



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Headphone

Test Model: L18

Environmental Conditions

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



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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	0.973	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.996	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.963	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.286	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.285	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.292	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.298	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.287	N/A	Pass

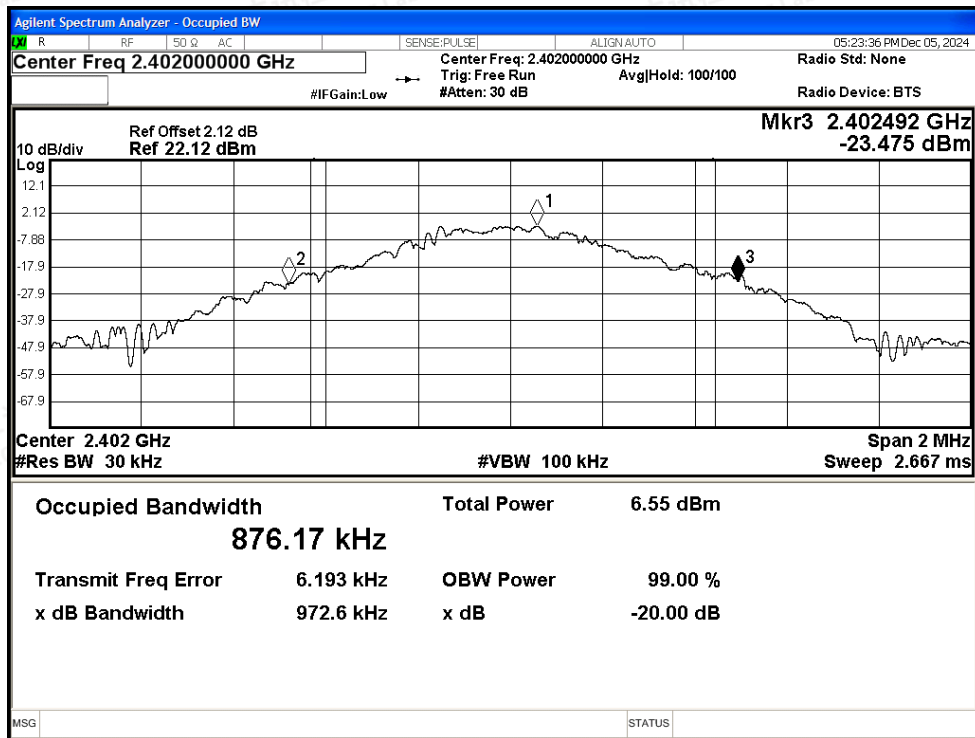


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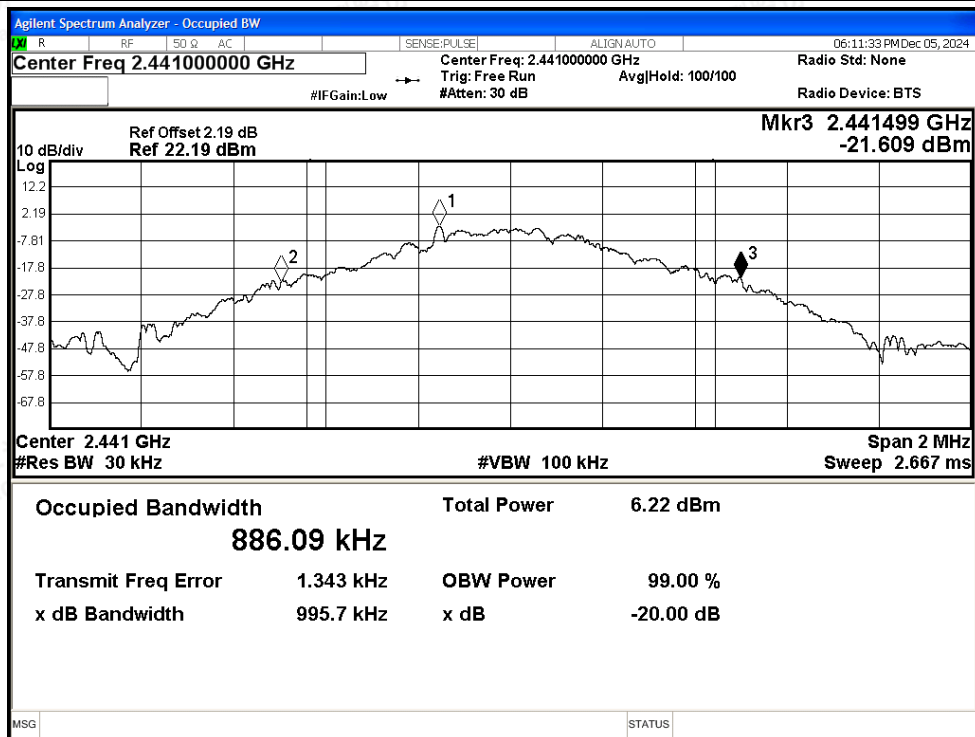


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

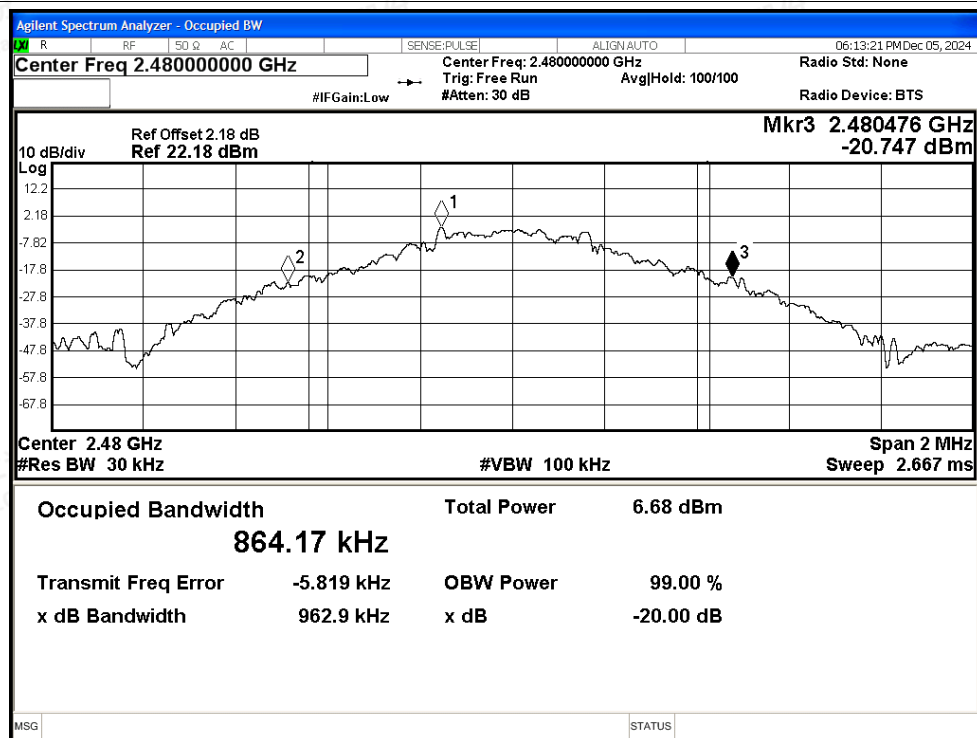


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

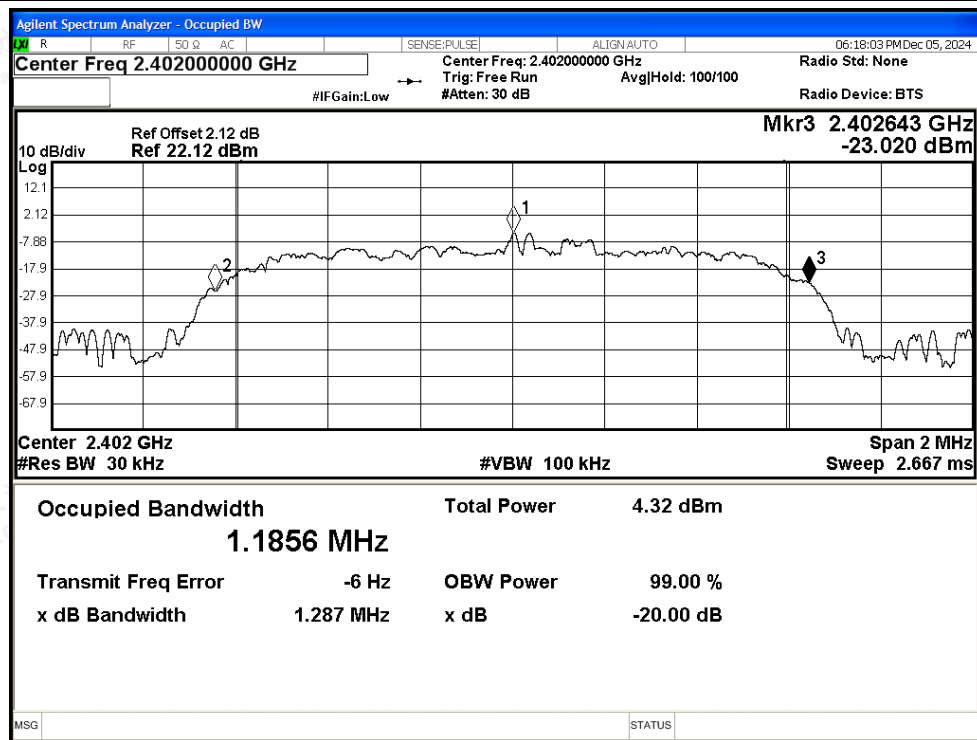




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

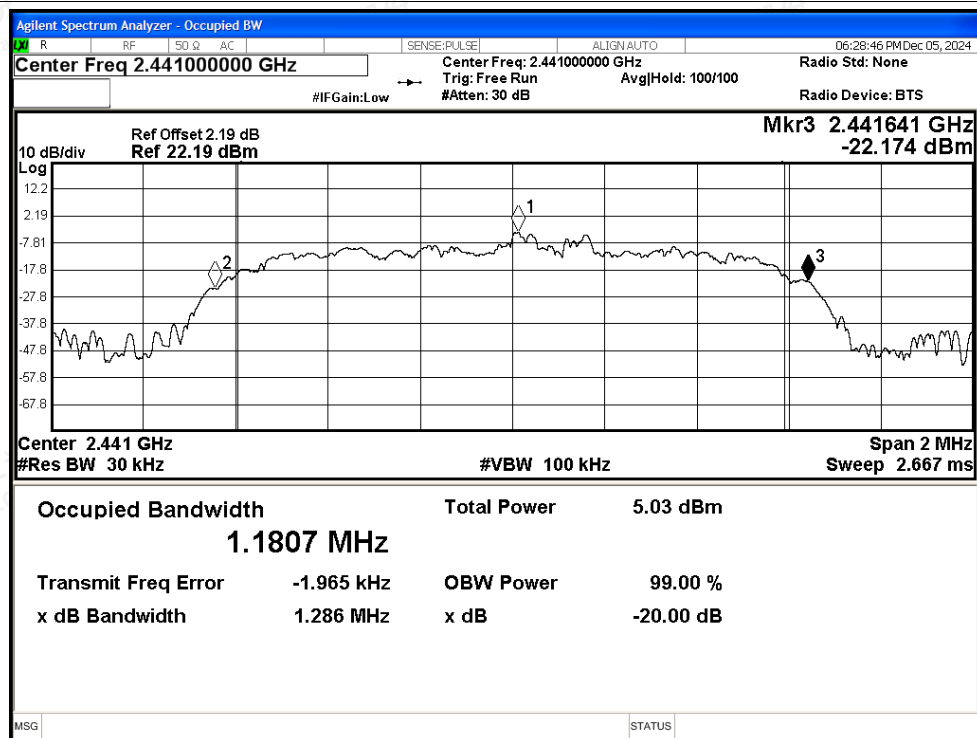


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

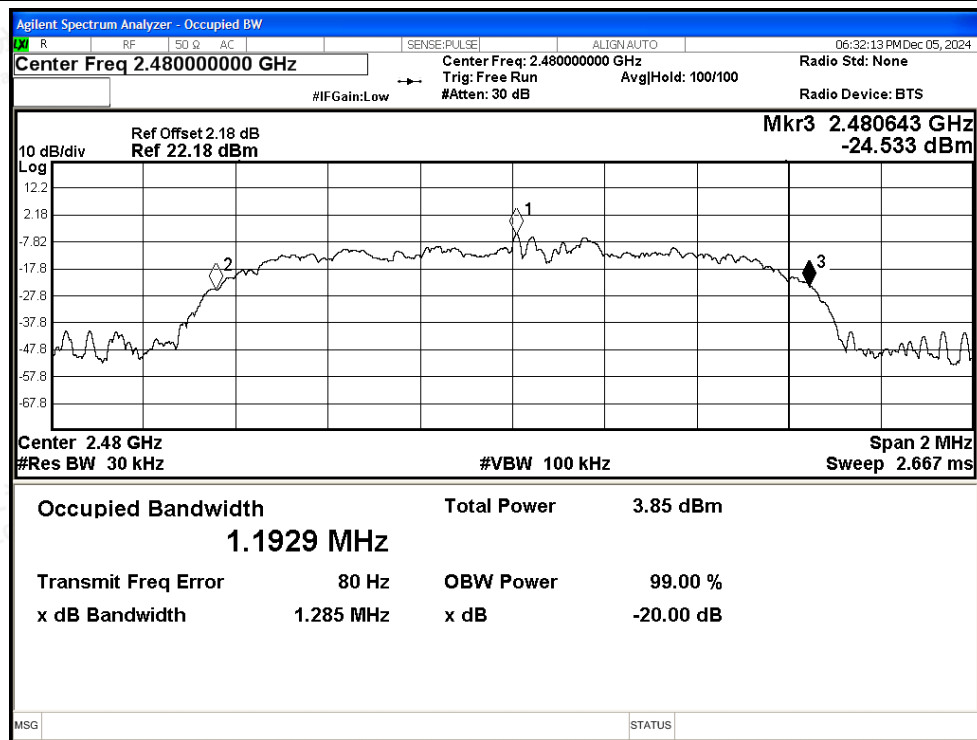




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

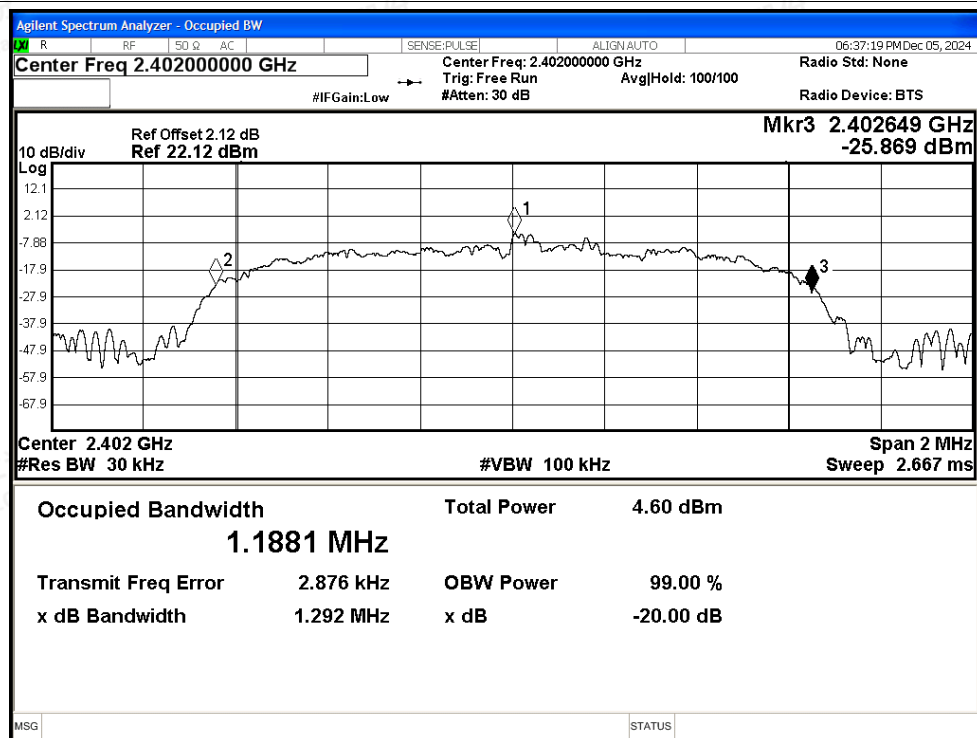


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

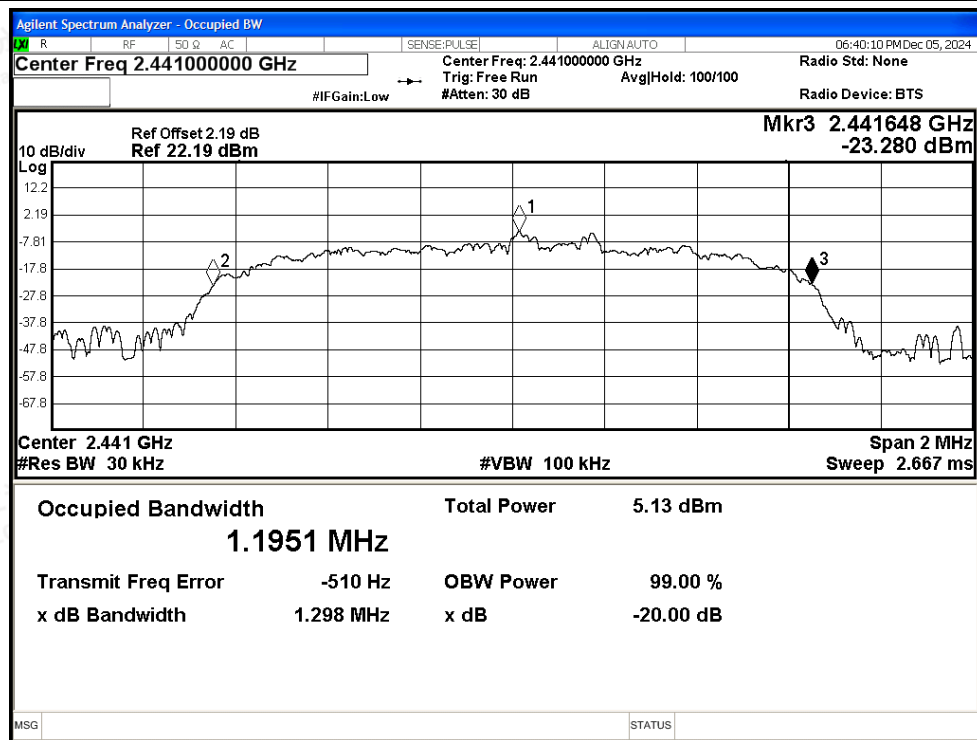


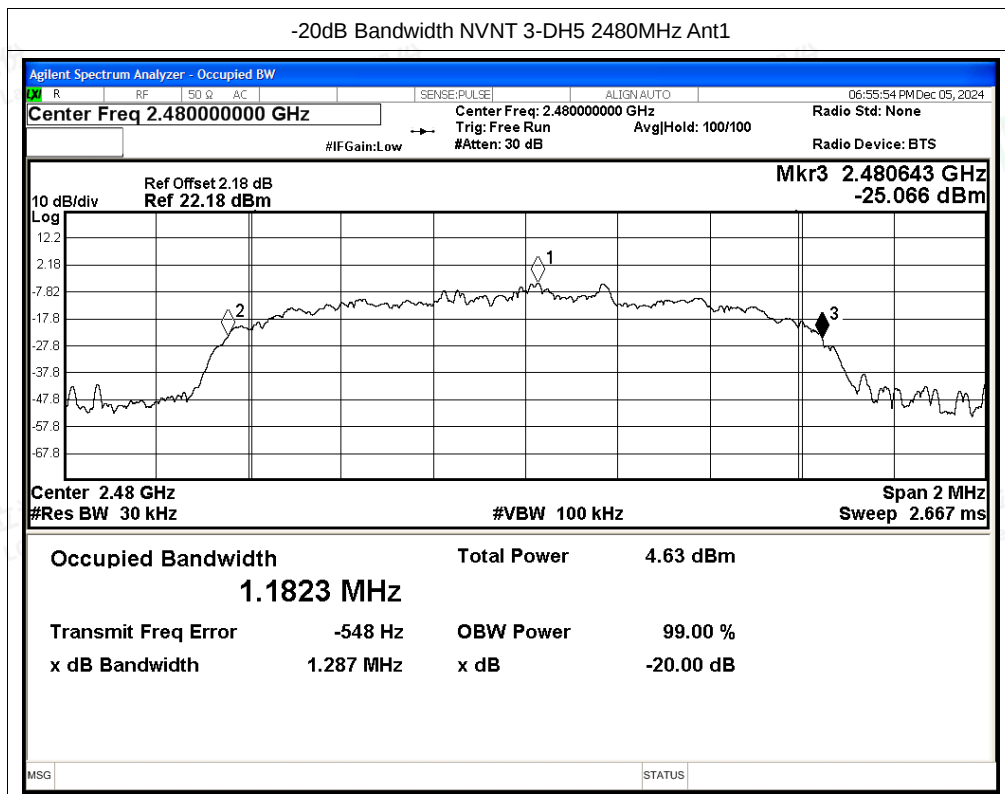


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-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	0.24	21	Pass
NVNT	1-DH5	2441	Ant1	-0.1	21	Pass
NVNT	1-DH5	2480	Ant1	0.05	21	Pass
NVNT	2-DH5	2402	Ant1	0	21	Pass
NVNT	2-DH5	2441	Ant1	0.5	21	Pass
NVNT	2-DH5	2480	Ant1	-0.4	21	Pass
NVNT	3-DH5	2402	Ant1	0.51	21	Pass
NVNT	3-DH5	2441	Ant1	0.9	21	Pass
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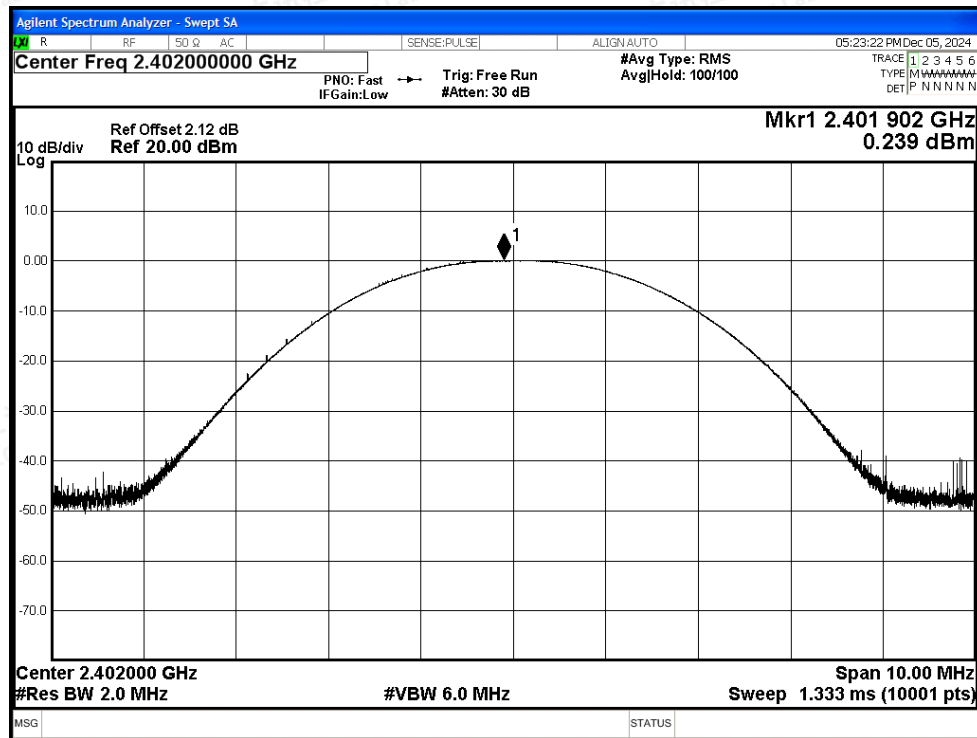


