



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TA3000 WirelessGaming headset

Test Model: TA3000

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Ling Zhu



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A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	0.959	N/A	Pass
NVNT	1-DH5	2441	Ant	1.017	N/A	Pass
NVNT	1-DH5	2480	Ant	1.013	N/A	Pass
NVNT	2-DH5	2402	Ant	1.29	N/A	Pass
NVNT	2-DH5	2441	Ant	1.285	N/A	Pass
NVNT	2-DH5	2480	Ant	1.315	N/A	Pass
NVNT	3-DH5	2402	Ant	1.295	N/A	Pass
NVNT	3-DH5	2441	Ant	1.296	N/A	Pass
NVNT	3-DH5	2480	Ant	1.273	N/A	Pass



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Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant

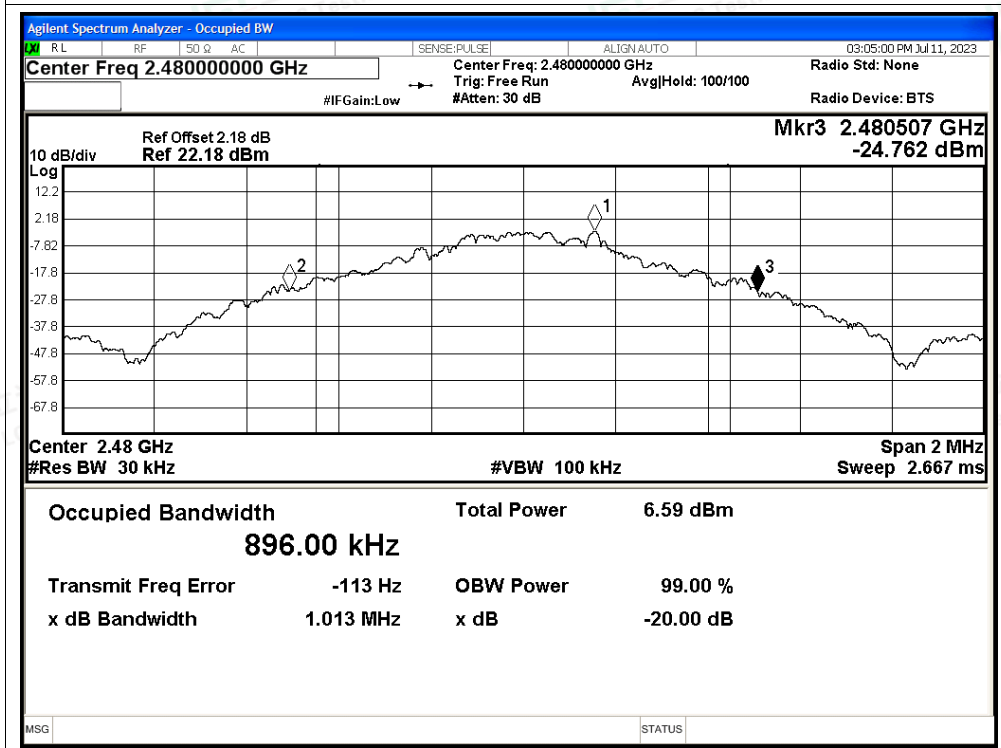


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

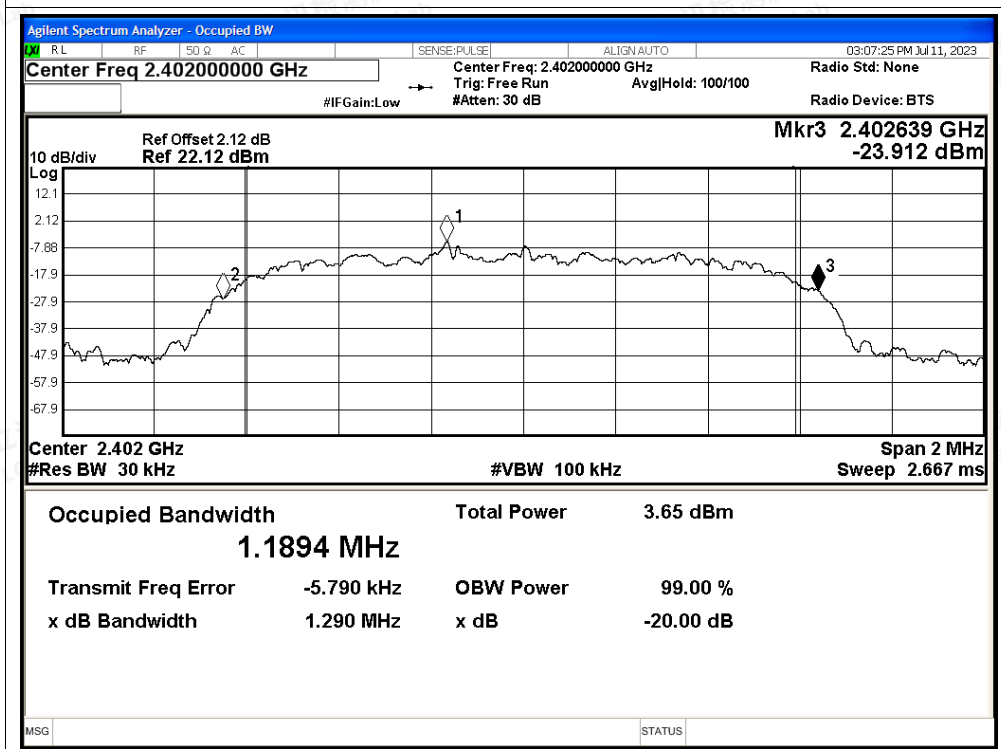




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

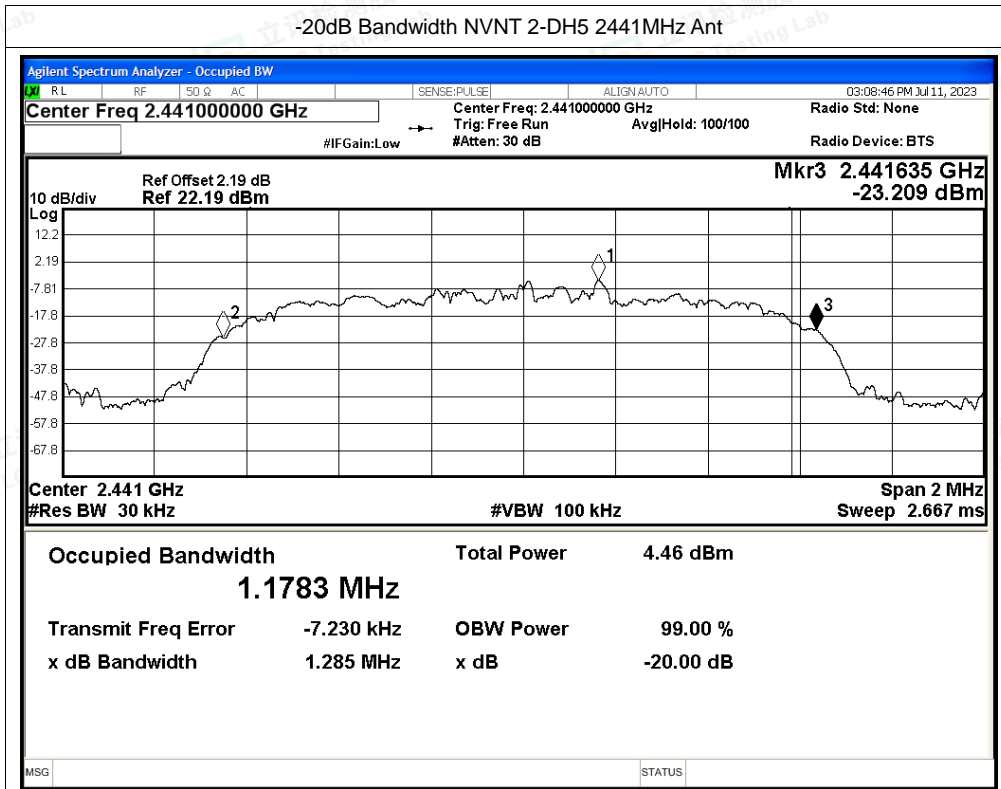


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

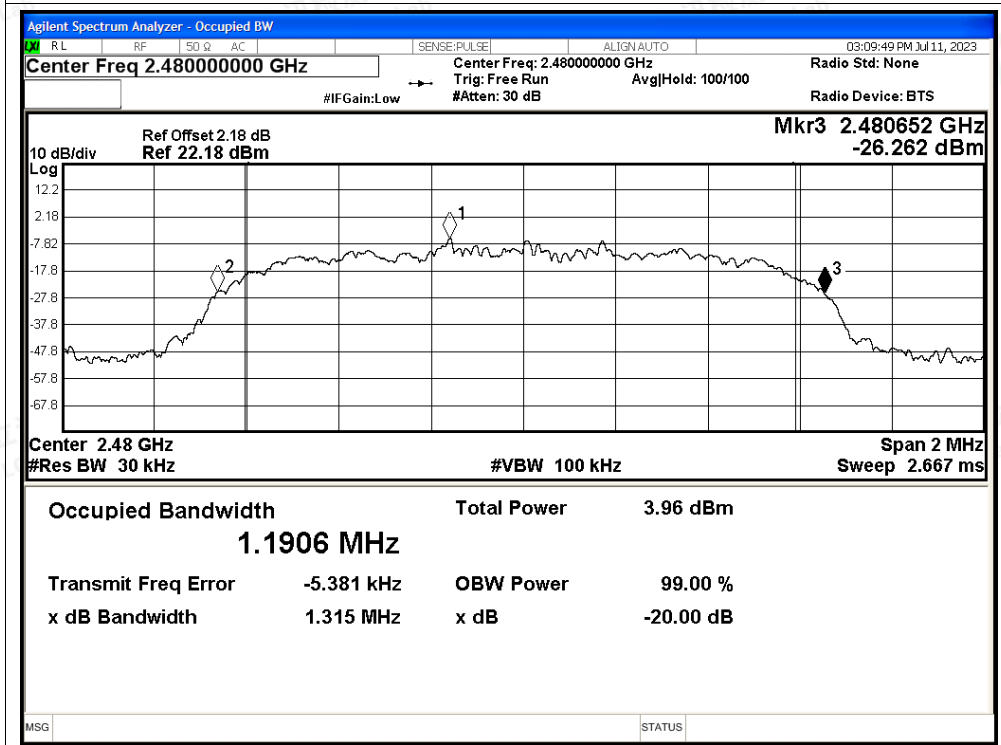




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

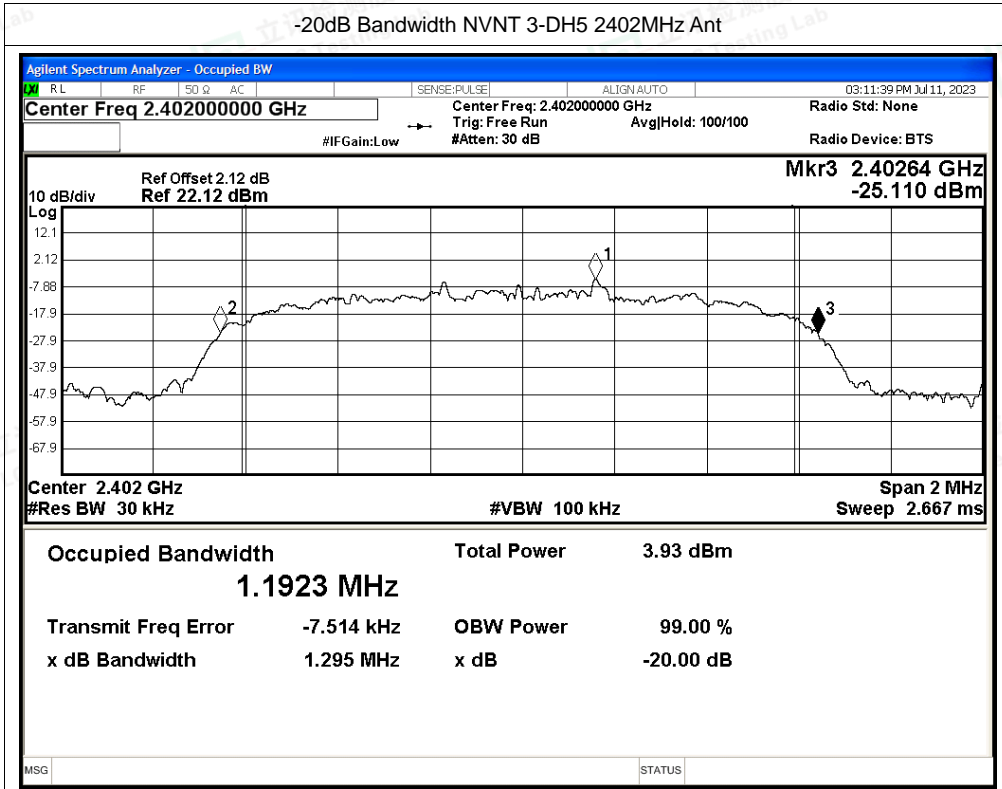


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

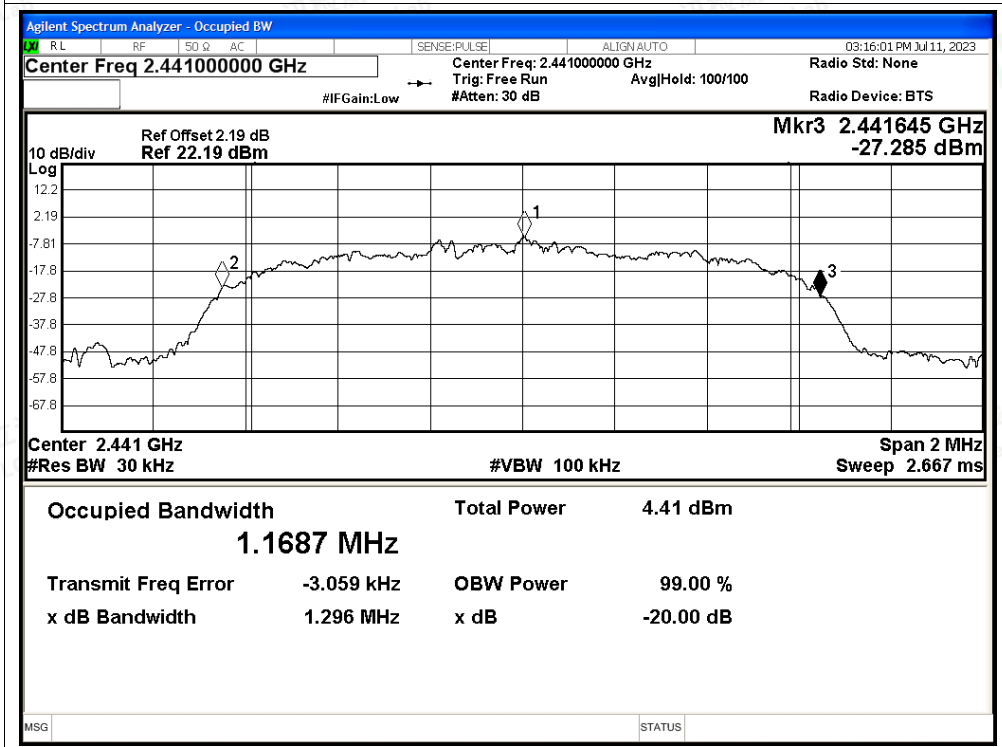


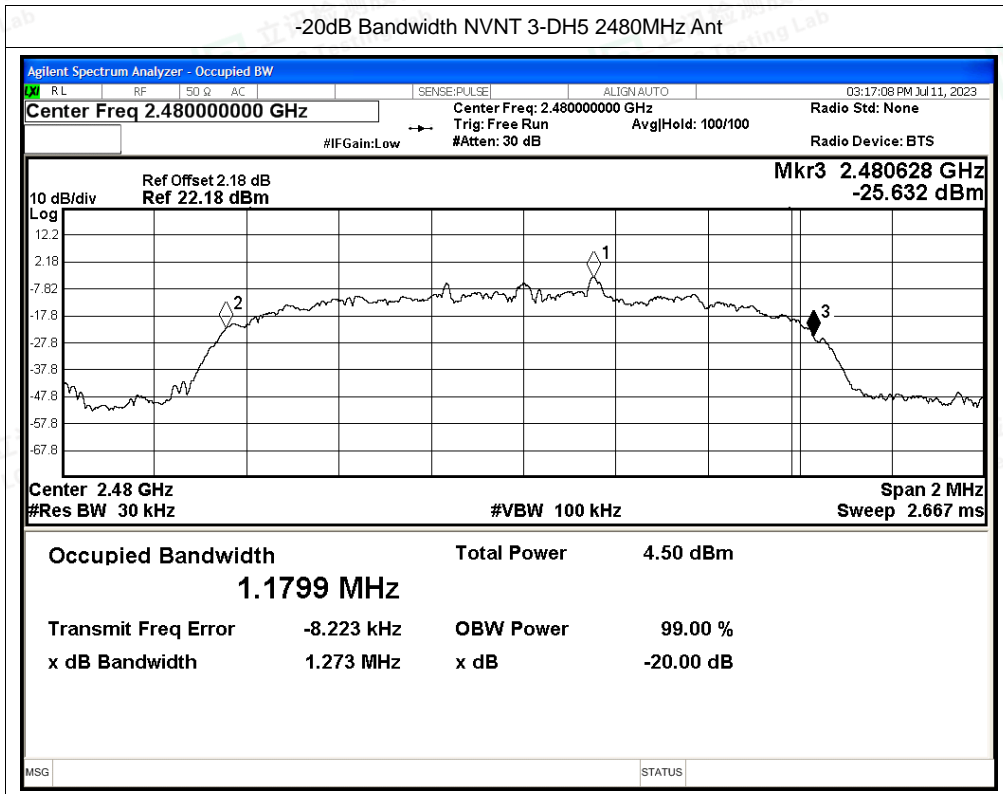


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant







A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	0.07	21	Pass
NVNT	1-DH5	2441	Ant	0.21	21	Pass
NVNT	1-DH5	2480	Ant	0.22	21	Pass
NVNT	2-DH5	2402	Ant	-0.28	21	Pass
NVNT	2-DH5	2441	Ant	-0.14	21	Pass
NVNT	2-DH5	2480	Ant	-0.10	21	Pass
NVNT	3-DH5	2402	Ant	-0.18	21	Pass
NVNT	3-DH5	2441	Ant	-0.04	21	Pass
NVNT	3-DH5	2480	Ant	0.35	21	Pass

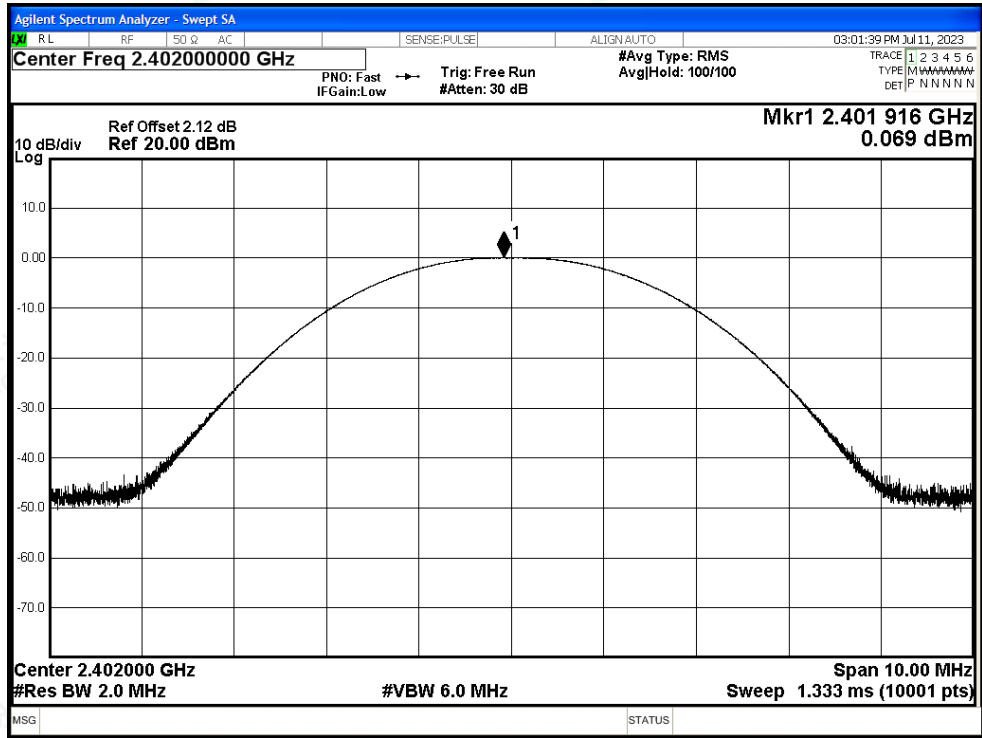


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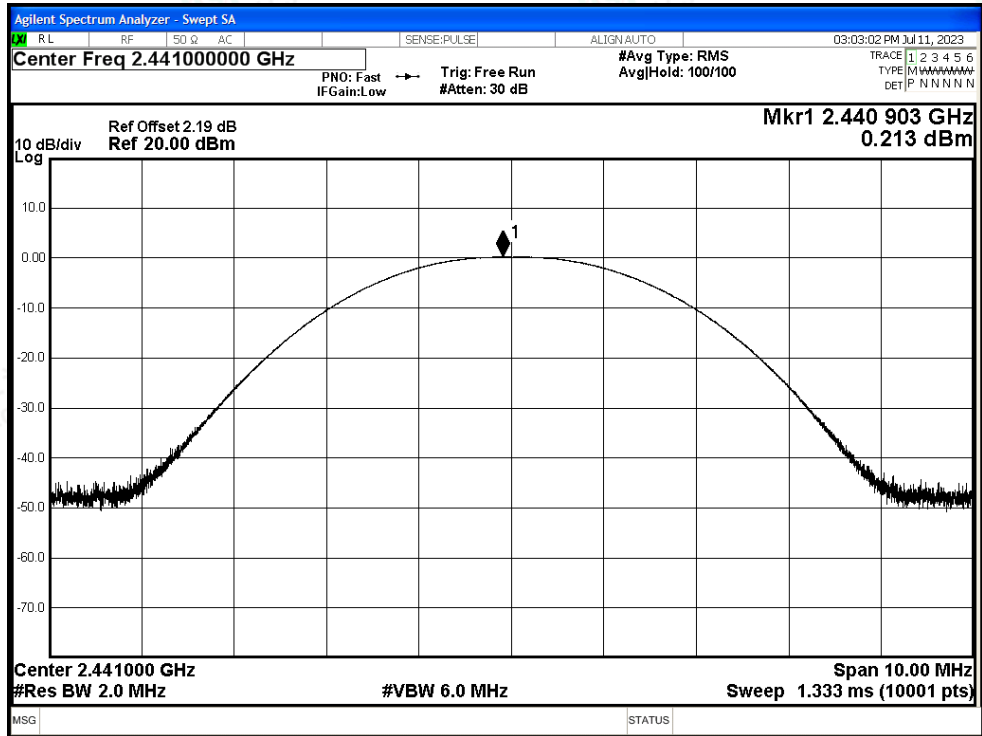


