



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: smart phone

Test Model: SOYES MAXo

Environmental Conditions

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



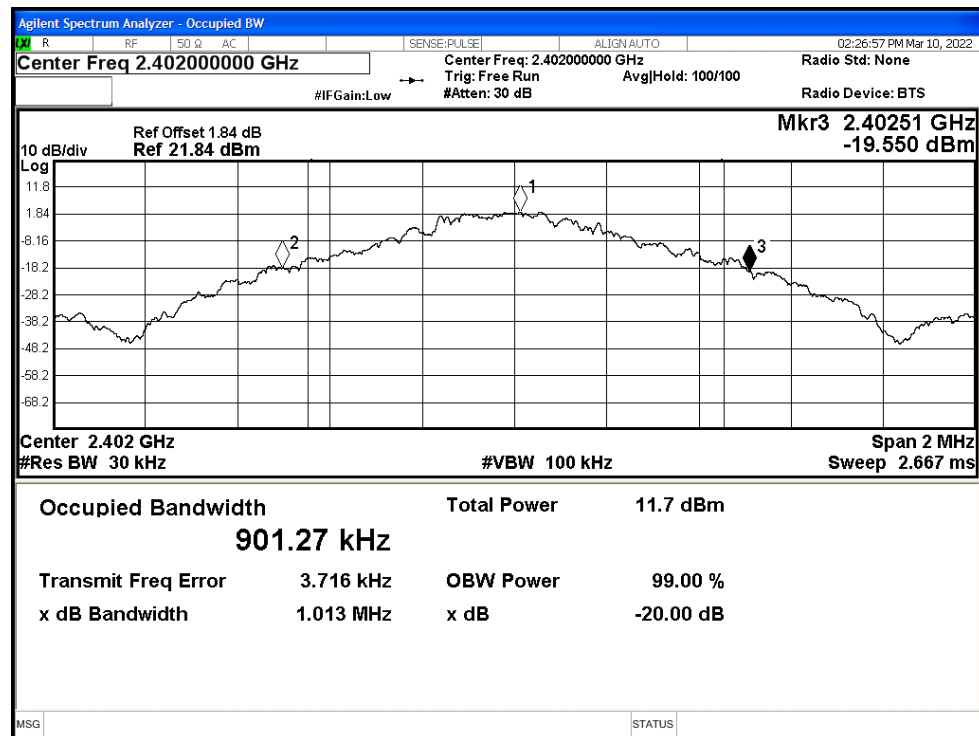
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.013	0	Pass
NVNT	1-DH5	2441	Ant1	1.039	0	Pass
NVNT	1-DH5	2480	Ant1	1.02	0	Pass
NVNT	2-DH5	2402	Ant1	1.288	0	Pass
NVNT	2-DH5	2441	Ant1	1.308	0	Pass
NVNT	2-DH5	2480	Ant1	1.309	0	Pass
NVNT	3-DH5	2402	Ant1	1.313	0	Pass
NVNT	3-DH5	2441	Ant1	1.308	0	Pass
NVNT	3-DH5	2480	Ant1	1.294	0	Pass

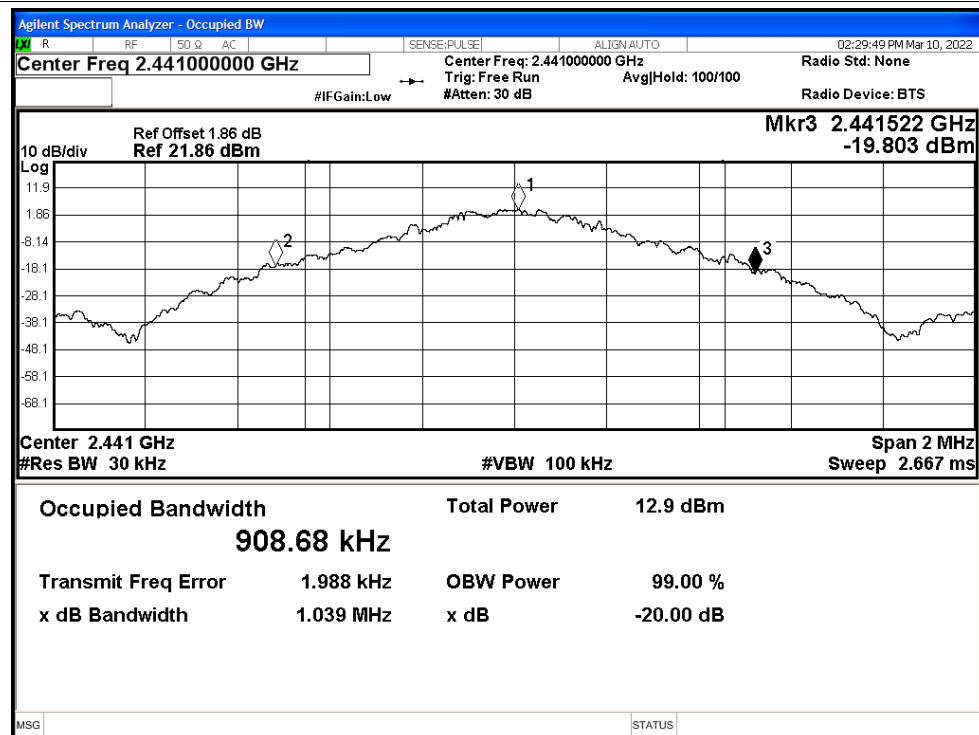


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

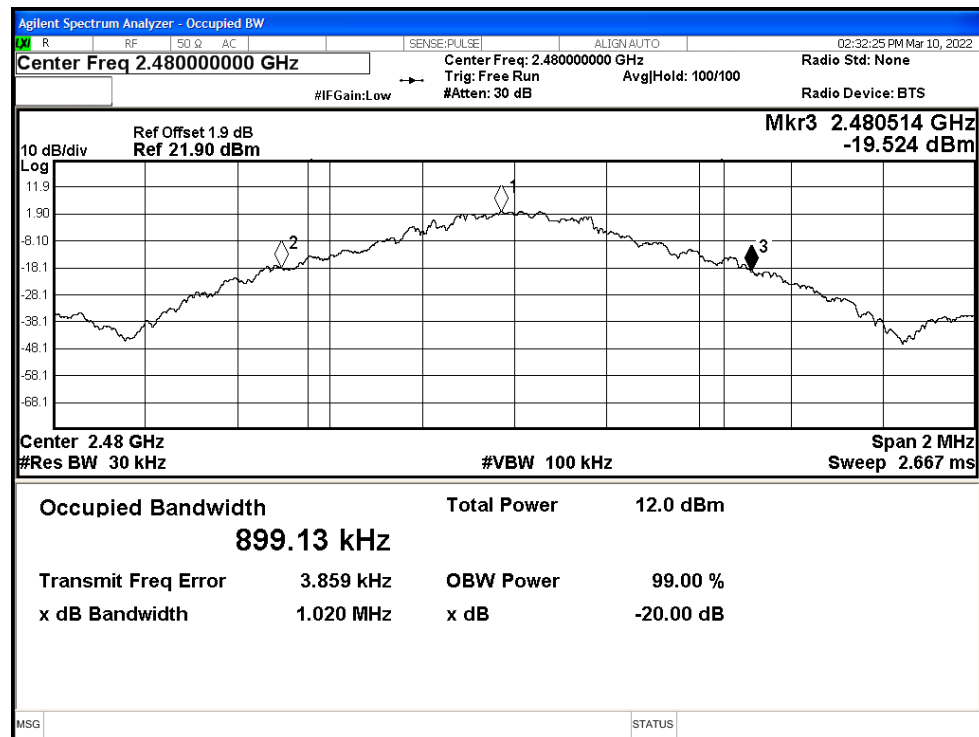


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

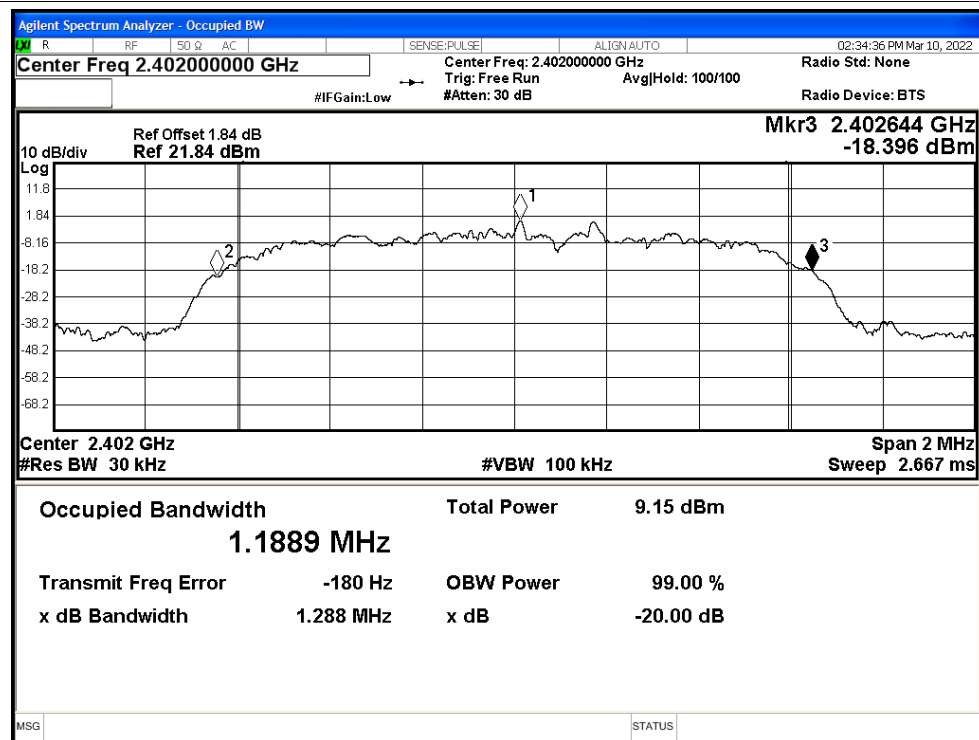




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

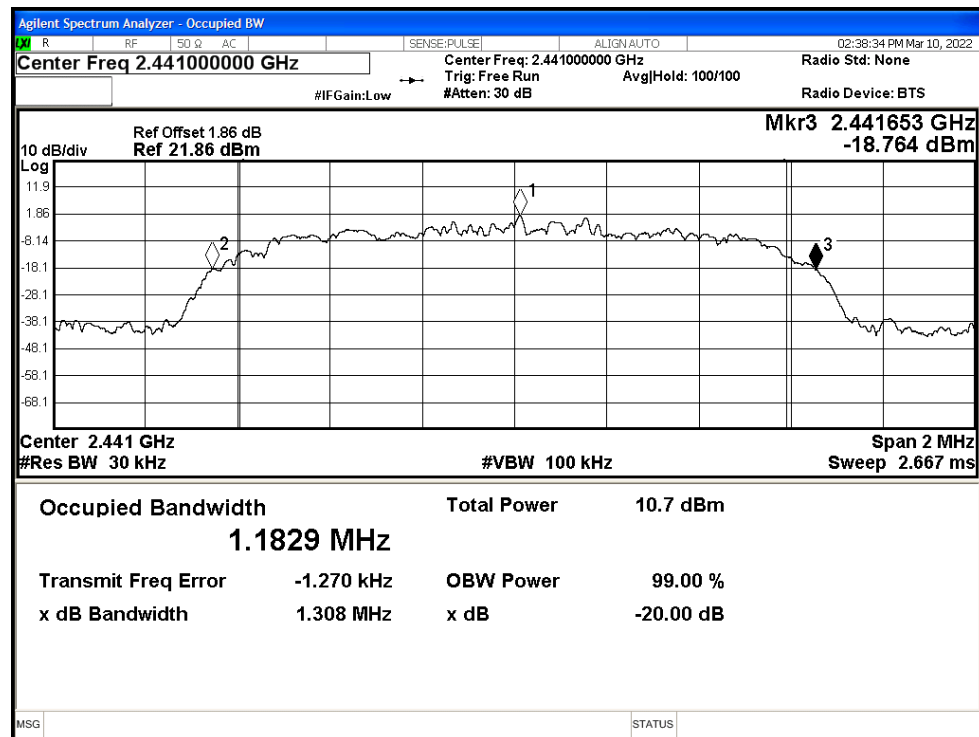


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

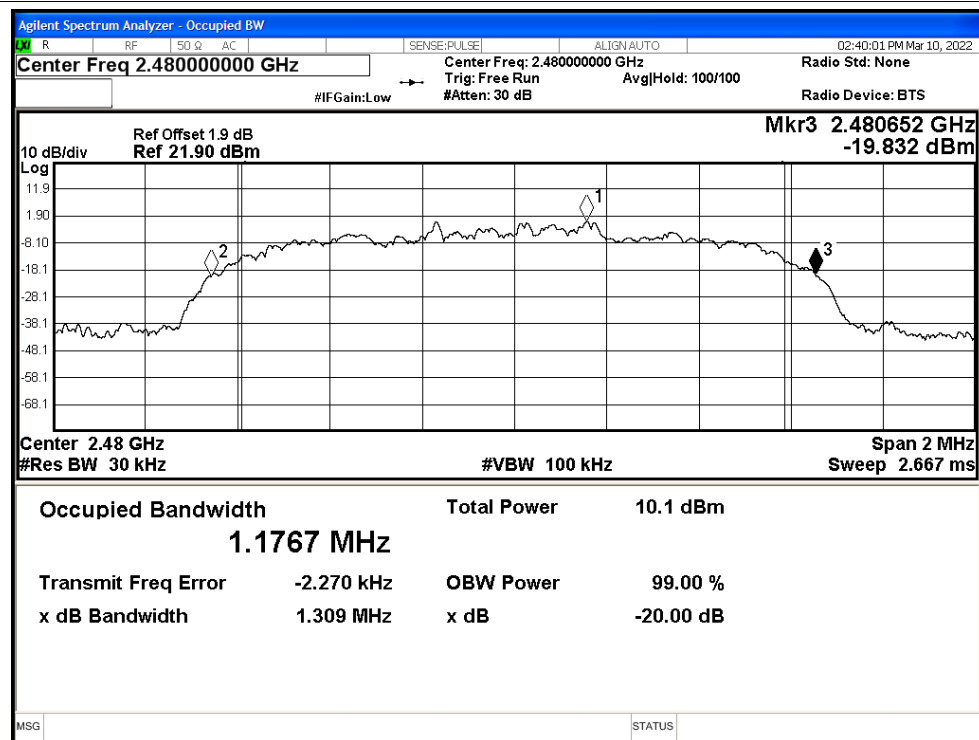




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

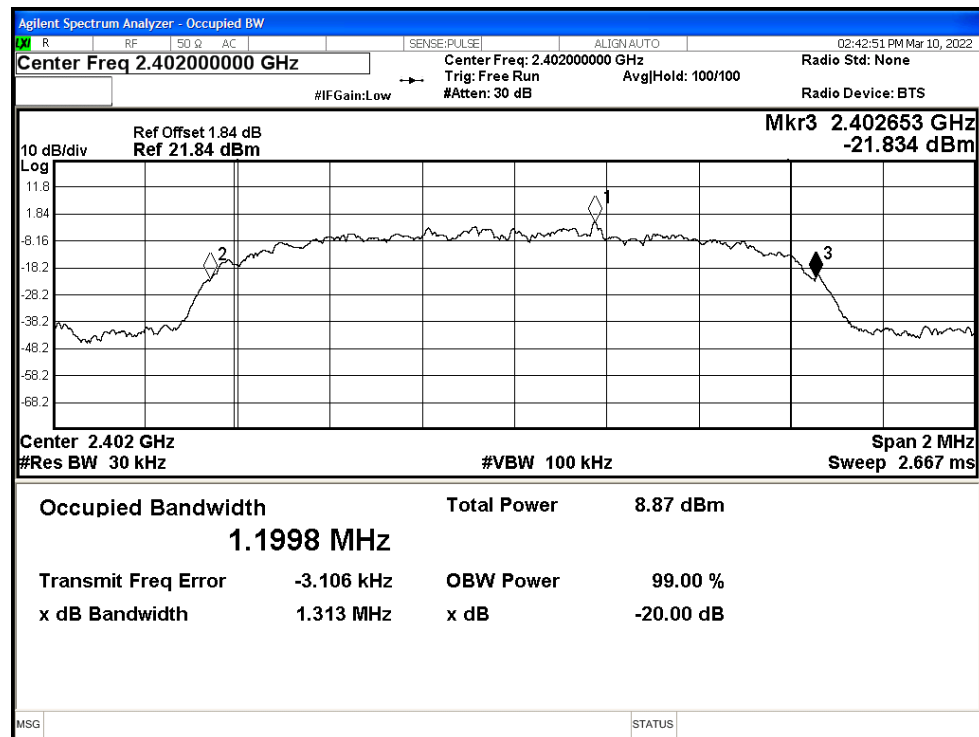


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

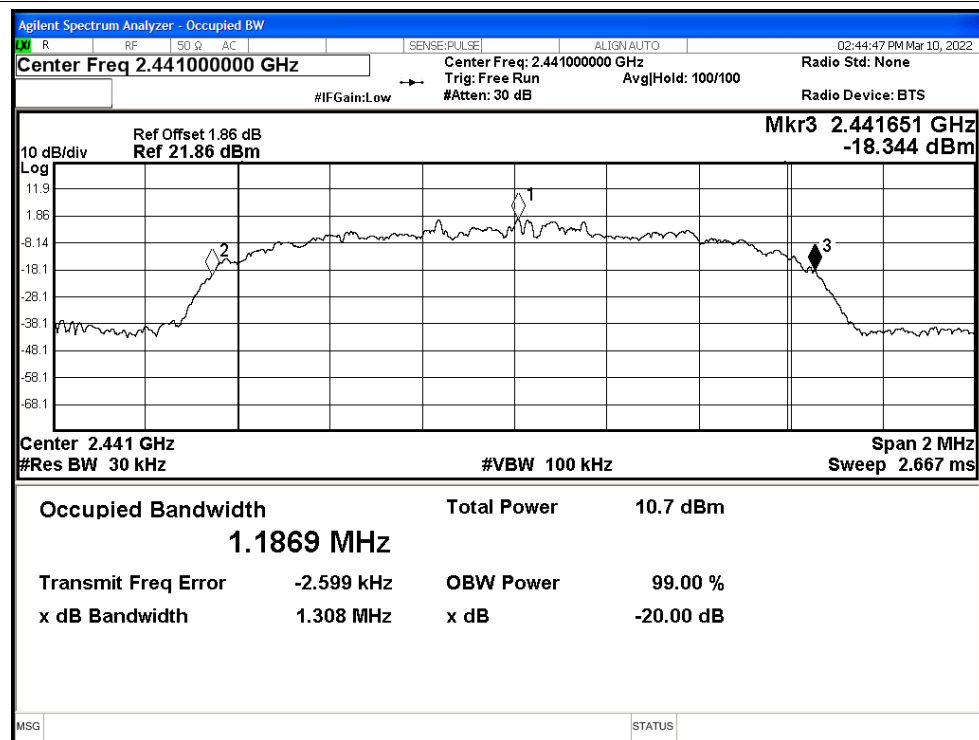




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

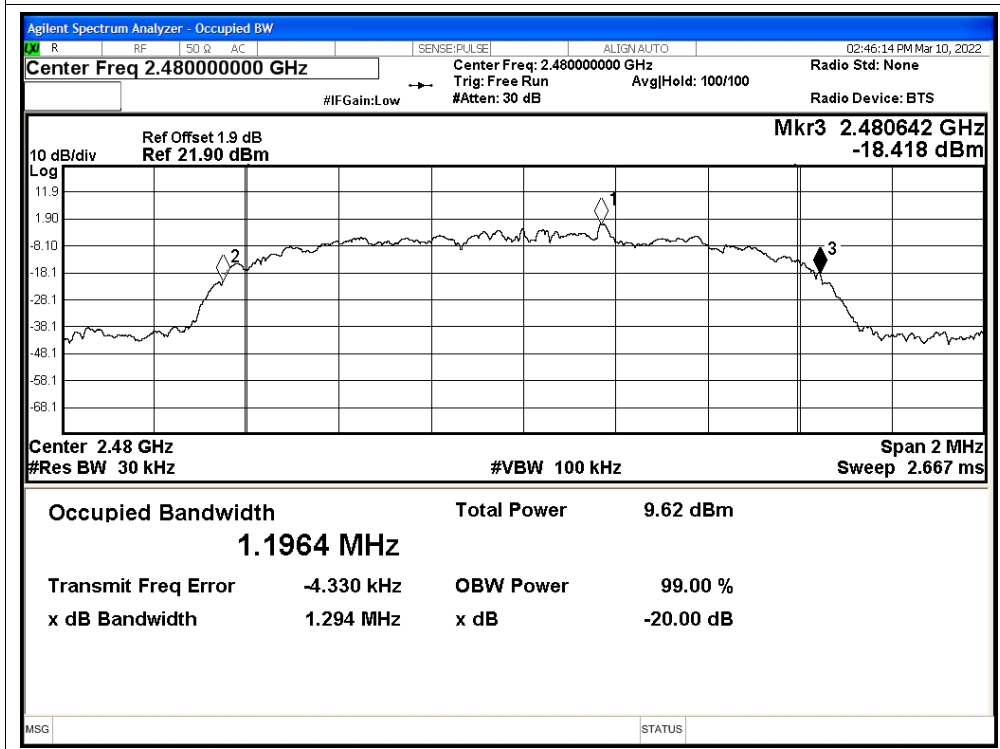


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





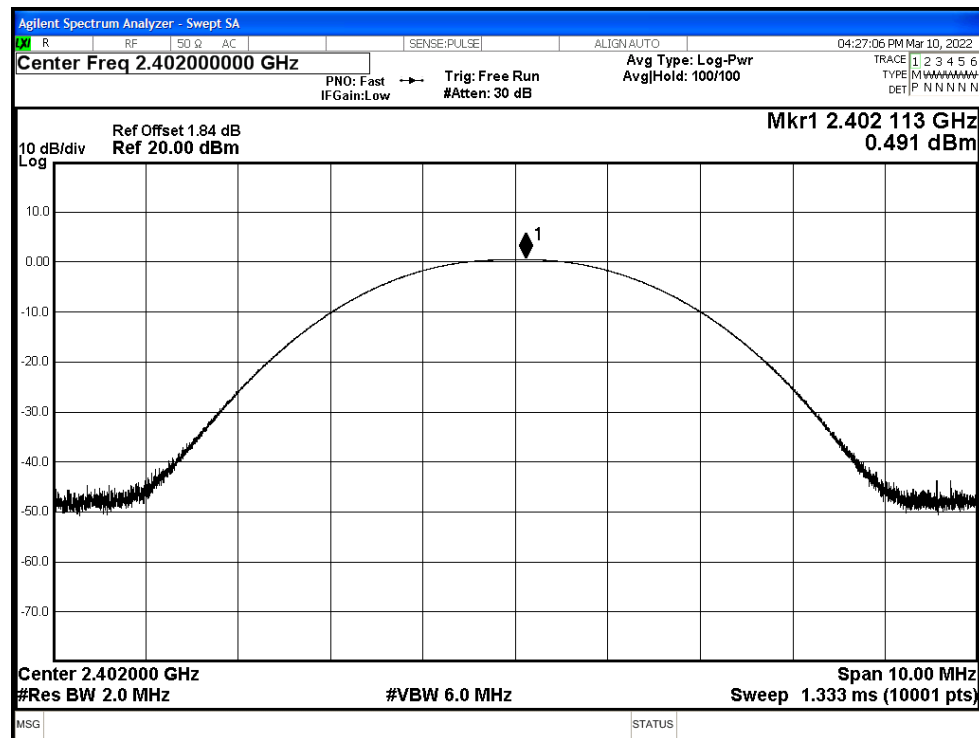
A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.49	0	0.49	21	Pass
NVNT	1-DH5	2441	Ant1	1.79	0	1.79	21	Pass
NVNT	1-DH5	2480	Ant1	0.34	0	0.34	21	Pass
NVNT	2-DH5	2402	Ant1	-0.33	0	-0.33	21	Pass
NVNT	2-DH5	2441	Ant1	0.92	0	0.92	21	Pass
NVNT	2-DH5	2480	Ant1	-0.45	0	-0.45	21	Pass
NVNT	3-DH5	2402	Ant1	-0.25	0	-0.25	21	Pass
NVNT	3-DH5	2441	Ant1	1.09	0	1.09	21	Pass
NVNT	3-DH5	2480	Ant1	-0.31	0	-0.31	21	Pass

