



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TURNTABLE

Test Model: CR7501A

Environmental Conditions

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





A.1 -20dB Bandwidth

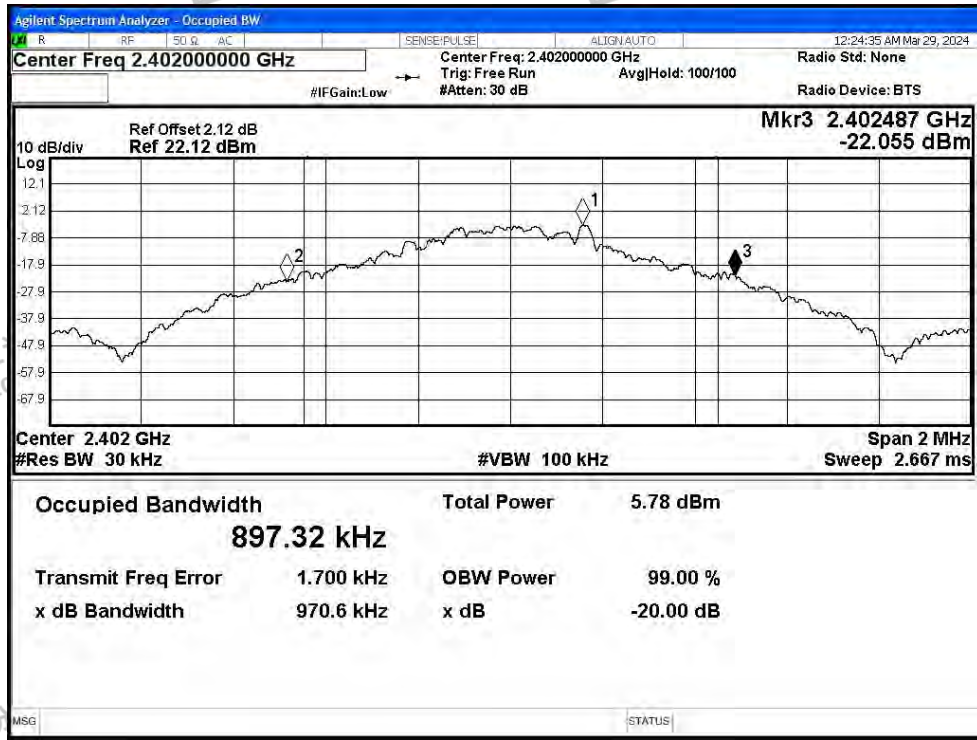
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.971	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.994	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.998	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.289	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.279	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.321	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.227	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.28	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.299	N/A	Pass



