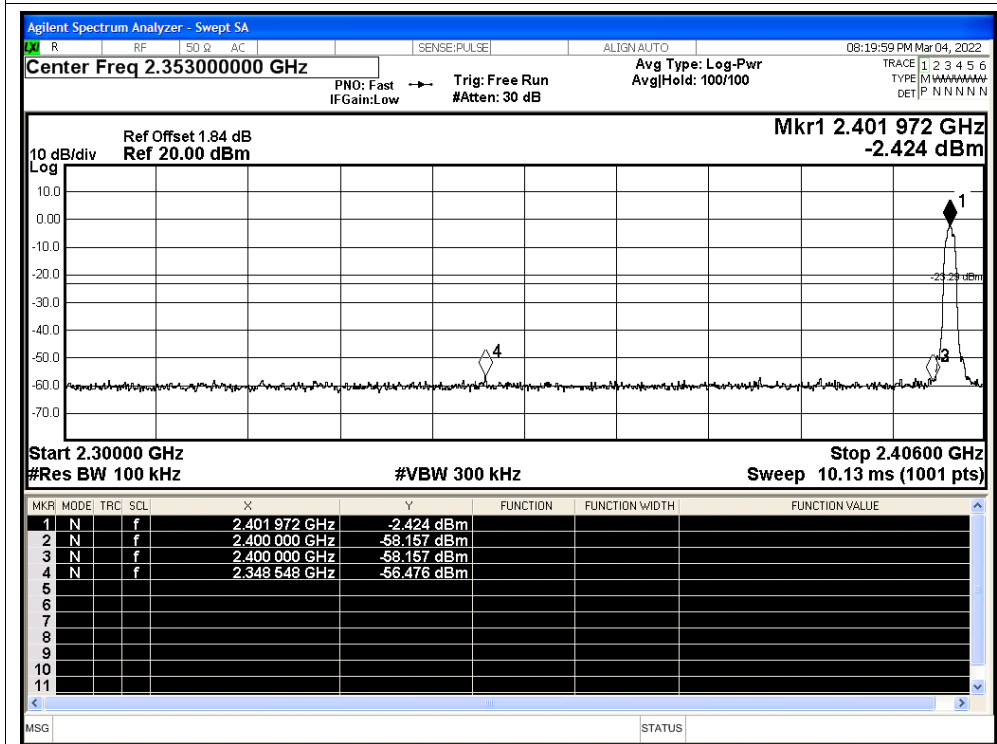




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

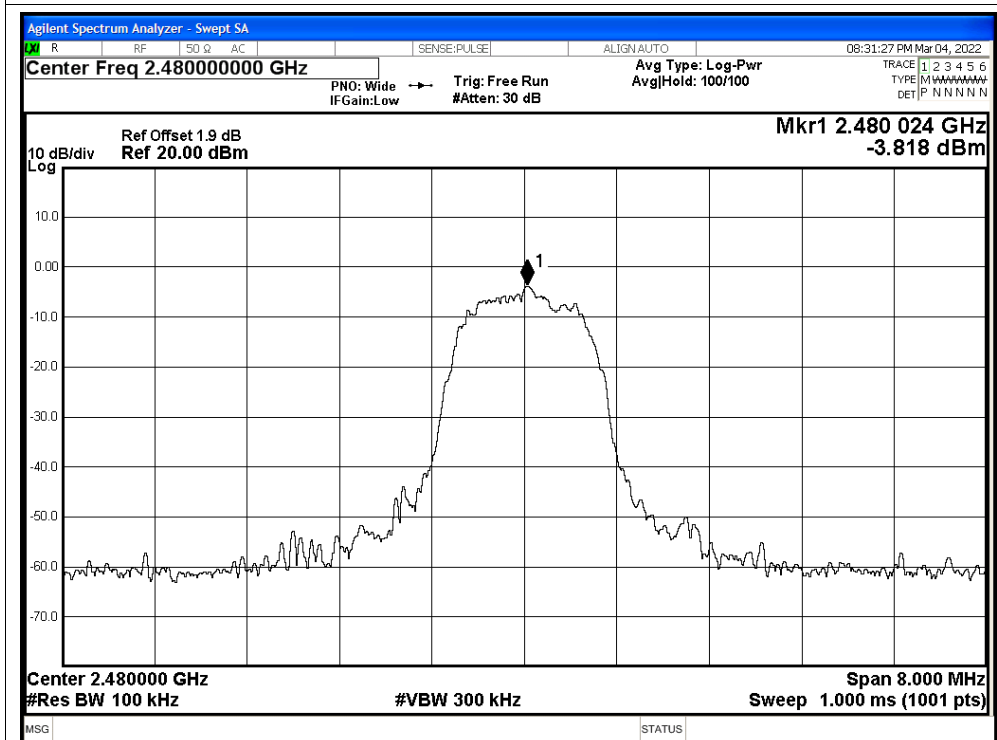


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

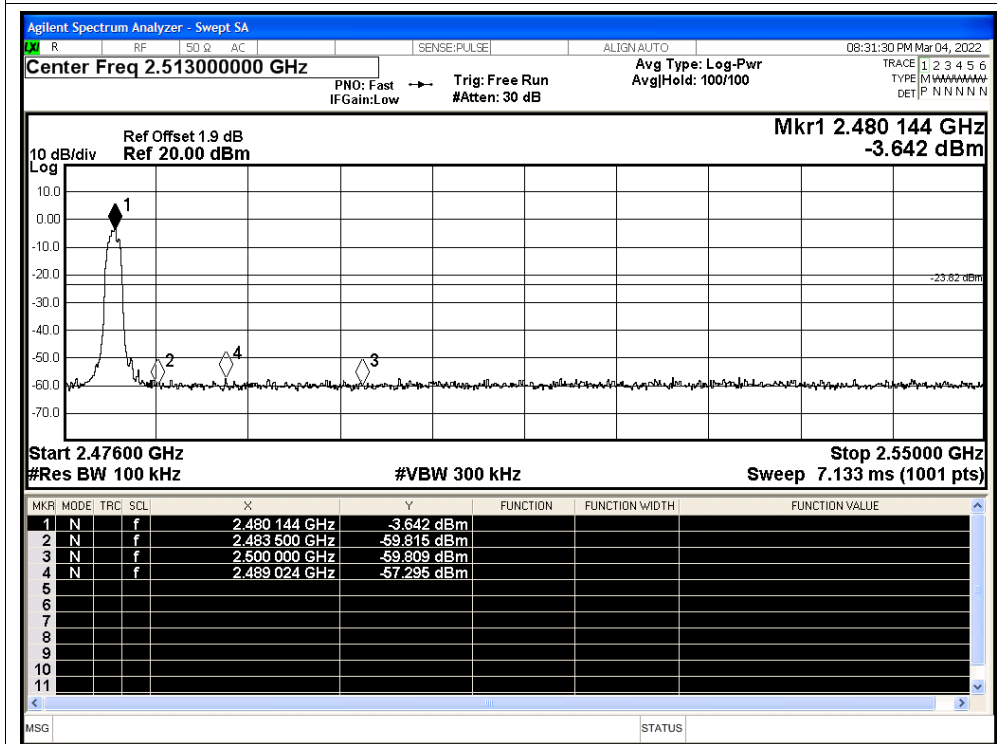




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





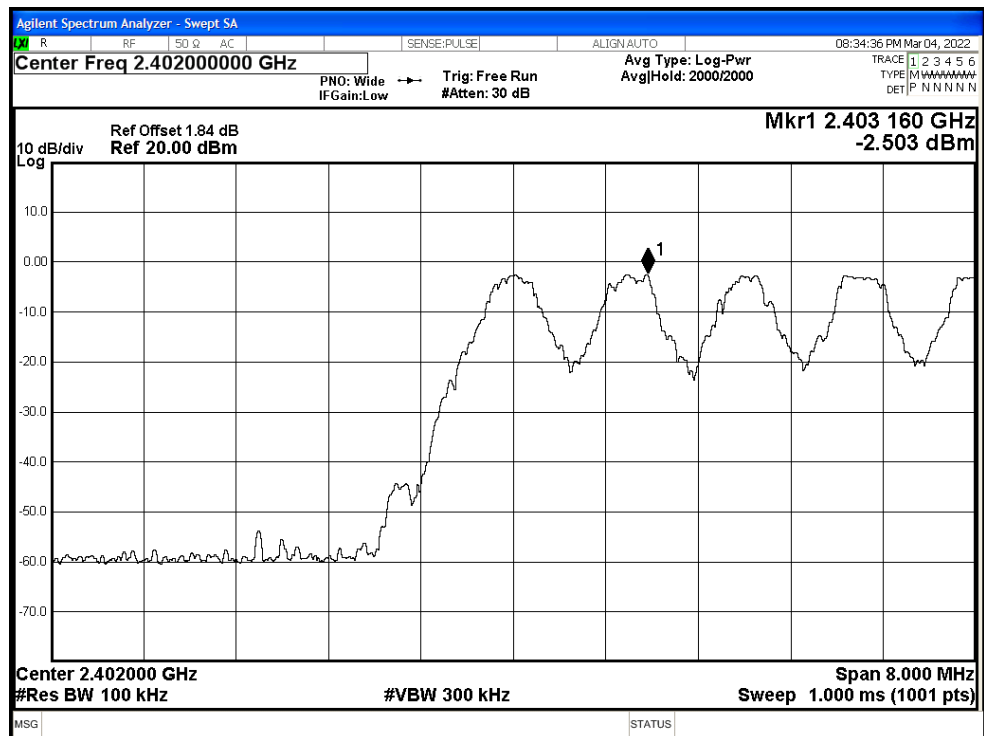
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-50.02	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.85	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.75	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.13	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.02	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-45.83	-20	Pass