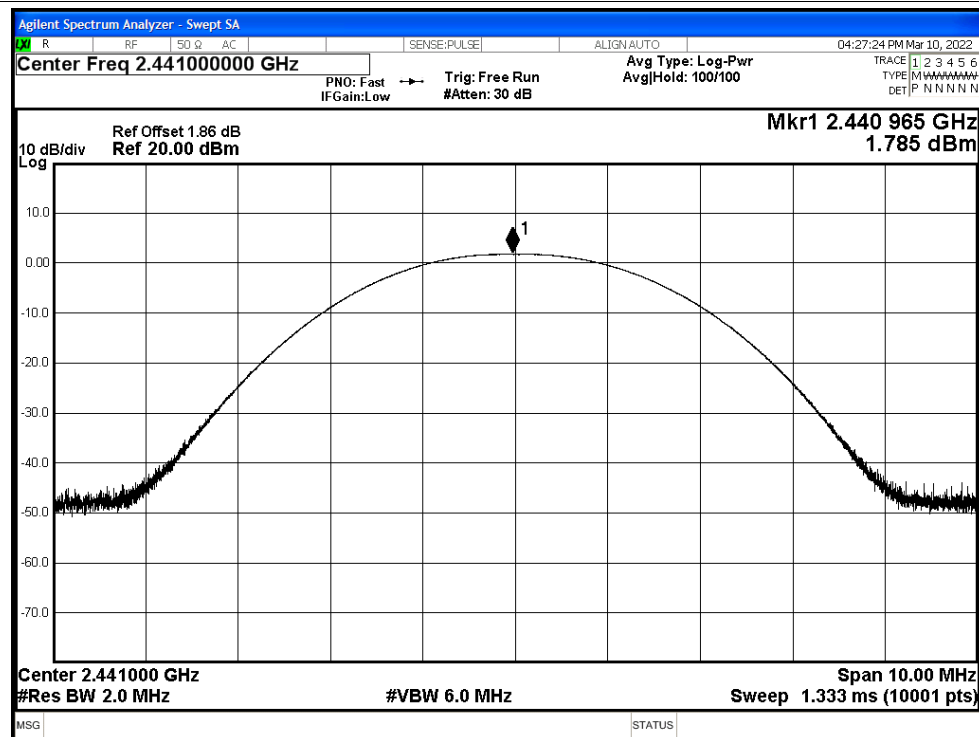


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

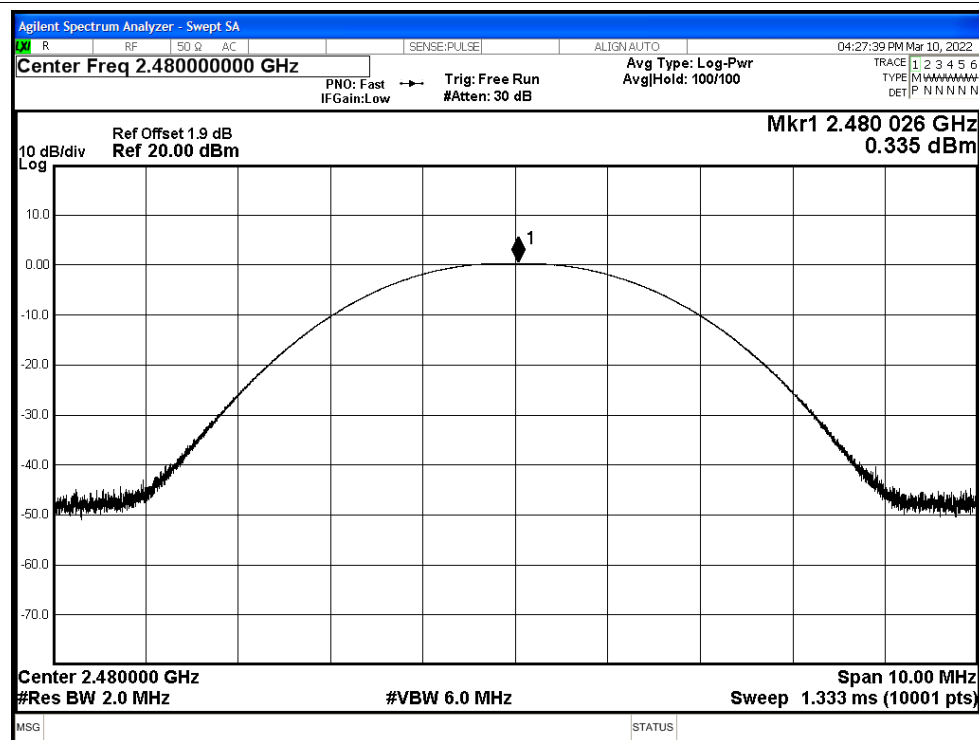


Power NVNT 1-DH5 2441MHz Ant1

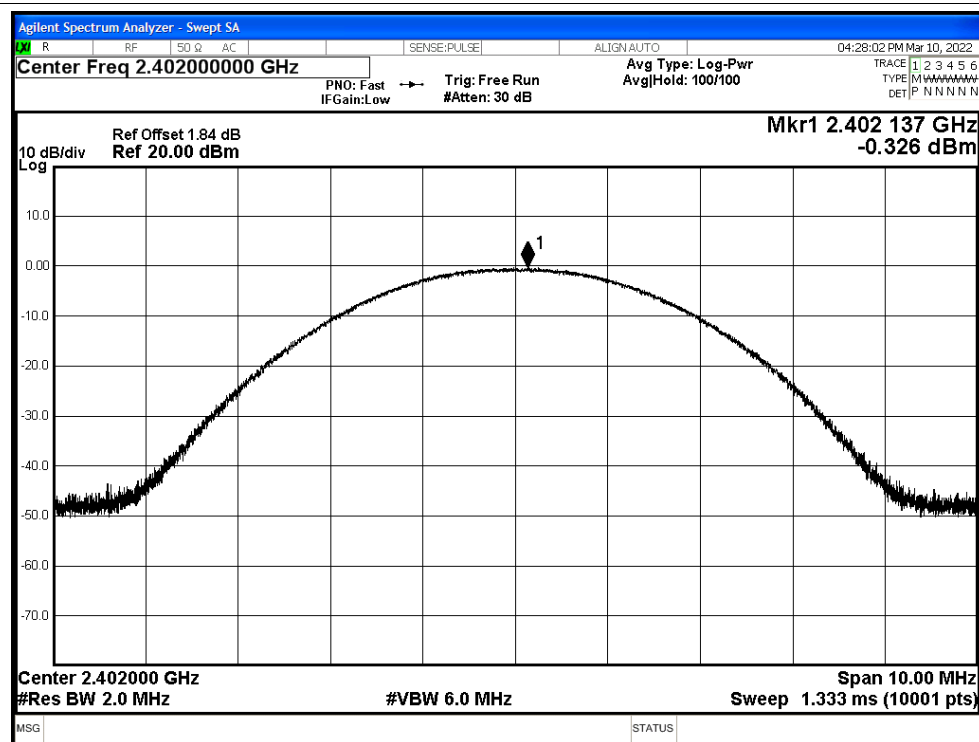




Power NVNT 1-DH5 2480MHz Ant1

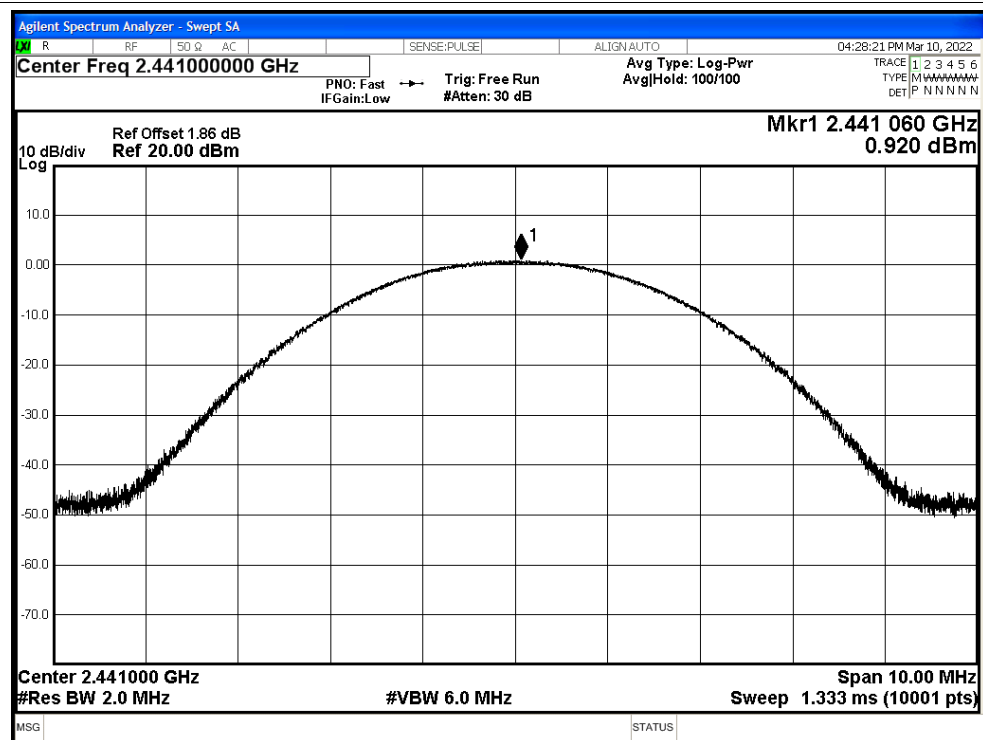


Power NVNT 2-DH5 2402MHz Ant1

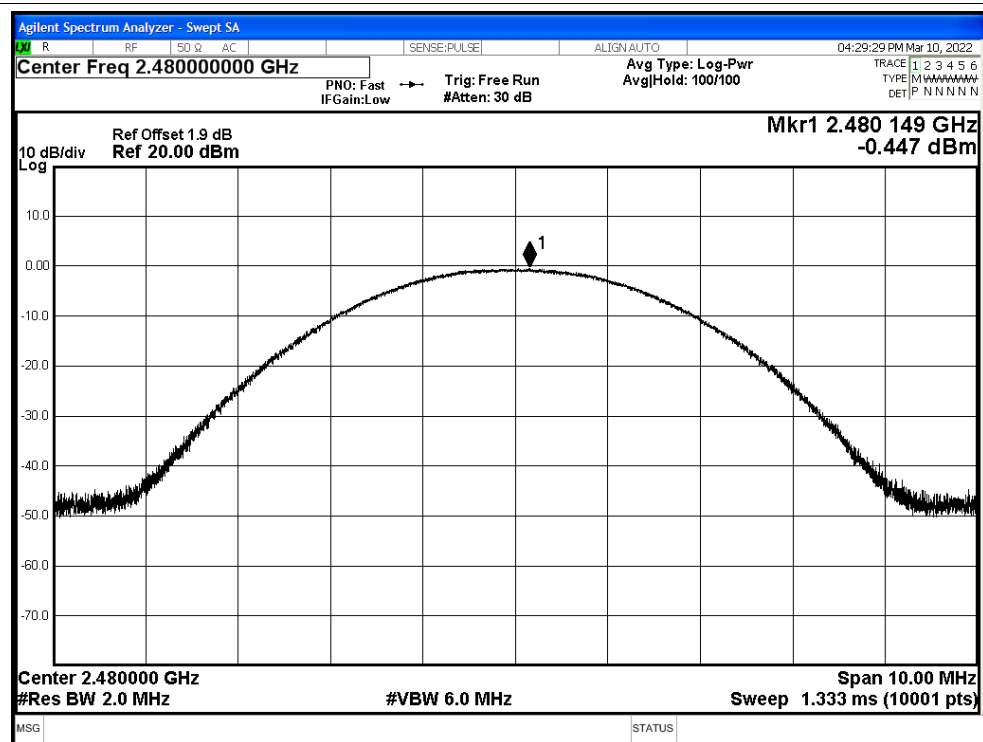




Power NVNT 2-DH5 2441MHz Ant1

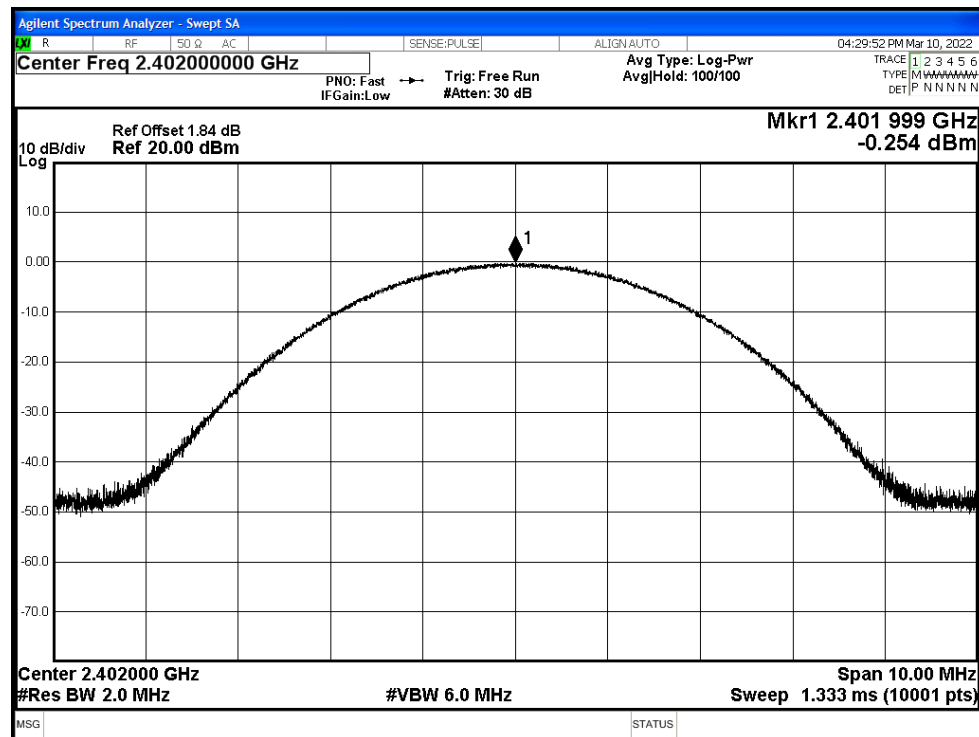


Power NVNT 2-DH5 2480MHz Ant1

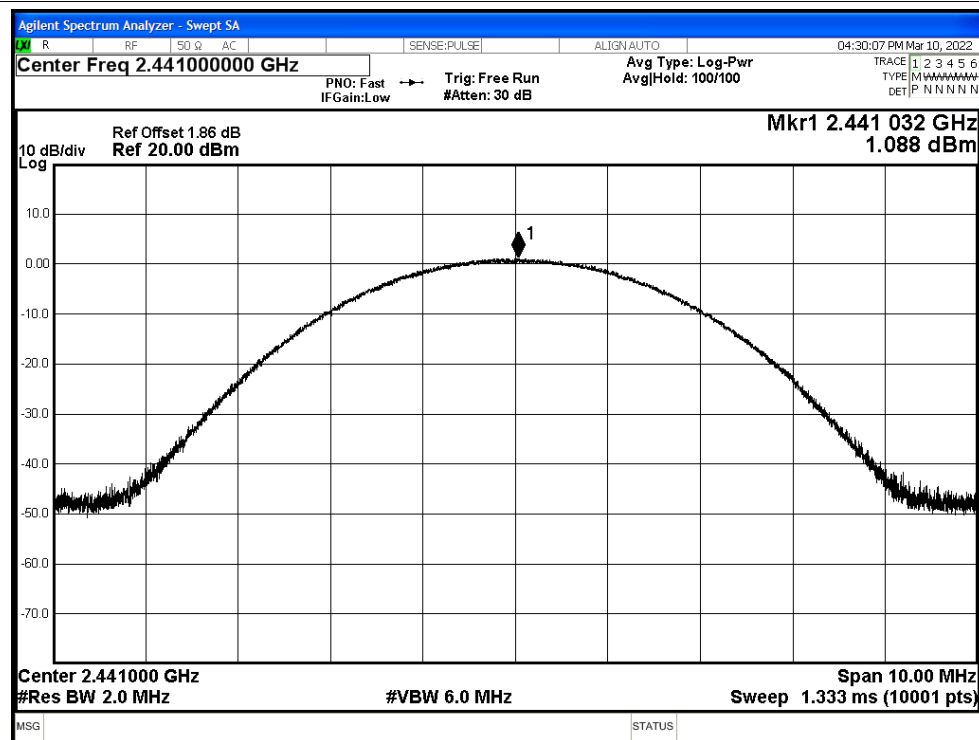


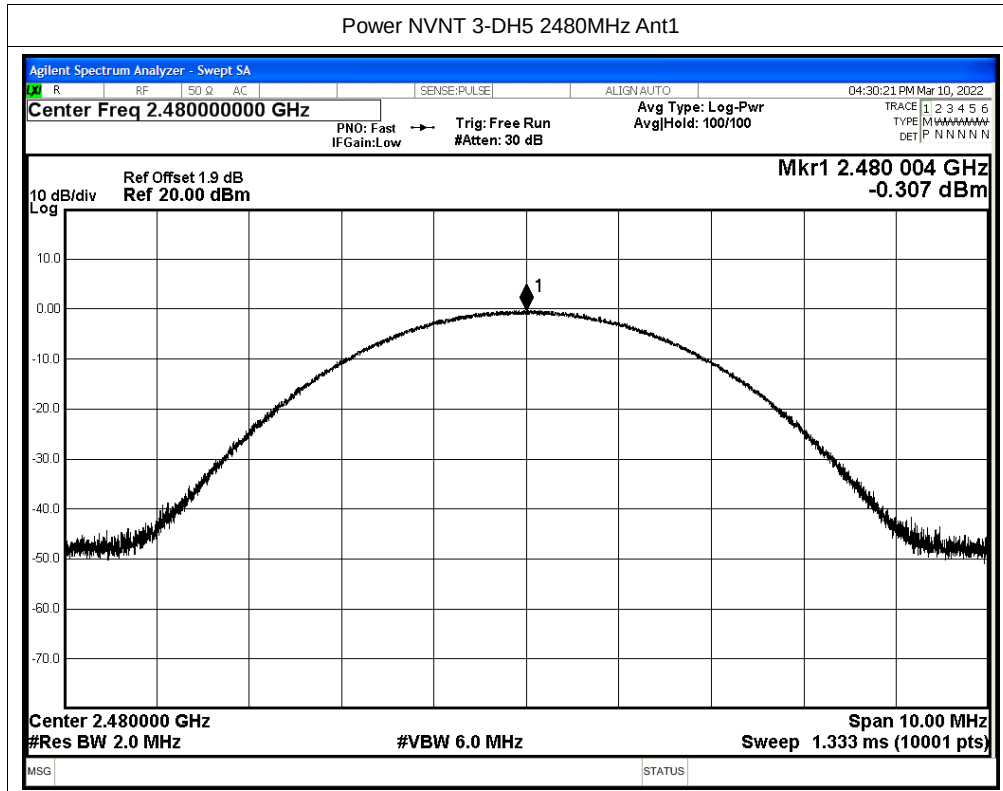


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







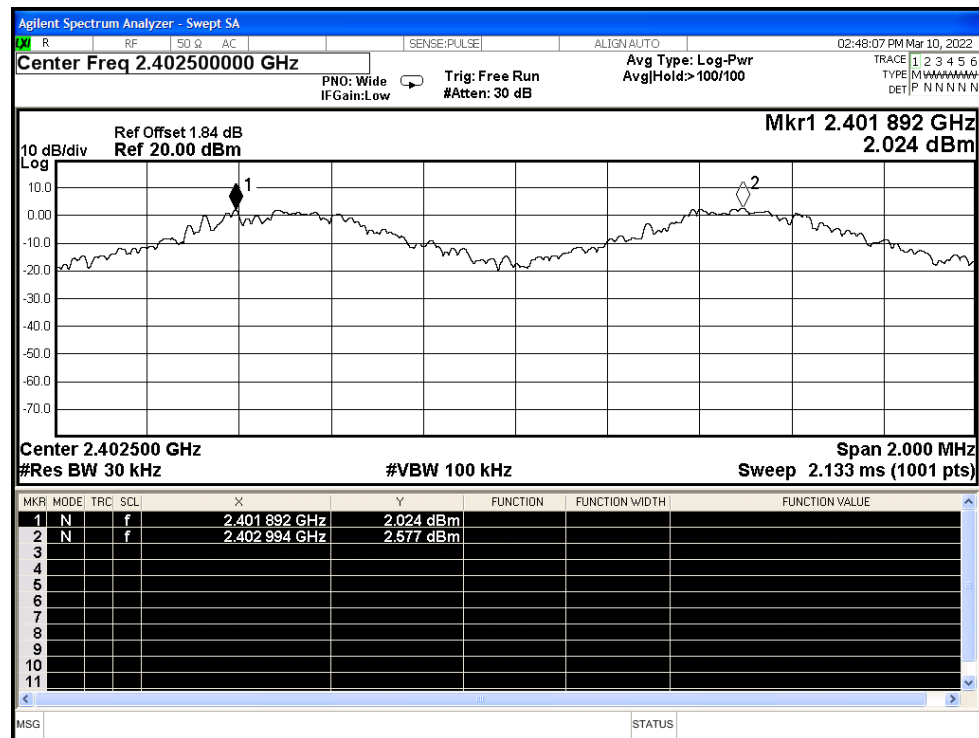
A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.892	2402.994	1.102	0.675	Pass
NVNT	1-DH5	Ant1	2440.976	2442.01	1.034	0.693	Pass
NVNT	1-DH5	Ant1	2479.022	2479.89	0.868	0.68	Pass
NVNT	2-DH5	Ant1	2402.002	2403.162	1.16	0.859	Pass
NVNT	2-DH5	Ant1	2441.022	2442.05	1.028	0.872	Pass
NVNT	2-DH5	Ant1	2479.162	2480.16	0.998	0.873	Pass
NVNT	3-DH5	Ant1	2402.164	2403.16	0.996	0.875	Pass
NVNT	3-DH5	Ant1	2441.016	2442.014	0.998	0.872	Pass
NVNT	3-DH5	Ant1	2479.156	2480.158	1.002	0.863	Pass

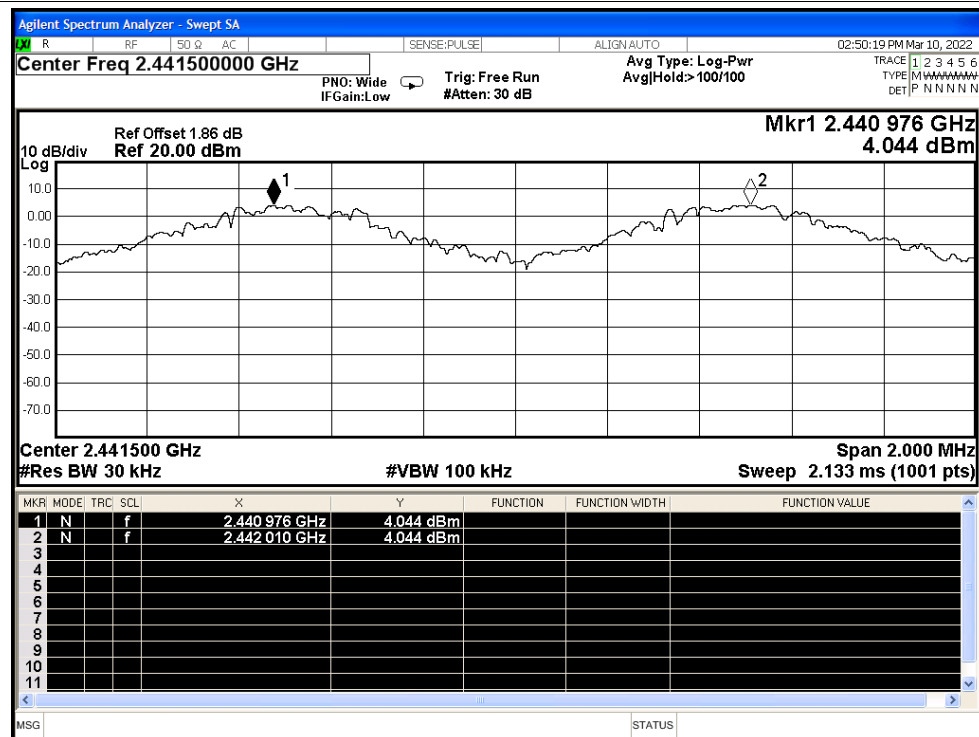


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

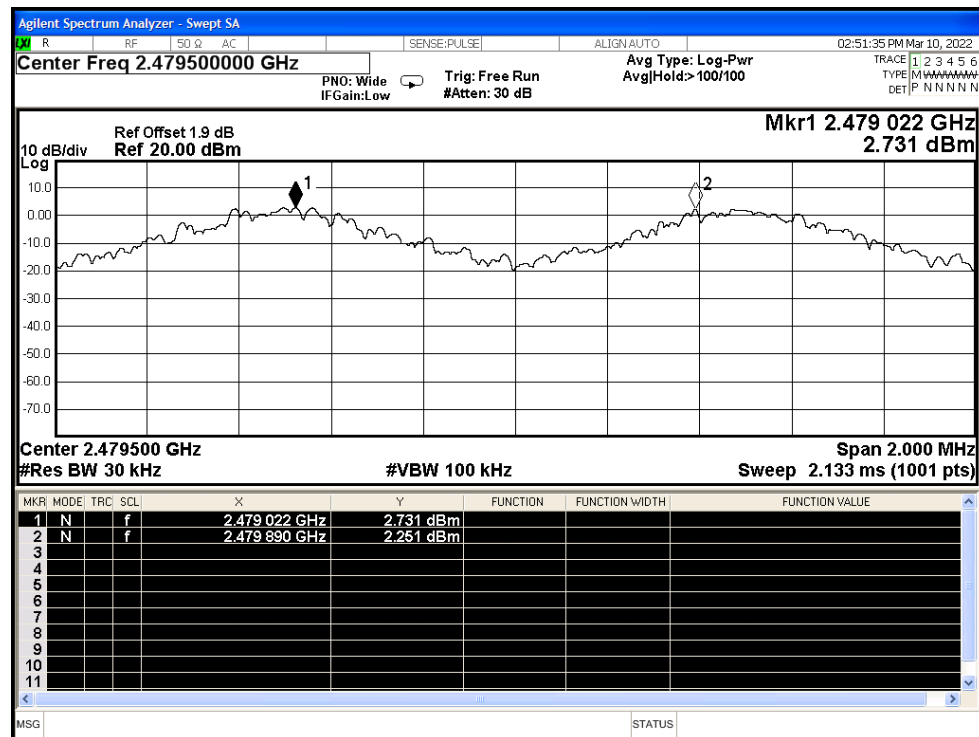


CFS NVNT 1-DH5 2441MHz Ant1

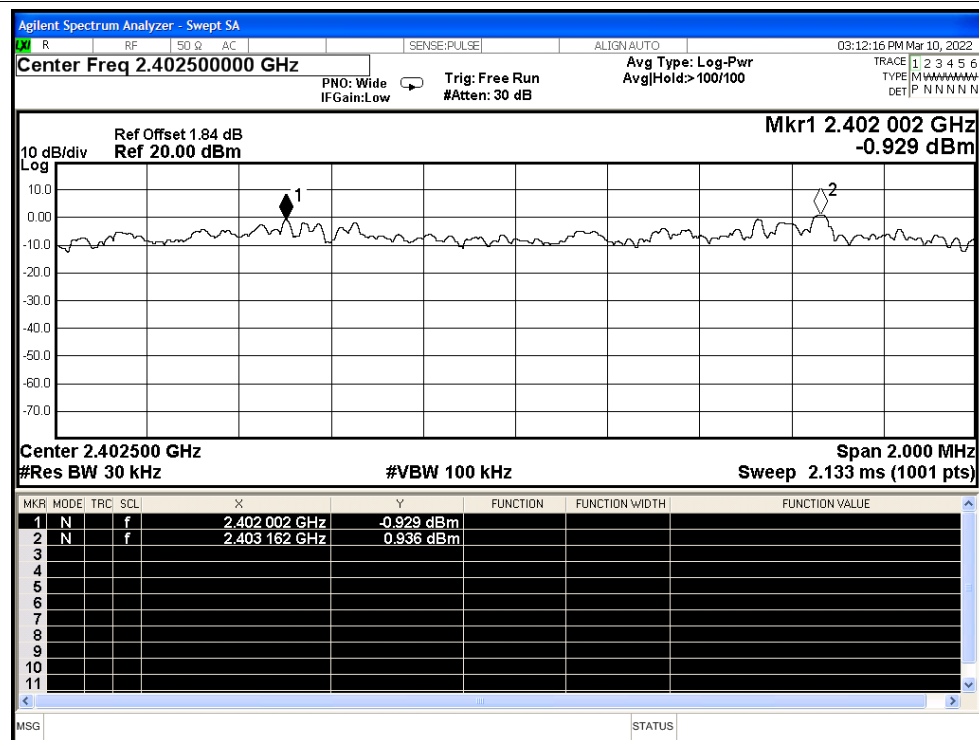




CFS NVNT 1-DH5 2480MHz Ant1

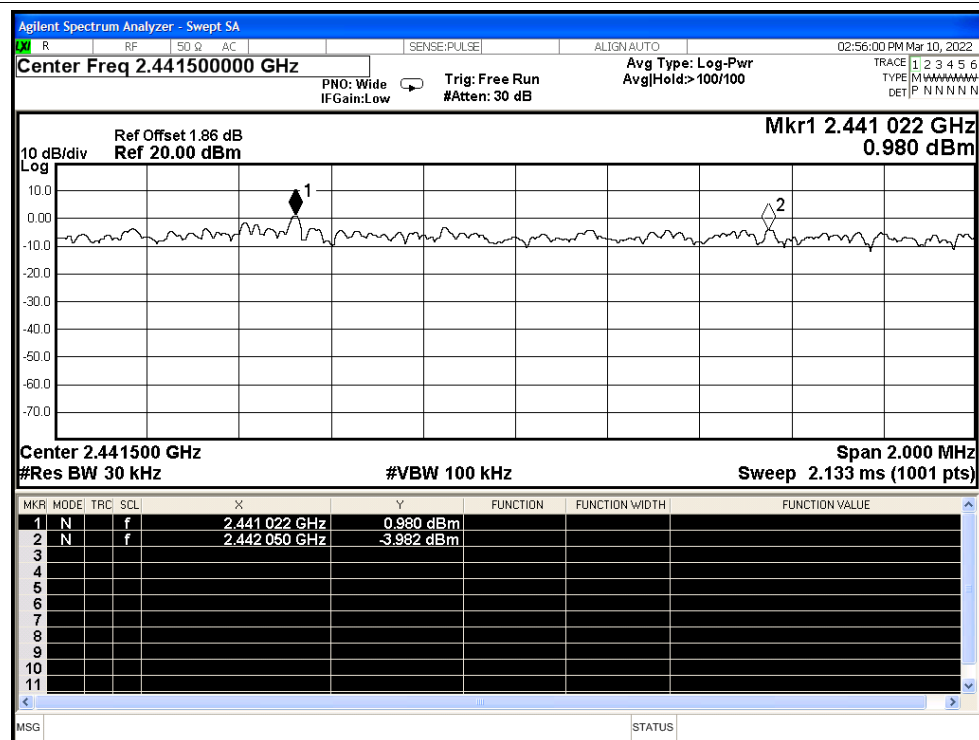


CFS NVNT 2-DH5 2402MHz Ant1

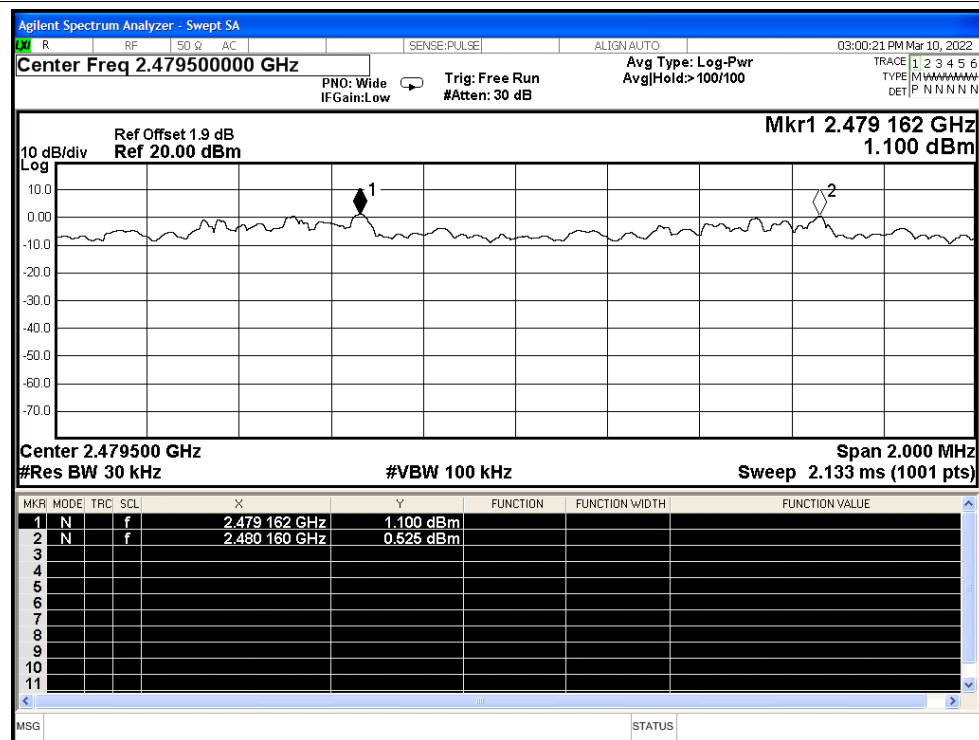




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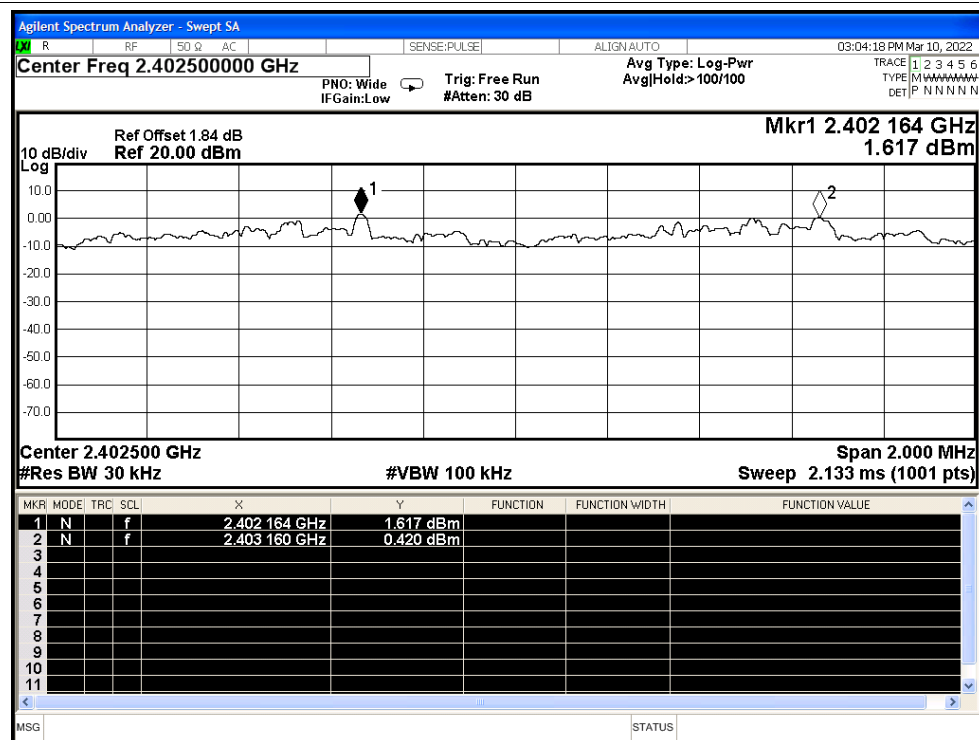


