



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: smart watch

Test Model: TB62D

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
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	0.94	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.95	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.96	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.311	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.291	N/A	Pass



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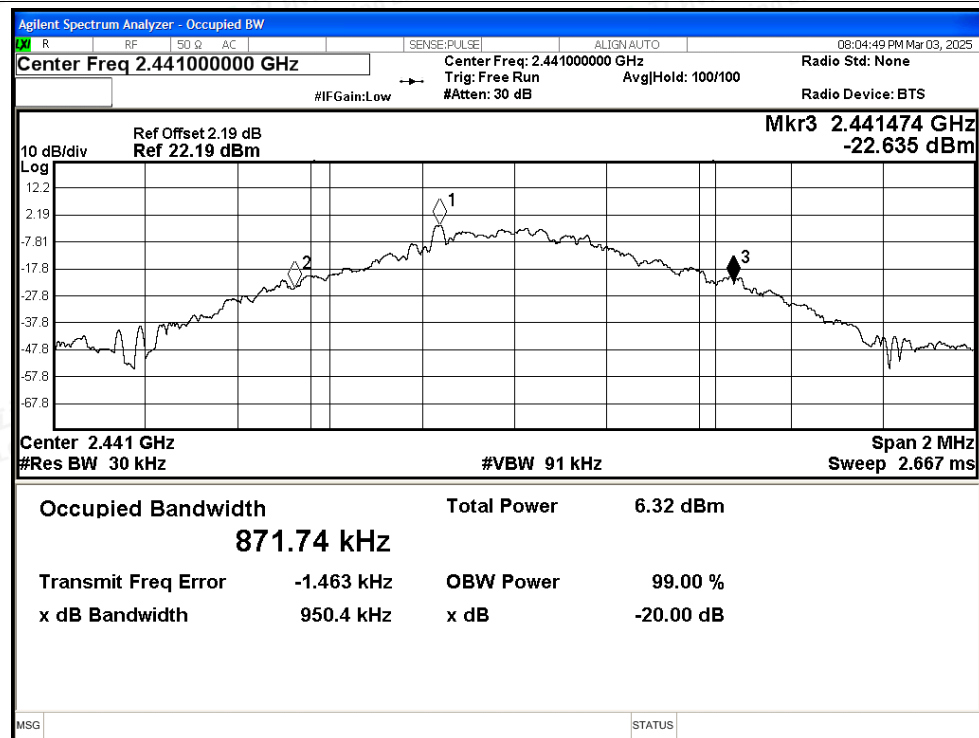


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

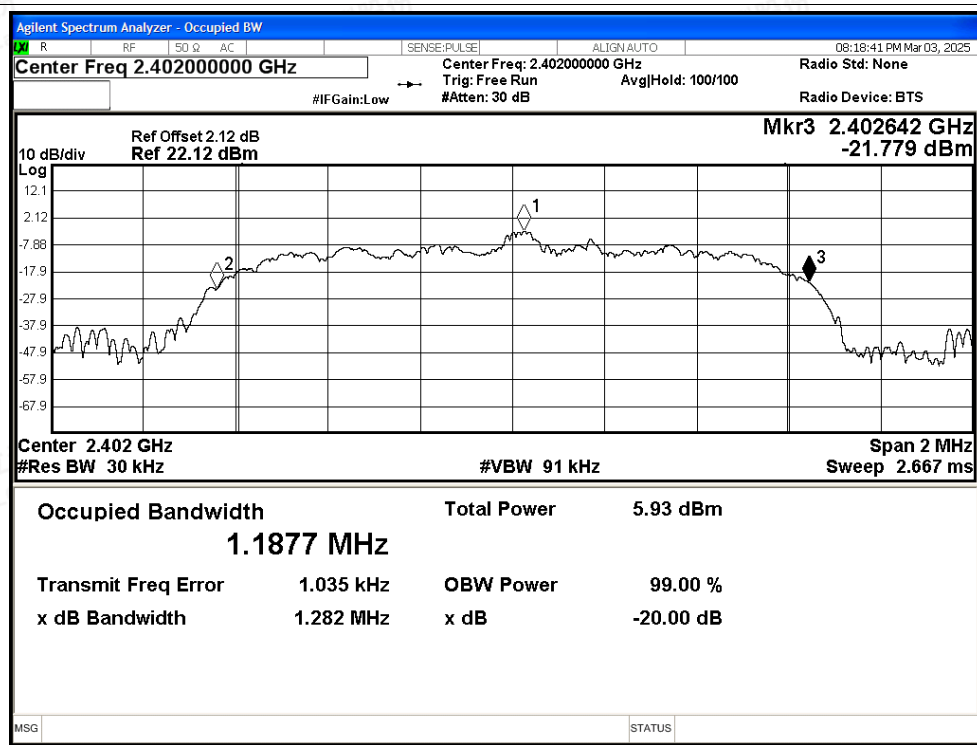




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

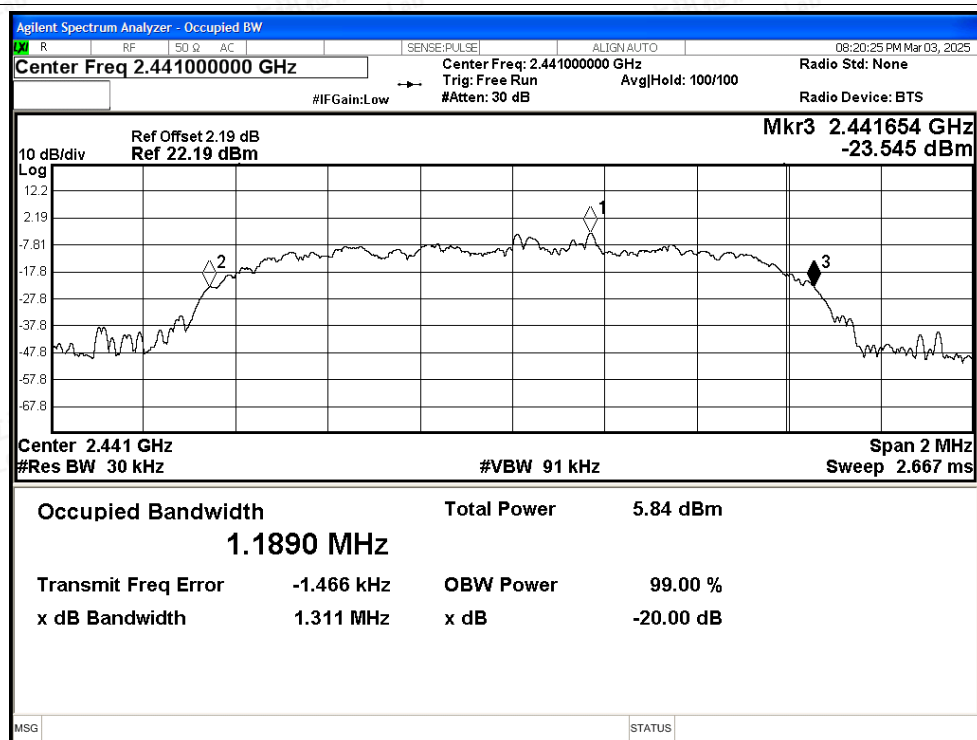


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

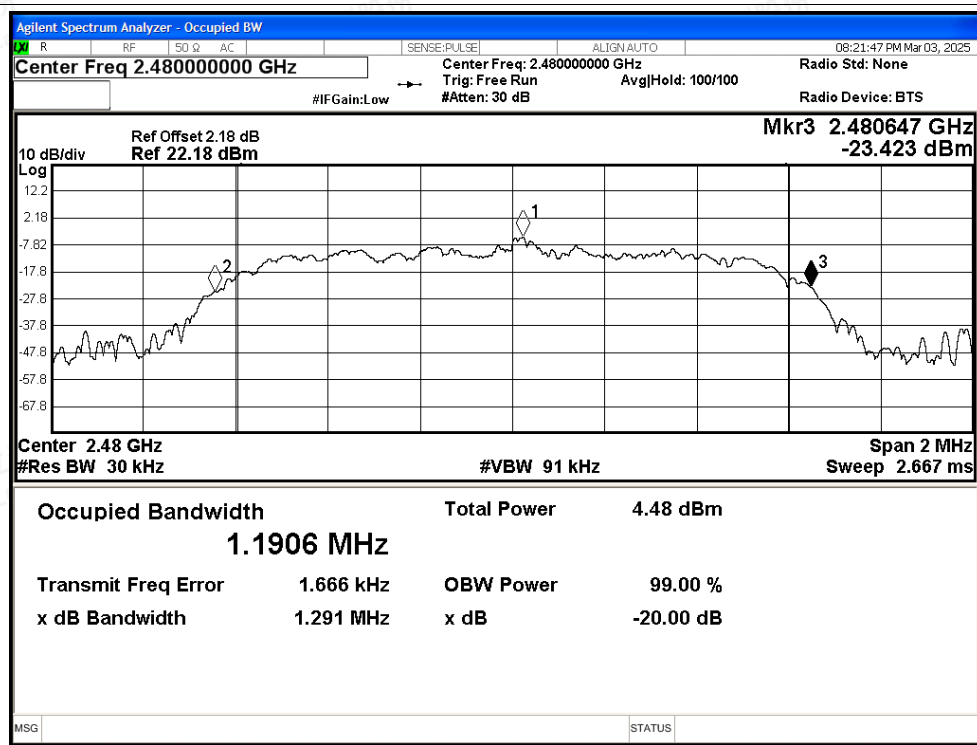




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.57	21	Pass
NVNT	1-DH5	2441	Ant1	-0.04	21	Pass
NVNT	1-DH5	2480	Ant1	-1.19	21	Pass
NVNT	2-DH5	2402	Ant1	1.39	21	Pass
NVNT	2-DH5	2441	Ant1	1.62	21	Pass
NVNT	2-DH5	2480	Ant1	0.41	21	Pass

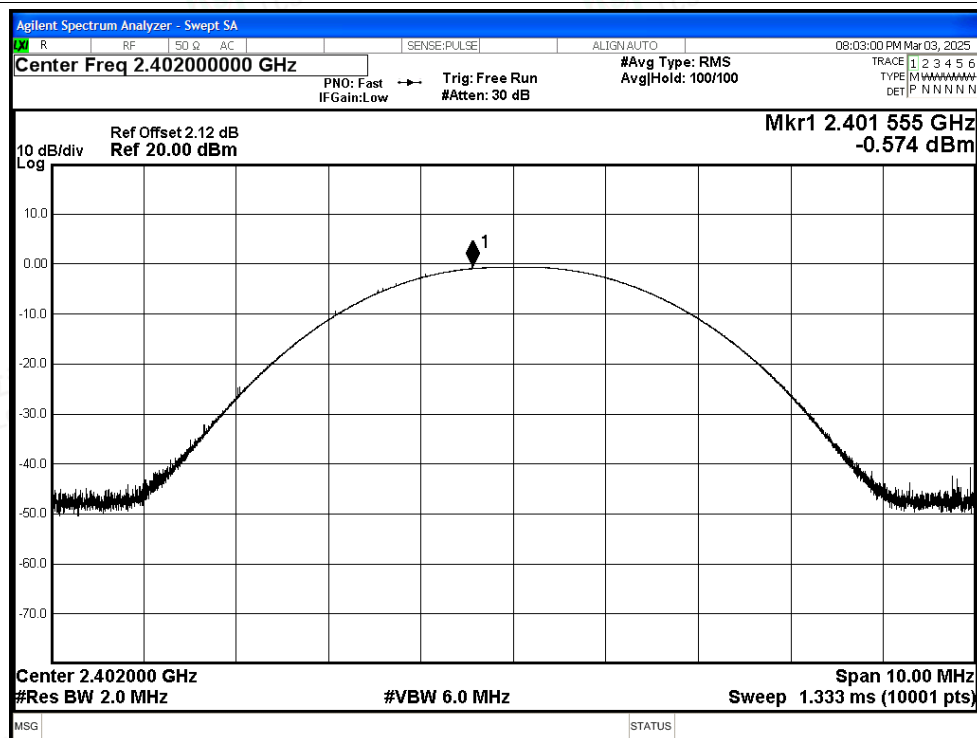


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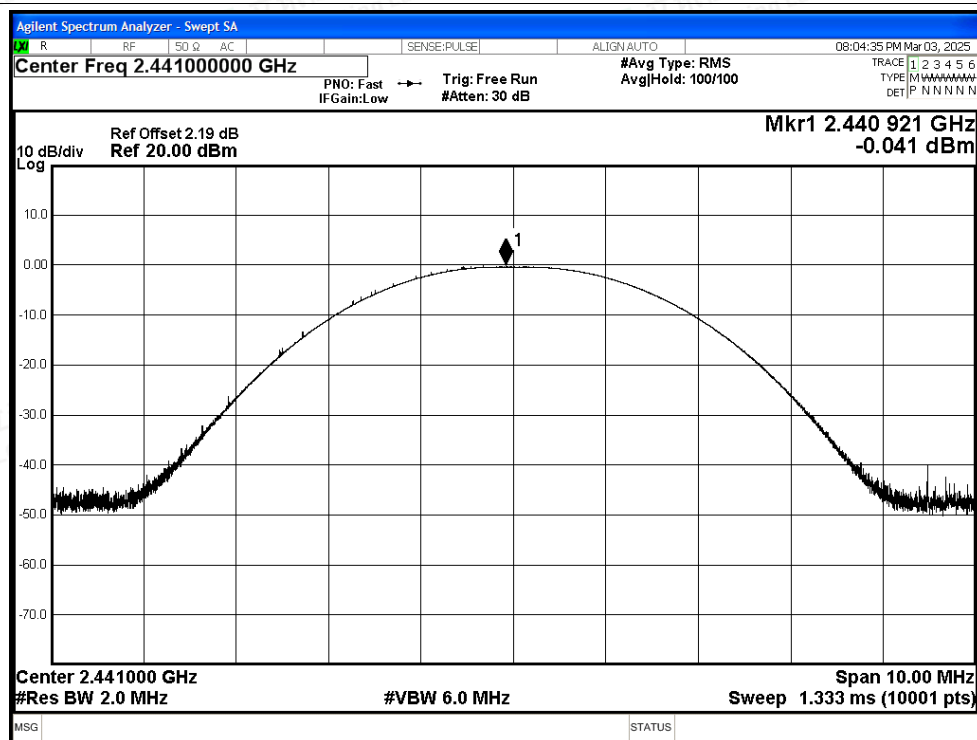


