



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless earphone

Test Model: BHD-TW11

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.991	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.029	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.034	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.283	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.304	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.321	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.017	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.04	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.037	N/A	Pass

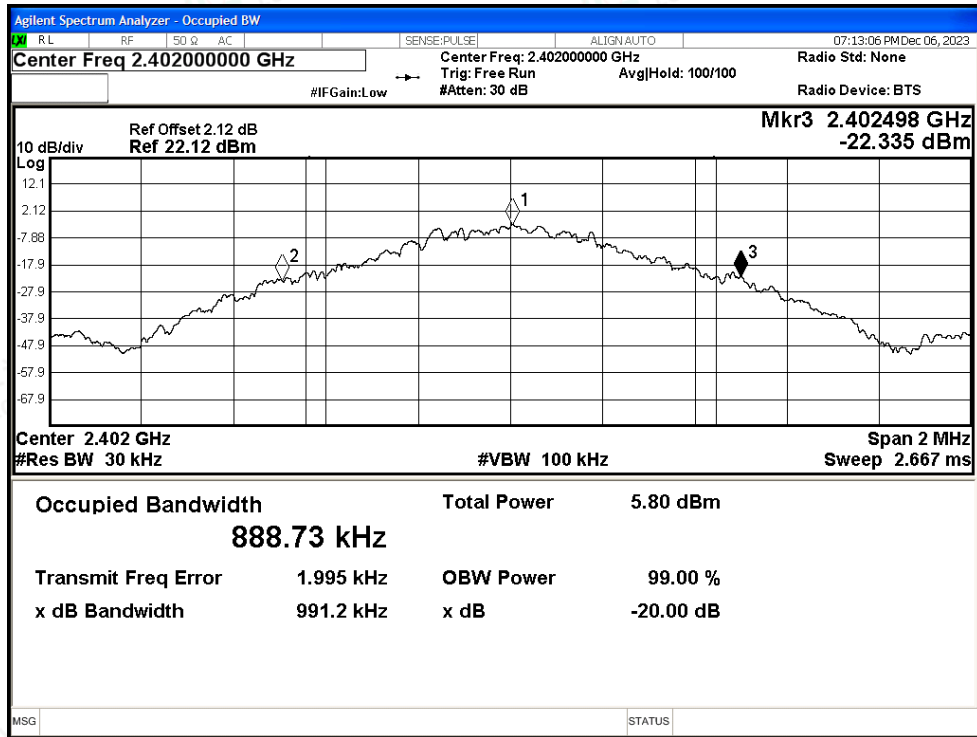


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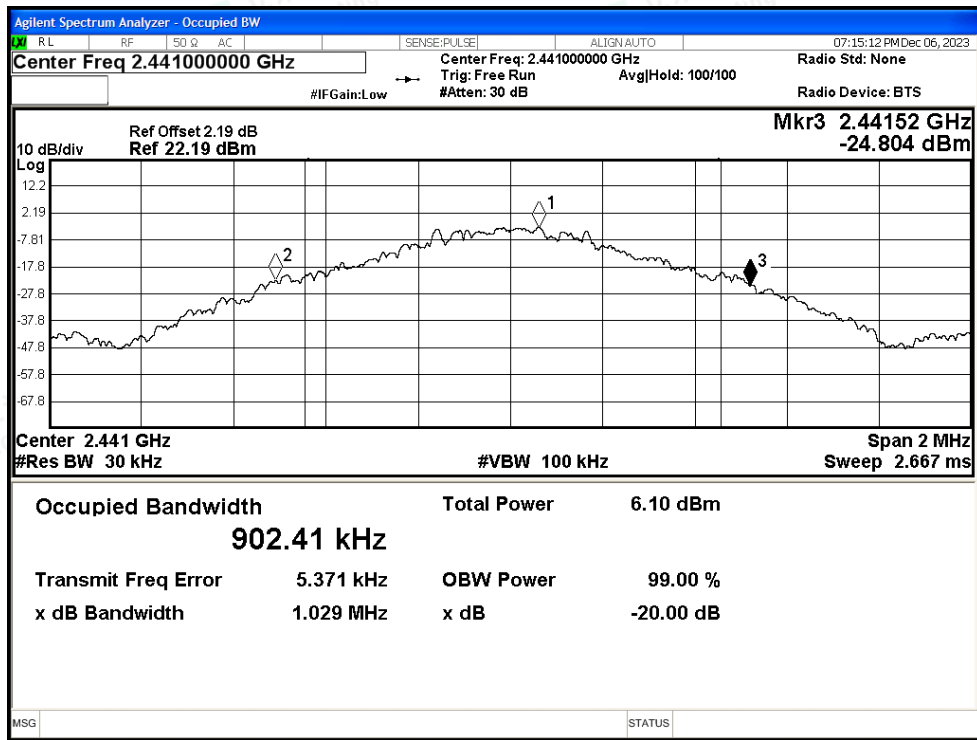


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

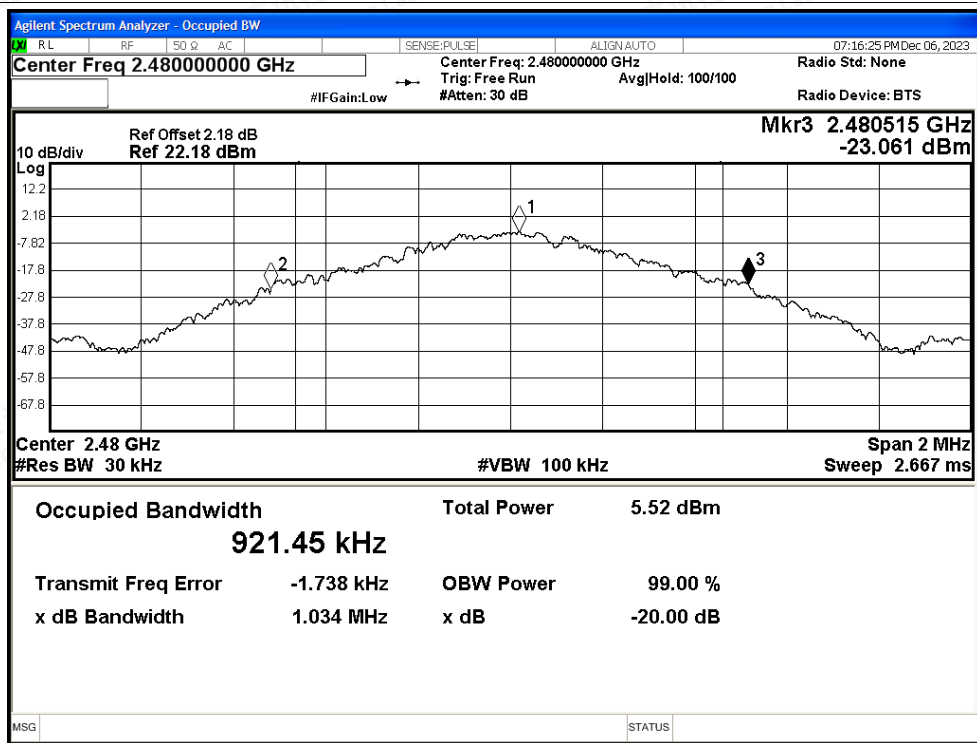


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

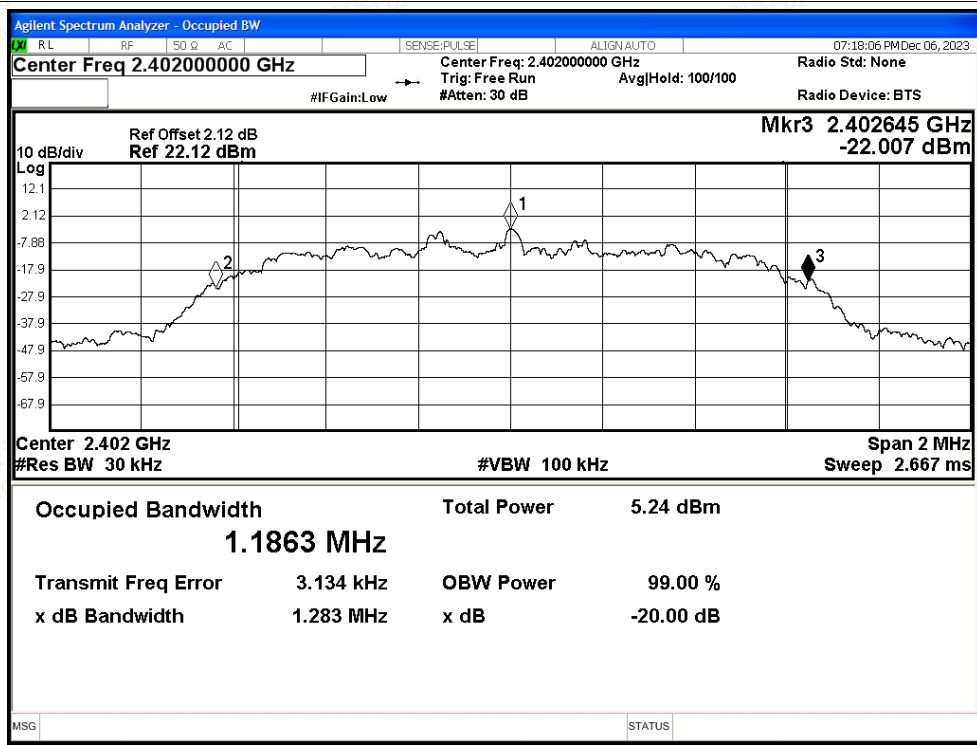




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

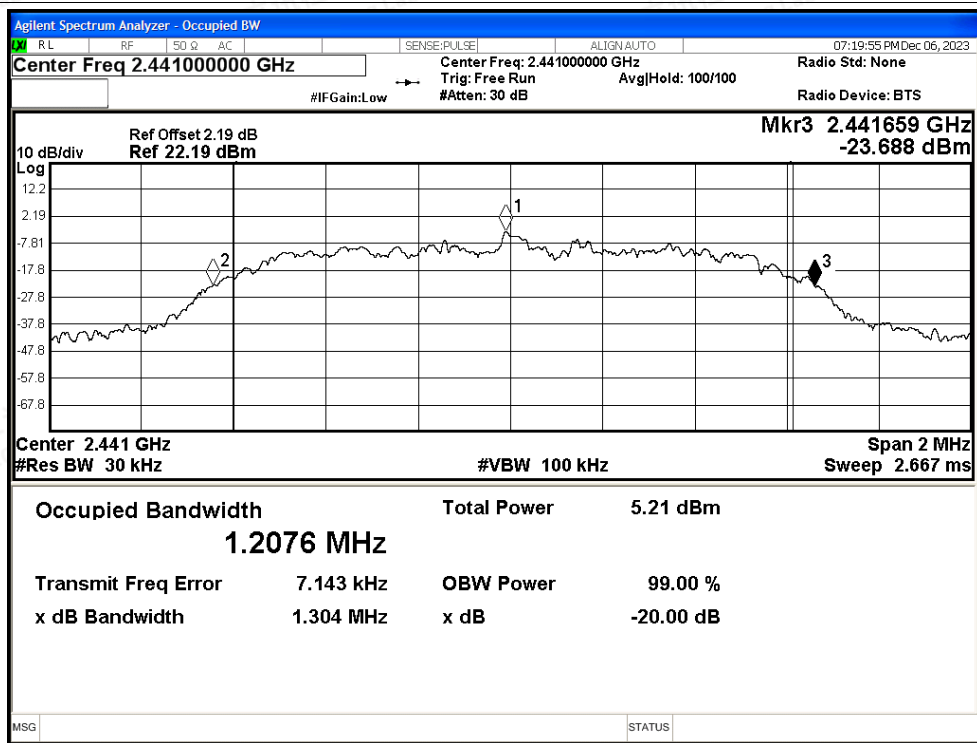


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

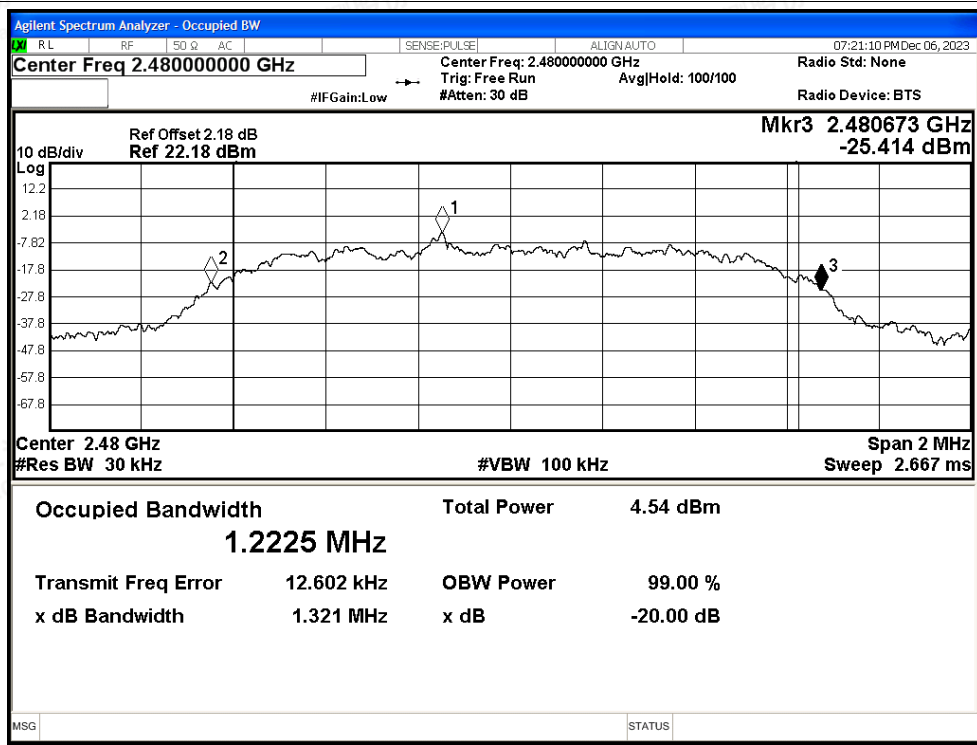




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

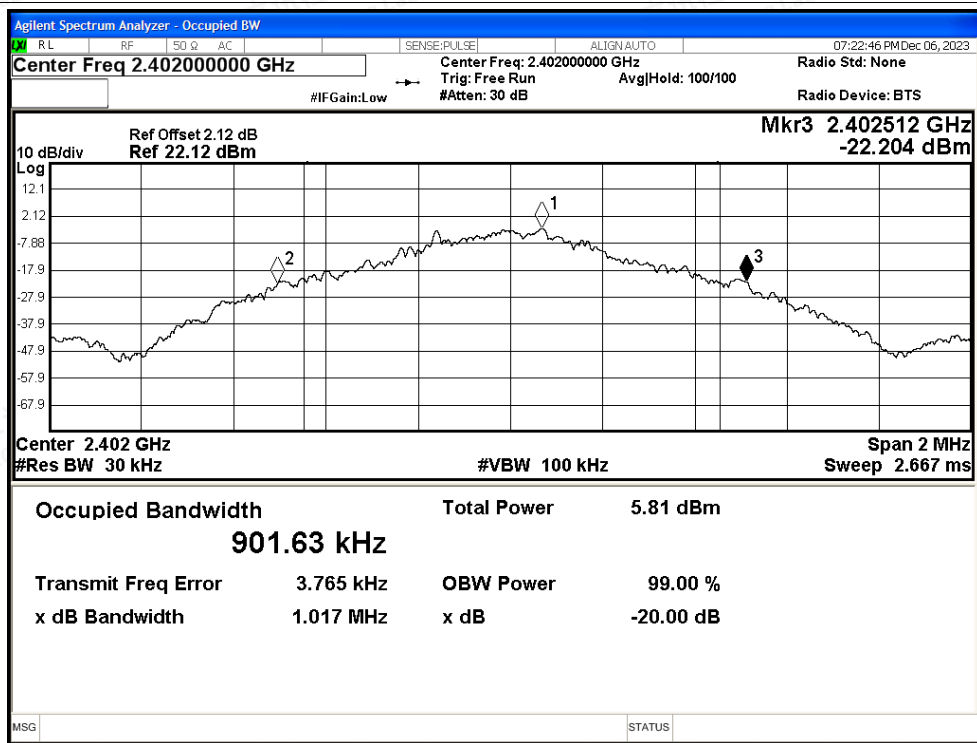


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

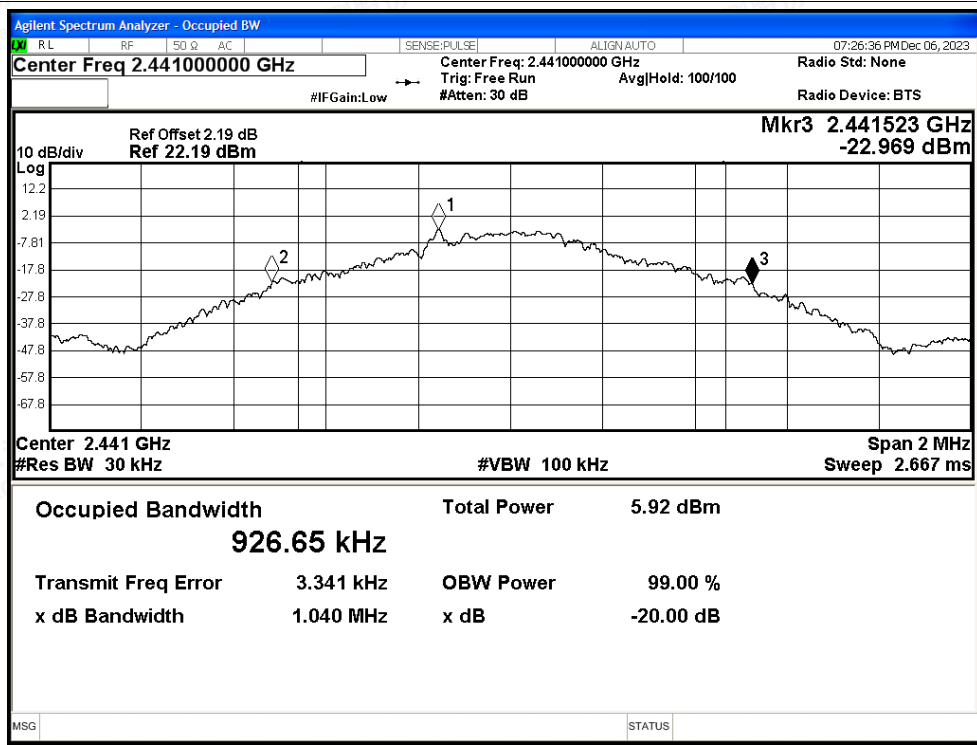


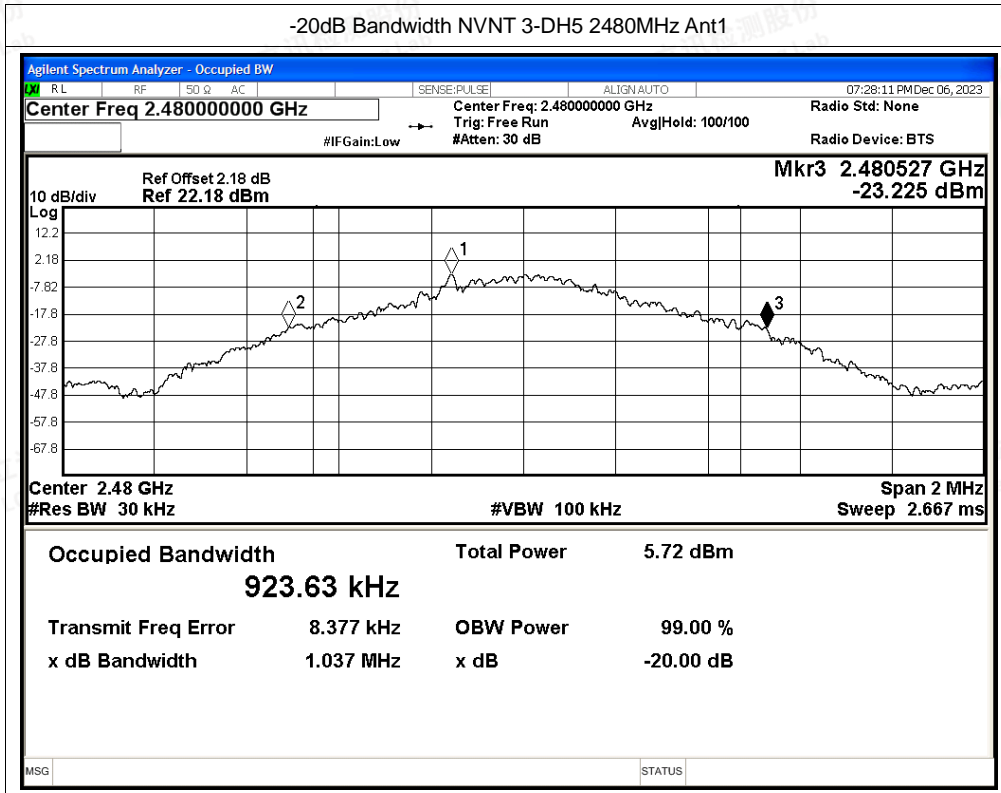


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Peak Conducted Output Power

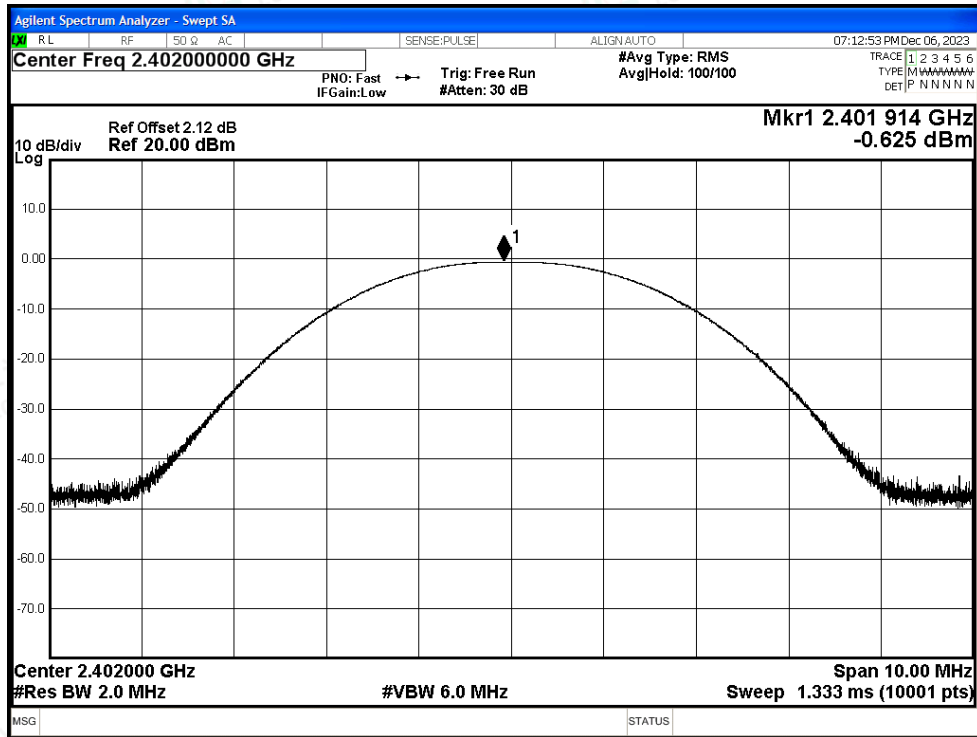
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.63	21	Pass
NVNT	1-DH5	2441	Ant1	-0.3	21	Pass
NVNT	1-DH5	2480	Ant1	-0.73	21	Pass
NVNT	2-DH5	2402	Ant1	0.22	21	Pass
NVNT	2-DH5	2441	Ant1	0.49	21	Pass
NVNT	2-DH5	2480	Ant1	0.07	21	Pass
NVNT	3-DH5	2402	Ant1	-0.62	21	Pass
NVNT	3-DH5	2441	Ant1	-0.27	21	Pass
NVNT	3-DH5	2480	Ant1	-0.71	21	Pass



