



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart Watch

Test Model: LW77

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	Ant1	0.959	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.957	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.959	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.365	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.368	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.367	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.351	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.348	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.347	N/A	Pass

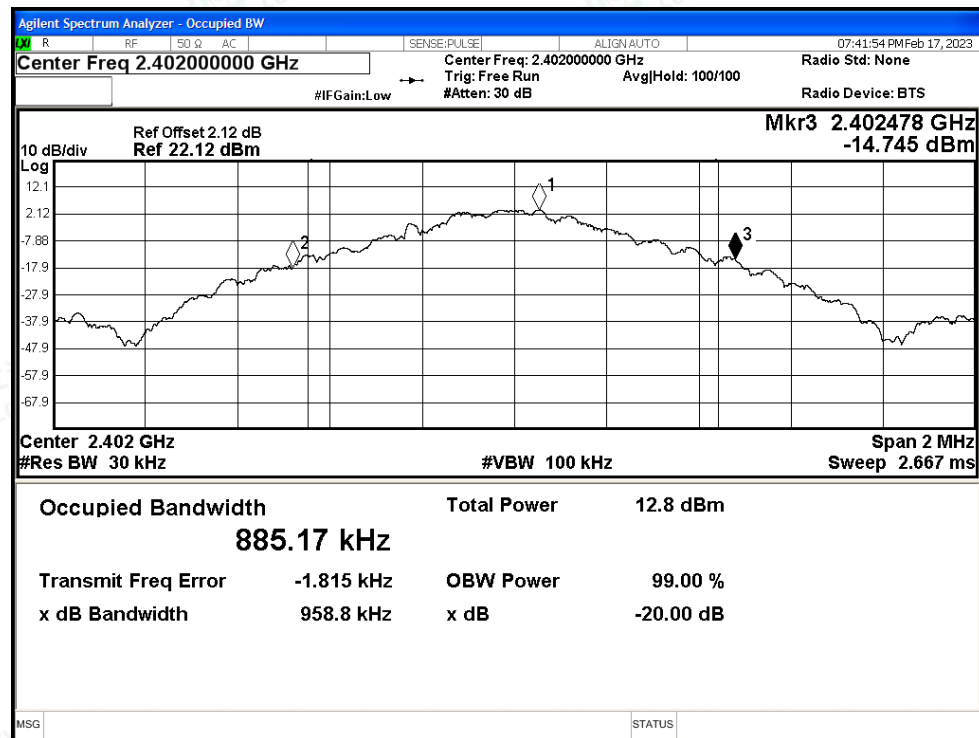


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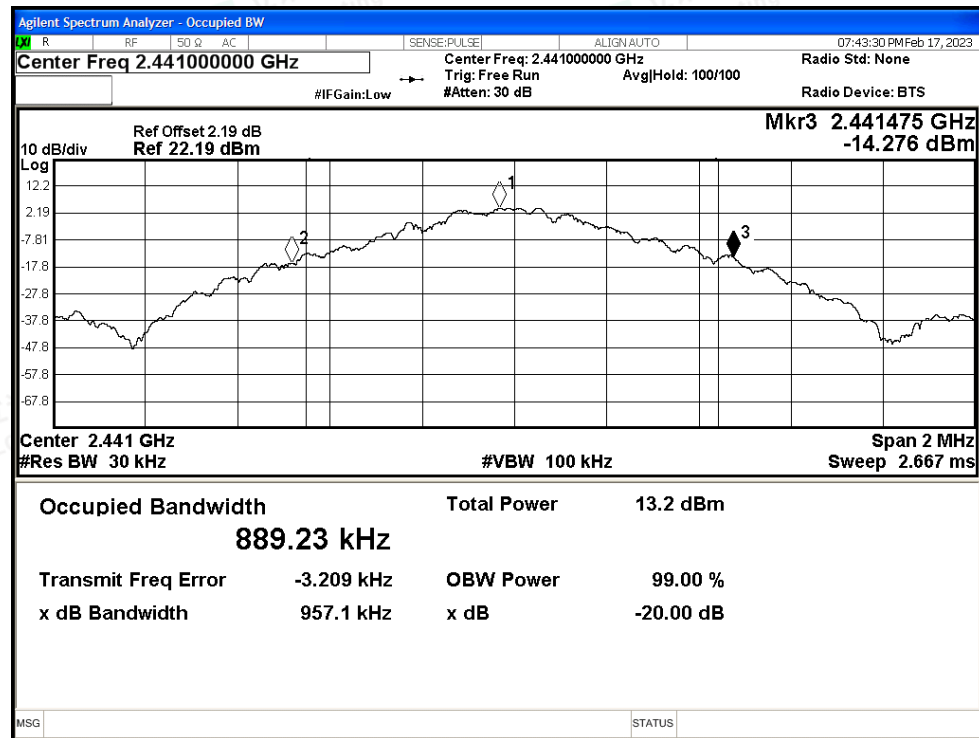


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

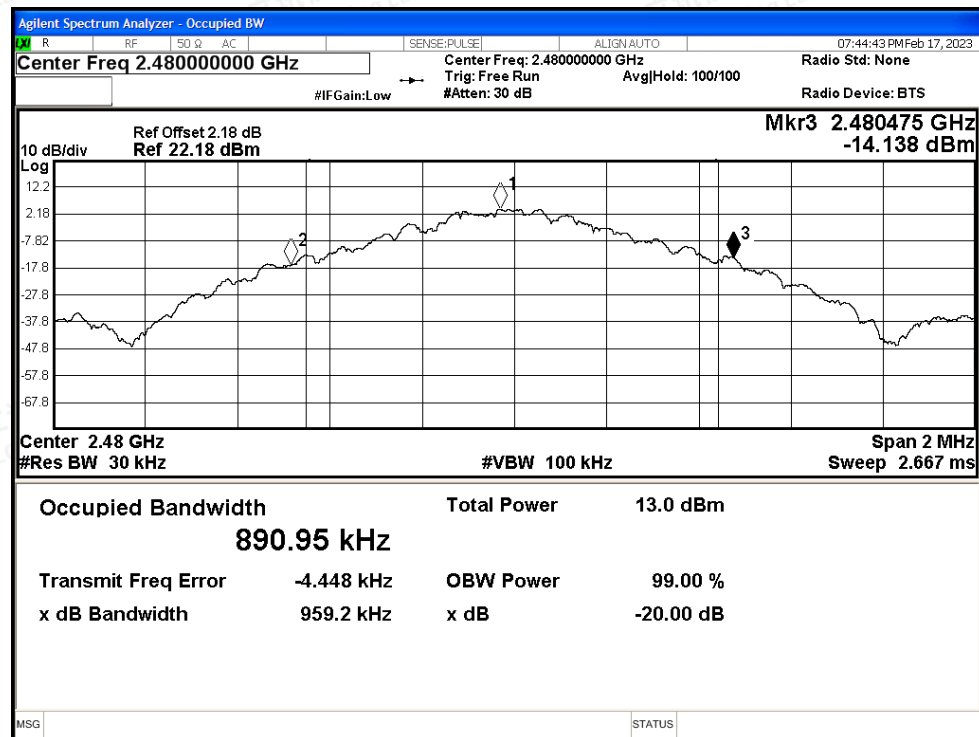


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

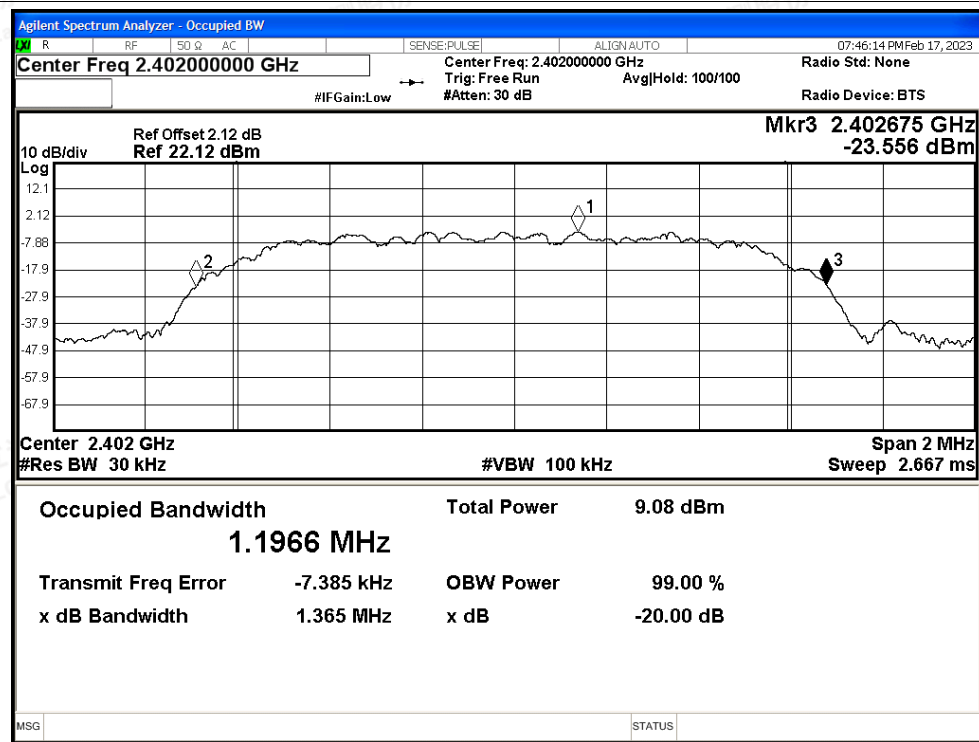




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

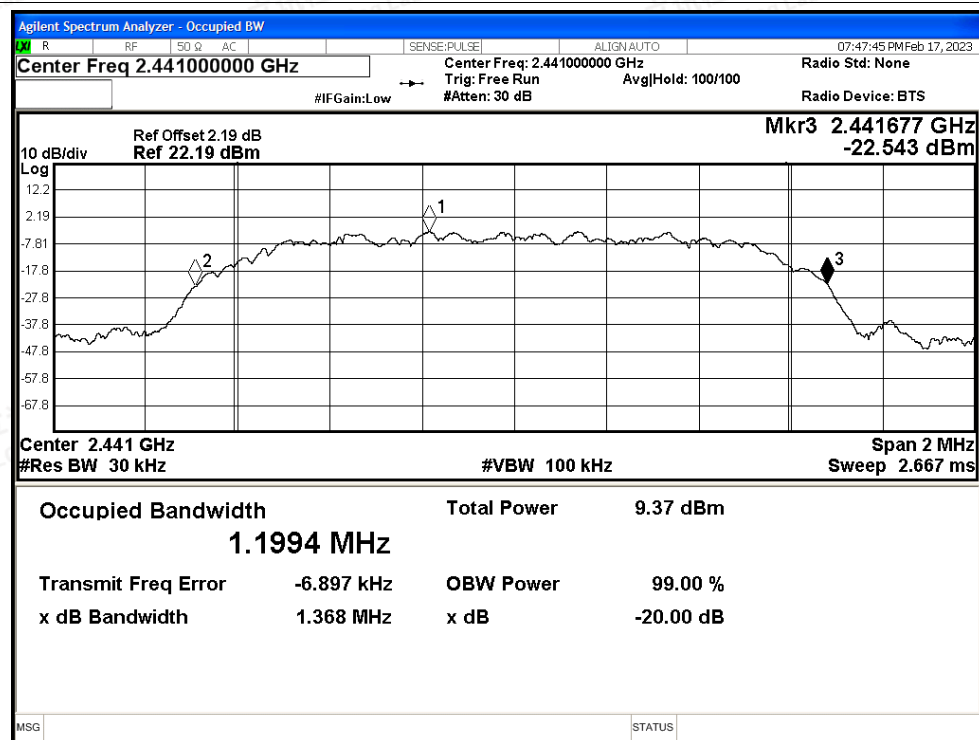


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

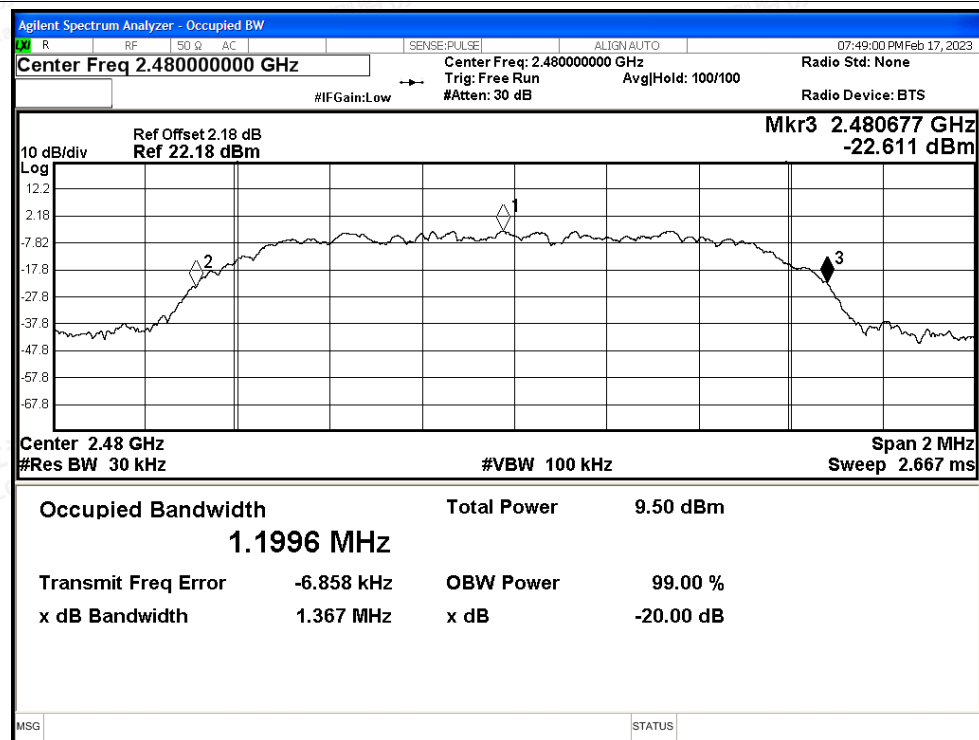




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

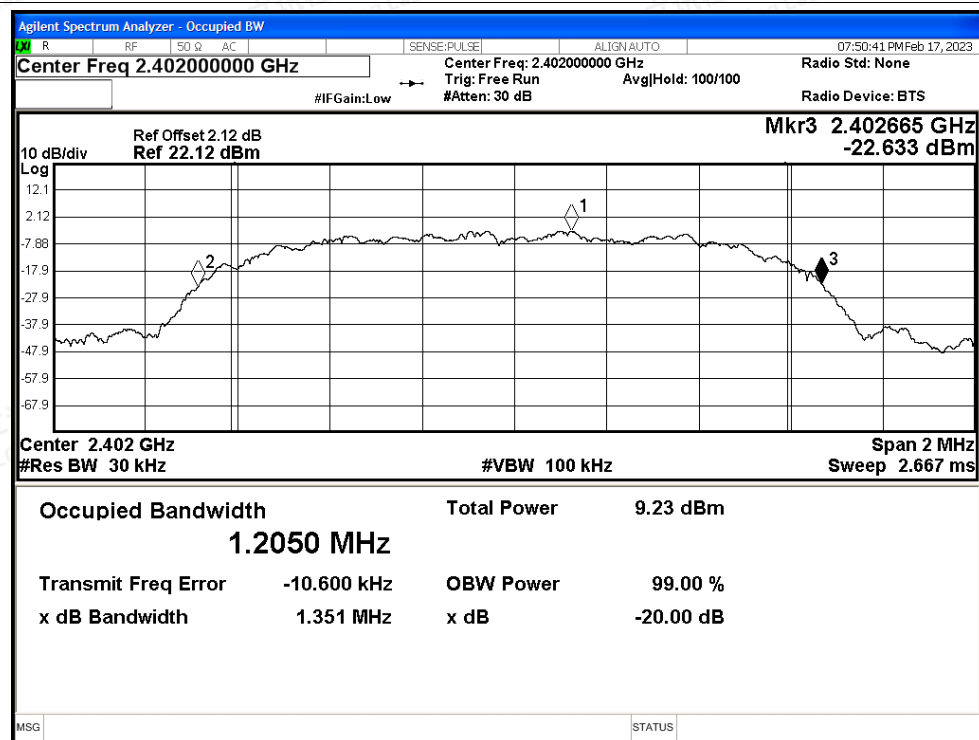


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

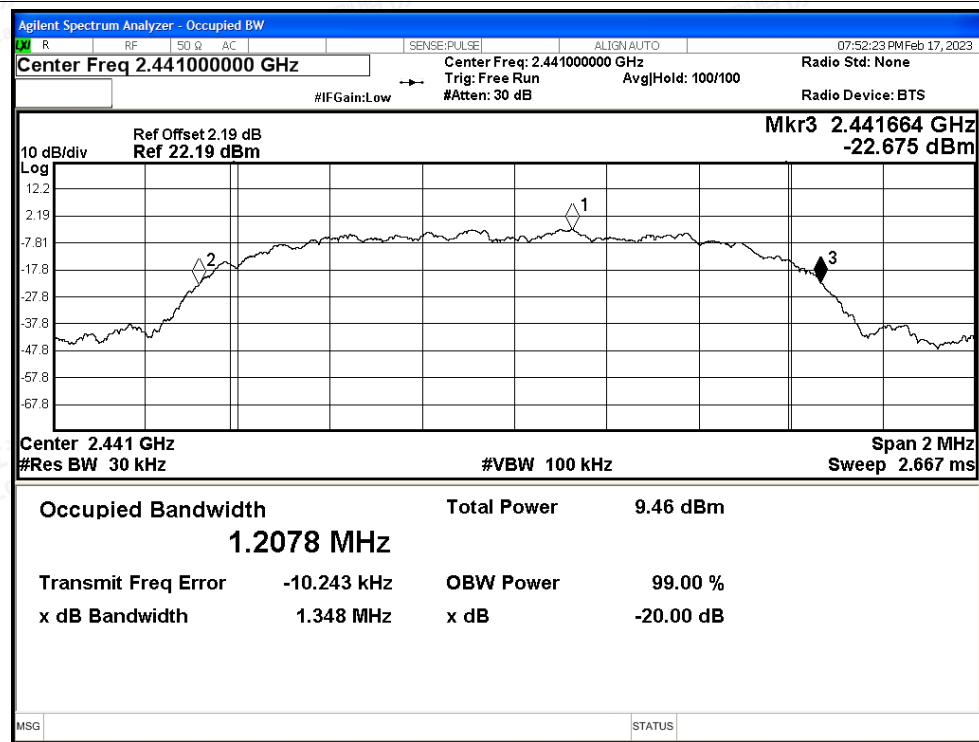


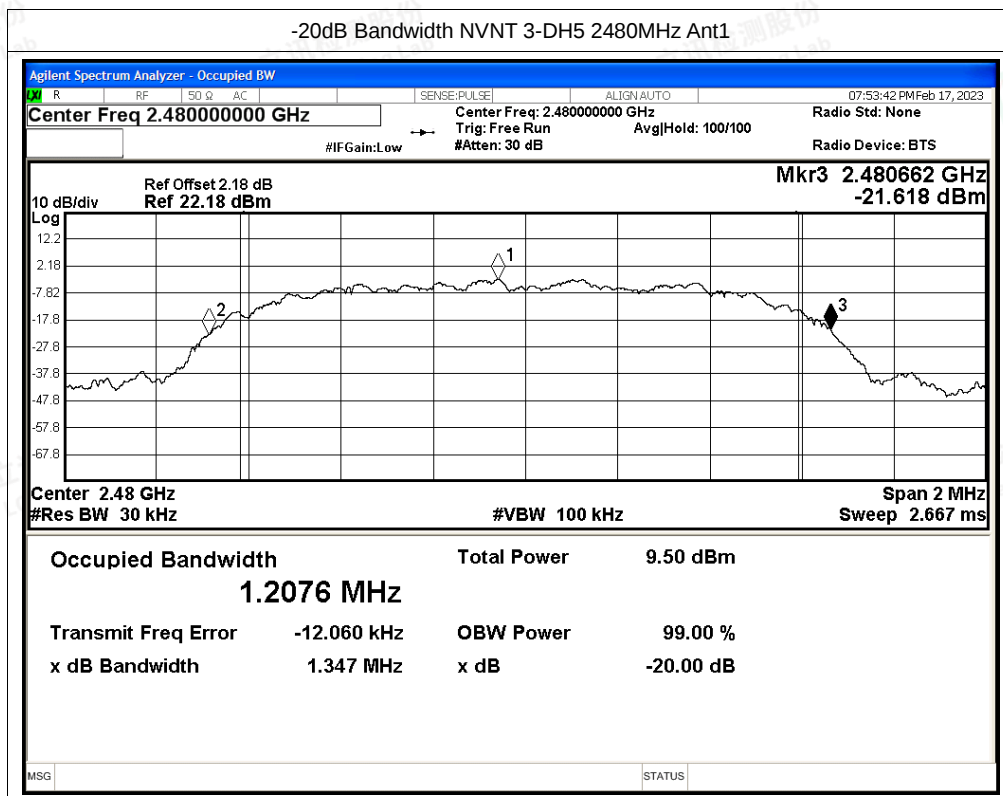


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum 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	6.39	0	6.39	21	Pass
NVNT	1-DH5	2441	Ant1	6.84	0	6.84	21	Pass
NVNT	1-DH5	2480	Ant1	6.74	0	6.74	21	Pass
NVNT	2-DH5	2402	Ant1	5.10	0	5.10	21	Pass
NVNT	2-DH5	2441	Ant1	5.34	0	5.34	21	Pass
NVNT	2-DH5	2480	Ant1	5.3	0	5.3	21	Pass
NVNT	3-DH5	2402	Ant1	5.34	0	5.34	21	Pass
NVNT	3-DH5	2441	Ant1	5.72	0	5.72	21	Pass
NVNT	3-DH5	2480	Ant1	5.71	0	5.71	21	Pass

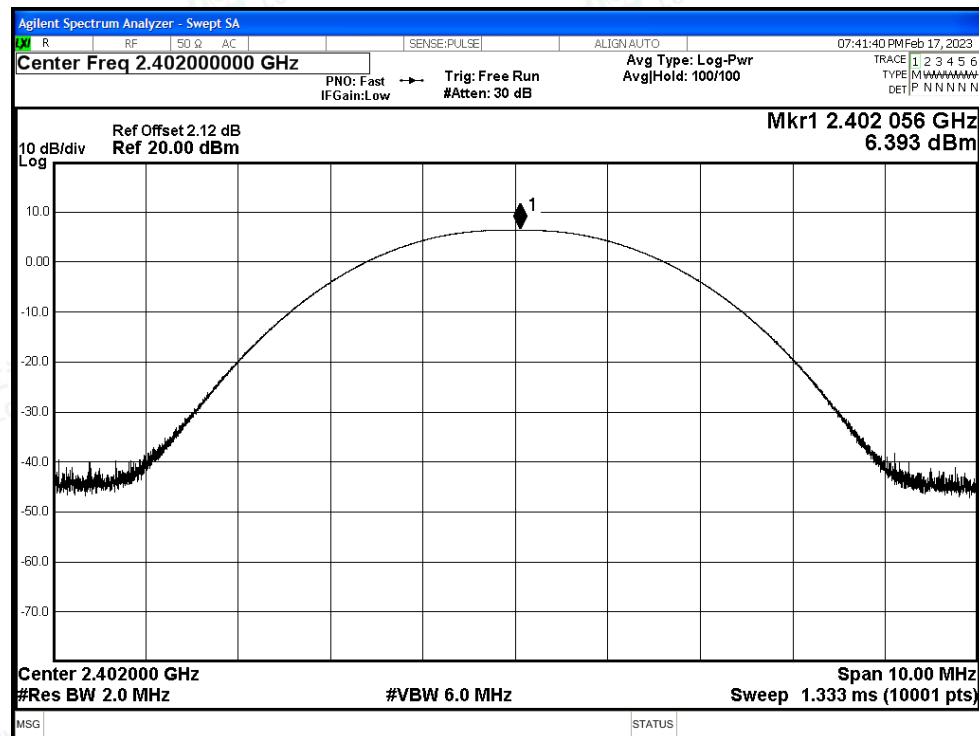


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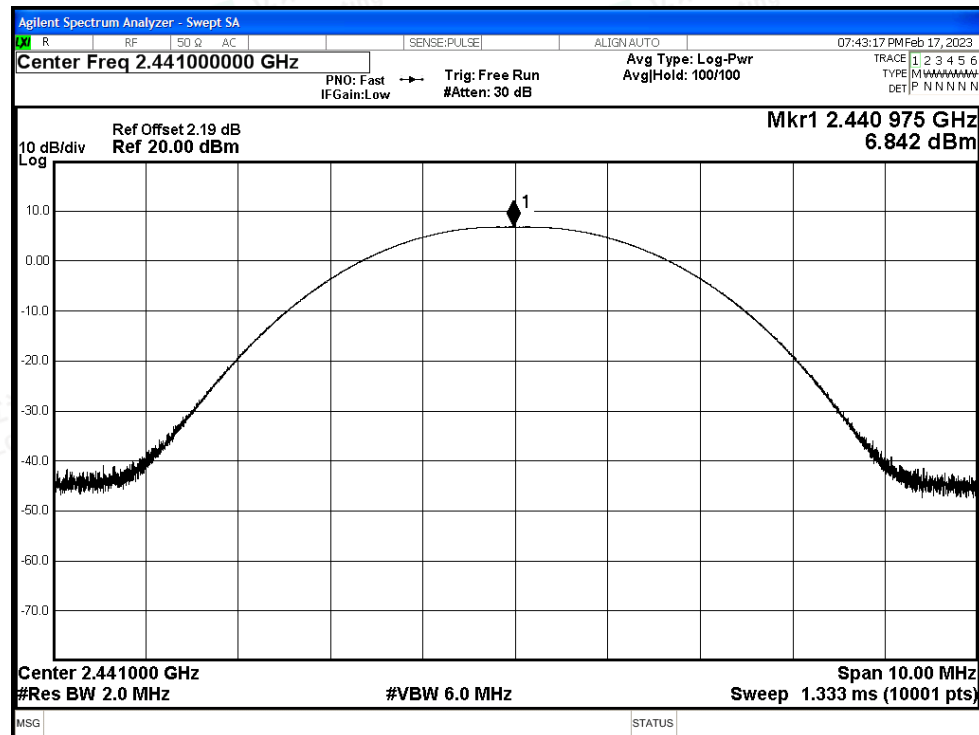


