



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mini smart phone

Test Model: SOYES 7S

Environmental Conditions

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



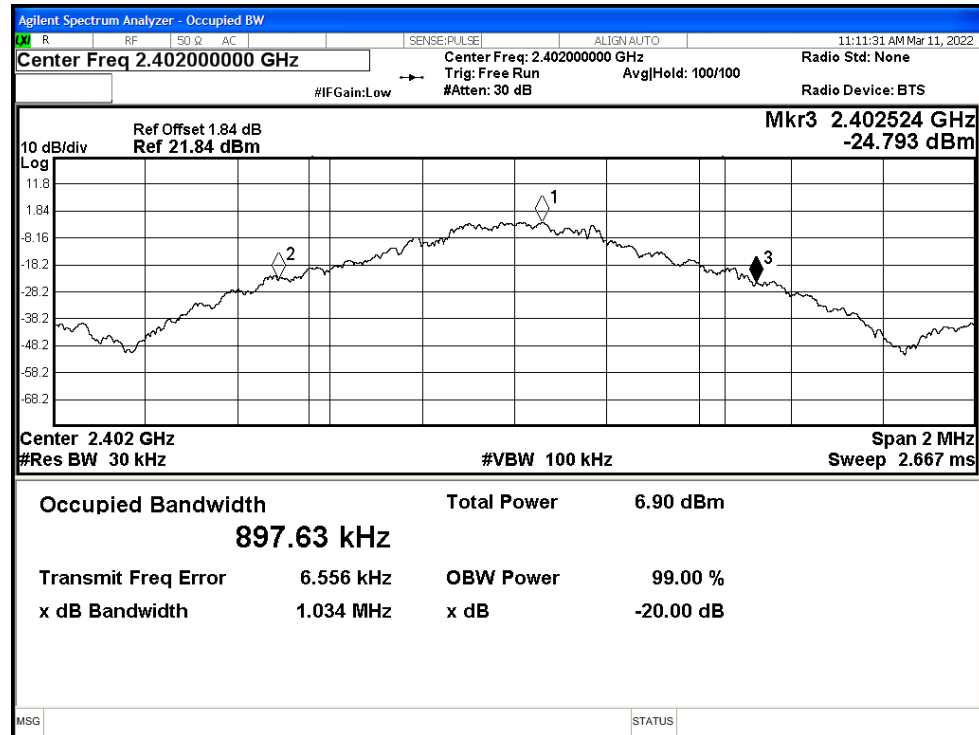
A.1 20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.034	0	Pass
NVNT	1-DH5	2441	Ant1	1.03	0	Pass
NVNT	1-DH5	2480	Ant1	1.02	0	Pass
NVNT	2-DH5	2402	Ant1	1.309	0	Pass
NVNT	2-DH5	2441	Ant1	1.286	0	Pass
NVNT	2-DH5	2480	Ant1	1.315	0	Pass
NVNT	3-DH5	2402	Ant1	1.29	0	Pass
NVNT	3-DH5	2441	Ant1	1.288	0	Pass
NVNT	3-DH5	2480	Ant1	1.294	0	Pass

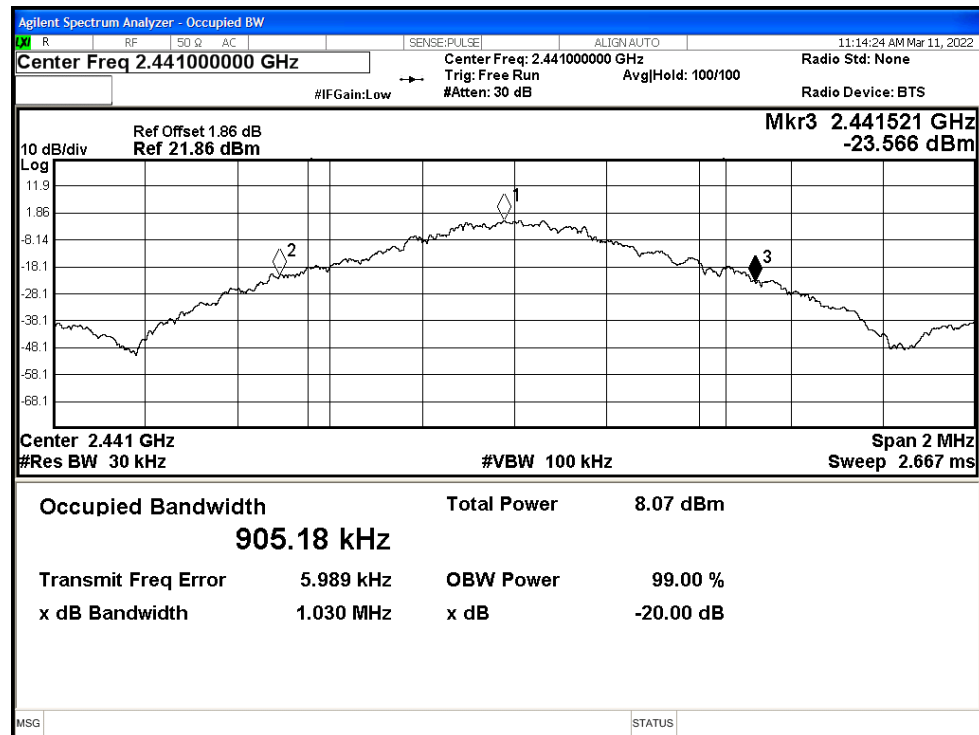


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

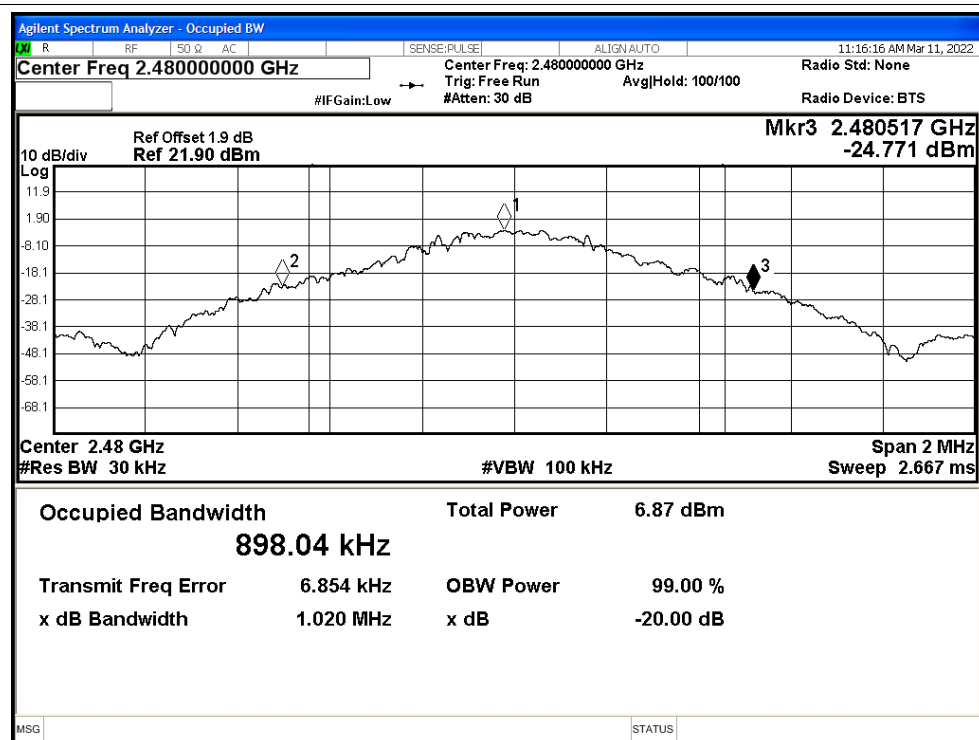


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

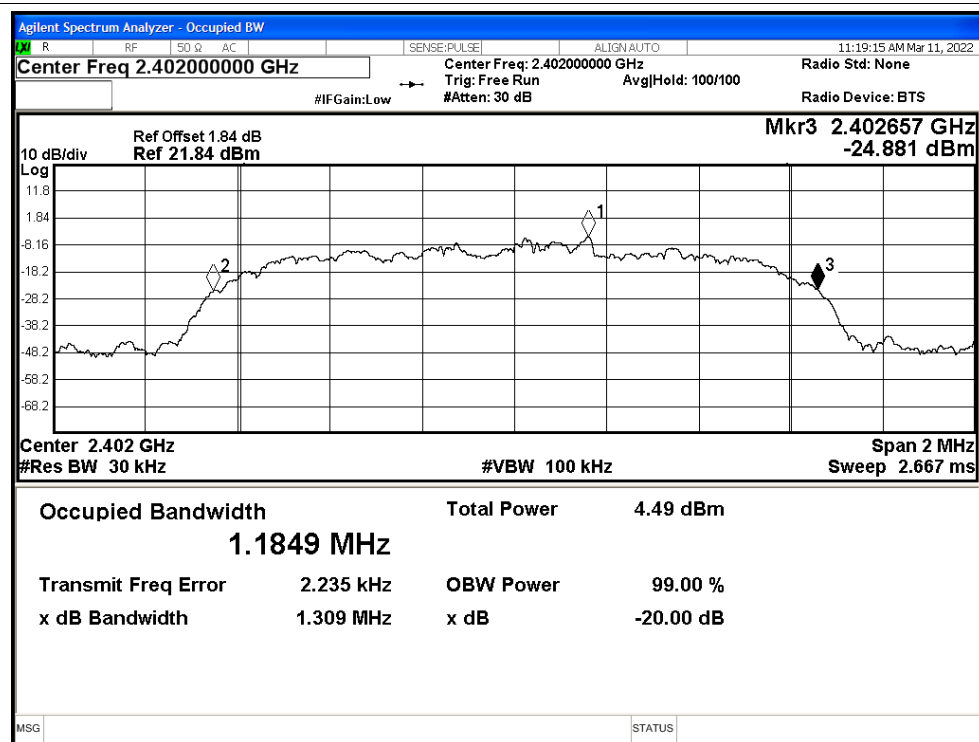




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

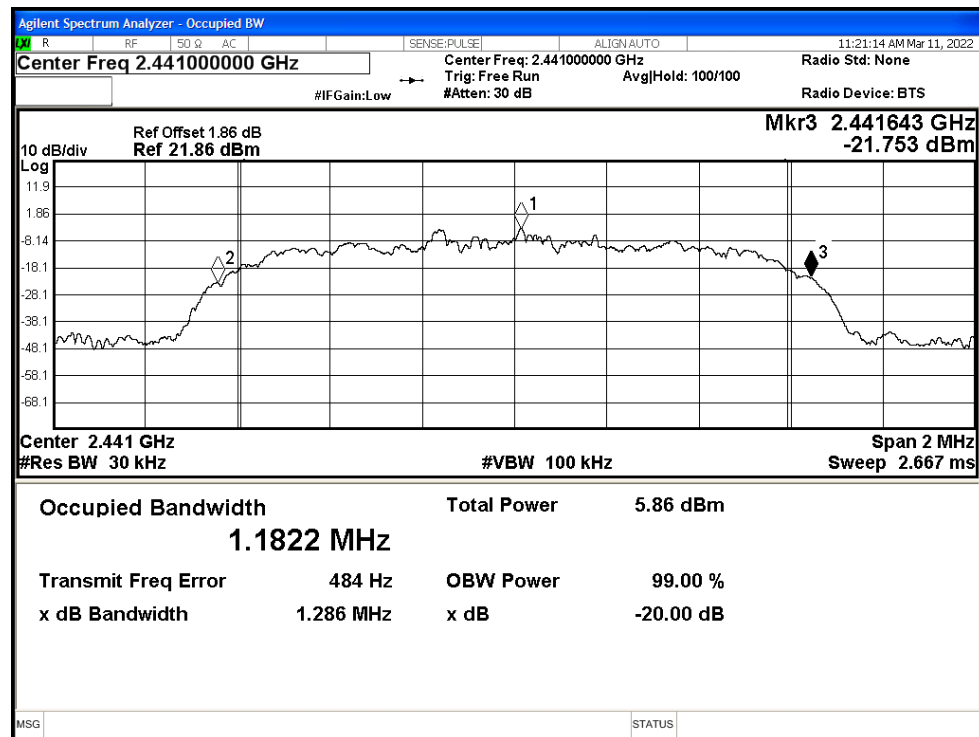


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

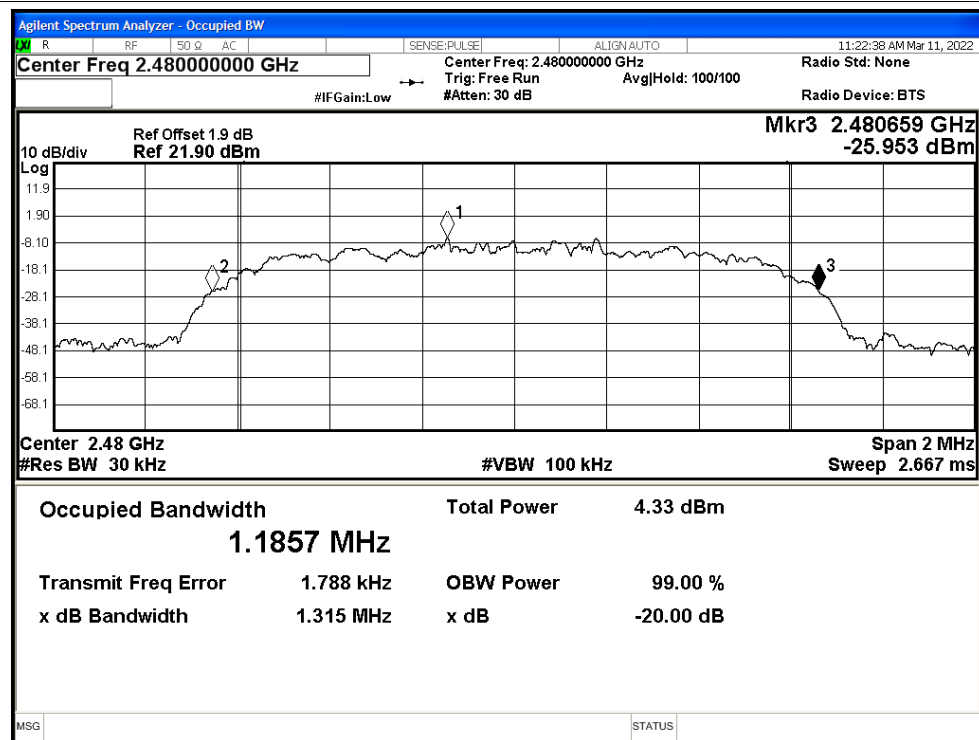




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

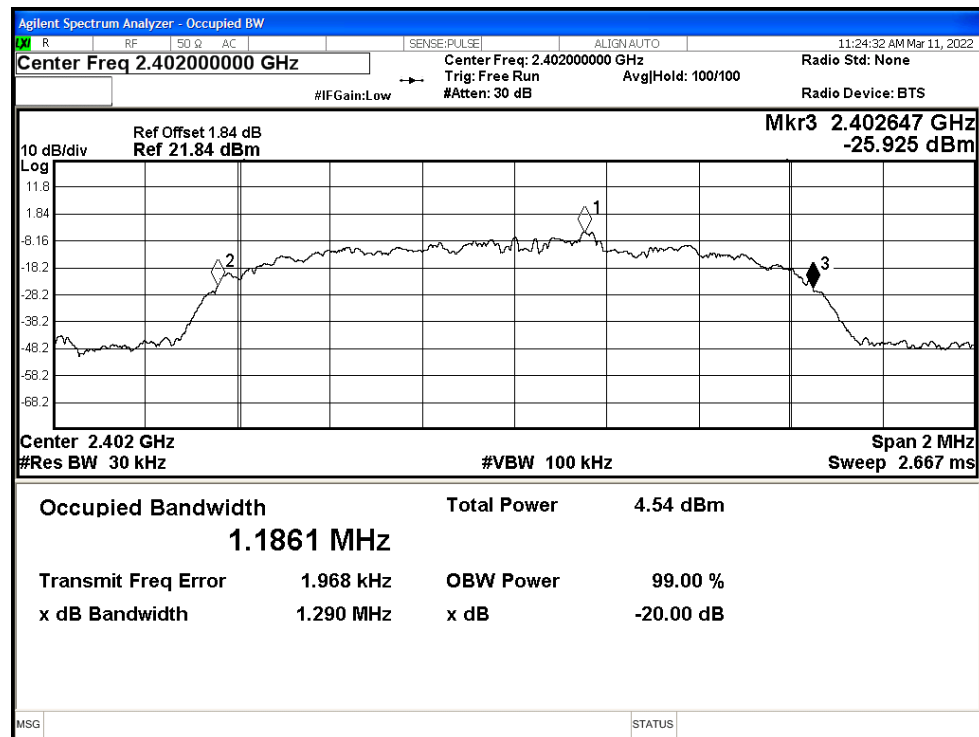


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

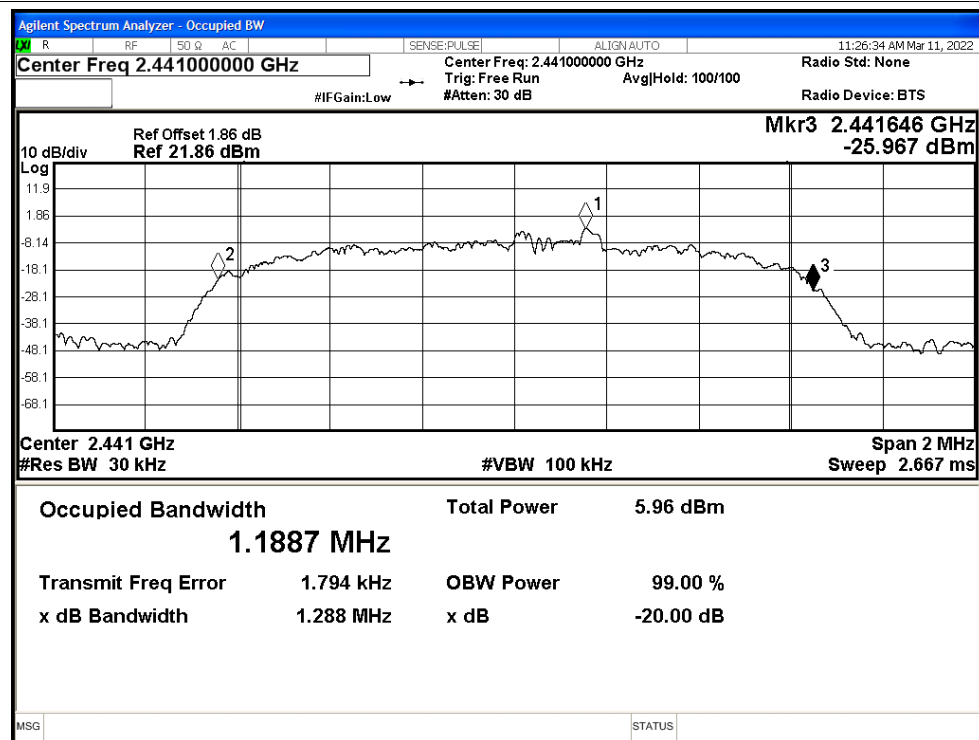




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

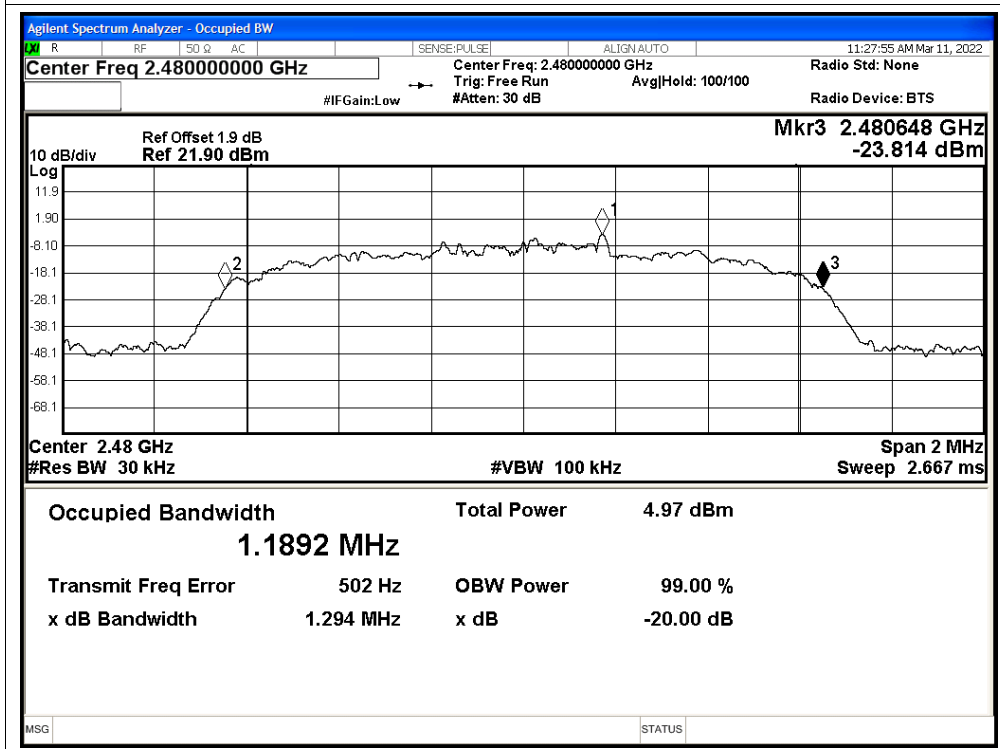


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





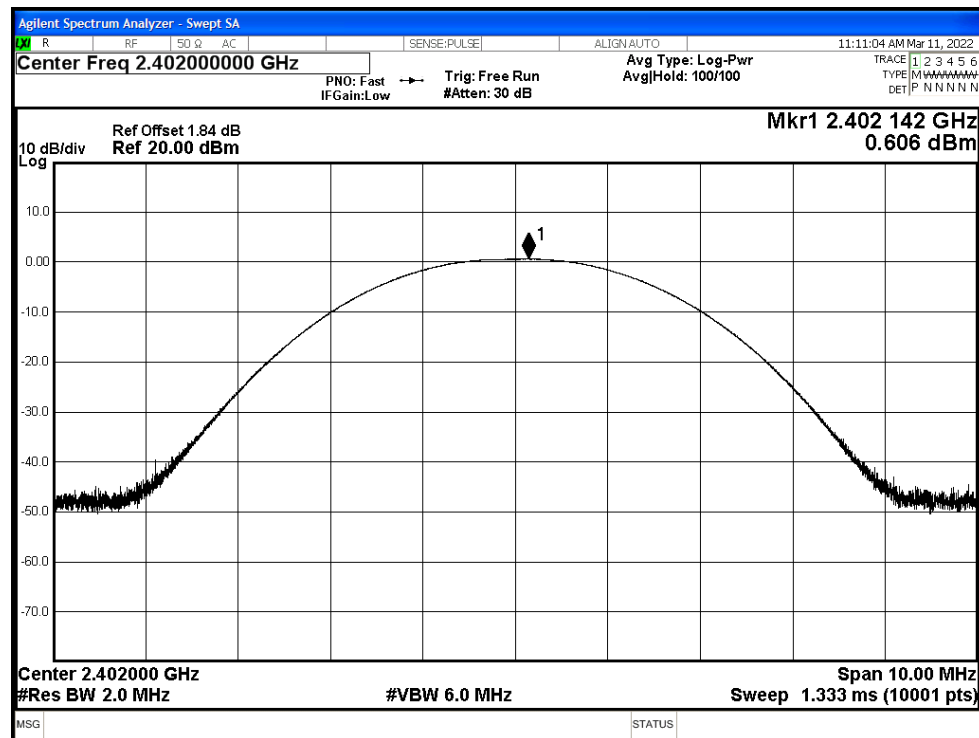
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.61	0	0.61	21	Pass
NVNT	1-DH5	2441	Ant1	1.93	0	1.93	21	Pass
NVNT	1-DH5	2480	Ant1	0.5	0	0.5	21	Pass
NVNT	2-DH5	2402	Ant1	-0.3	0	-0.3	21	Pass
NVNT	2-DH5	2441	Ant1	1.09	0	1.09	21	Pass
NVNT	2-DH5	2480	Ant1	-0.31	0	-0.31	21	Pass
NVNT	3-DH5	2402	Ant1	-0.16	0	-0.16	21	Pass
NVNT	3-DH5	2441	Ant1	1.21	0	1.21	21	Pass
NVNT	3-DH5	2480	Ant1	-0.14	0	-0.14	21	Pass