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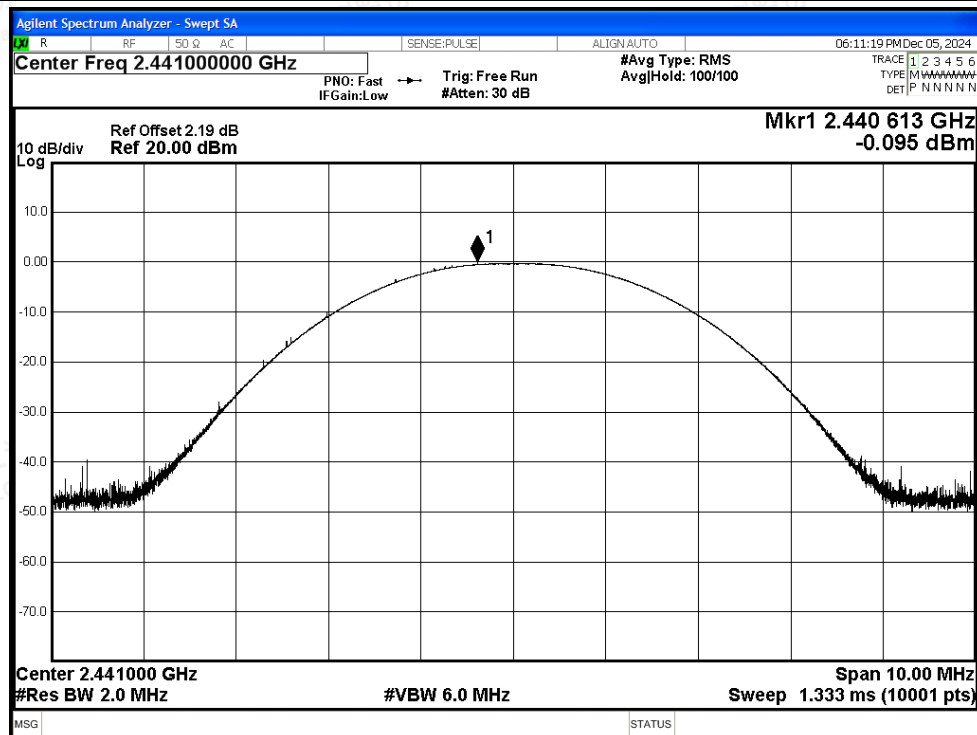


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

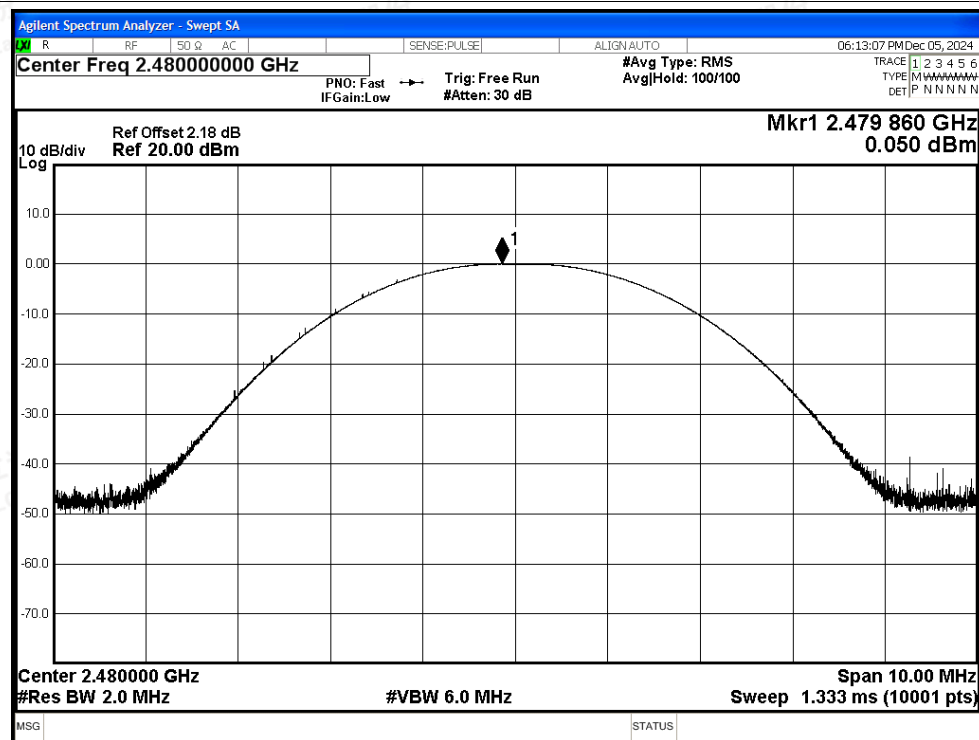


Power NVNT 1-DH5 2441MHz Ant1

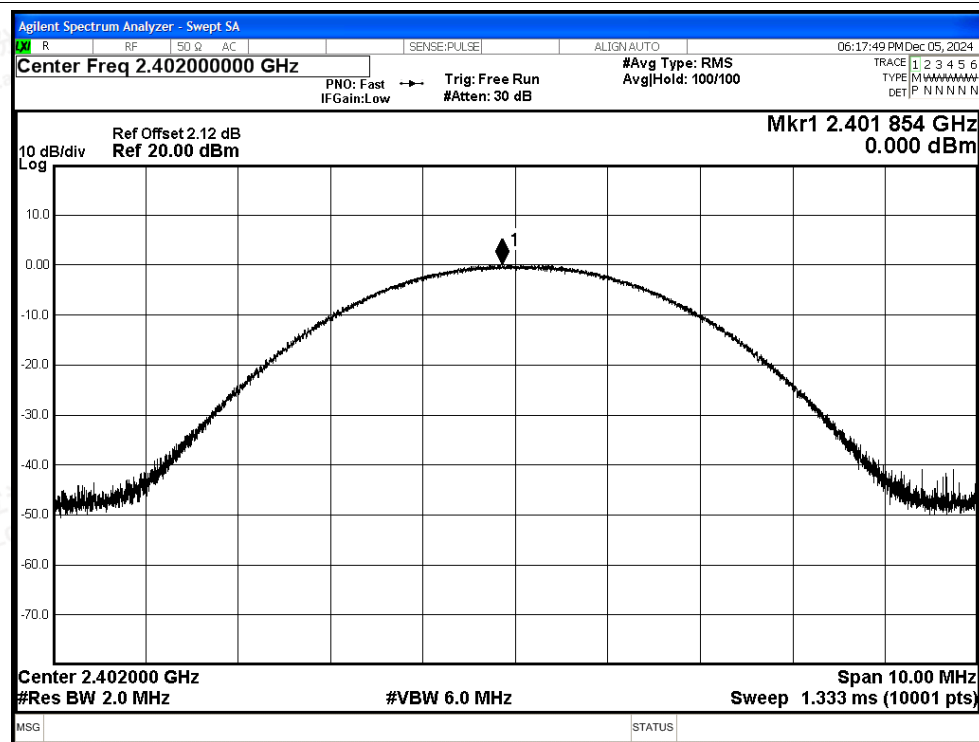




Power NVNT 1-DH5 2480MHz Ant1

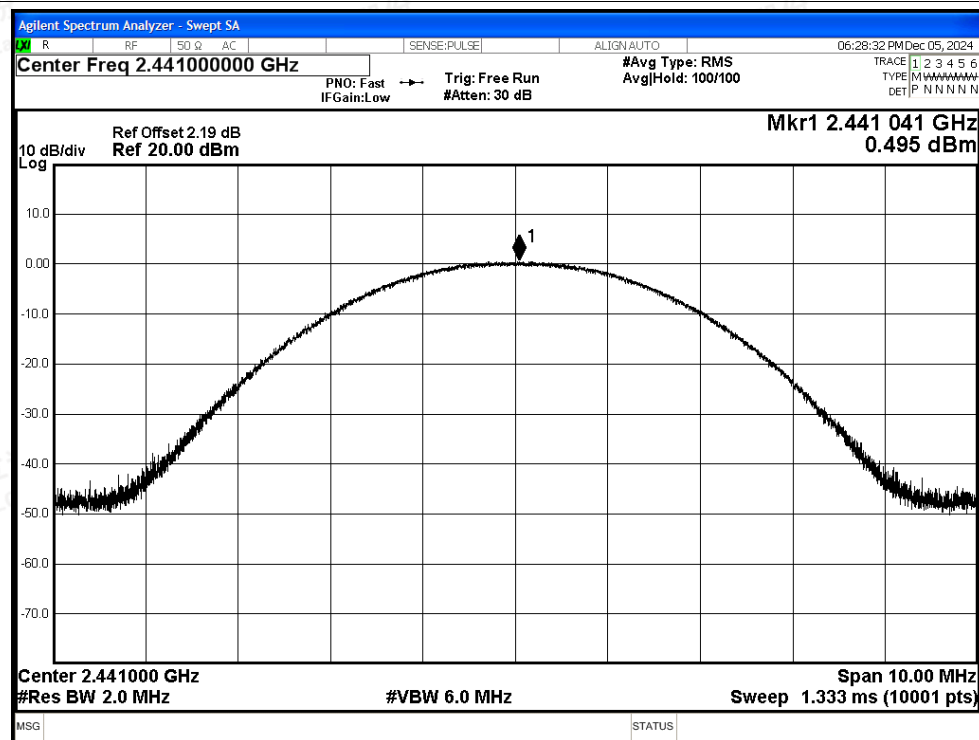


Power NVNT 2-DH5 2402MHz Ant1

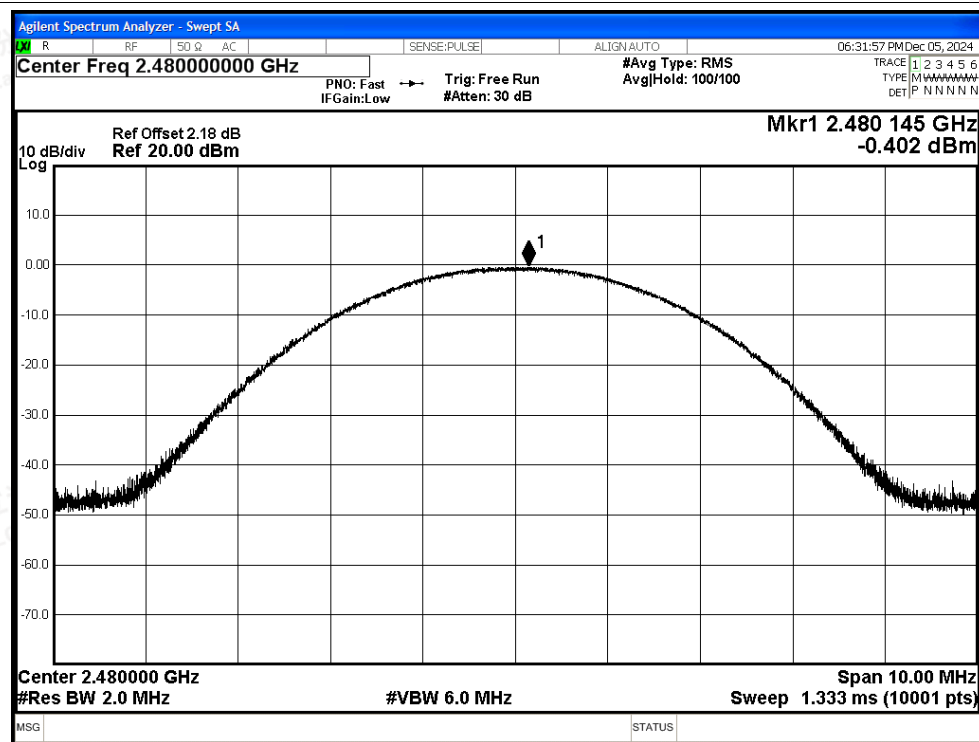


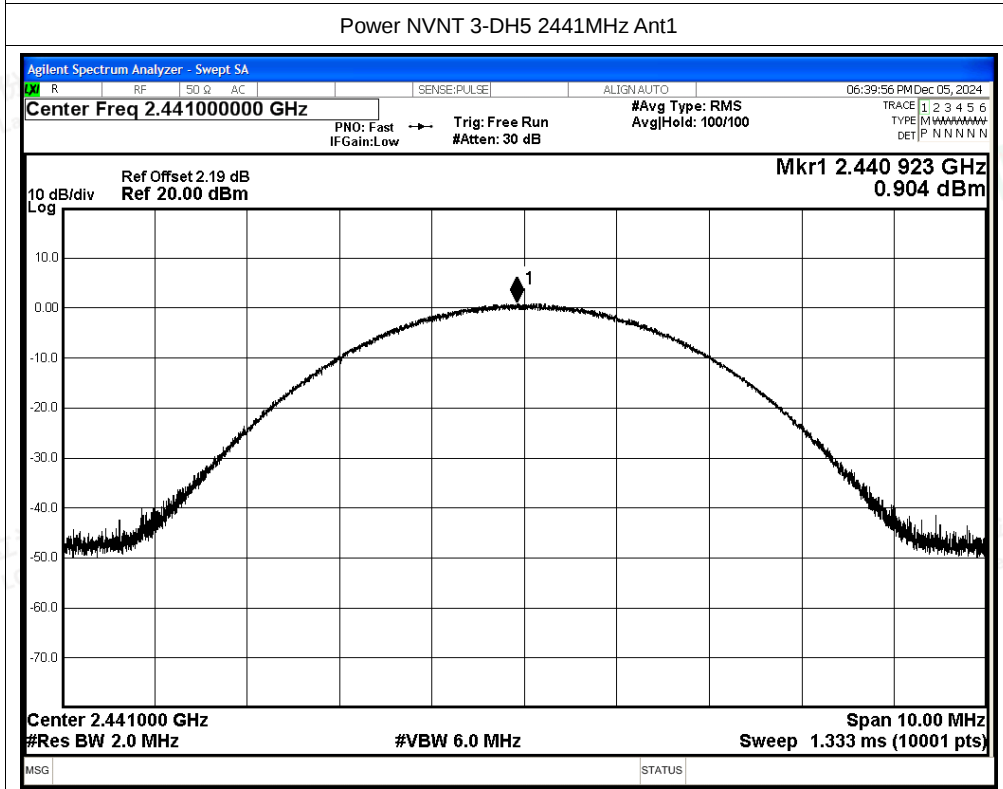
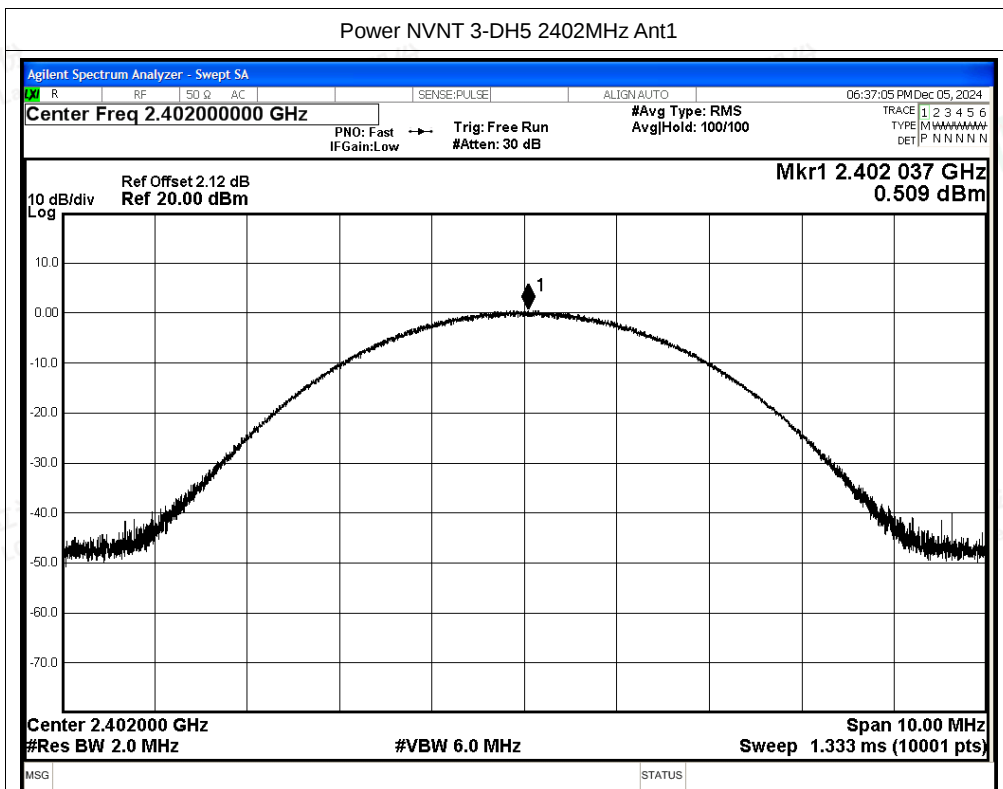


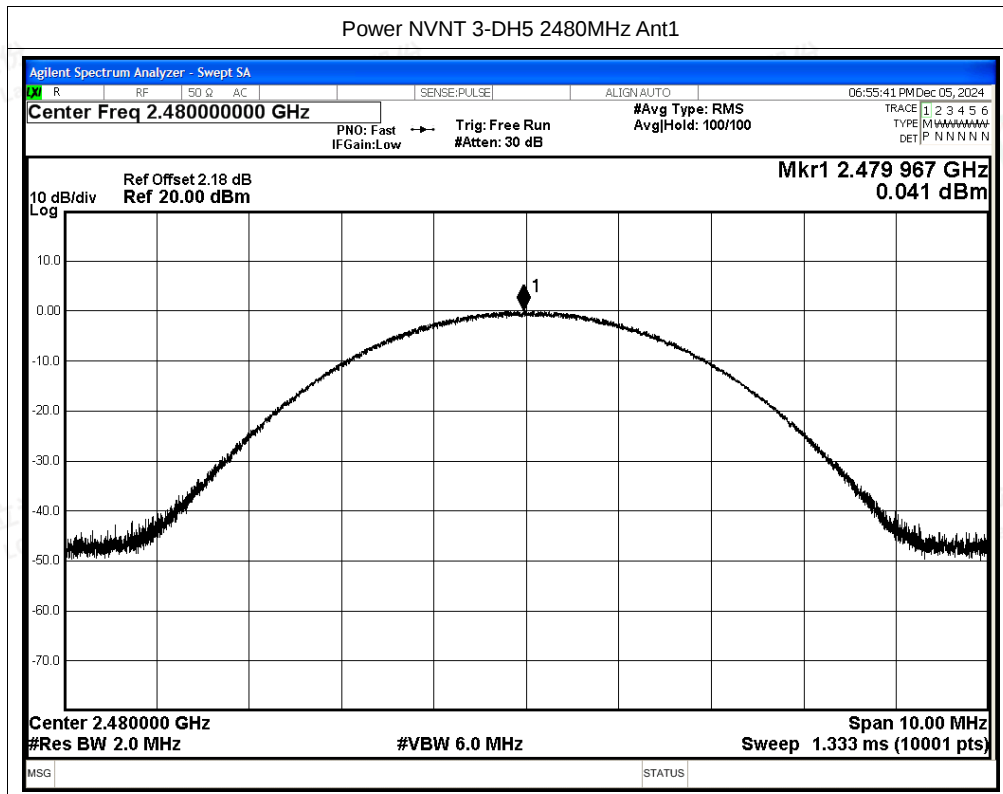
Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1









A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.026	2402.832	0.806	0.664	Pass
NVNT	2-DH5	Ant1	2402.024	2403.034	1.01	0.858	Pass
NVNT	3-DH5	Ant1	2402.032	2403.004	0.972	0.865	Pass

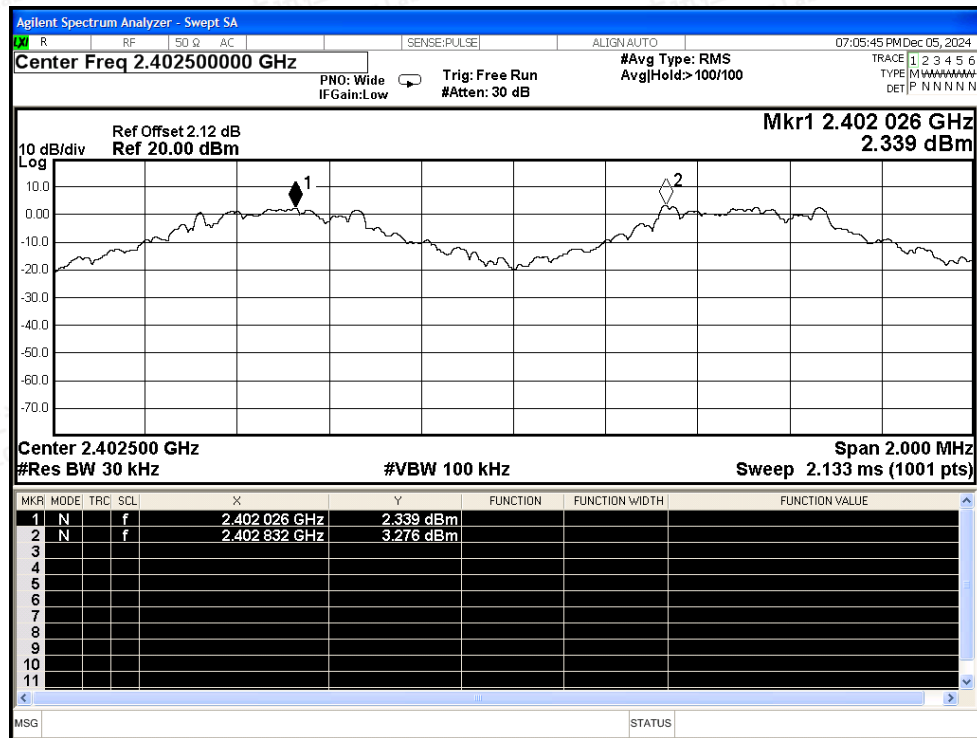


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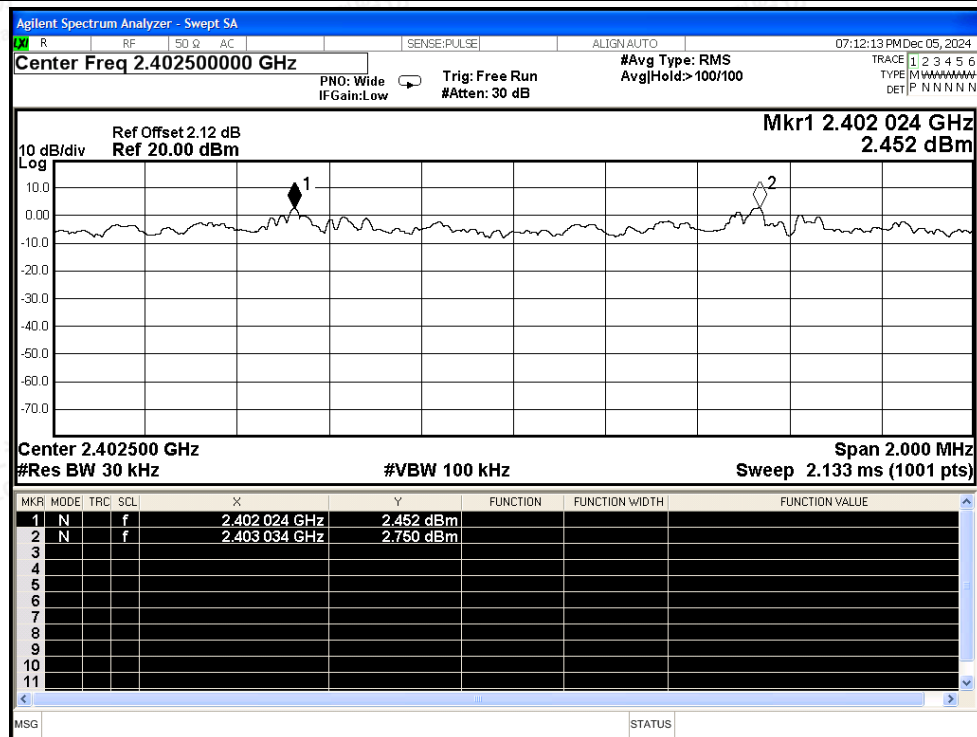


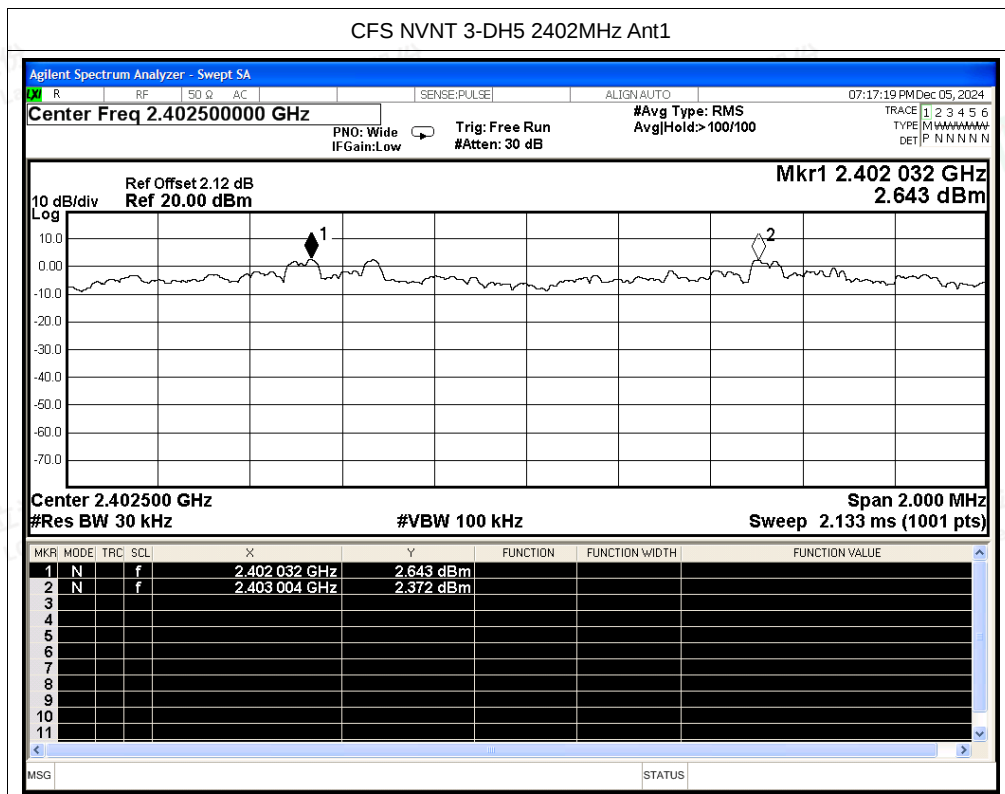
Test Graphs

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	2.91	349.2	120	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	284.004	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	309.979	107	31600	400	Pass