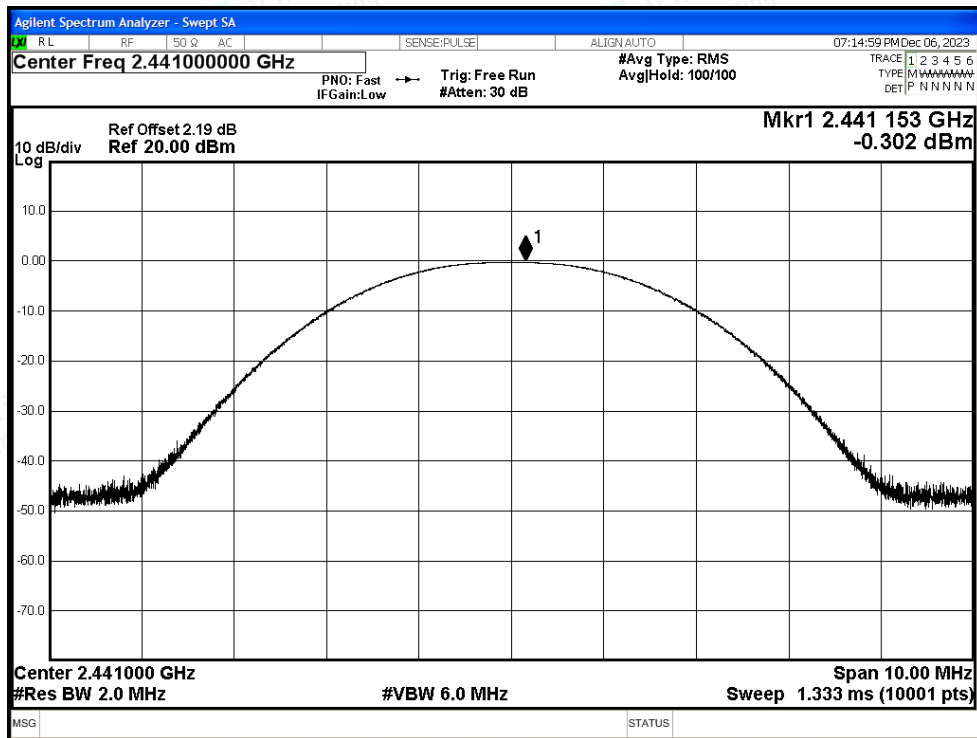


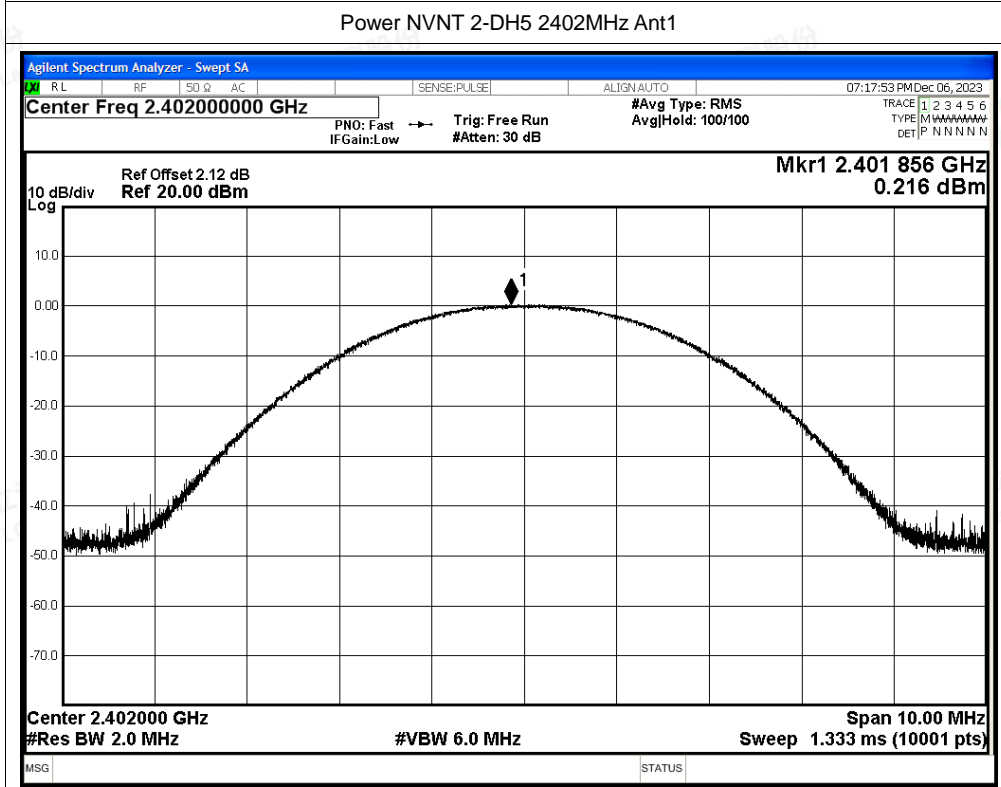
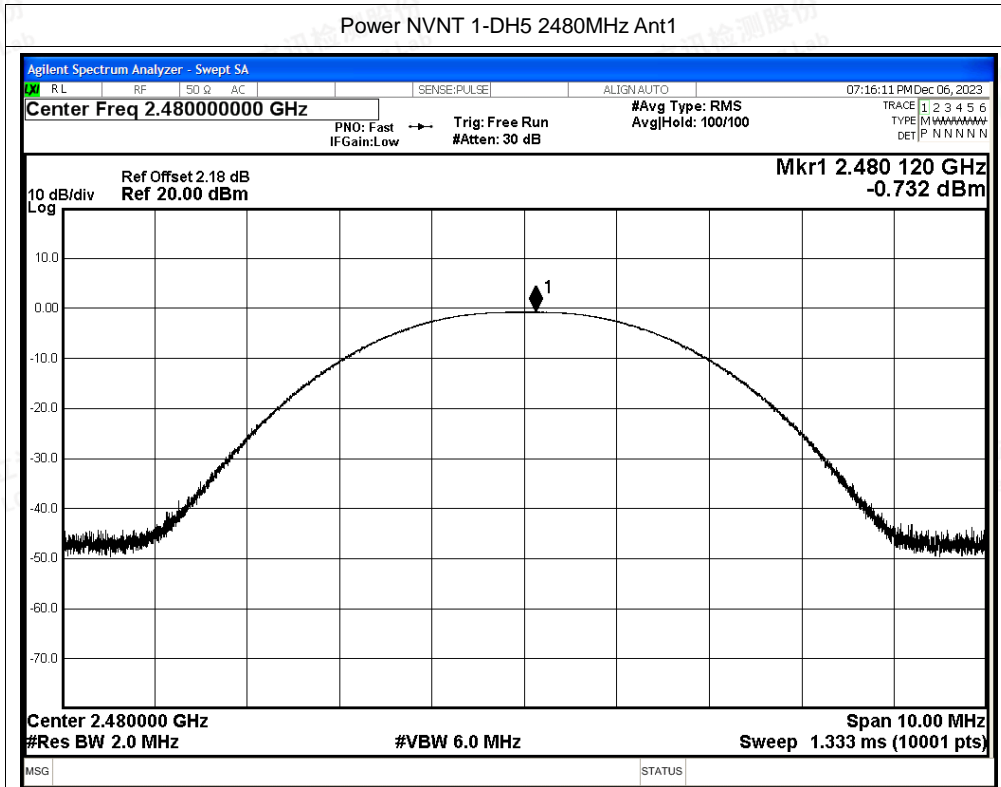
Test Graphs

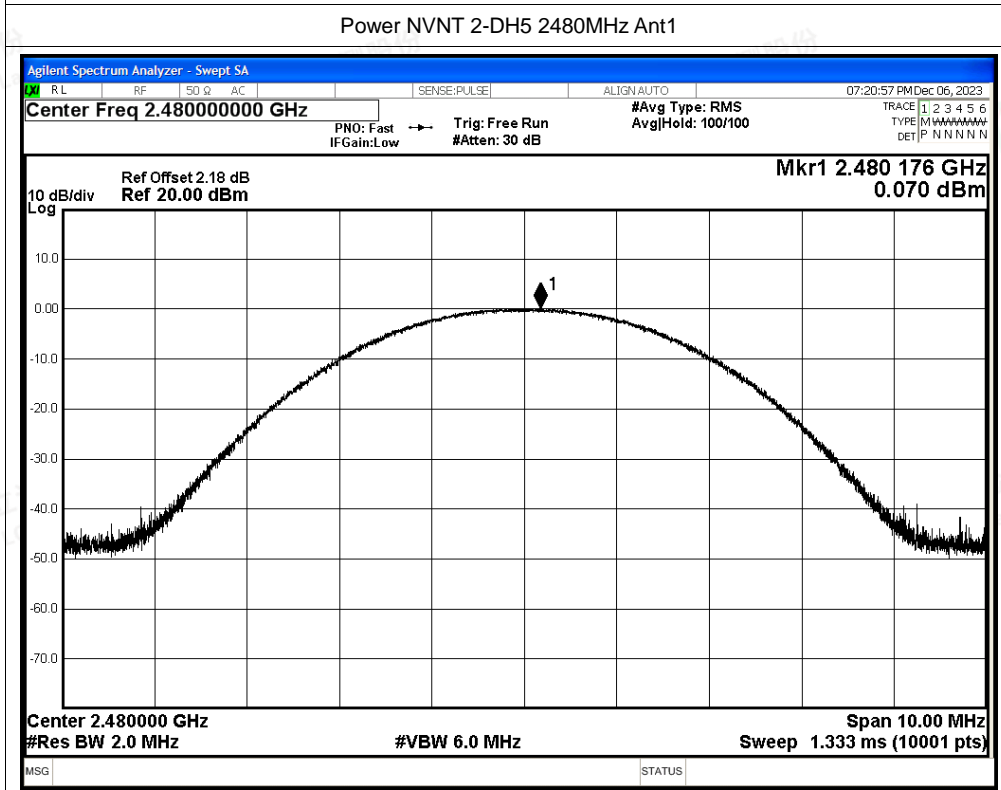
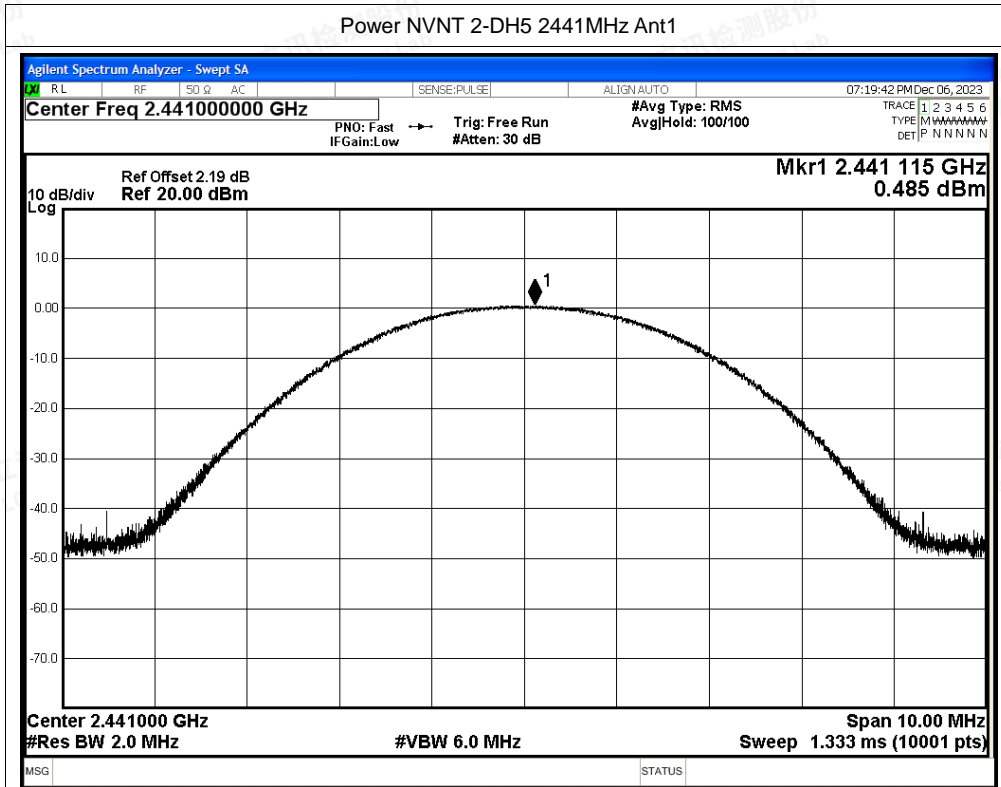
Power NVNT 1-DH5 2402MHz Ant1

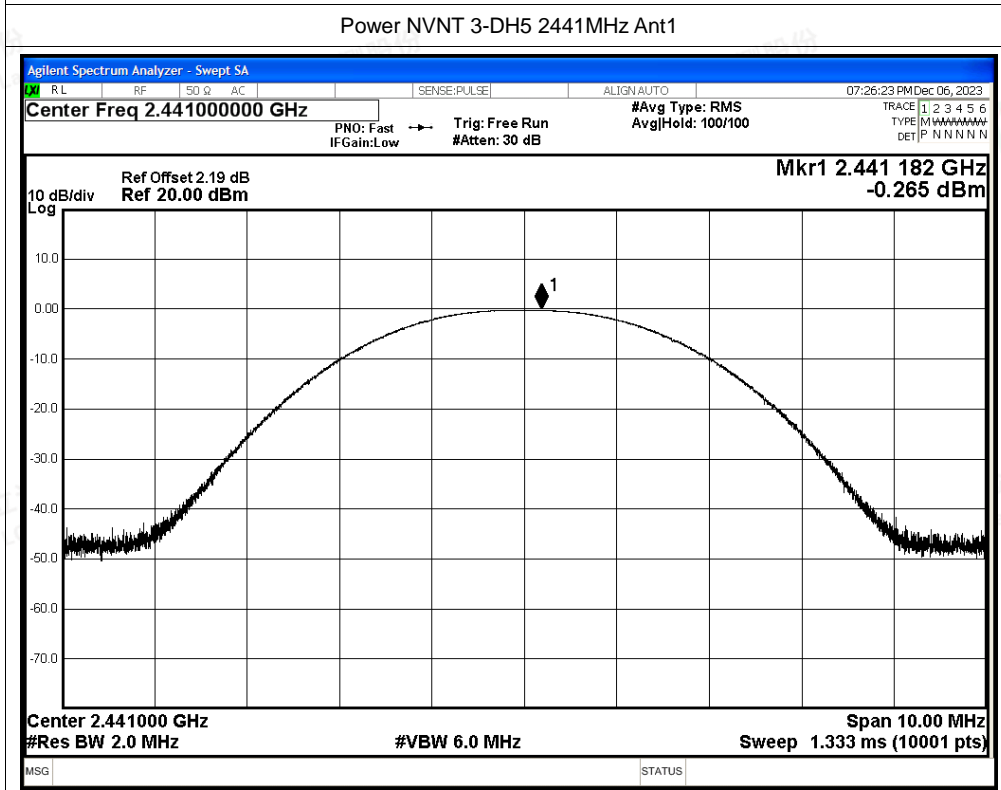
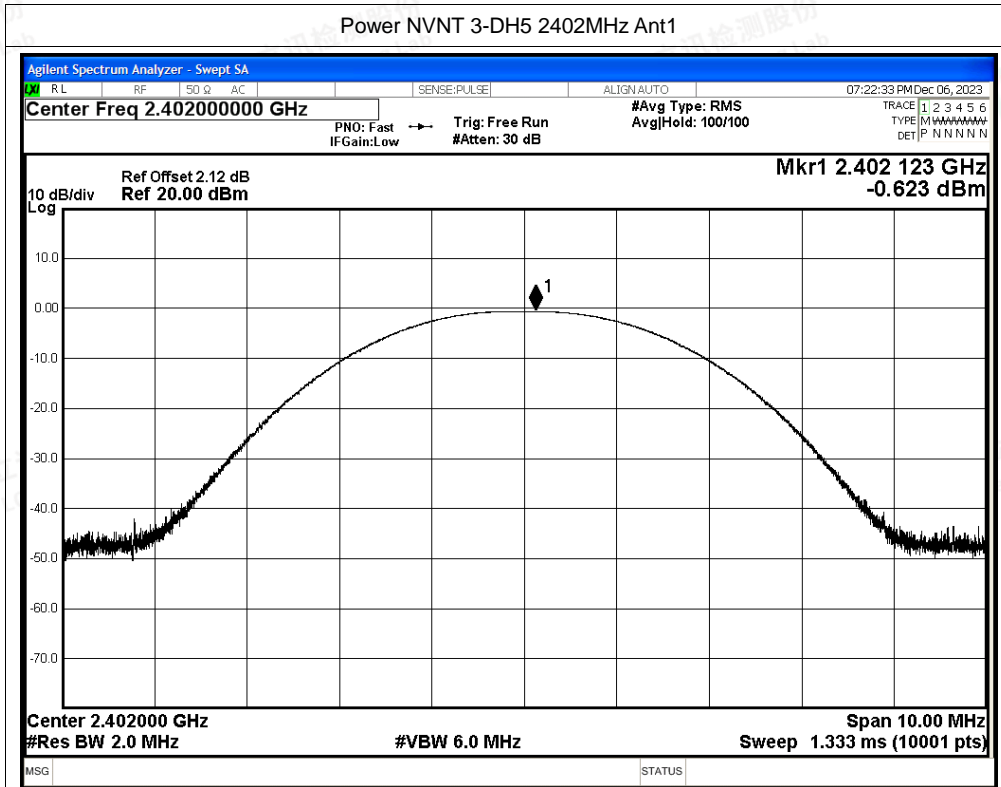


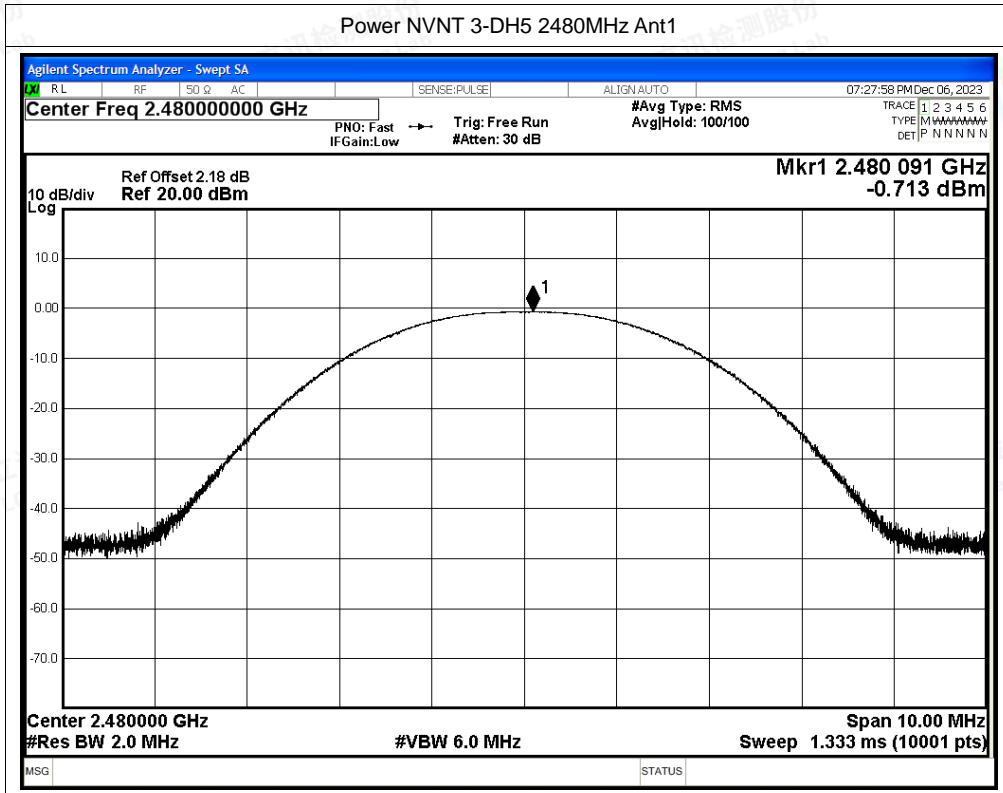
Power NVNT 1-DH5 2441MHz Ant1













A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402	2402.996	0.996	0.689	Pass
NVNT	2-DH5	Ant1	2402.002	2403.008	1.006	0.881	Pass
NVNT	3-DH5	Ant1	2402.026	2403.064	1.038	0.693	Pass

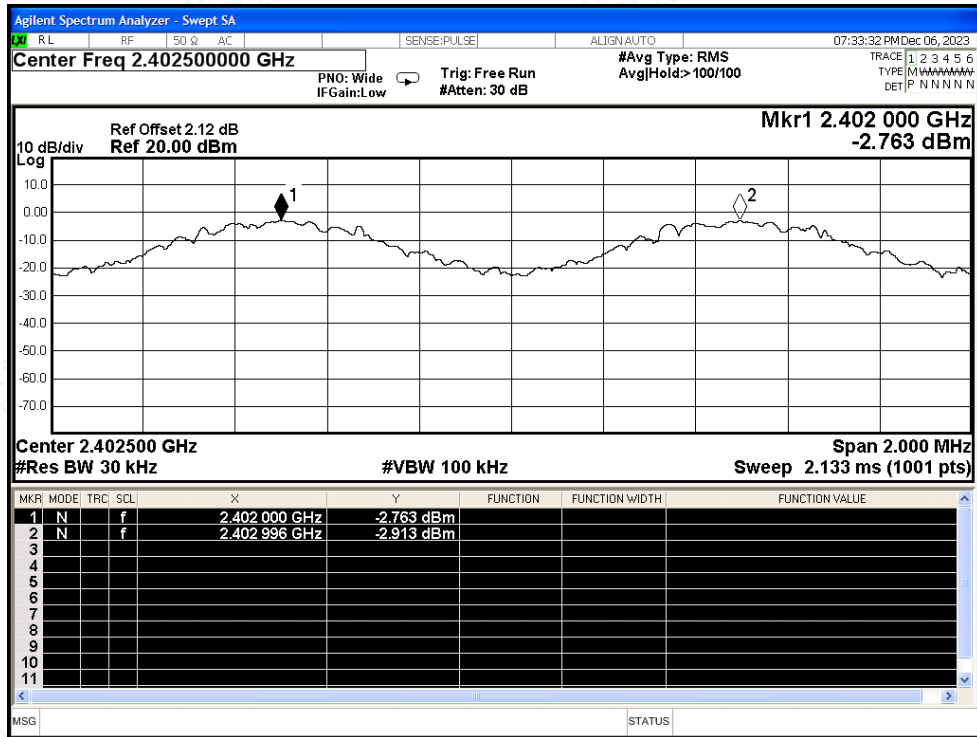


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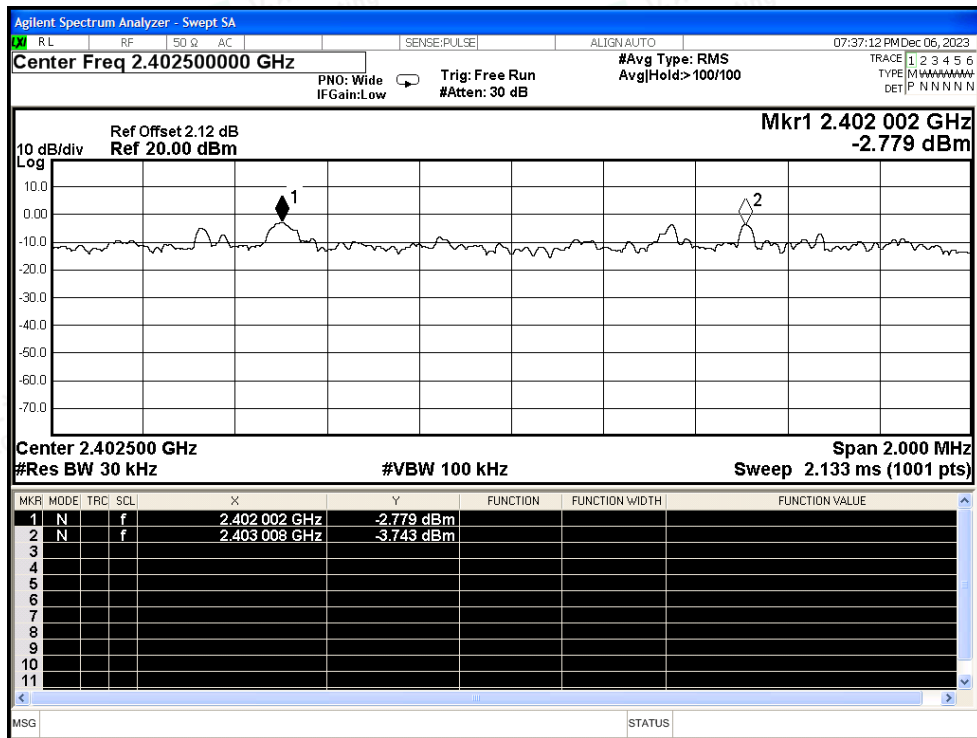