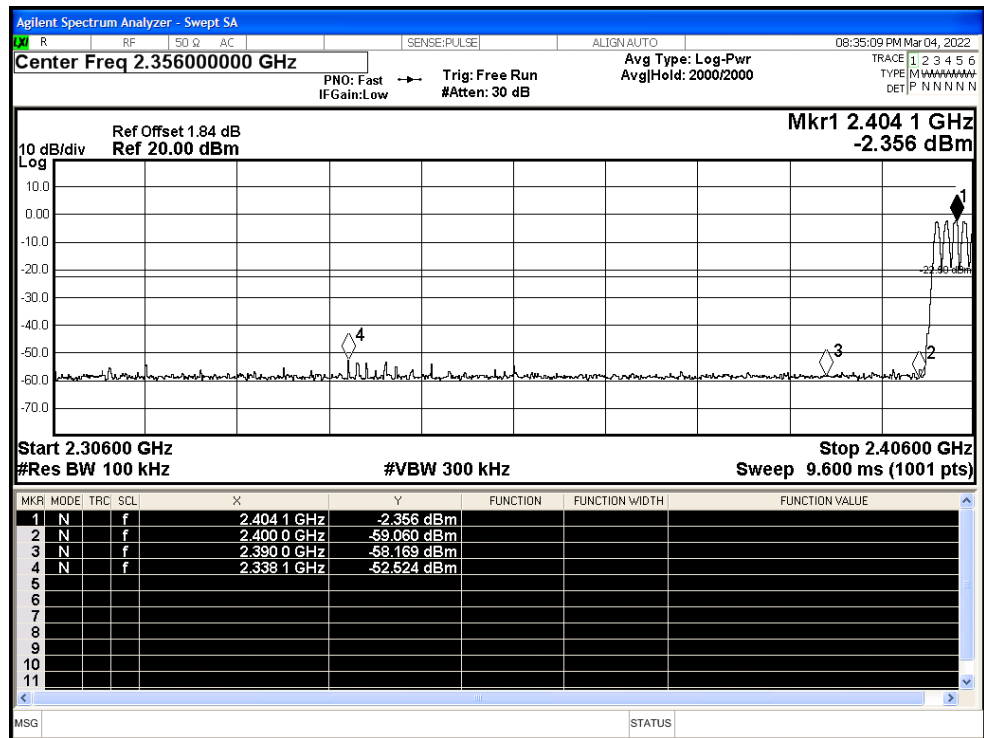


Test Graphs

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

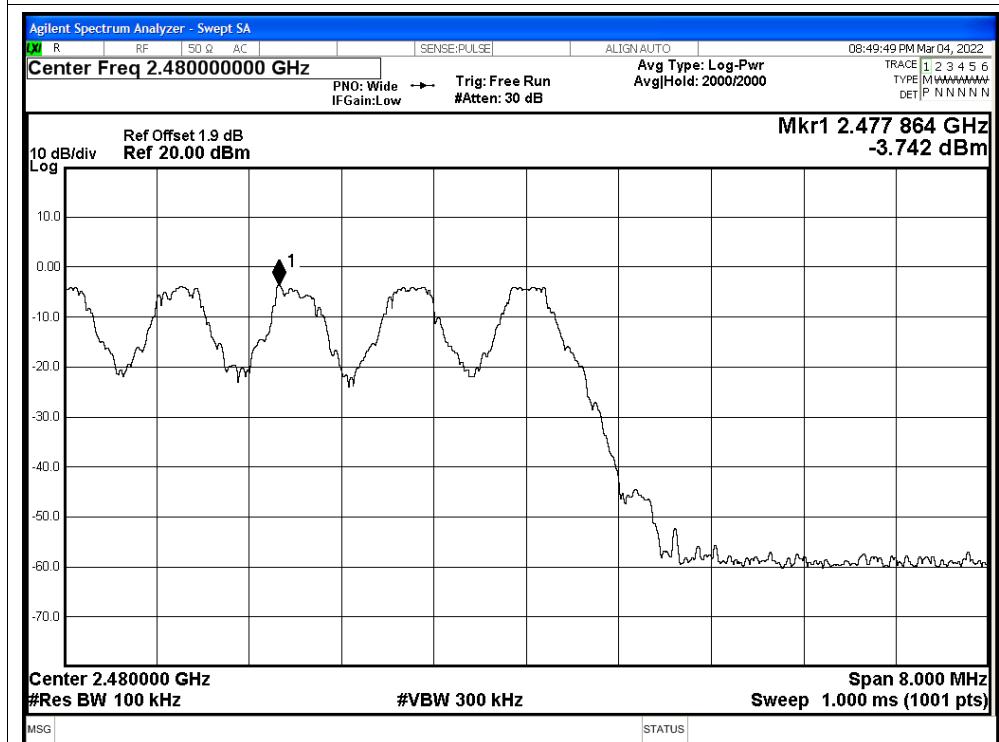


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

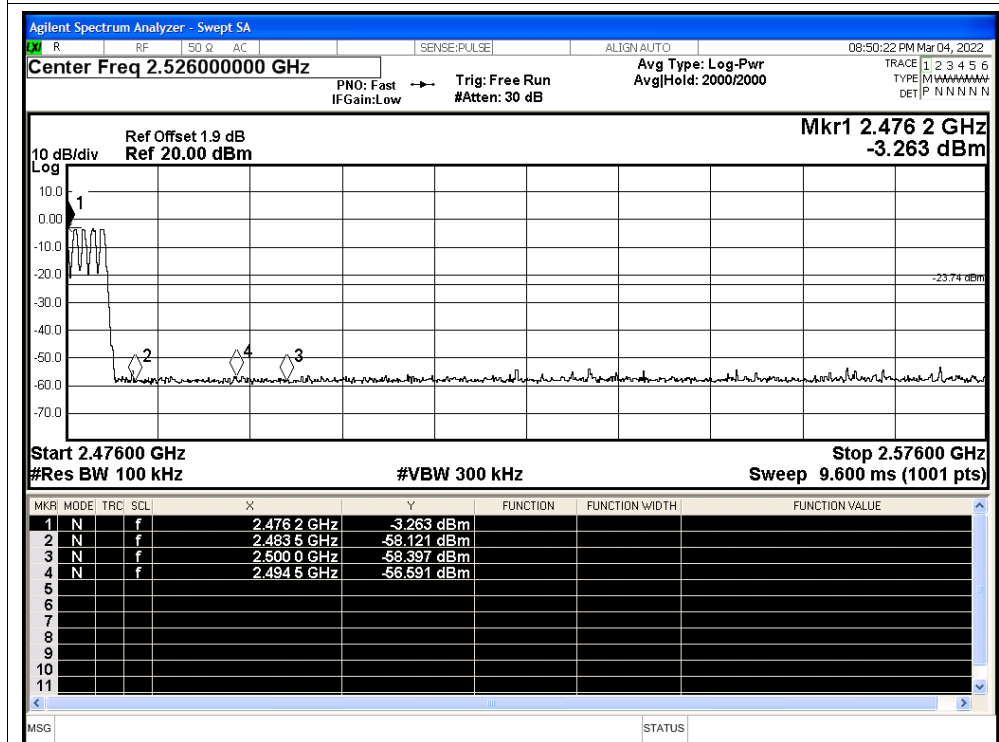




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

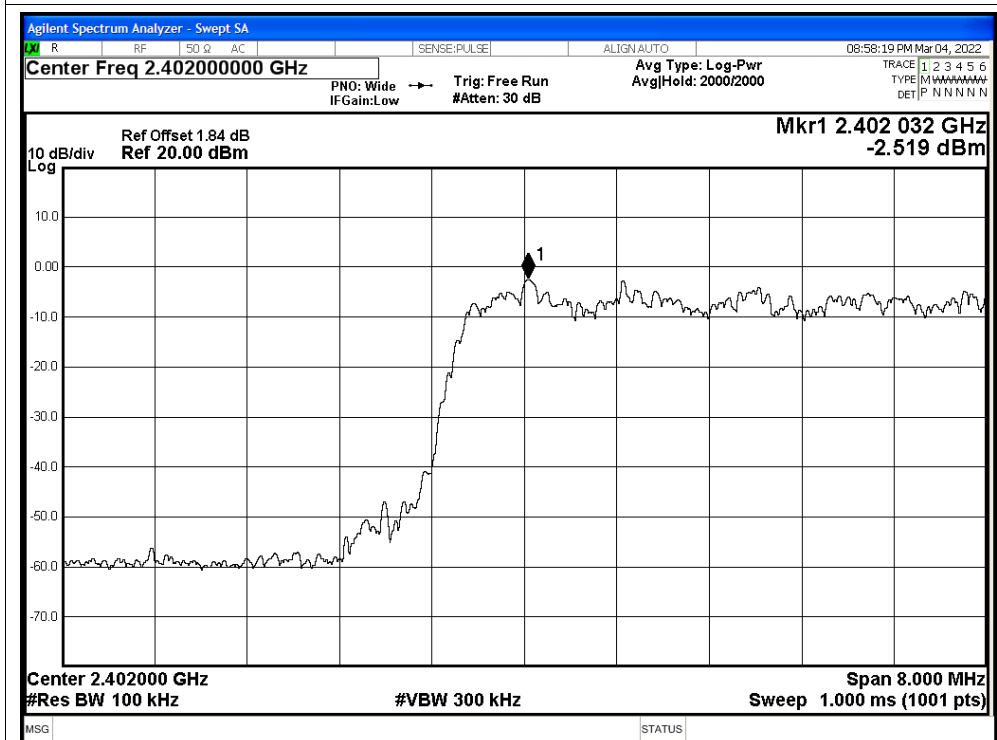


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

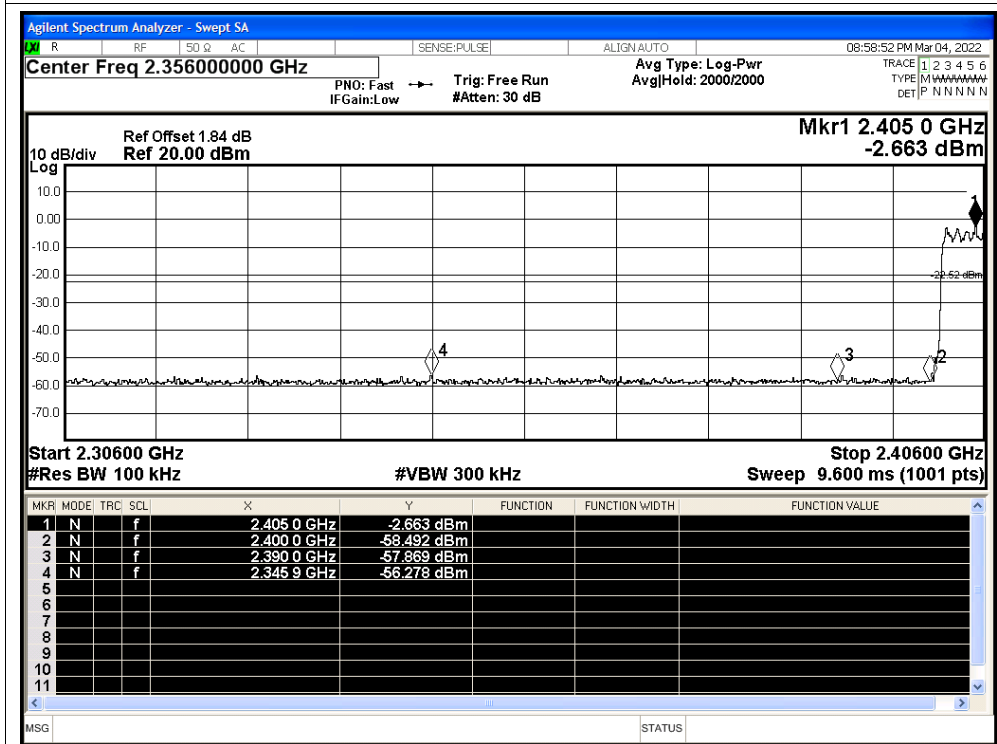




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

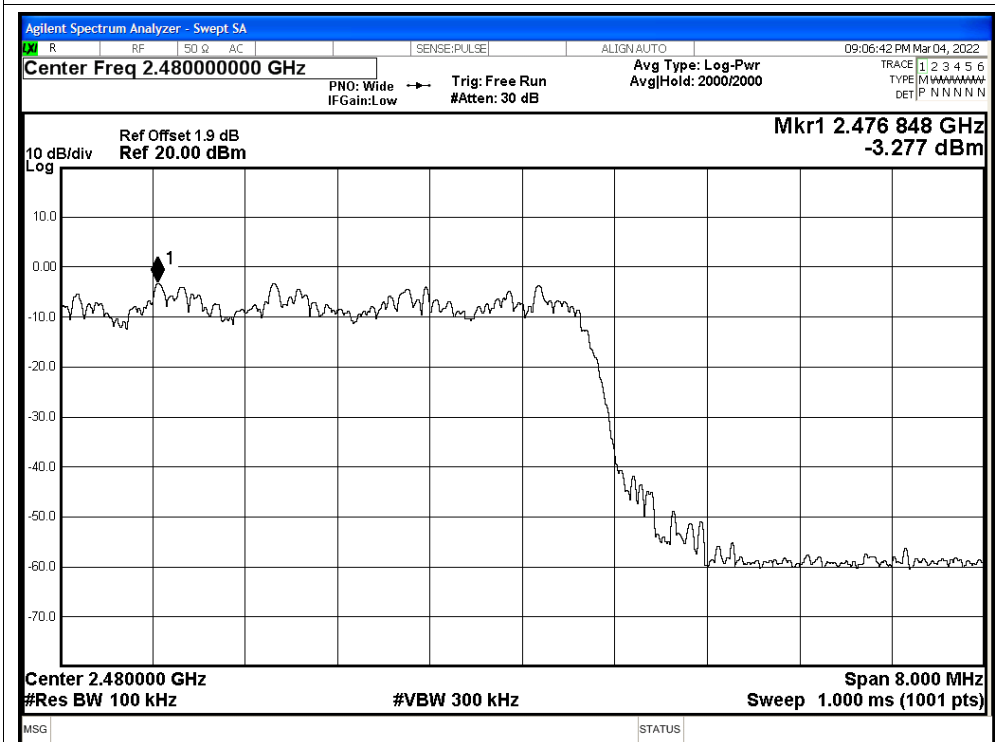


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

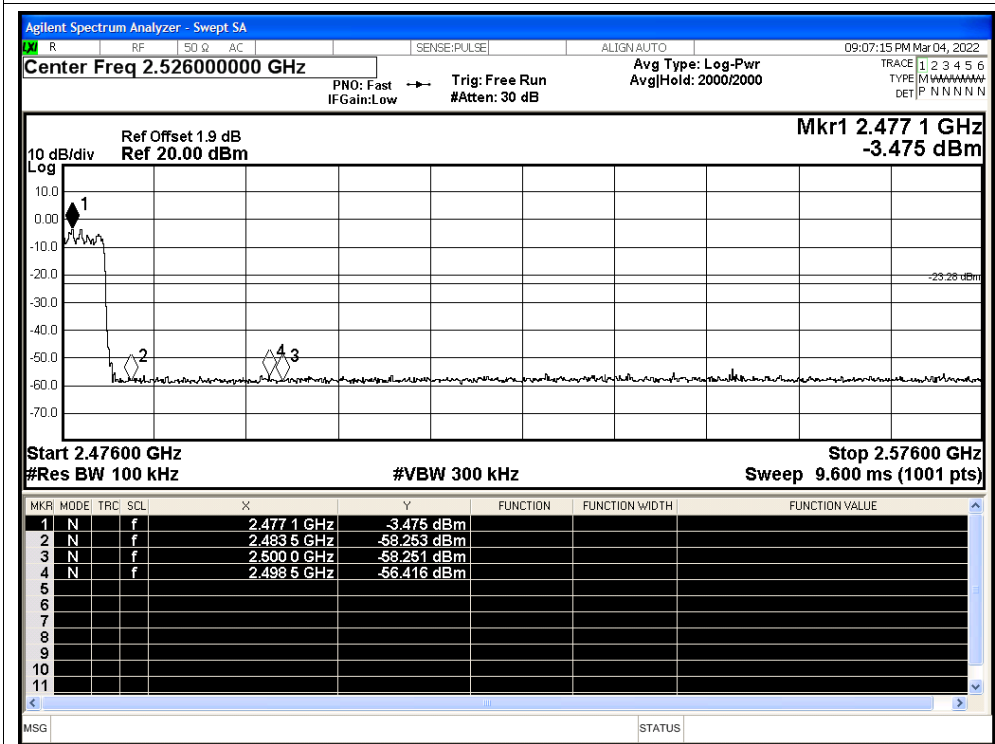




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

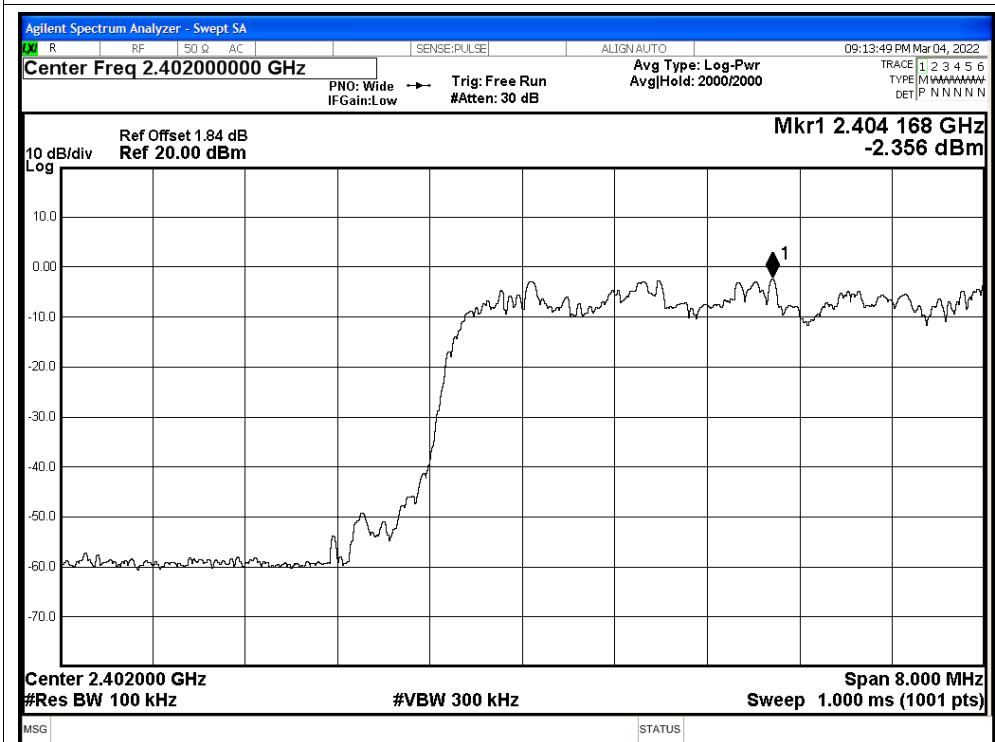


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