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

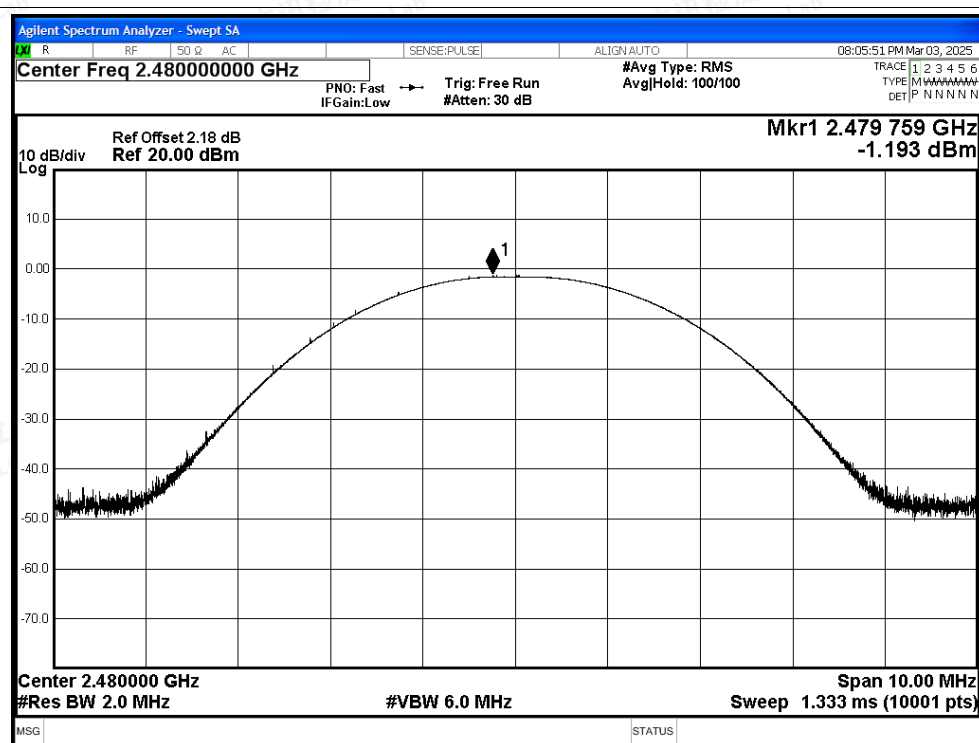


Power NVNT 1-DH5 2441MHz Ant1

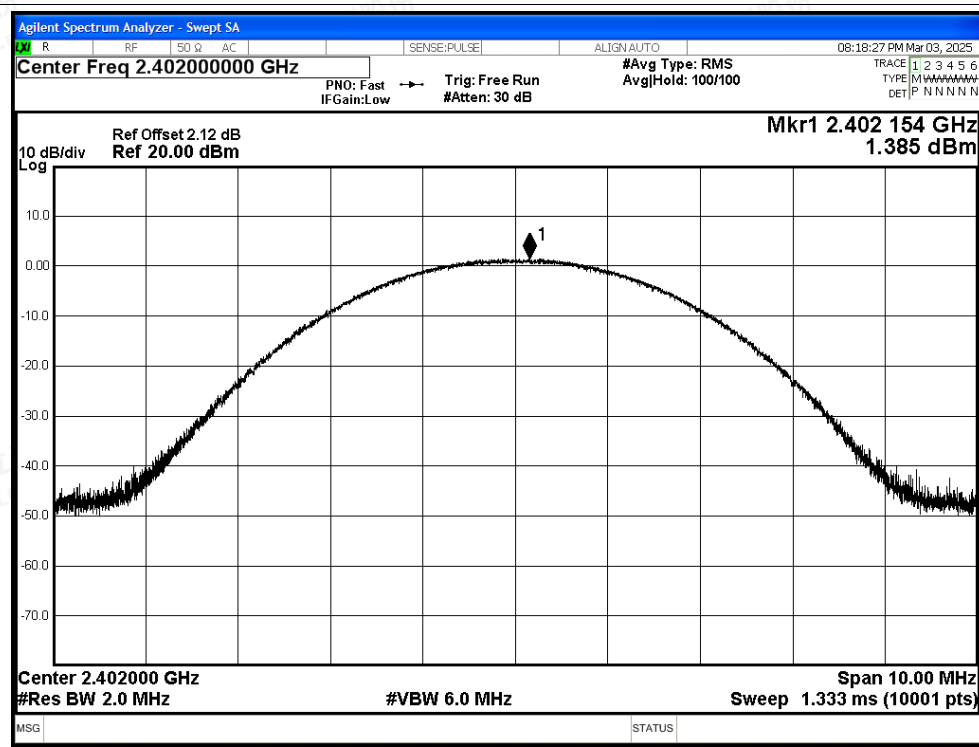




Power NVNT 1-DH5 2480MHz Ant1

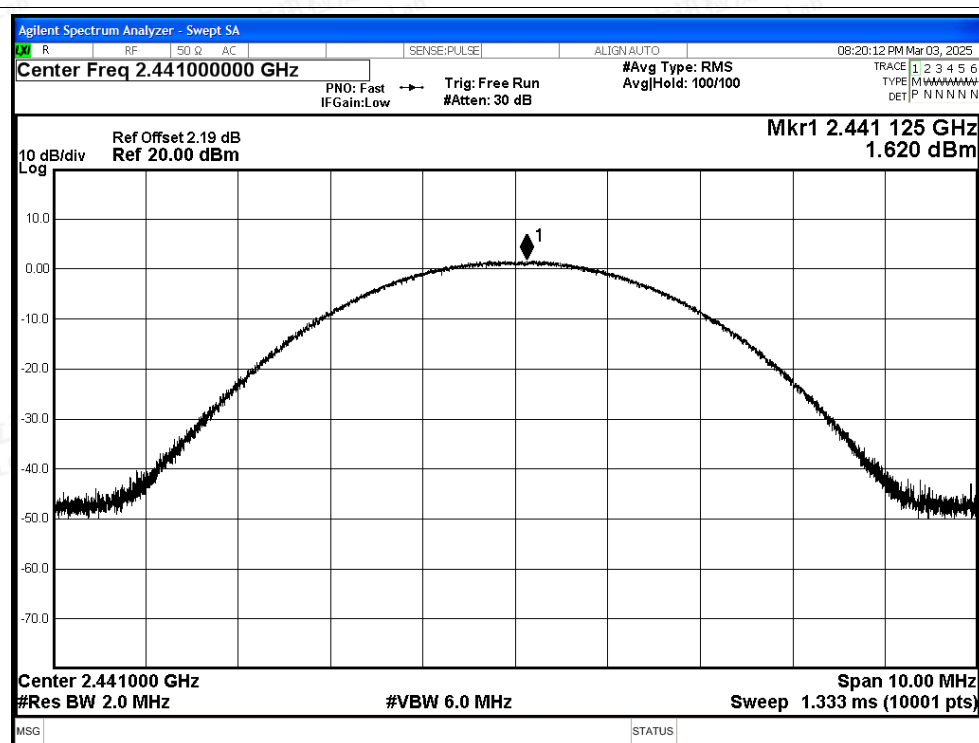


Power NVNT 2-DH5 2402MHz Ant1

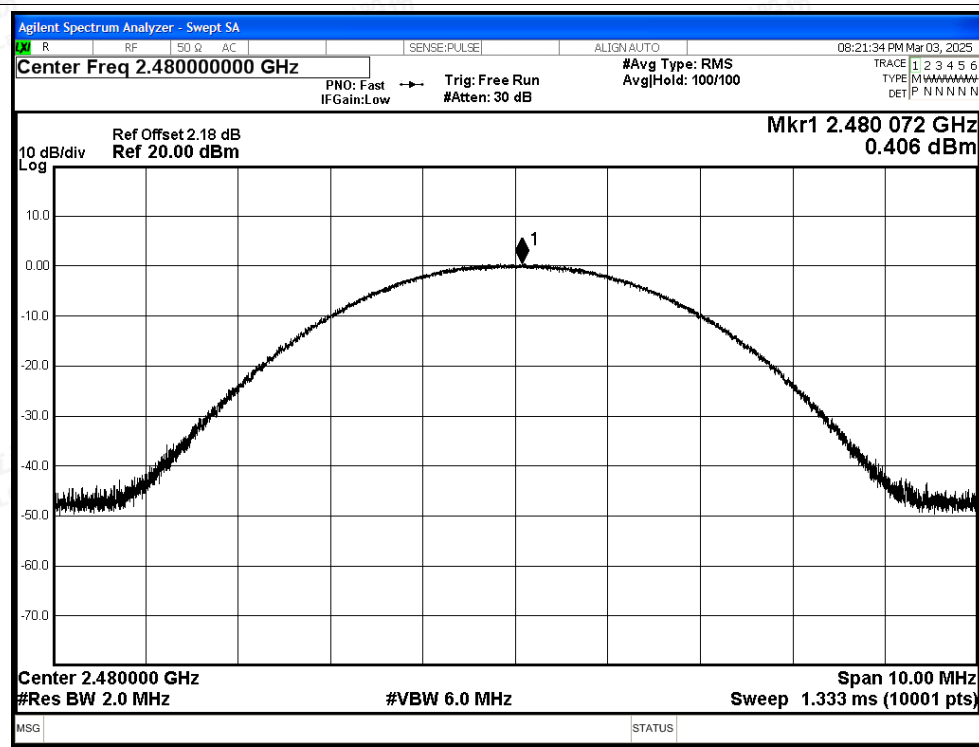




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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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	Ant1	2402.016	2402.834	0.818	0.640	Pass
NVNT	2-DH5	Ant1	2401.998	2403.032	1.034	0.874	Pass

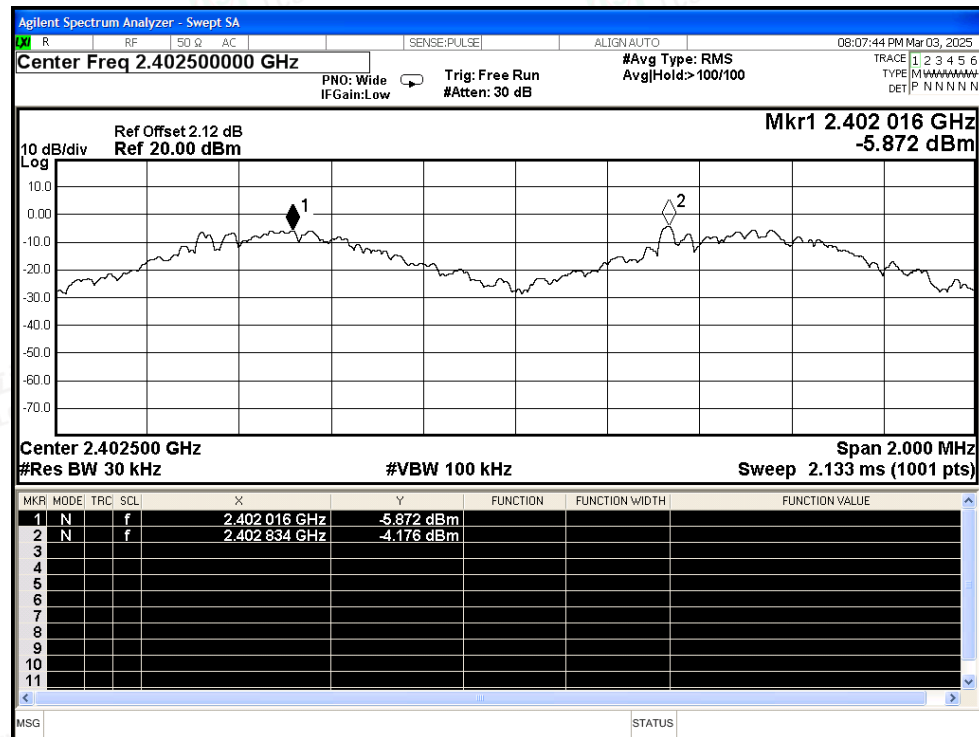


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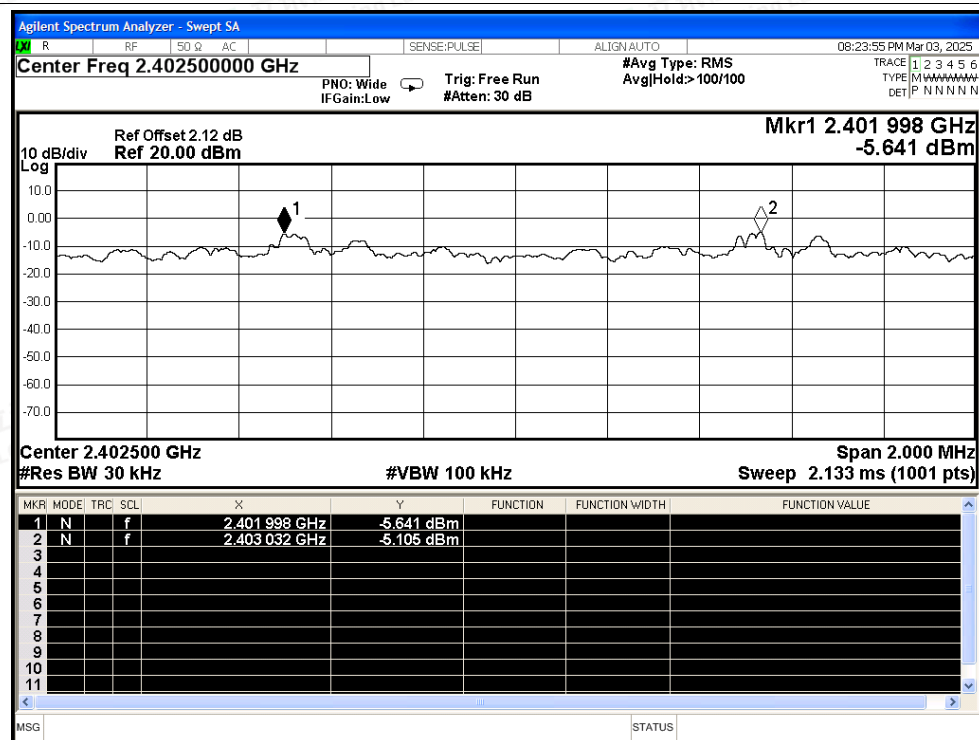


Test Graphs

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	333.27	115	31600	400	Pass

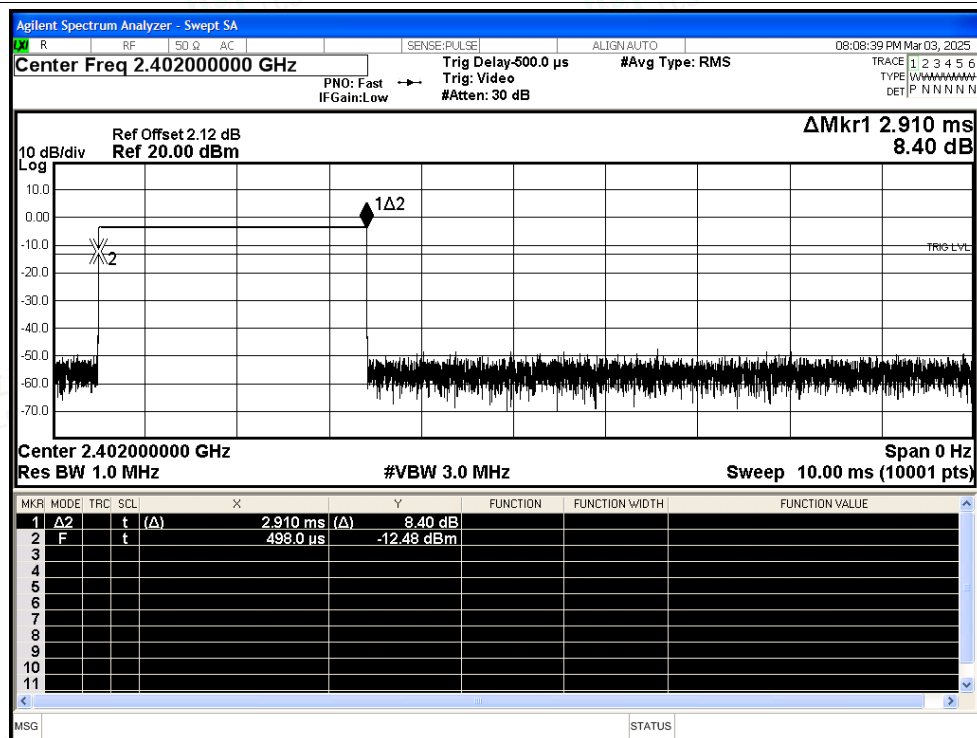


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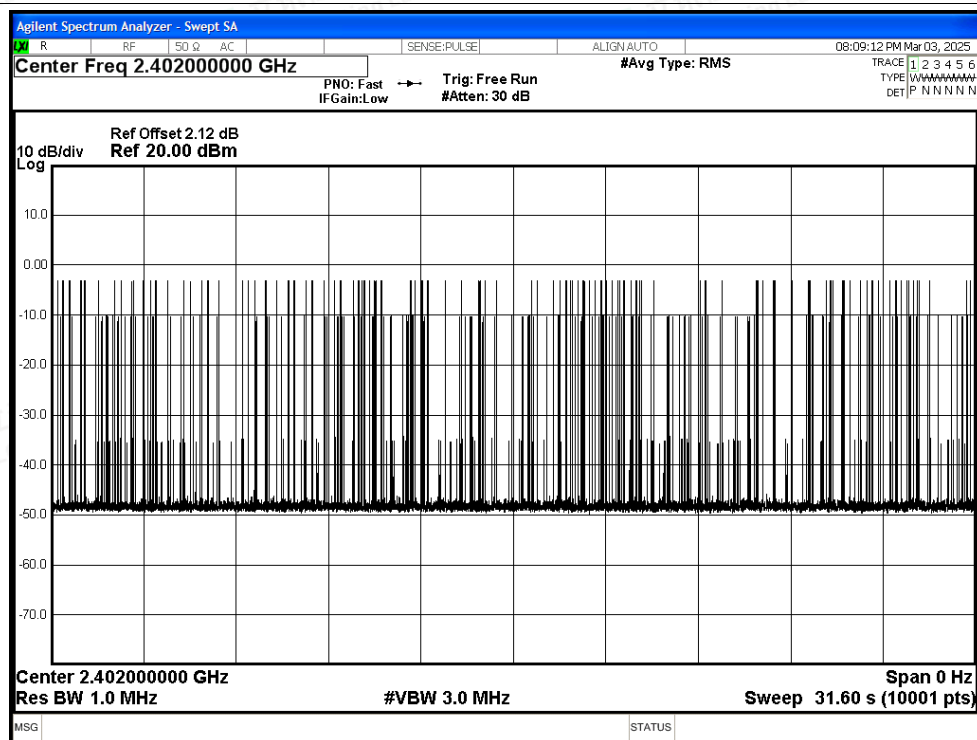


