



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: All in one

Test Model: D10

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	0.951	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.96	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.962	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.328	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.286	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.314	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.299	N/A	Pass

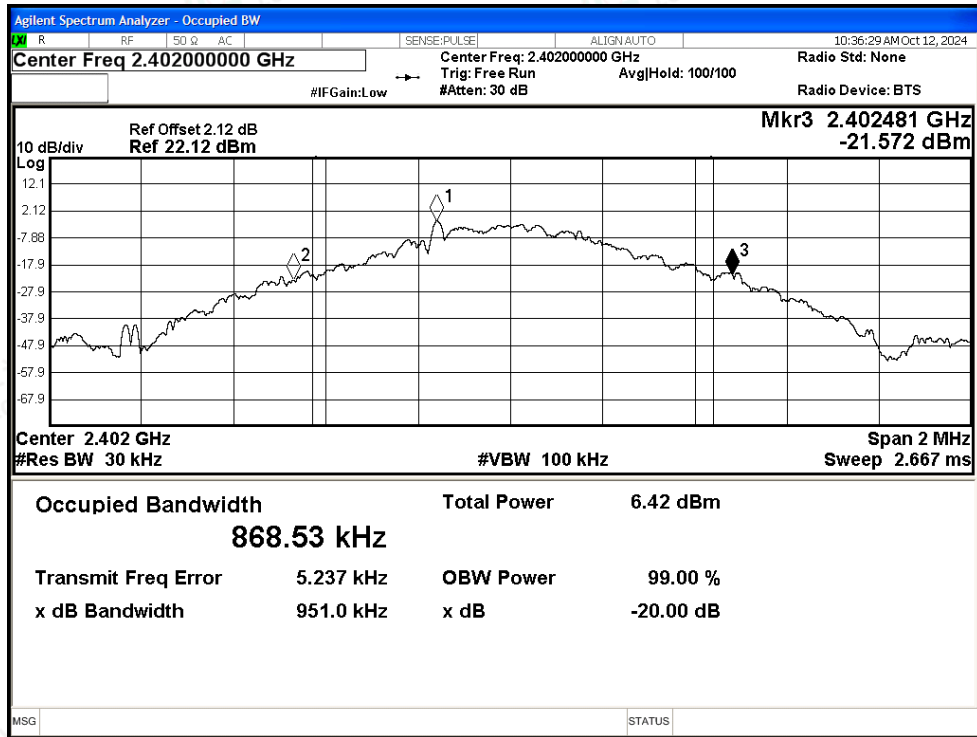


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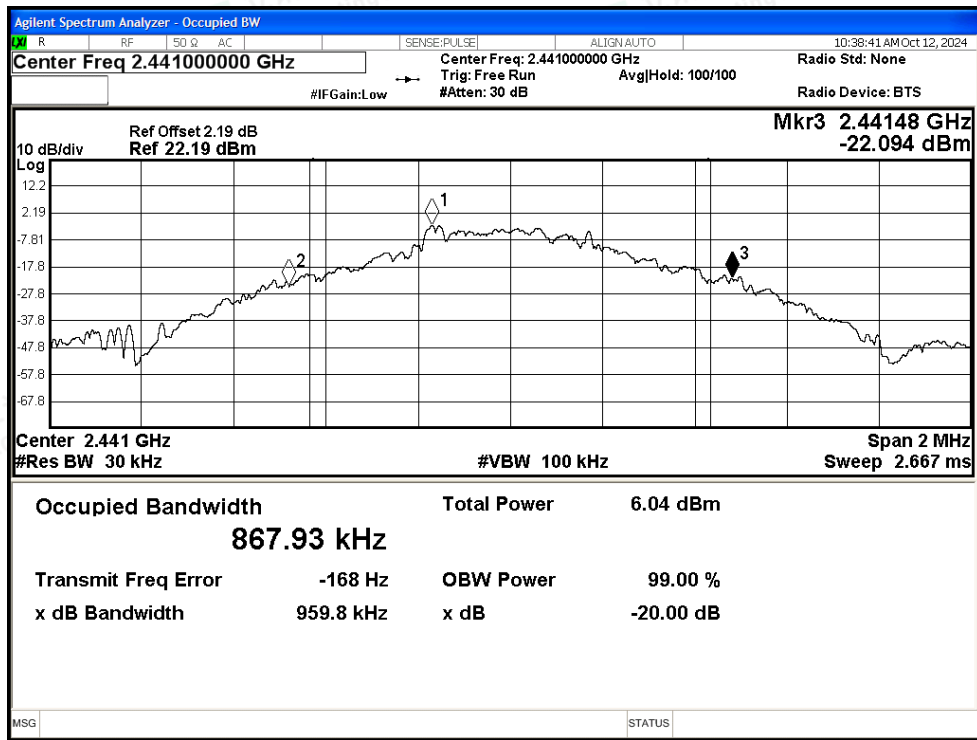


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

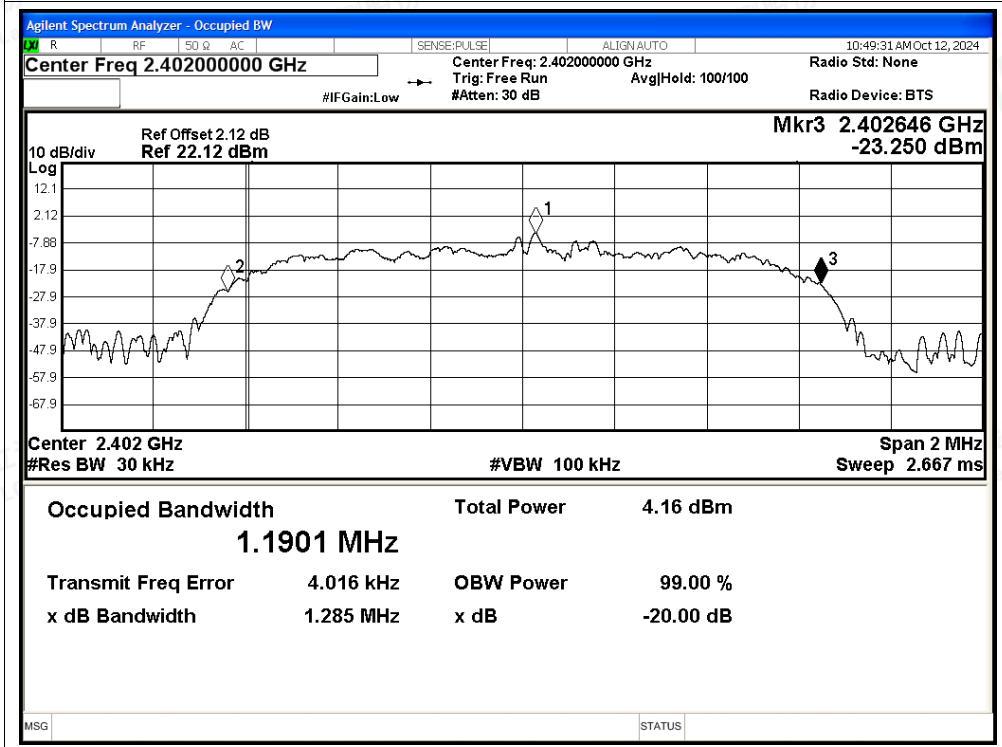




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

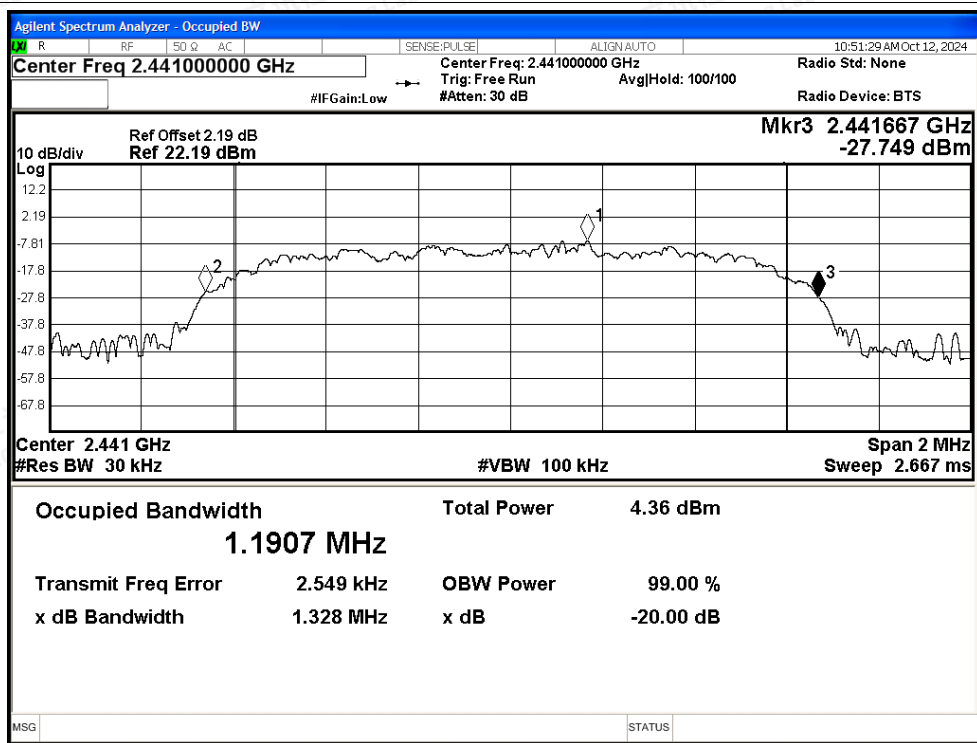


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

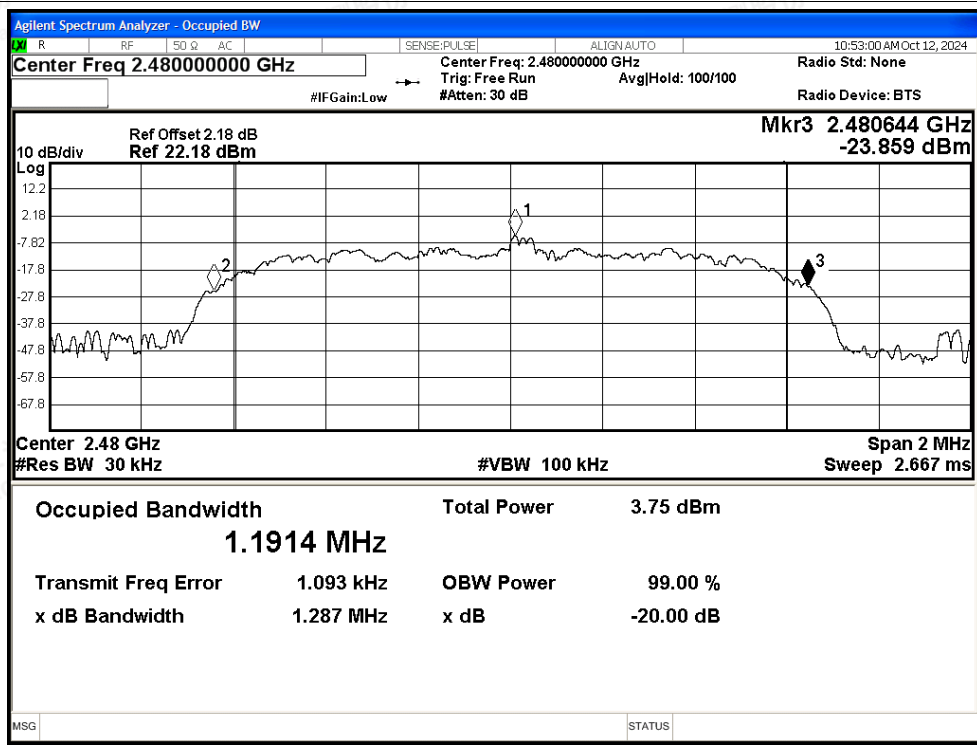




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

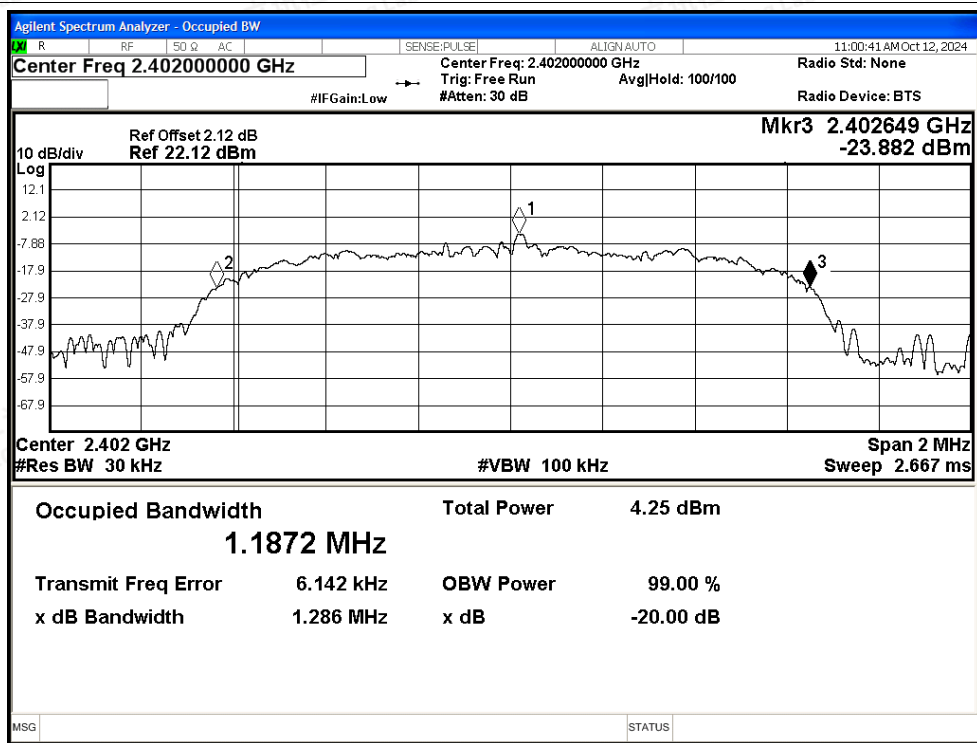


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

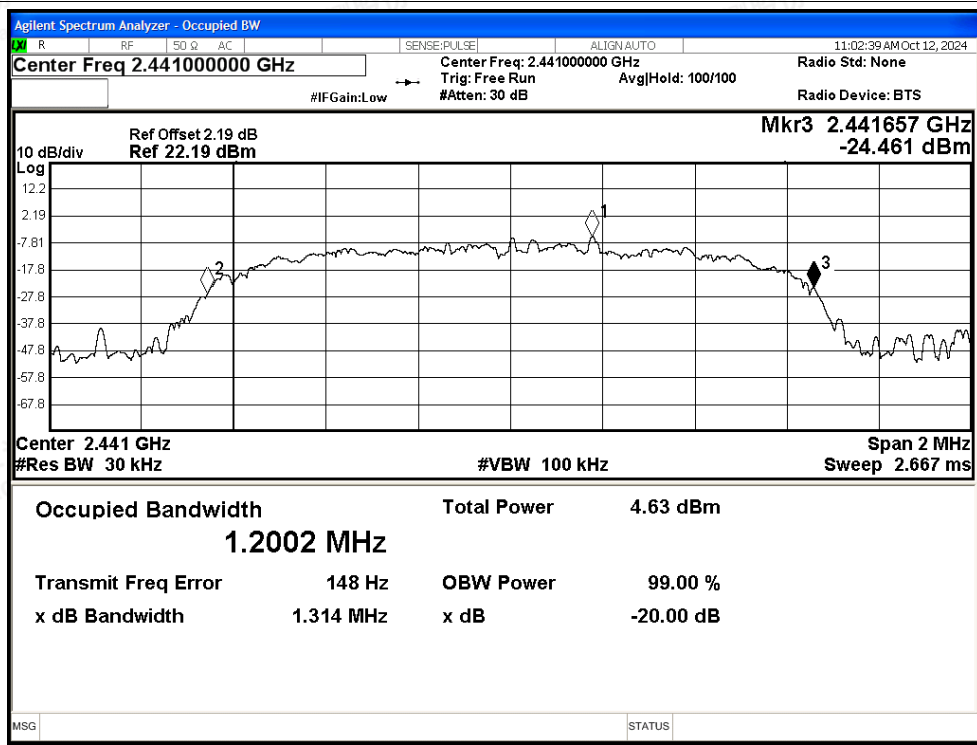


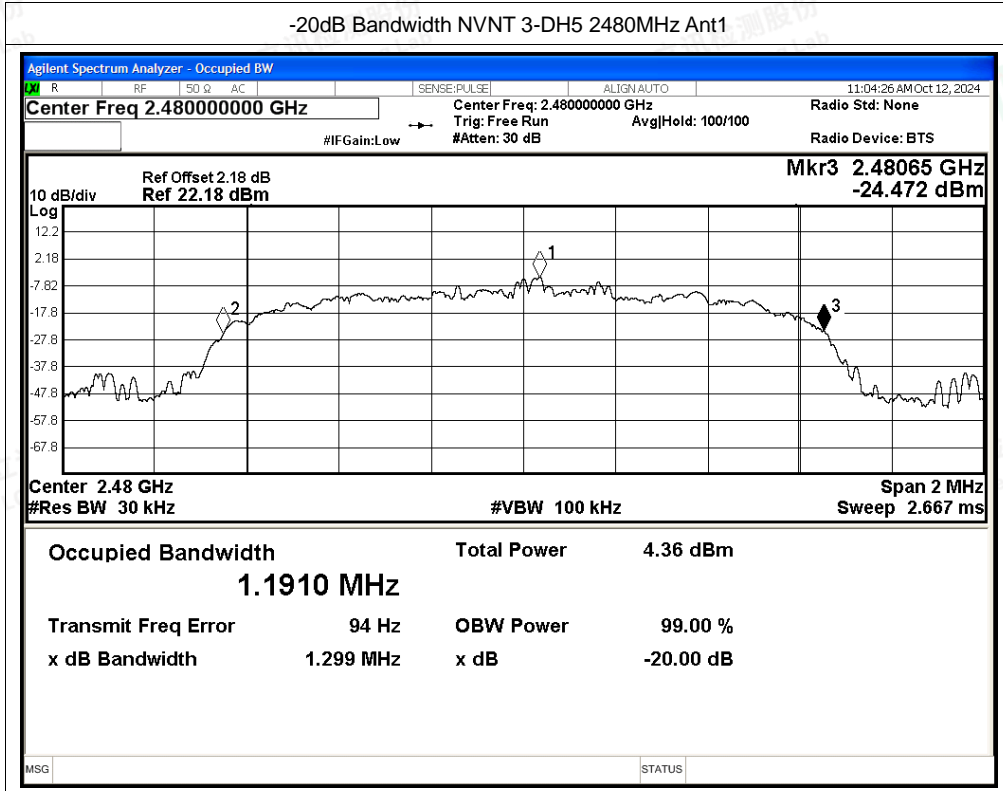


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-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	-0.08	21	Pass
NVNT	1-DH5	2441	Ant1	-0.44	21	Pass
NVNT	1-DH5	2480	Ant1	1.05	21	Pass
NVNT	2-DH5	2402	Ant1	-0.09	21	Pass
NVNT	2-DH5	2441	Ant1	0.45	21	Pass
NVNT	2-DH5	2480	Ant1	-0.33	21	Pass
NVNT	3-DH5	2402	Ant1	0.38	21	Pass
NVNT	3-DH5	2441	Ant1	0.86	21	Pass
NVNT	3-DH5	2480	Ant1	-0.11	21	Pass

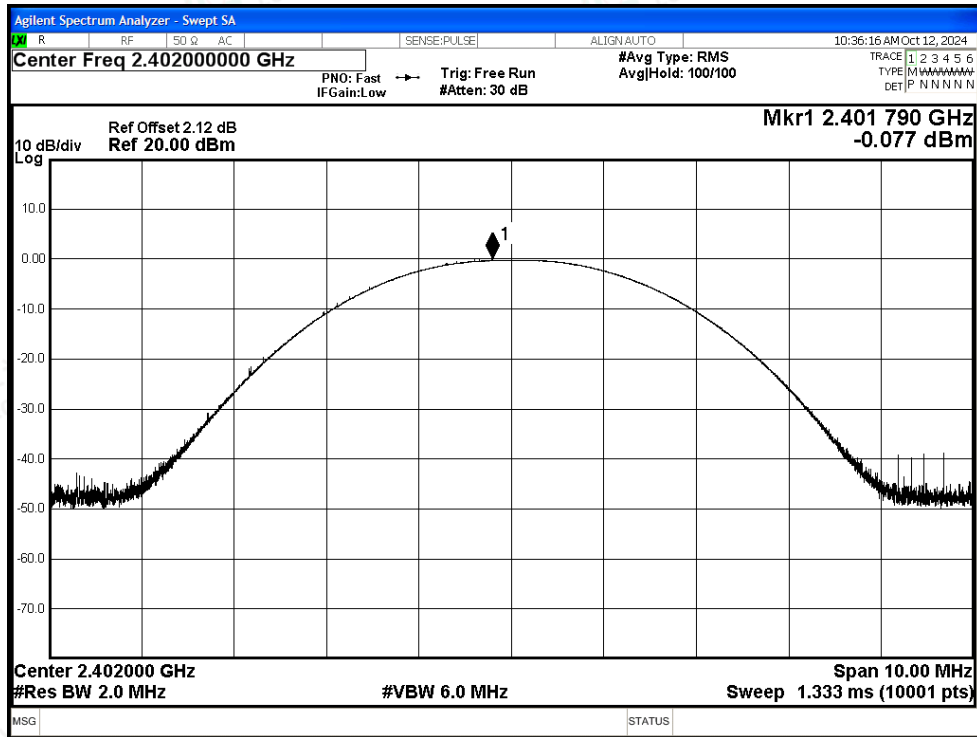


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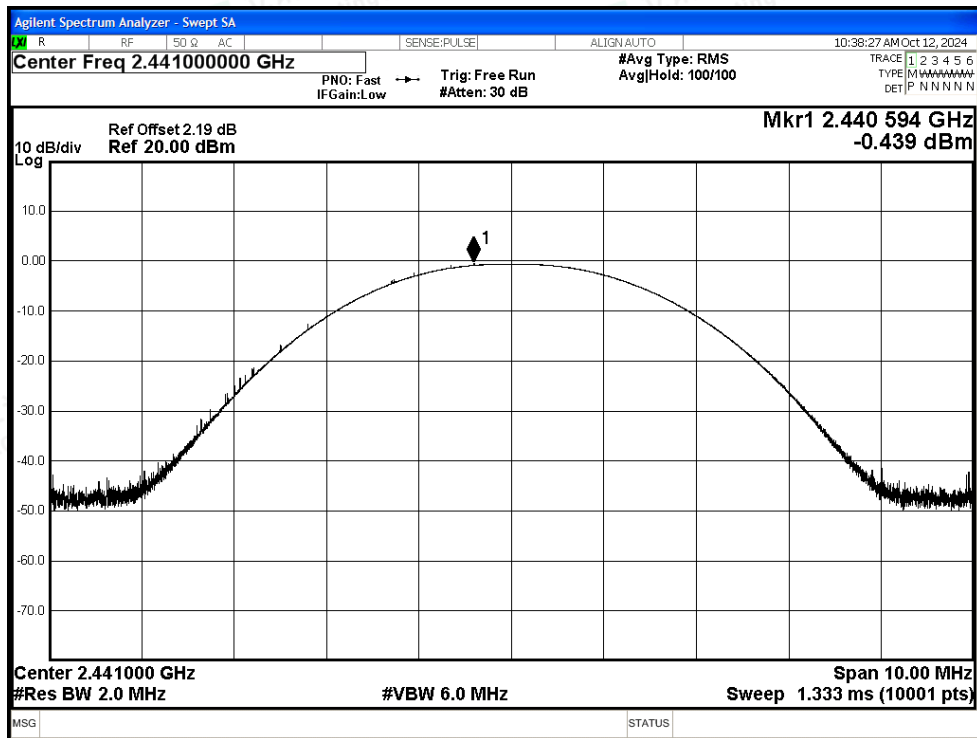


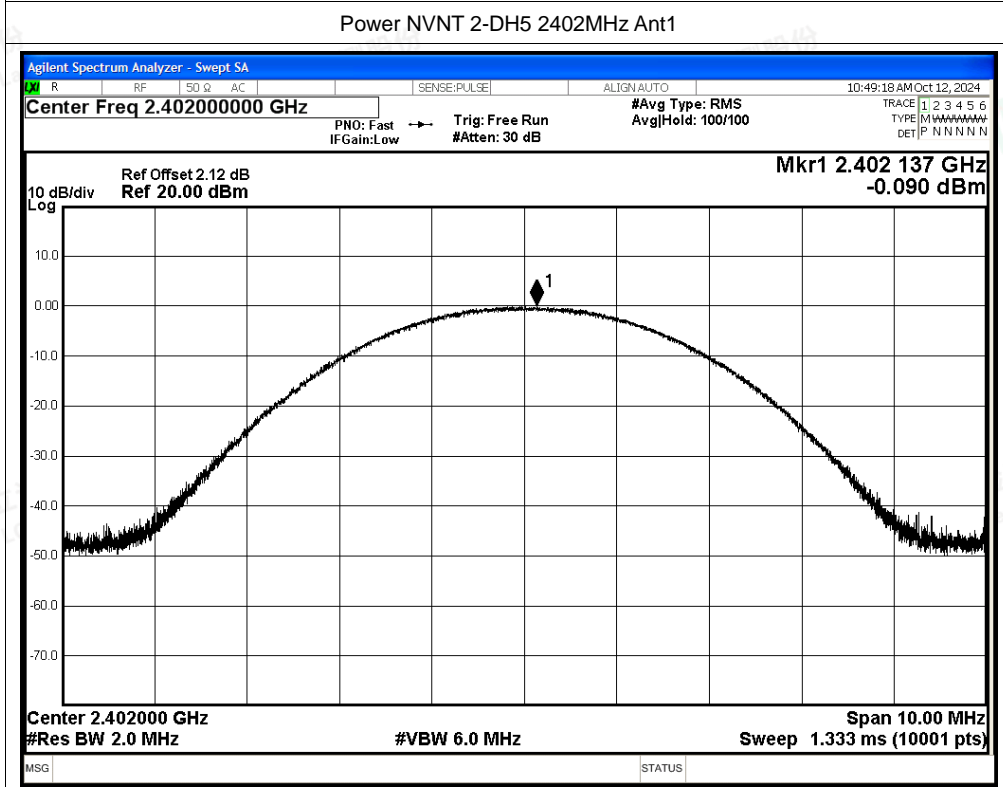
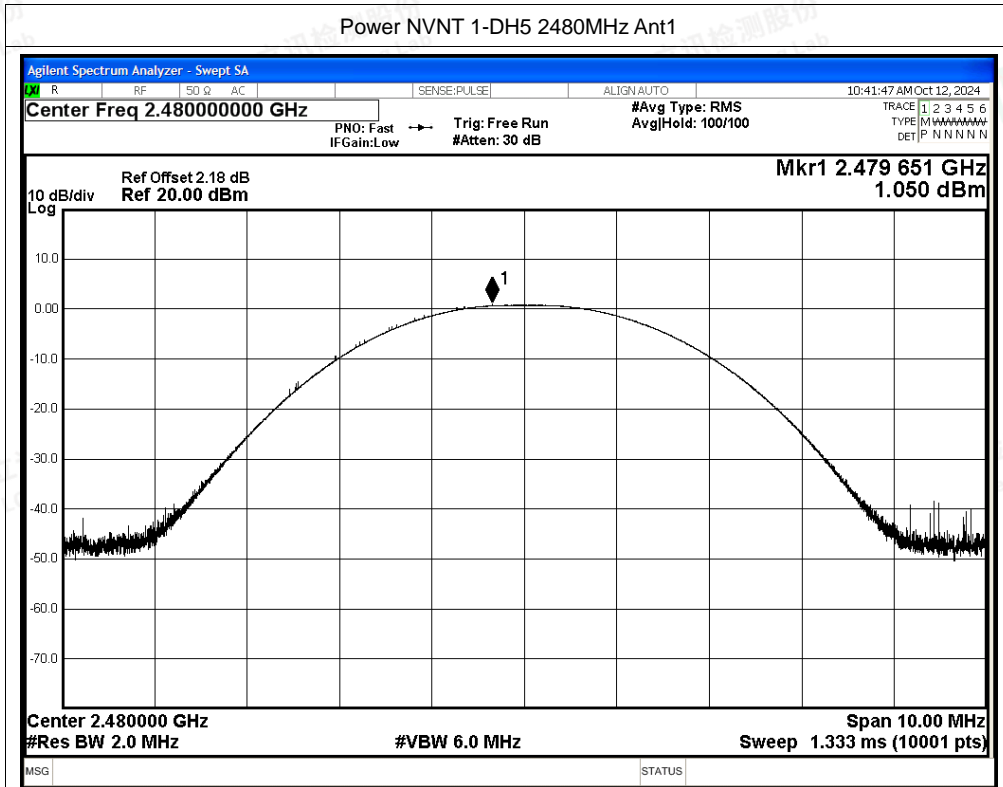
Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