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

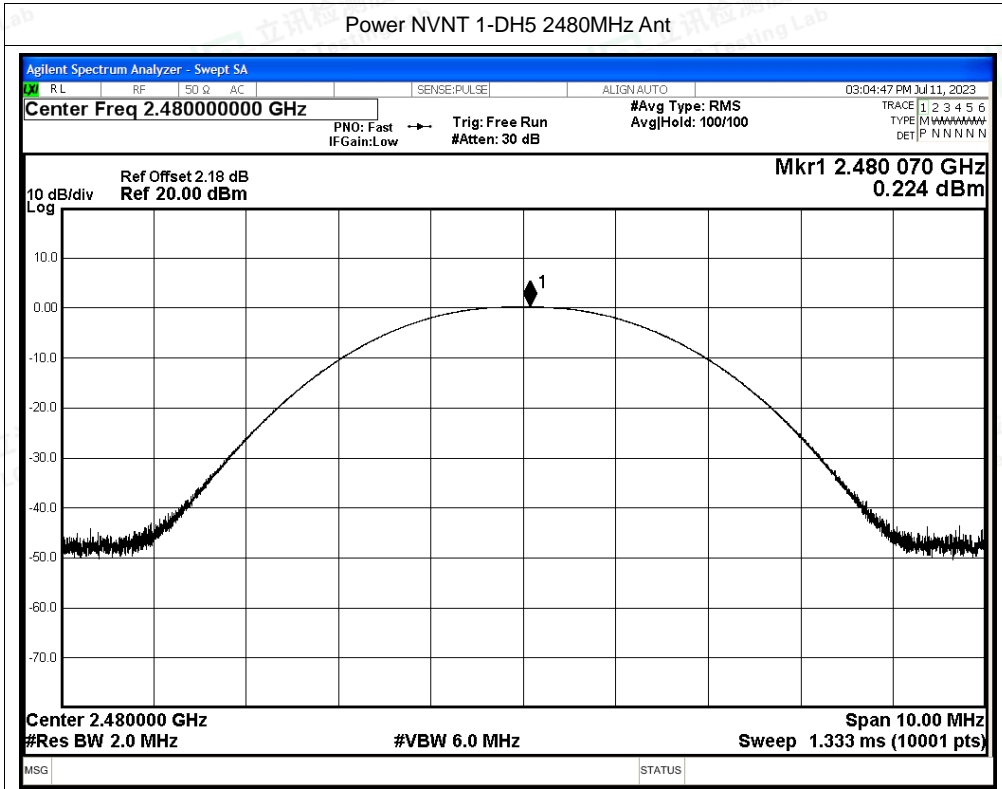


Power NVNT 1-DH5 2441MHz Ant

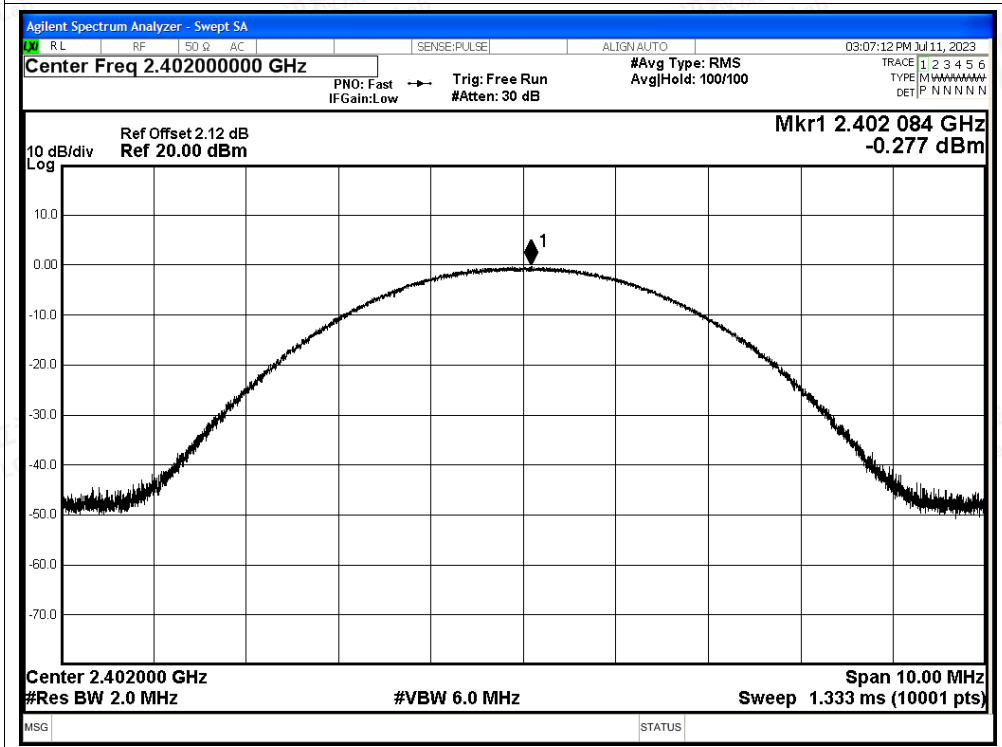




Power NVNT 1-DH5 2480MHz Ant

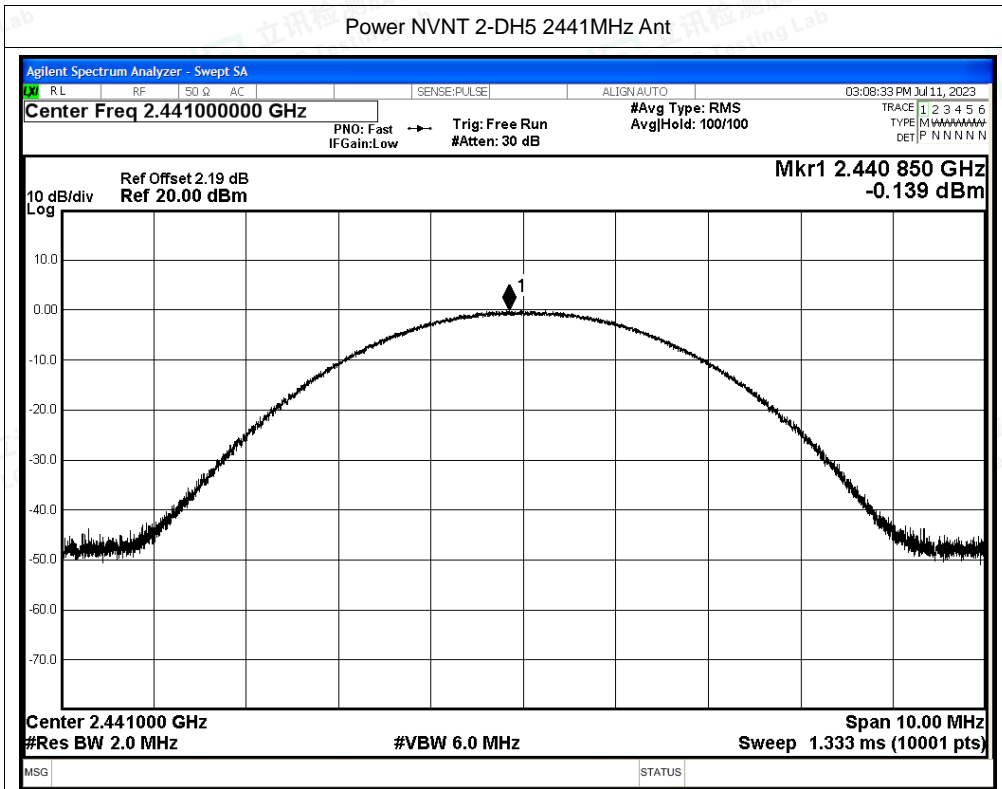


Power NVNT 2-DH5 2402MHz Ant

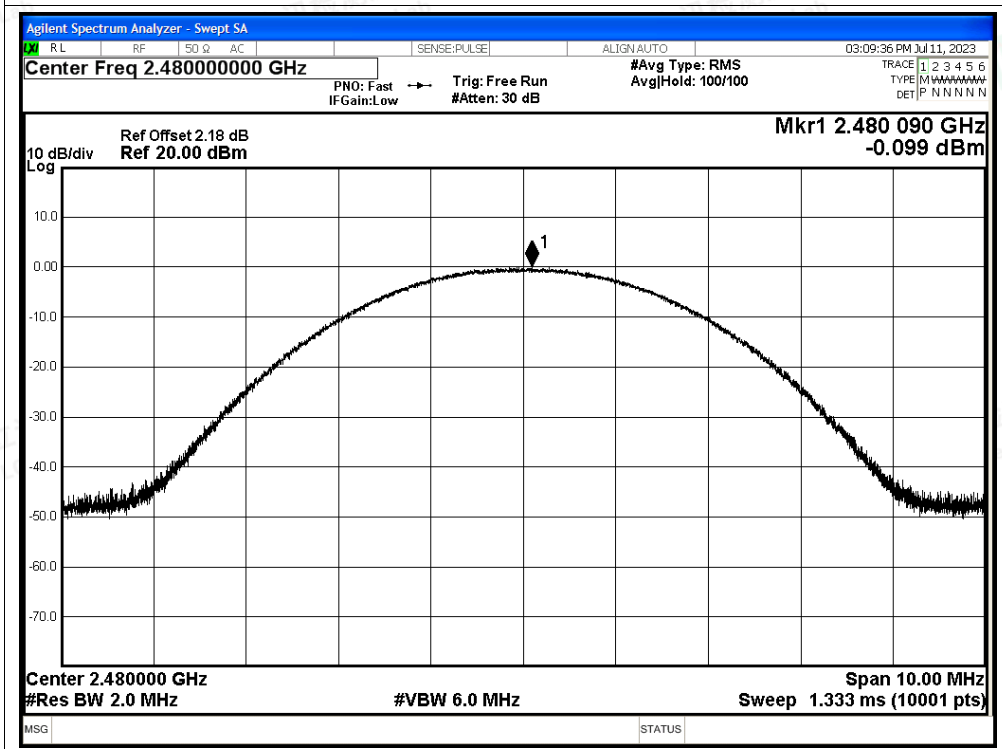




Power NVNT 2-DH5 2441MHz Ant

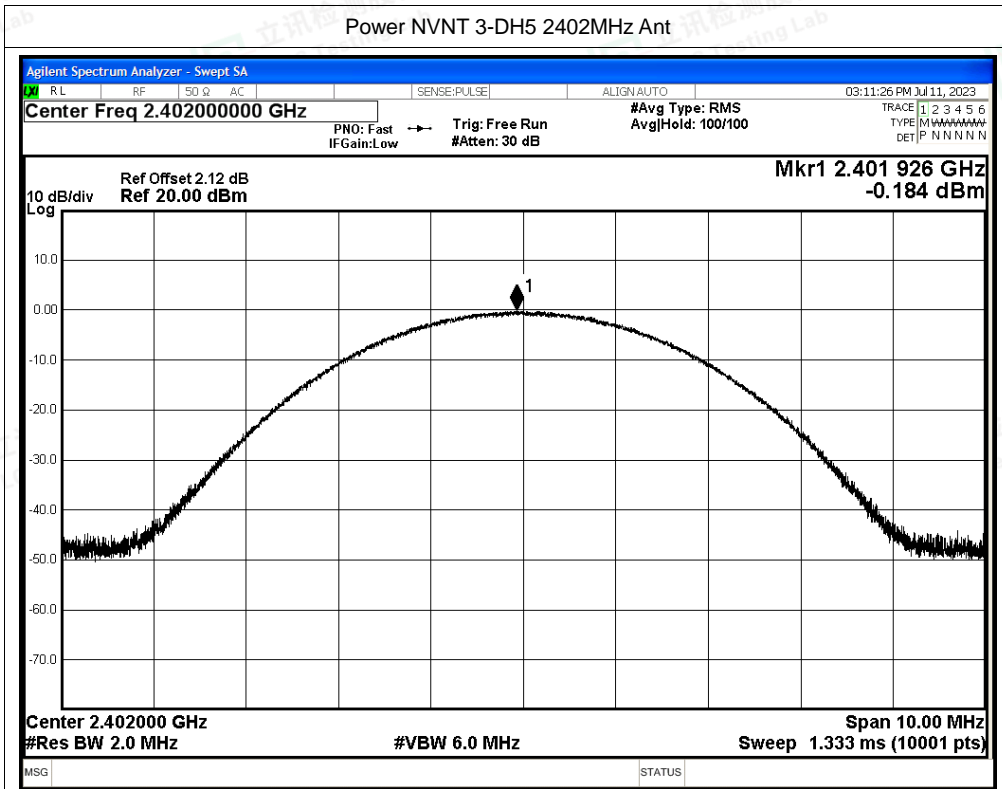


Power NVNT 2-DH5 2480MHz Ant

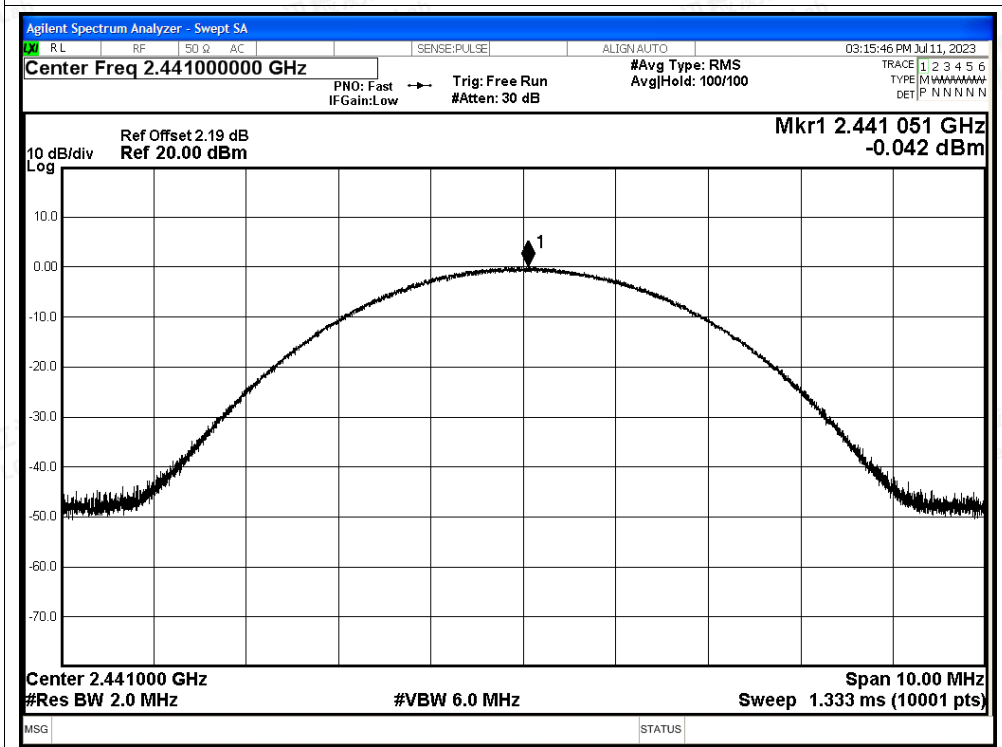


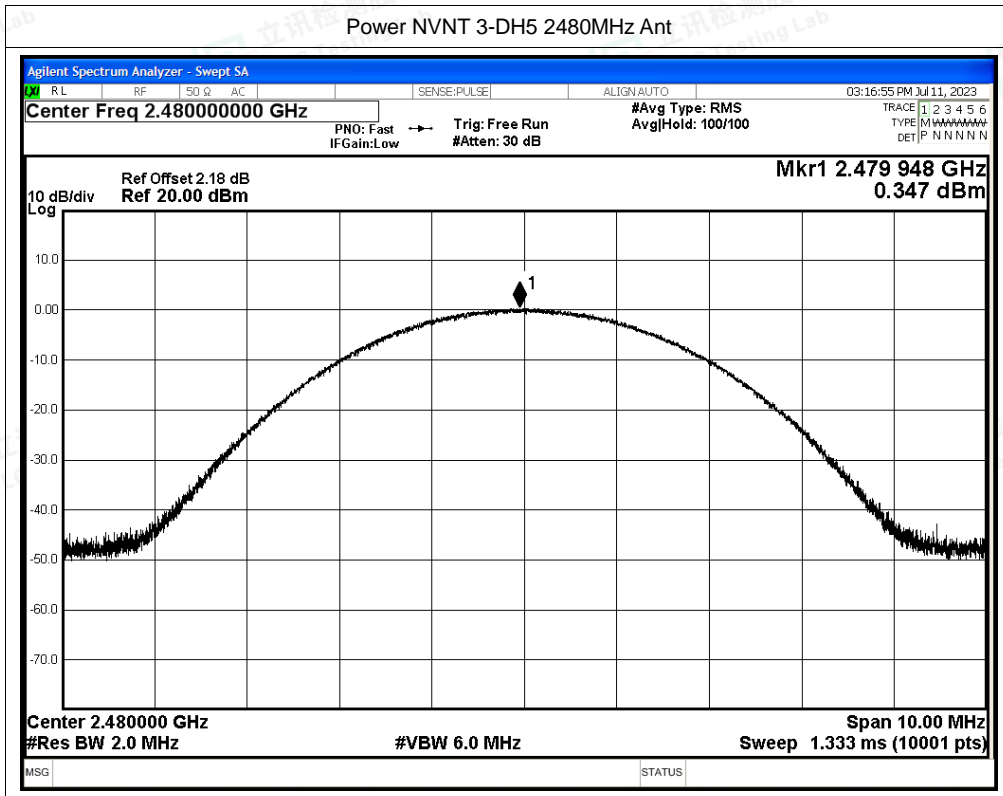


Power NVNT 3-DH5 2402MHz Ant



Power NVNT 3-DH5 2441MHz Ant





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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.966	2403.006	1.04	0.678	Pass
NVNT	2-DH5	Ant	2402.008	2403.154	1.146	0.877	Pass
NVNT	3-DH5	Ant	2402.158	2403.148	0.99	0.864	Pass

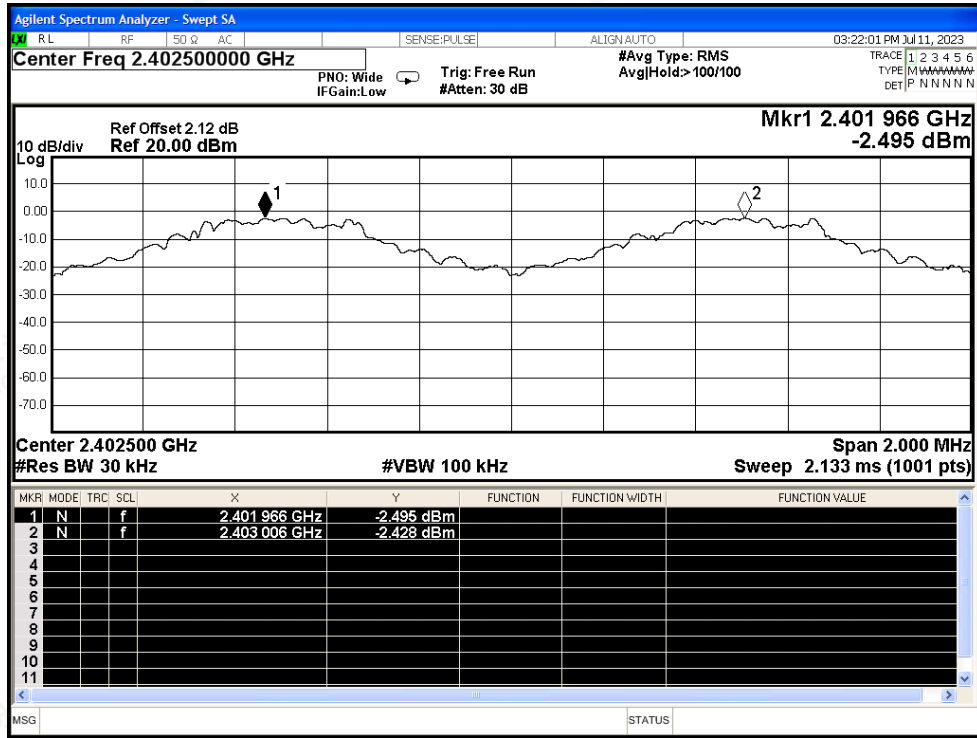


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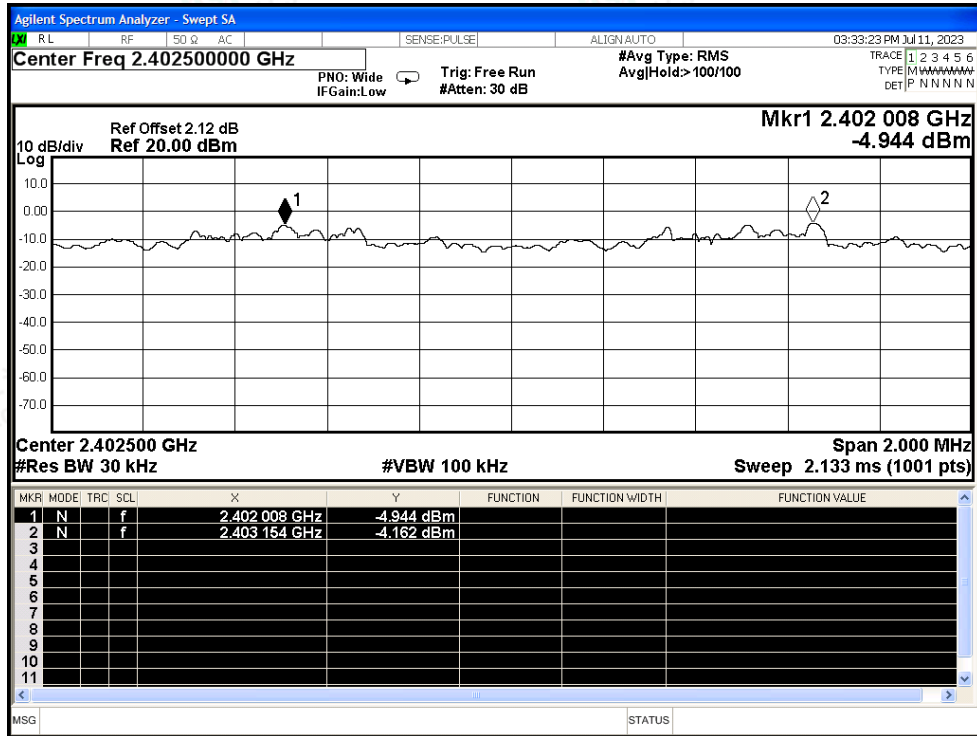


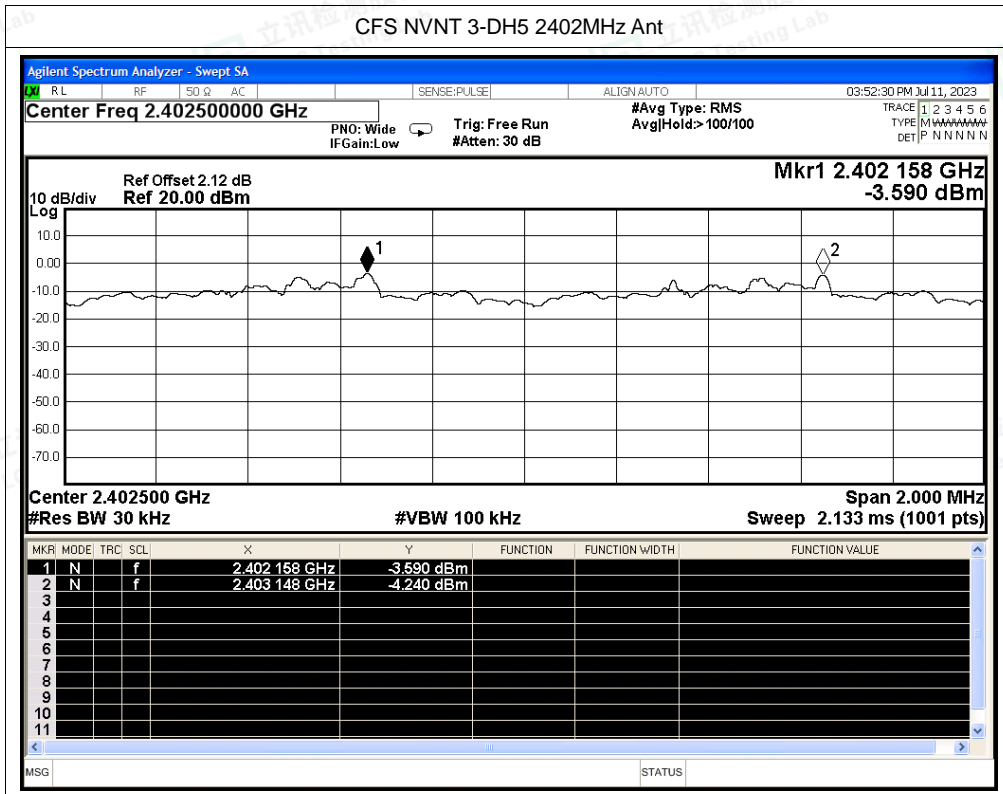
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant







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	Ant	2.882	331.43	115	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.881	293.862	102	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.887	297.361	103	31600	400	Pass