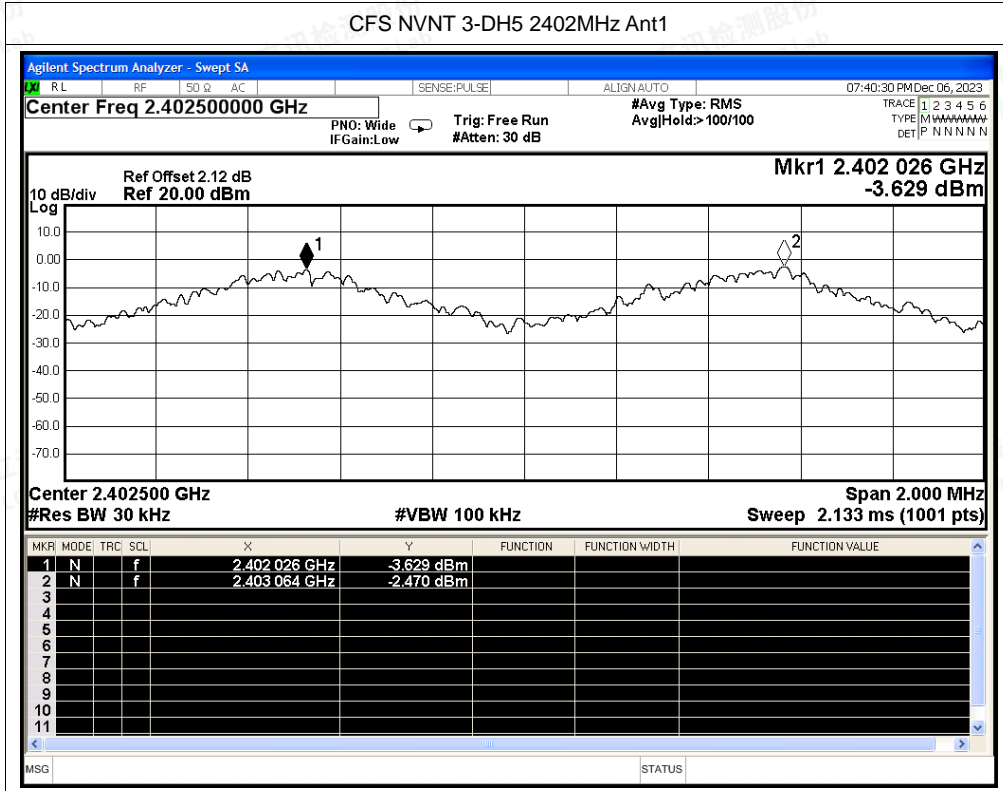
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.888	294.576	102	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	323.232	112	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.363	271.745	115	31600	400	Pass

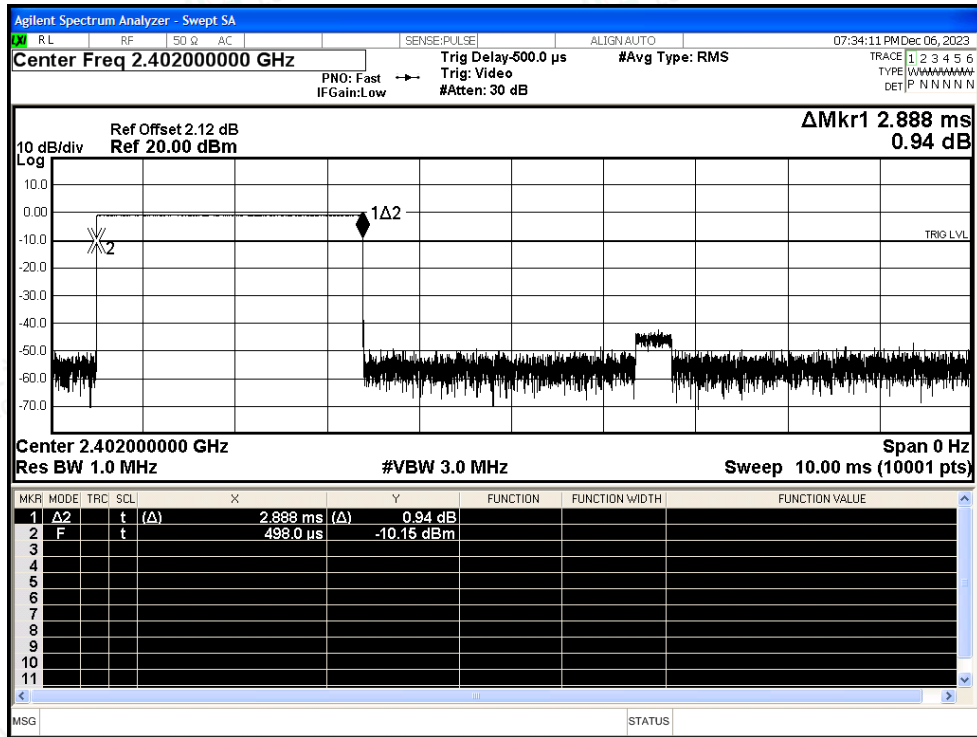


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Scan code to check authenticity

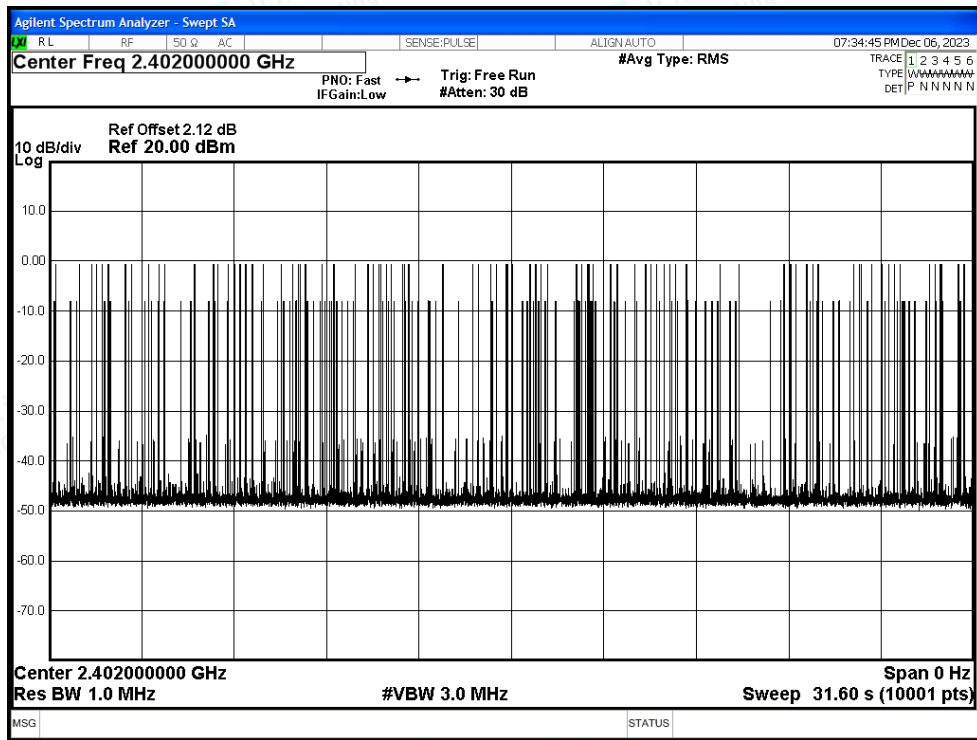


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

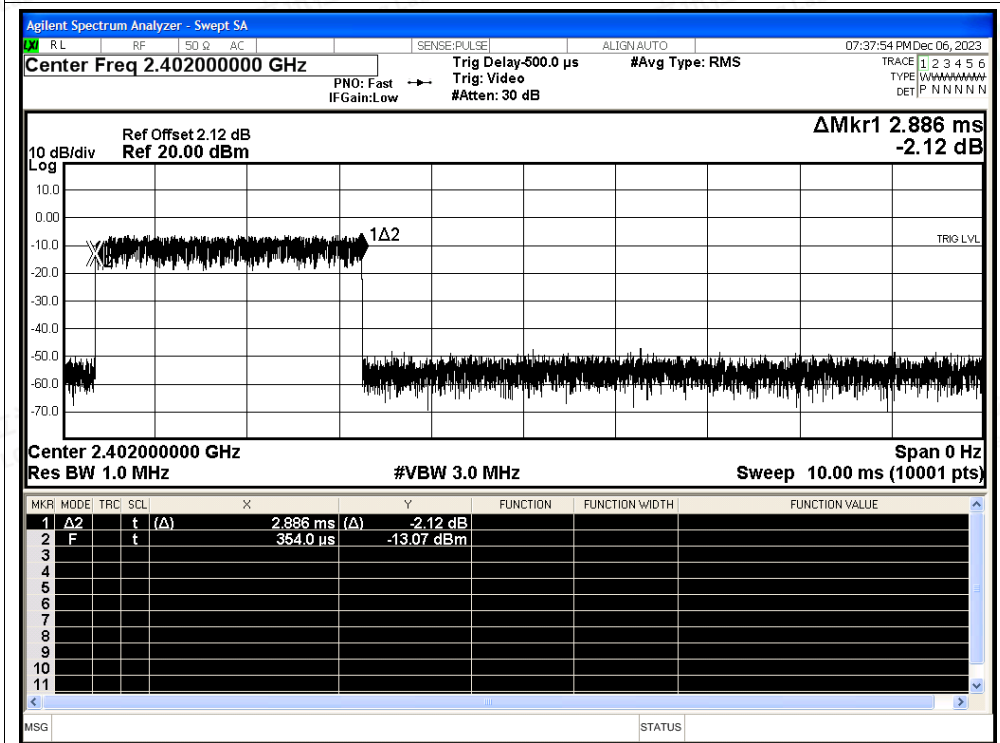


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

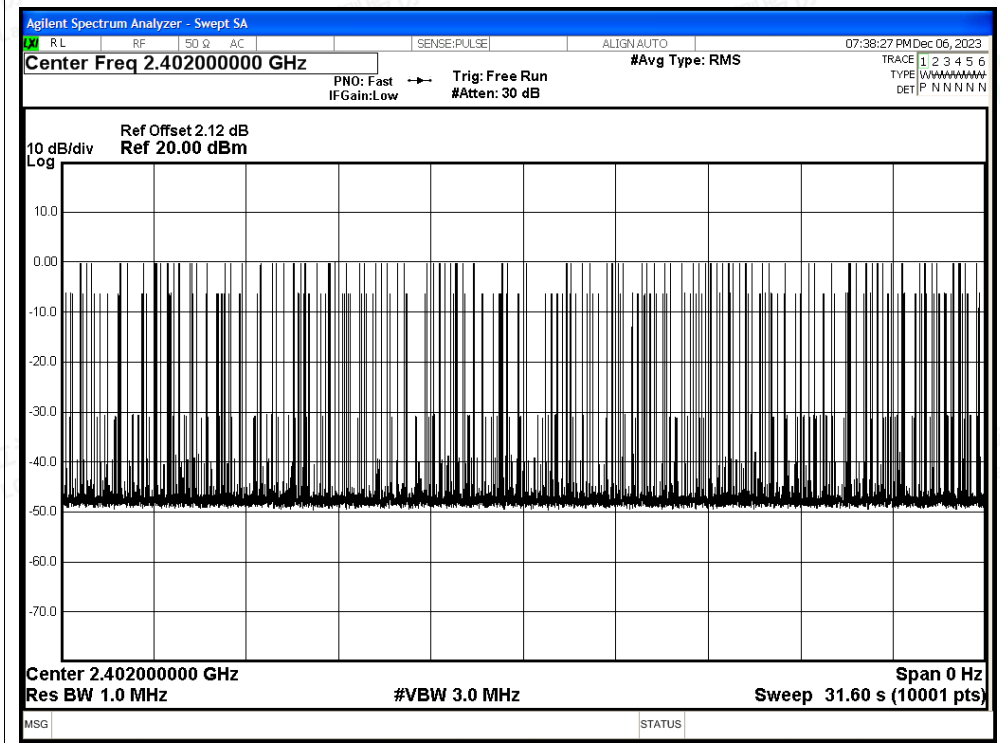




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

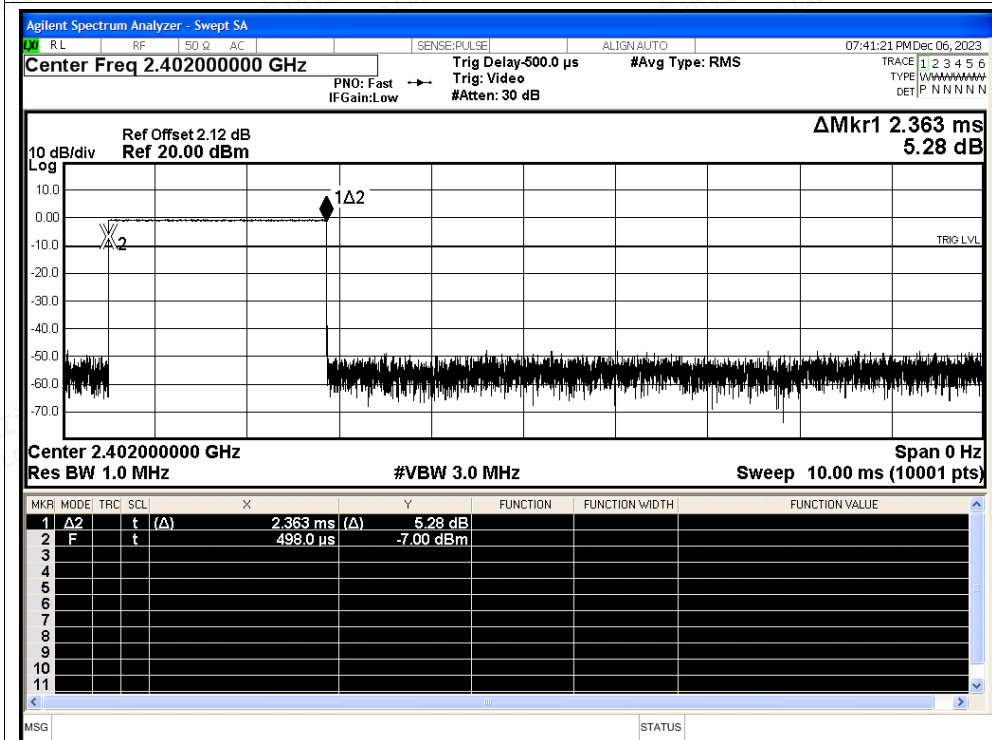


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

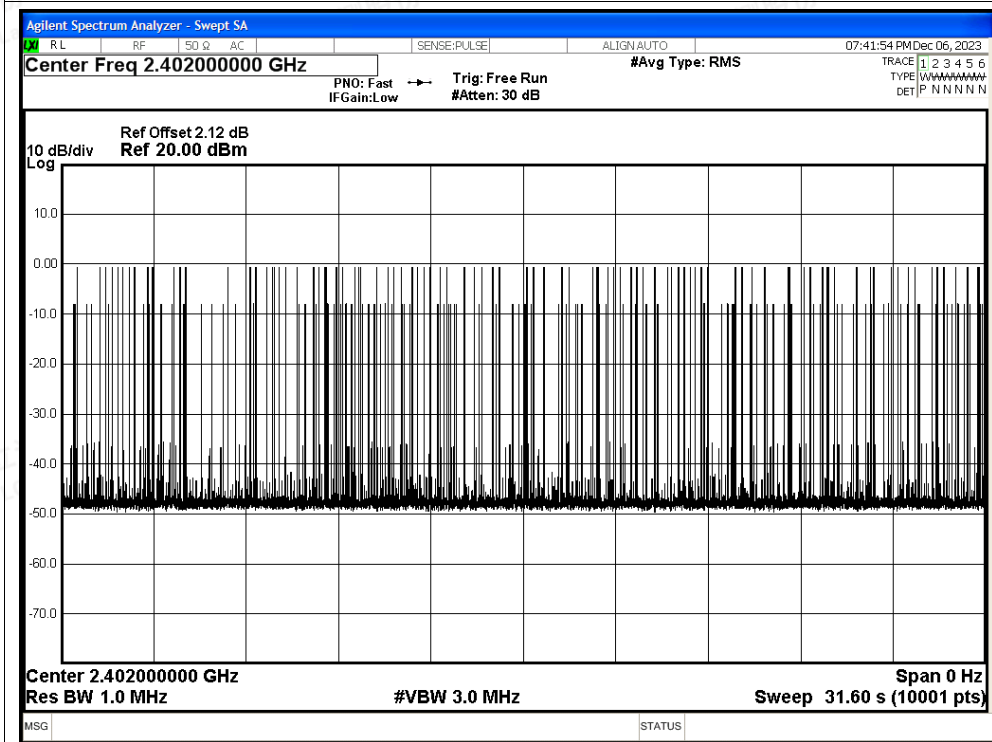




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

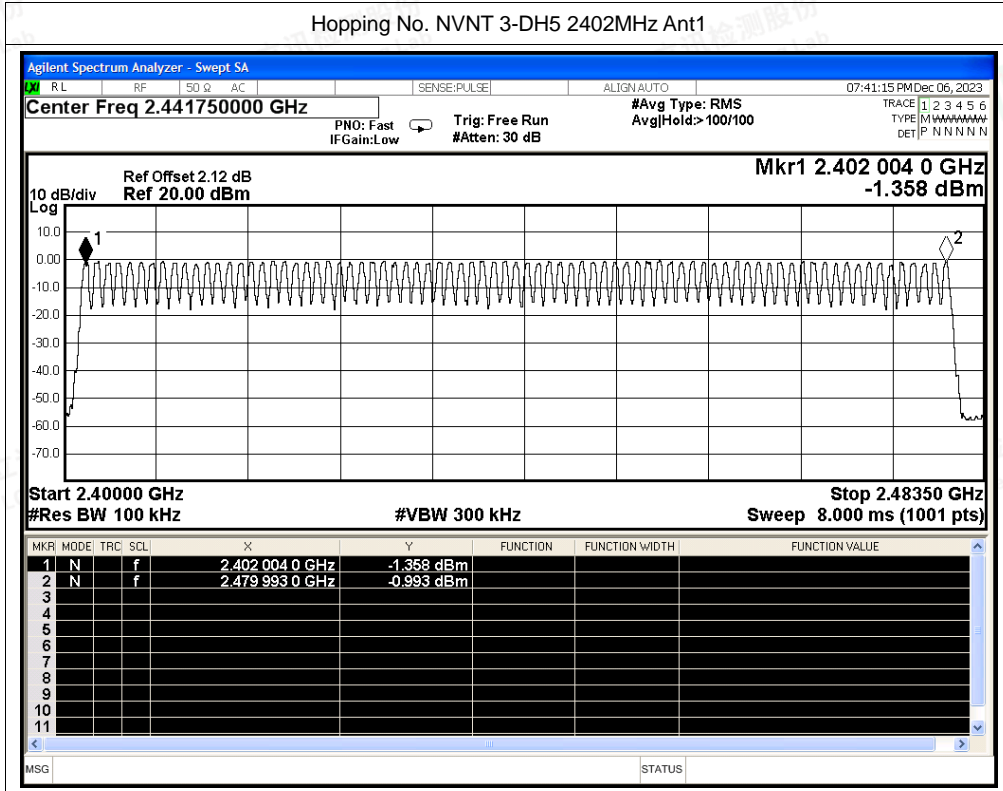




A.5 Number of Hopping Channel

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







A.6 Band Edge

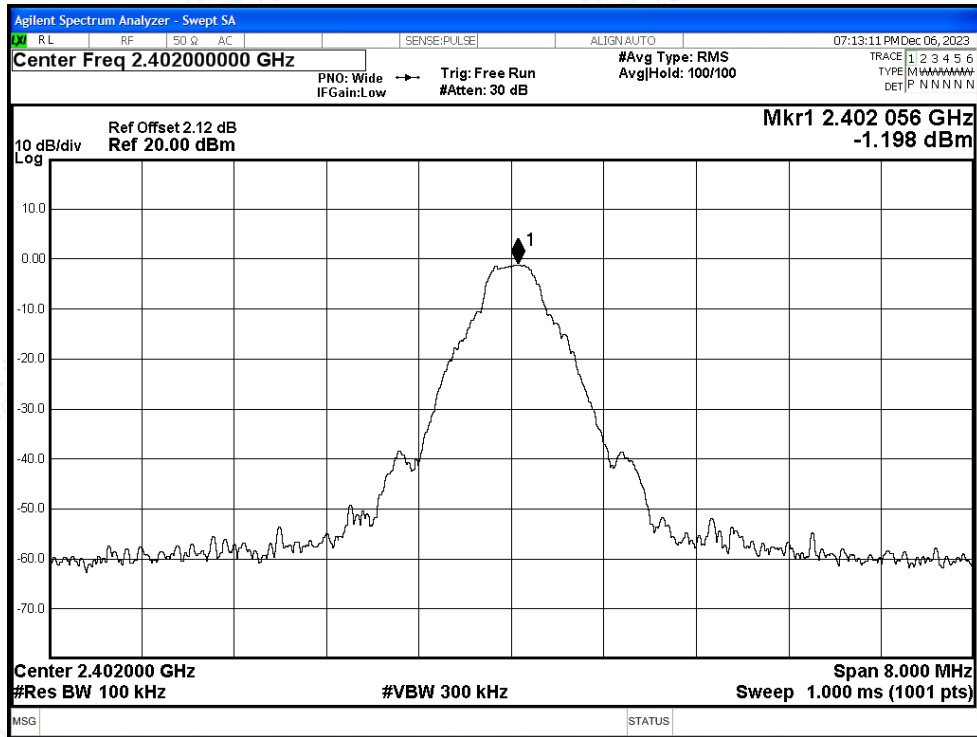
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.98	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.1	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.82	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.04	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.42	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.6	-20	Pass