CFS NVNT 2-DH5 2480MHz Ant1

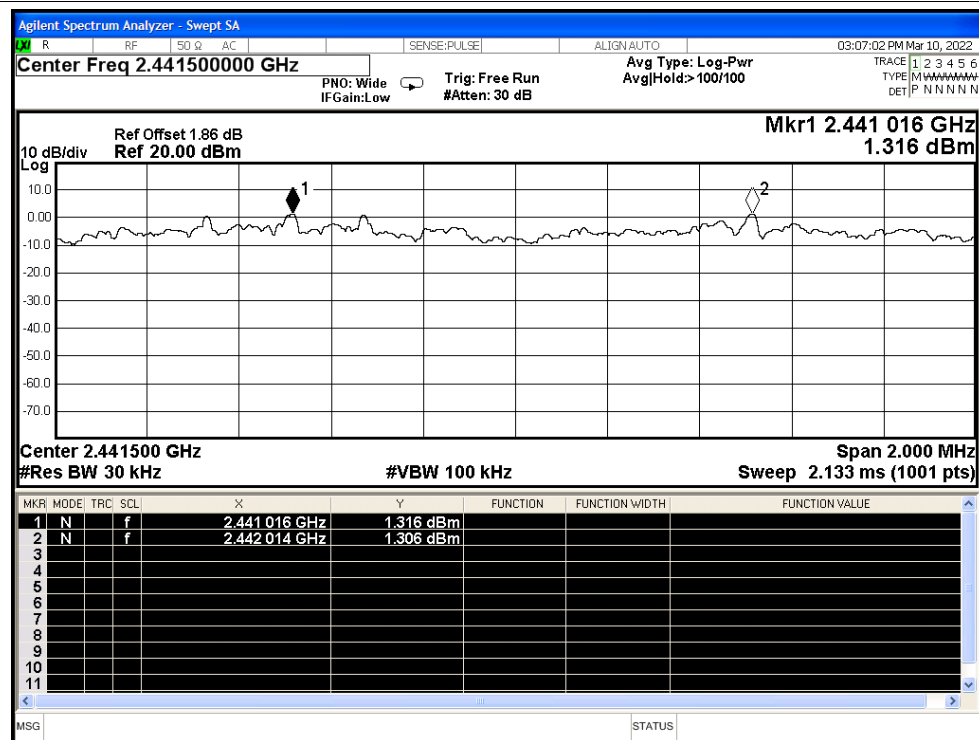


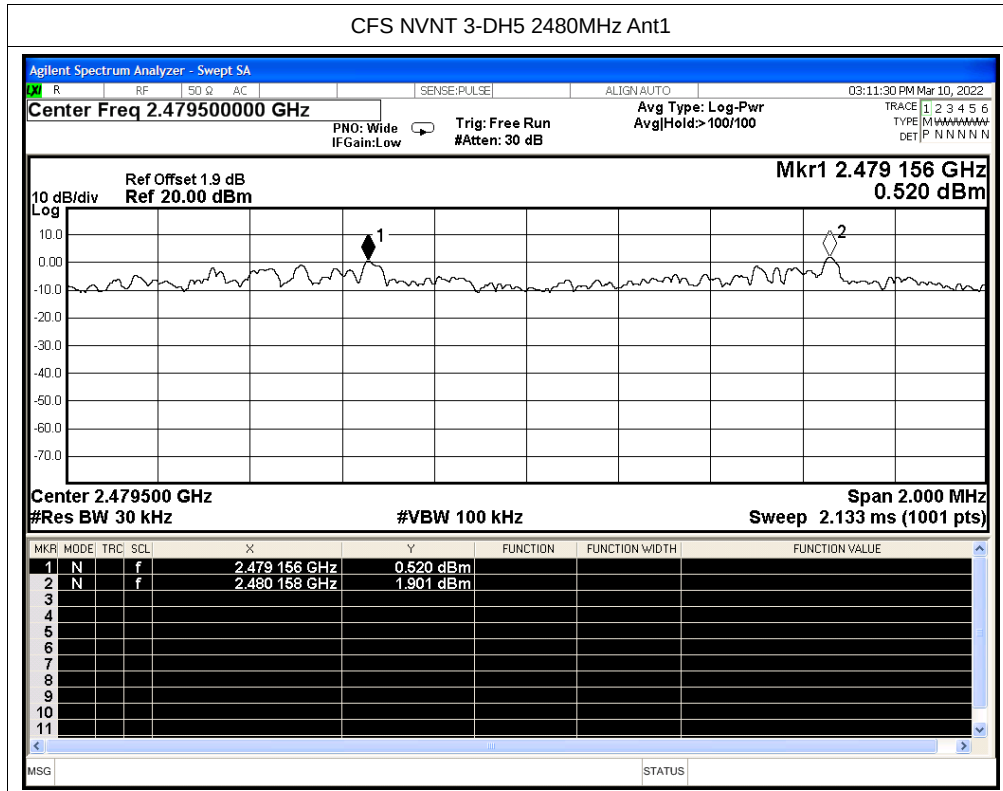


CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1







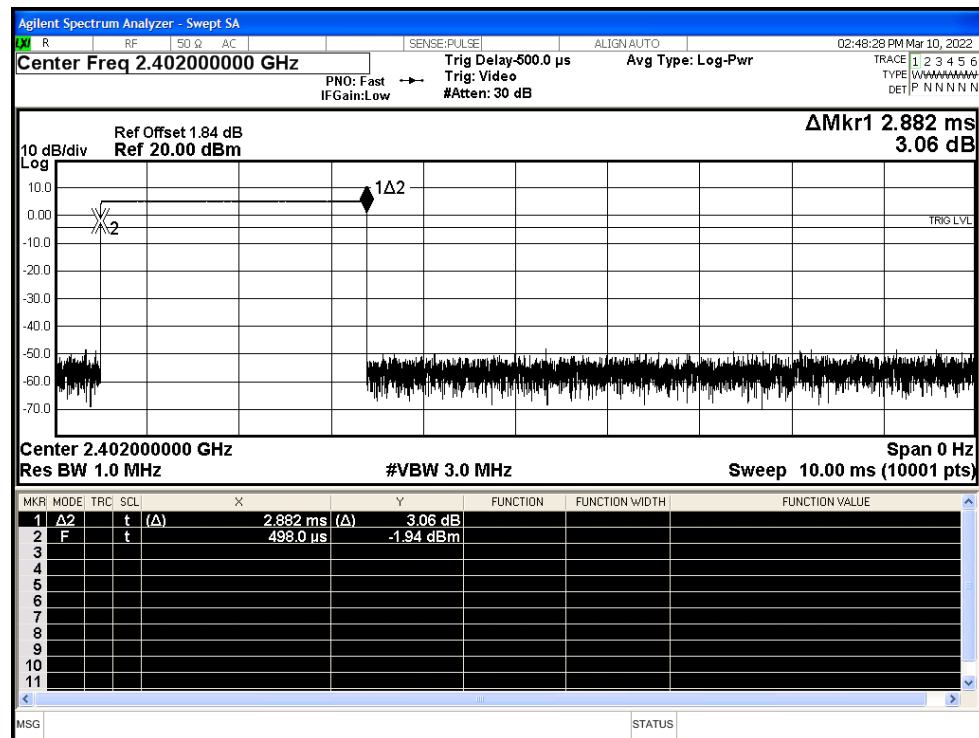
A.4 Dwell Time

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	334.312	116	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.881	305.386	106	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	319.902	111	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	262.535	91	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.885	308.695	107	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.885	271.19	94	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	279.942	97	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.887	308.909	107	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	308.909	107	31600	400	Pass

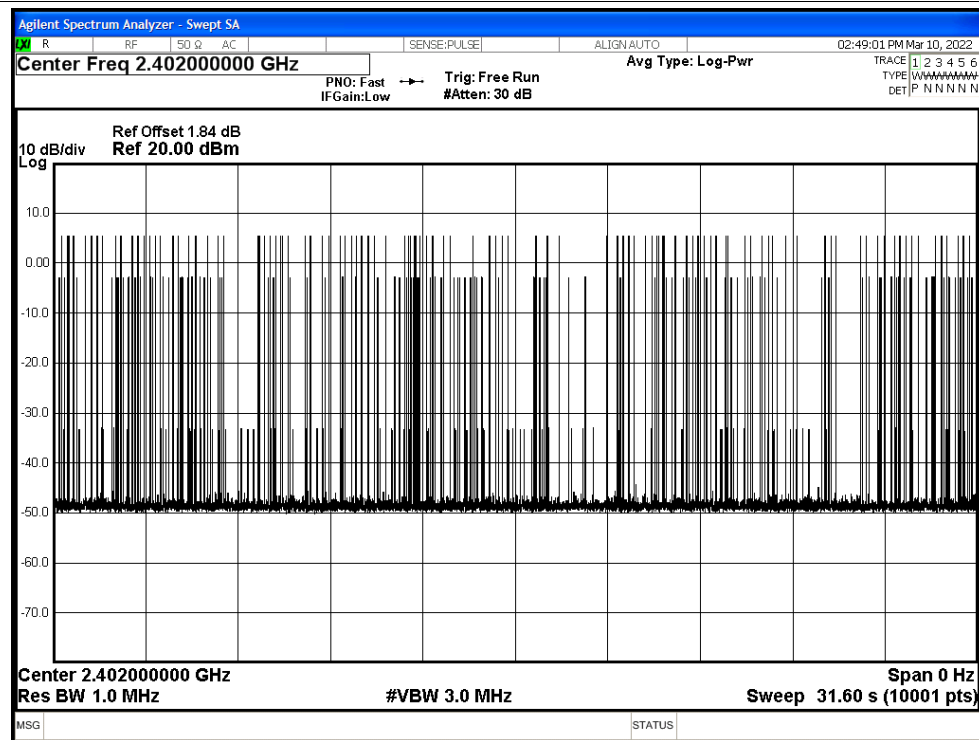


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

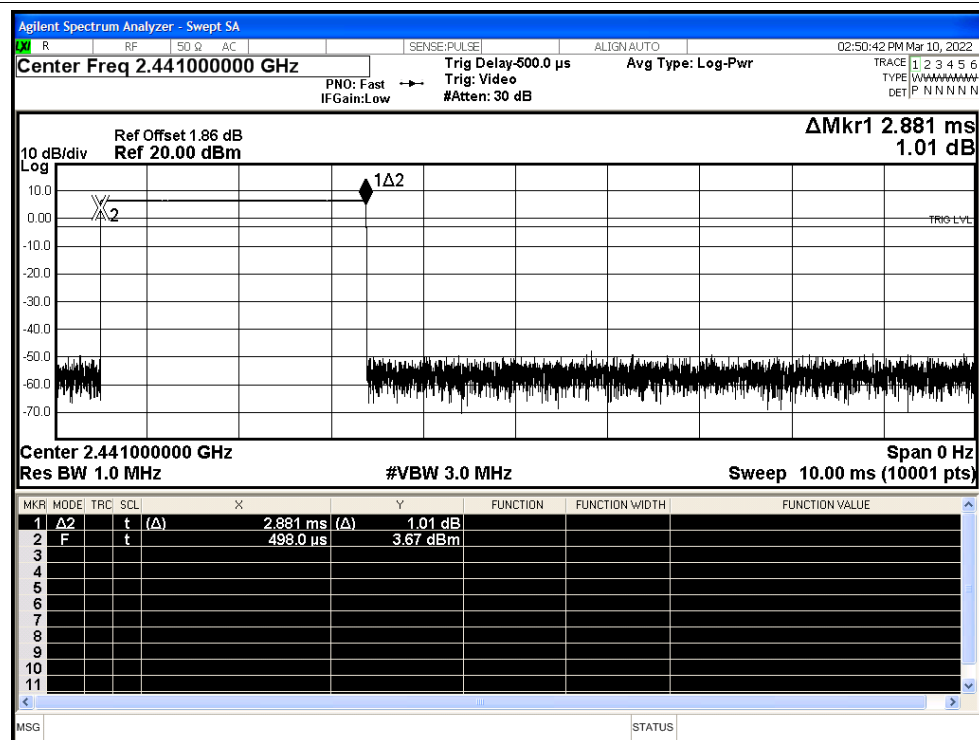


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

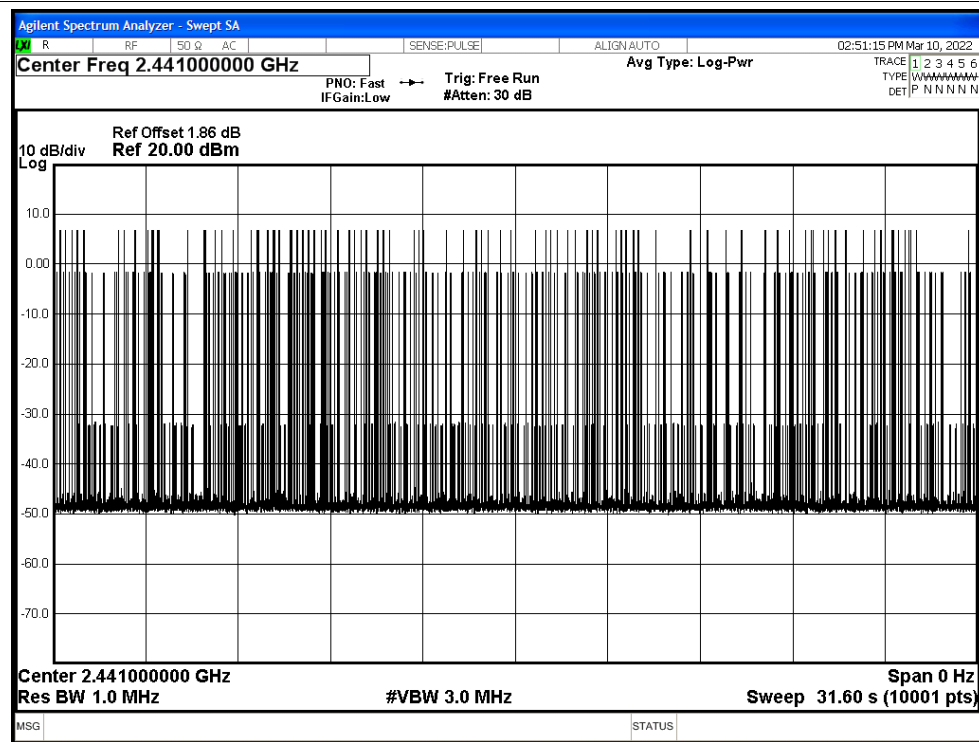




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

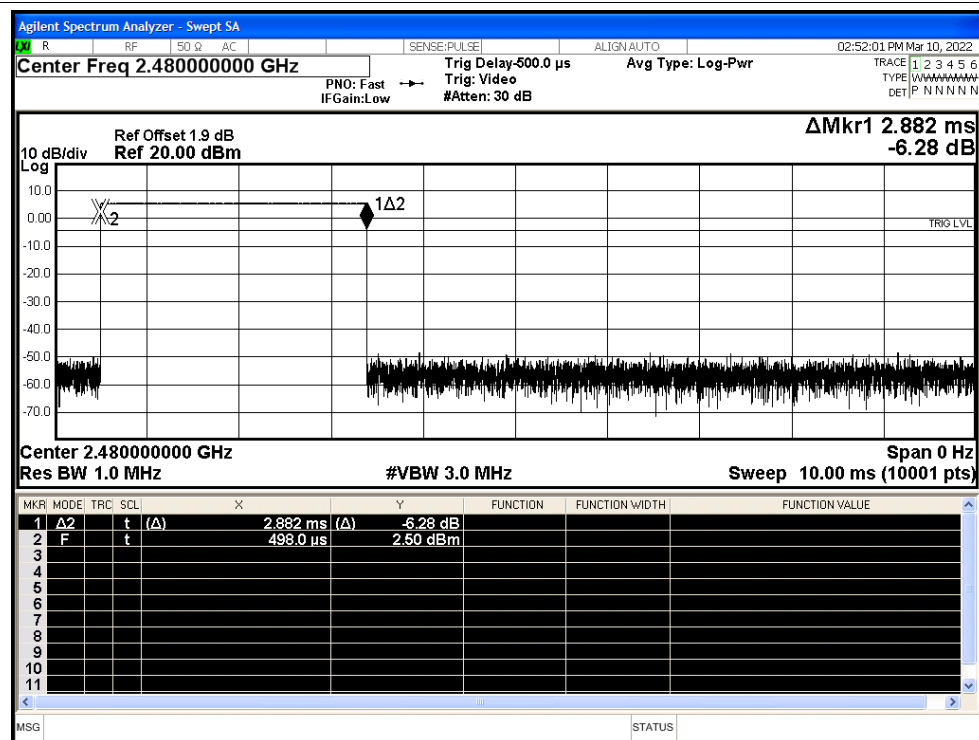


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

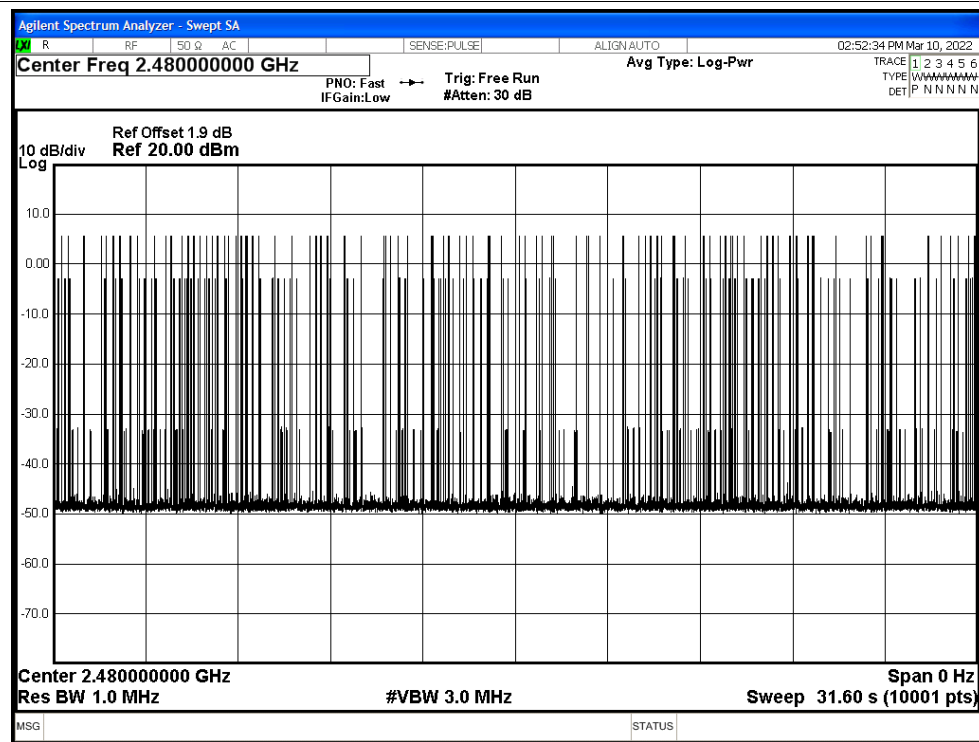




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

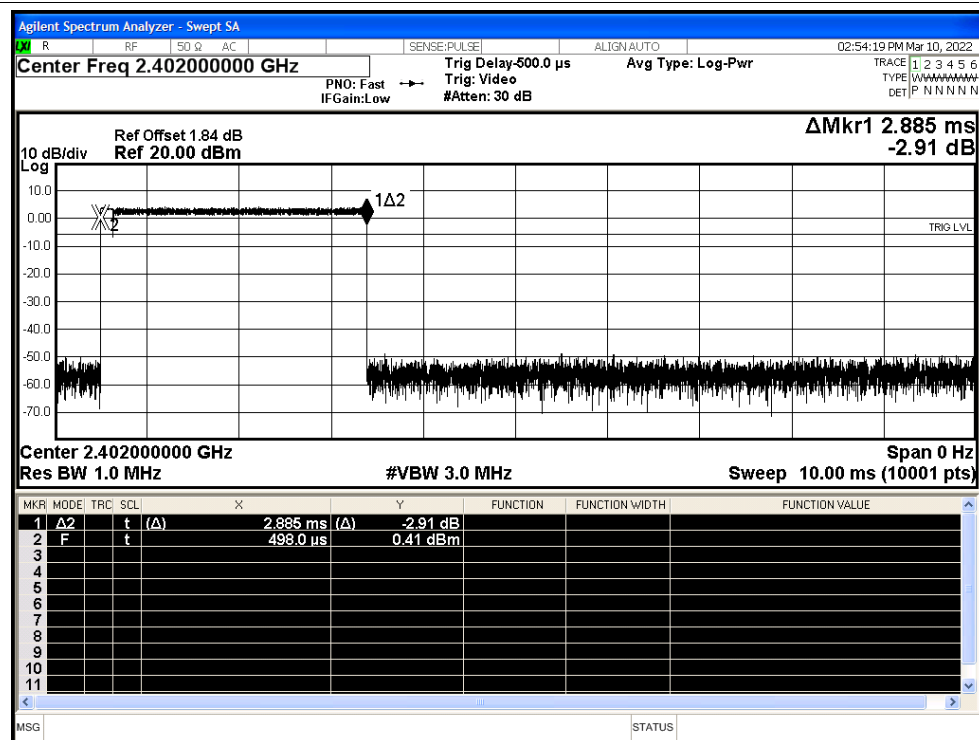


Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated

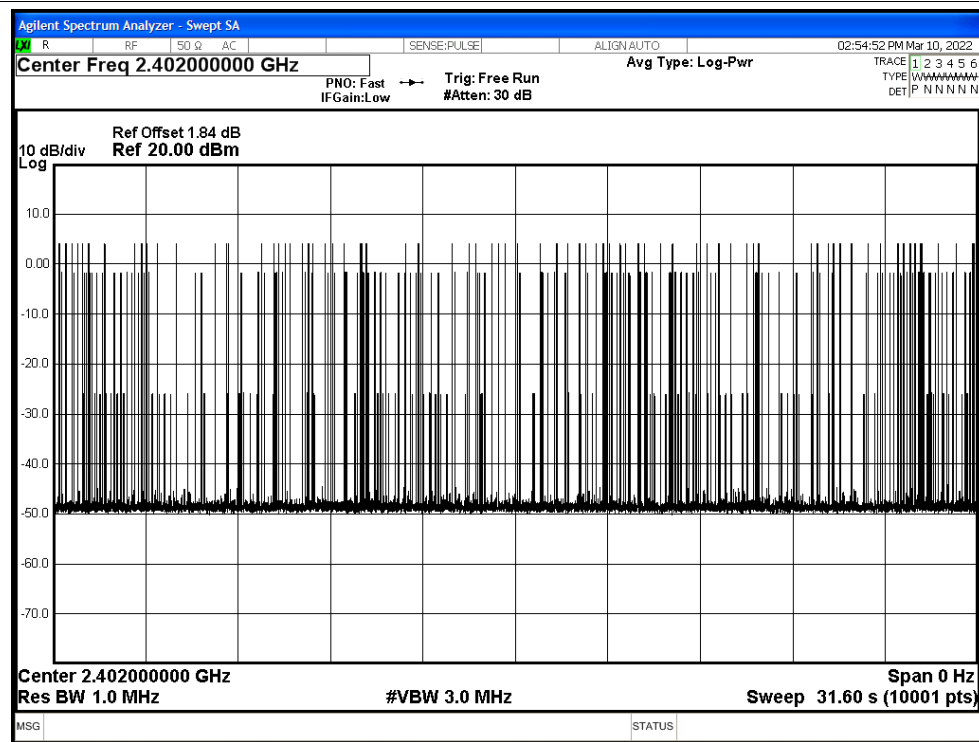




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

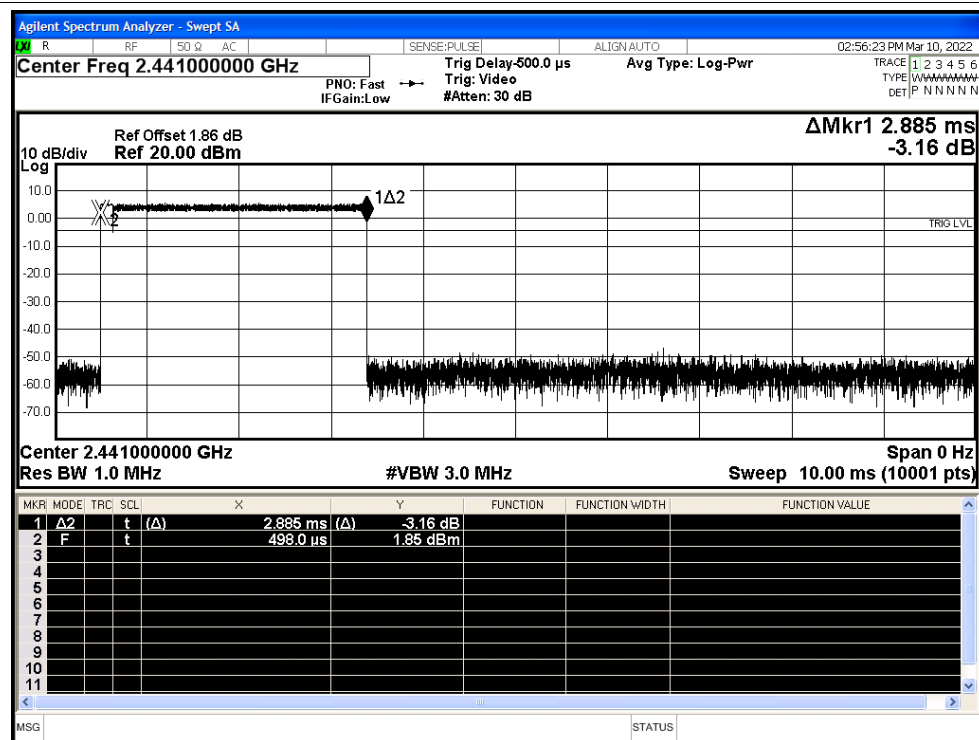


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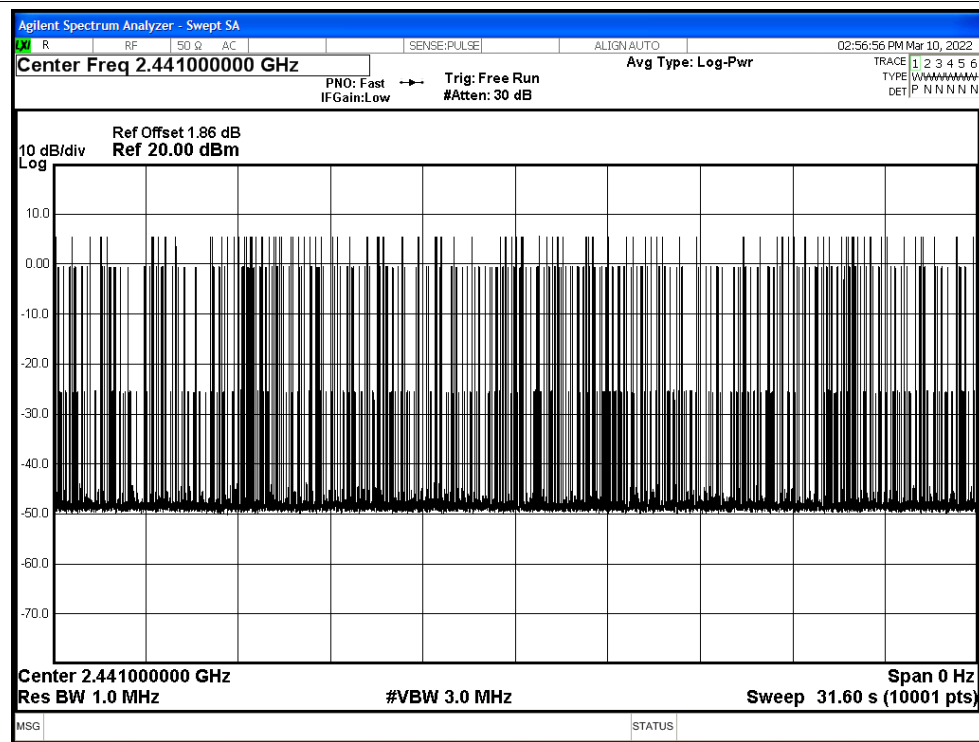