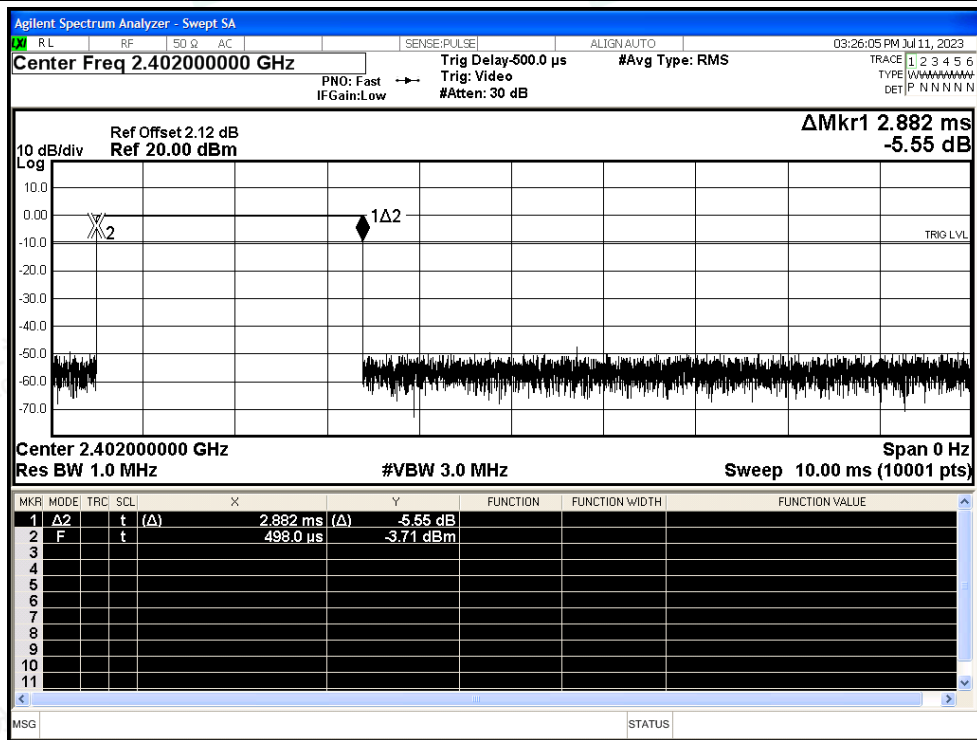


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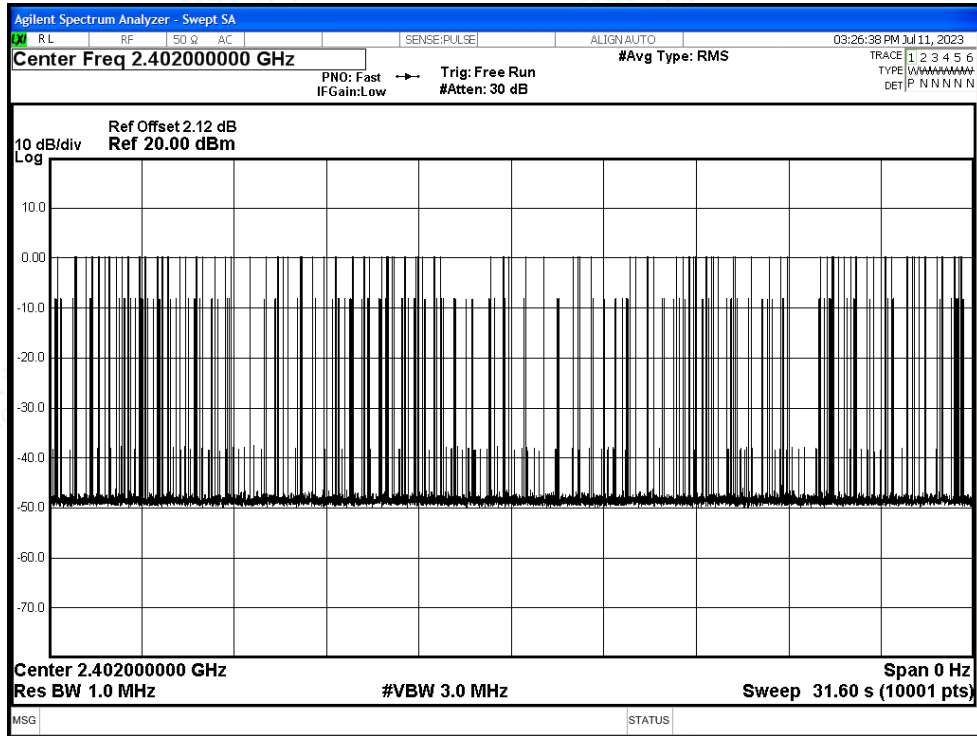


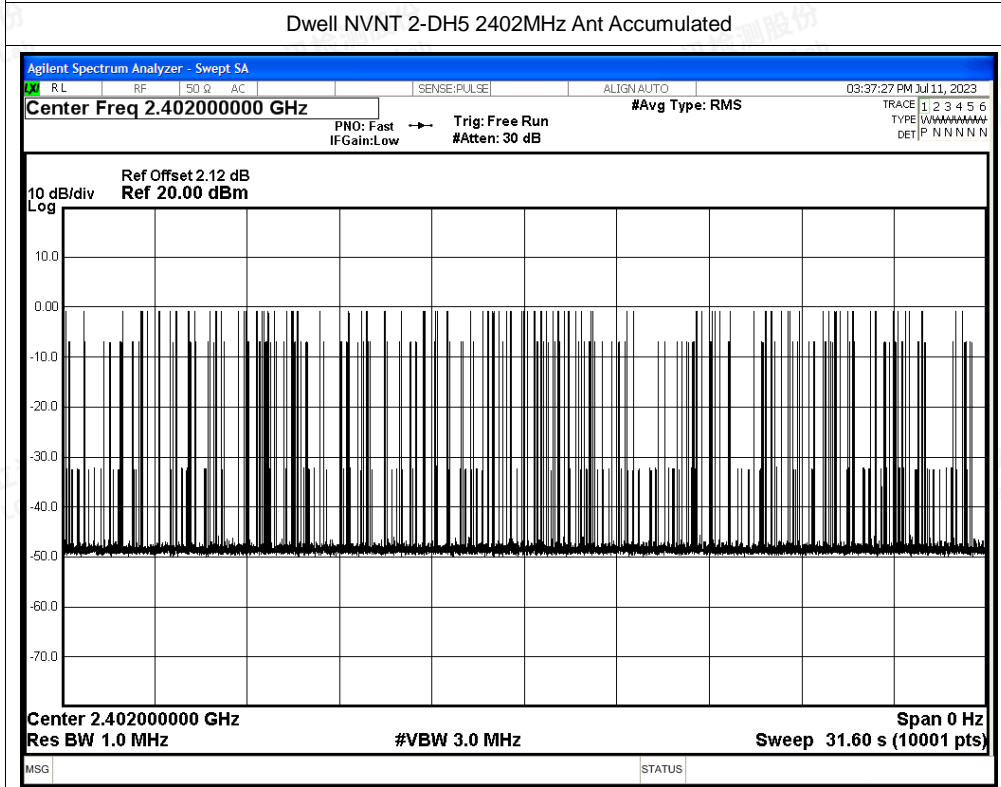
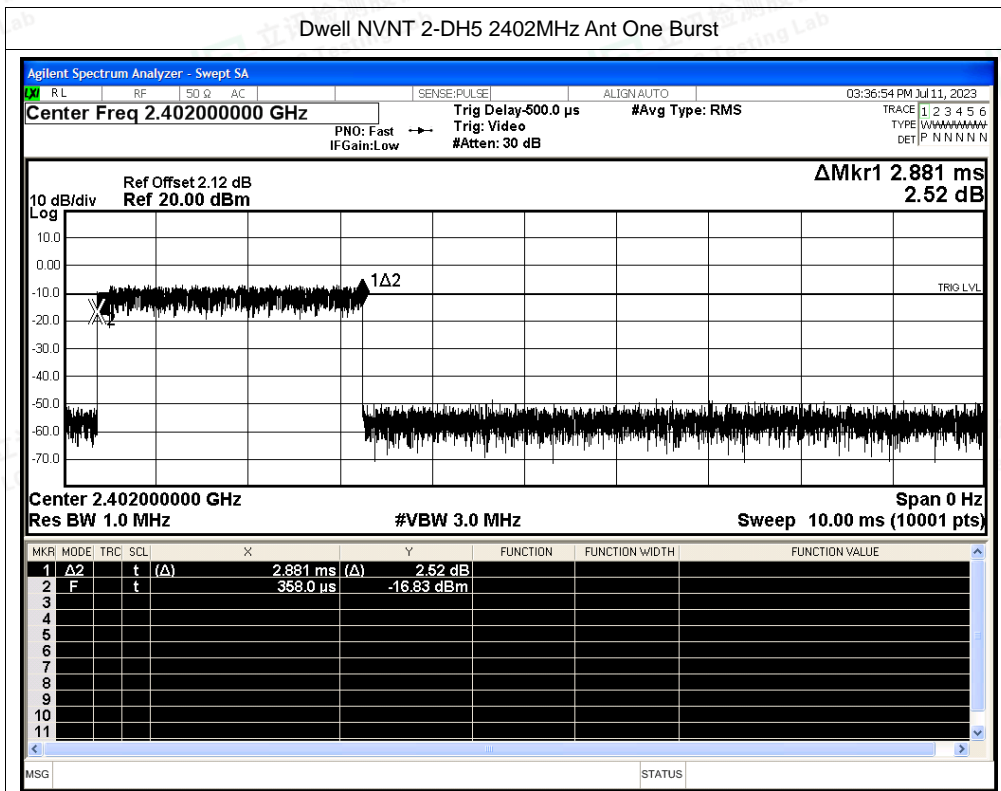
Test Graphs

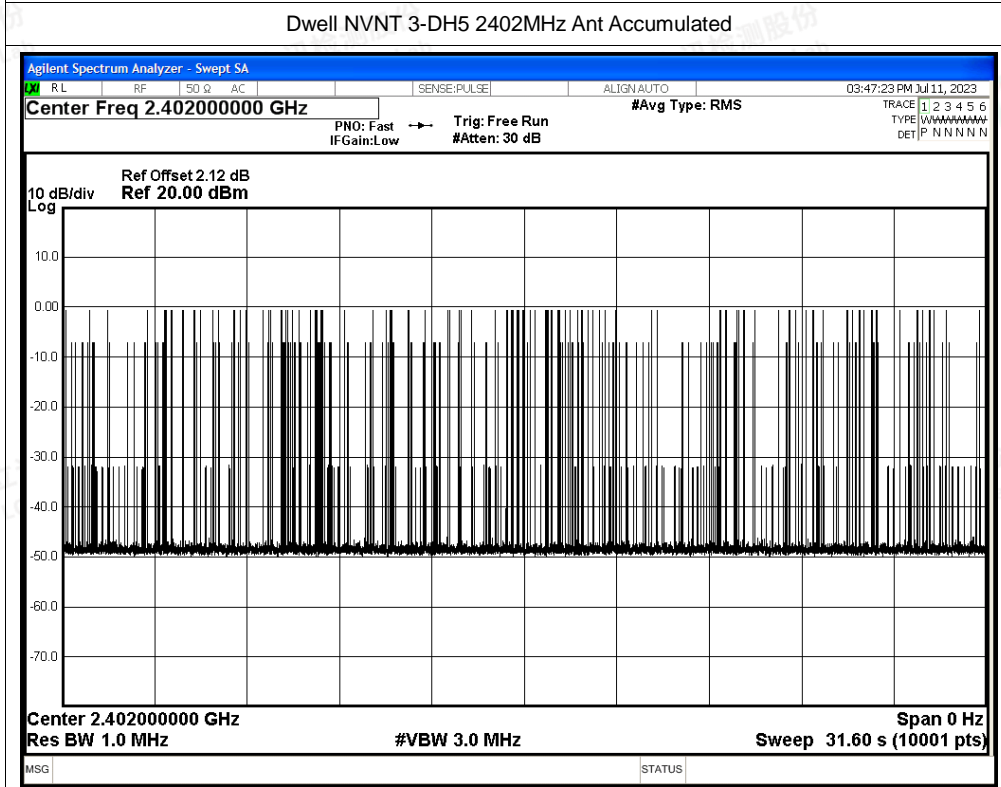
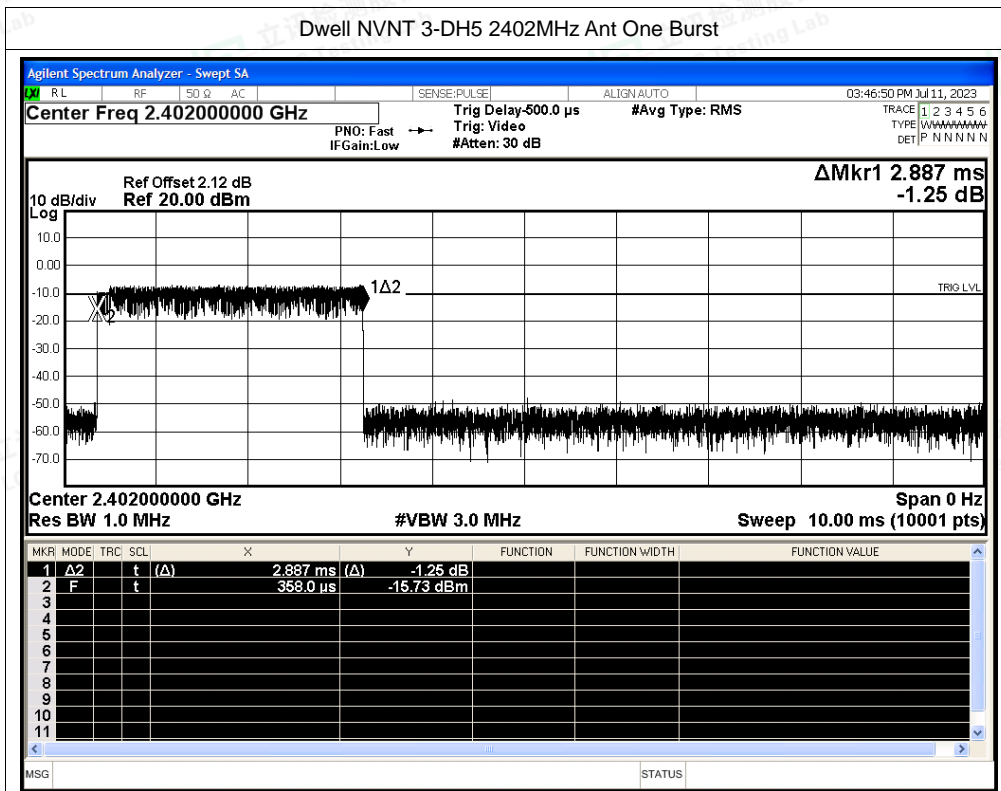
Dwell NVNT 1-DH5 2402MHz Ant One Burst



Dwell NVNT 1-DH5 2402MHz Ant Accumulated









A.5 Number of Hopping Channel

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

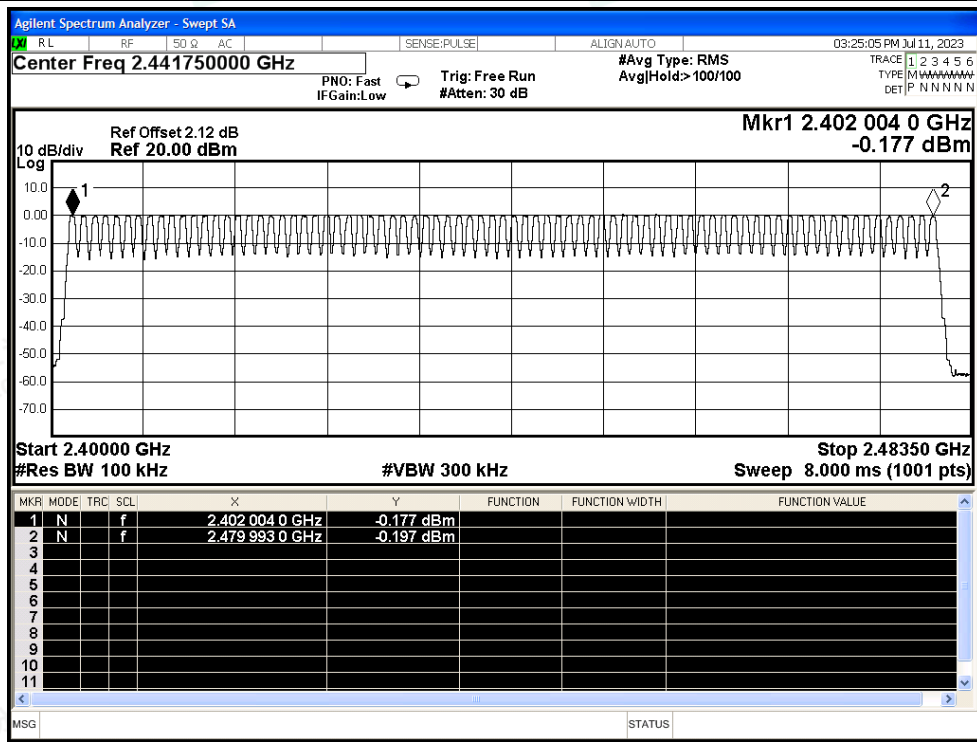


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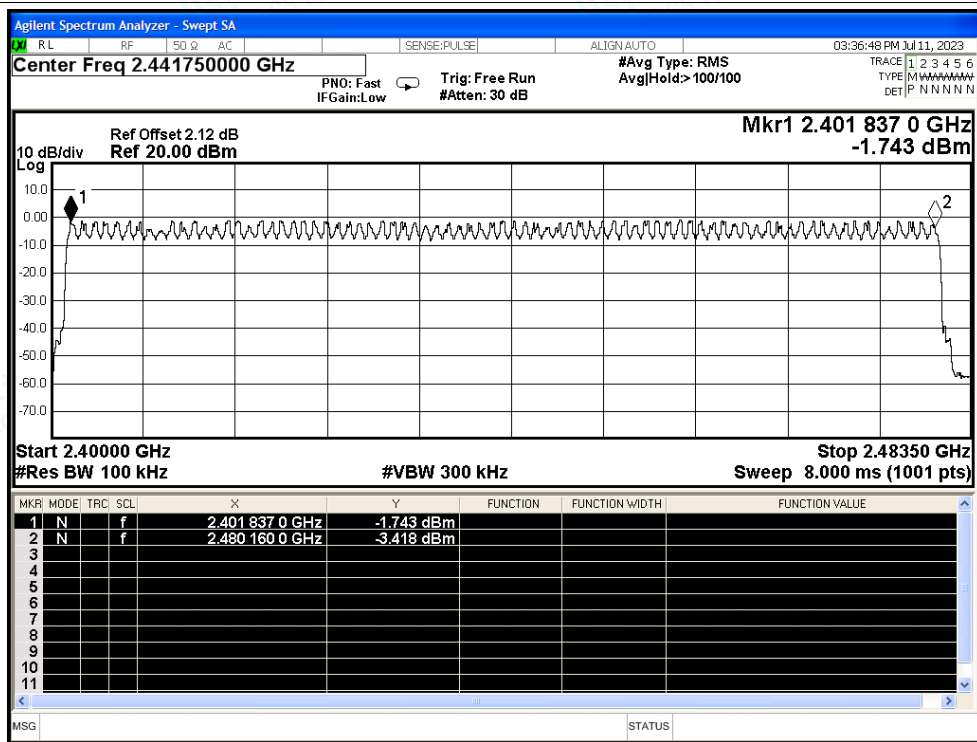


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant

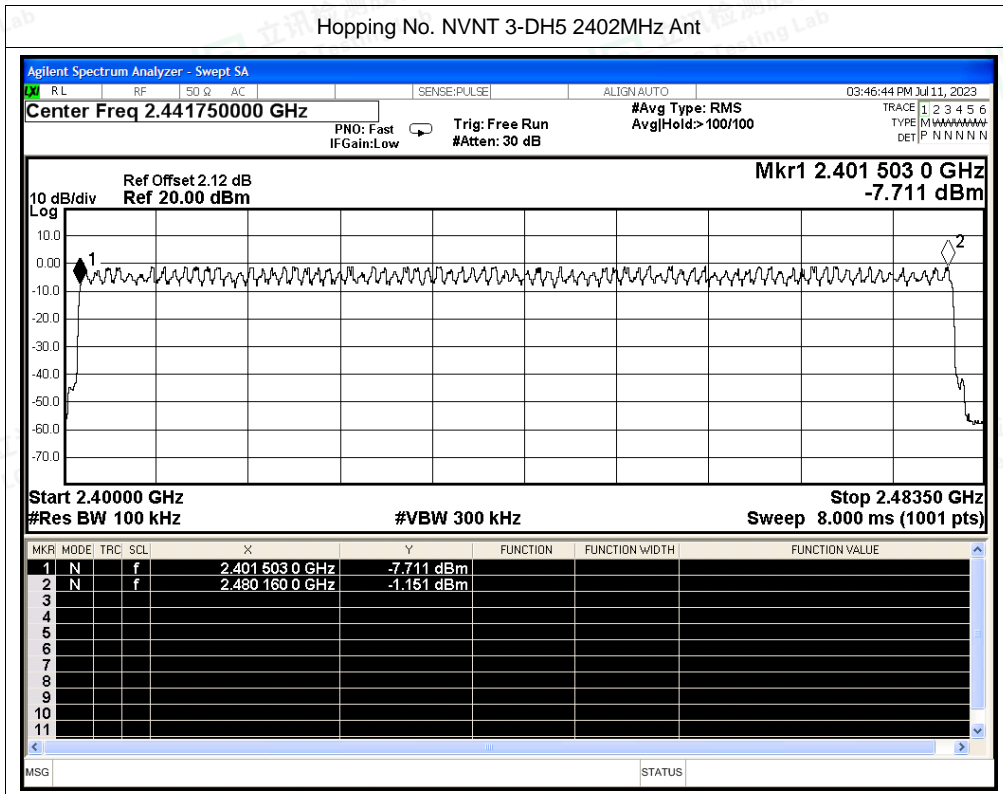


Hopping No. NVNT 2-DH5 2402MHz Ant





Hopping No. NVNT 3-DH5 2402MHz Ant





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-55.95	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-56.23	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-52.46	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-55.67	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-54.66	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-53.33	-20	Pass

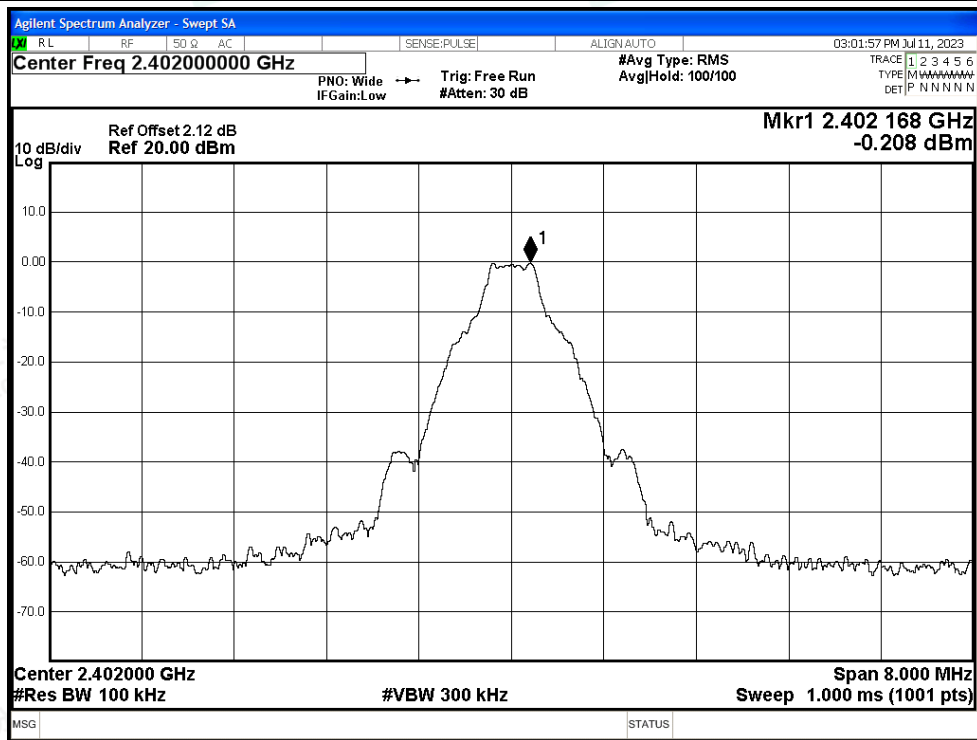


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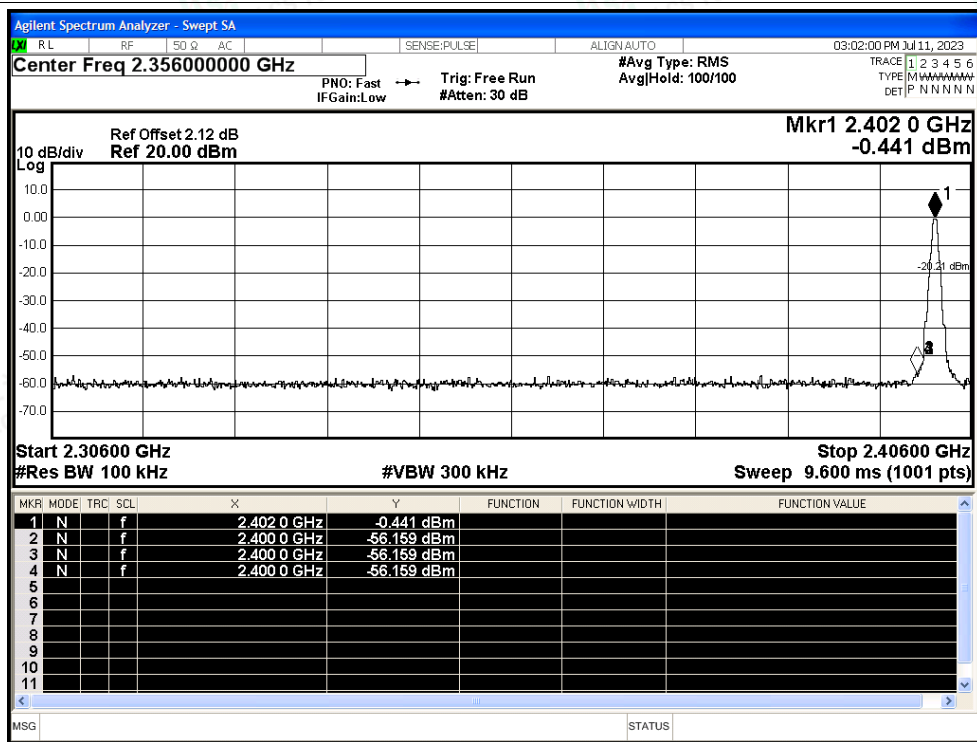