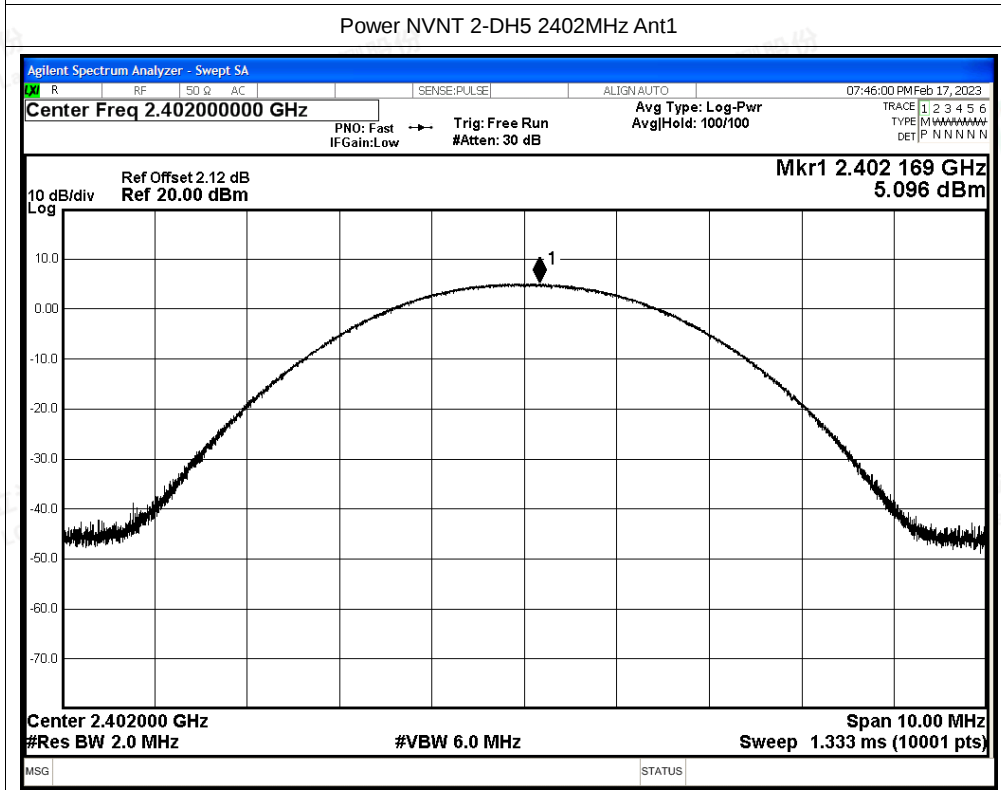
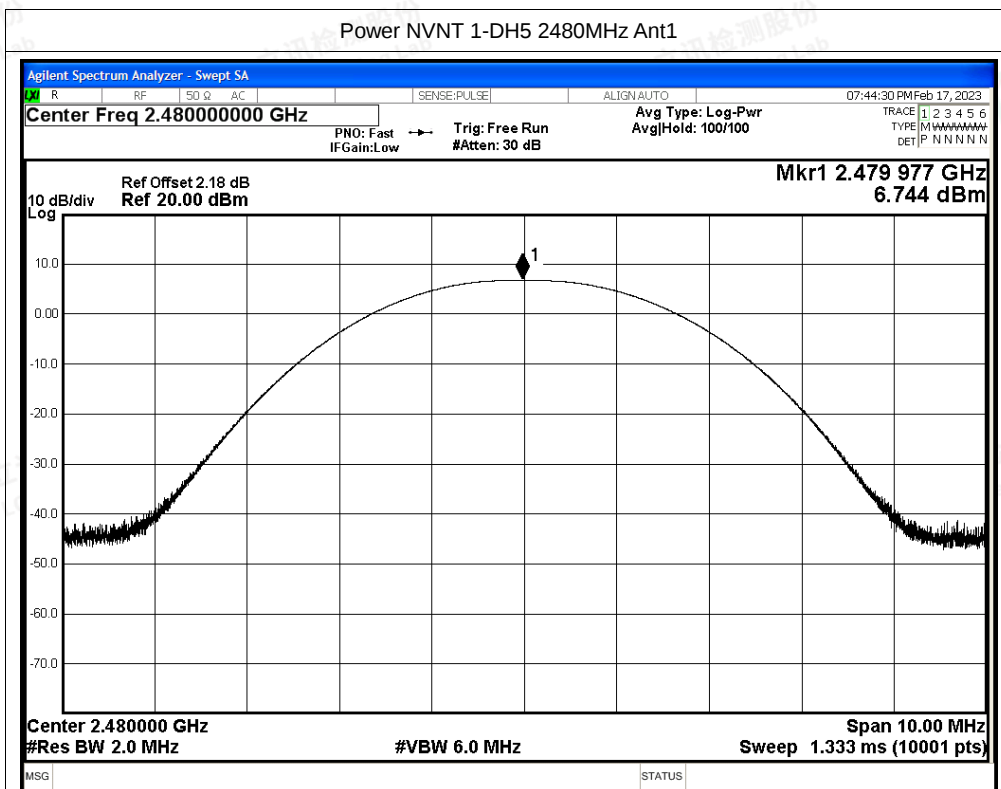
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



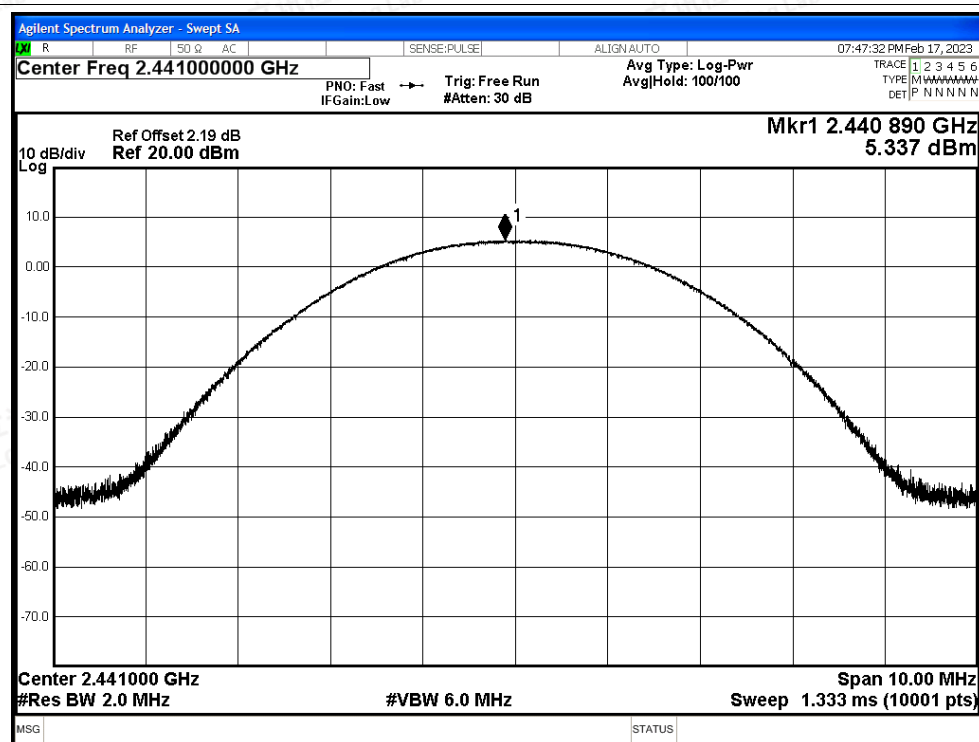
Power NVNT 1-DH5 2441MHz Ant1



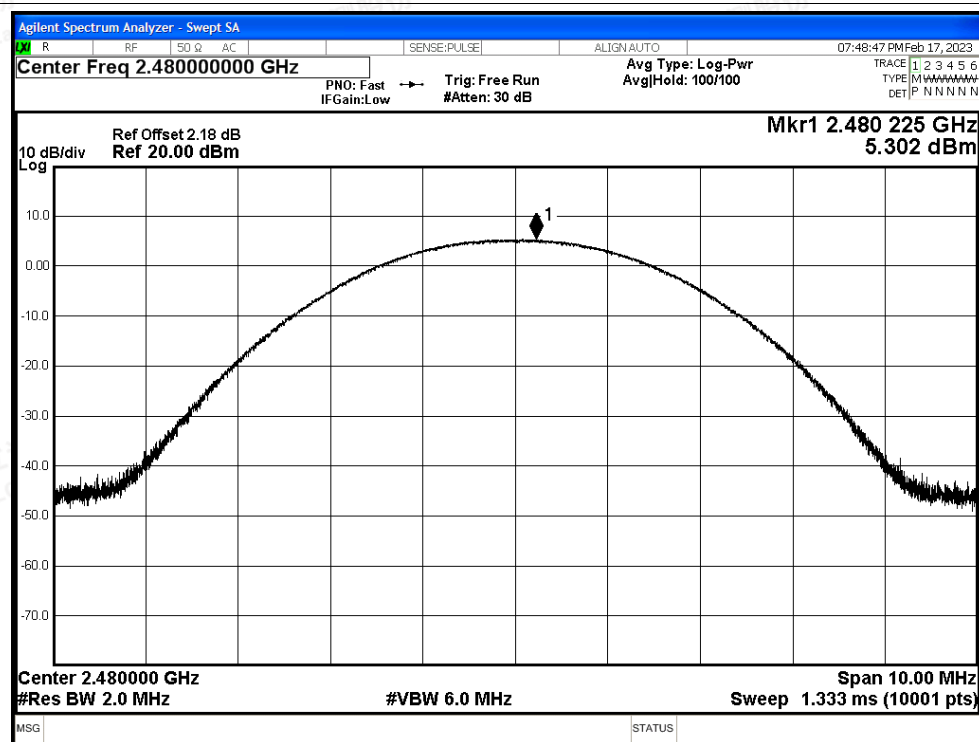


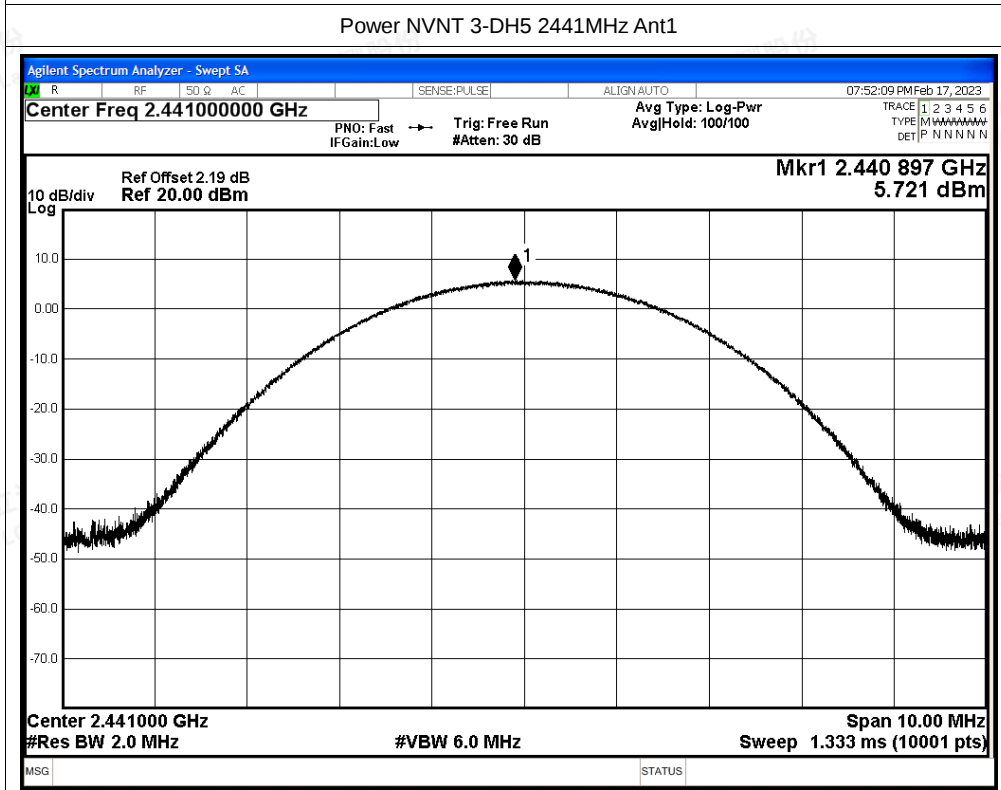
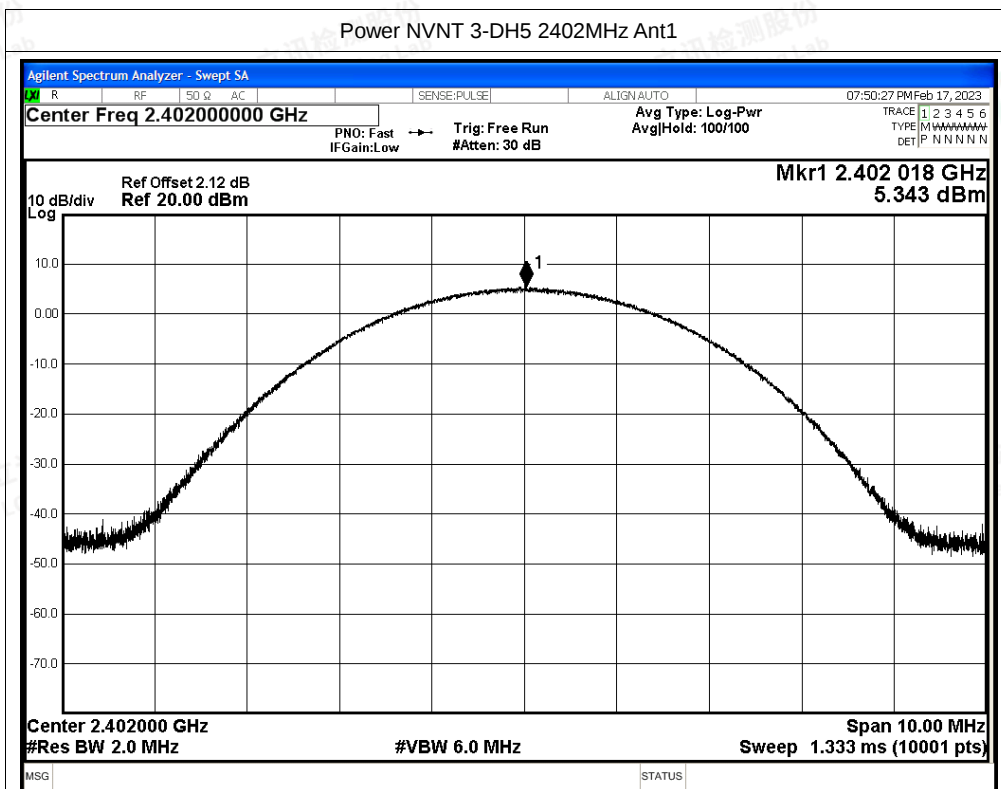


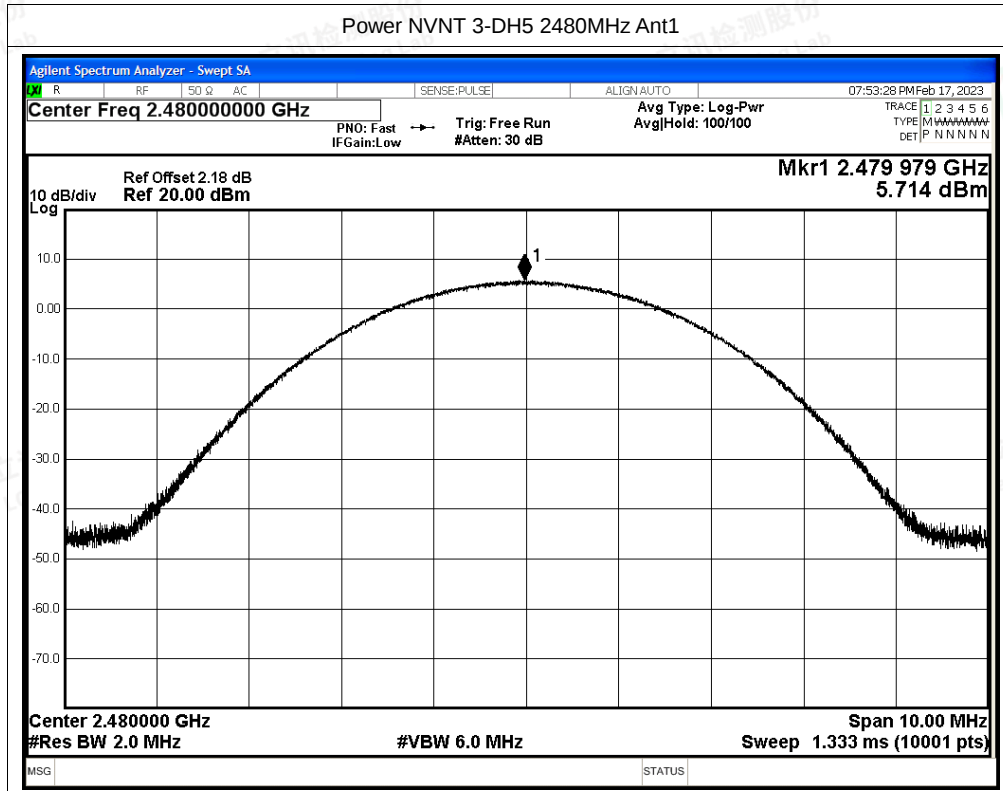
Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1









A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.952	2403.156	1.204	0.639	Pass
NVNT	2-DH5	Ant1	2401.824	2402.988	1.164	0.91	Pass
NVNT	3-DH5	Ant1	2401.978	2403.134	1.156	0.901	Pass

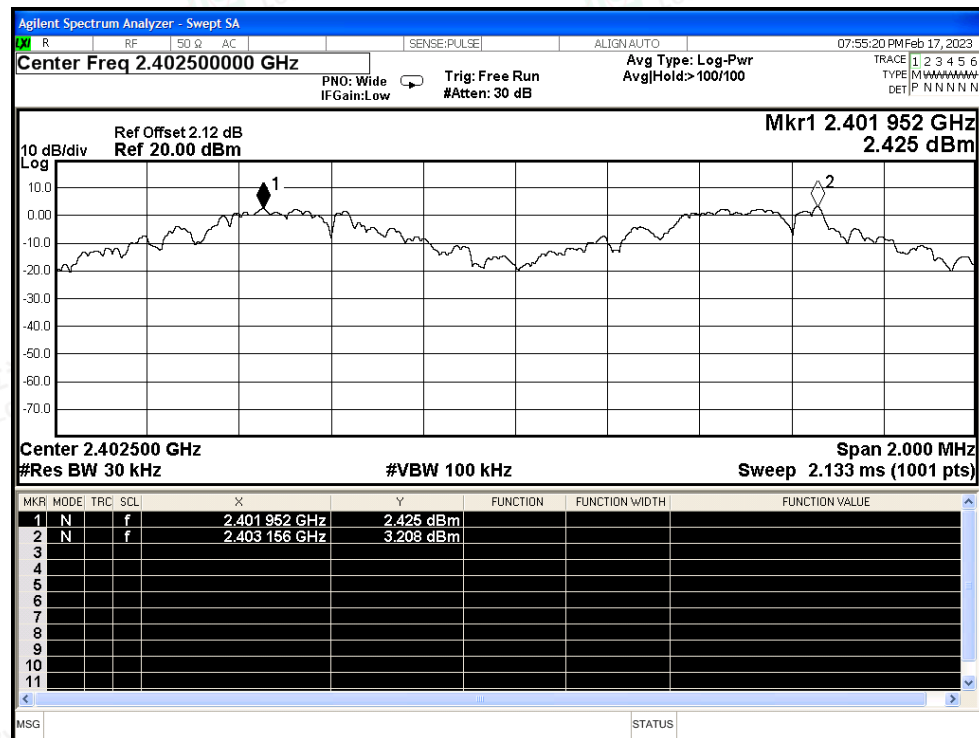


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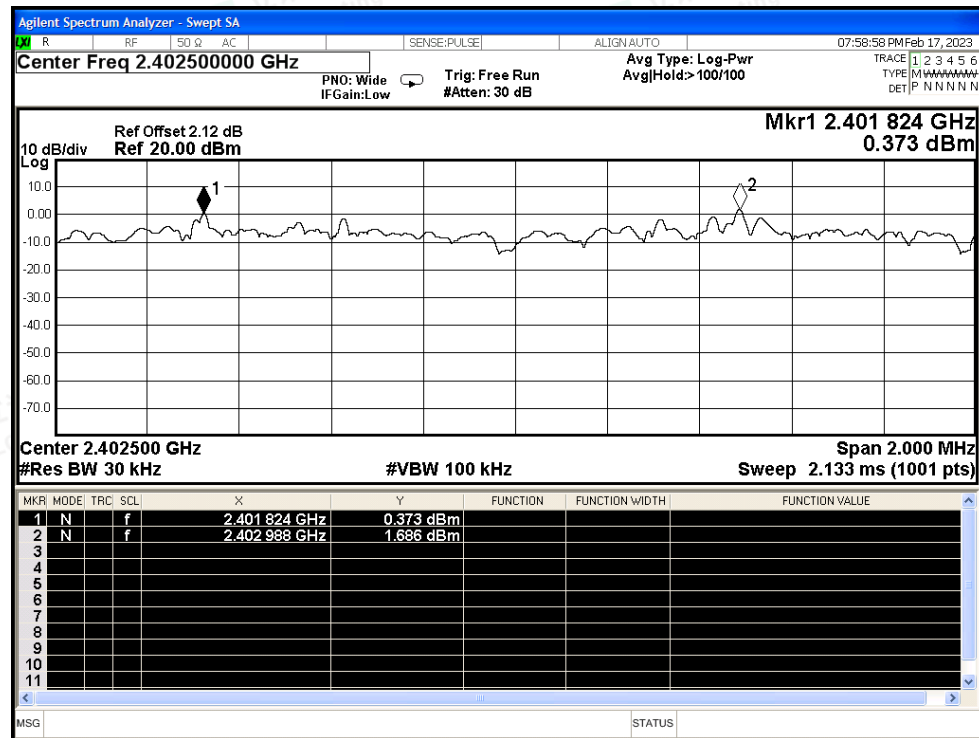