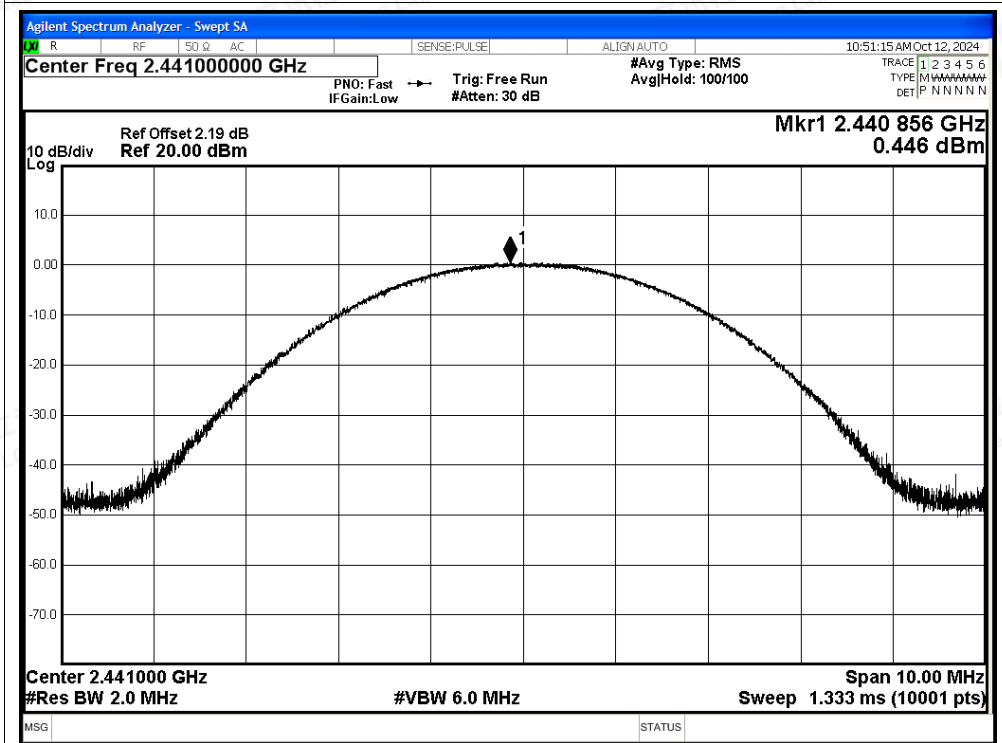
Power NVNT 1-DH5 2441MHz Ant1



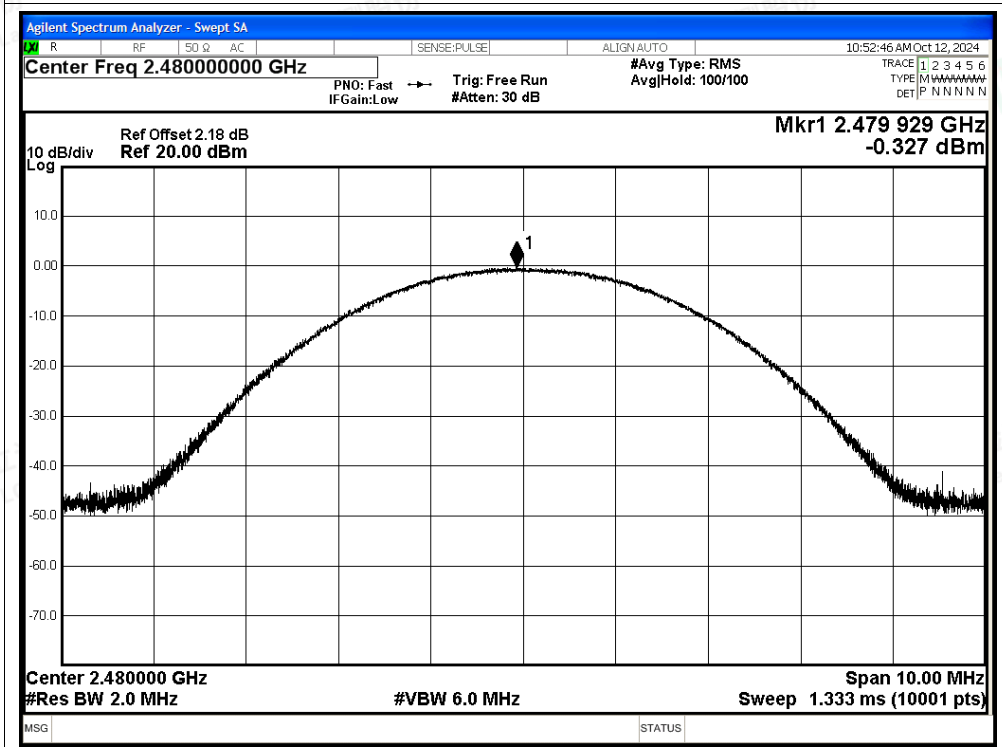




Power NVNT 2-DH5 2441MHz Ant1

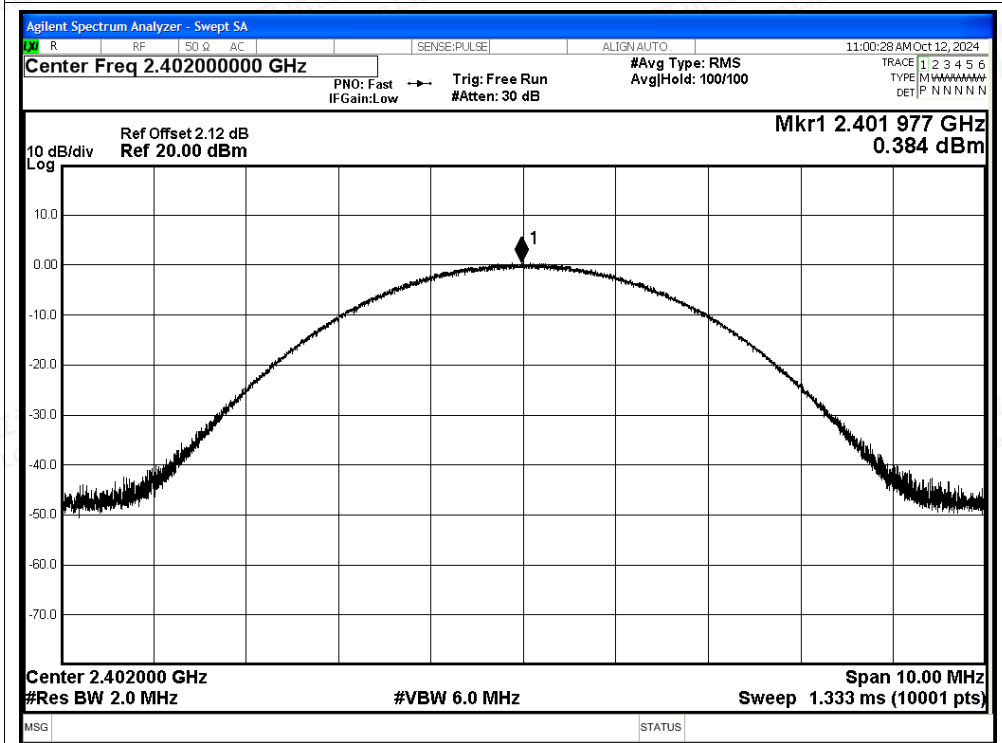


Power NVNT 2-DH5 2480MHz Ant1

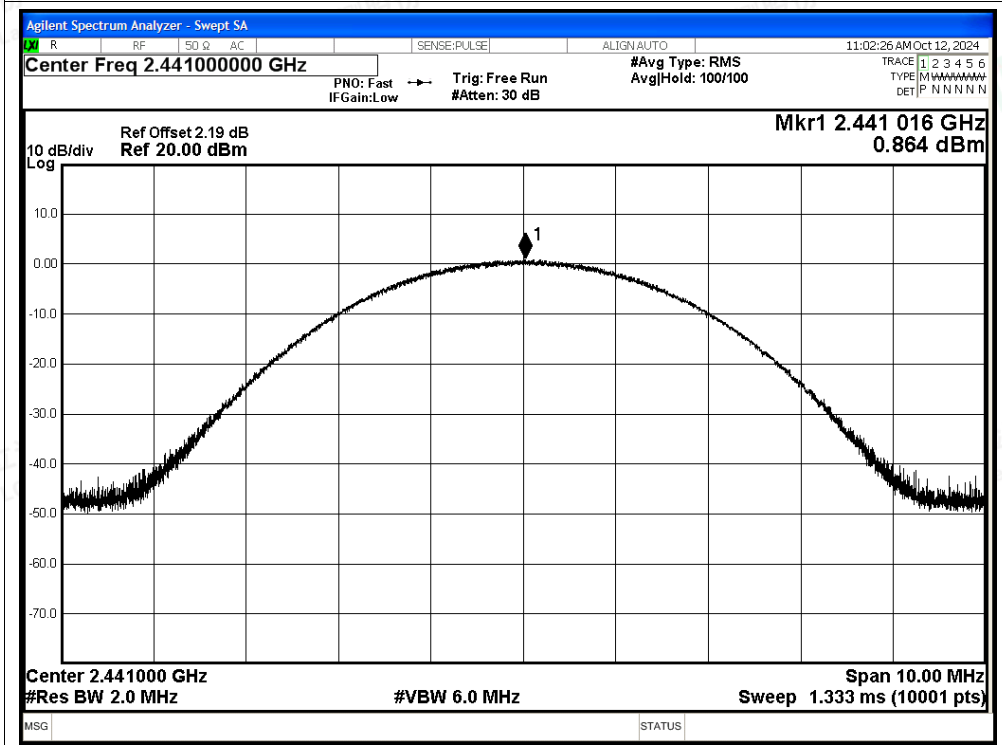


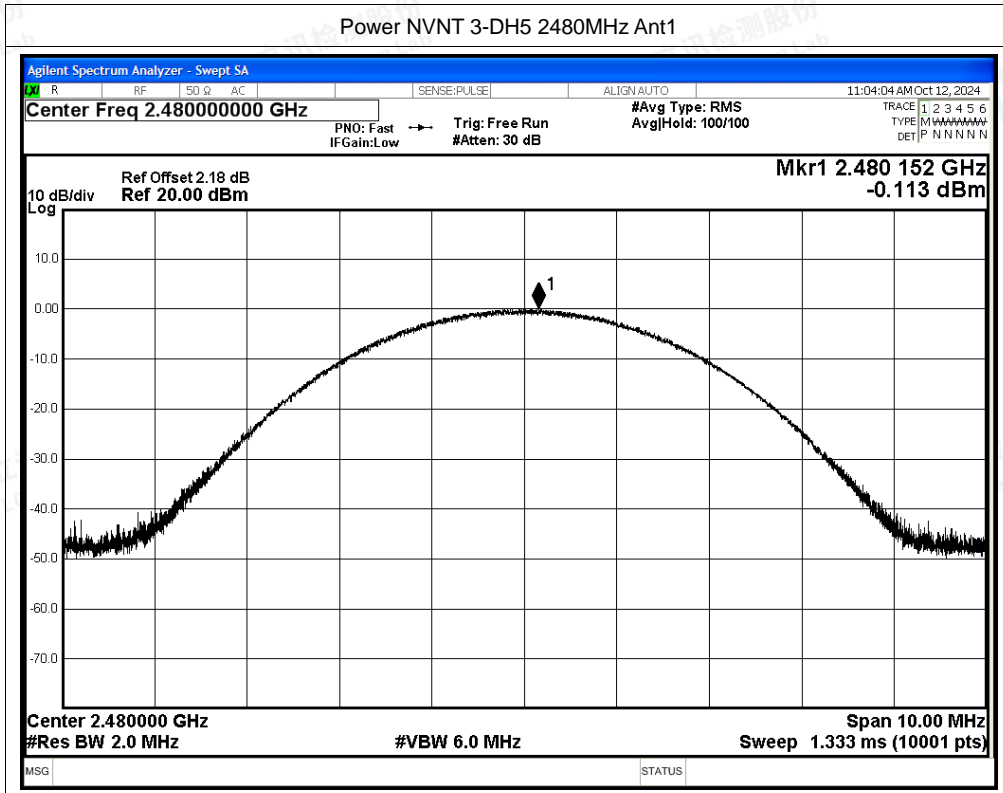


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.838	2402.978	1.14	0.641	Pass
NVNT	2-DH5	Ant1	2402.038	2403.004	0.966	0.885	Pass
NVNT	3-DH5	Ant1	2402.038	2403.012	0.974	0.876	Pass

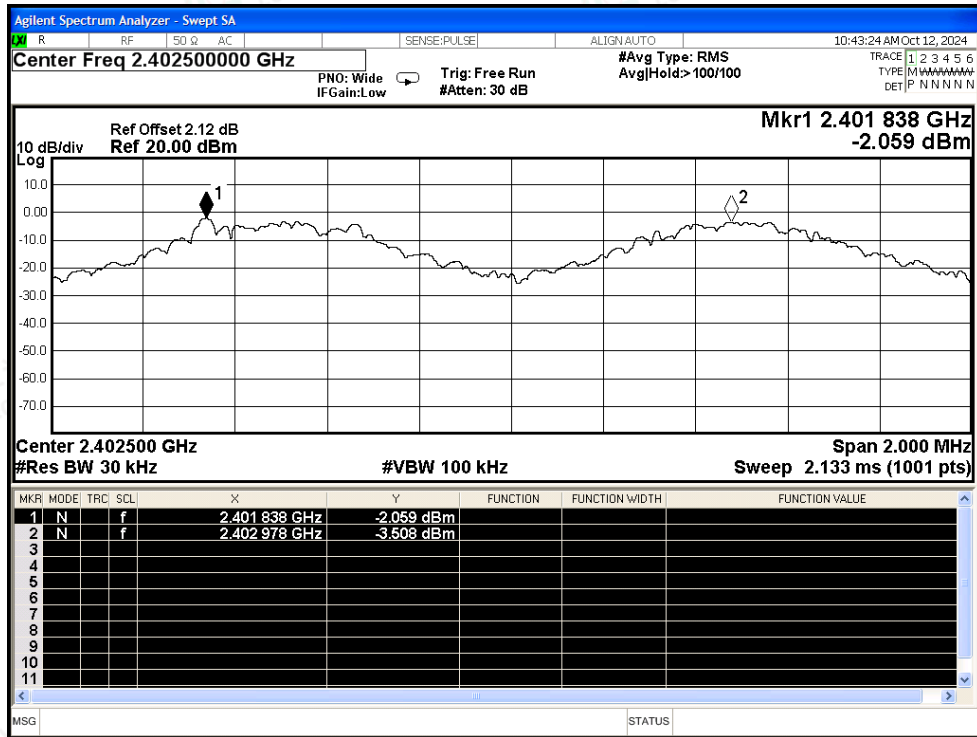


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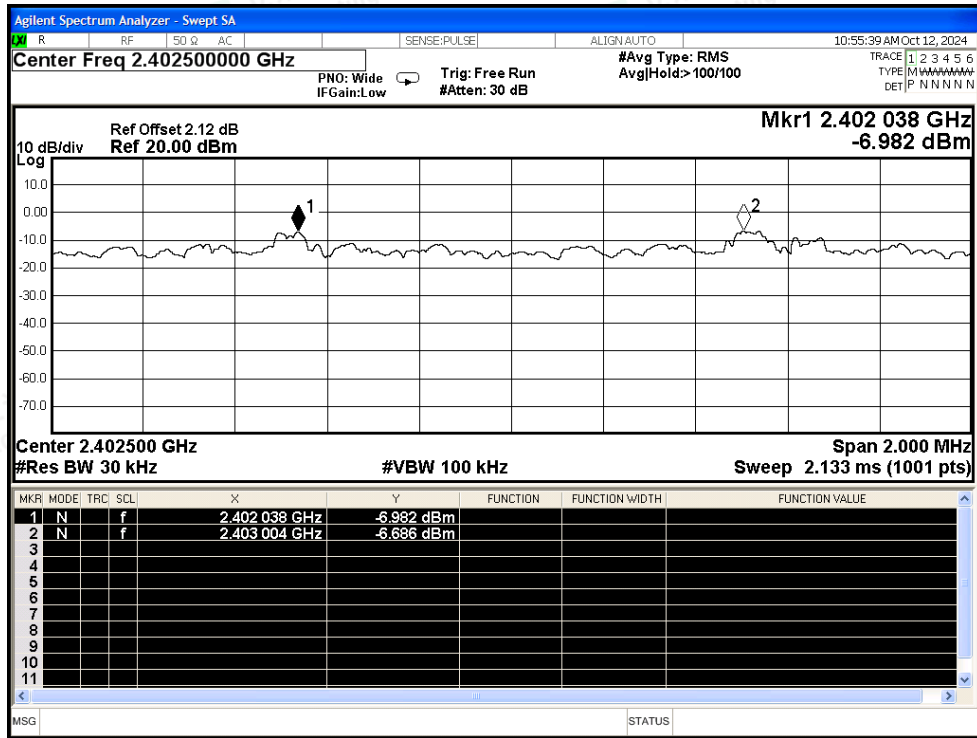


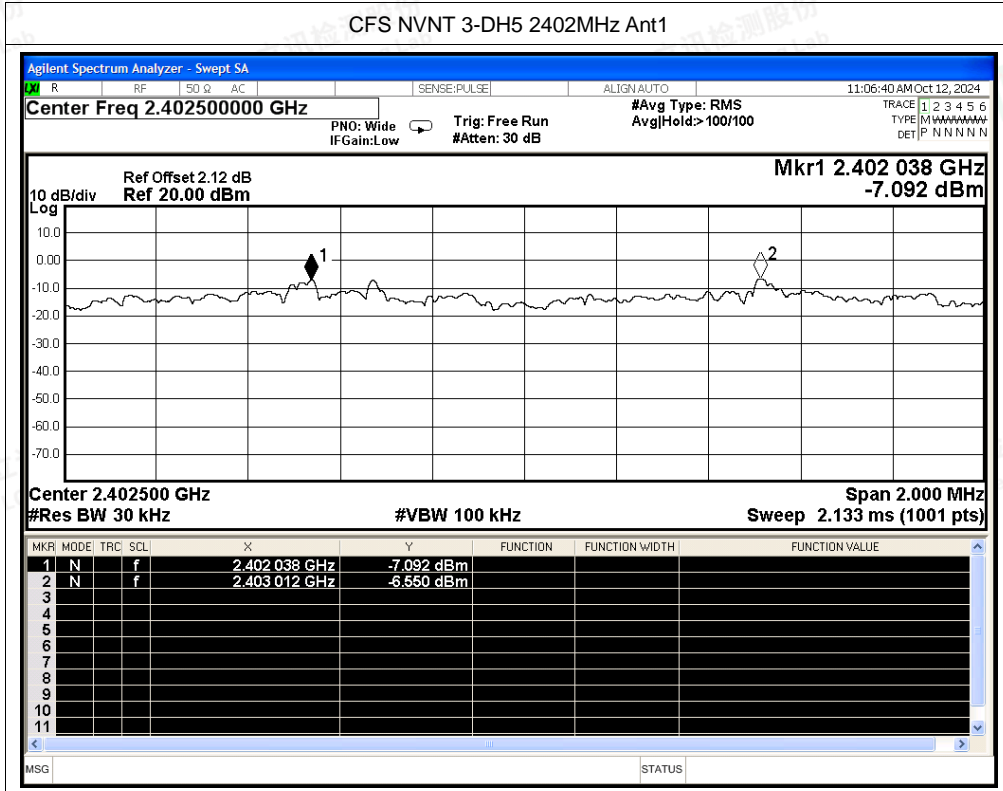
Test Graphs

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	334.65	115	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	312.984	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	289.7	100	31600	400	Pass

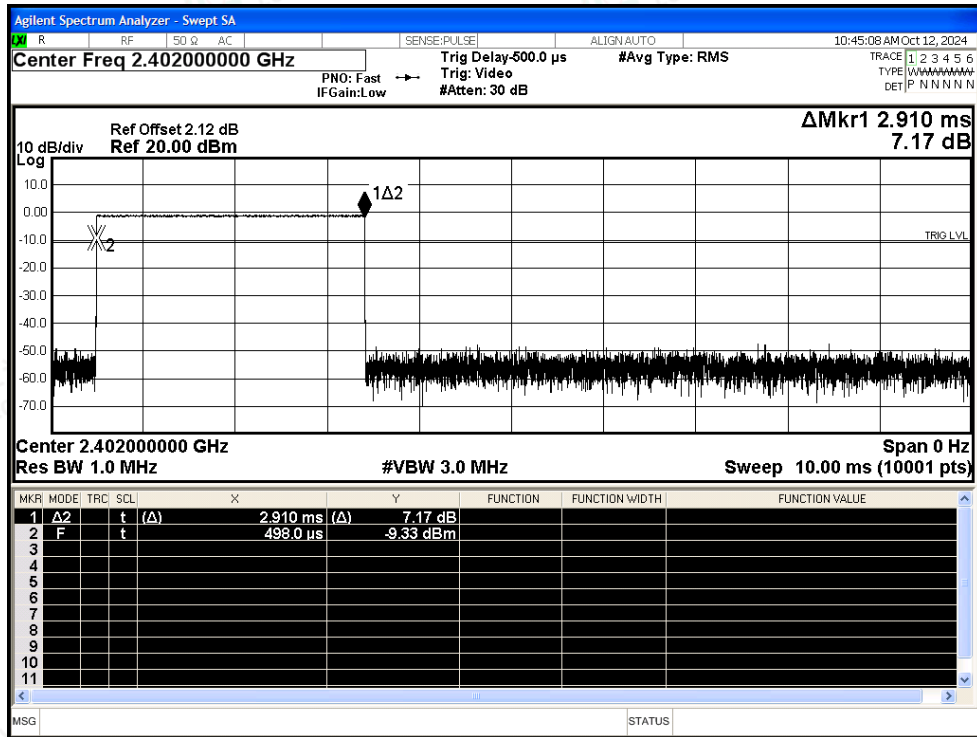


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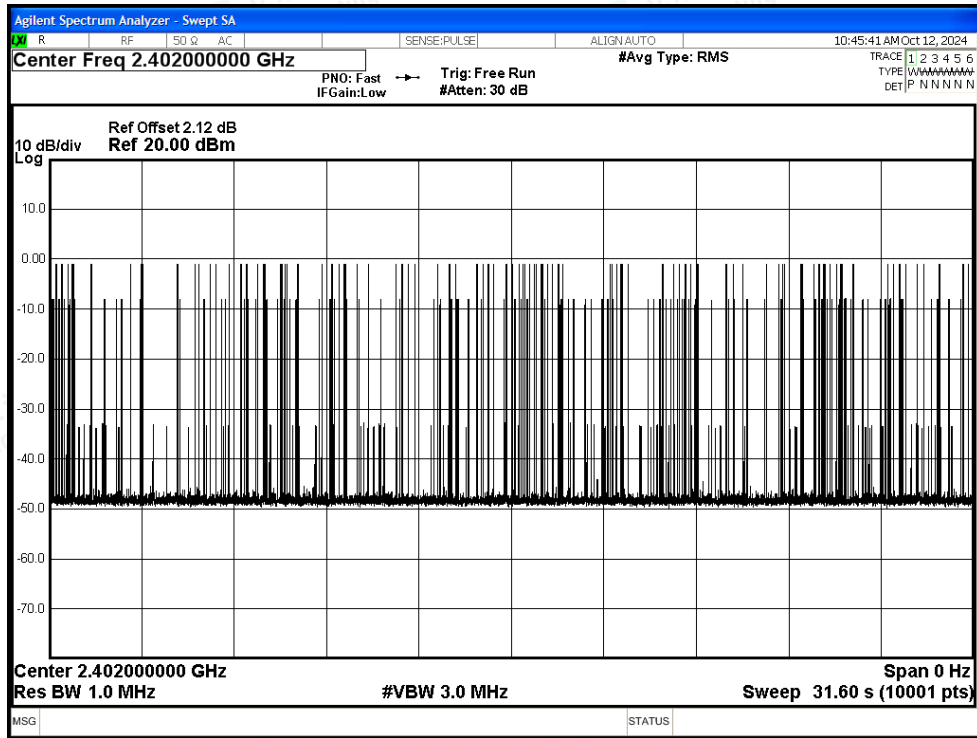