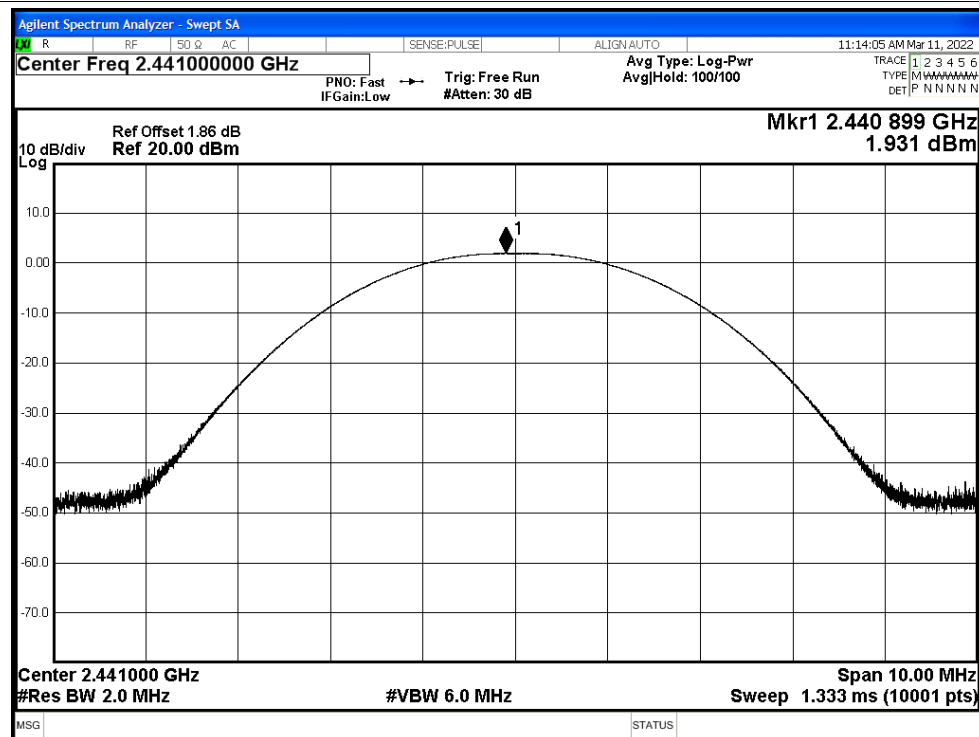


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

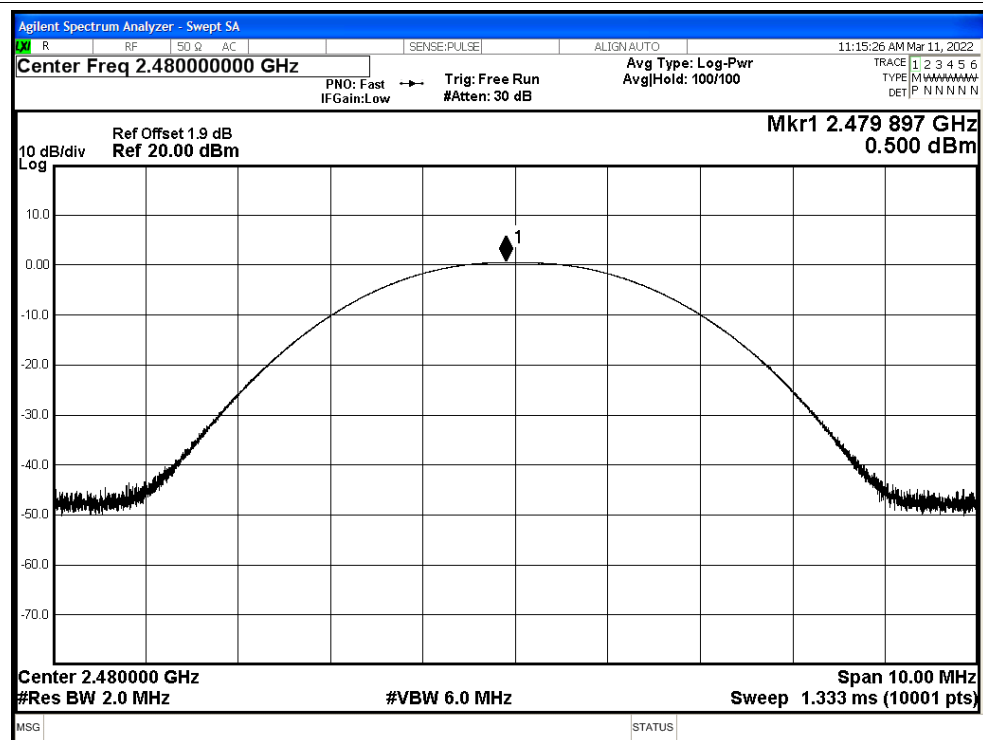


Power NVNT 1-DH5 2441MHz Ant1

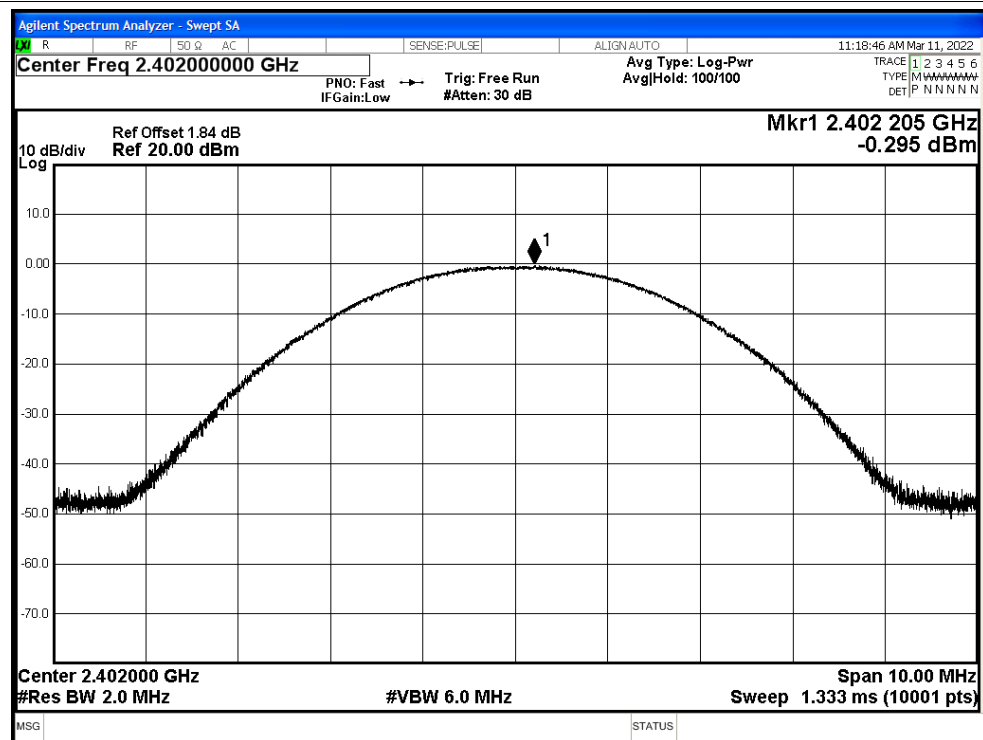




Power NVNT 1-DH5 2480MHz Ant1

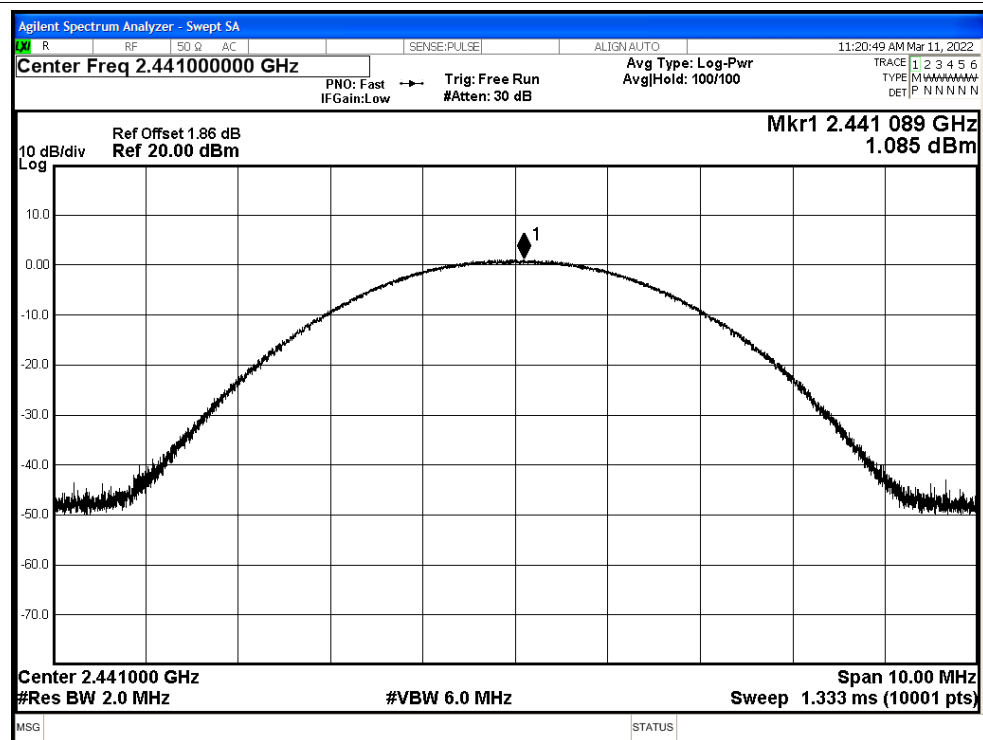


Power NVNT 2-DH5 2402MHz Ant1

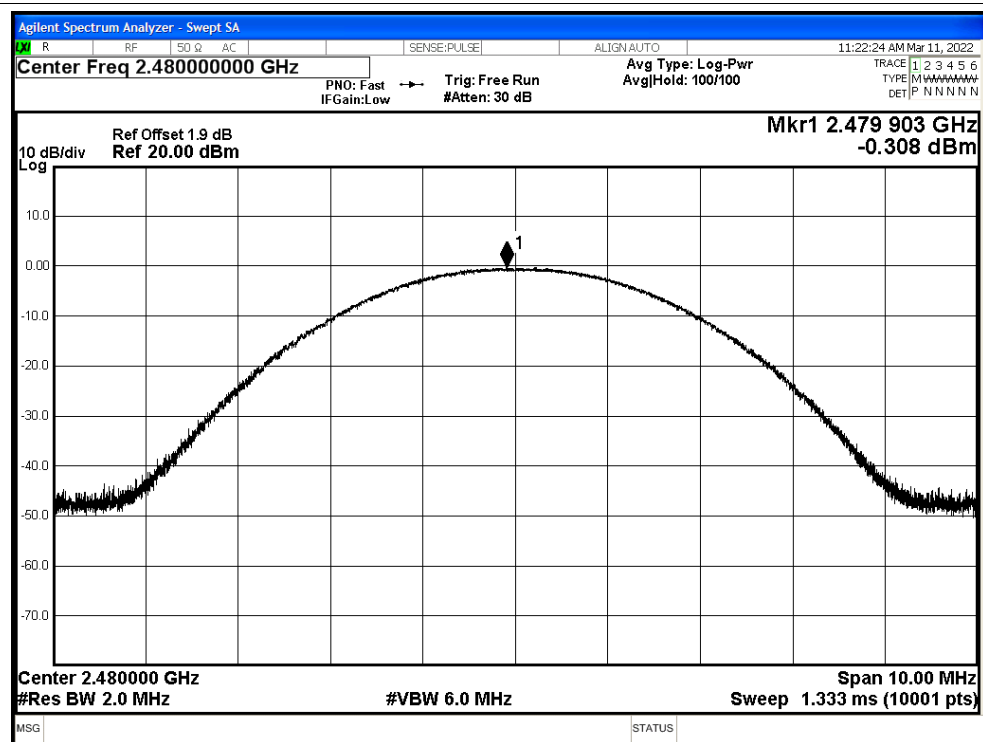




Power NVNT 2-DH5 2441MHz Ant1

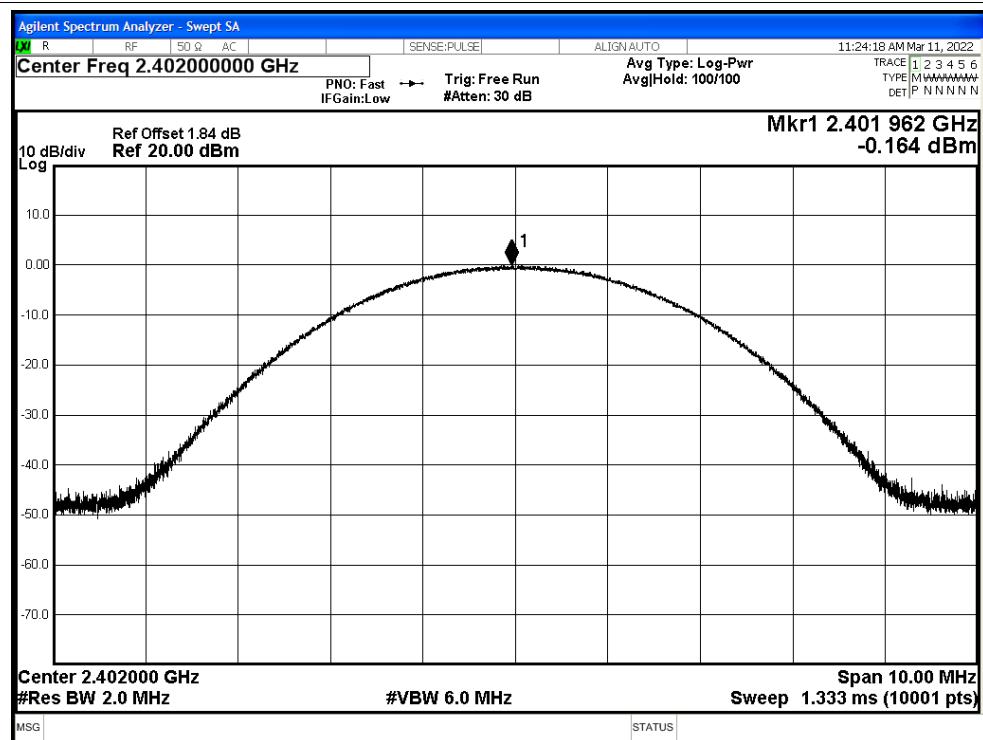


Power NVNT 2-DH5 2480MHz Ant1

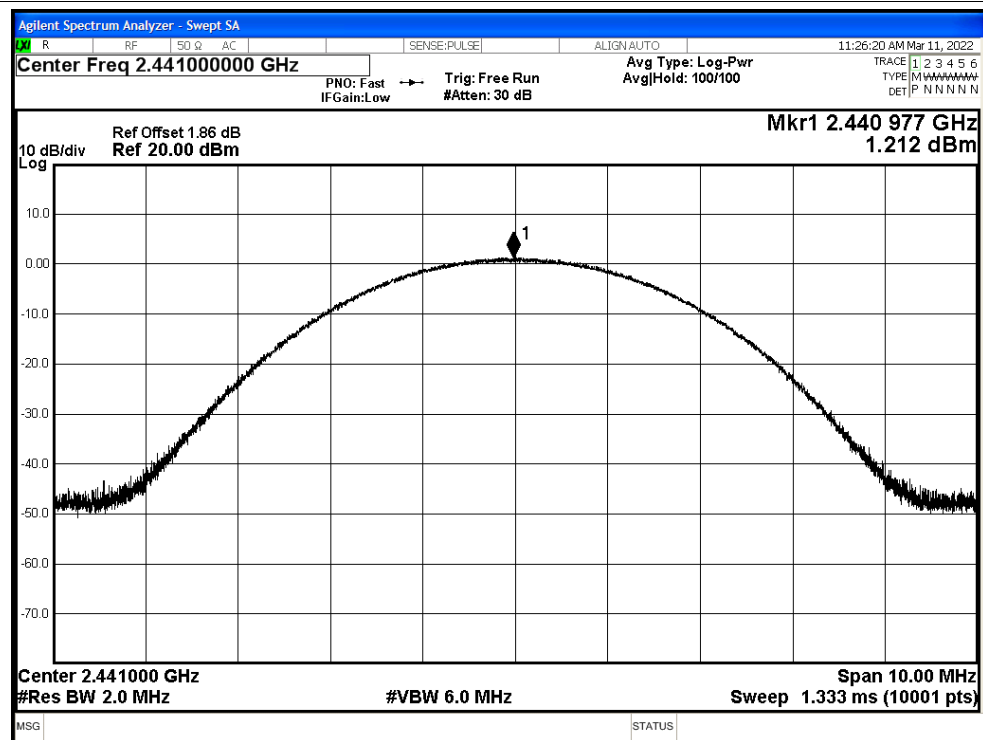


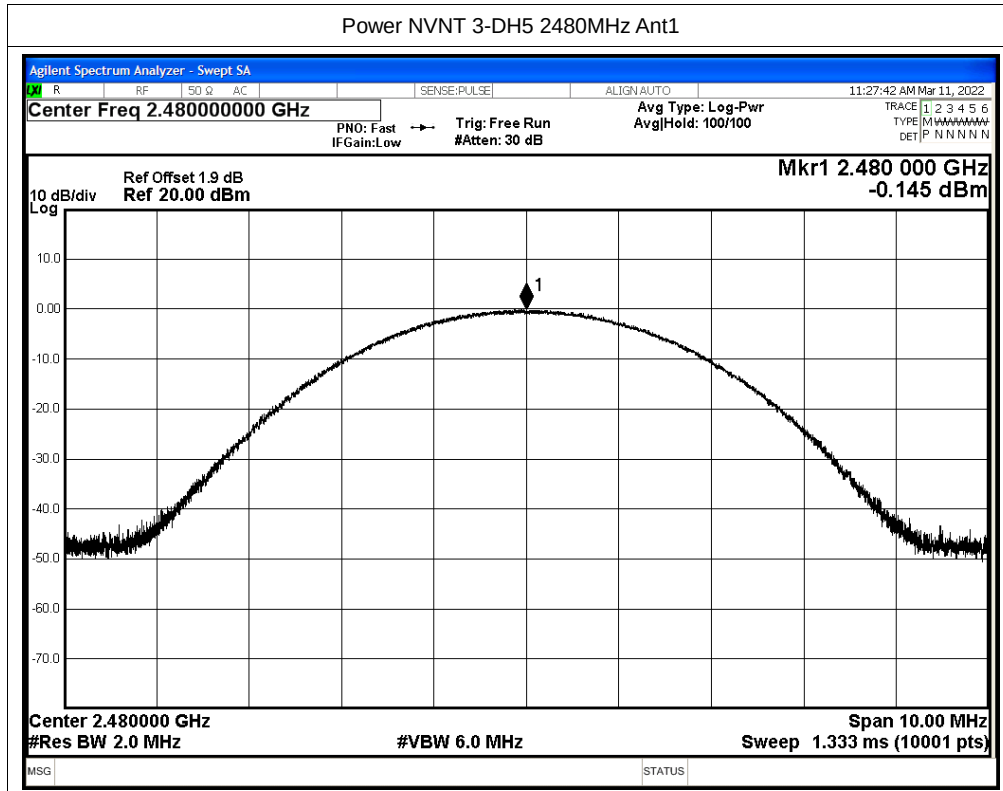


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







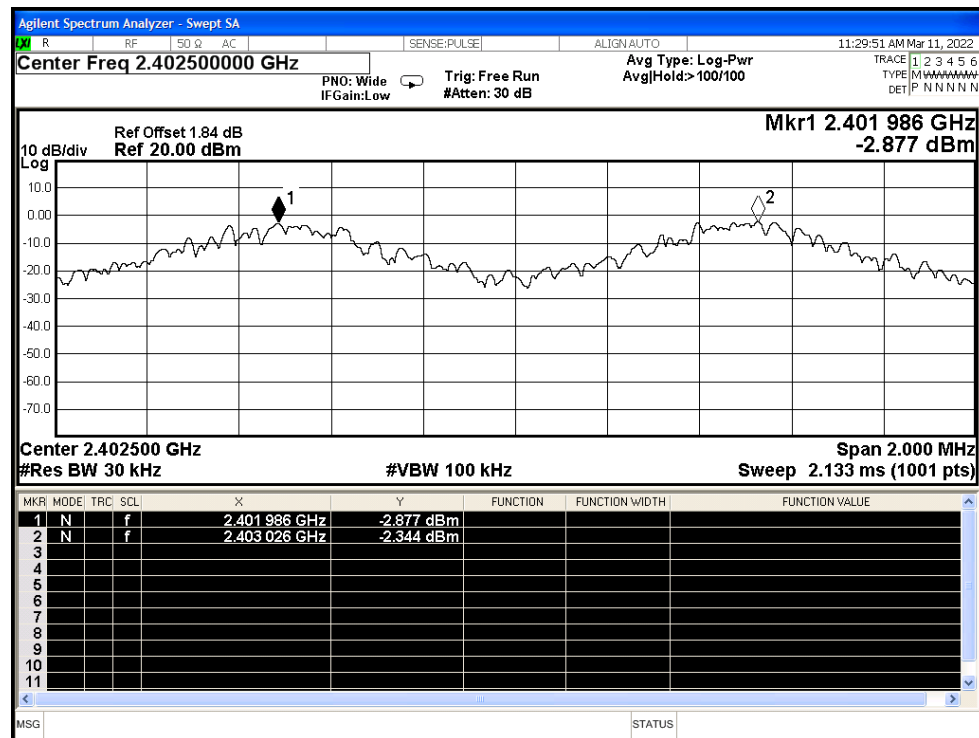
A.3 Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.986	2403.026	1.04	0.689	Pass
NVNT	1-DH5	Ant1	2441.014	2442.018	1.004	0.687	Pass
NVNT	1-DH5	Ant1	2478.98	2480	1.02	0.68	Pass
NVNT	2-DH5	Ant1	2402.076	2403.084	1.008	0.873	Pass
NVNT	2-DH5	Ant1	2440.83	2442.162	1.332	0.857	Pass
NVNT	2-DH5	Ant1	2478.846	2480.01	1.164	0.877	Pass
NVNT	3-DH5	Ant1	2401.83	2402.952	1.122	0.86	Pass
NVNT	3-DH5	Ant1	2441	2442.026	1.026	0.859	Pass
NVNT	3-DH5	Ant1	2479.17	2480.17	1	0.863	Pass

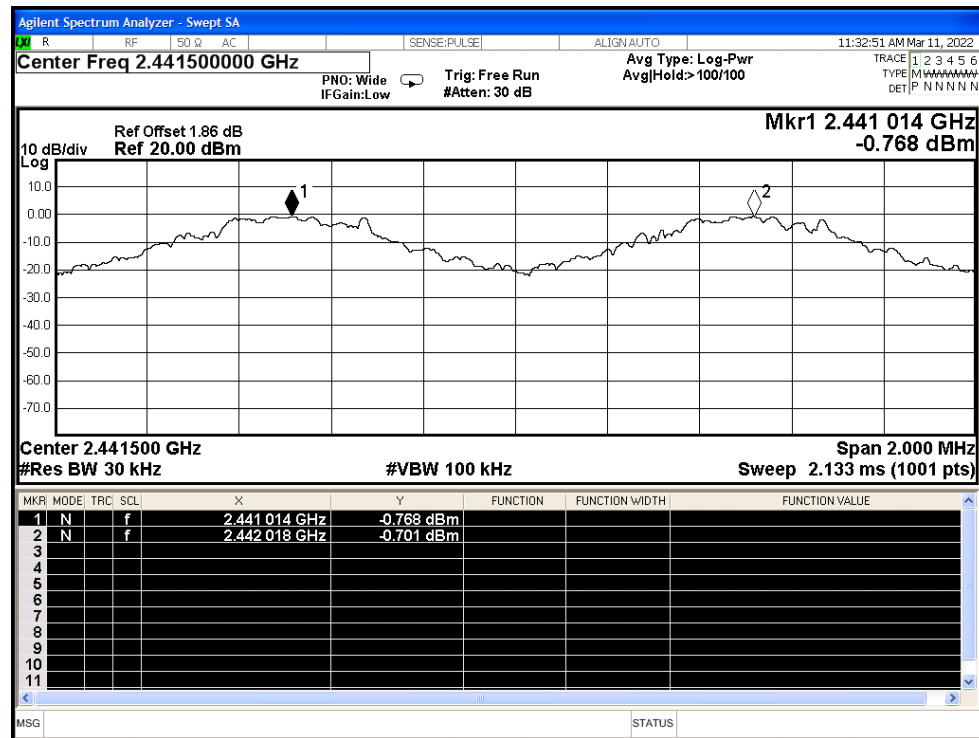


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 1-DH5 2441MHz Ant1

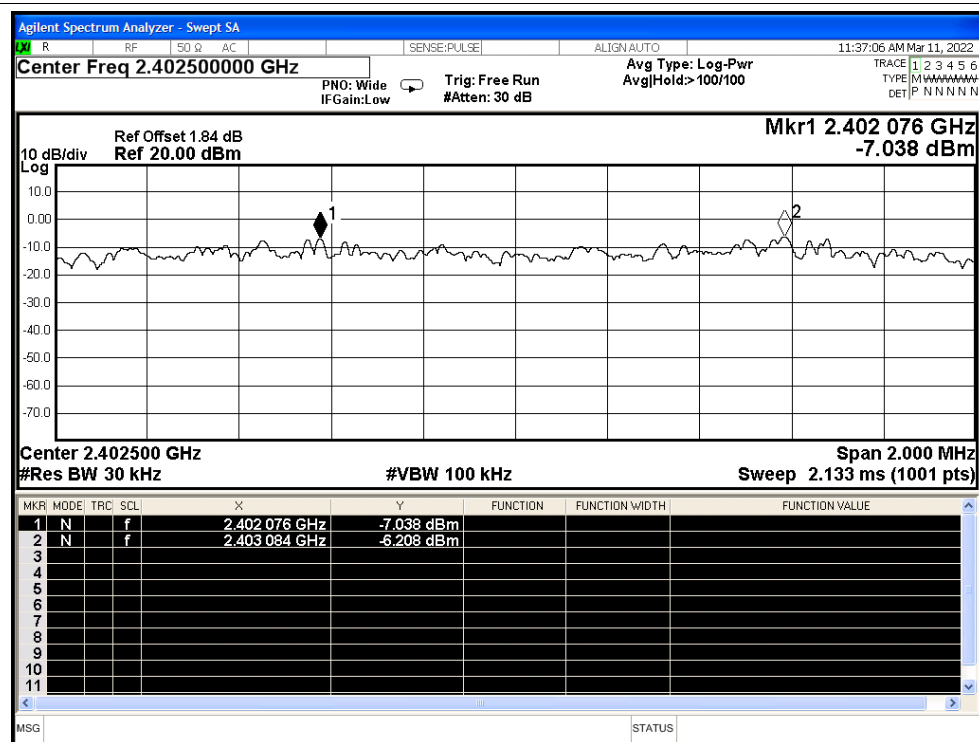




CFS NVNT 1-DH5 2480MHz Ant1

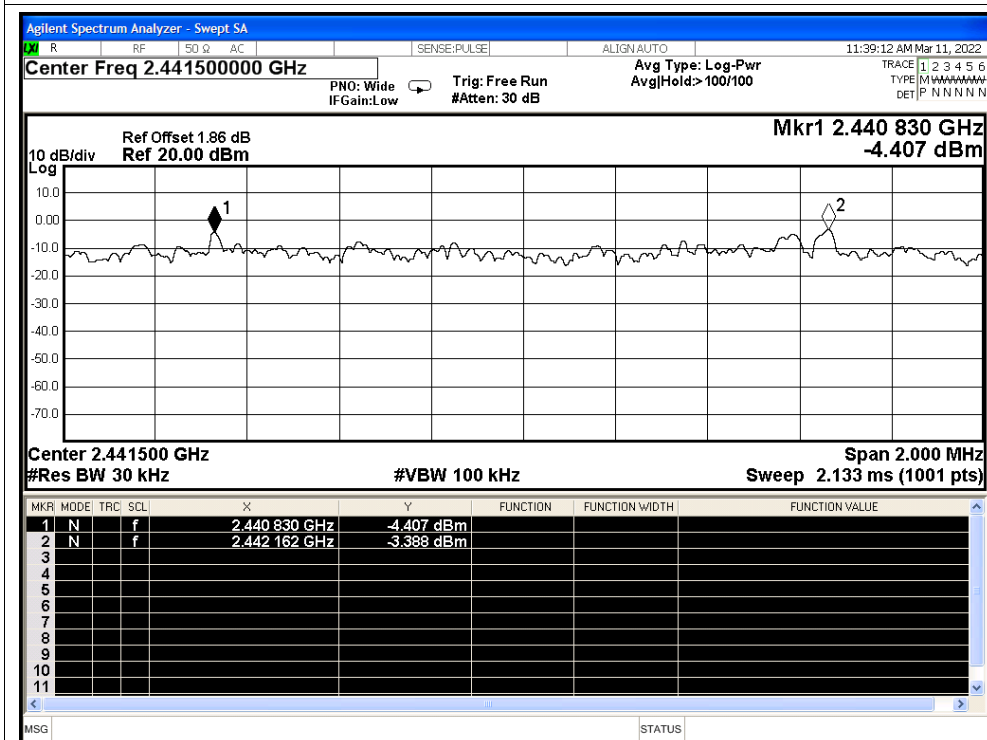


CFS NVNT 2-DH5 2402MHz Ant1

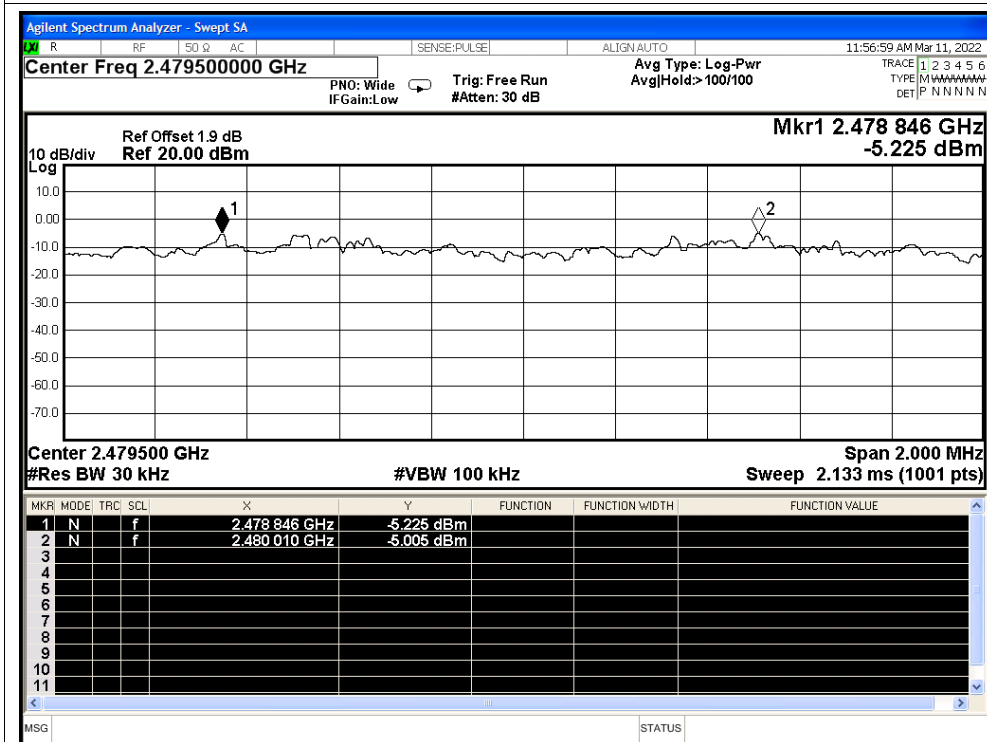




CFS NVNT 2-DH5 2441MHz Ant1

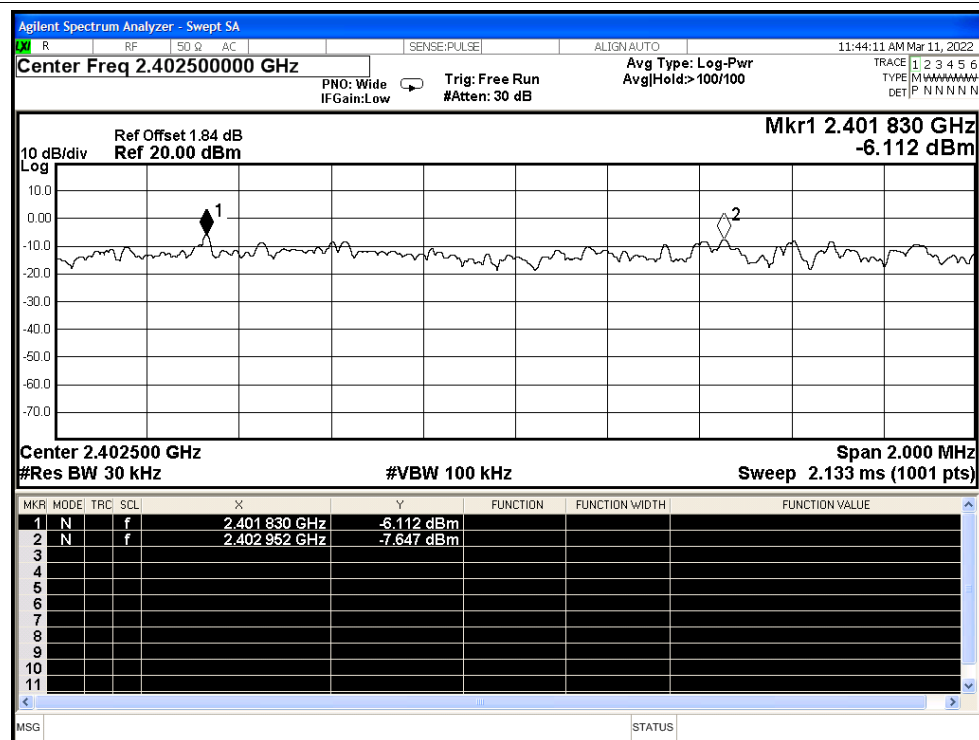


CFS NVNT 2-DH5 2480MHz Ant1

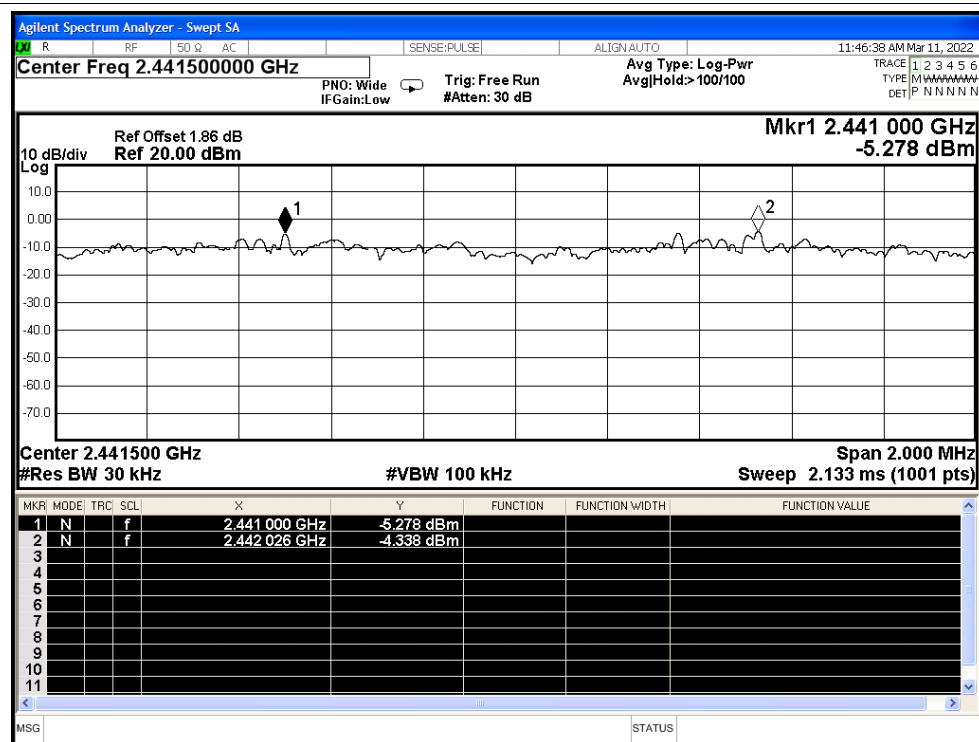


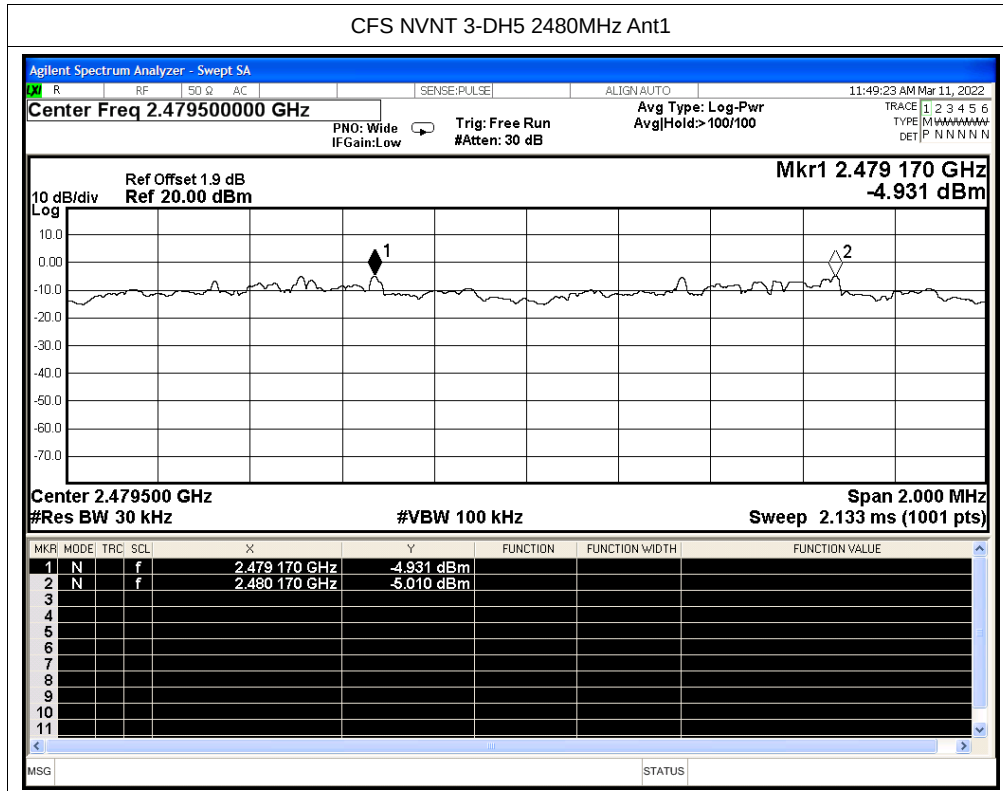


CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1







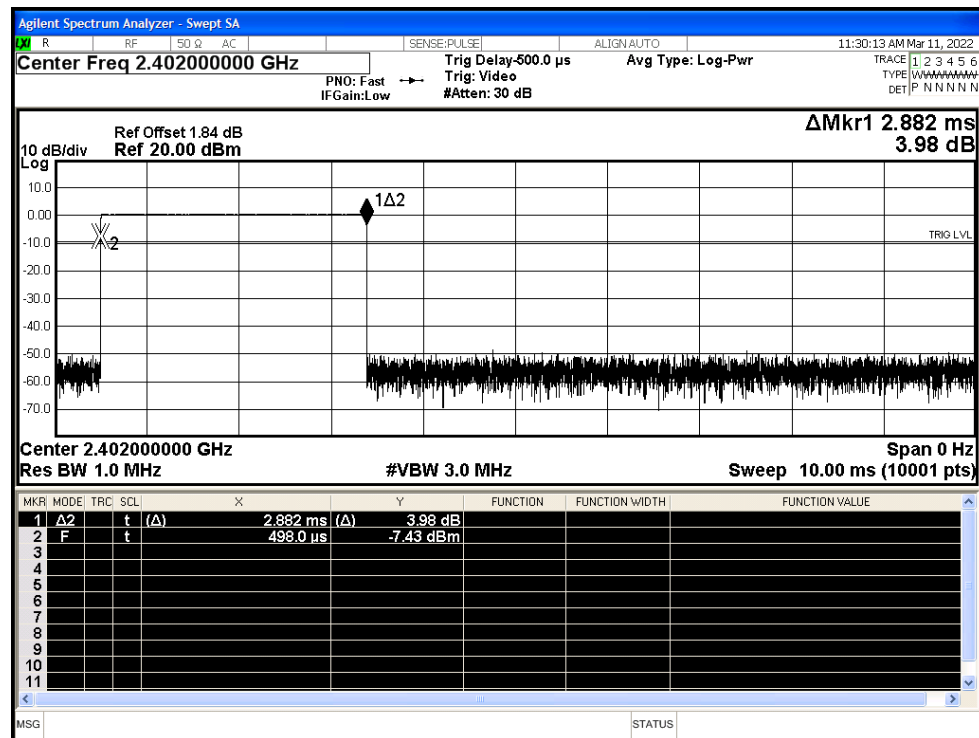
A.4 Dwell Time

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	262.262	91	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.881	311.148	108	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	299.728	104	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	311.58	108	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	305.81	106	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.883	325.779	113	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	277.056	96	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	311.796	108	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	294.474	102	31600	400	Pass