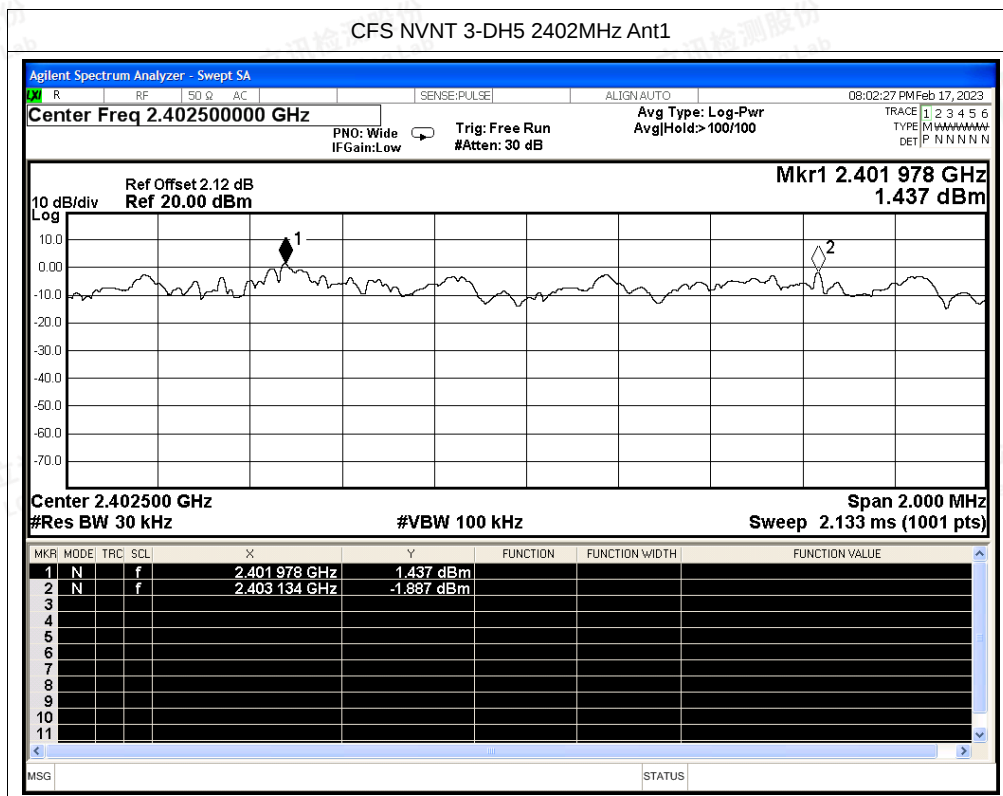
Test Graphs

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	2.887	337.779	117	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.892	300.768	104	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.893	289.3	100	31600	400	Pass

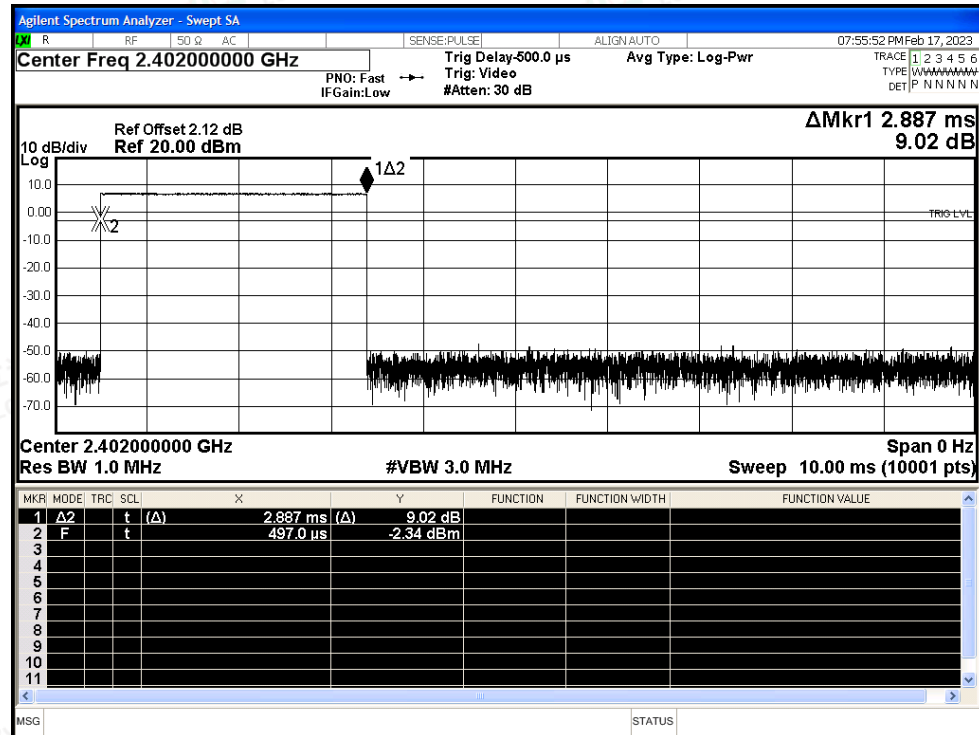


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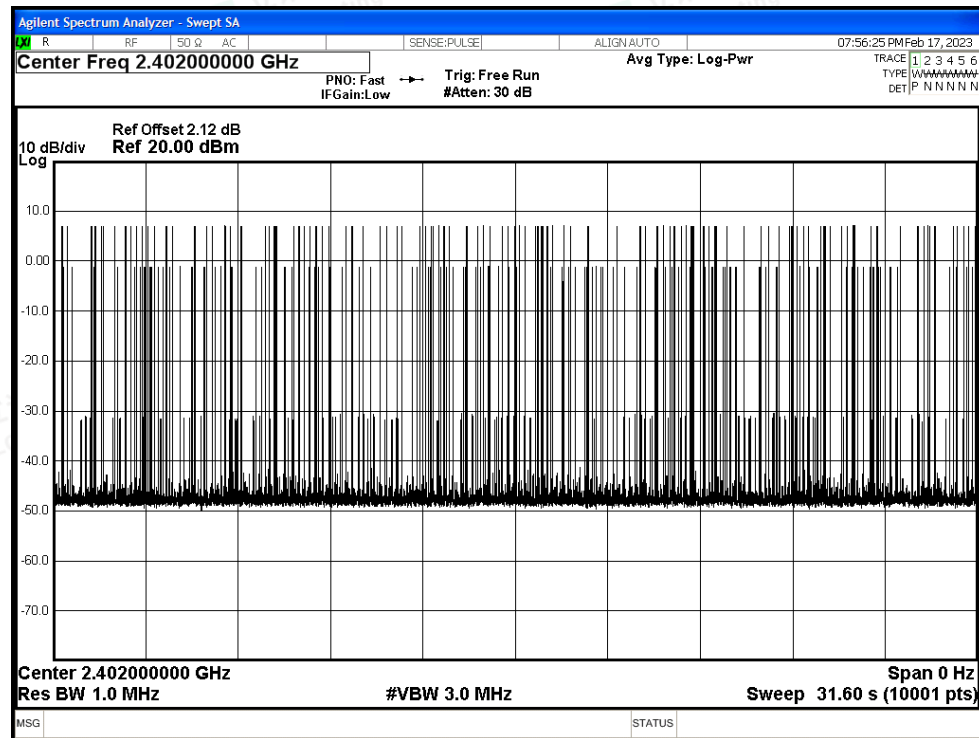


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

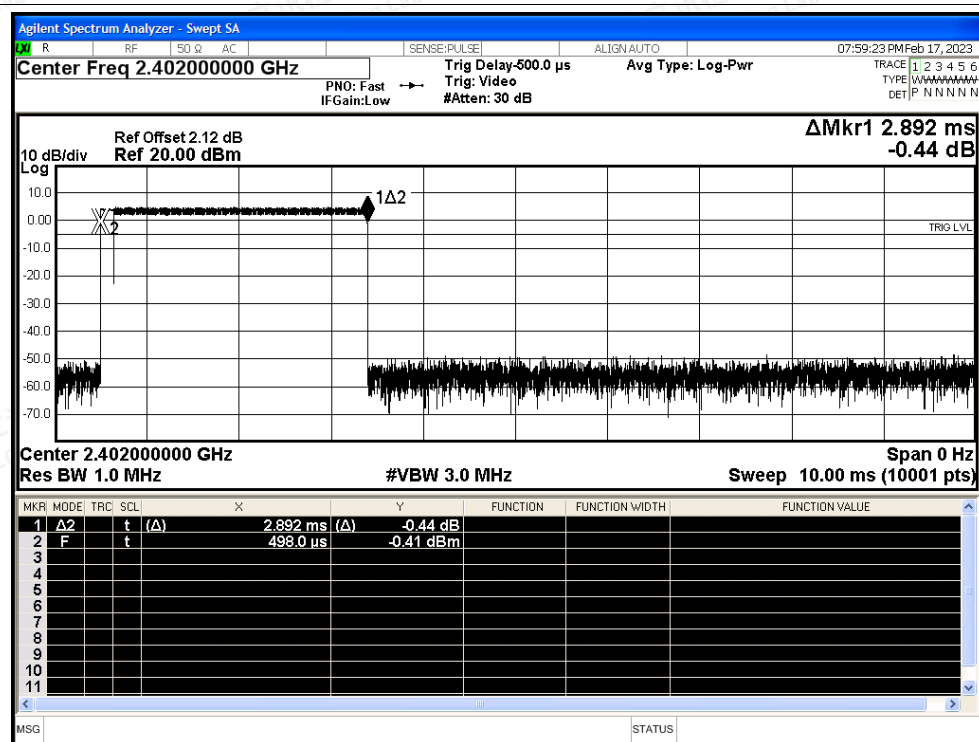


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

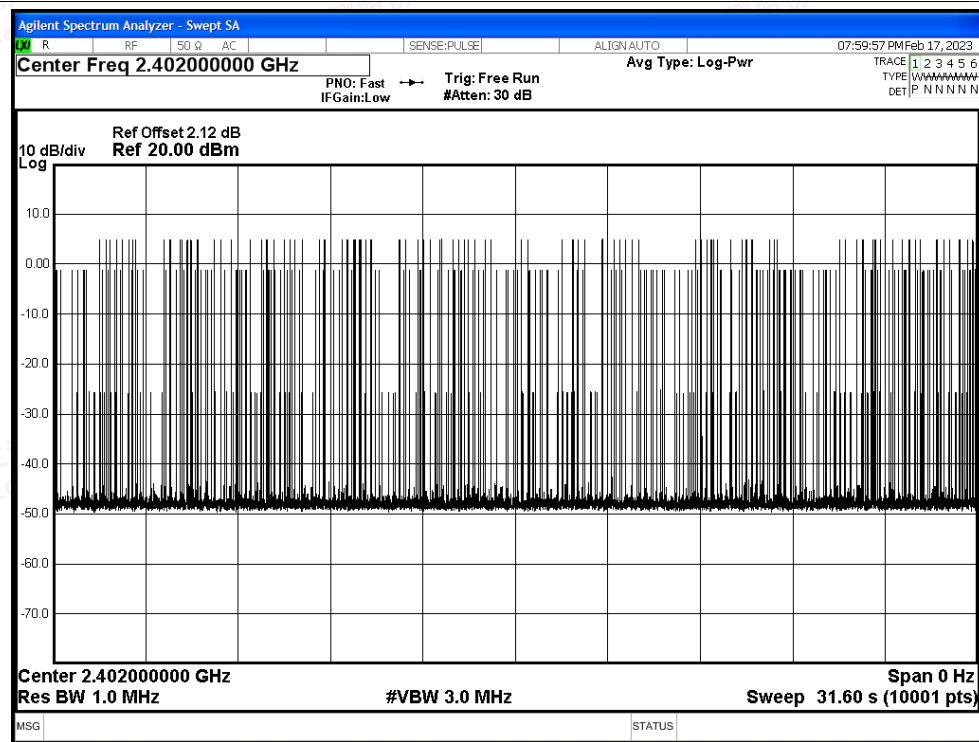




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

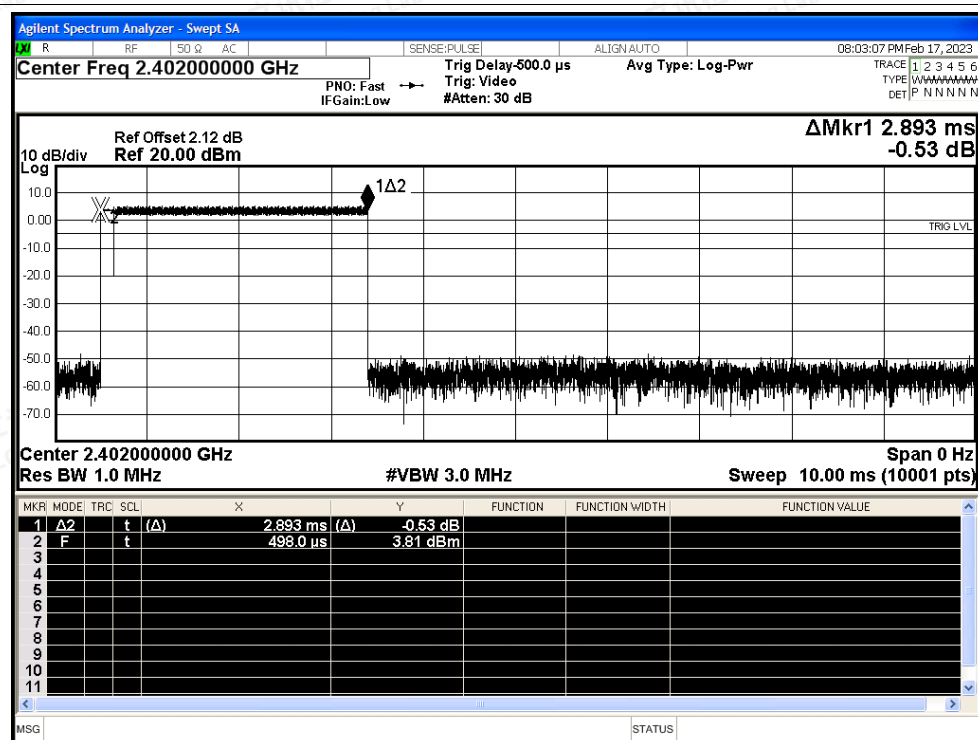


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

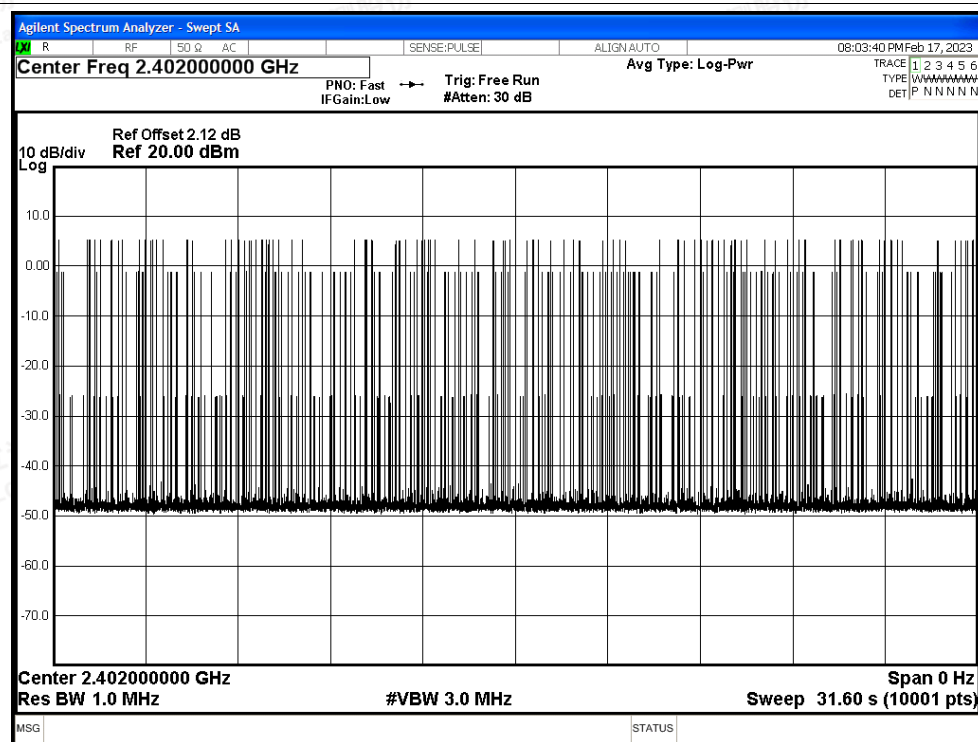




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

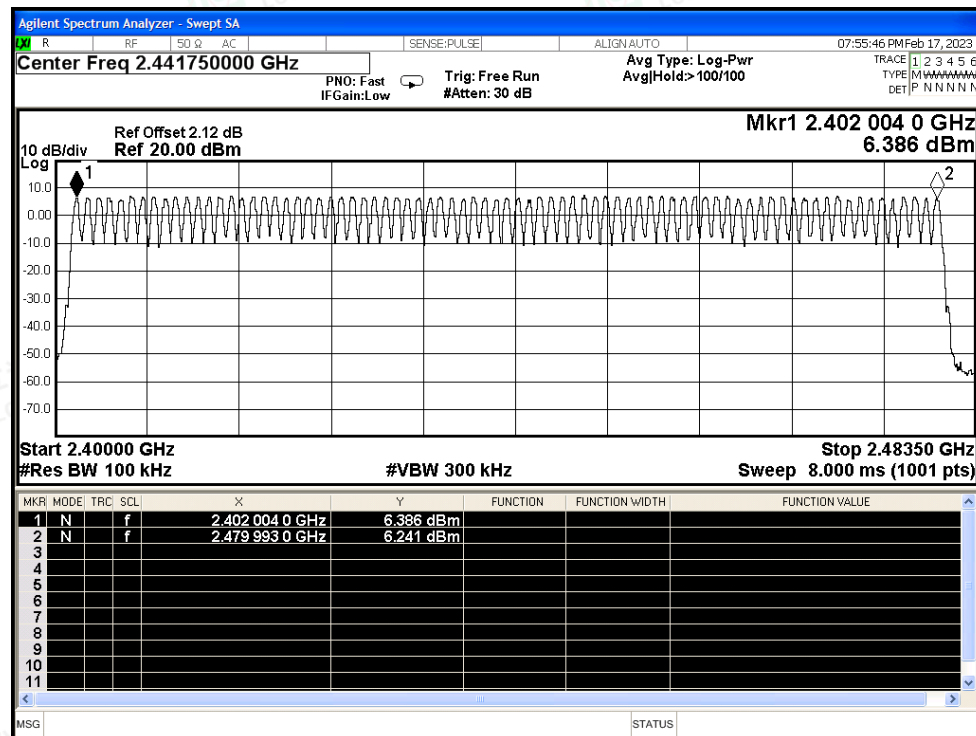


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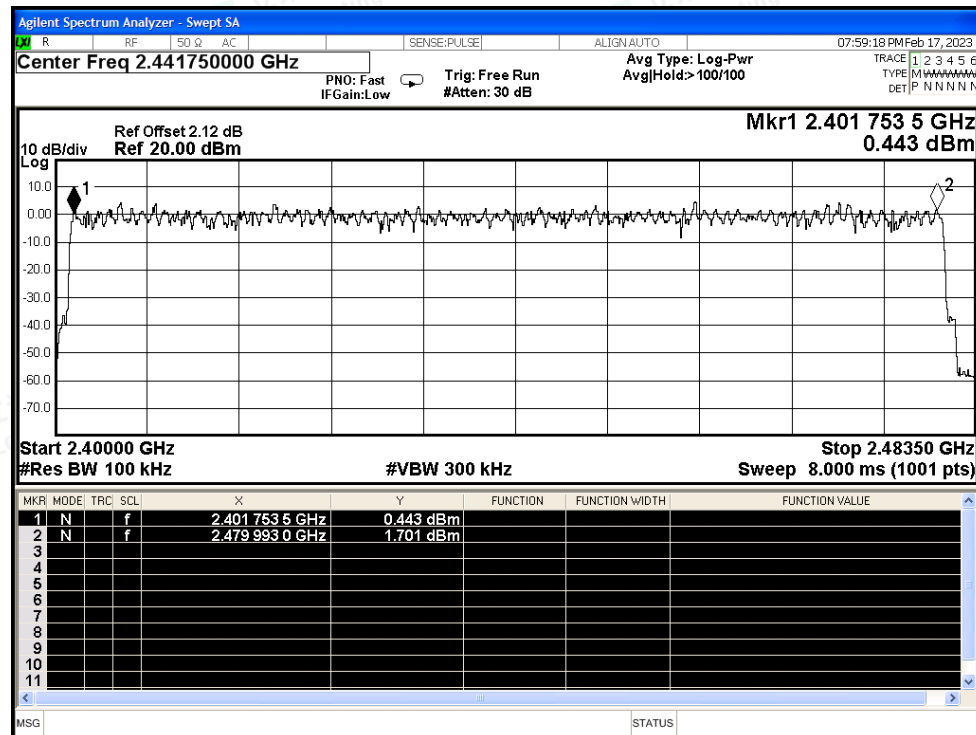


Test Graphs

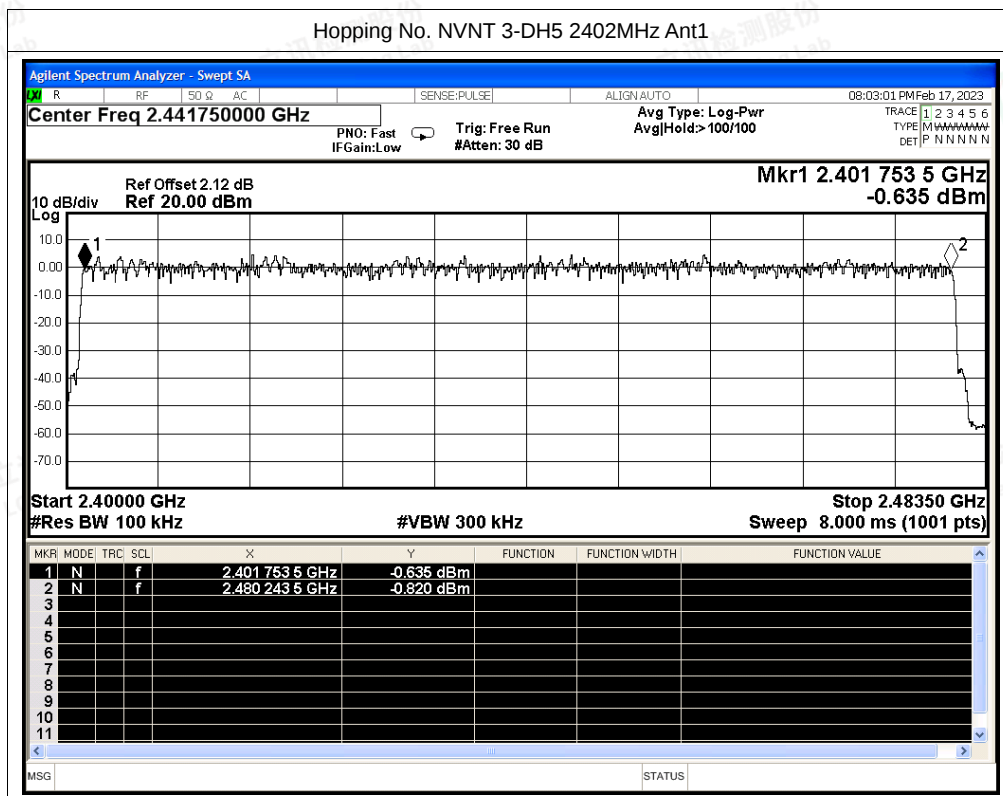
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.46	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.51	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.11	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.17	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.94	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.3	-20	Pass

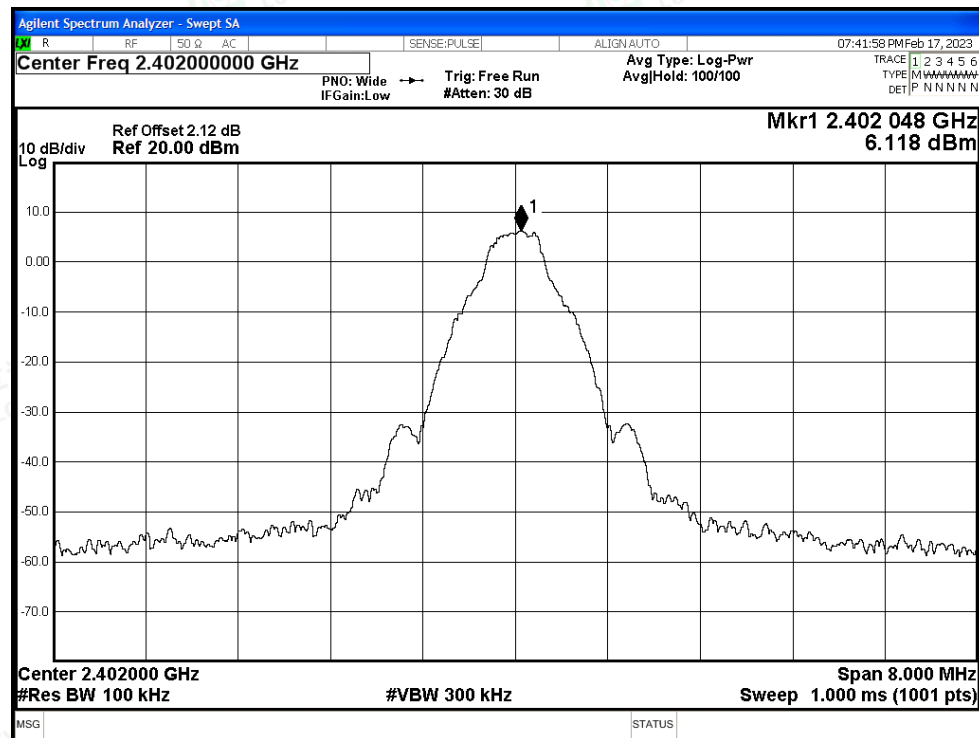


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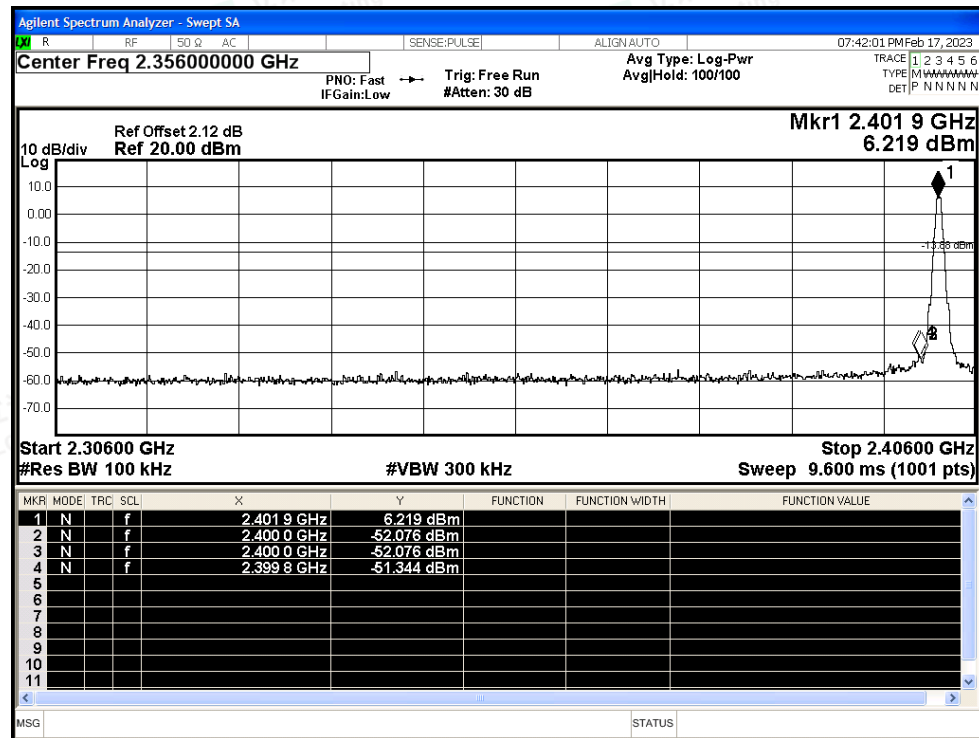