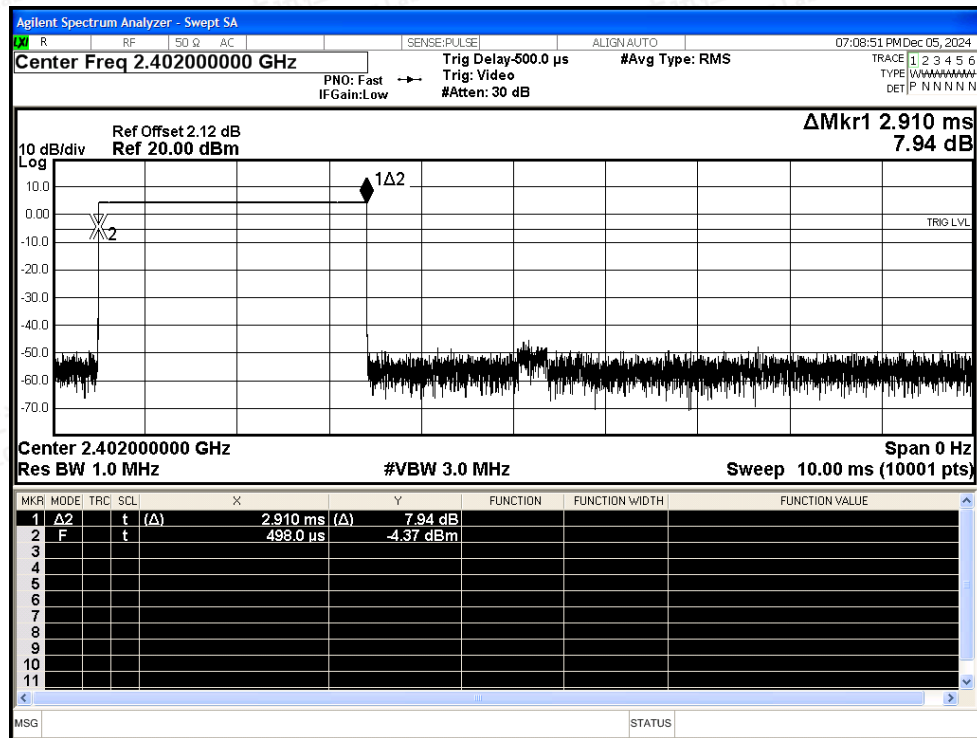


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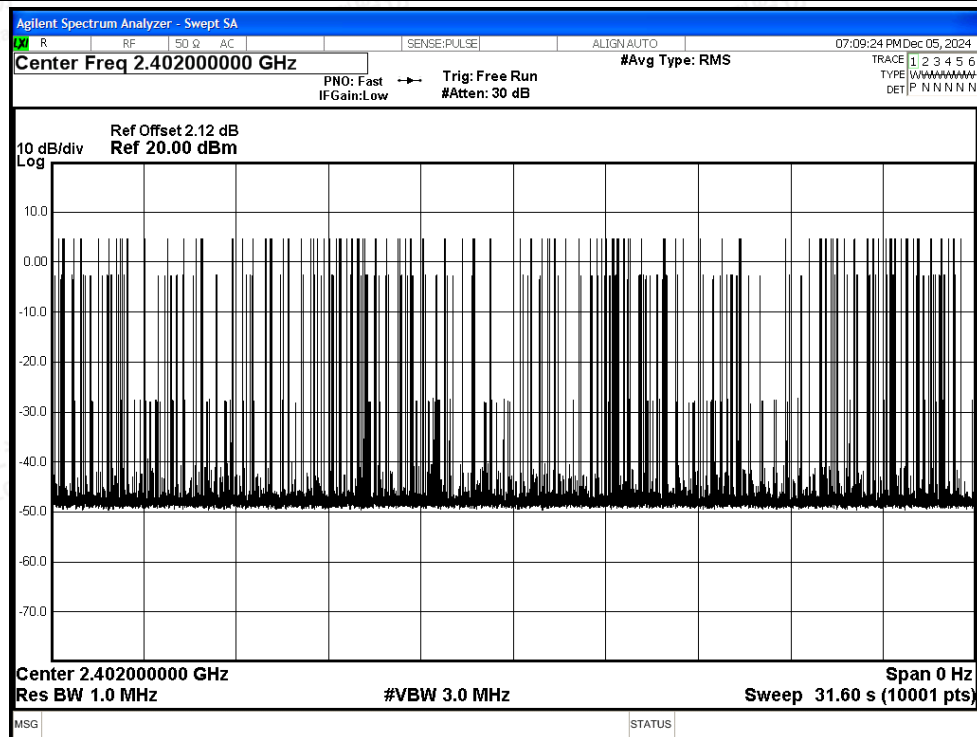


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

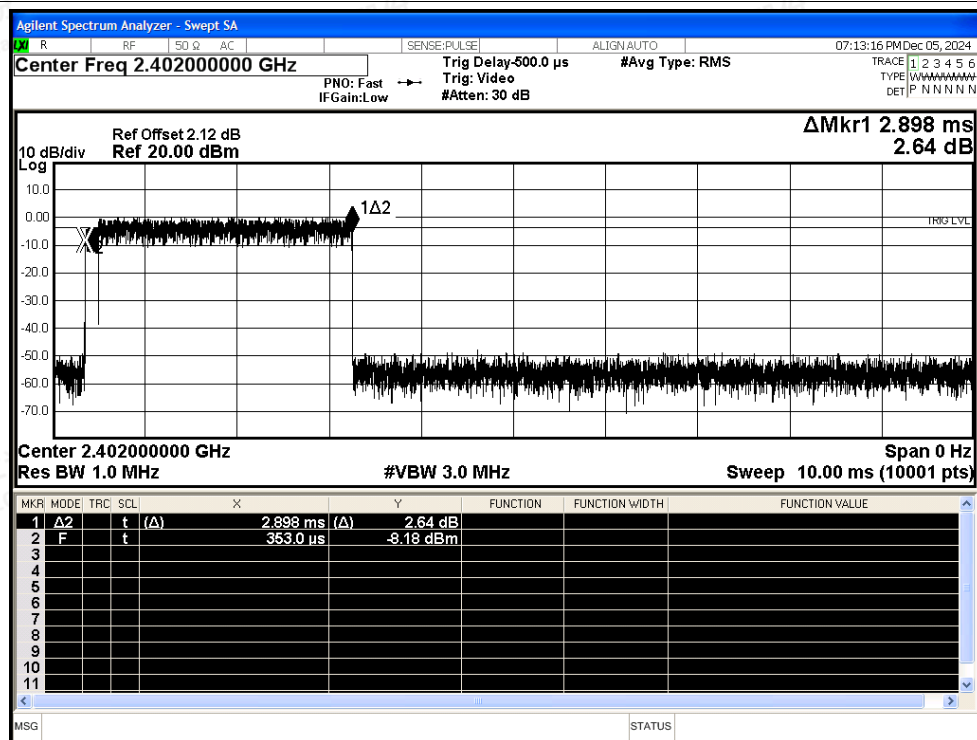


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

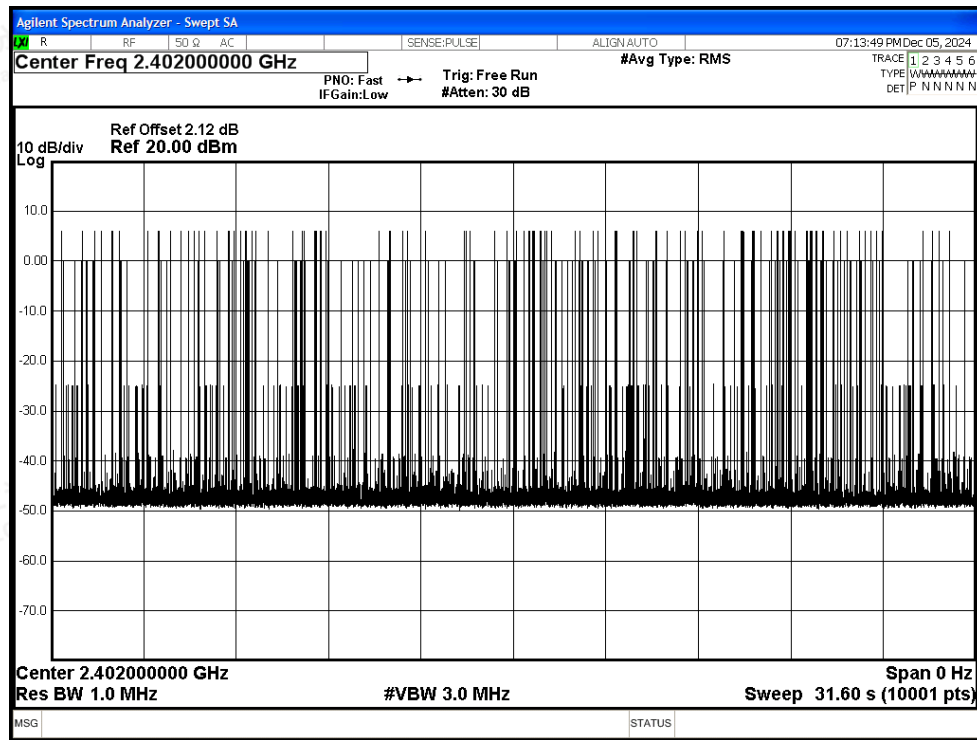




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

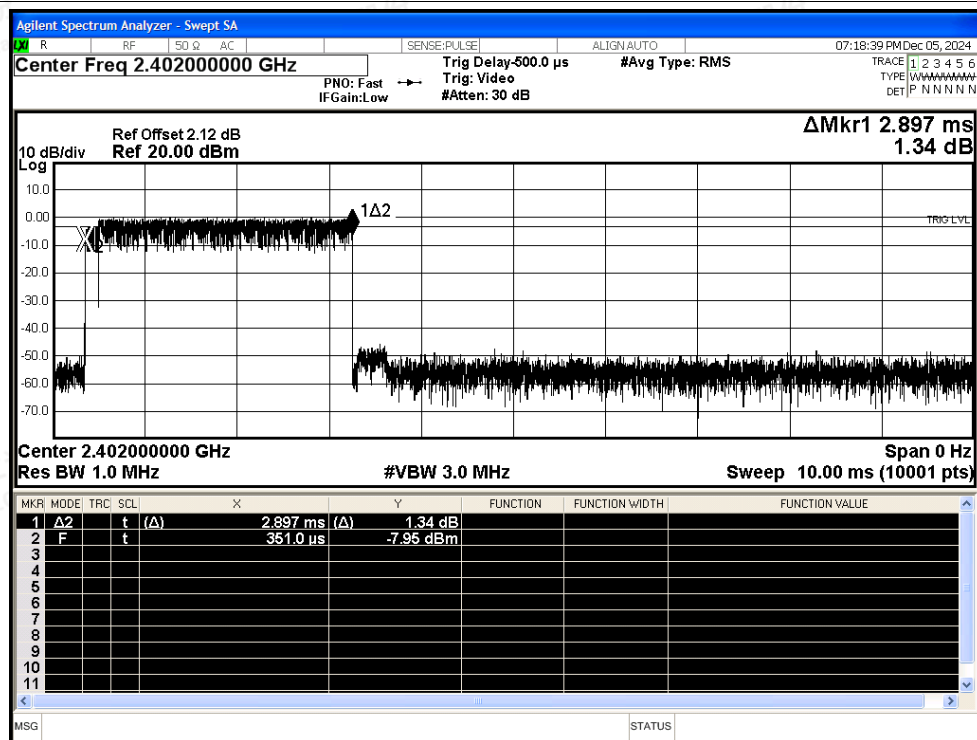


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

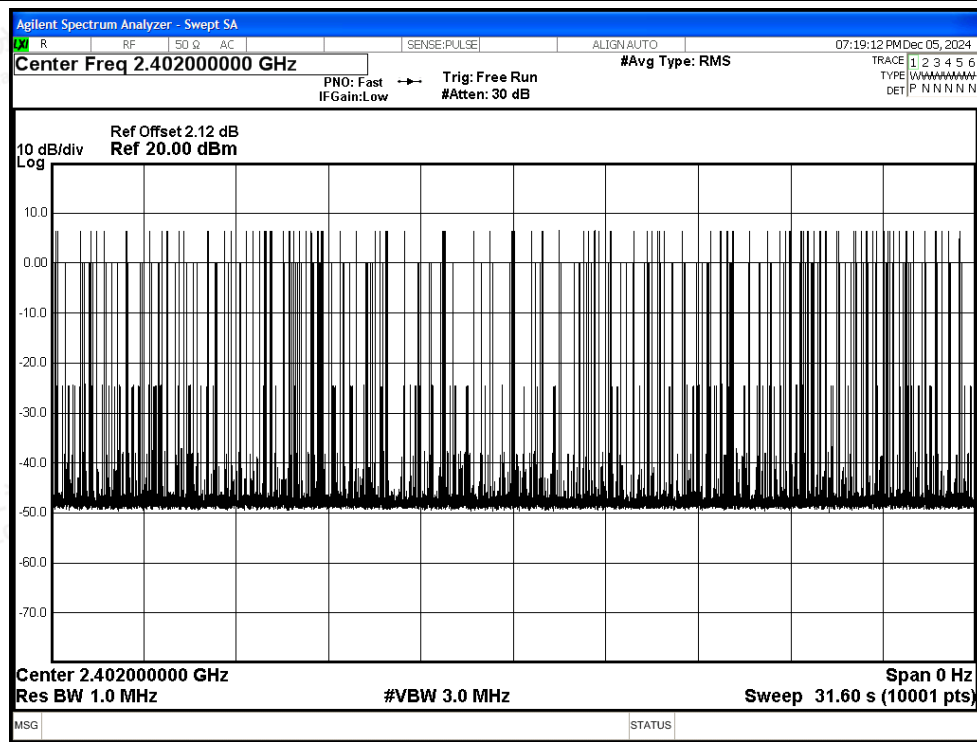




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

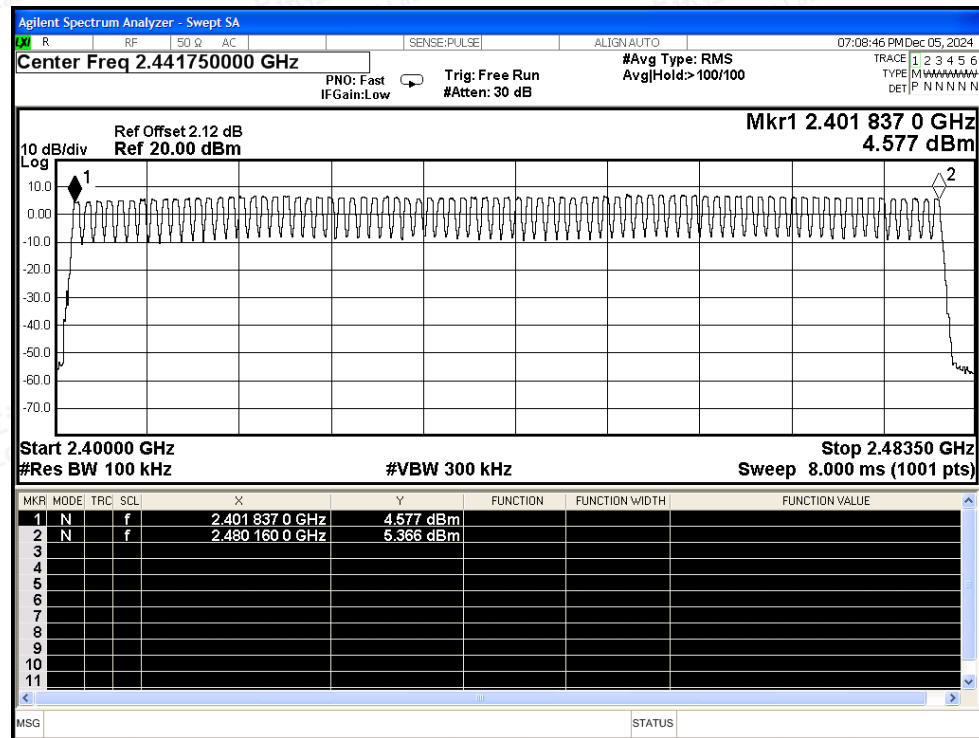


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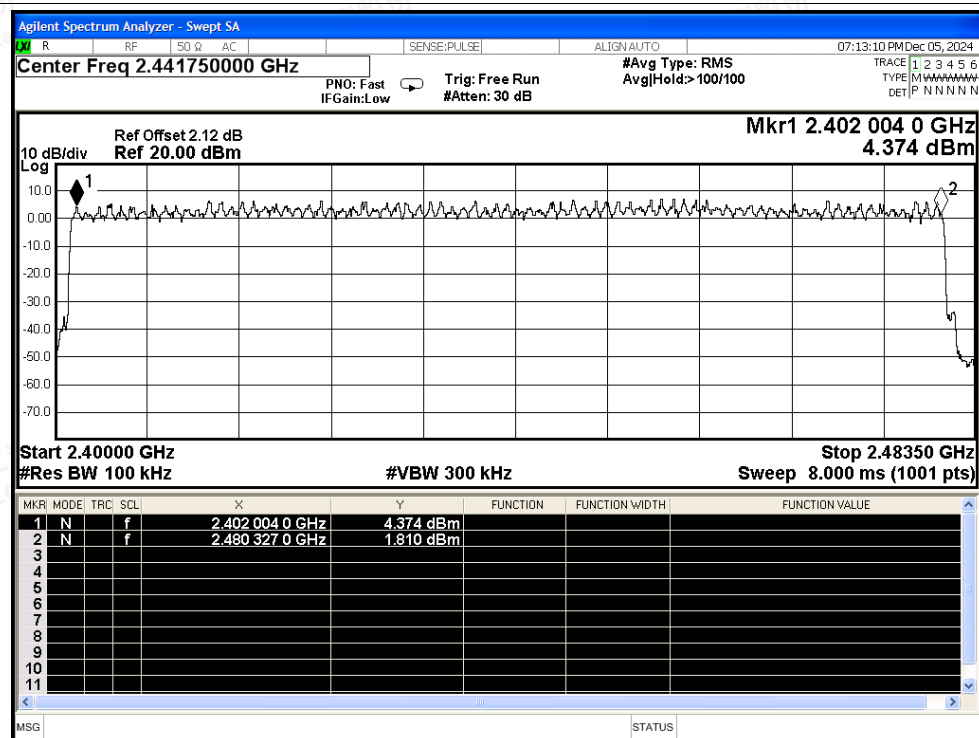


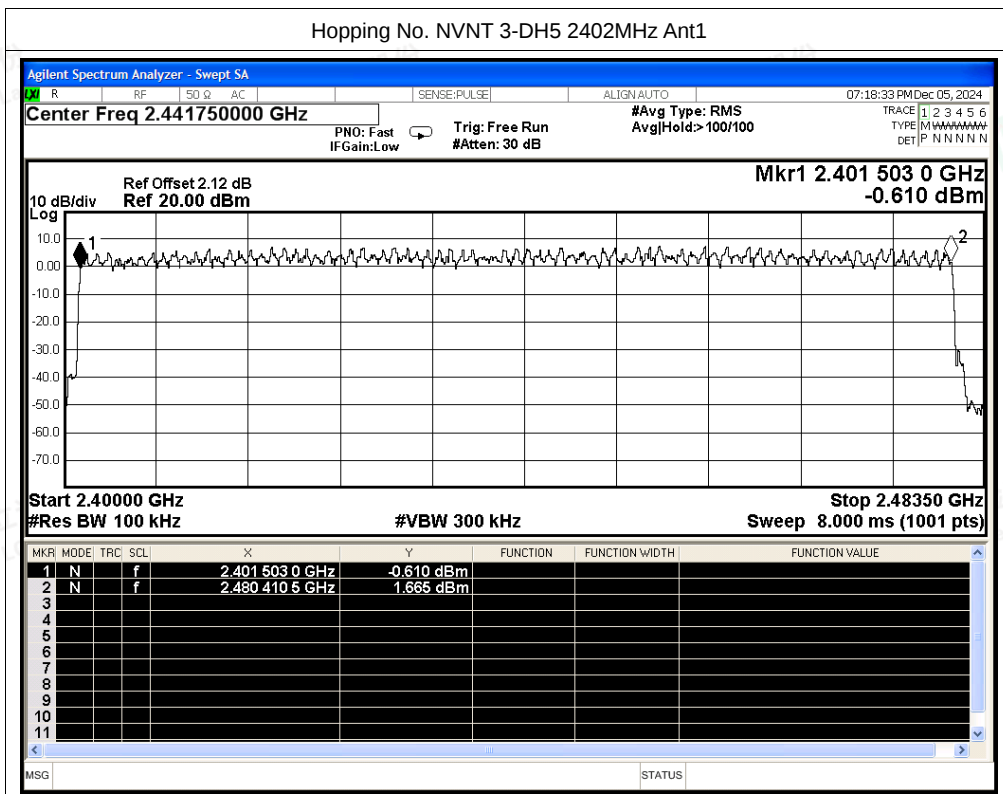
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.78	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.34	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.71	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.22	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.54	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.15	-20	Pass

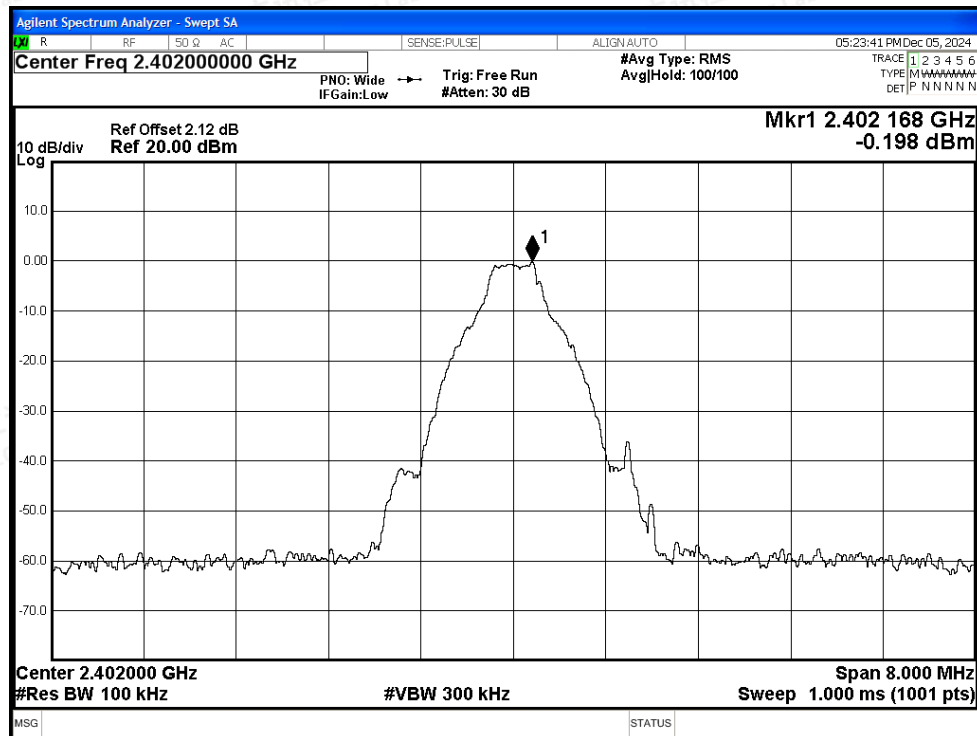


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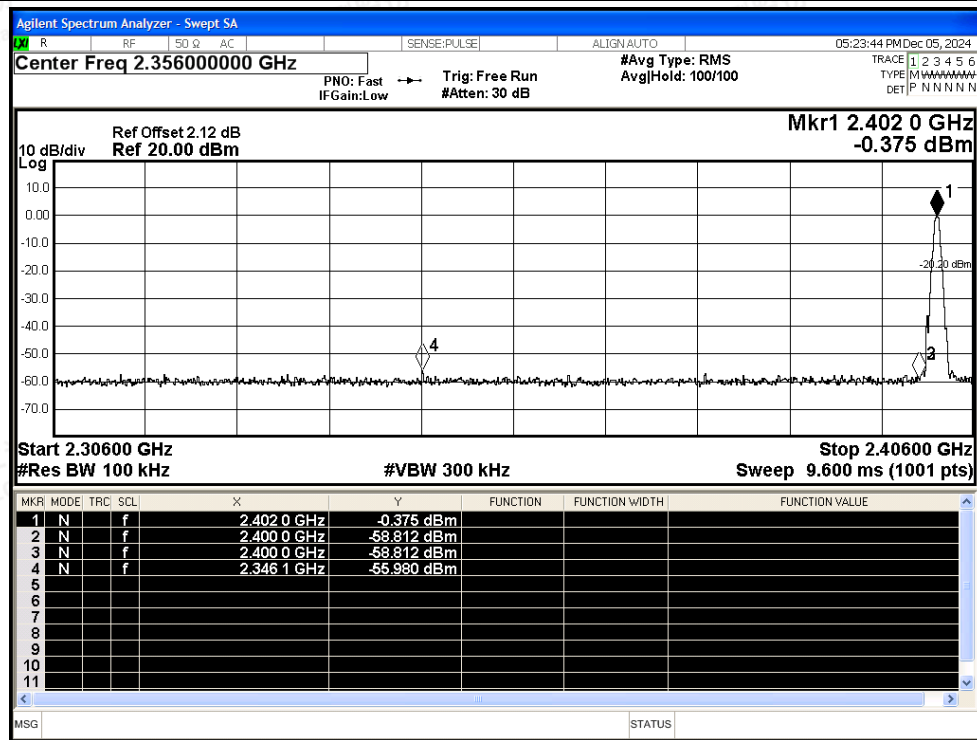