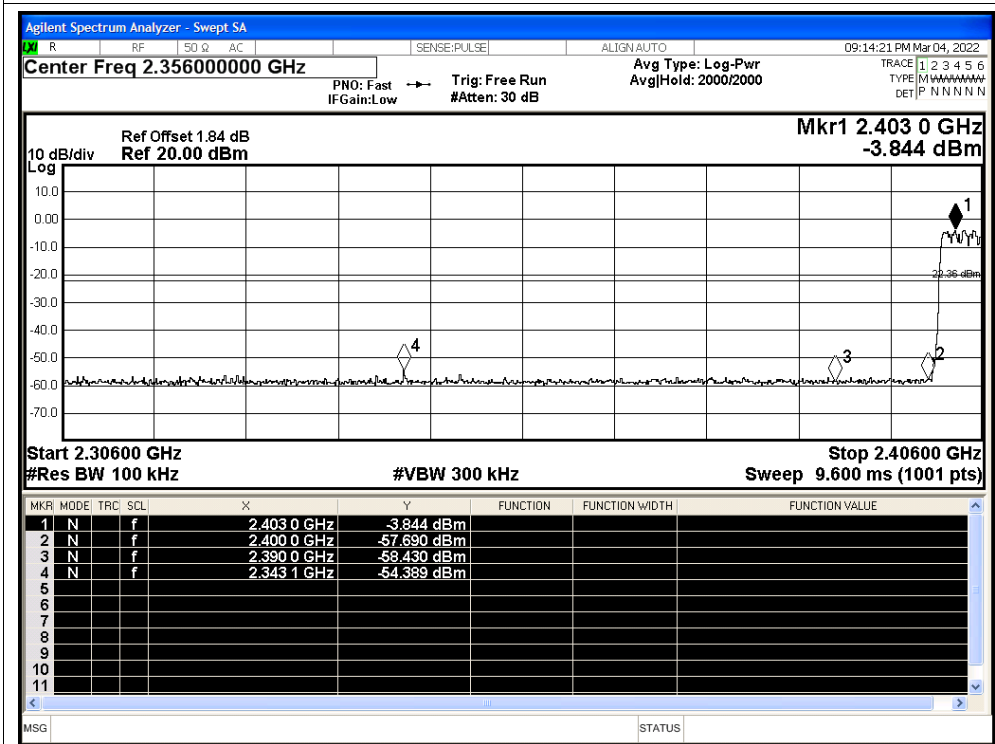




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

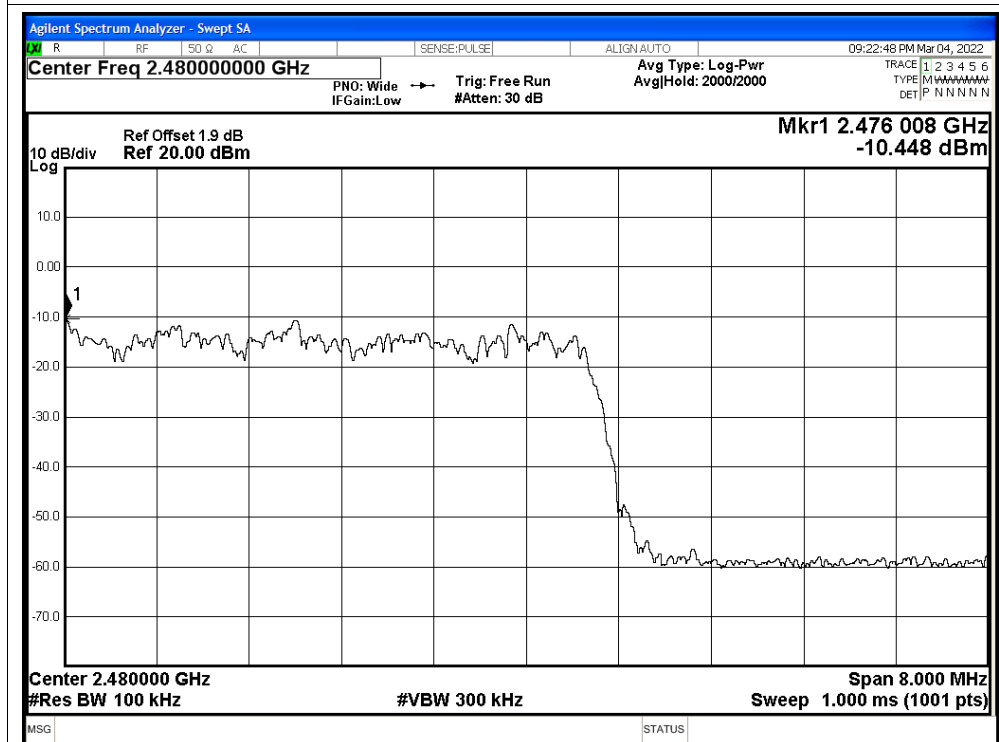


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

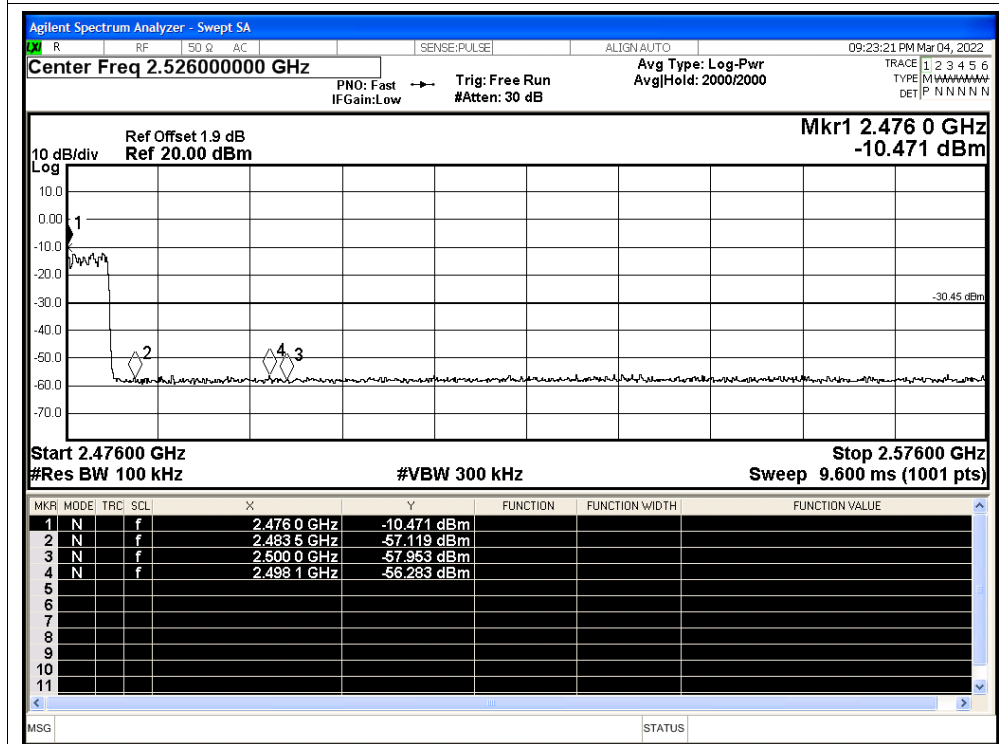




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





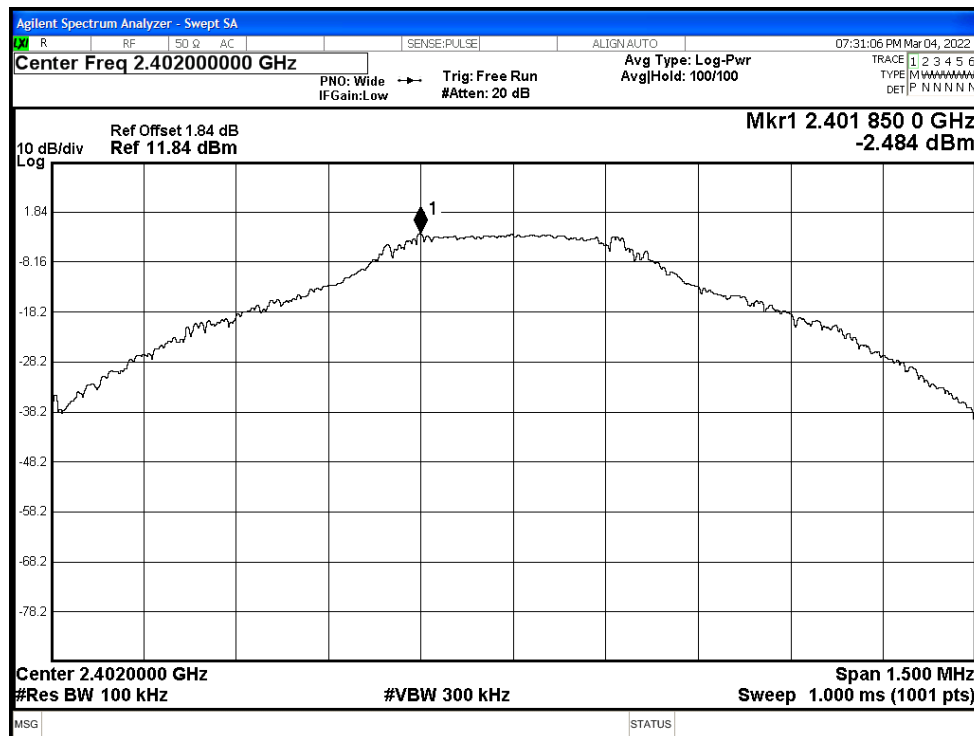
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-50.25	-20	Pass
NVNT	1-DH5	2441	Ant1	-46.63	-20	Pass
NVNT	1-DH5	2480	Ant1	-48.96	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.08	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.61	-20	Pass
NVNT	2-DH5	2480	Ant1	-48.41	-20	Pass
NVNT	3-DH5	2402	Ant1	-47.42	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.07	-20	Pass
NVNT	3-DH5	2480	Ant1	-41.71	-20	Pass