Test Graphs

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

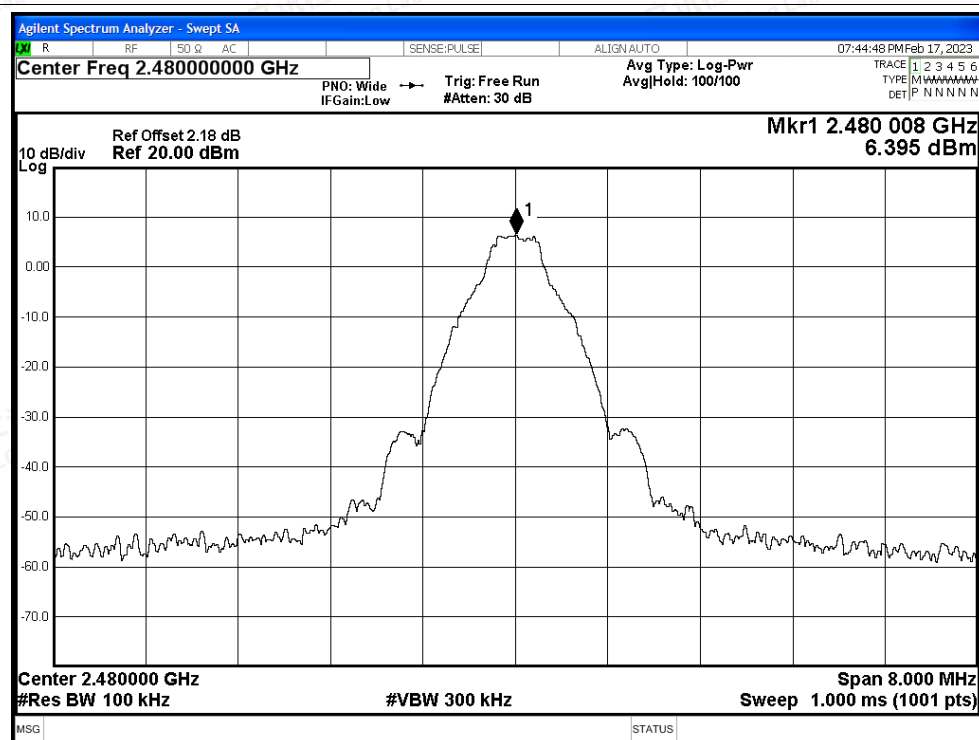


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

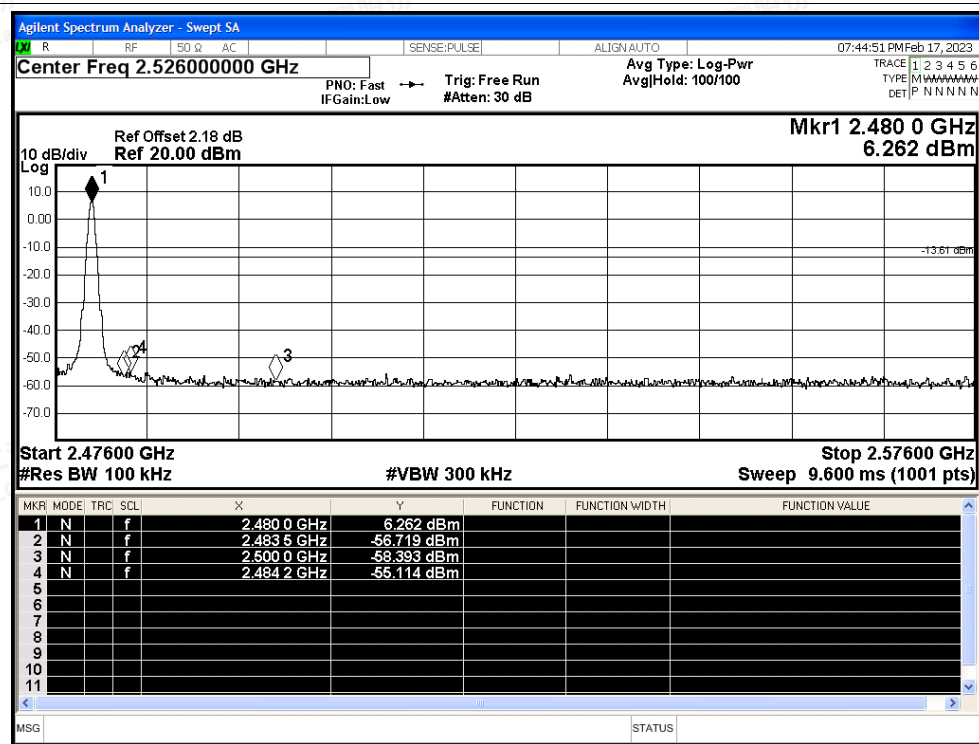


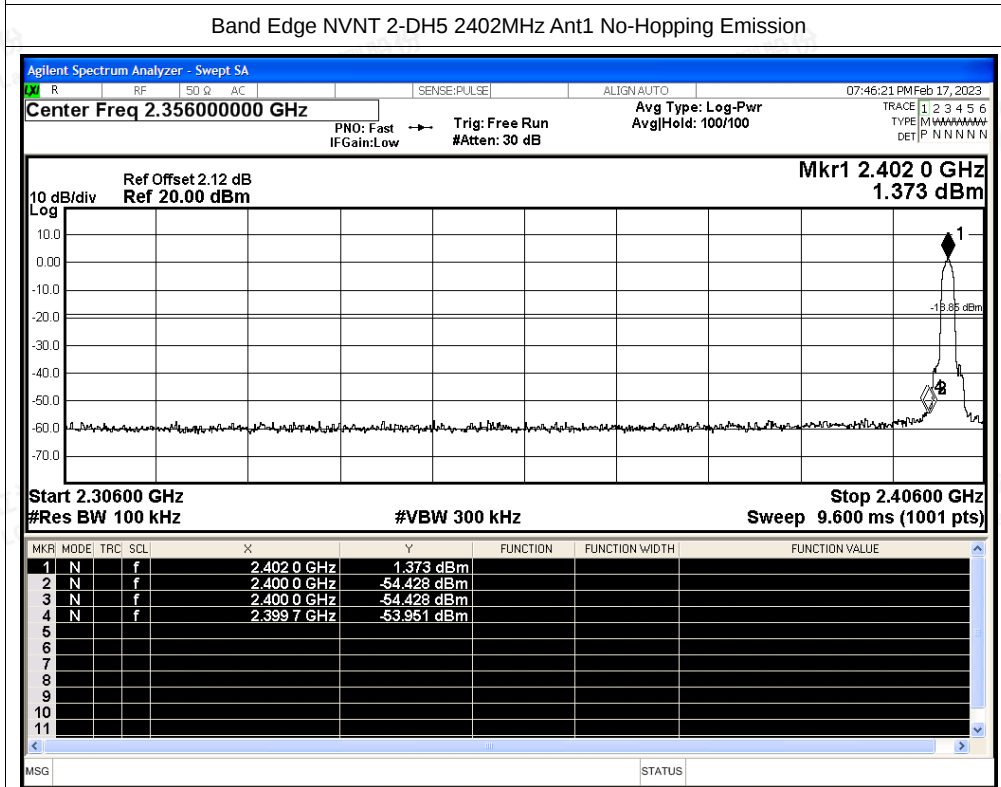
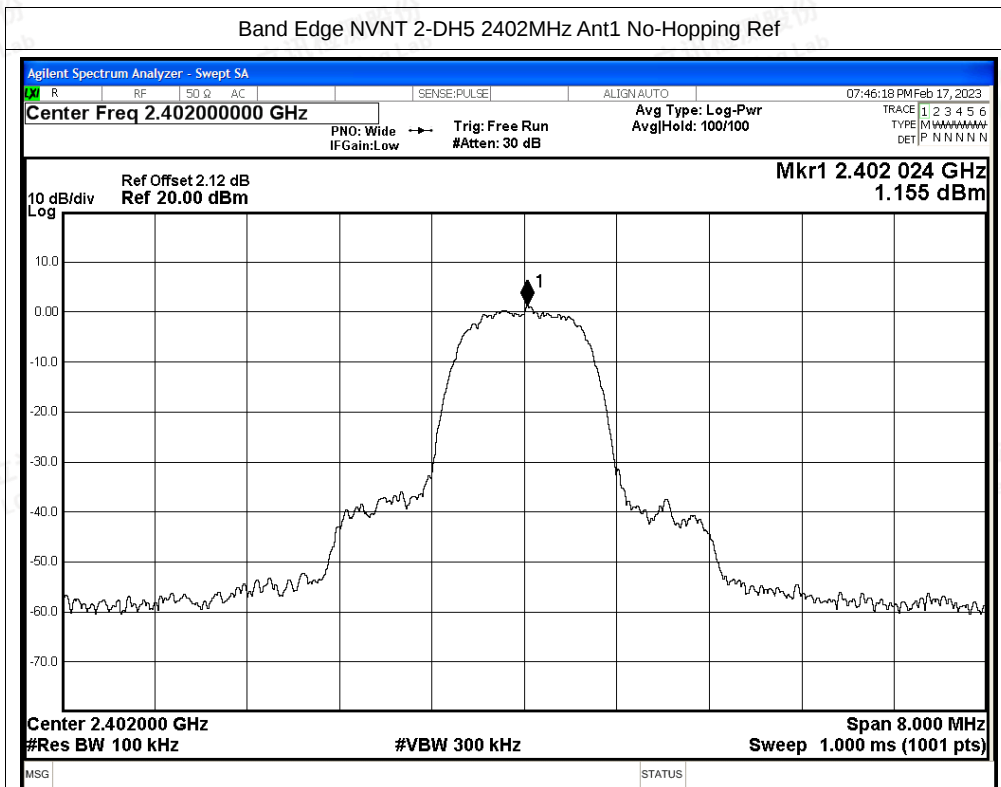


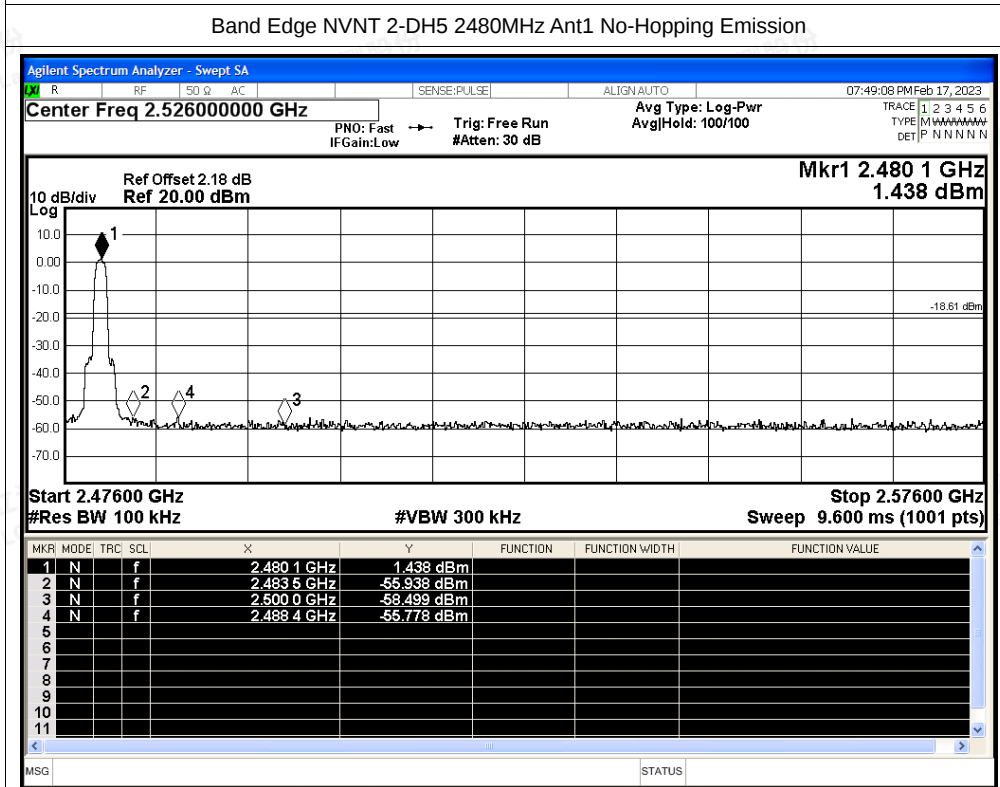
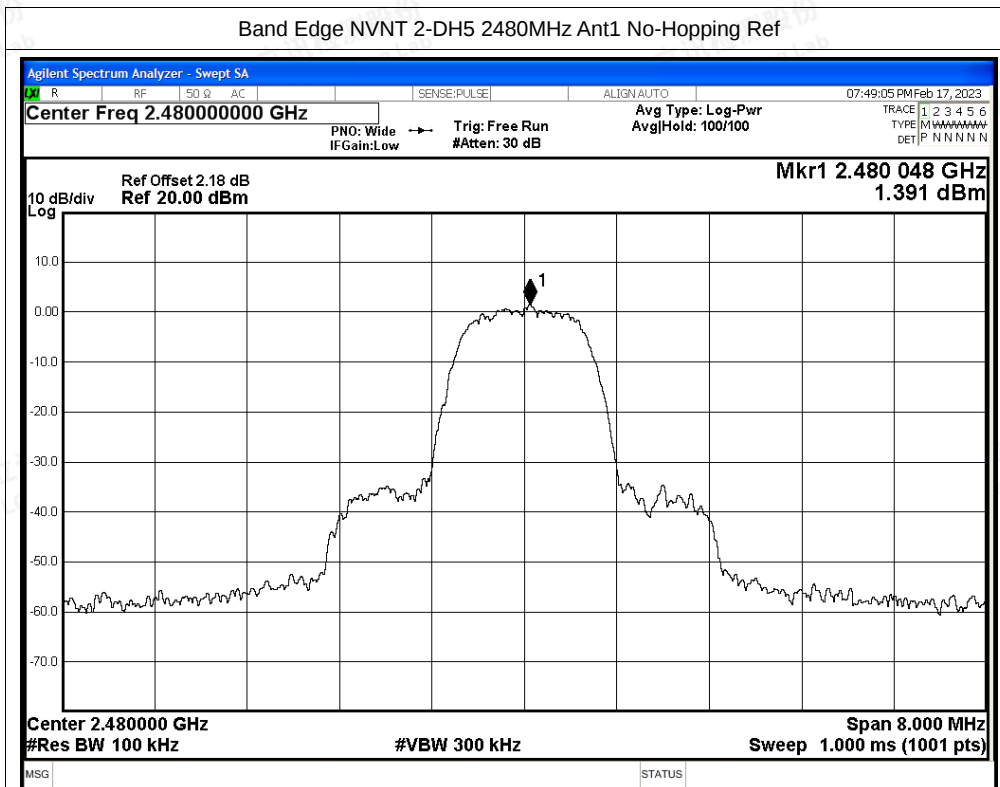
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

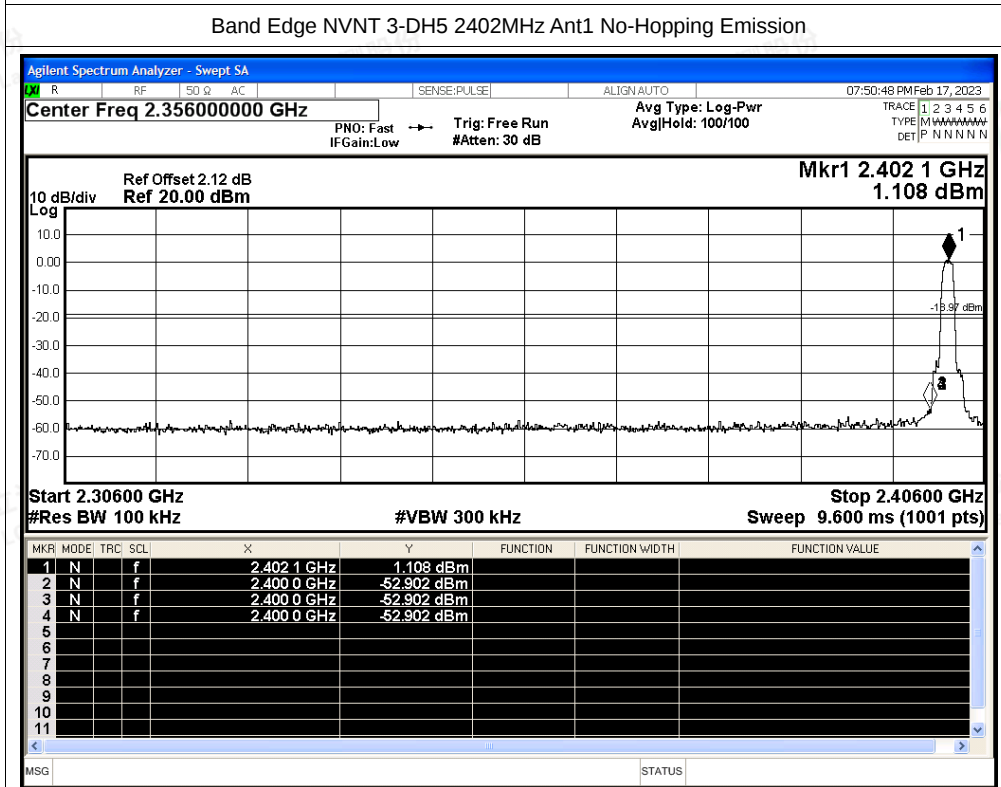
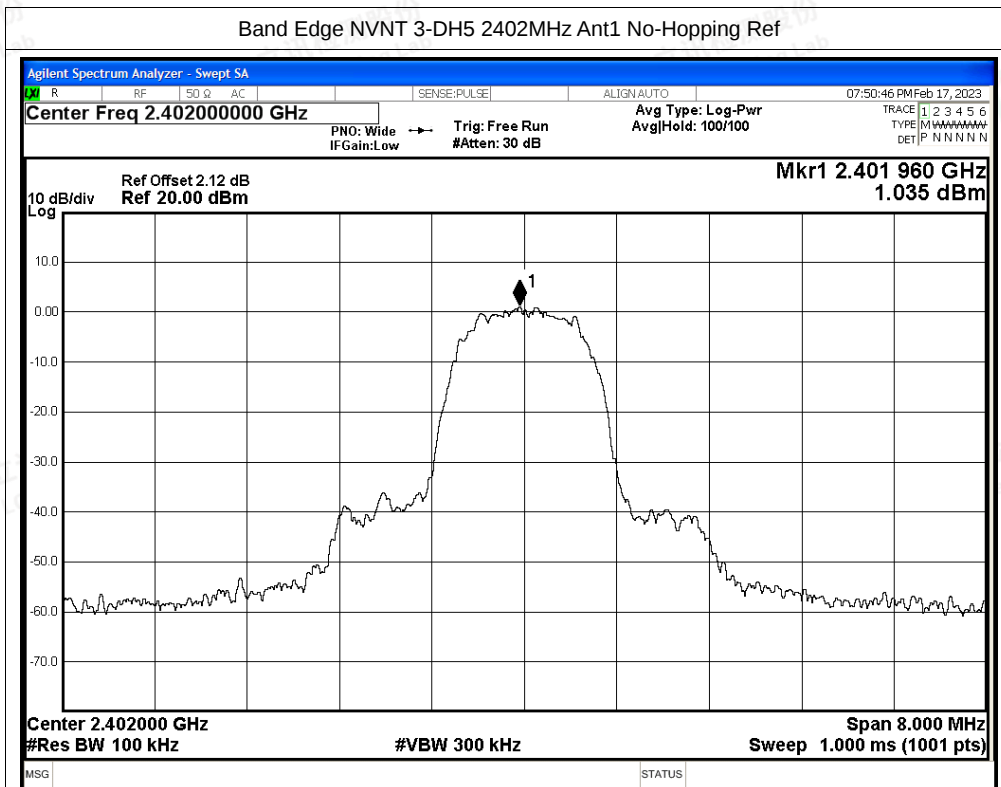


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



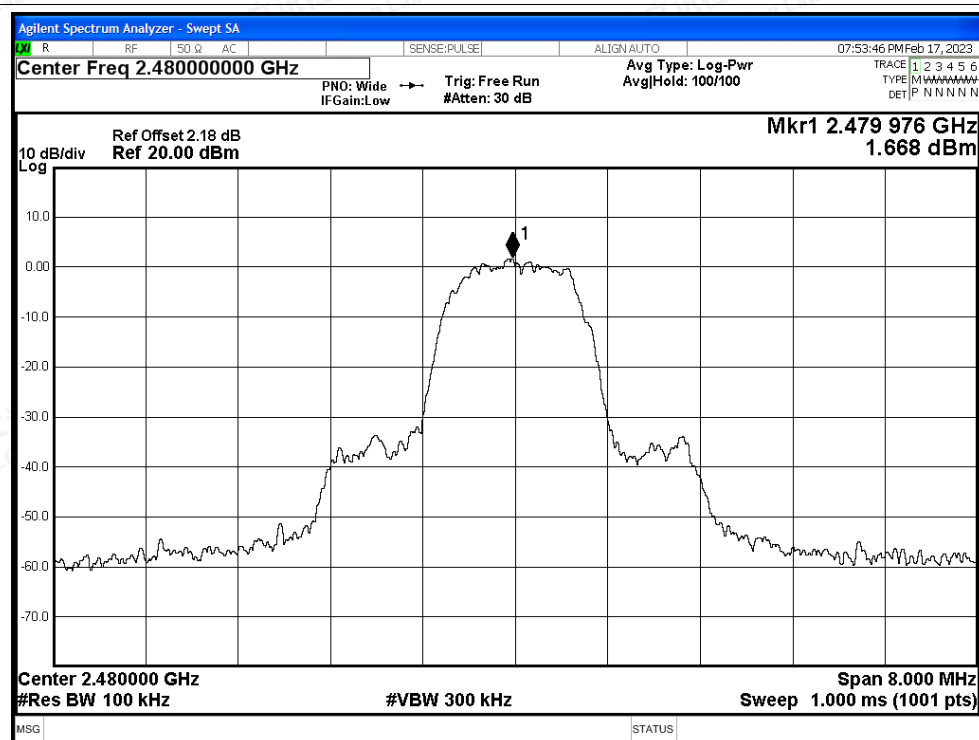




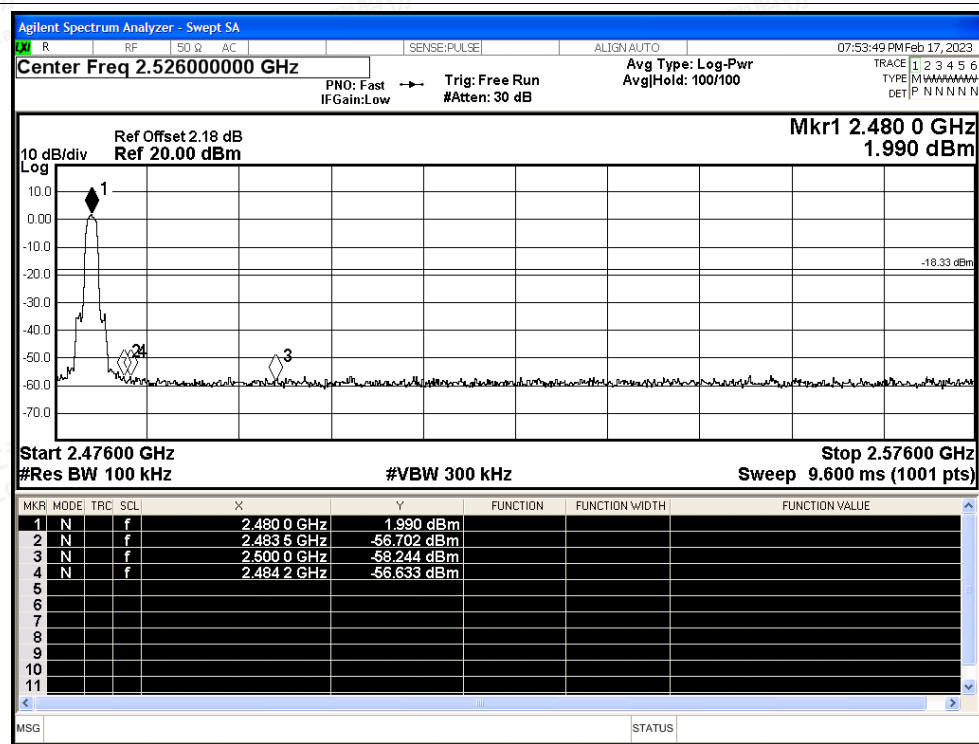




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-61.65	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-61.7	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.93	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.79	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-59.6	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-59.62	-20	Pass