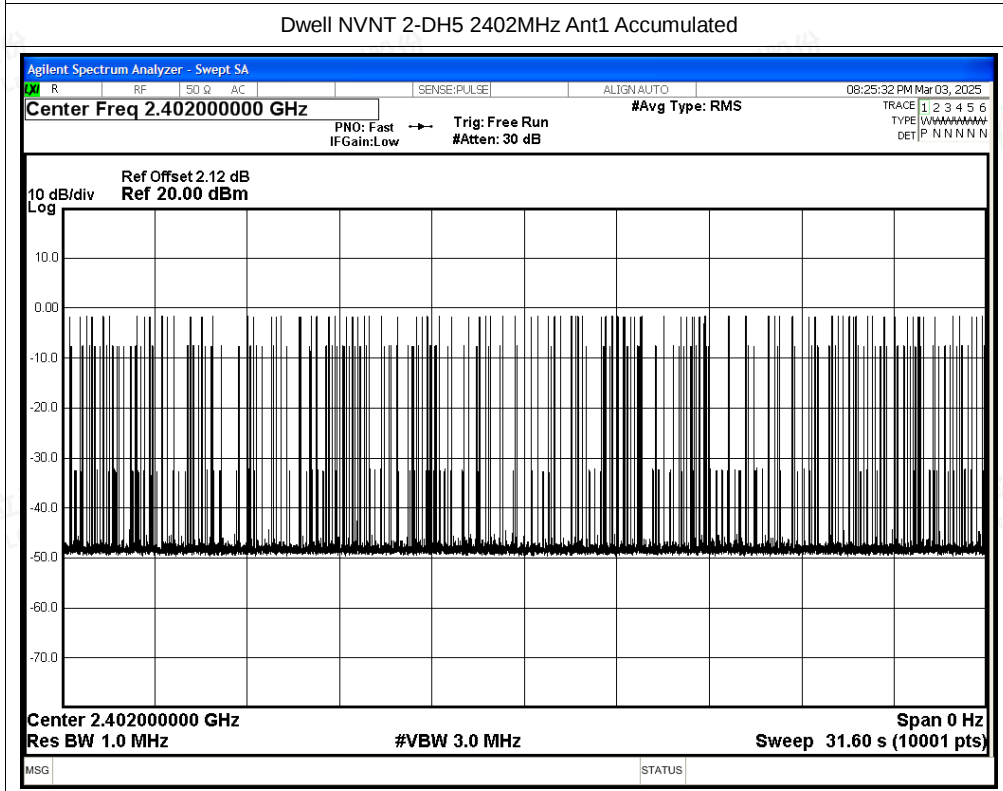
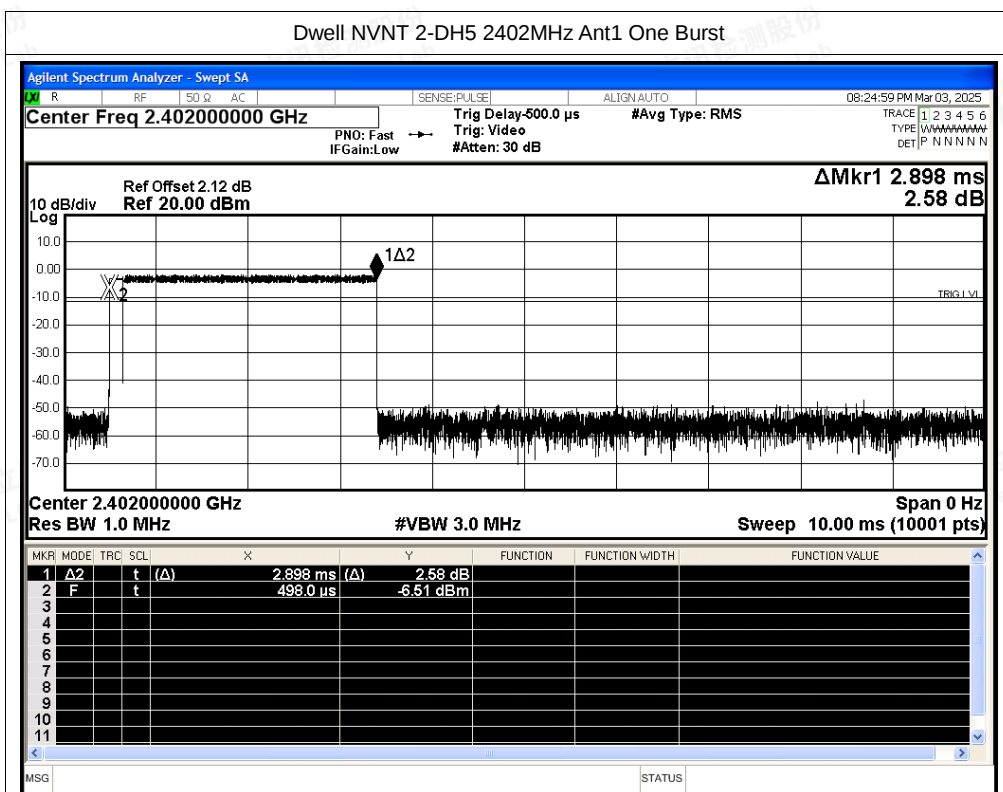
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-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

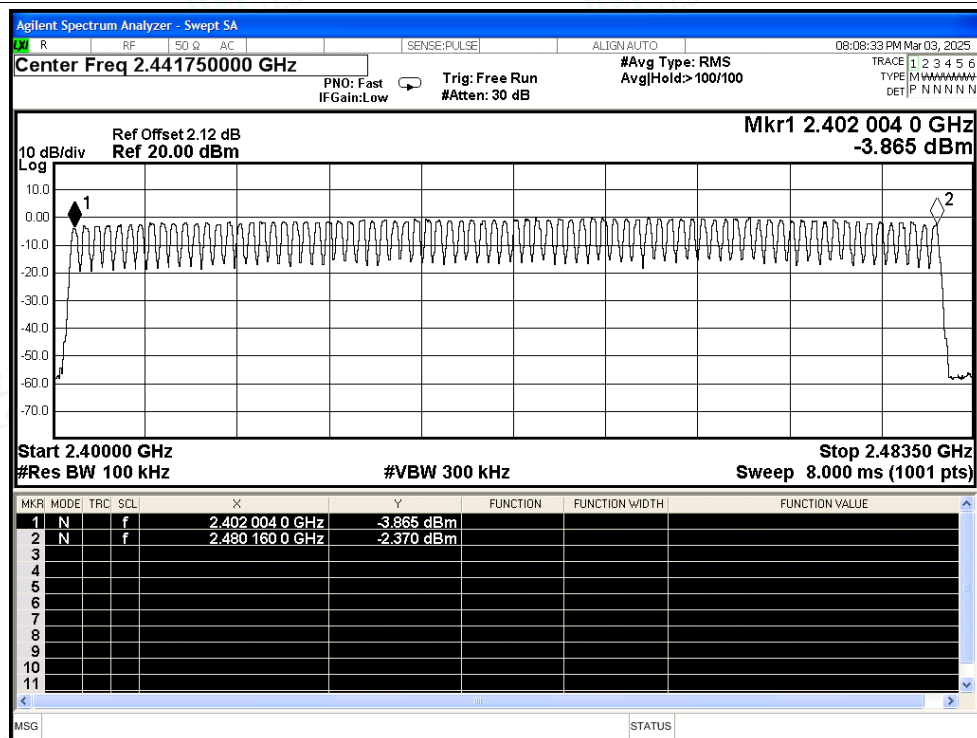


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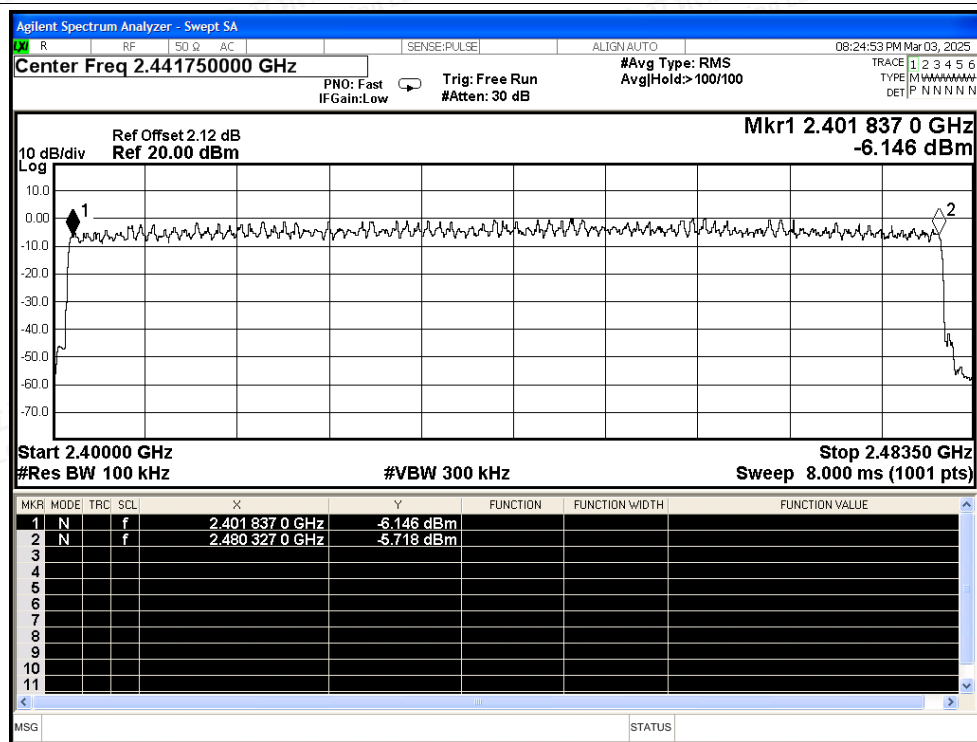


Test Graphs

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	-55.59	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.5	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.51	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.57	-20	Pass

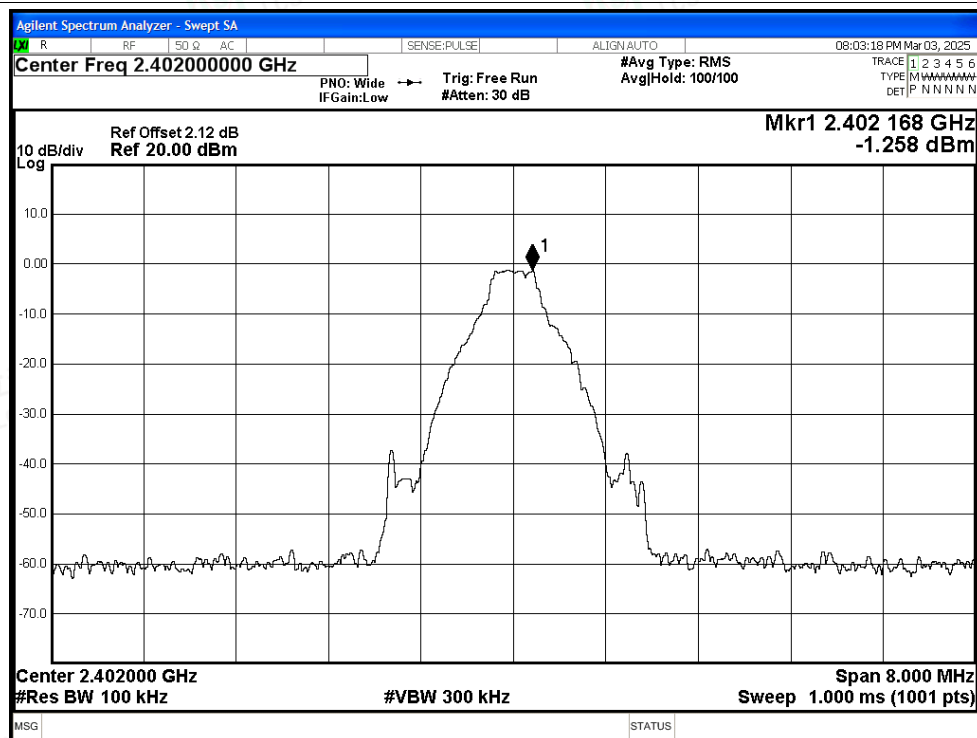


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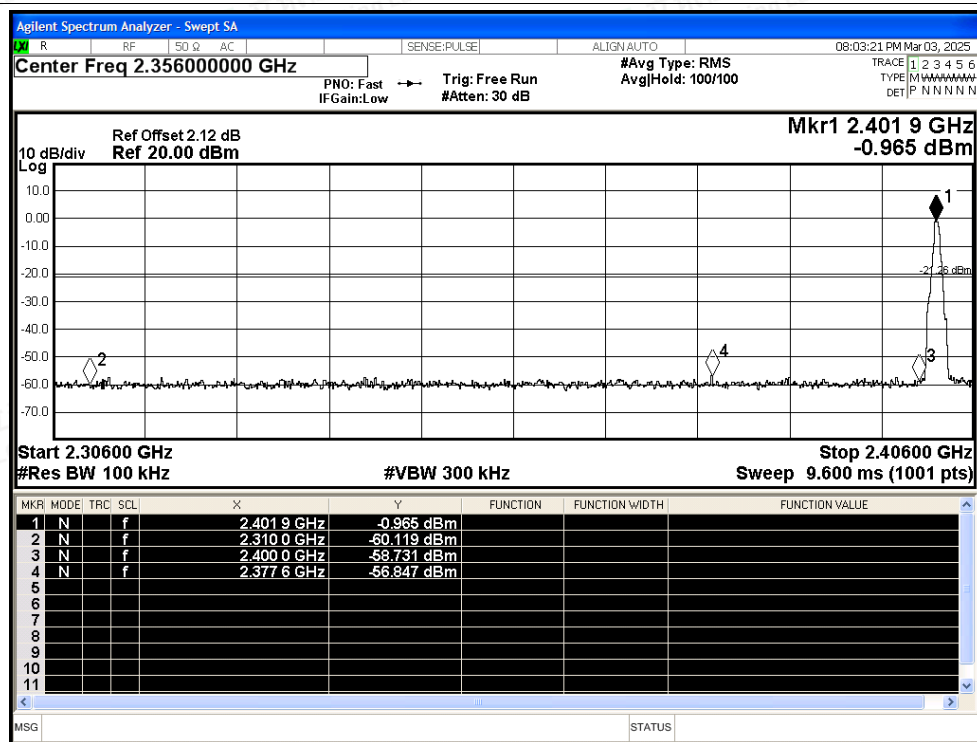


Test Graphs

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



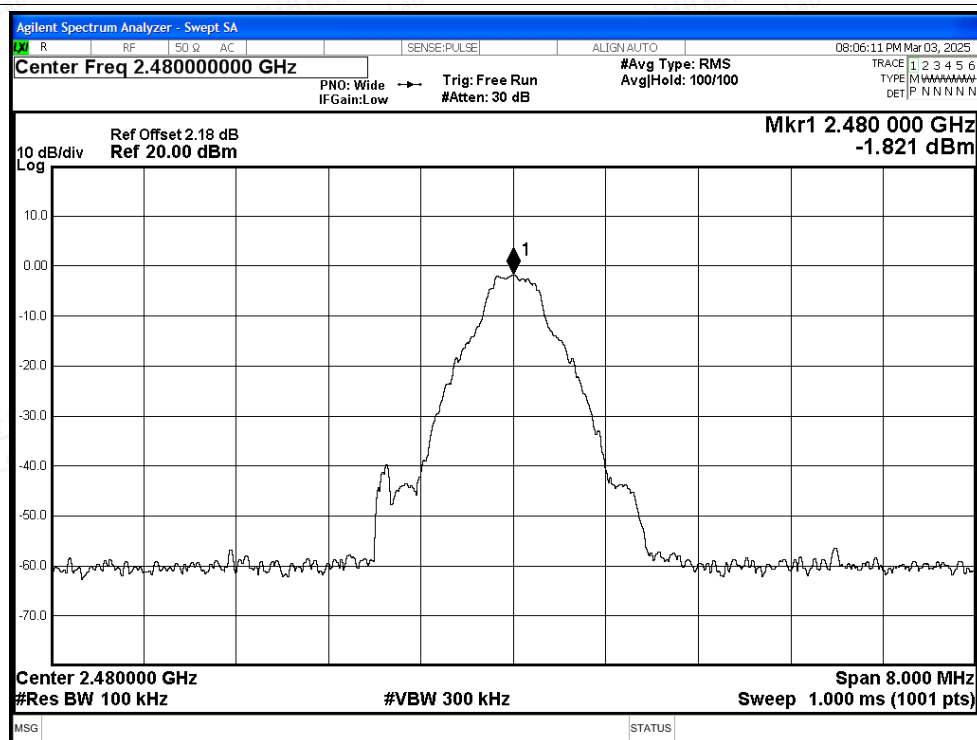
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