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

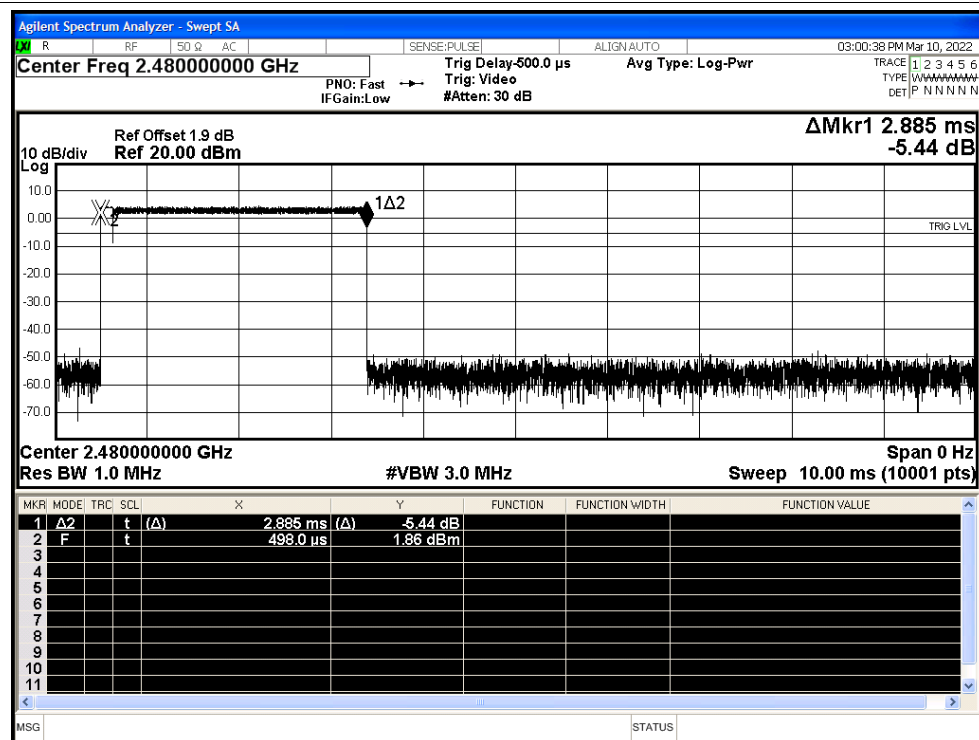


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

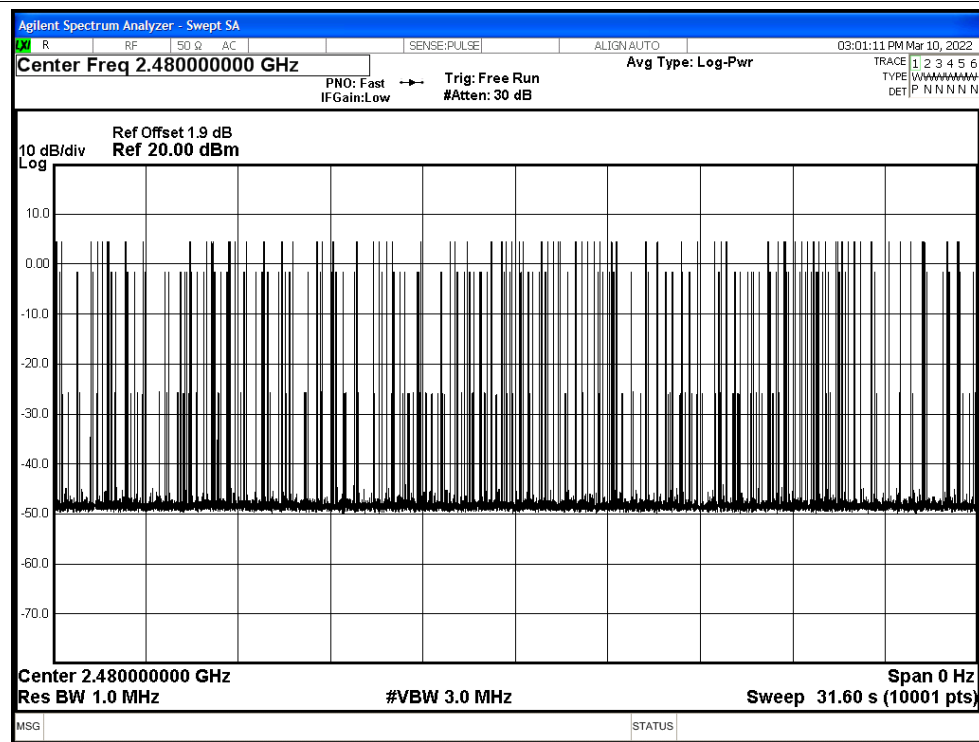




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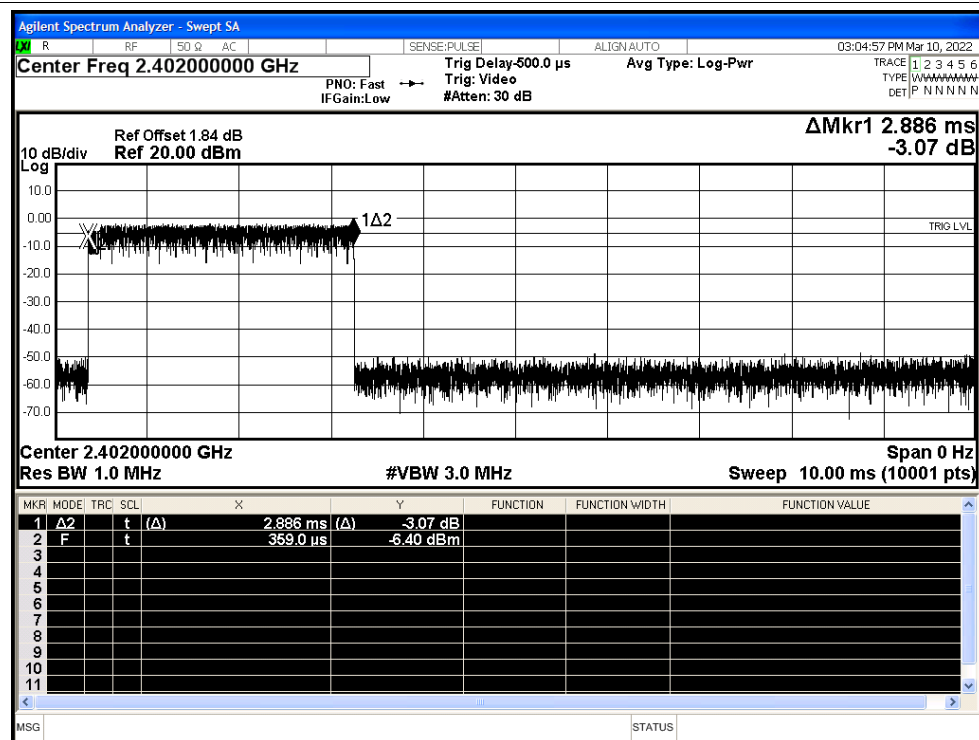


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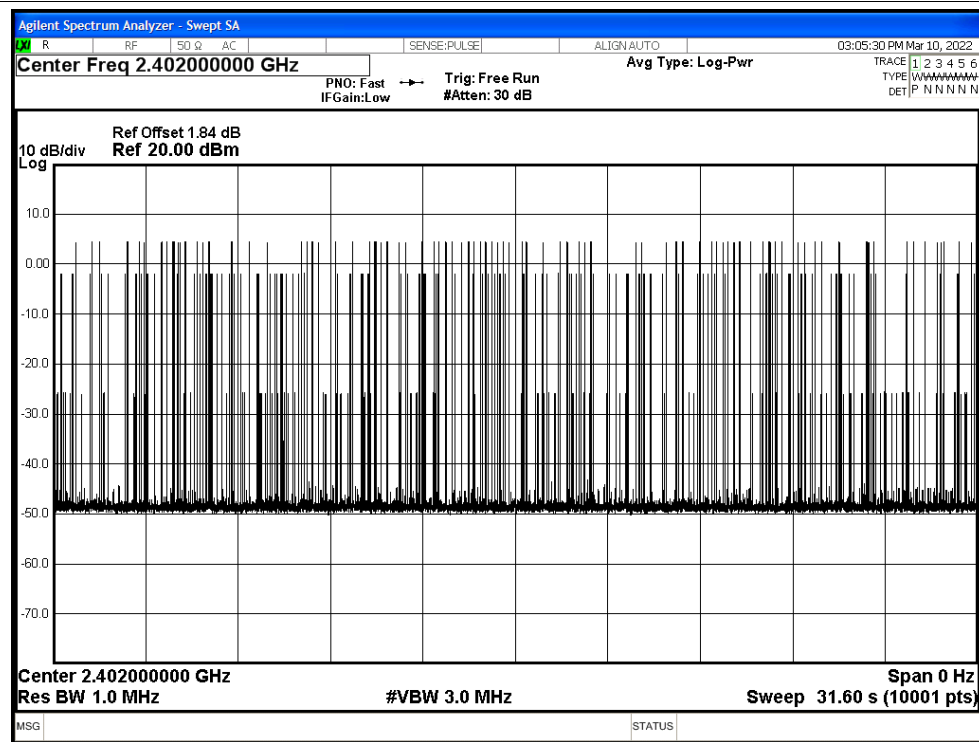




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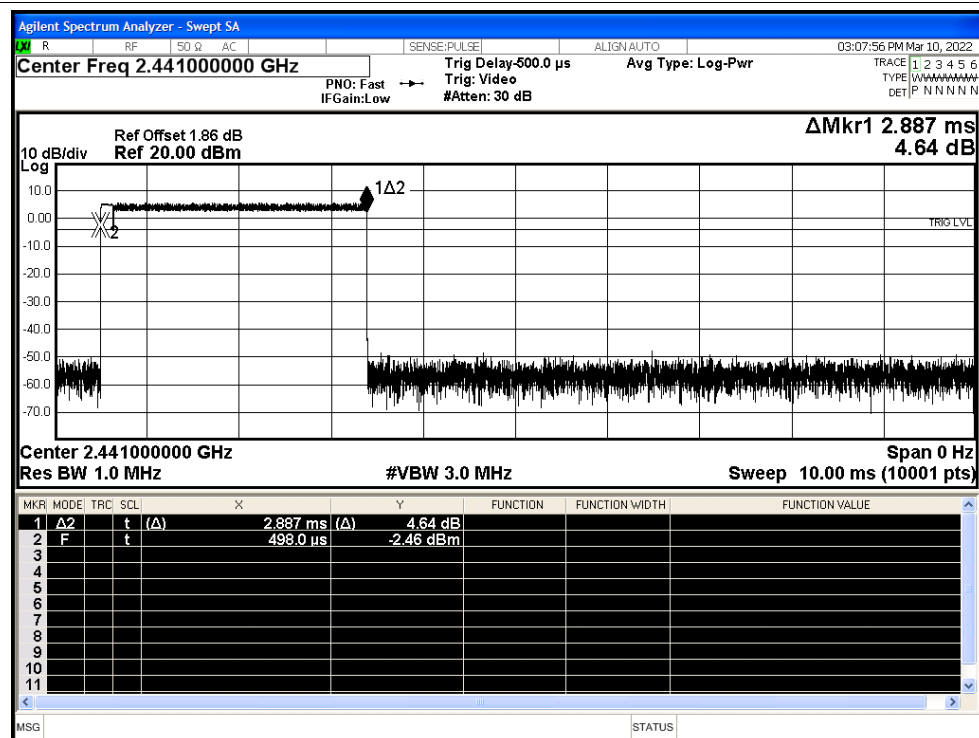


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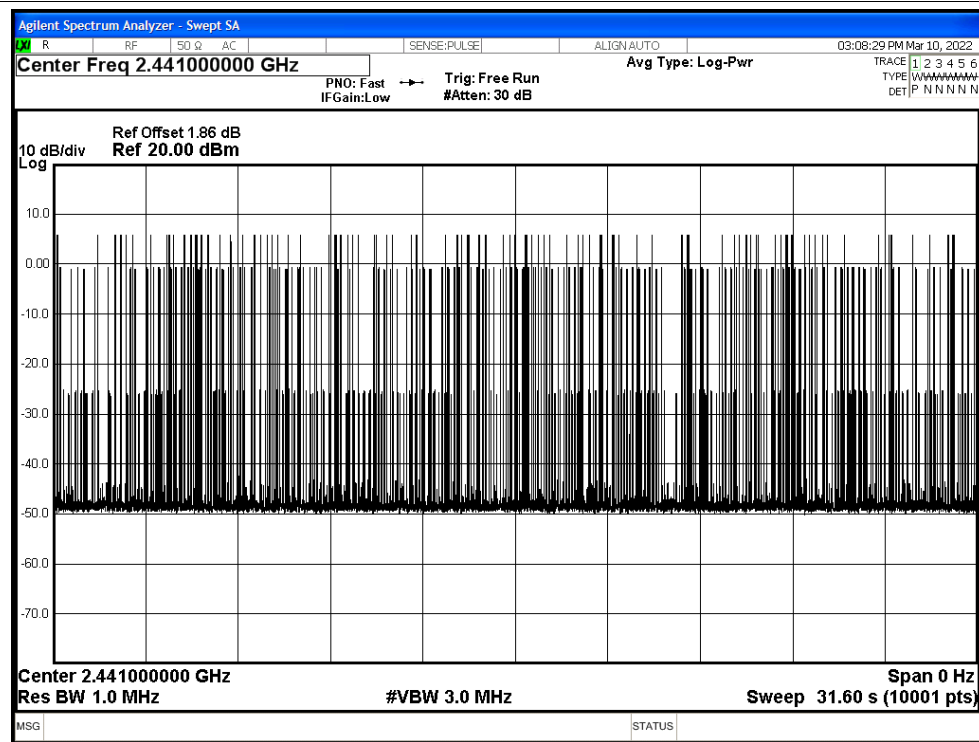




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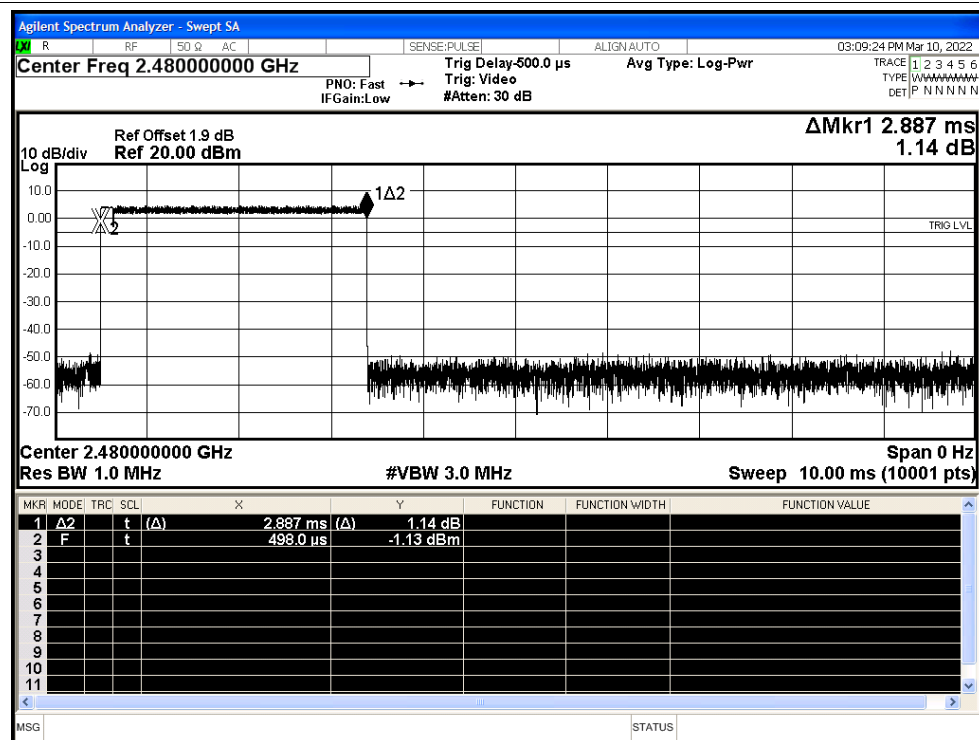