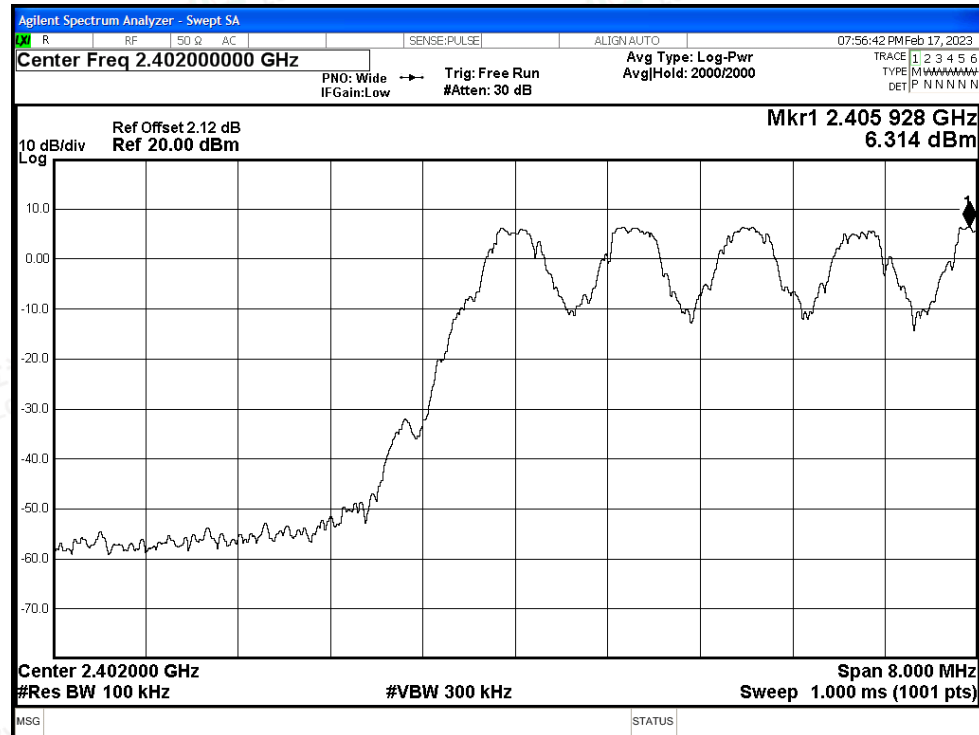


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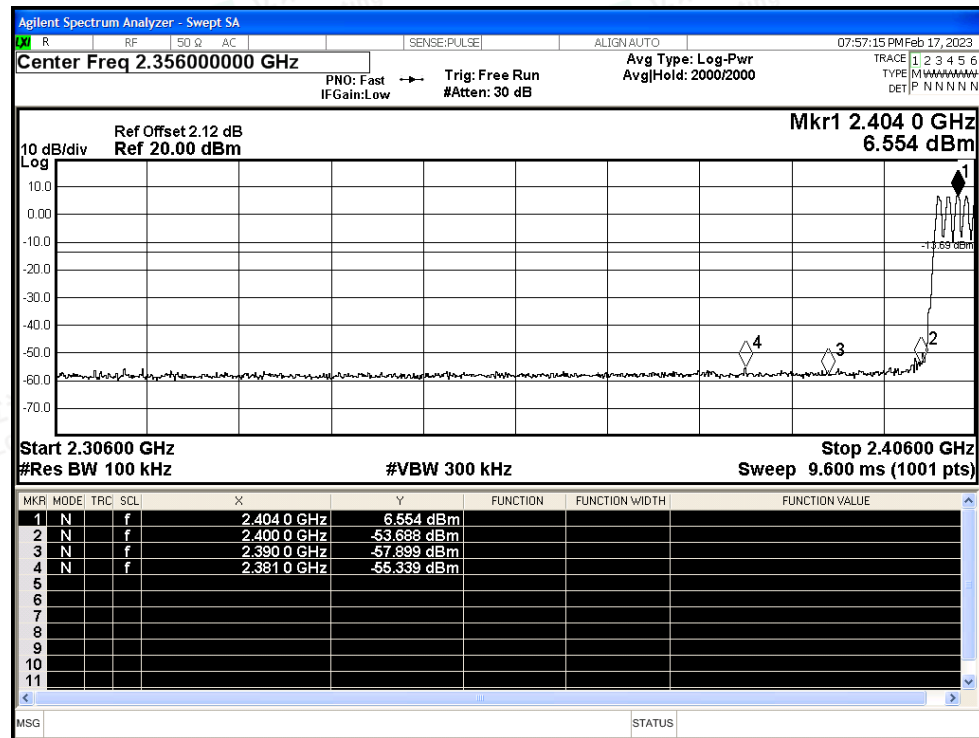


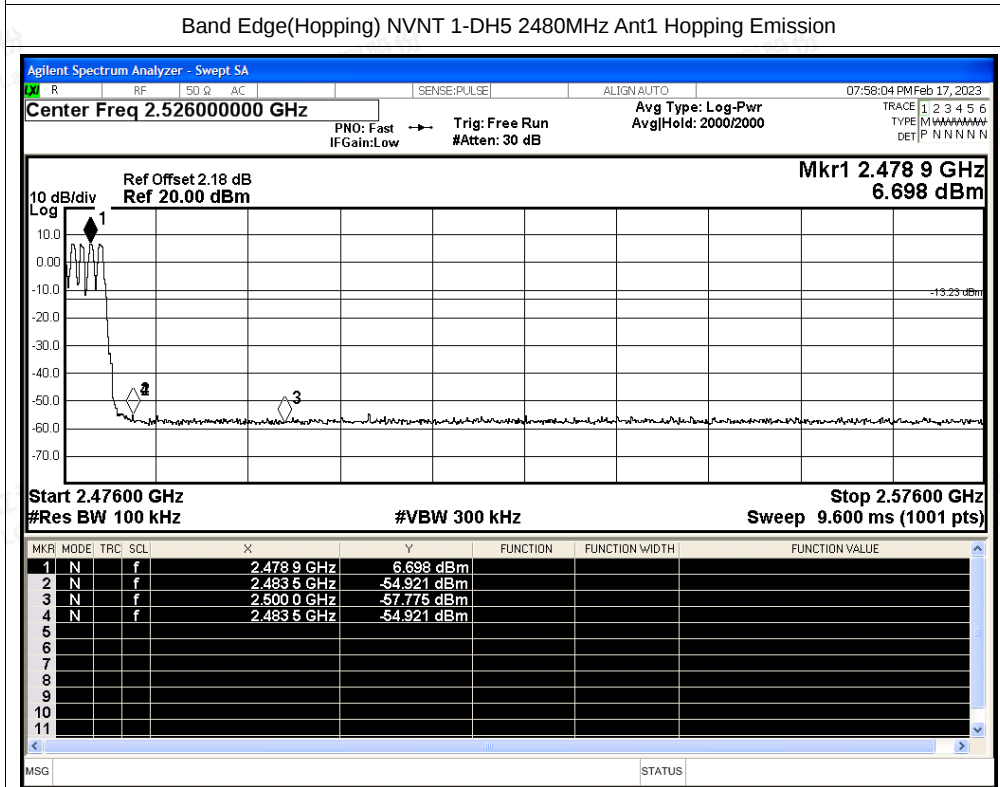
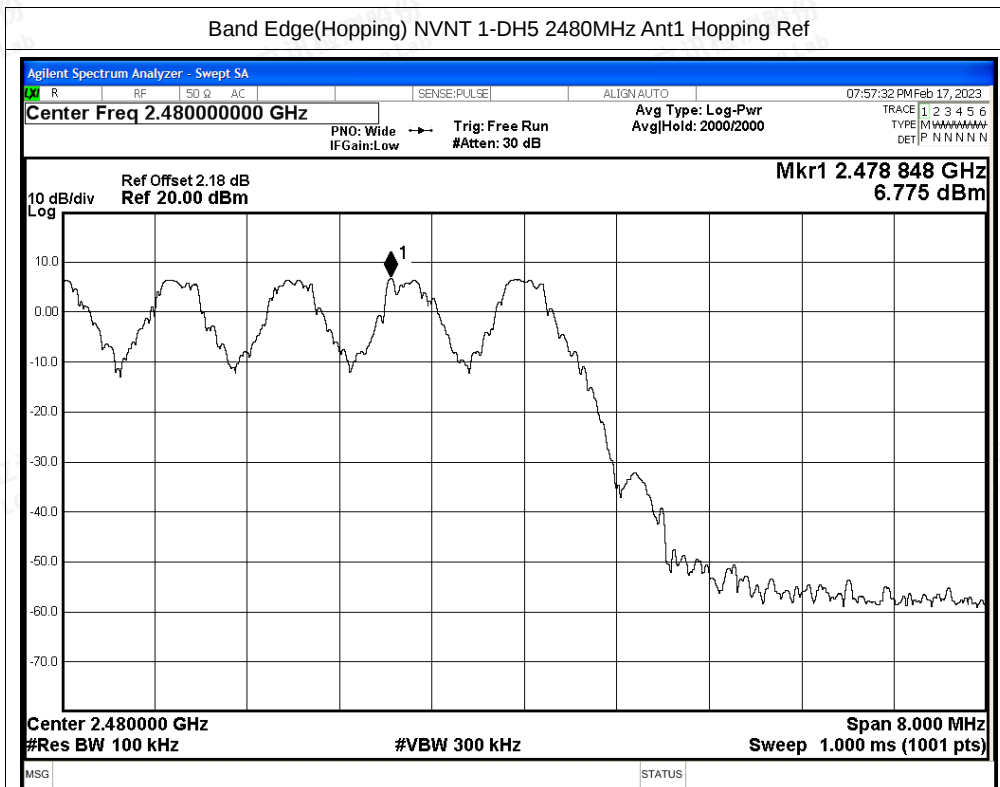
Test Graphs

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



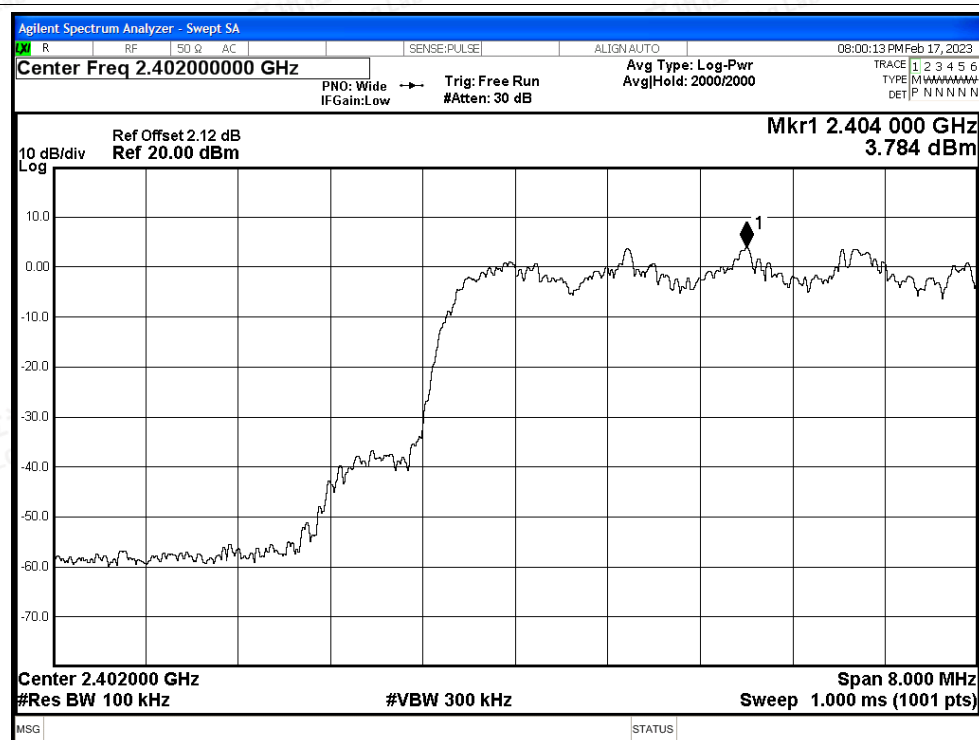
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



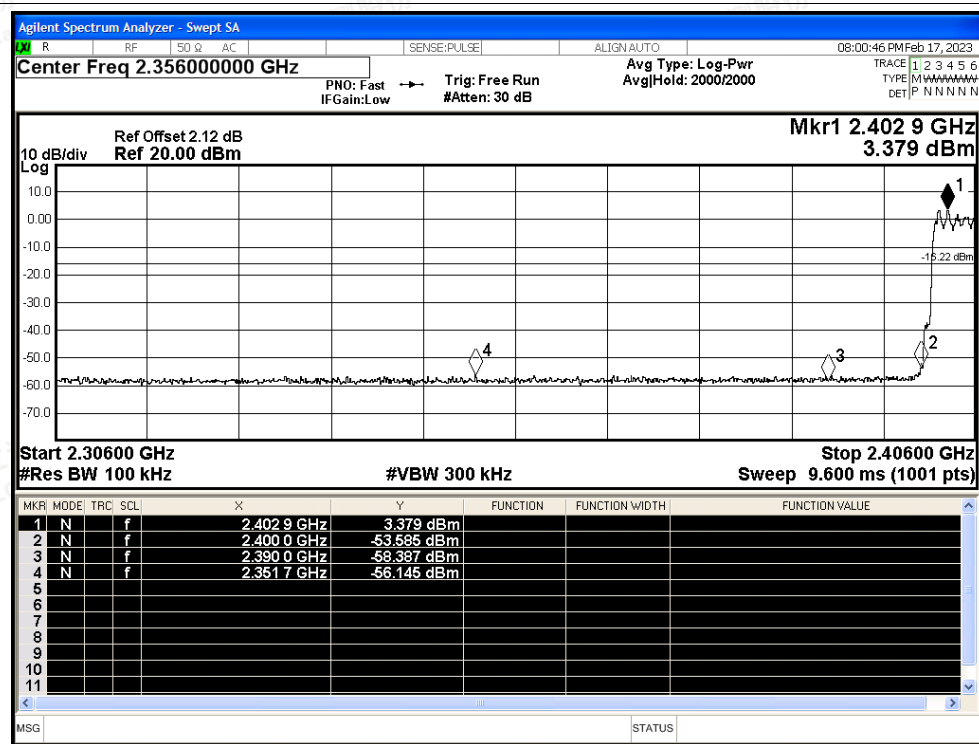


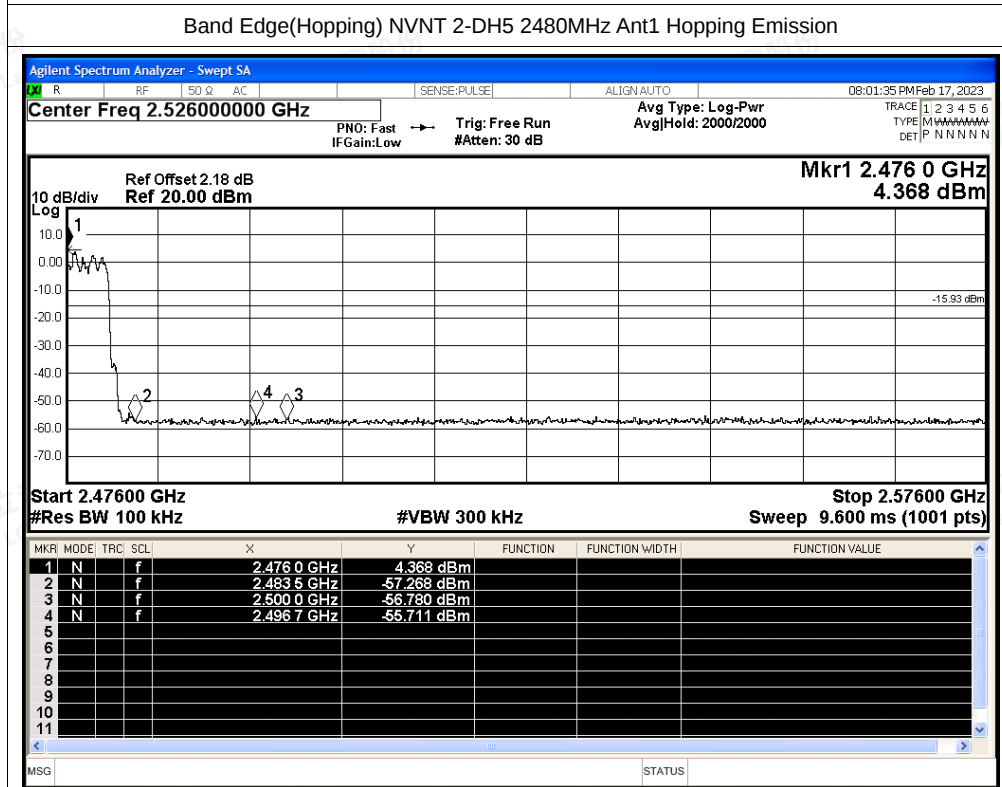
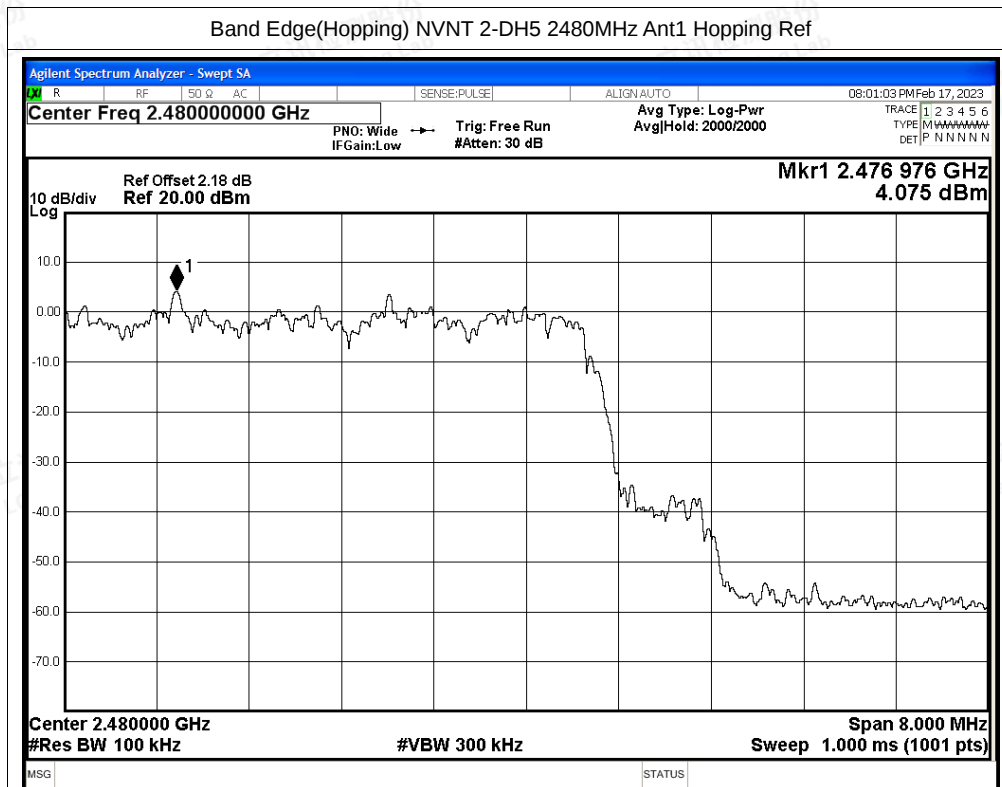


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



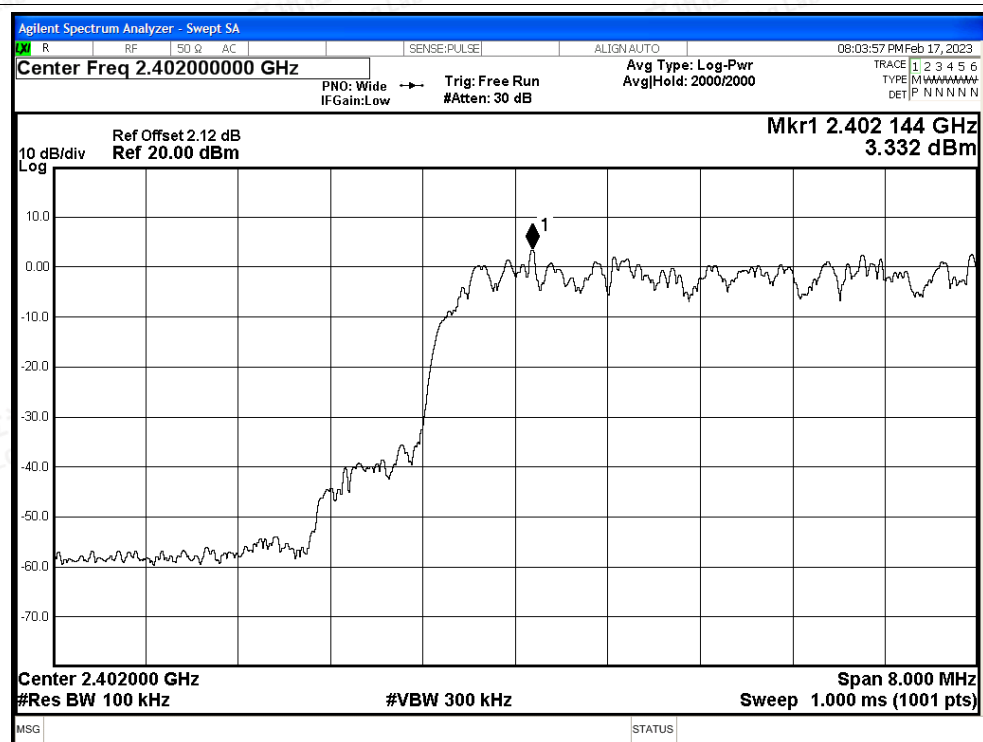
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