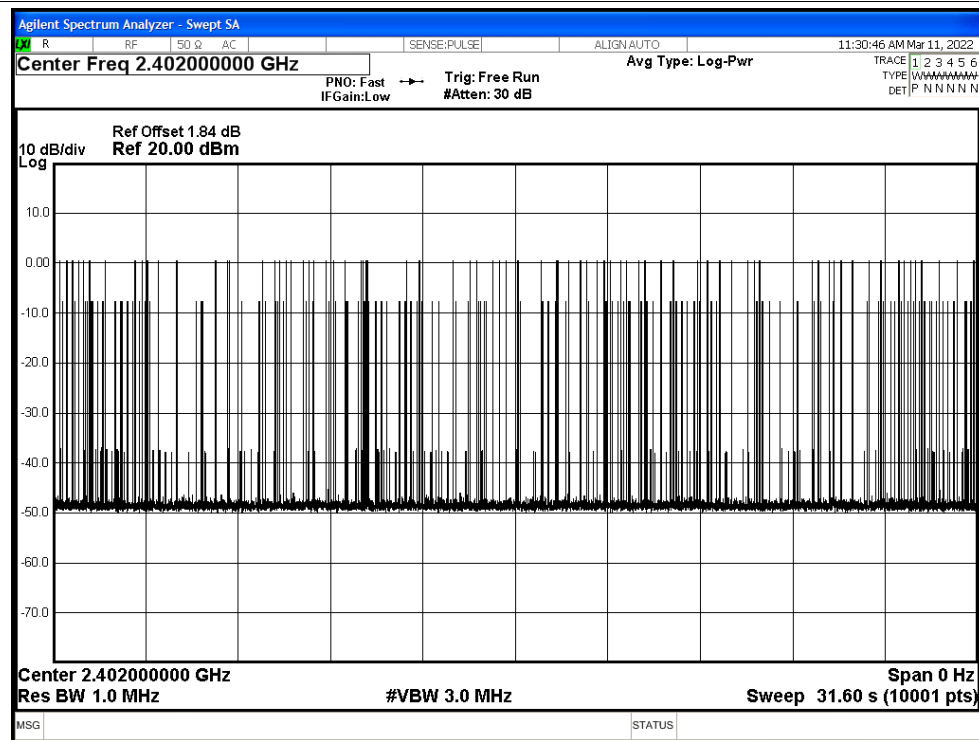


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

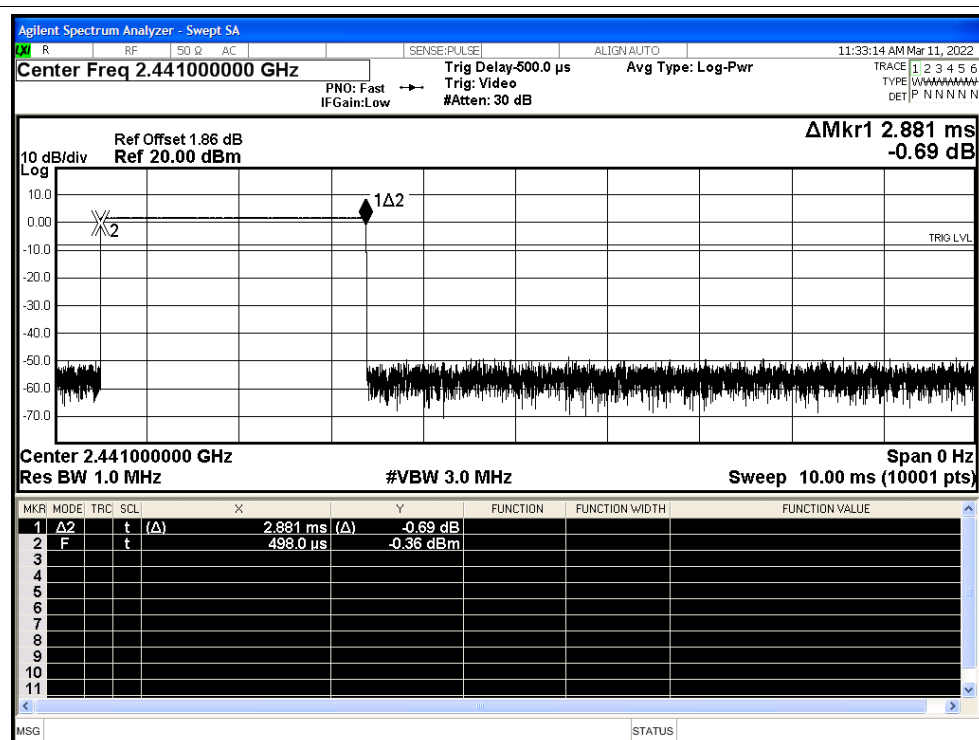


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

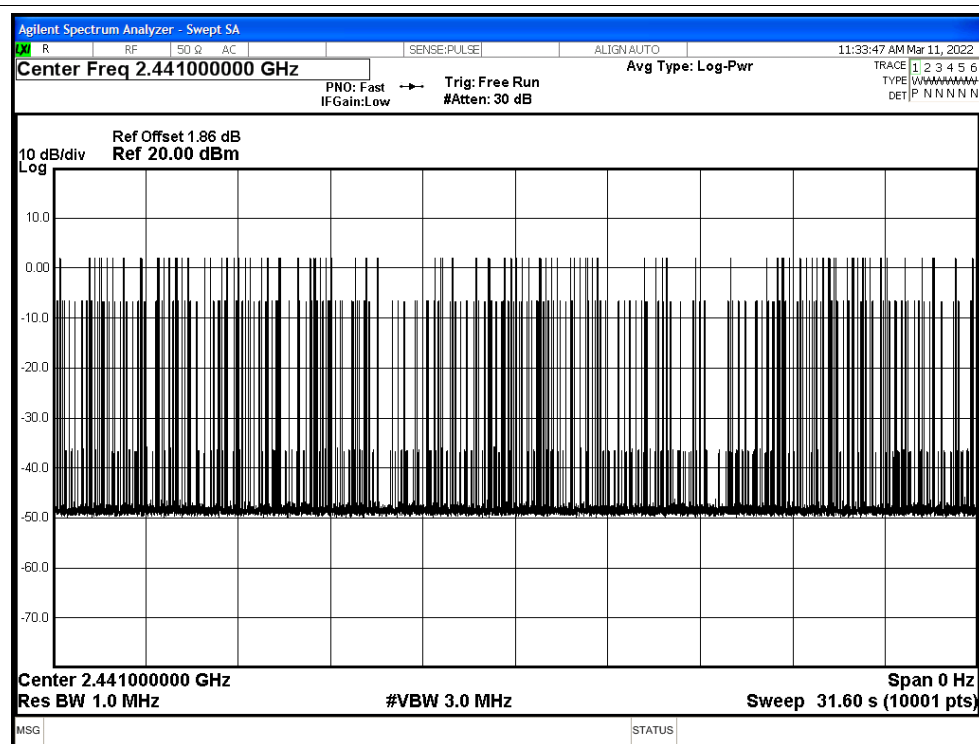




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

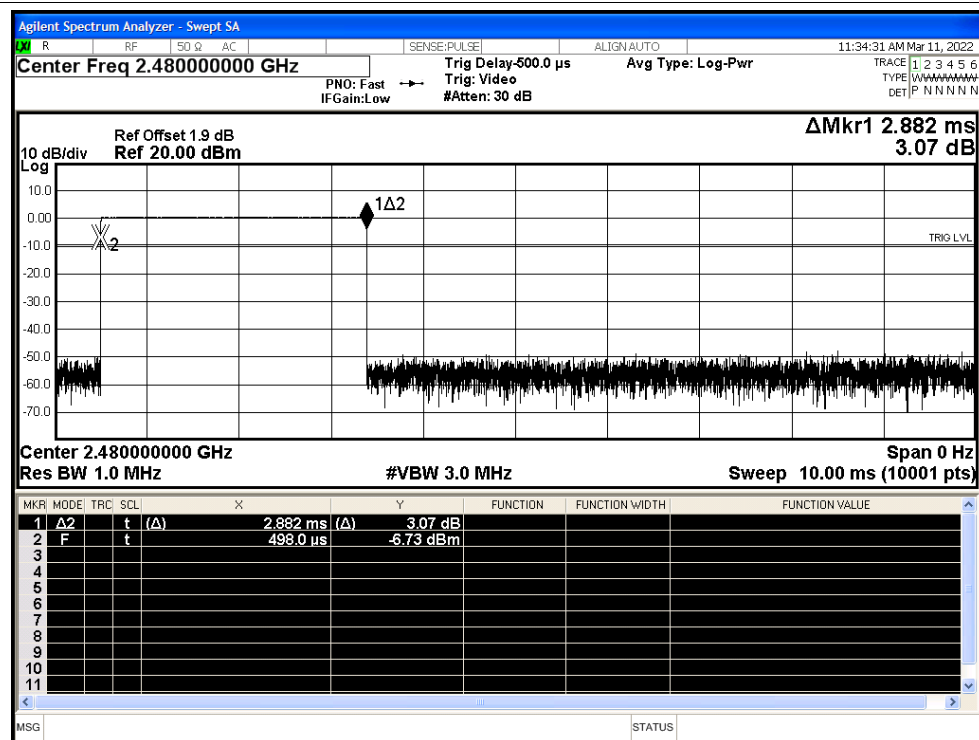


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

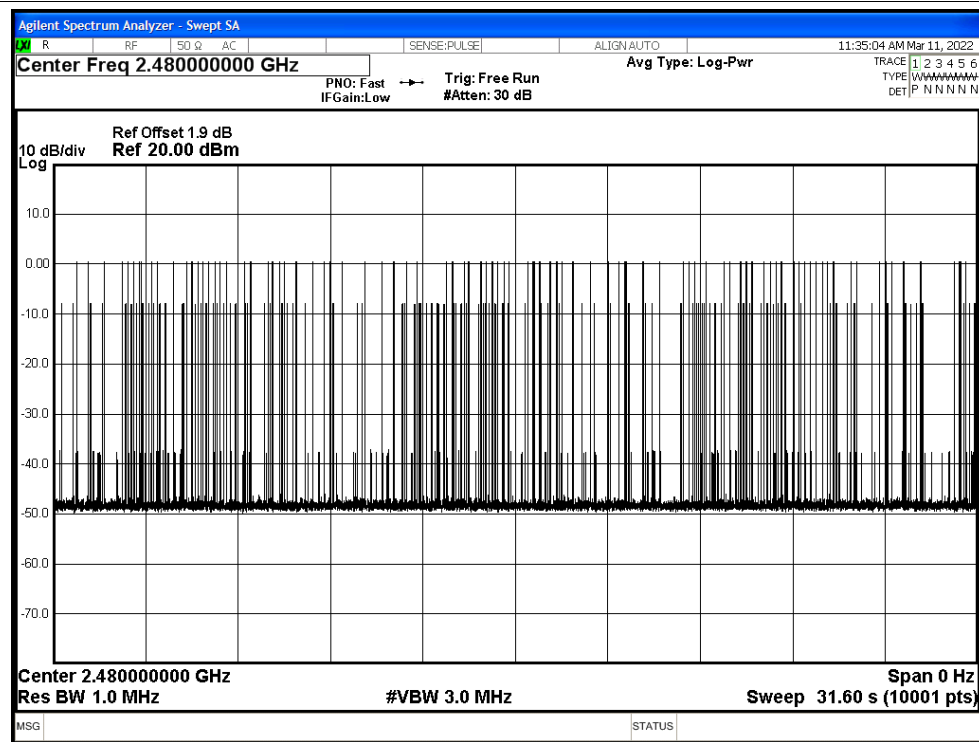




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

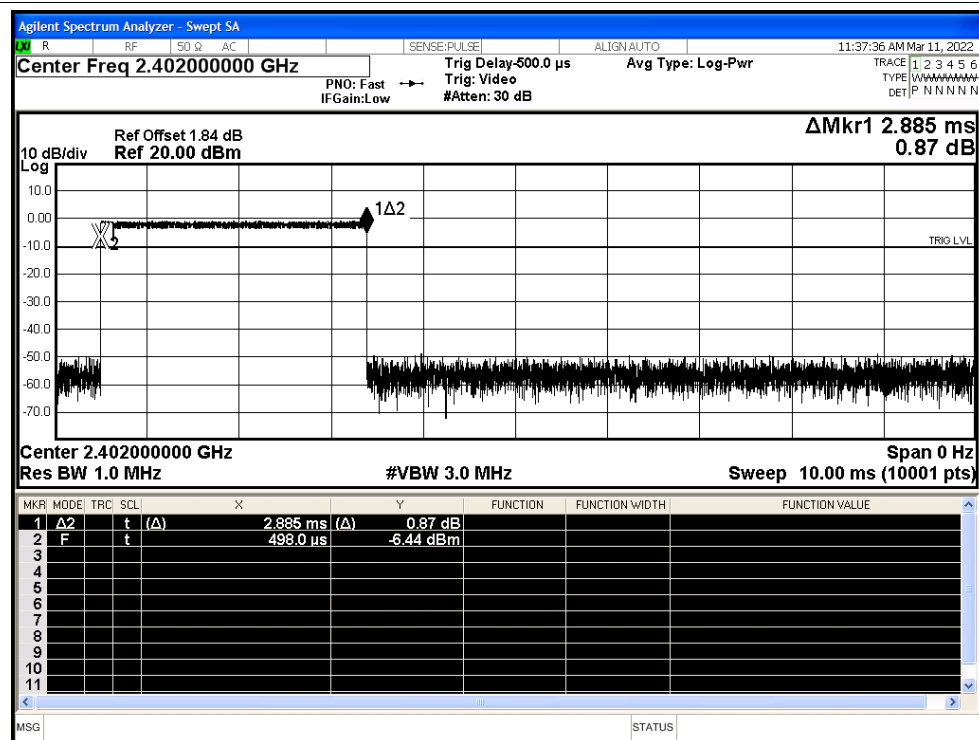


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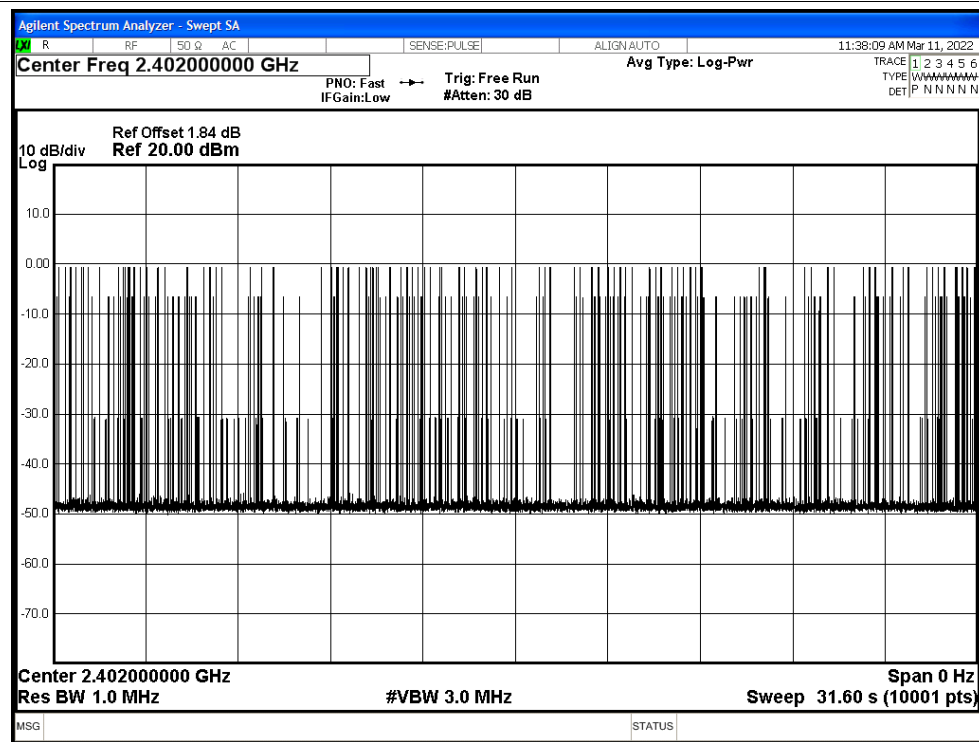




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

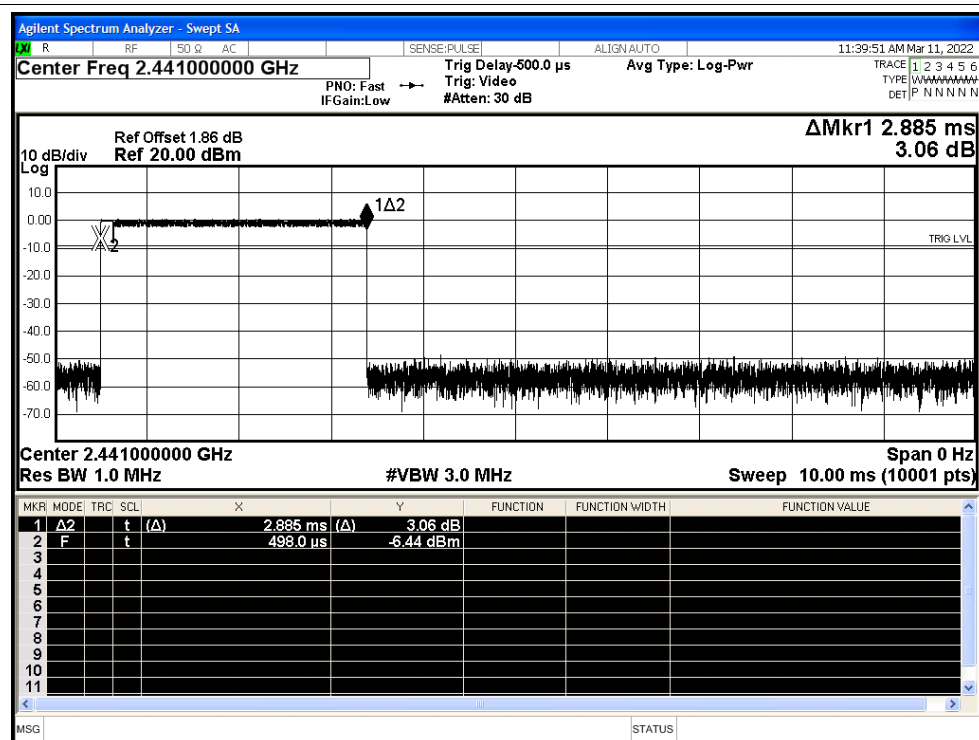


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

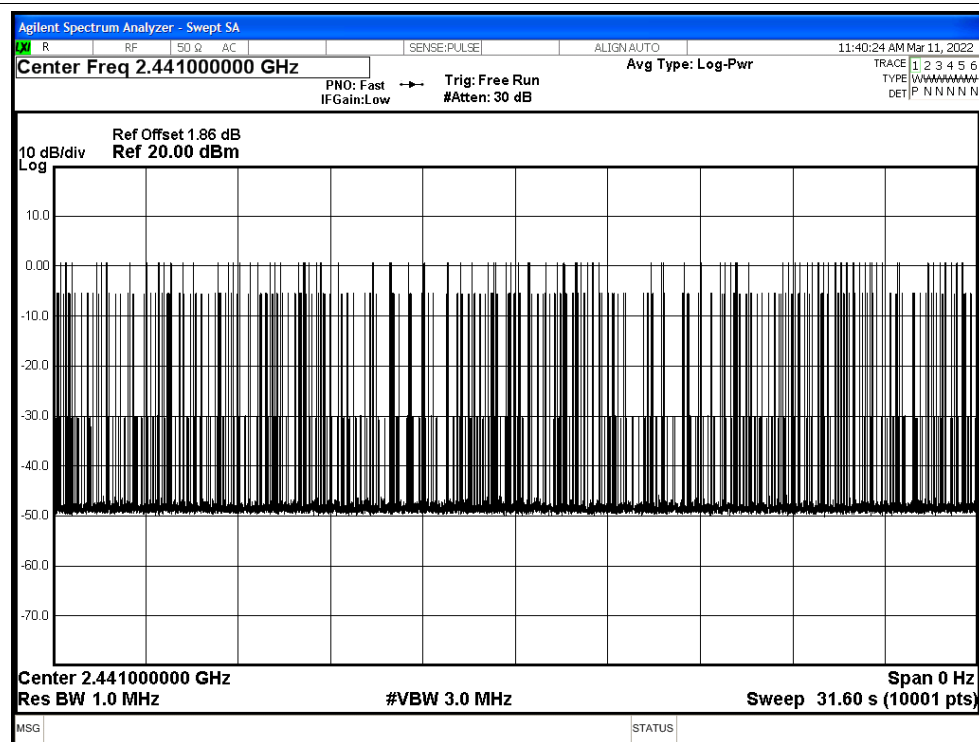




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

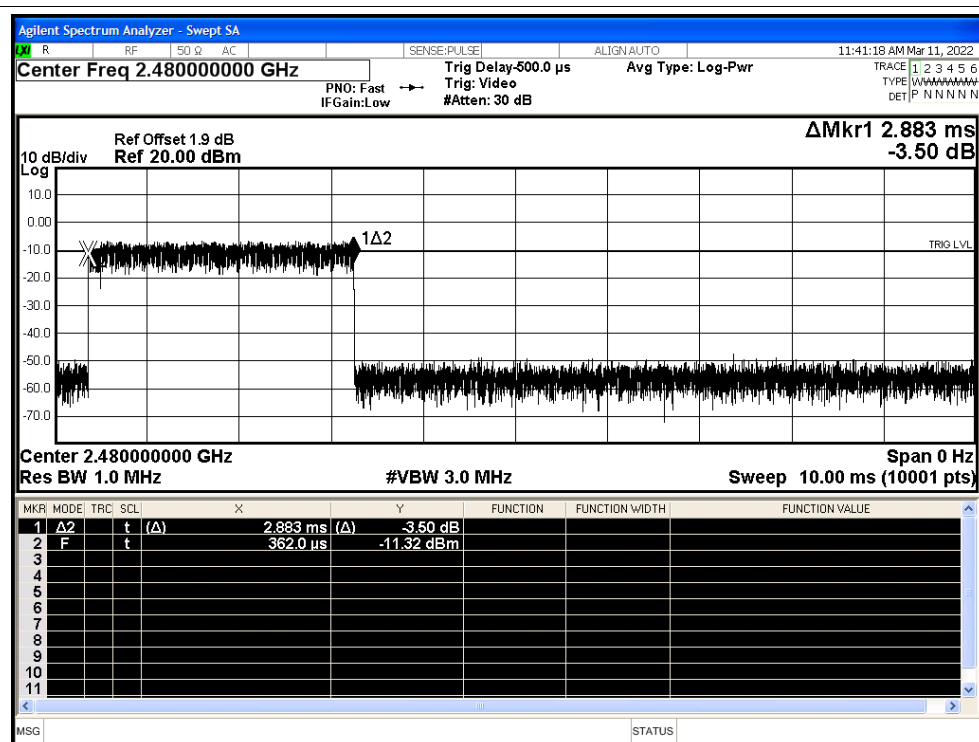


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

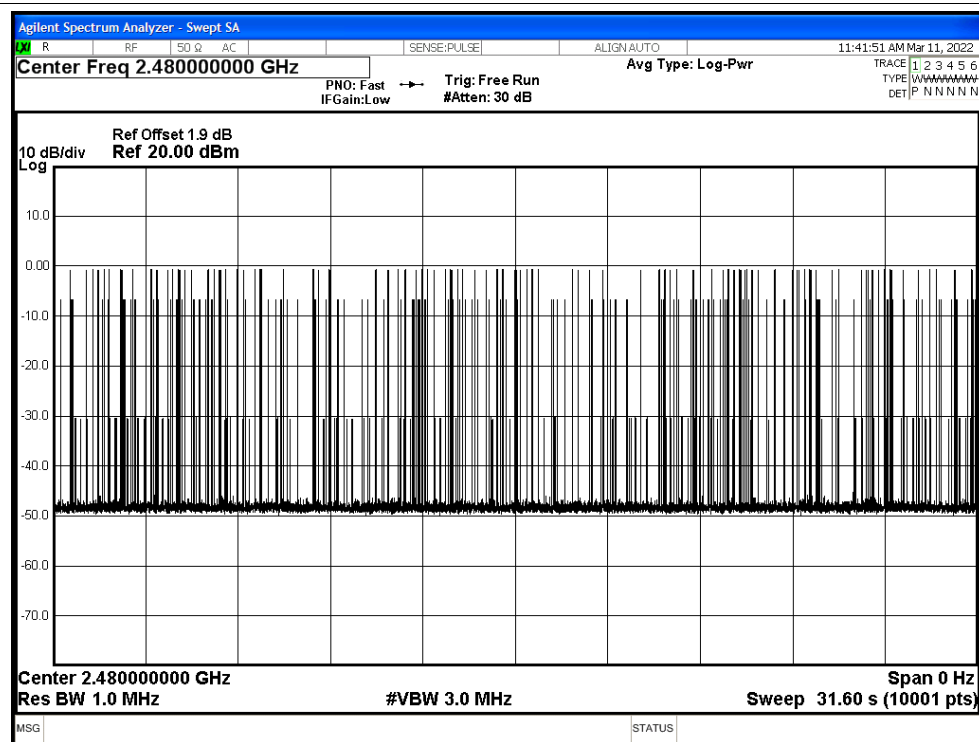




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

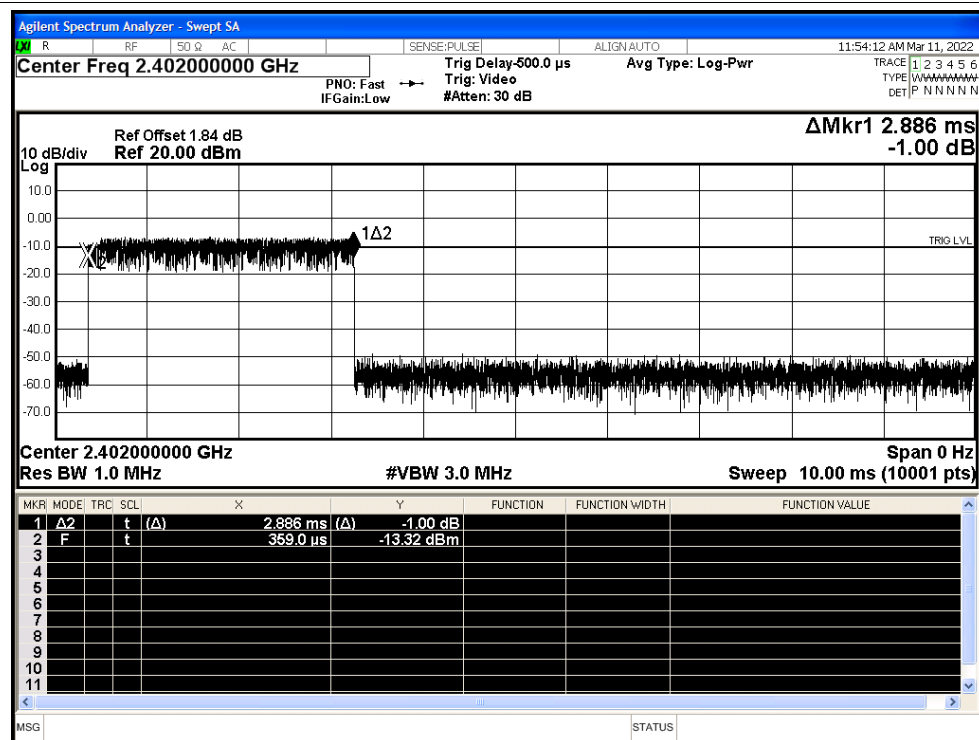


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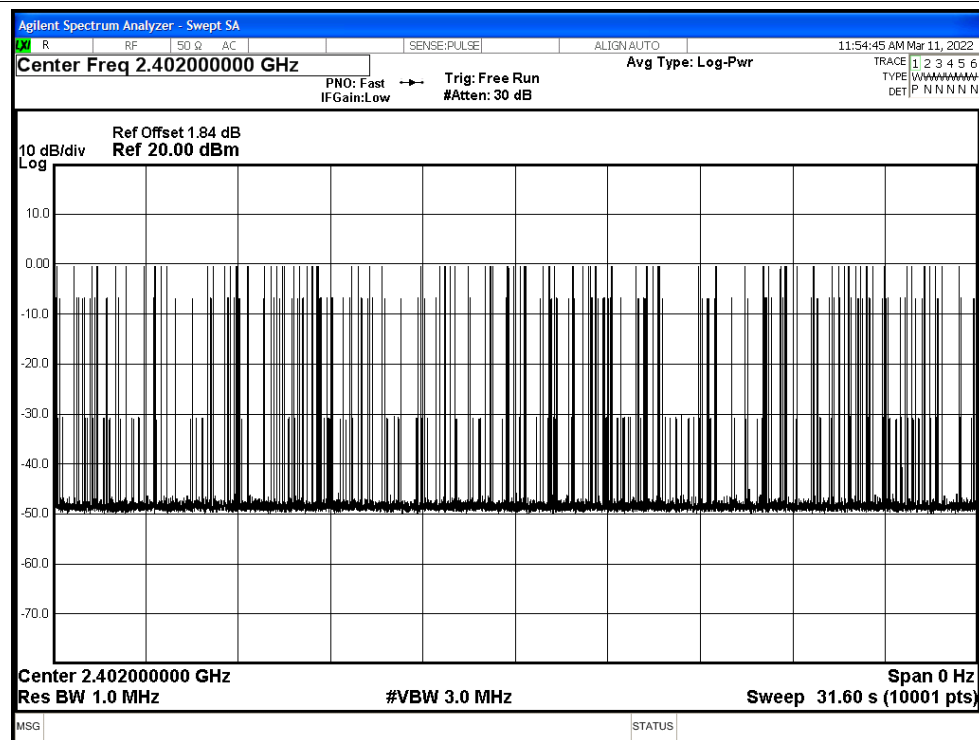