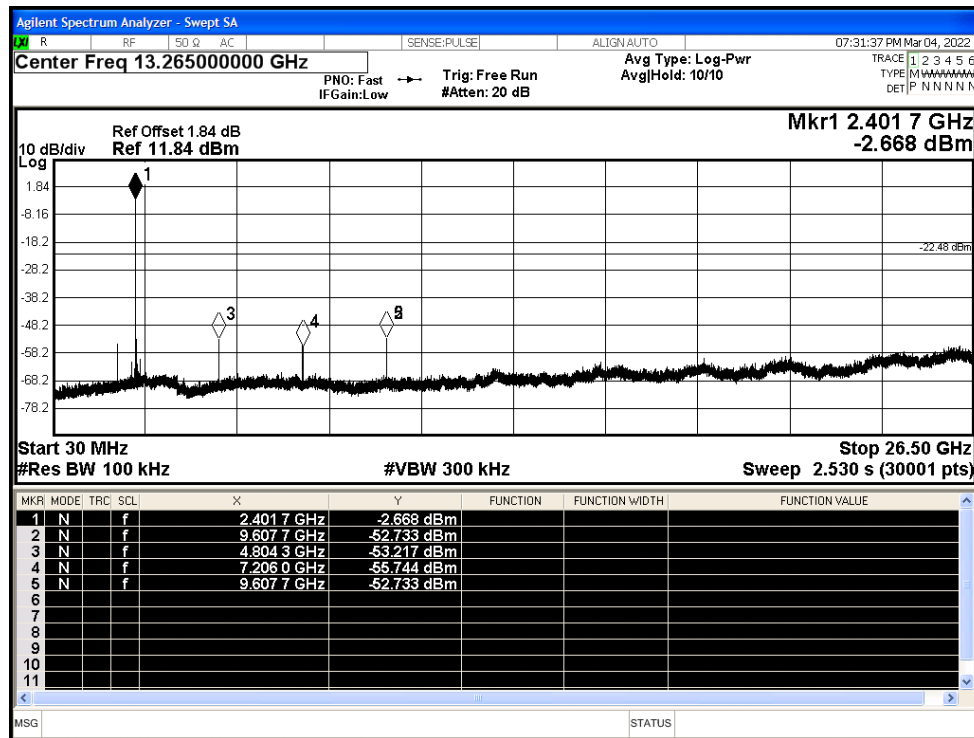


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

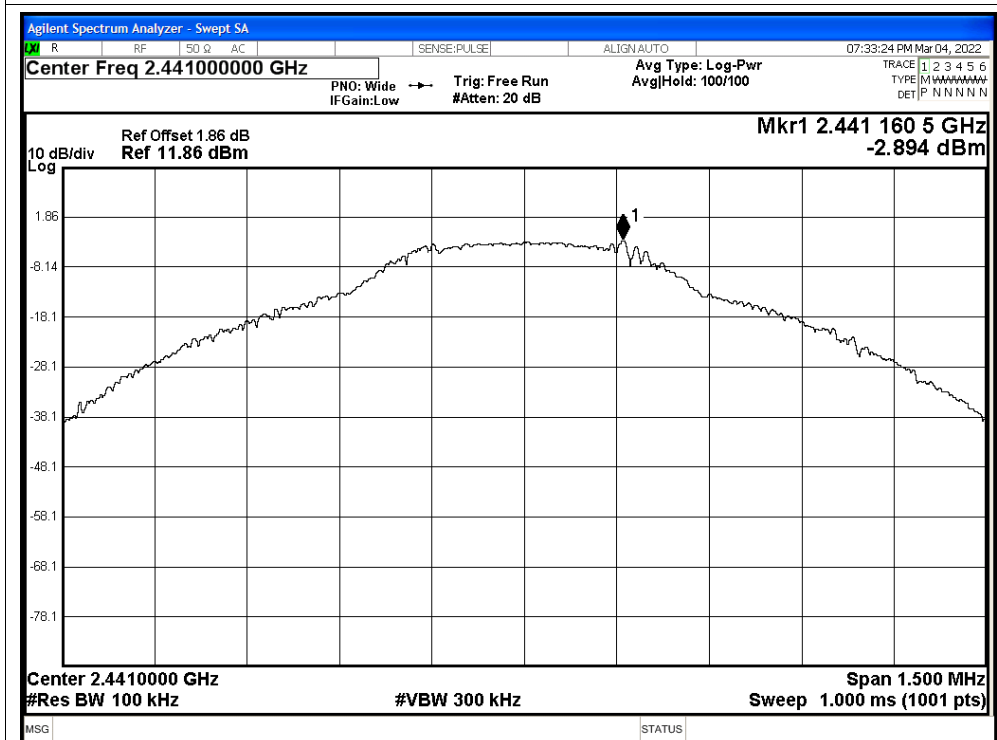


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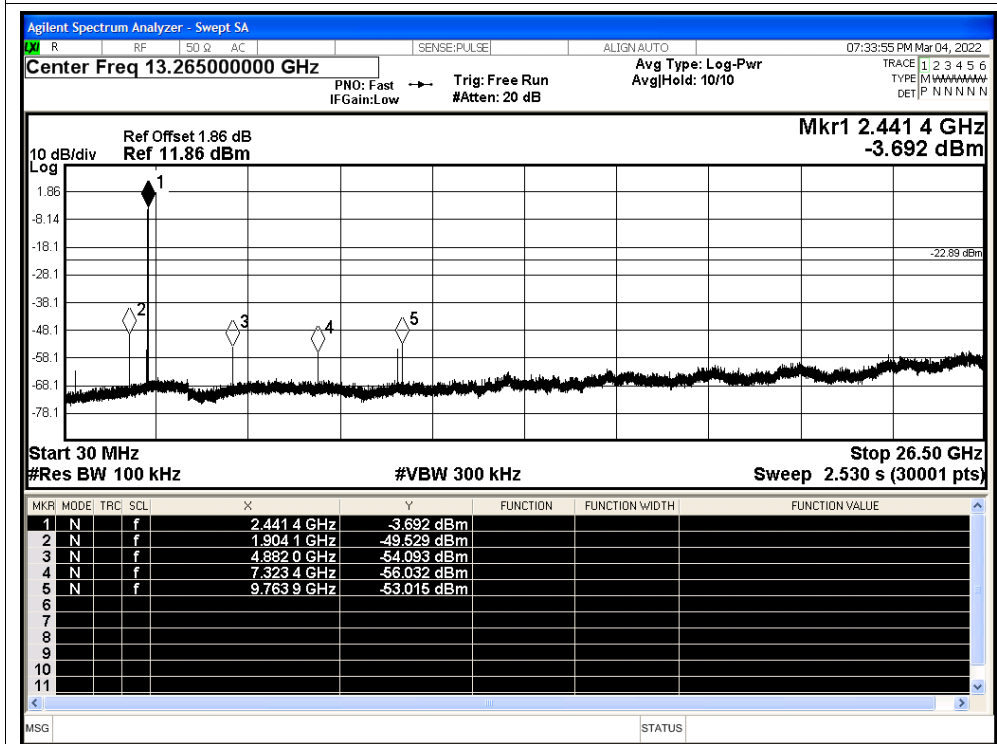