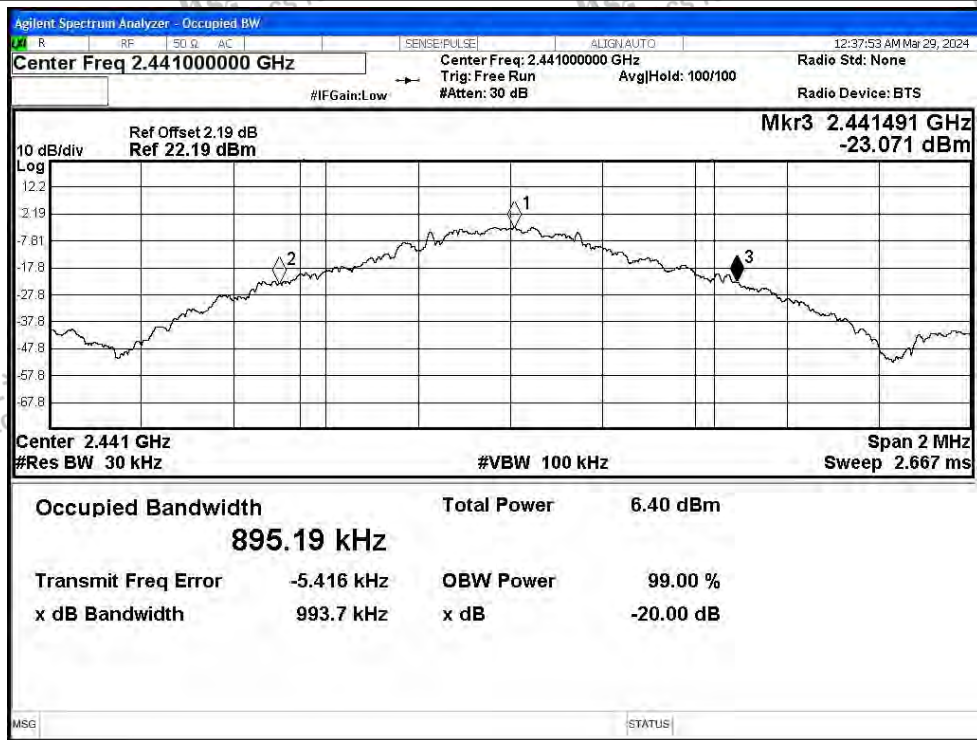


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

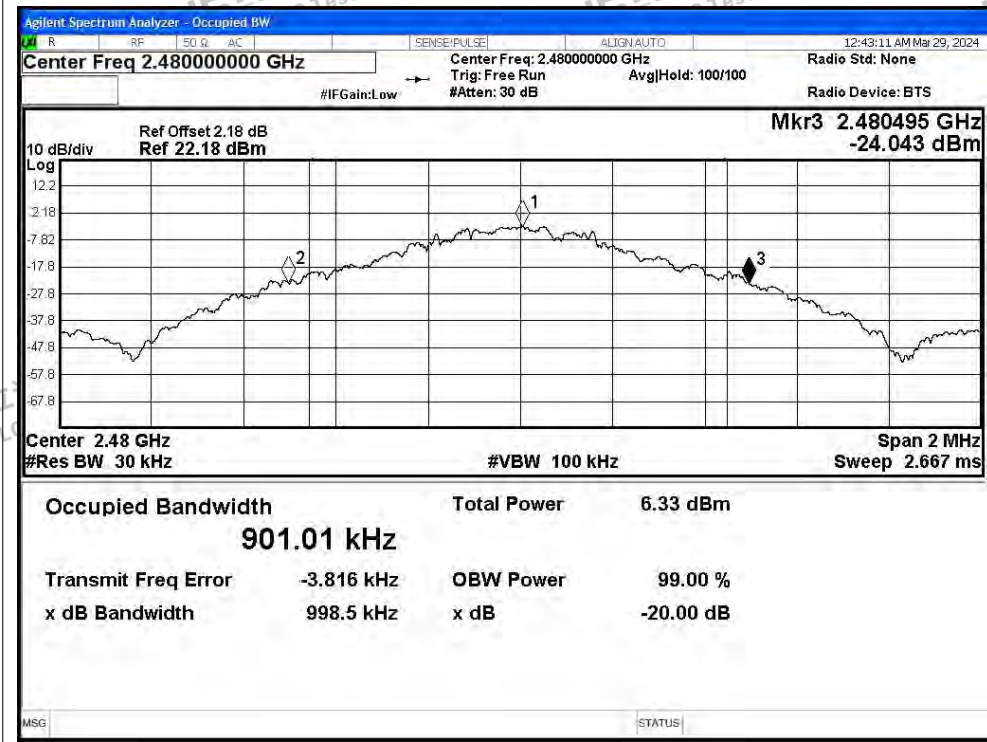


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

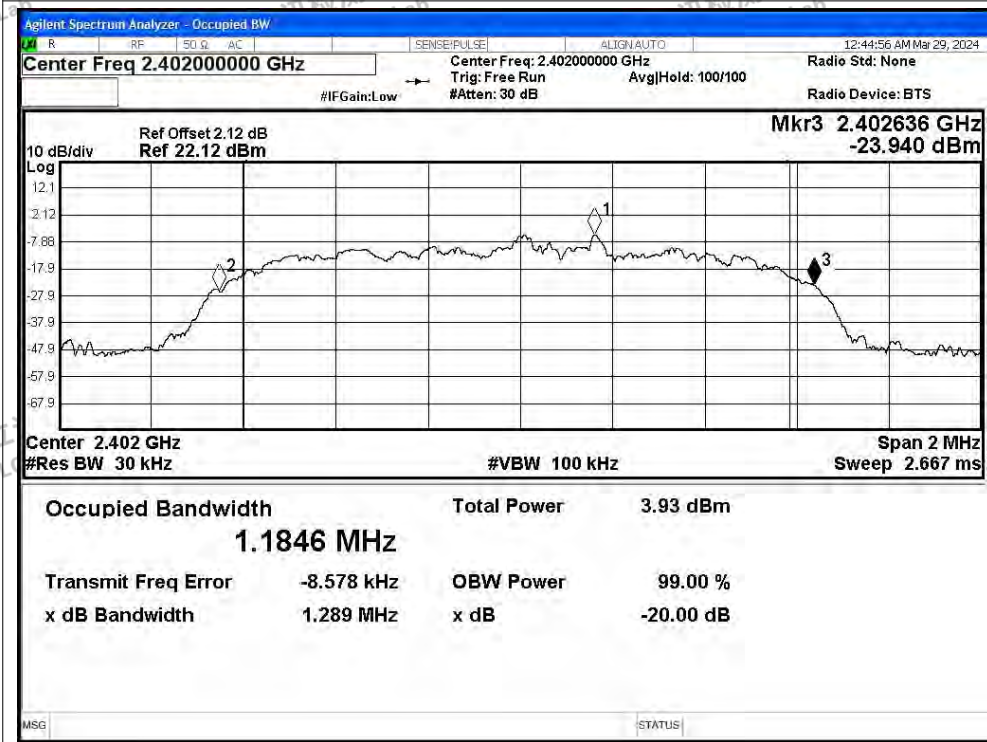




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

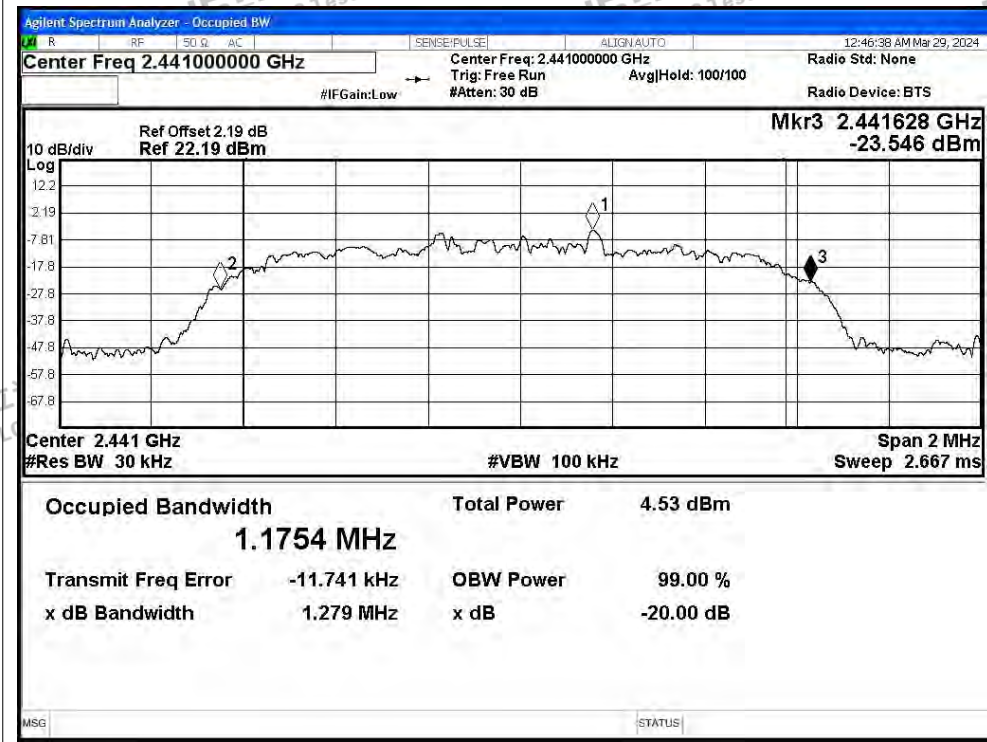