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

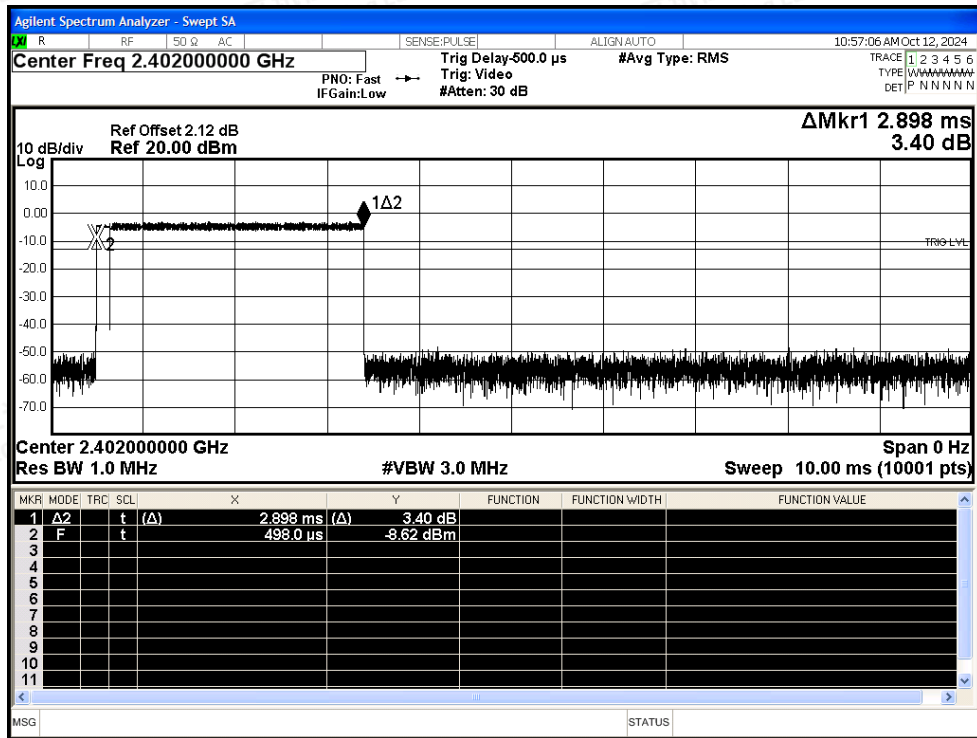


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

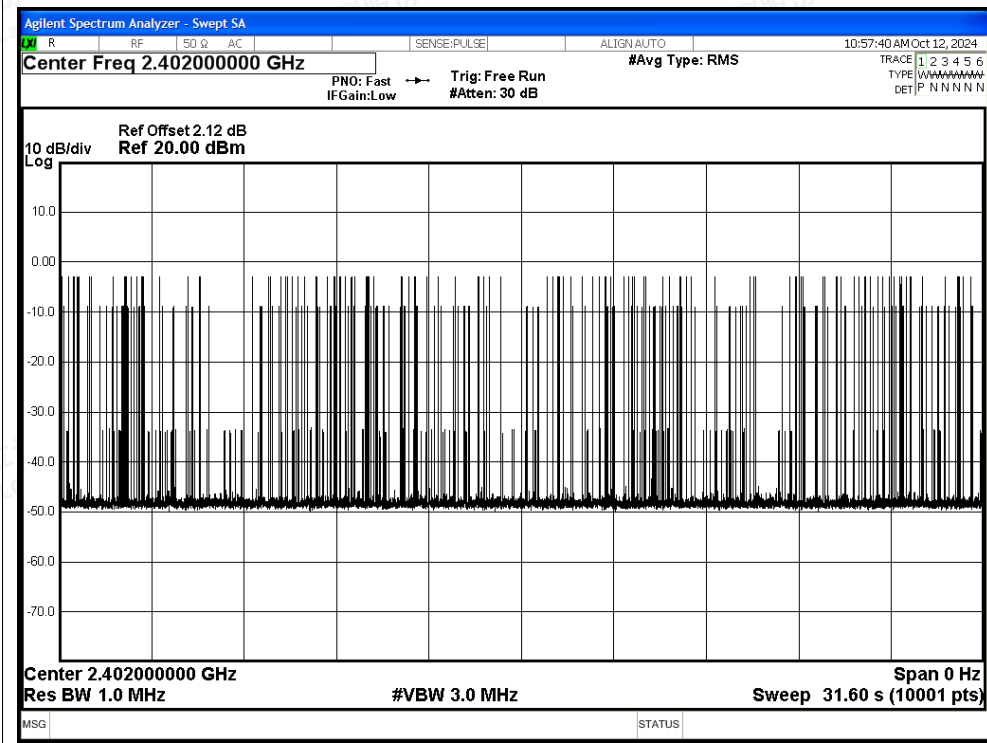




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

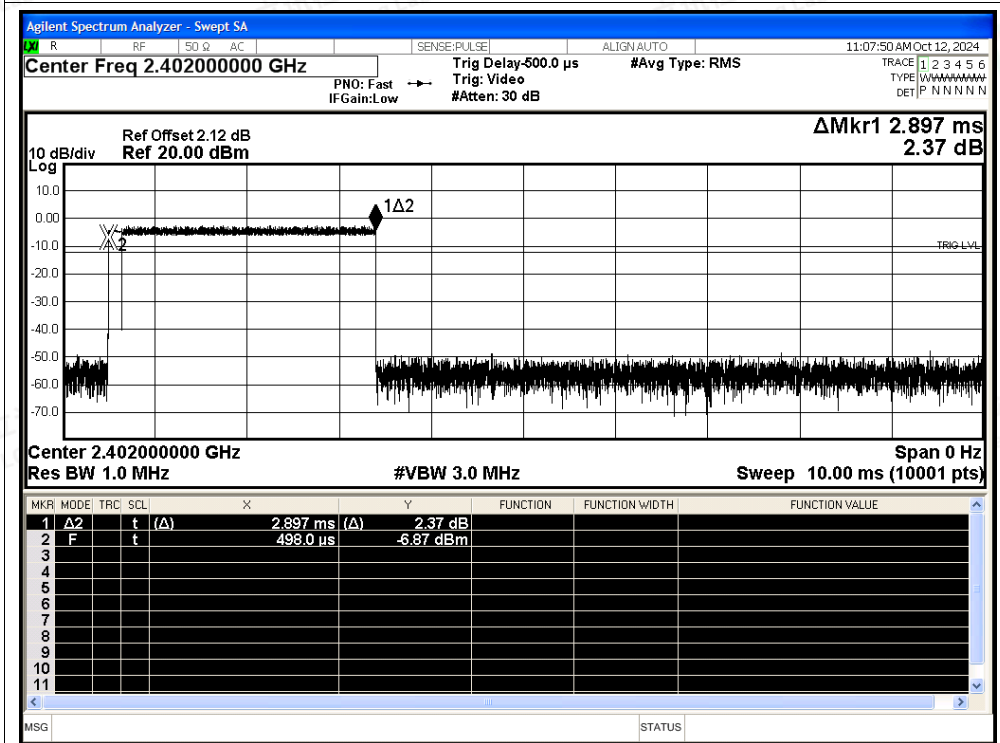


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

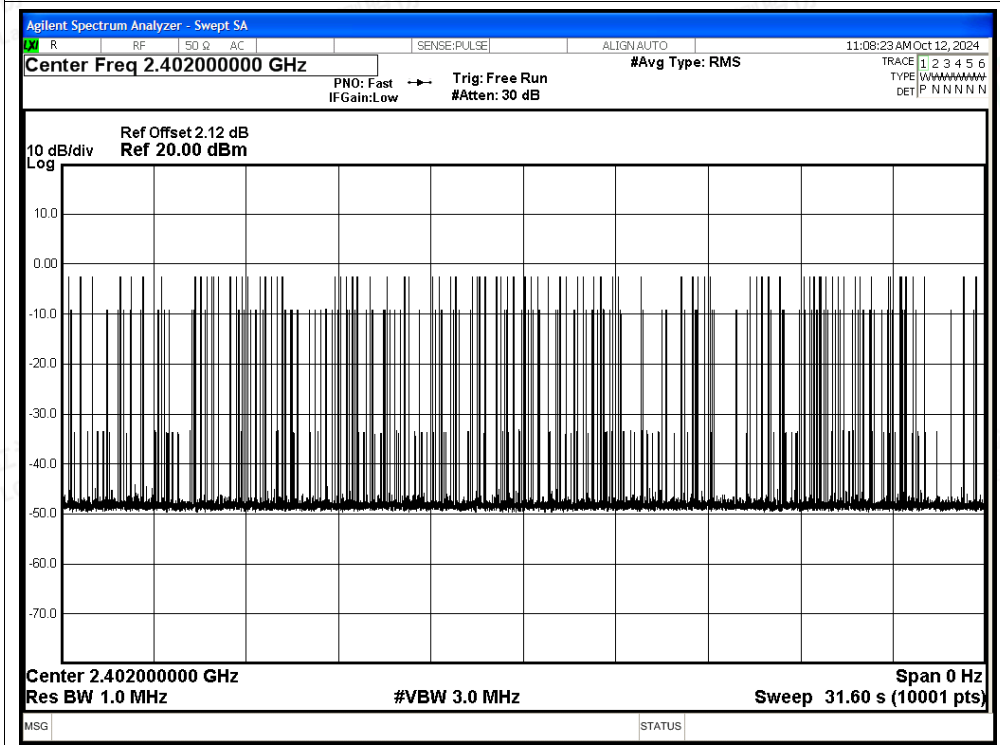




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

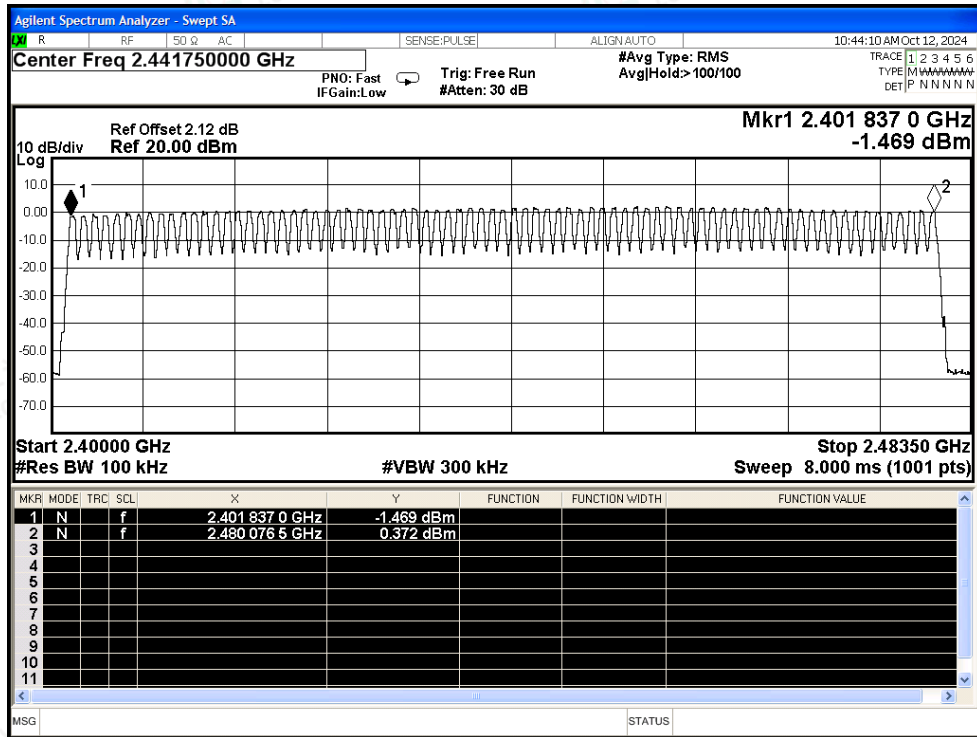


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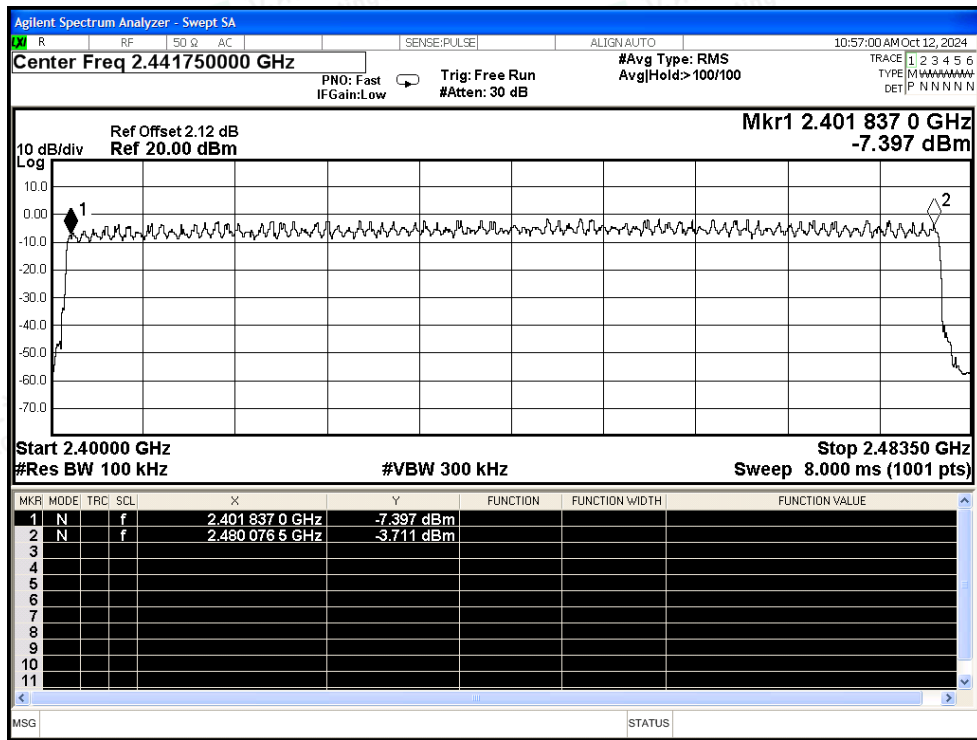


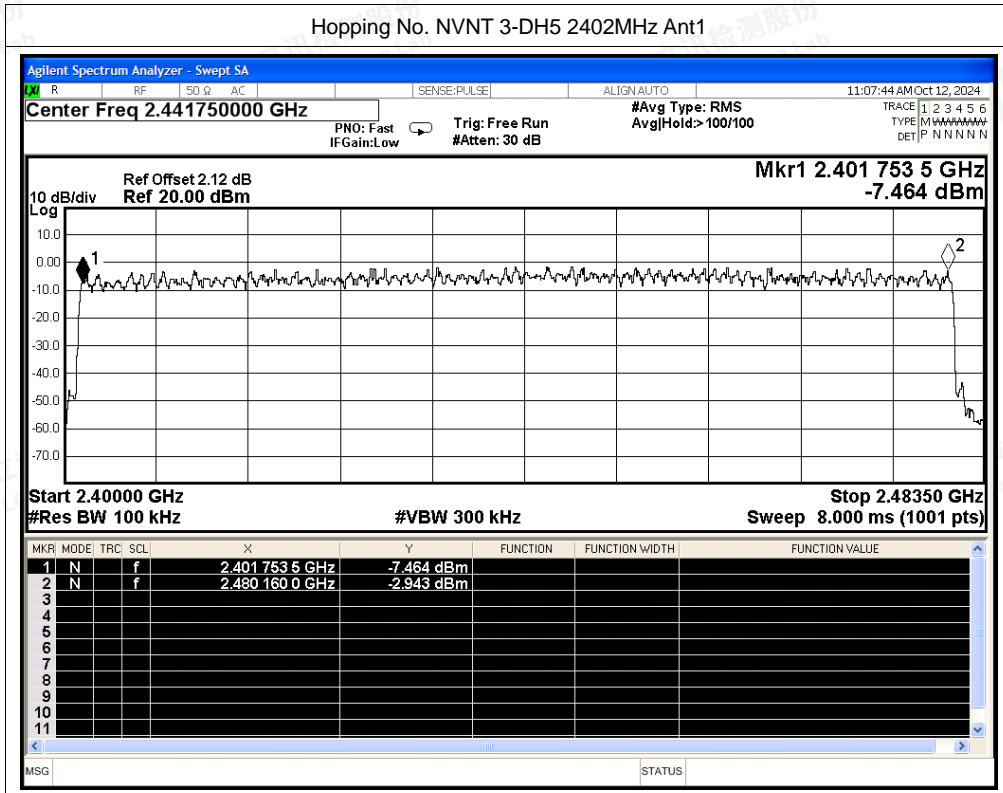
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.62	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.46	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.95	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.29	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.63	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.65	-20	Pass

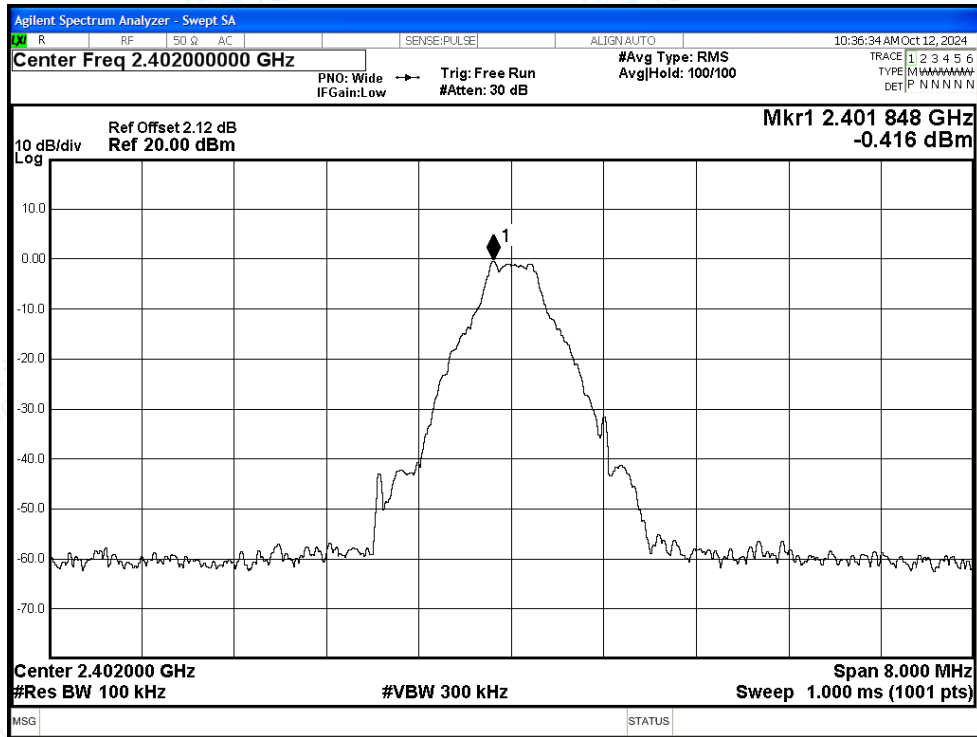


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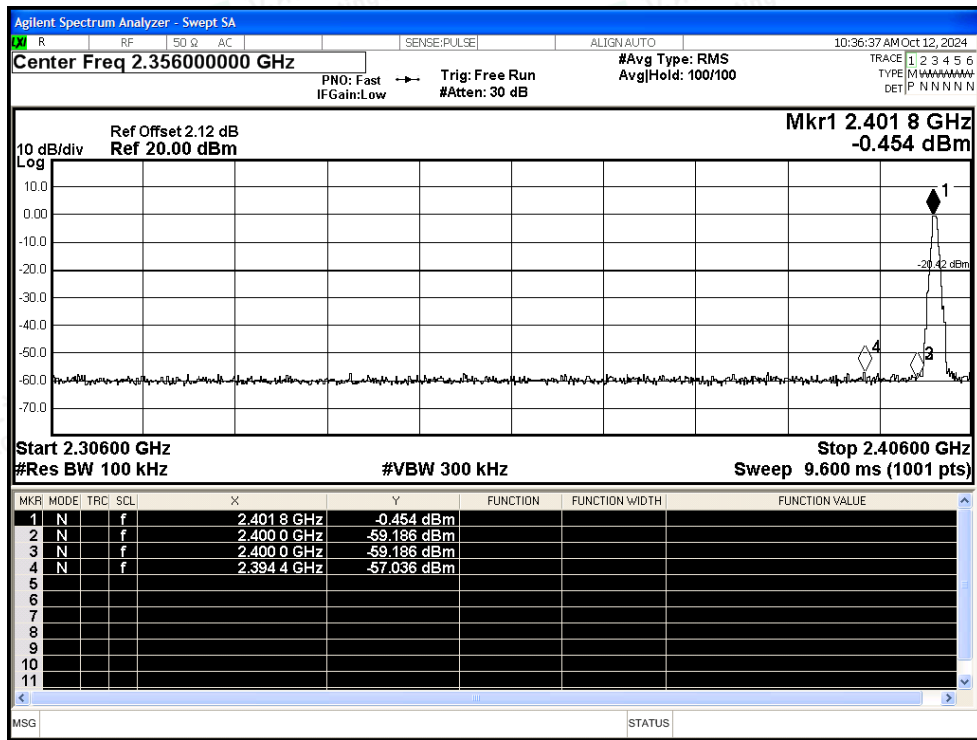