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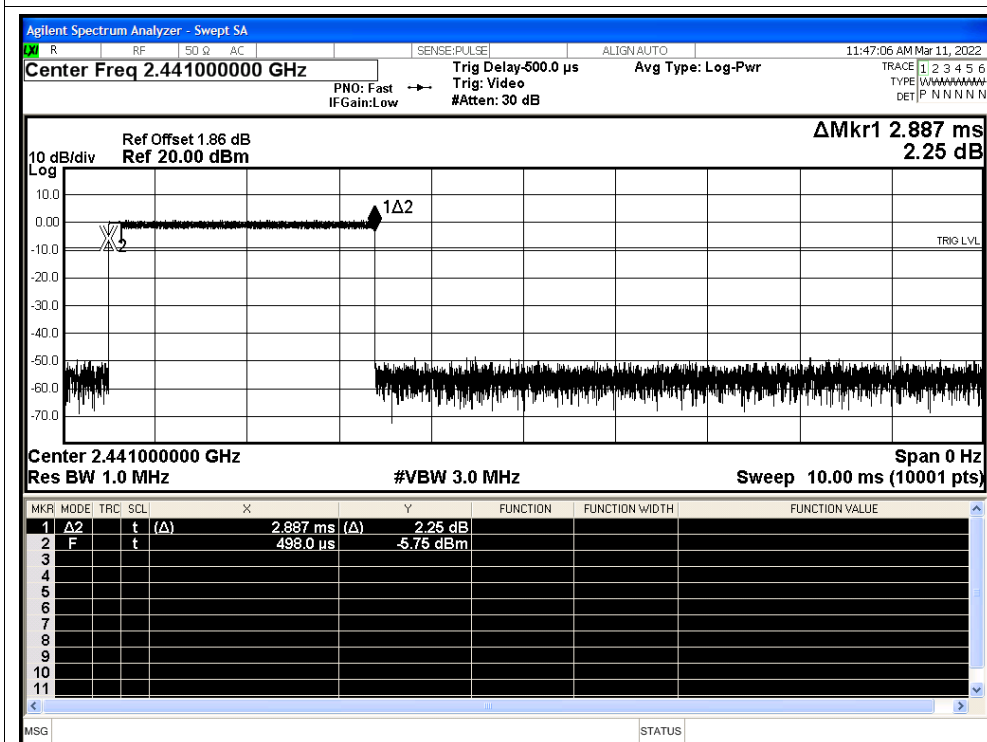


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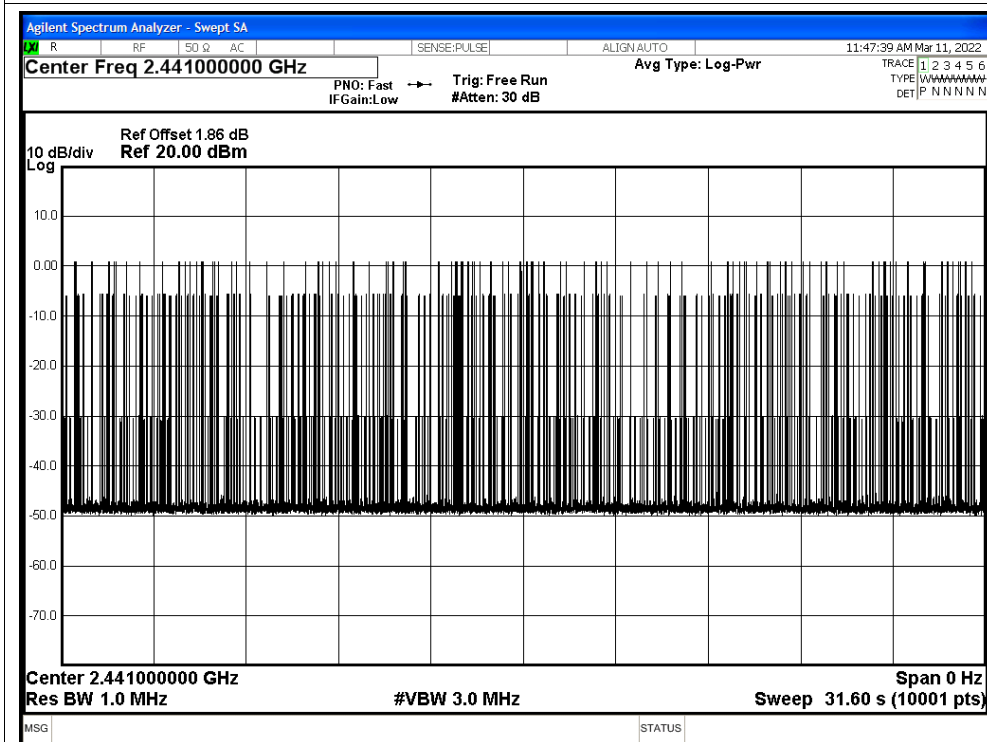




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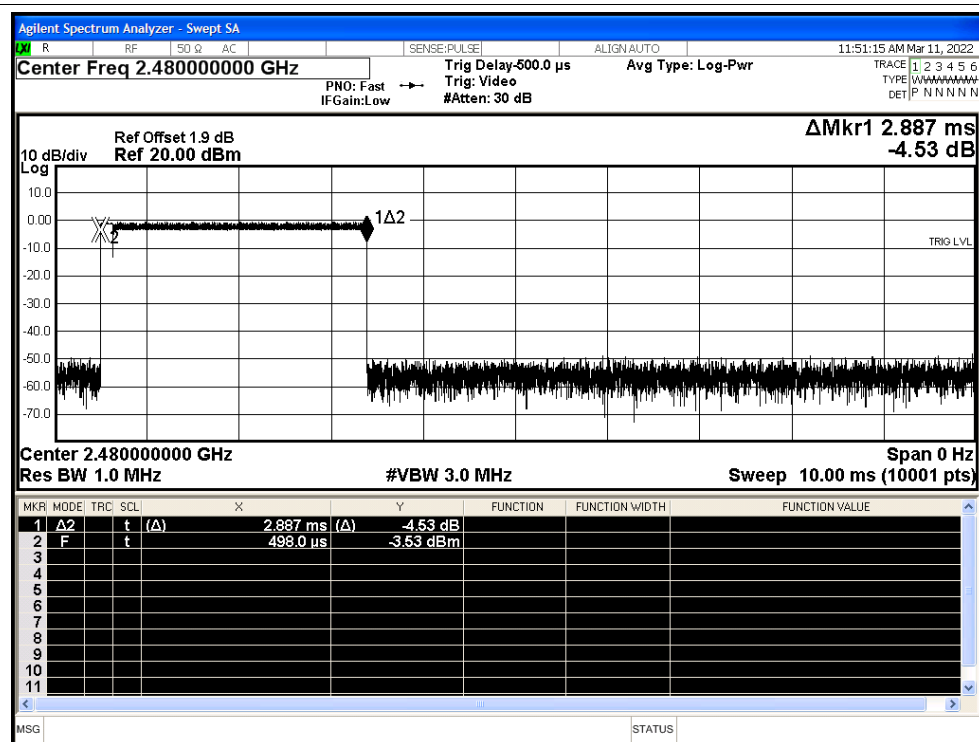


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

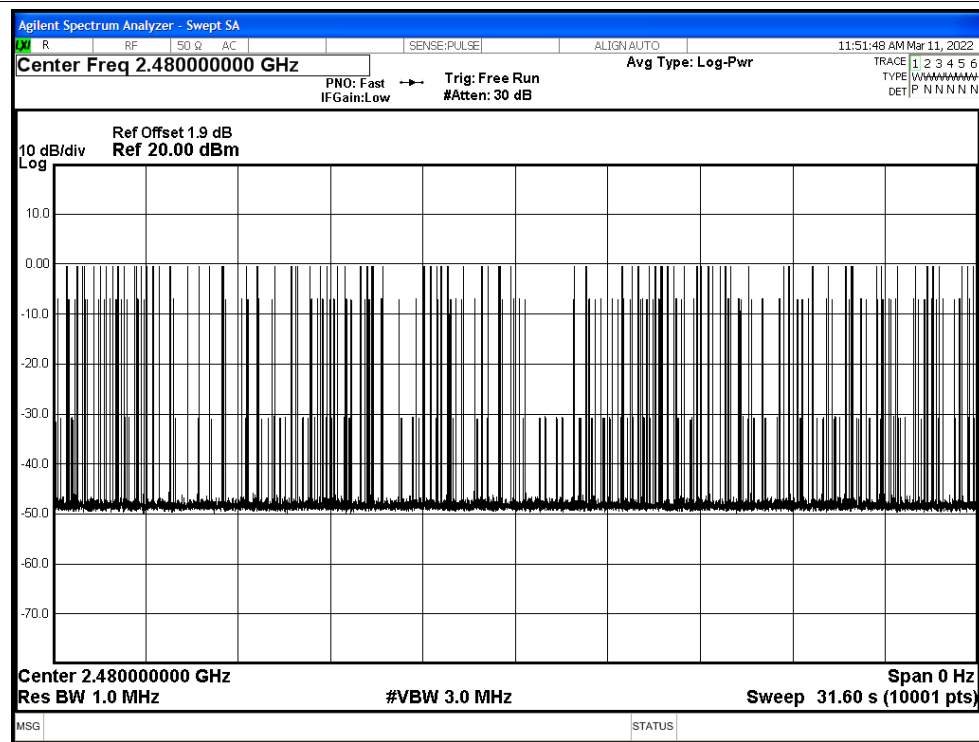




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated





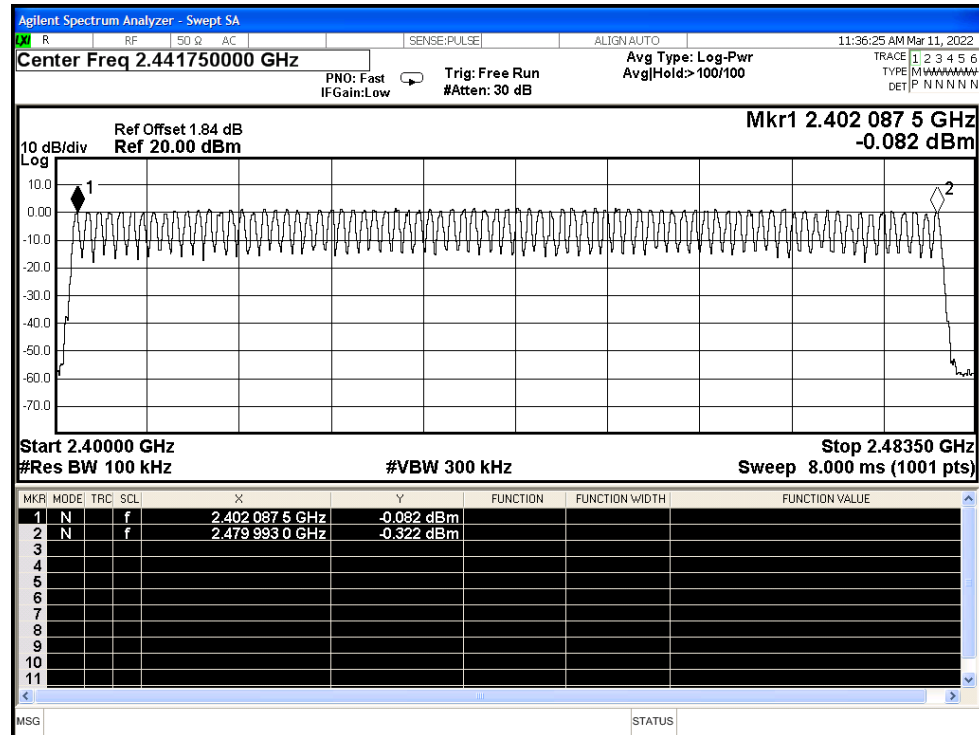
A.5 Number of Hopping Channel

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

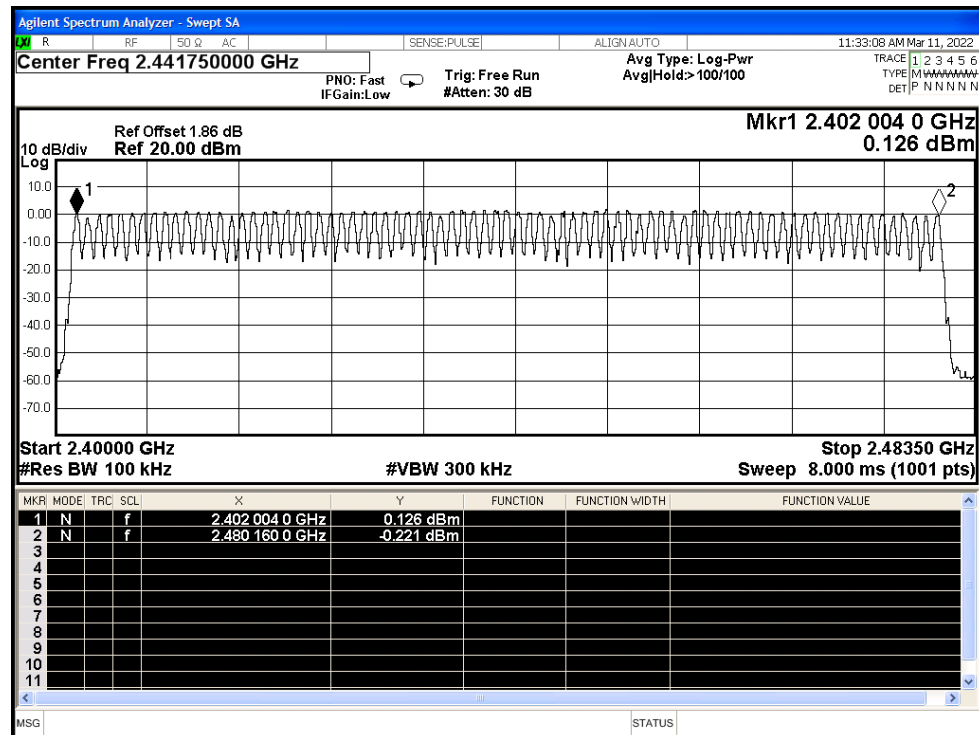


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

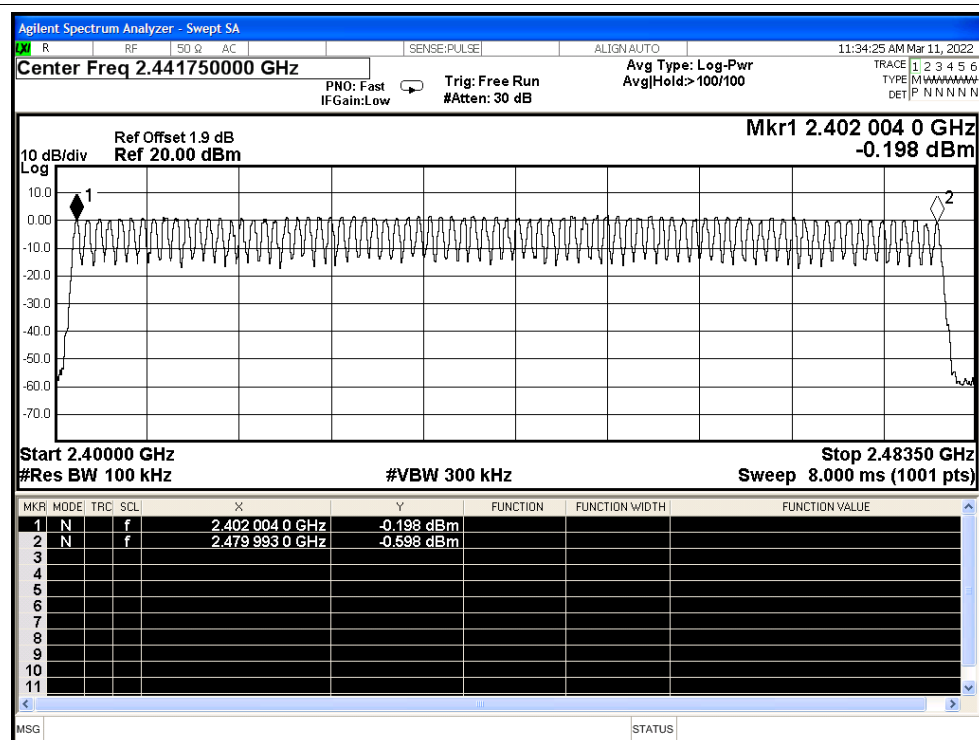


Hopping No. NVNT 1-DH5 2441MHz Ant1

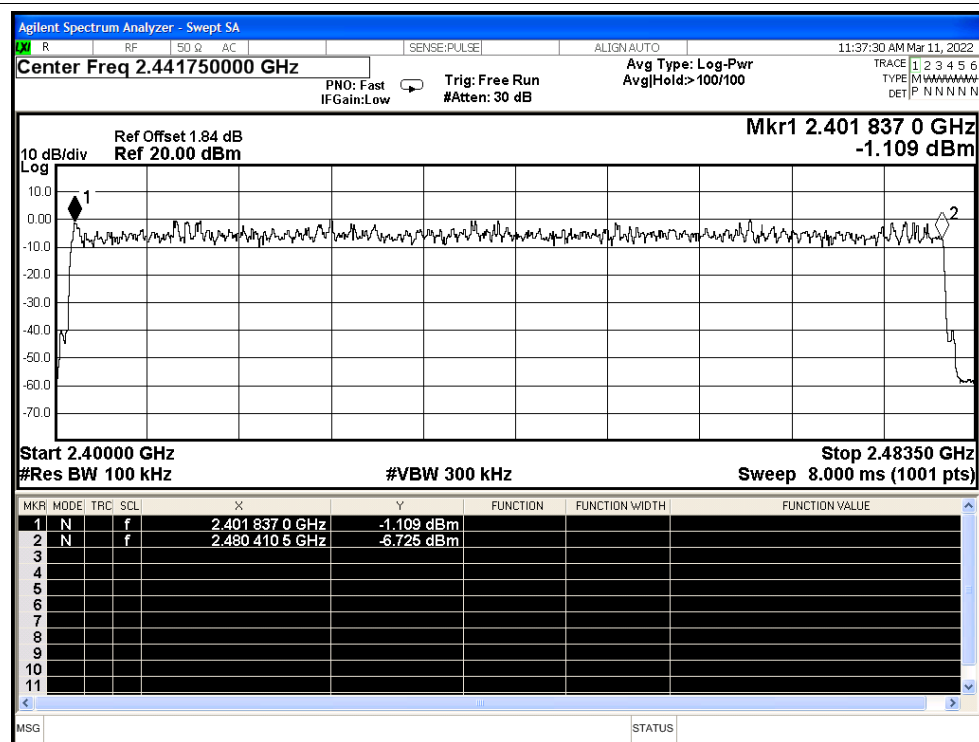




Hopping No. NVNT 1-DH5 2480MHz Ant1

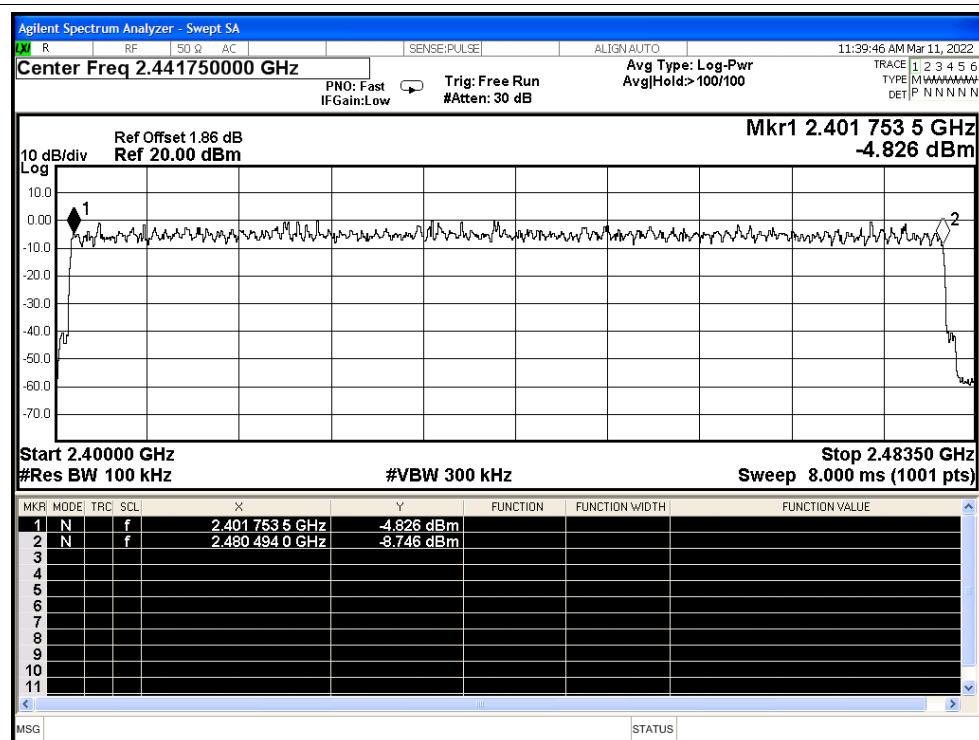


Hopping No. NVNT 2-DH5 2402MHz Ant1

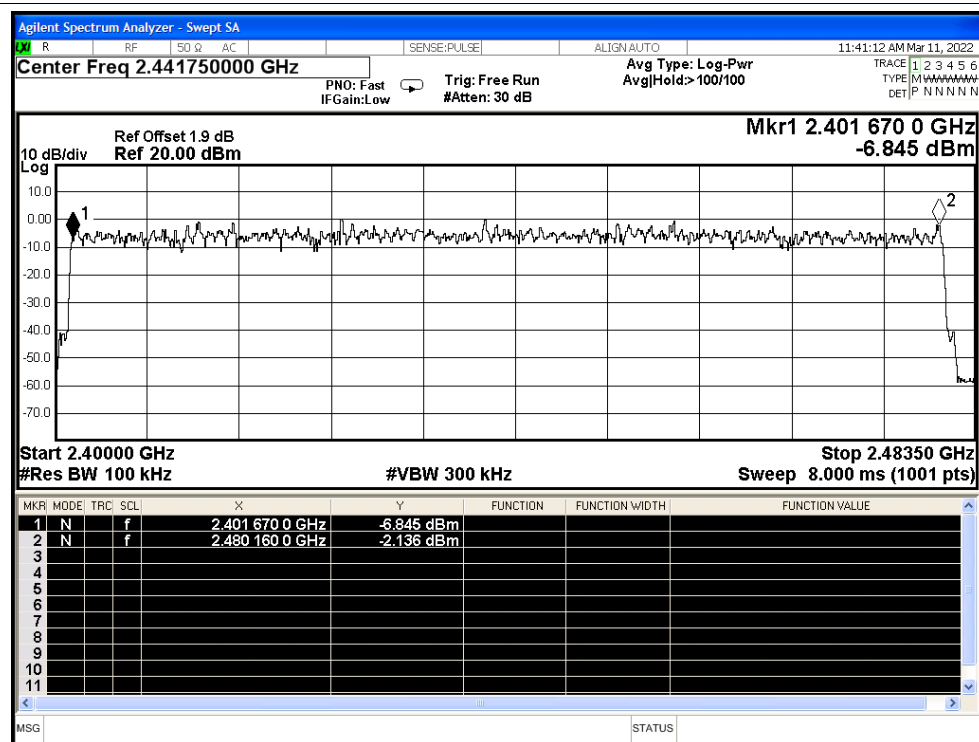




Hopping No. NVNT 2-DH5 2441MHz Ant1

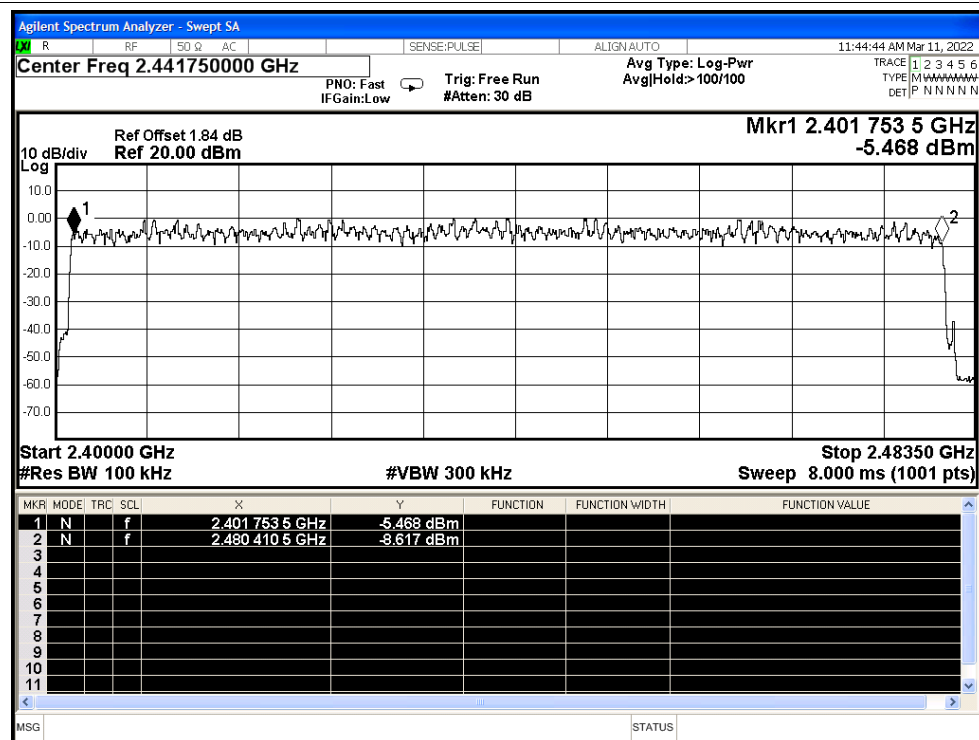


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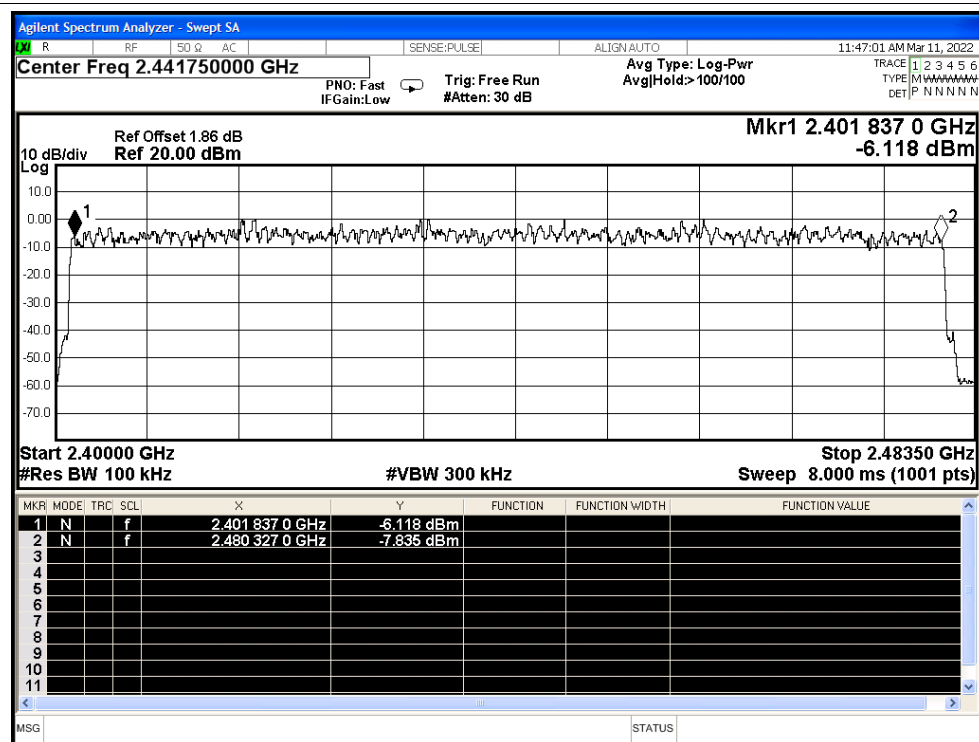


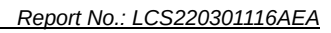


Hopping No. NVNT 3-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2441MHz Ant1