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

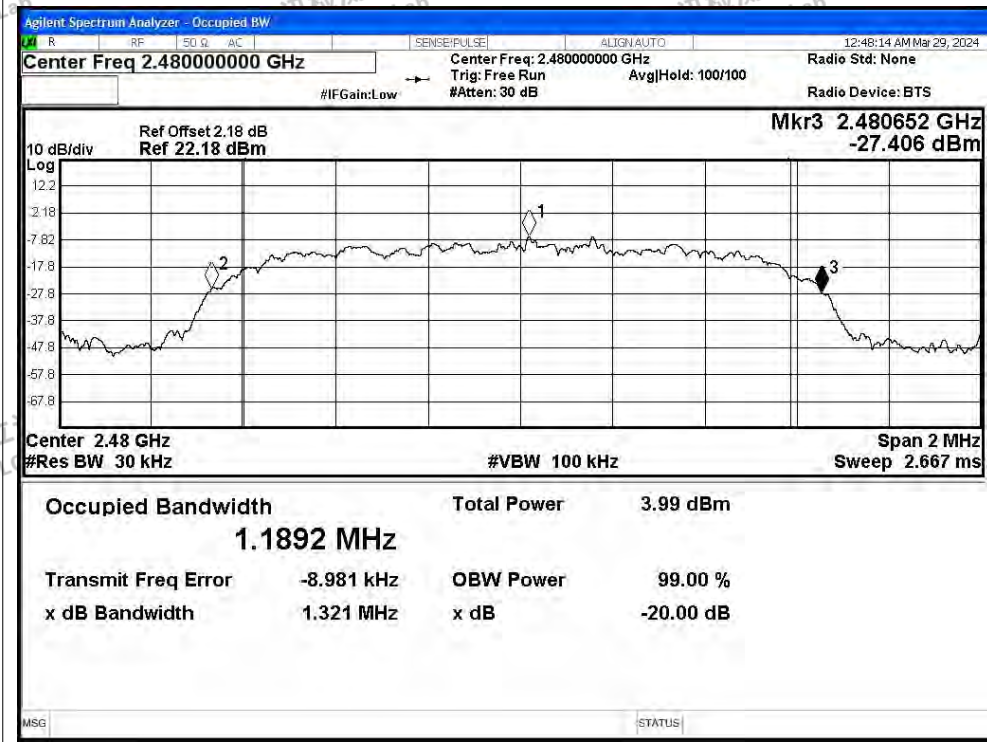




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

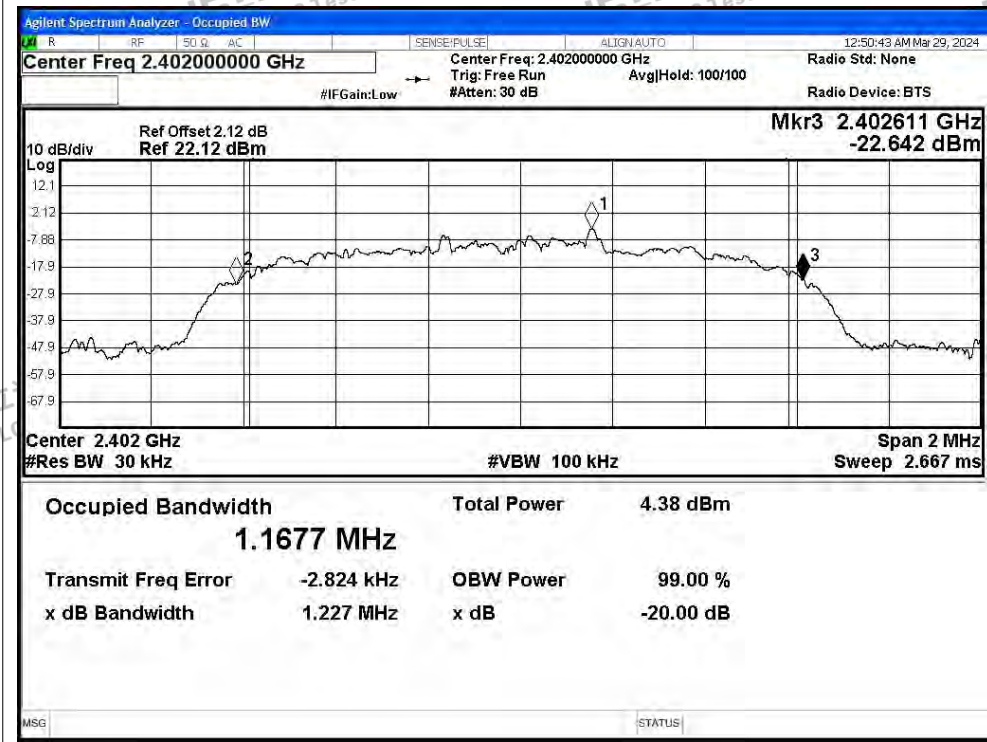


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

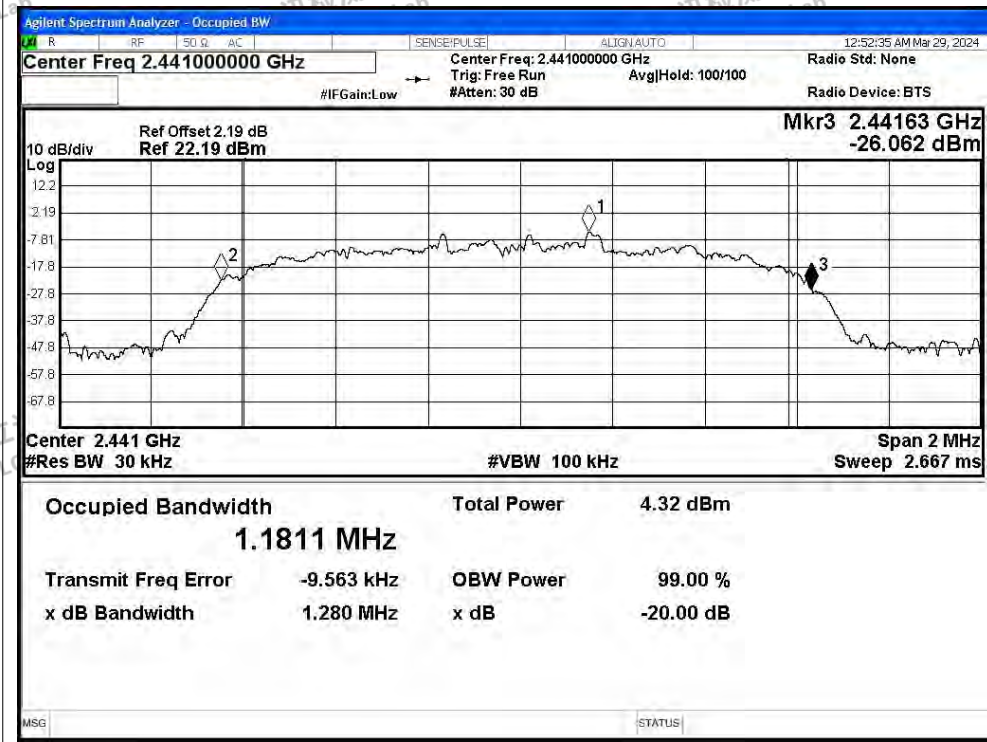




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

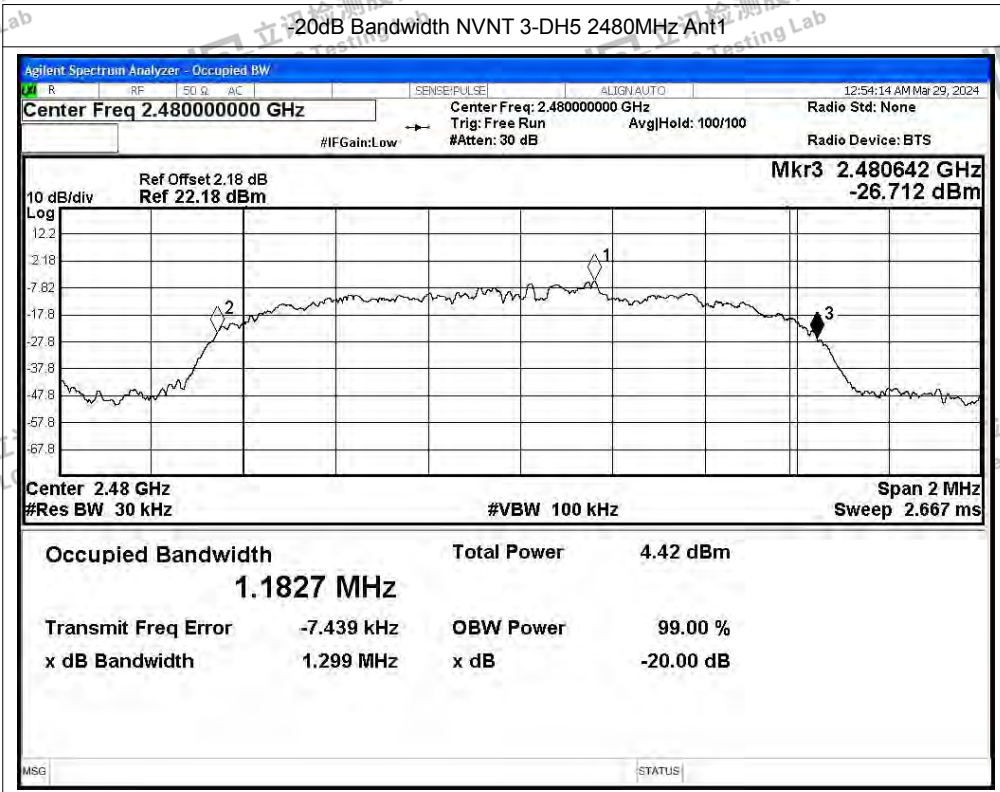


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.5	21	Pass
NVNT	1-DH5	2441	Ant1	-0.16	21	Pass
NVNT	1-DH5	2480	Ant1	0.12	21	Pass
NVNT	2-DH5	2402	Ant1	-0.61	21	Pass
NVNT	2-DH5	2441	Ant1	-0.13	21	Pass
NVNT	2-DH5	2480	Ant1	-0.07	21	Pass
NVNT	3-DH5	2402	Ant1	-0.47	21	Pass
NVNT	3-DH5	2441	Ant1	-0.04	21	Pass
NVNT	3-DH5	2480	Ant1	-0.04	21	Pass