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

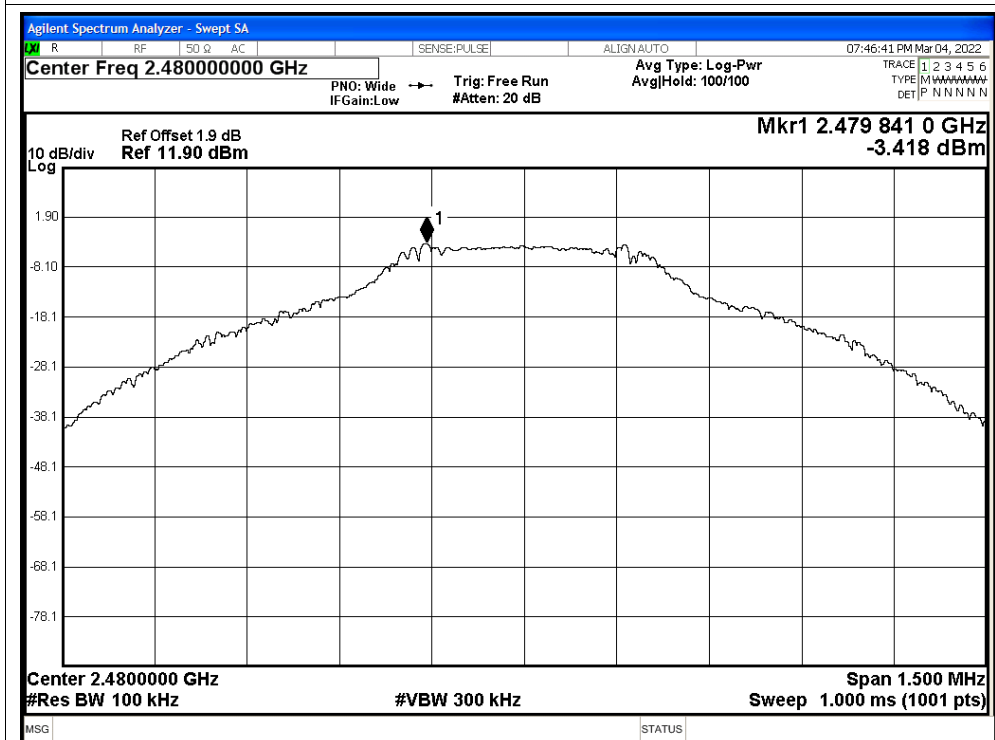


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

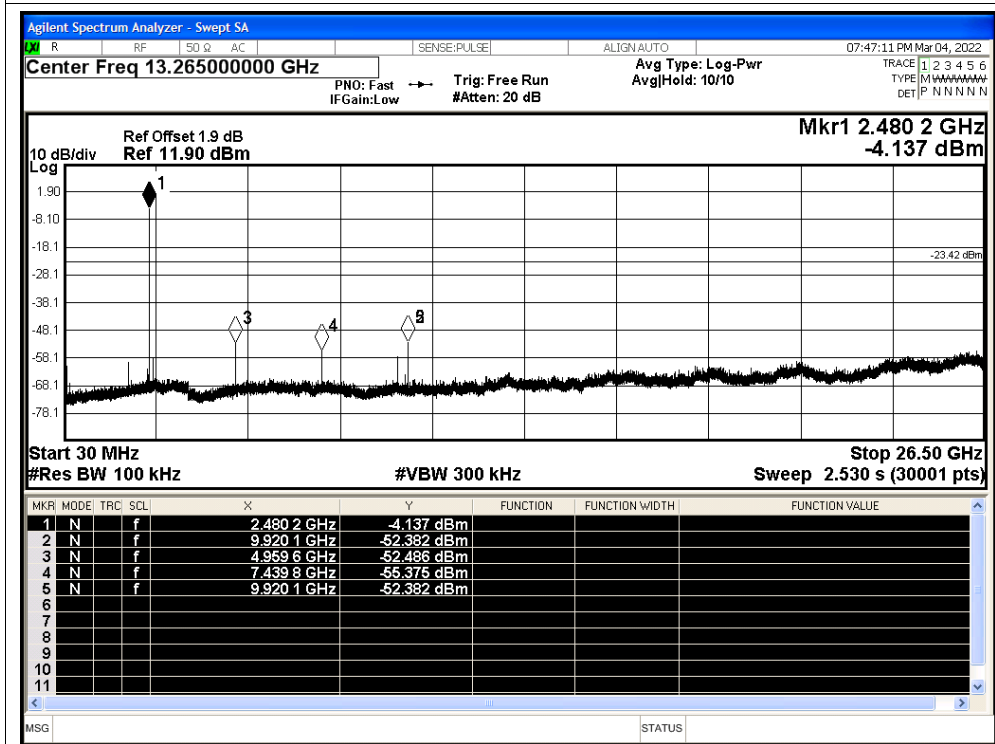




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

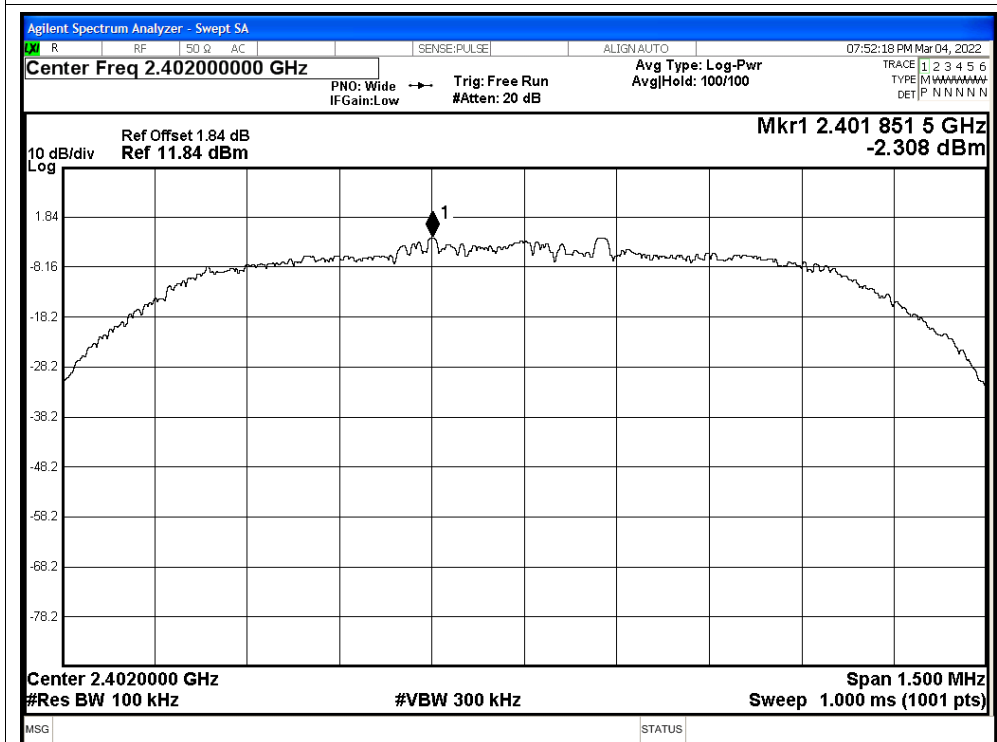


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

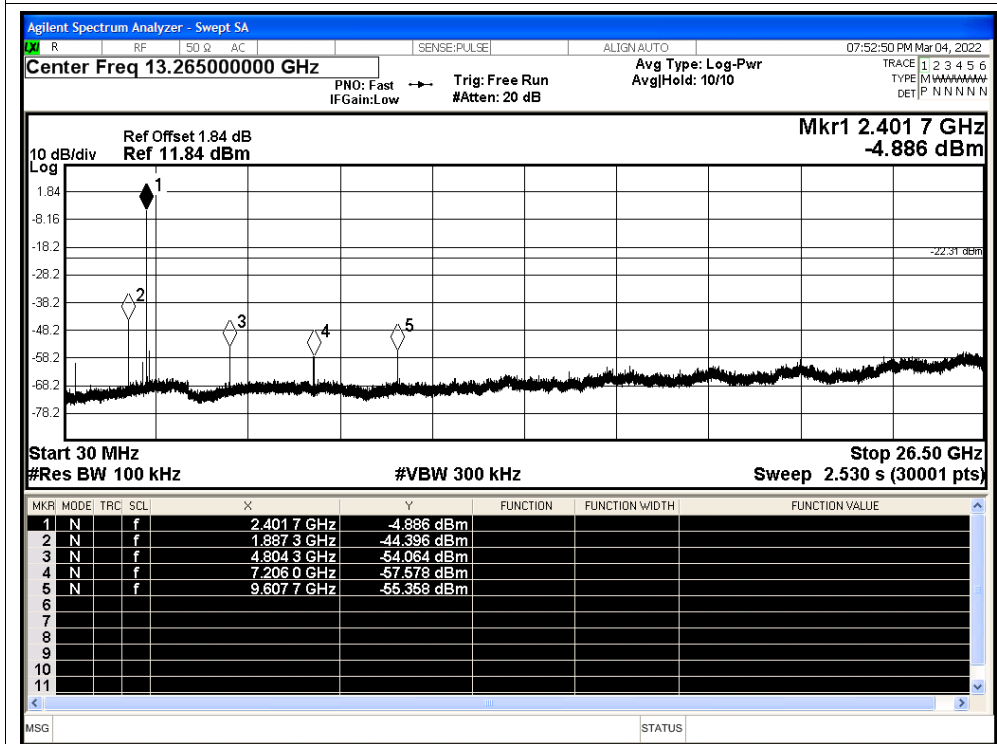




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

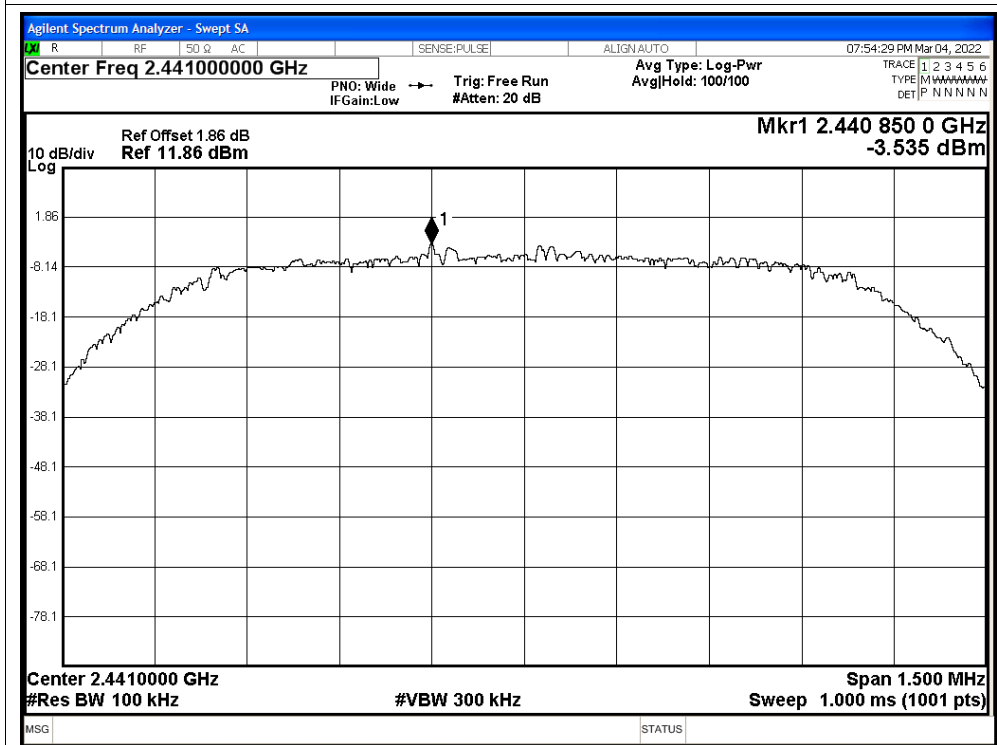


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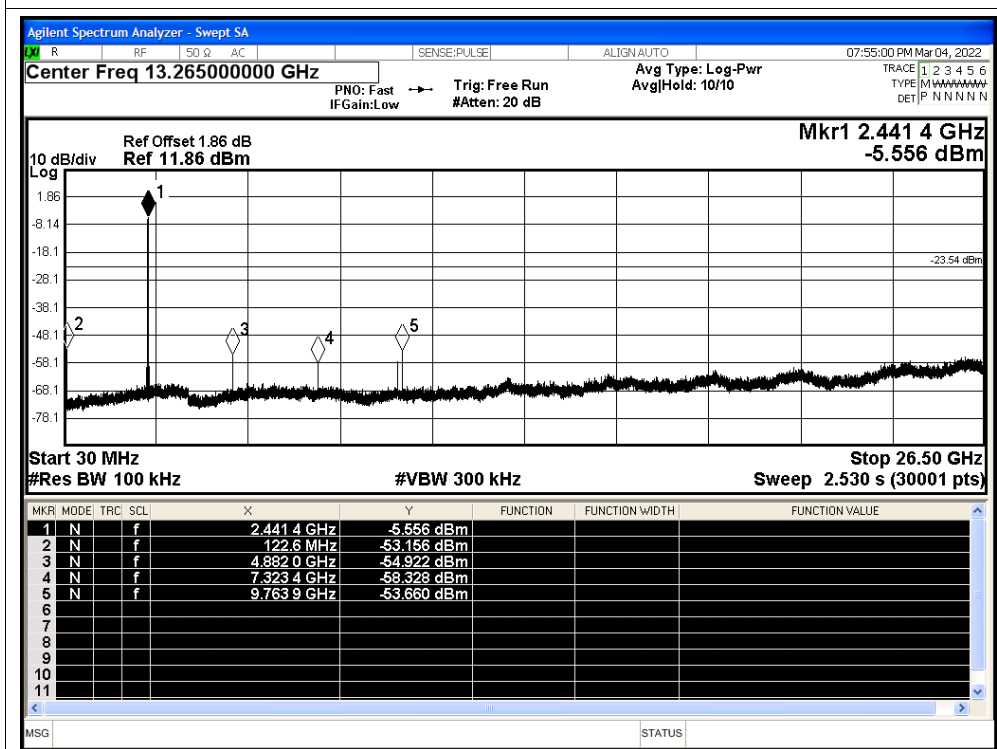




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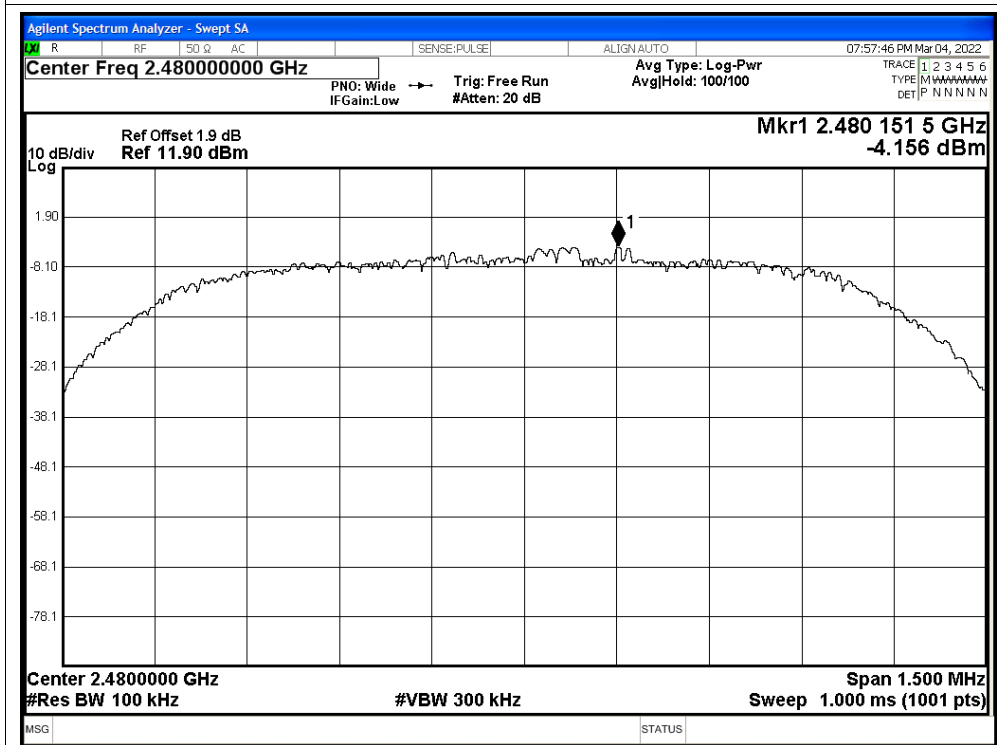