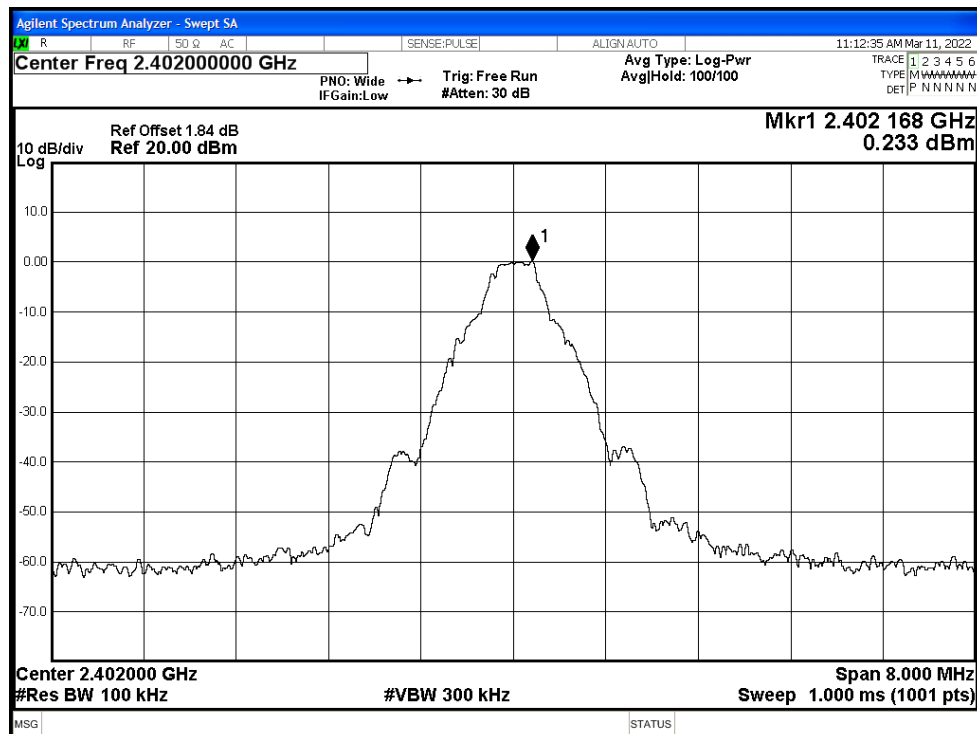
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.67	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.35	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.11	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.33	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.61	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.92	-20	Pass

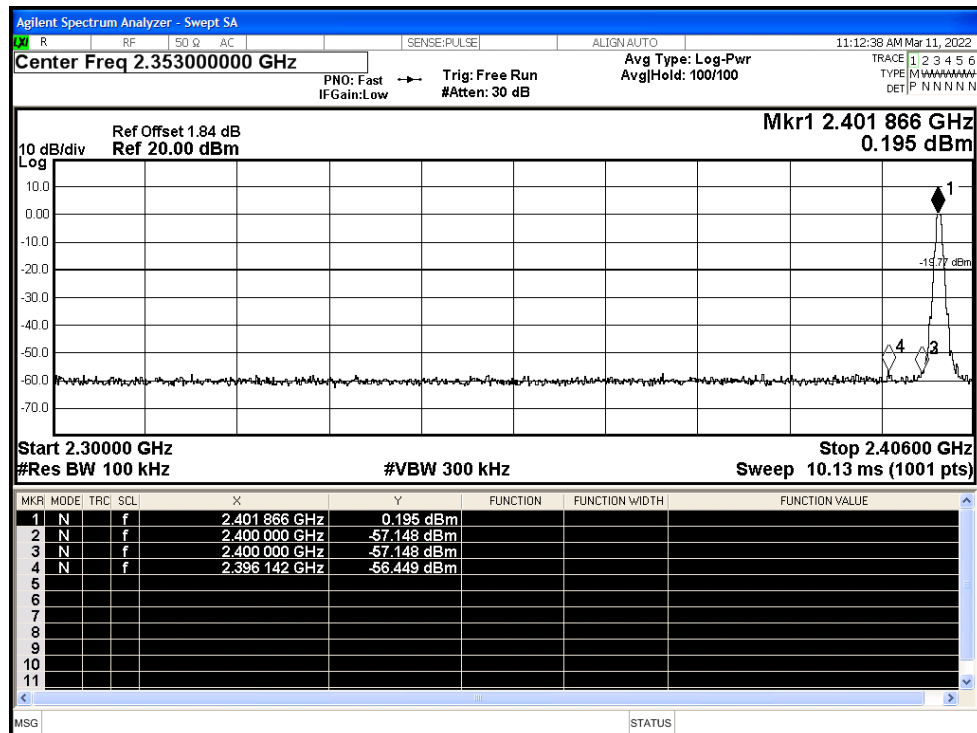


Test Graphs

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

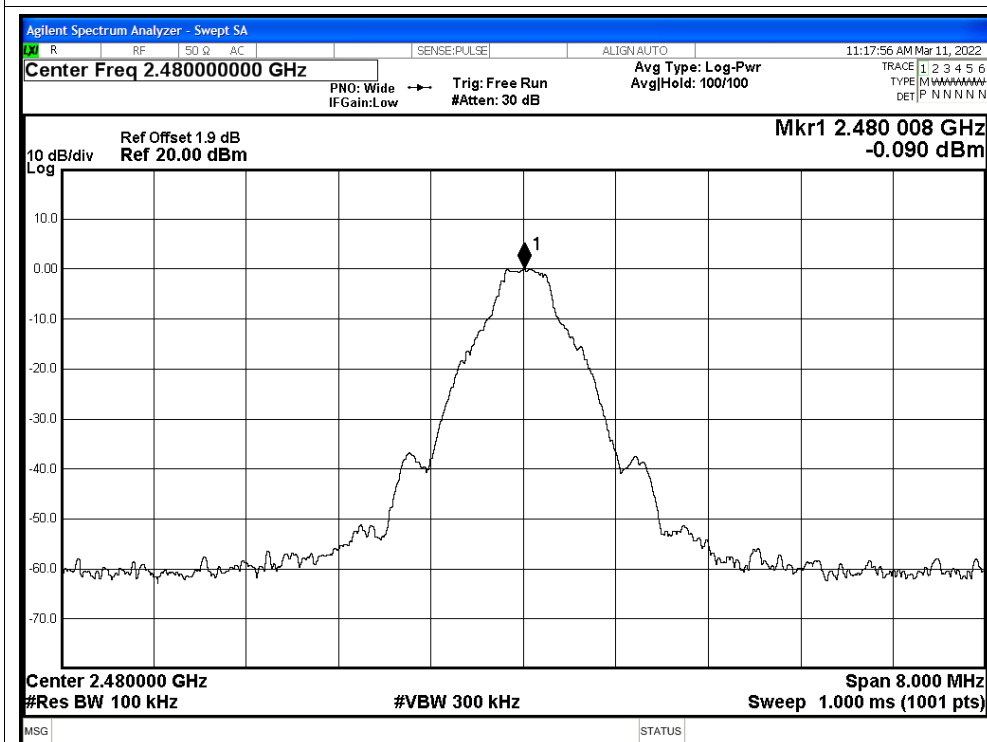


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

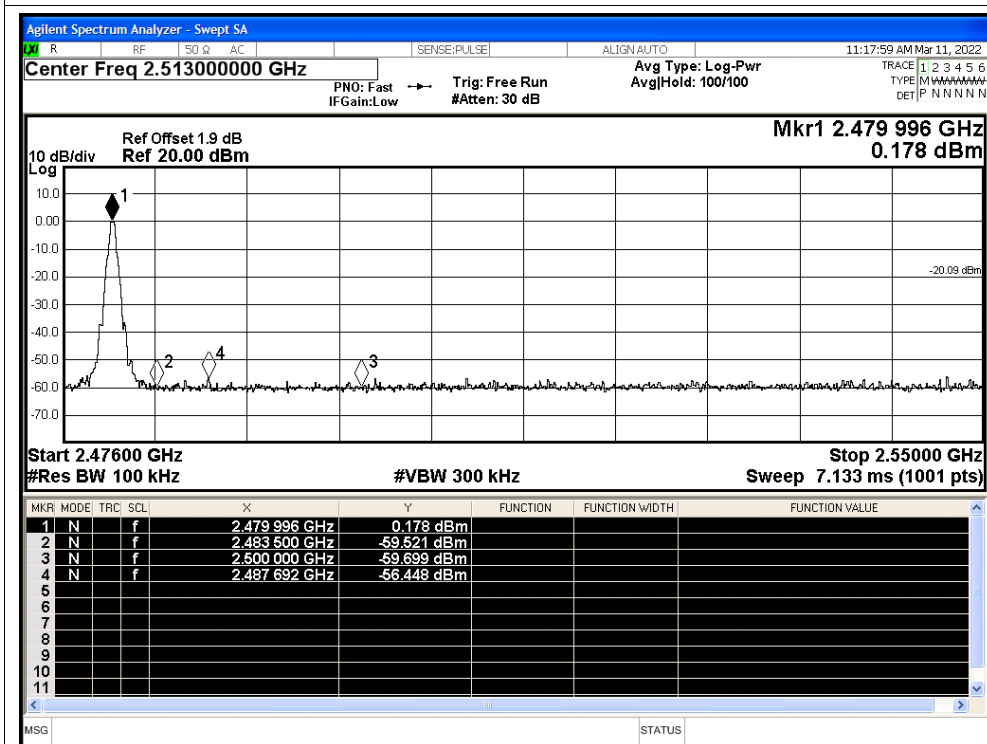




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

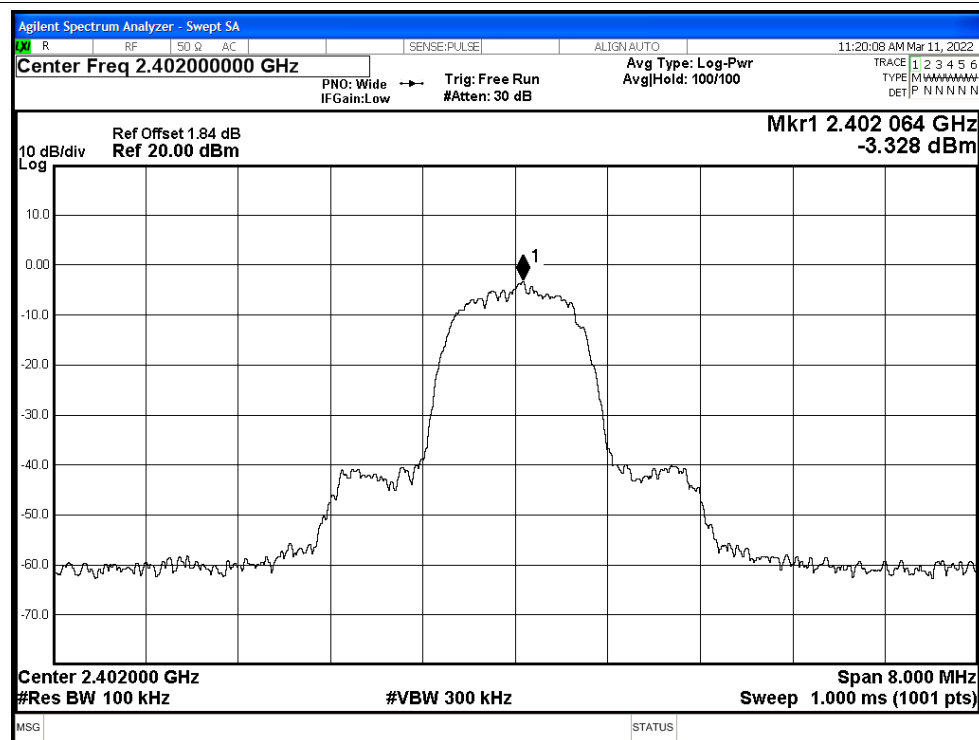


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

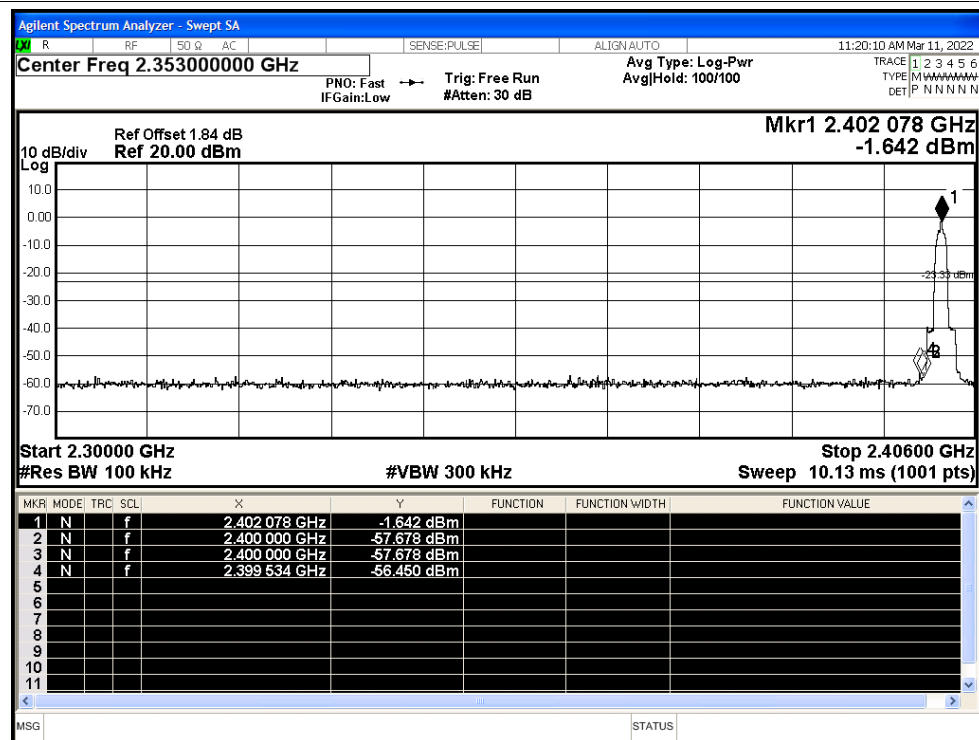




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

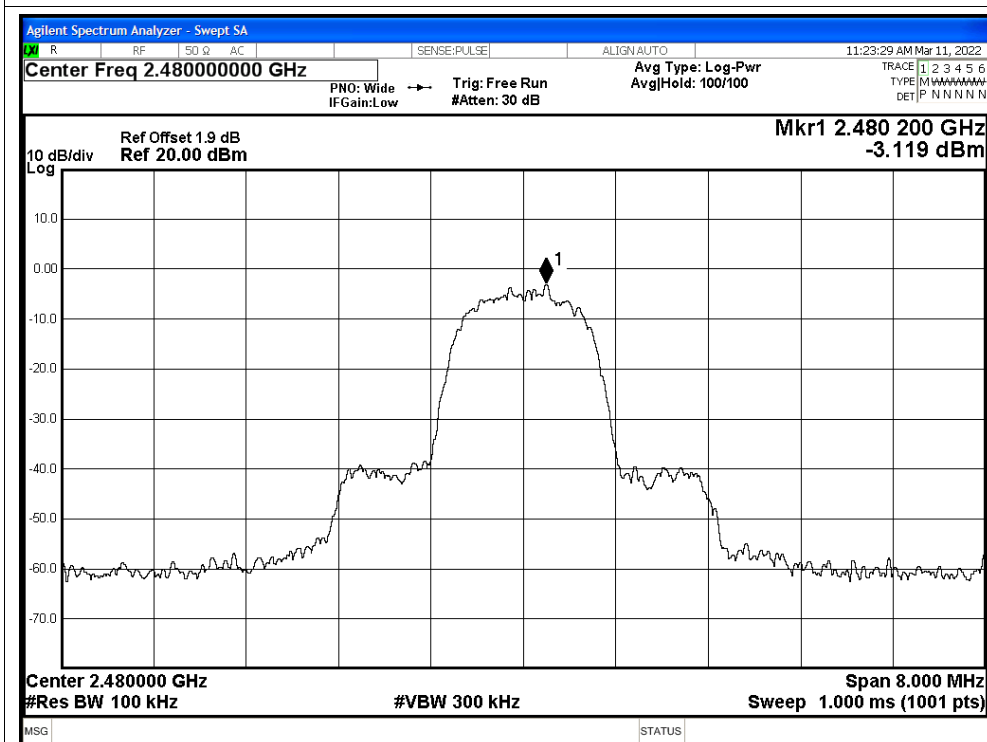


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

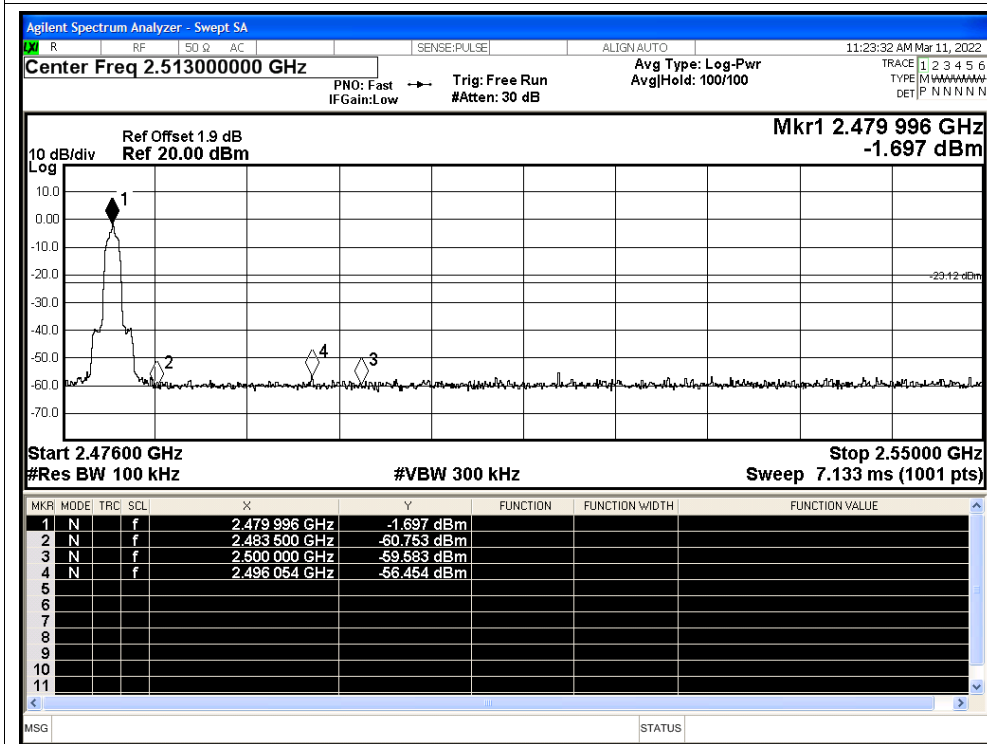




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

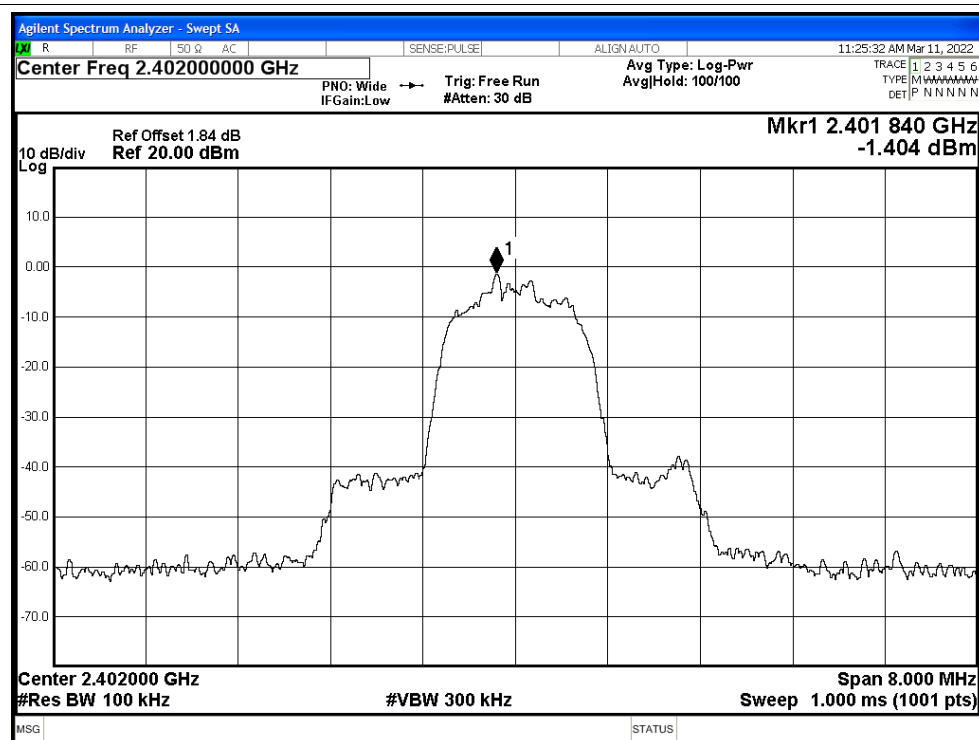


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

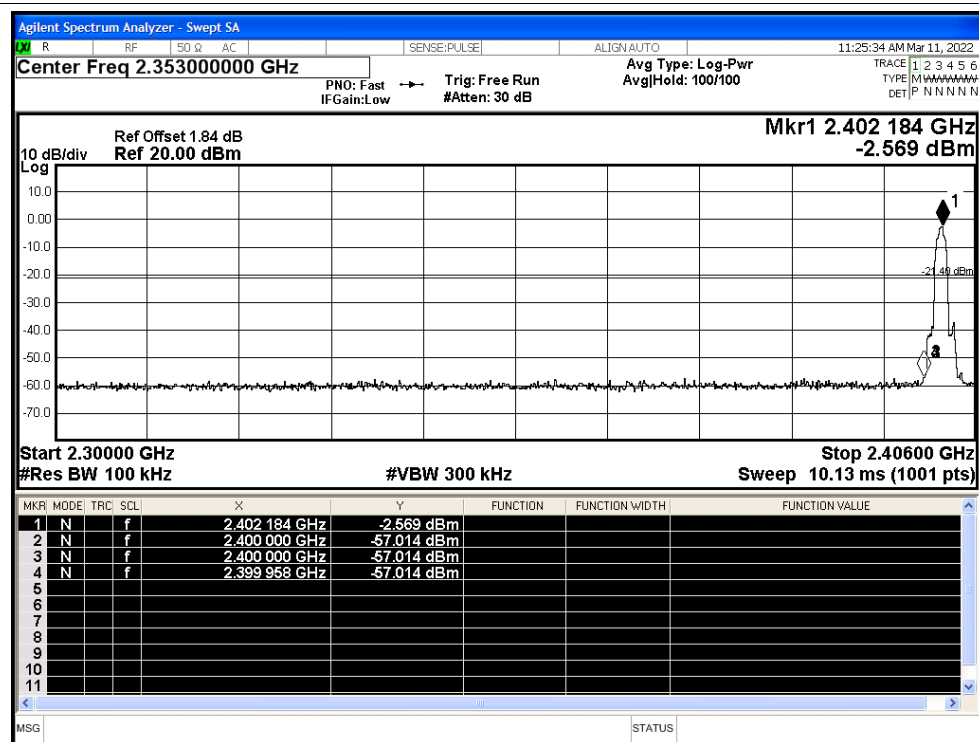




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

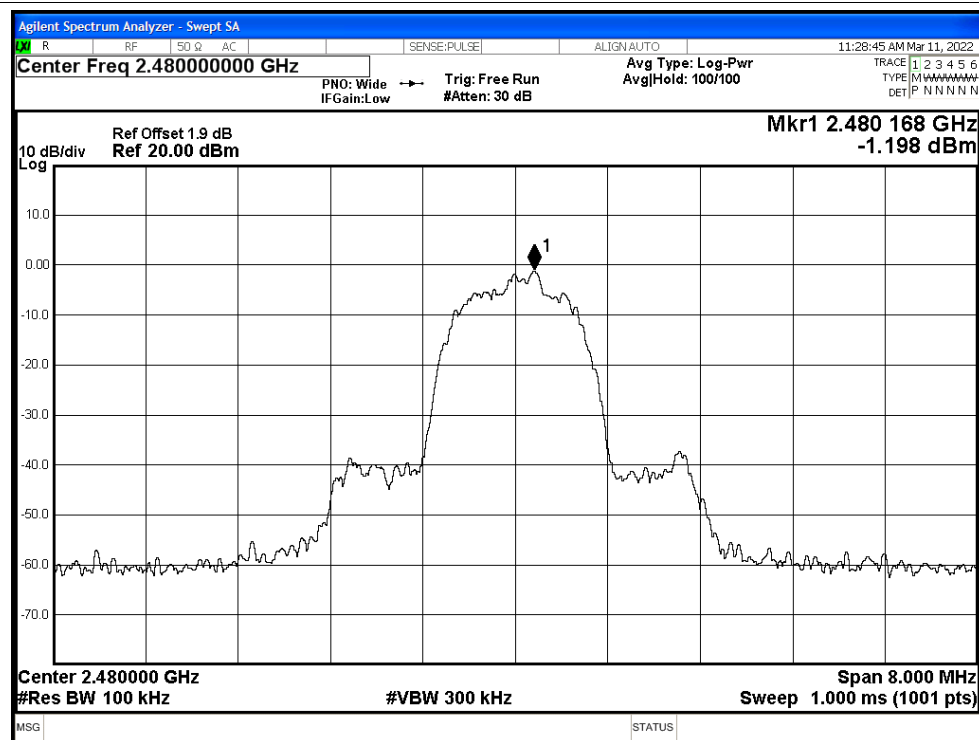


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

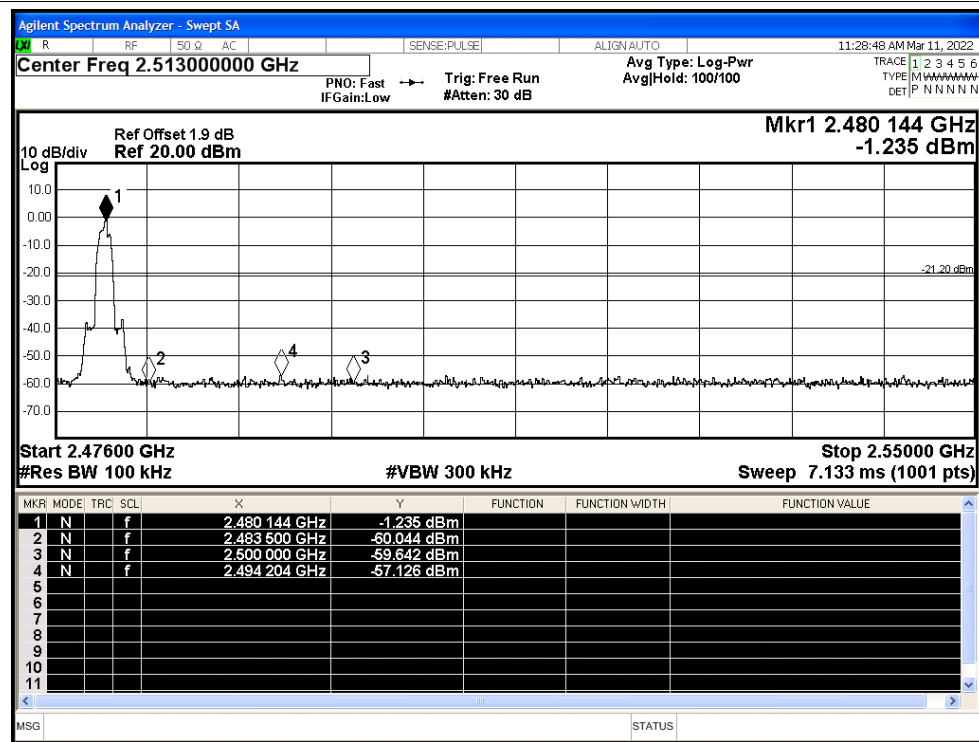




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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



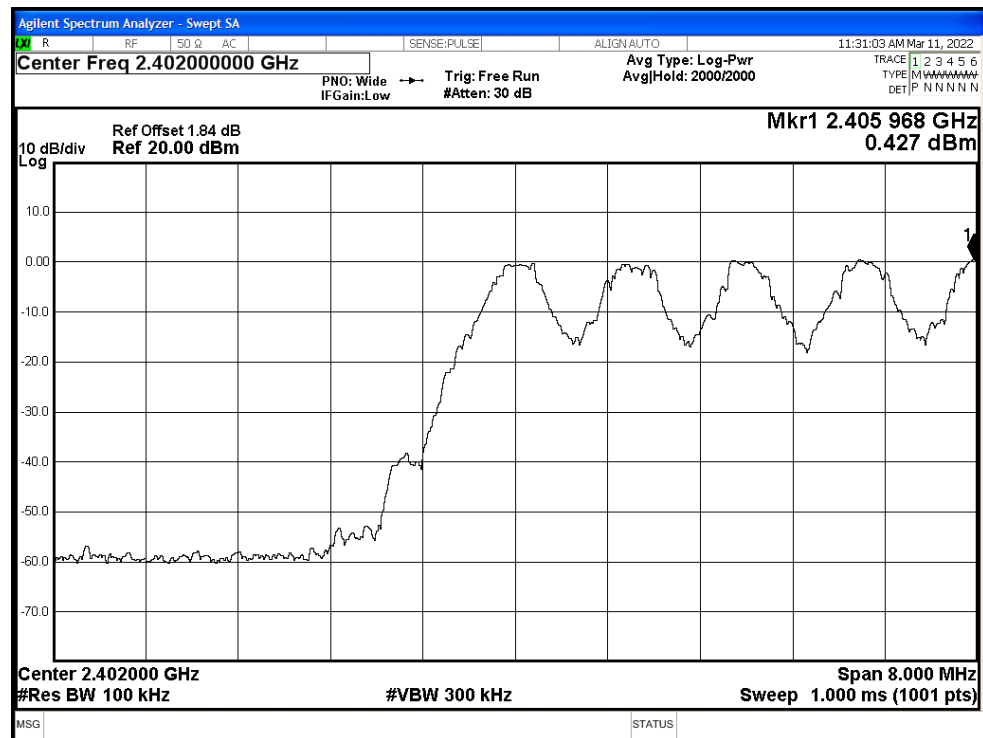
**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.81	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.2	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.18	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.42	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.4	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.27	-20	Pass