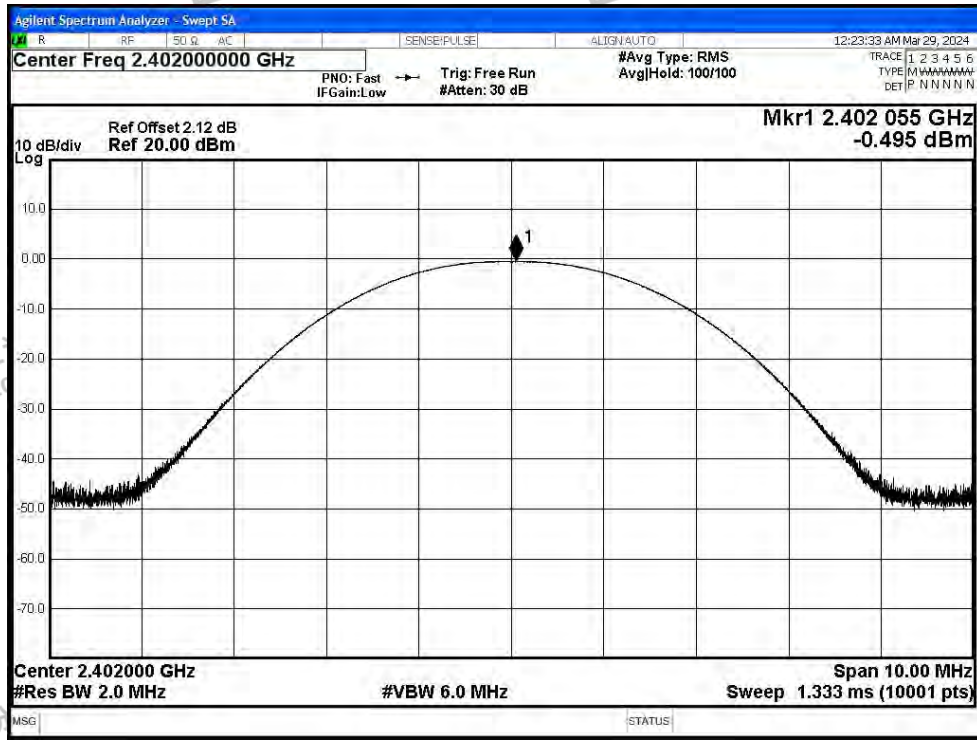


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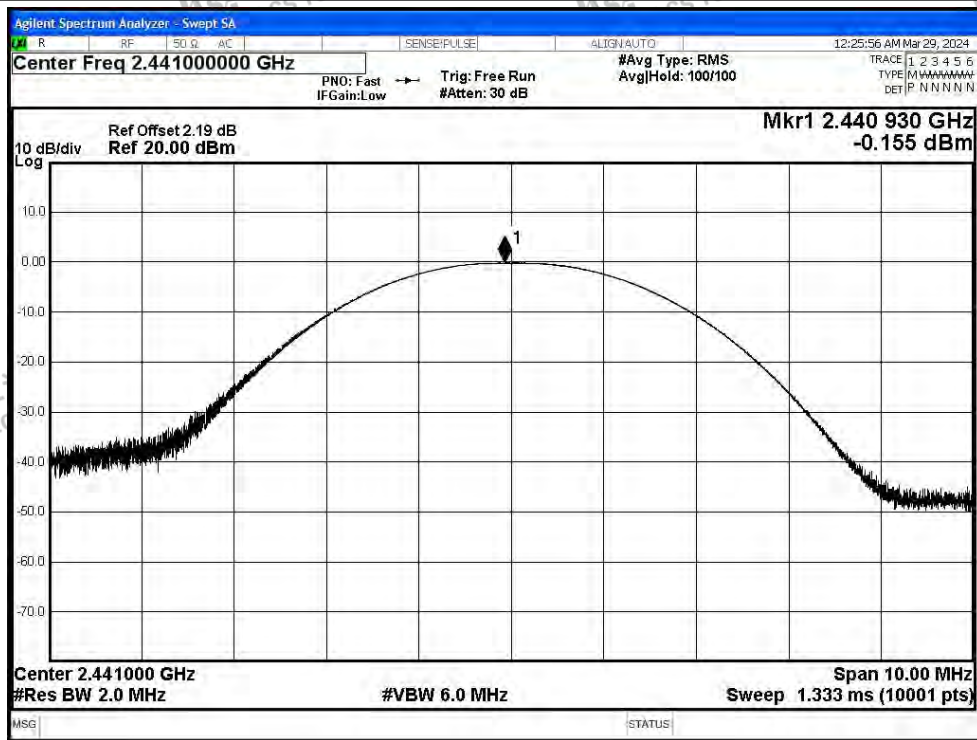