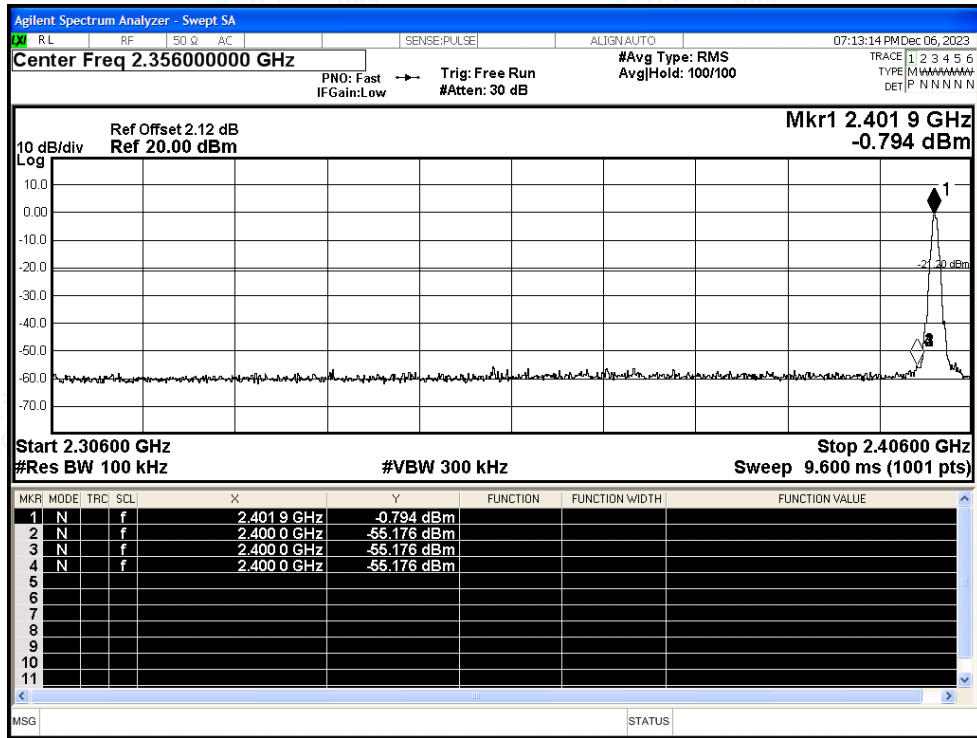


Test Graphs

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

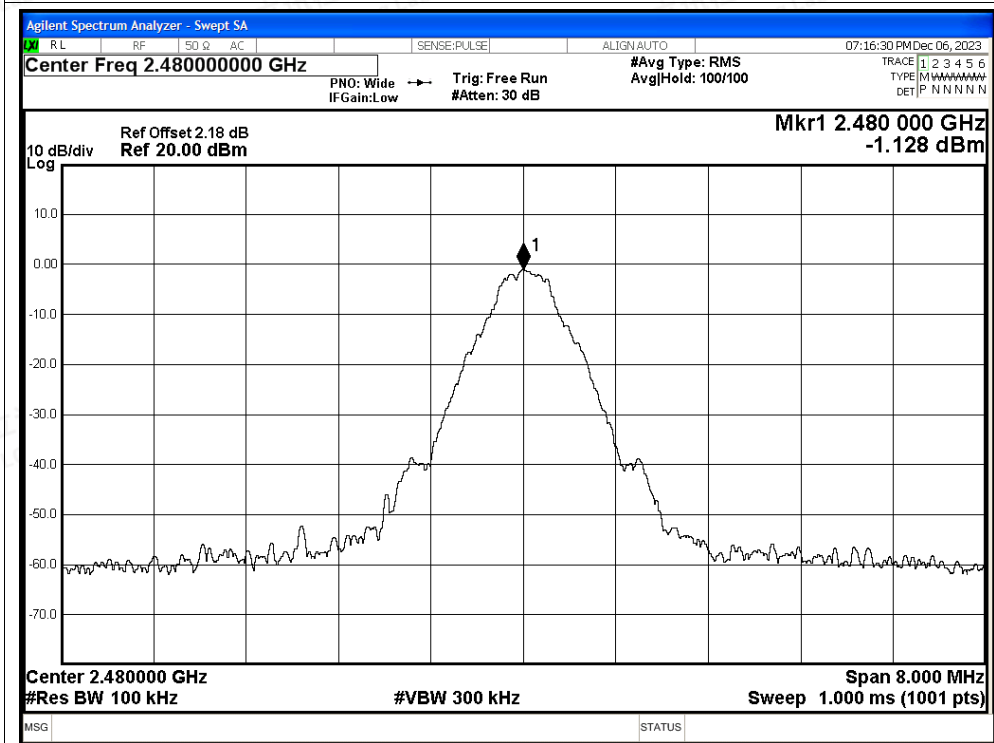


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

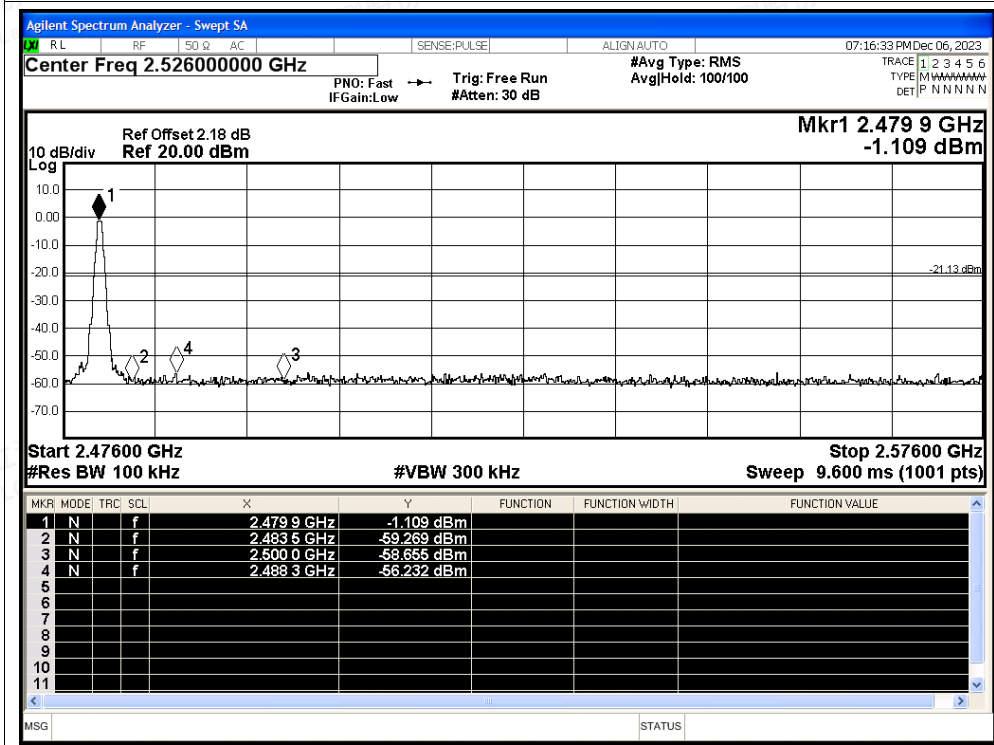


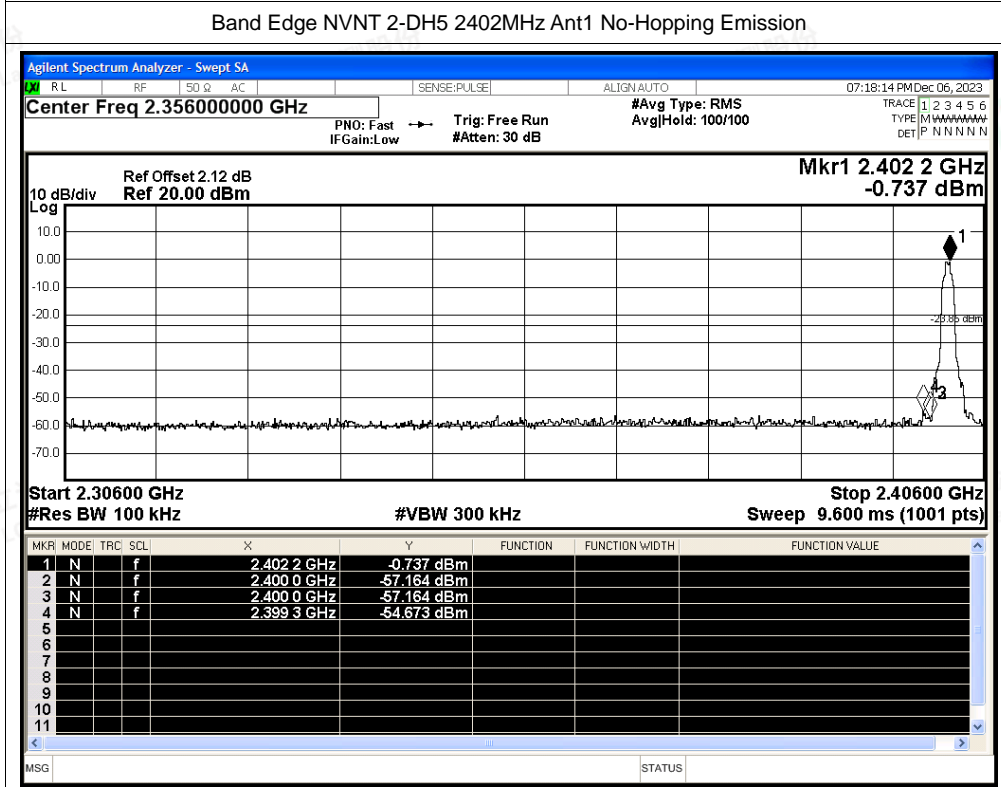
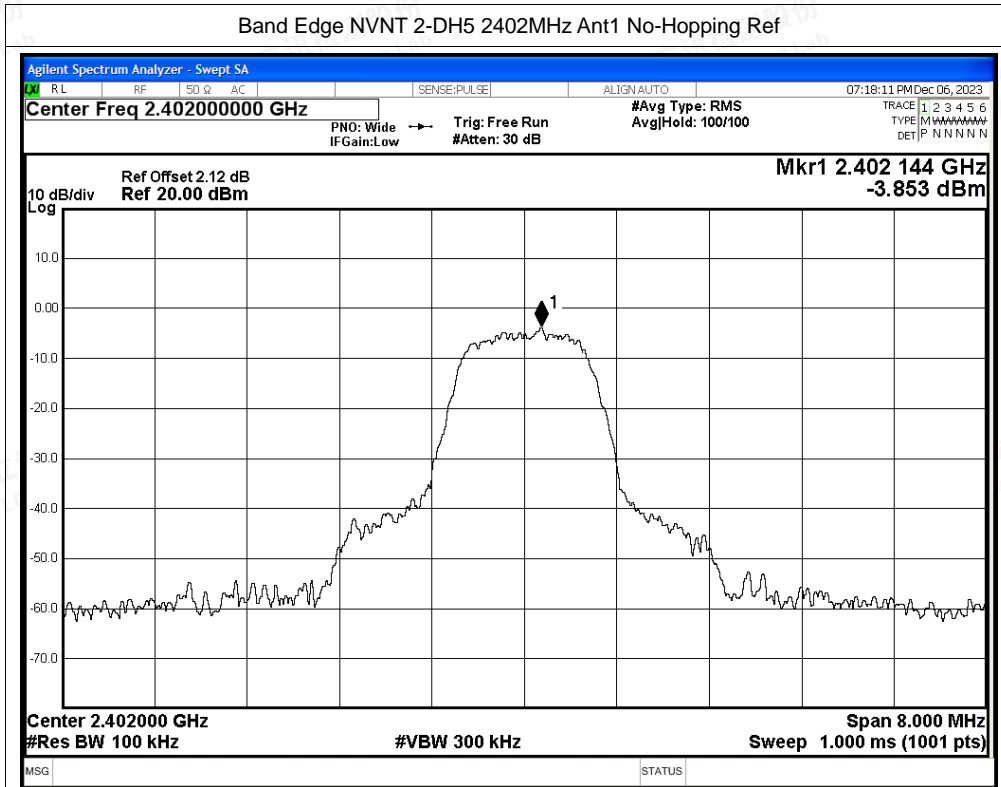


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



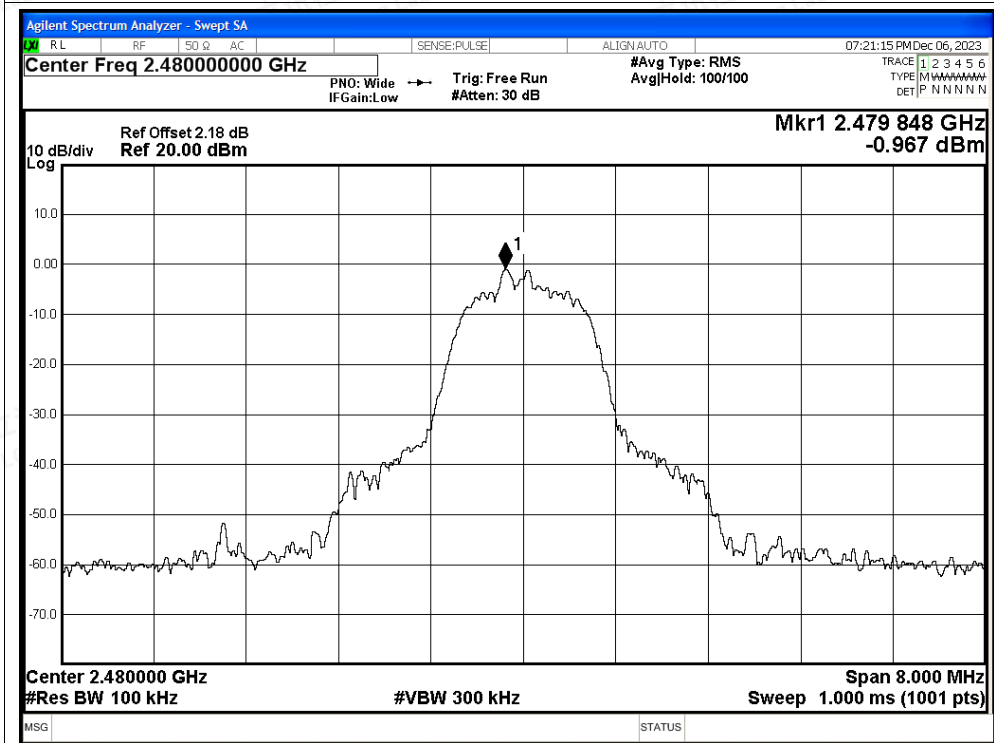
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



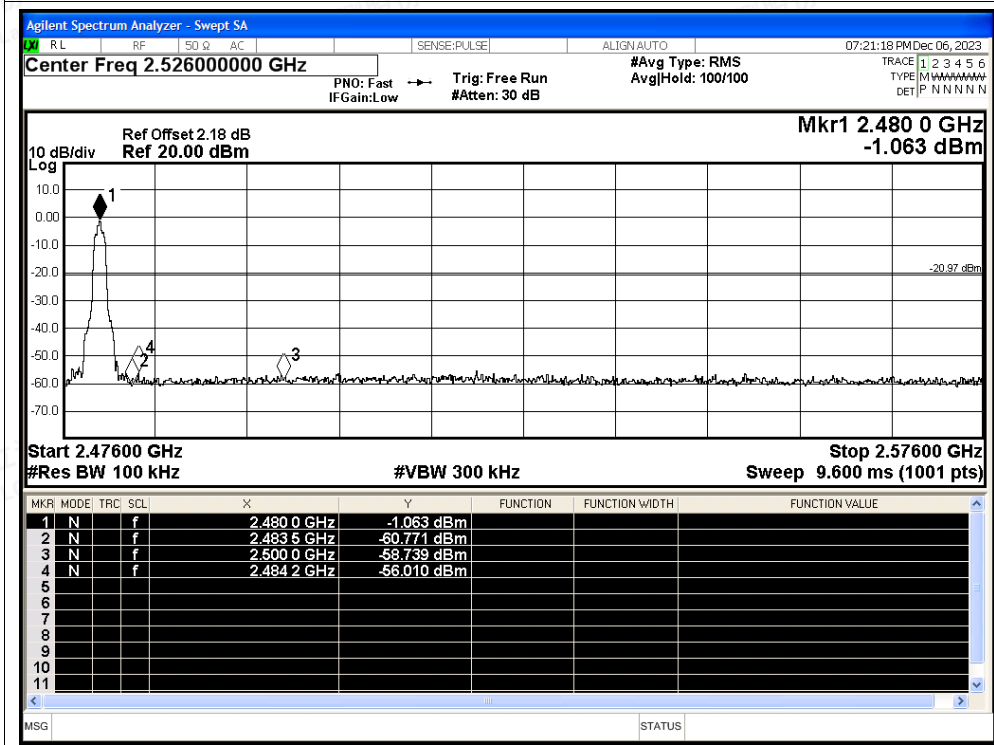




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

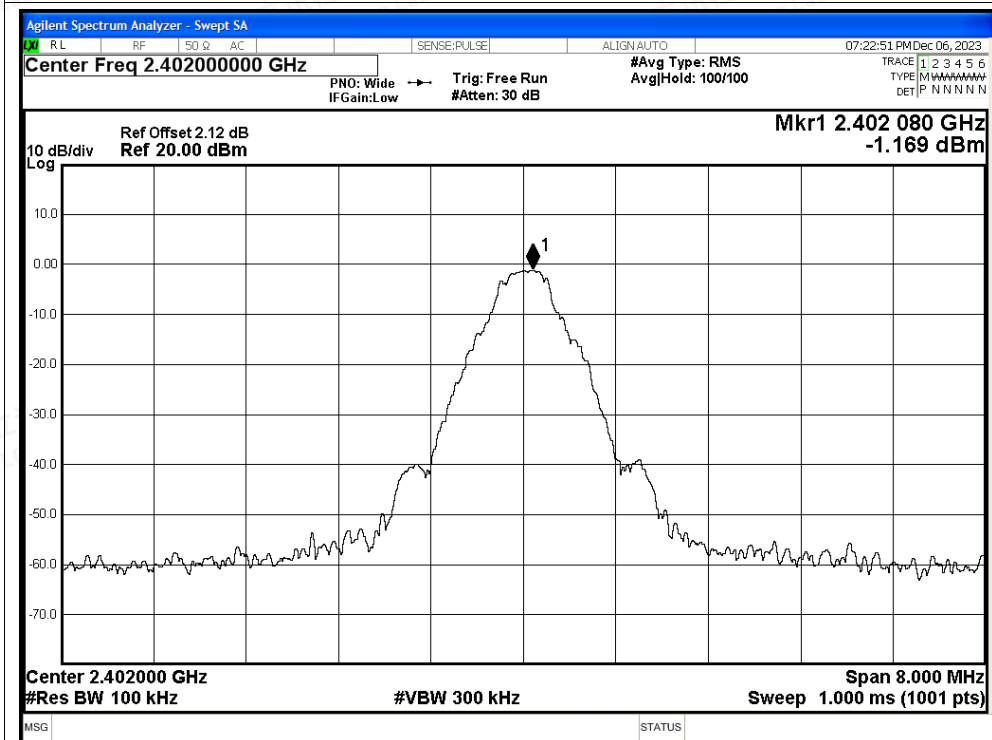


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

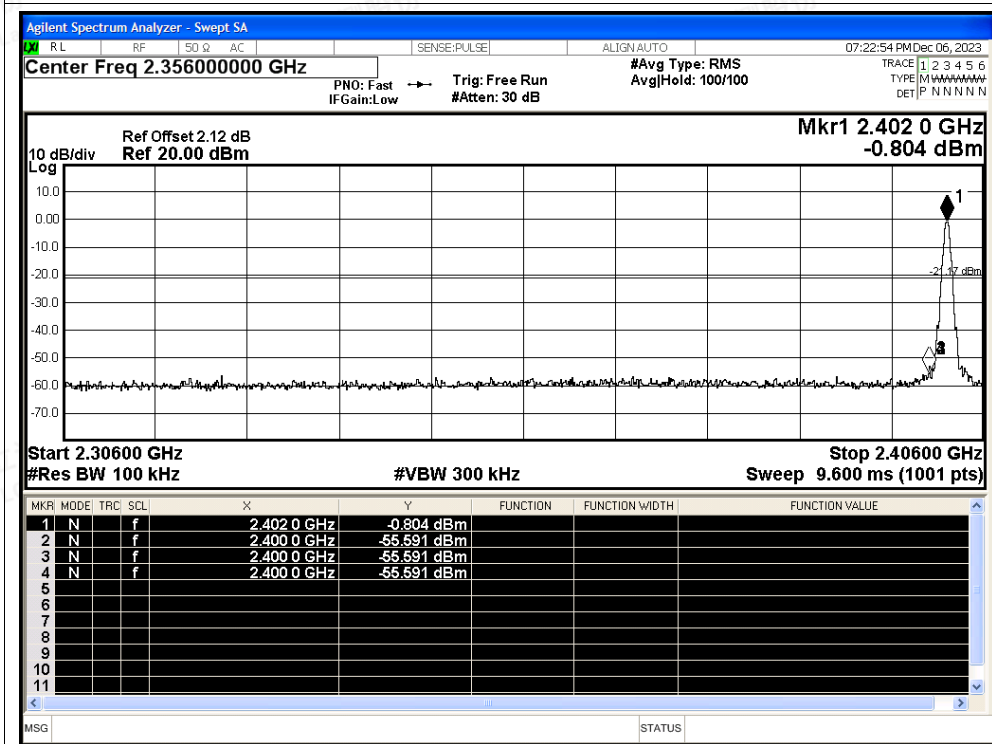




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

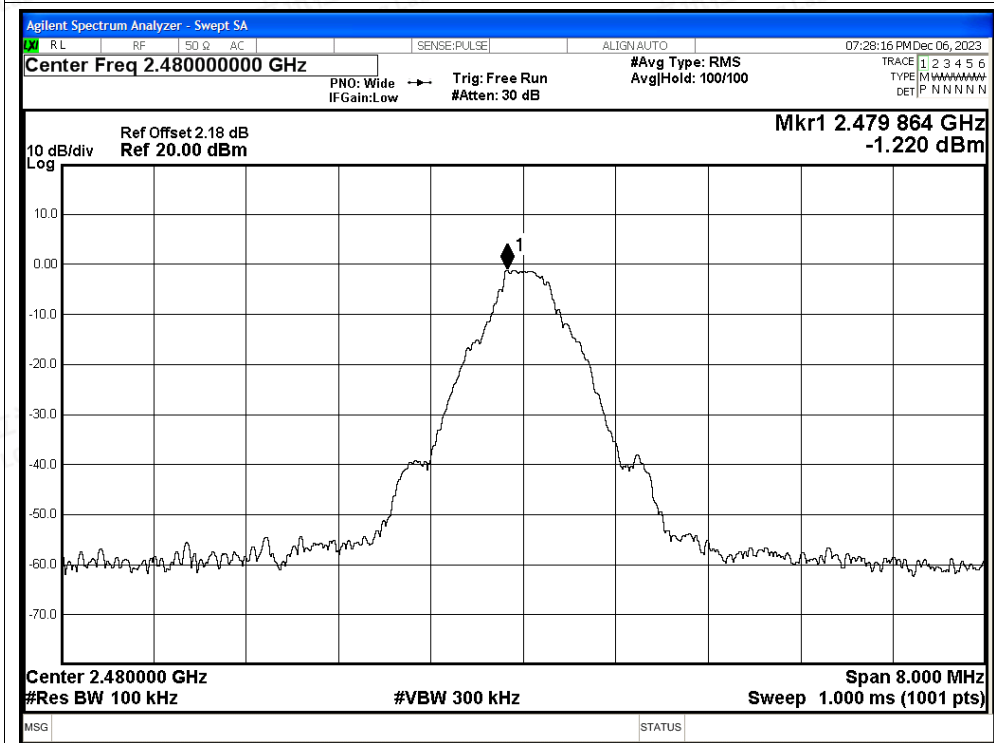


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

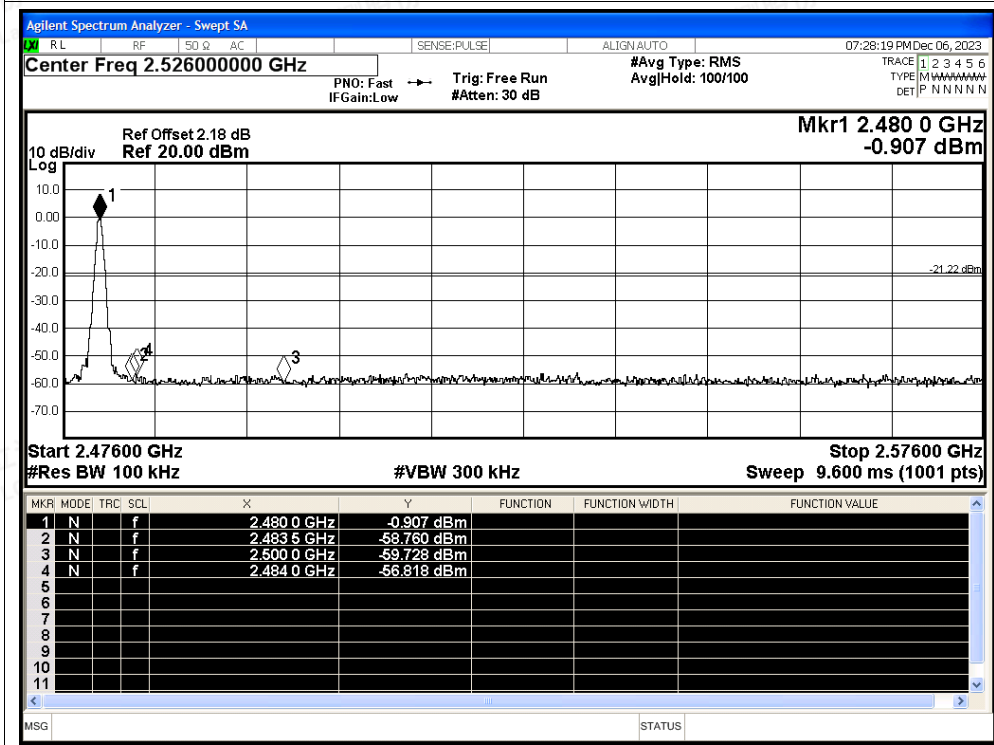




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.2	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.71	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.04	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.97	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.53	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.11	-20	Pass