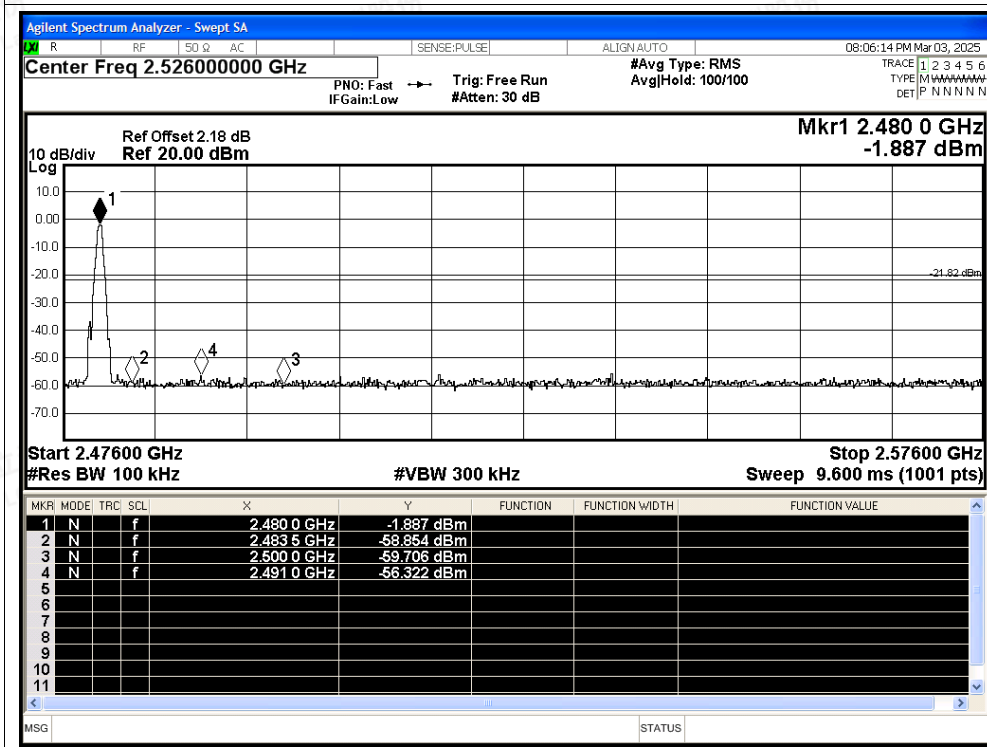
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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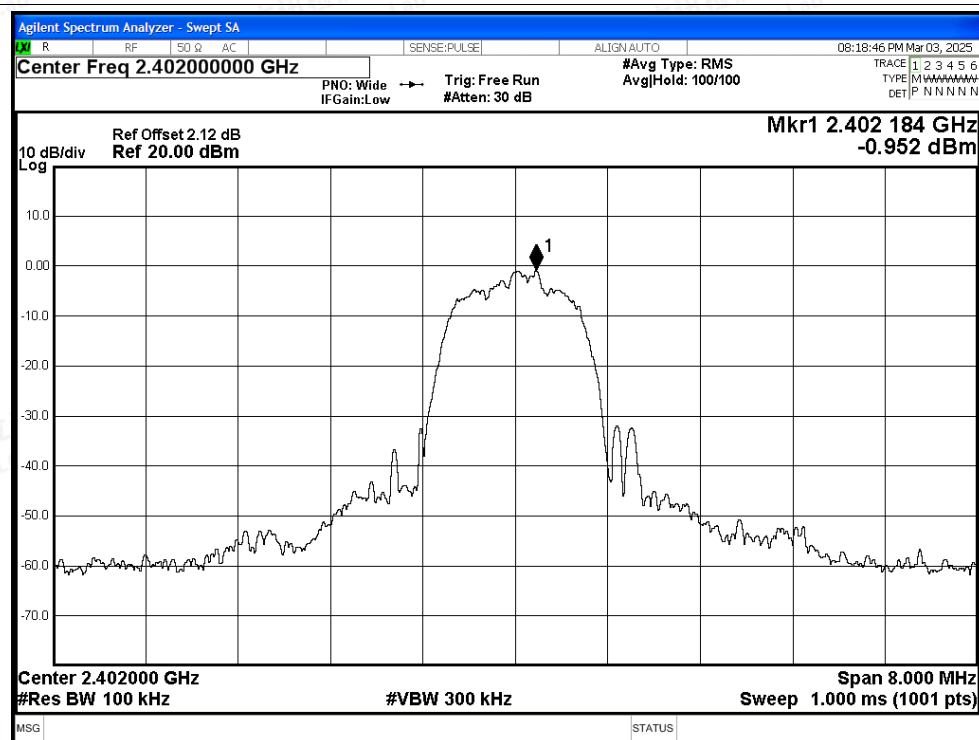
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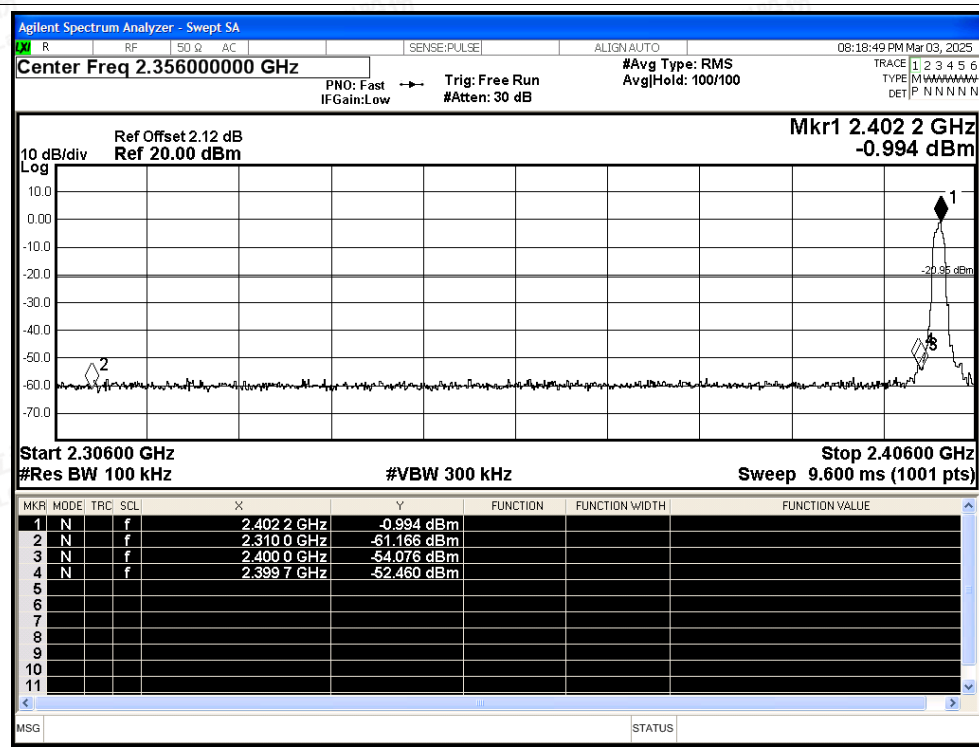
Scan code to check authenticity



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



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

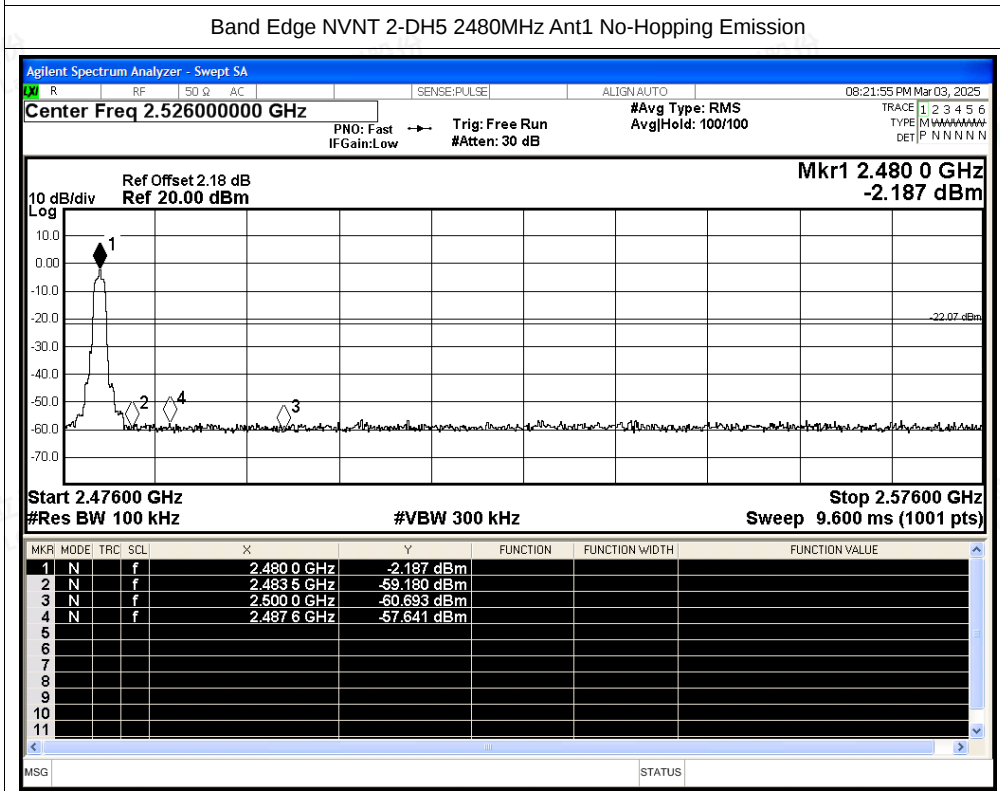
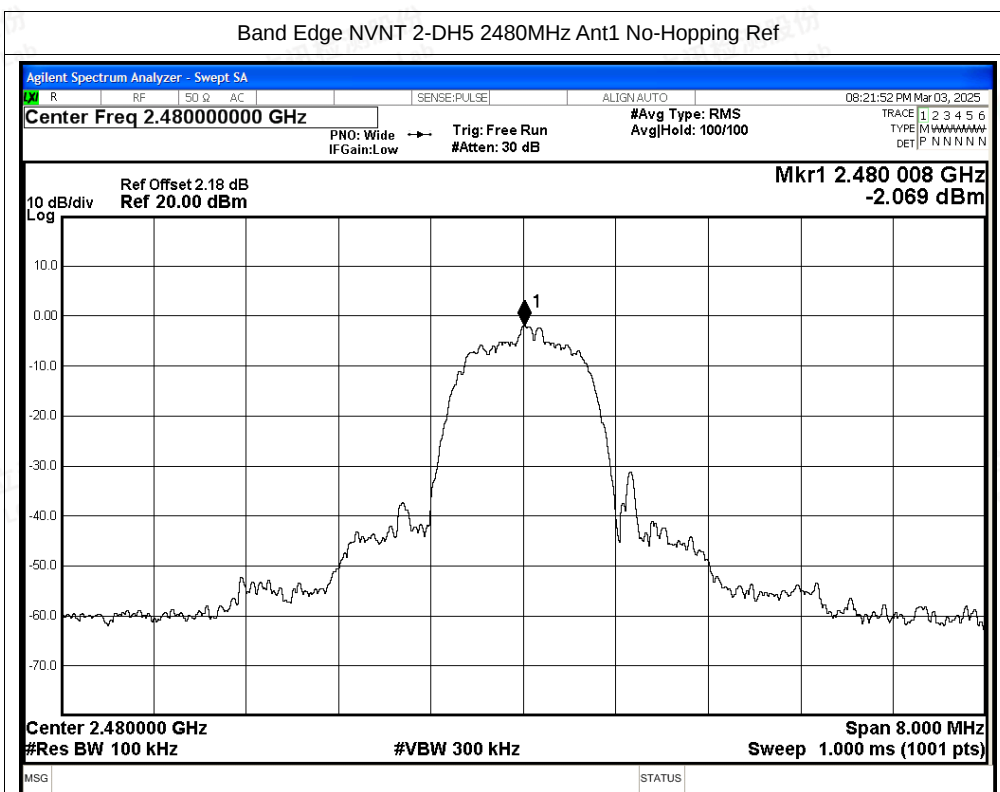


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**(Hopping)**

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.9	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.76	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.02	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.13	-20	Pass

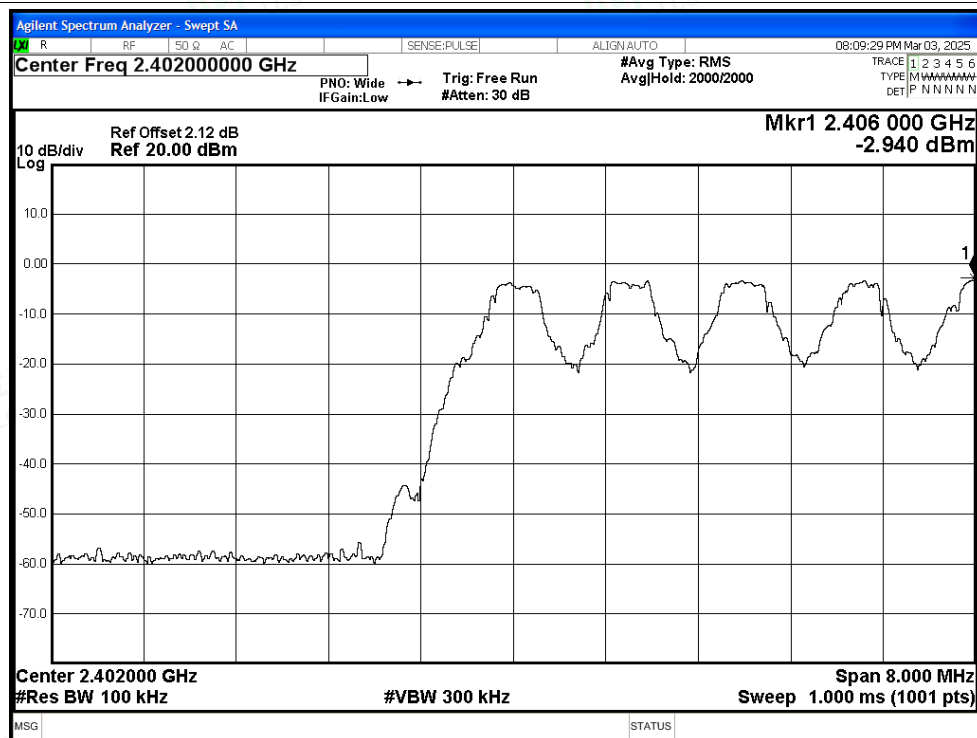


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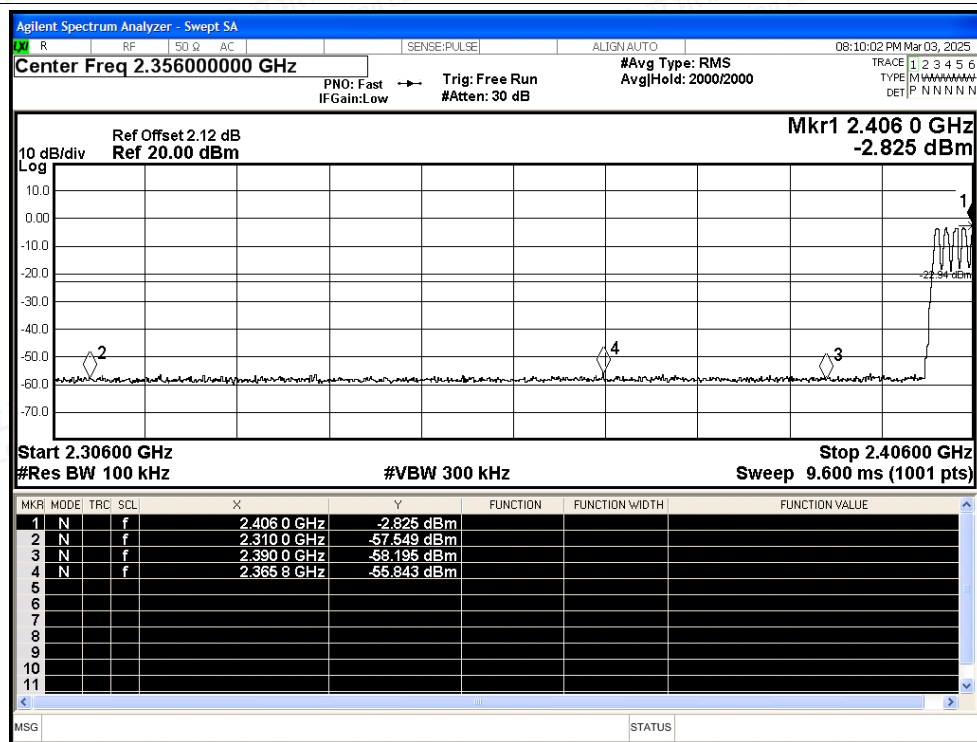


Test Graphs

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



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

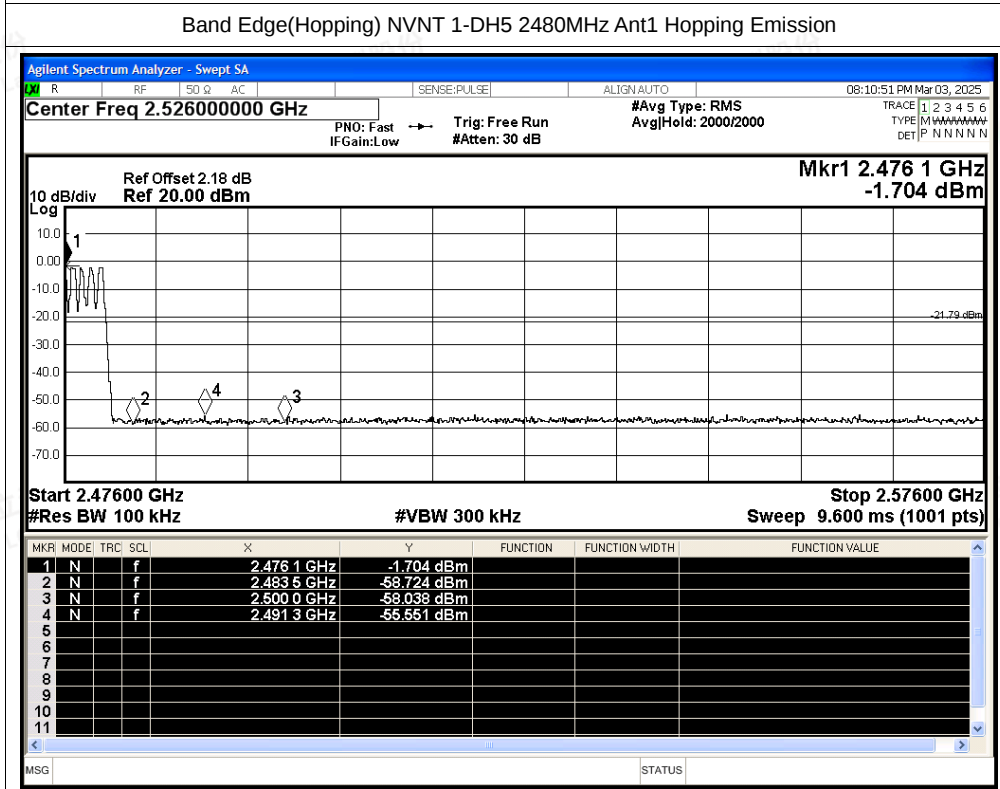
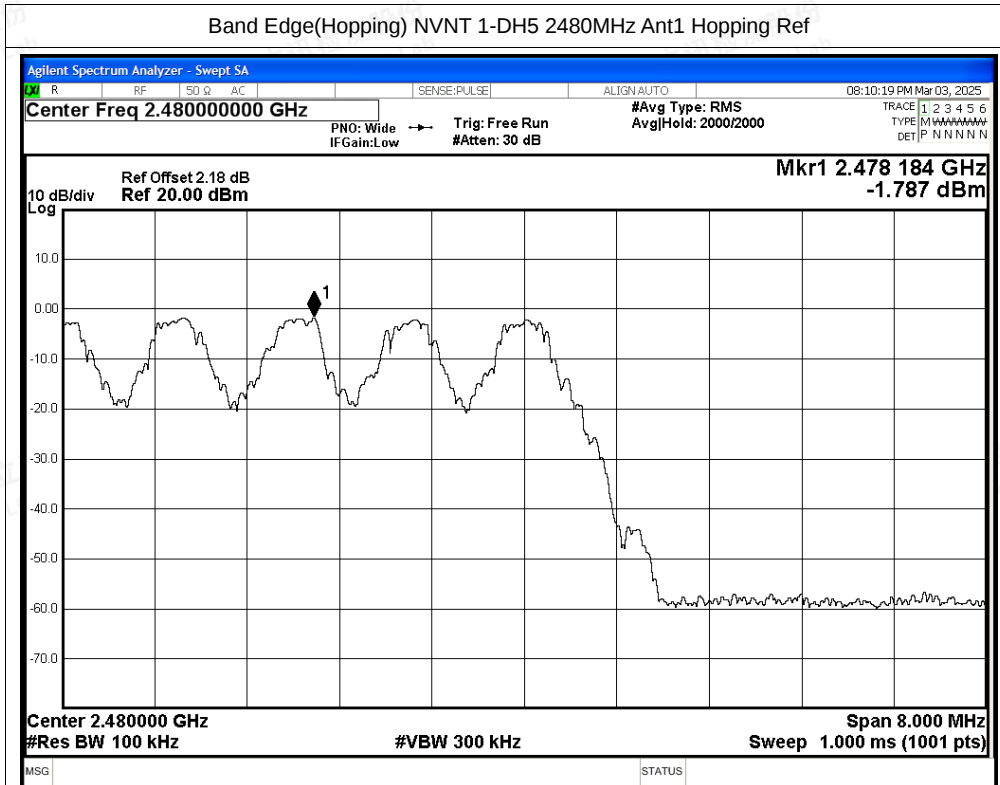