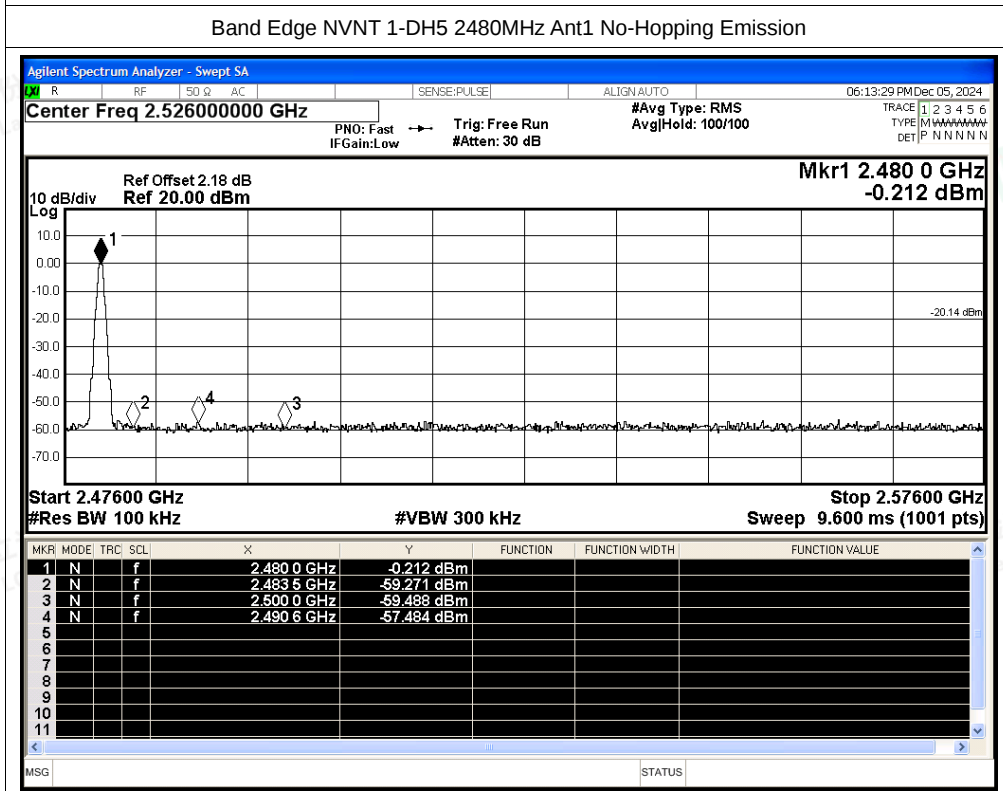
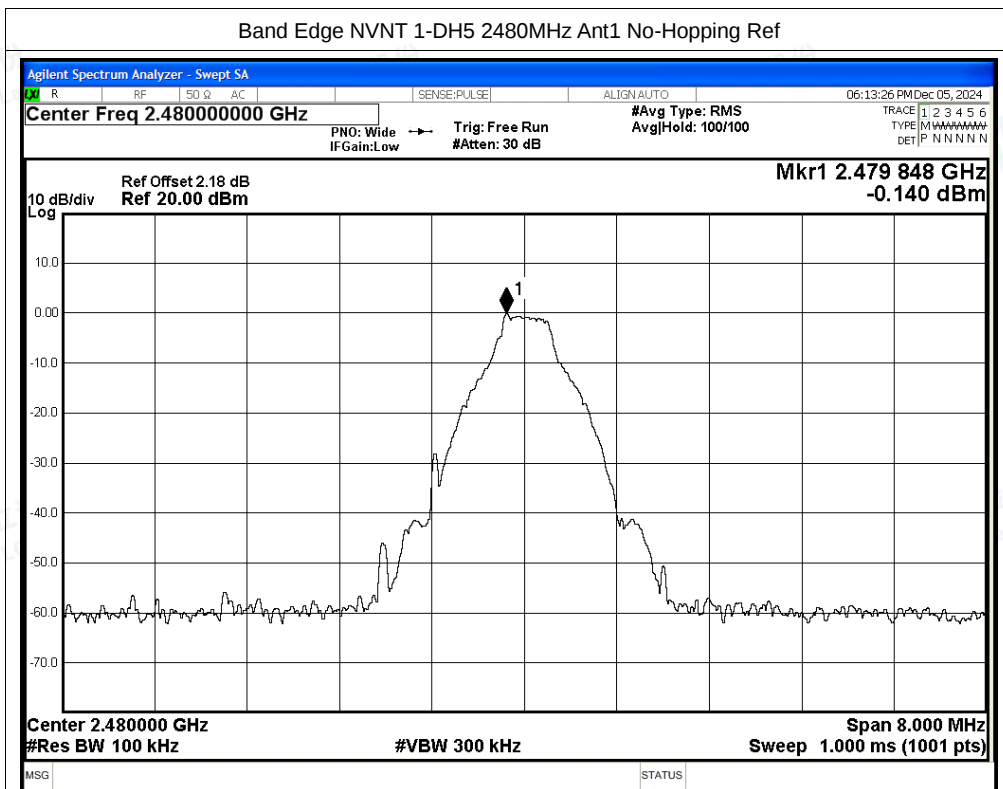
Test Graphs

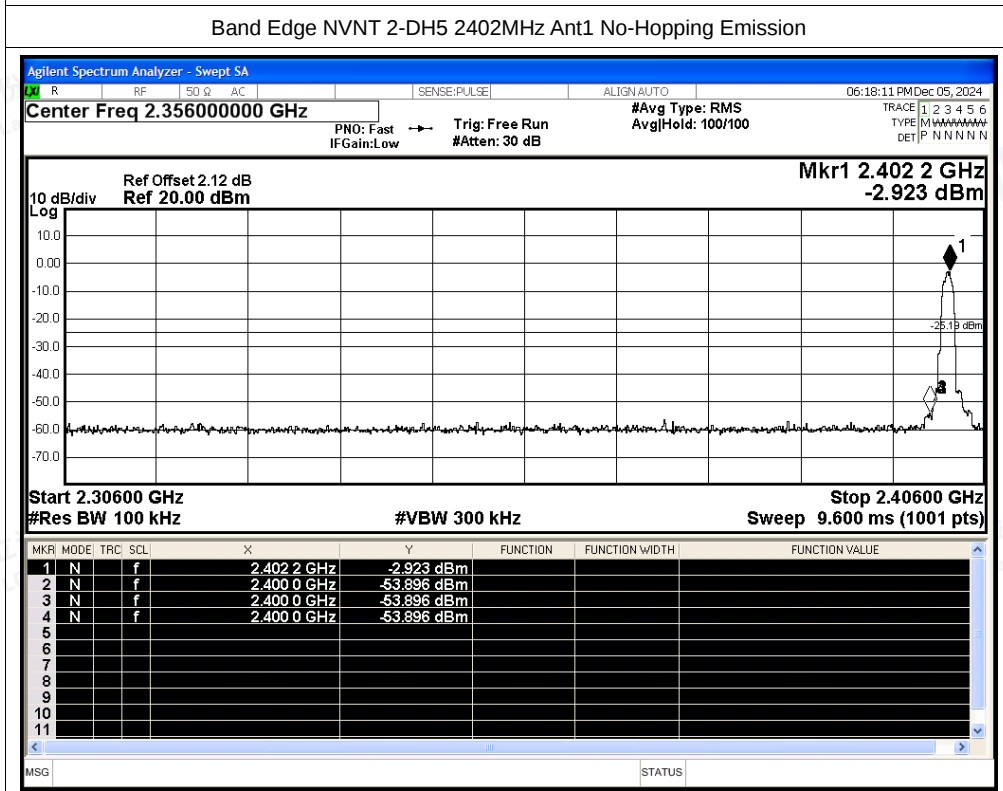
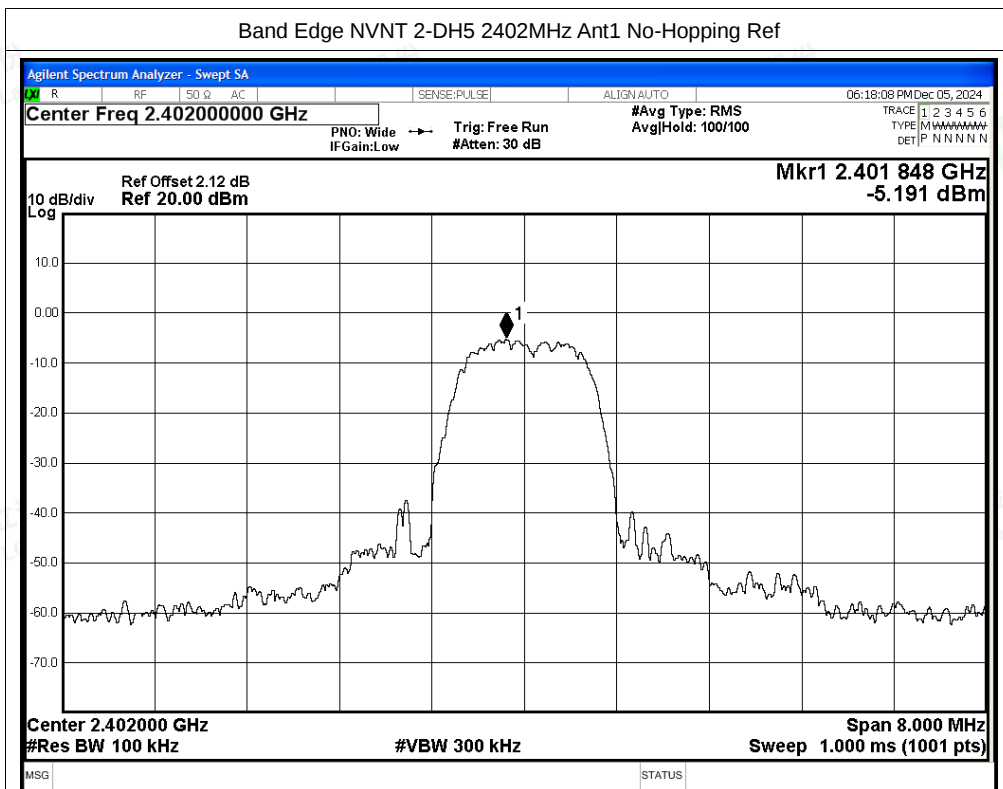
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

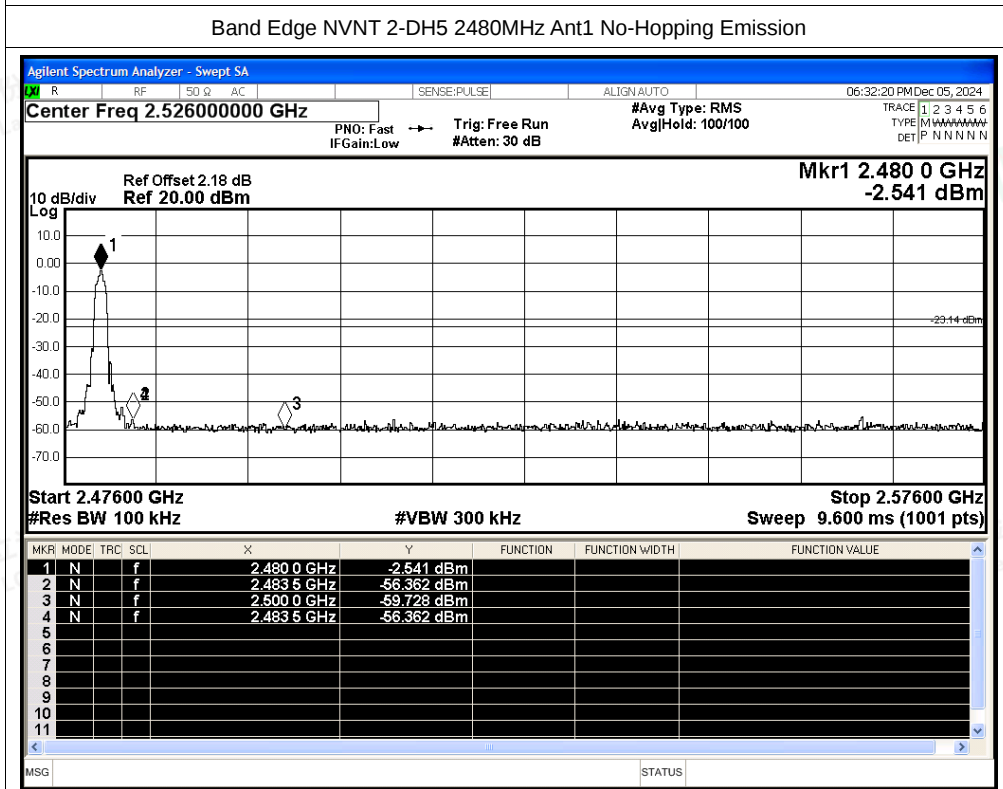
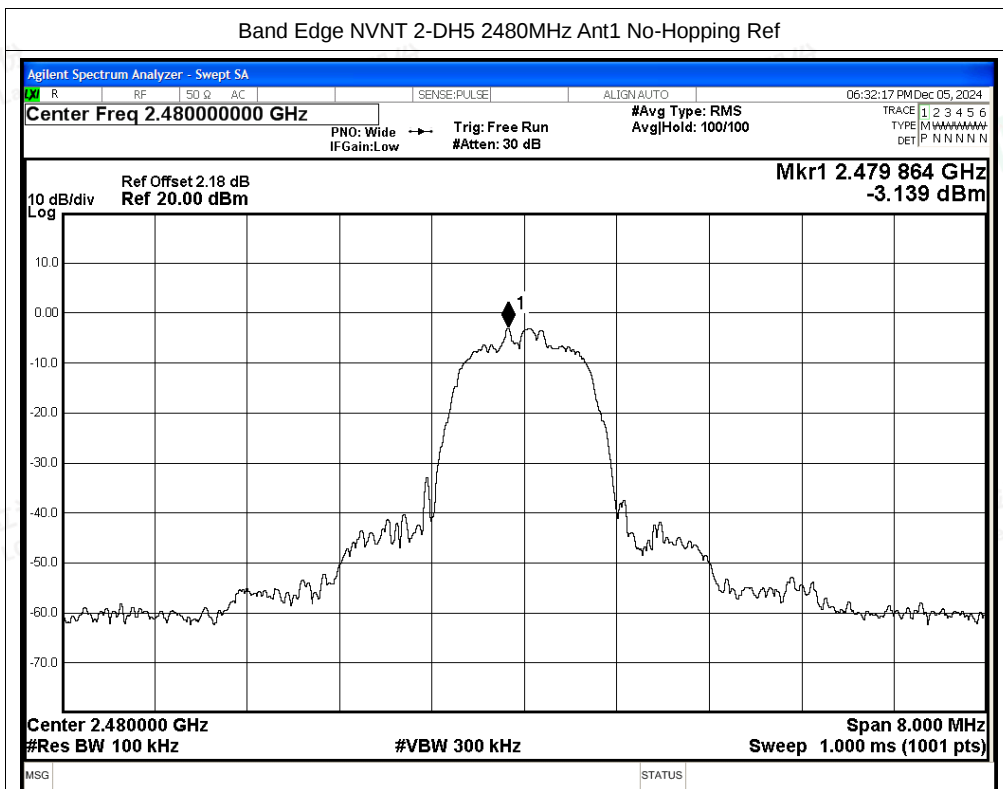


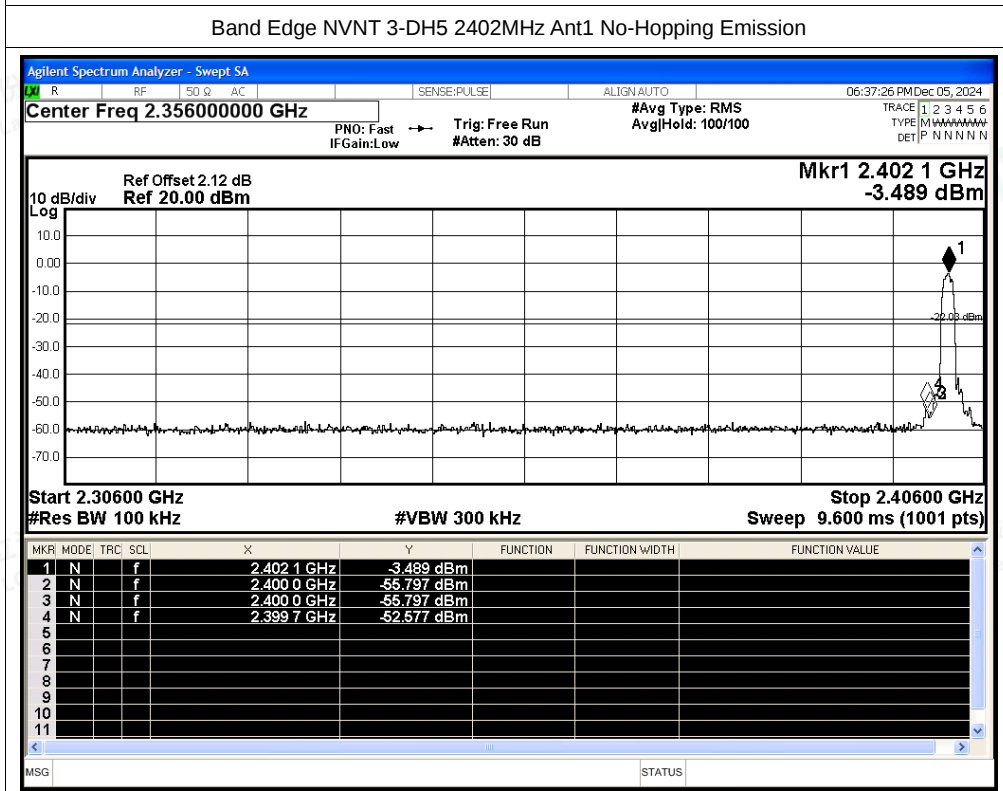
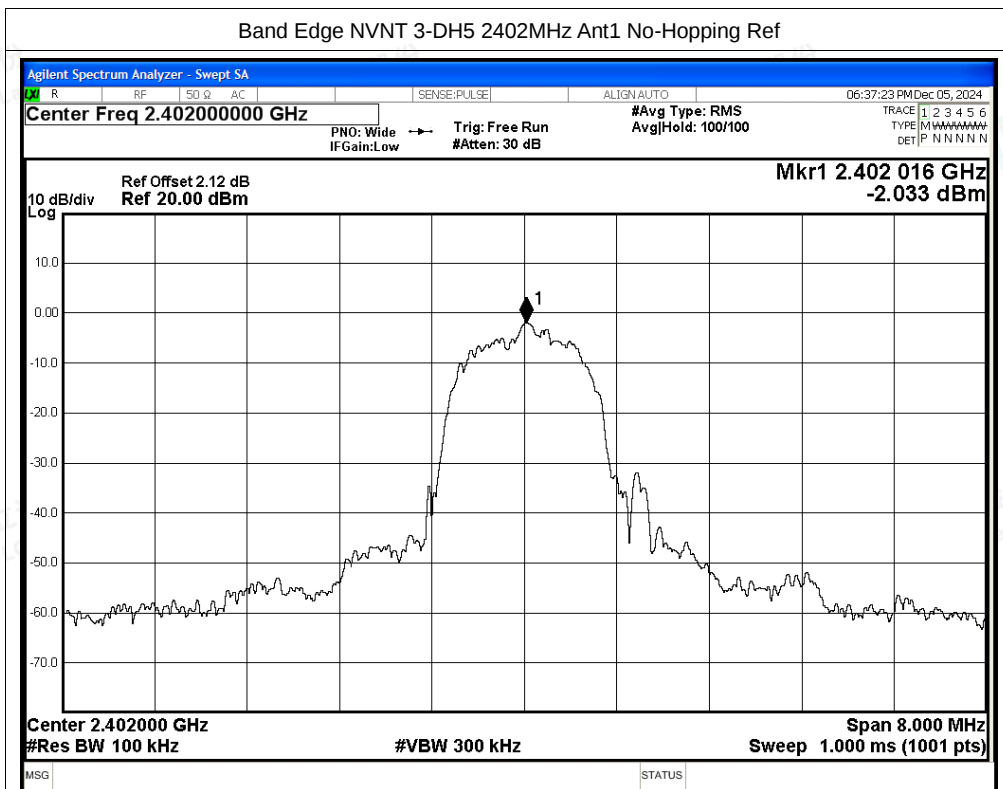
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

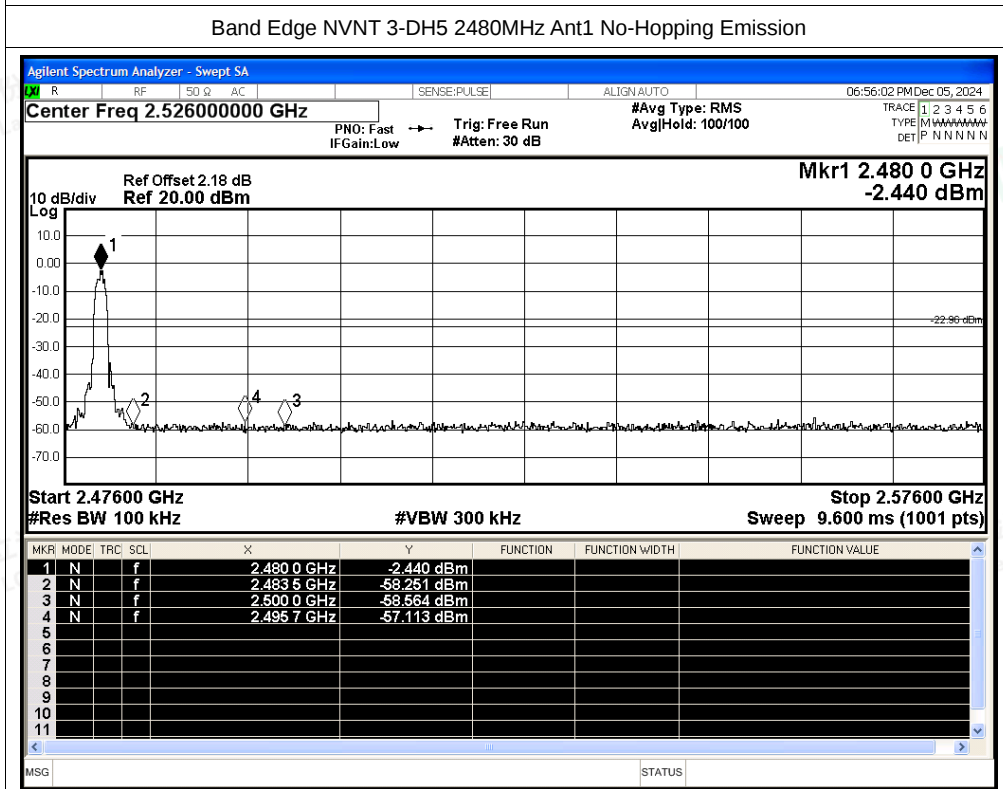
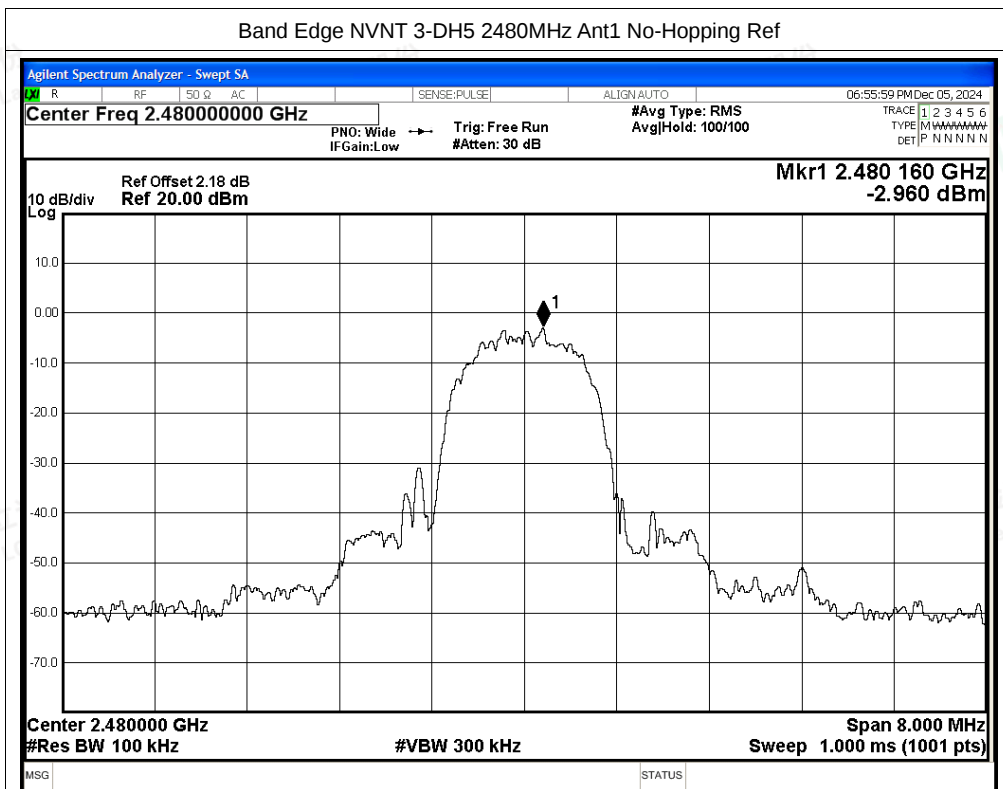