Test Graphs

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

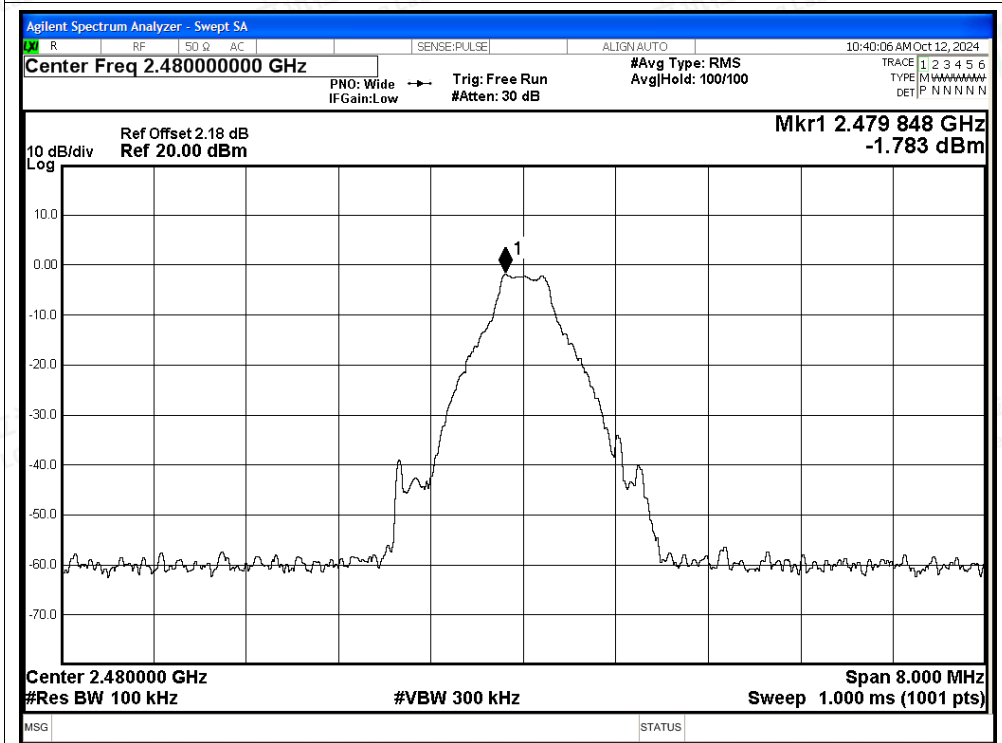


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

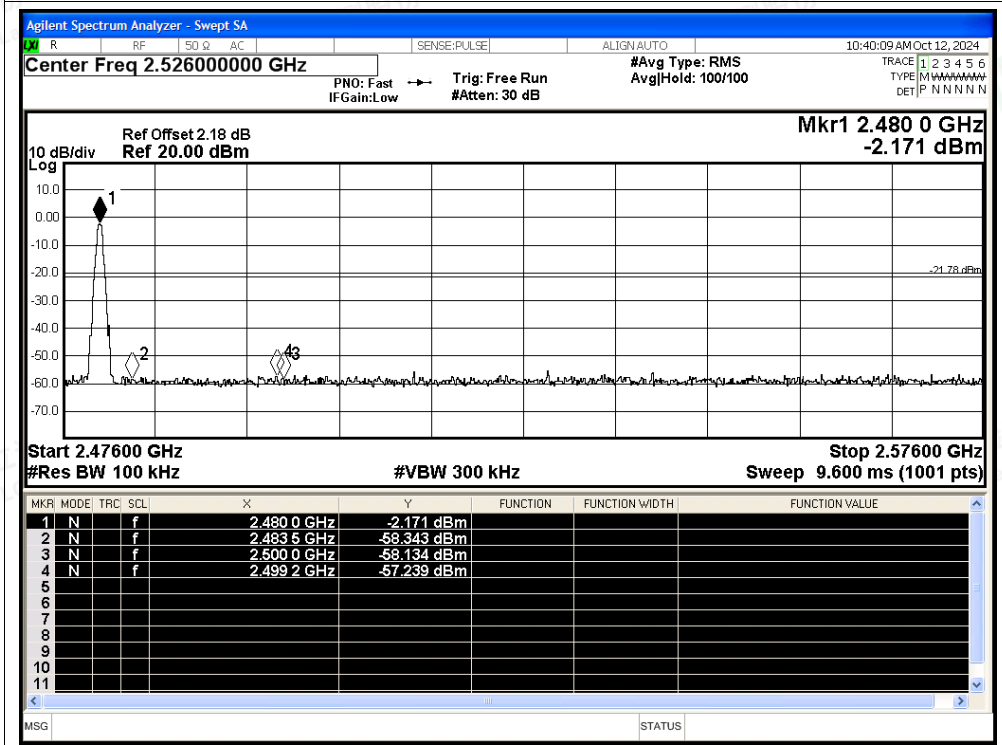




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

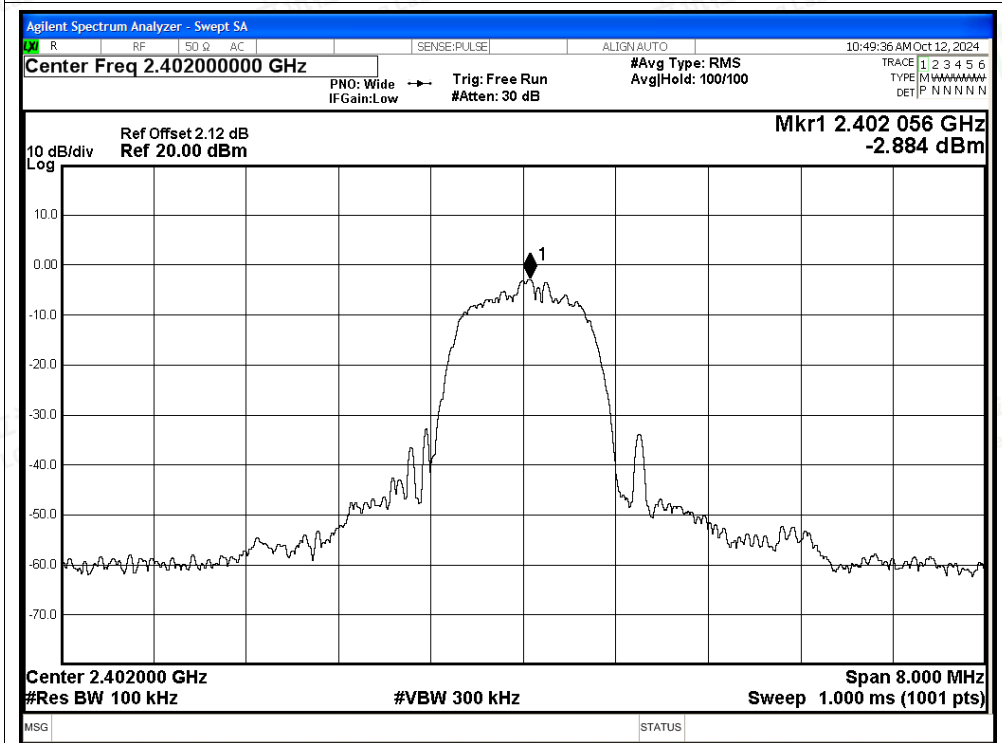


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

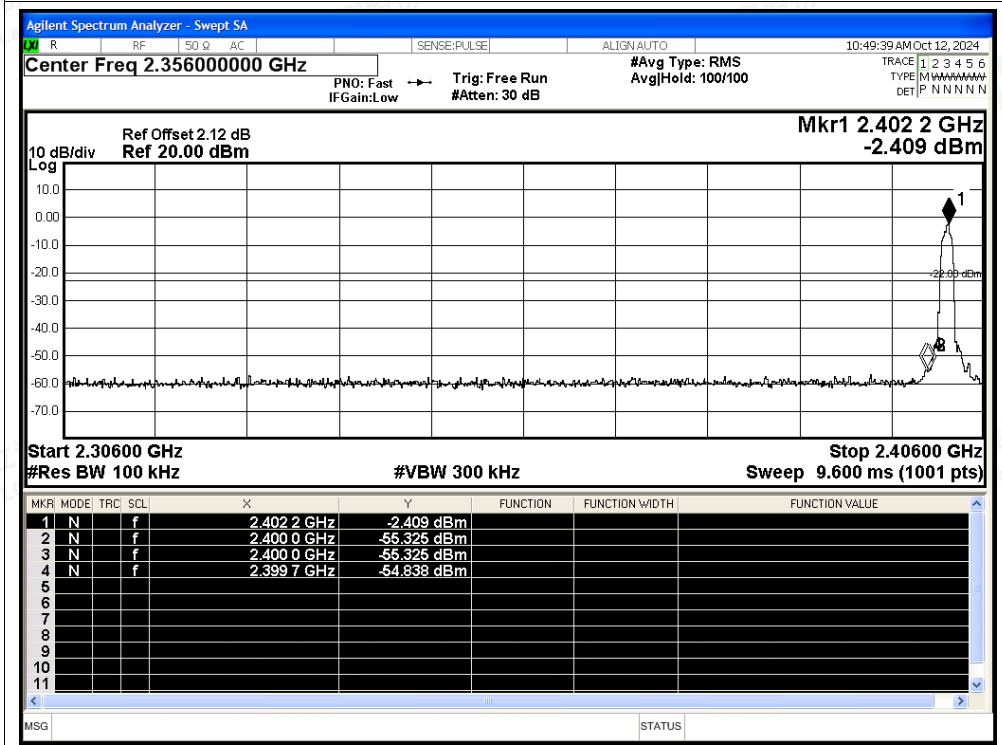




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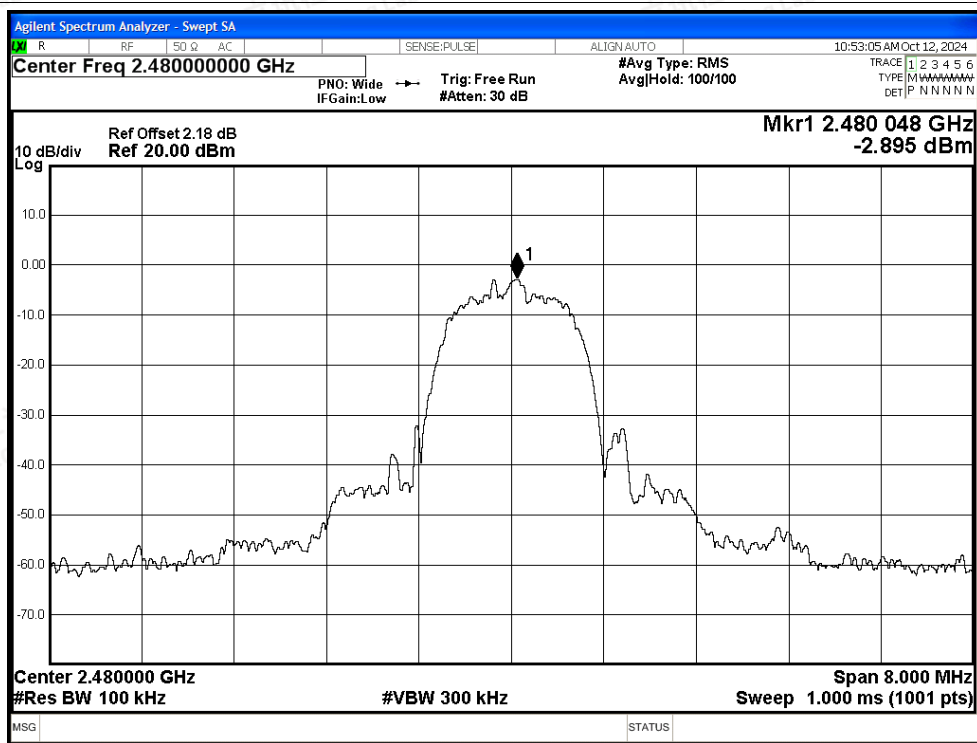


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

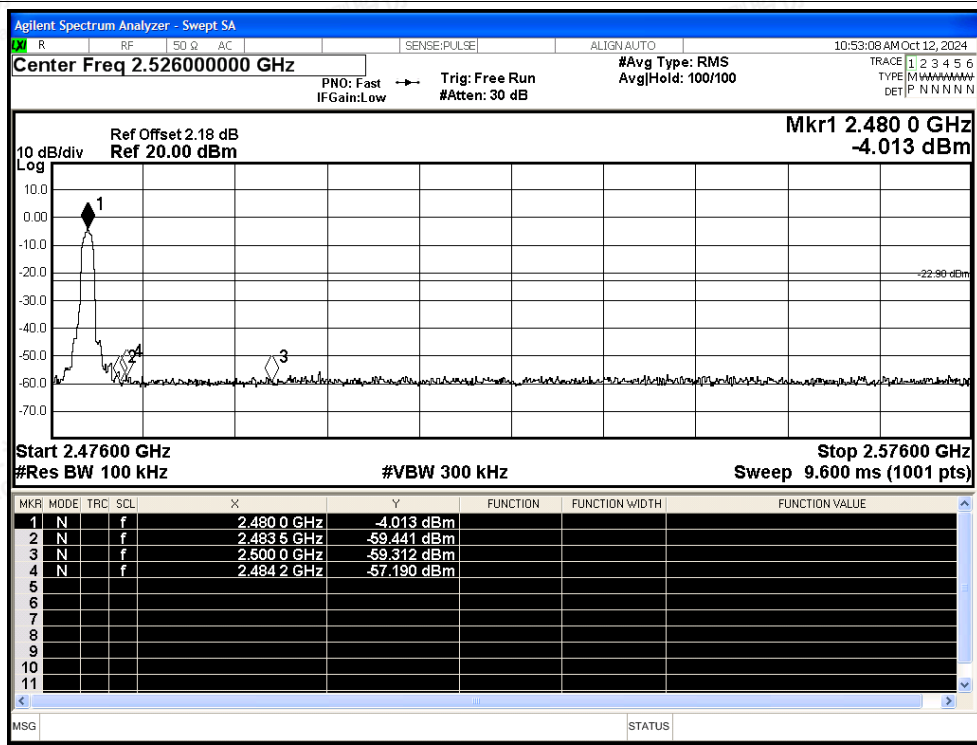




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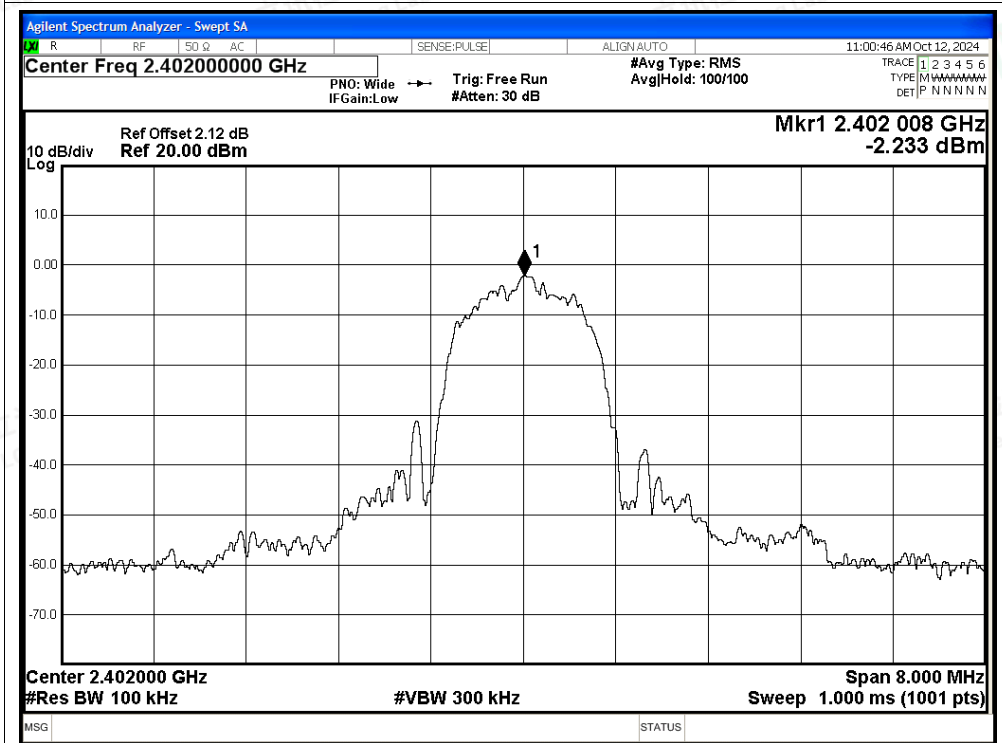


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

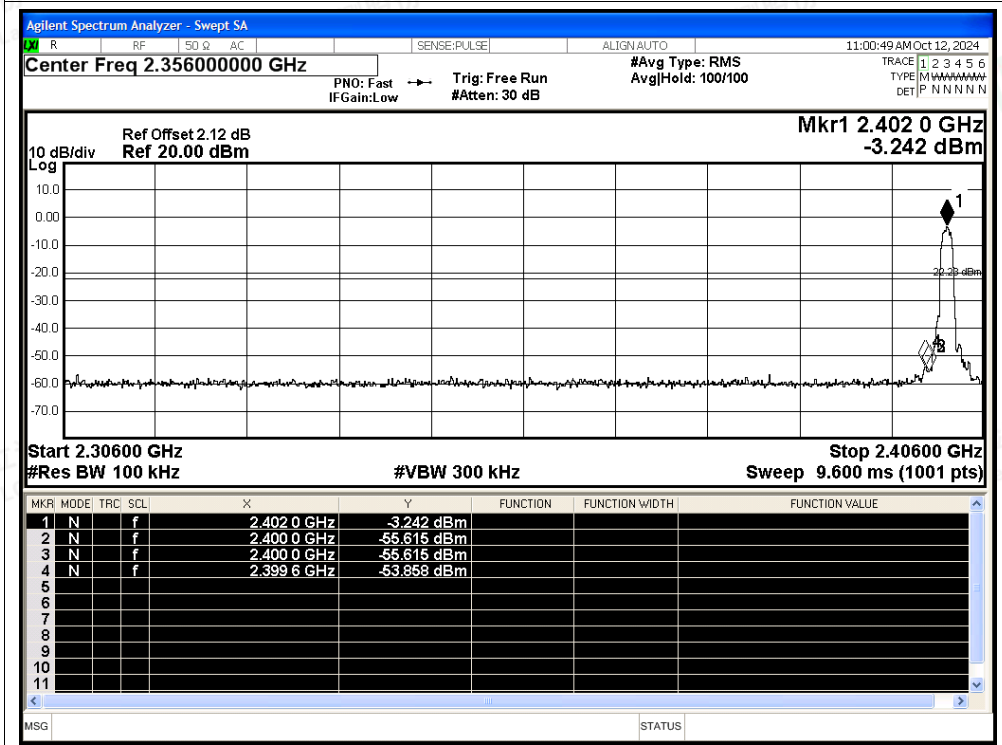




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

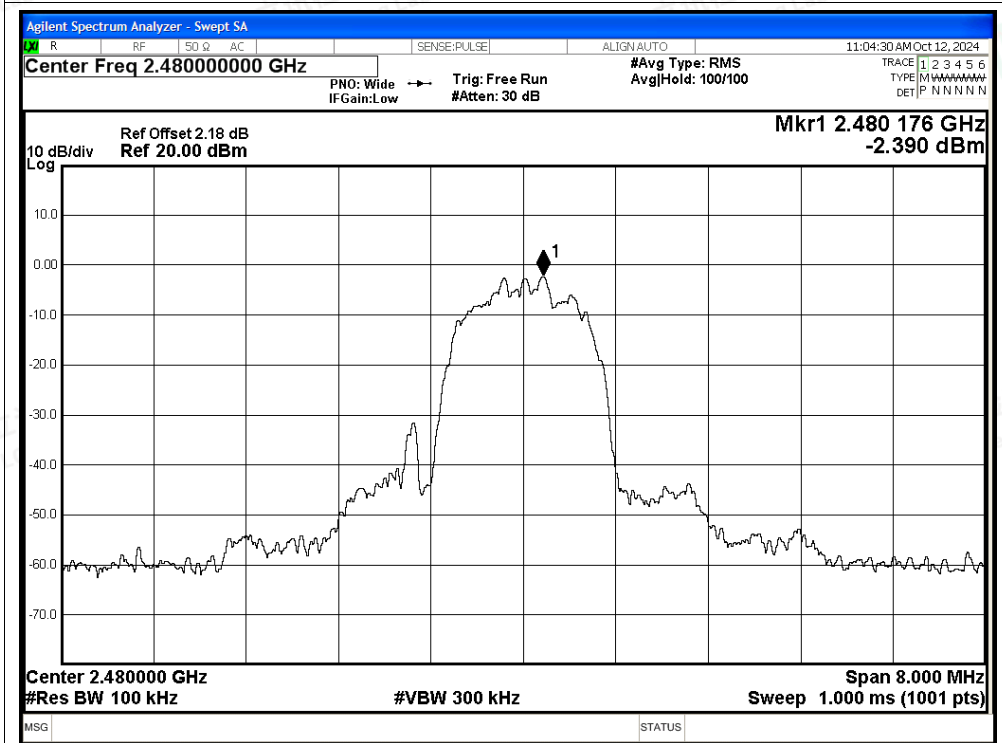


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

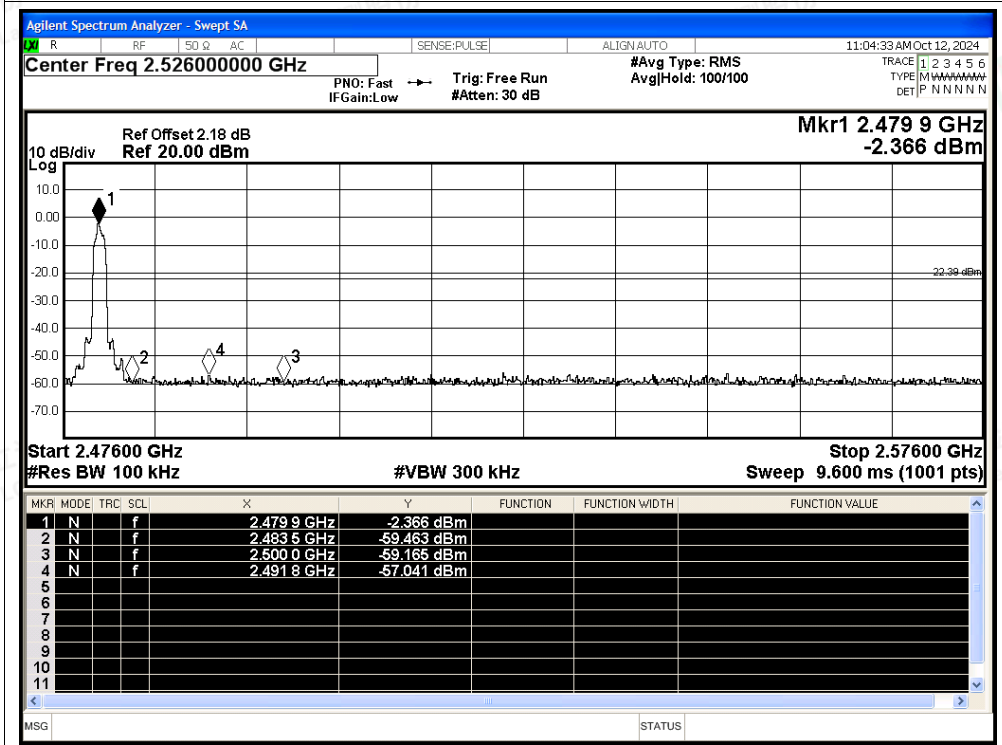




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.34	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.26	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.96	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.46	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.94	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.51	-20	Pass

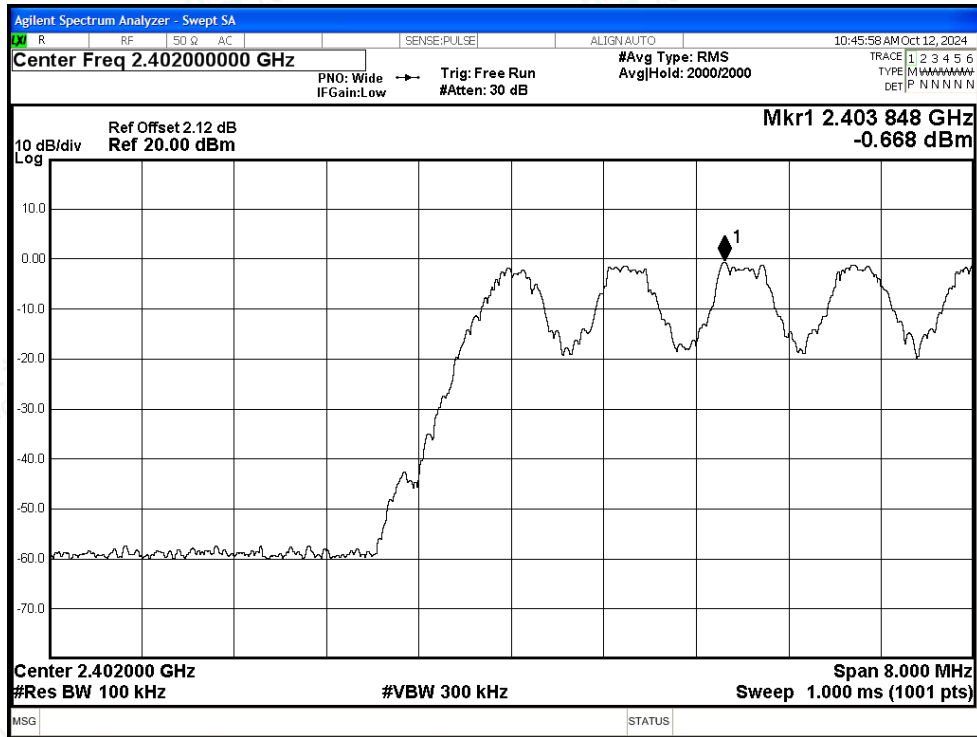


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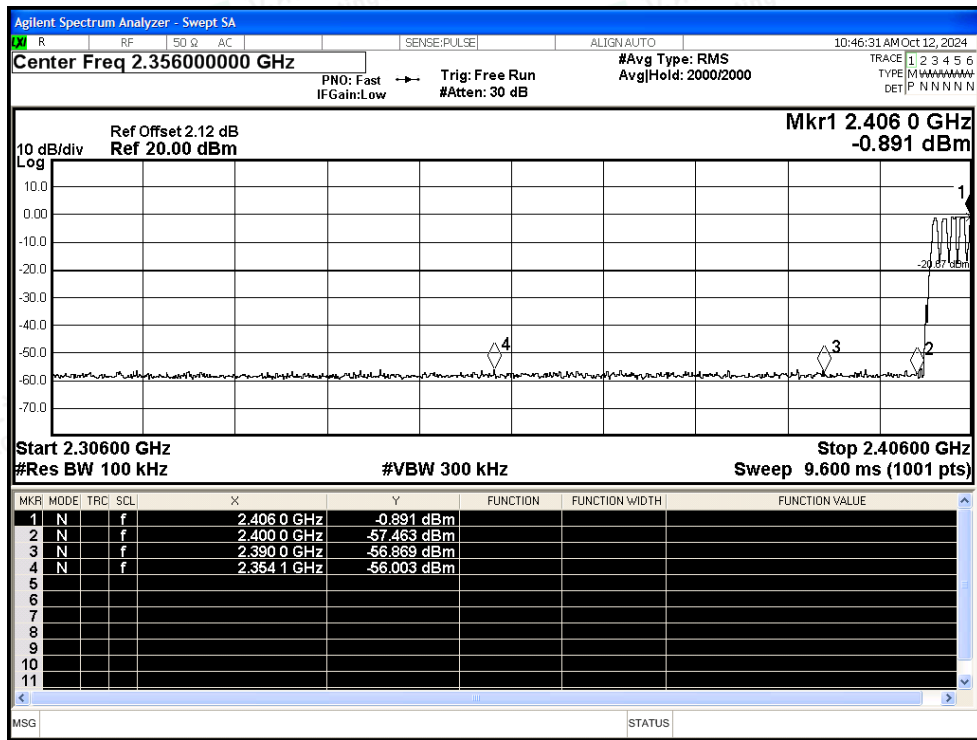


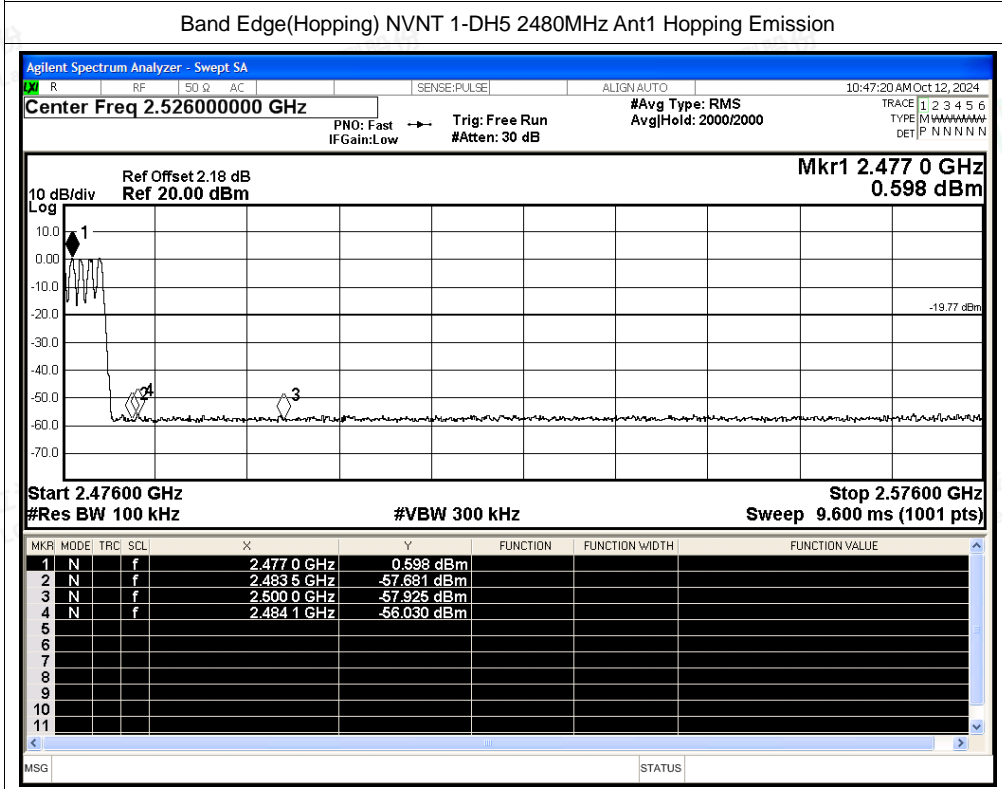
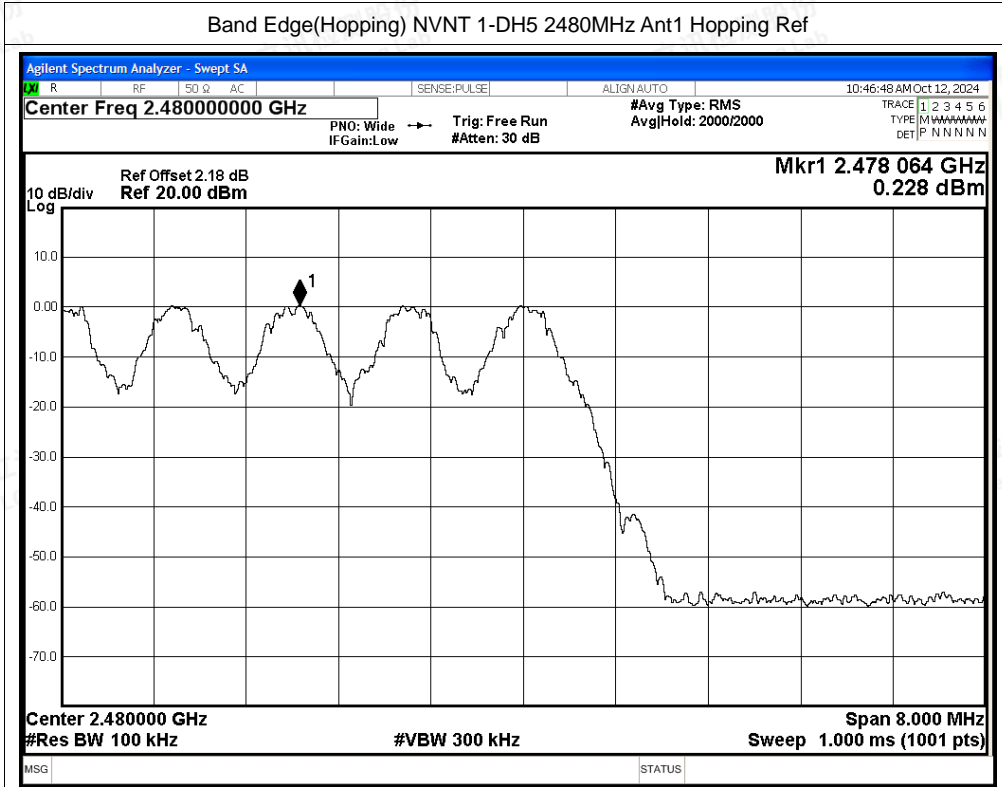
Test Graphs