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

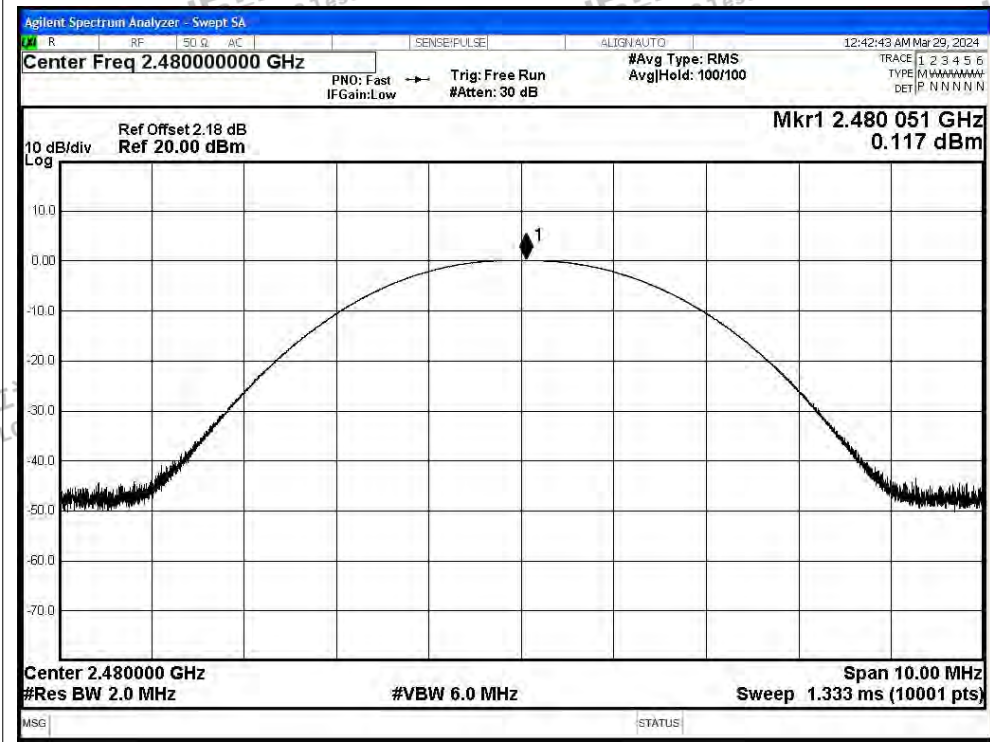


Power NVNT 1-DH5 2441MHz Ant1

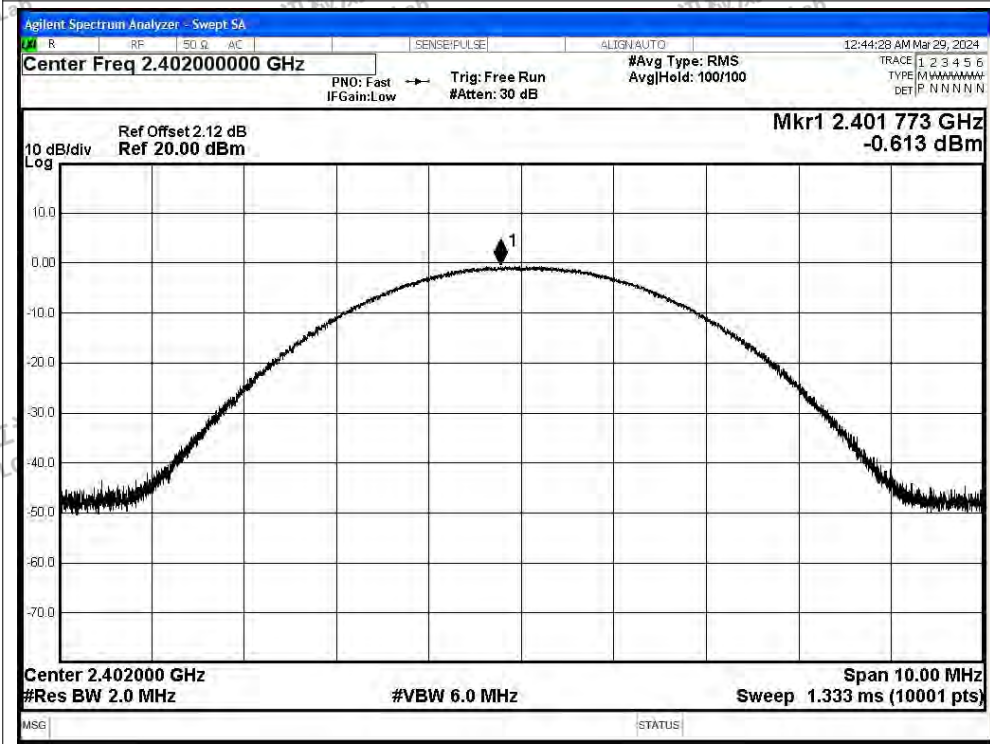




Power NVNT 1-DH5 2480MHz Ant1

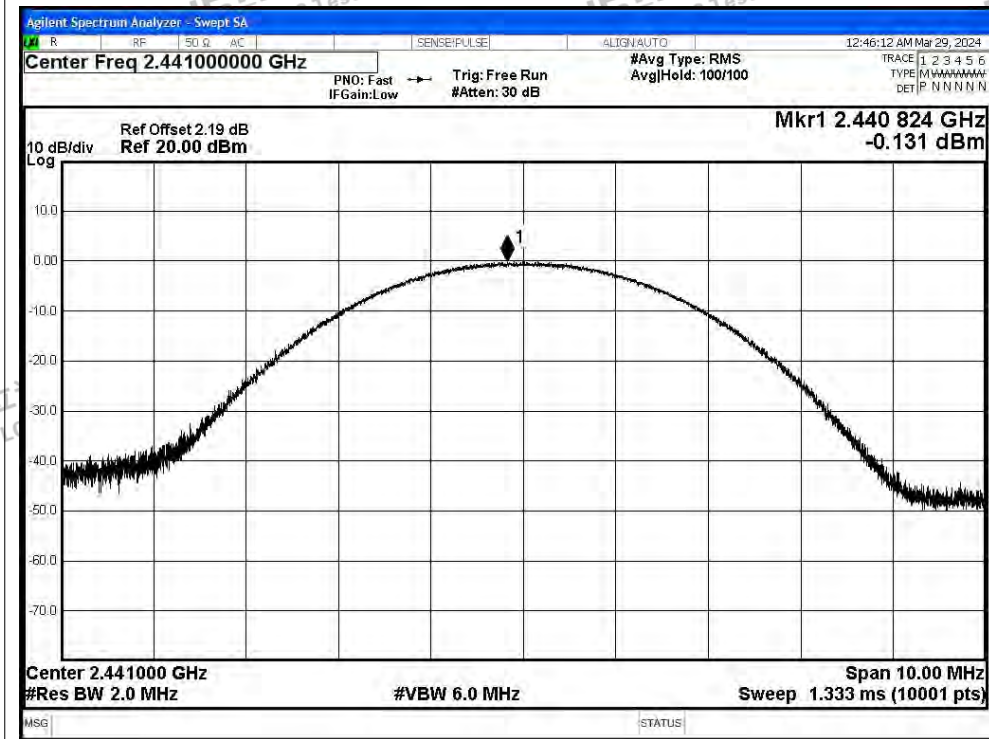


Power NVNT 2-DH5 2402MHz Ant1