**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-61	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-62.04	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-59.92	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-61.44	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-59.93	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.94	-20	Pass

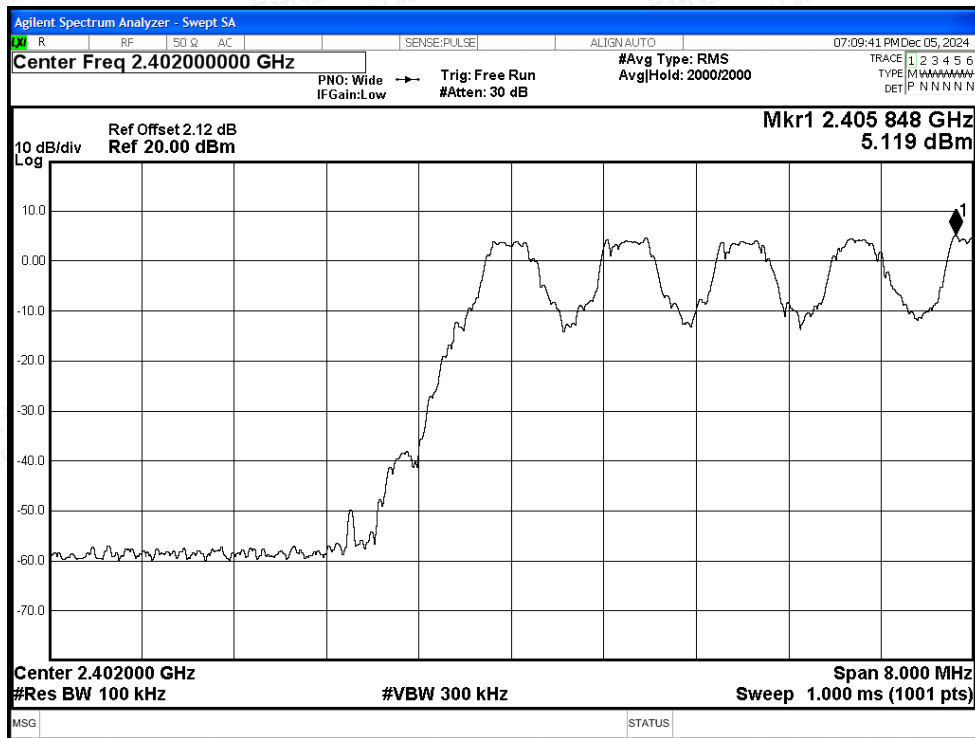


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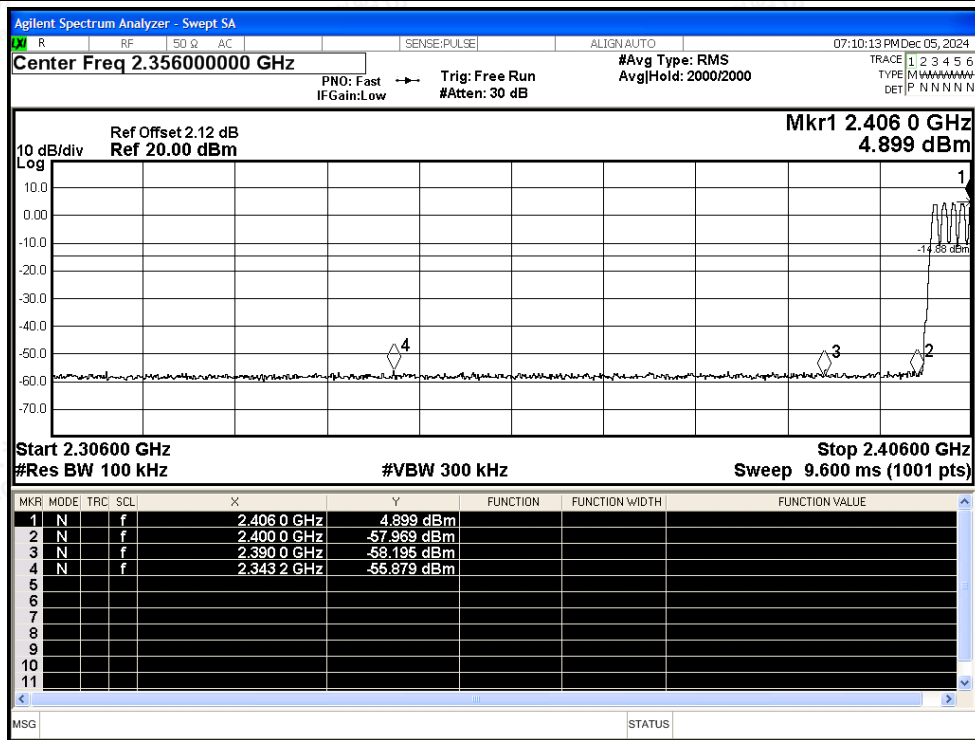


Test Graphs

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

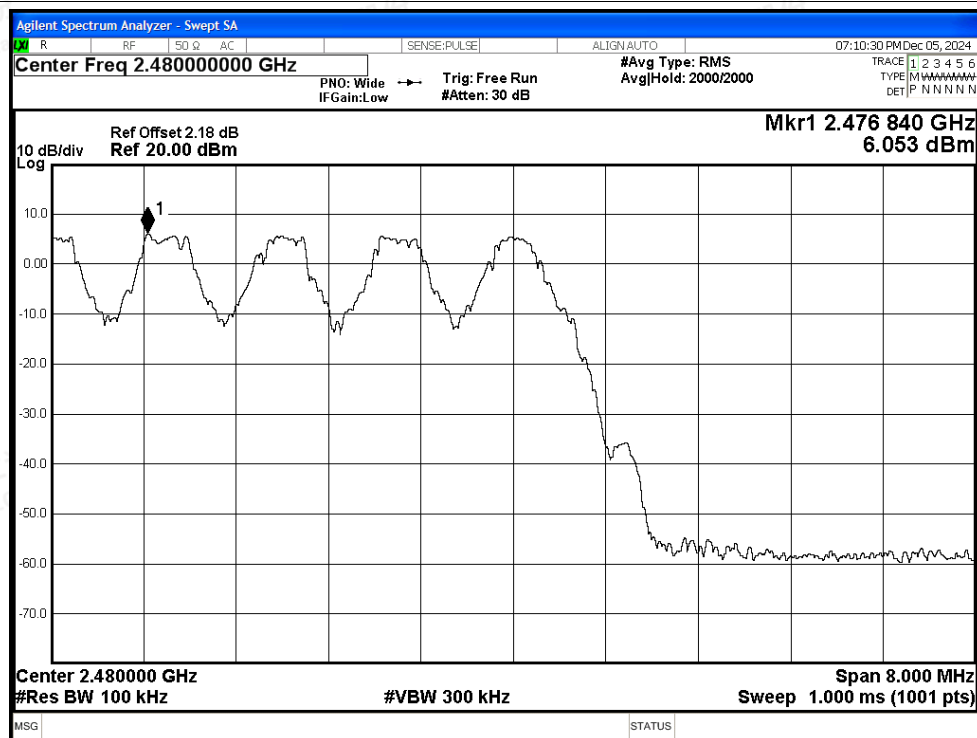


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

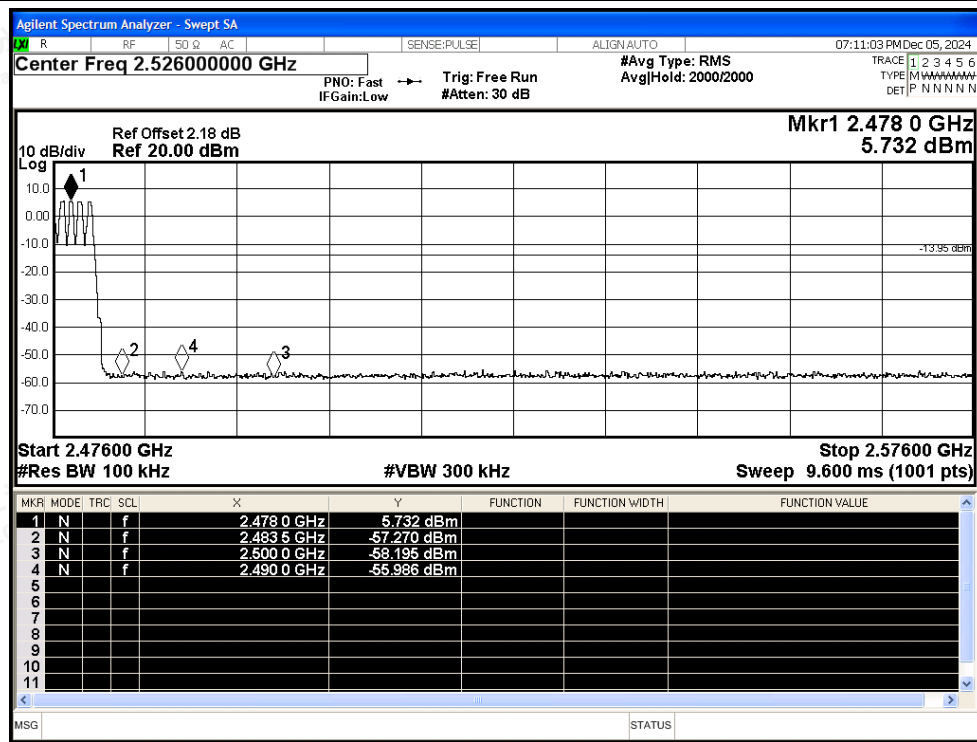


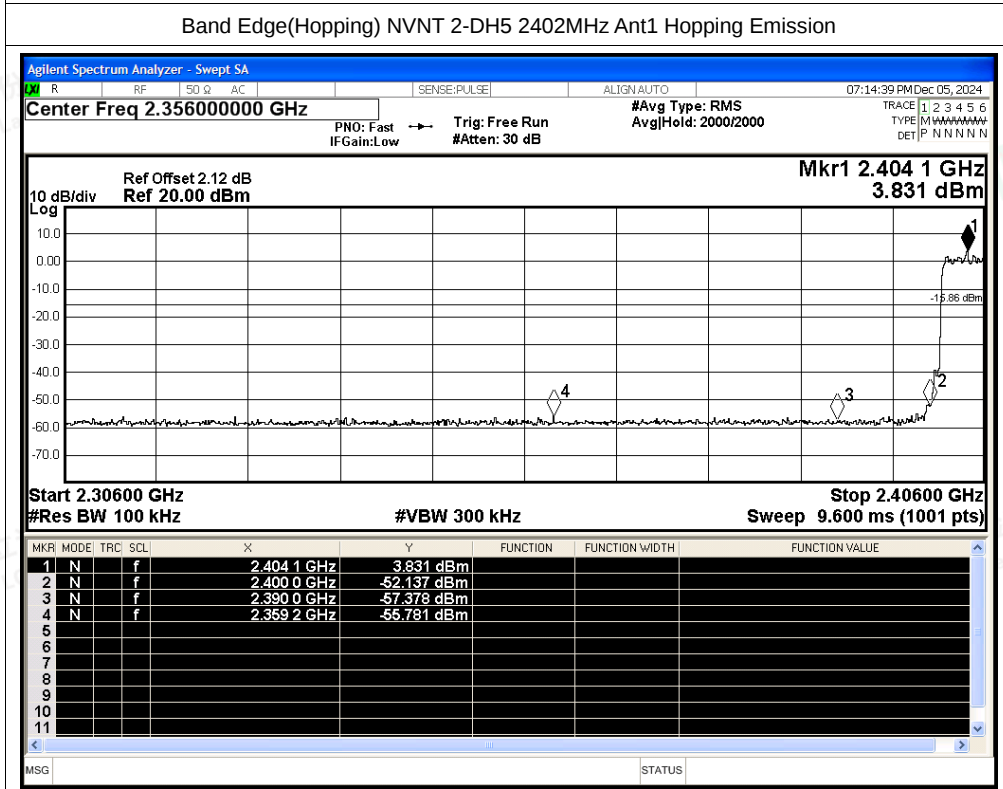
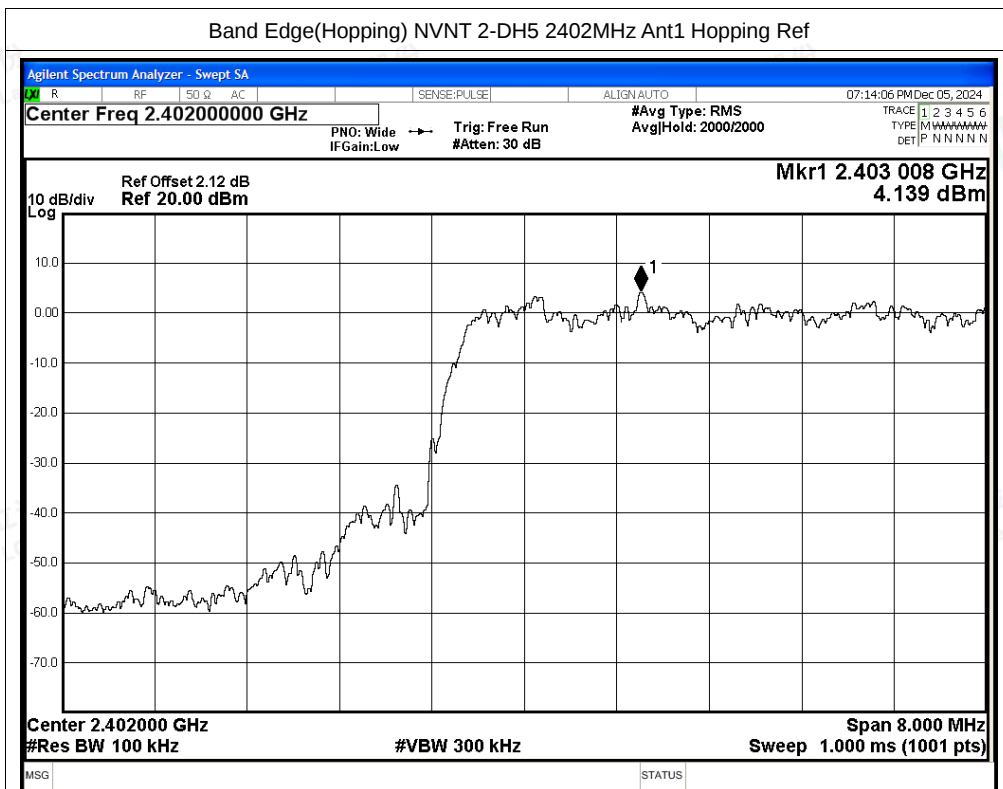


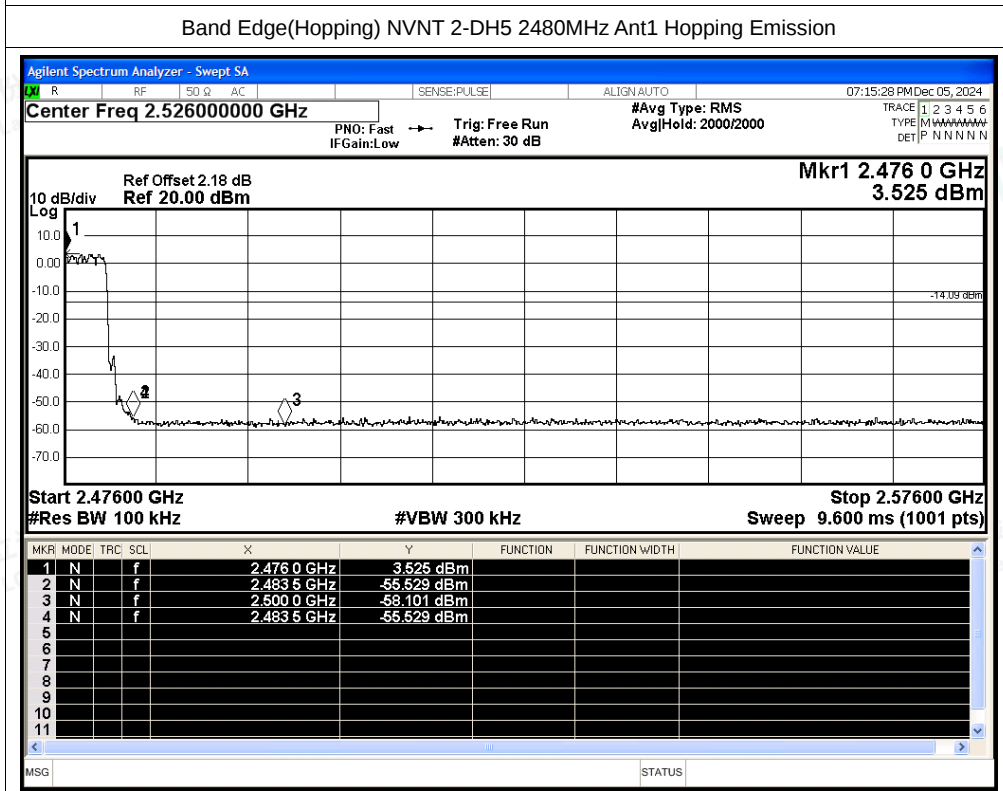
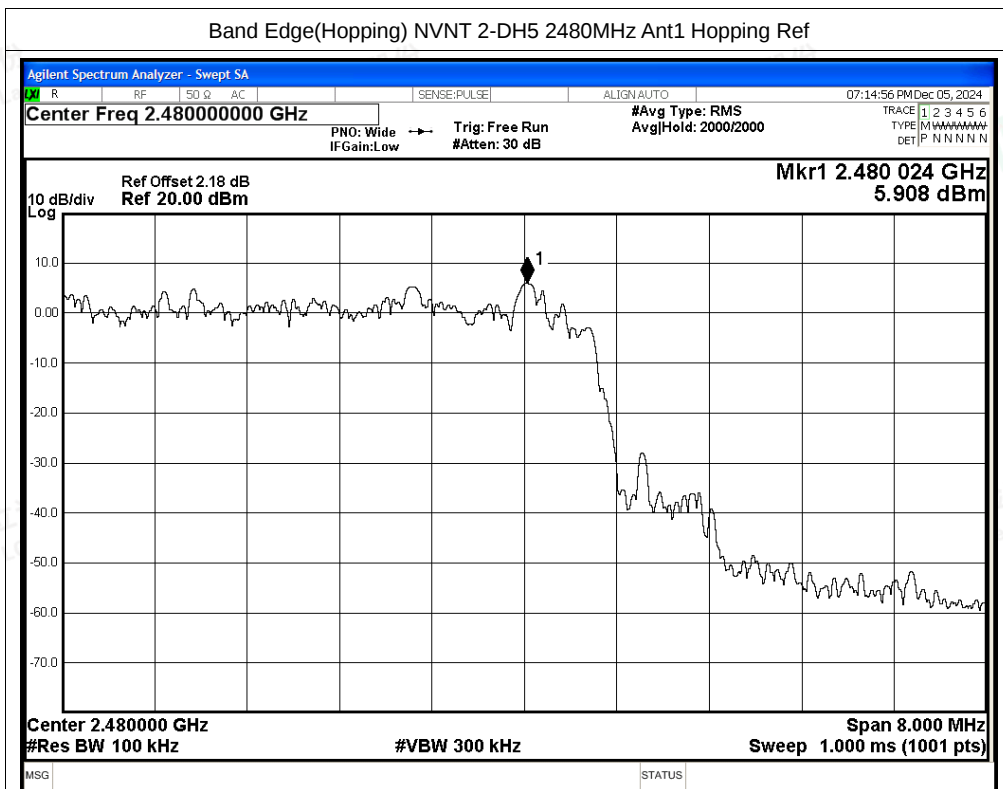
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

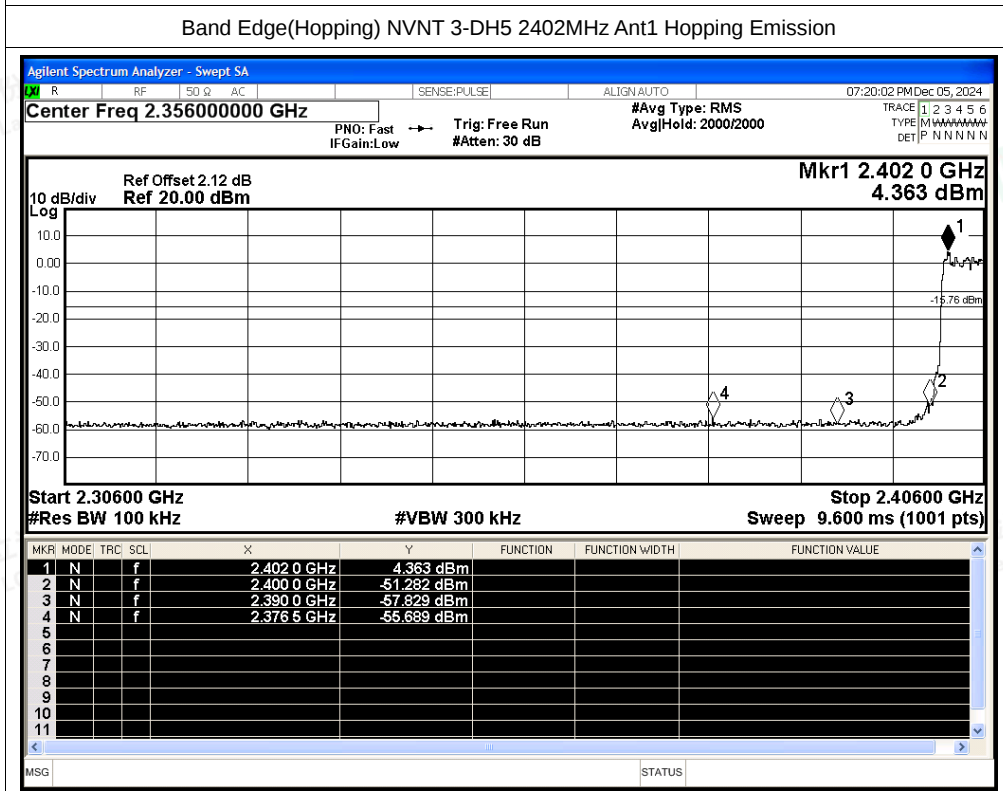
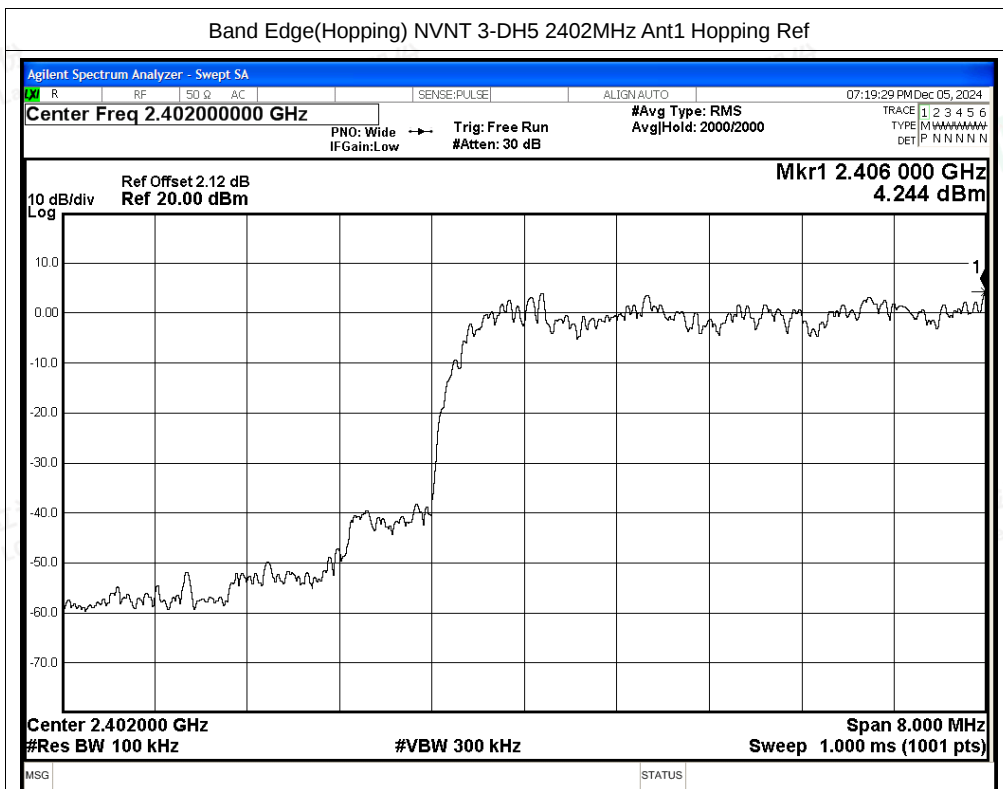