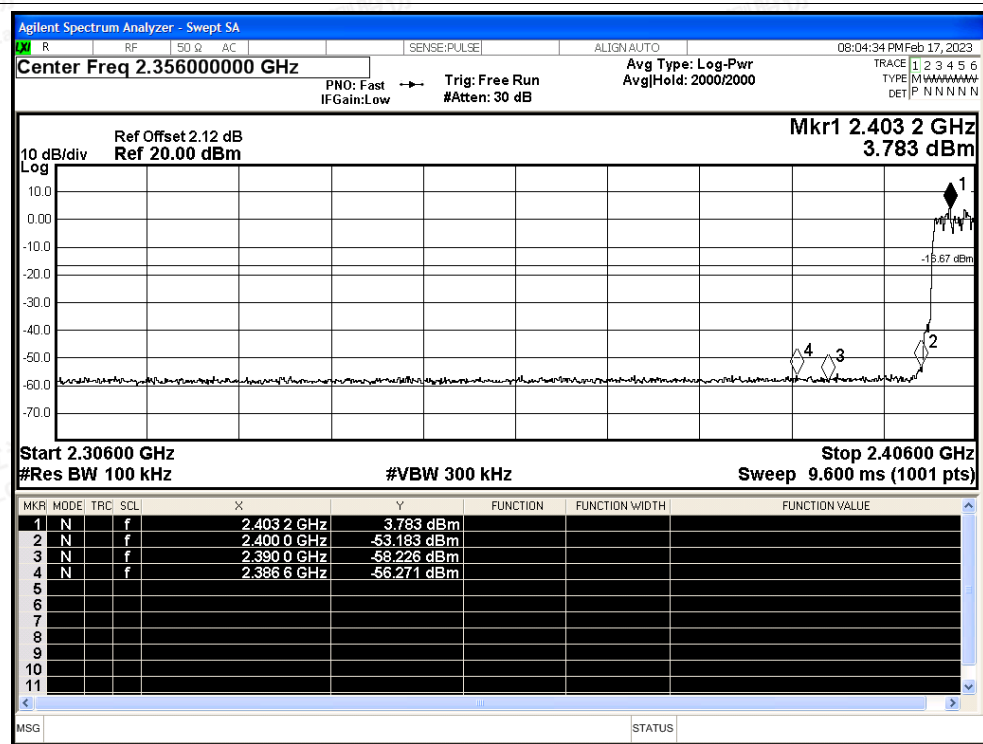


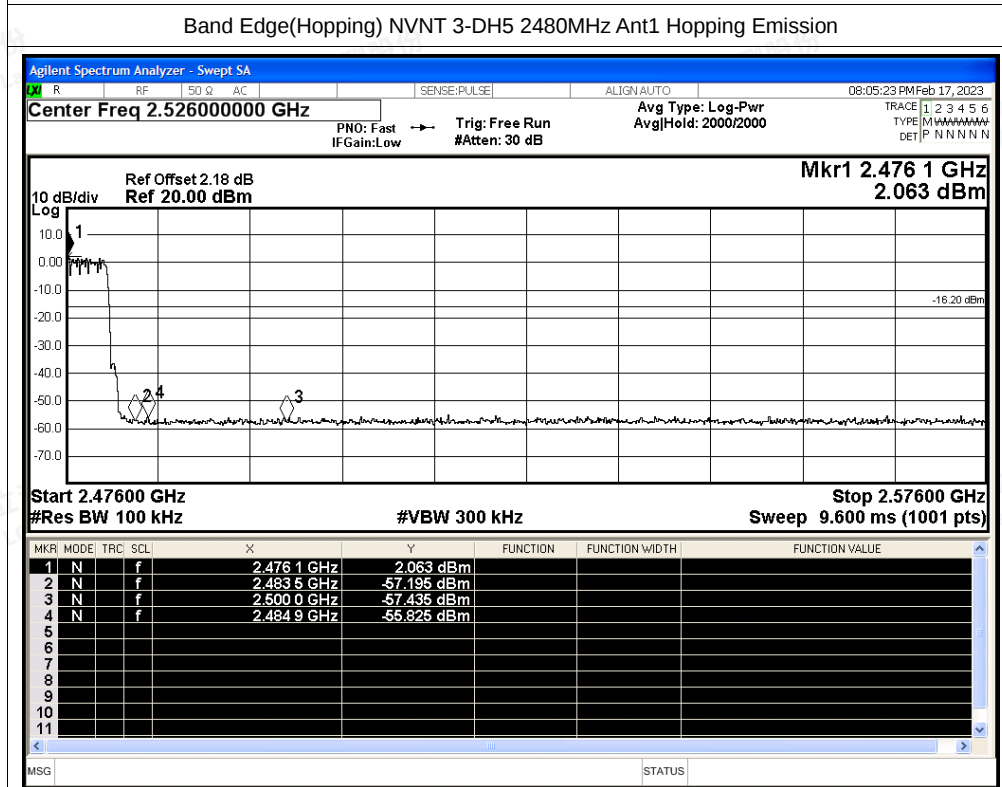
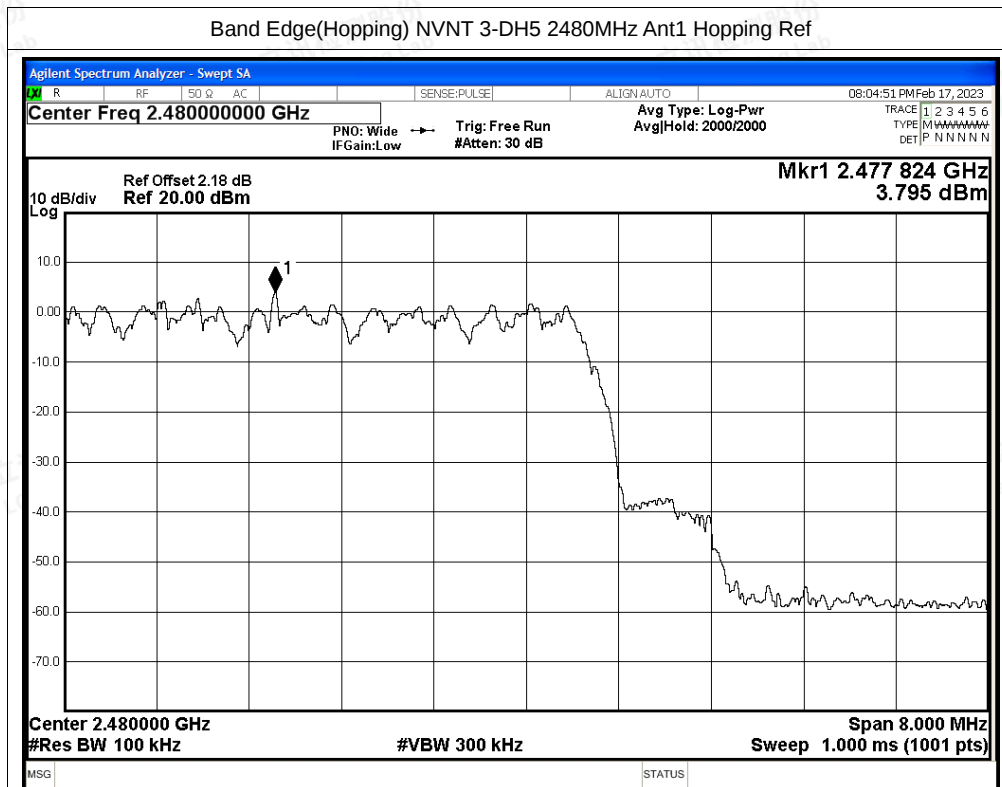


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-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	-43.8	-20	Pass
NVNT	1-DH5	2441	Ant1	-47.19	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.26	-20	Pass
NVNT	2-DH5	2402	Ant1	-46.58	-20	Pass
NVNT	2-DH5	2441	Ant1	-47.84	-20	Pass
NVNT	2-DH5	2480	Ant1	-50.74	-20	Pass
NVNT	3-DH5	2402	Ant1	-45.79	-20	Pass
NVNT	3-DH5	2441	Ant1	-48.98	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.11	-20	Pass

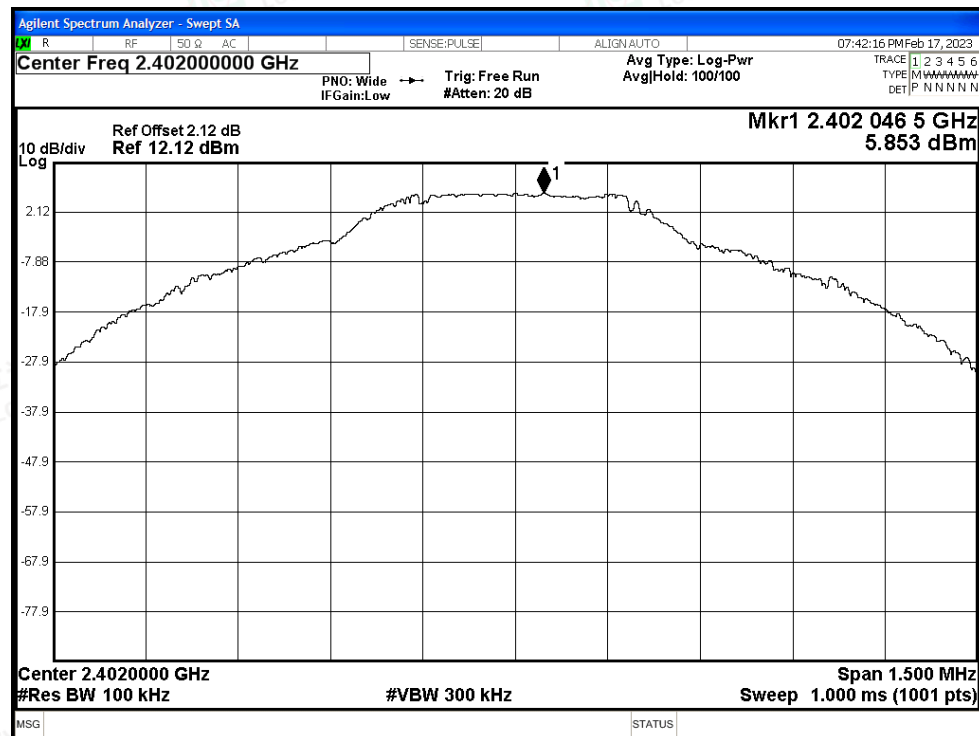


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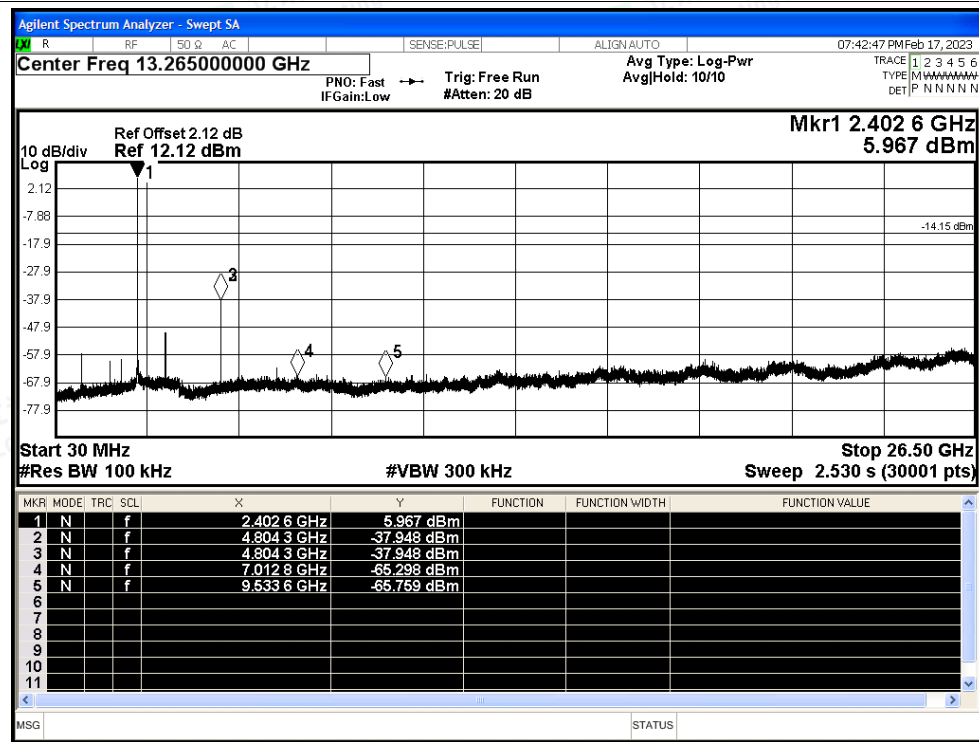


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

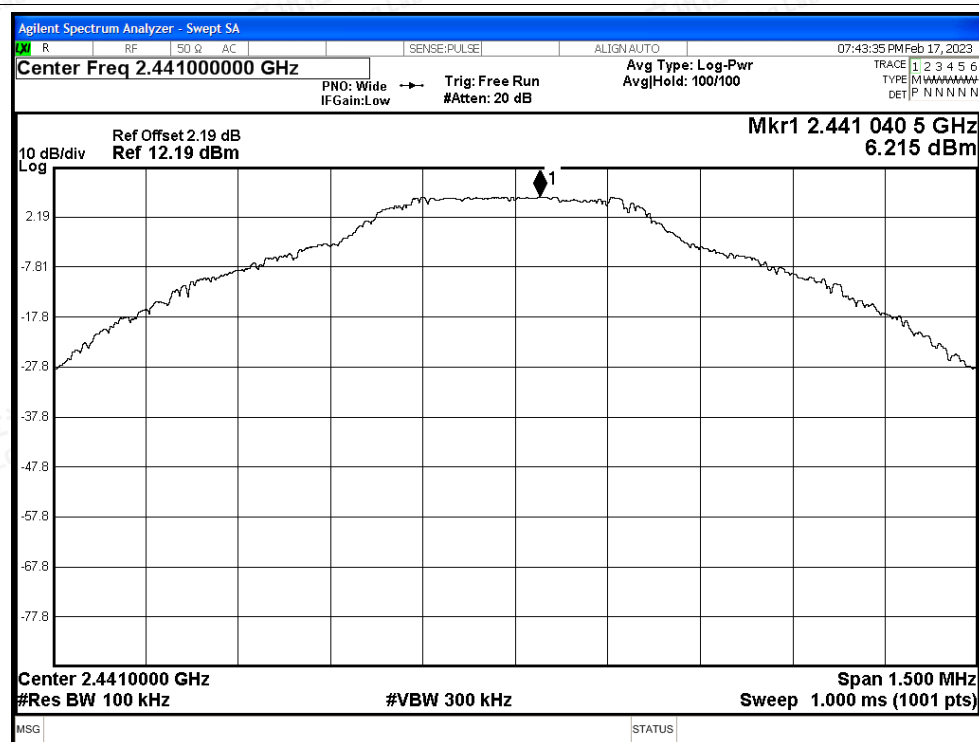


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

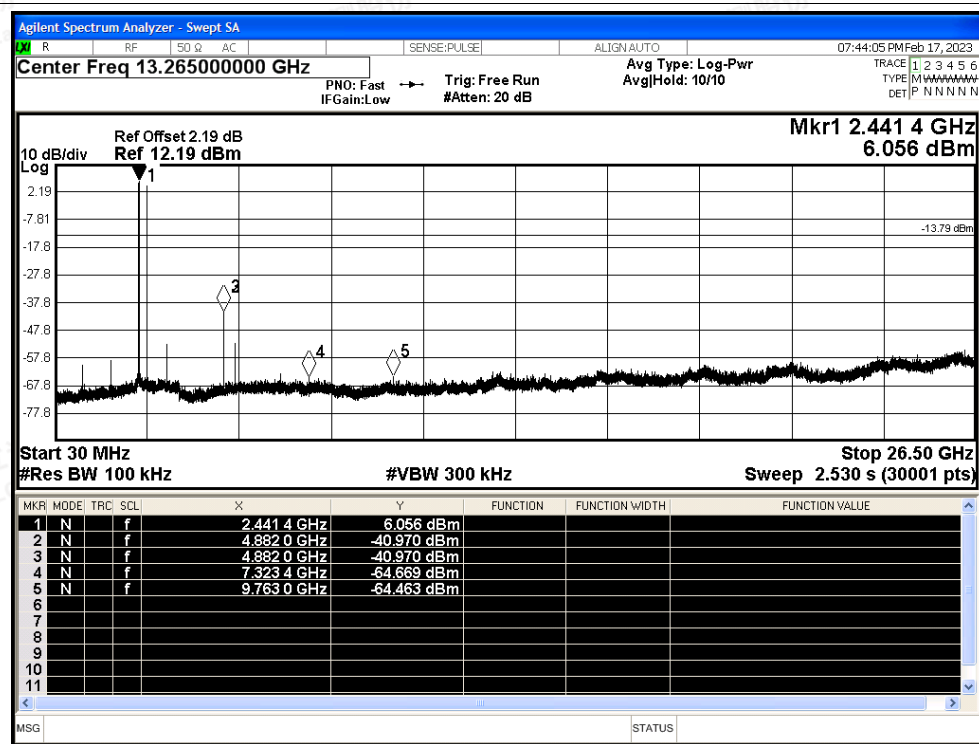




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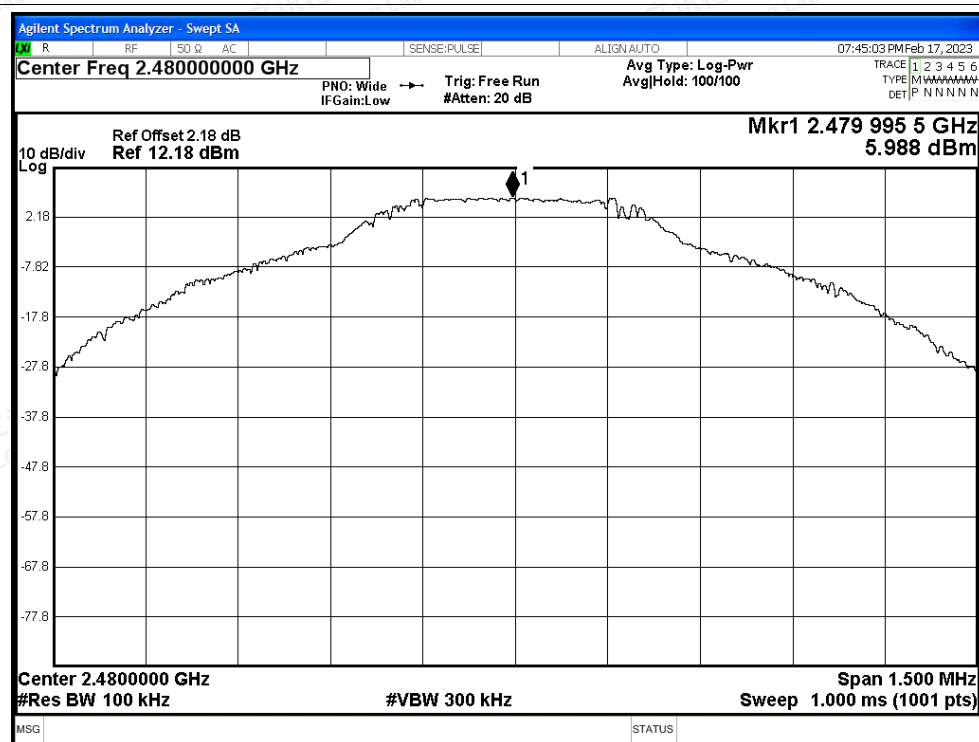


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

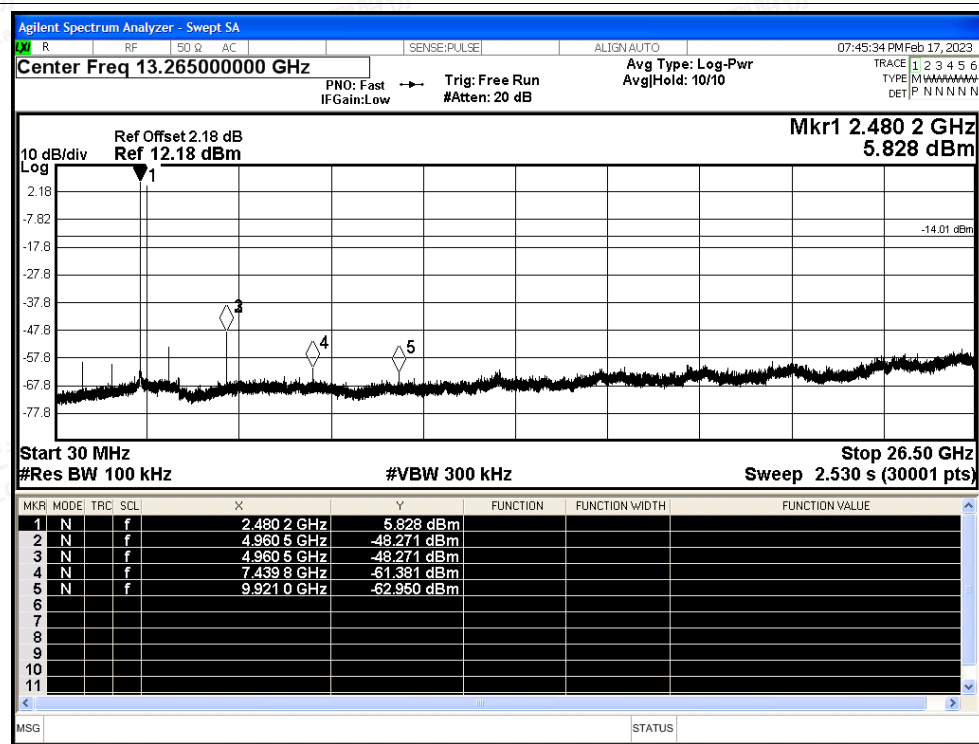




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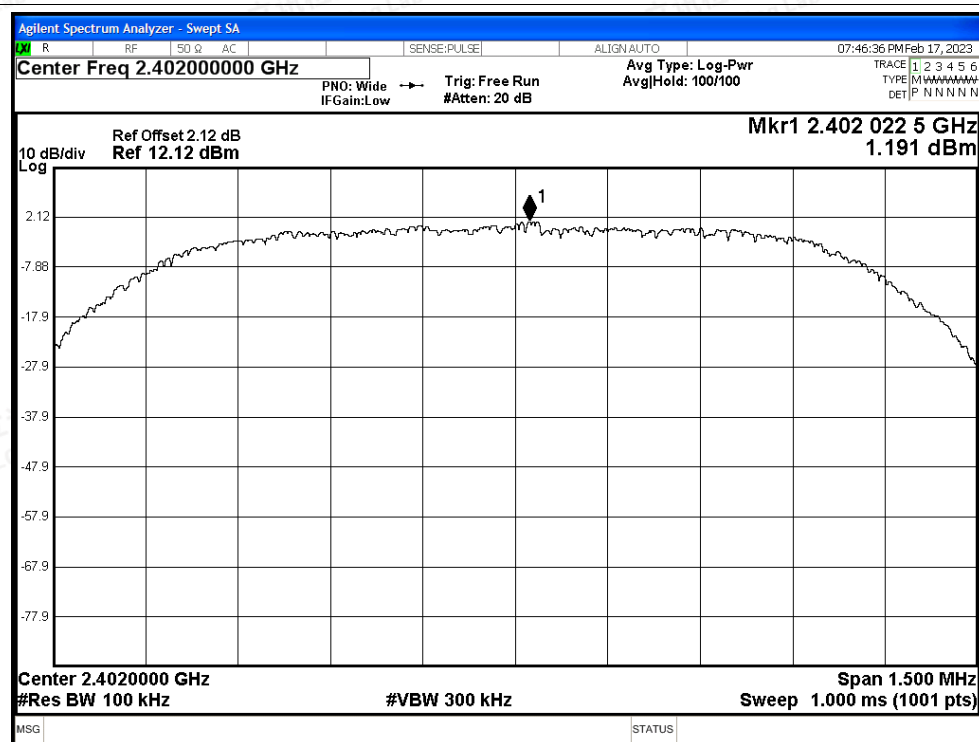


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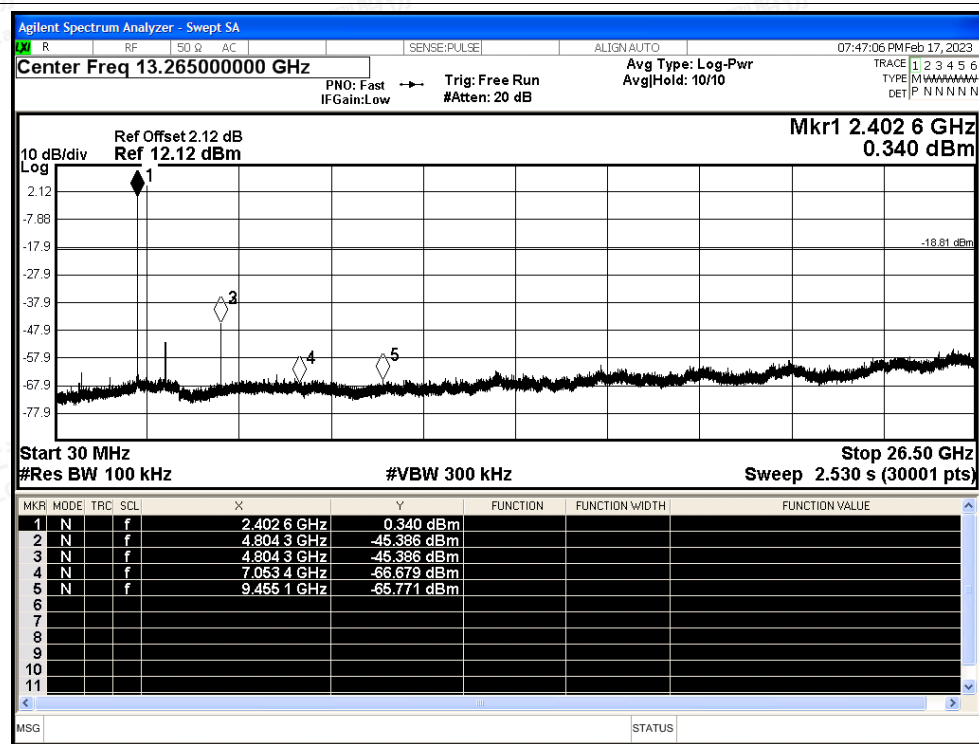