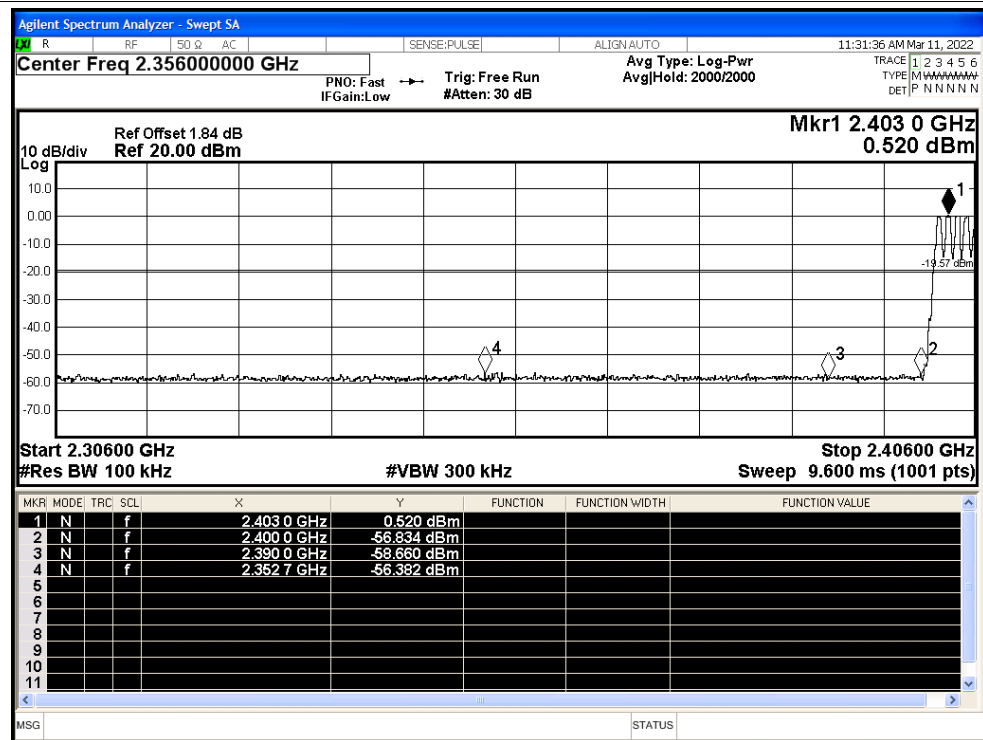


Test Graphs

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

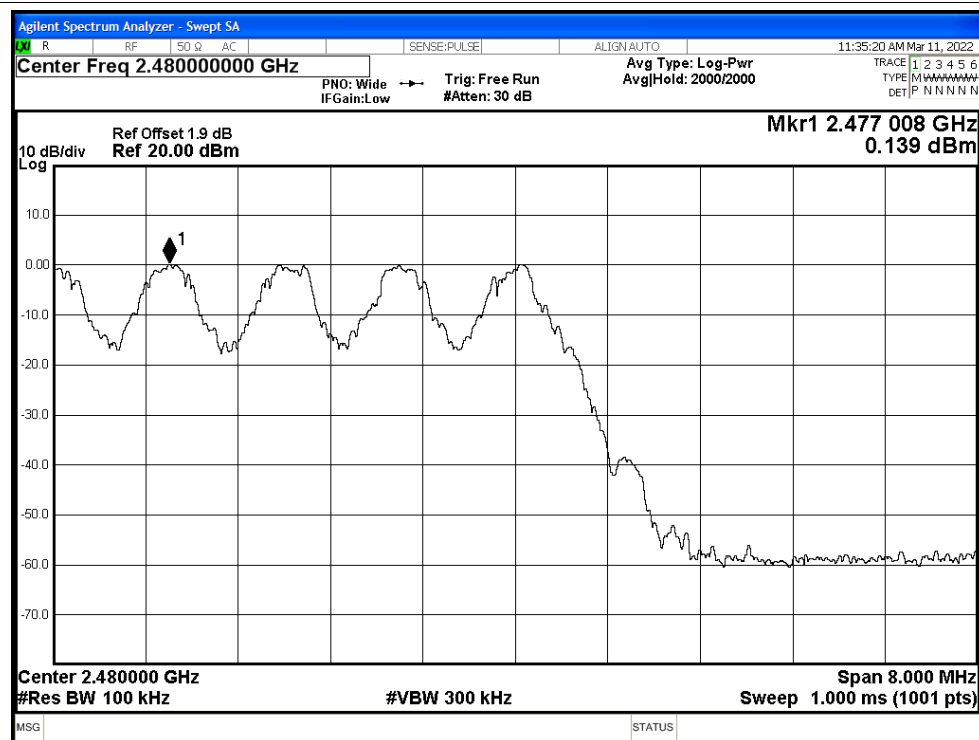


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

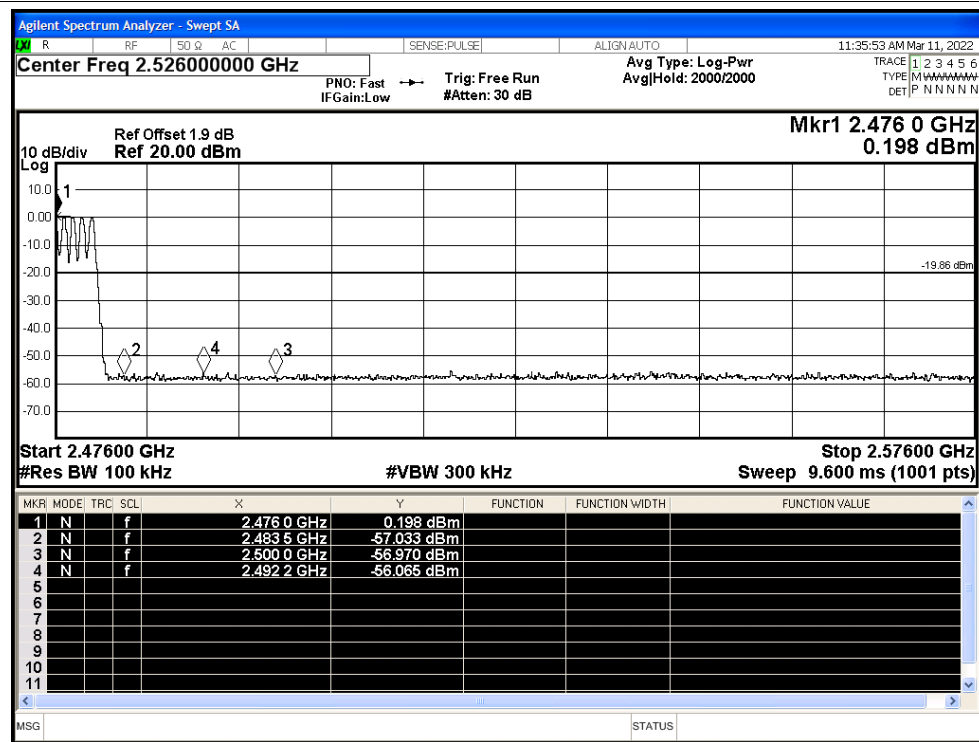




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

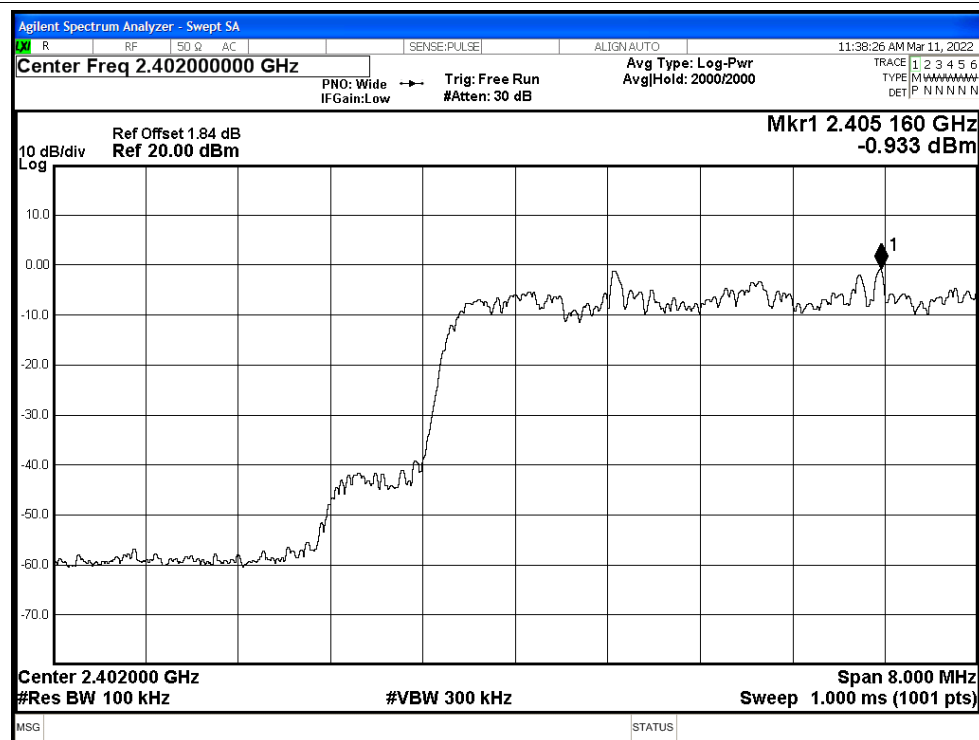


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

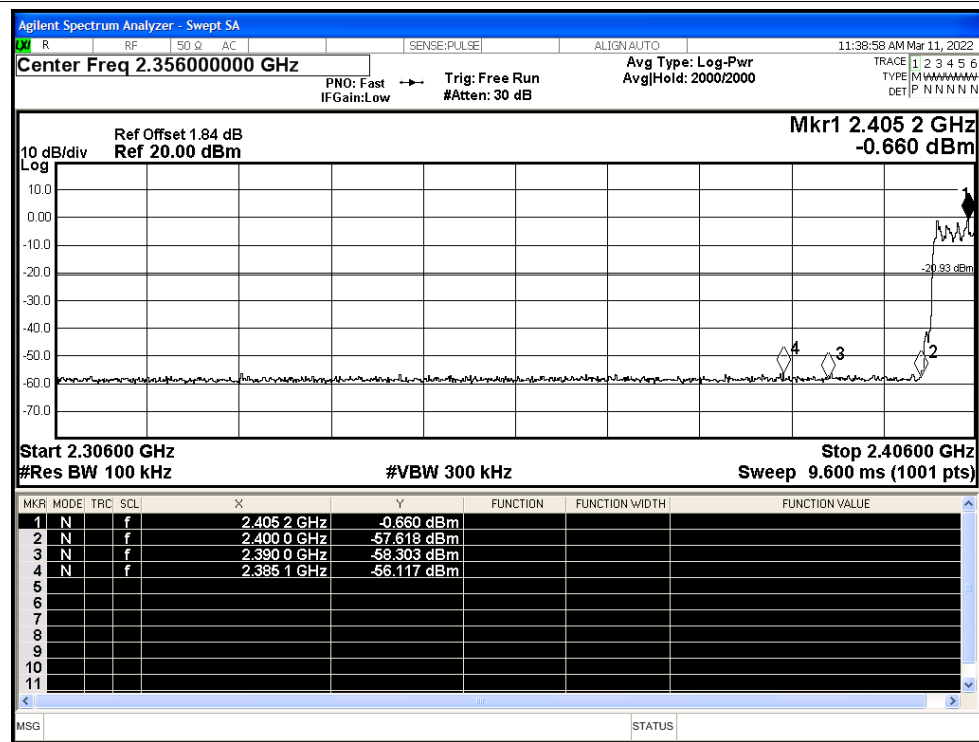




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

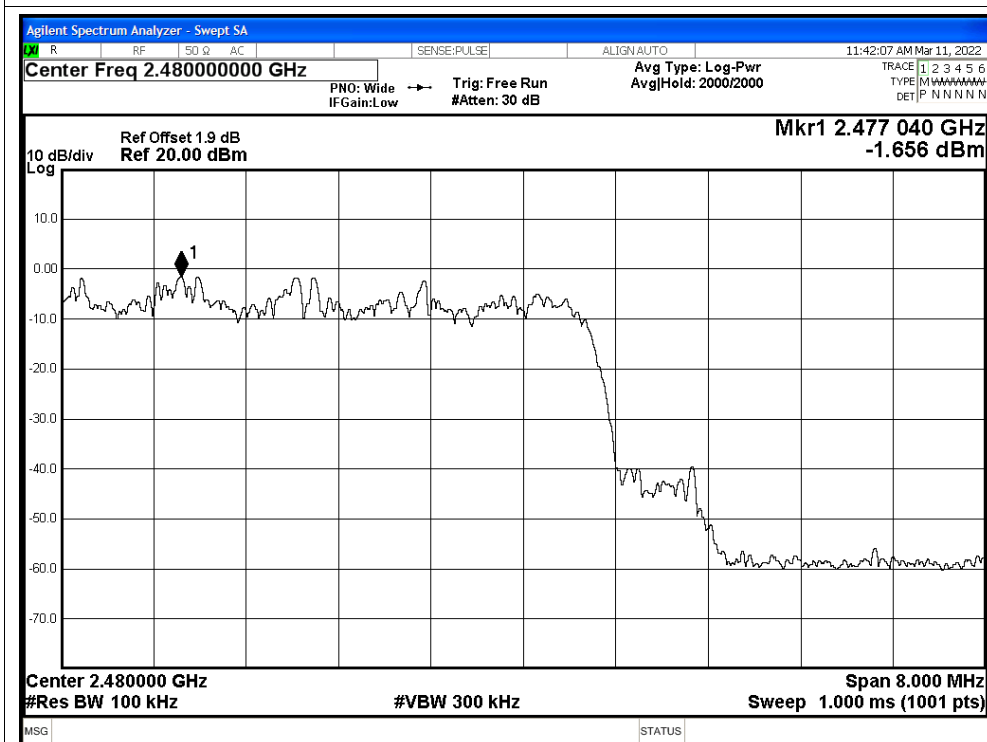


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

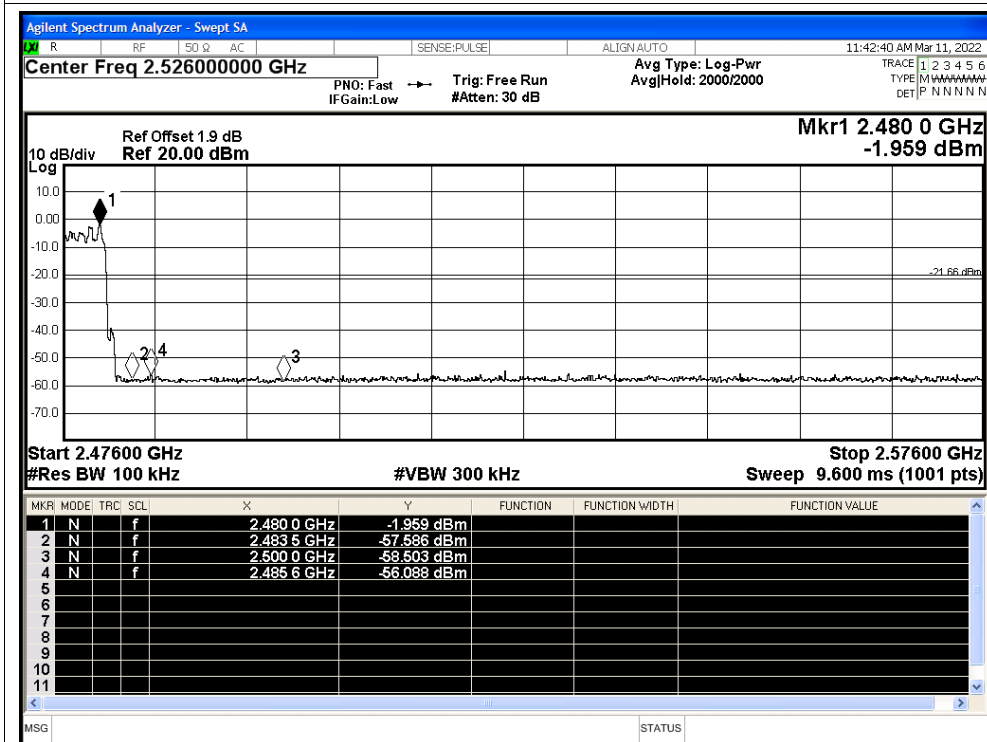




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

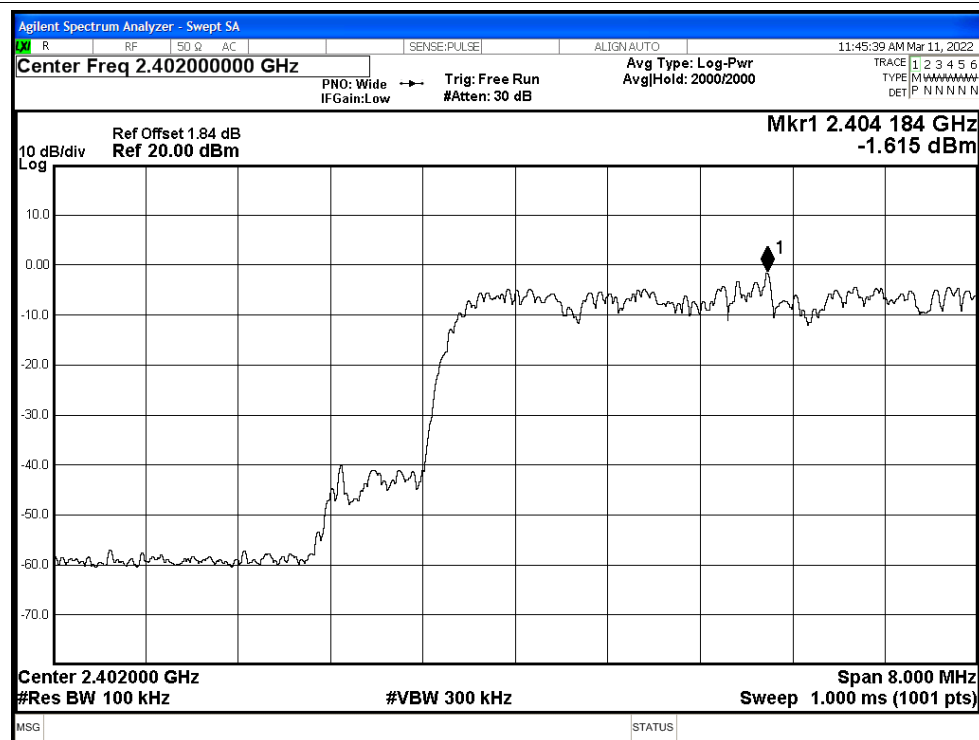


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

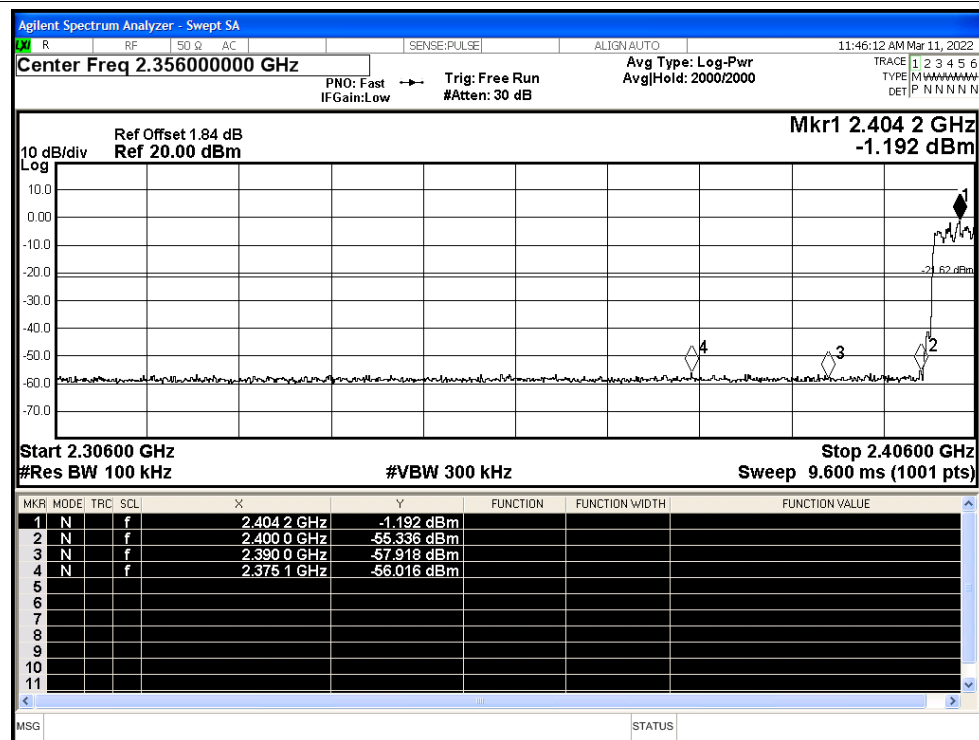




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

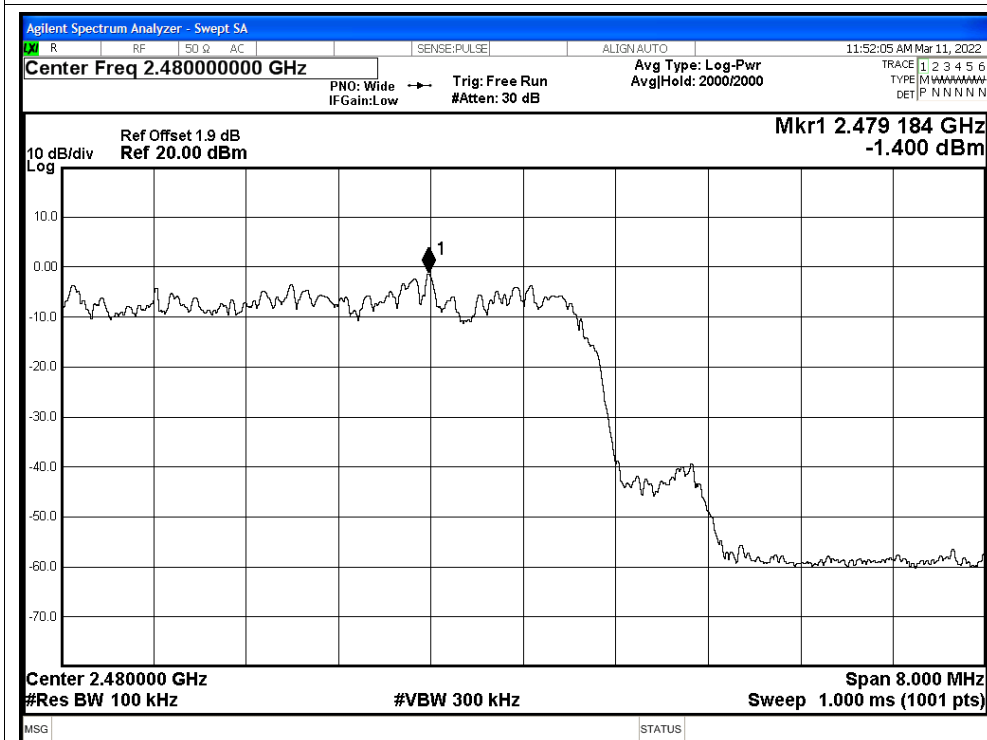


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

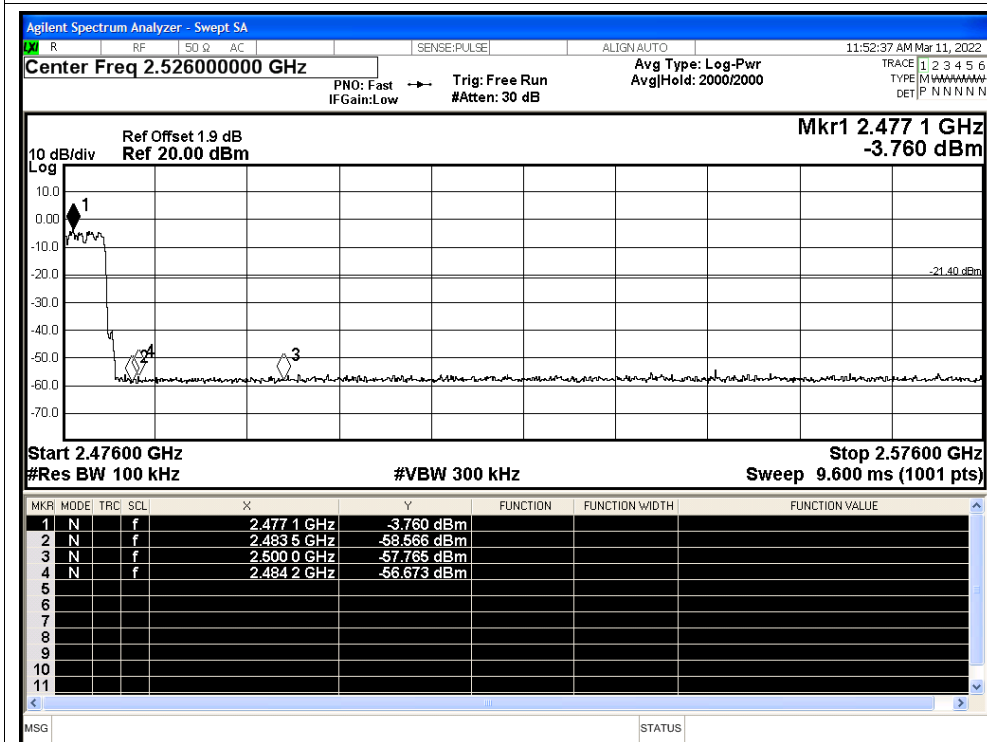




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





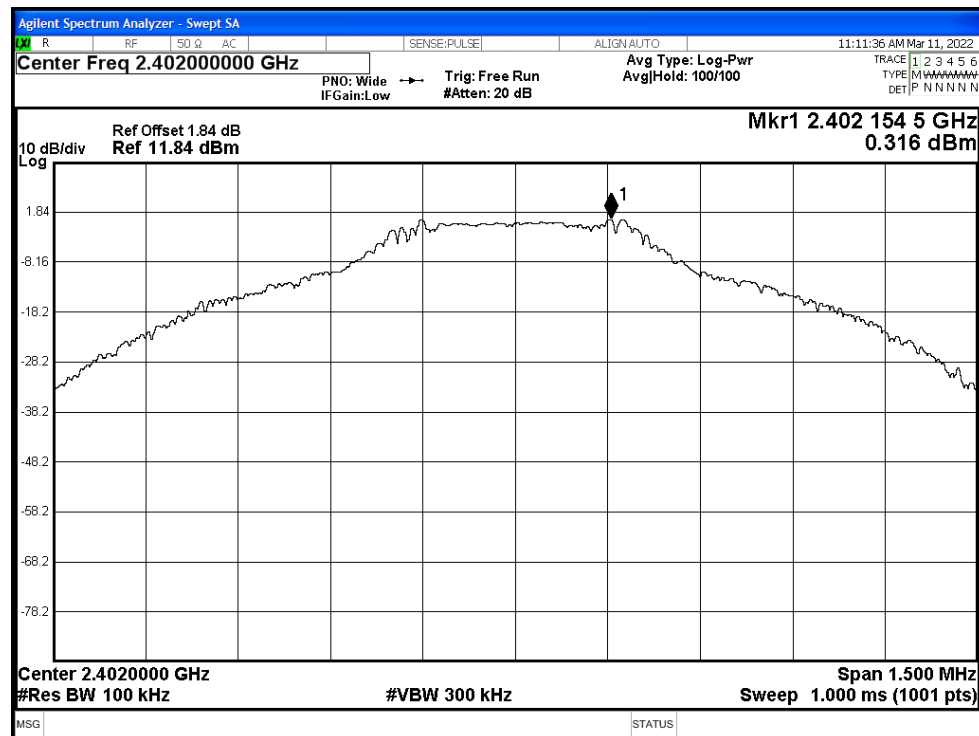
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.39	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.3	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.16	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.33	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.67	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.39	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.99	-20	Pass
NVNT	3-DH5	2441	Ant1	-56.04	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.08	-20	Pass