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

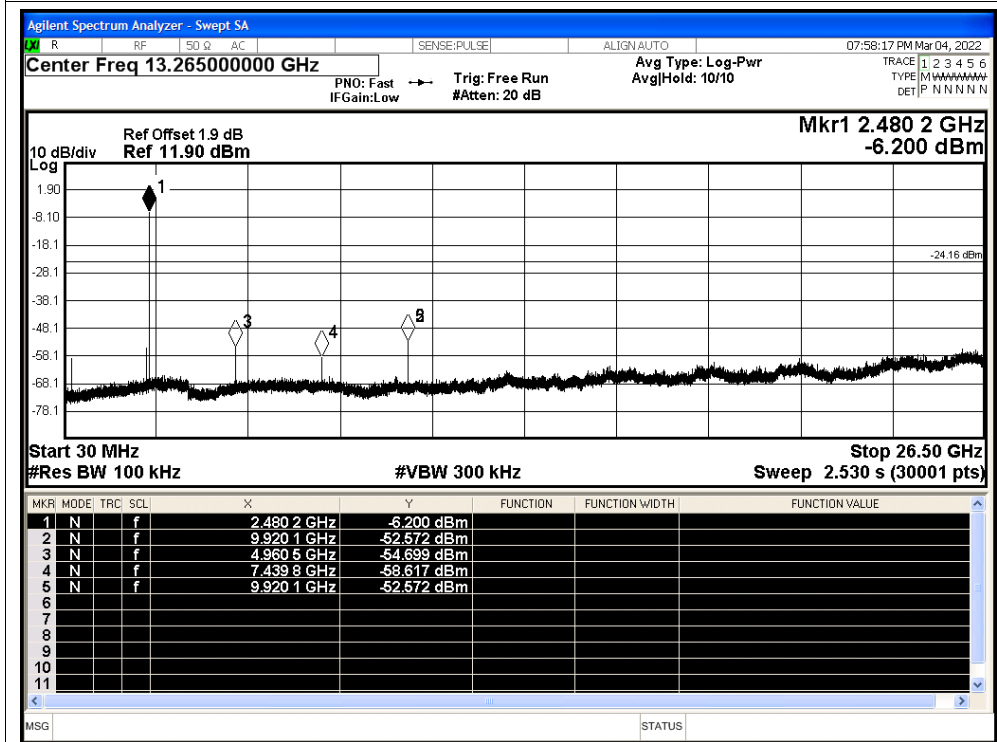




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

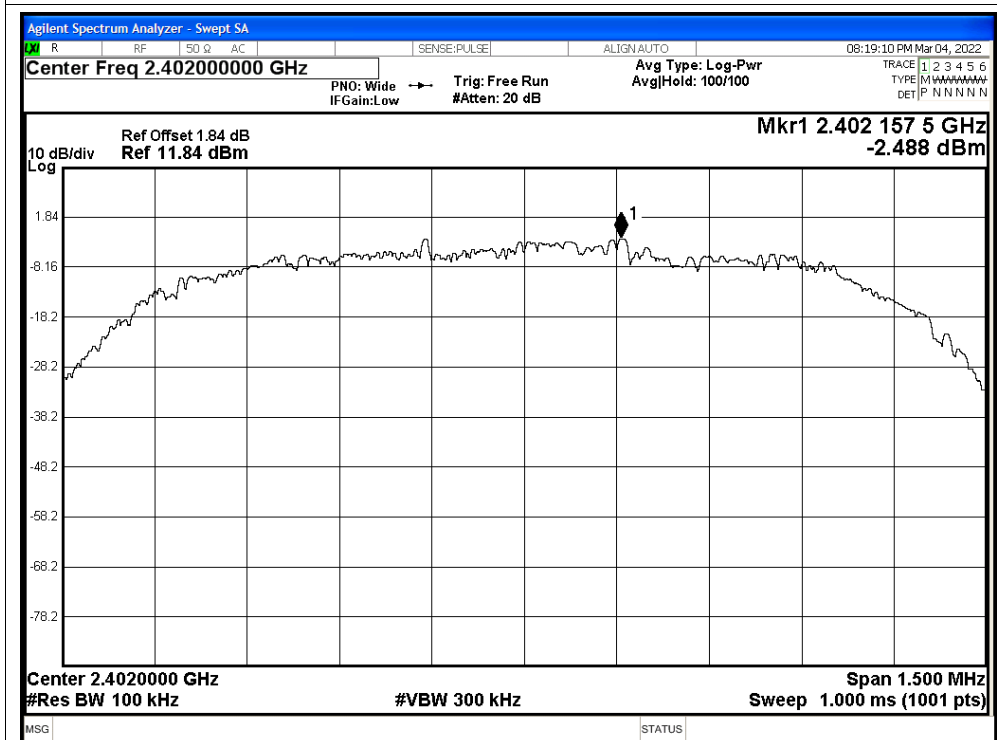


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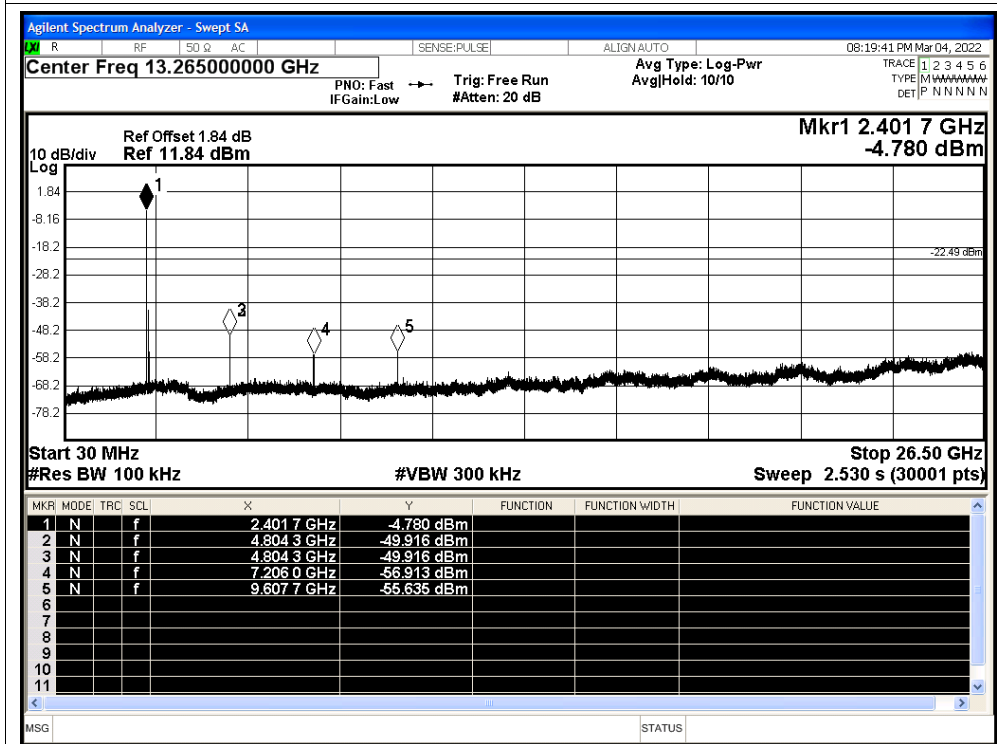