Test Graphs

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

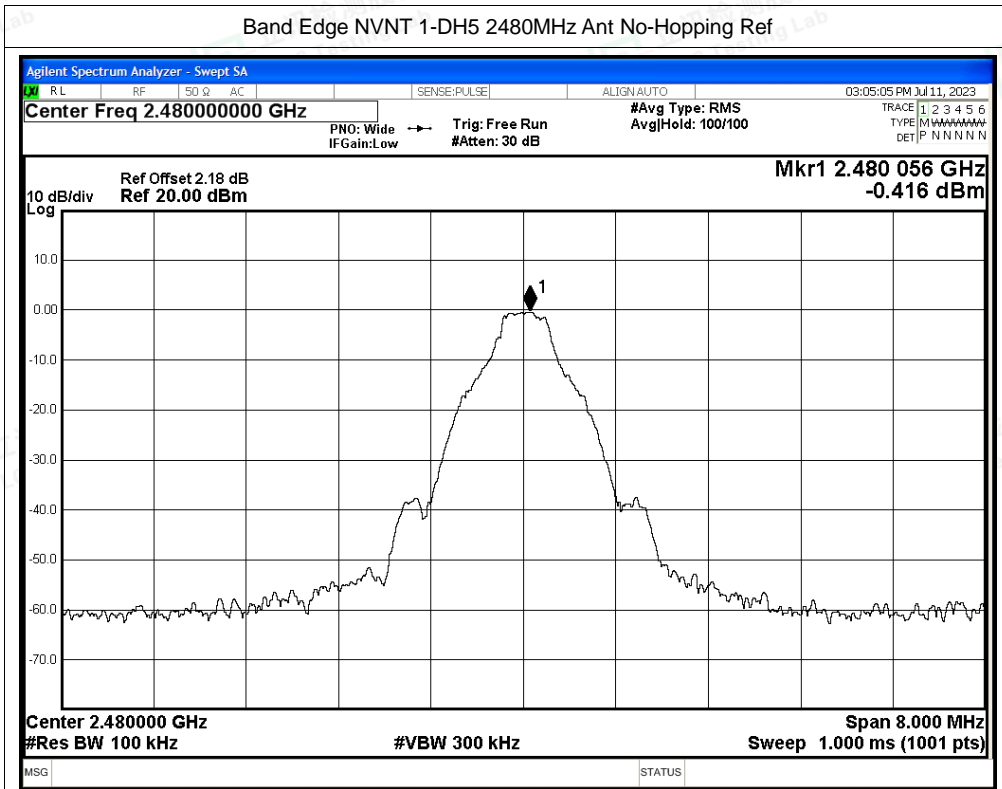


Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

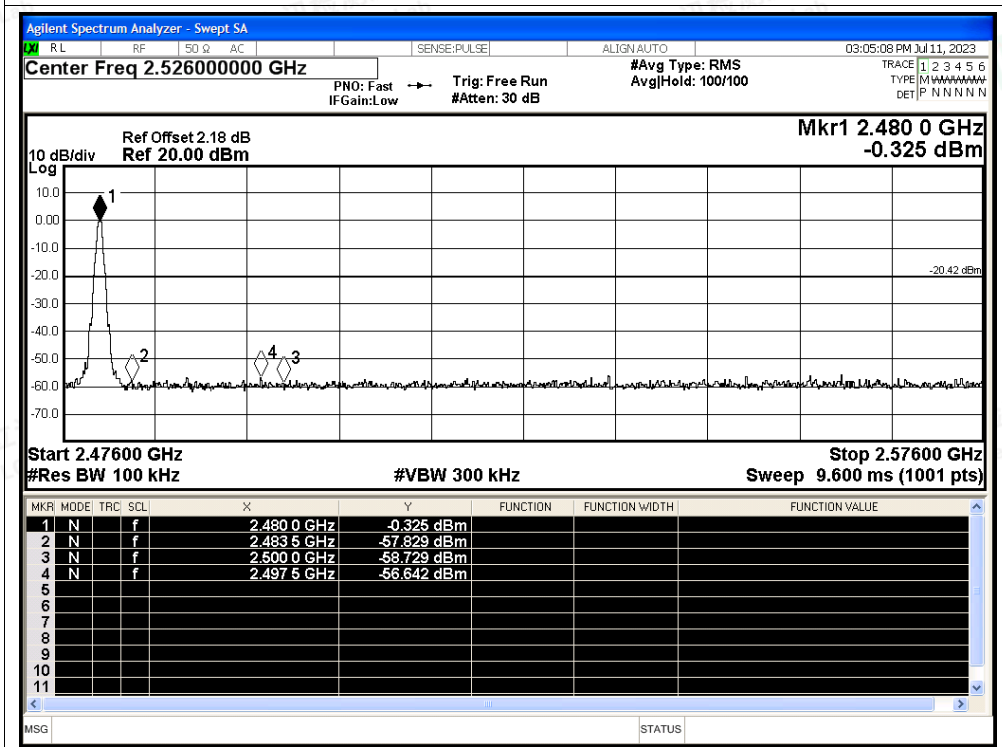


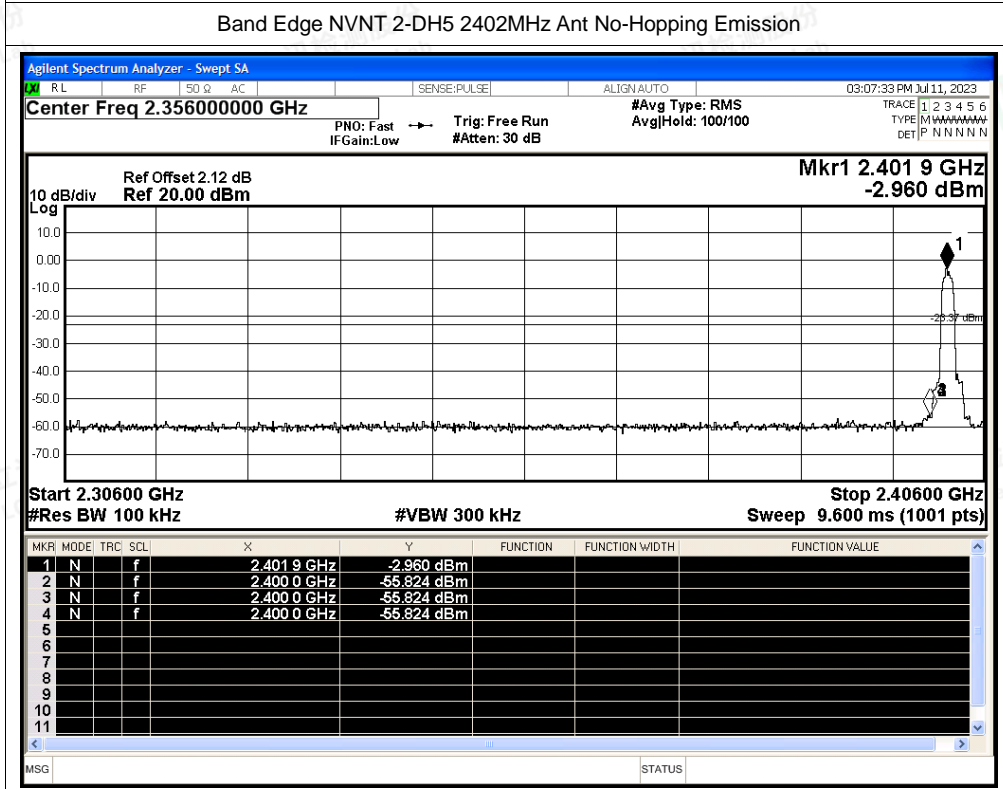
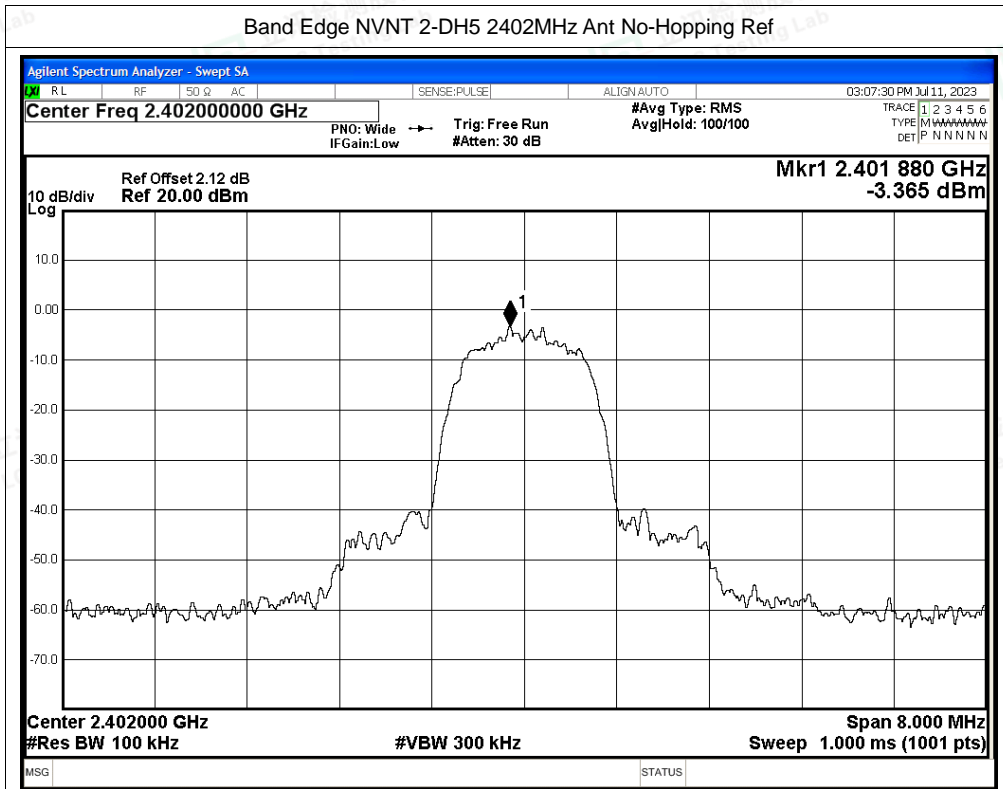


Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Ref



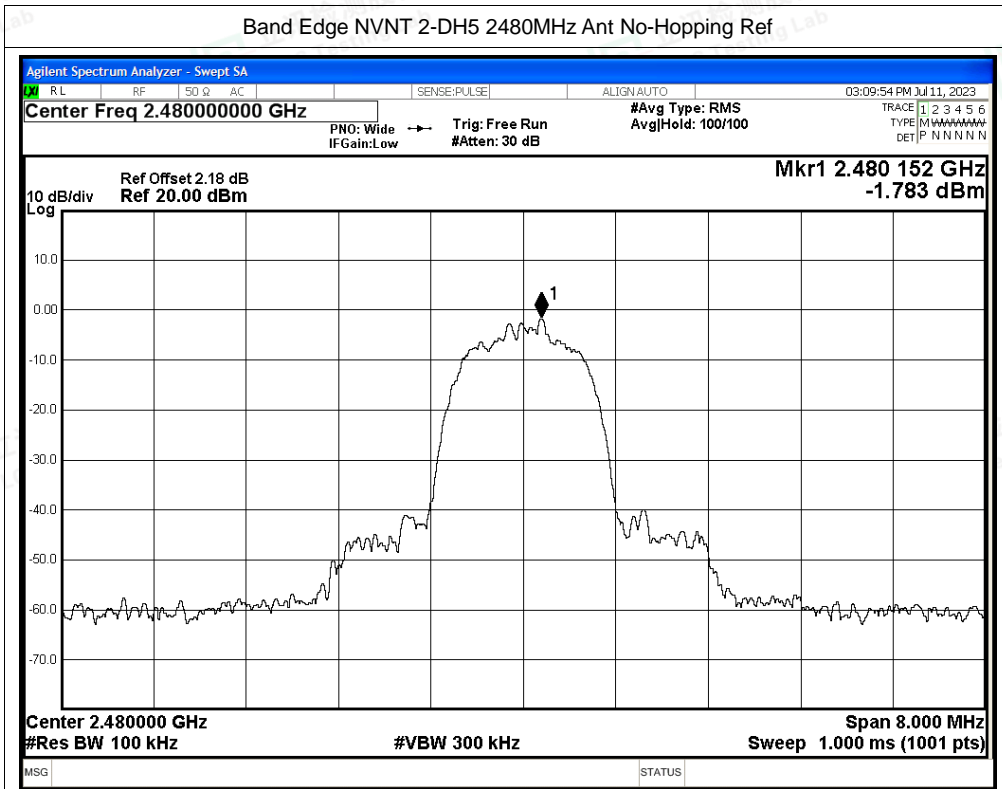
Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Emission



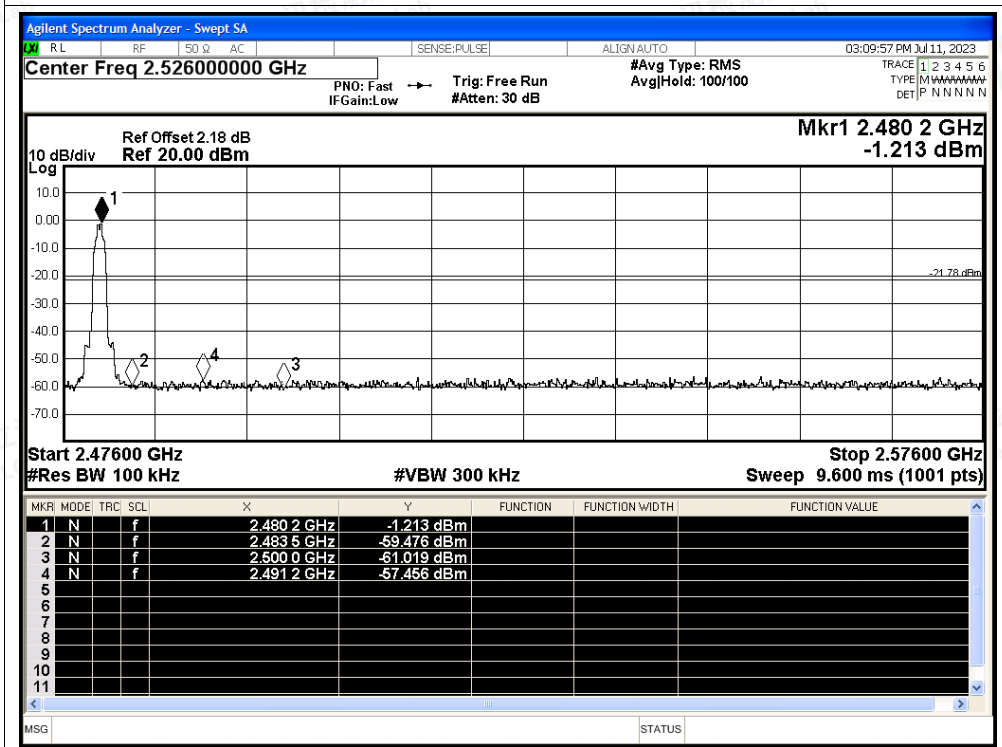


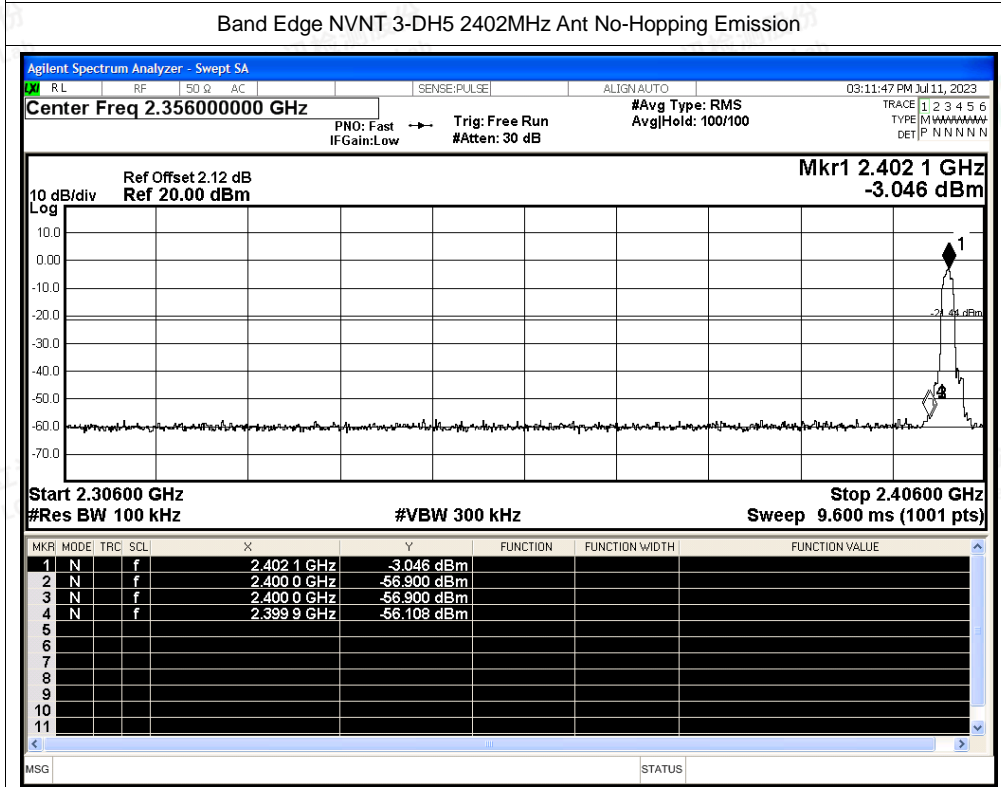
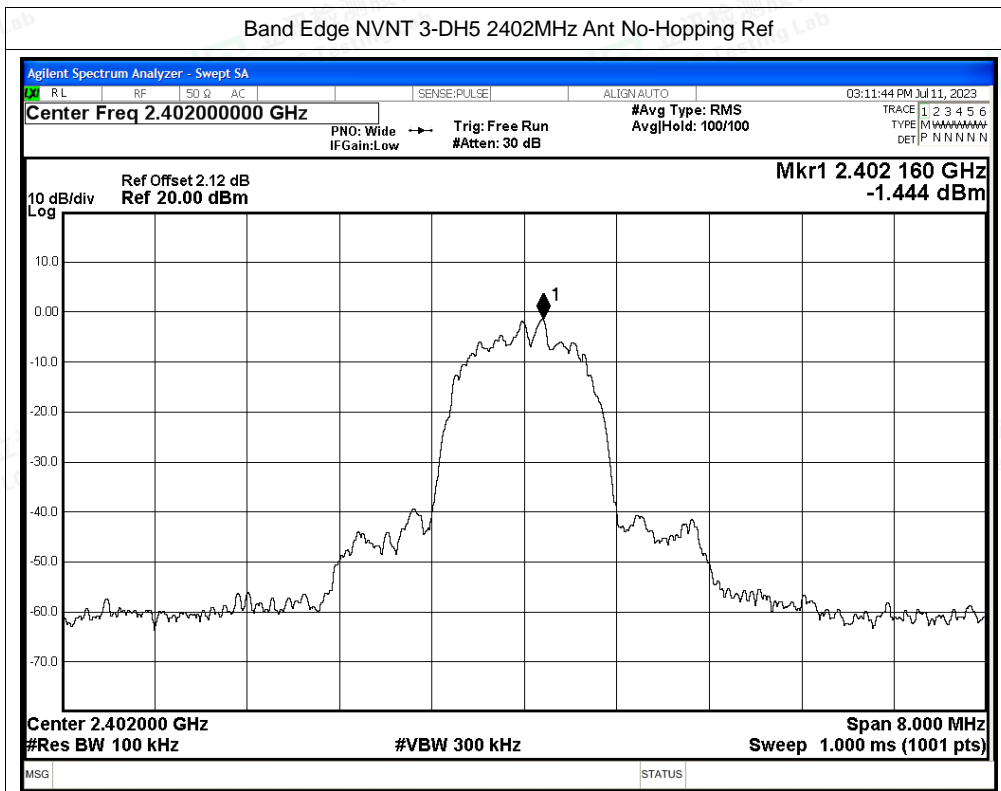


Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Ref



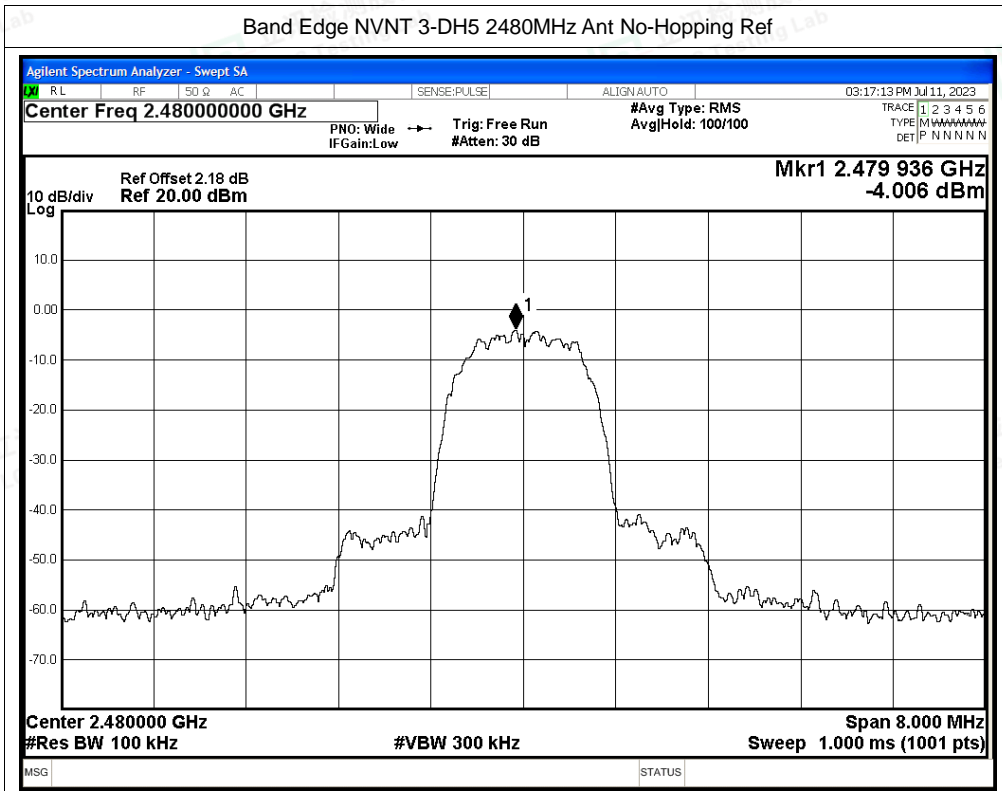
Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Emission



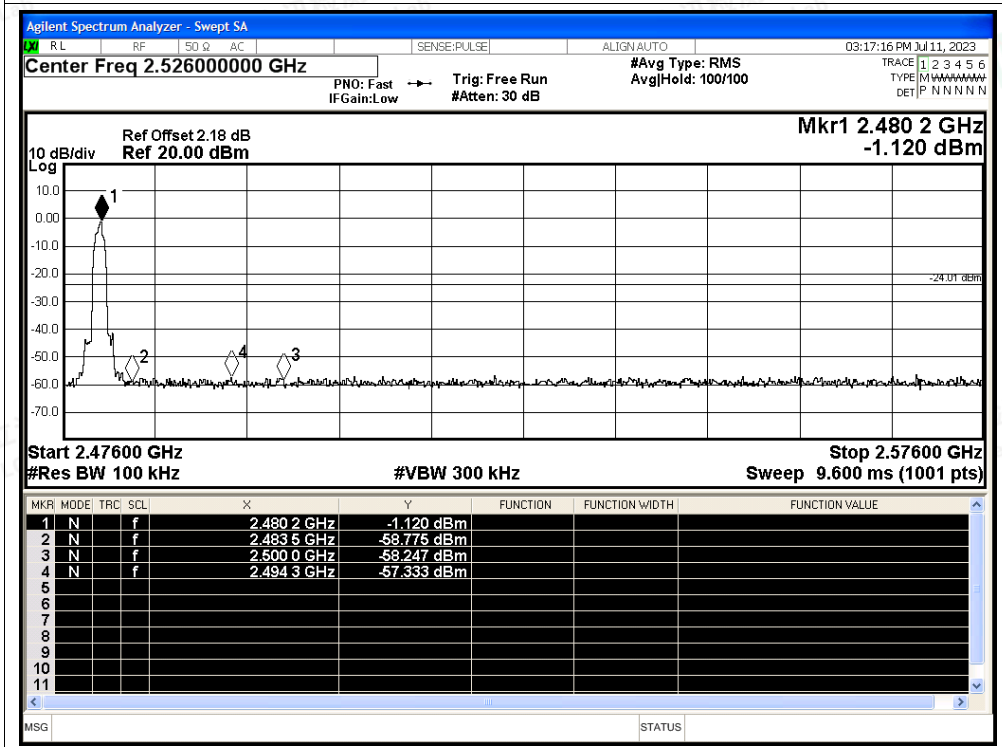




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-55.86	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-56.15	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-54.81	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-55.08	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-53.36	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-53.5	-20	Pass