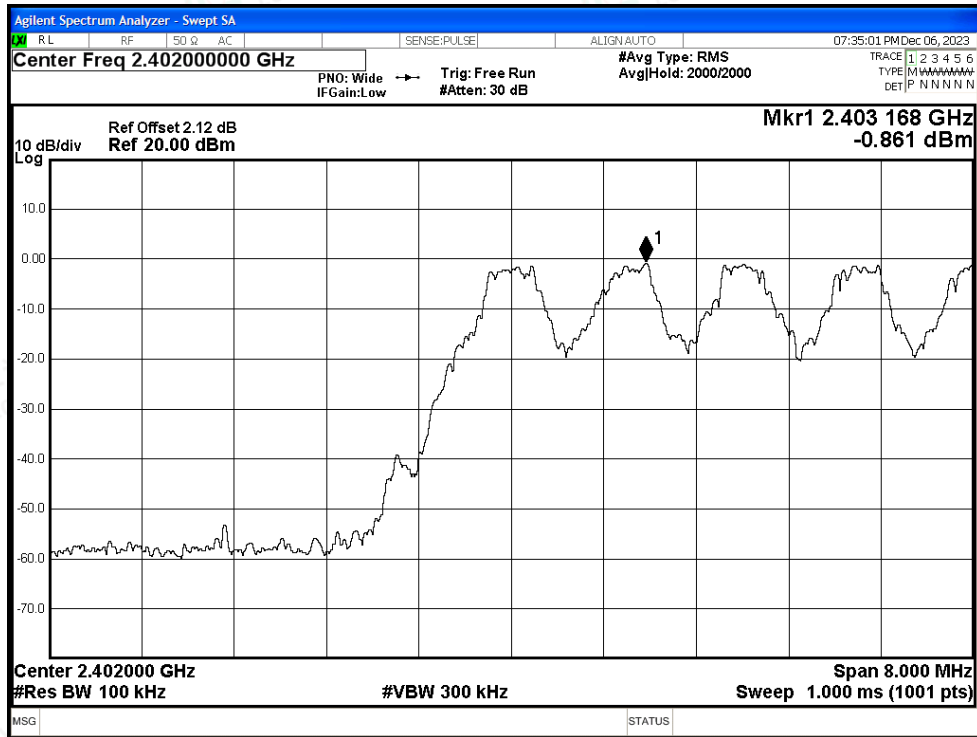


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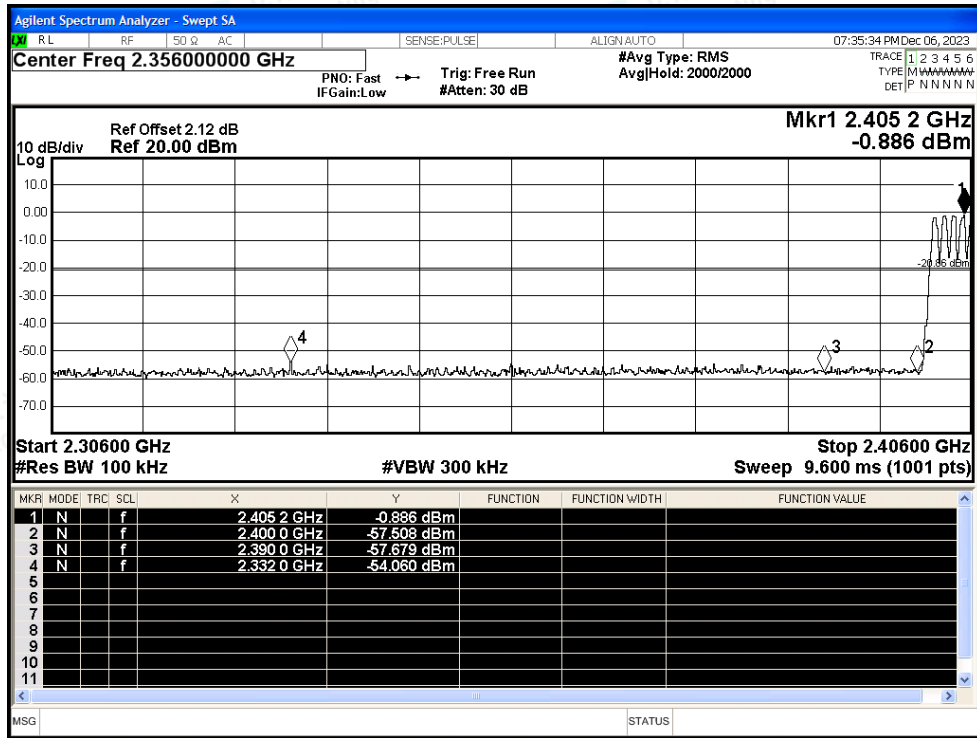


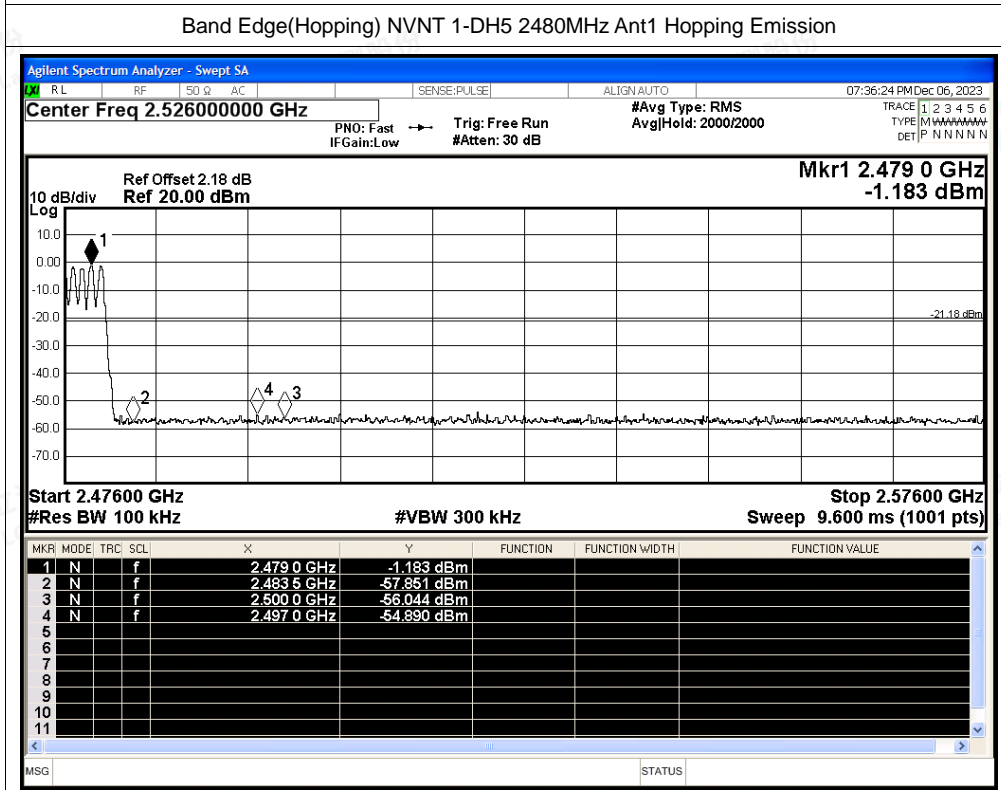
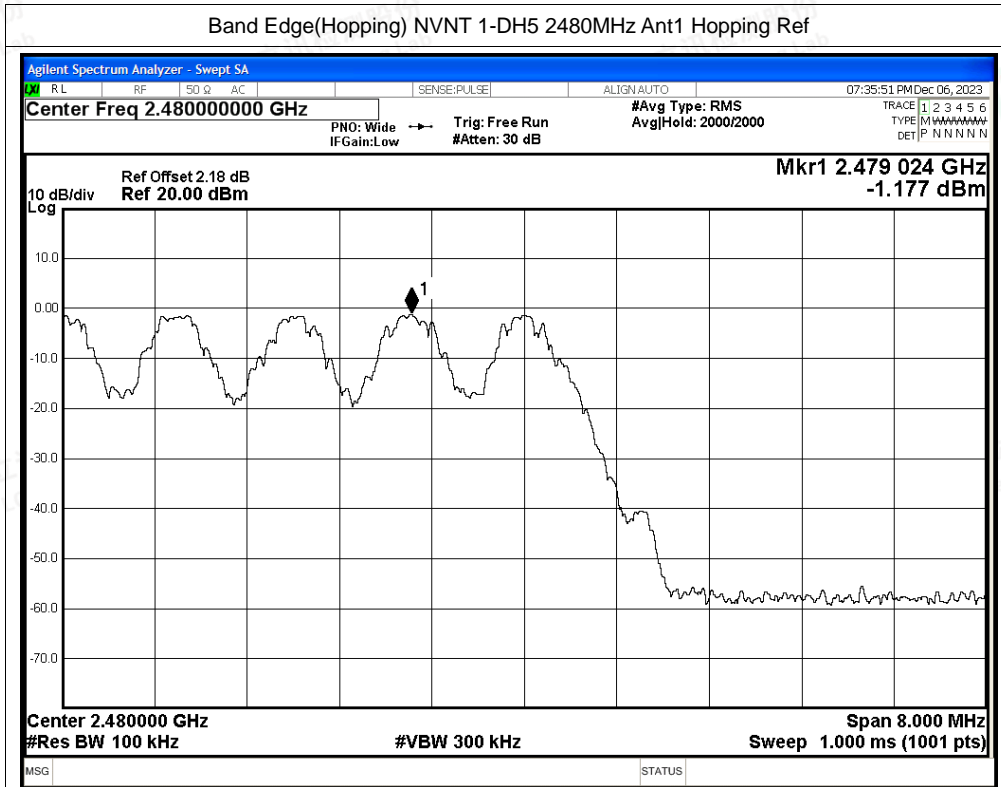
Test Graphs

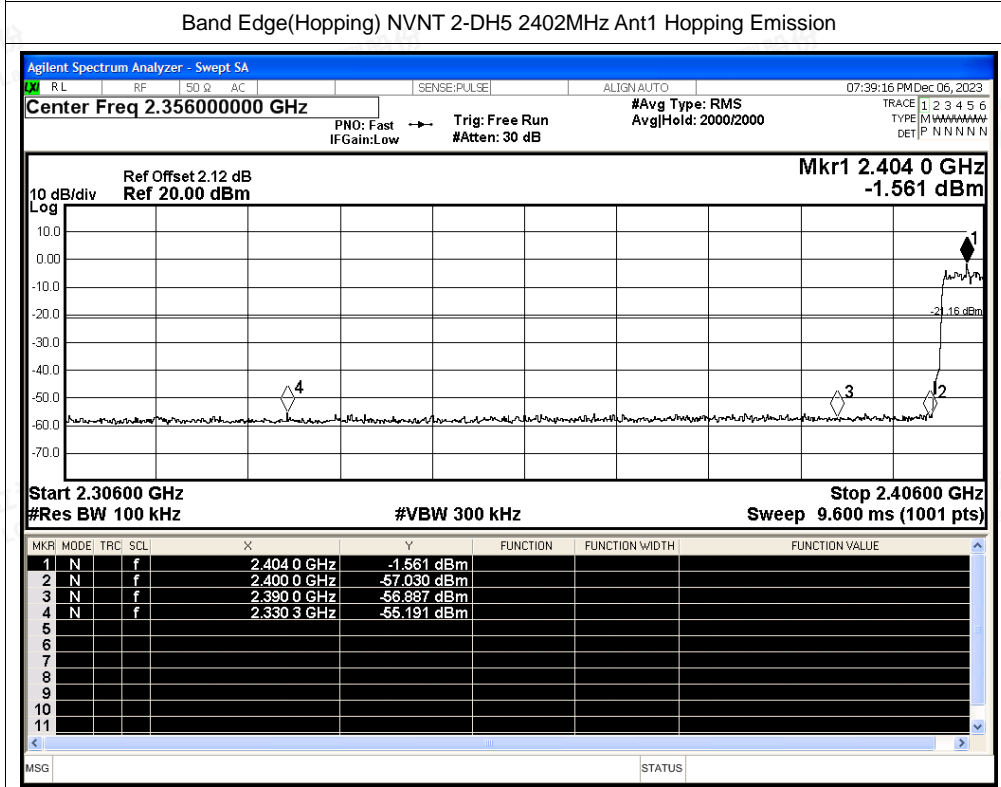
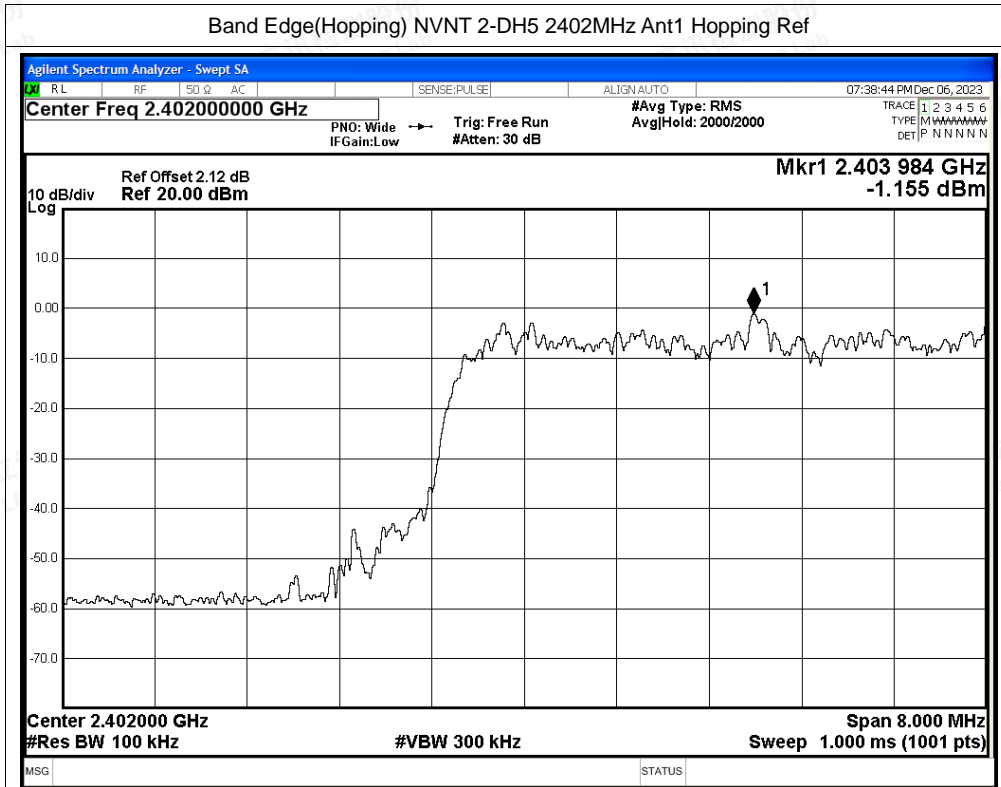
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

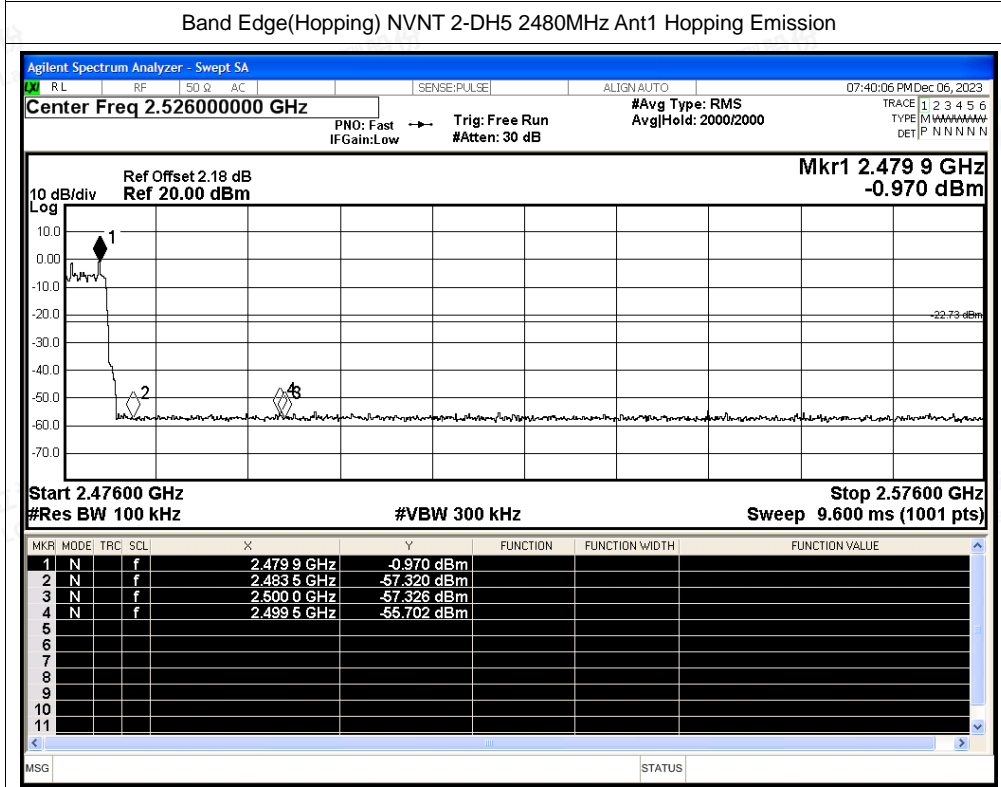
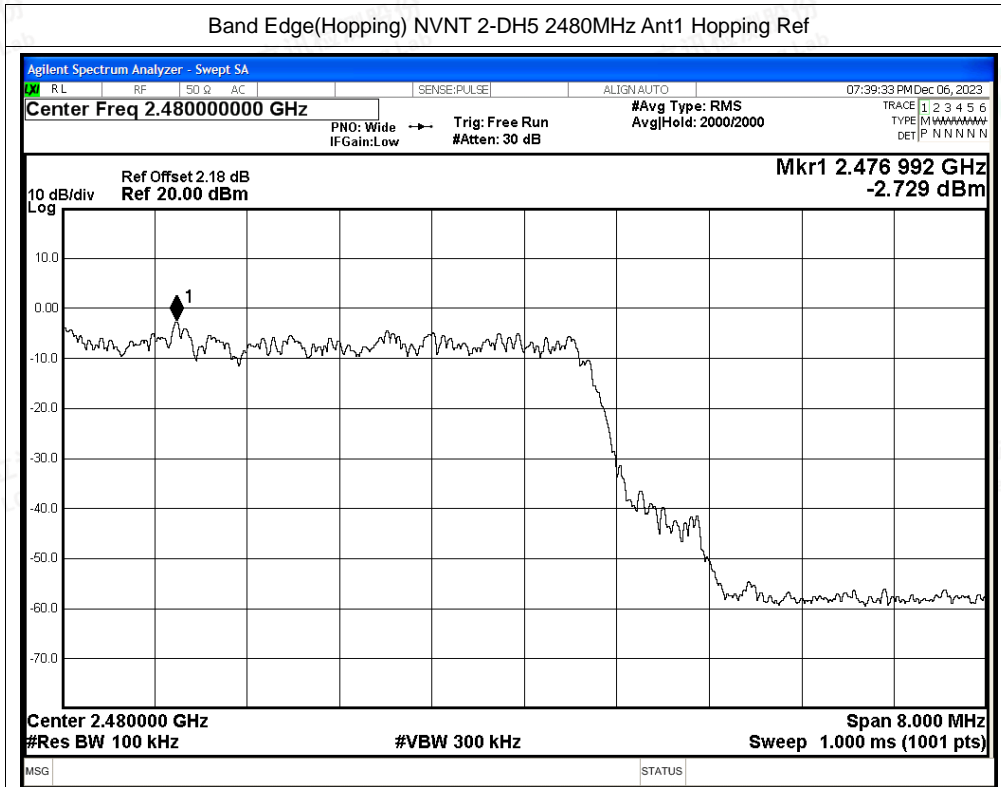


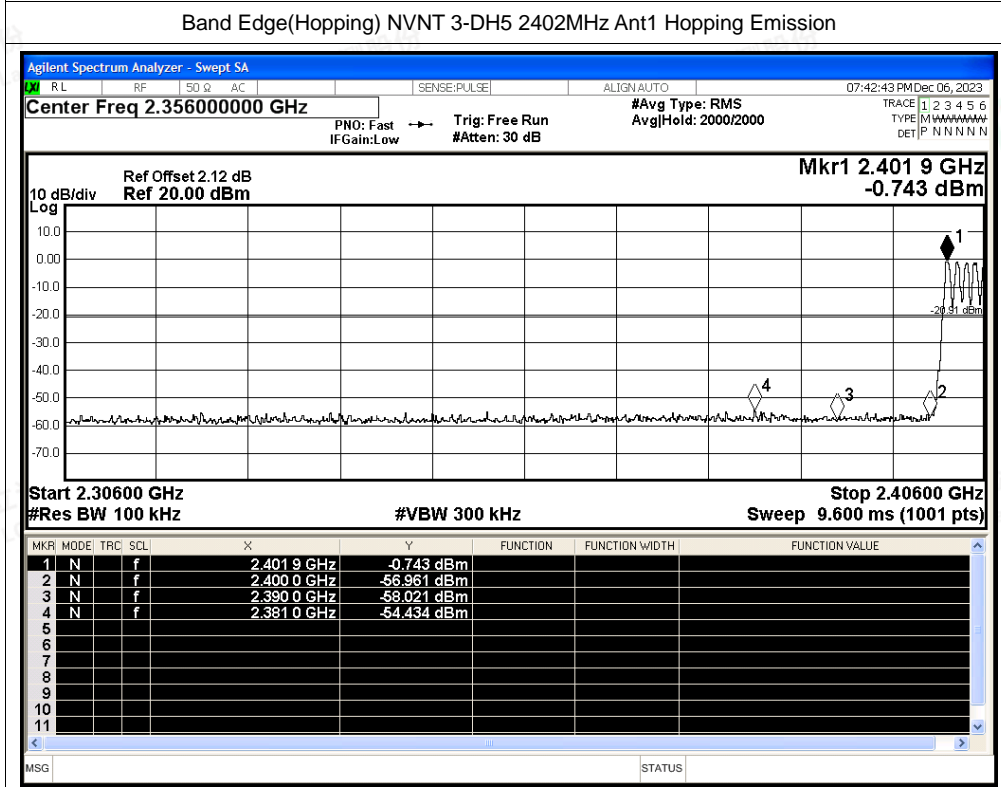
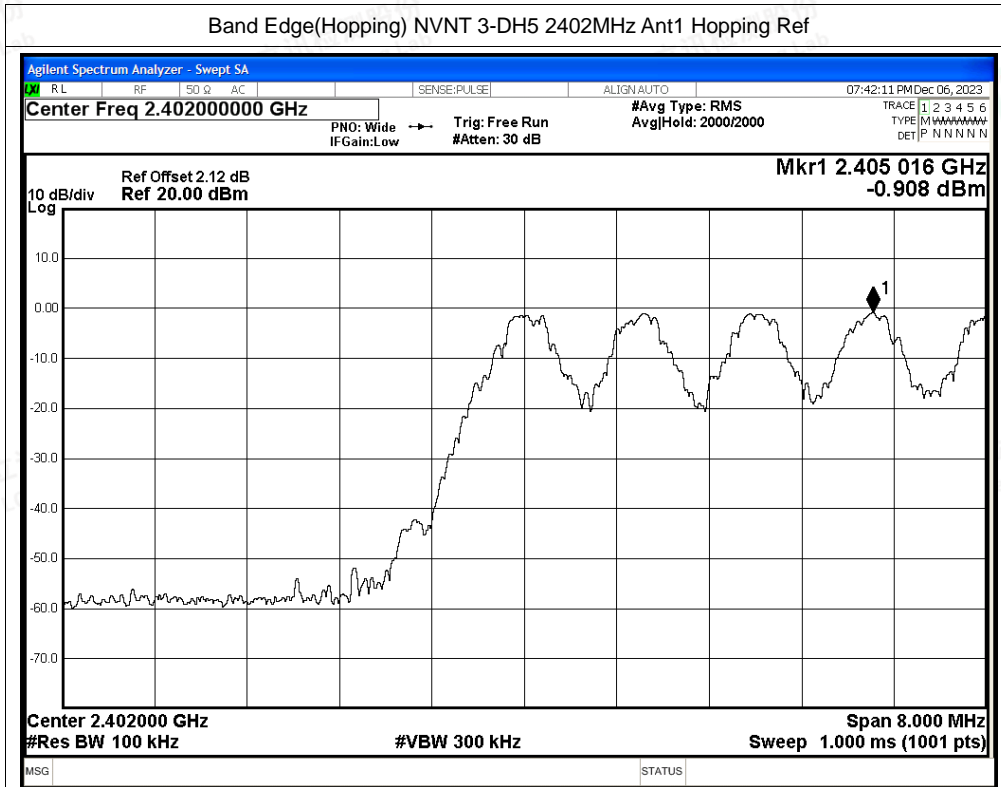
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