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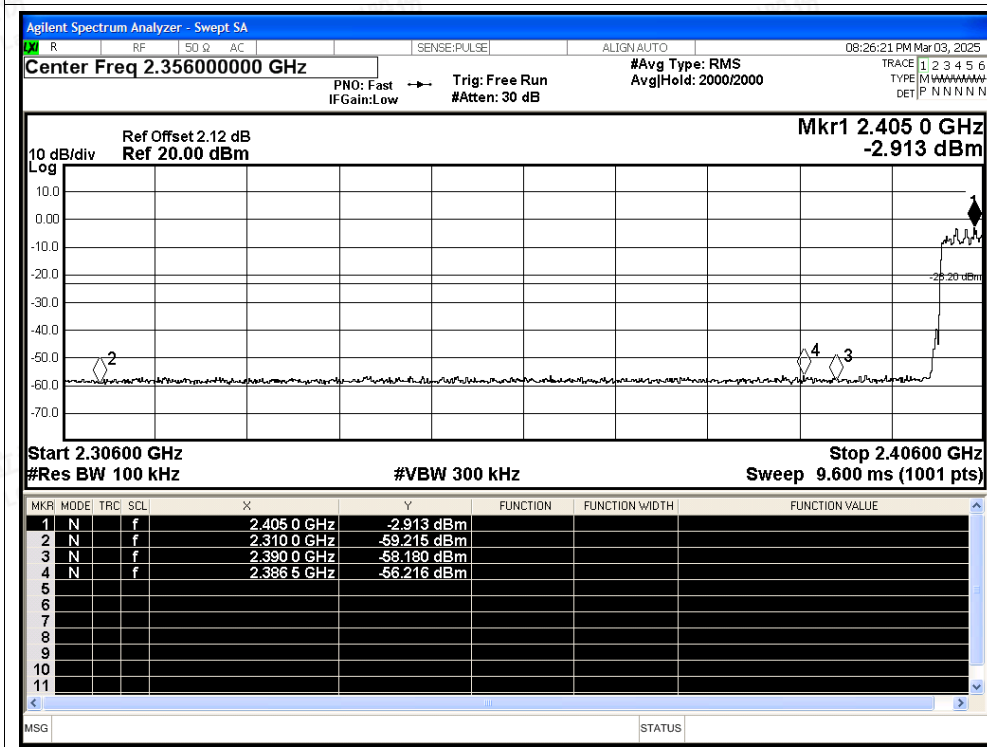




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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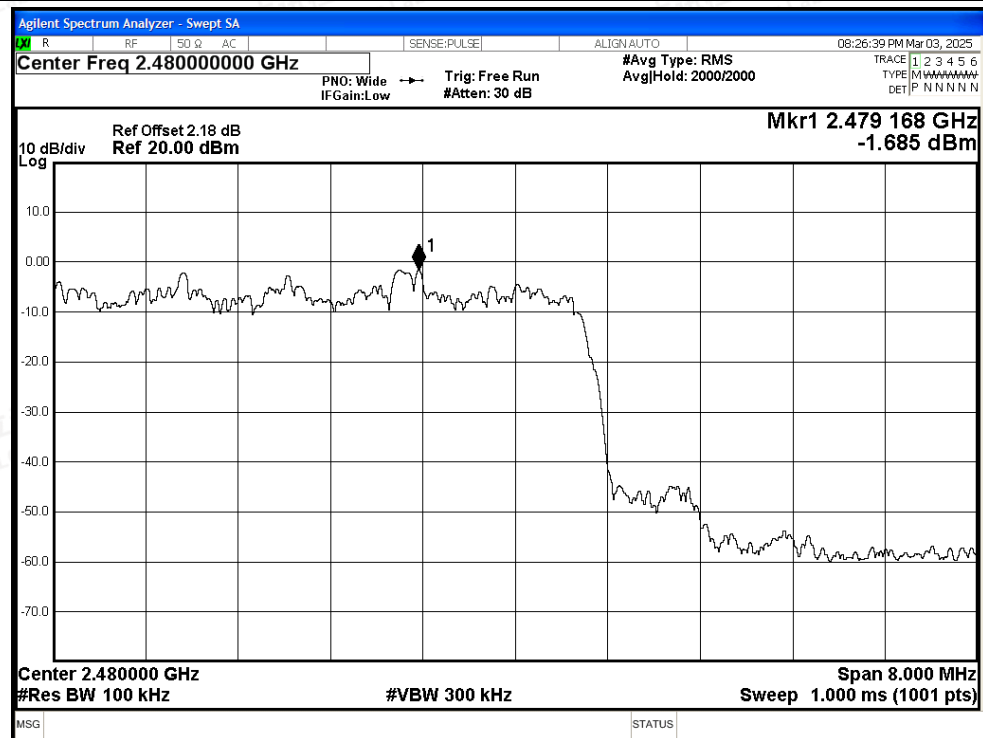
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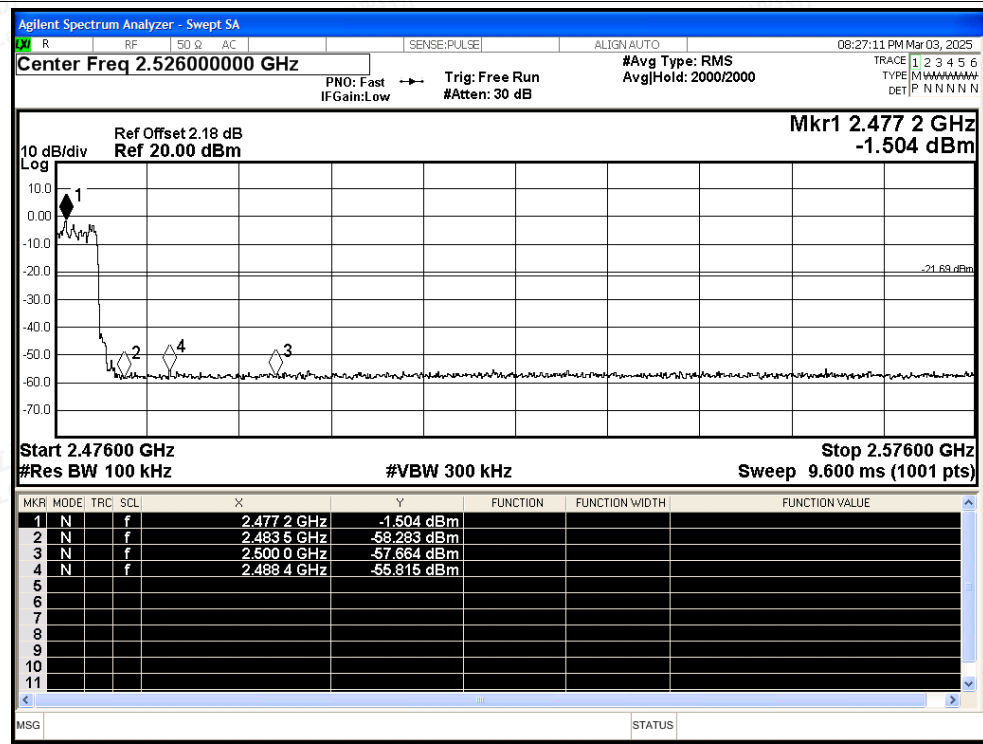
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-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	-53.57	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.66	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.61	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.84	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.34	-20	Pass
NVNT	2-DH5	2480	Ant1	-53.67	-20	Pass

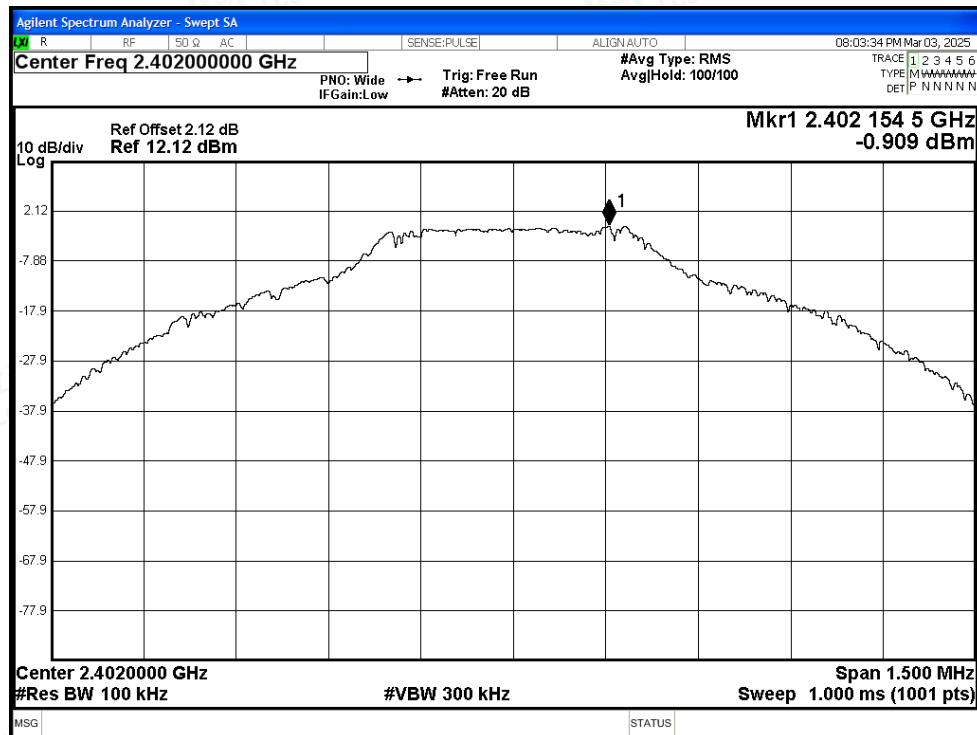


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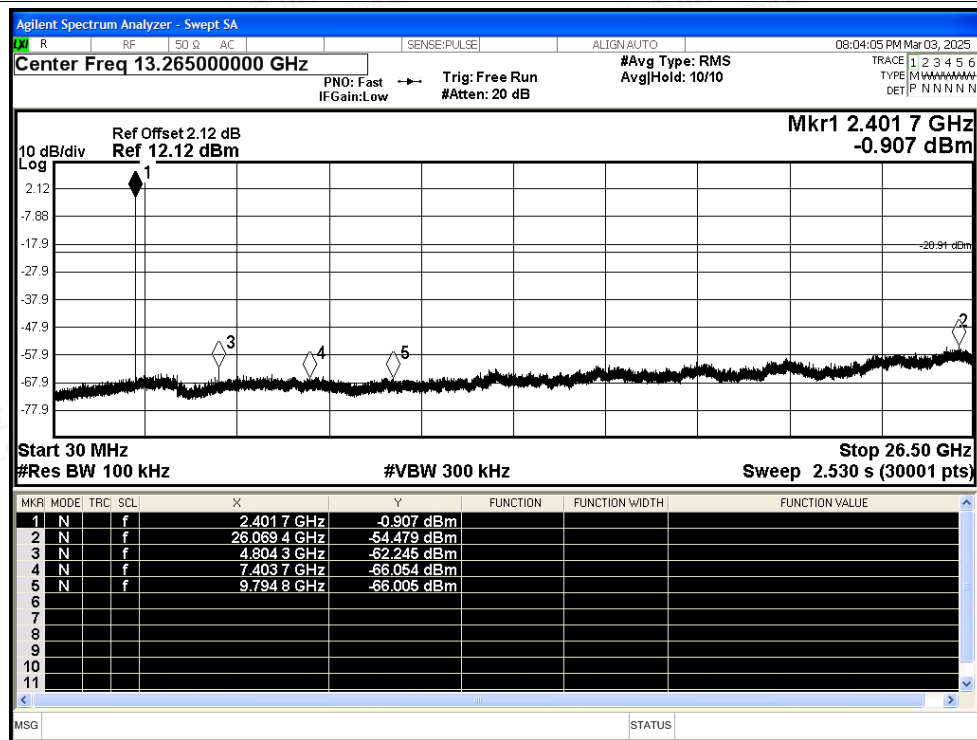