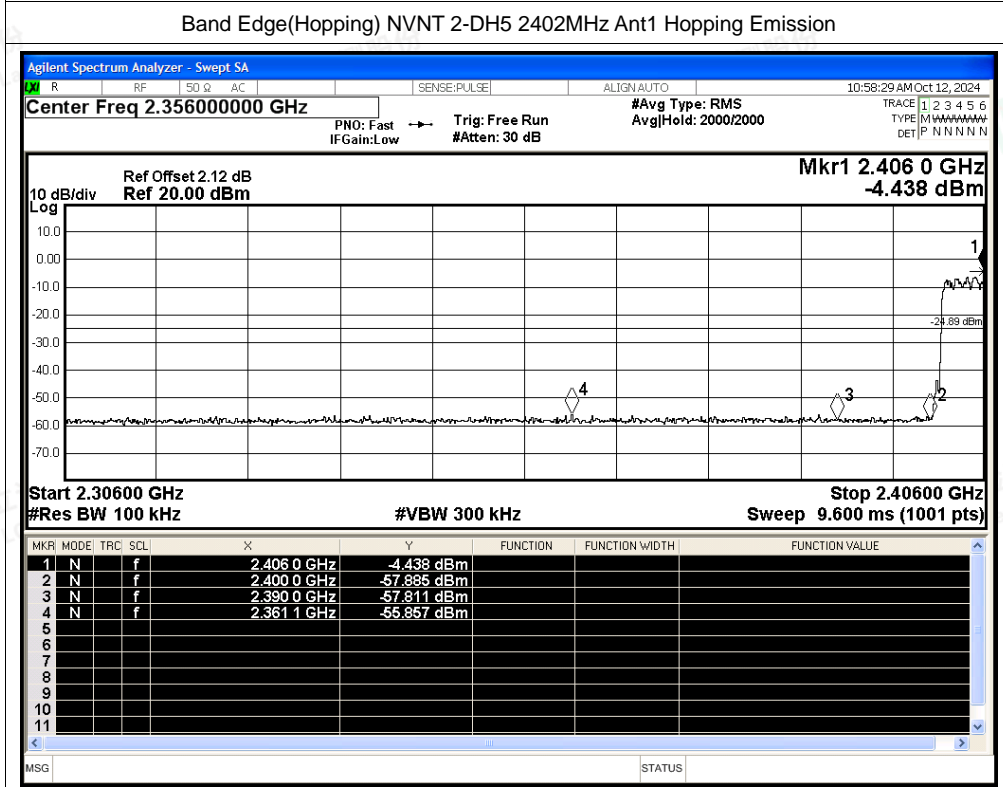
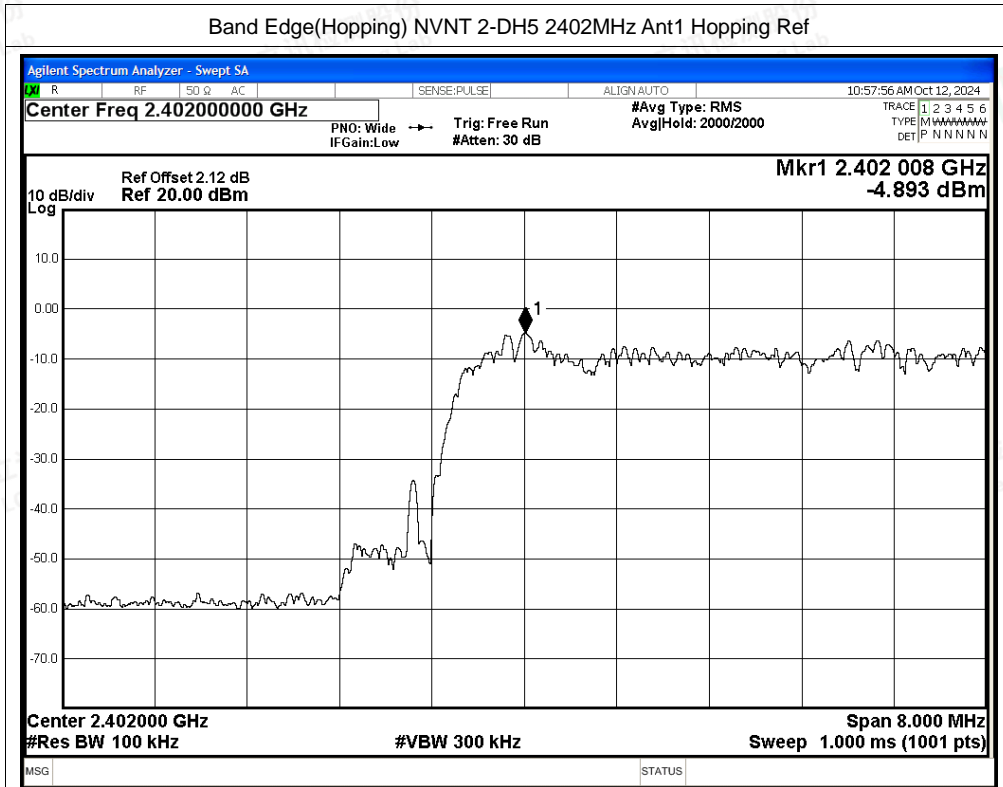
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

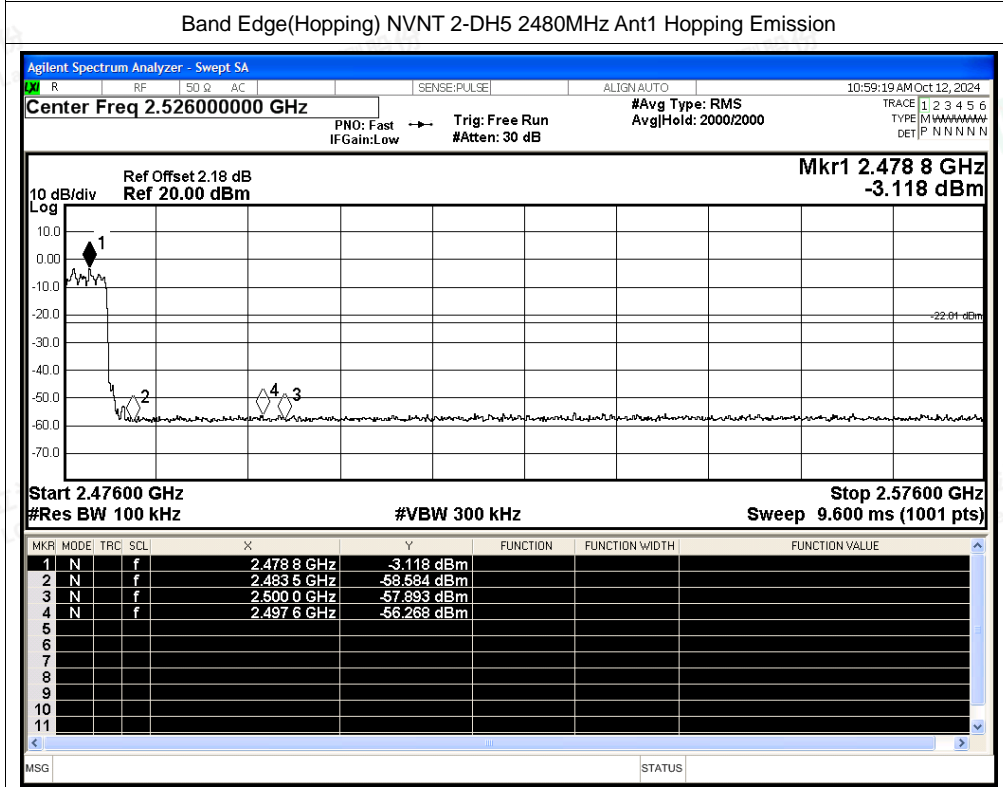
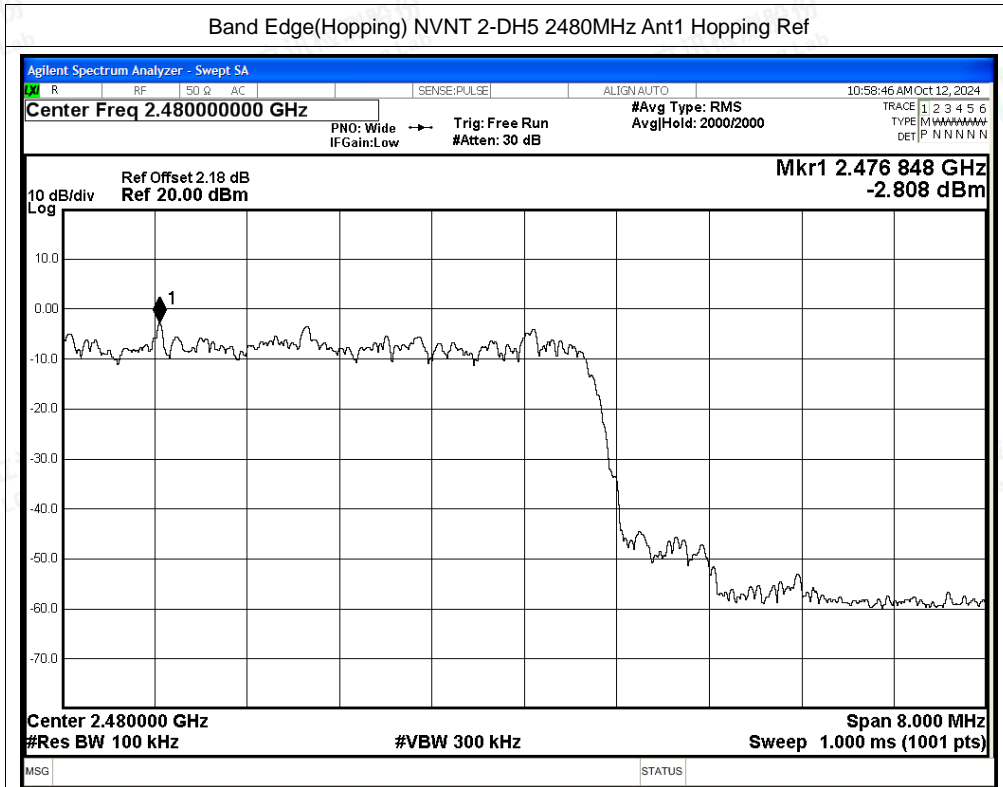


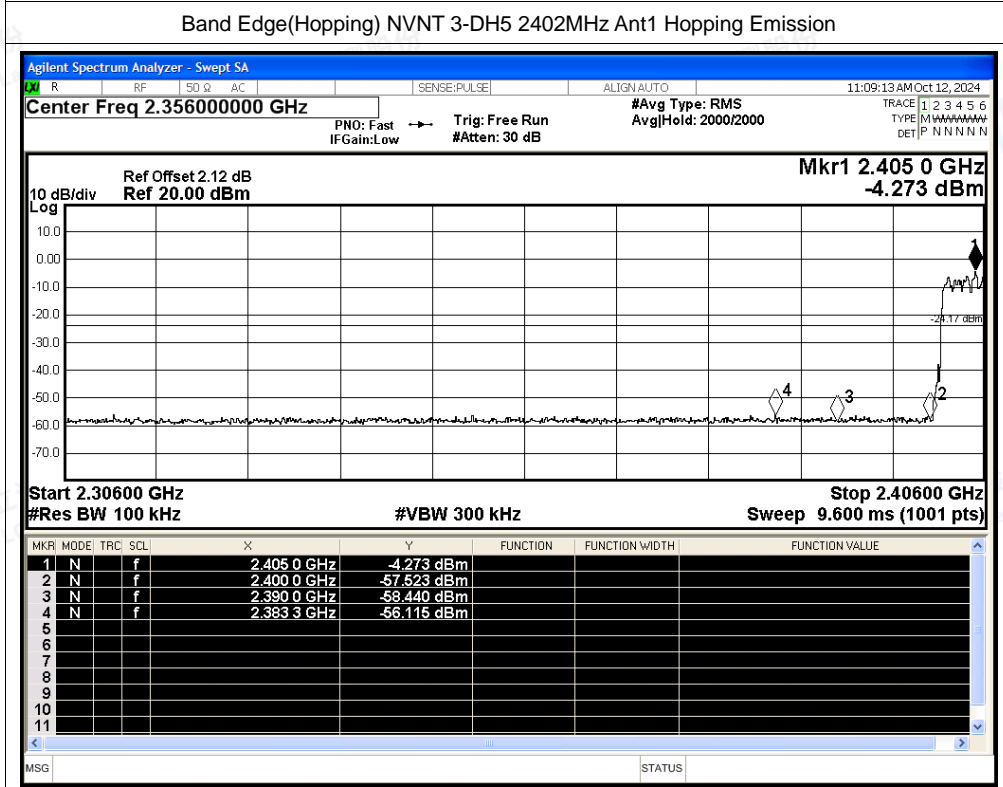
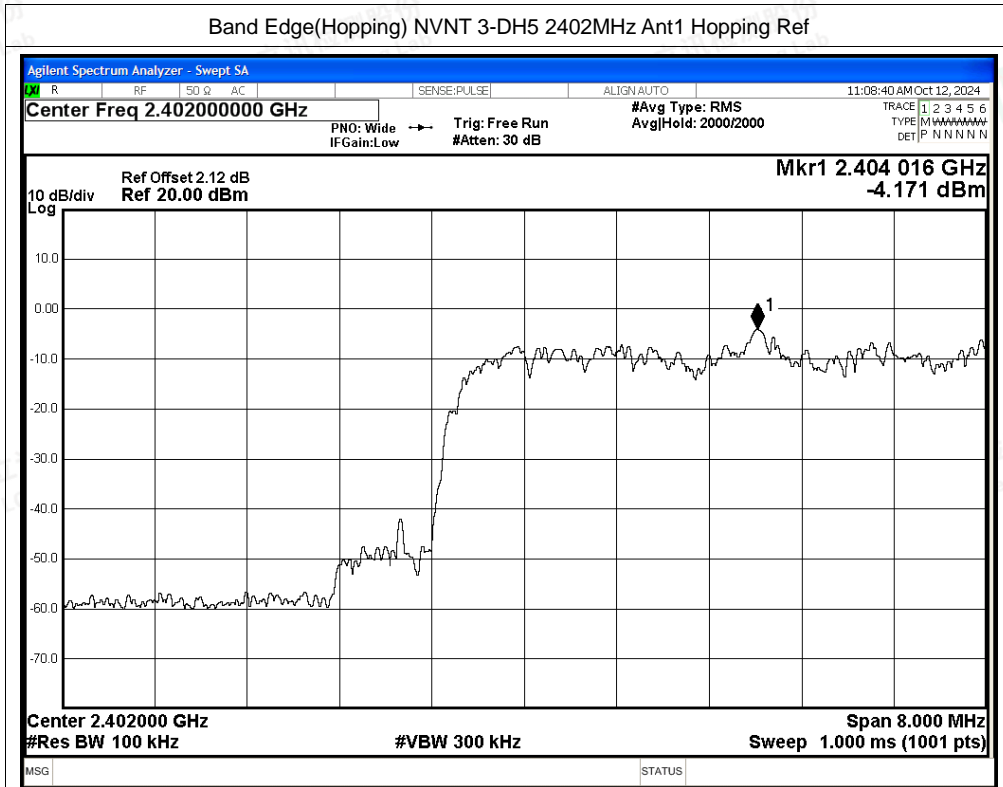
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

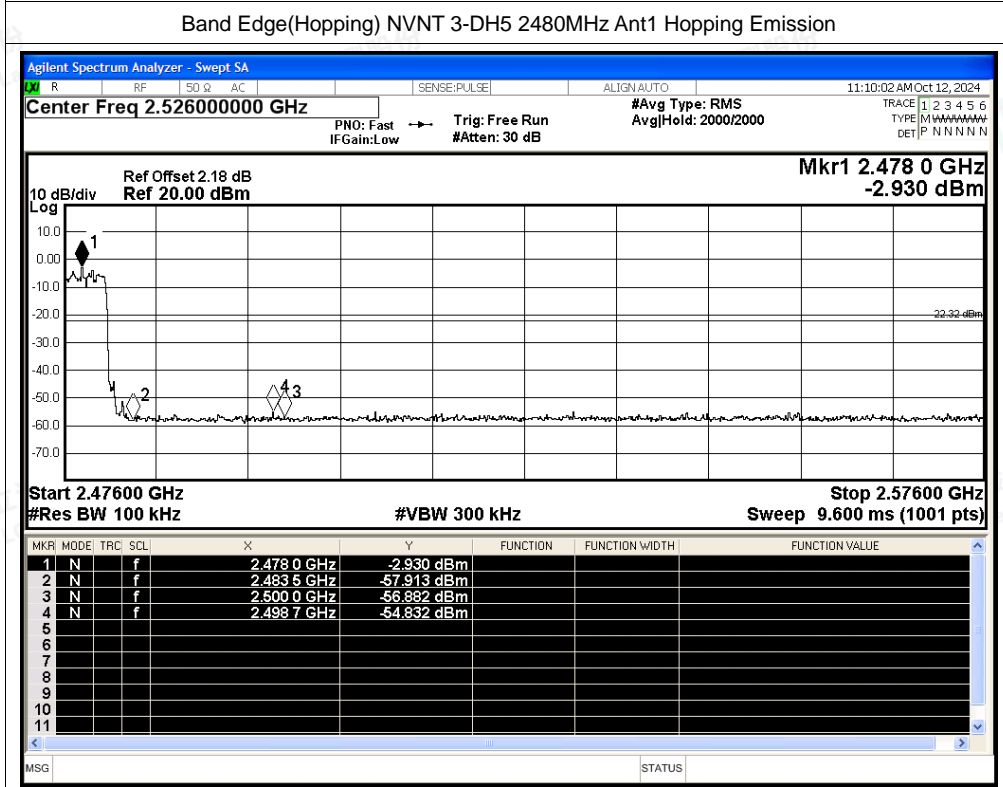
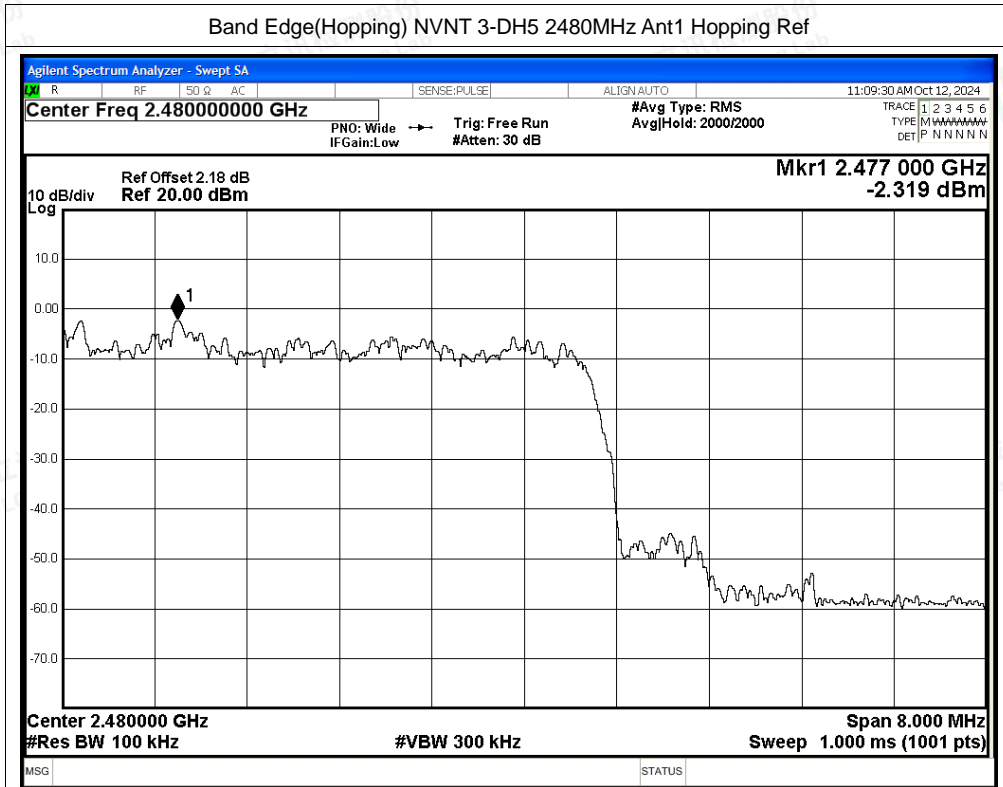














A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.48	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.03	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.13	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.39	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.94	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.28	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.46	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.65	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.81	-20	Pass

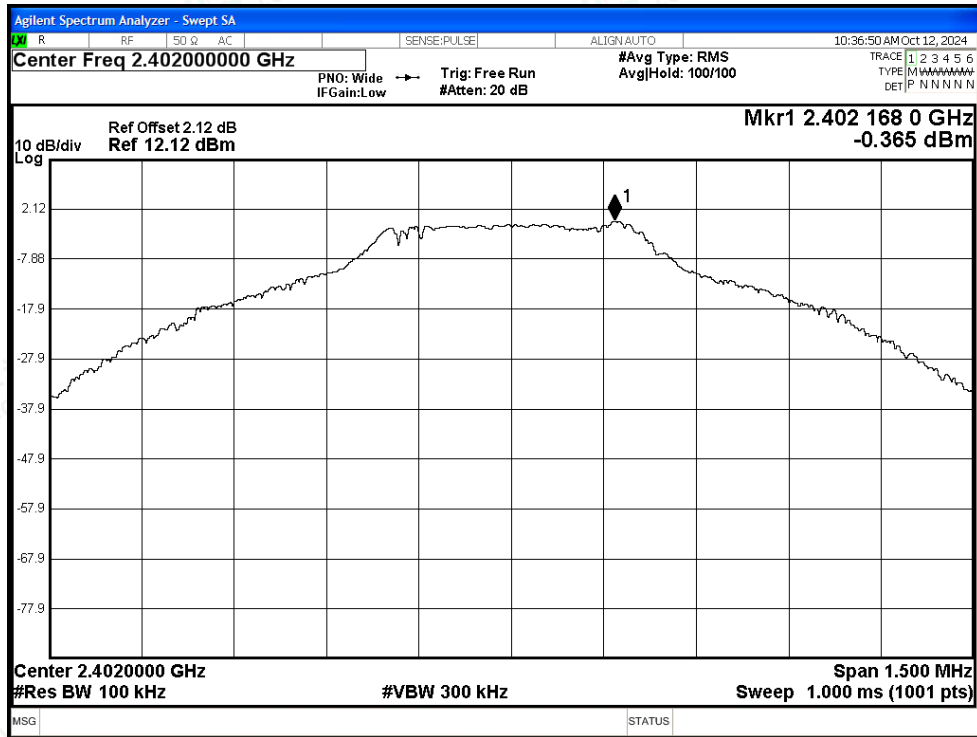


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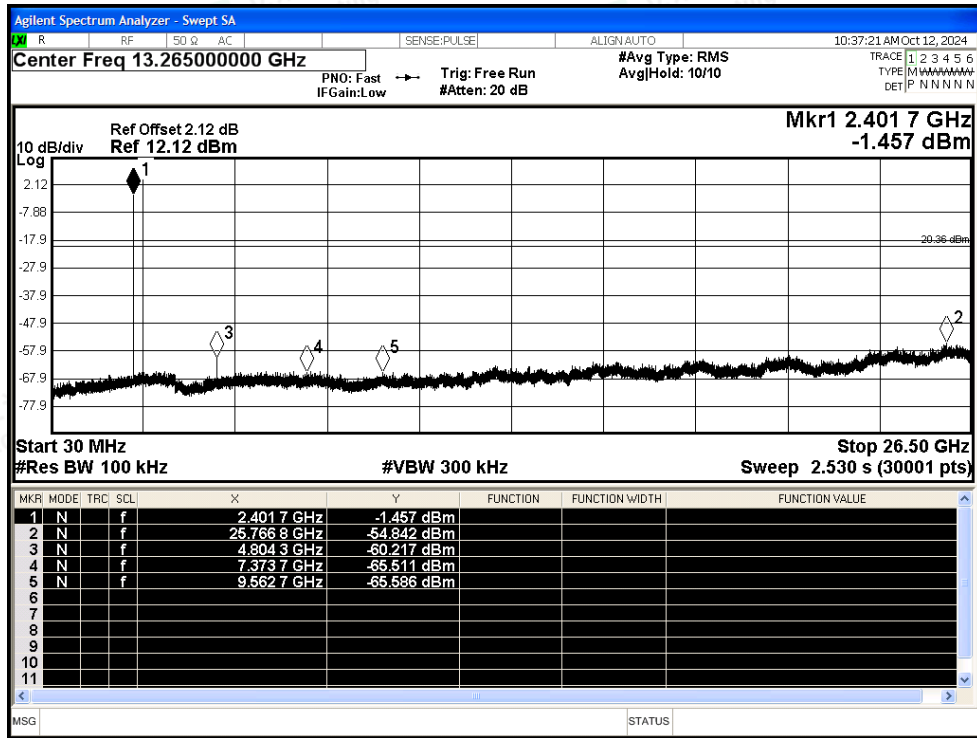