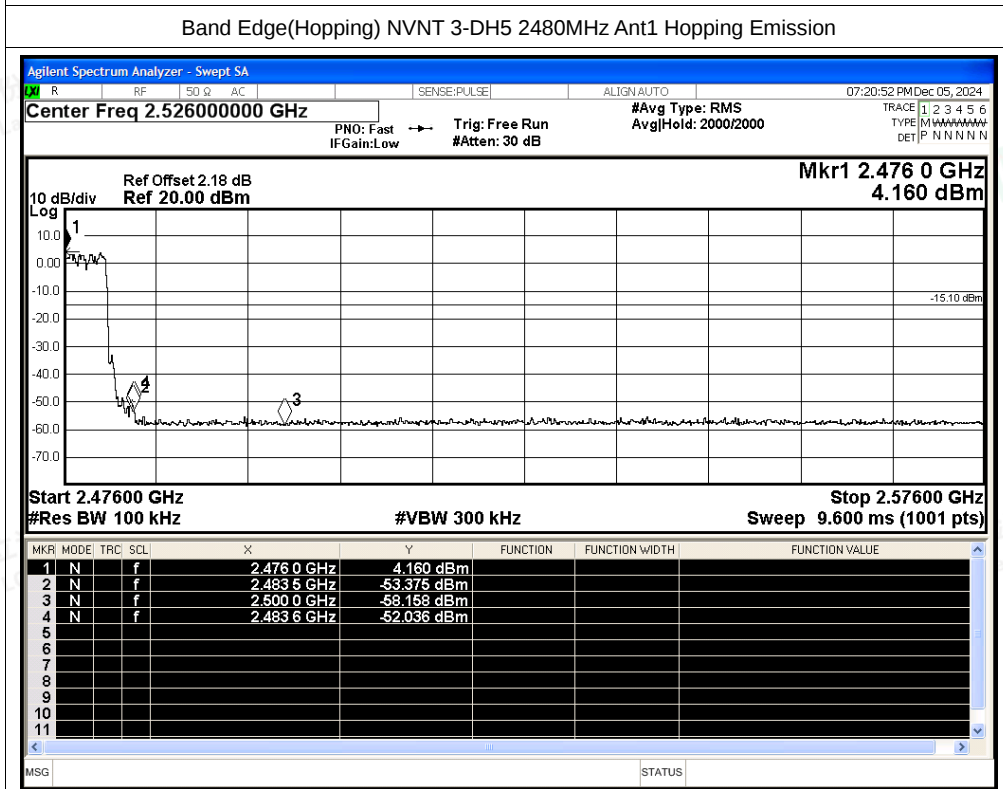
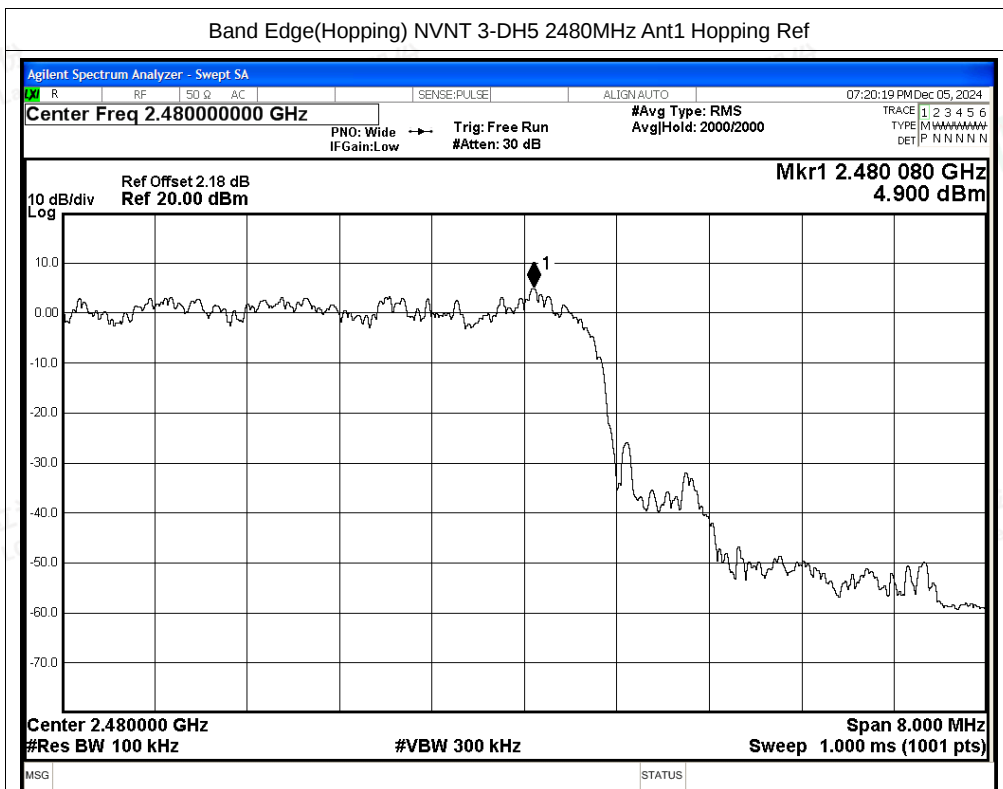
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission













A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.66	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.44	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.7	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.29	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.96	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.74	-20	Pass
NVNT	3-DH5	2402	Ant1	-51.97	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.27	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.65	-20	Pass

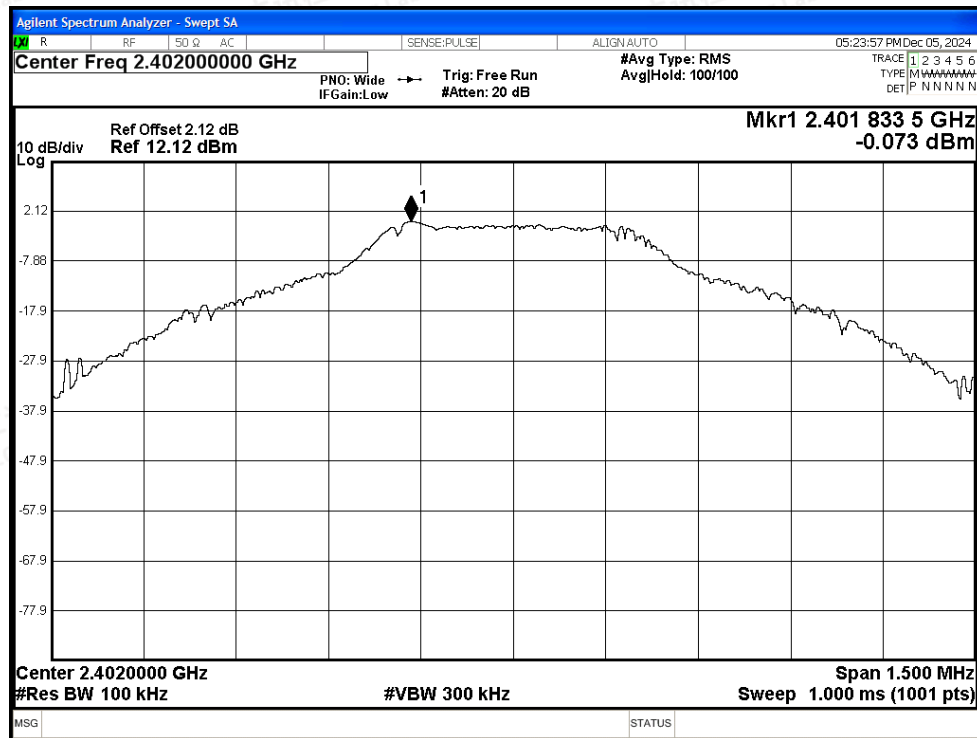


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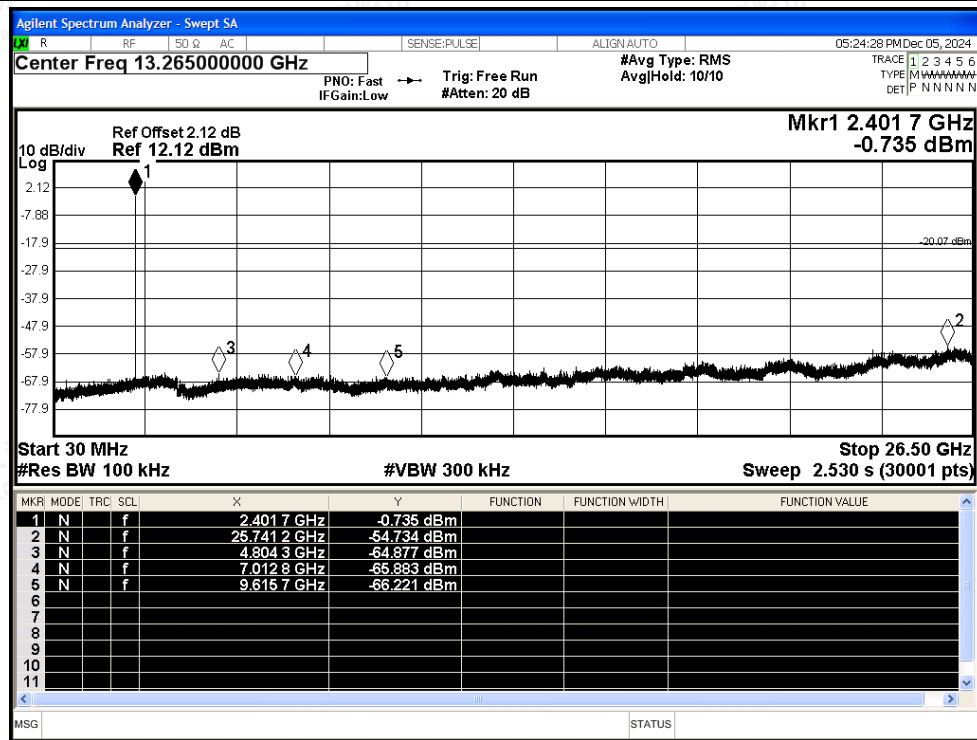


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

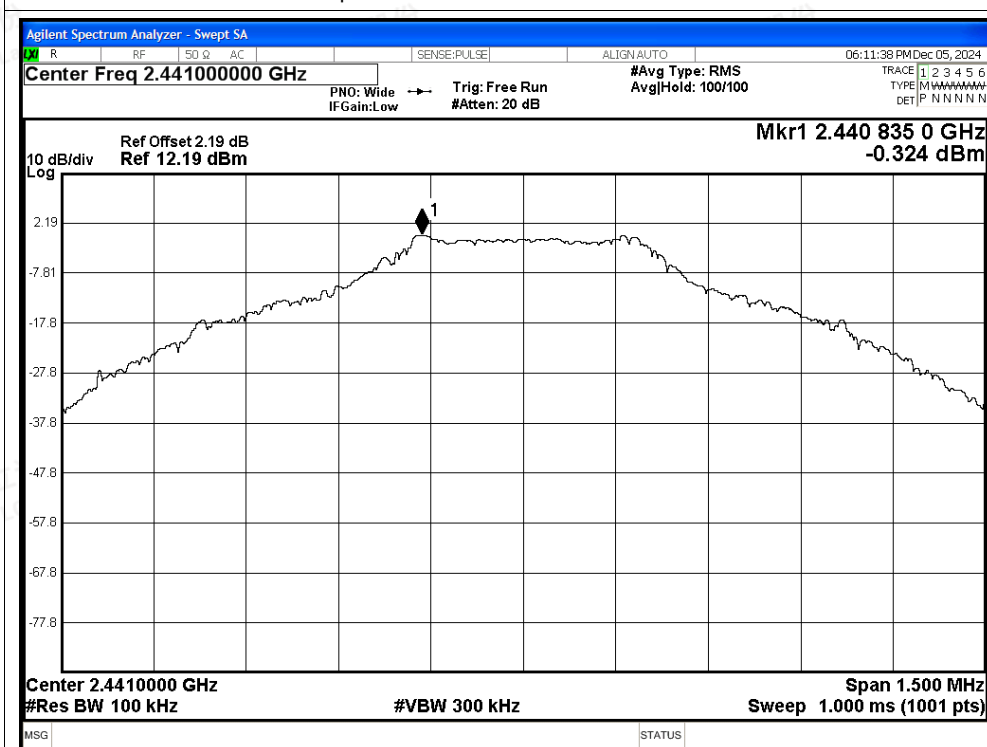


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

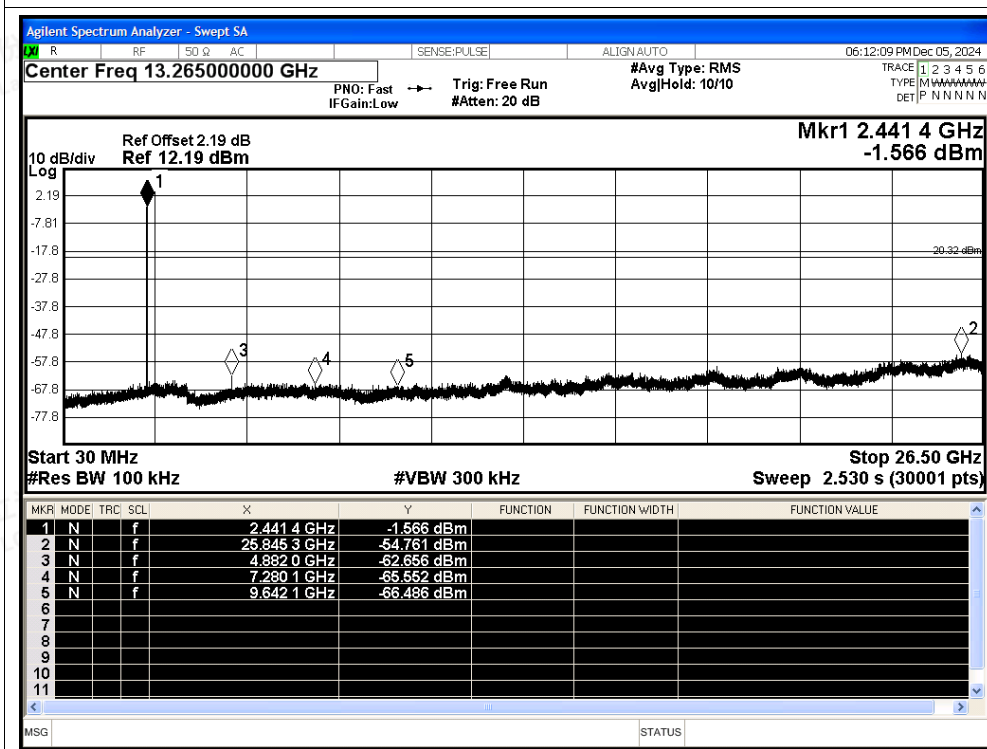




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

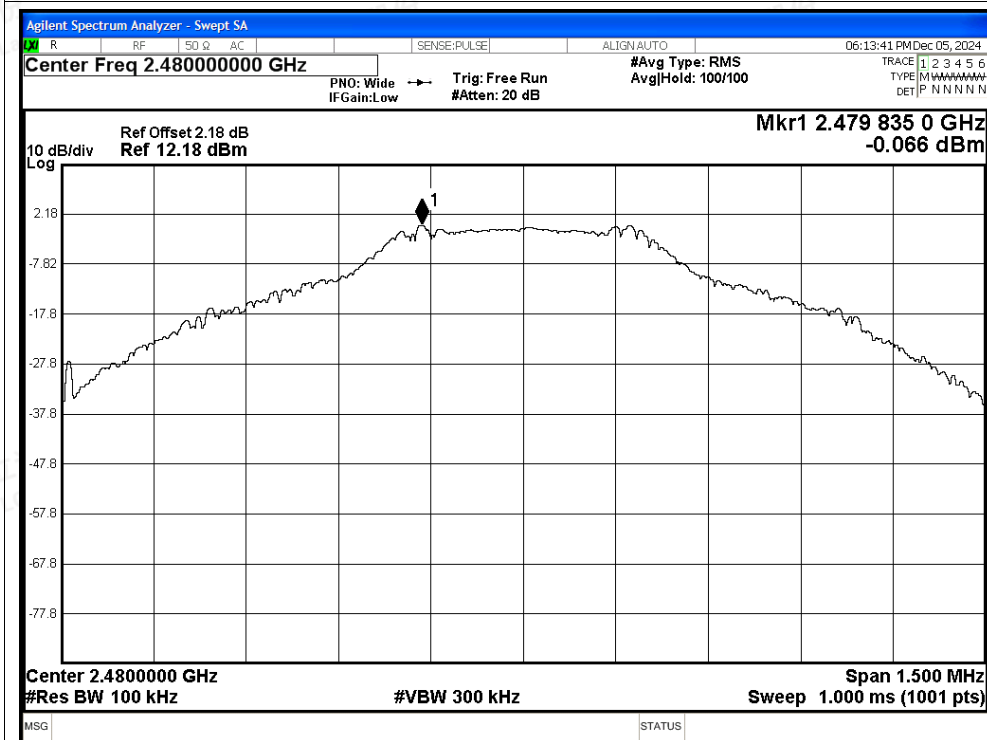


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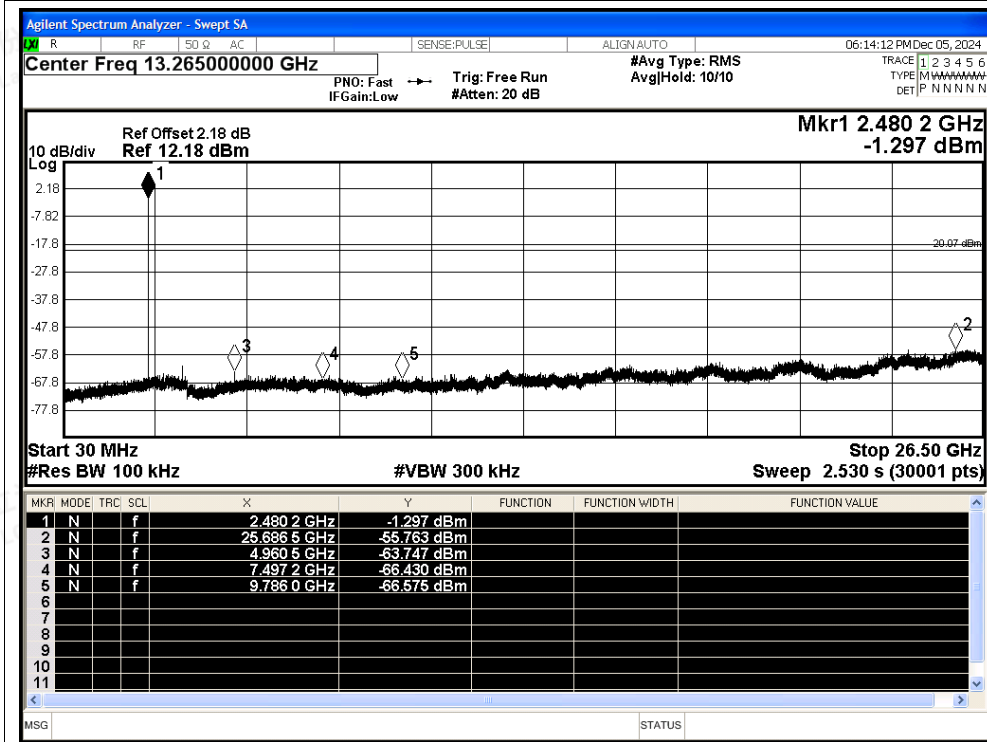




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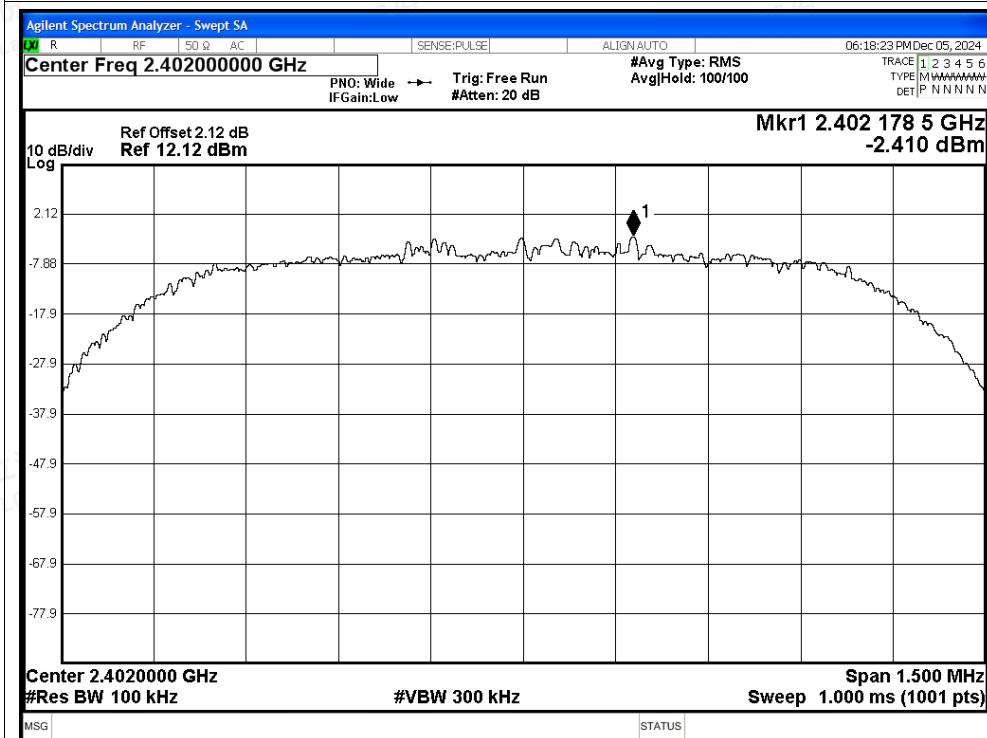


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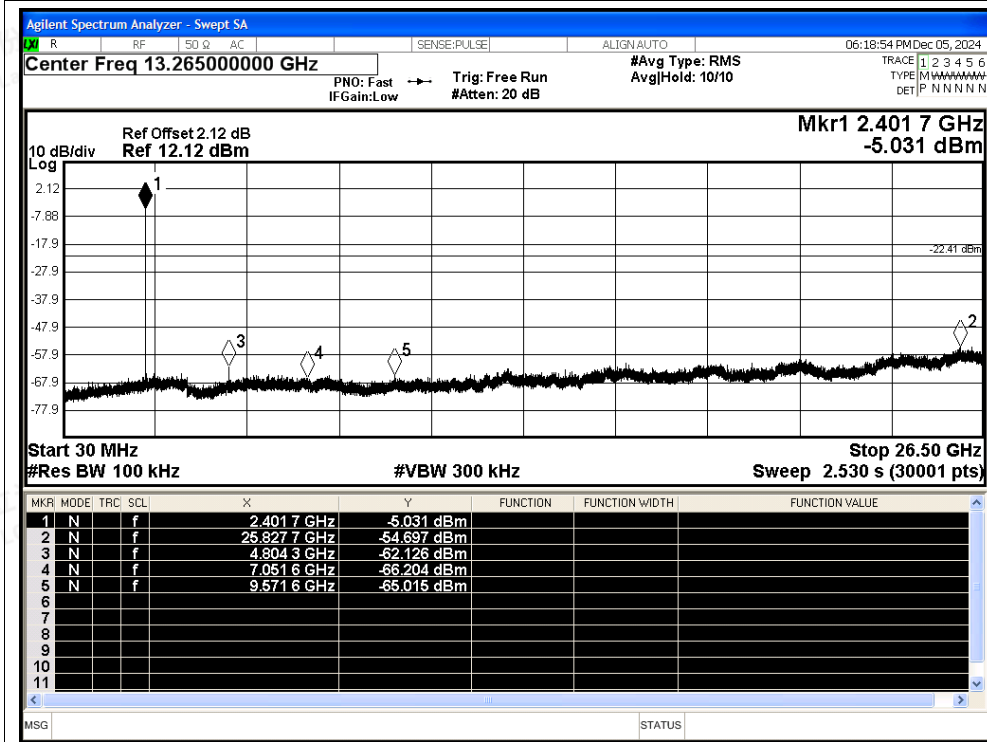