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

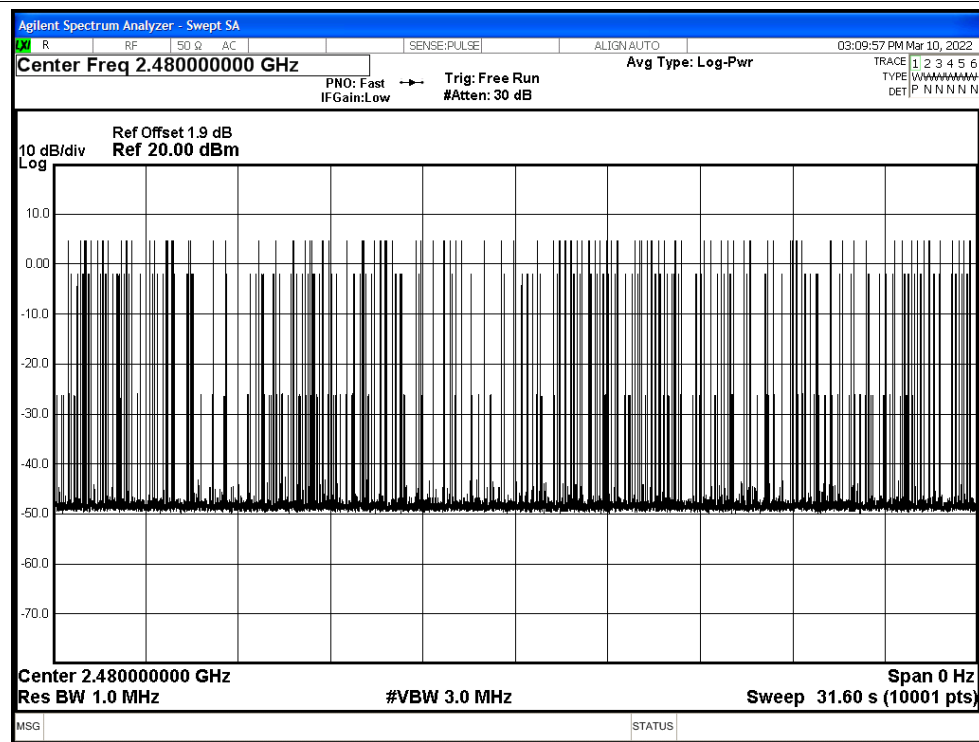




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated





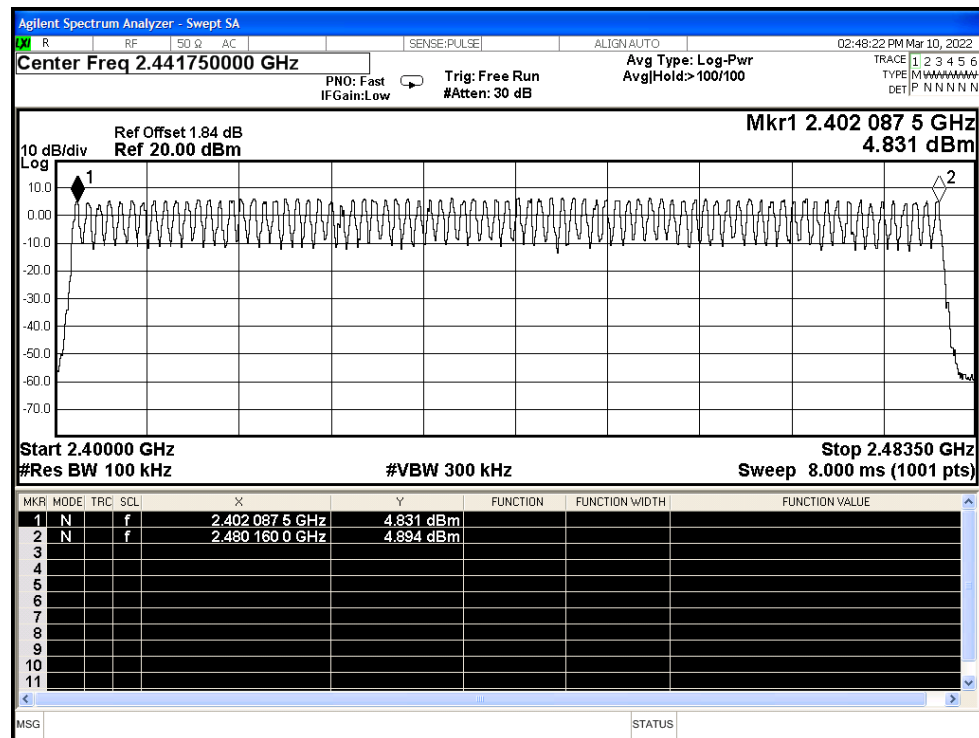
A.5 Number of Hopping Channel

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

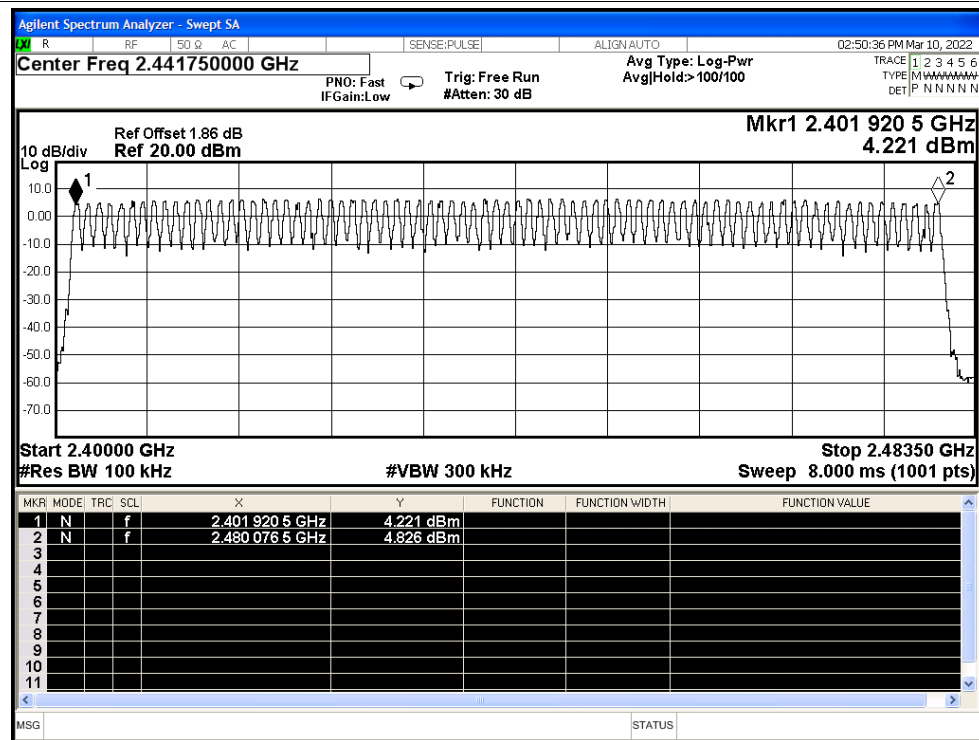


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

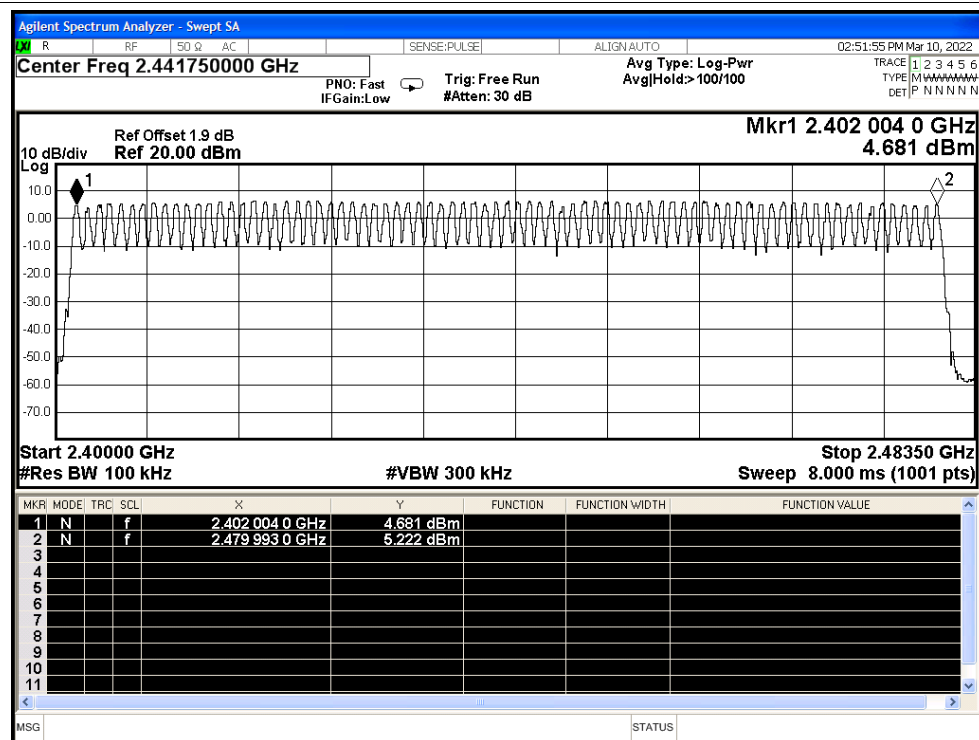


Hopping No. NVNT 1-DH5 2441MHz Ant1

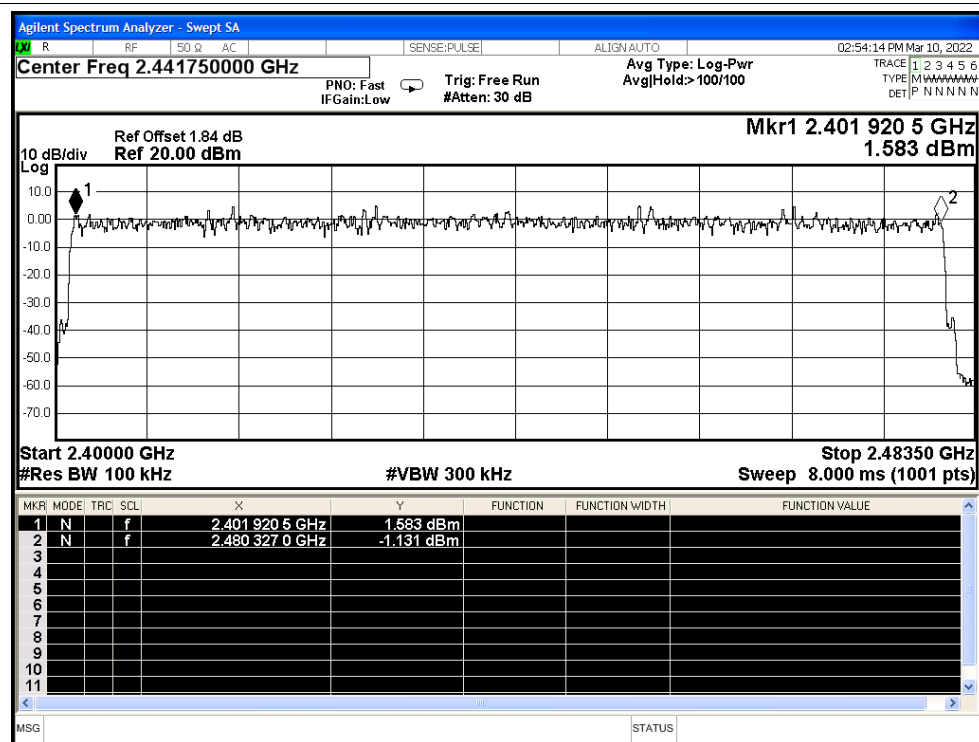




Hopping No. NVNT 1-DH5 2480MHz Ant1

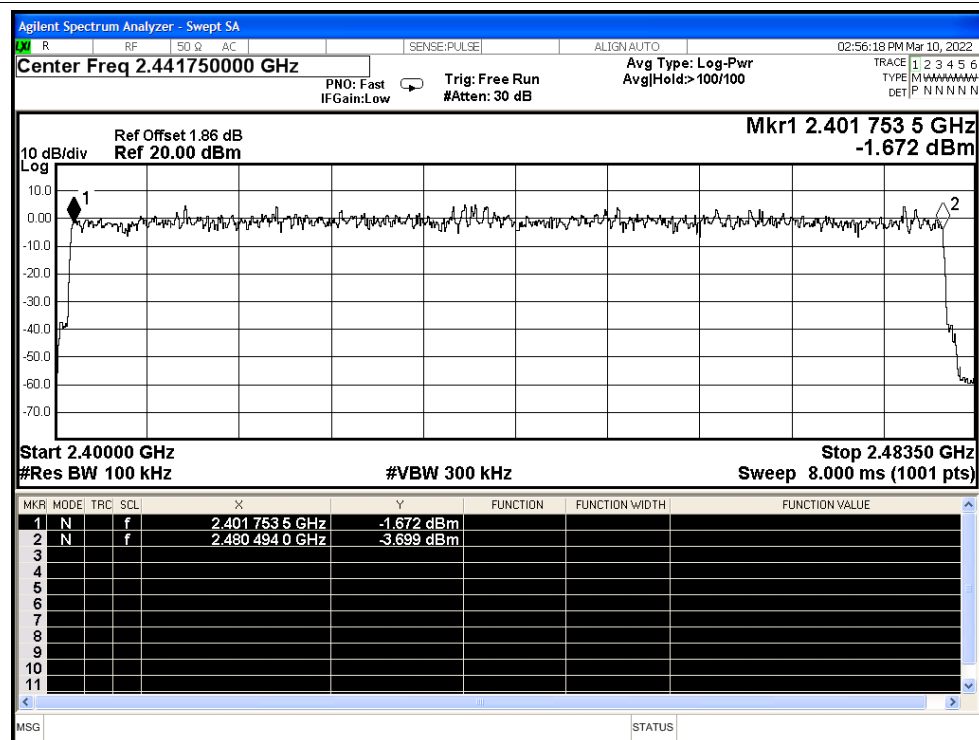


Hopping No. NVNT 2-DH5 2402MHz Ant1

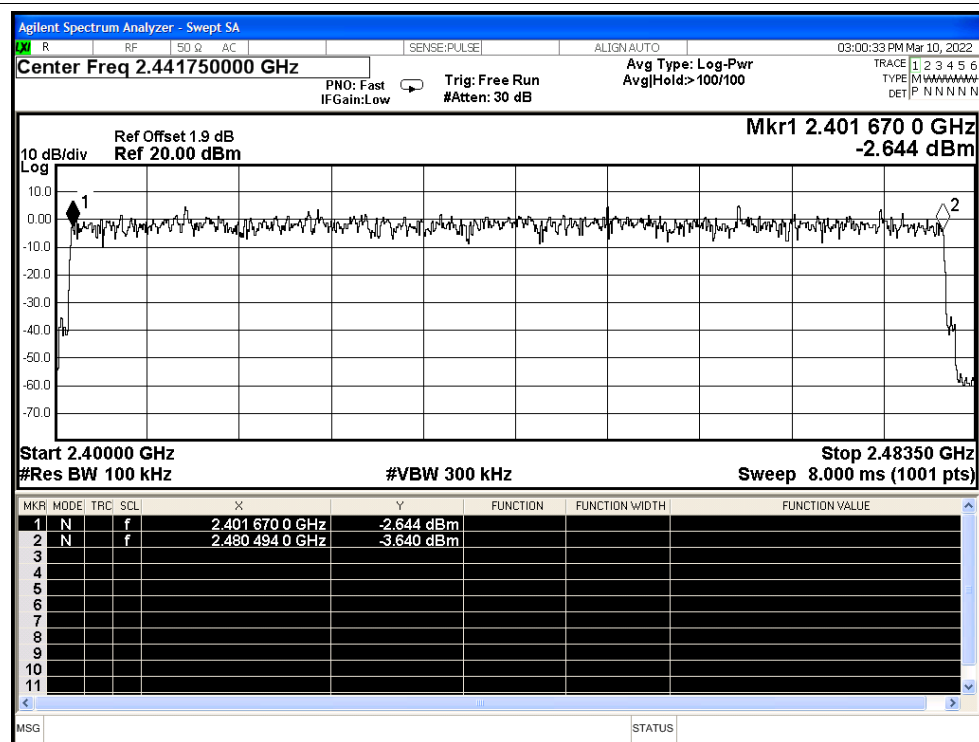




Hopping No. NVNT 2-DH5 2441MHz Ant1

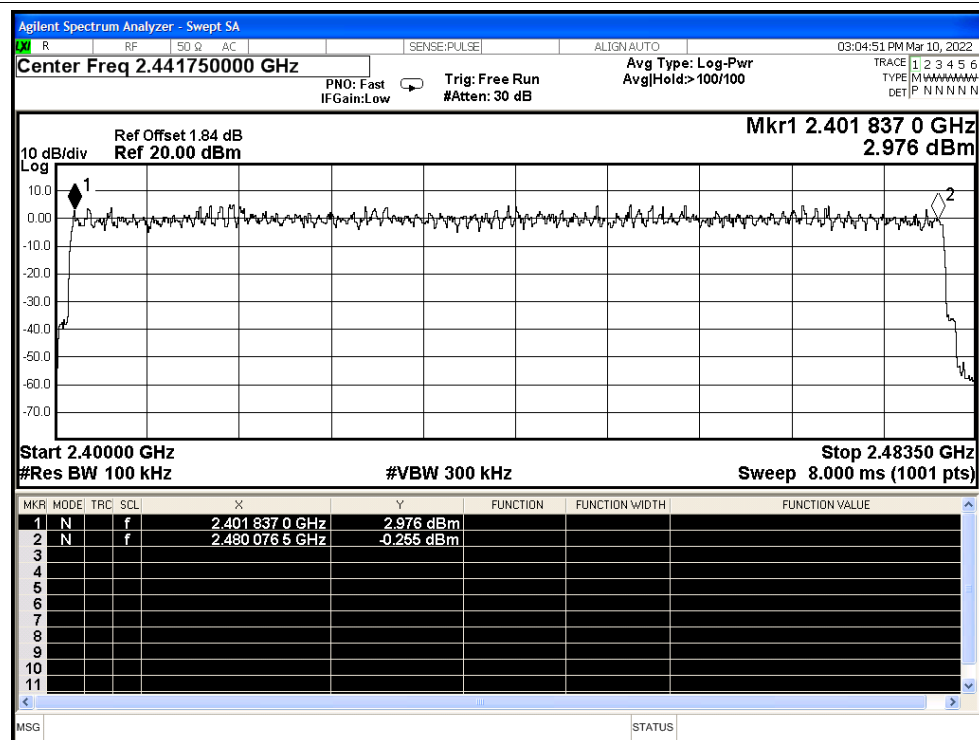


Hopping No. NVNT 2-DH5 2480MHz Ant1

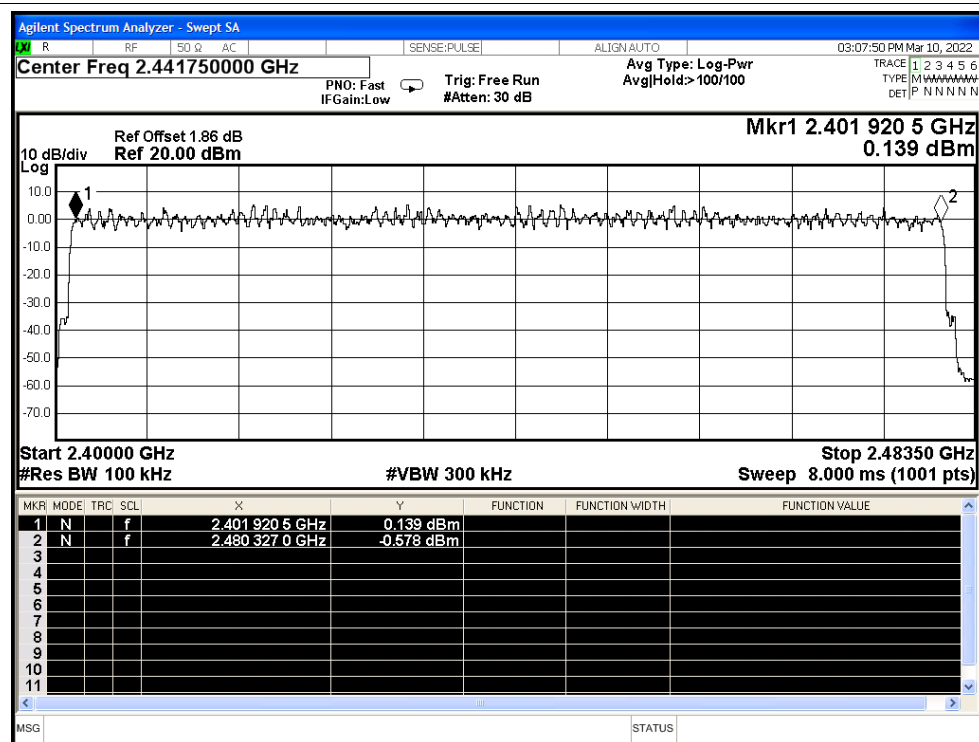


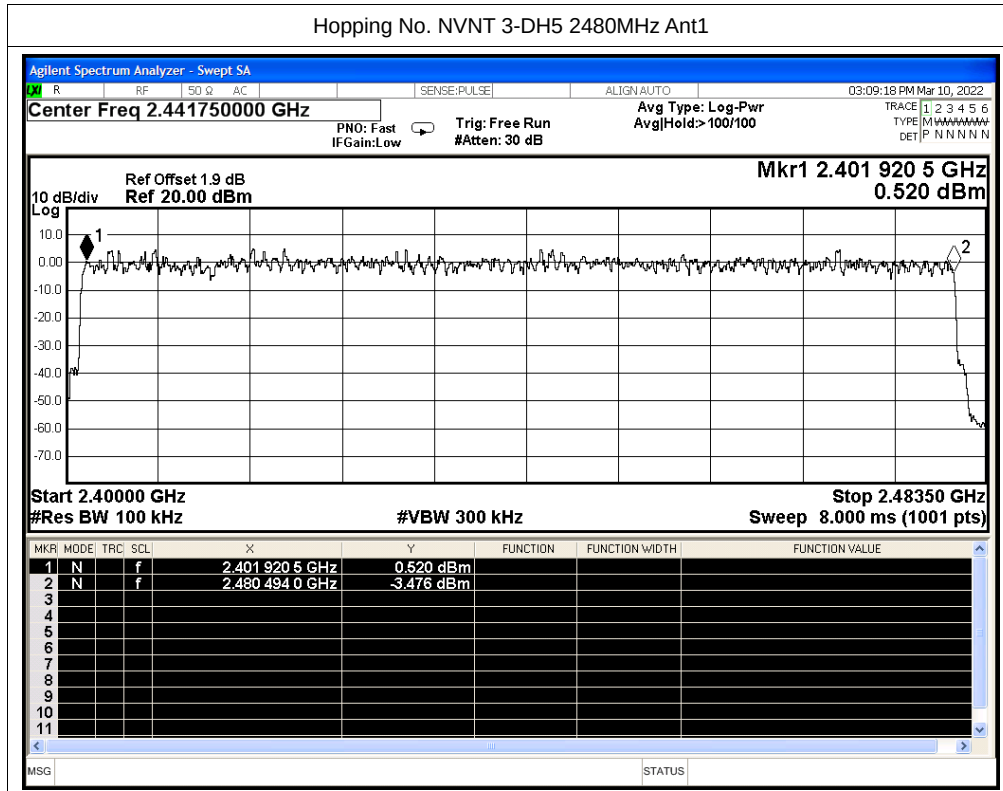


Hopping No. NVNT 3-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2441MHz Ant1







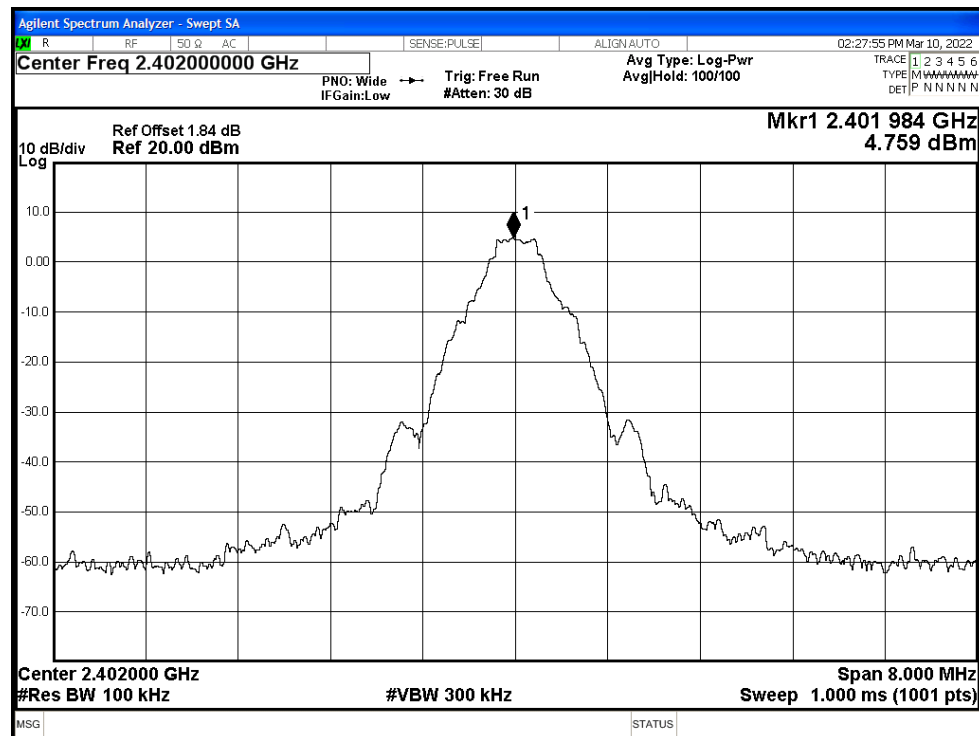
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.55	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.94	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-57.83	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-61.51	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-58.16	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-60.25	-20	Pass