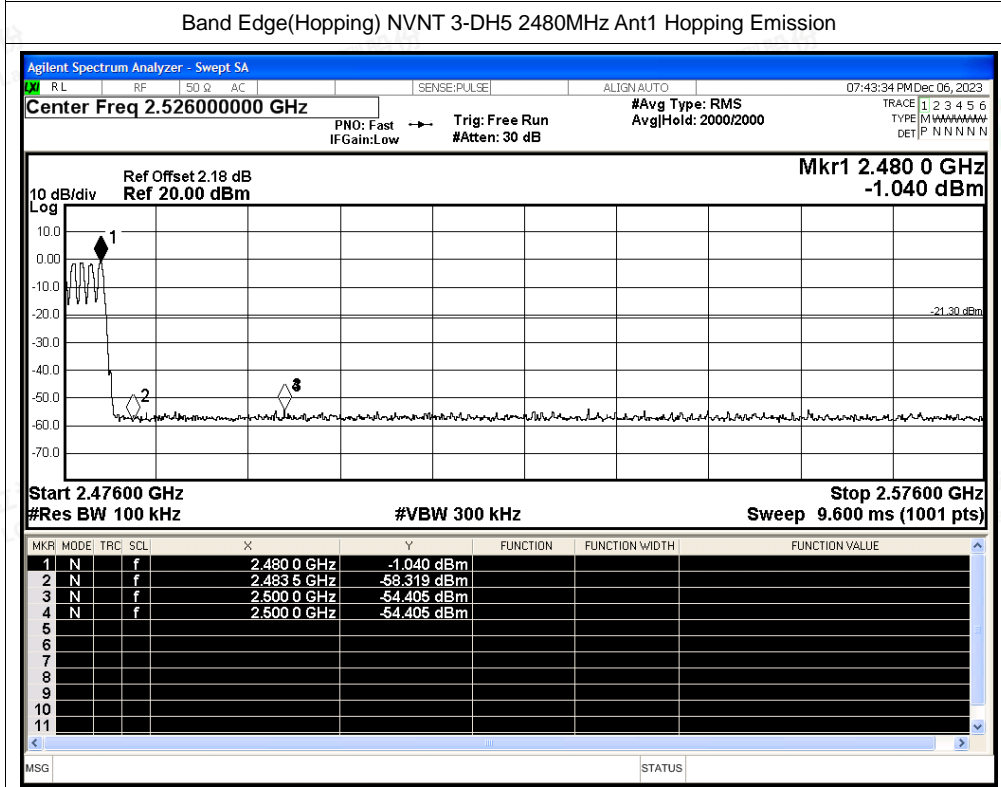
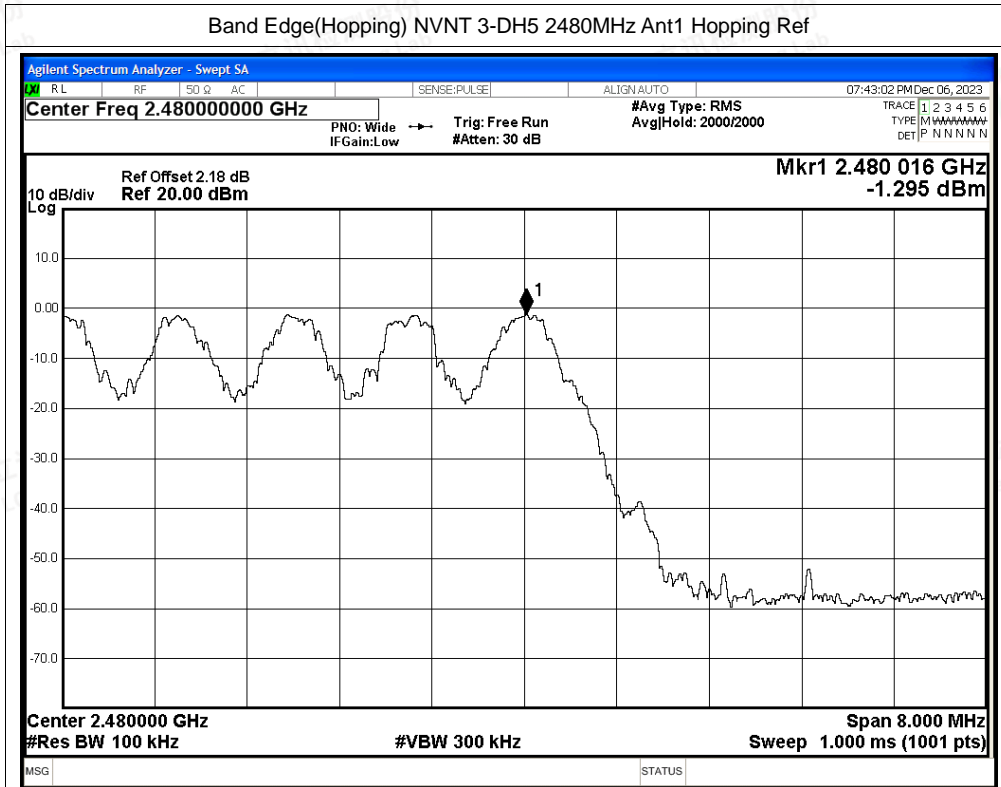














A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-46.89	-20	Pass
NVNT	1-DH5	2441	Ant1	-46.09	-20	Pass
NVNT	1-DH5	2480	Ant1	-44.39	-20	Pass
NVNT	2-DH5	2402	Ant1	-49.24	-20	Pass
NVNT	2-DH5	2441	Ant1	-47.41	-20	Pass
NVNT	2-DH5	2480	Ant1	-46.74	-20	Pass
NVNT	3-DH5	2402	Ant1	-47.31	-20	Pass
NVNT	3-DH5	2441	Ant1	-48.07	-20	Pass
NVNT	3-DH5	2480	Ant1	-45.54	-20	Pass

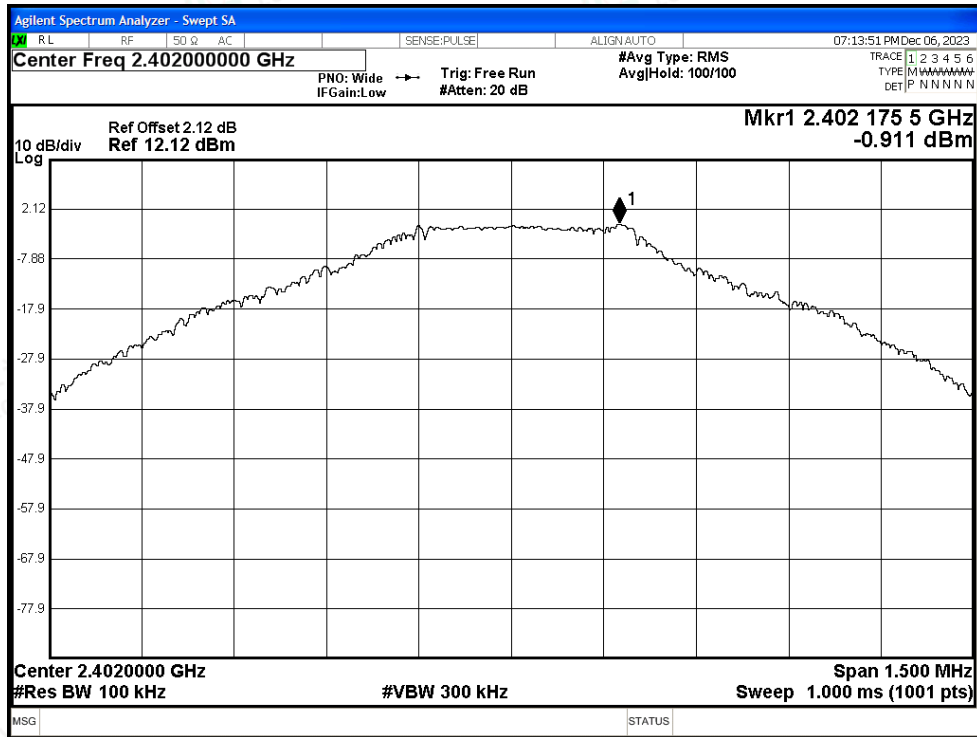


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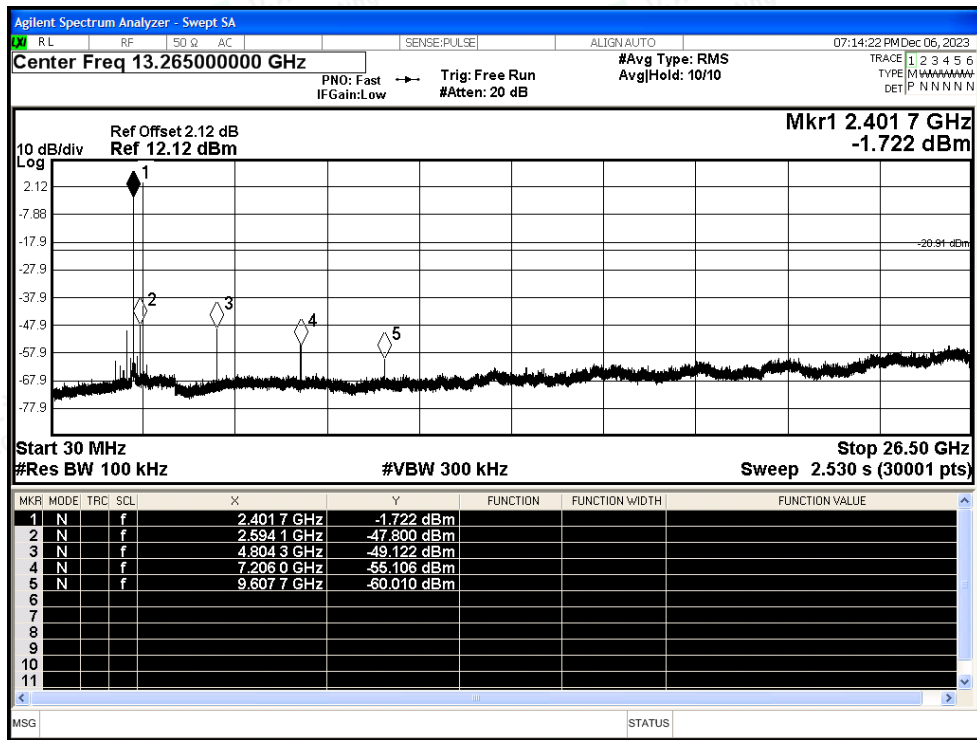