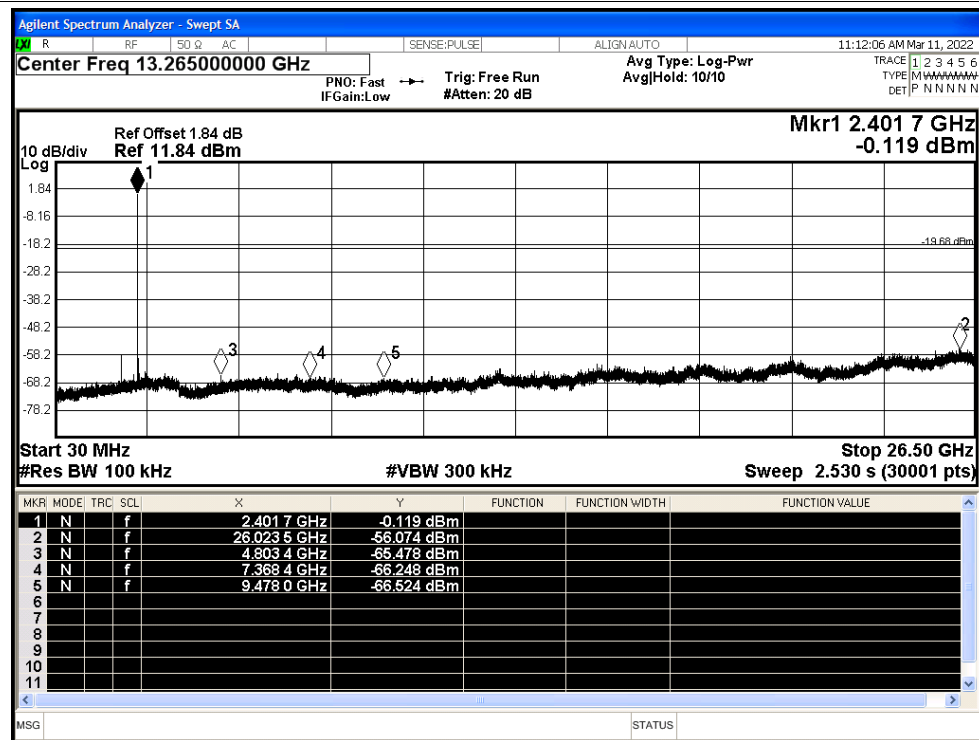


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

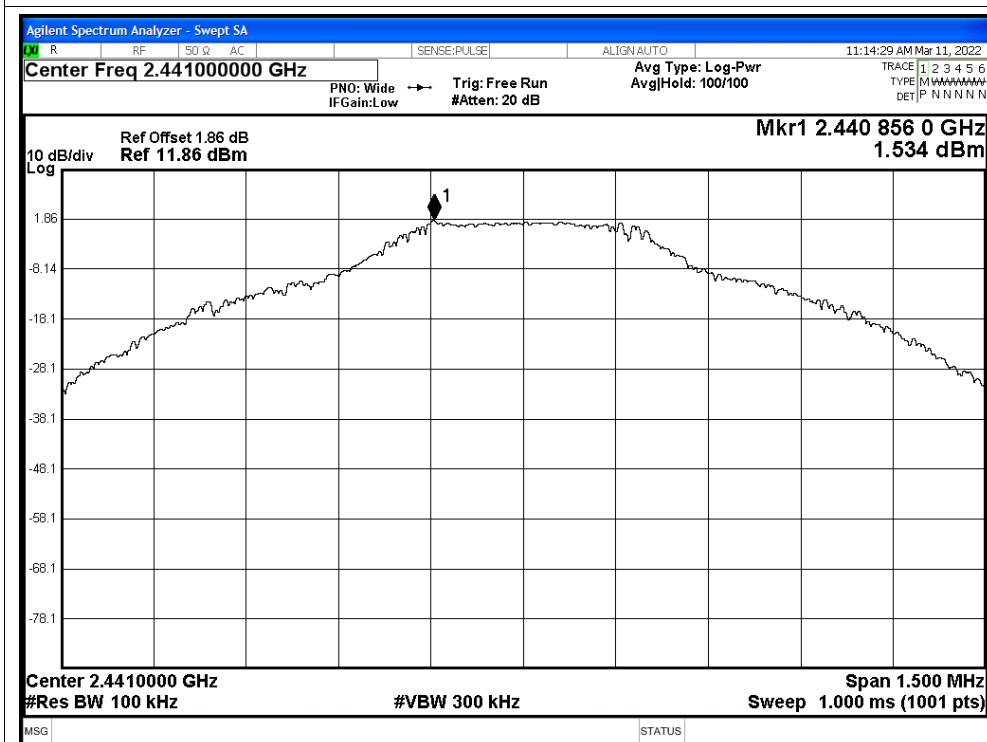


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

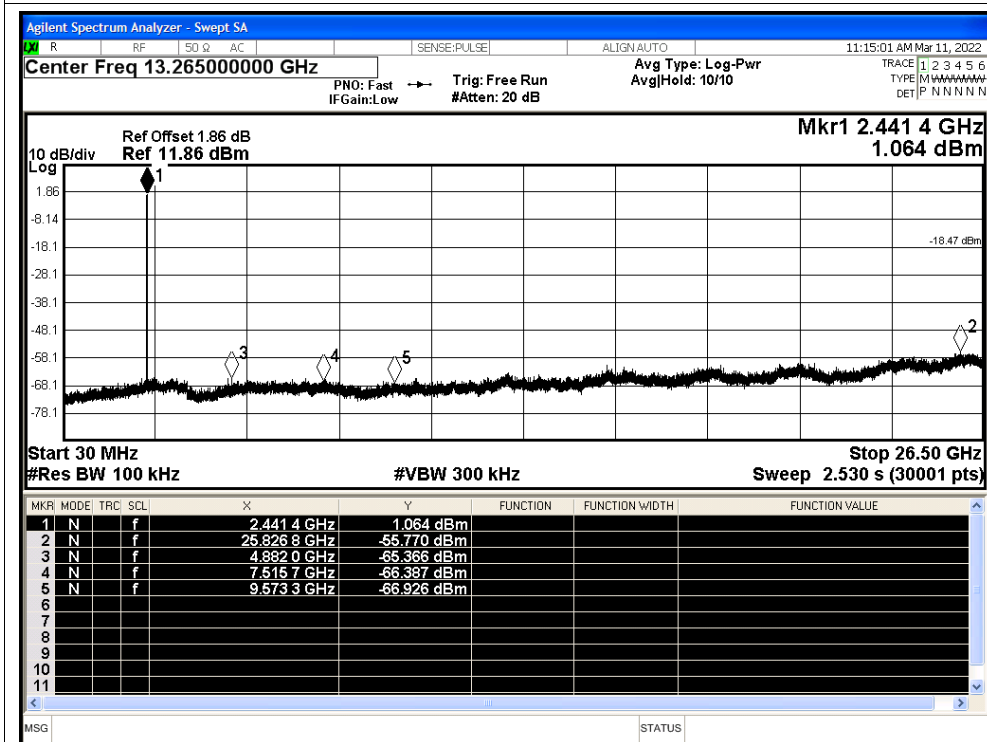




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

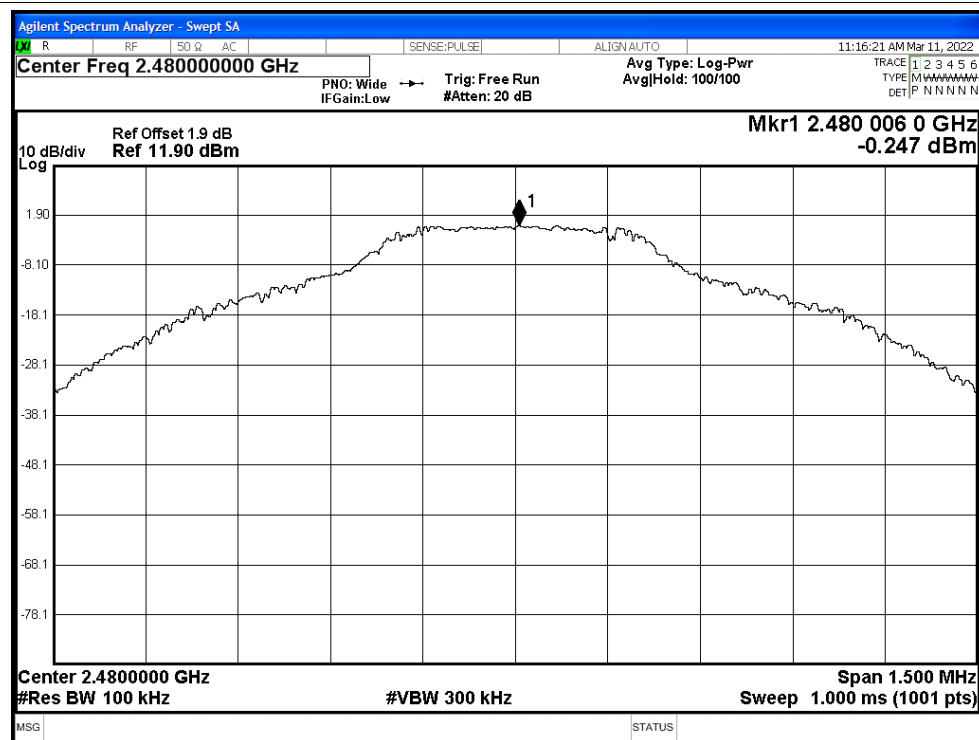


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

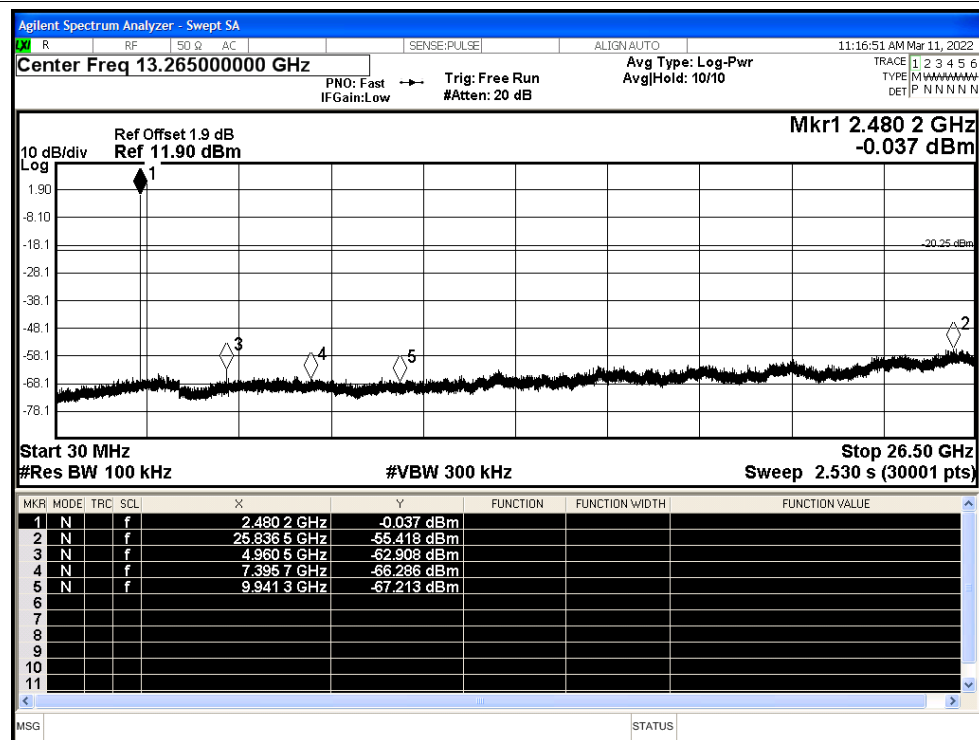




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

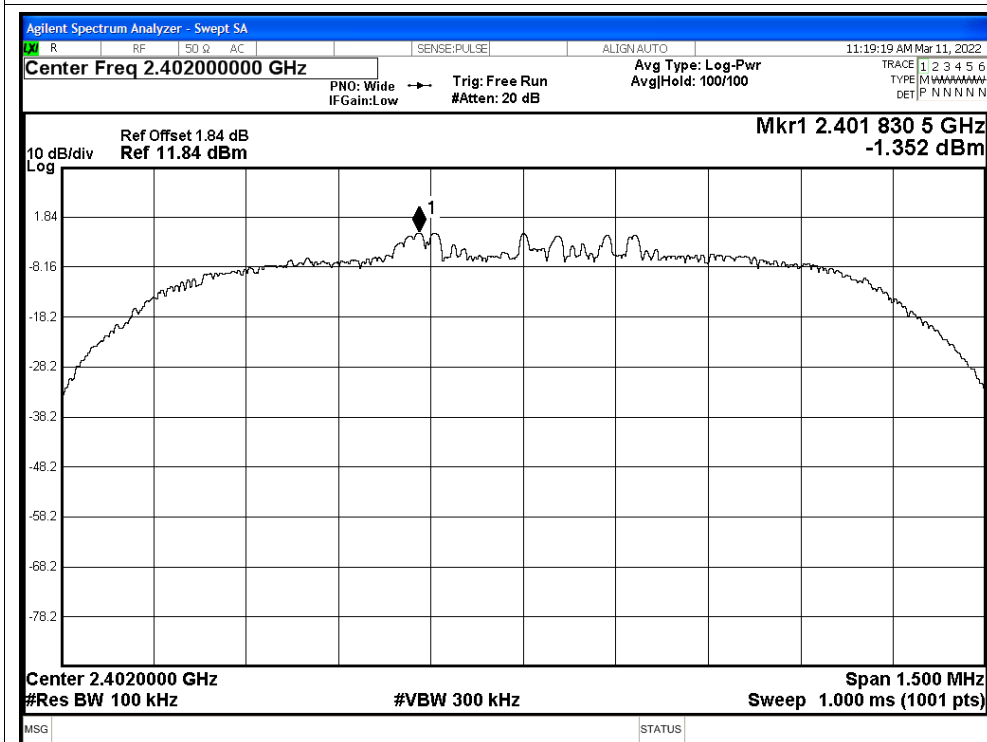


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

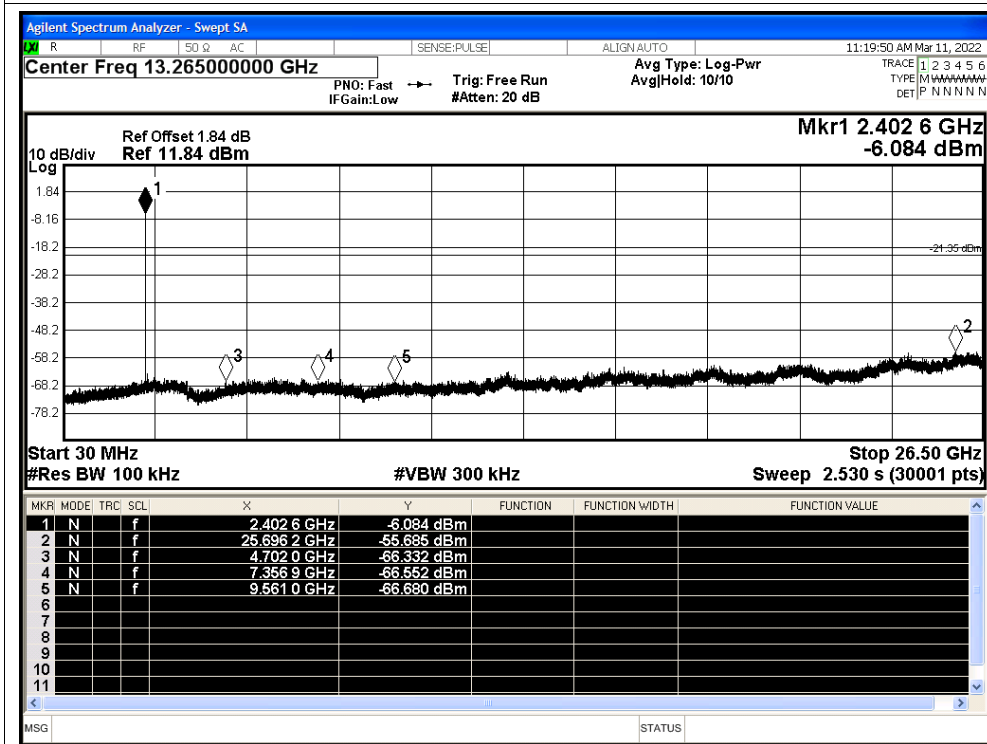




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

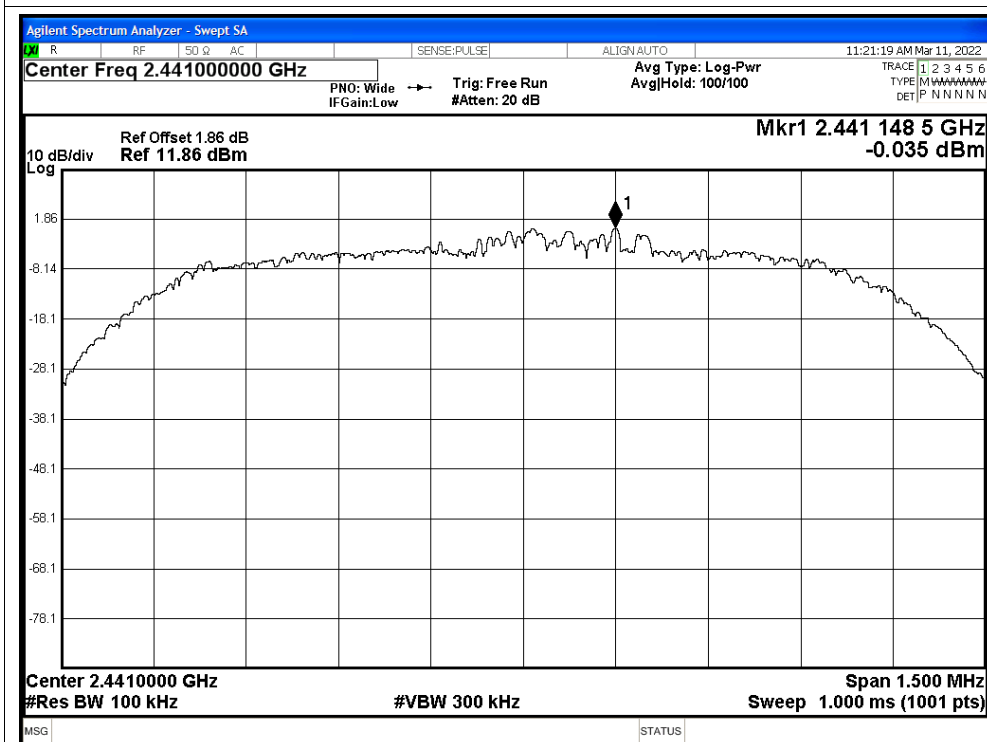


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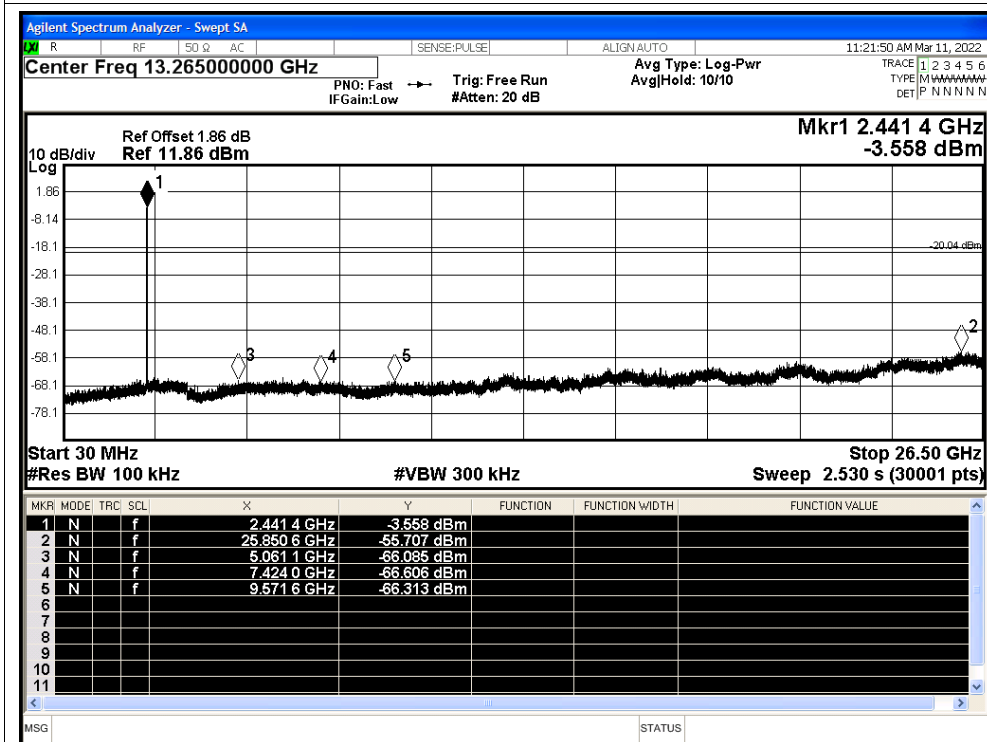




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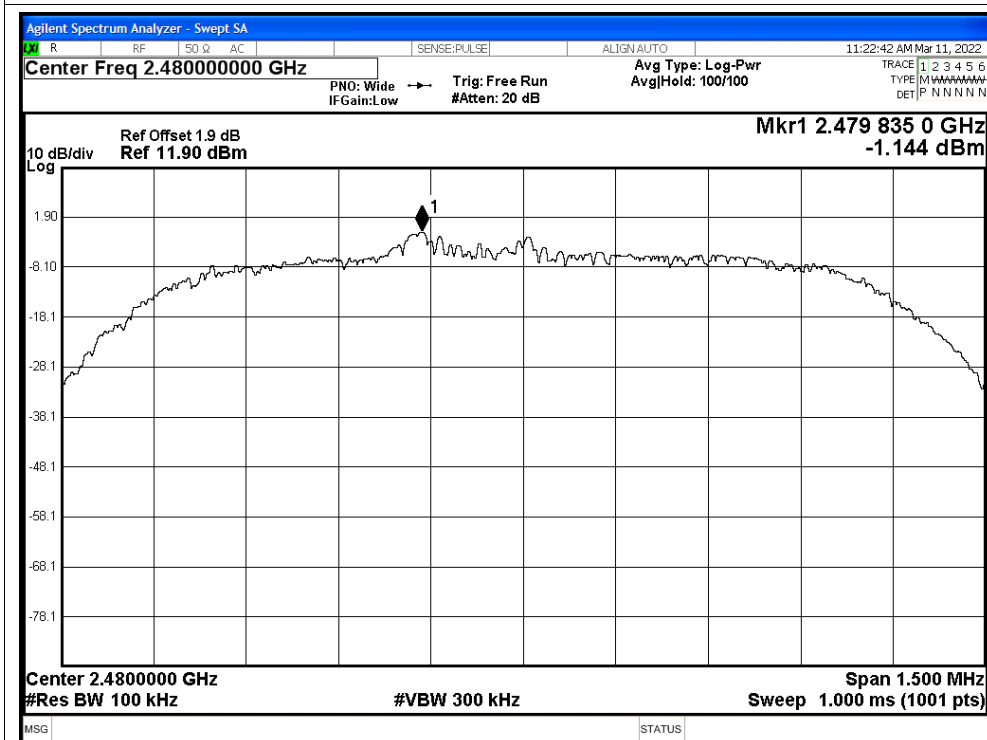


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

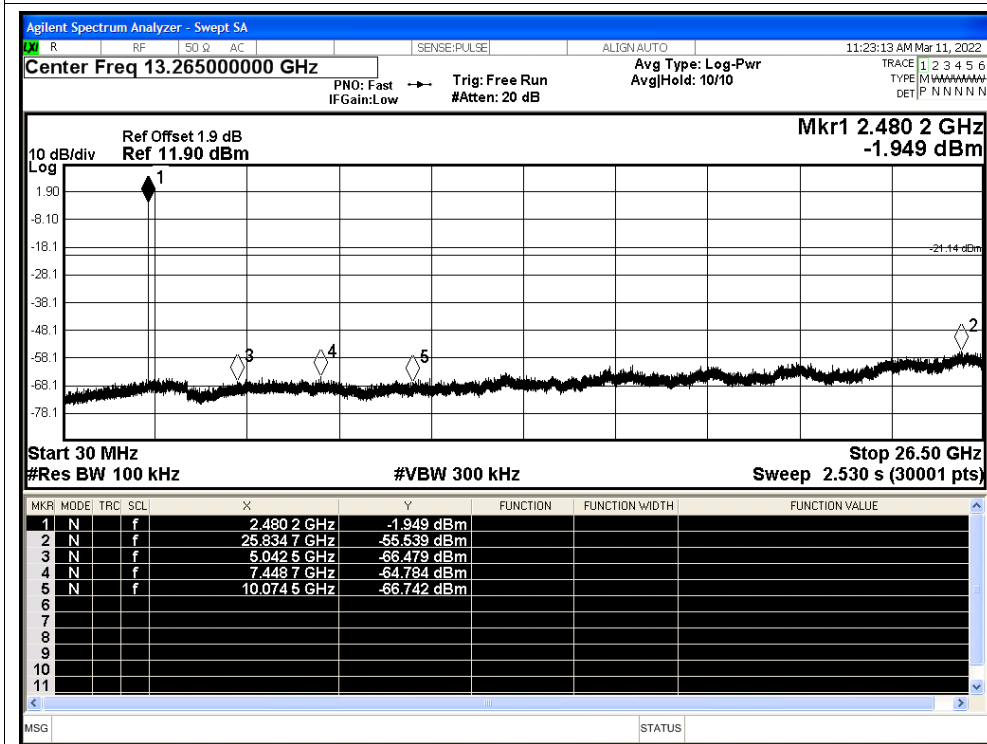




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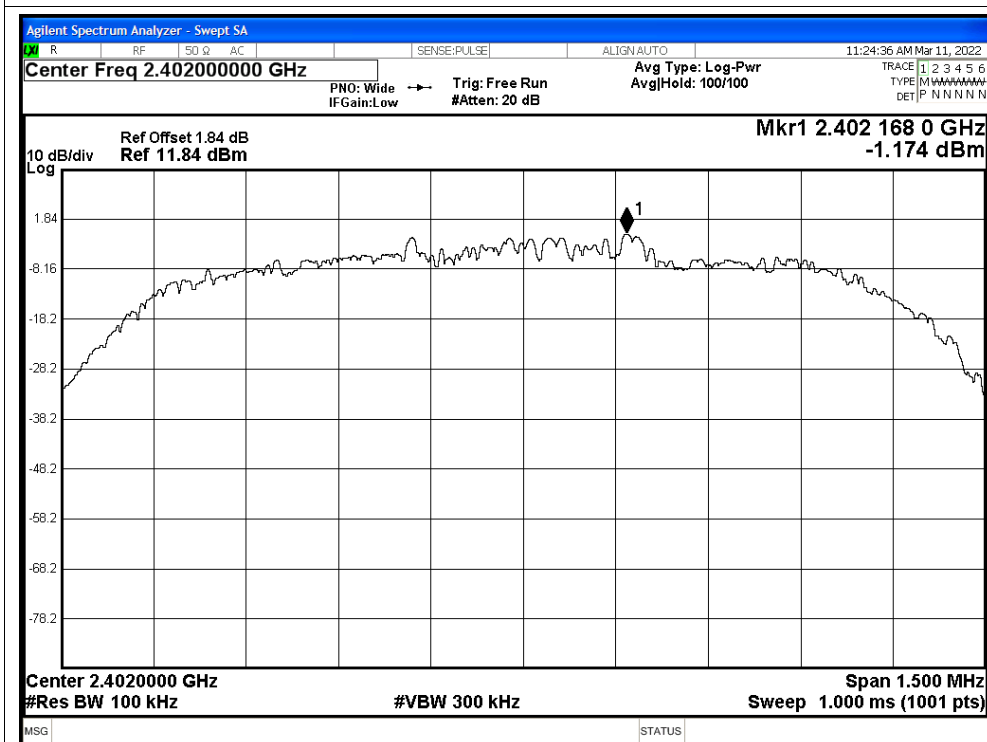


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

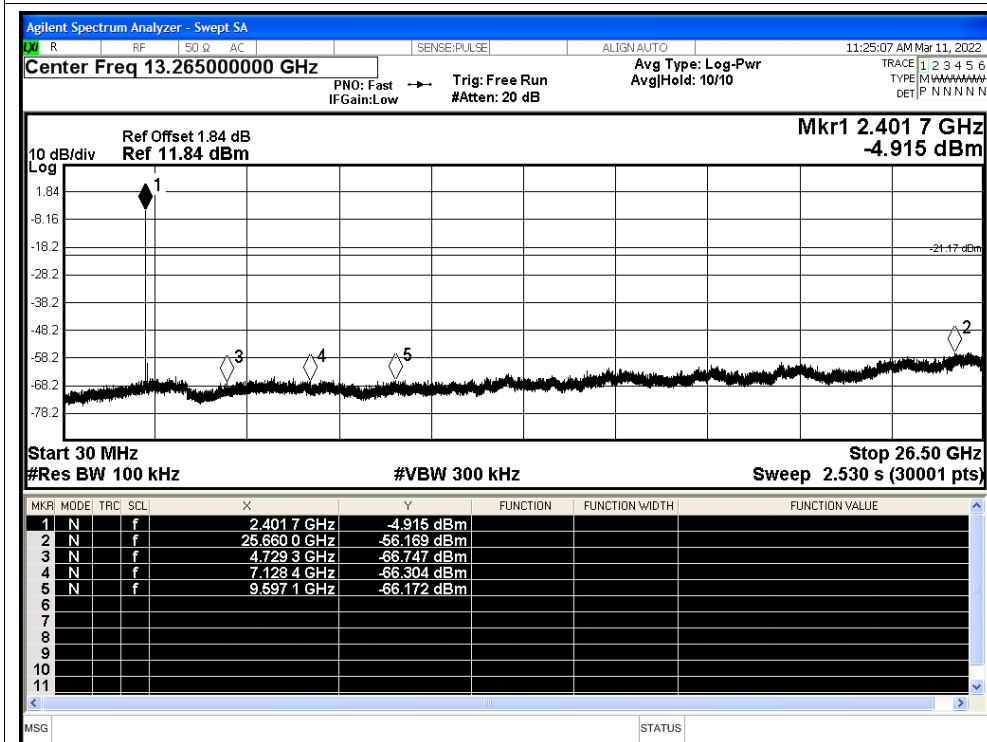




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

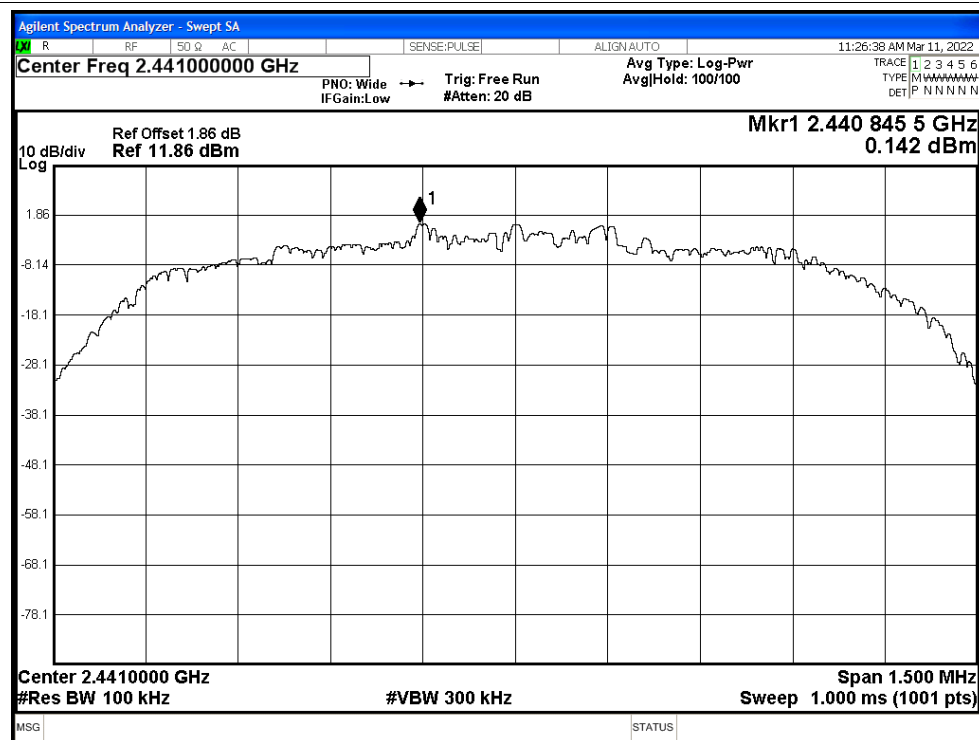


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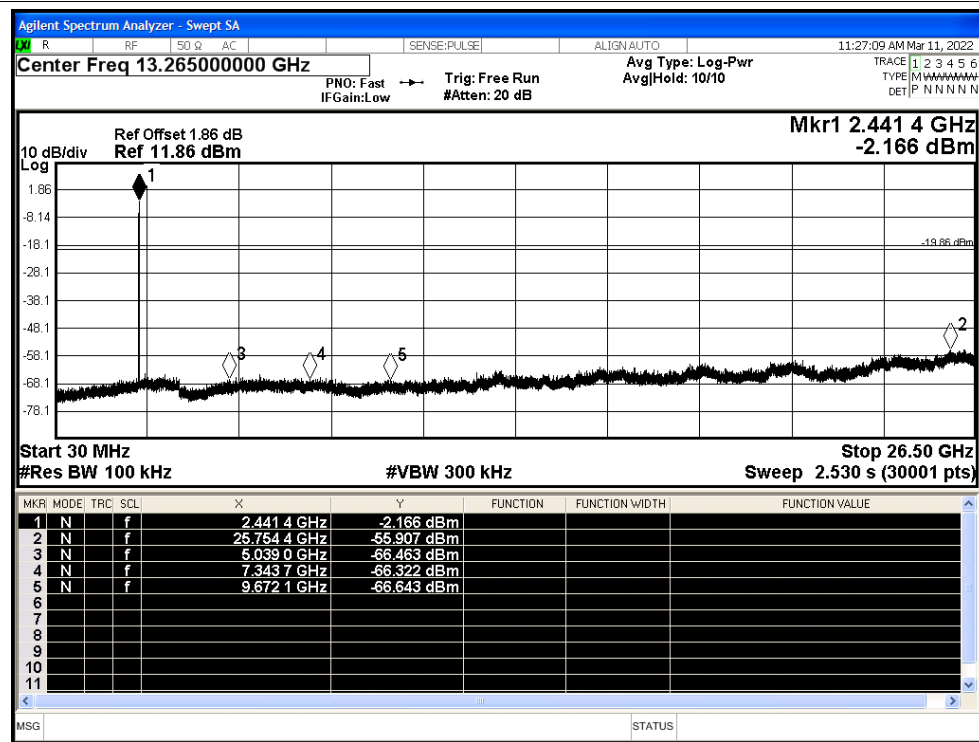