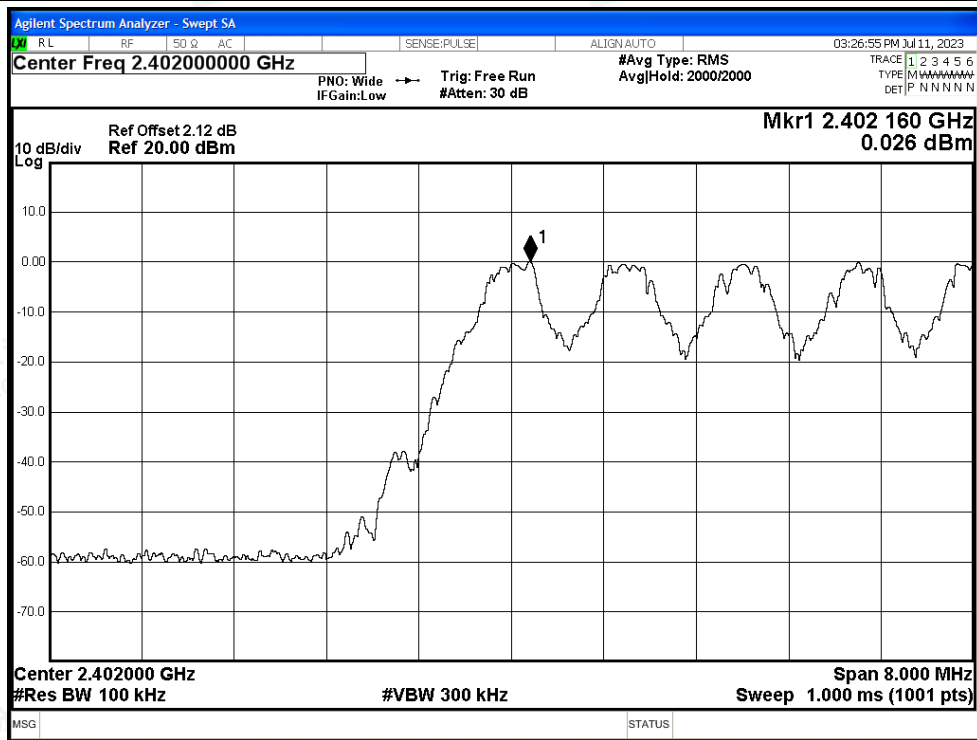


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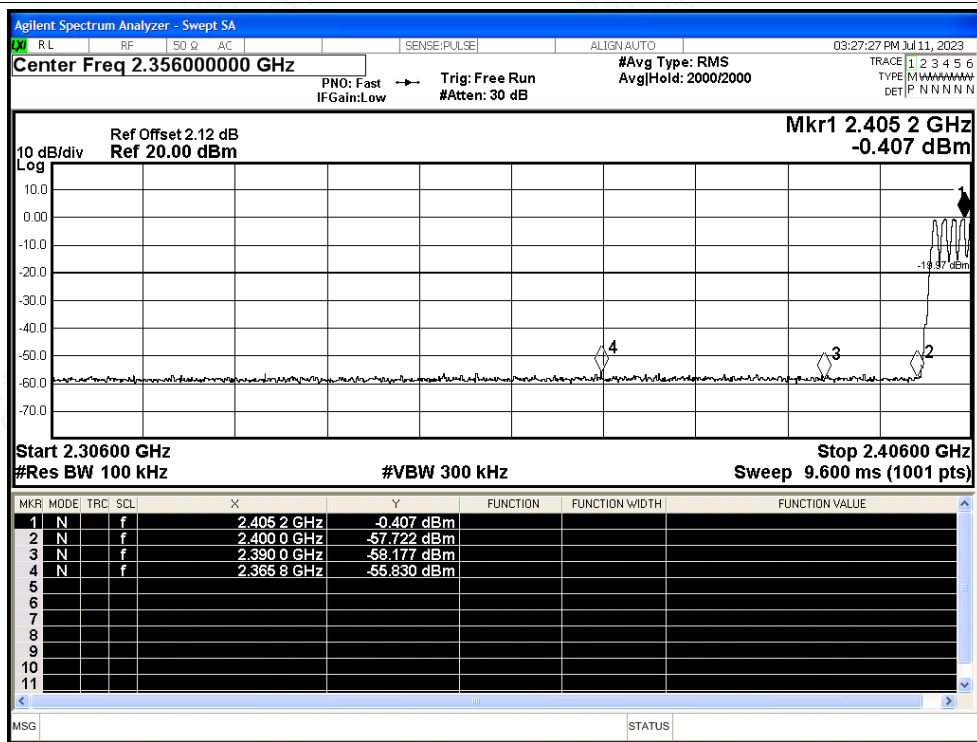


Test Graphs

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

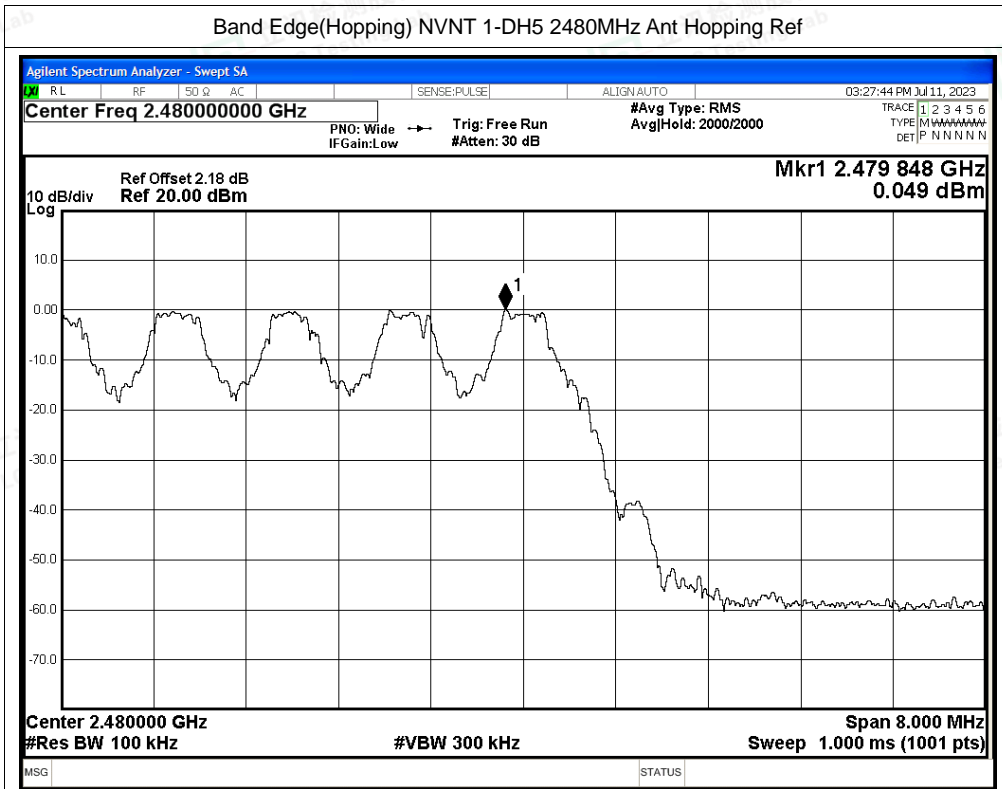


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission

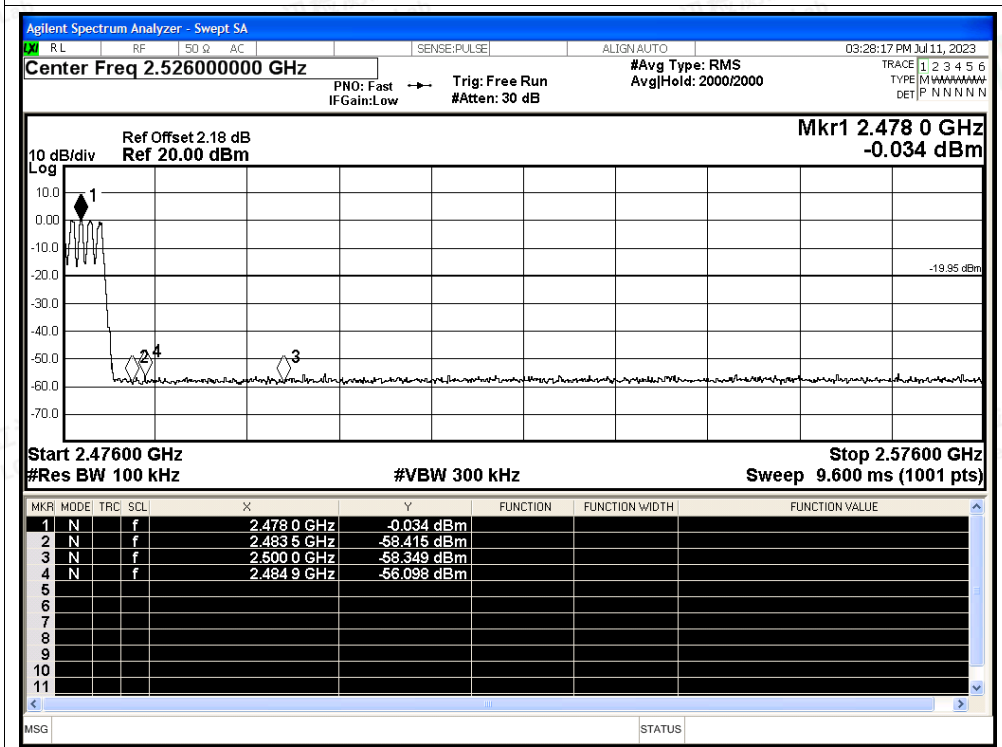




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref

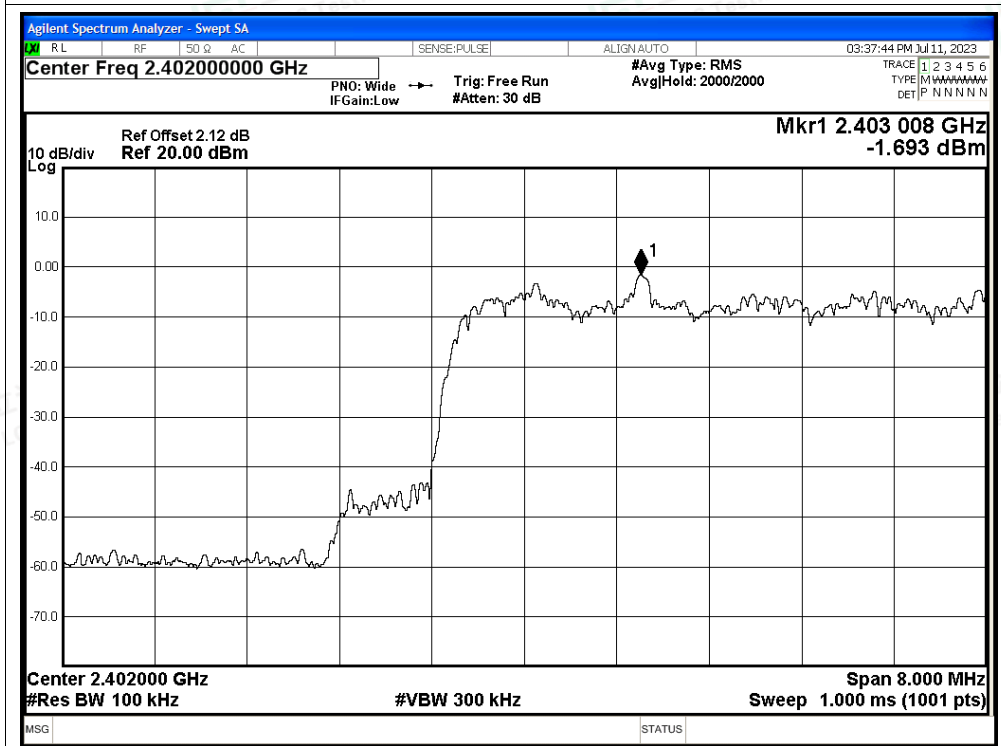


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Emission

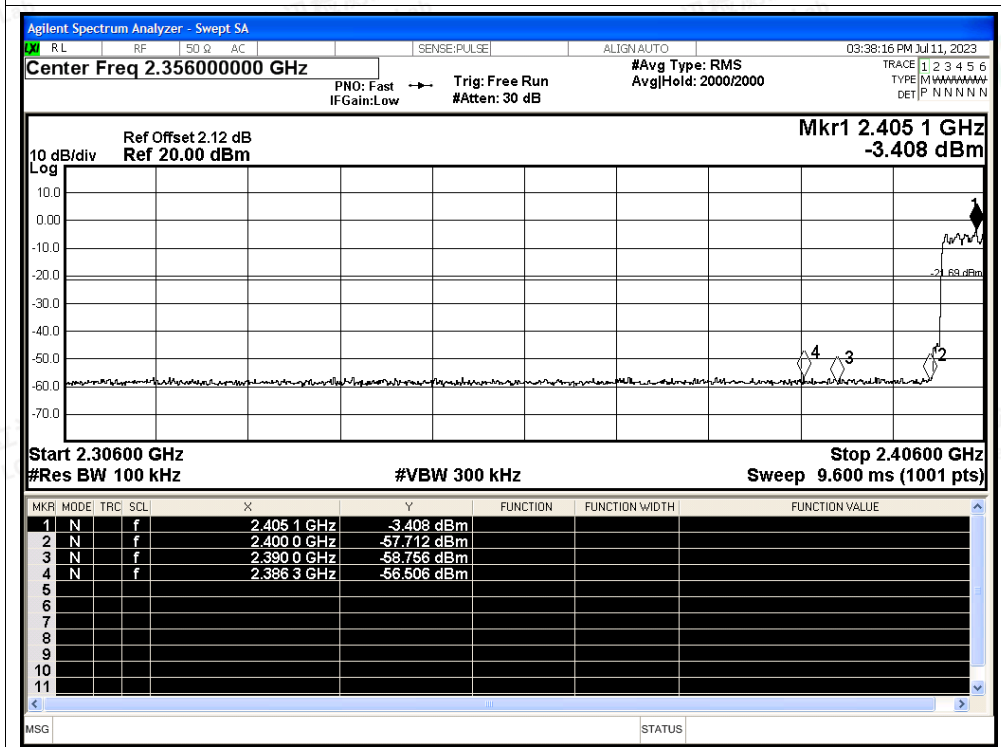




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref

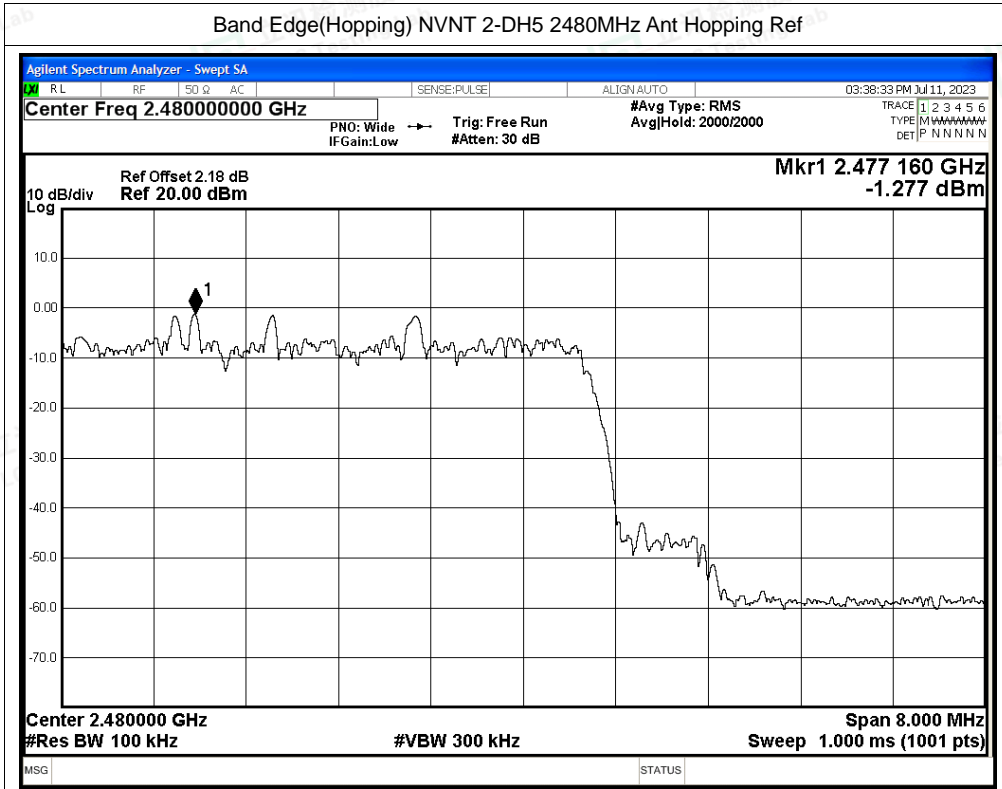


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Emission

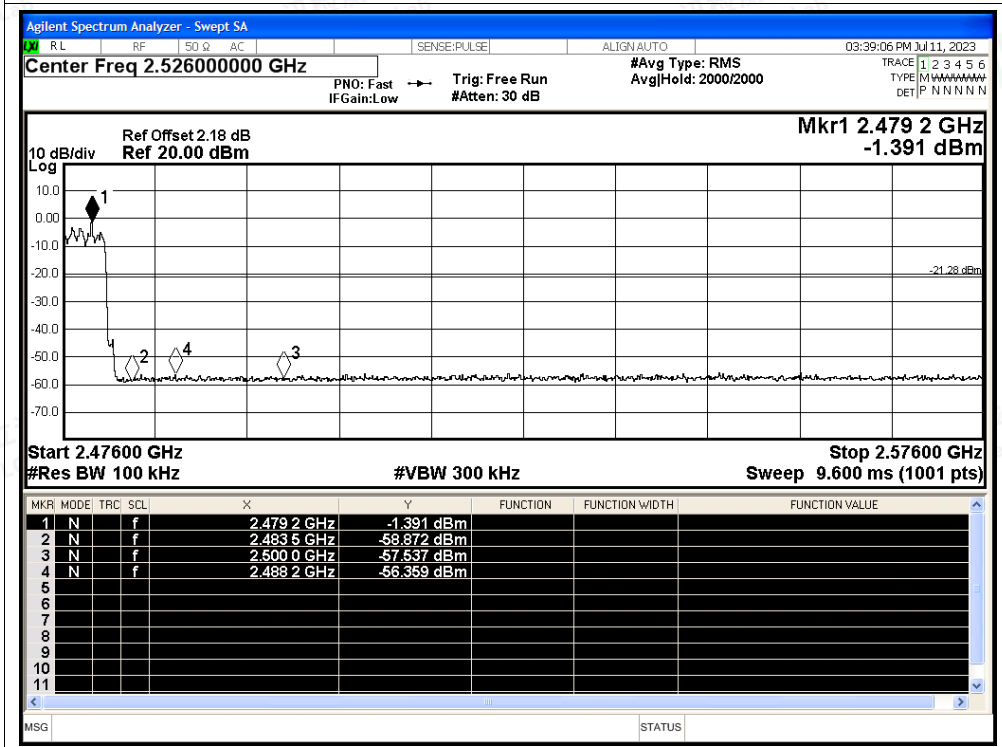




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref

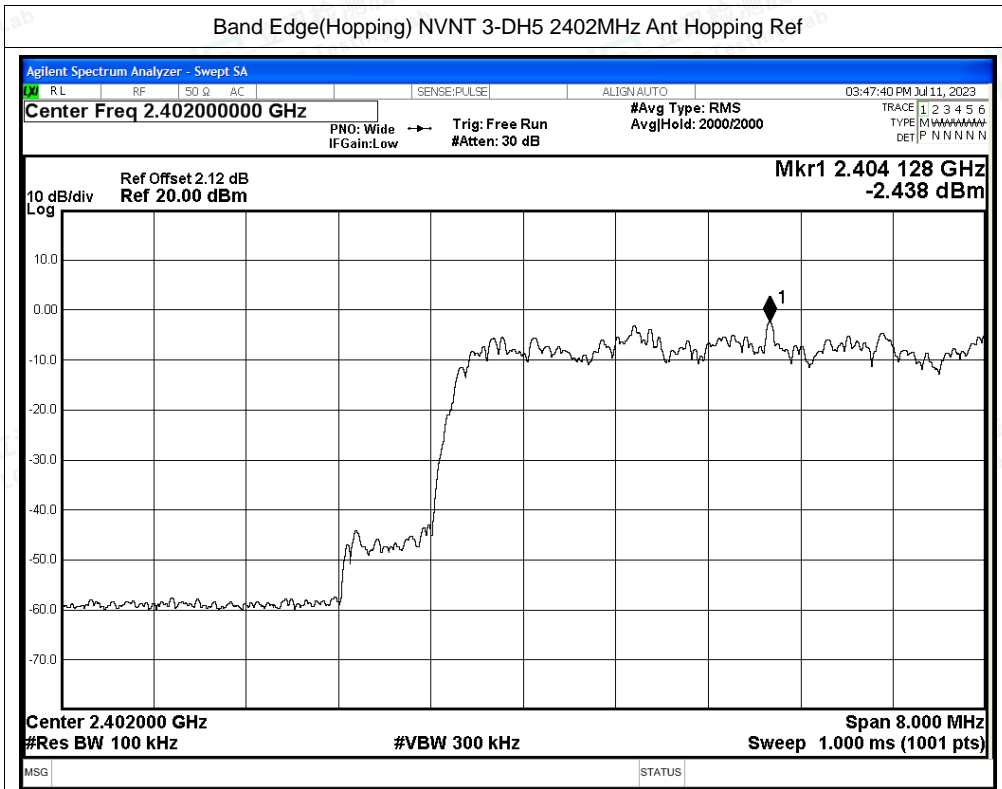


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Emission

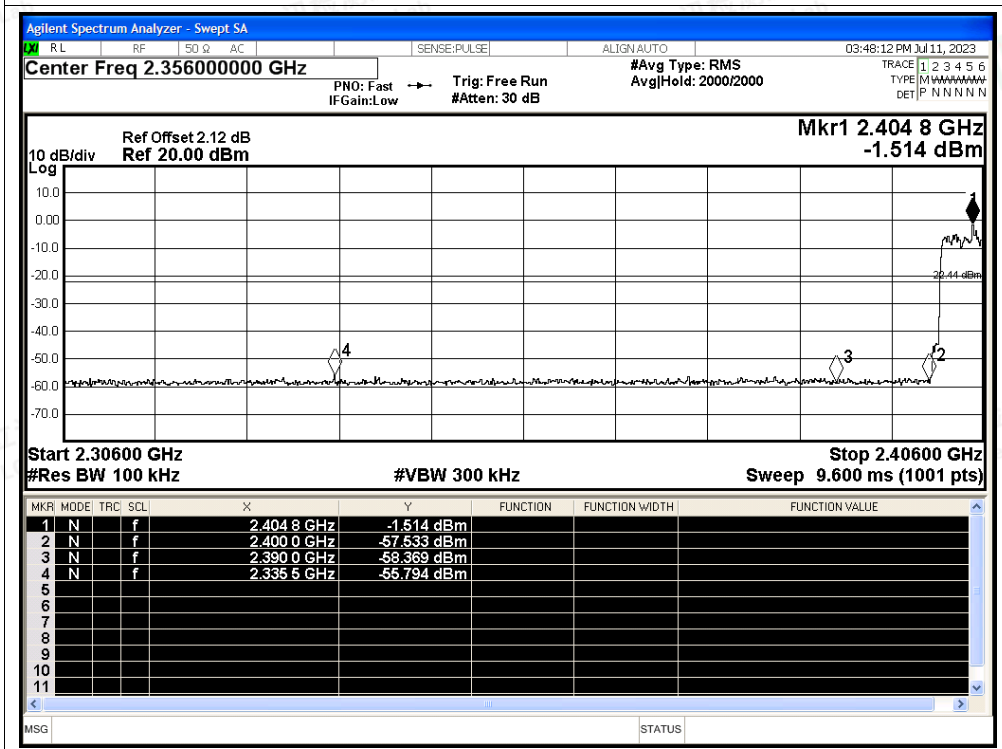




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref

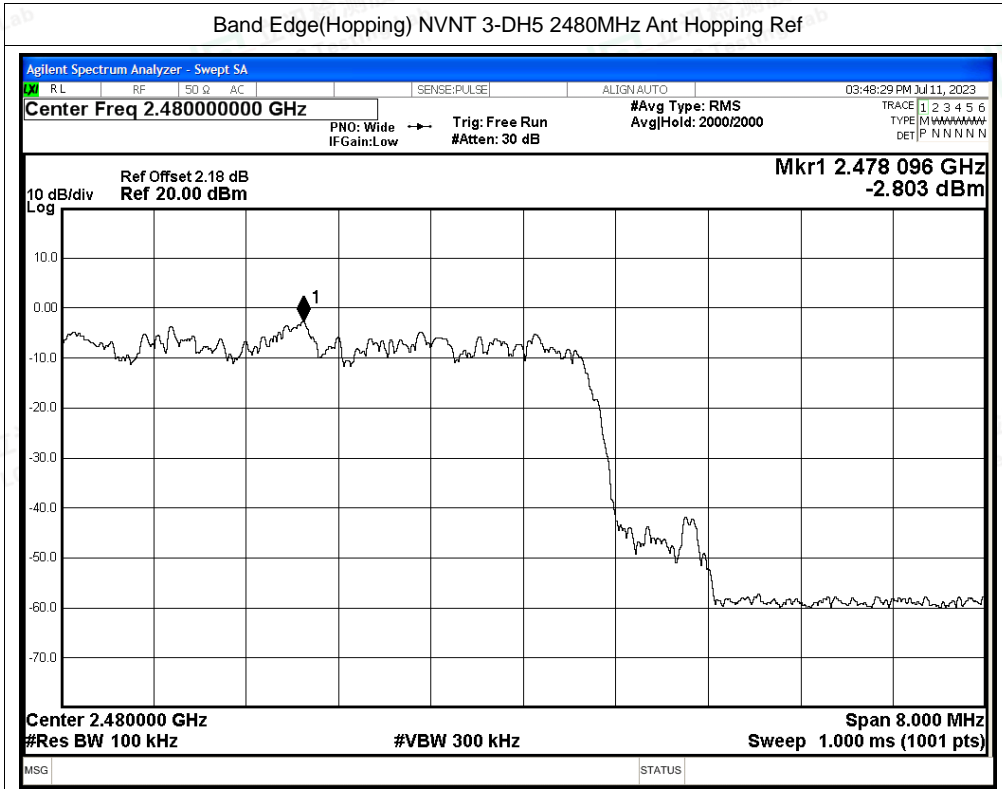


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission

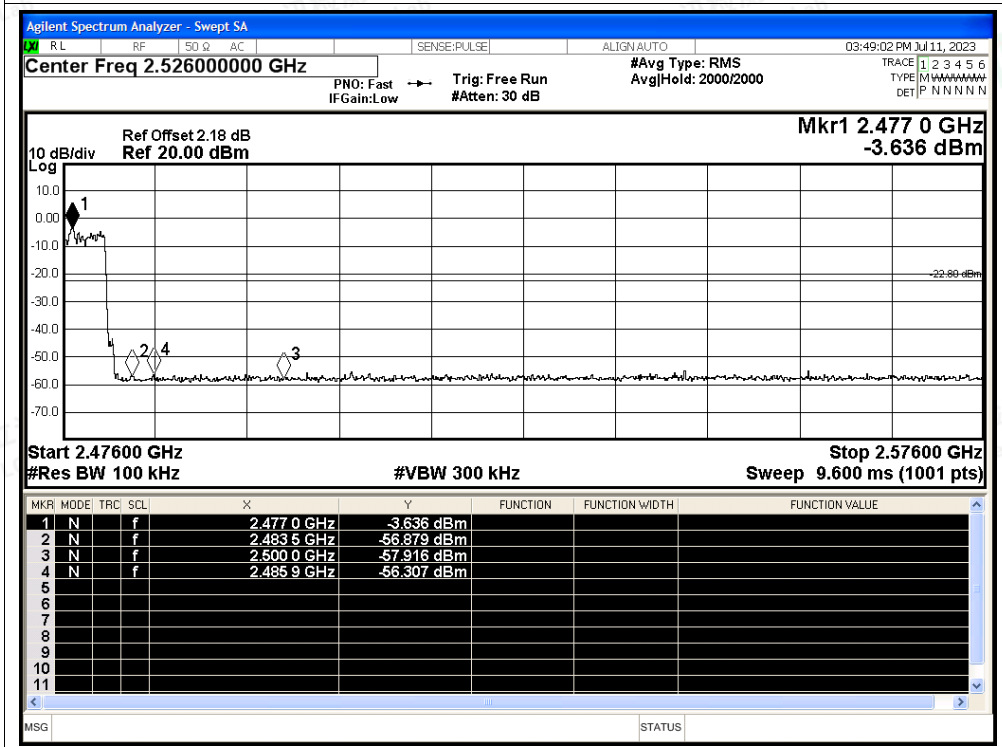




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-54.62	-20	Pass
NVNT	1-DH5	2441	Ant	-54.5	-20	Pass
NVNT	1-DH5	2480	Ant	-54.75	-20	Pass
NVNT	2-DH5	2402	Ant	-53.77	-20	Pass
NVNT	2-DH5	2441	Ant	-53.78	-20	Pass
NVNT	2-DH5	2480	Ant	-52.53	-20	Pass
NVNT	3-DH5	2402	Ant	-53.68	-20	Pass
NVNT	3-DH5	2441	Ant	-54.15	-20	Pass
NVNT	3-DH5	2480	Ant	-54.44	-20	Pass