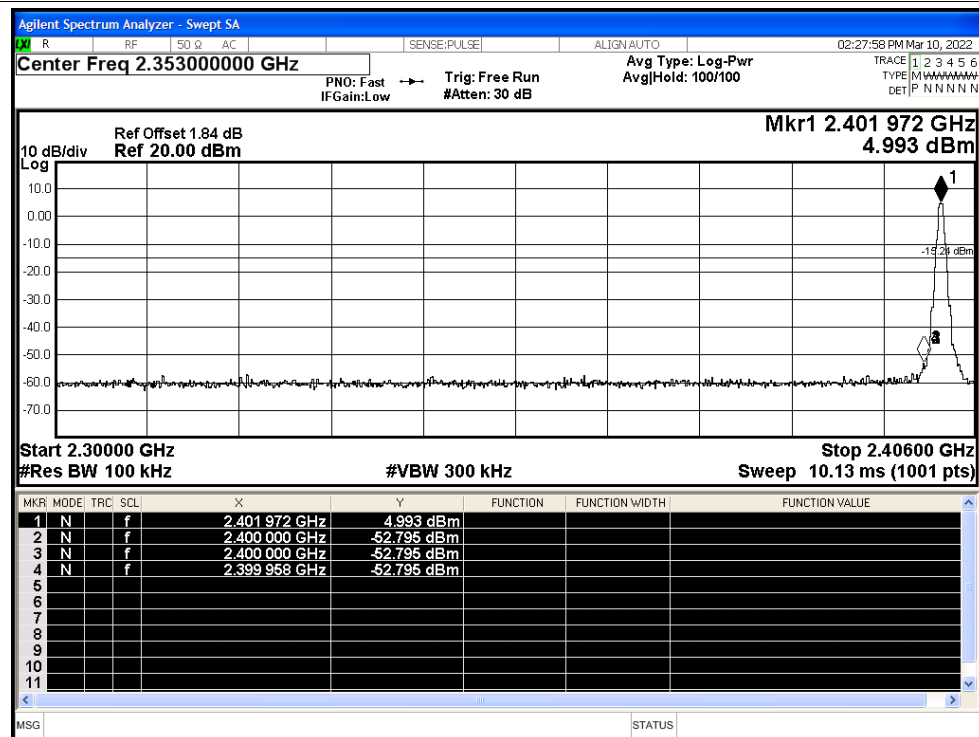


Test Graphs

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

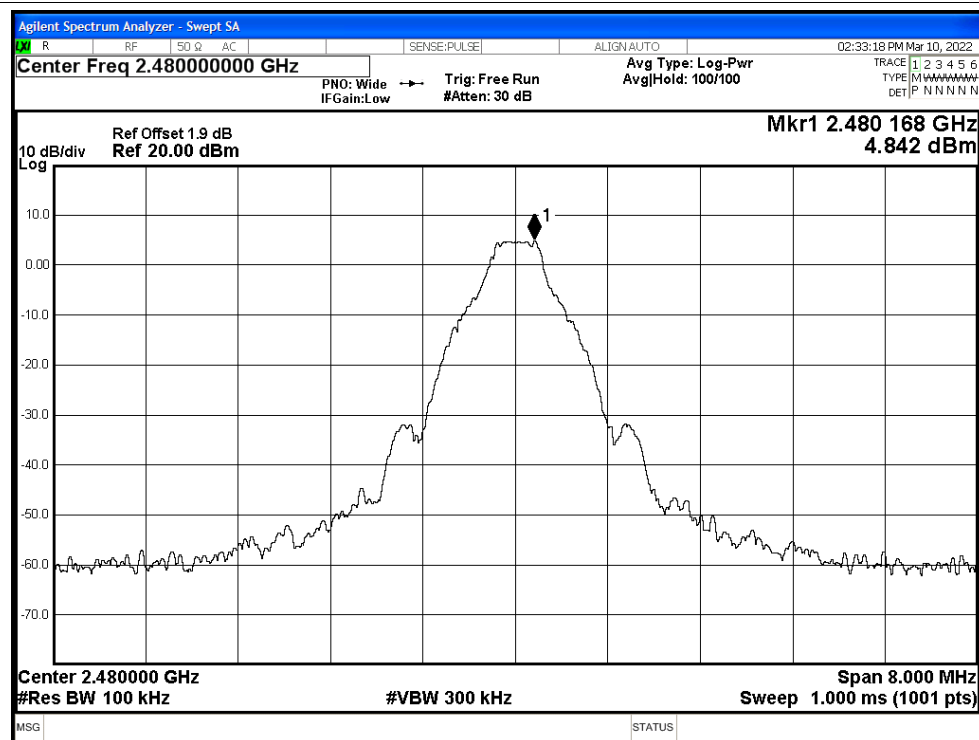


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

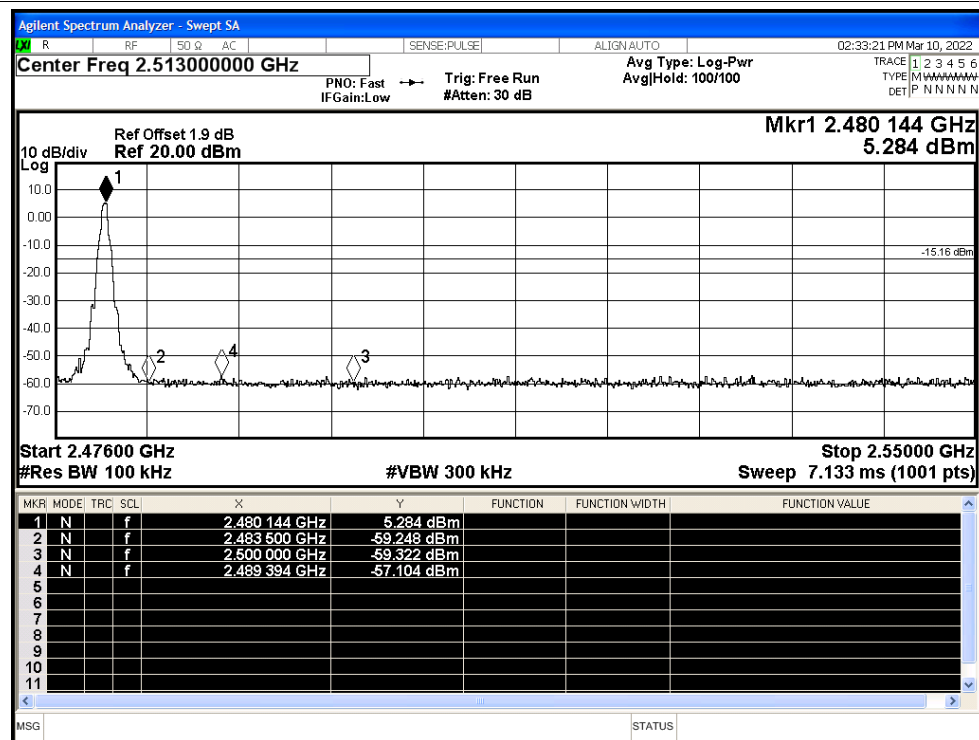




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

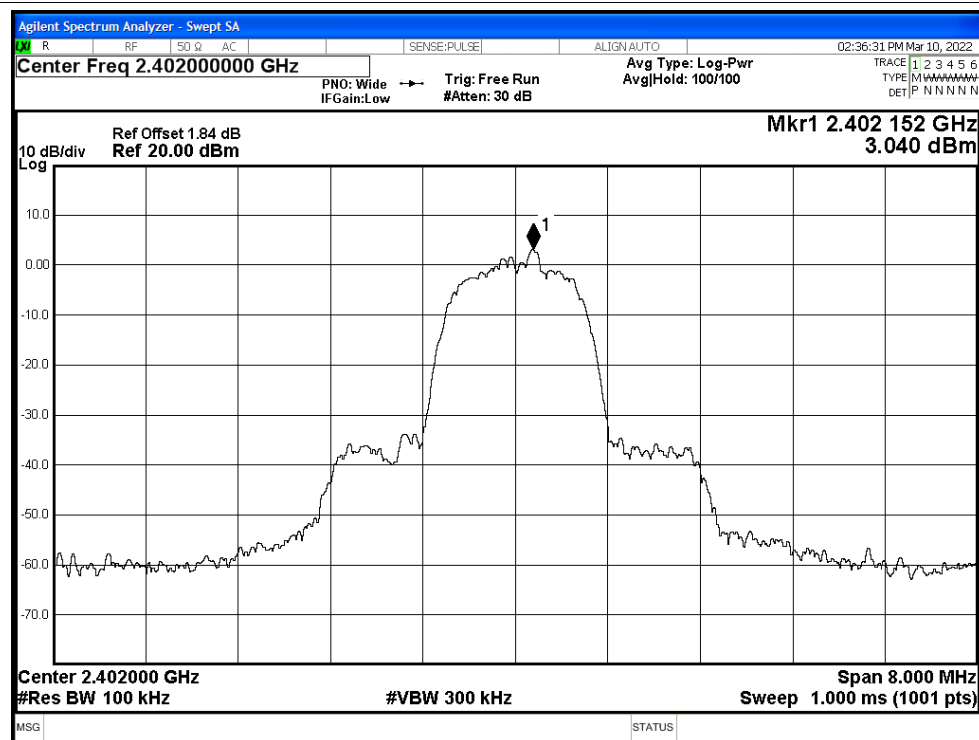


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

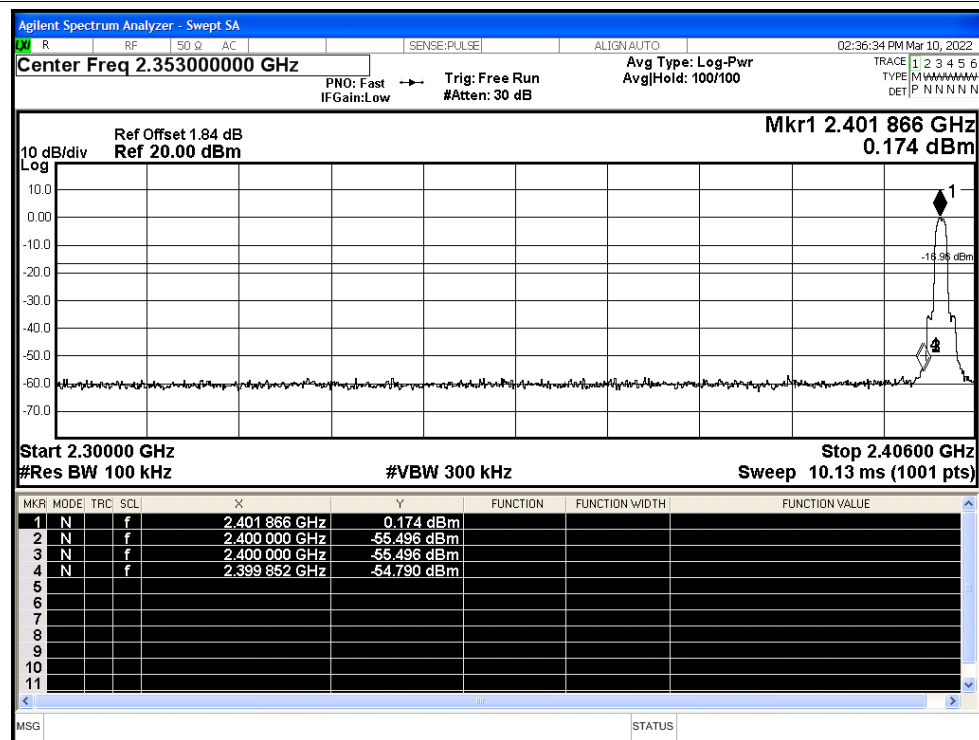




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

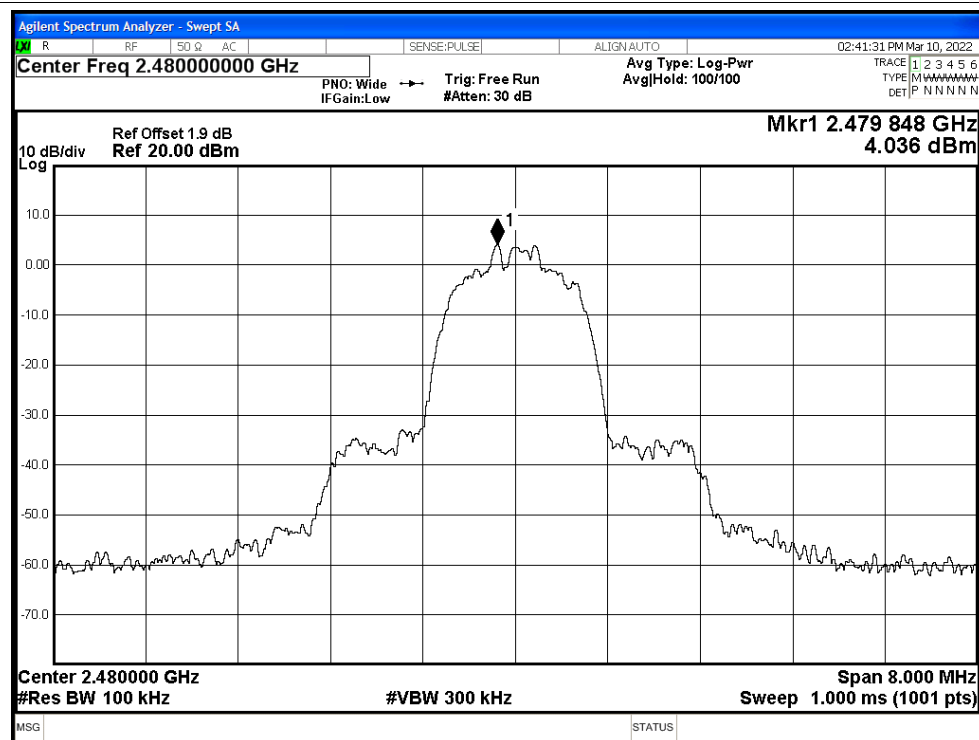


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

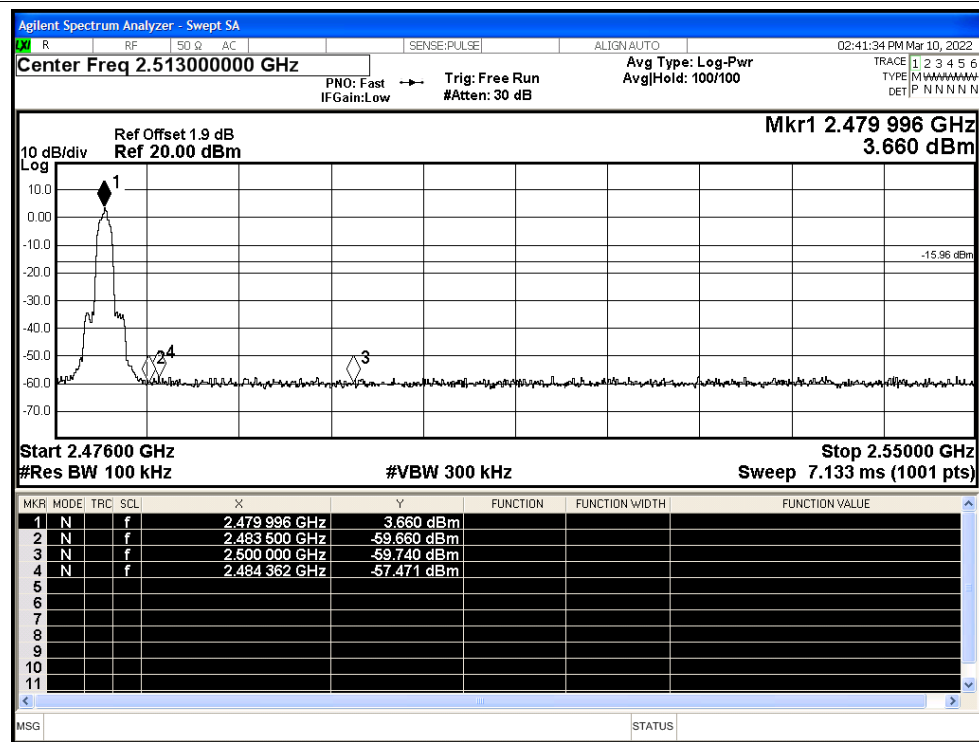




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

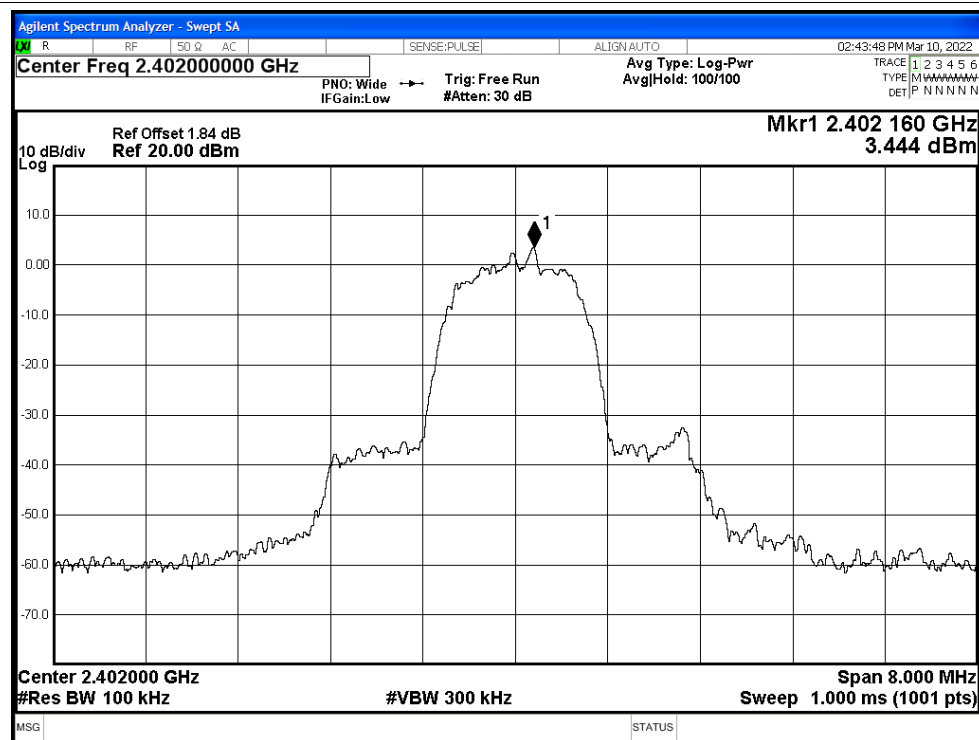


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

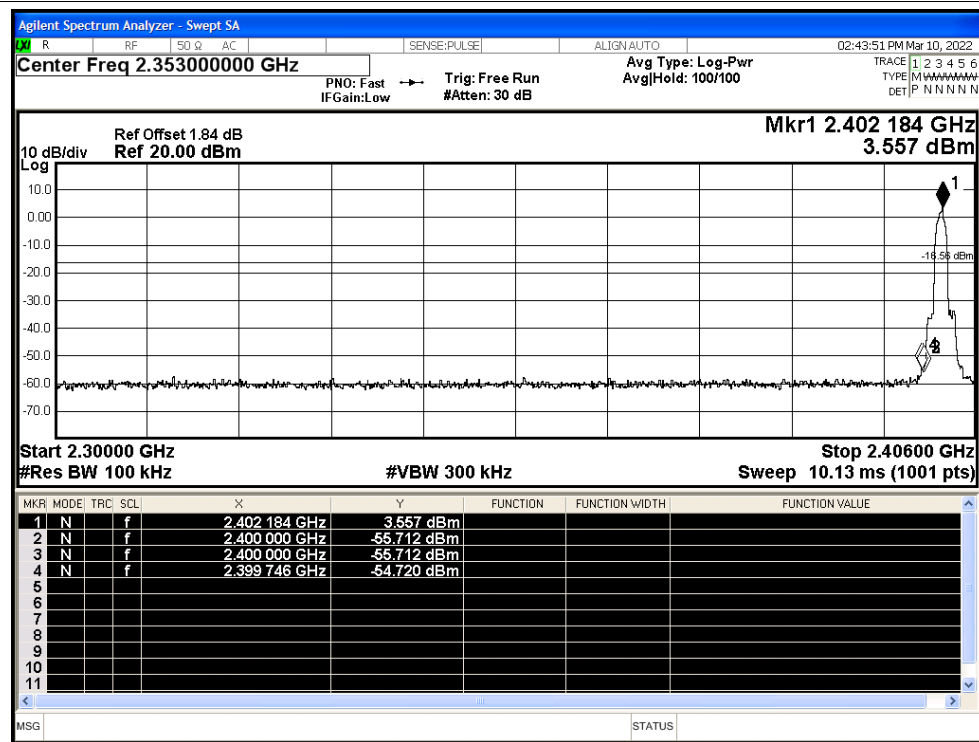




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

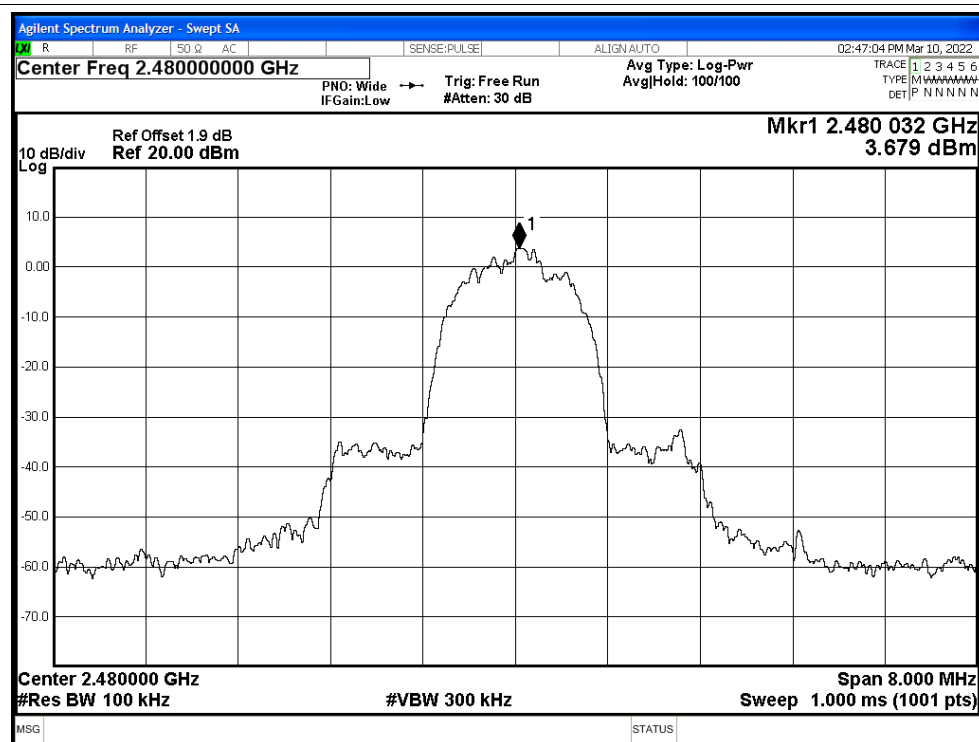


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

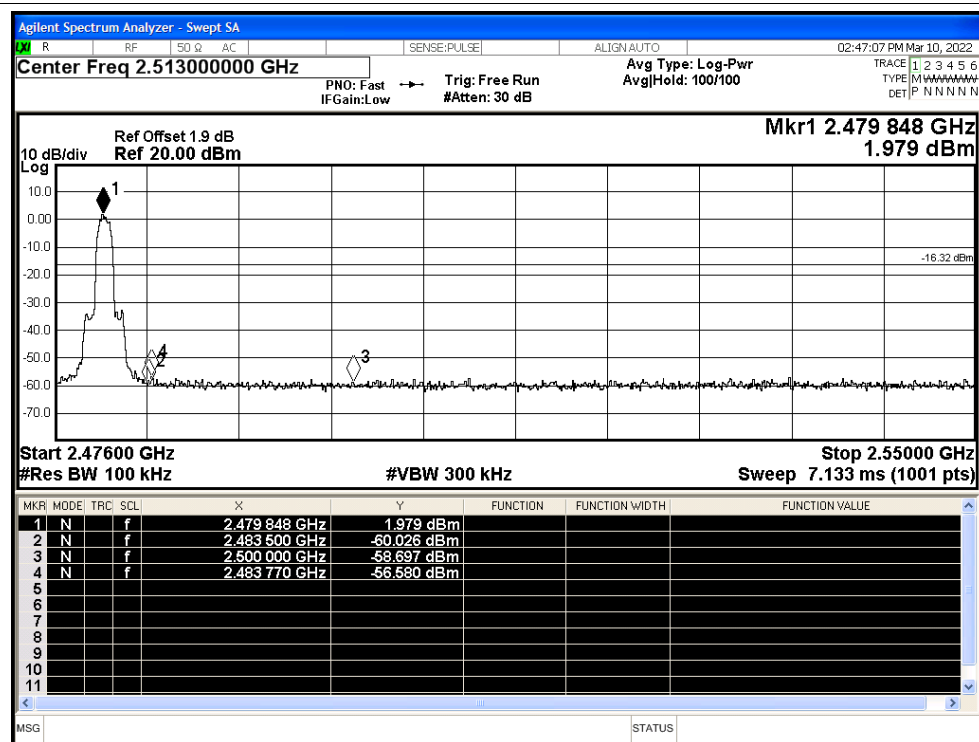




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





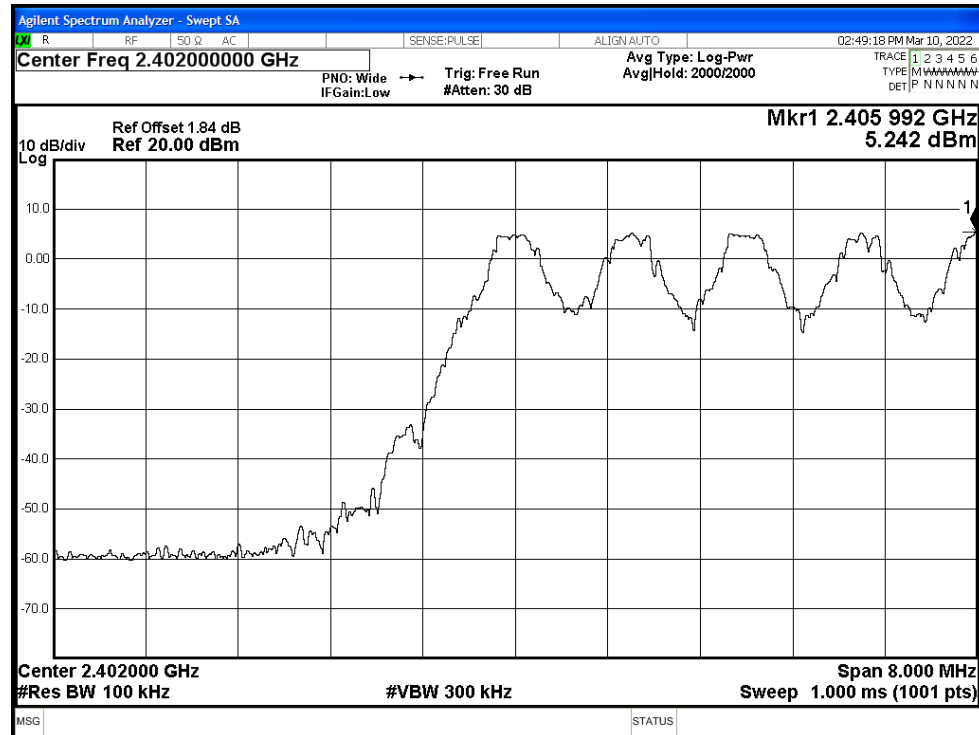
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-60.78	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-61.31	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.94	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-60.13	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-60.11	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-60.47	-20	Pass

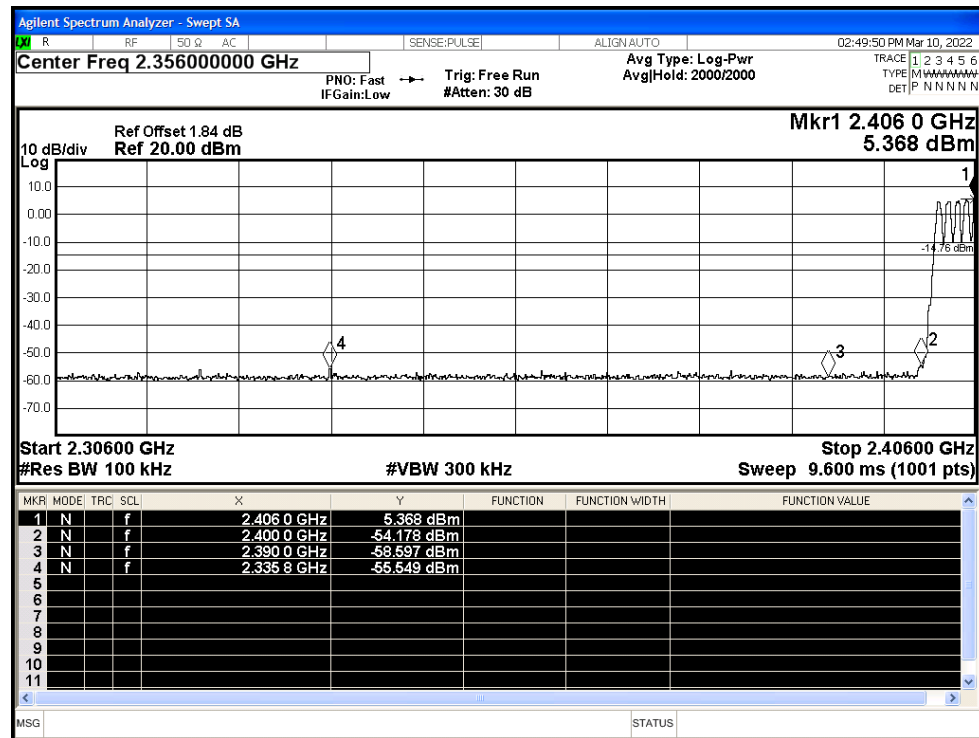


Test Graphs

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

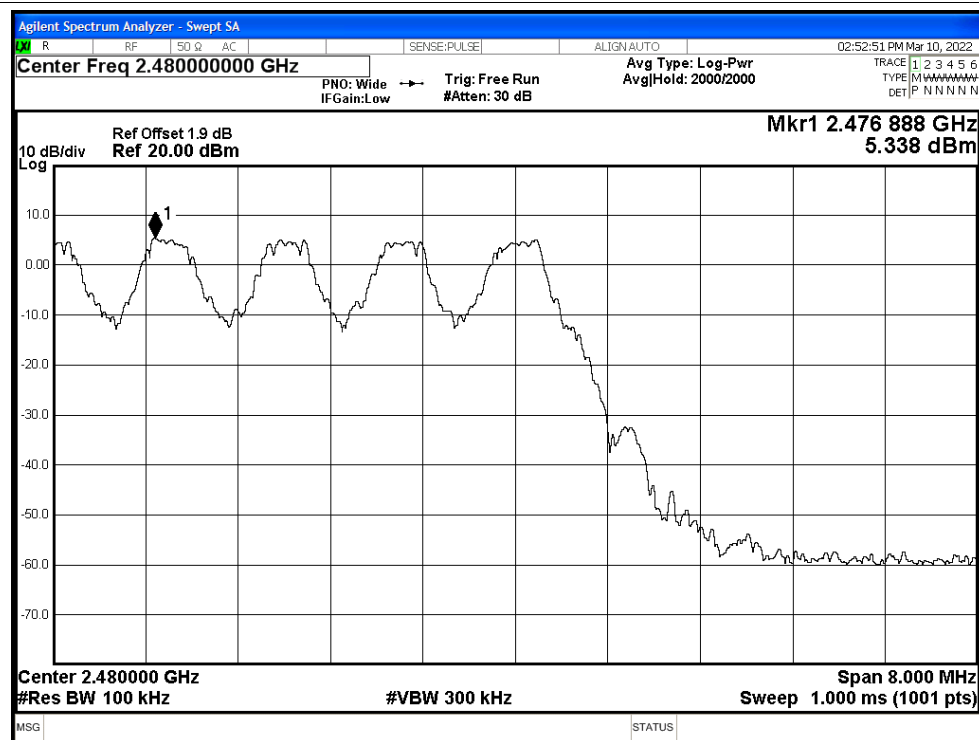


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

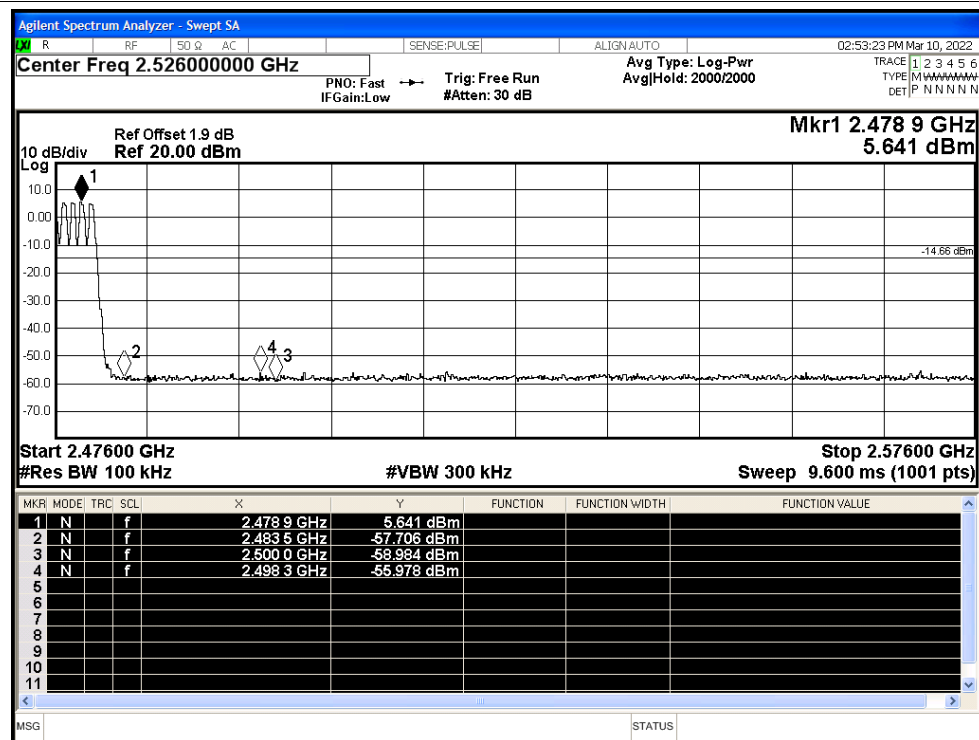




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

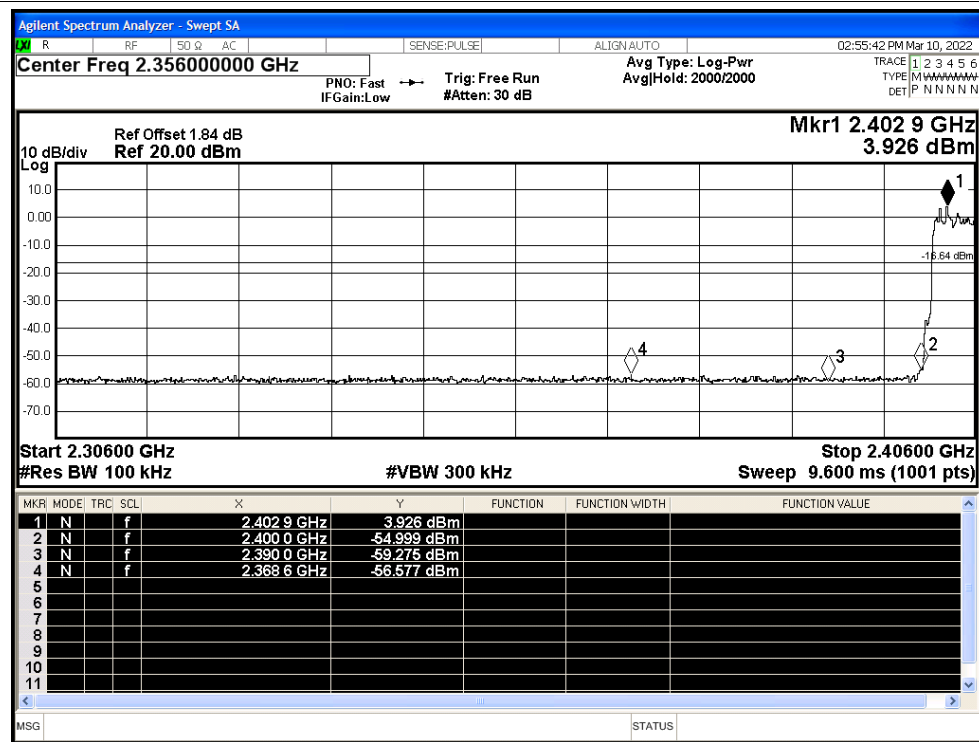




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

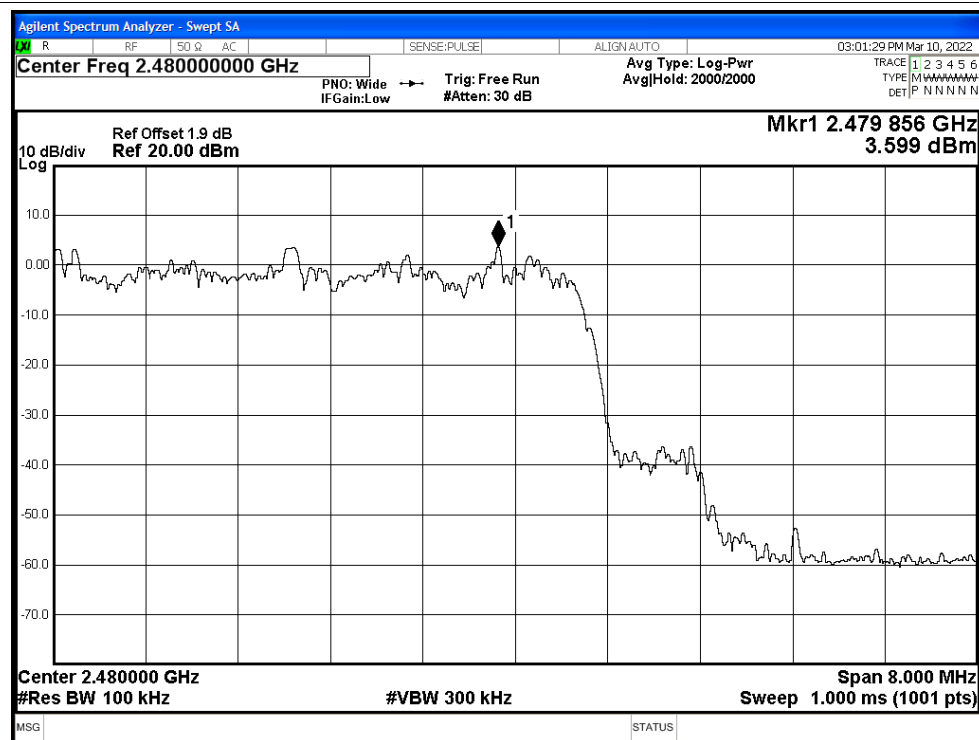


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

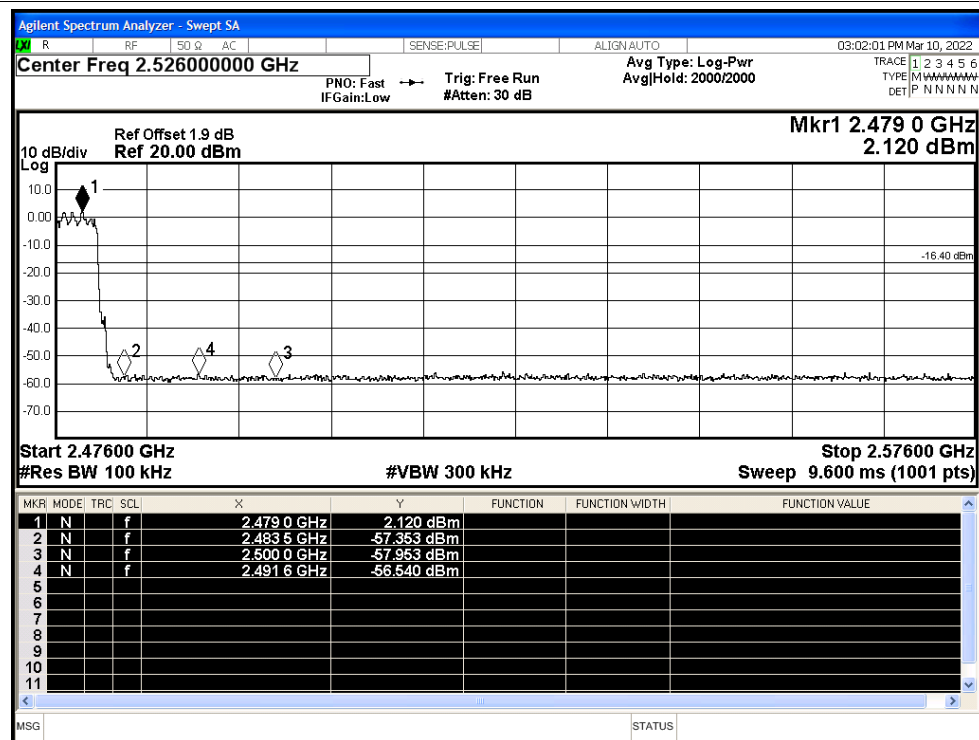




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

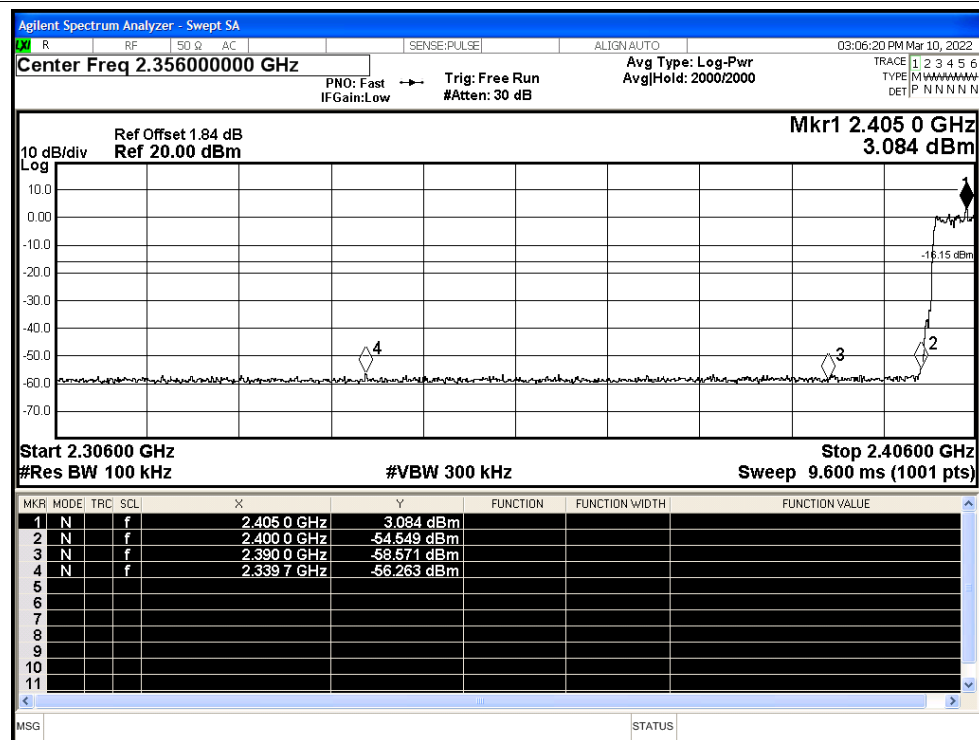




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

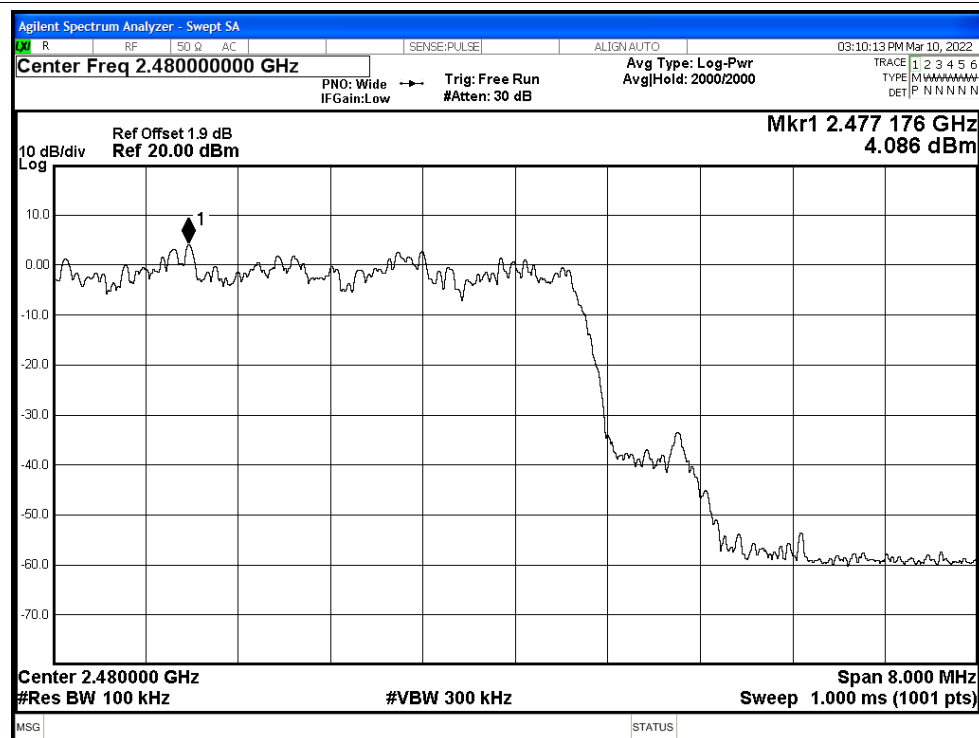


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

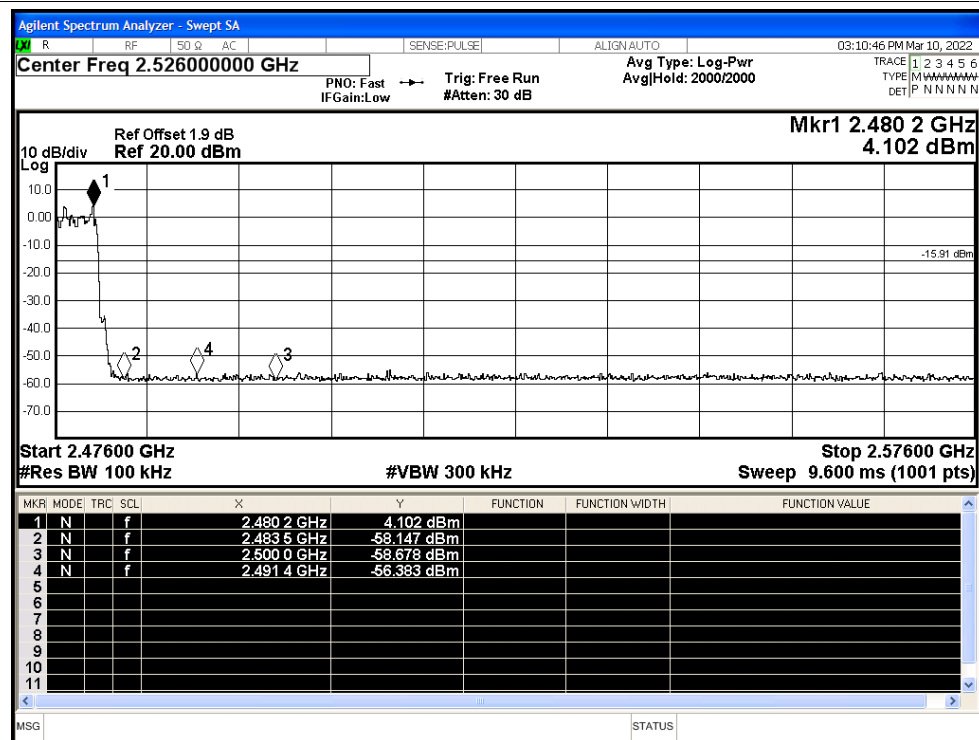




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





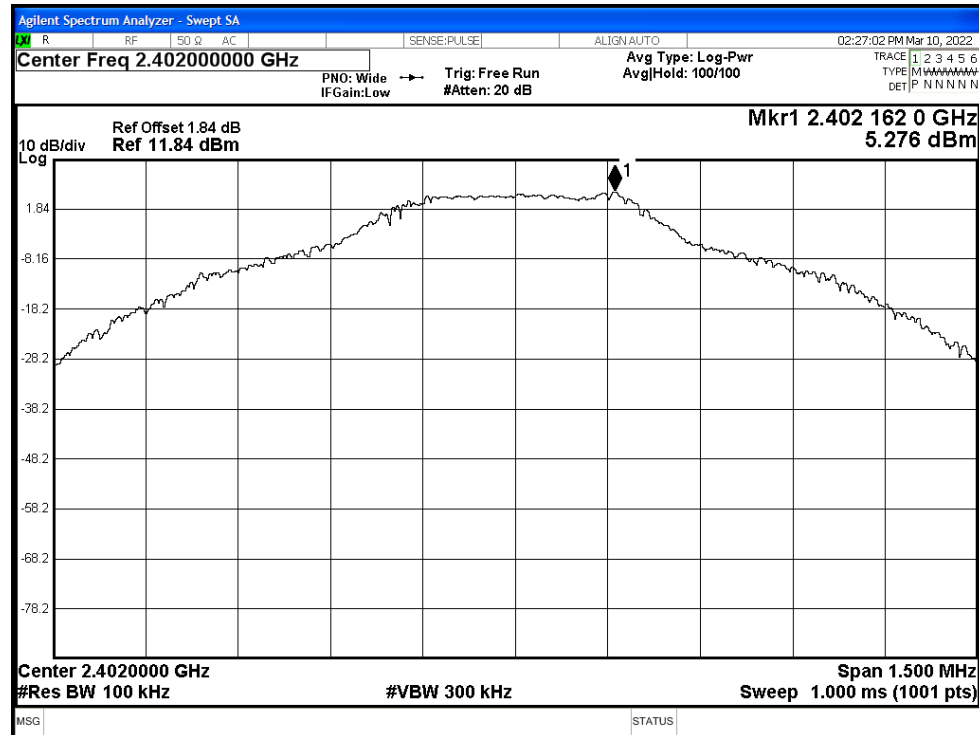
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-61.1	-20	Pass
NVNT	1-DH5	2441	Ant1	-62.29	-20	Pass
NVNT	1-DH5	2480	Ant1	-61.49	-20	Pass
NVNT	2-DH5	2402	Ant1	-58.44	-20	Pass
NVNT	2-DH5	2441	Ant1	-59.51	-20	Pass
NVNT	2-DH5	2480	Ant1	-59.69	-20	Pass
NVNT	3-DH5	2402	Ant1	-59.6	-20	Pass
NVNT	3-DH5	2441	Ant1	-60.01	-20	Pass
NVNT	3-DH5	2480	Ant1	-58.72	-20	Pass