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

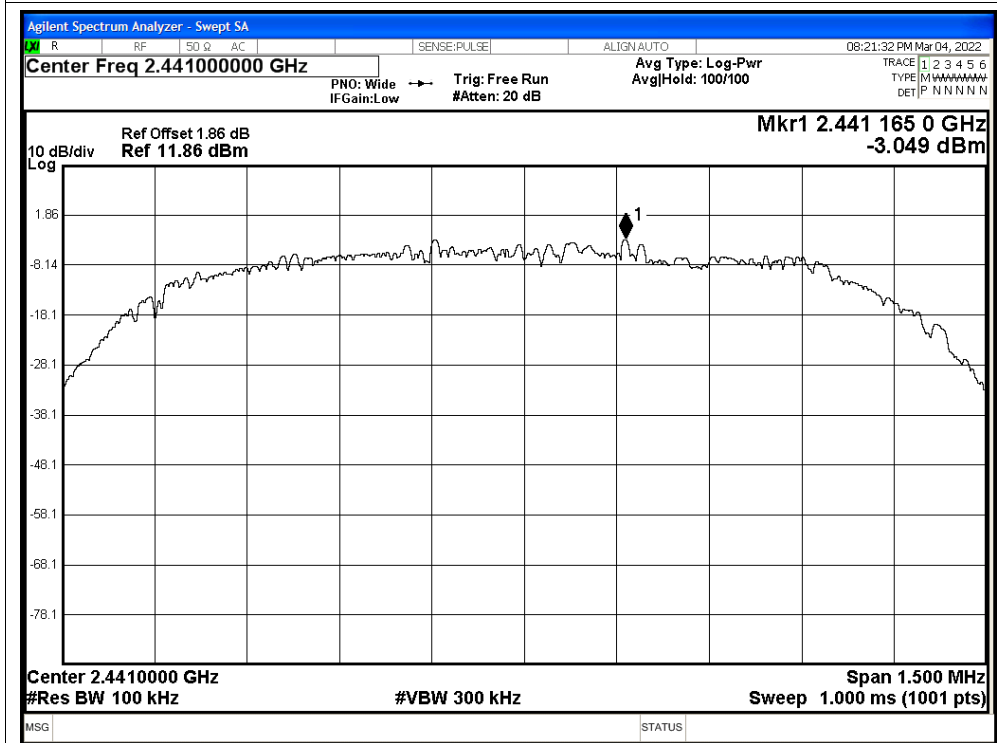


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

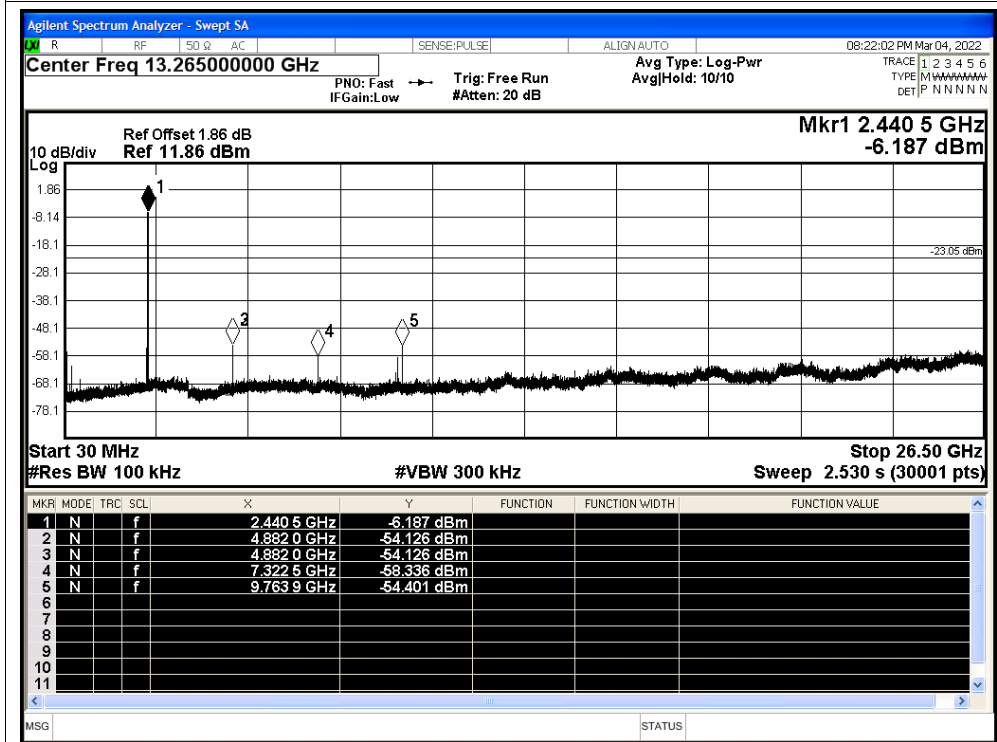




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

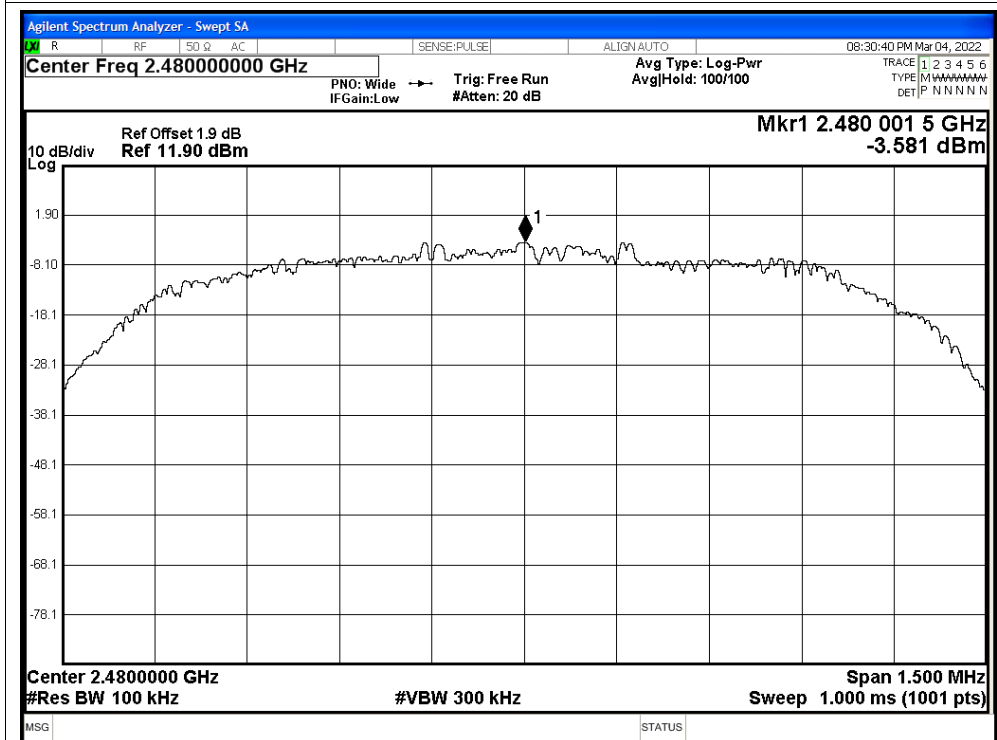


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

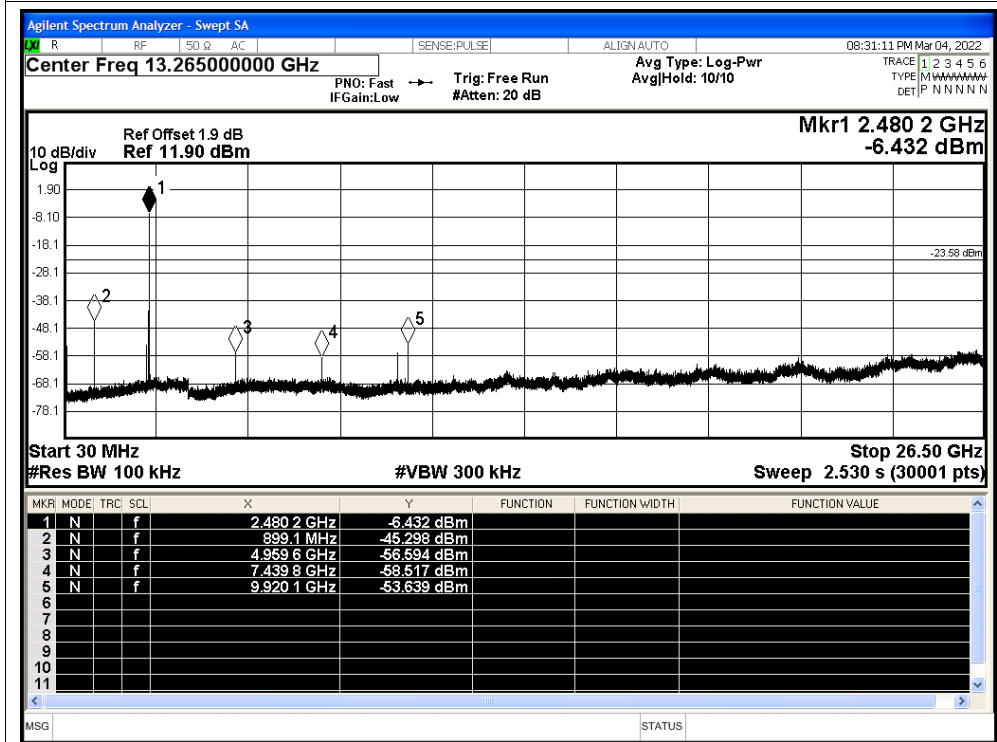




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





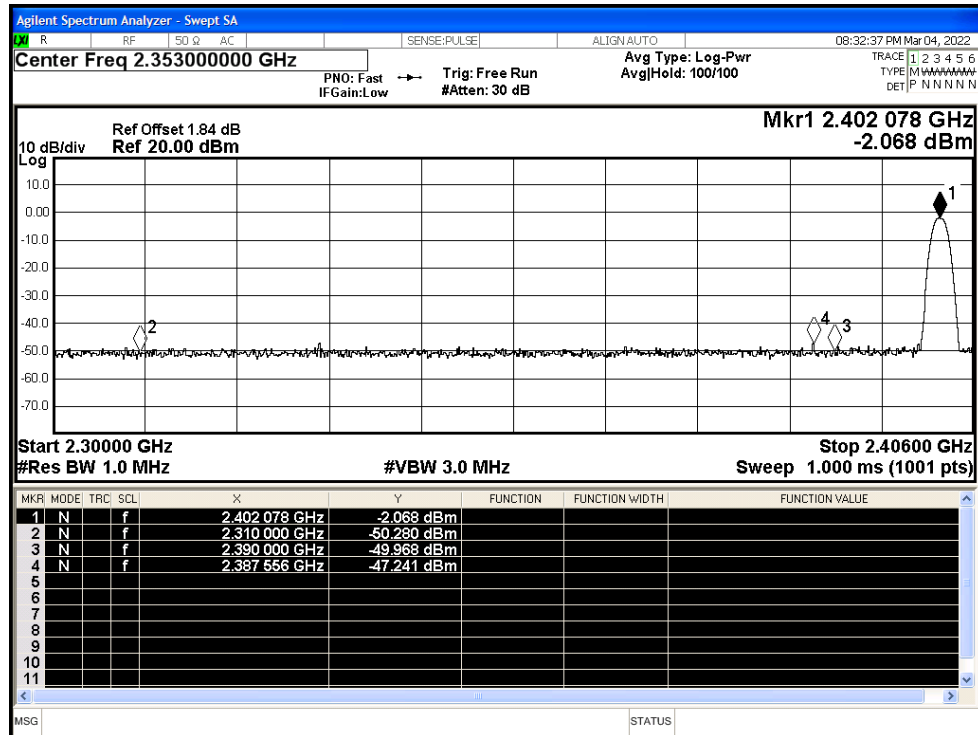
A.8 Emissions at Restricted Band

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	-50.74	2	46.52	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.75	2	36.51	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.556	-47.24	2	50.02	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2376.108	-59.96	2	37.3	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.67	2	45.59	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.37	2	36.89	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.5	2	47.76	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.82	2	37.44	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2494.13	-47.66	2	49.6	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.436	-59.64	2	37.62	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.66	2	47.6	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.07	2	37.19	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.43	2	46.83	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.68	2	36.58	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2365.932	-47.48	2	49.78	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2376.214	-59.84	2	37.42	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.18	2	47.08	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.29	2	36.97	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.63	2	47.63	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.86	2	37.4	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.214	-47.02	2	50.24	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.102	-59.8	2	37.46	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.22	2	49.04	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.06	2	37.2	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-48.74	2	48.52	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.79	2	36.47	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2313.462	-47.98	2	49.28	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2375.684	-60	2	37.26	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.08	2	47.18	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.41	2	36.85	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.49	2	46.77	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-60.04	2	37.22	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2494.426	-46.69	2	50.57	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.584	-59.77	2	37.49	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.11	2	47.15	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.05	2	37.21	Average	54	Pass