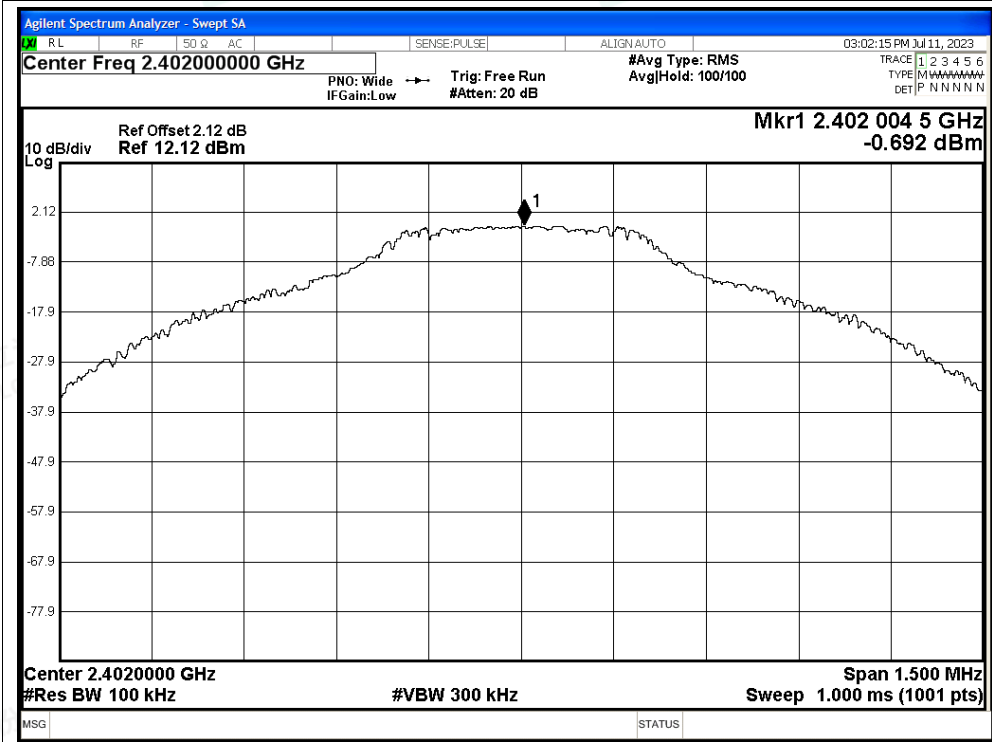


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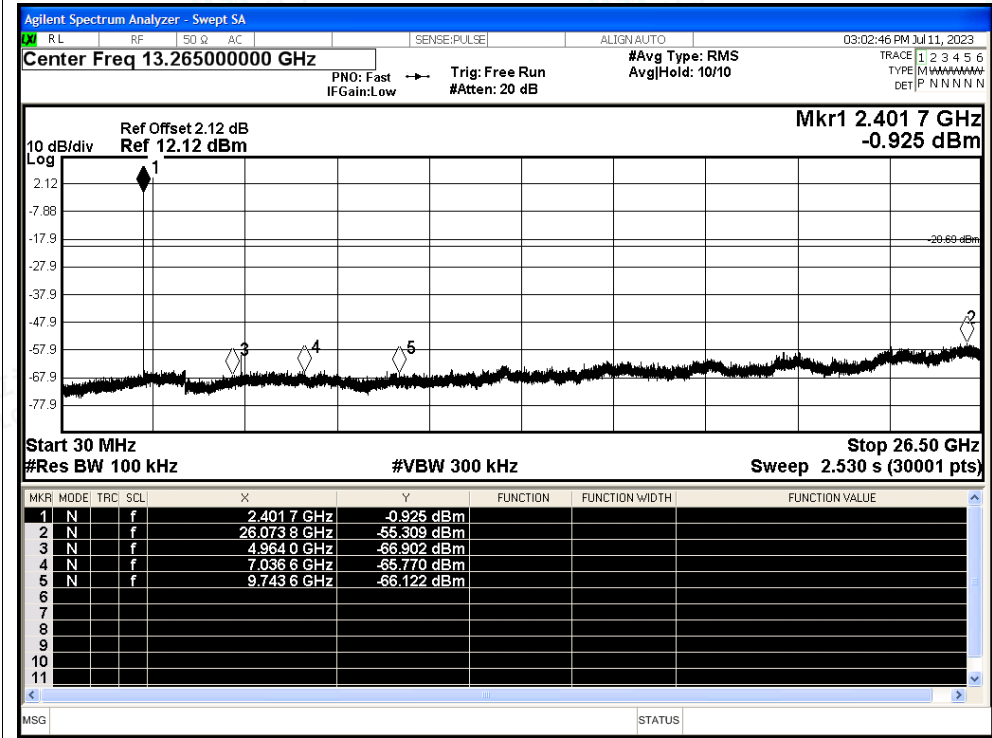