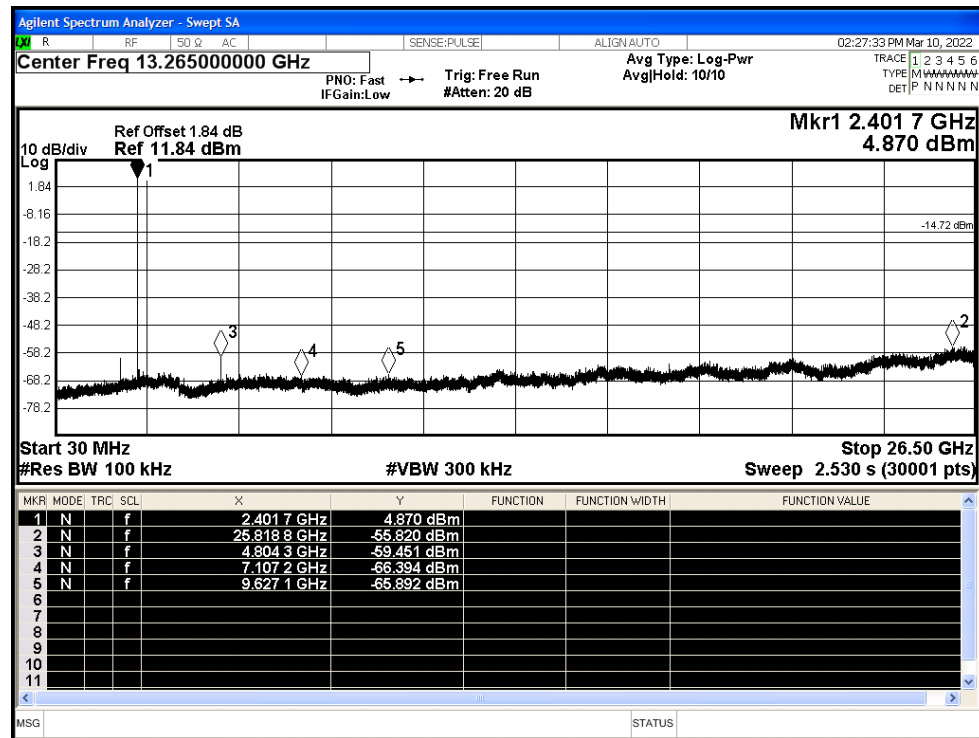


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

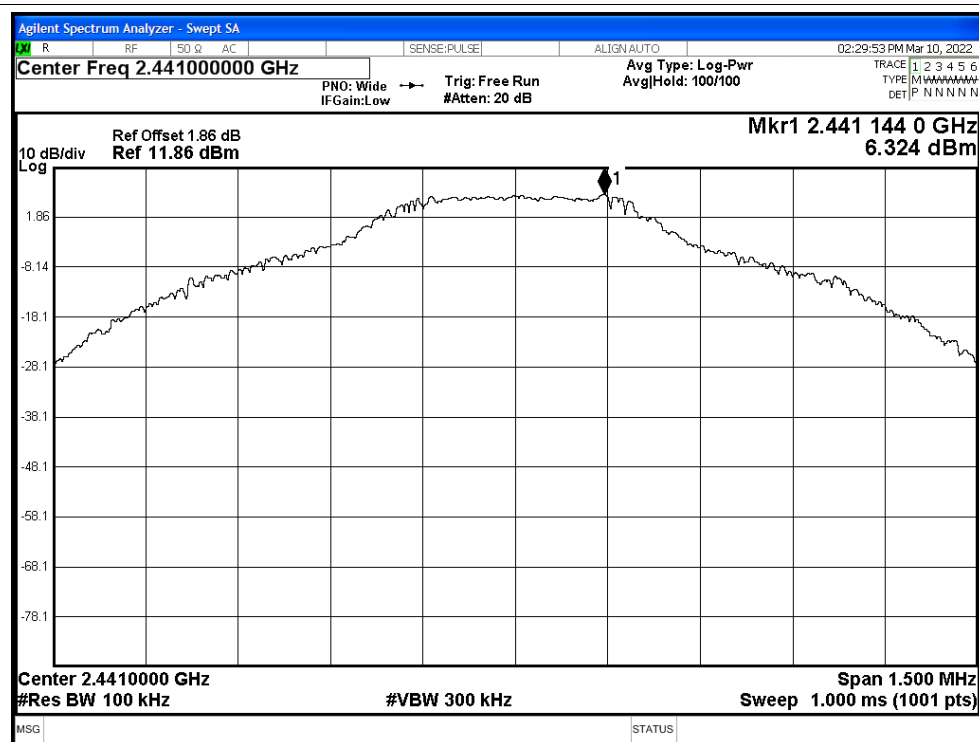


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

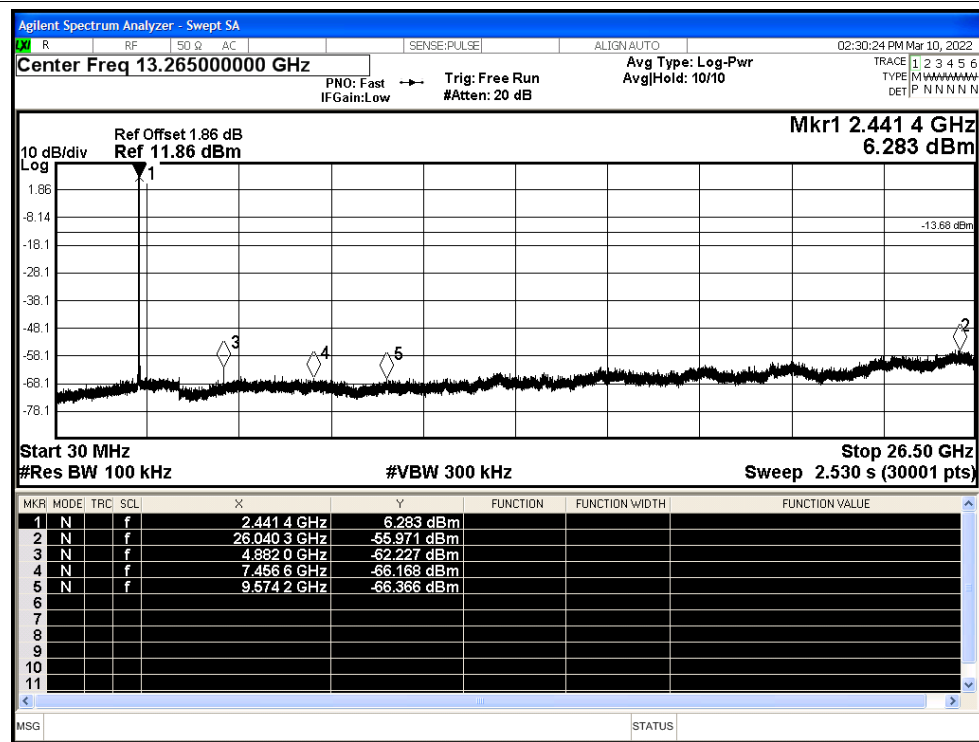




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

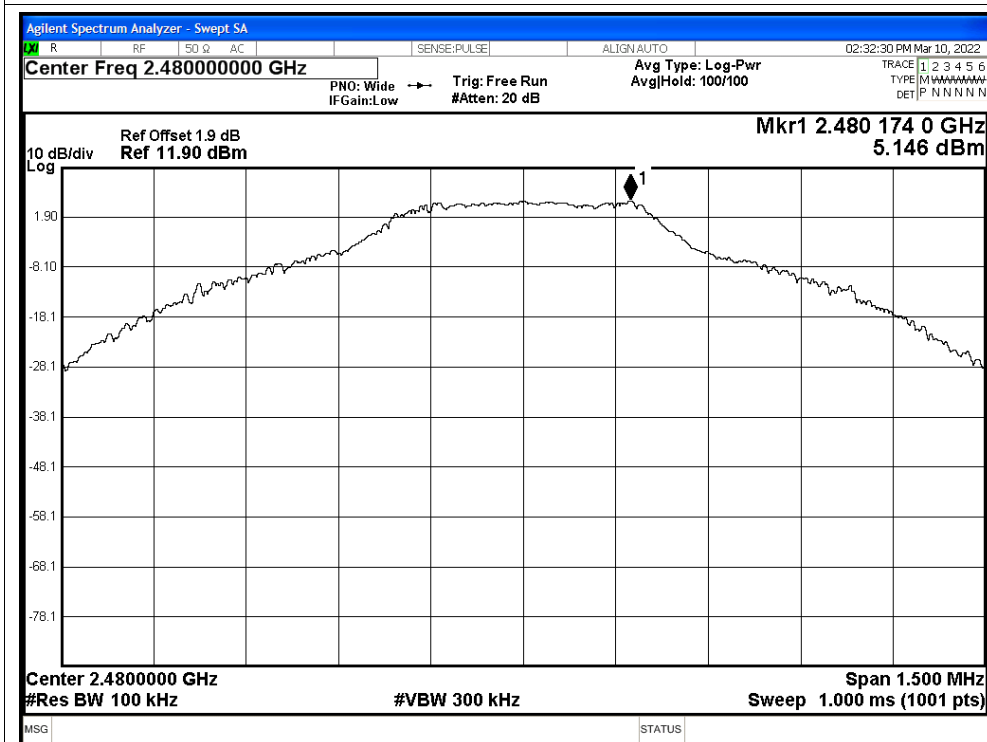


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

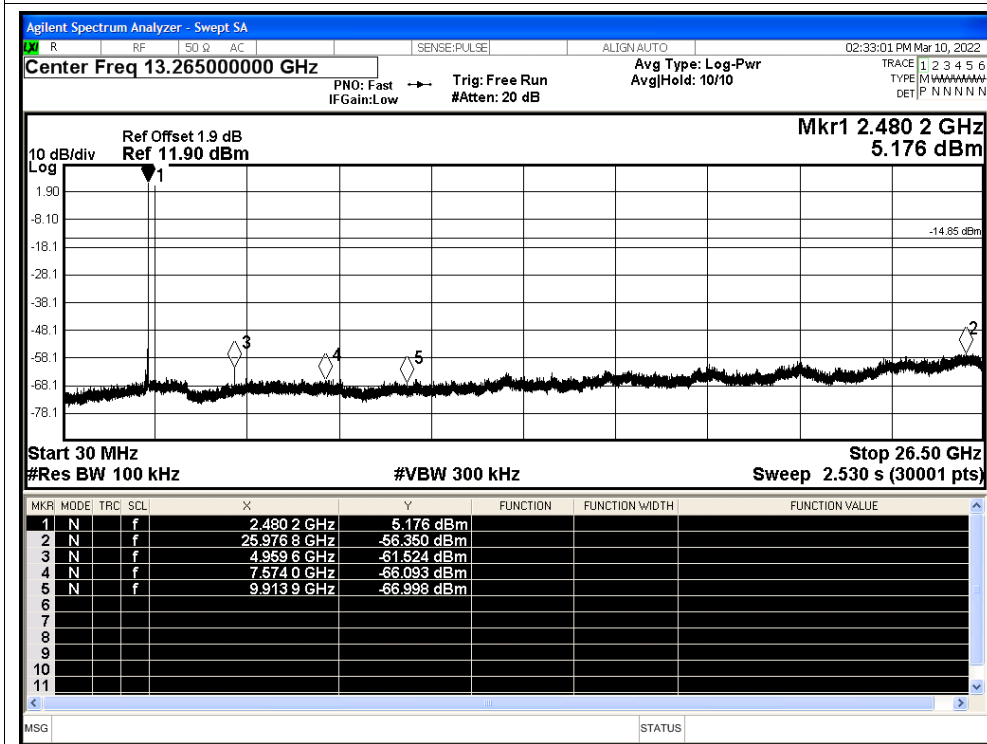




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

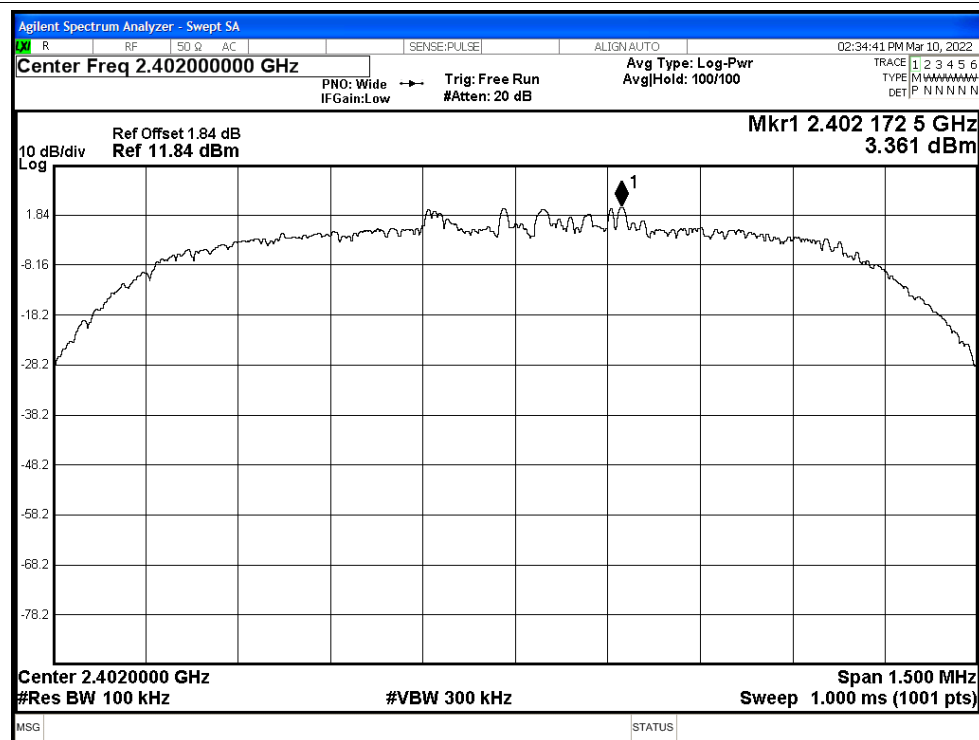


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

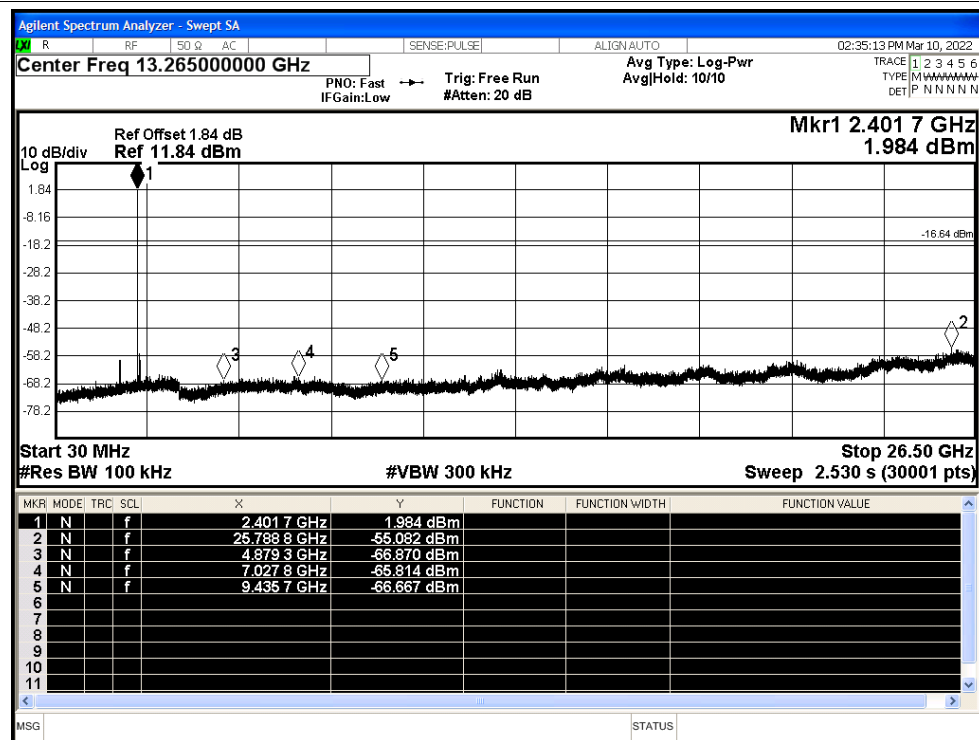




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

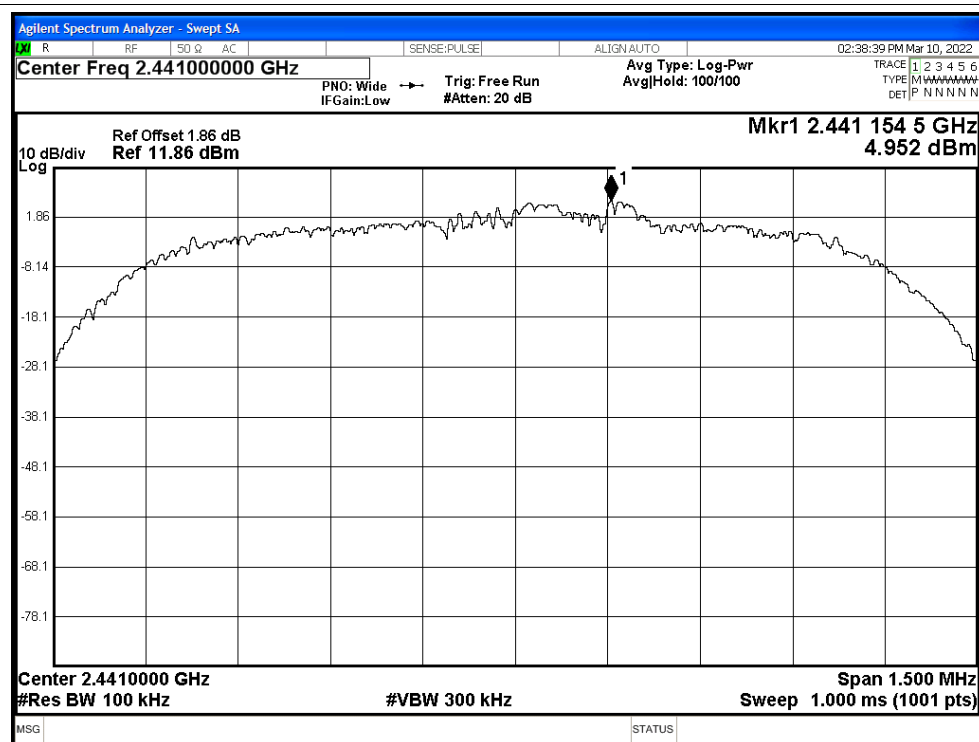


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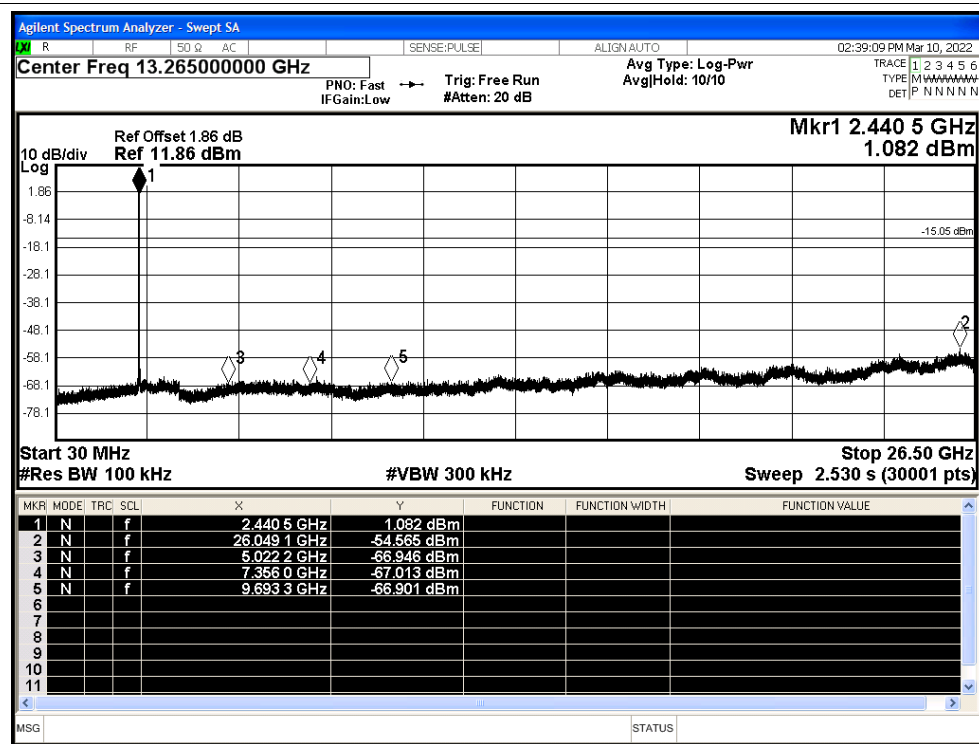




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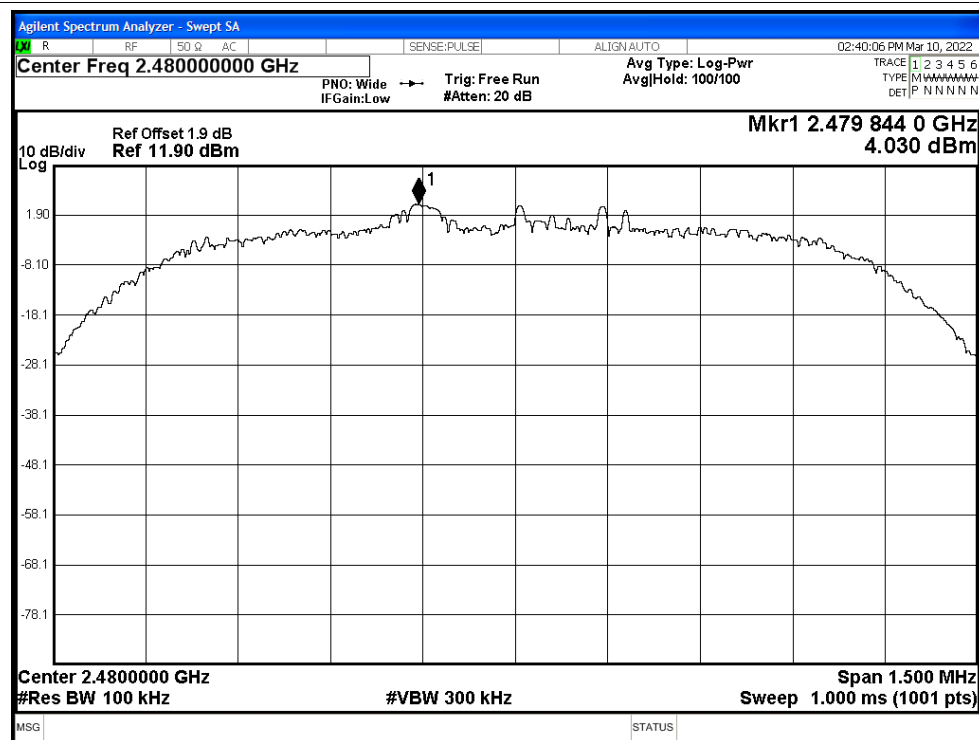


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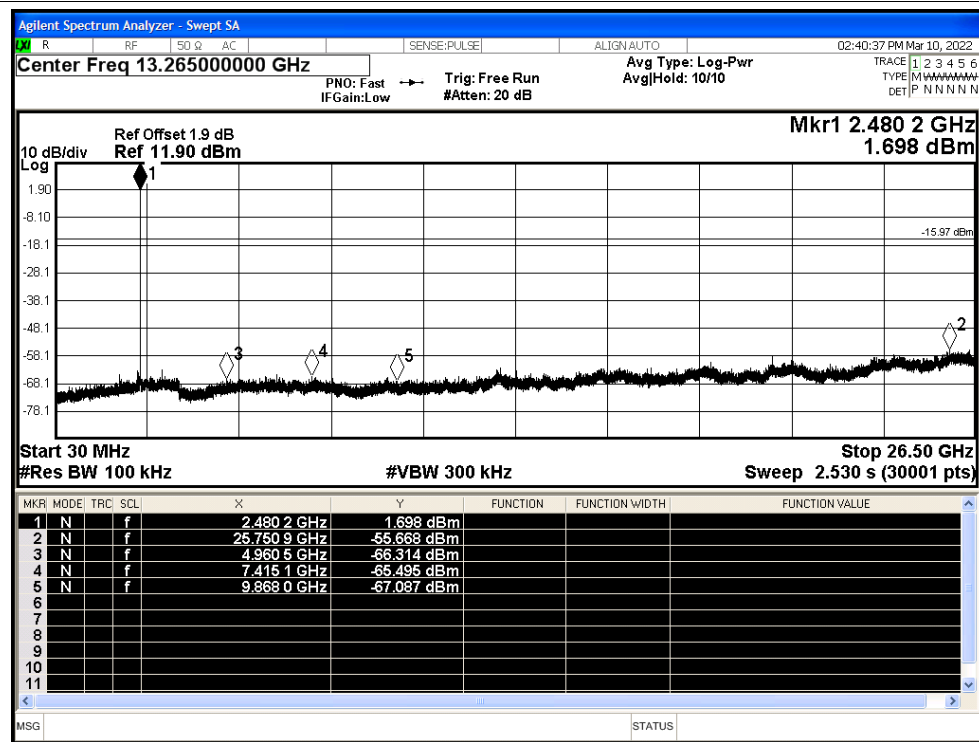




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

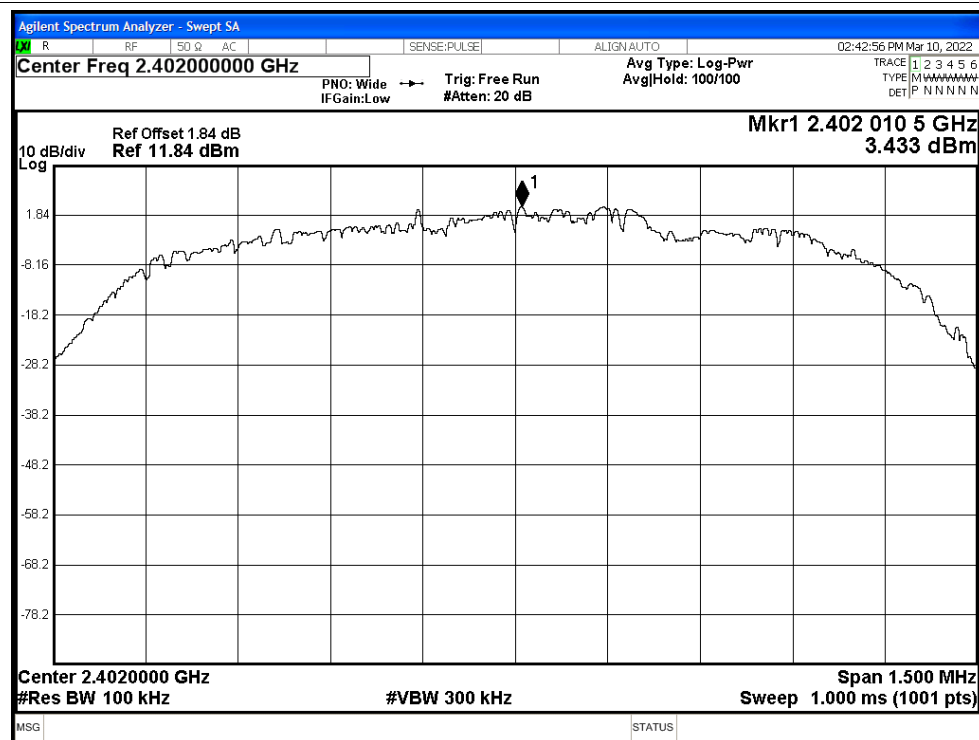


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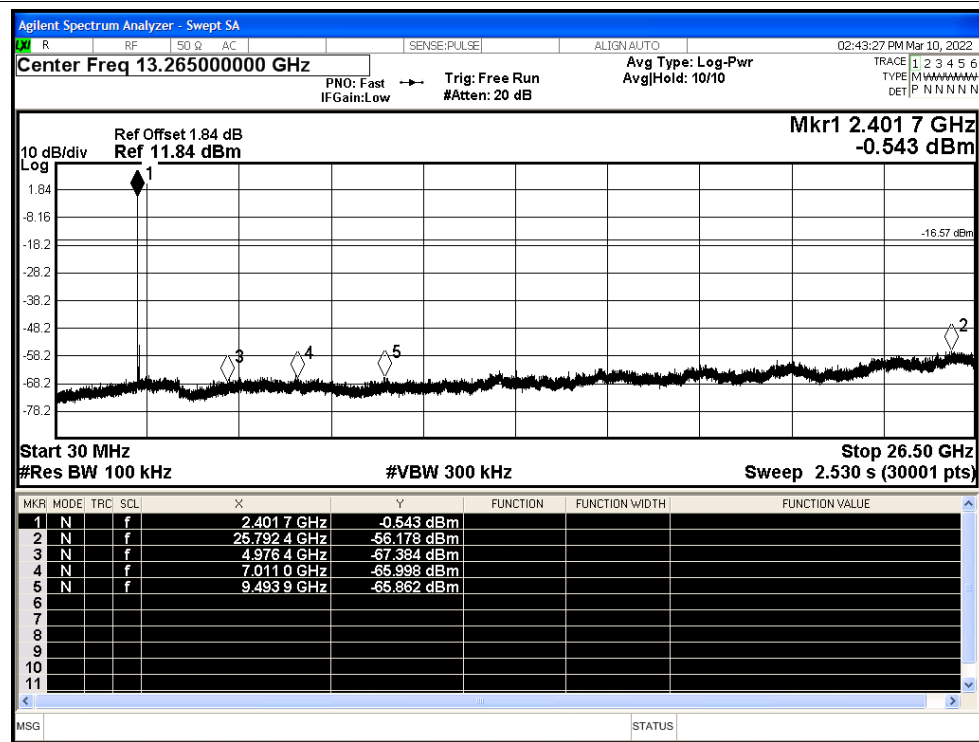