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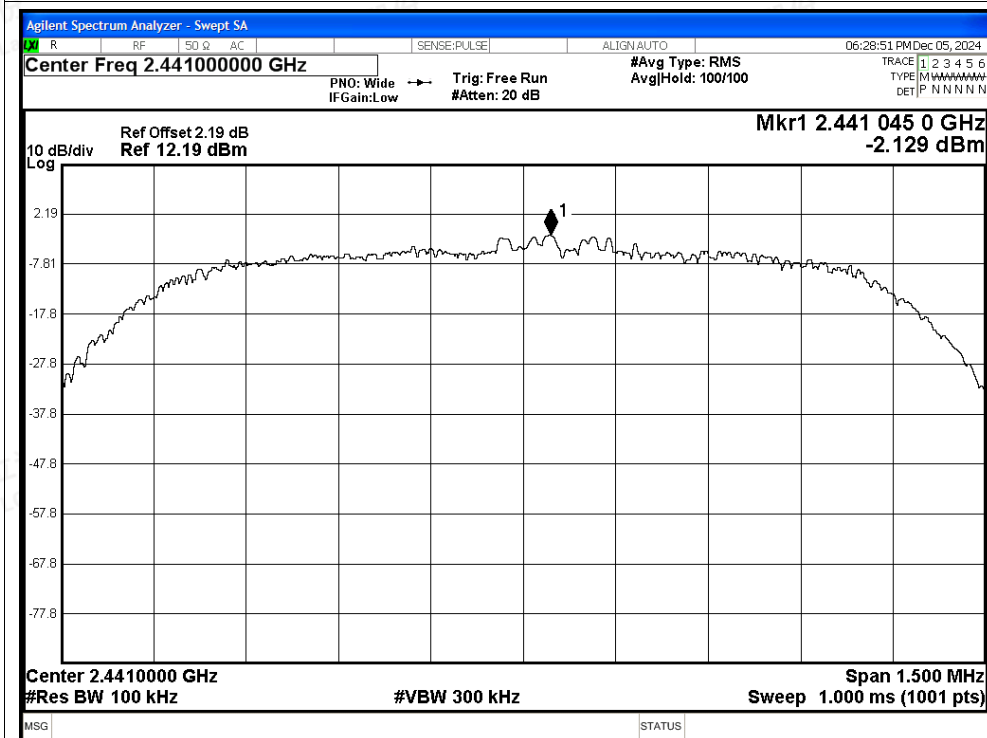


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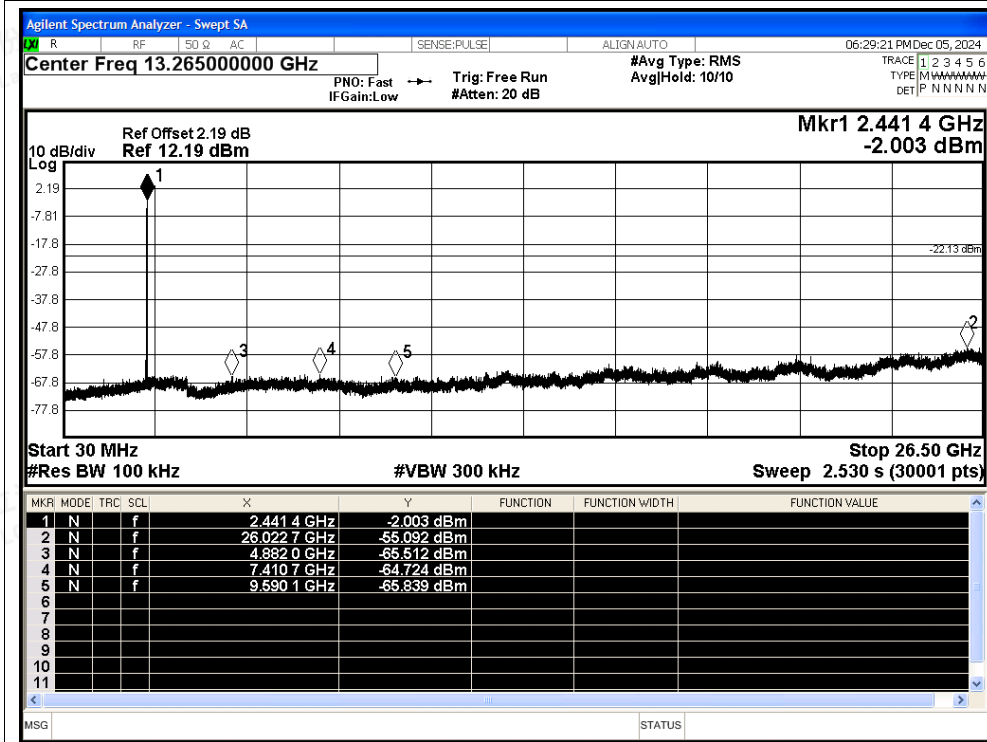




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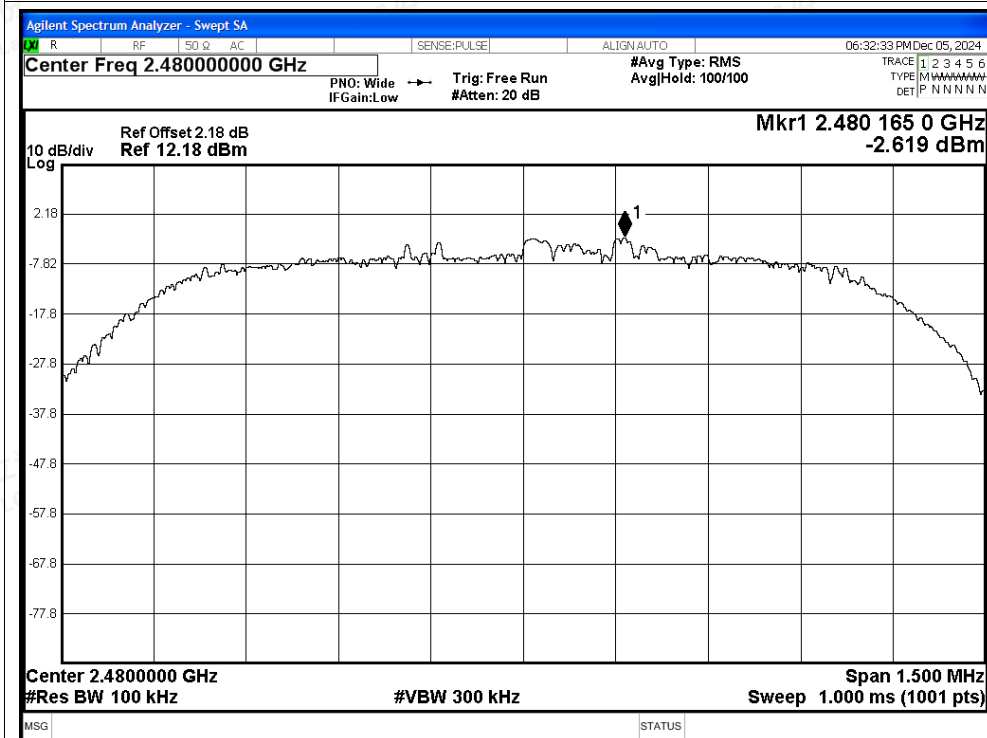


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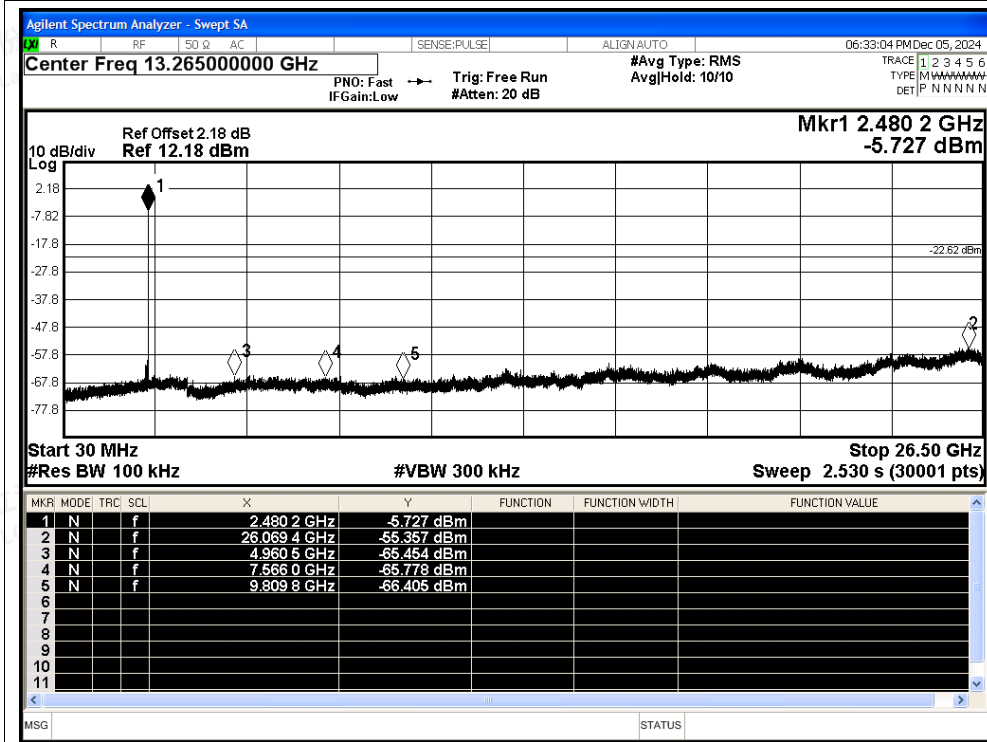




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

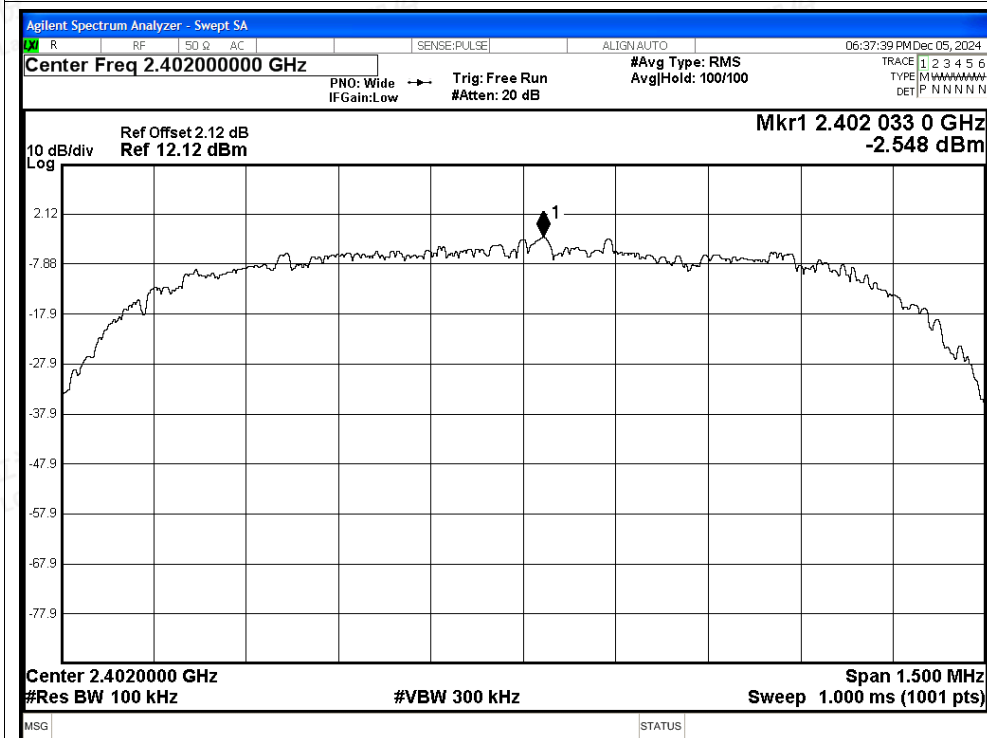


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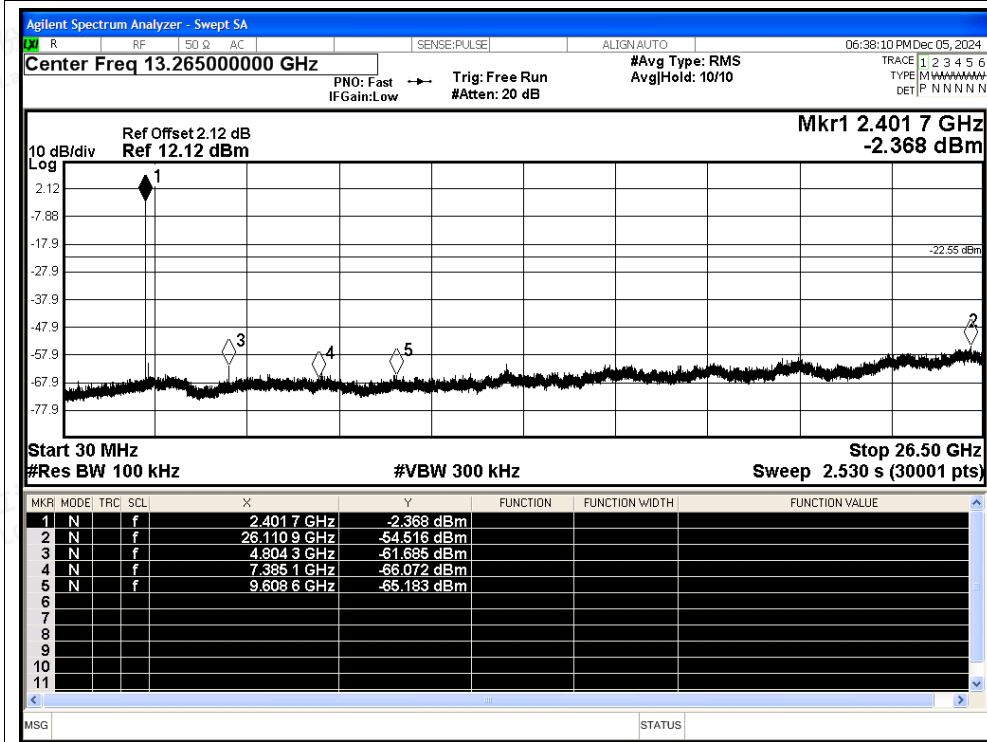




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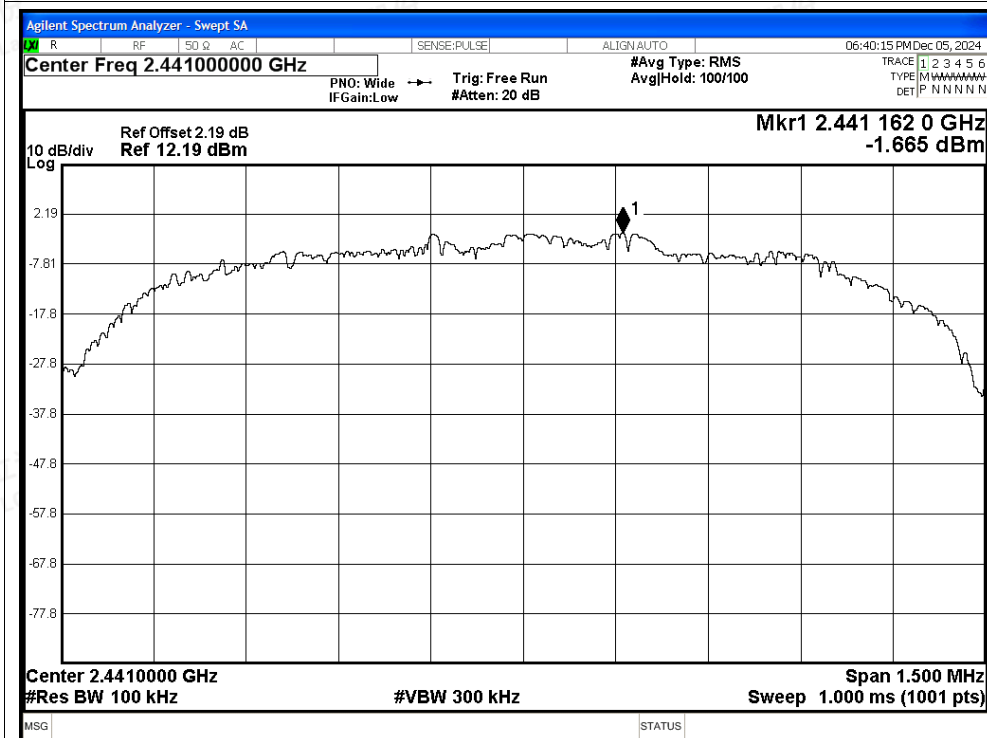


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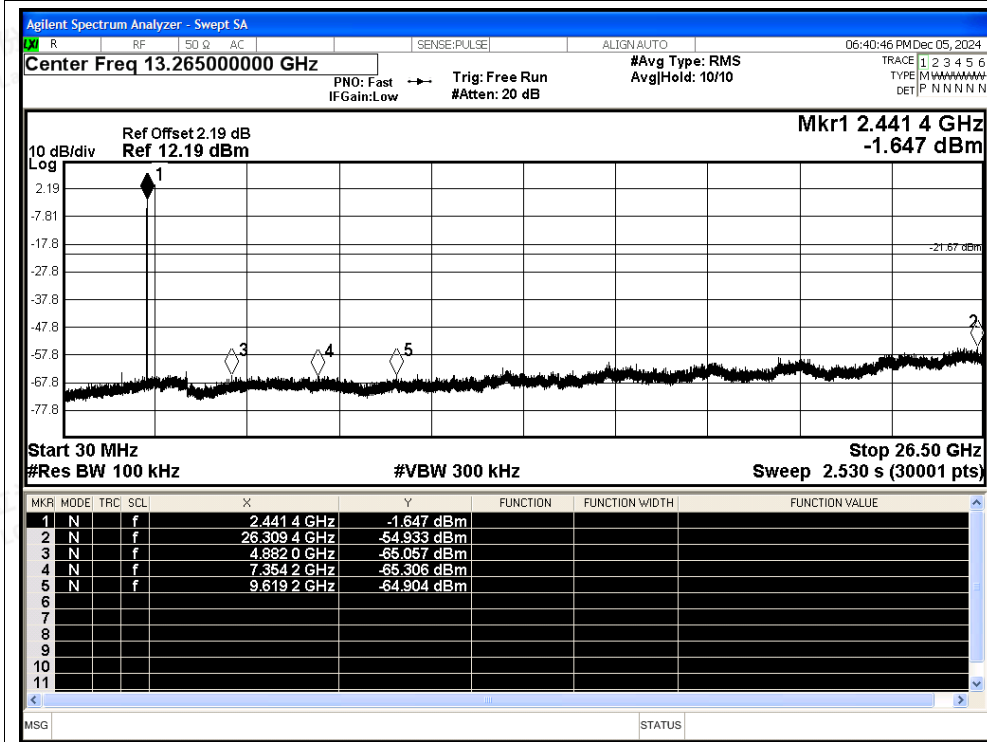




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

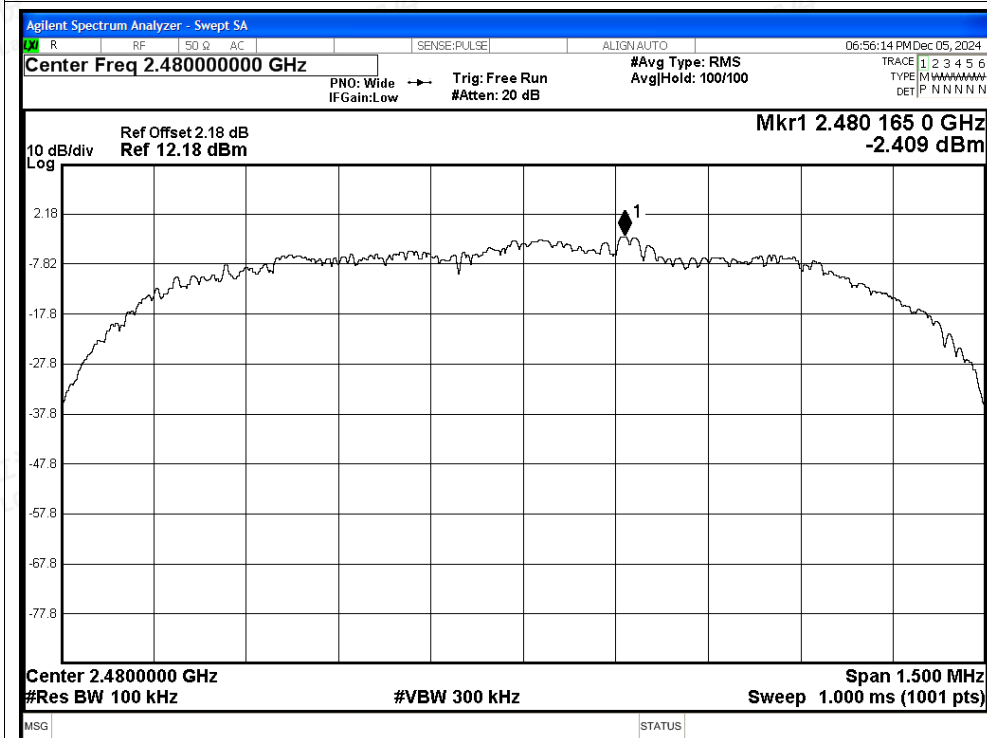


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

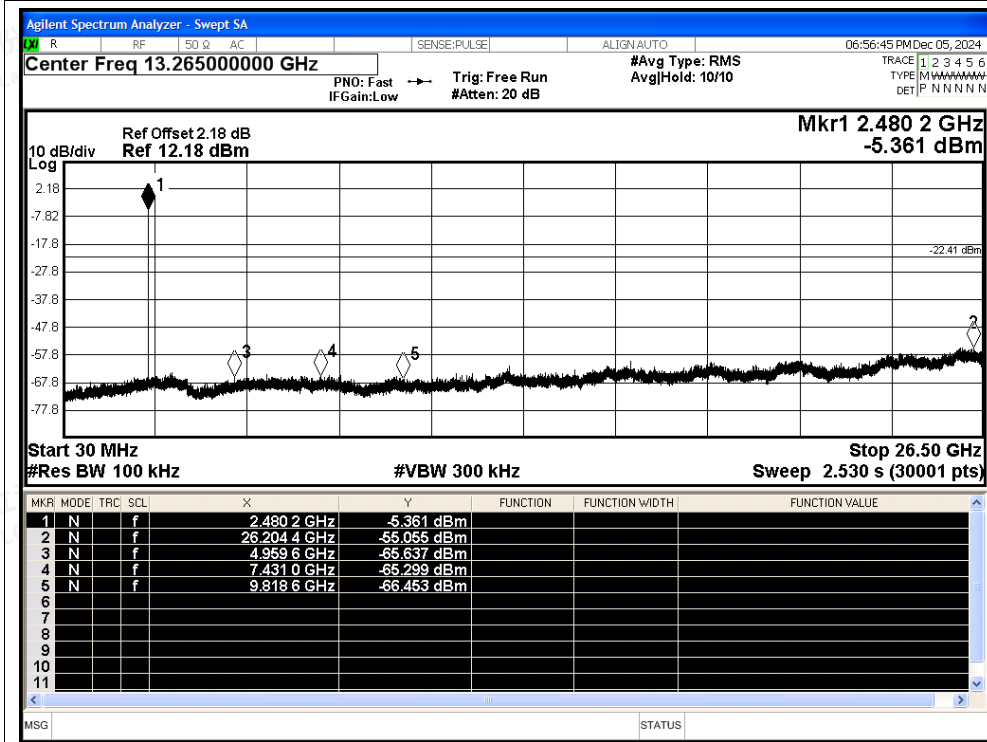




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

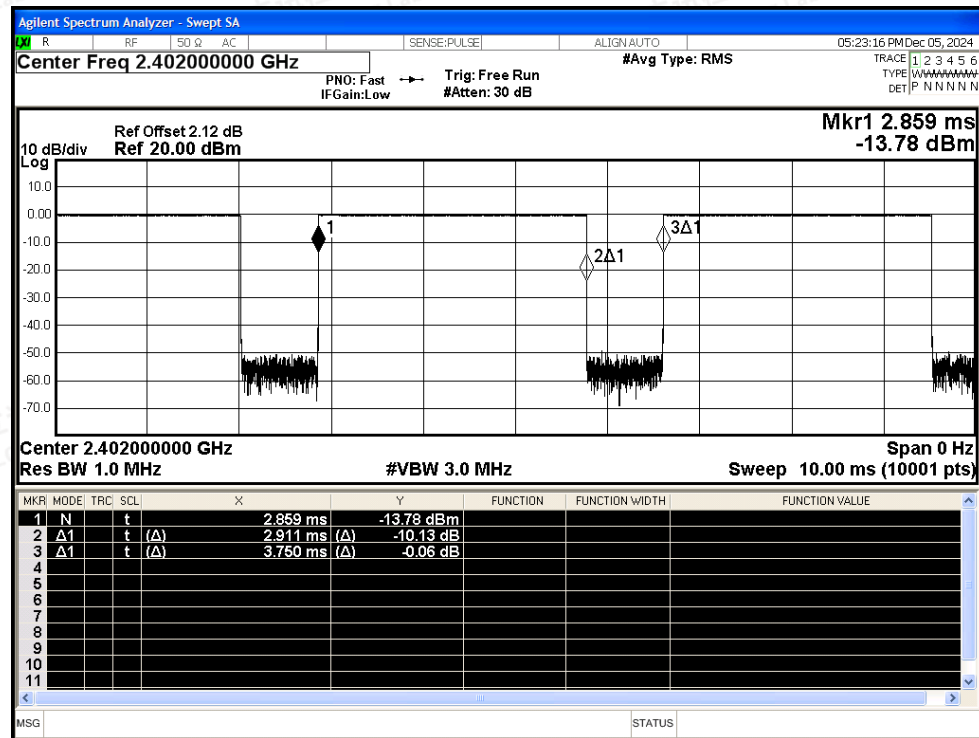


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Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