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

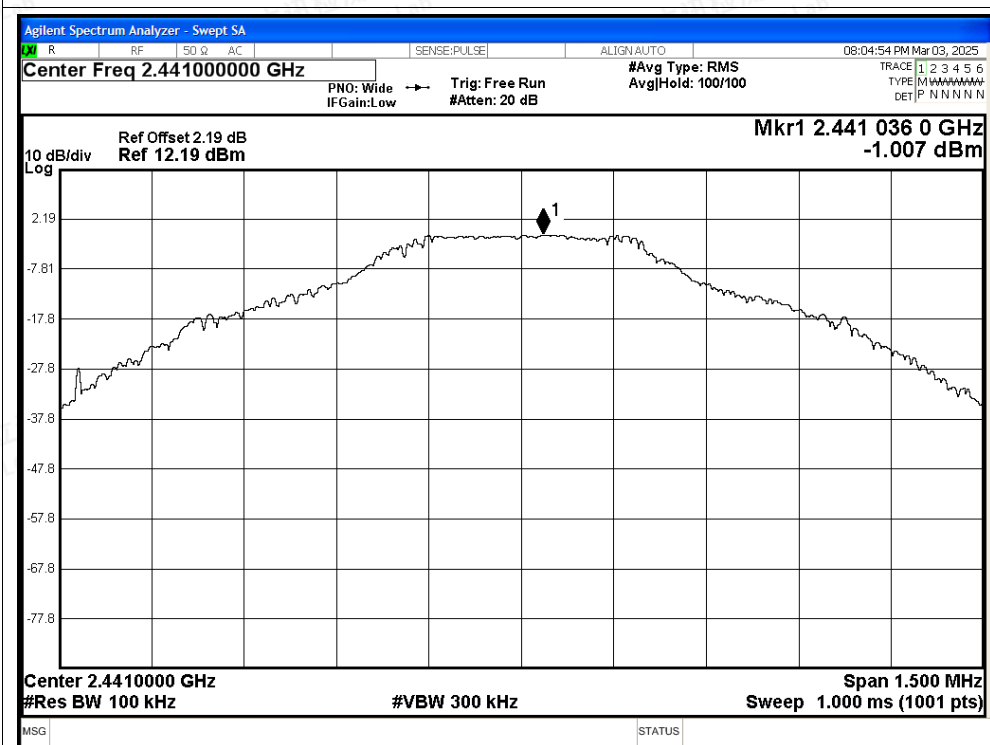


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

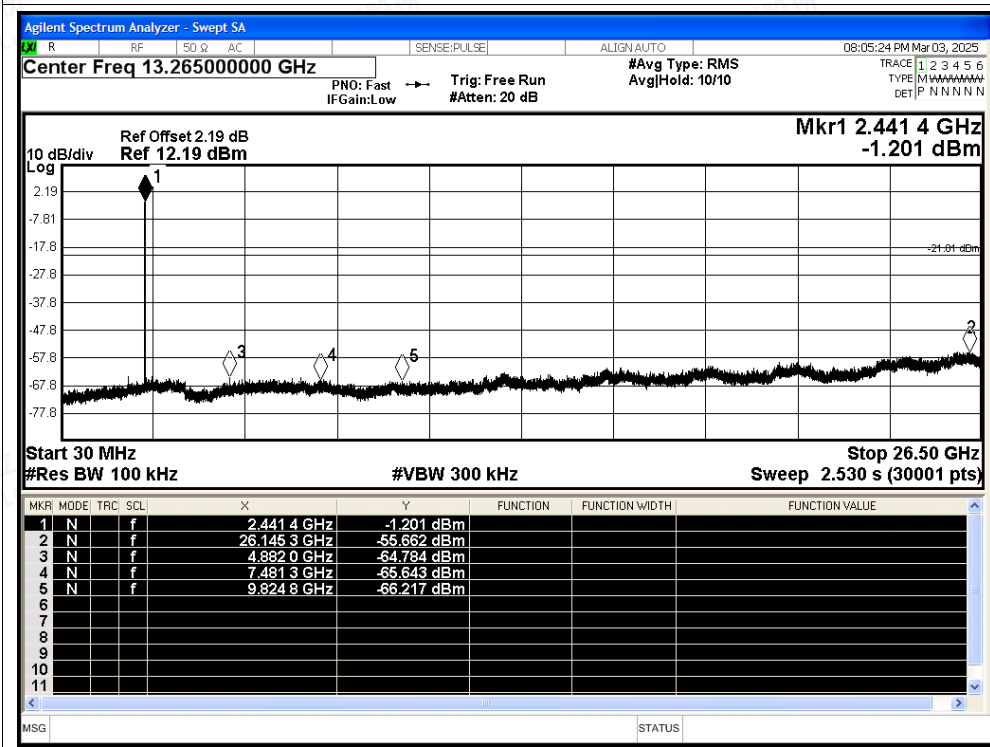




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

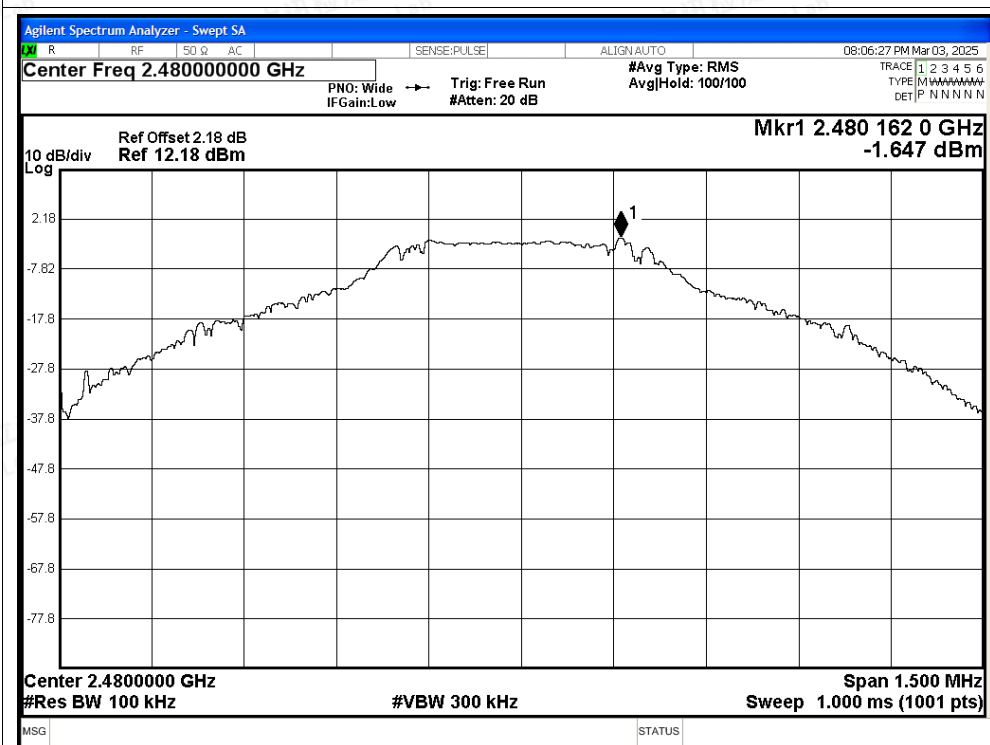


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

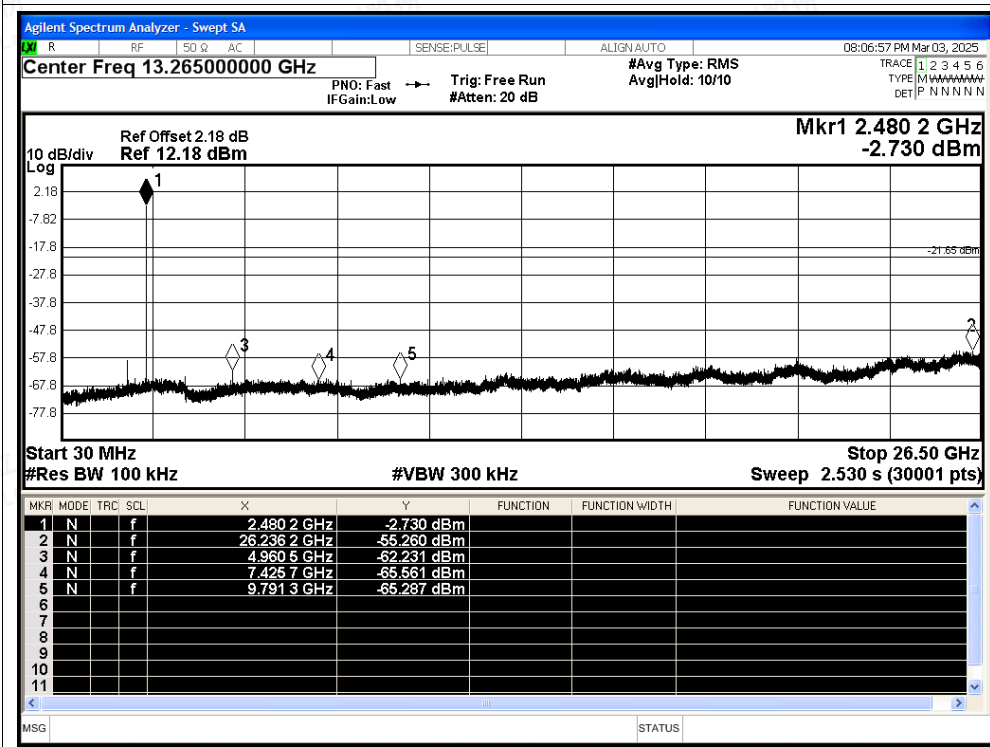




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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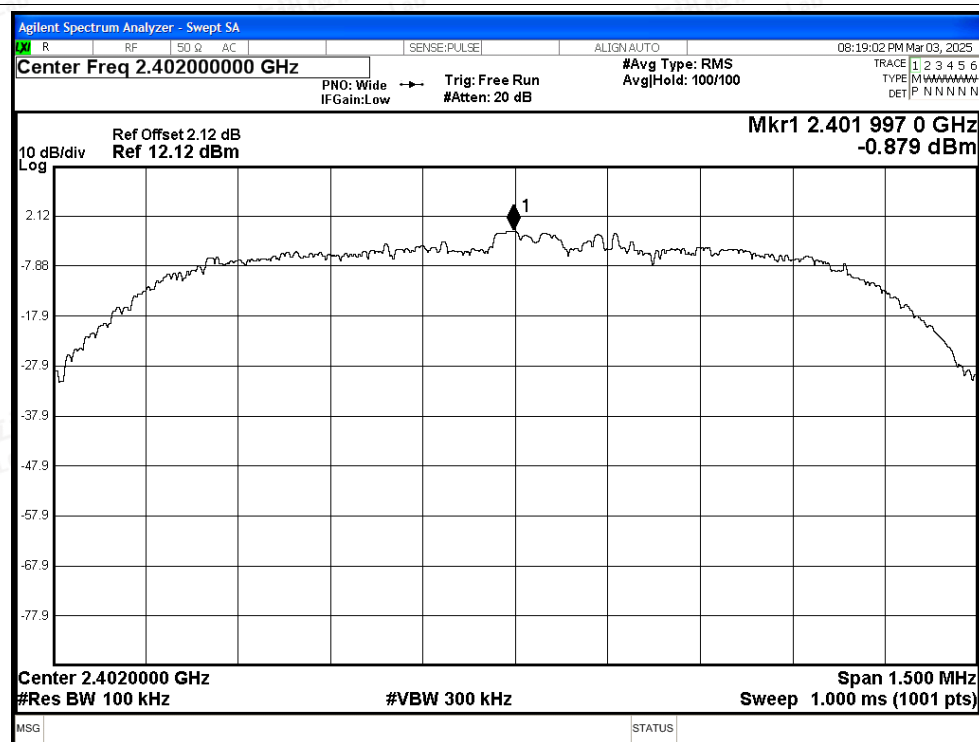
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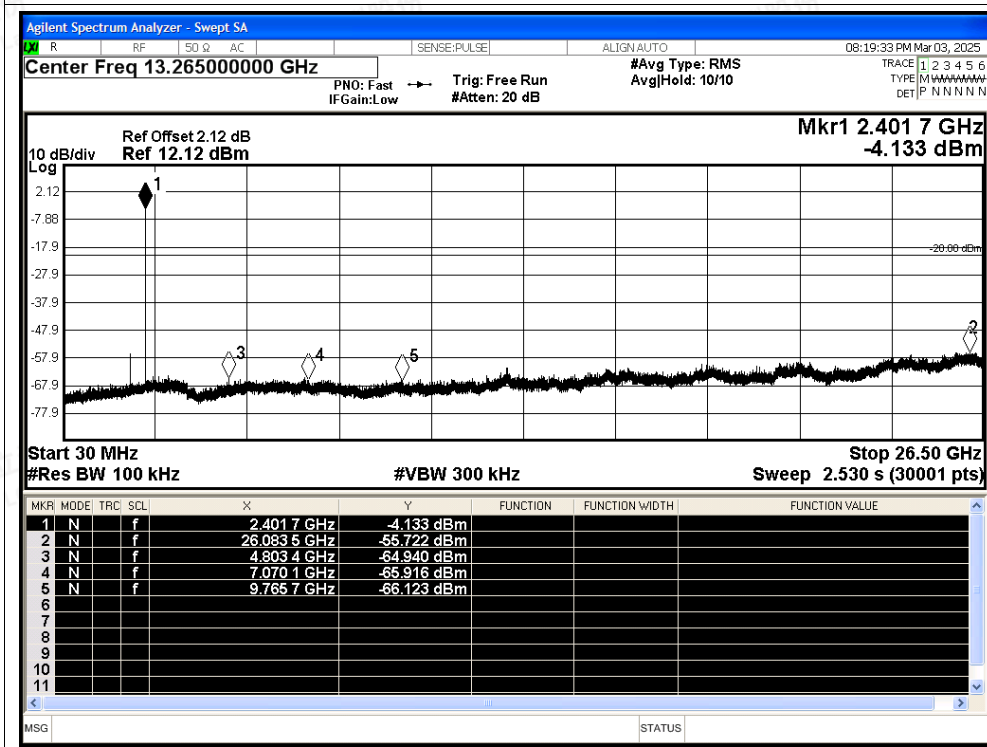
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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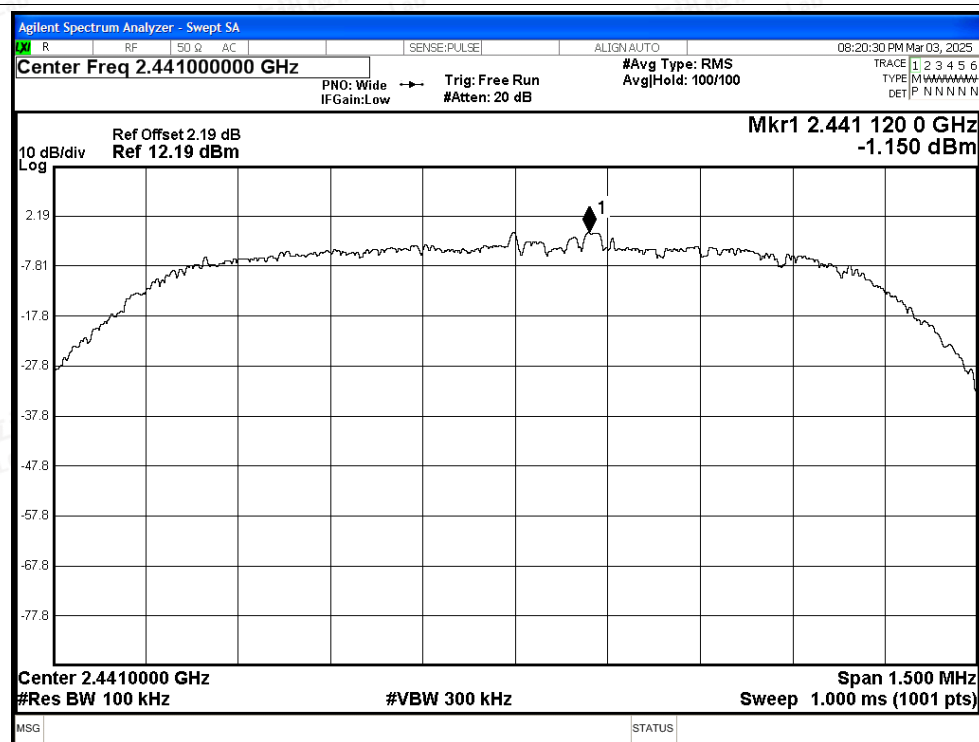
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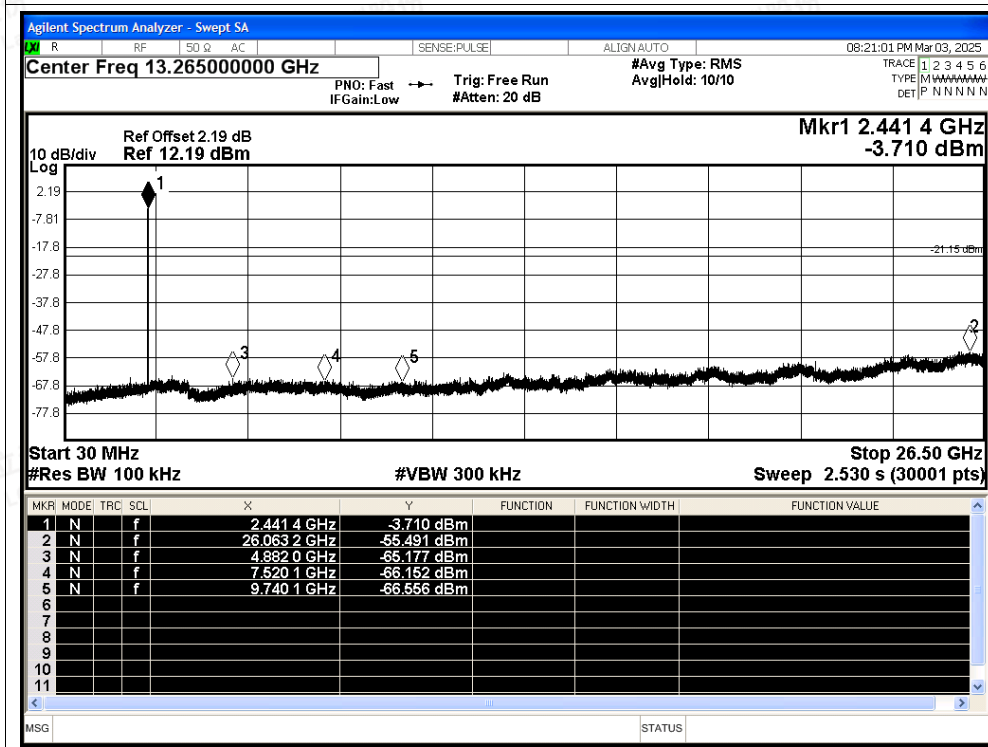
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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

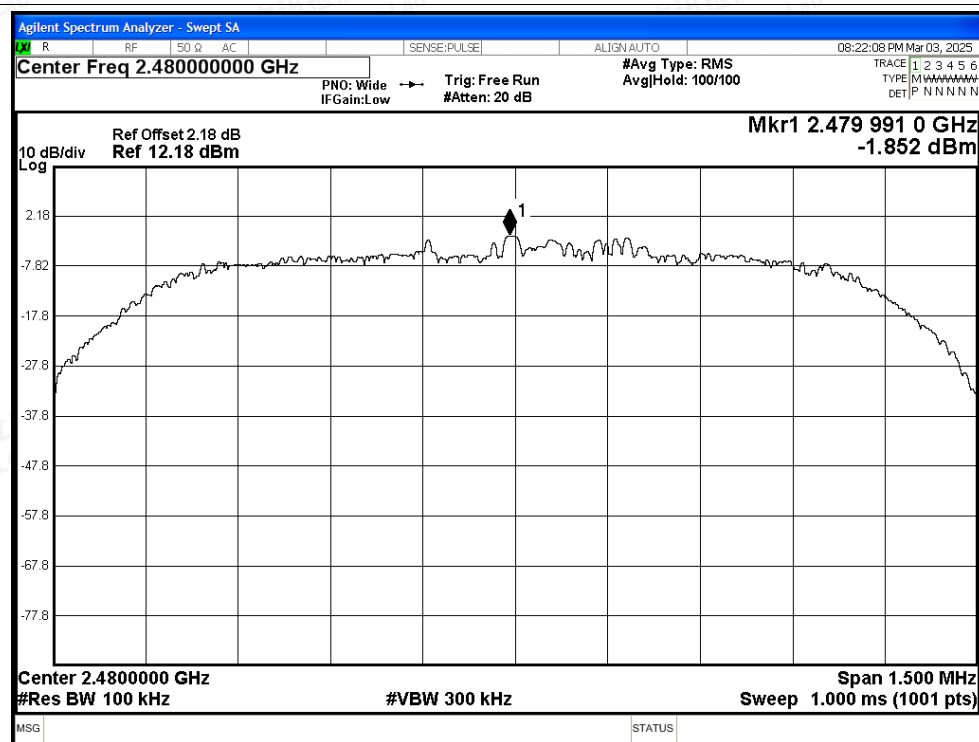


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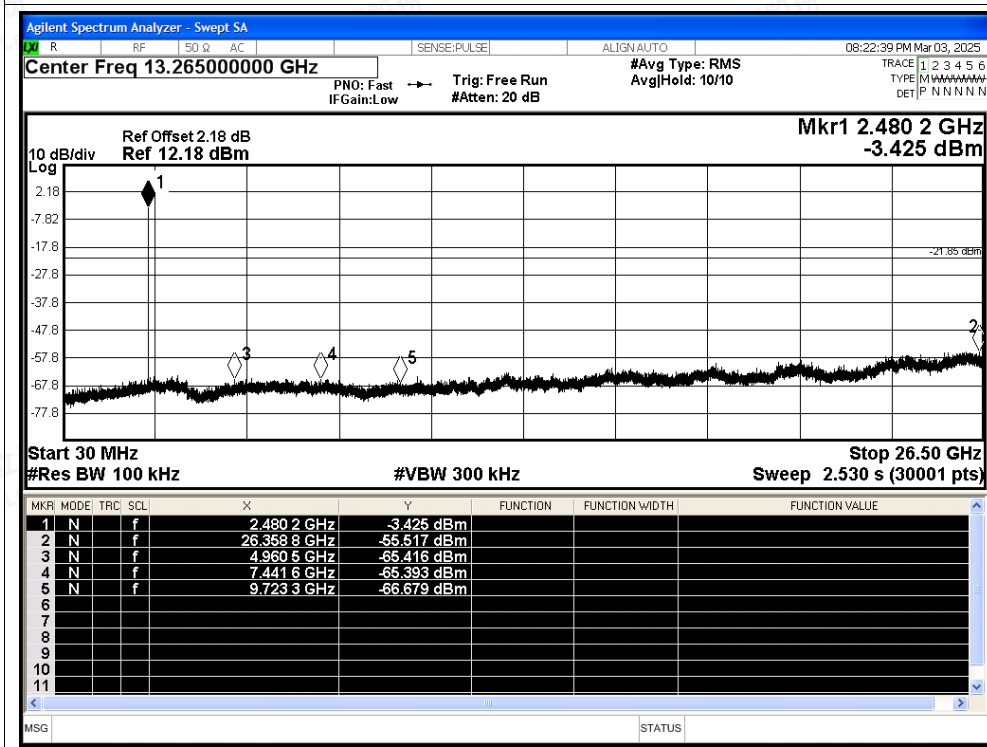