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

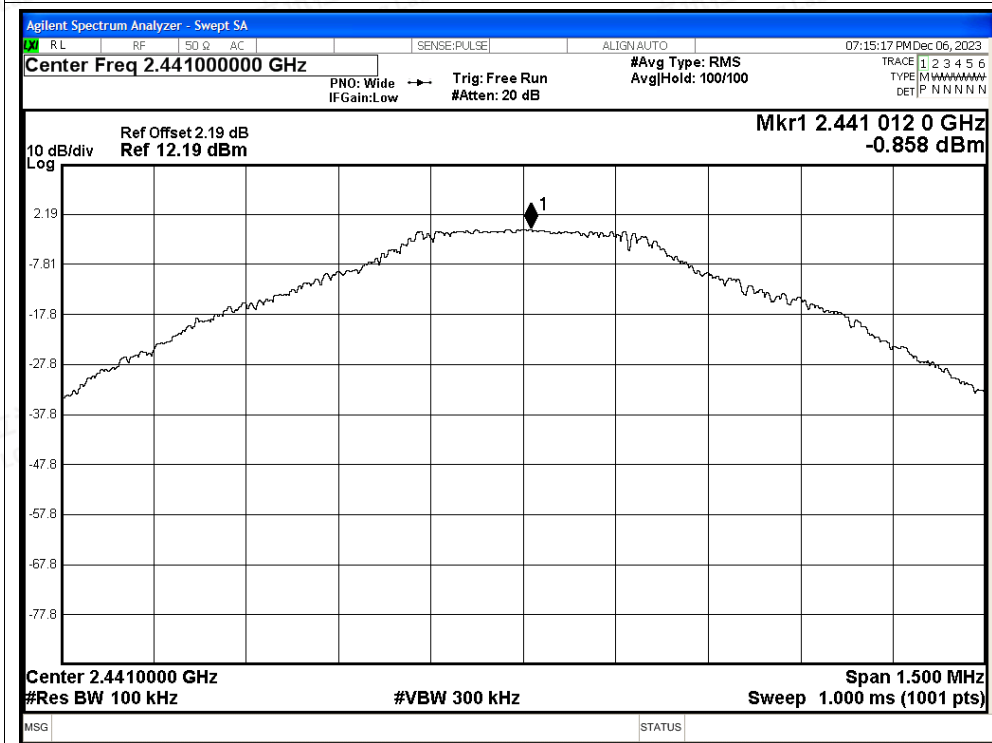


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

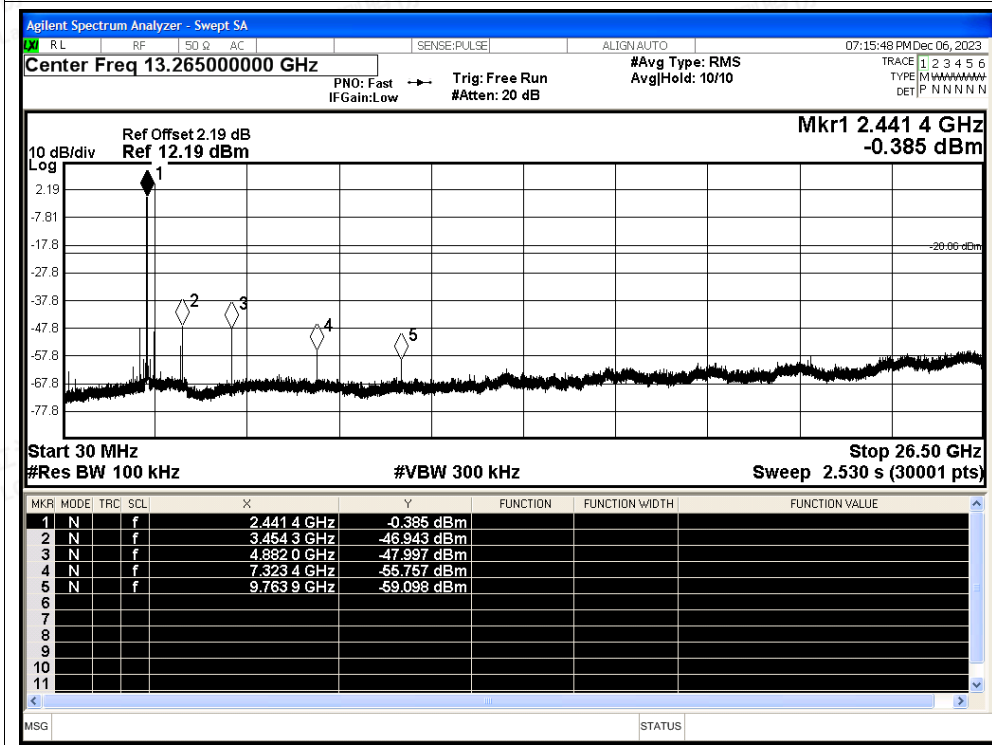




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

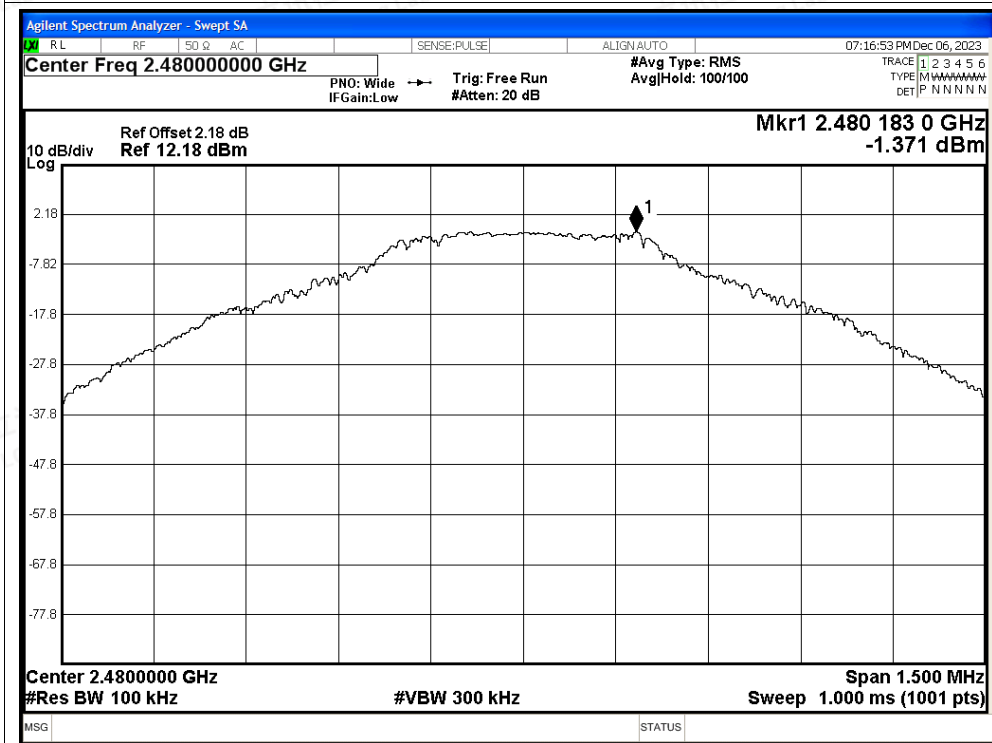


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

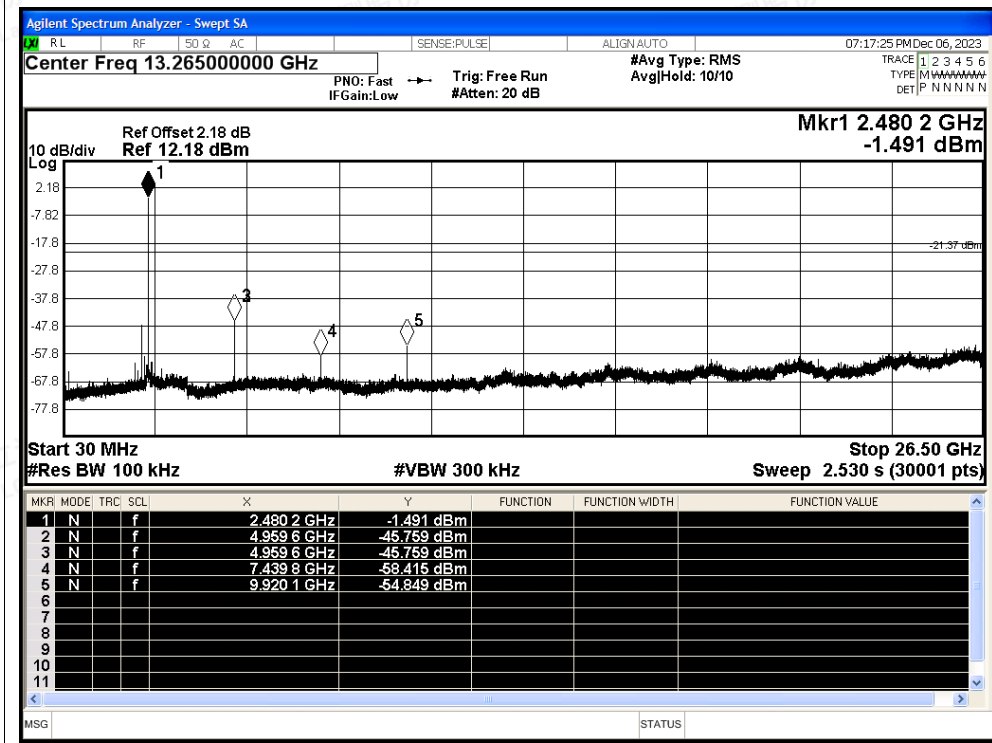




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

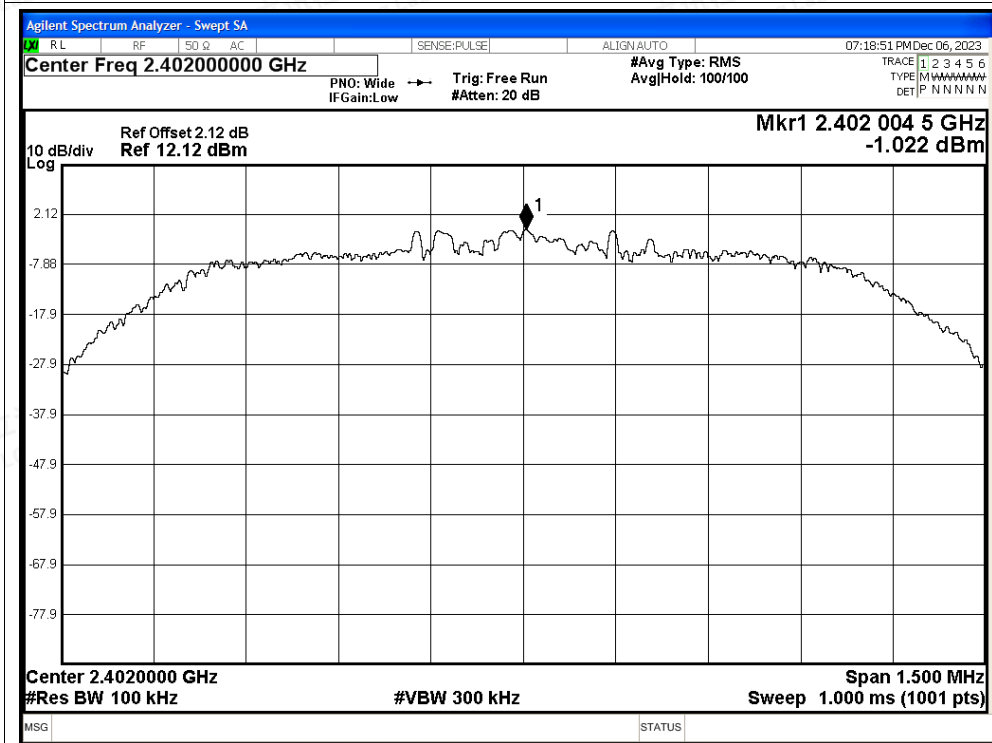


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

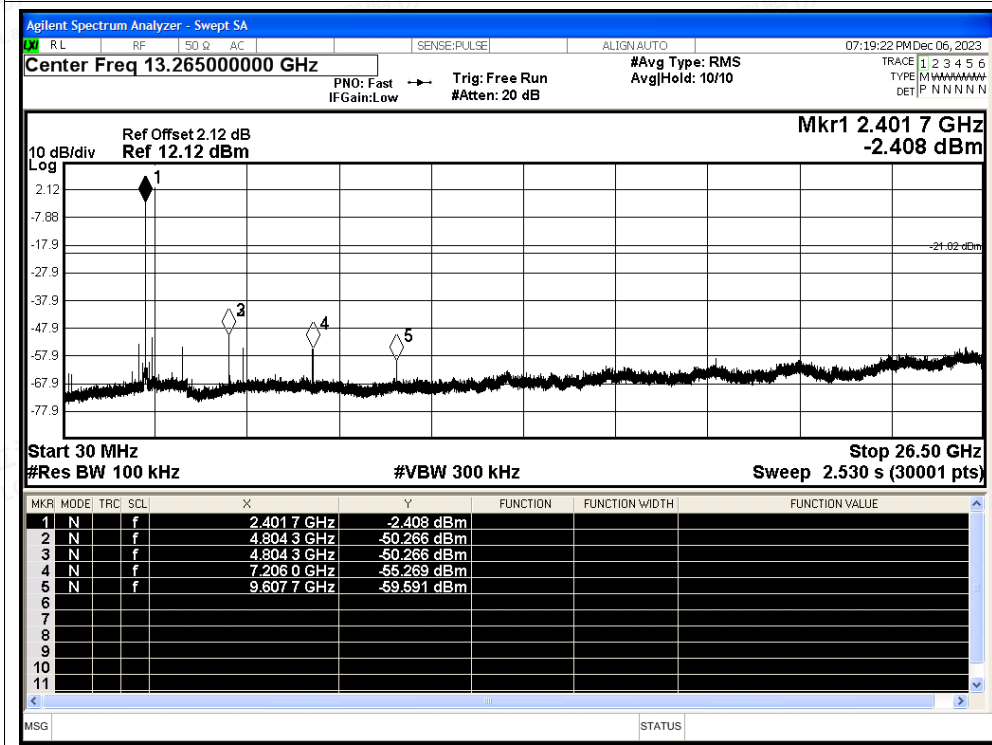




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

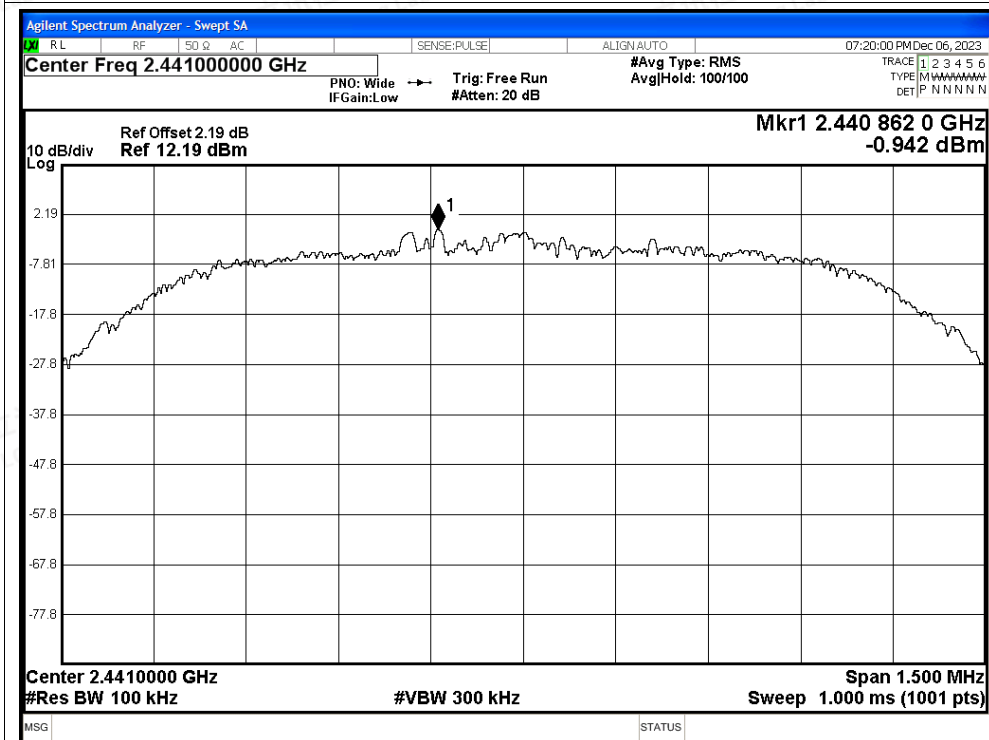


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

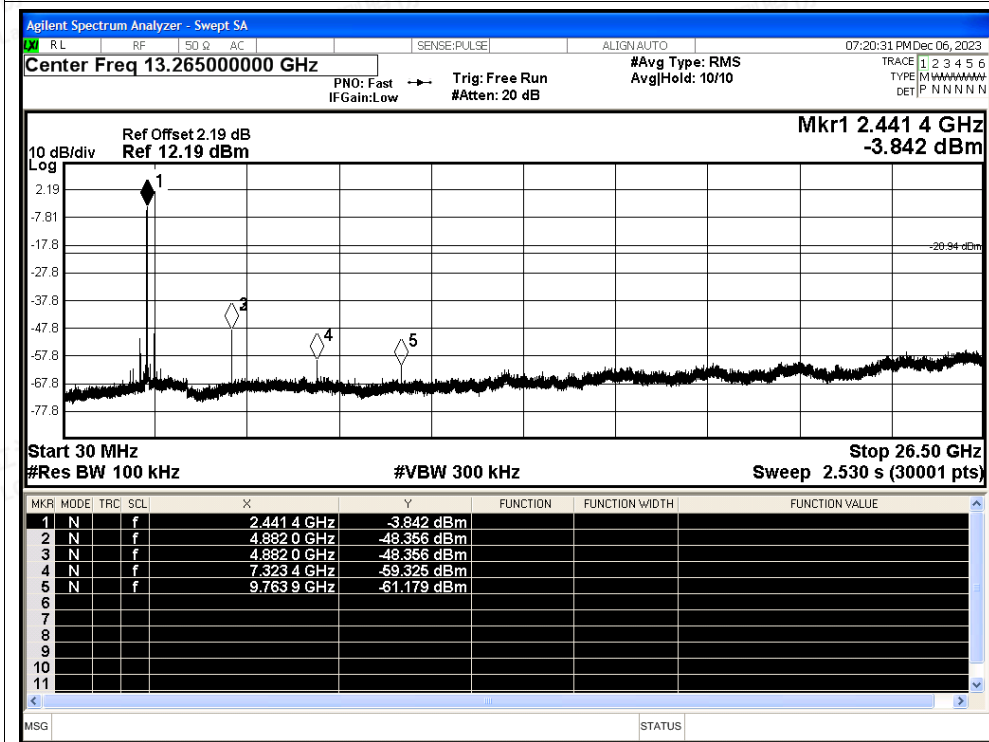




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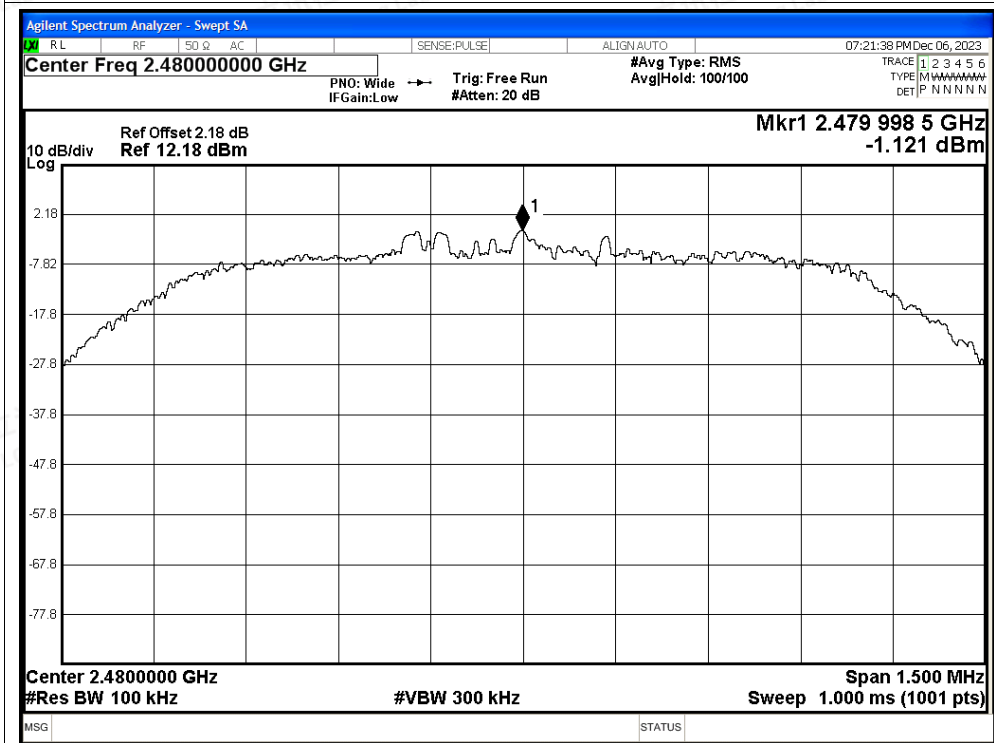


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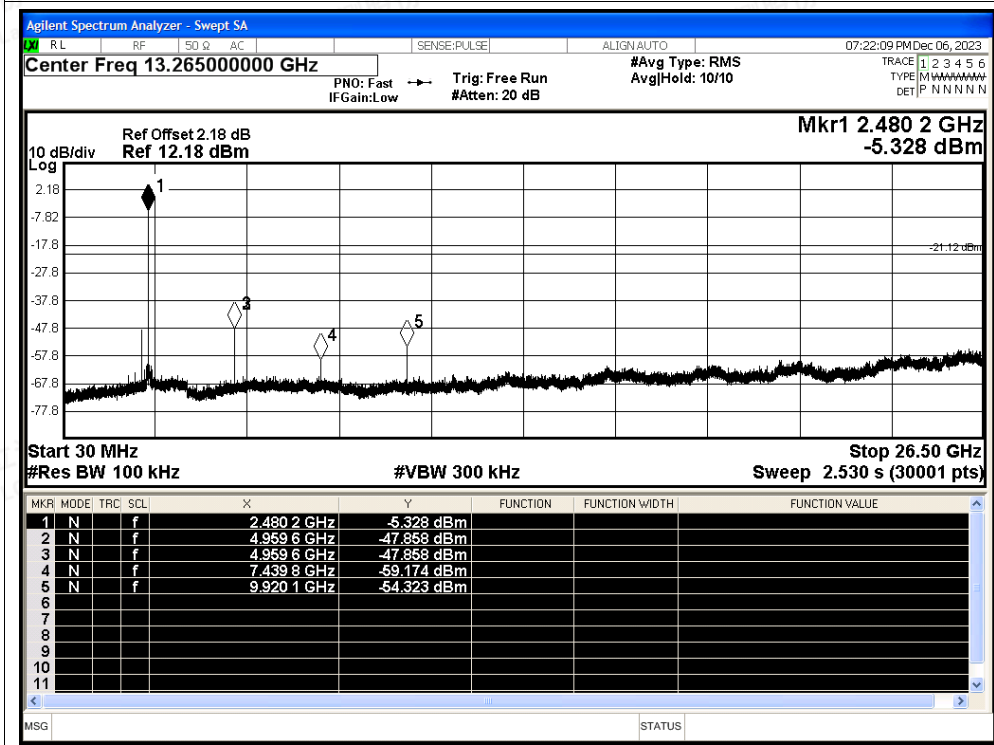




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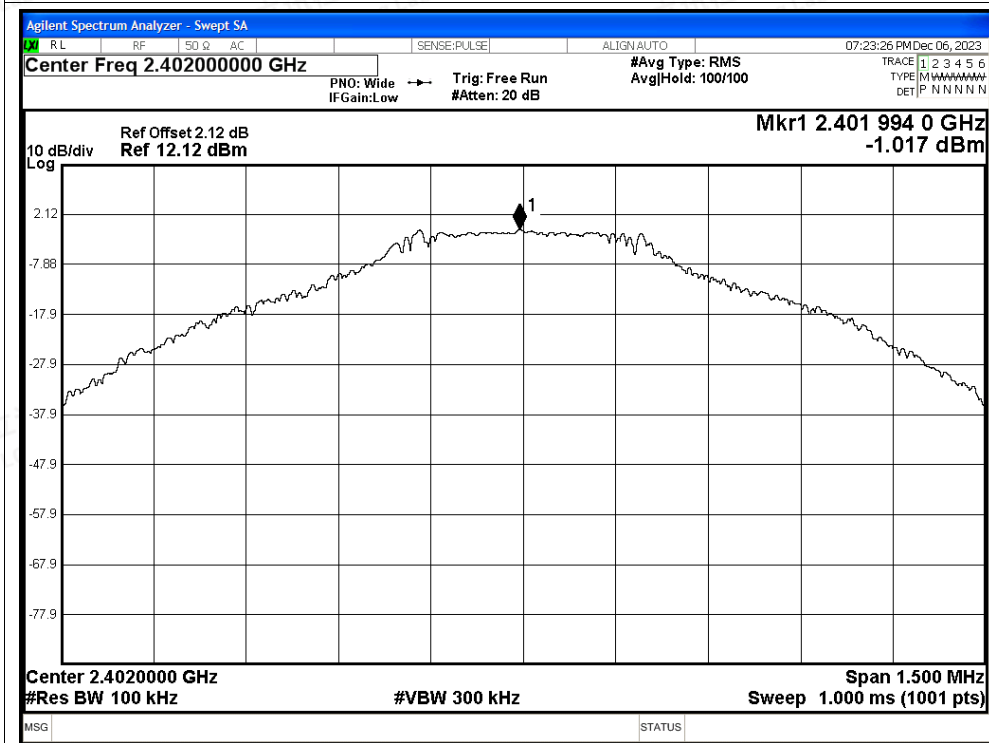


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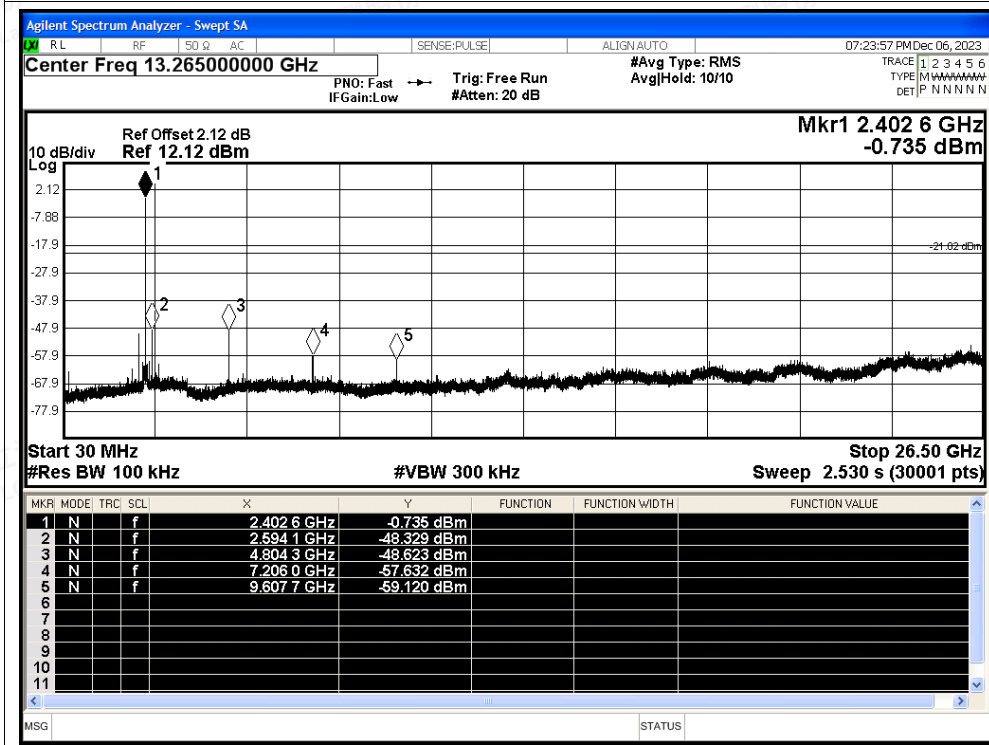




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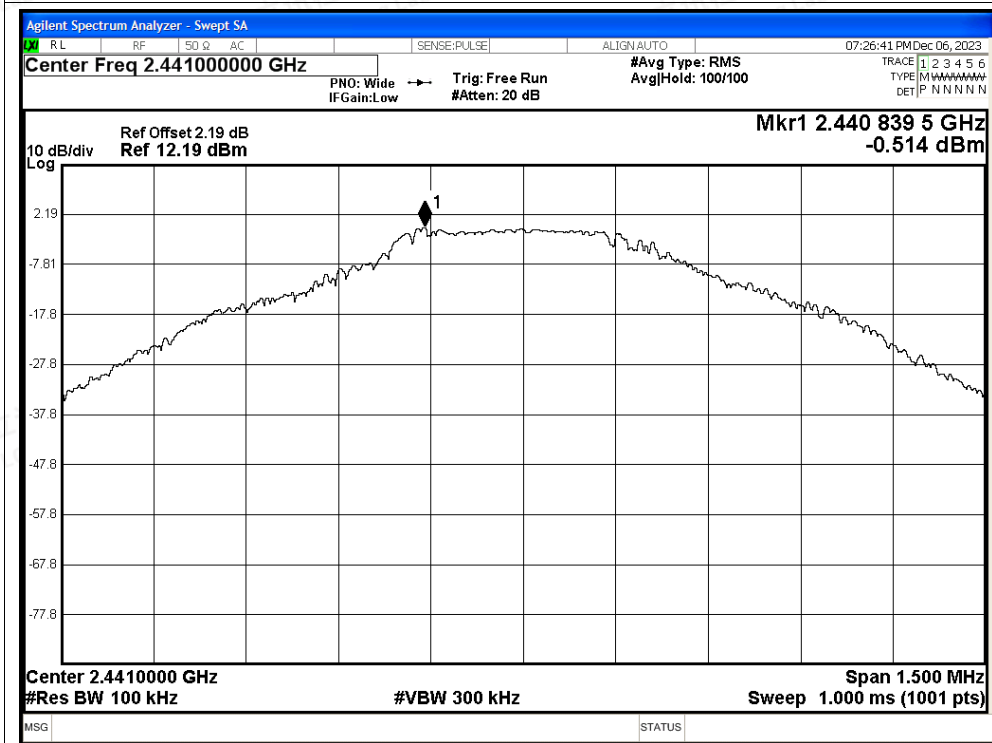


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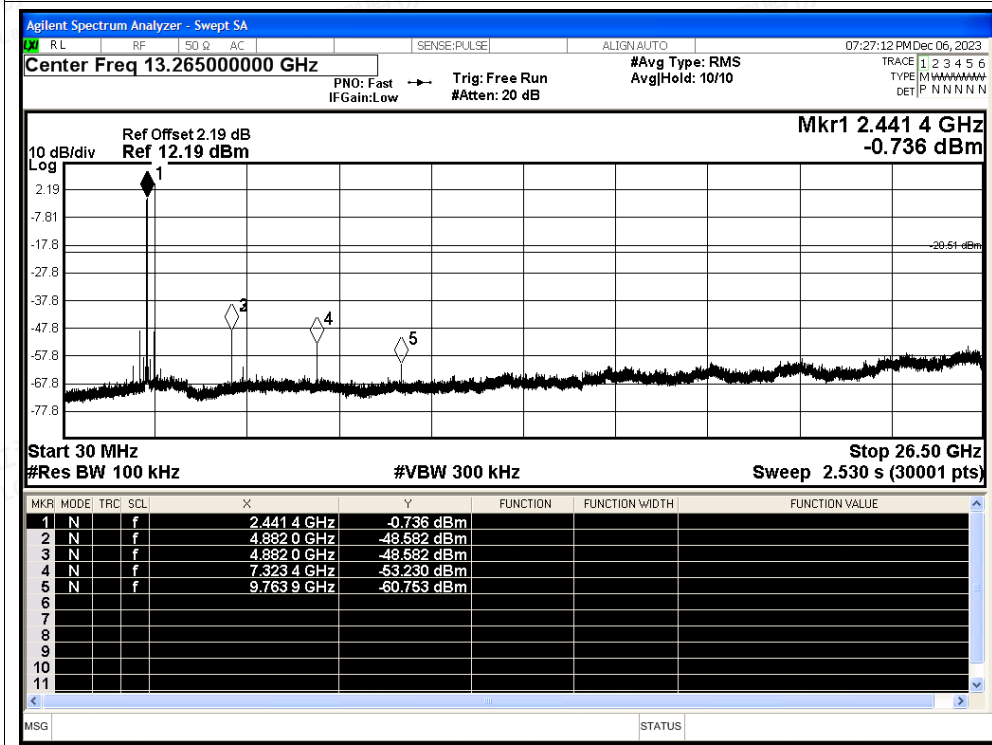




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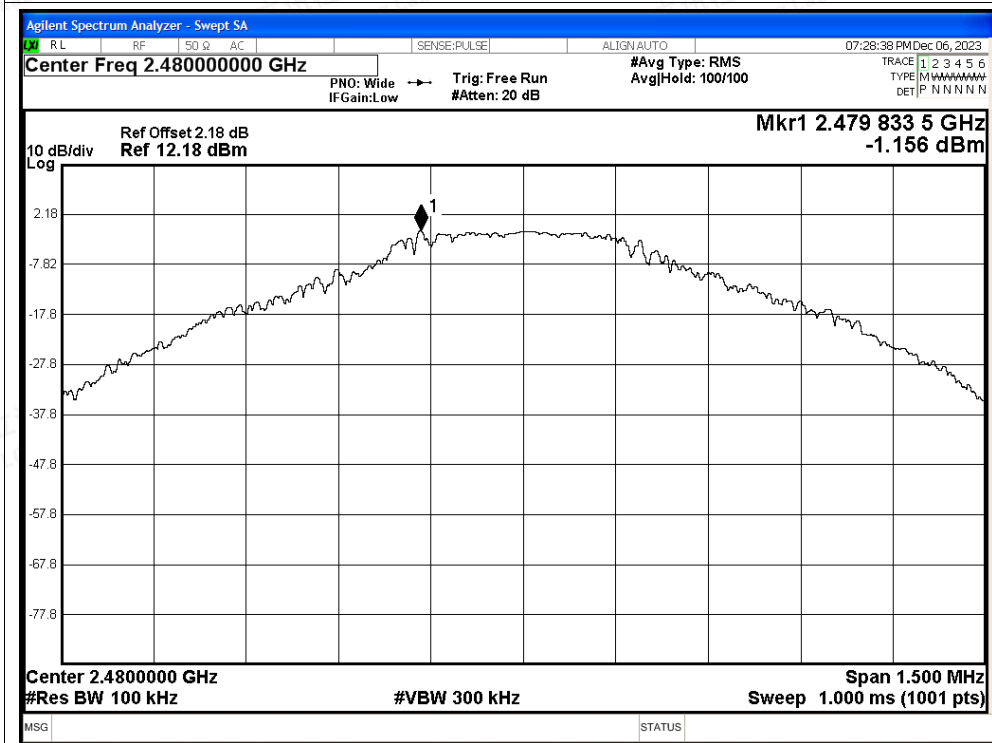