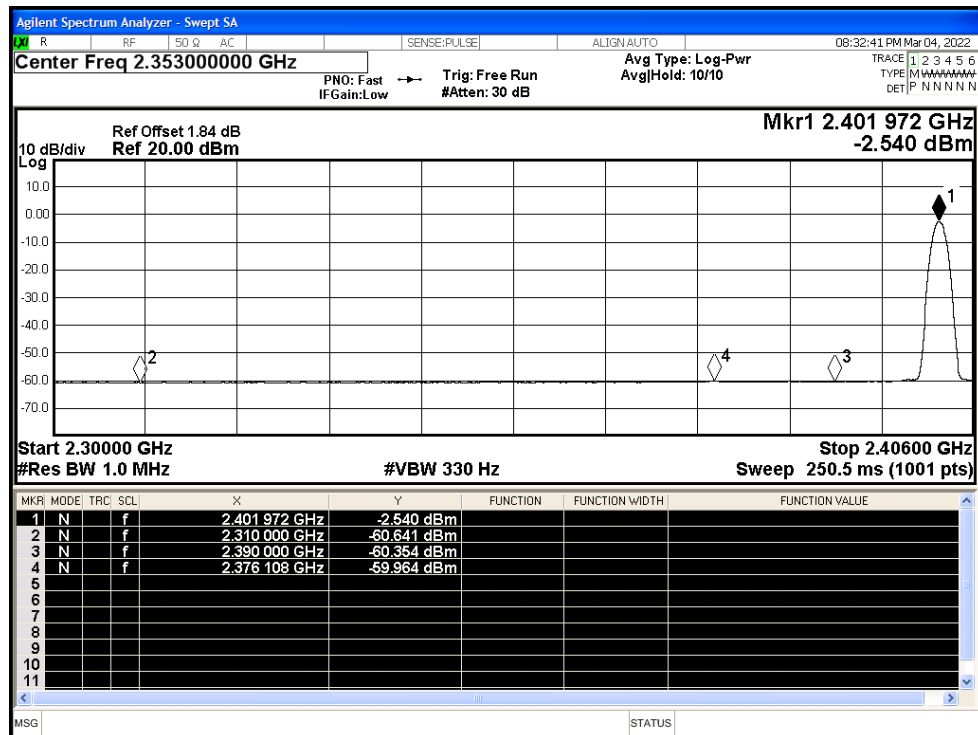


Test Graphs

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

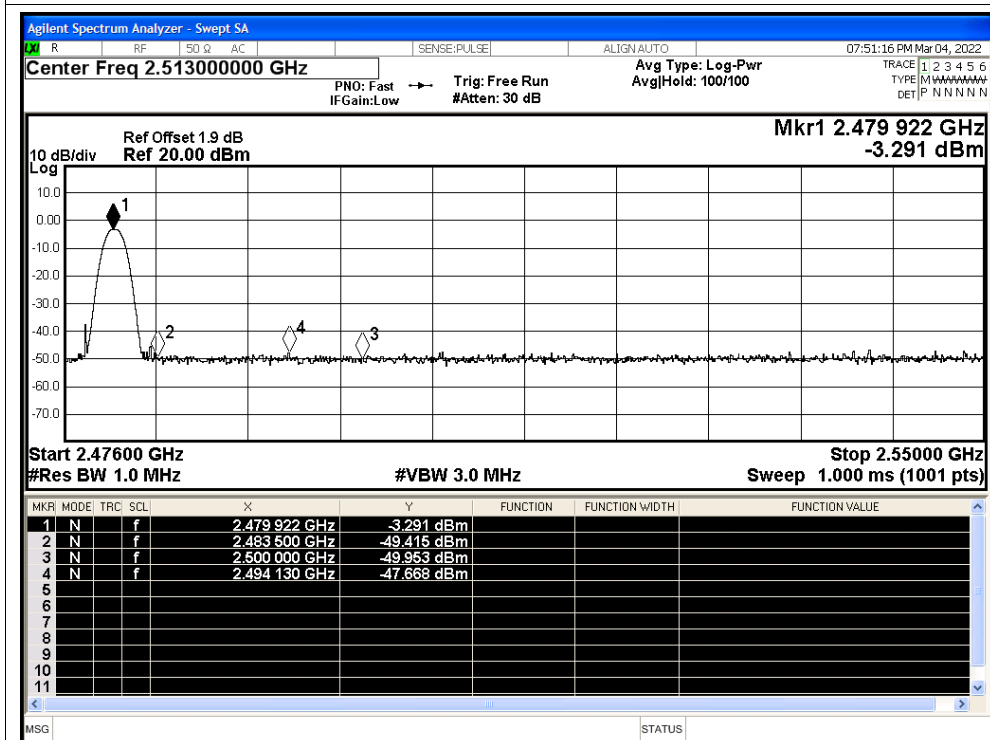


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

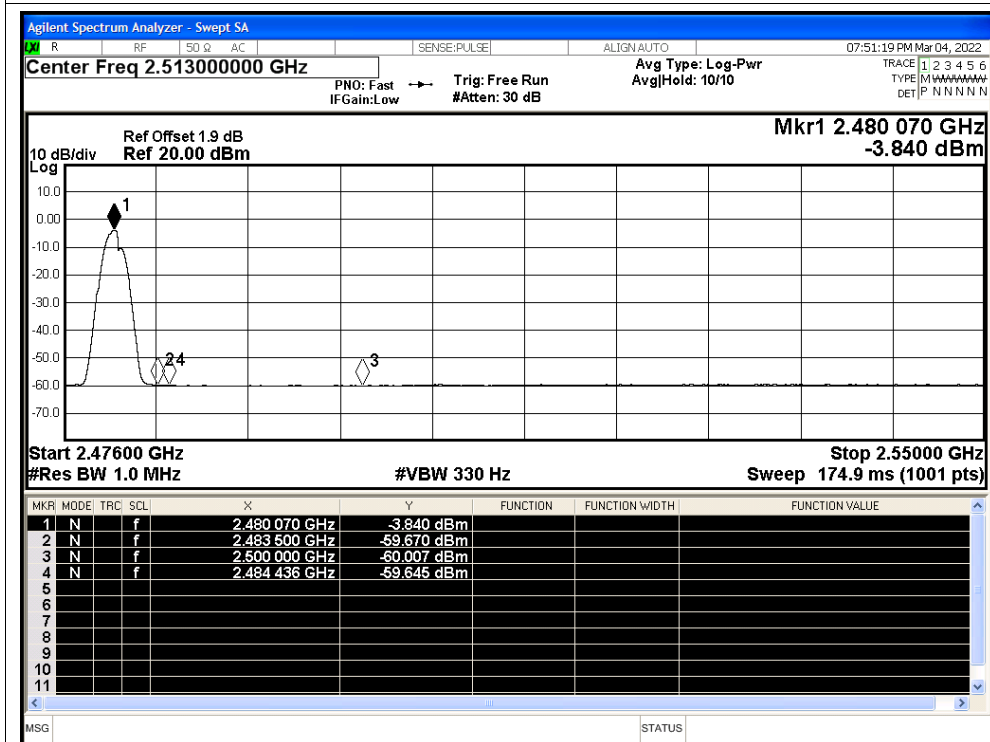




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

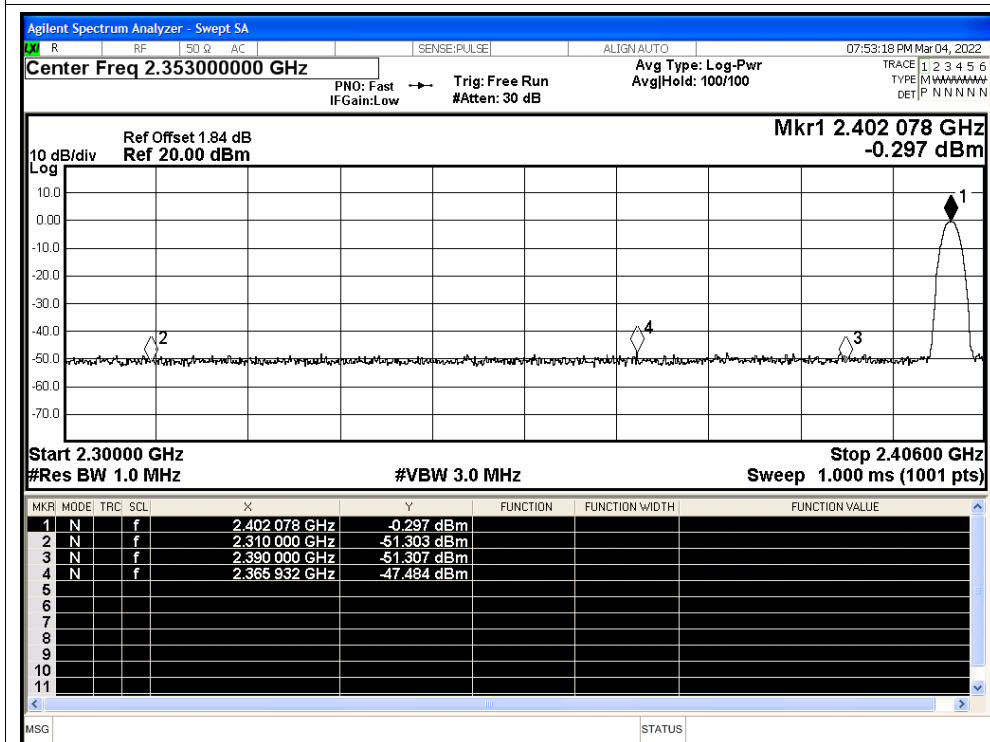


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

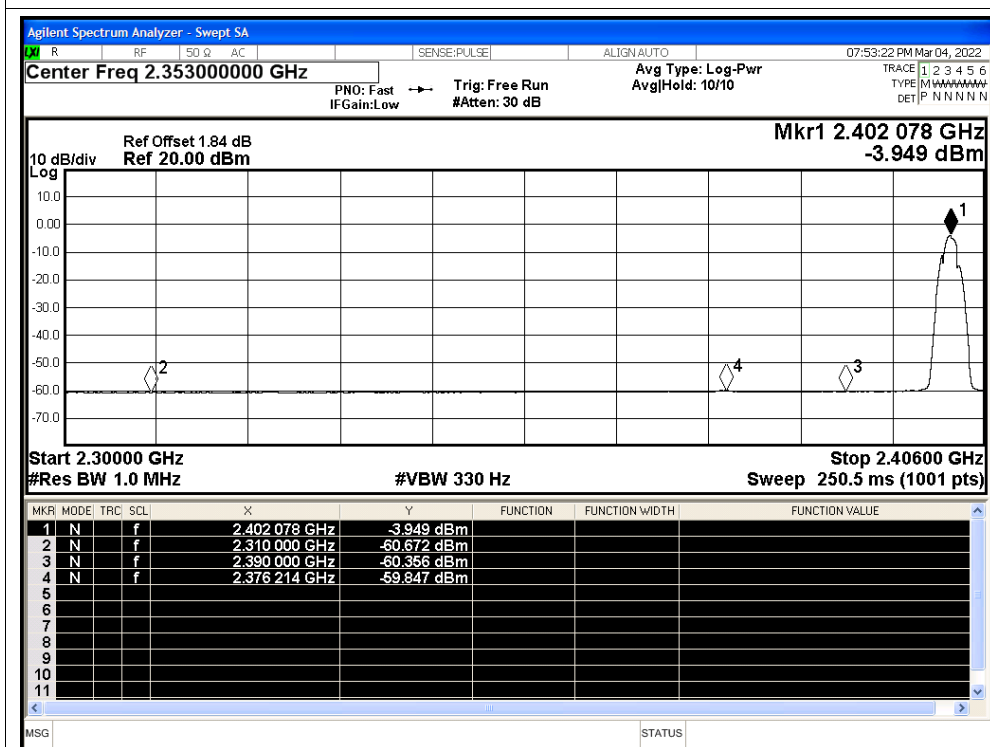




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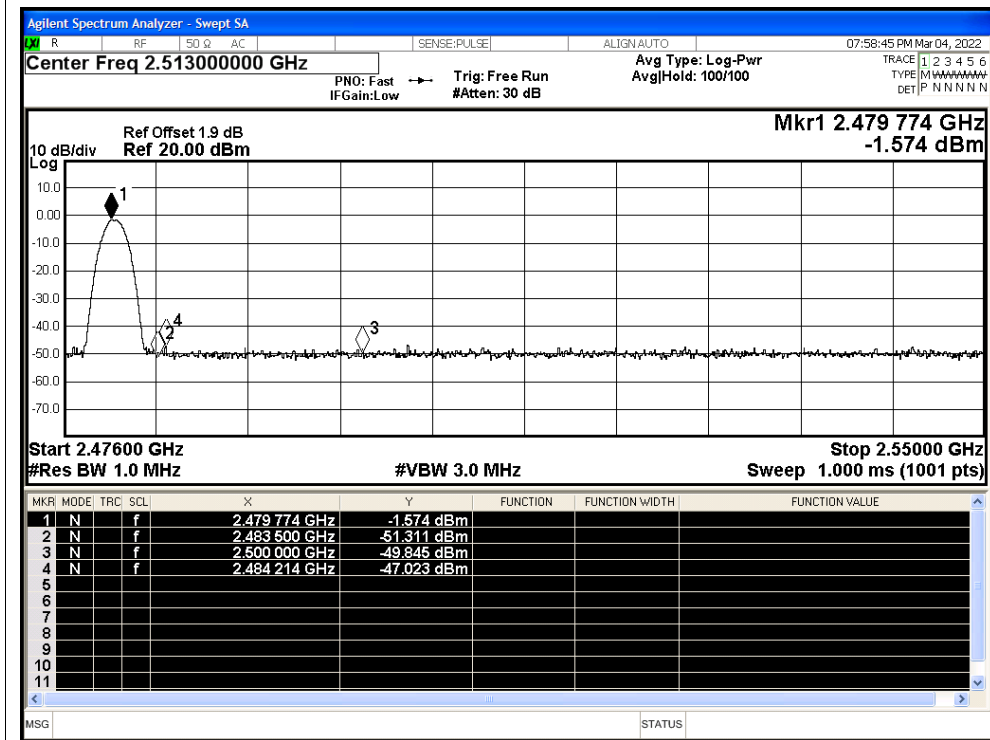


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

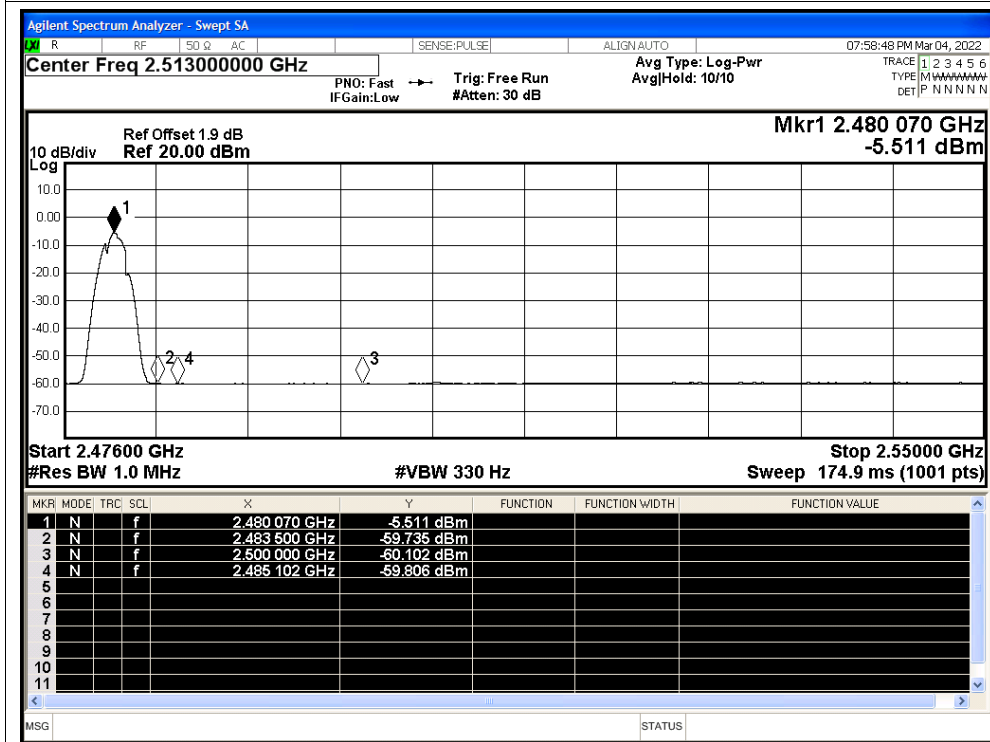




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

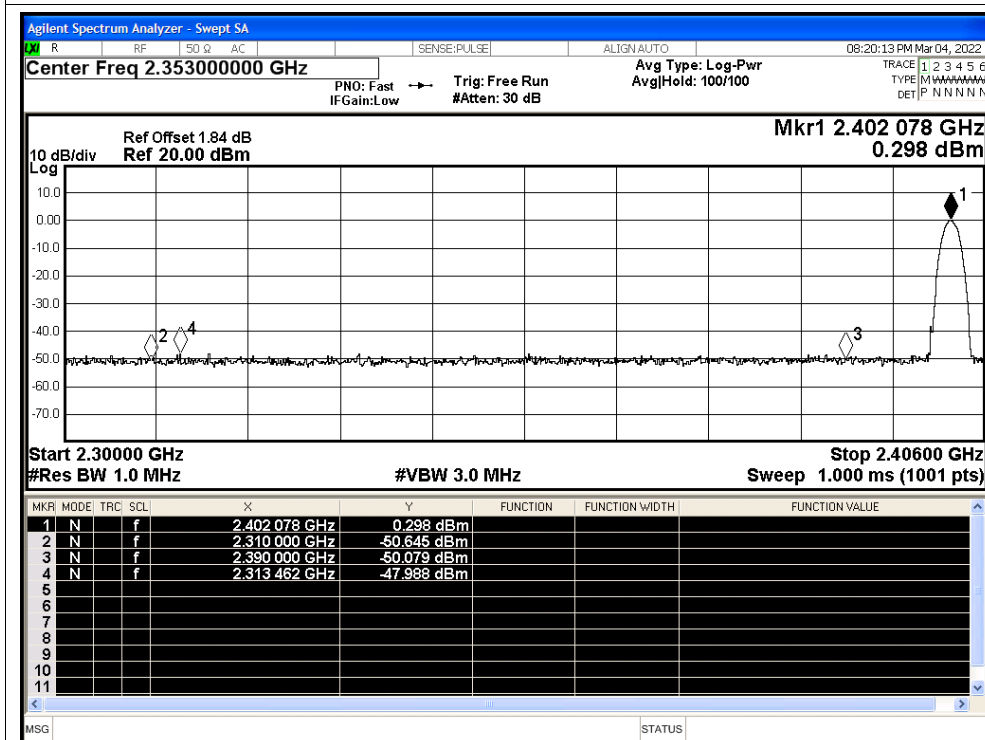


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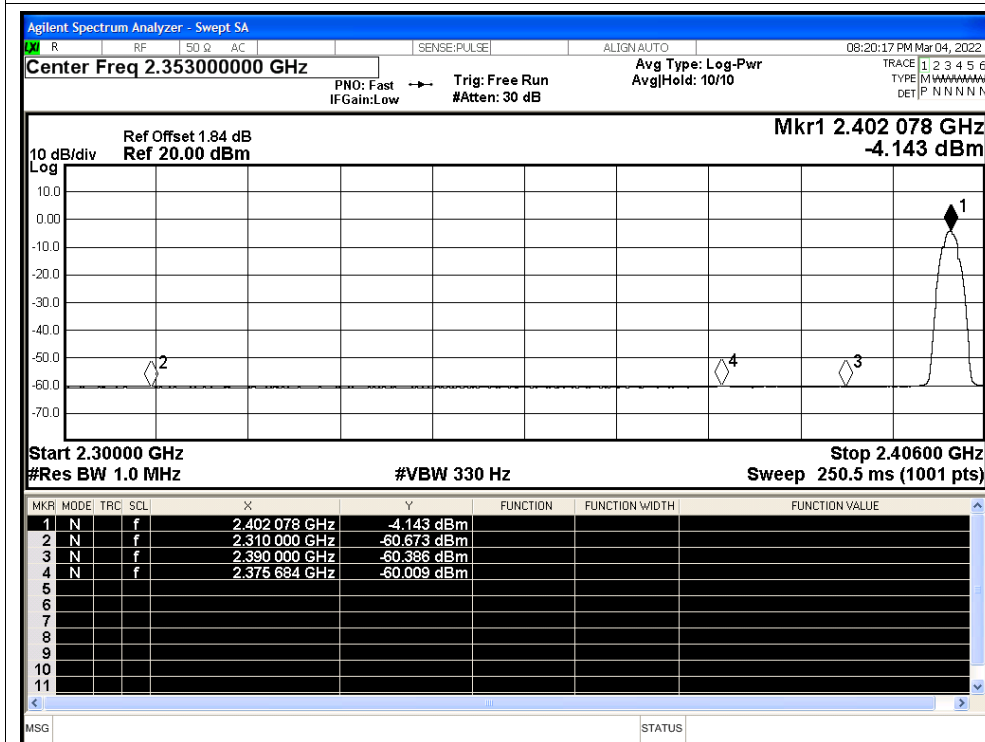




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

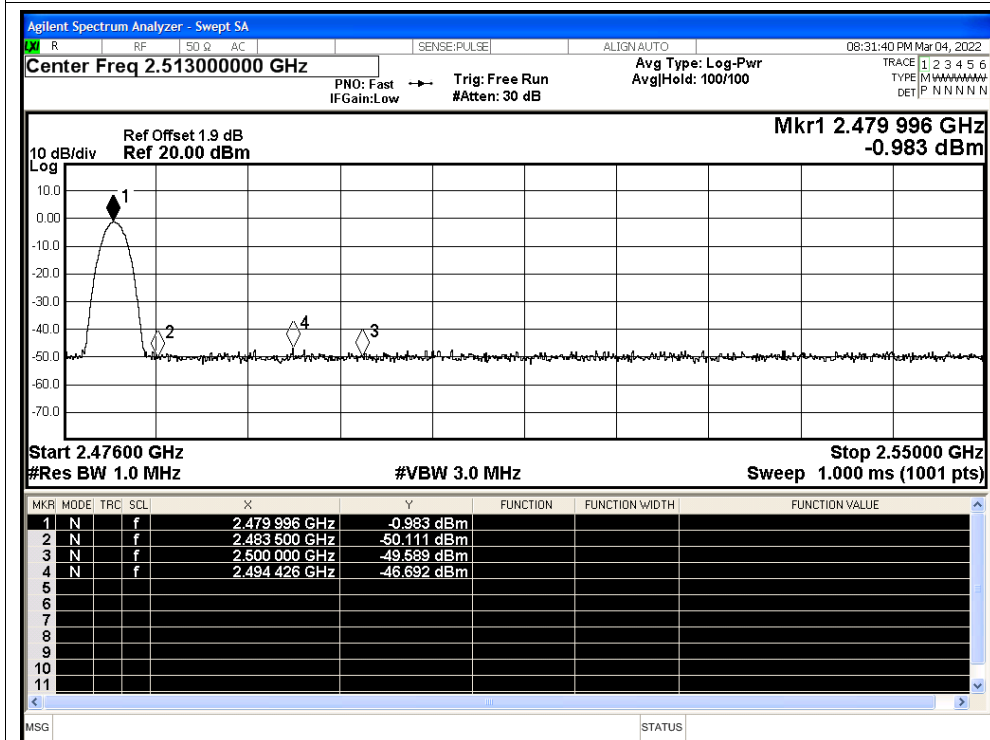


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