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-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	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

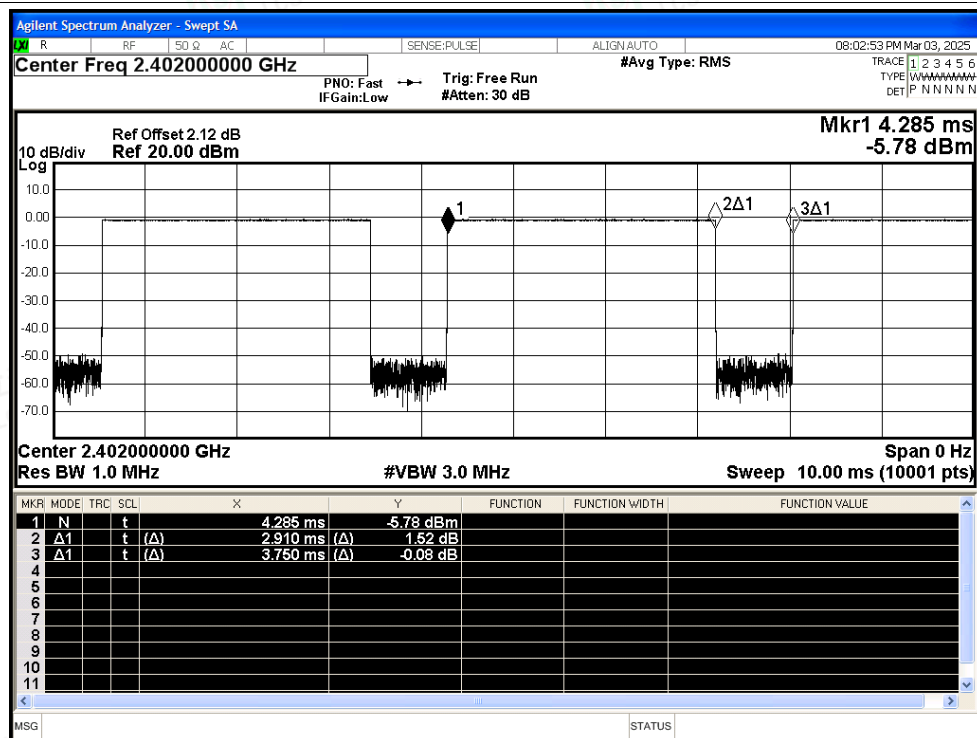


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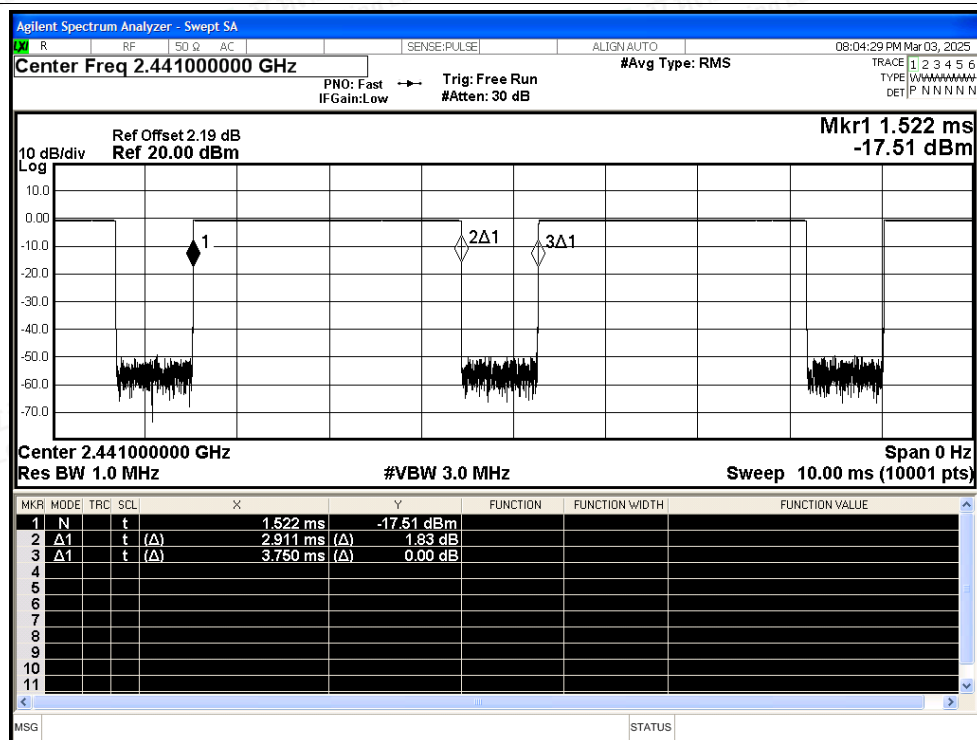


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

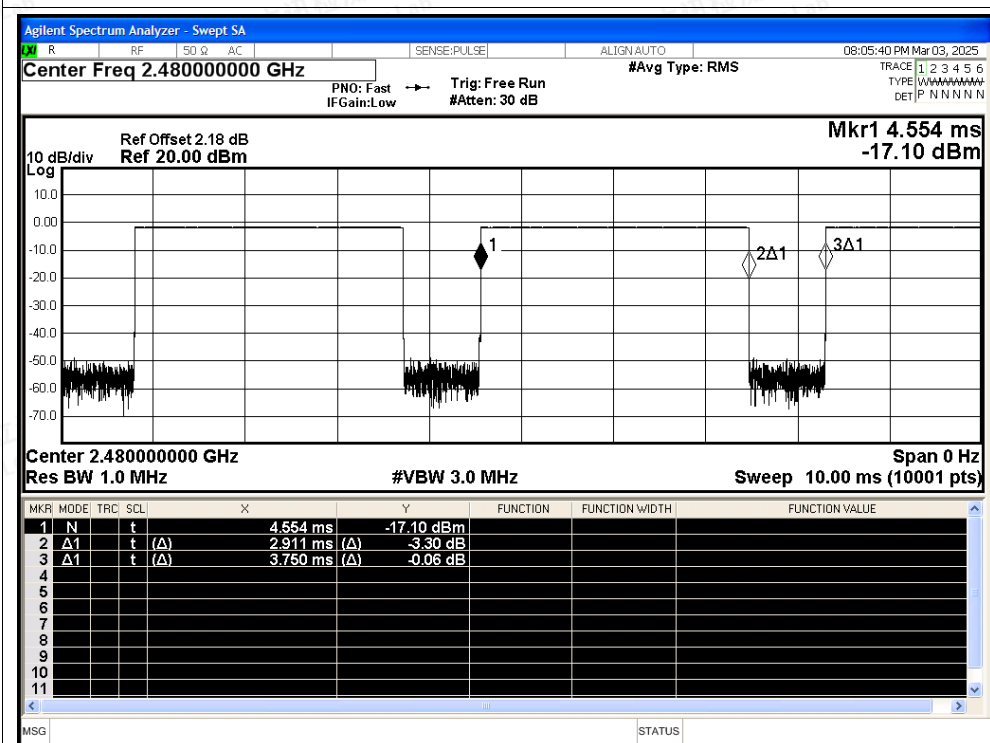


Duty Cycle NVNT 1-DH5 2441MHz Ant1

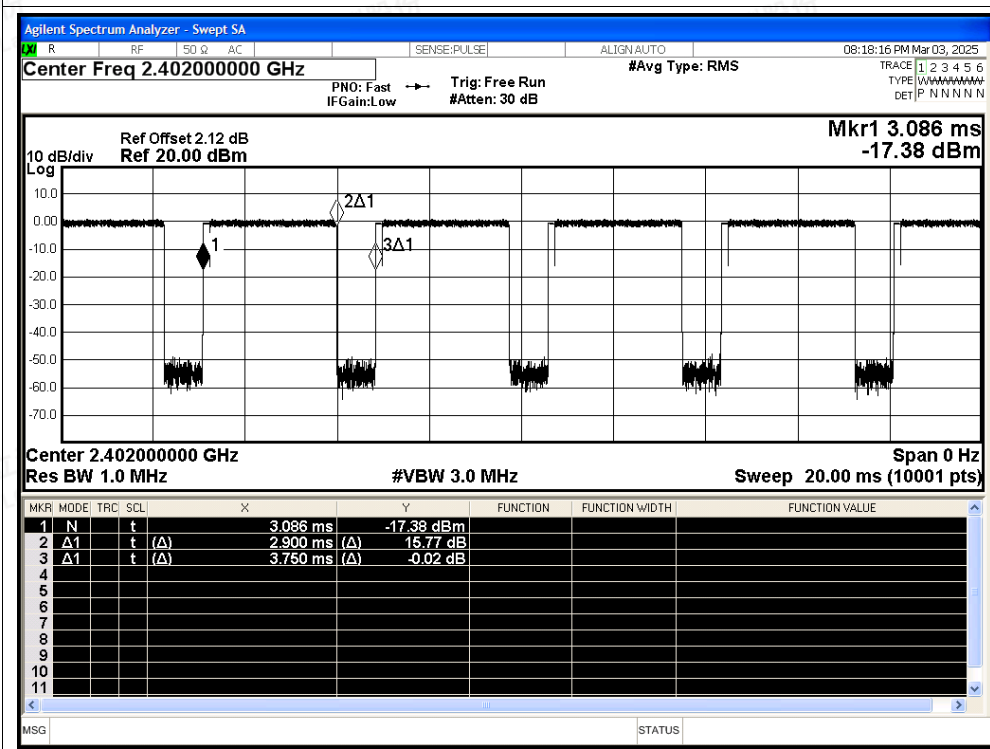




Duty Cycle NVNT 1-DH5 2480MHz Ant1

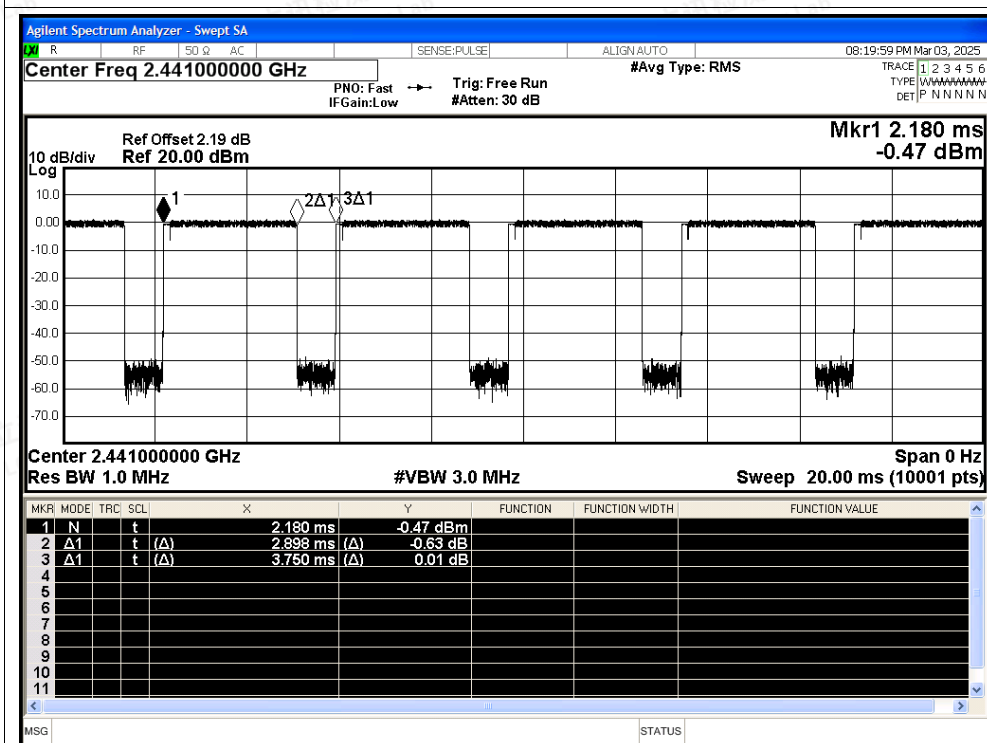


Duty Cycle NVNT 2-DH5 2402MHz Ant1

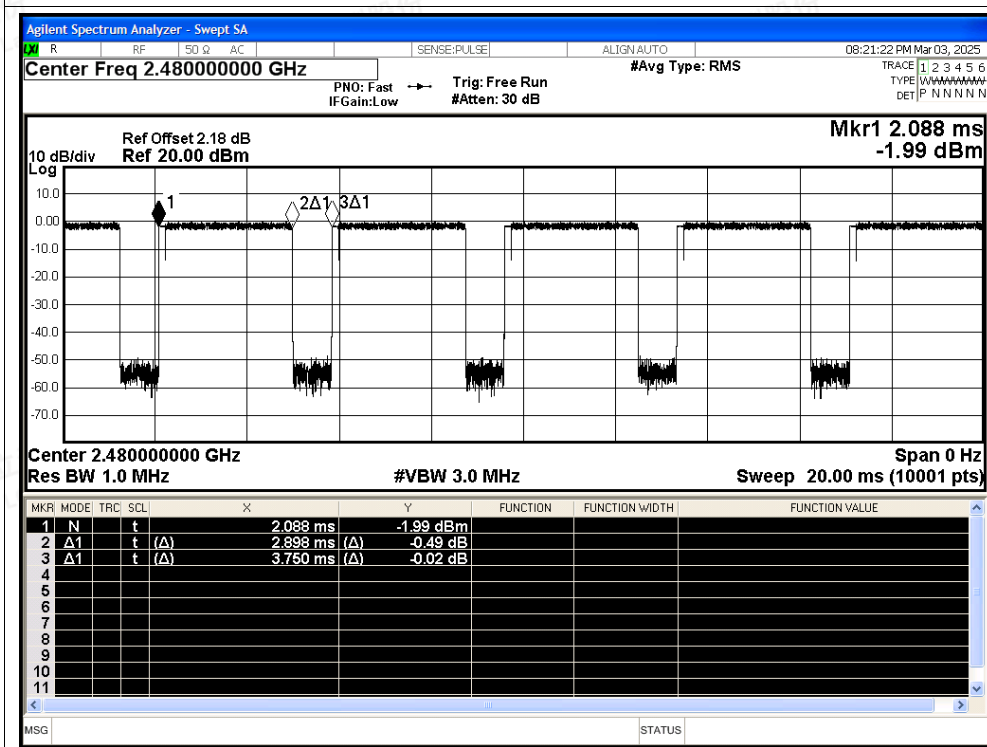




Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1





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	-49.74	2.09	-	47.61	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.45	2.09	1.1	40.00	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2327.856	-46.96	2.09	-	50.39	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.072	-57.4	2.09	1.1	41.05	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.39	2.09	-	46.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.22	2.09	1.1	40.23	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.64	2.09	-	46.71	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.77	2.09	1.1	40.68	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.152	-47.15	2.09	-	50.20	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2493.136	-57.17	2.09	1.1	41.28	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-47.2	2.09	-	50.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.03	2.09	1.1	40.42	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.83	2.09	-	46.52	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.27	2.09	1.12	40.20	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2379.408	-46.77	2.09	-	50.58	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2314.128	-57.63	2.09	1.12	40.84	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.84	2.09	-	47.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.05	2.09	1.12	40.42	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.47	2.09	-	47.88	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.72	2.09	1.12	40.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.056	-47.03	2.09	-	50.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.68	-57.08	2.09	1.12	41.39	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.99	2.09	-	48.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.48	2.09	1.12	40.99	Average	54	Pass