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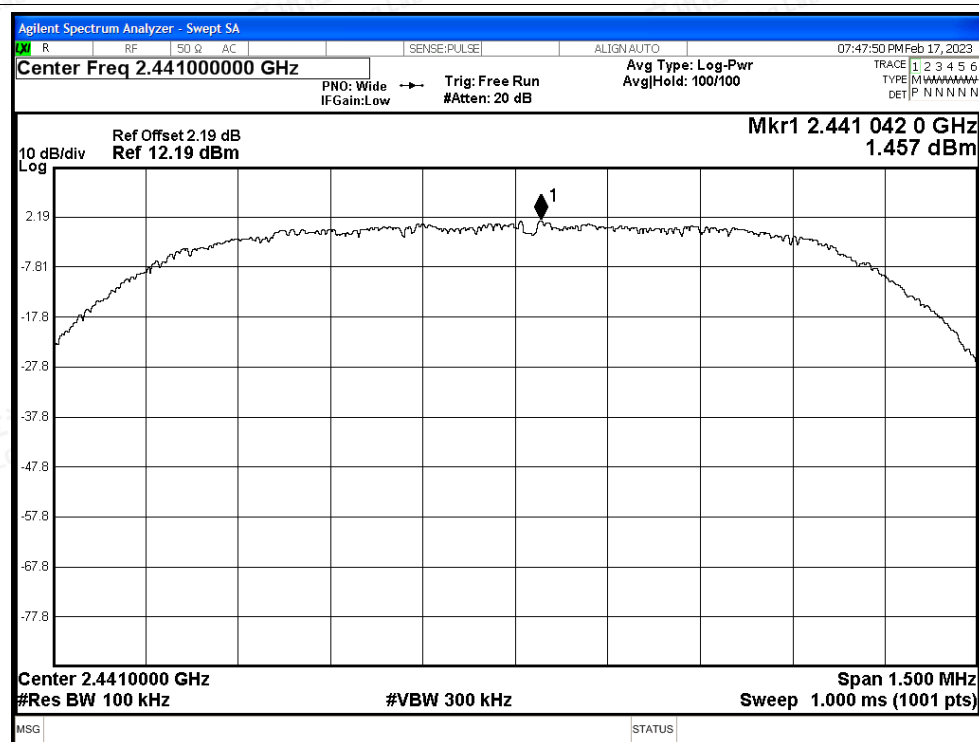


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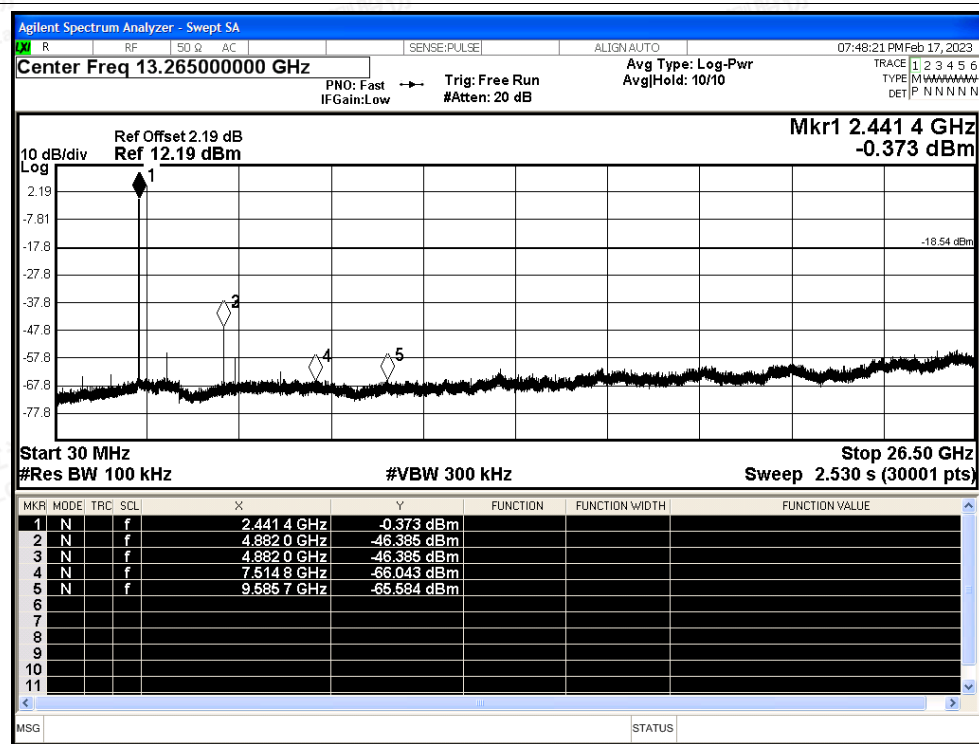




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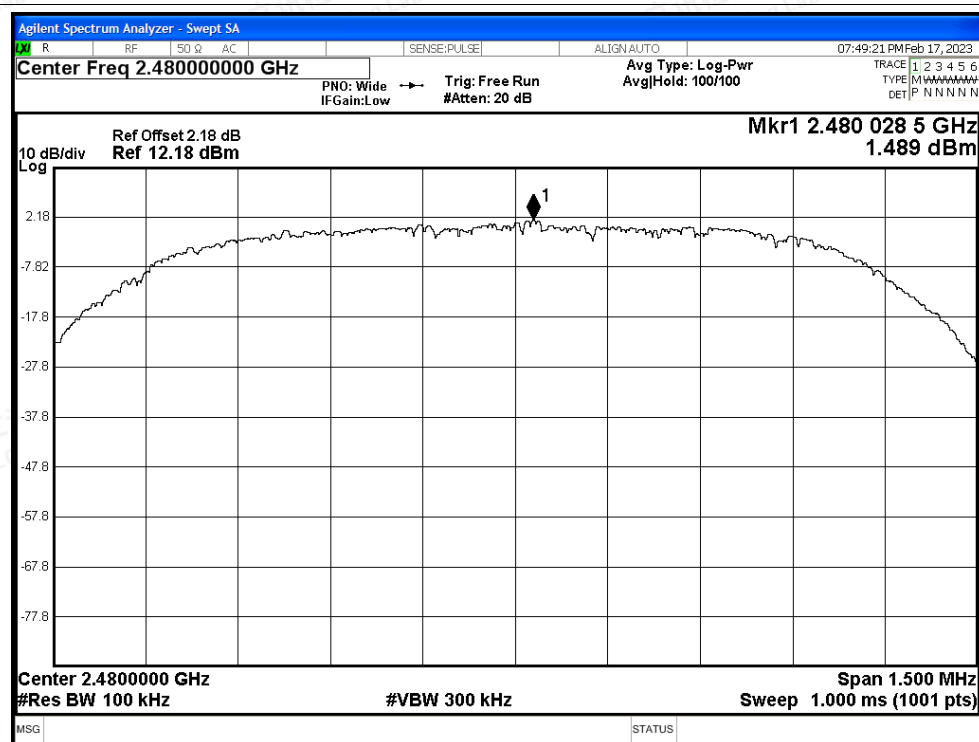


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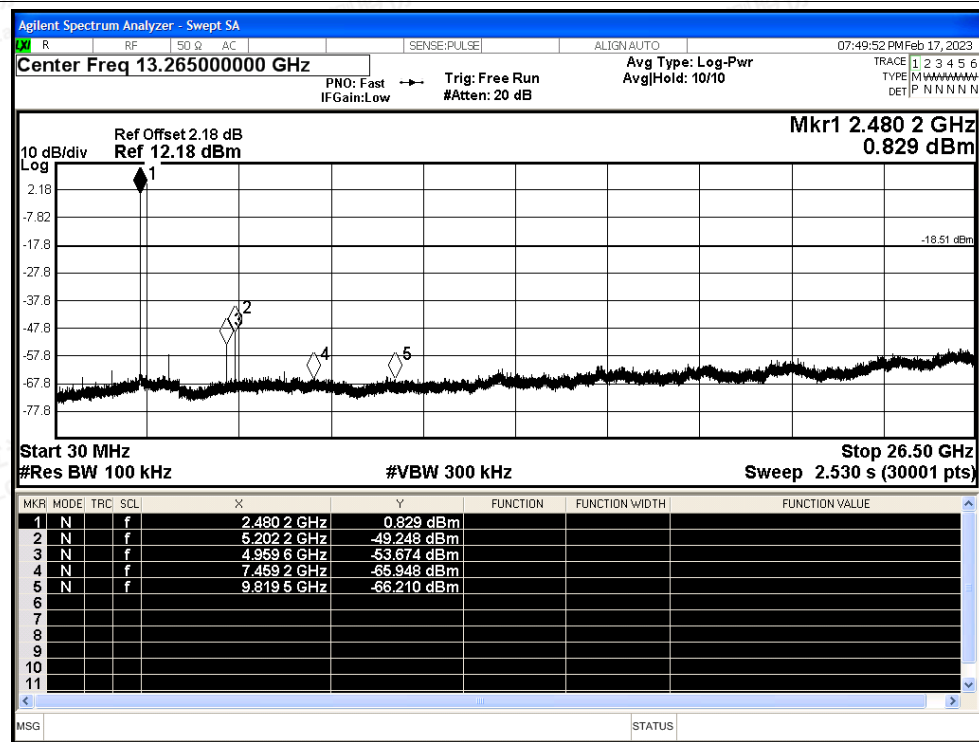




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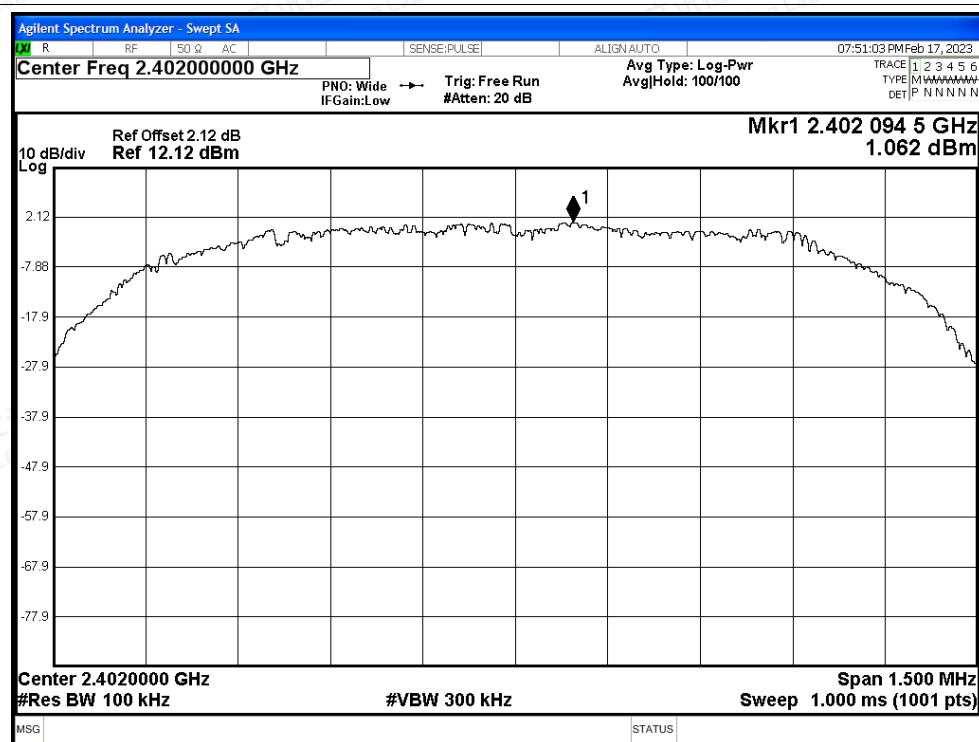


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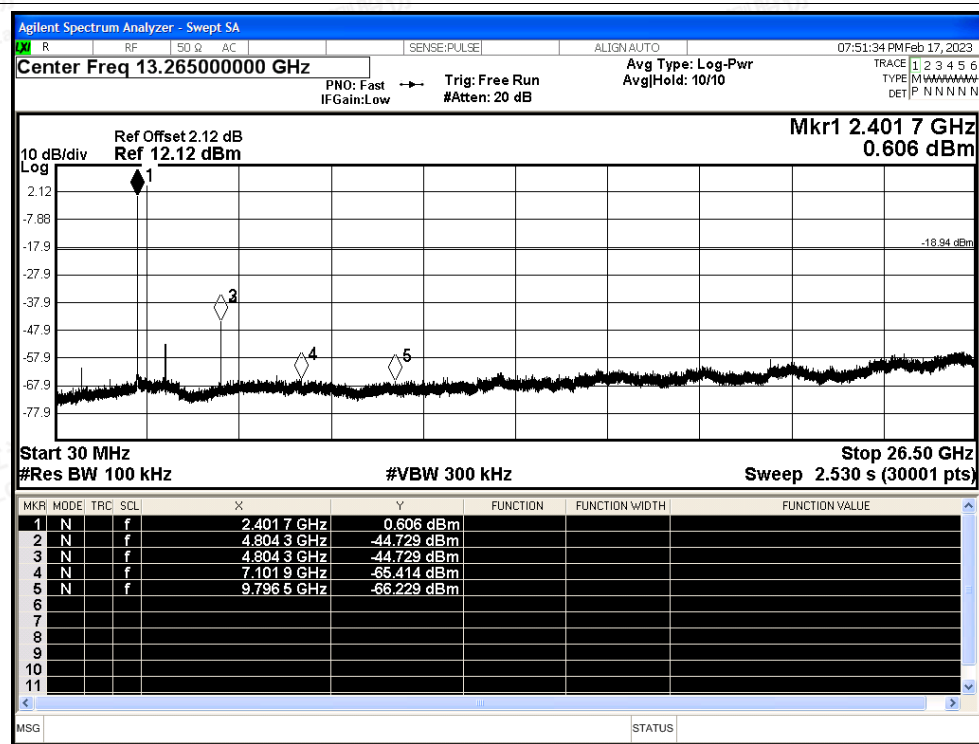




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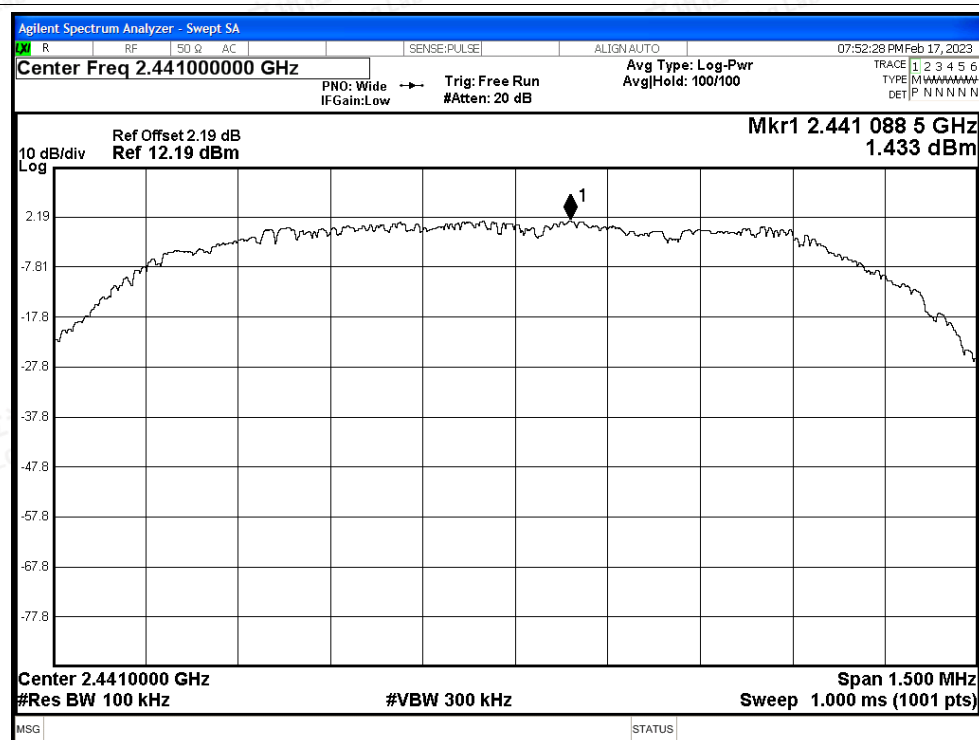


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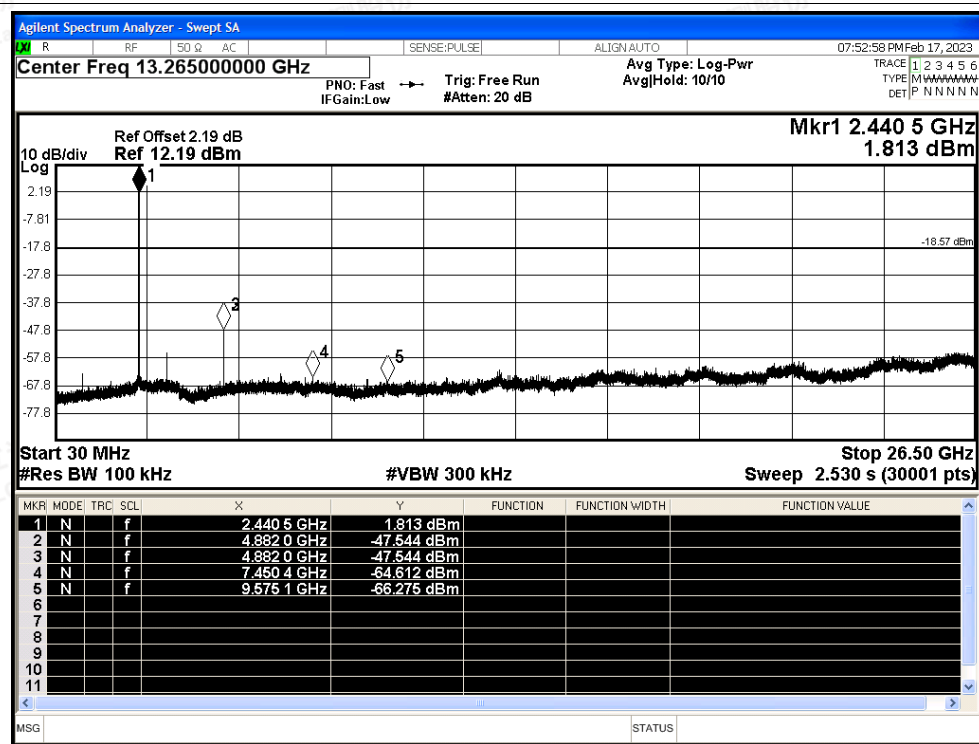




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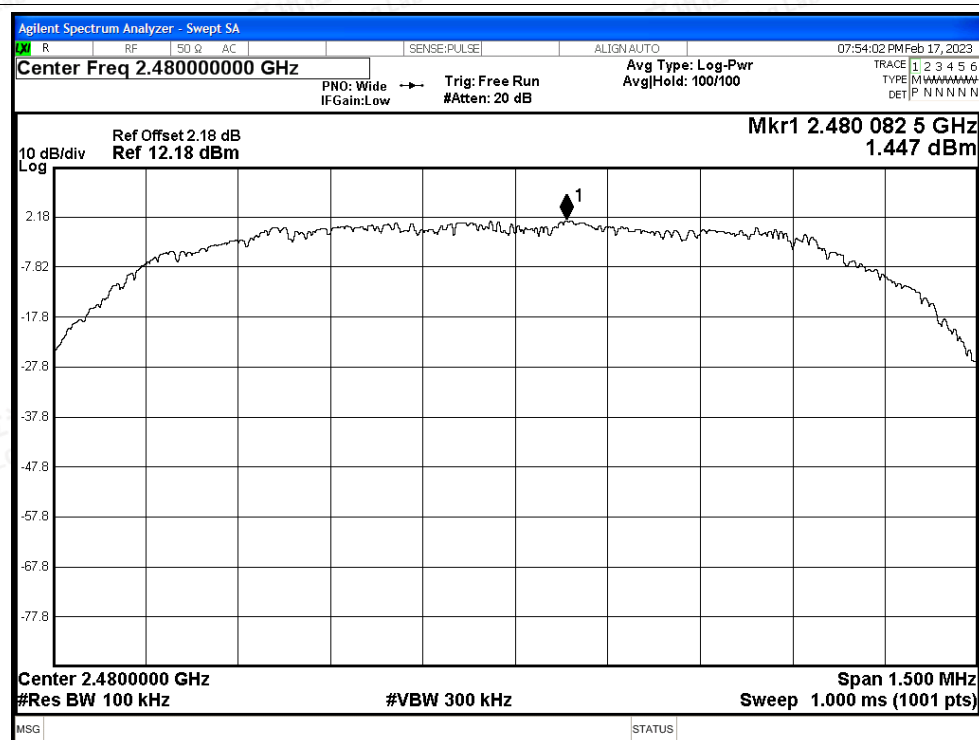


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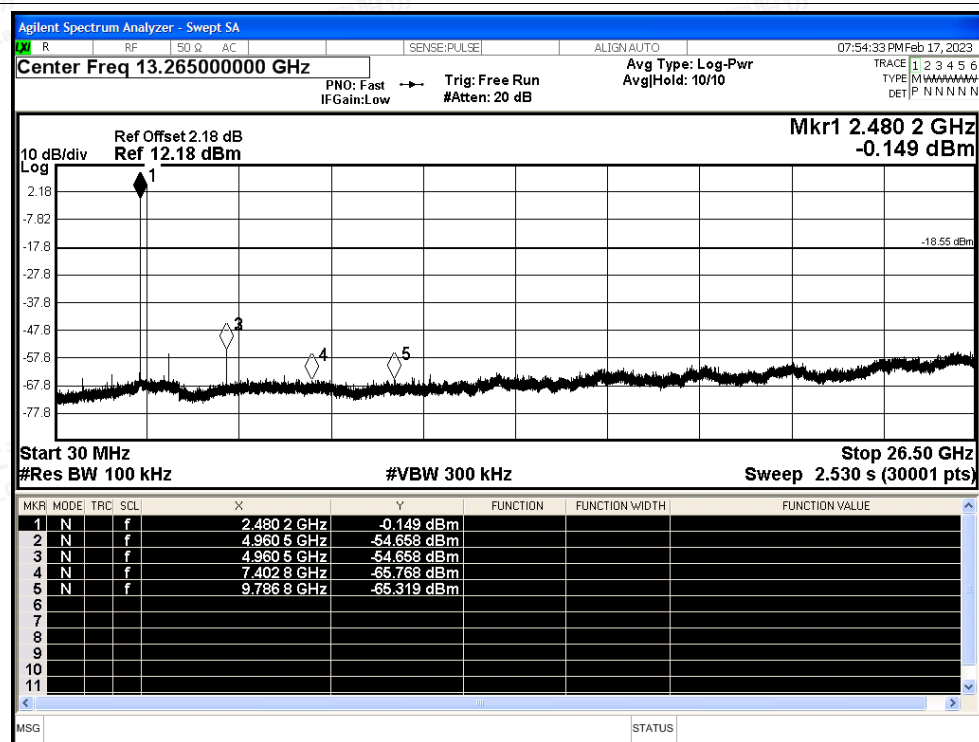




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-49.04	2	48.22	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.29	2	36.97	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2346.672	-46.61	2	50.65	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2389.968	-58.49	2	38.77	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.81	2	48.45	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.49	2	38.77	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.24	2	50.02	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.15	2	41.11	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.856	-44.92	2	52.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.15	2	41.11	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.2	2	47.06	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.18	2	38.08	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.19	2	48.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.23	2	37.03	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2378.064	-47.08	2	50.18	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.816	-59.08	2	38.18	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.26	2	47	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-59.32	2	37.94	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-46.15	2	51.11	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.45	2	39.81	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.608	-45.25	2	52.01	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.608	-57.43	2	39.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.57	2	48.69	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.46	2	37.8	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.2	2	47.06	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.47	2	36.79	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.296	-45.98	2	51.28	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.872	-59.14	2	38.12	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-49.57	2	47.69	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-59.25	2	38.01	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.57	2	49.69	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.31	2	39.95	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.848	-45.98	2	51.28	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-57.31	2	39.95	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.14	2	47.12	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.12	2	38.14	Average	54	Pass