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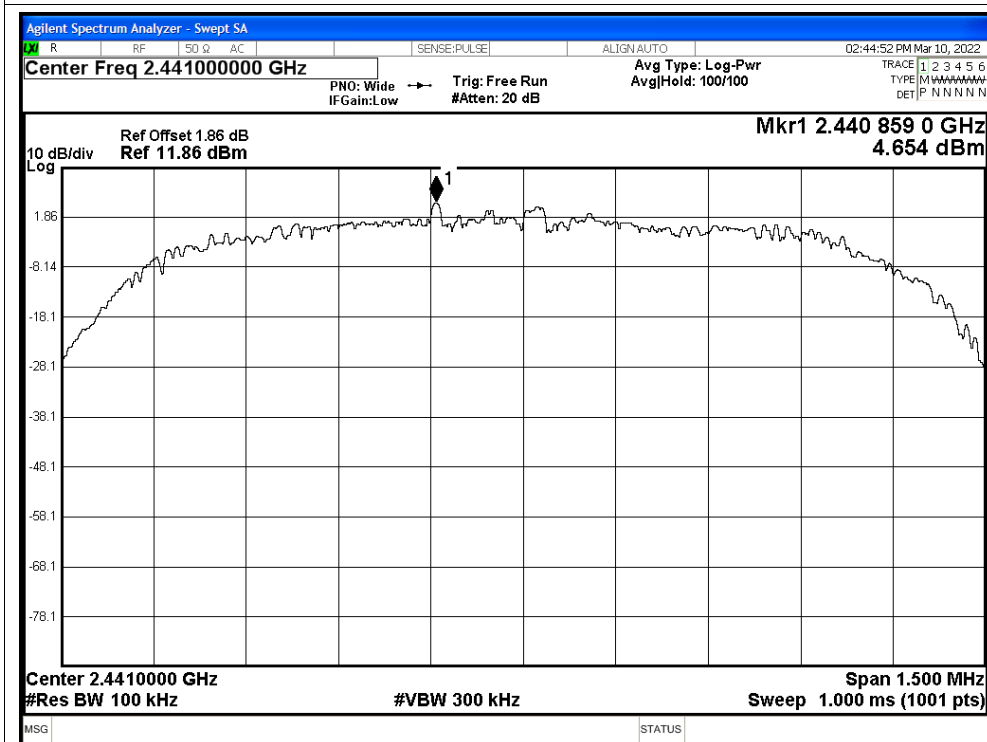


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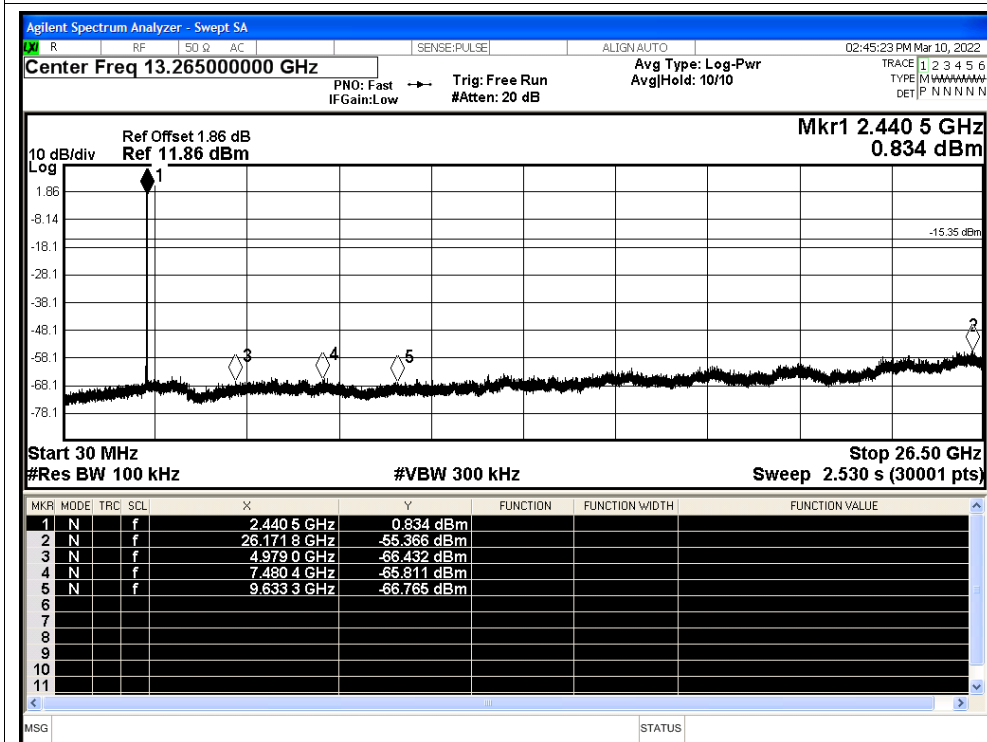




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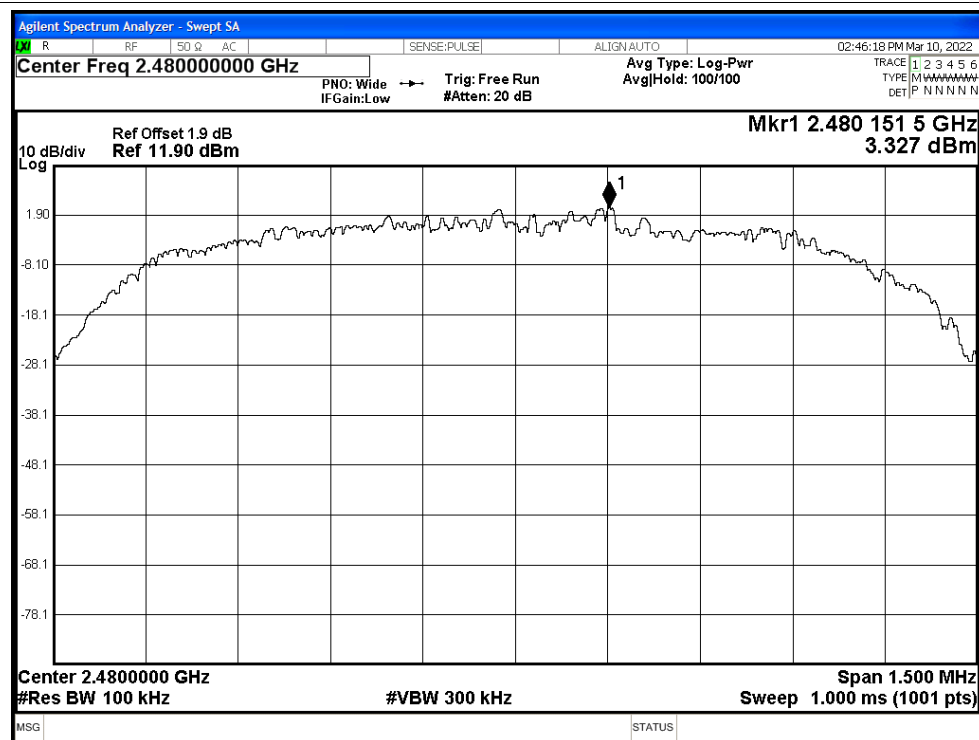


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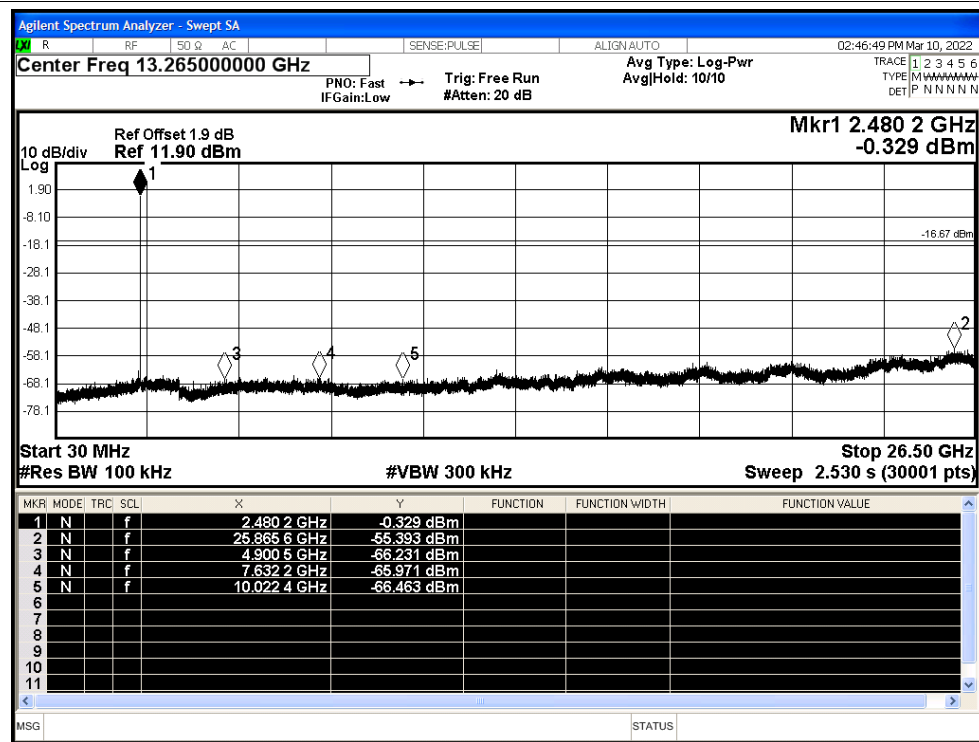




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





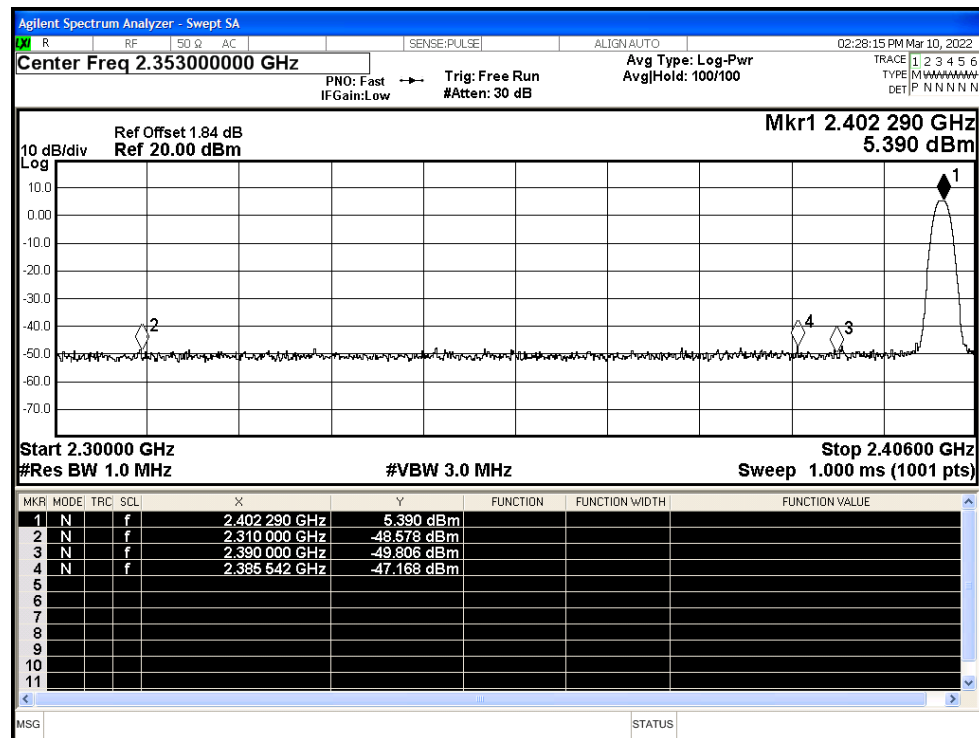
A.8 Restrict Band

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	-51.52	2	45.74	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.67	2	36.59	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.542	-47.16	2	50.1	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.966	-60.26	2	37	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.71	2	45.55	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.52	2	36.74	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.52	2	47.74	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.82	2	38.44	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.362	-47.94	2	49.32	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.548	-58.82	2	38.44	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.24	2	46.02	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.12	2	37.14	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.97	2	45.29	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.73	2	36.53	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.316	-47.97	2	49.29	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.57	-60.29	2	36.97	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.72	2	46.54	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.52	2	36.74	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.51	2	48.75	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.88	2	38.38	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2493.168	-47.39	2	49.87	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.696	-58.86	2	38.4	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.11	2	48.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.07	2	37.19	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.36	2	46.9	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.89	2	36.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2379.5	-48.37	2	48.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2385.012	-60.23	2	37.03	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.23	2	48.03	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.45	2	36.81	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.36	2	47.9	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.6	2	38.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.066	-47.77	2	49.49	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.548	-58.6	2	38.66	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.66	2	47.6	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-60.04	2	37.22	Average	54	Pass

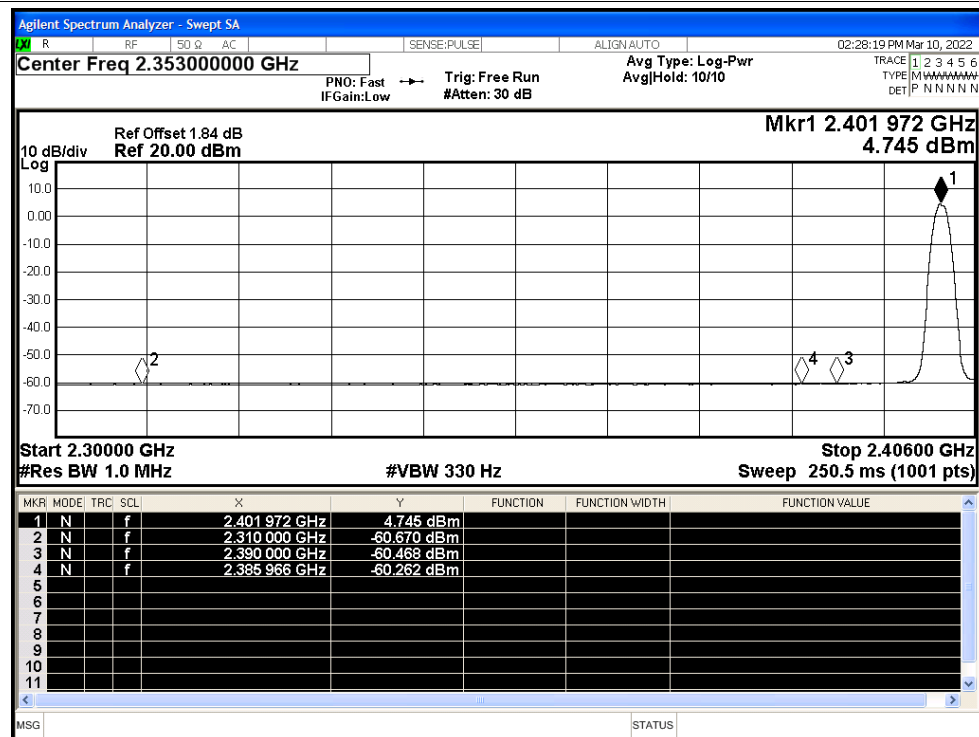


Test Graphs

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

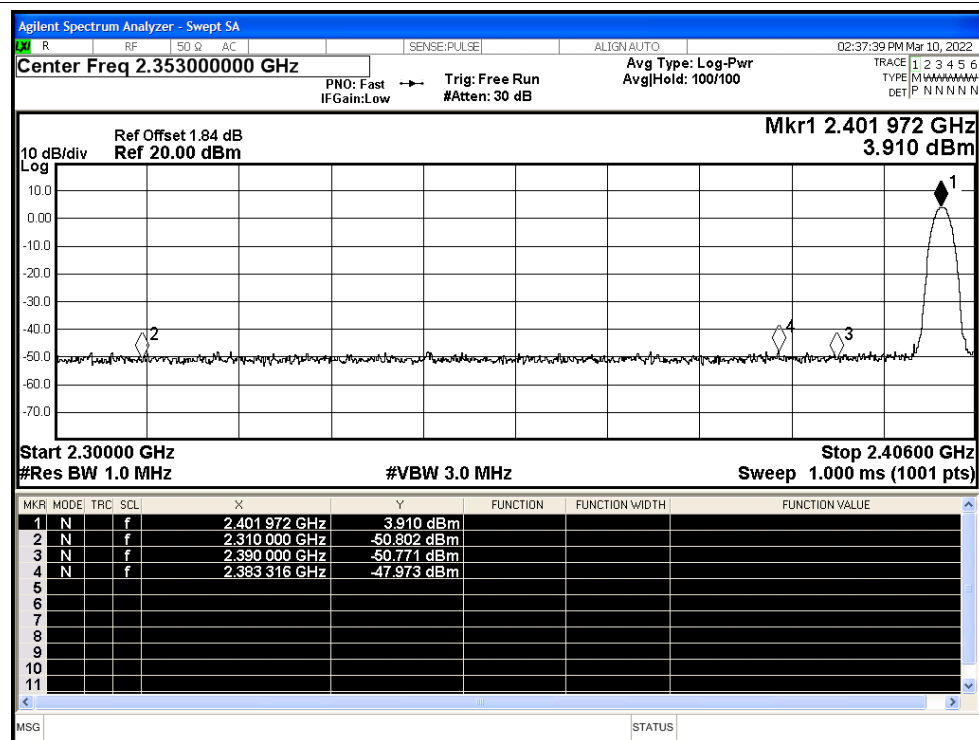


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

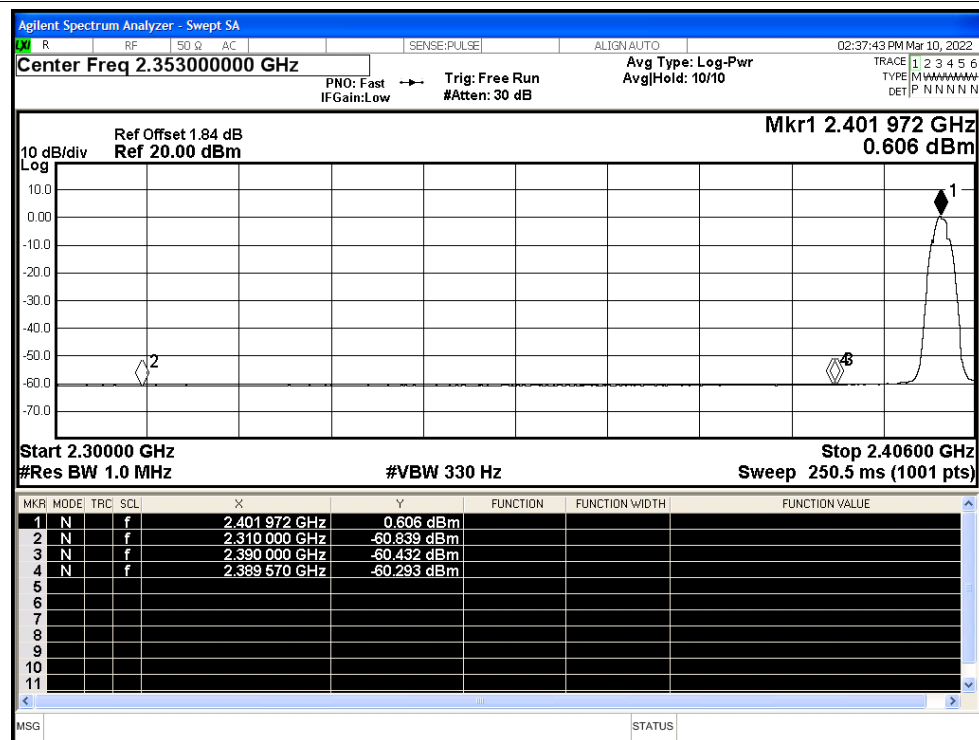




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

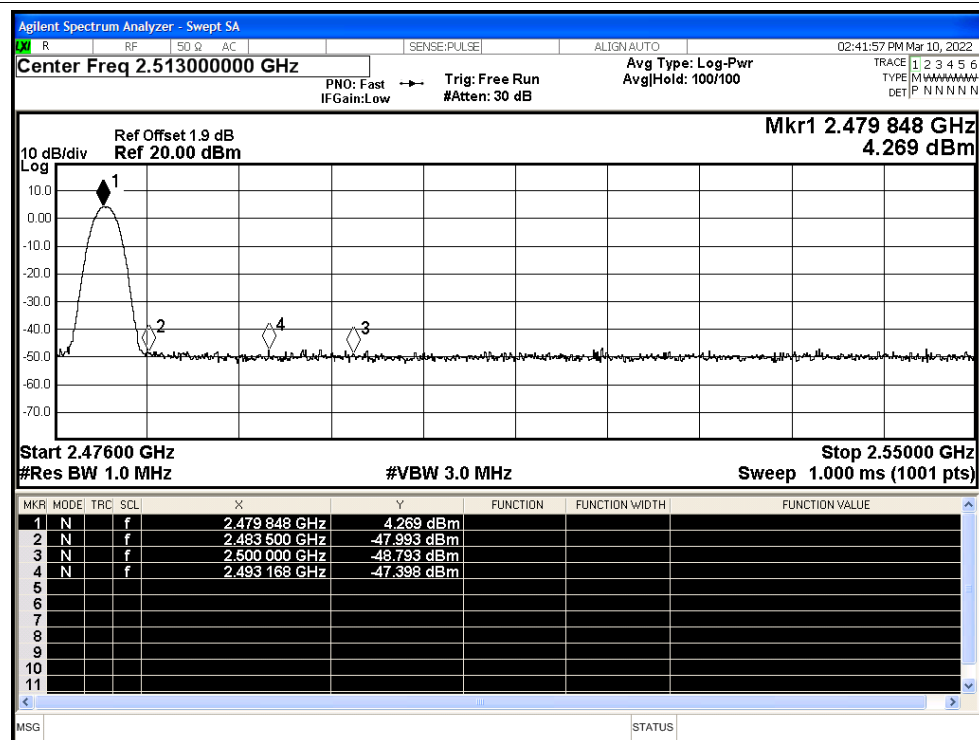


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

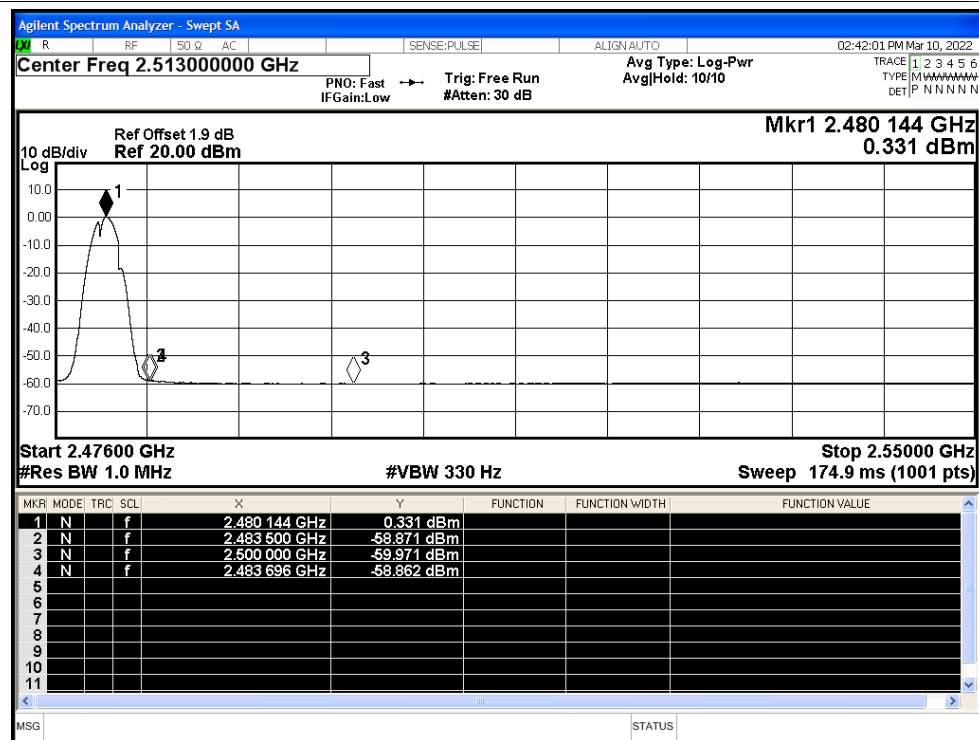




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

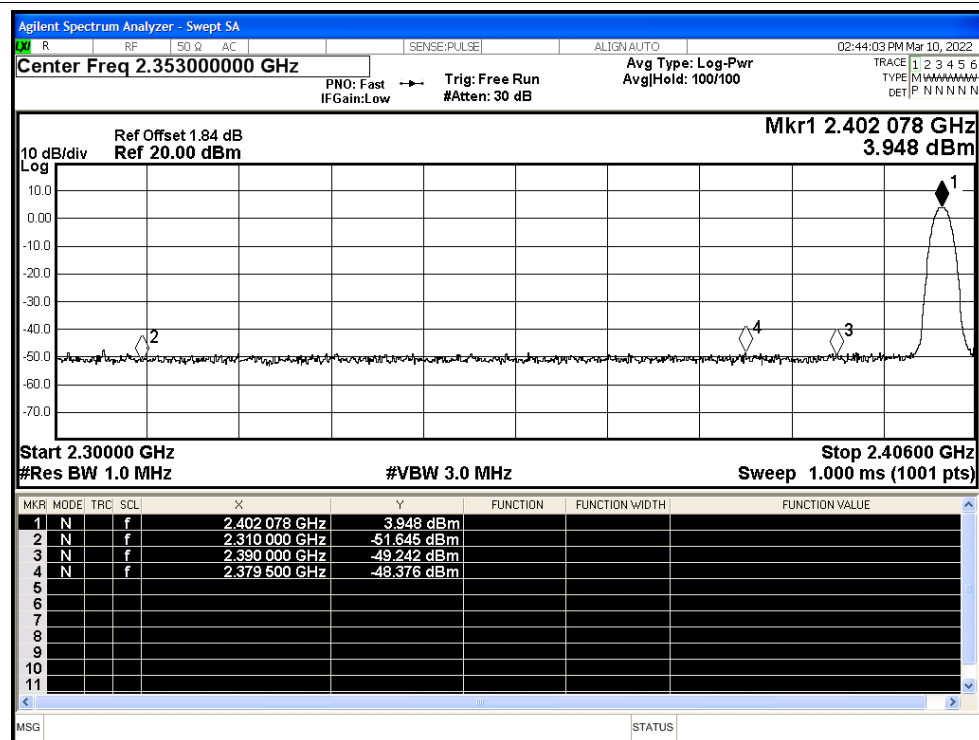


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

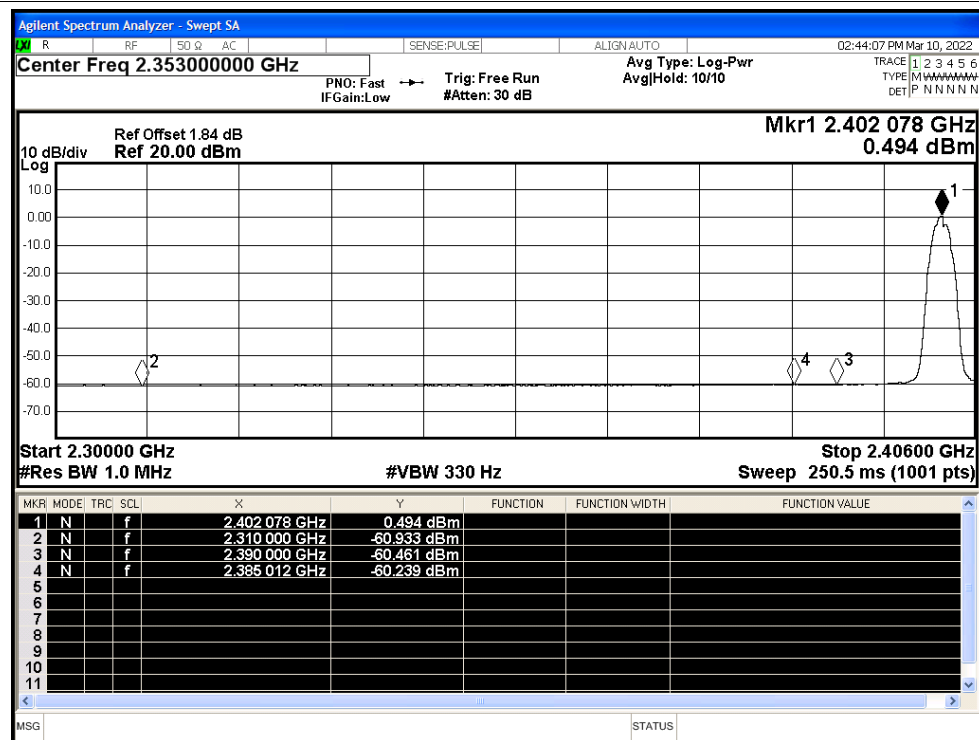




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

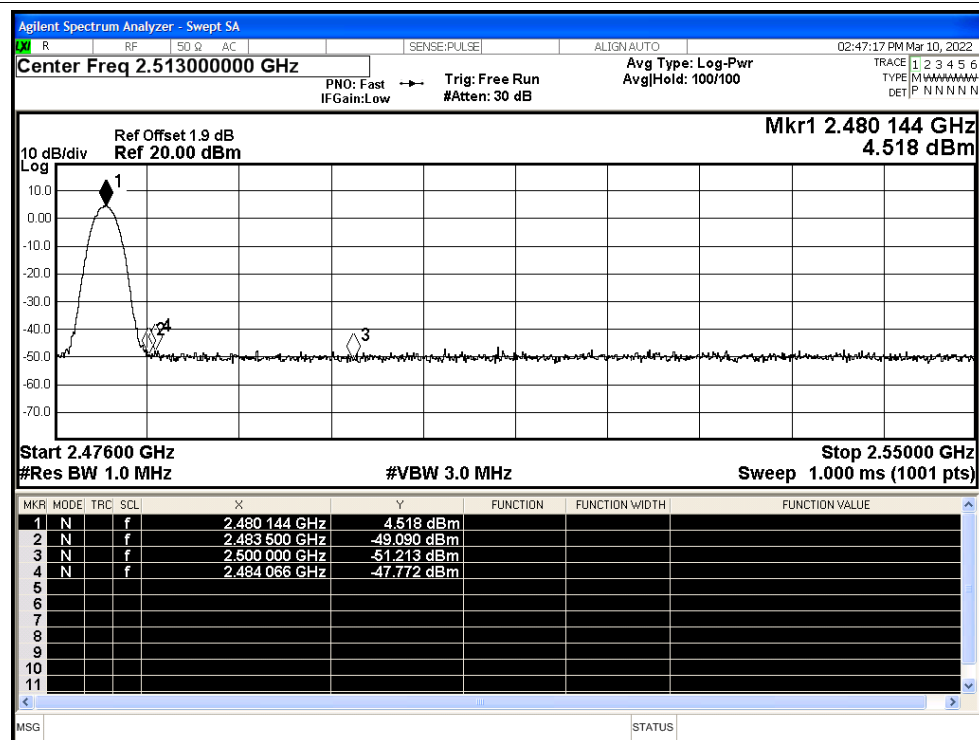


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