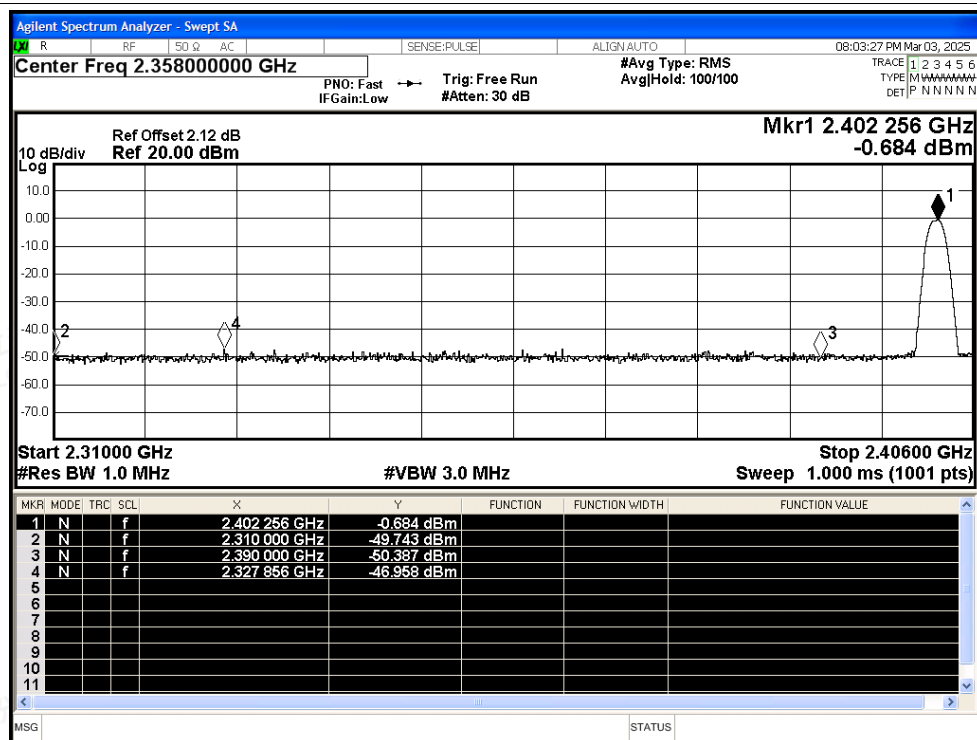


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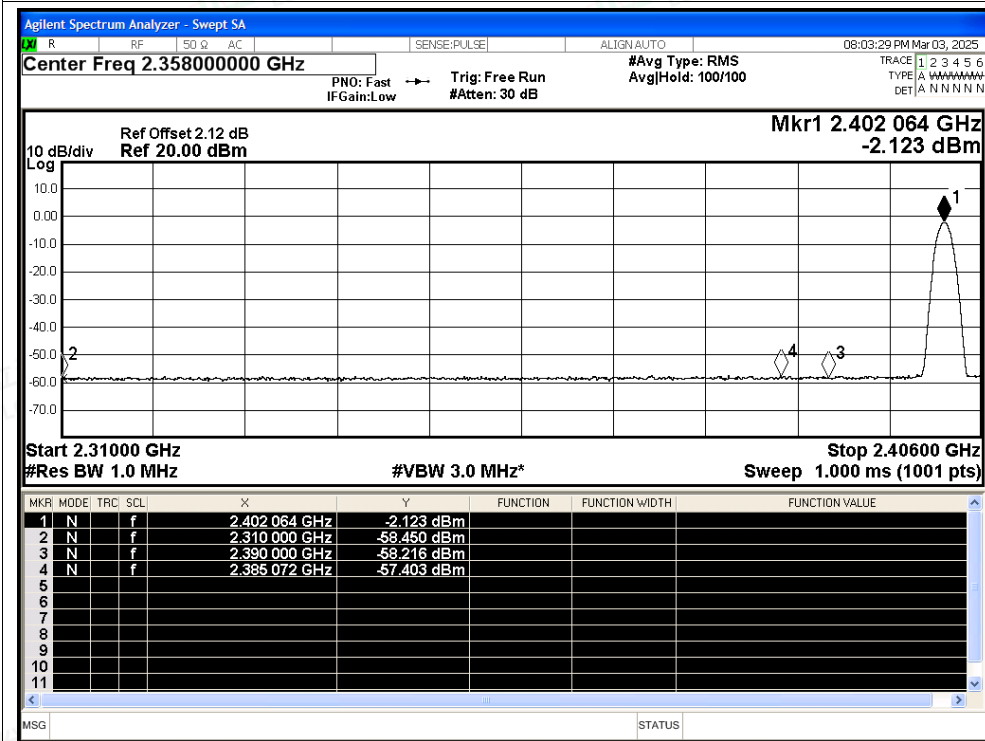


Test Graphs

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



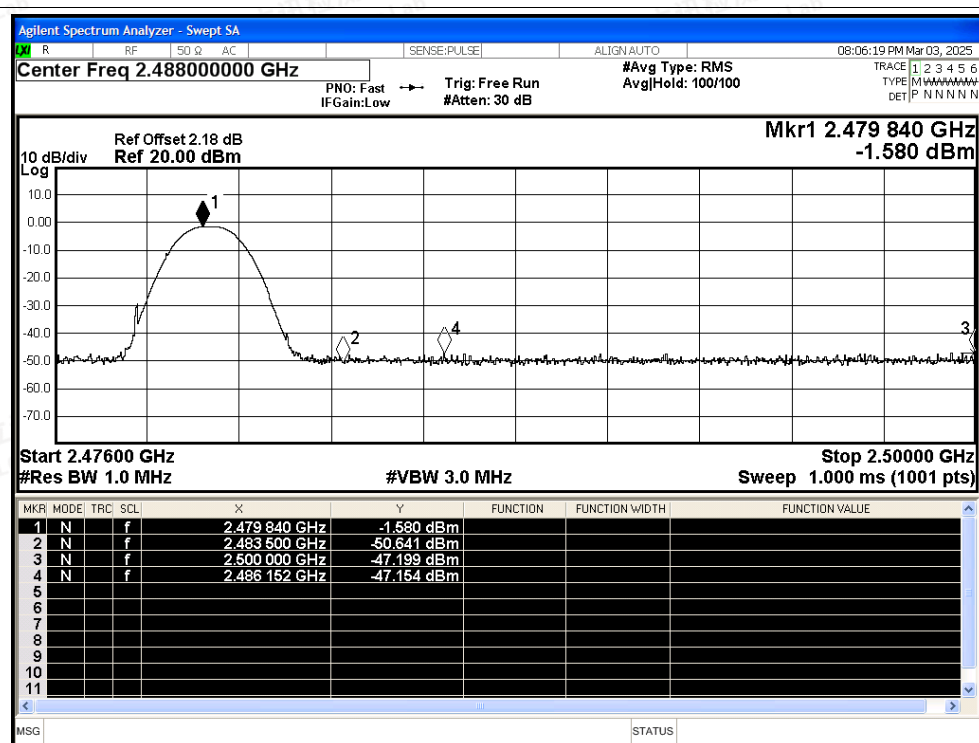
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



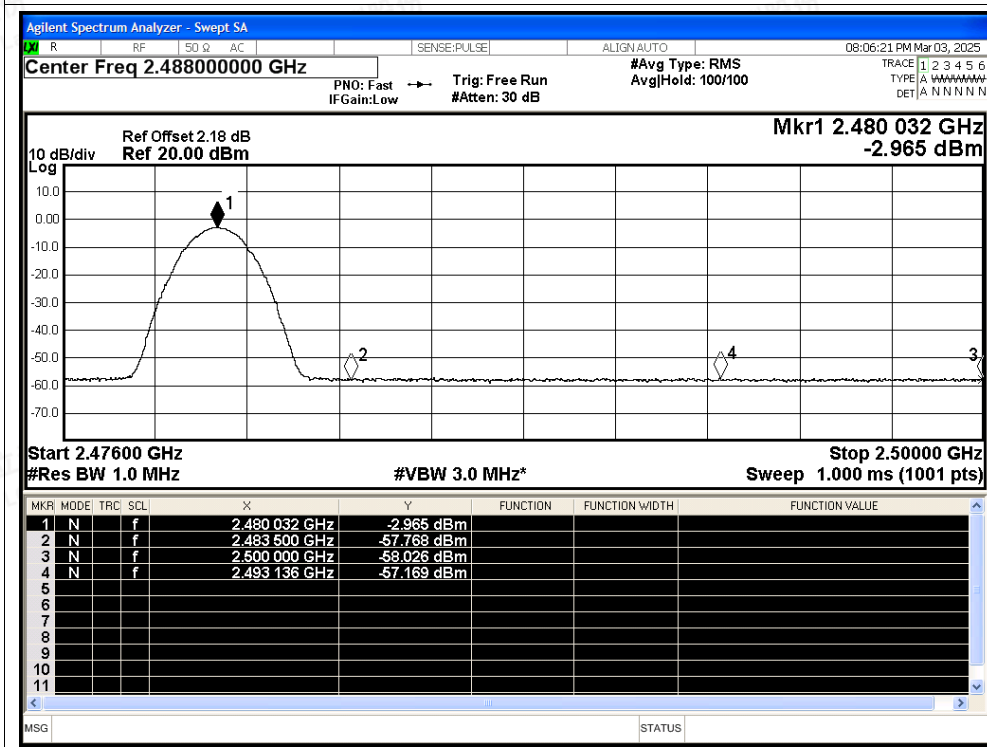
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

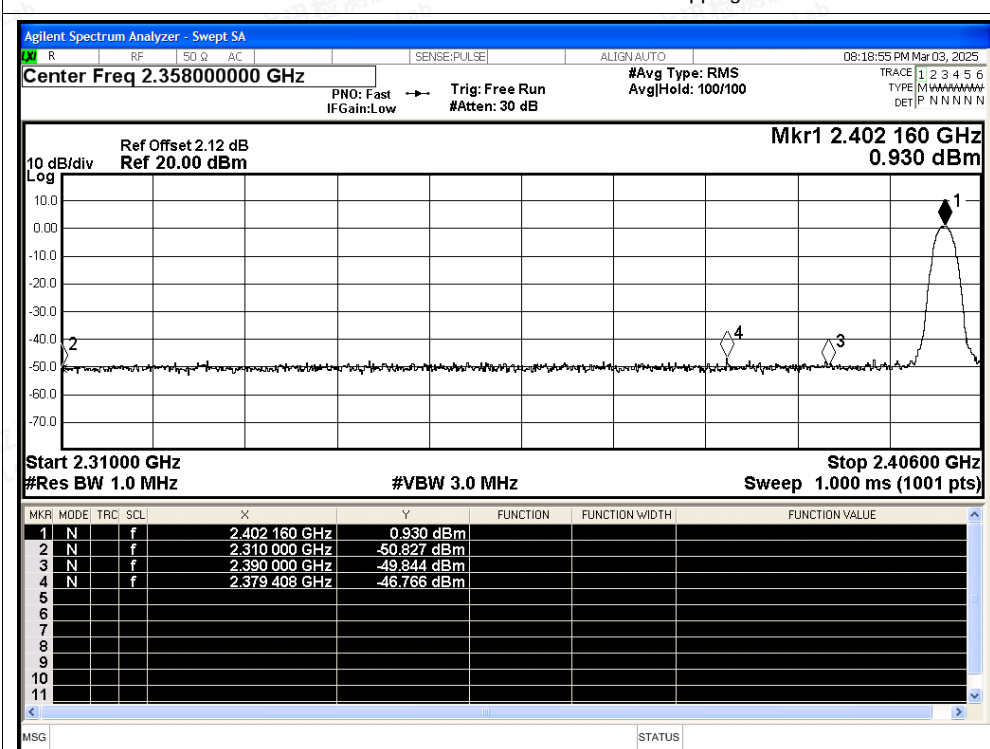


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

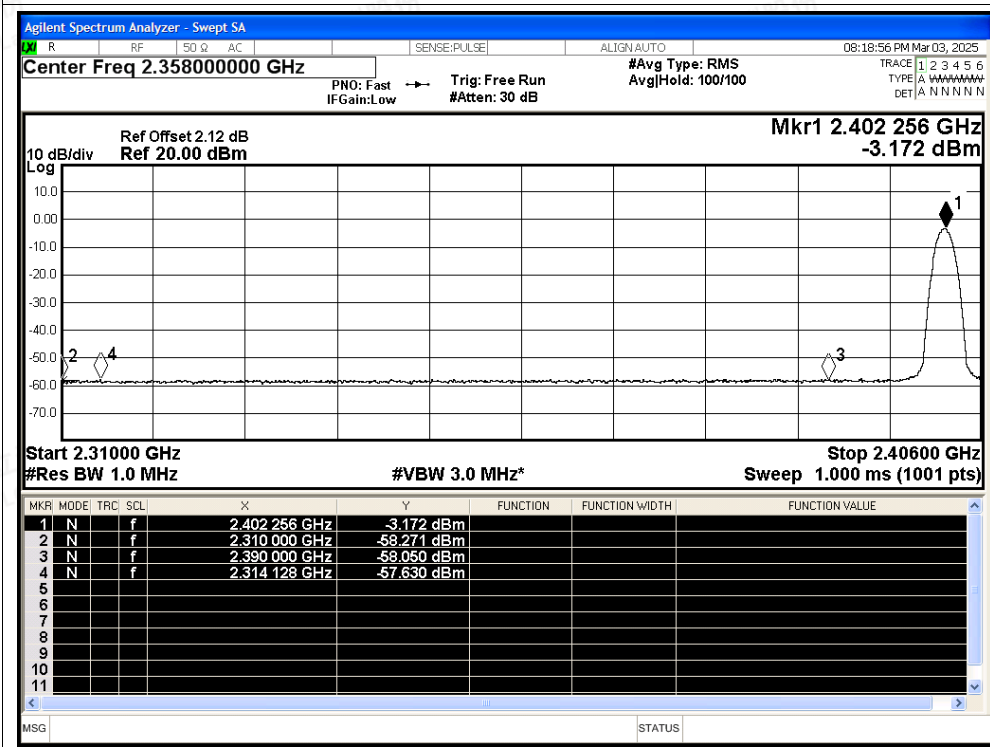




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

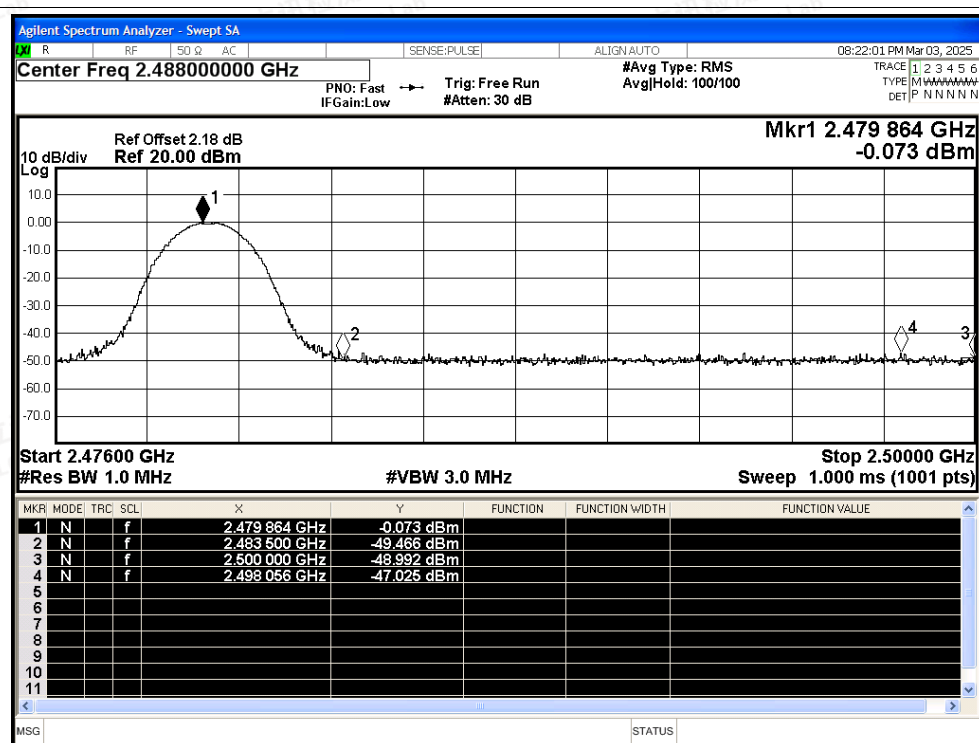


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

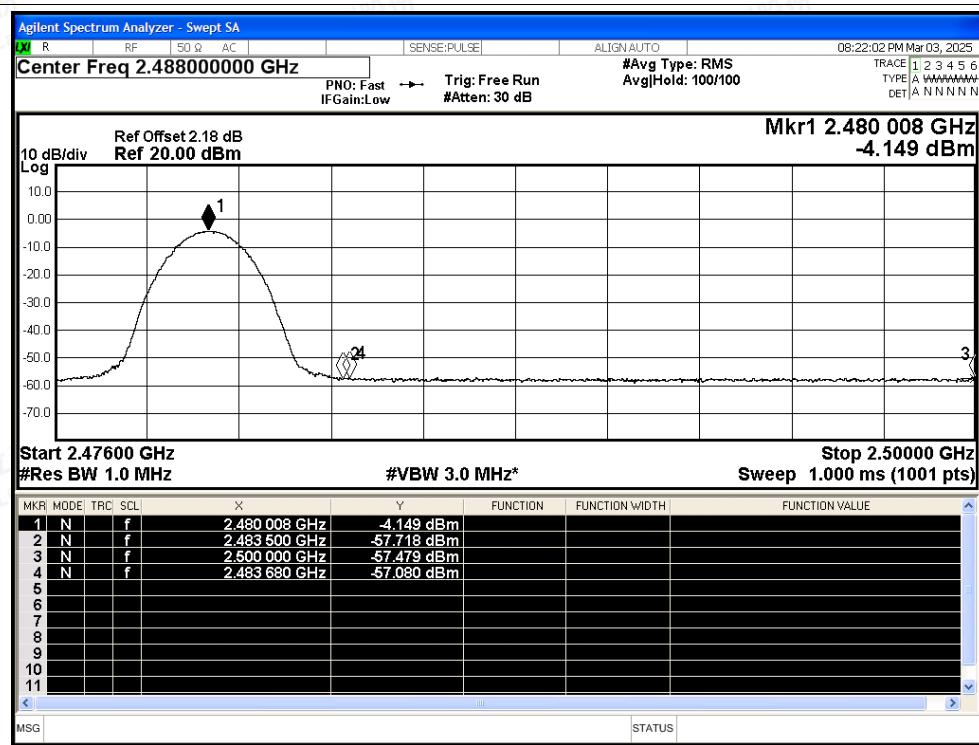




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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