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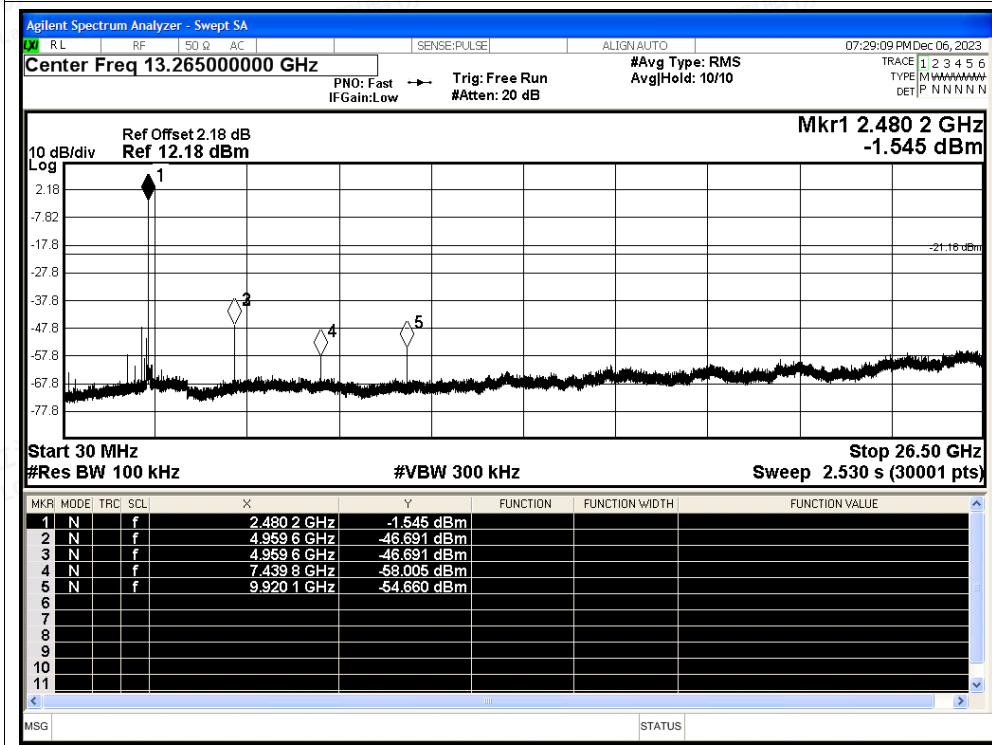




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





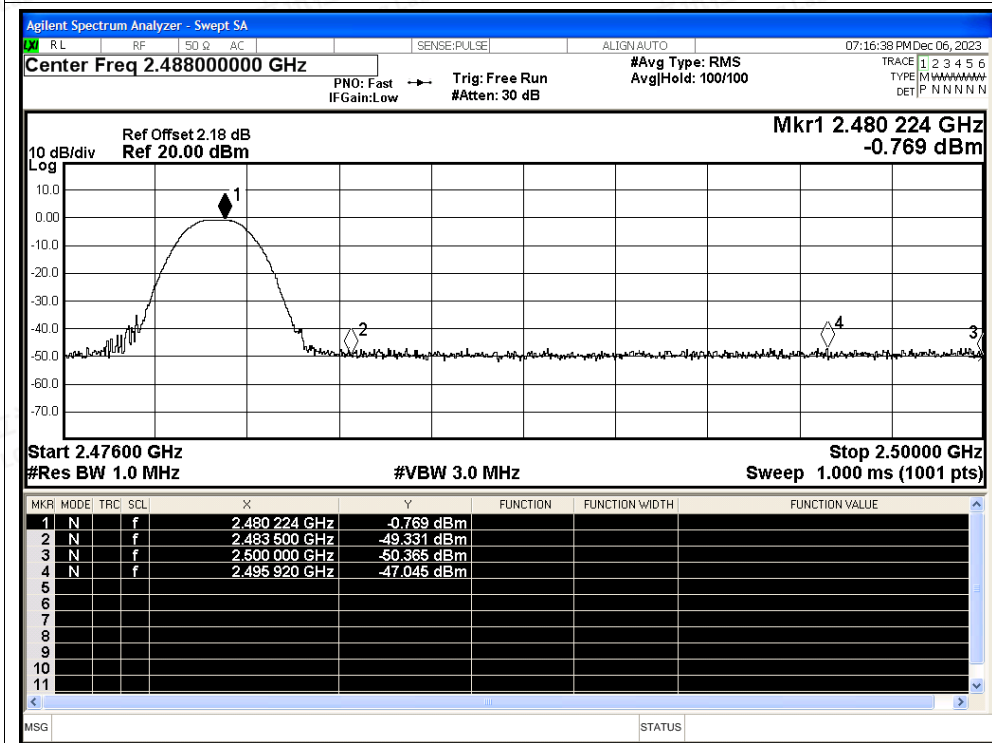
A.8 Restrict Band

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	-52.11	3.5	46.65	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.64	3.5	41.12	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2354.736	-46.64	3.5	52.12	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2363.28	-56.24	3.5	42.52	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.32	3.5	49.44	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-56.95	3.5	41.81	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.33	3.5	49.43	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.4	3.5	43.36	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.92	-47.05	3.5	51.71	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.4	3.5	43.36	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.37	3.5	48.39	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-56.35	3.5	42.41	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.63	3.5	48.13	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.7	3.5	41.06	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2361.552	-46.3	3.5	52.46	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2364.816	-56.27	3.5	42.49	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.77	3.5	48.99	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57	3.5	41.76	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-47.79	3.5	50.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.06	3.5	43.70	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.848	-44.49	3.5	54.27	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.06	3.5	43.70	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.53	3.5	50.23	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-56.39	3.5	42.37	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.3	3.5	49.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.69	3.5	41.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2364.528	-46.3	3.5	52.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2363.664	-56.29	3.5	42.47	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-48.94	3.5	49.82	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-56.94	3.5	41.82	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.22	3.5	51.54	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.4	3.5	43.36	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.784	-45.32	3.5	53.44	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.4	3.5	43.36	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48	3.5	50.76	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-56.25	3.5	42.51	Average	54	Pass

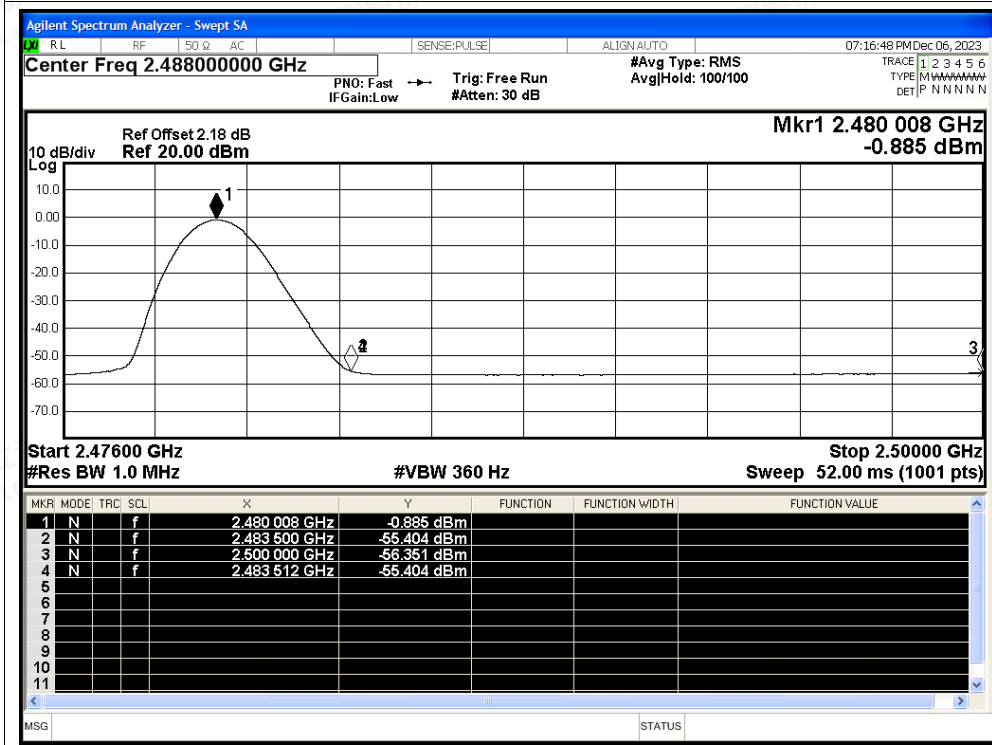




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

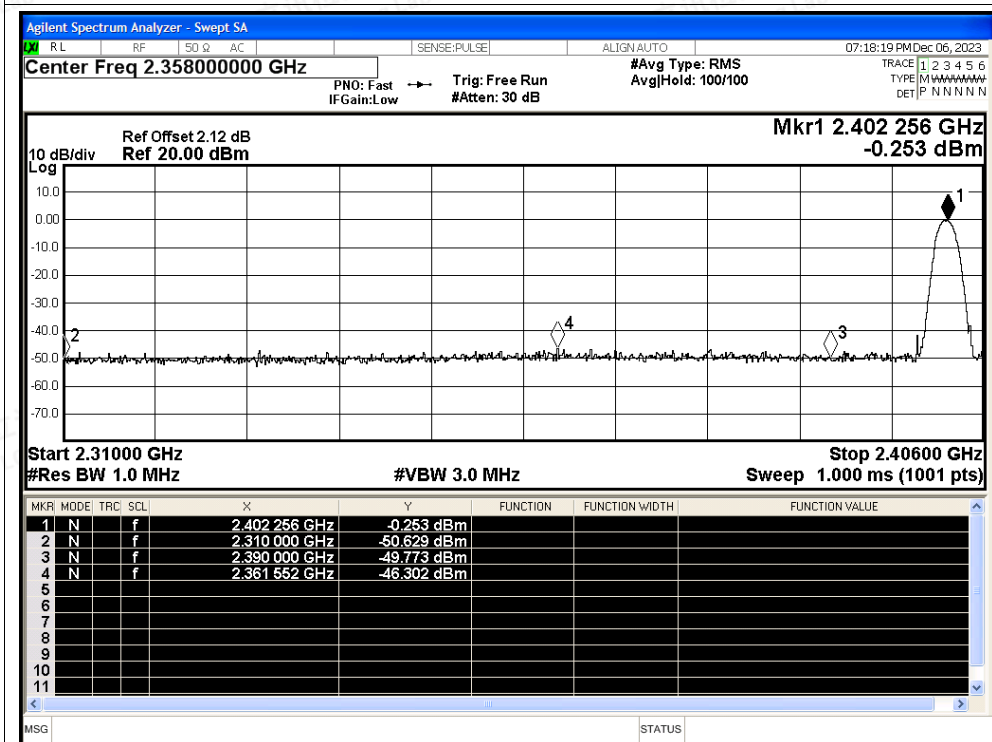


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

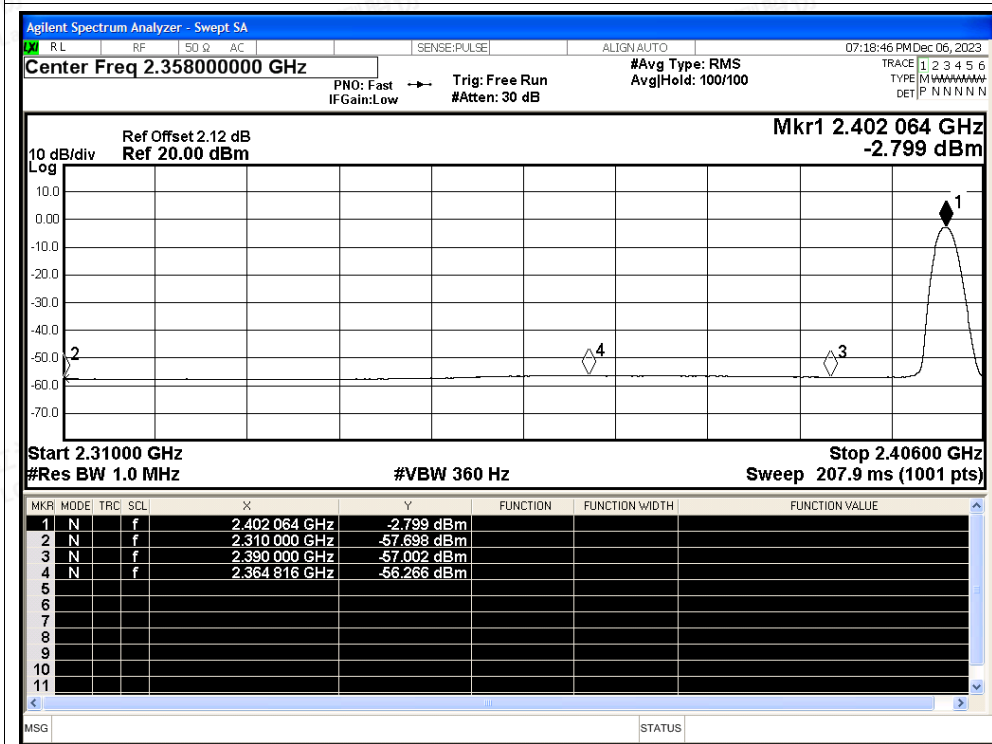




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

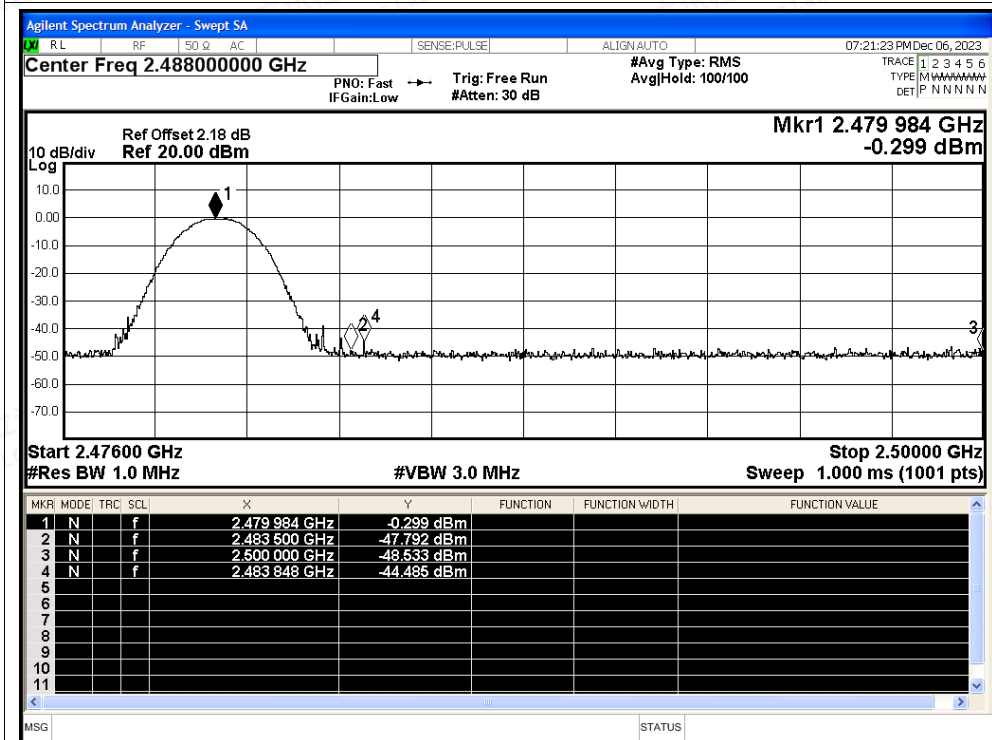


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

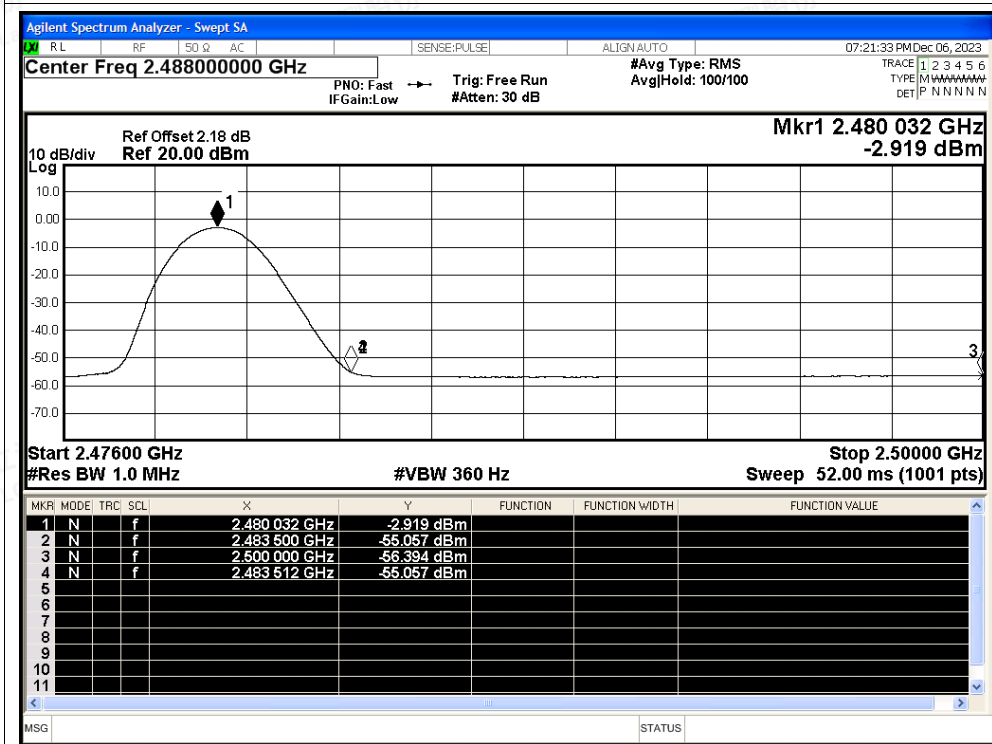




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

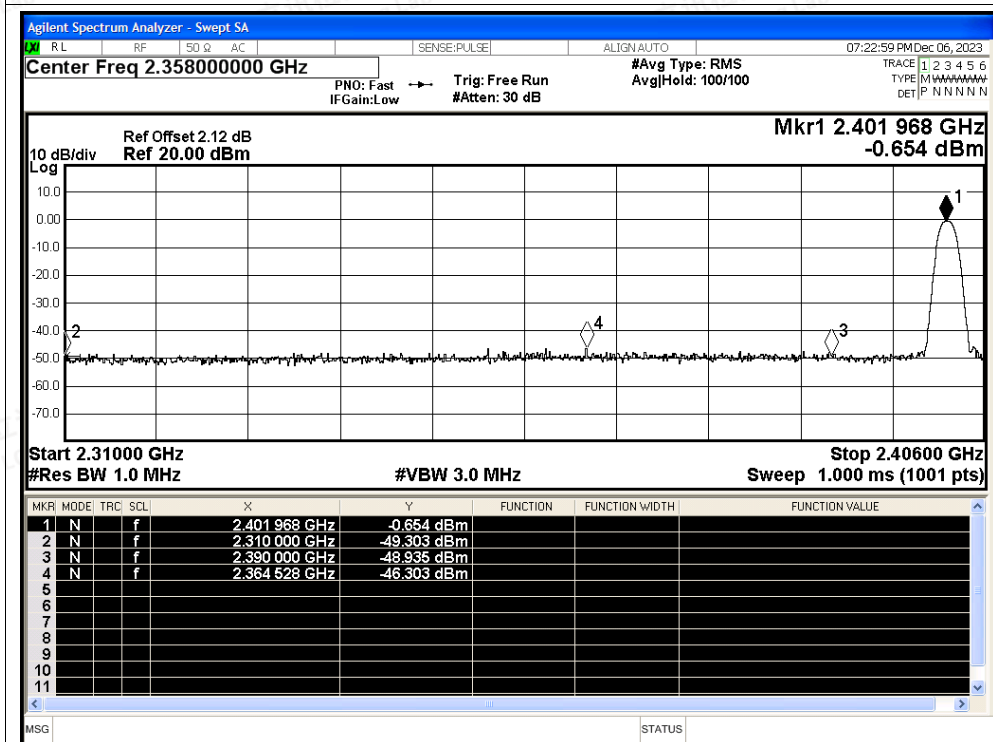


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

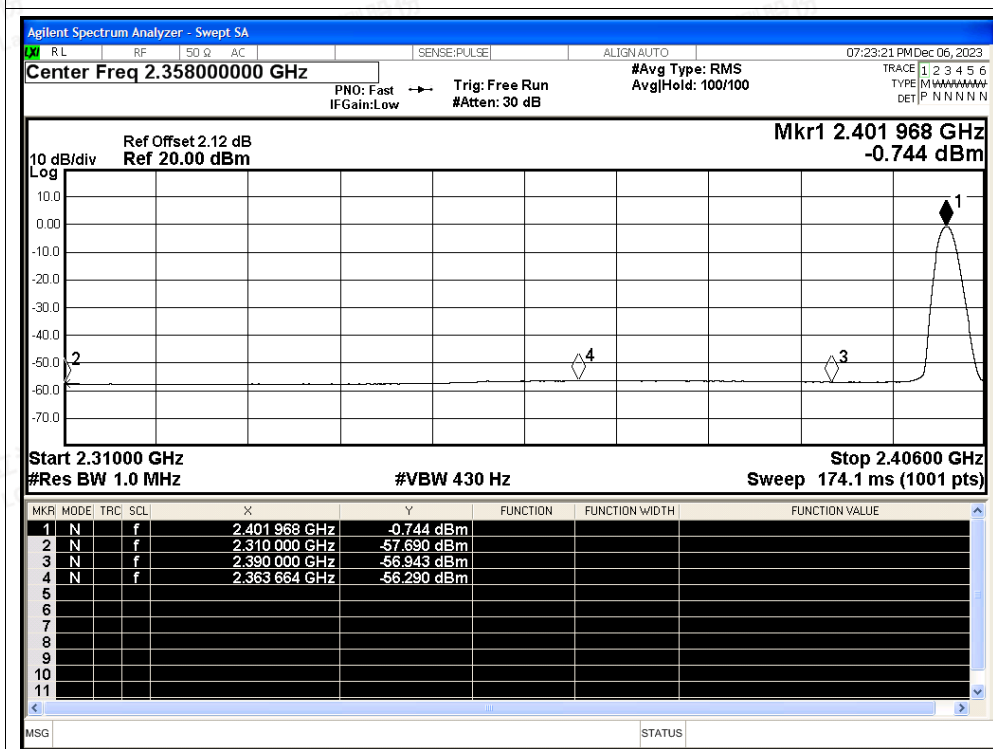




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

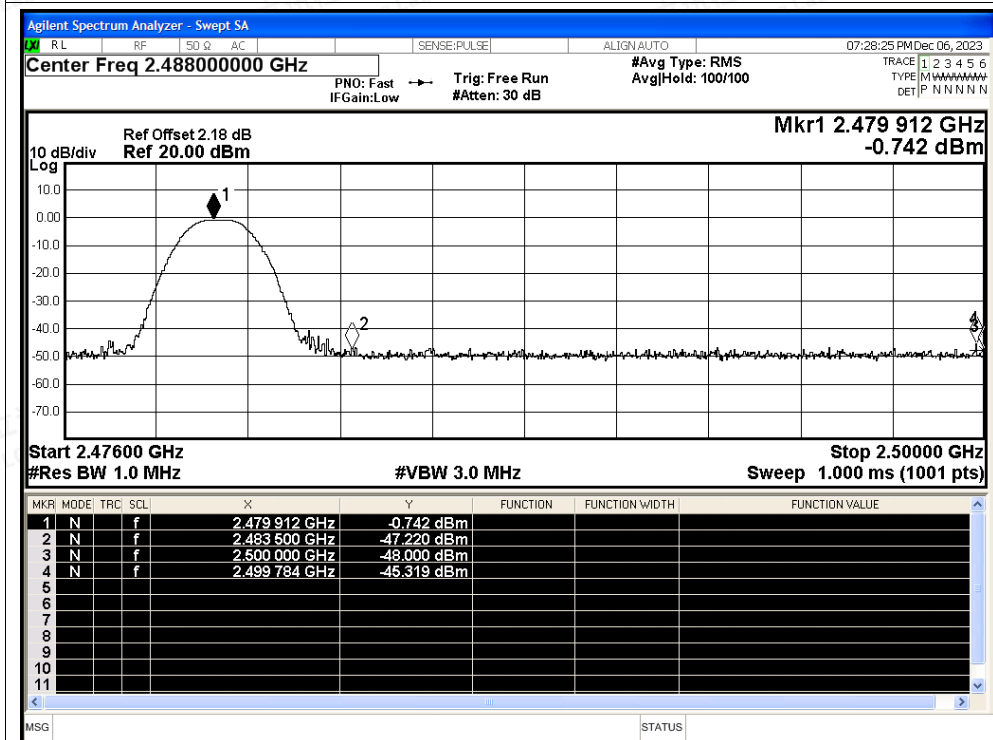


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