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref

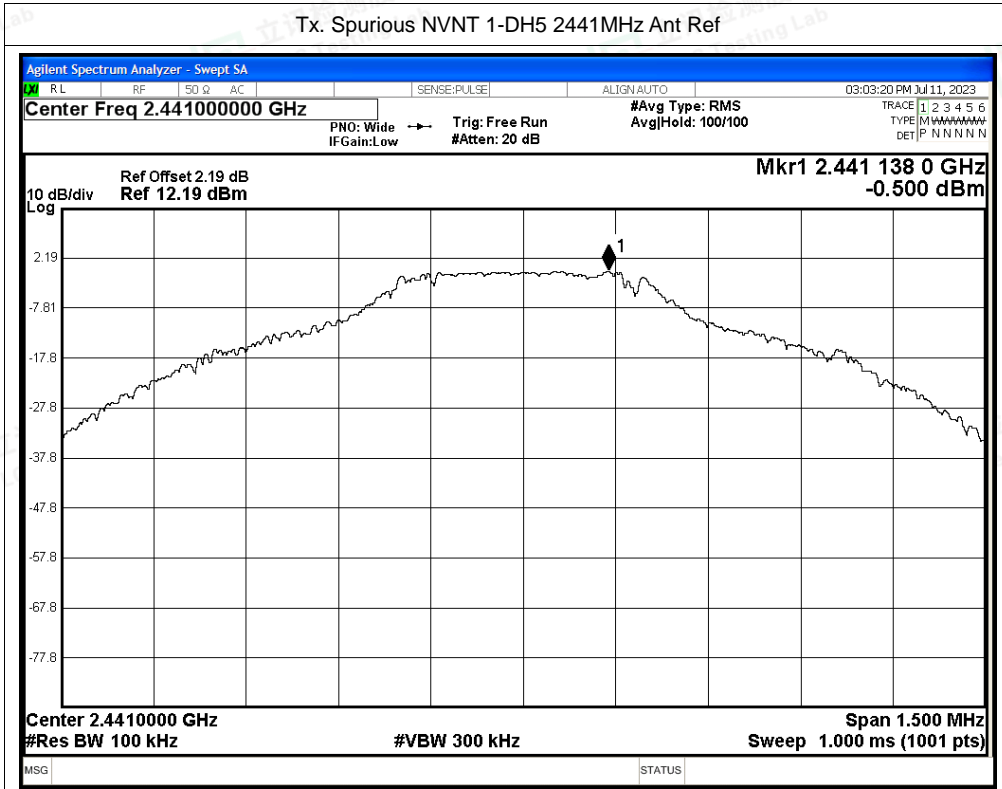


Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

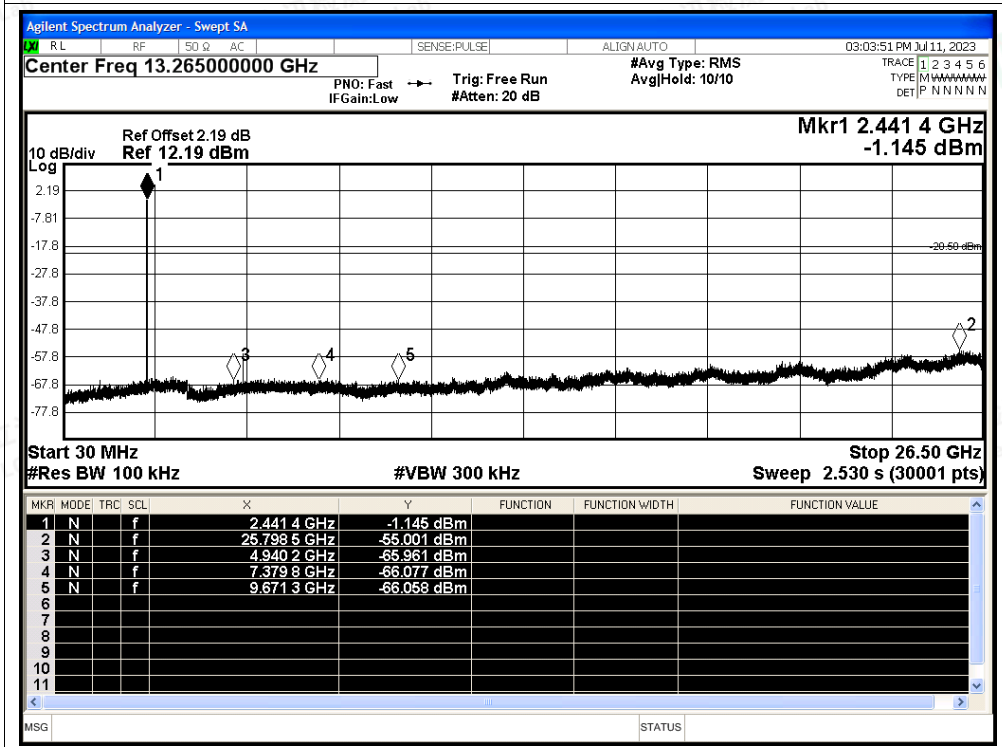




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref

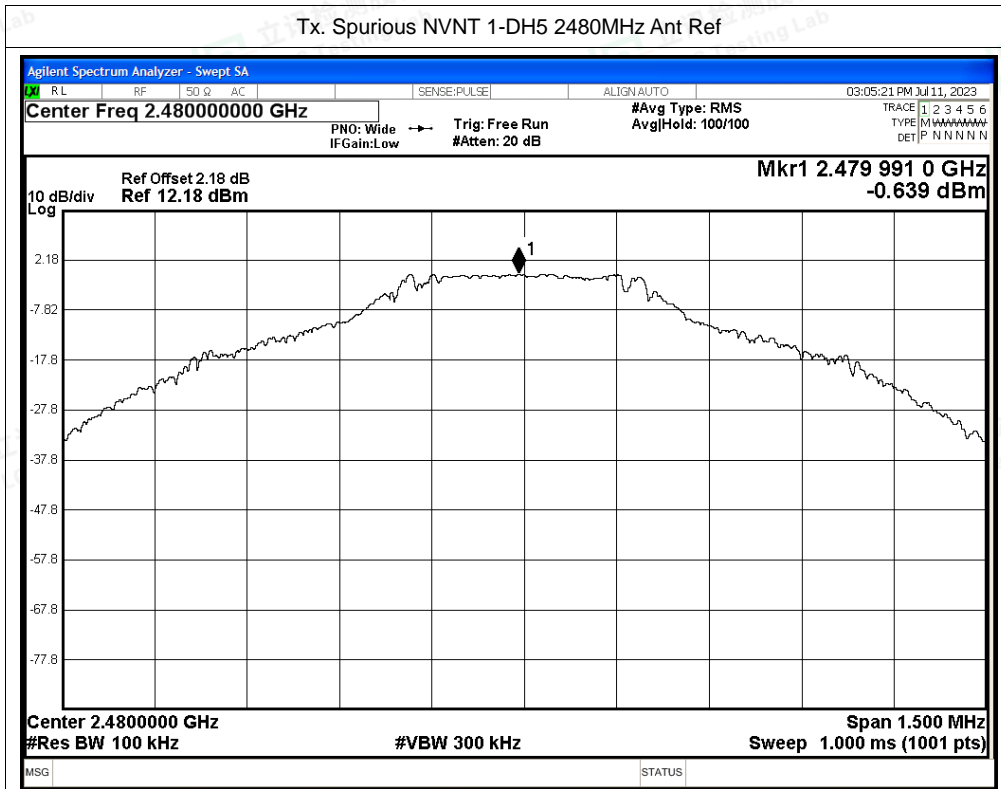


Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission

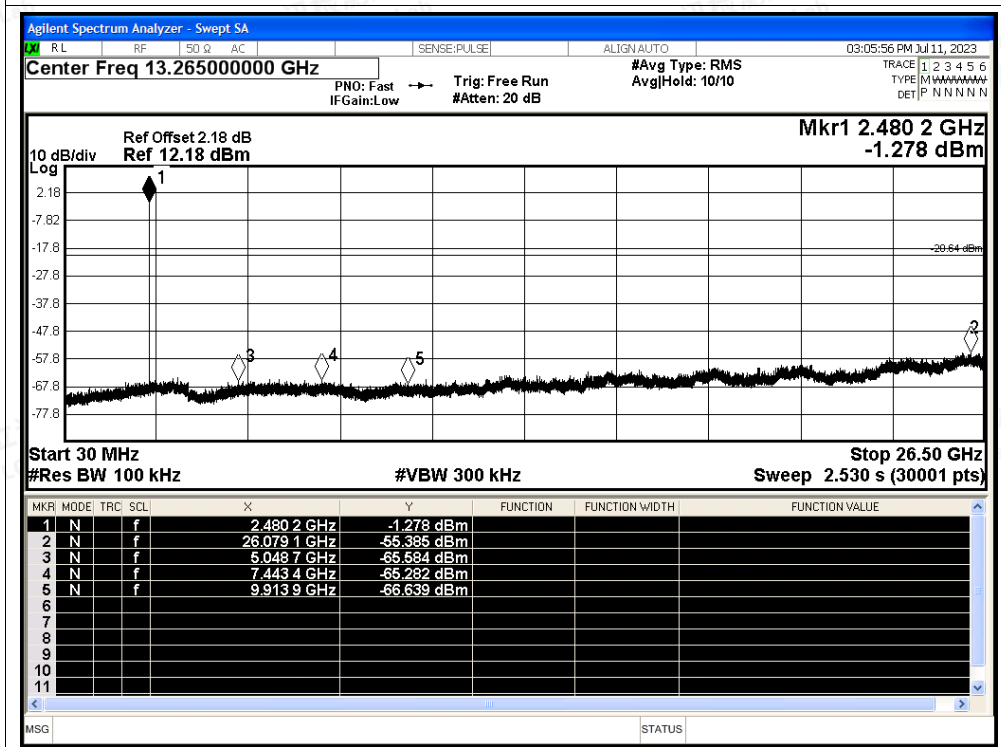




Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref

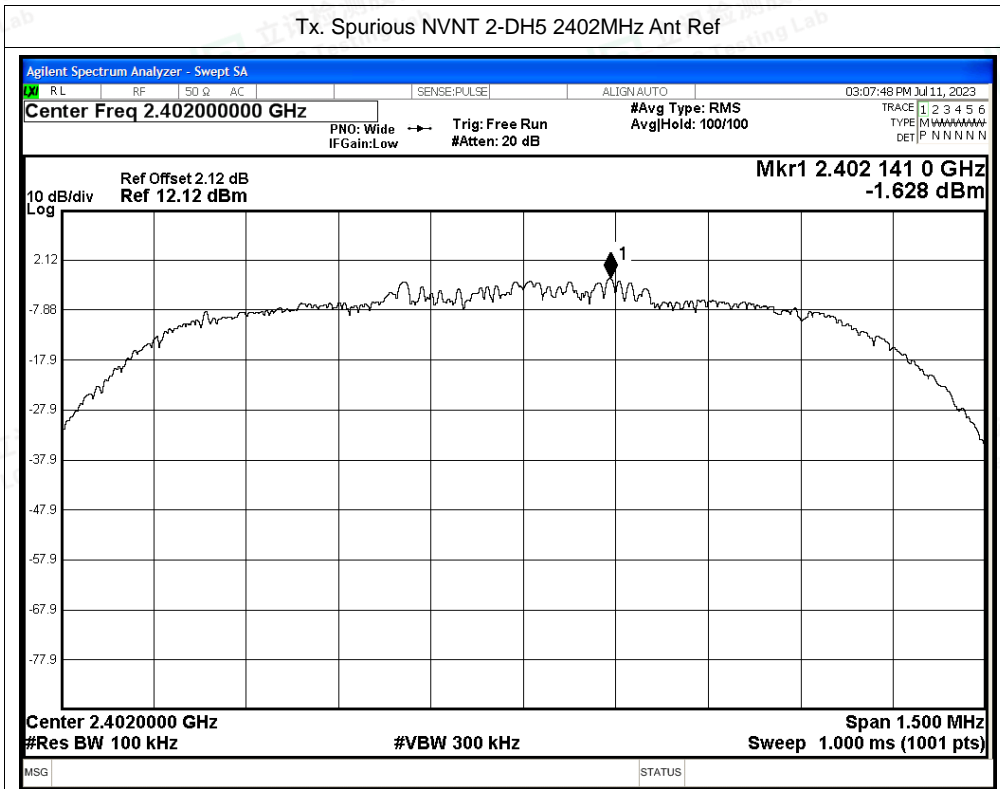


Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission

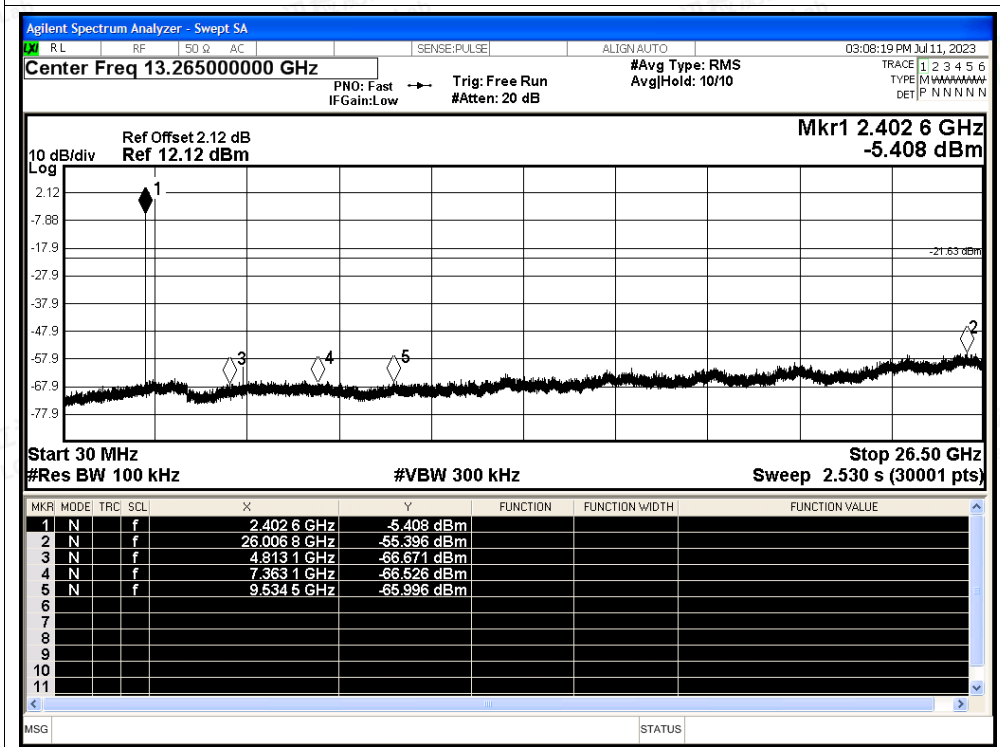




Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref

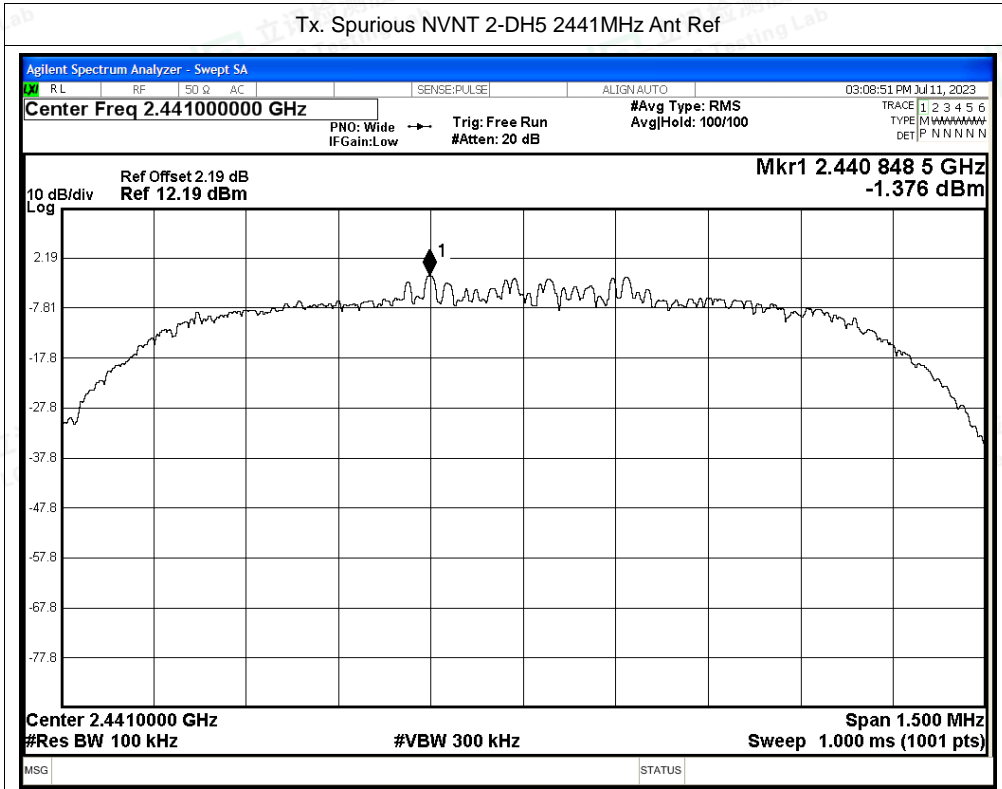


Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission

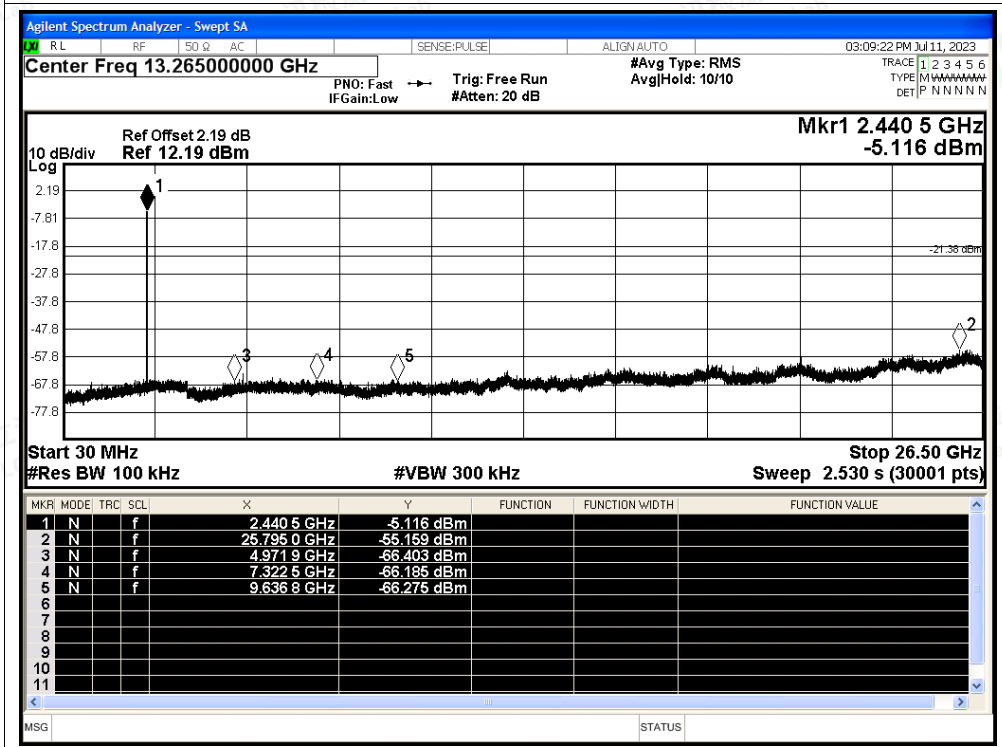




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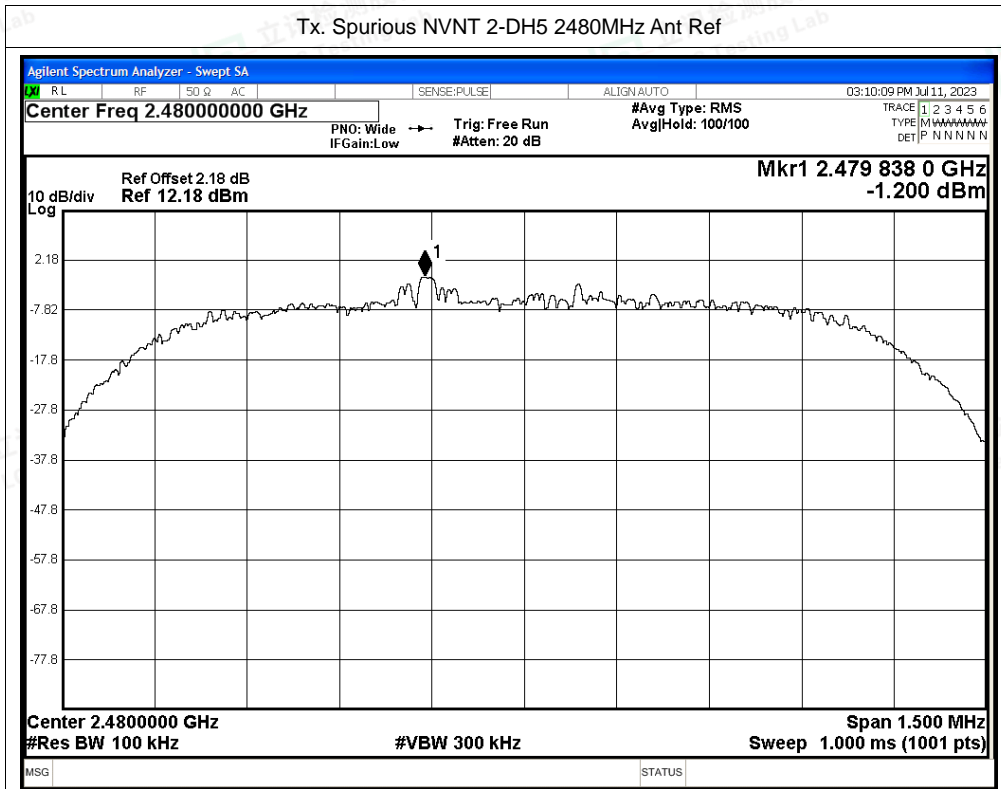


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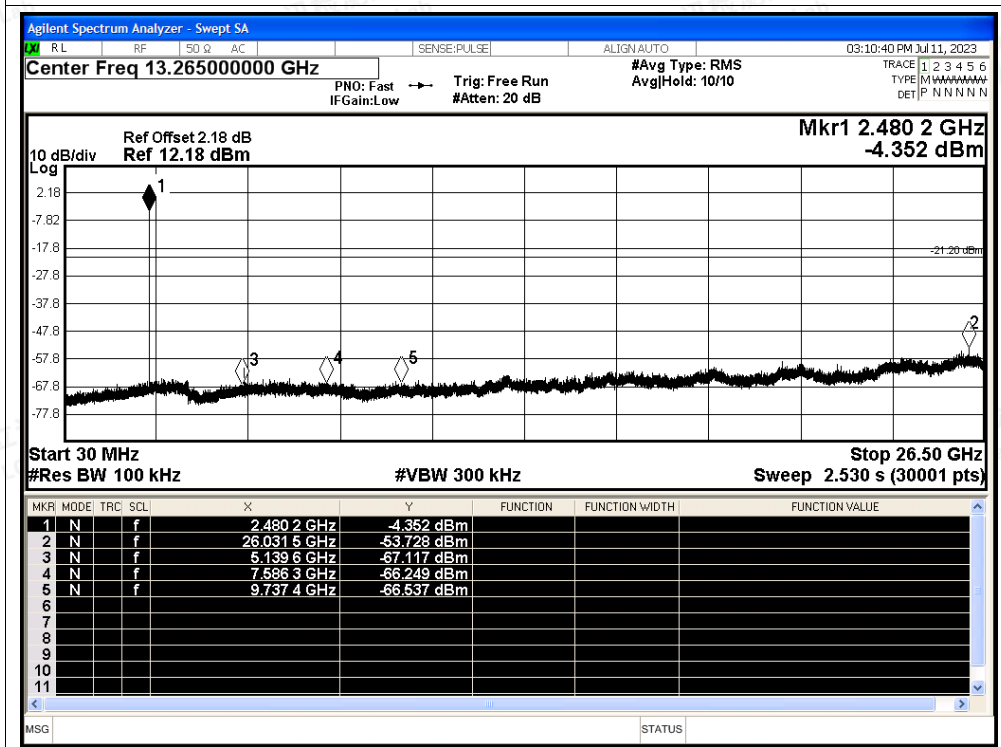




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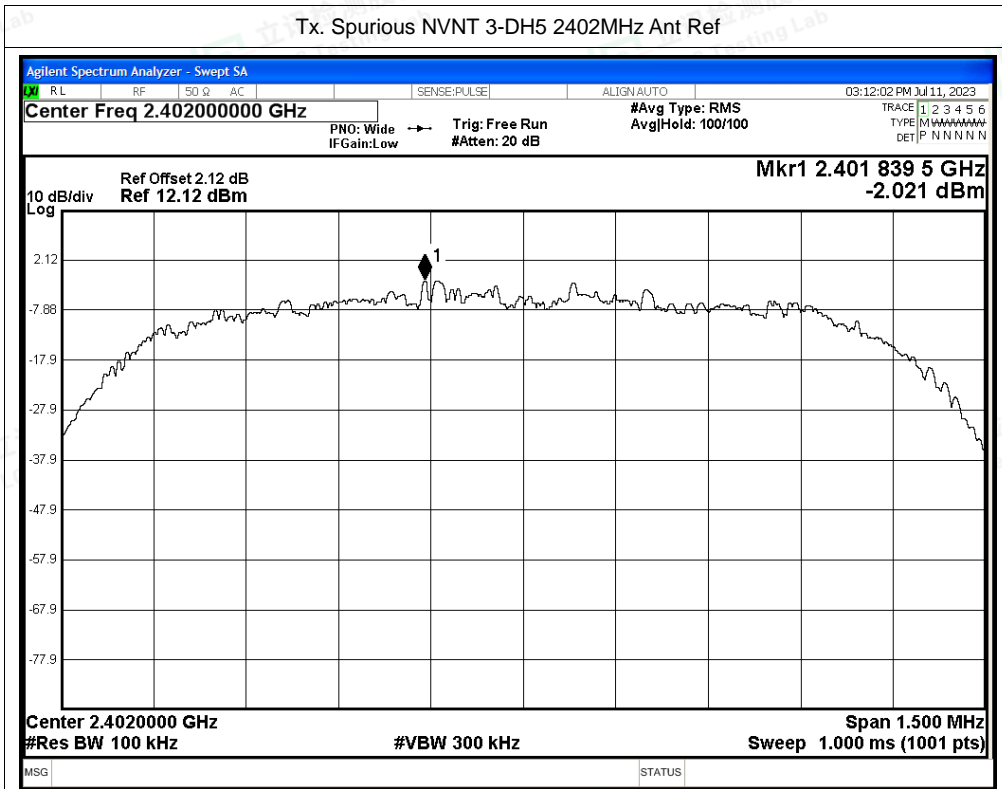


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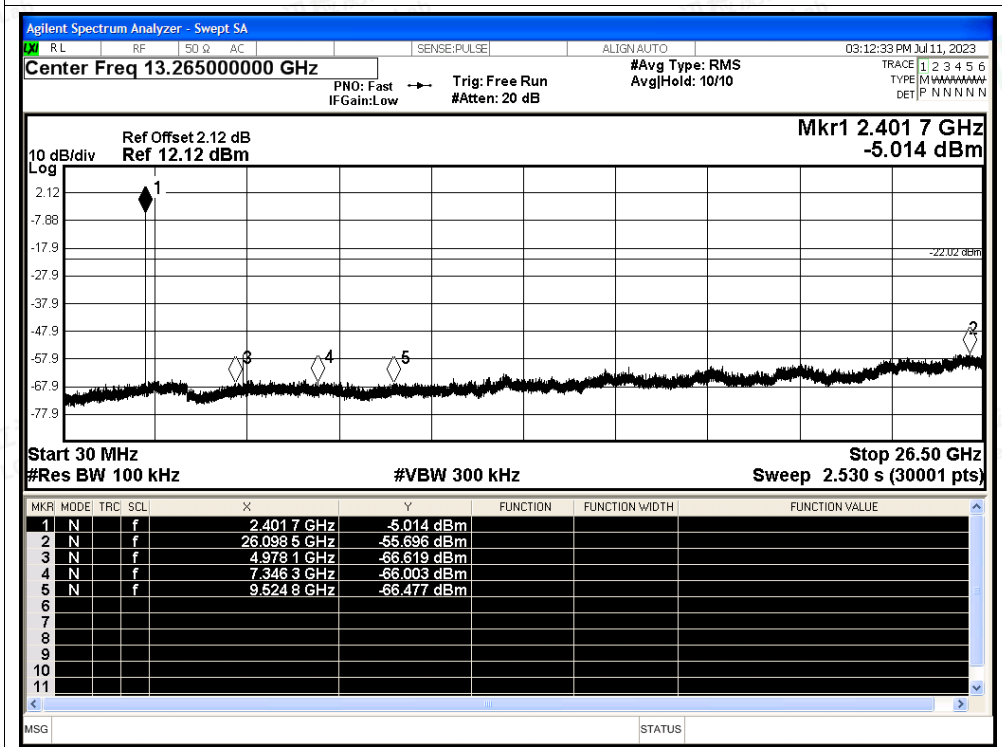




Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref

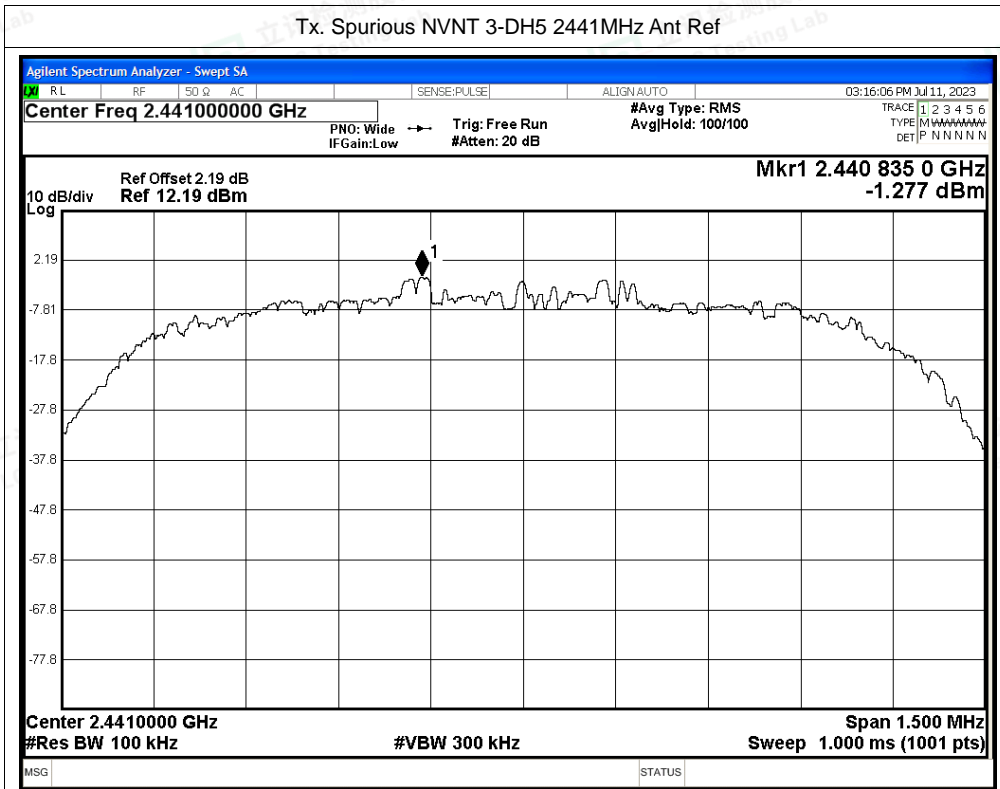


Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission

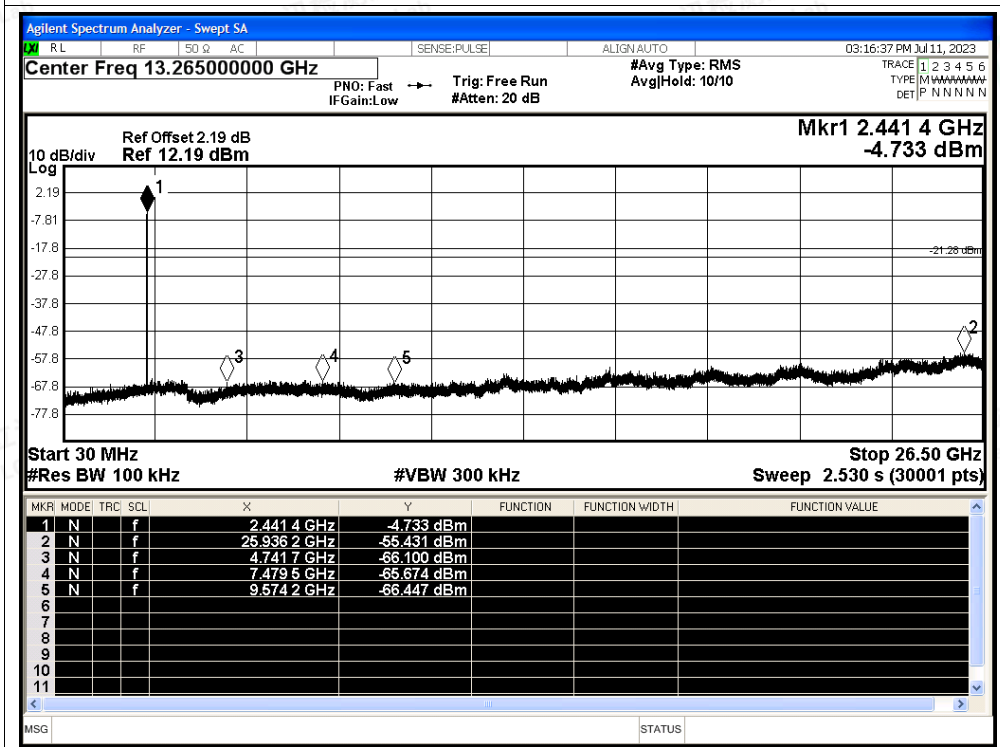




Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref

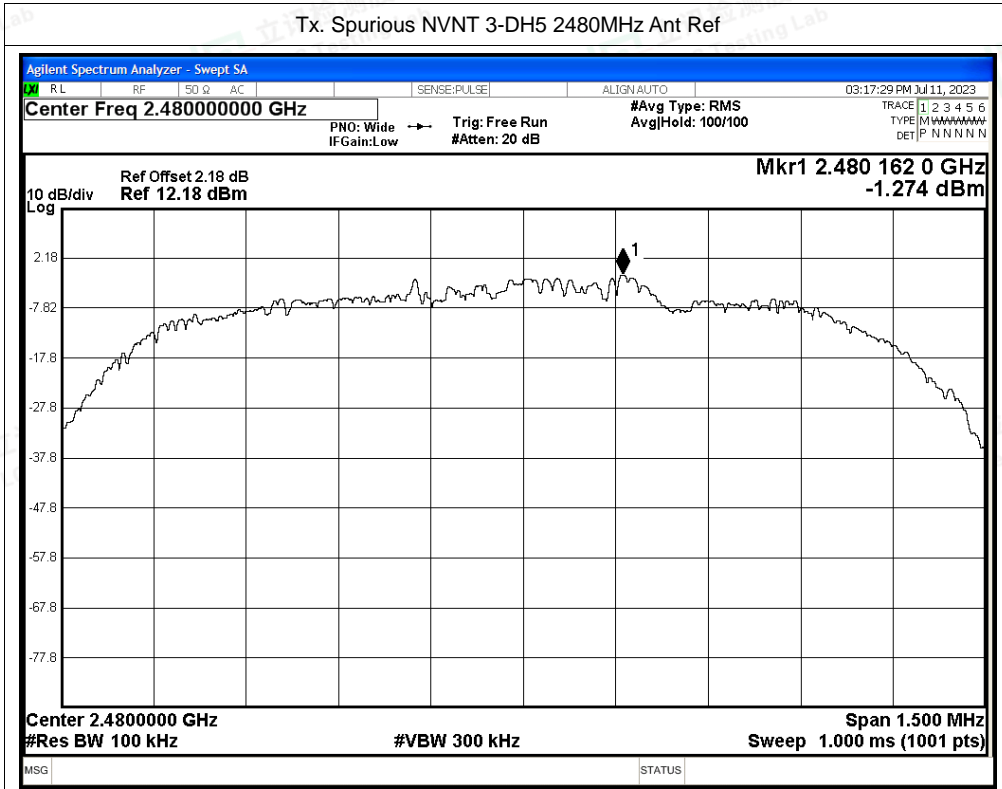


Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission

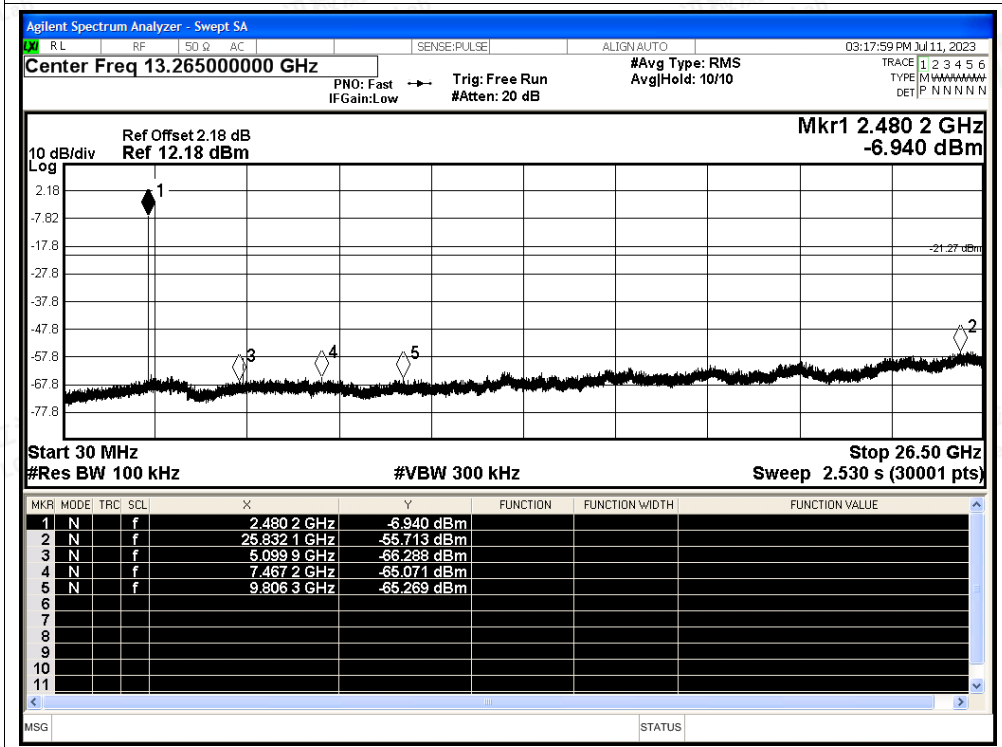




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant 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	Ant	No-Hopping	2310	-50.73	2	46.53	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-58.01	2	39.25	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2320.176	-47.2	2	50.06	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2385.648	-57.56	2	39.7	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-50.57	2	46.69	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-57.57	2	39.69	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-48.77	2	48.49	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-55.75	2	41.51	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2498.704	-47.42	2	49.84	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.512	-55.75	2	41.51	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.33	2	46.93	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-57.35	2	39.91	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-51.92	2	45.34	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-58.11	2	39.15	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2349.264	-47.38	2	49.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2385.648	-57.55	2	39.71	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.75	2	46.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-57.79	2	39.47	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-50.24	2	47.02	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-55.74	2	41.52	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2499.712	-46.41	2	50.85	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.512	-55.74	2	41.52	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-50.67	2	46.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-57.44	2	39.82	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-51.4	2	45.86	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-58.11	2	39.15	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2331.504	-46.96	2	50.3	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2372.208	-57.58	2	39.68	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-50.43	2	46.83	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-57.75	2	39.51	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-49.87	2	47.39	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-55.89	2	41.37	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2494.888	-46.73	2	50.53	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.512	-55.89	2	41.37	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-50.65	2	46.61	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.37	2	39.89	Average	54	Pass

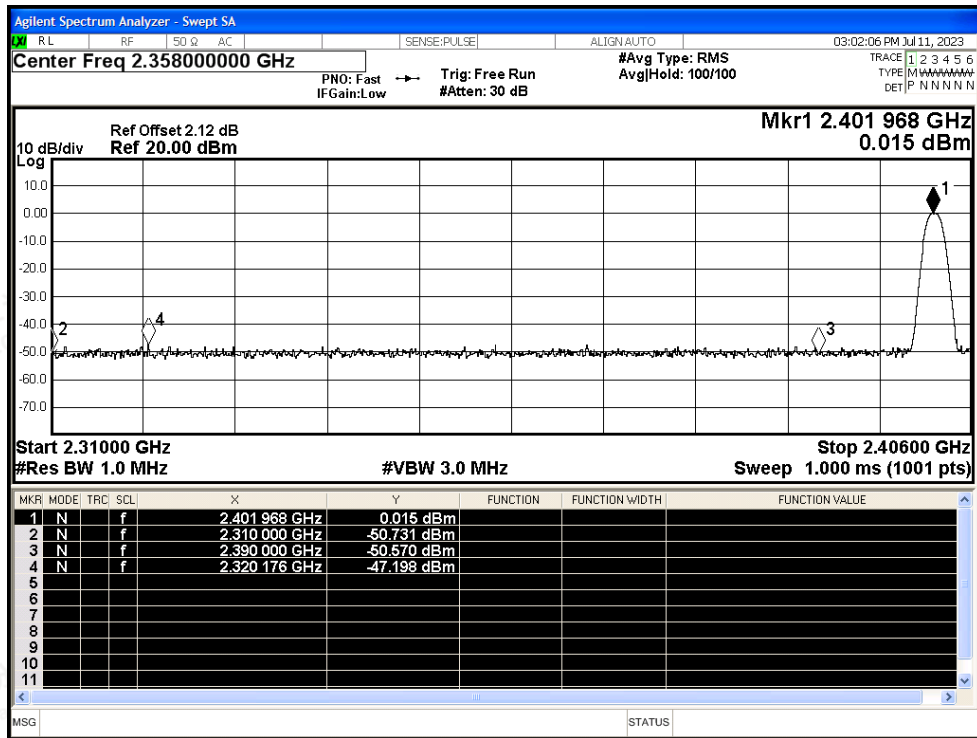


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 Scan code to check authenticity