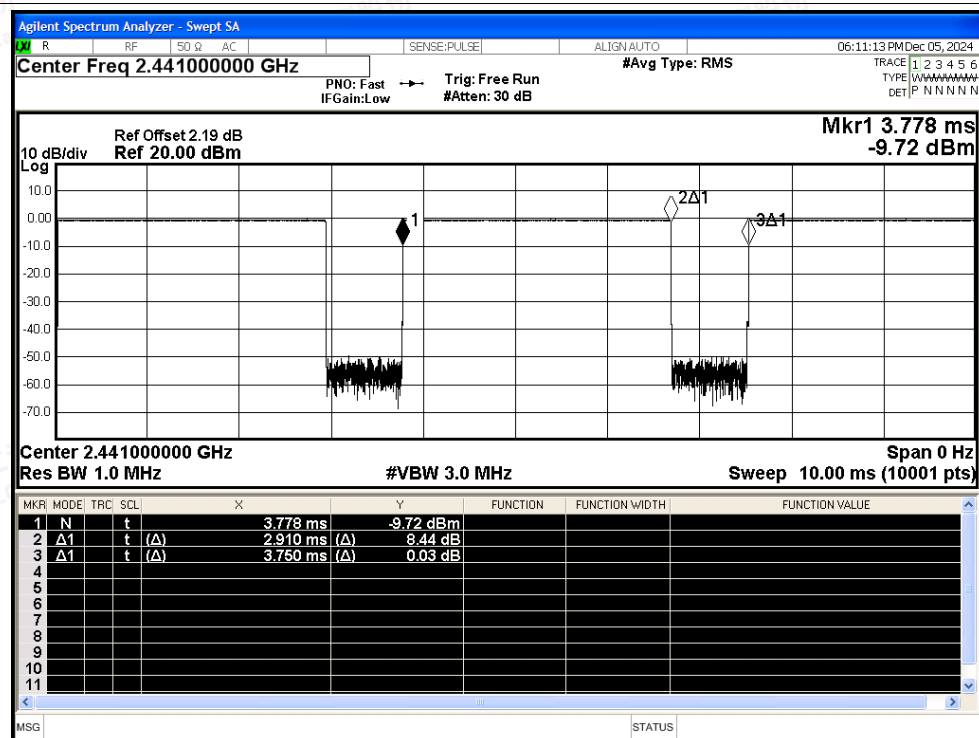


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

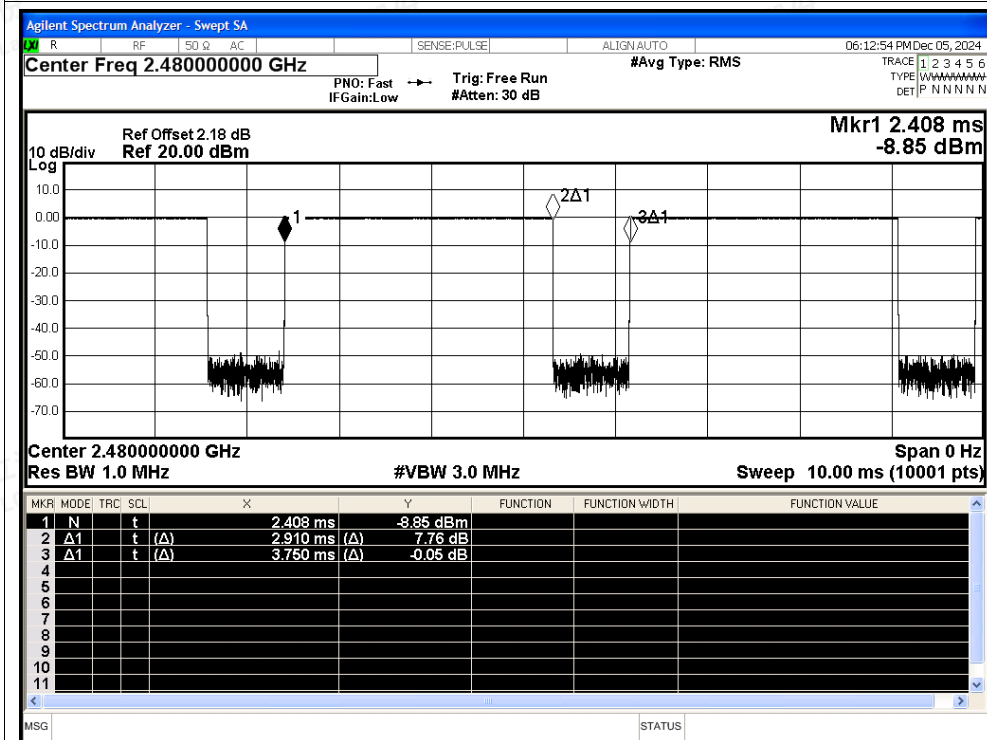


Duty Cycle NVNT 1-DH5 2441MHz Ant1

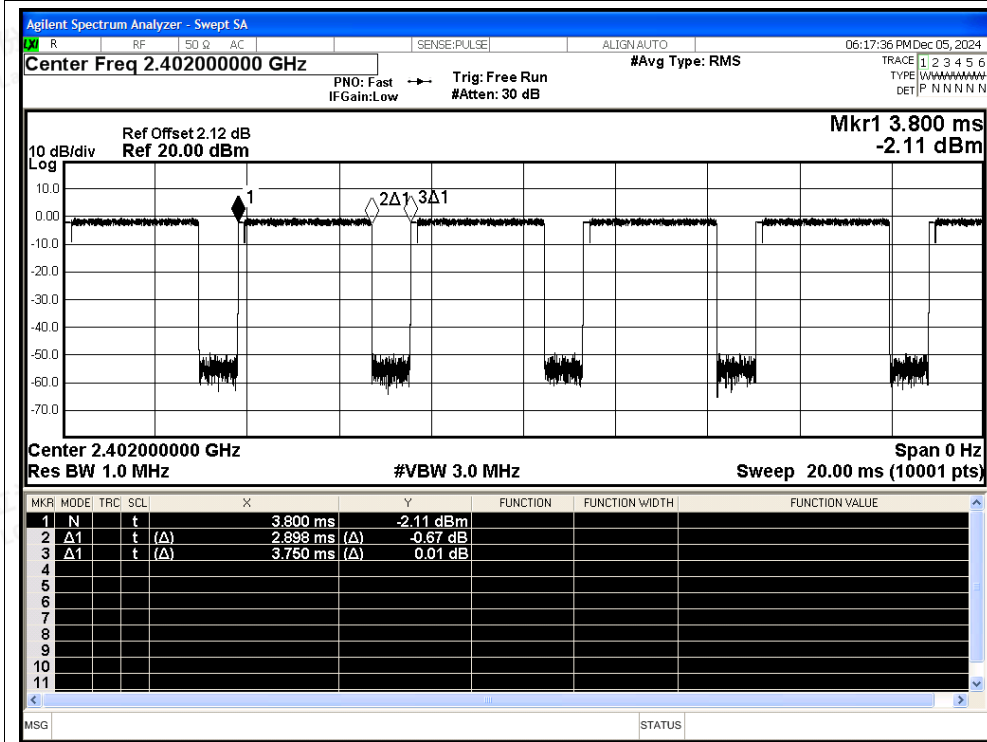




Duty Cycle NVNT 1-DH5 2480MHz Ant1

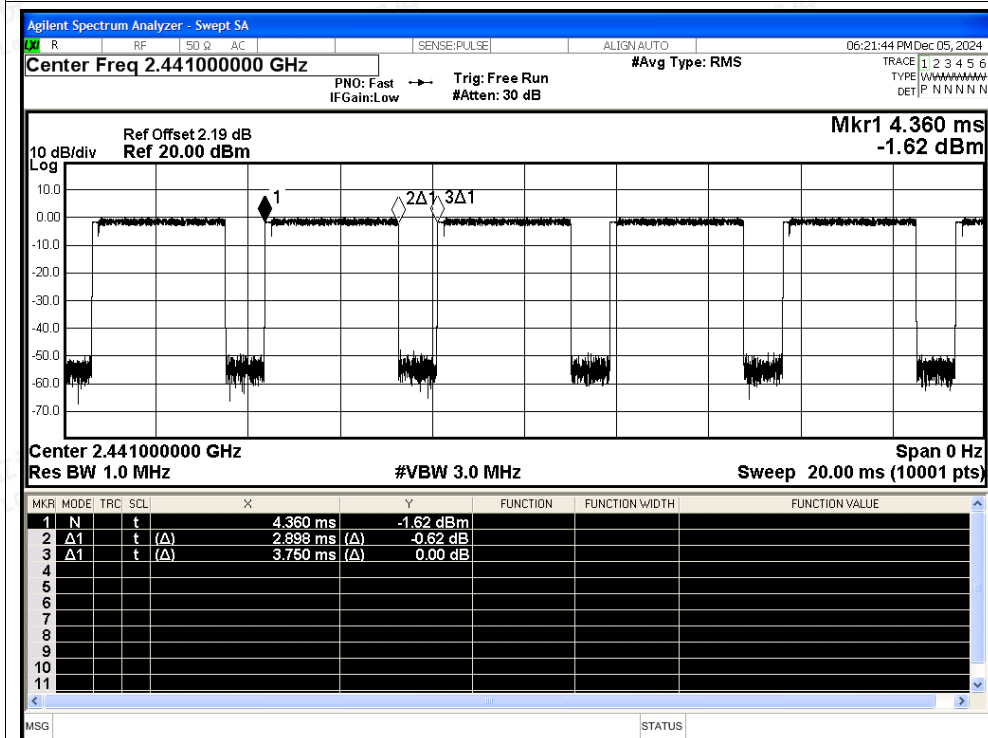


Duty Cycle NVNT 2-DH5 2402MHz Ant1

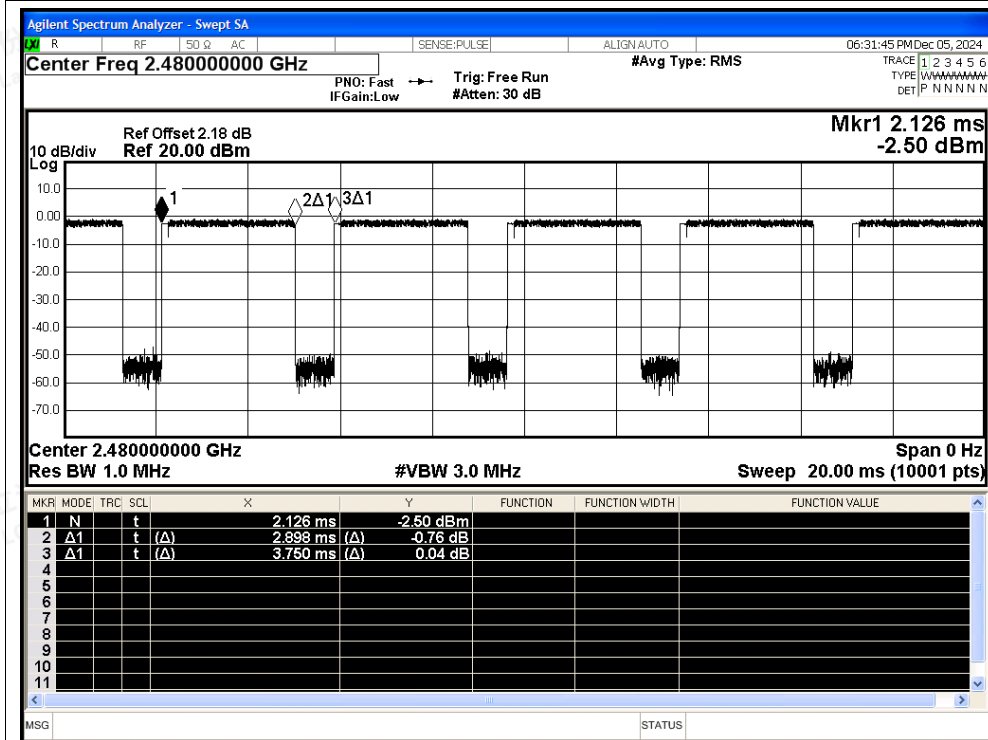




Duty Cycle NVNT 2-DH5 2441MHz Ant1

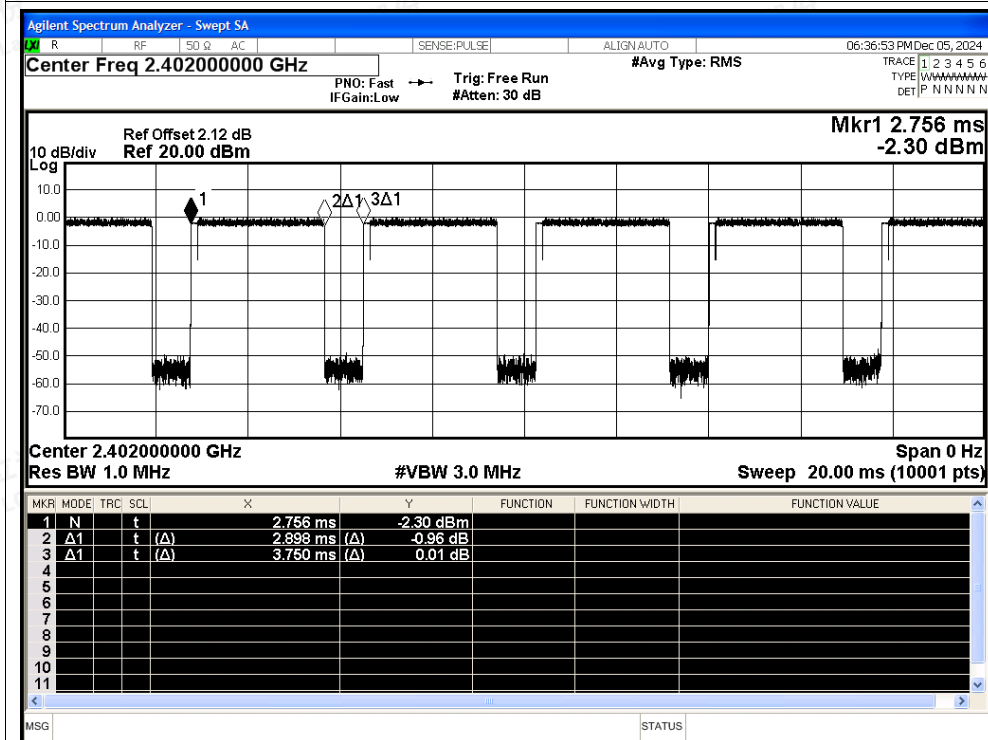


Duty Cycle NVNT 2-DH5 2480MHz Ant1

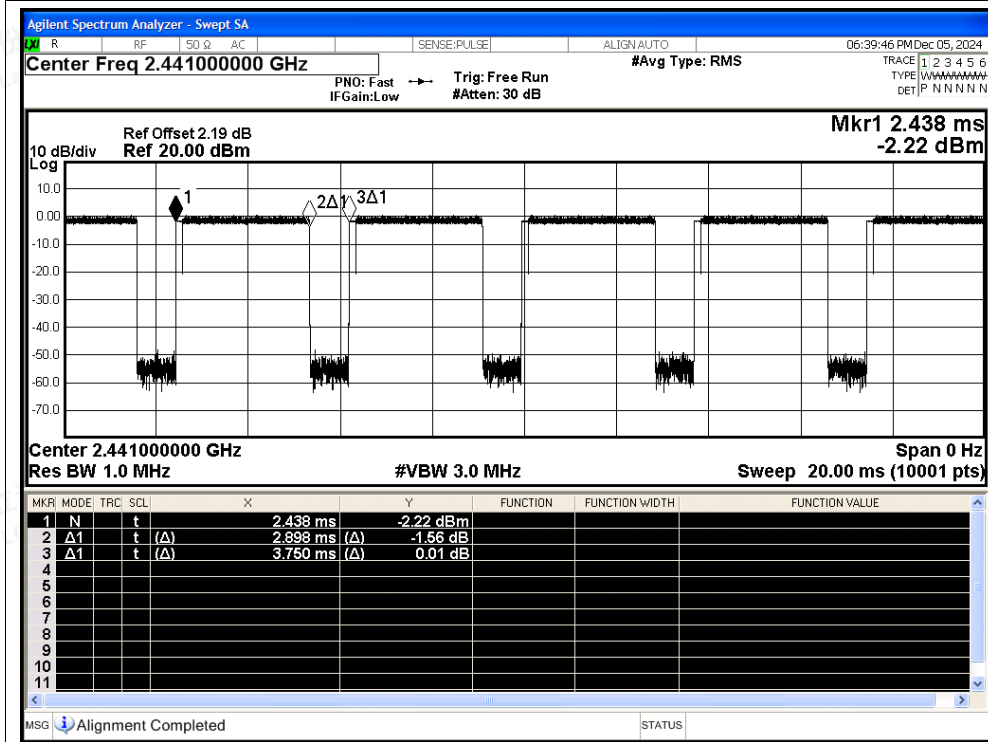


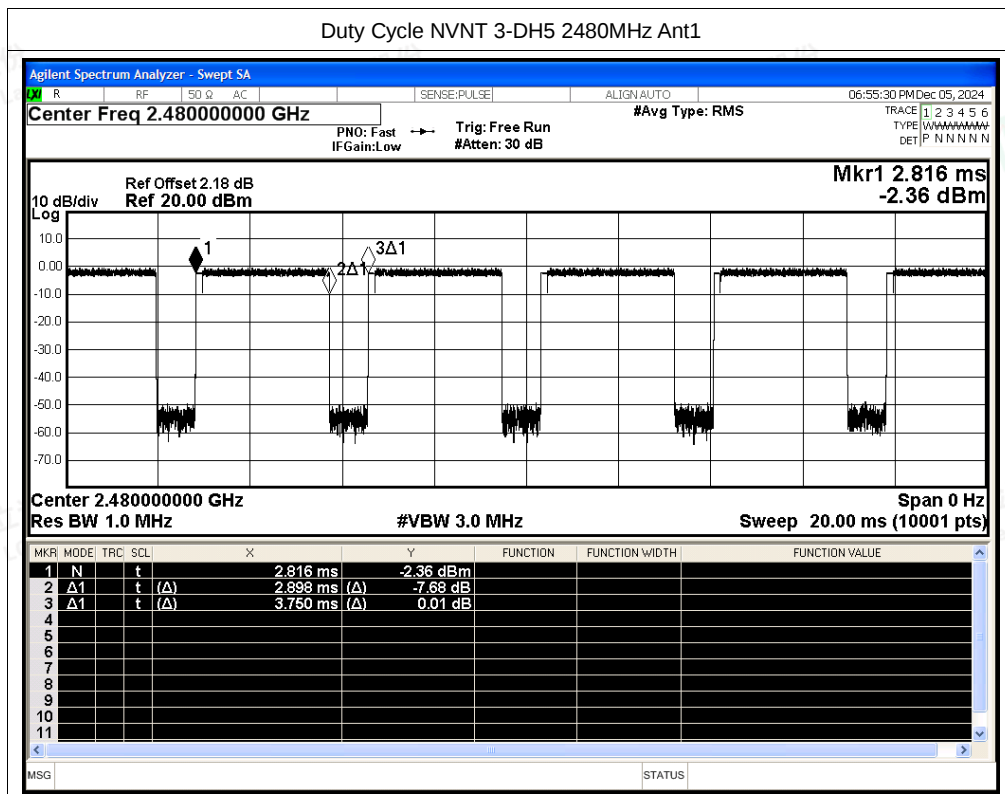


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1







A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-49.62	2	-	47.64	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.54	2	1.1	39.82	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2348.976	-47.48	2	-	49.78	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2353.296	-57.64	2	1.1	40.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.87	2	-	47.39	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.05	2	1.1	40.31	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.74	2	-	46.52	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.63	2	1.1	40.73	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.752	-45.98	2	-	51.28	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.2	-57.03	2	1.1	41.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.61	2	-	46.65	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.59	2	1.1	40.77	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.17	2	-	47.09	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.42	2	1.12	39.96	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2367.312	-47.3	2	-	49.96	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2362.128	-57.71	2	1.12	40.67	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.39	2	-	46.87	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.19	2	1.12	40.19	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.32	2	-	47.94	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.74	2	1.12	40.64	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2493.208	-46.76	2	-	50.5	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2497.312	-57.01	2	1.12	41.37	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.91	2	-	47.35	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.91	2	1.12	40.47	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.37	2	-	46.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59	2	1.12	39.38	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2365.872	-47.5	2	-	49.76	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2379.216	-57.67	2	1.12	40.71	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.18	2	-	47.08	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.51	2	1.12	39.87	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-48.99	2	-	48.27	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.58	2	1.12	40.8	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.832	-46.07	2	-	51.19	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2498.632	-57.01	2	1.12	41.37	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.22	2	-	47.04	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.18	2	1.12	40.2	Average	54	Pass

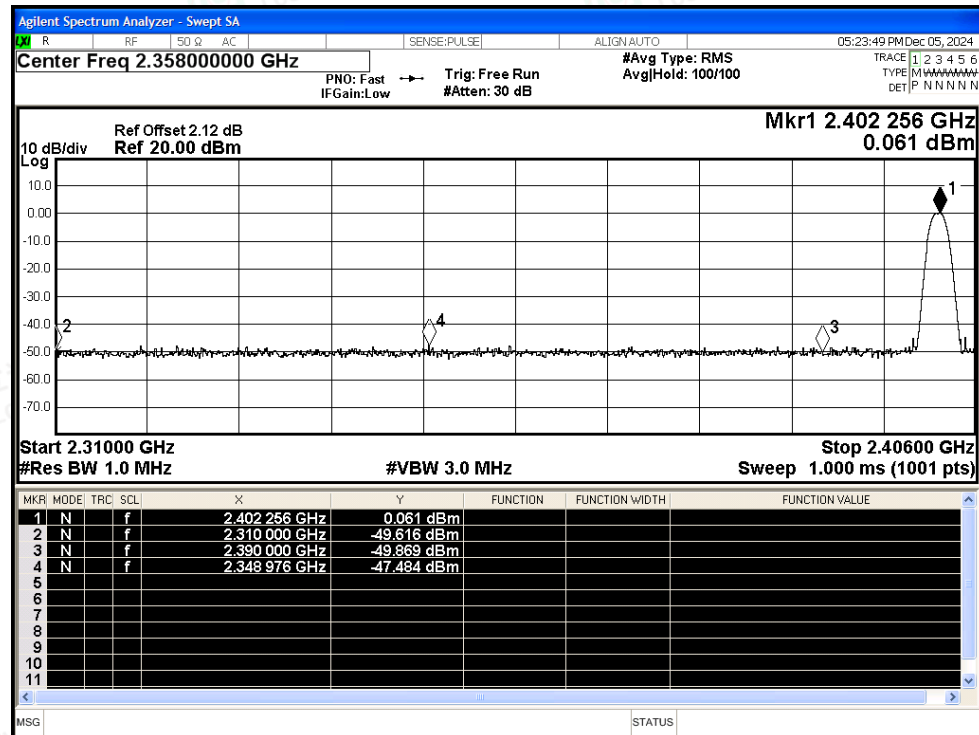


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Test Graphs

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



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