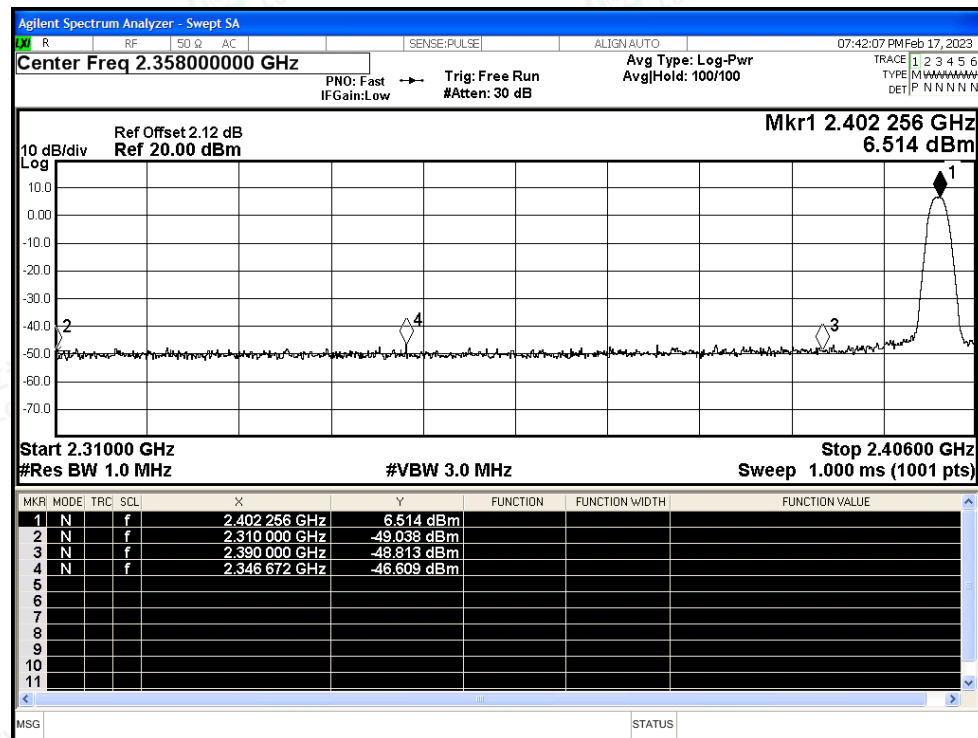


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Scan code to check authenticity

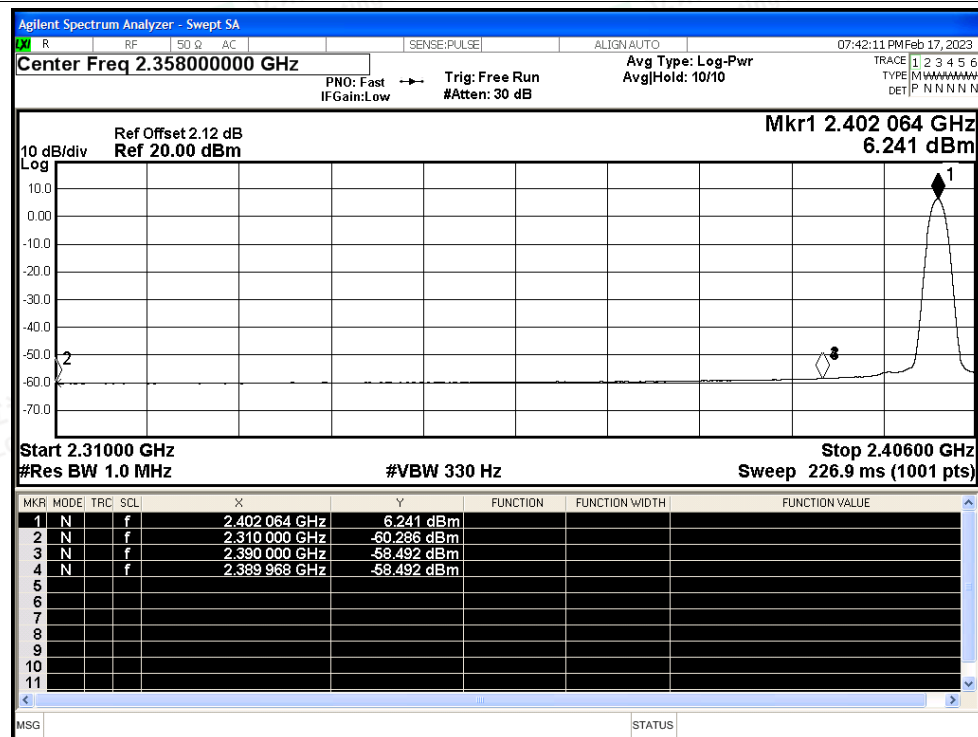


Test Graphs

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

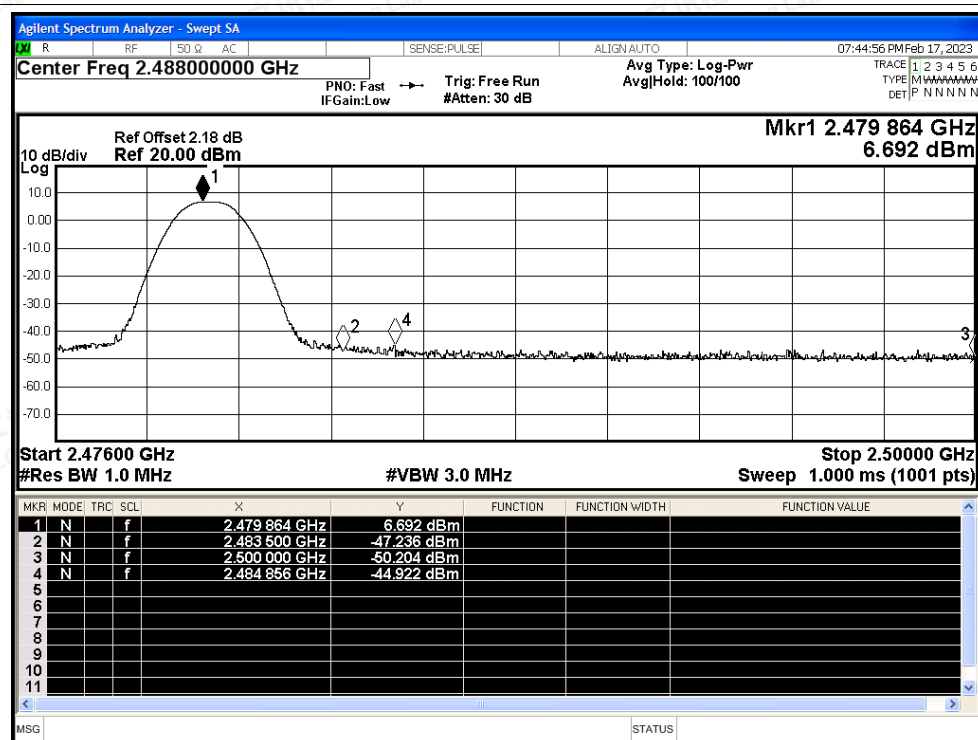


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

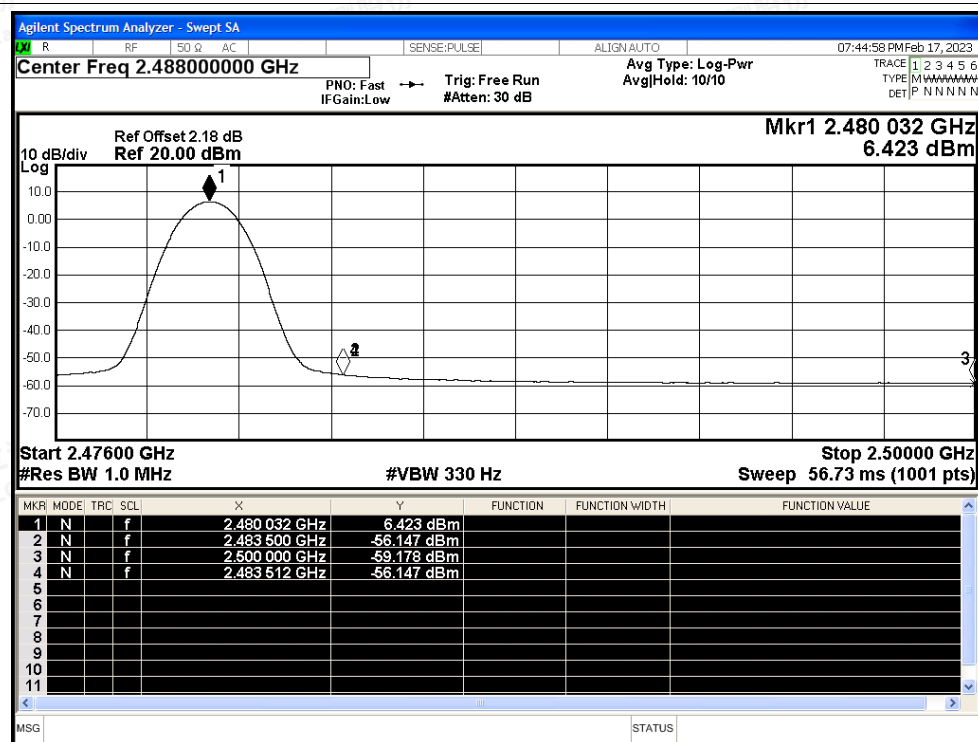


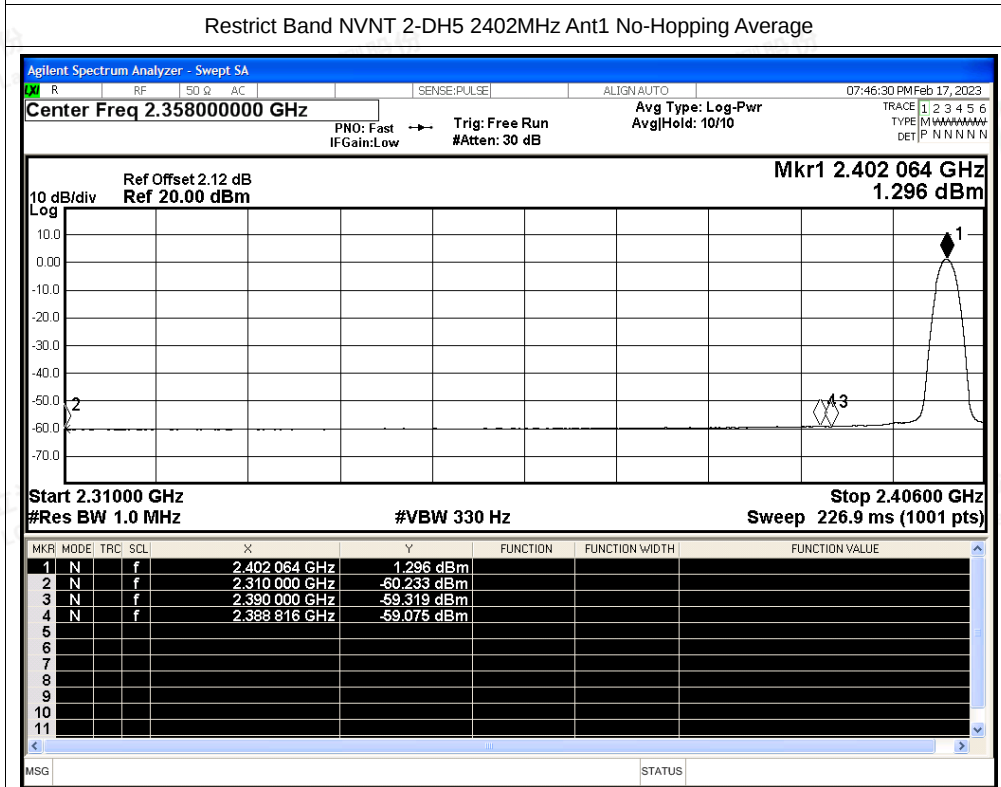
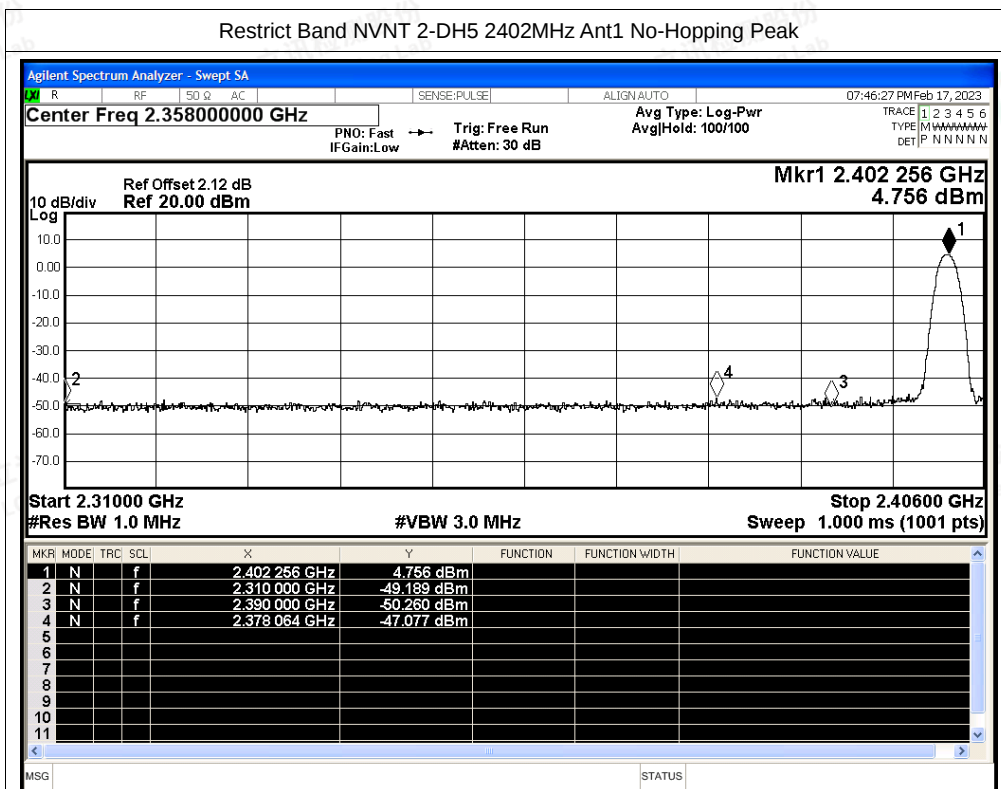


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



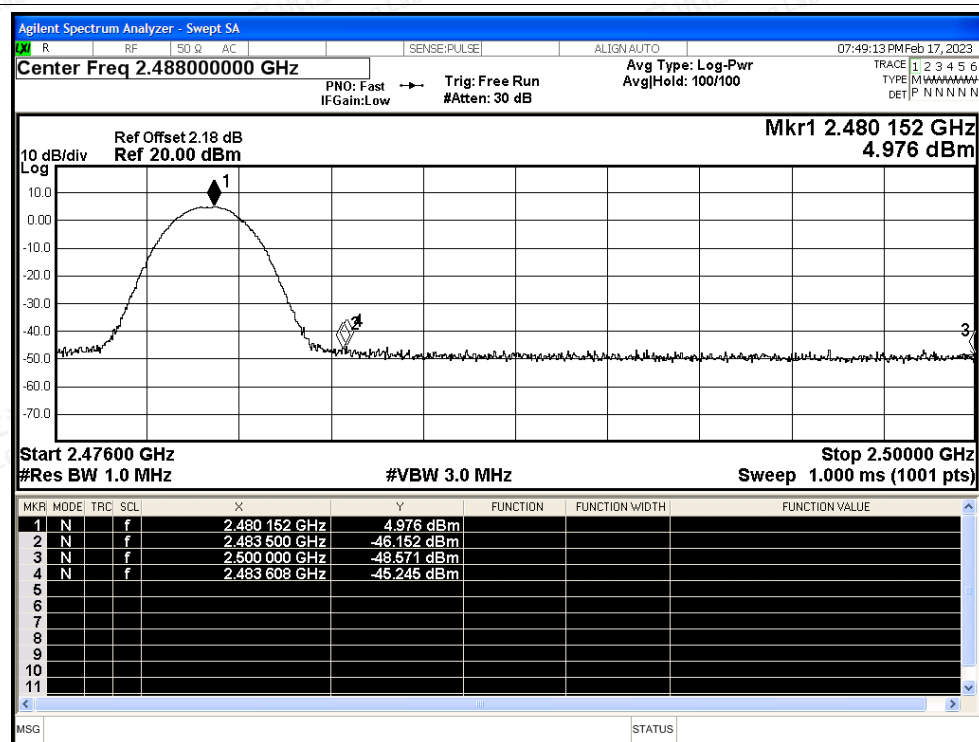
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



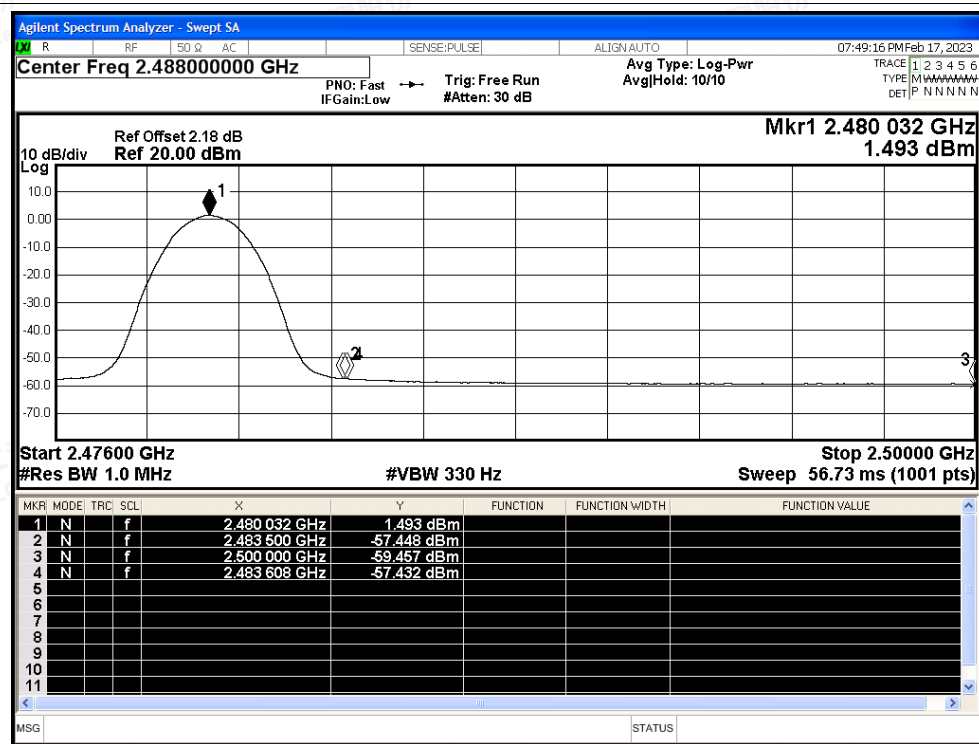




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

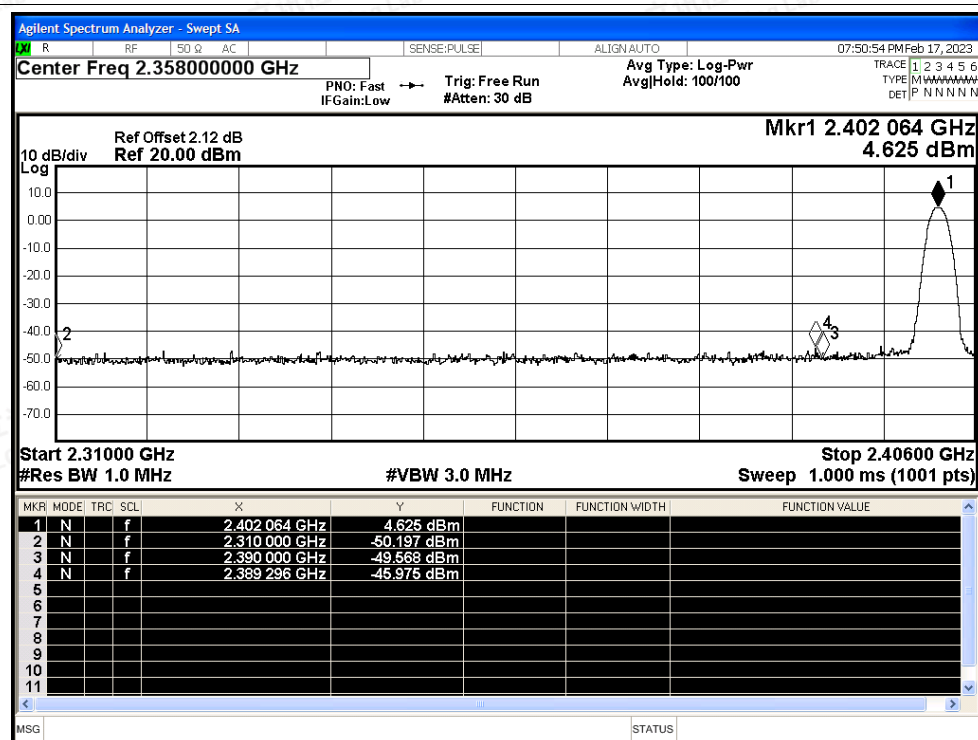


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

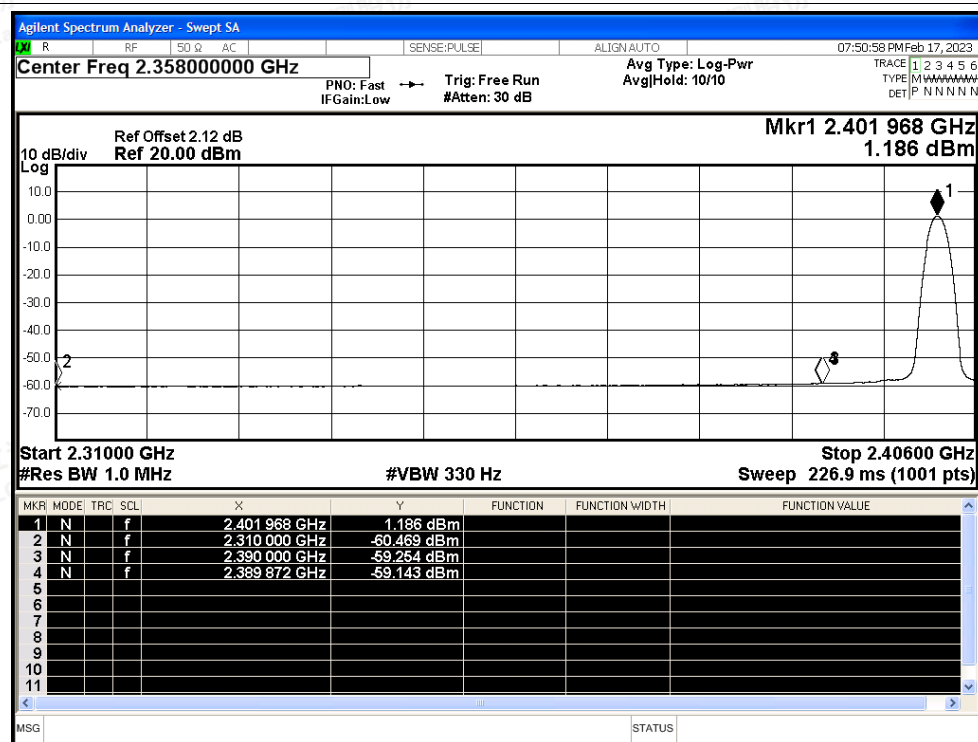




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

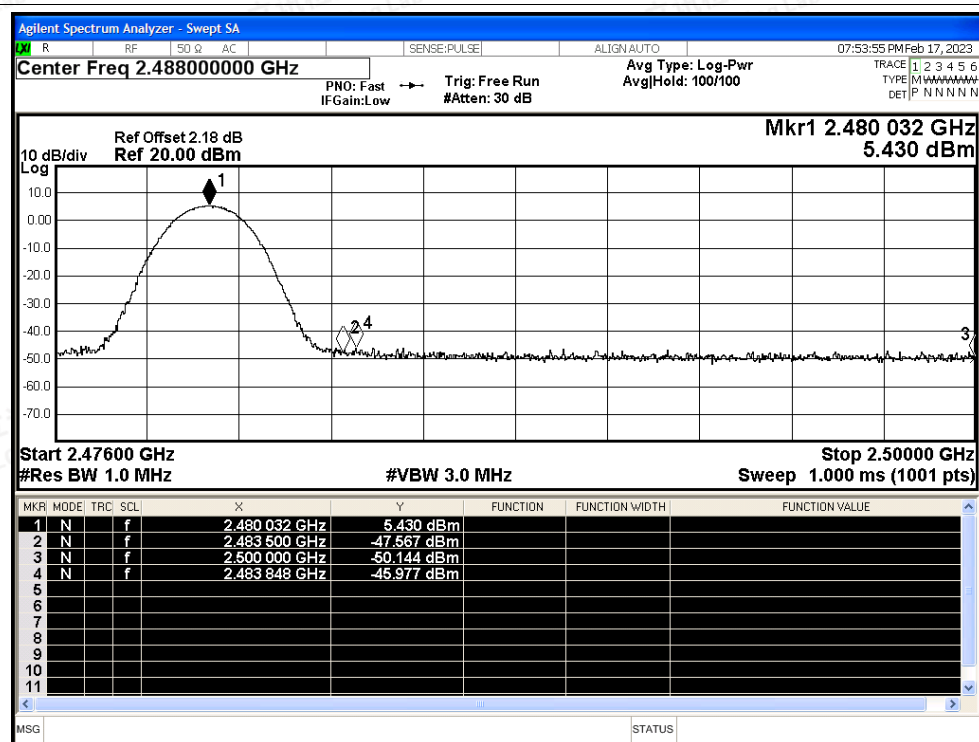


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