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

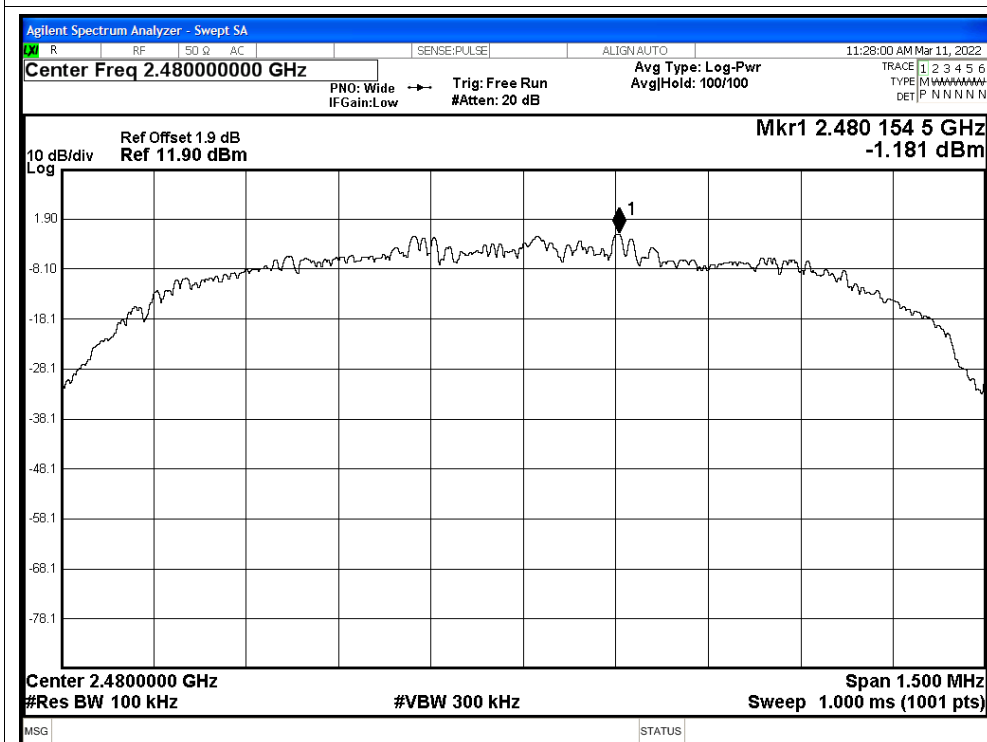


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

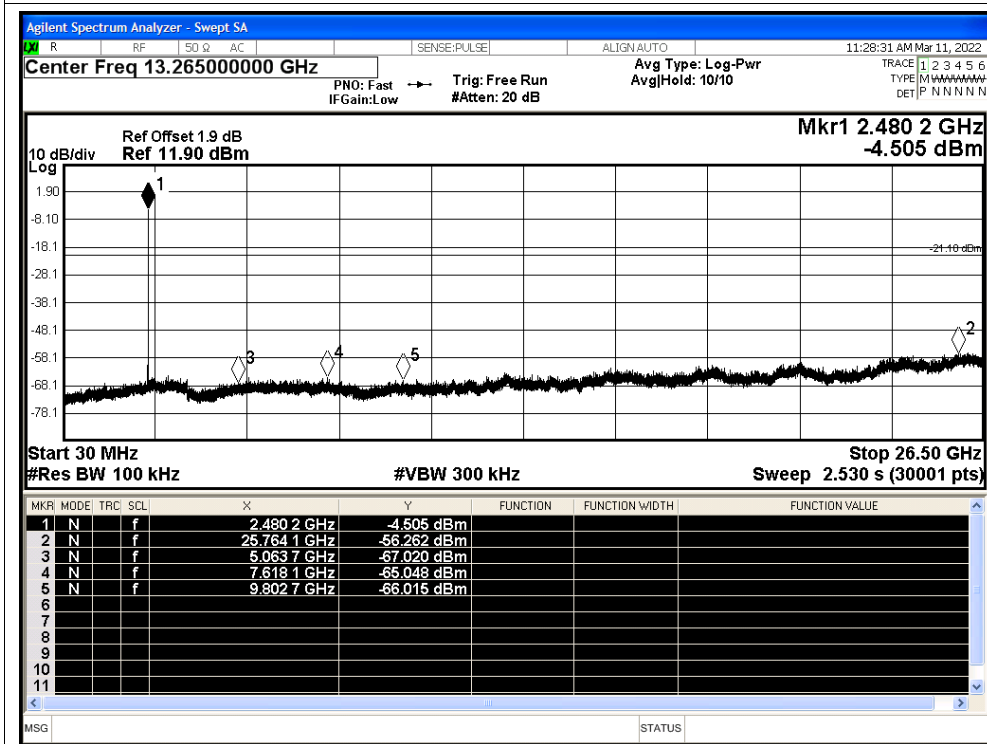




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





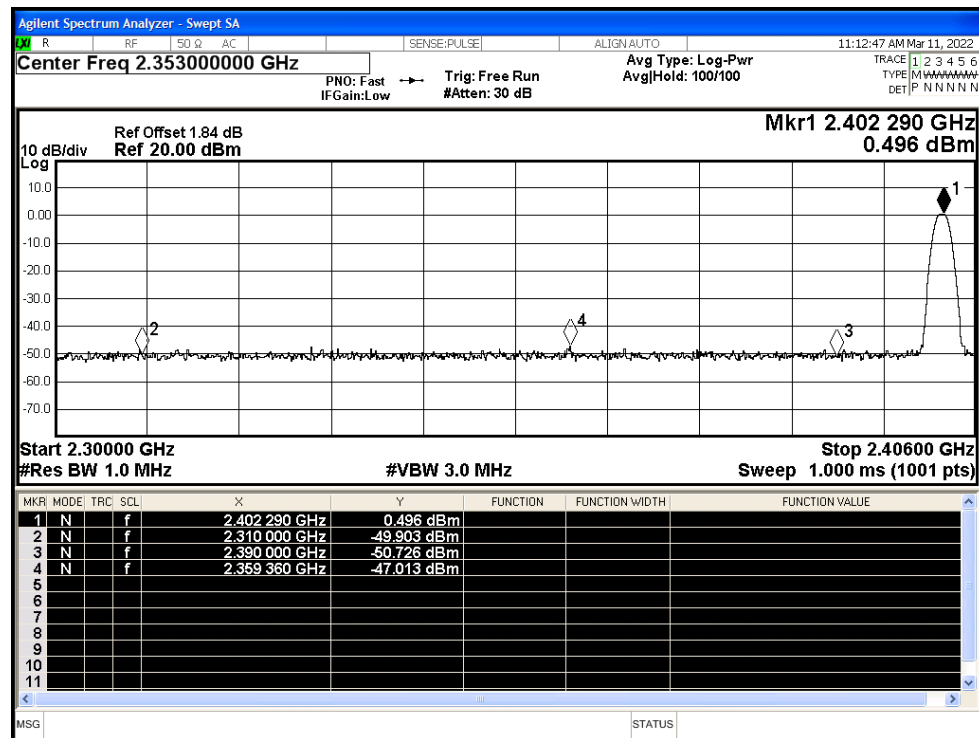
A.8 Restrict Band

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	-50.32	2	46.94	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.68	2	36.58	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2359.36	-47.01	2	50.25	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.86	-60.14	2	37.12	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.25	2	46.01	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.29	2	36.97	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.48	2	46.78	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.78	2	37.48	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.436	-47.35	2	49.91	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.696	-59.63	2	37.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.64	2	47.62	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.95	2	37.31	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.83	2	46.43	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.43	2	36.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2380.666	-45.53	2	51.73	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2373.776	-60.07	2	37.19	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.61	2	46.65	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.17	2	37.09	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.87	2	47.39	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.57	2	37.69	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.176	-48.02	2	49.24	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.622	-59.54	2	37.72	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.39	2	47.87	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.88	2	37.38	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.33	2	46.93	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	2385.966	-47.13	2	50.13	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.404	-60.08	2	37.18	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.19	2	48.07	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	-51.24	2	46.02	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.23	2	38.03	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.88	-47.55	2	49.71	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.548	-59.23	2	38.03	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.3	2	46.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.94	2	37.32	Average	54	Pass

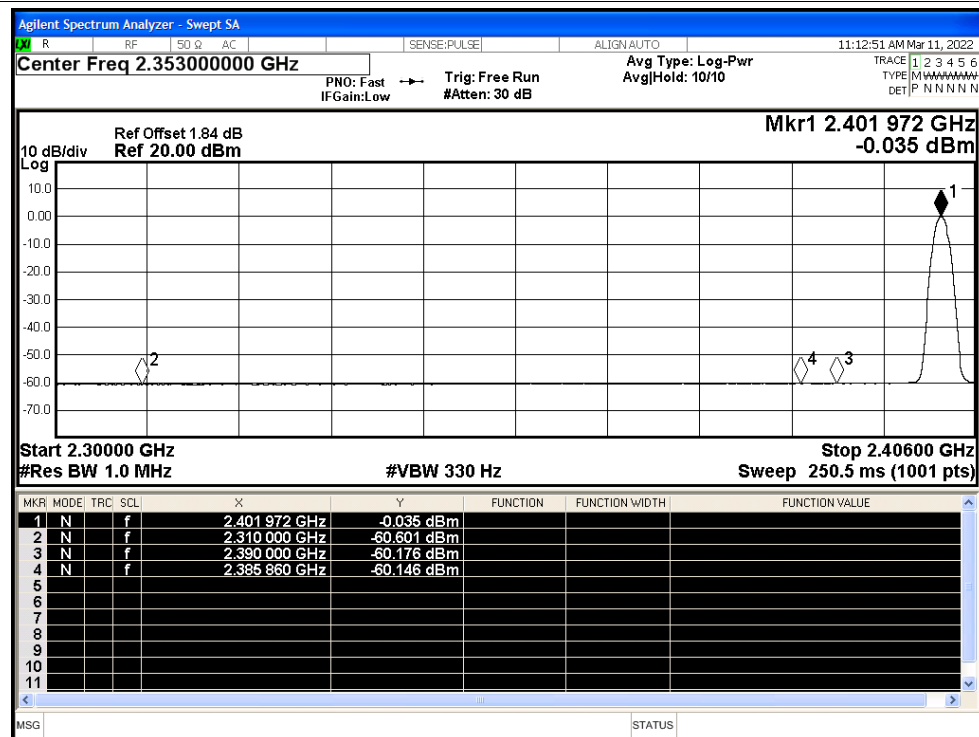


Test Graphs

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

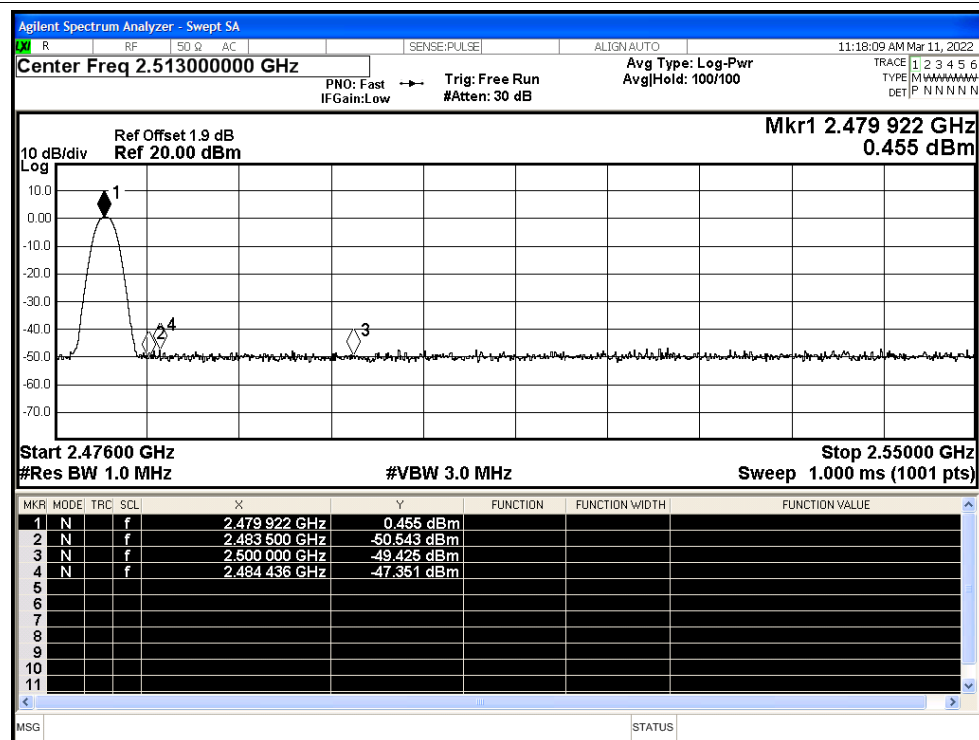


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

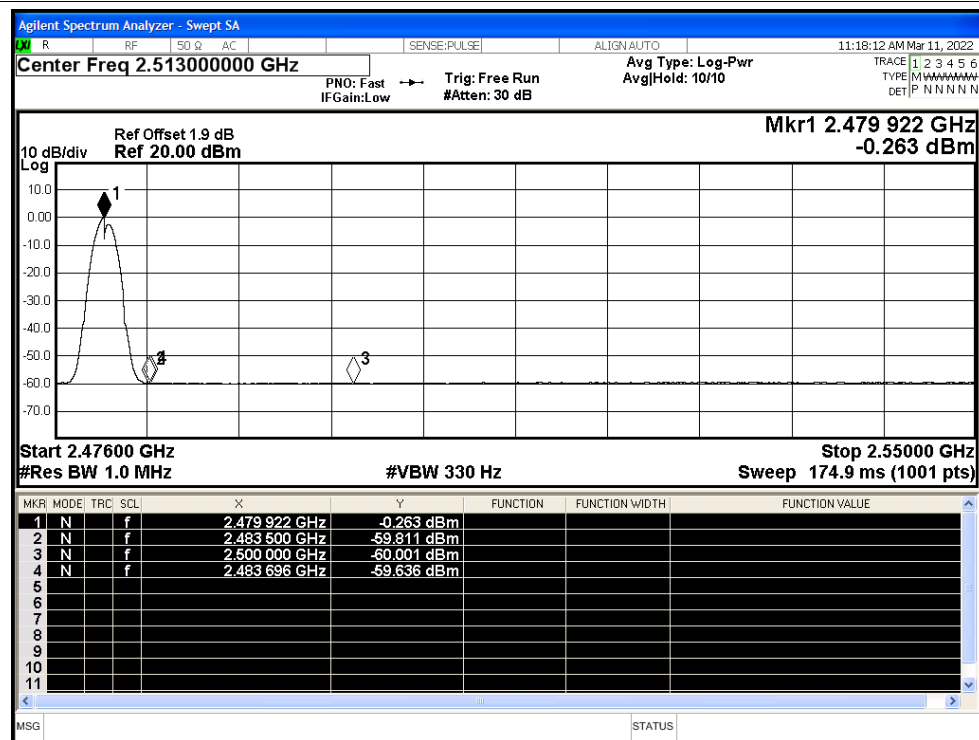




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

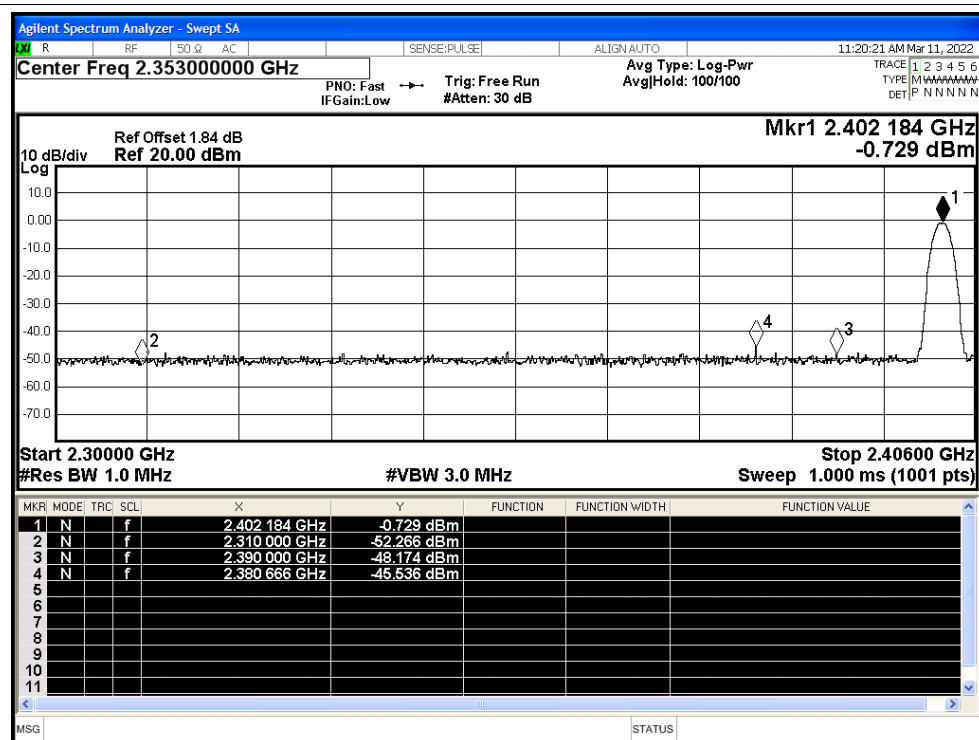


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

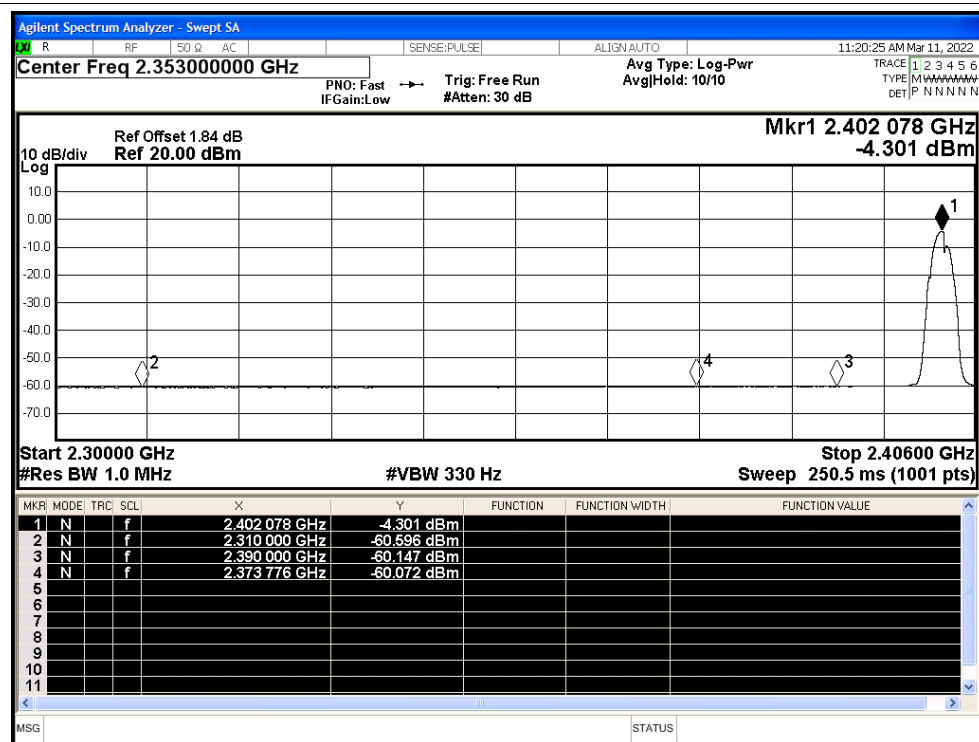




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

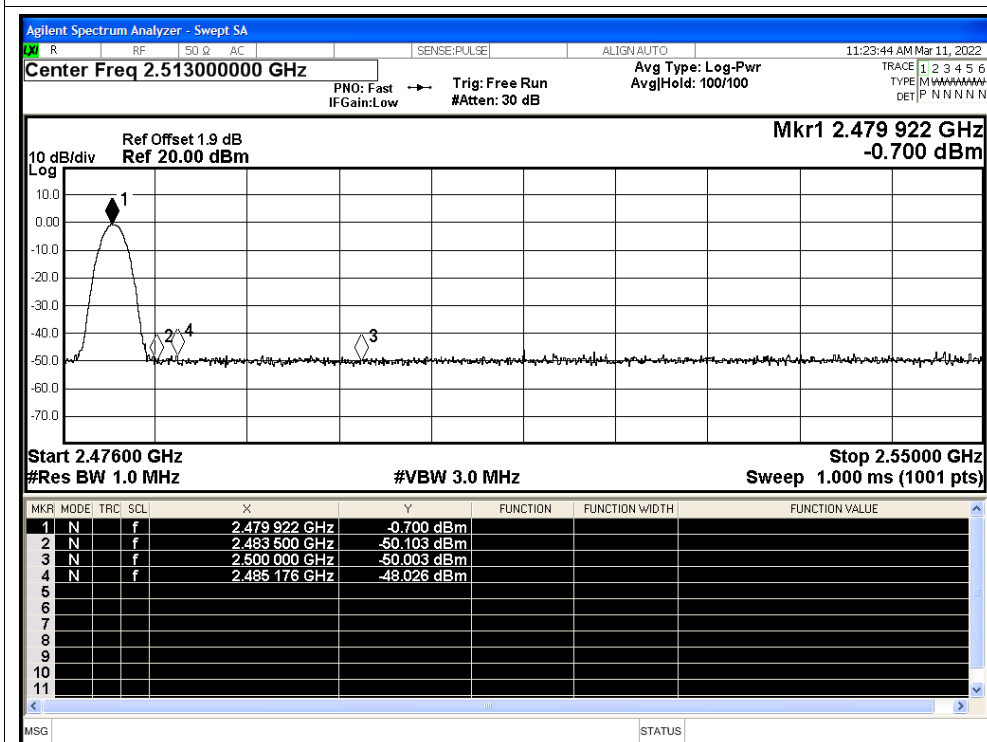


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

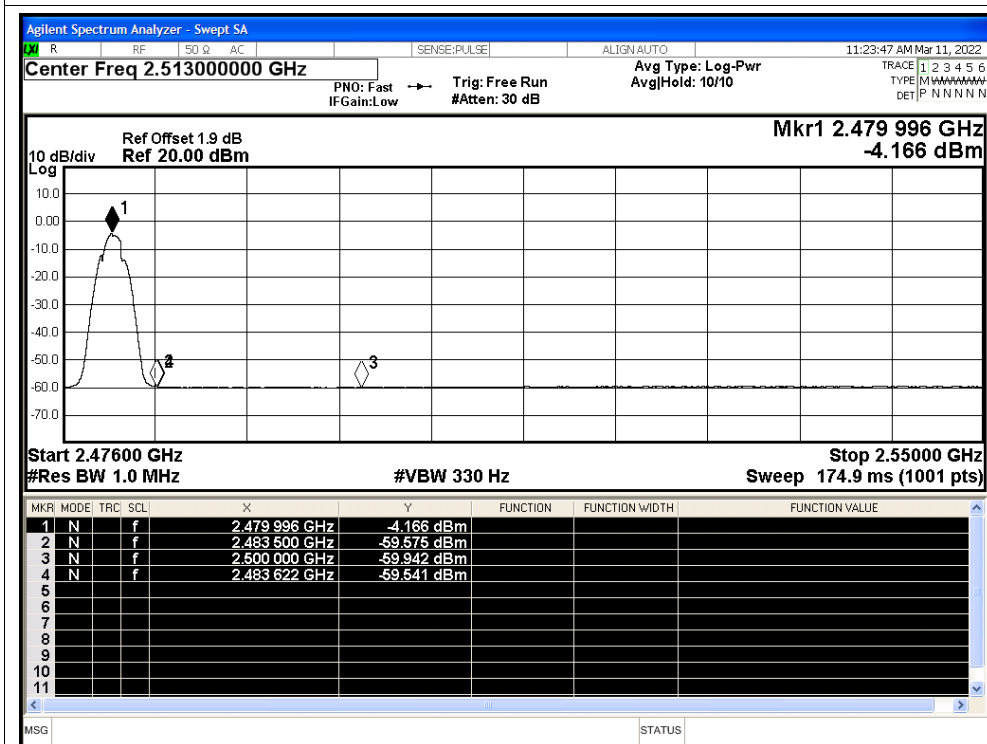




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

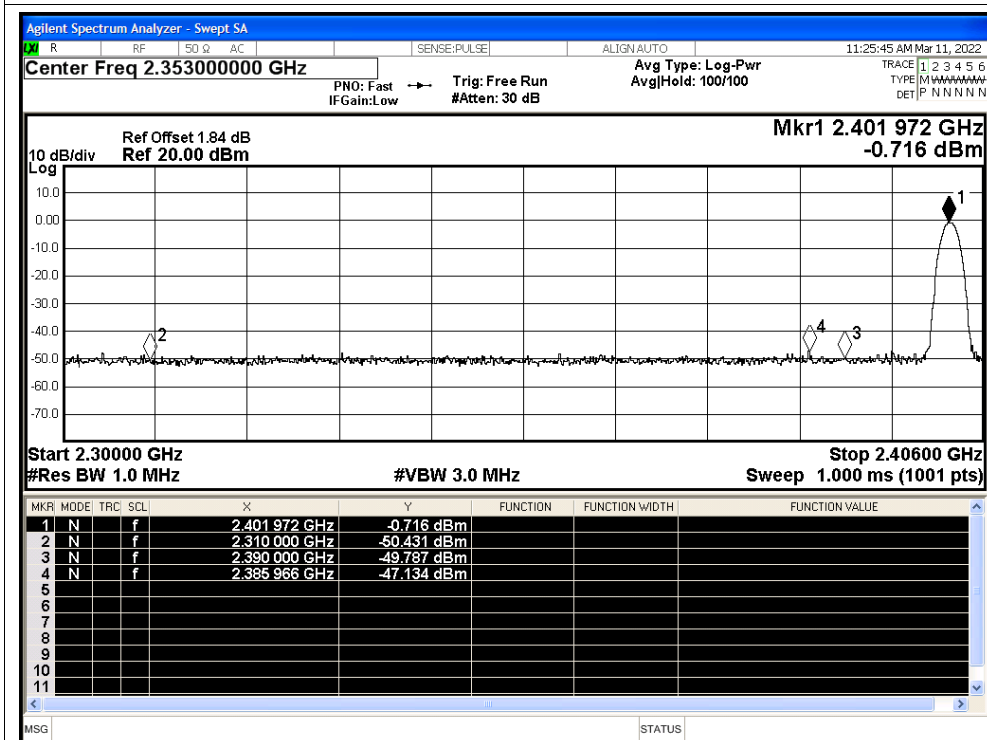


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

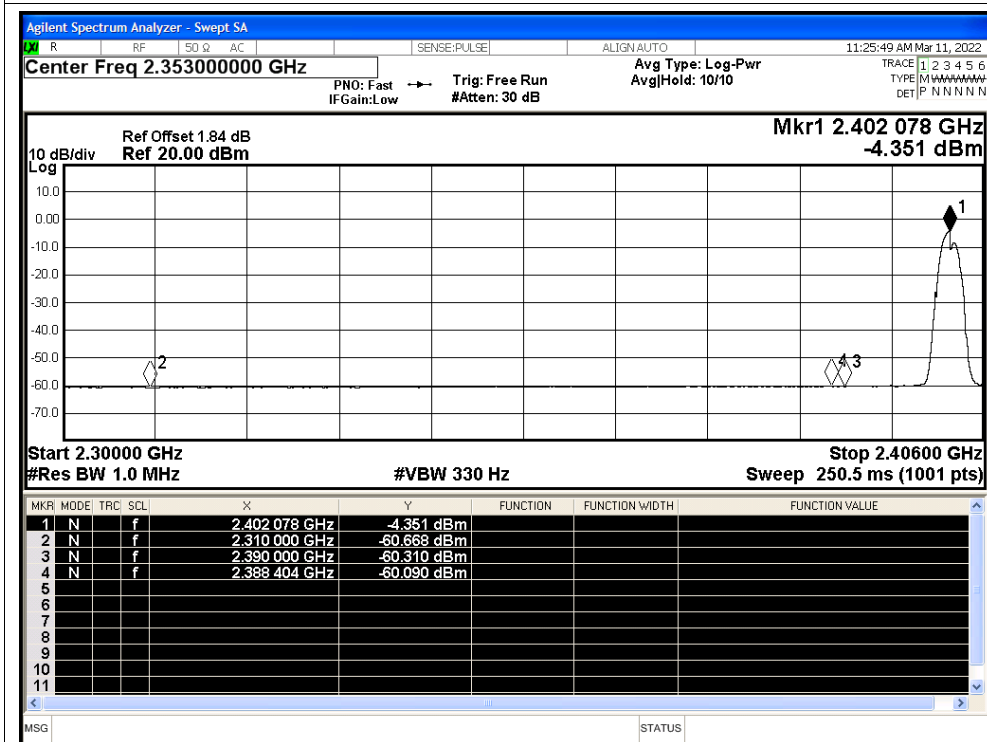




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

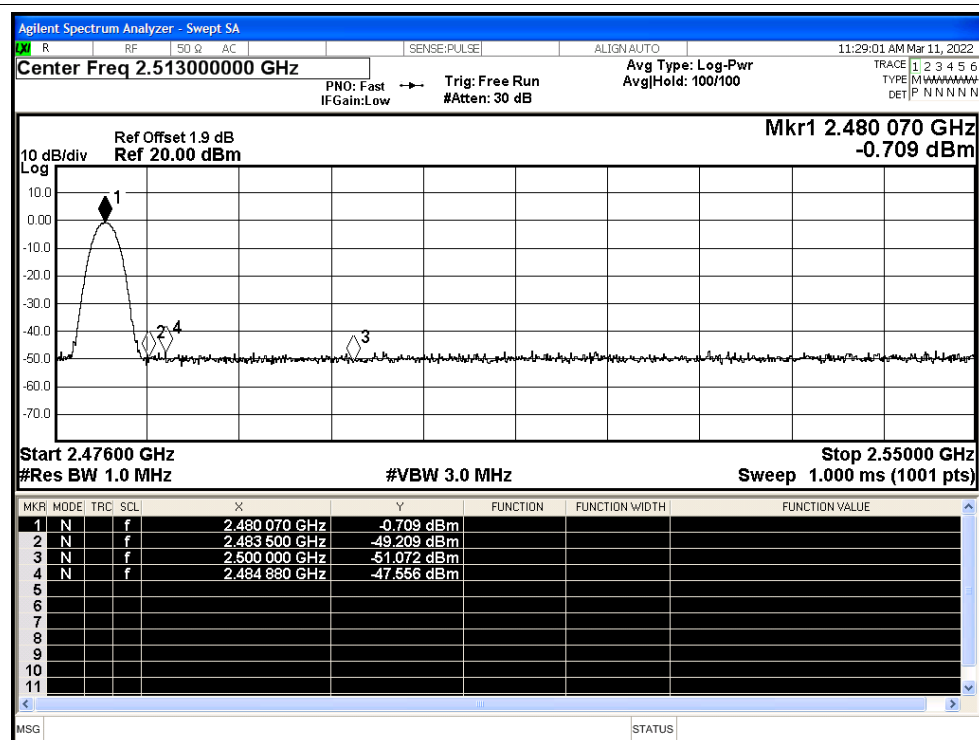


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