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

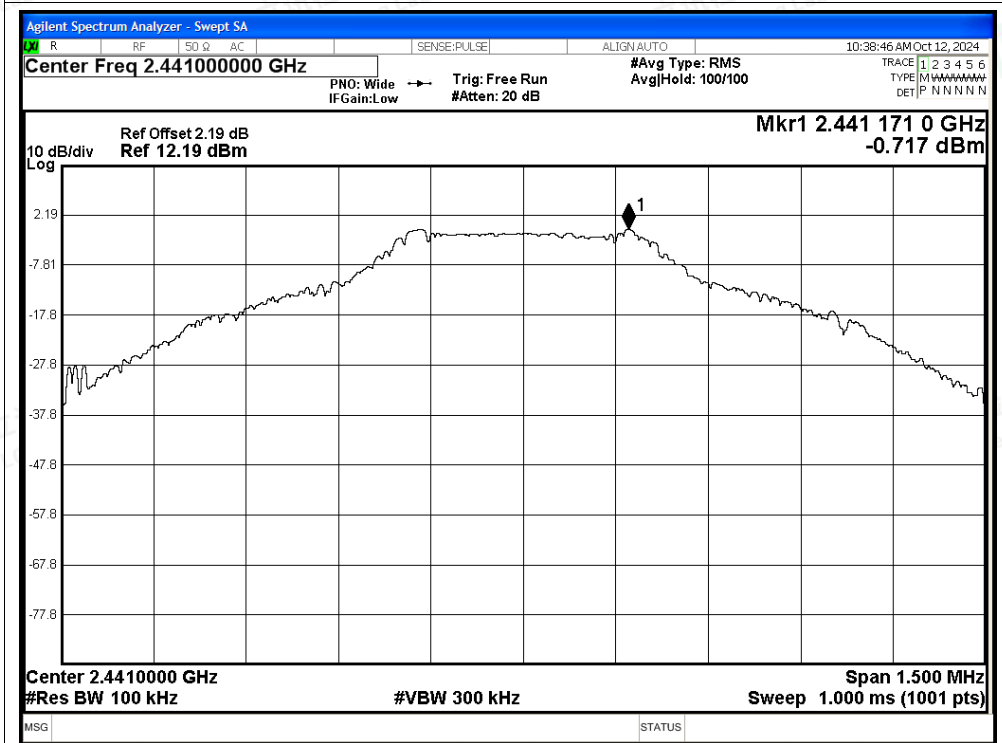


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

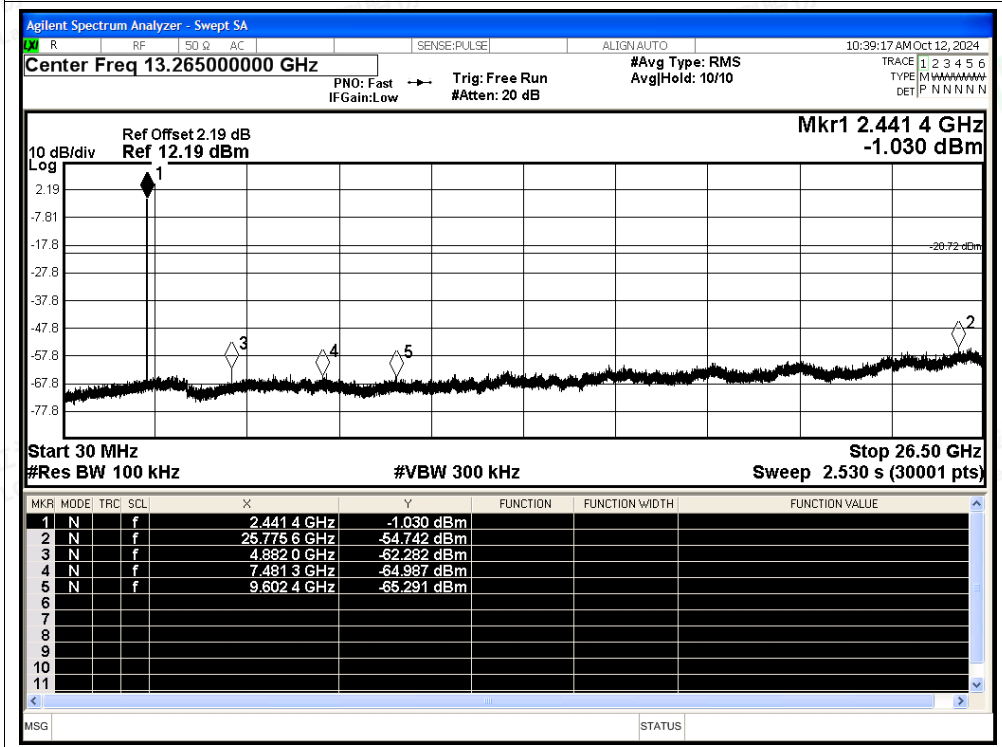




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

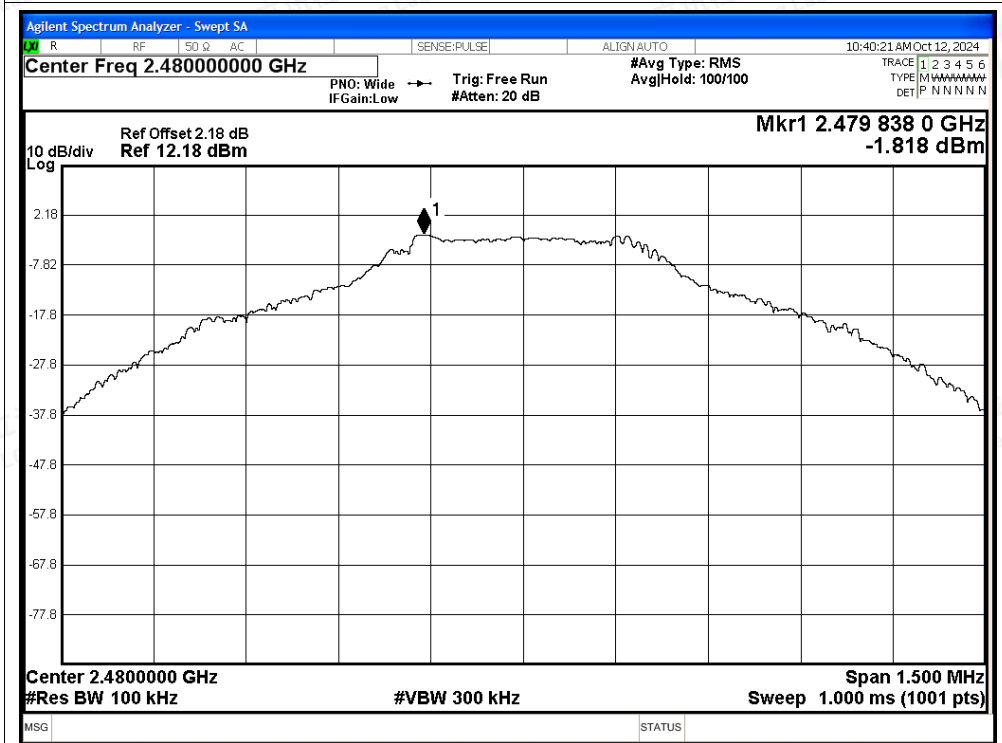


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

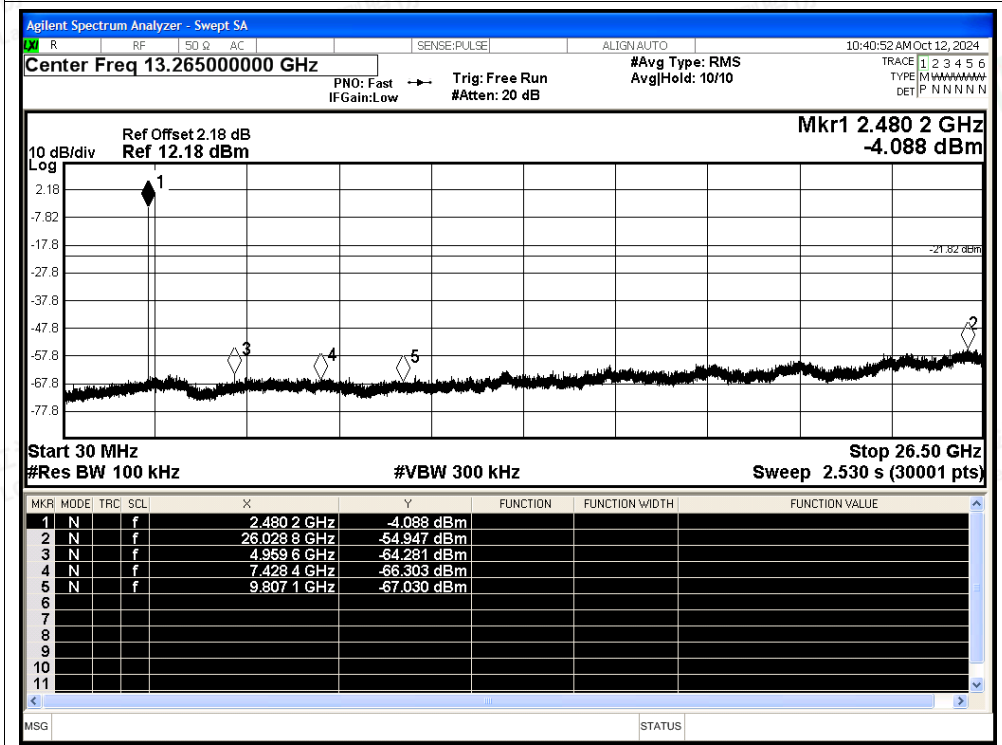




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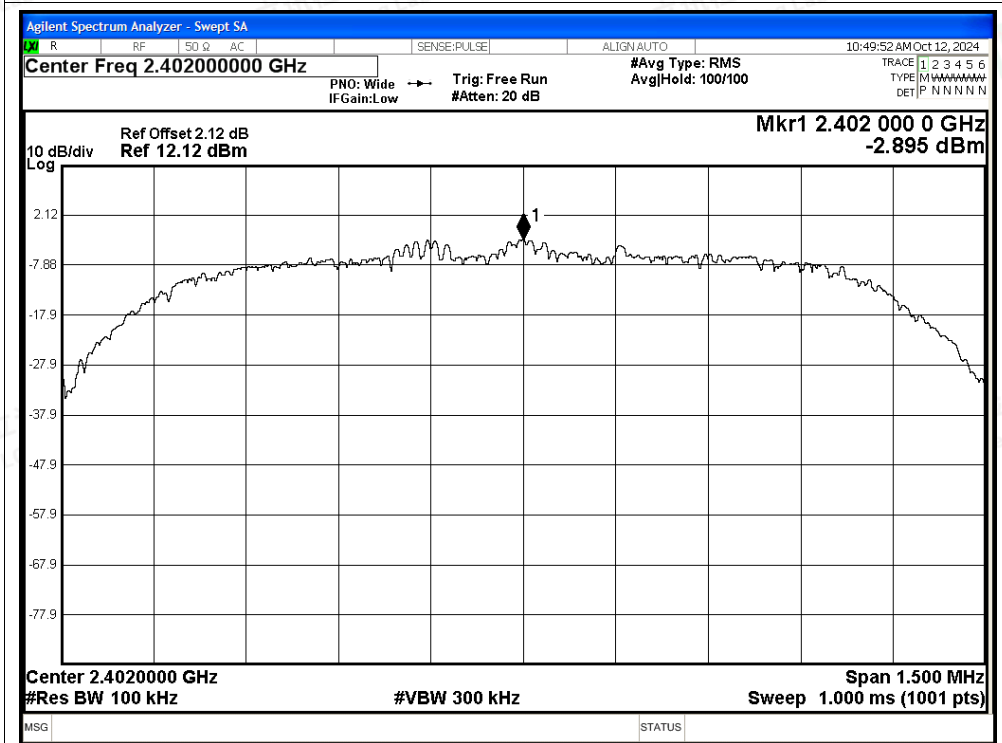


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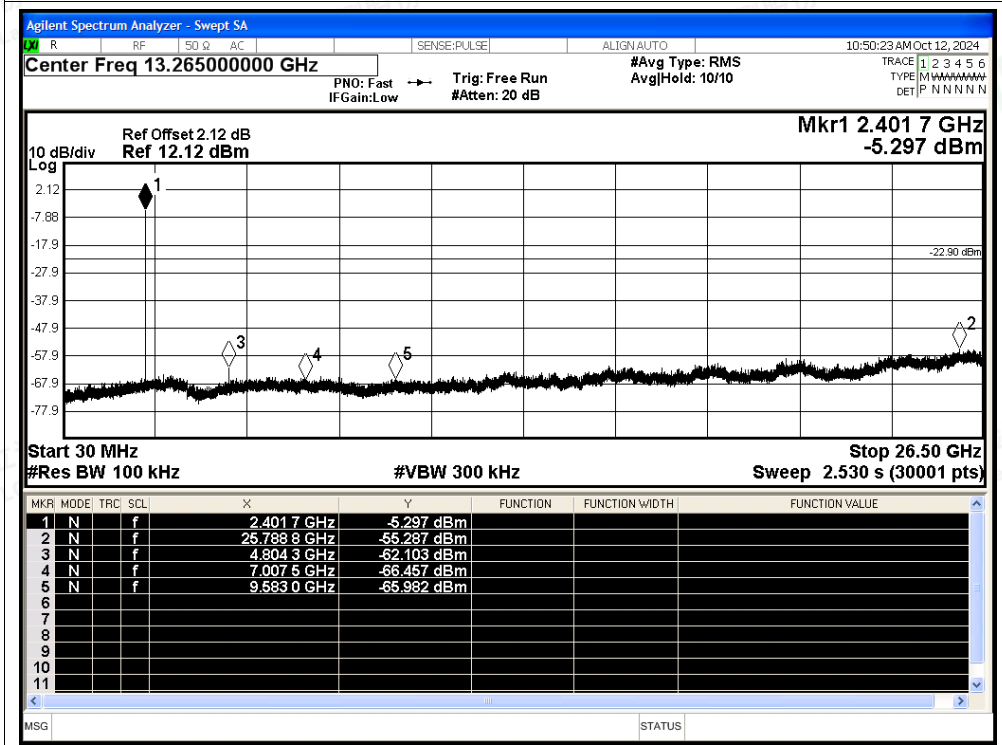




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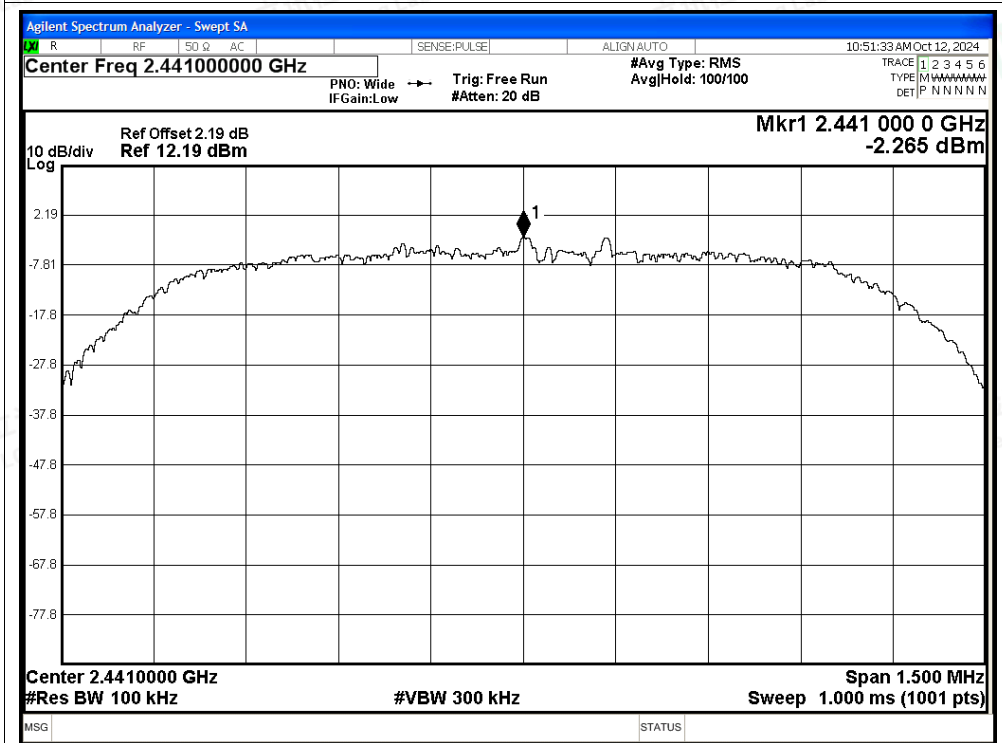


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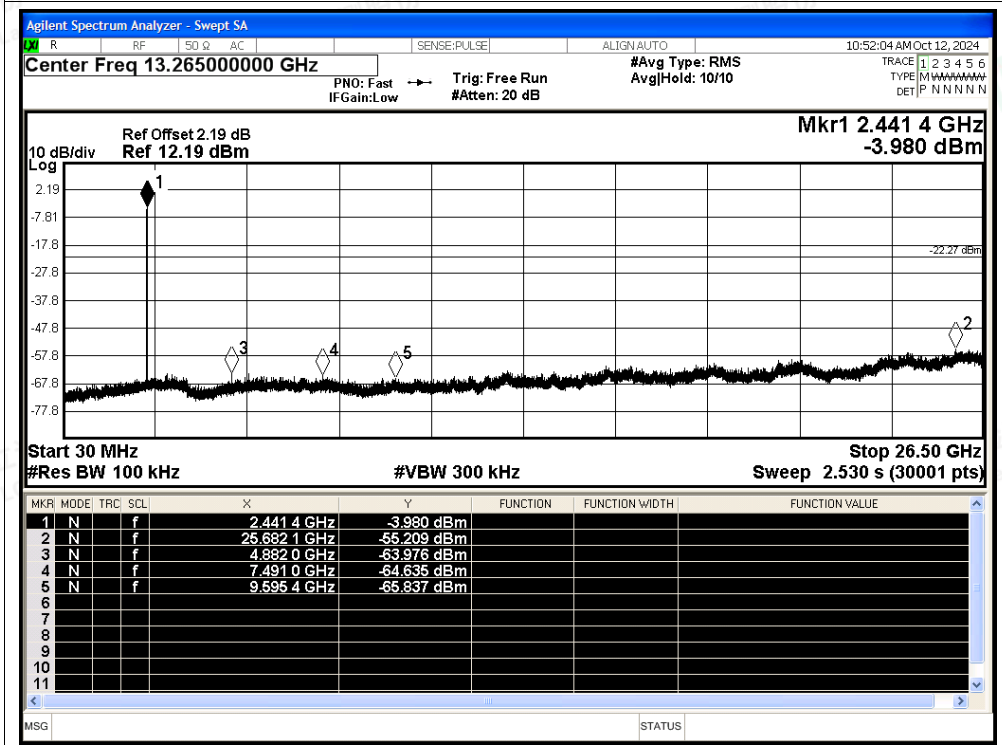




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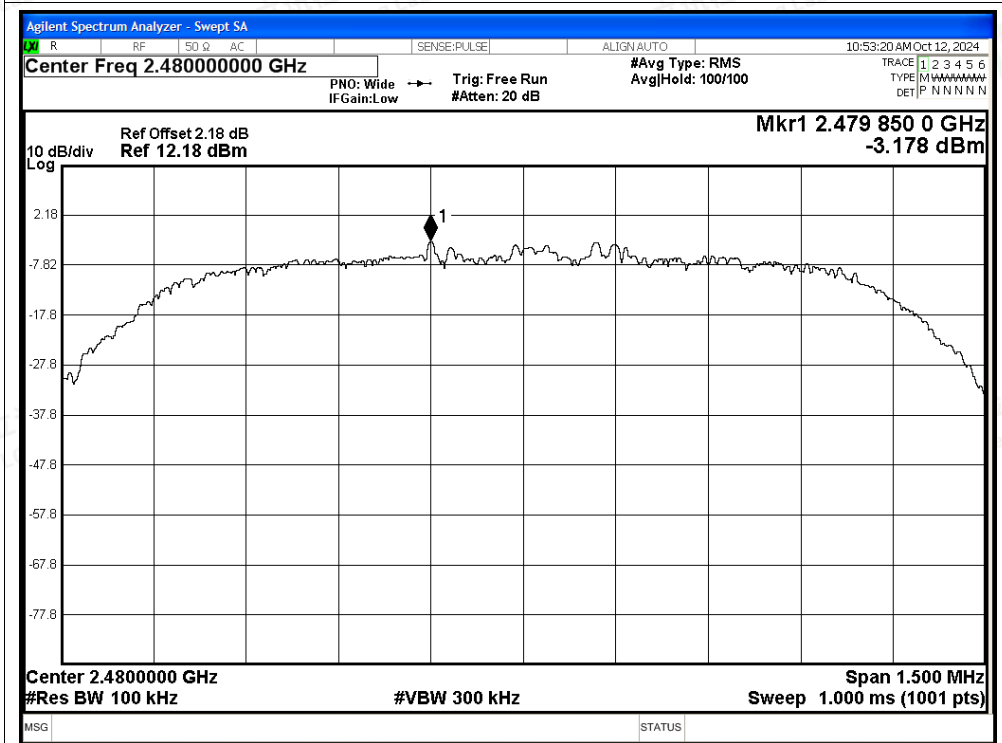


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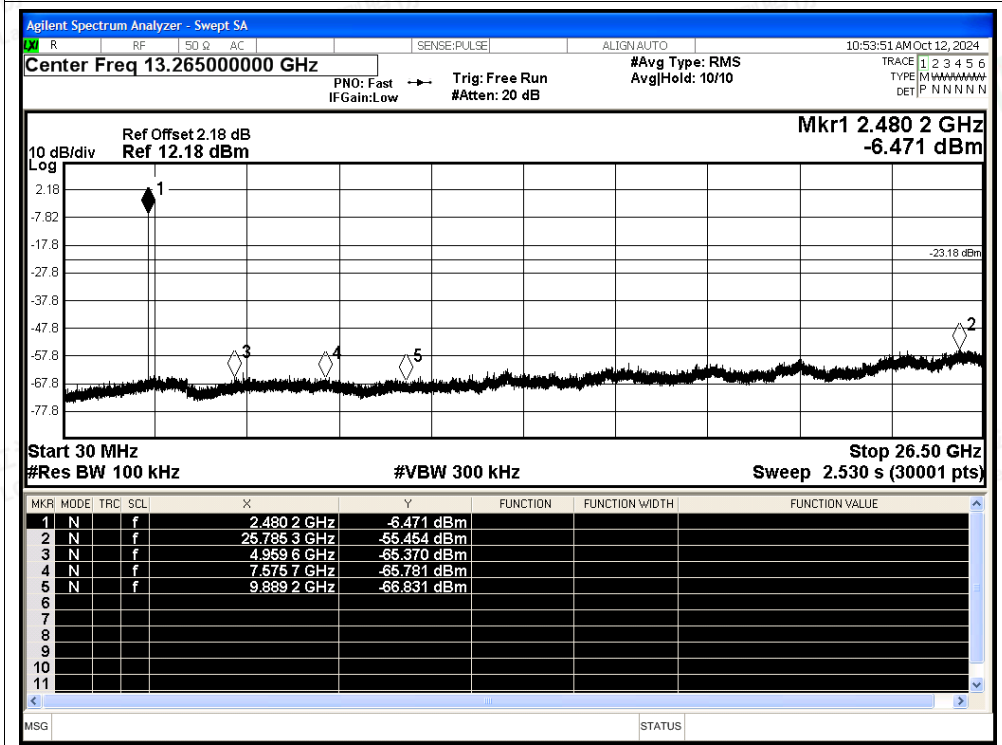




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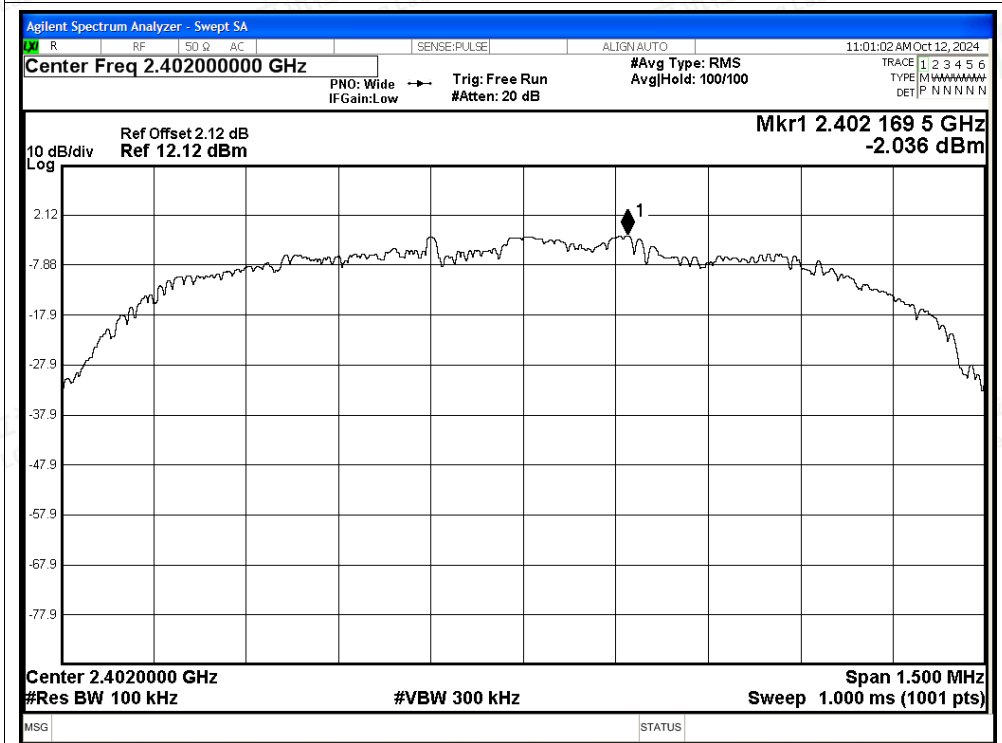


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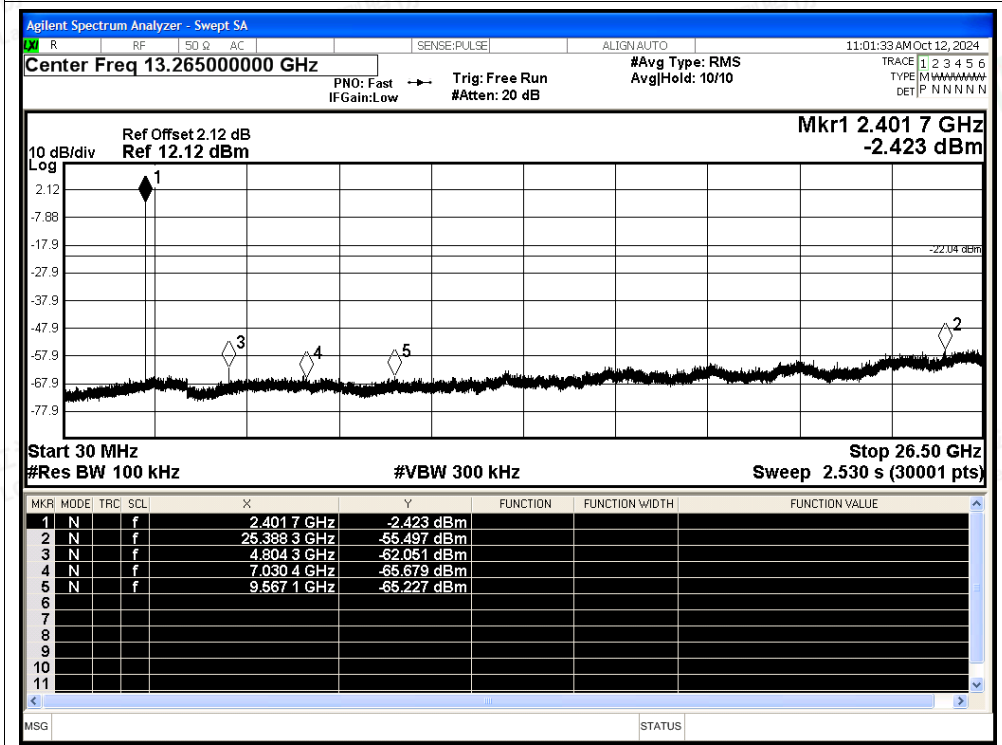




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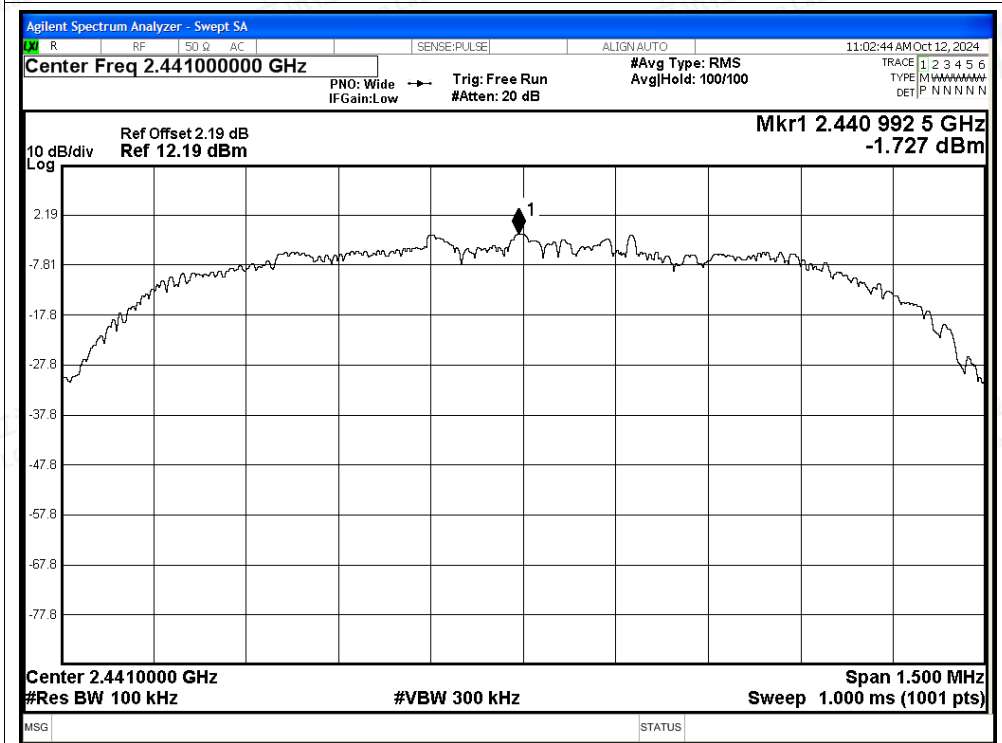