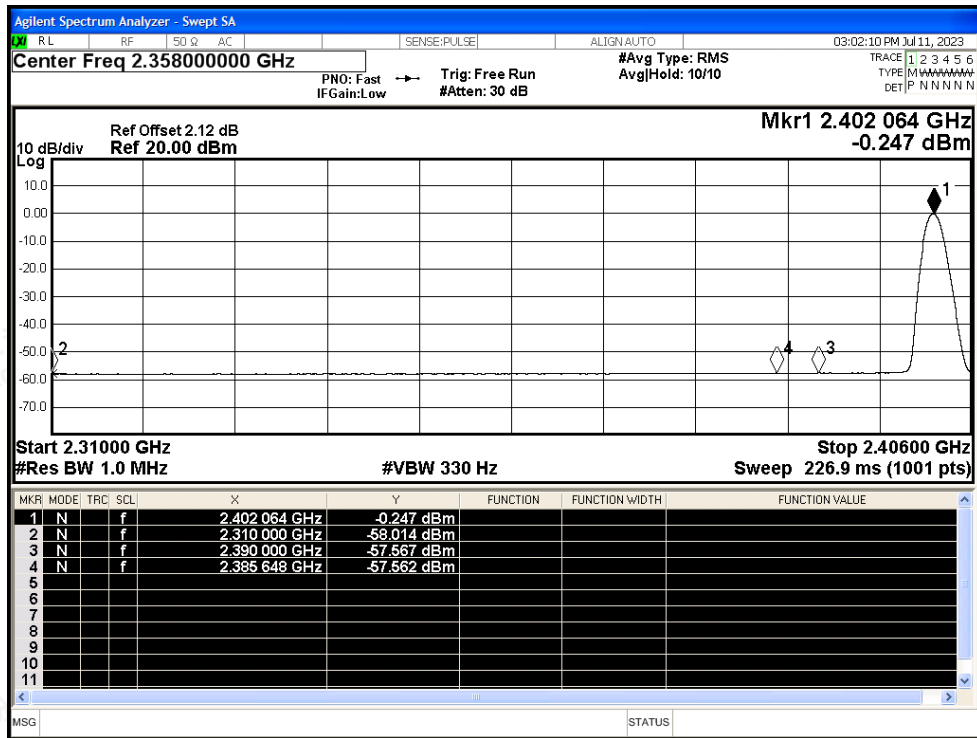


Test Graphs

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

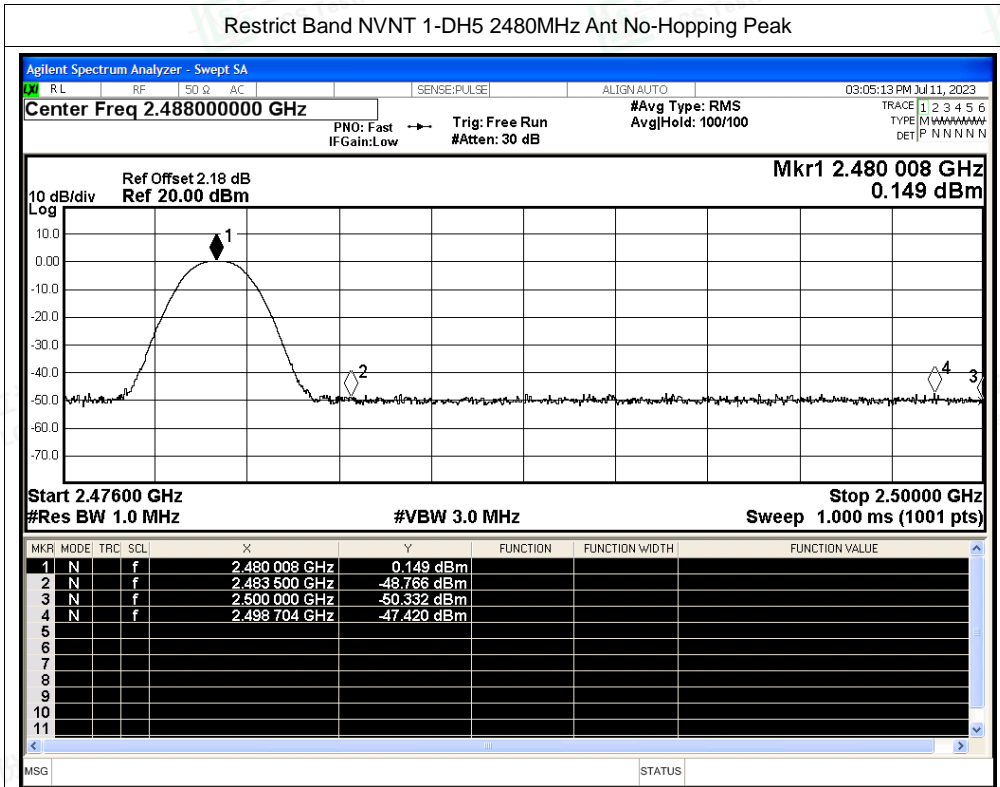


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

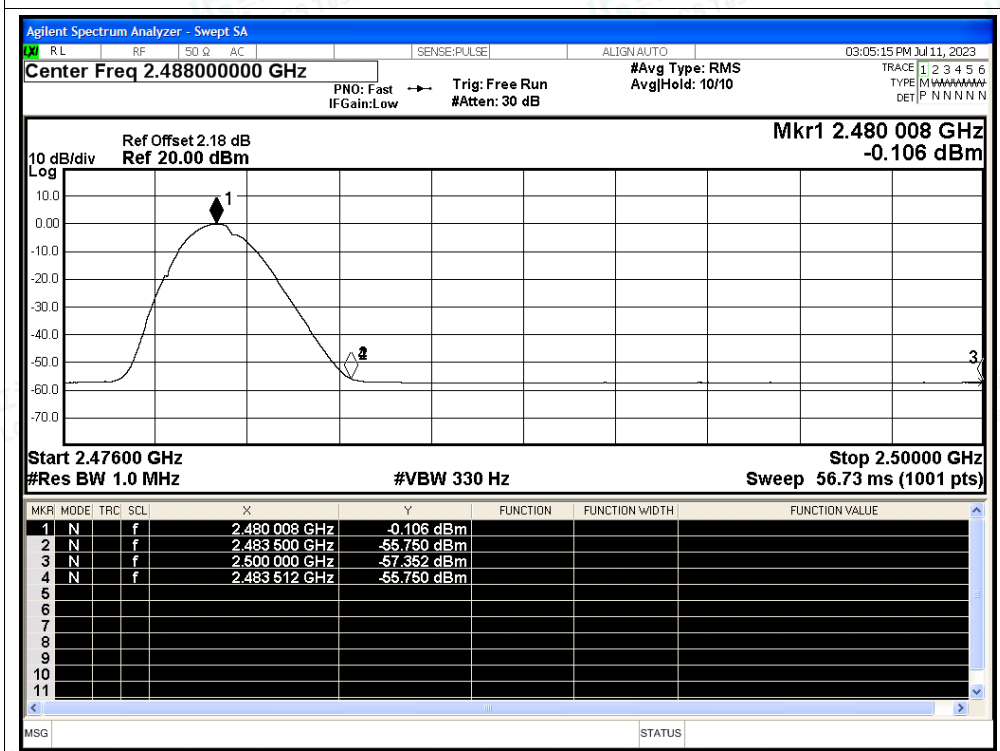




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak

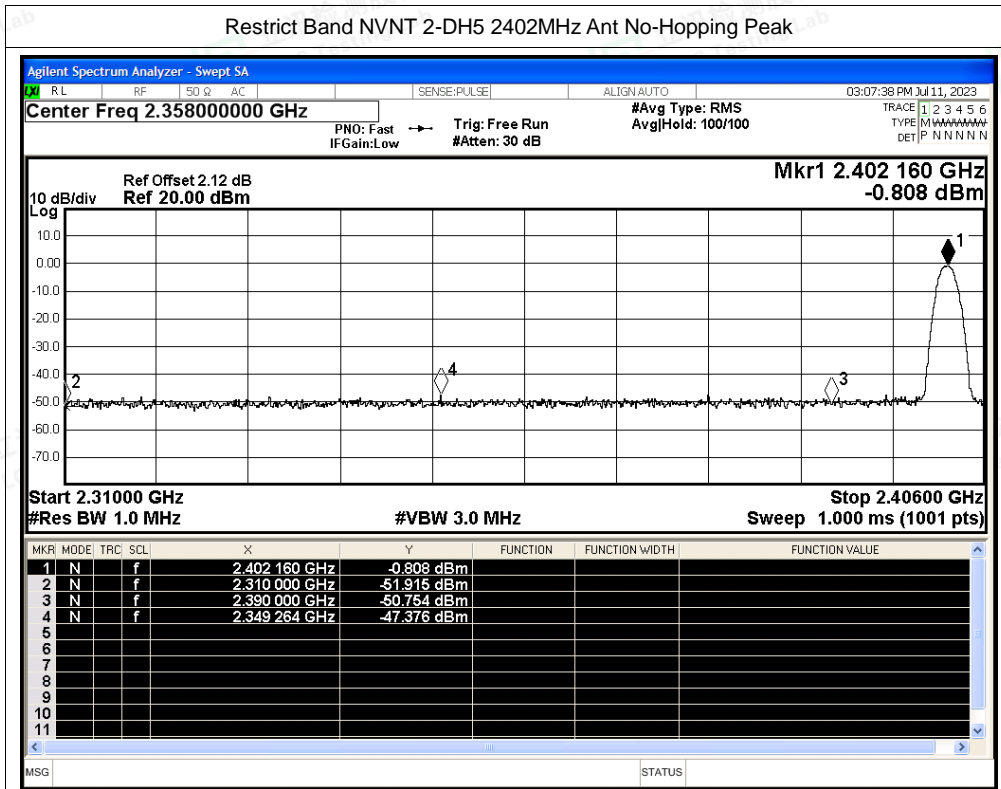


Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Average

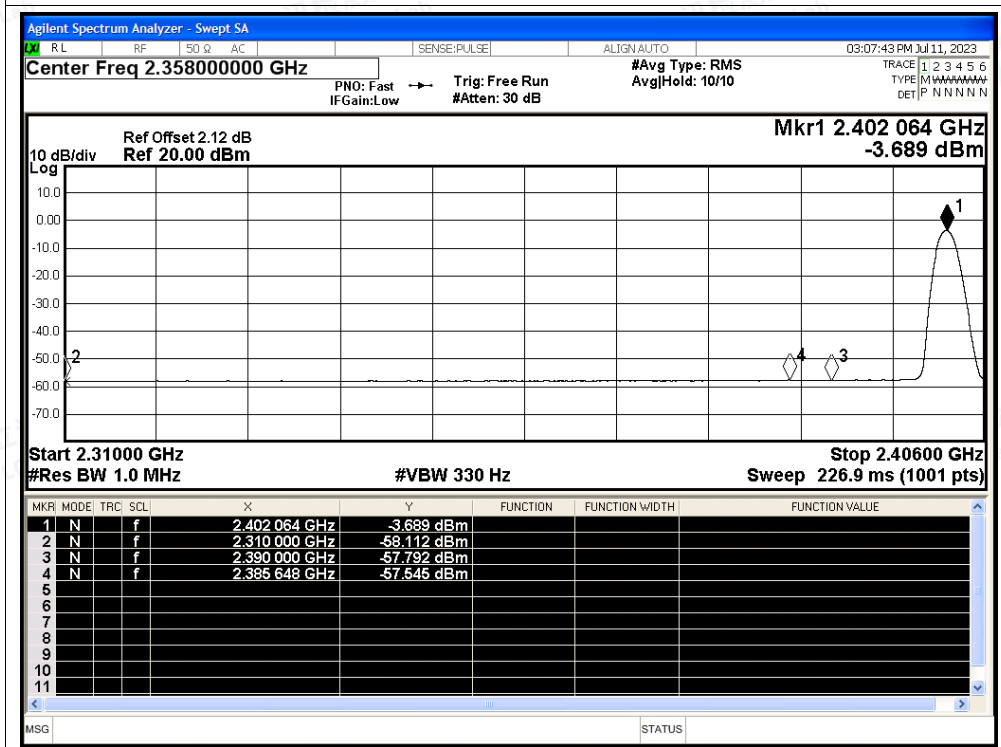




Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

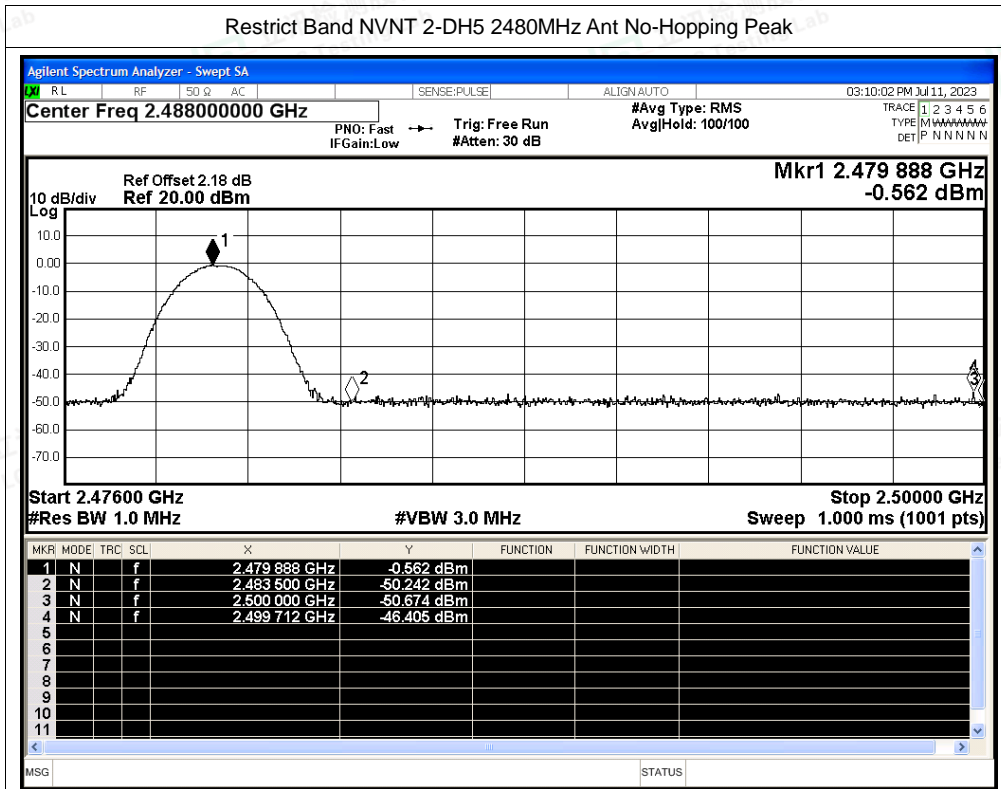


Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Average

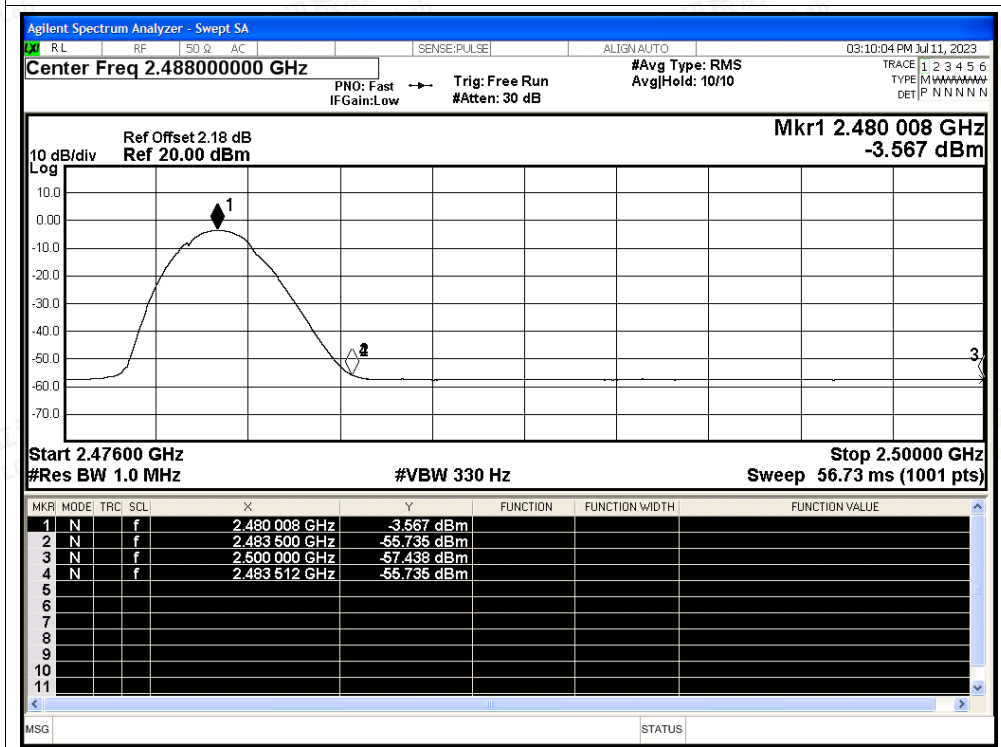




Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak

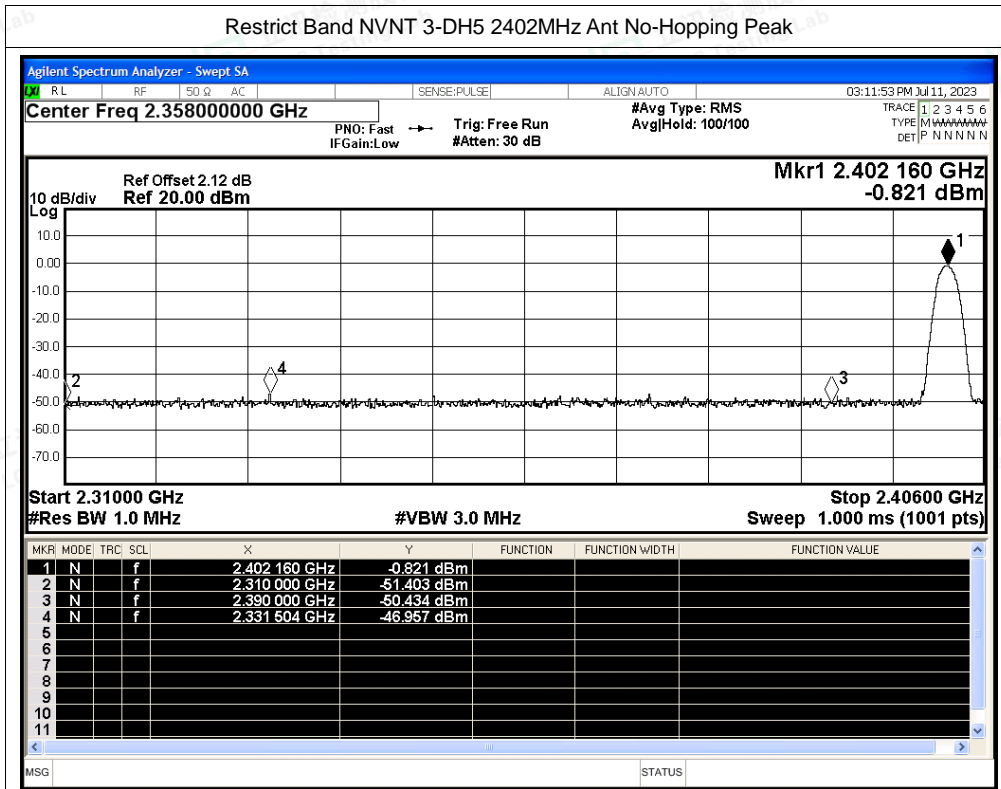


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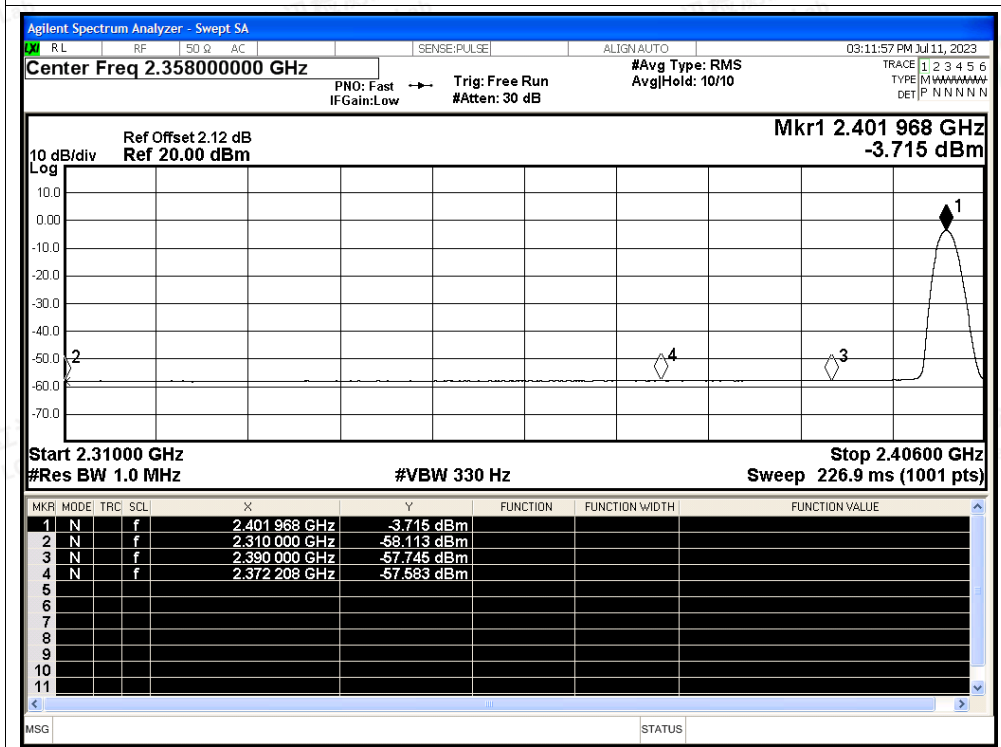




Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak

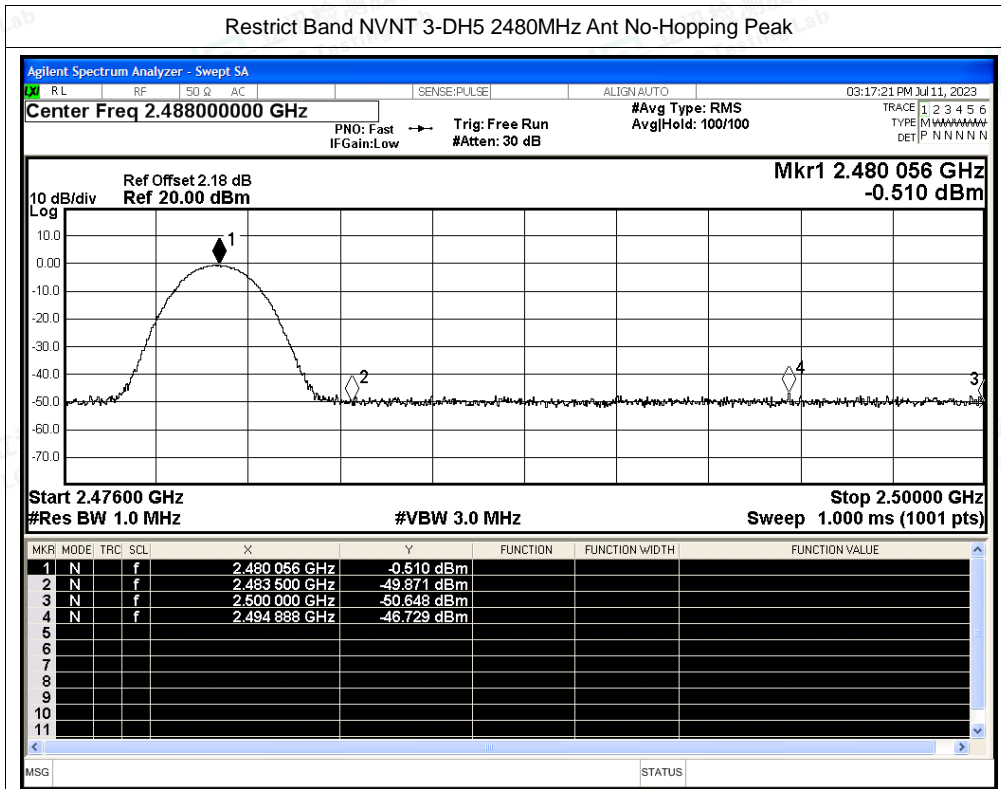


Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Average





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



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