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

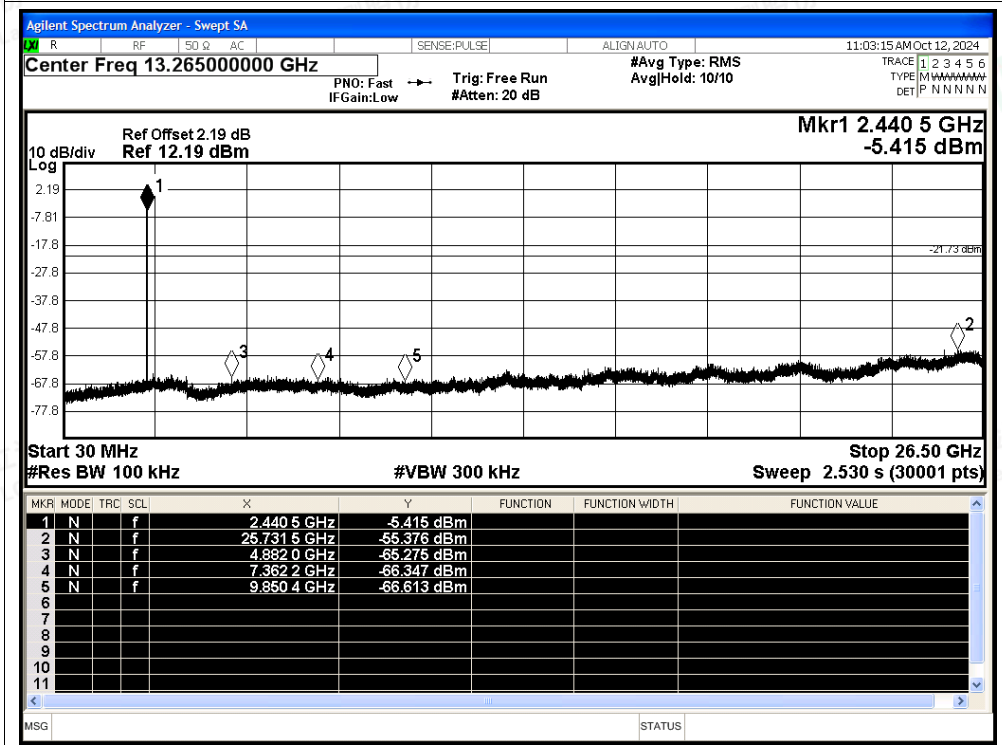




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

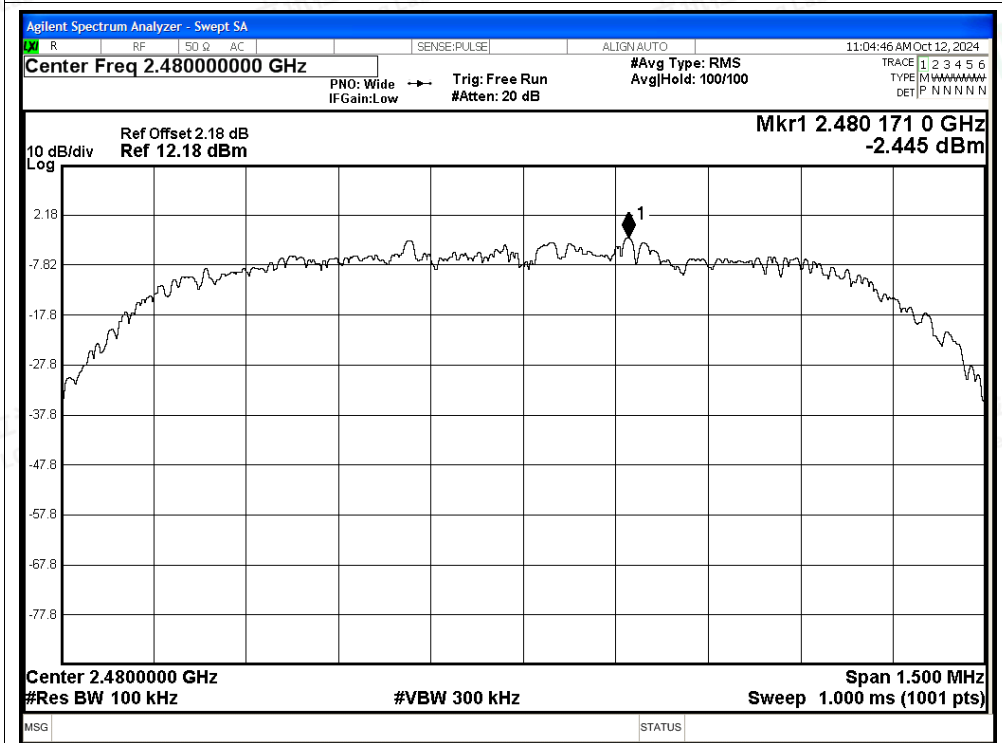


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

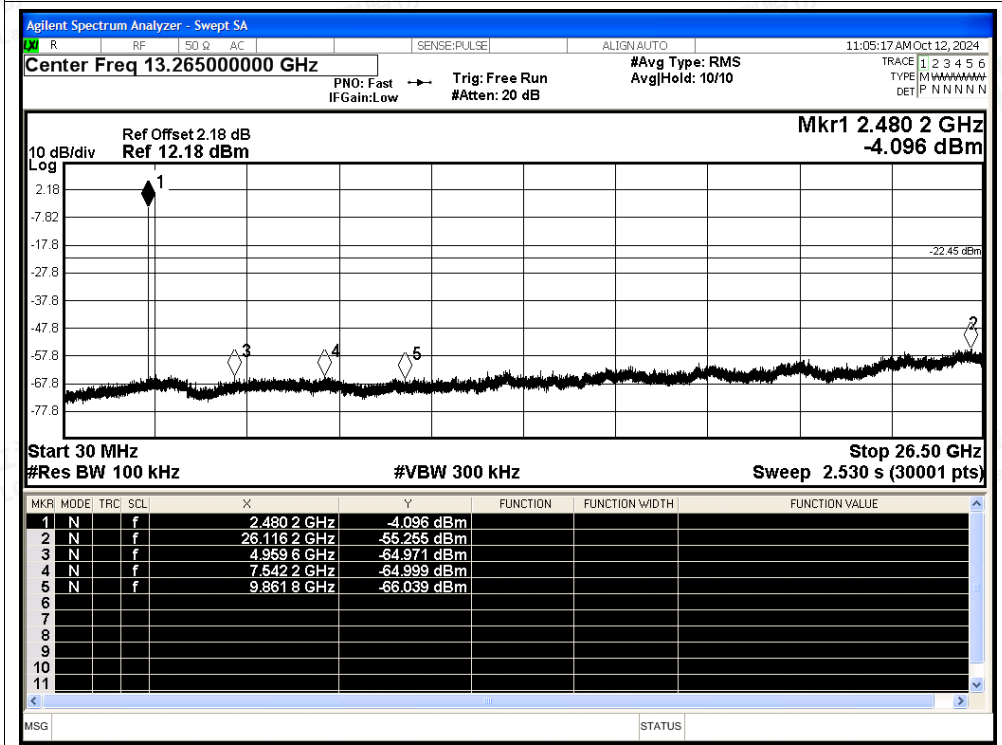




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	77.6	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	77.33	1.12	0.34
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	77.23	1.12	0.35

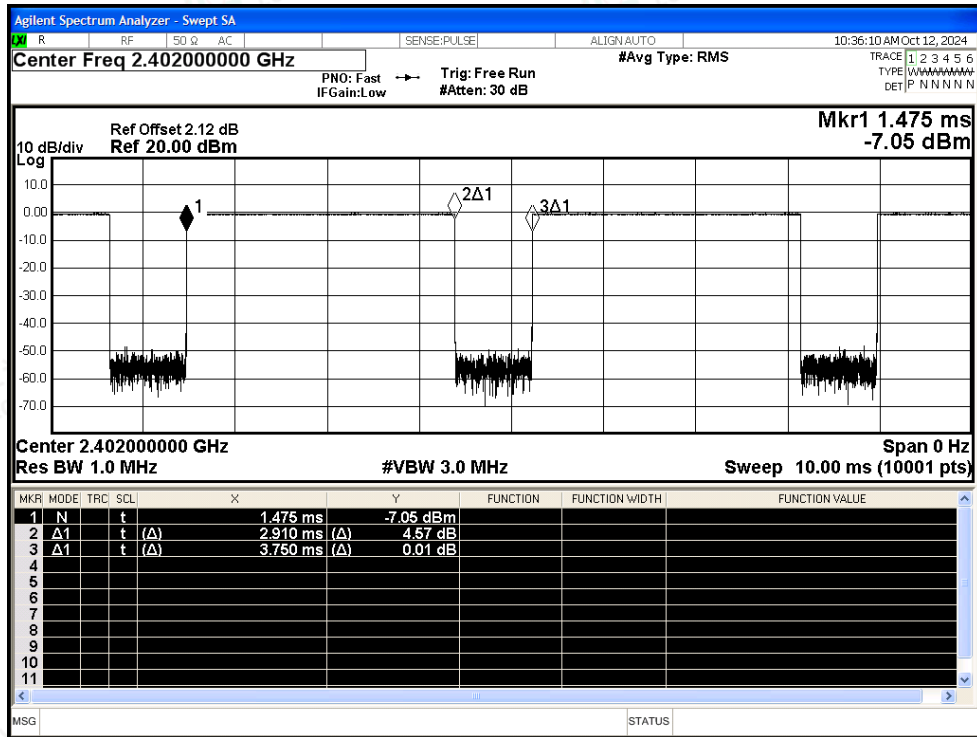


Shenzhen LCS Compliance Testing Laboratory Ltd.
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

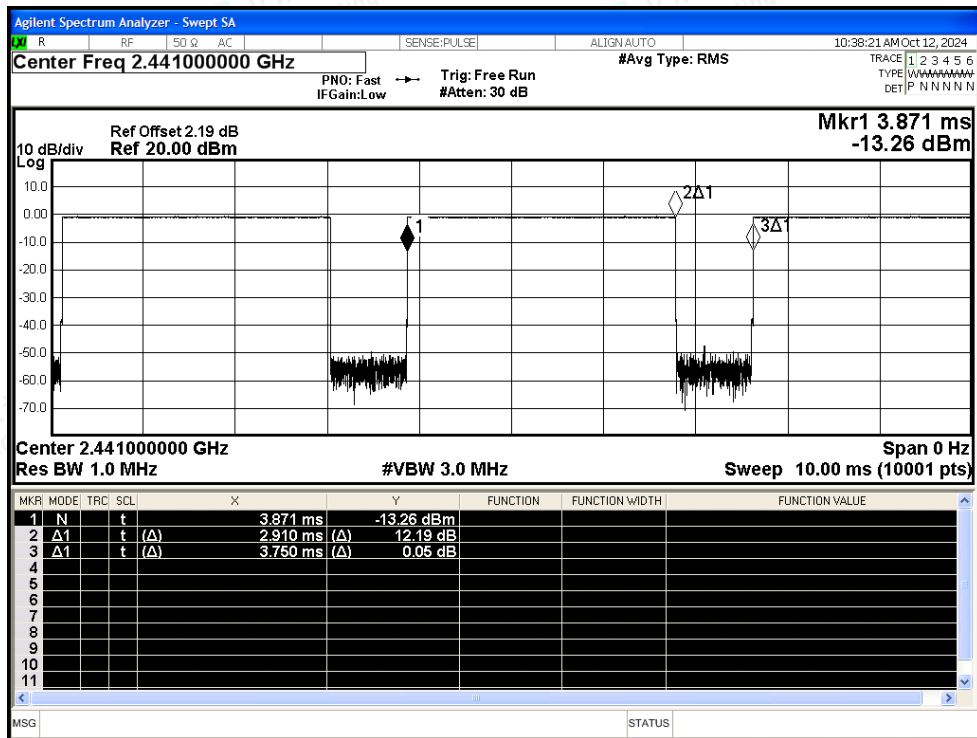


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

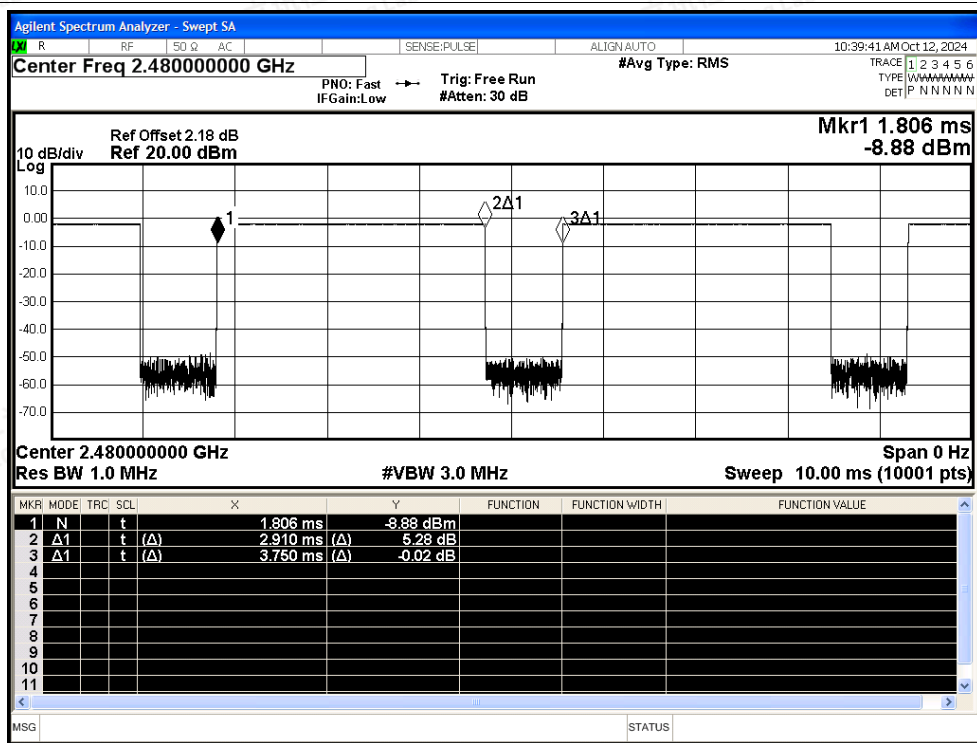


Duty Cycle NVNT 1-DH5 2441MHz Ant1

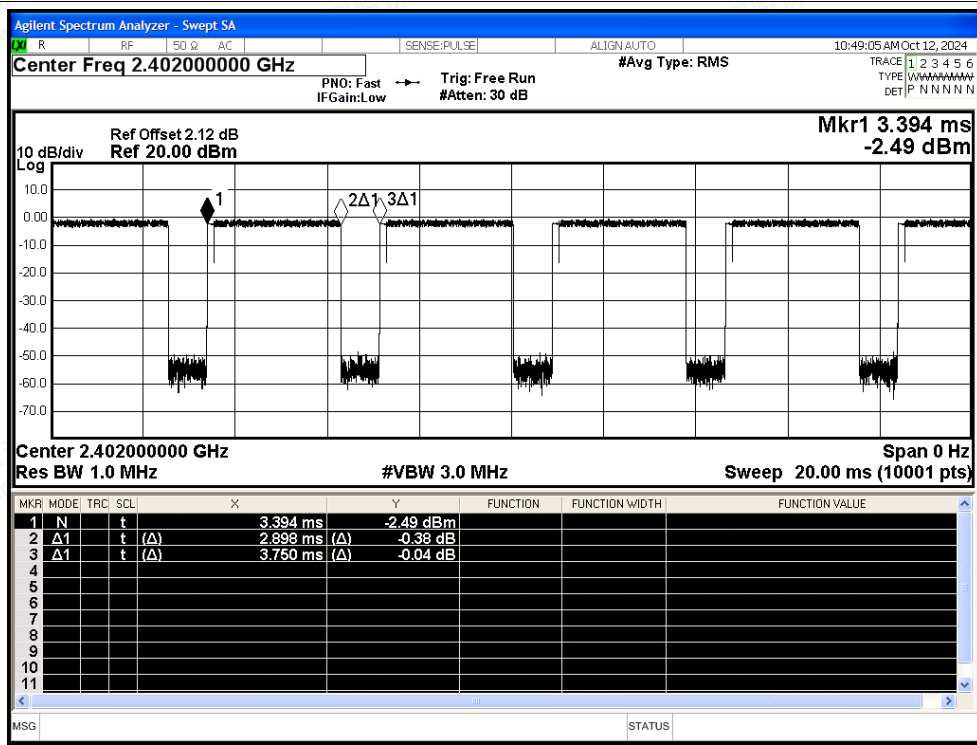




Duty Cycle NVNT 1-DH5 2480MHz Ant1

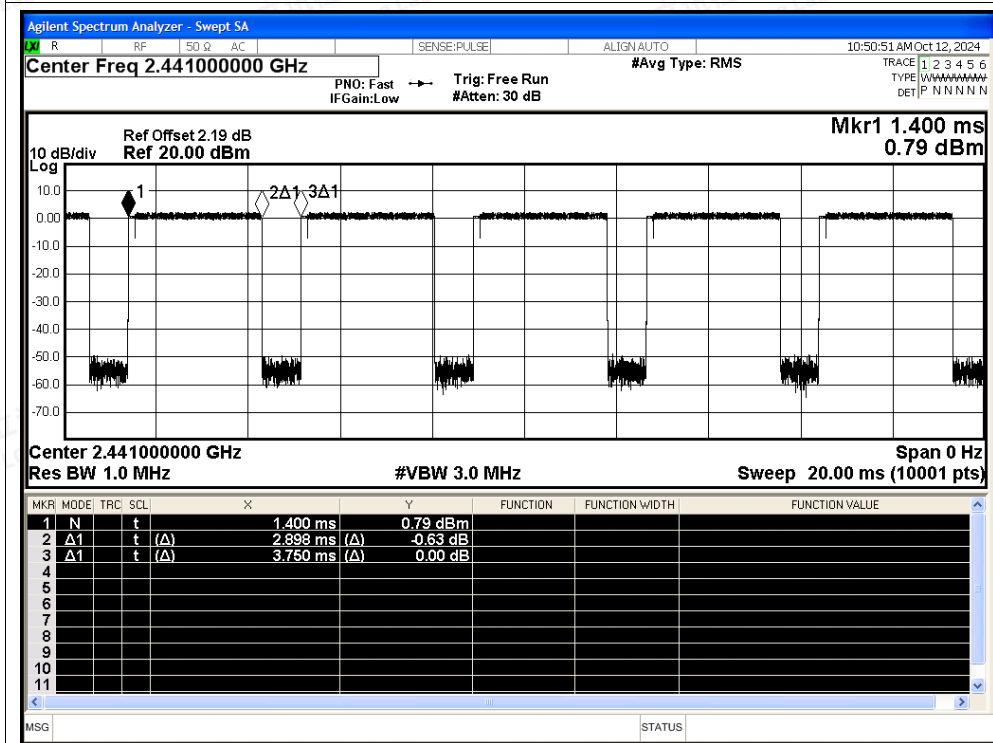


Duty Cycle NVNT 2-DH5 2402MHz Ant1

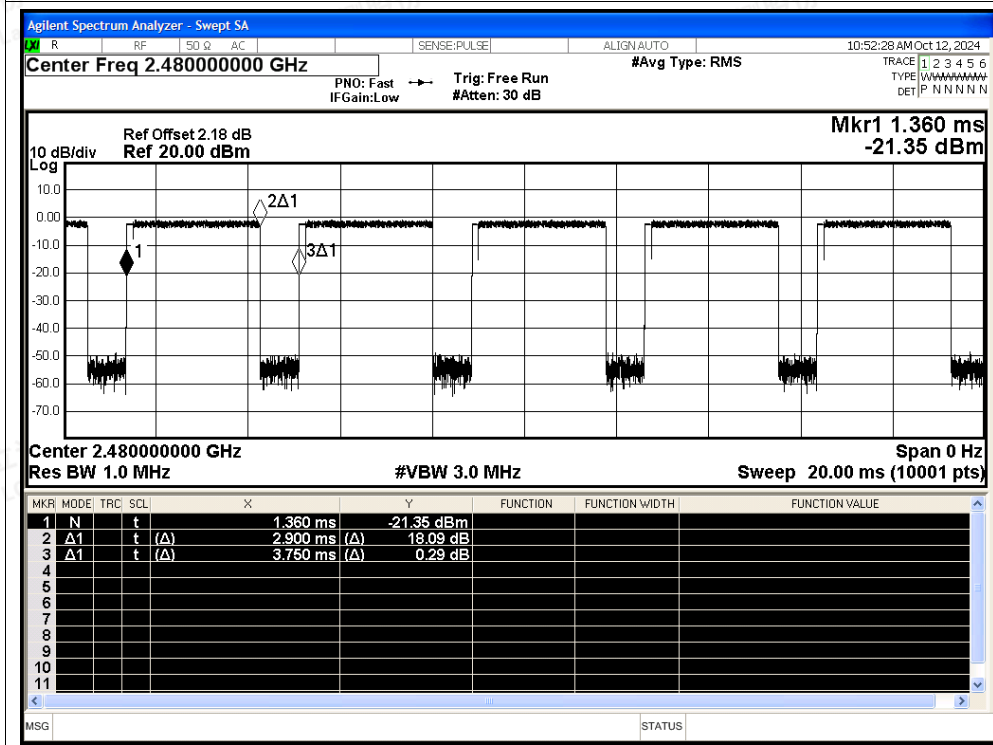




Duty Cycle NVNT 2-DH5 2441MHz Ant1

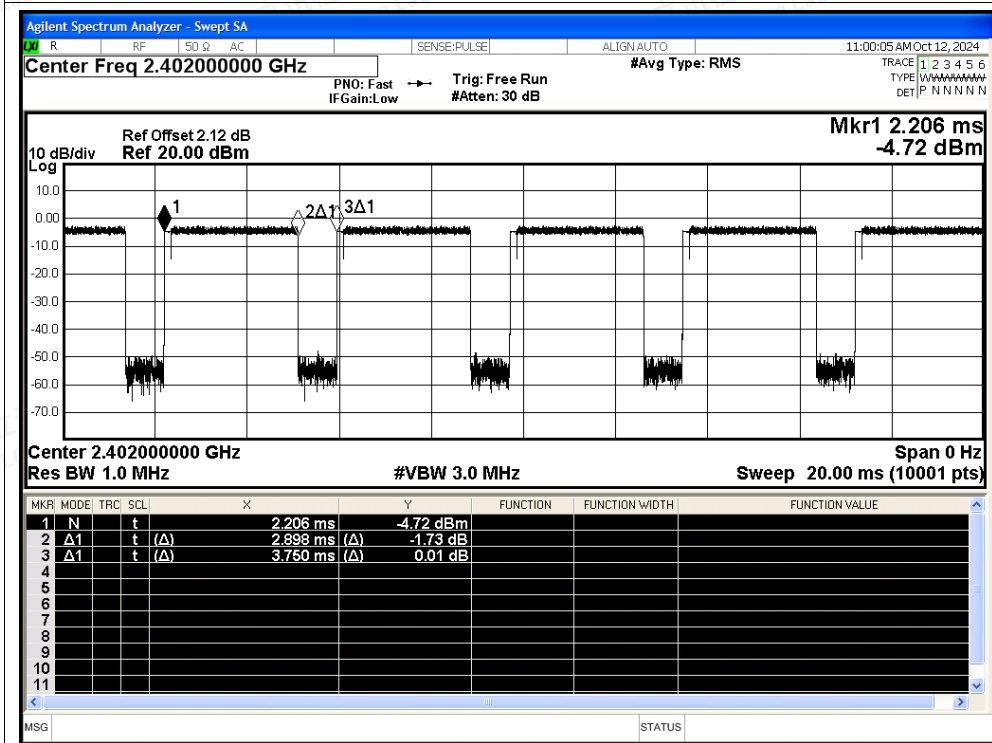


Duty Cycle NVNT 2-DH5 2480MHz Ant1

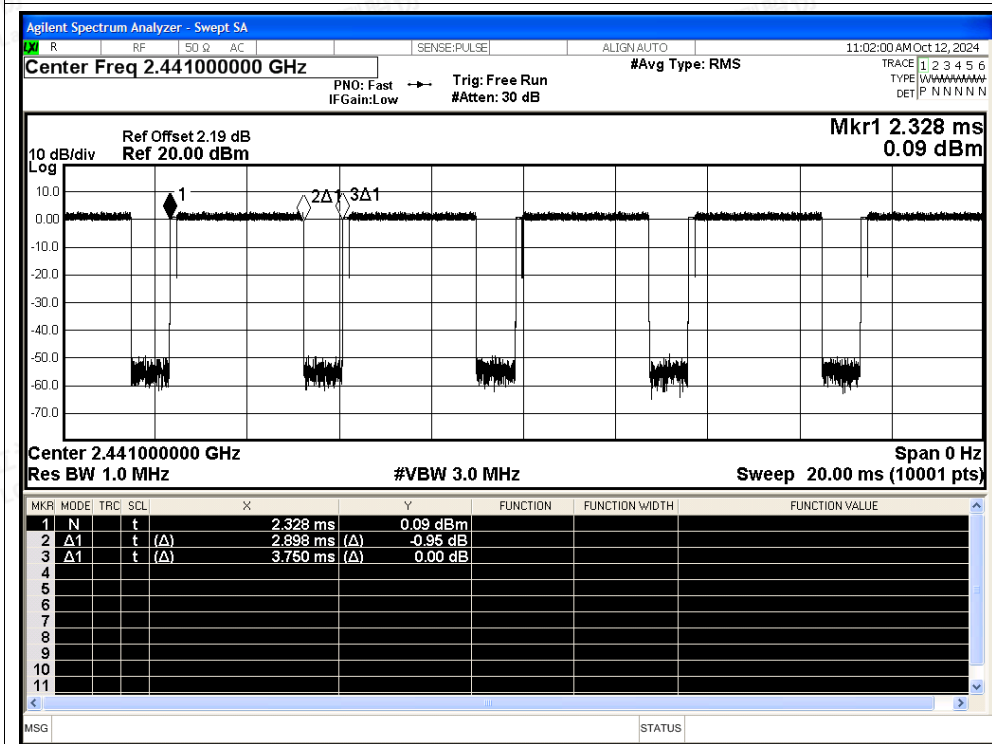


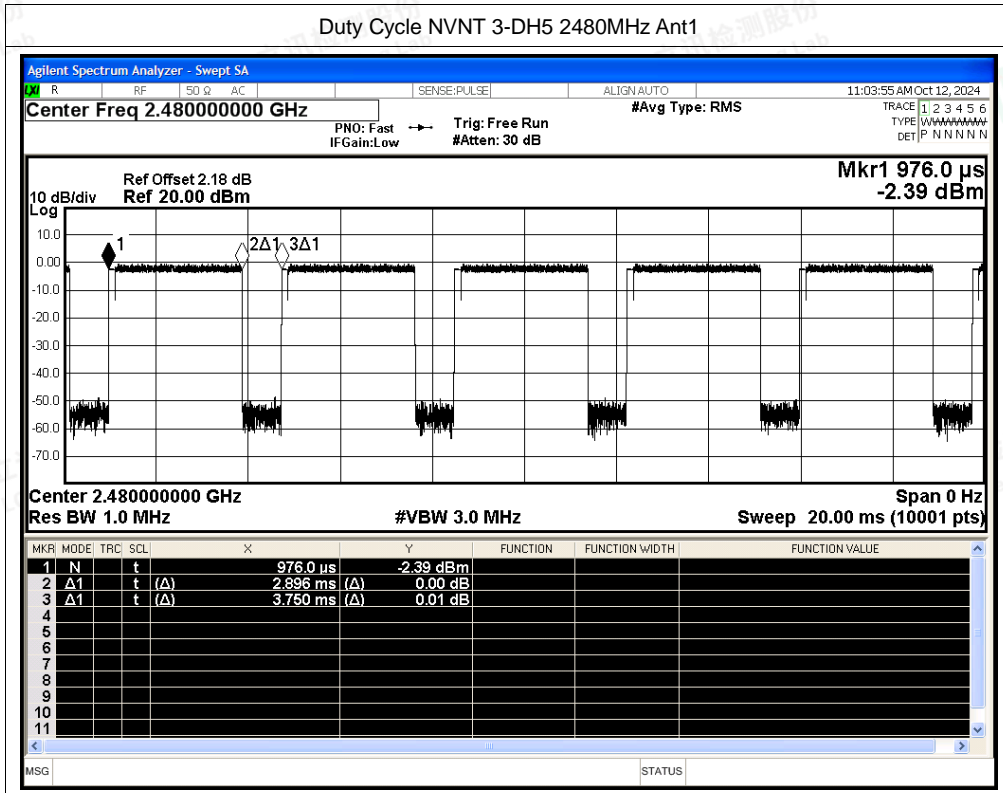


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1







A.9 Restrict Band

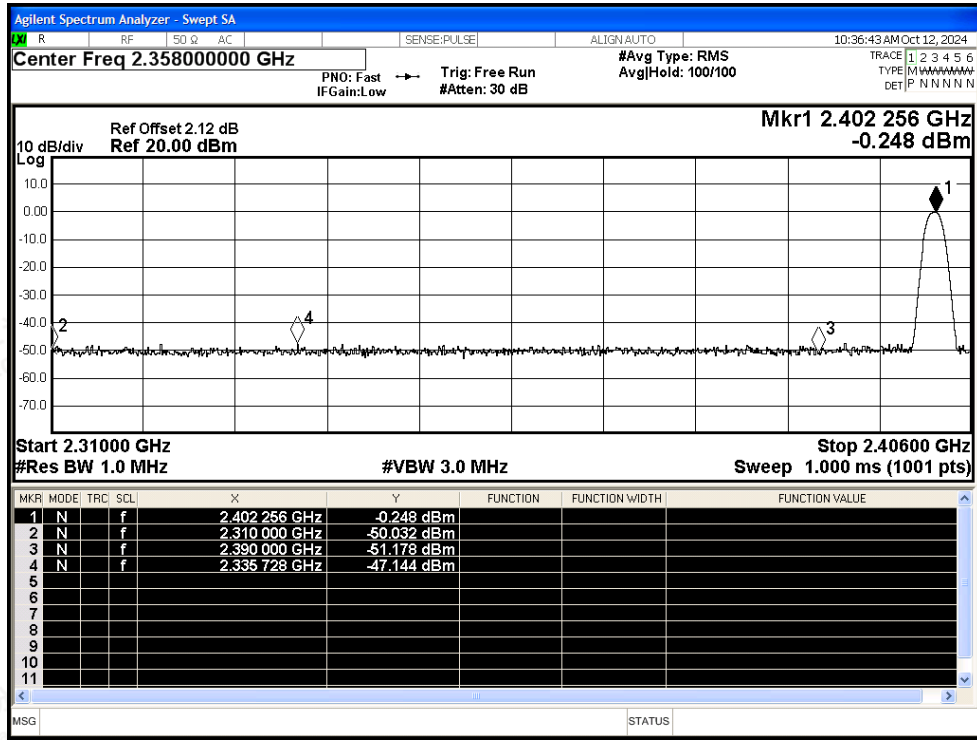
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.03	2	-	47.23	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.12	2	1.1	39.24	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2335.728	-47.14	2	-	50.12	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.224	-57.52	2	1.1	40.84	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.18	2	-	46.08	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.34	2	1.1	40.02	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.69	2	-	47.57	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.69	2	1.1	40.67	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2488.336	-46.99	2	-	50.27	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.968	-57.14	2	1.1	41.22	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.37	2	-	47.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.2	2	1.1	41.16	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.86	2	-	47.4	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.97	2	1.12	39.41	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.872	-46.95	2	-	50.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.8	-57.48	2	1.12	40.9	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.88	2	-	47.38	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.33	2	1.12	40.05	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.09	2	-	47.17	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.33	2	1.12	40.05	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.04	-47.05	2	-	50.21	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.616	-56.89	2	1.12	41.49	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.64	2	-	48.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.94	2	1.12	40.44	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.94	2	-	47.32	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.79	2	1.12	39.59	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2316.048	-47.69	2	-	49.57	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2377.104	-57.62	2	1.12	40.76	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.03	2	-	47.23	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.44	2	1.12	39.94	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.52	2	-	47.74	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.15	2	1.12	41.23	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2487.544	-47.5	2	-	49.76	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-57.08	2	1.12	41.3	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.3	2	-	46.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.98	2	1.12	40.4	Average	54	Pass



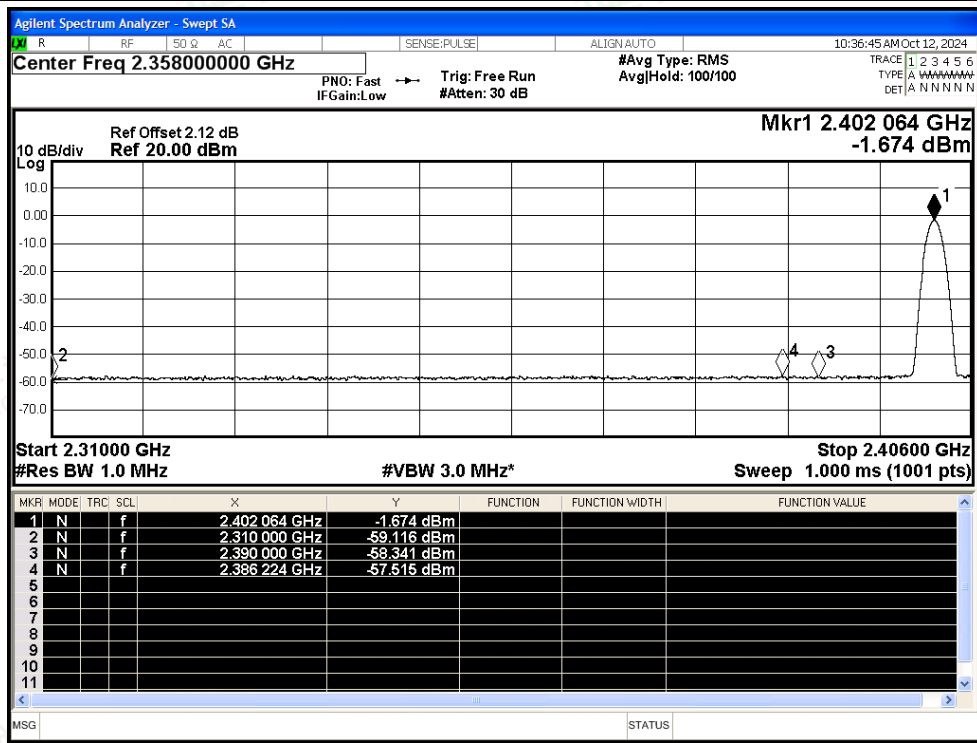


Test Graphs

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

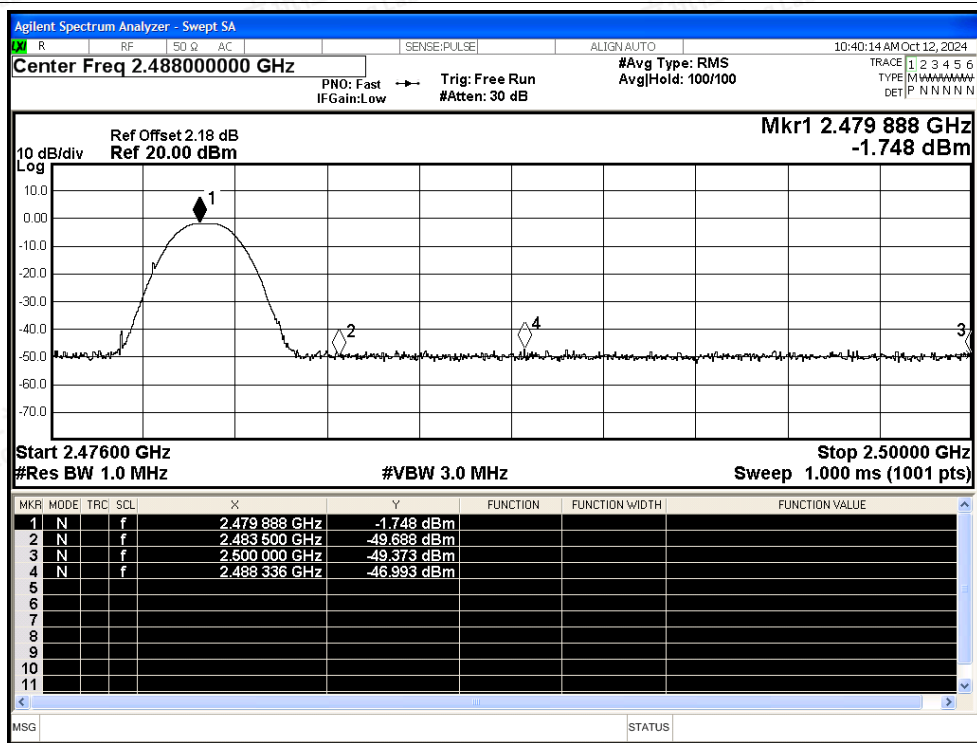


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

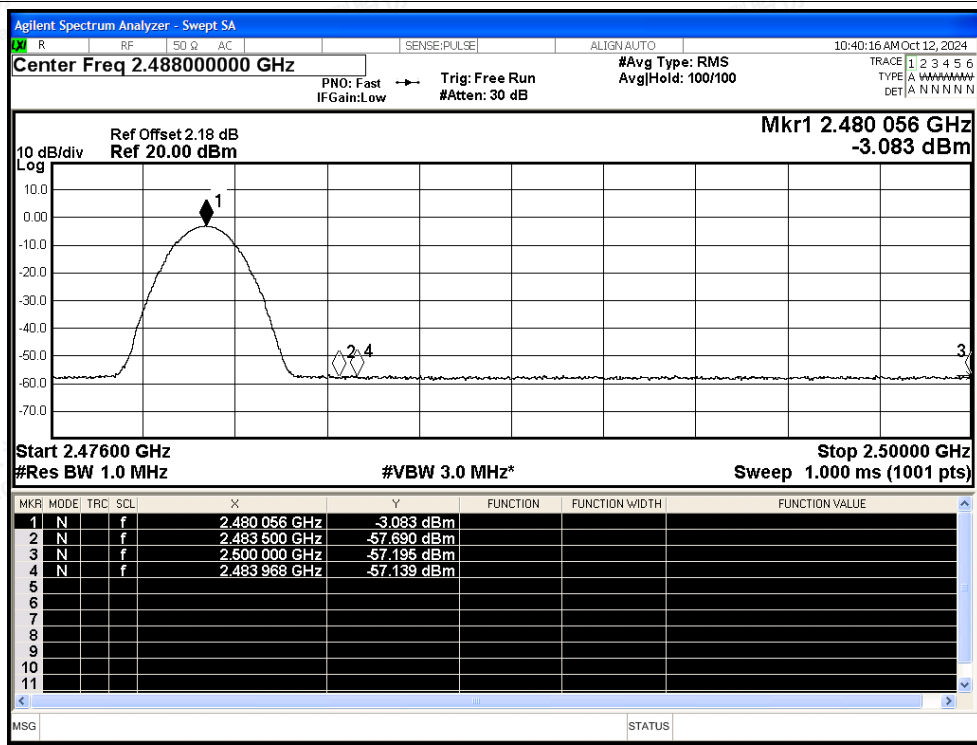




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

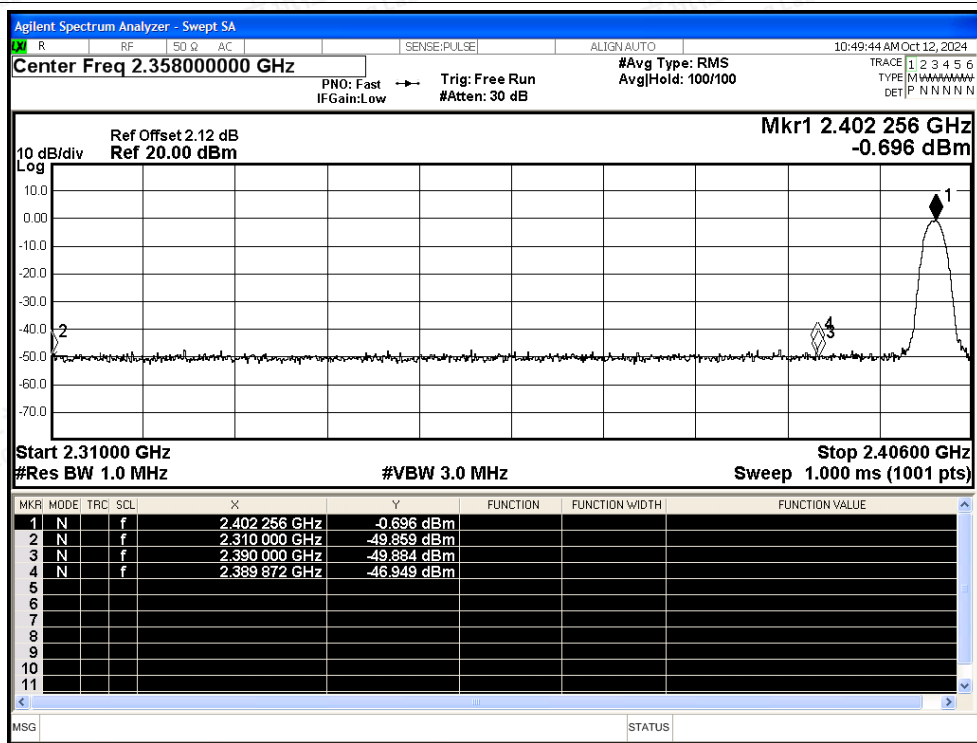


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

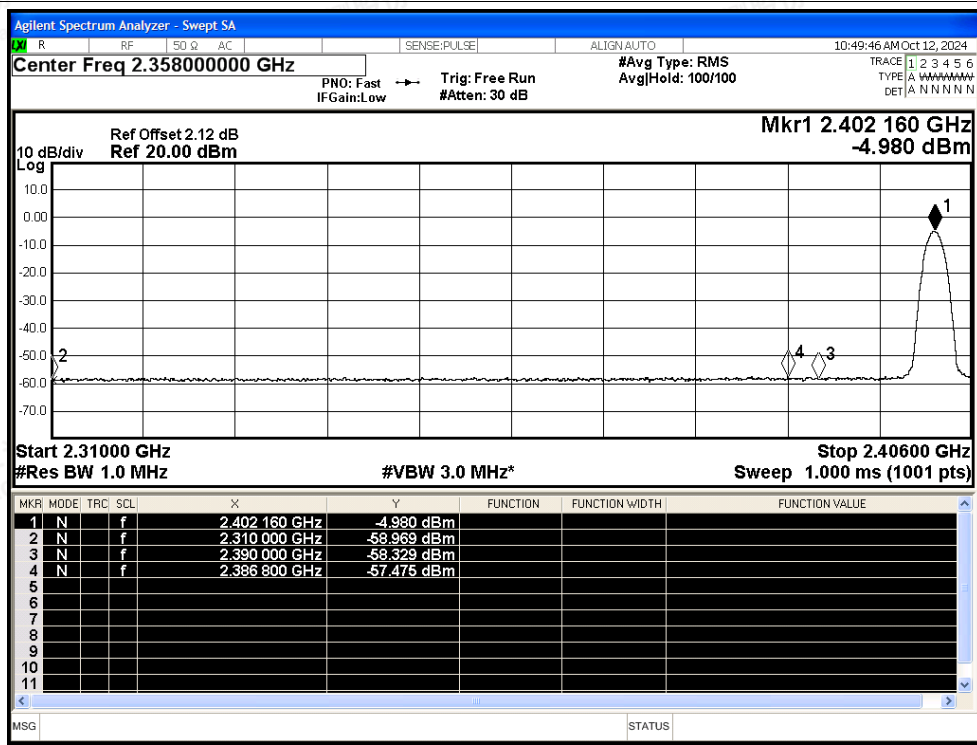




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

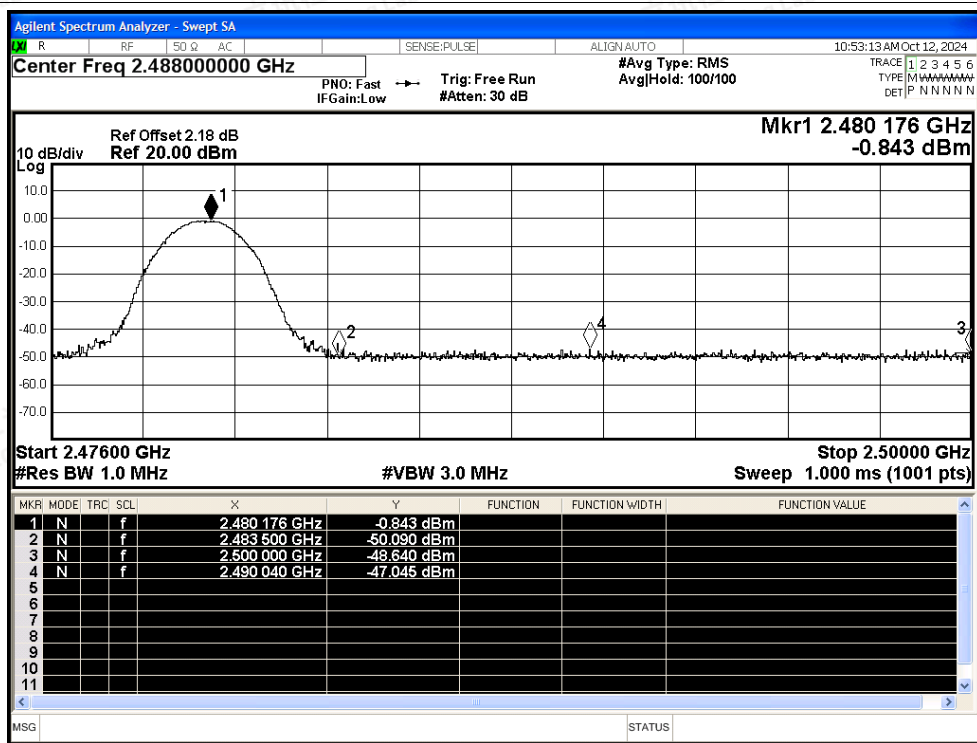


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

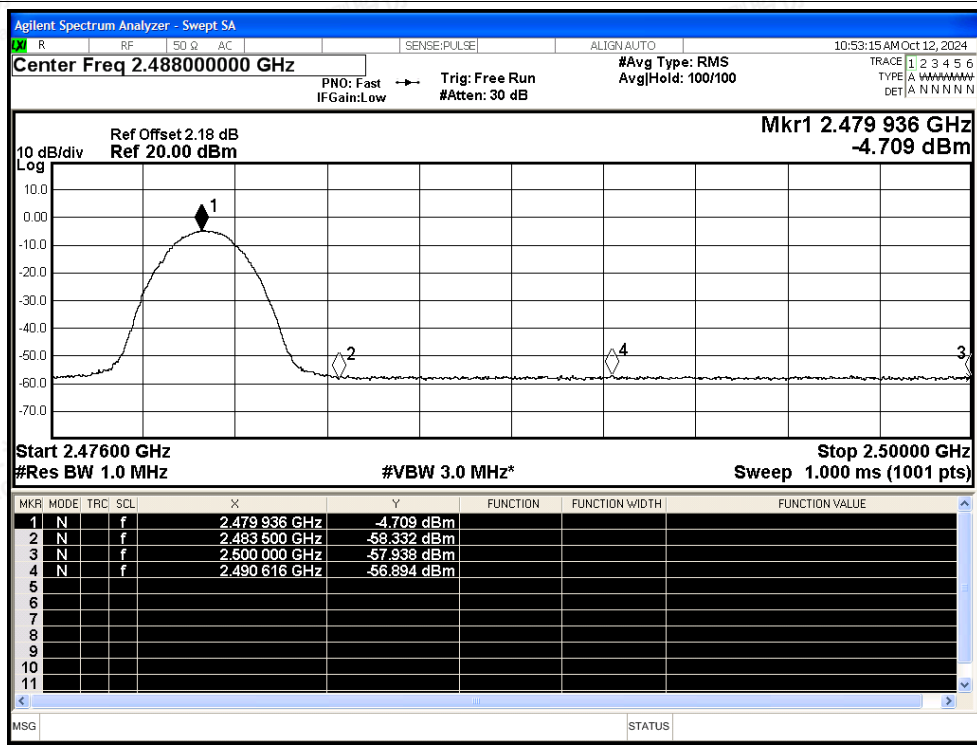




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

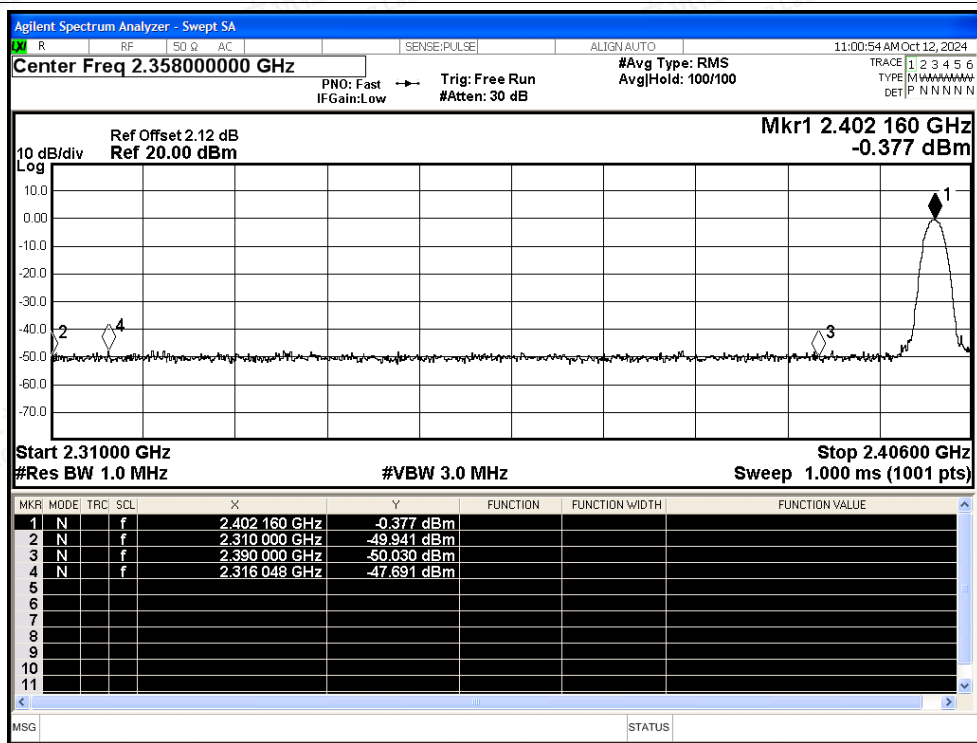


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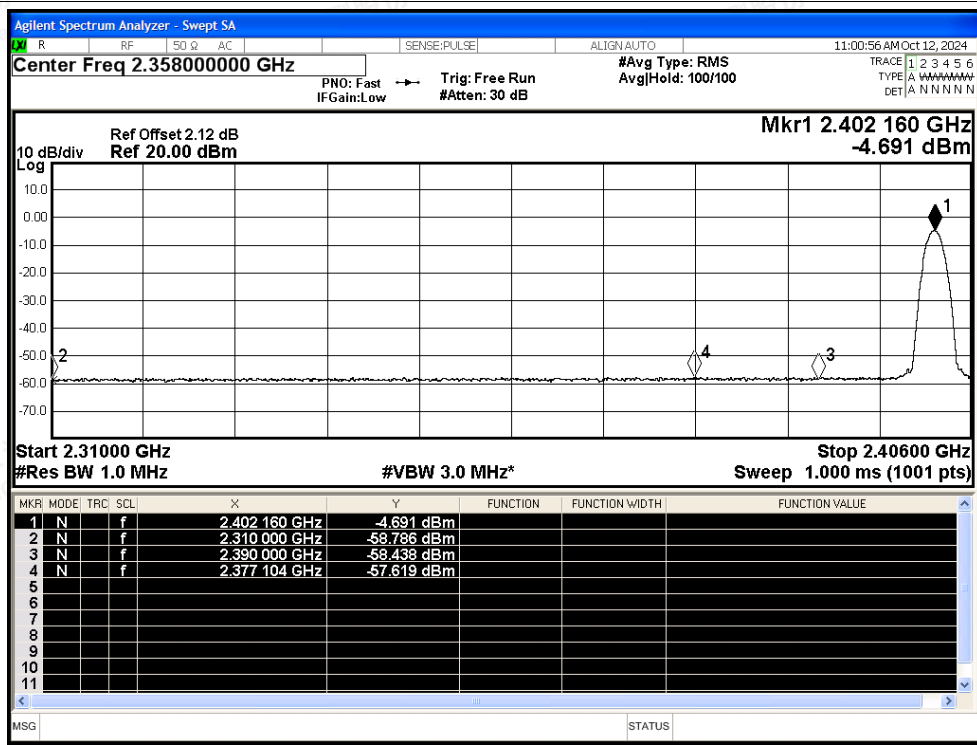




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

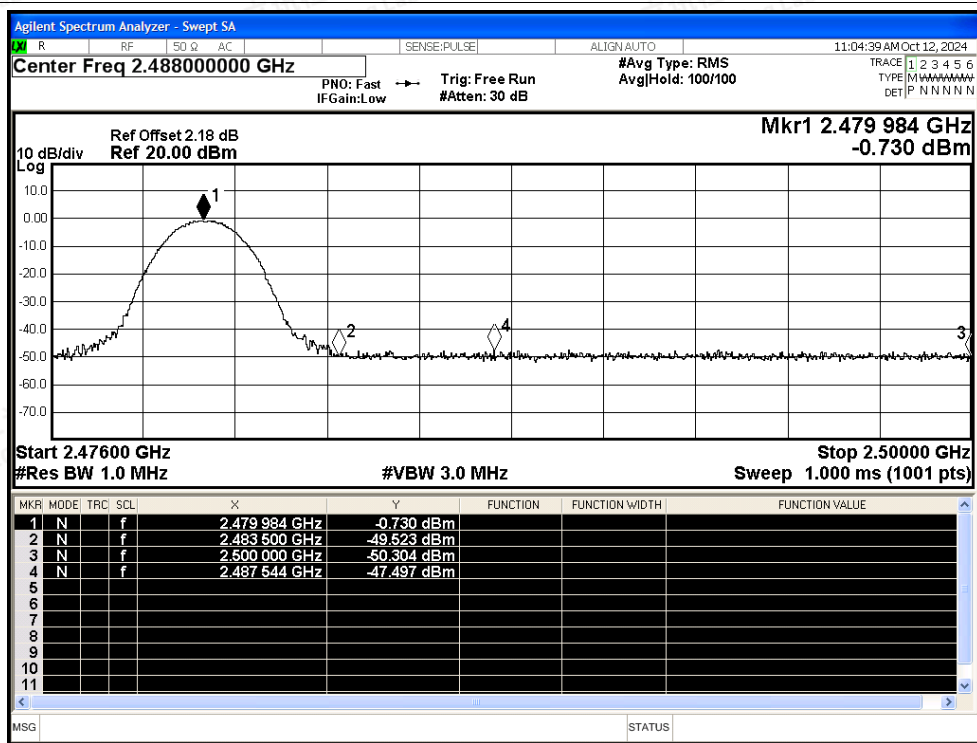


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