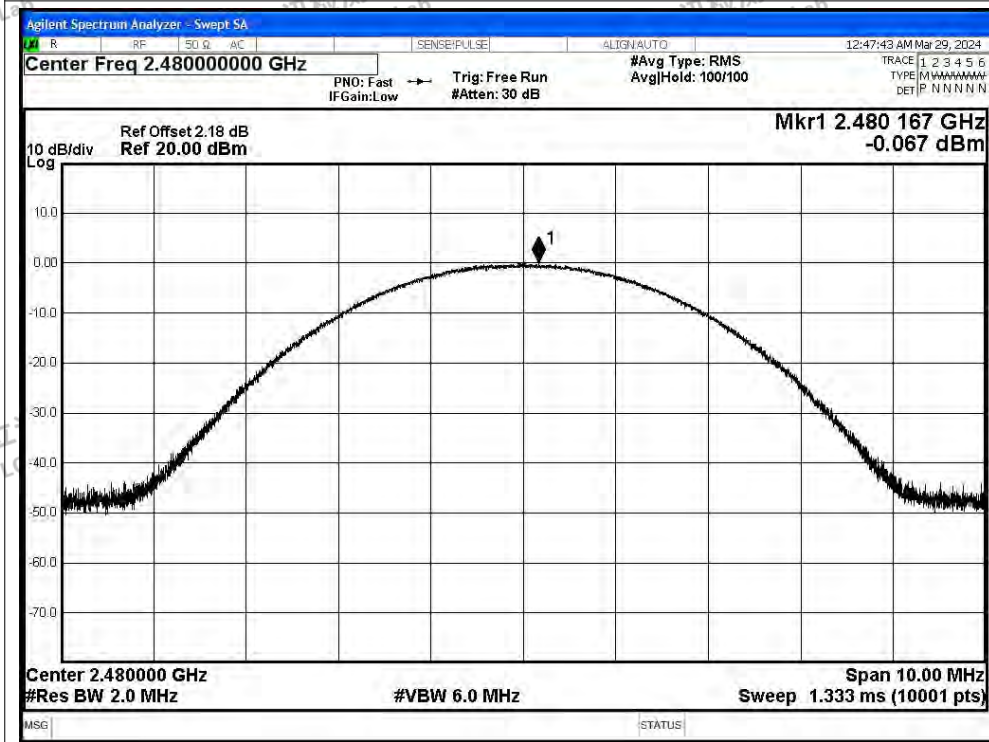




Power NVNT 2-DH5 2441MHz Ant1

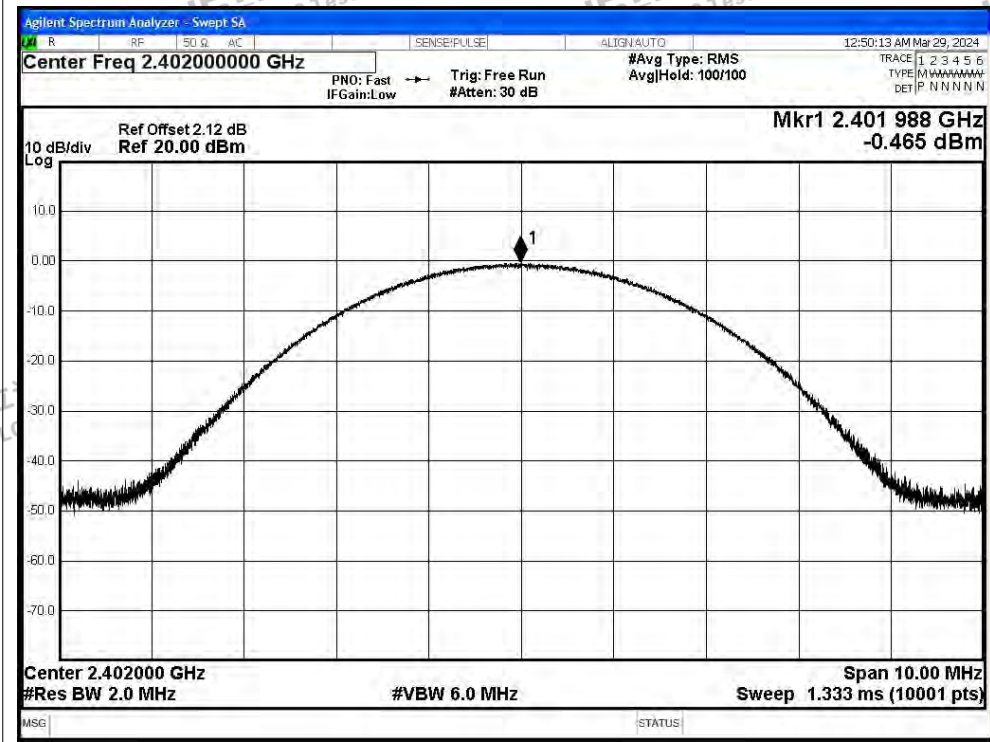


Power NVNT 2-DH5 2480MHz Ant1

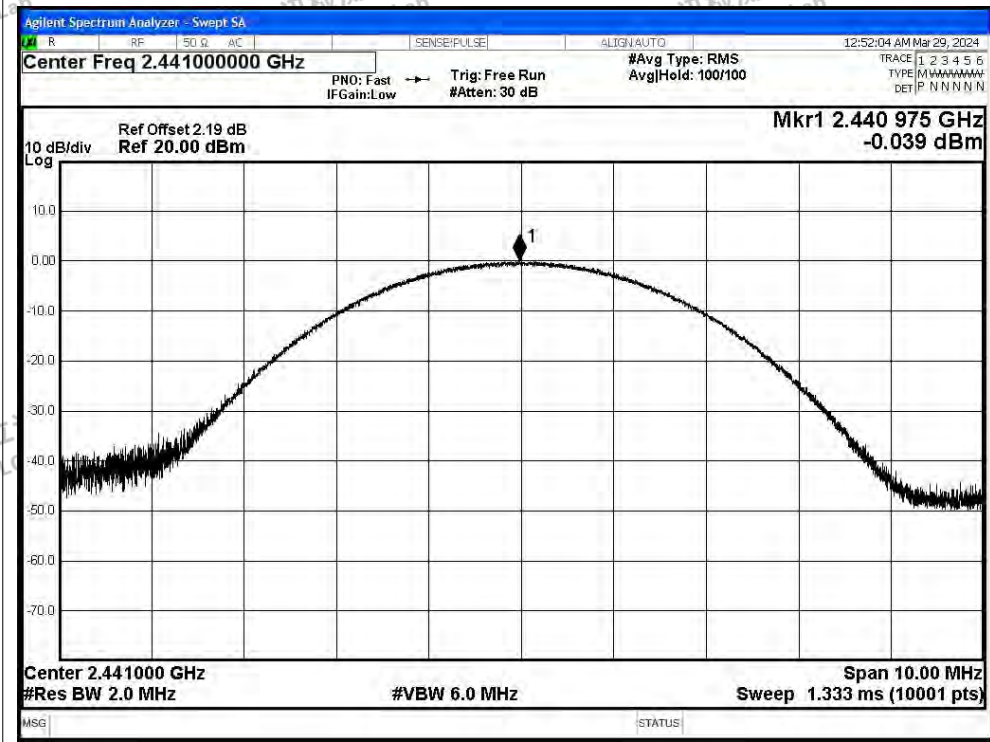




Power NVNT 3-DH5 2402MHz Ant1

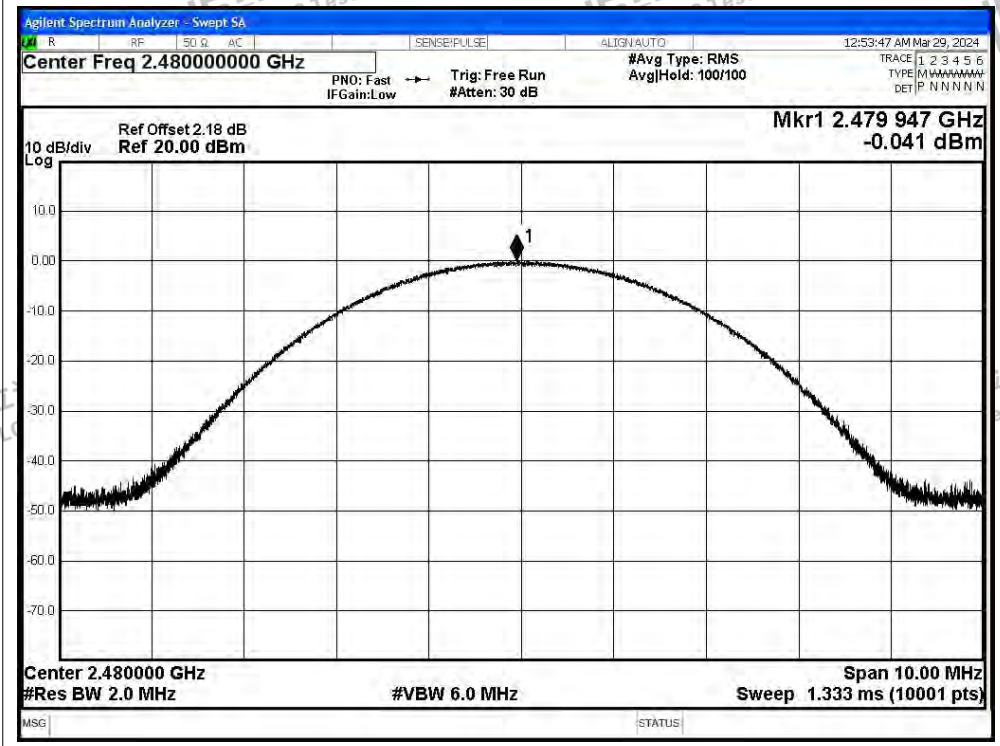


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-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	2402.052	2403.01	0.958	0.665	Pass
NVNT	2-DH5	Ant1	2401.828	2403.156	1.328	0.881	Pass
NVNT	3-DH5	Ant1	2402.158	2403.16	1.002	0.866	Pass

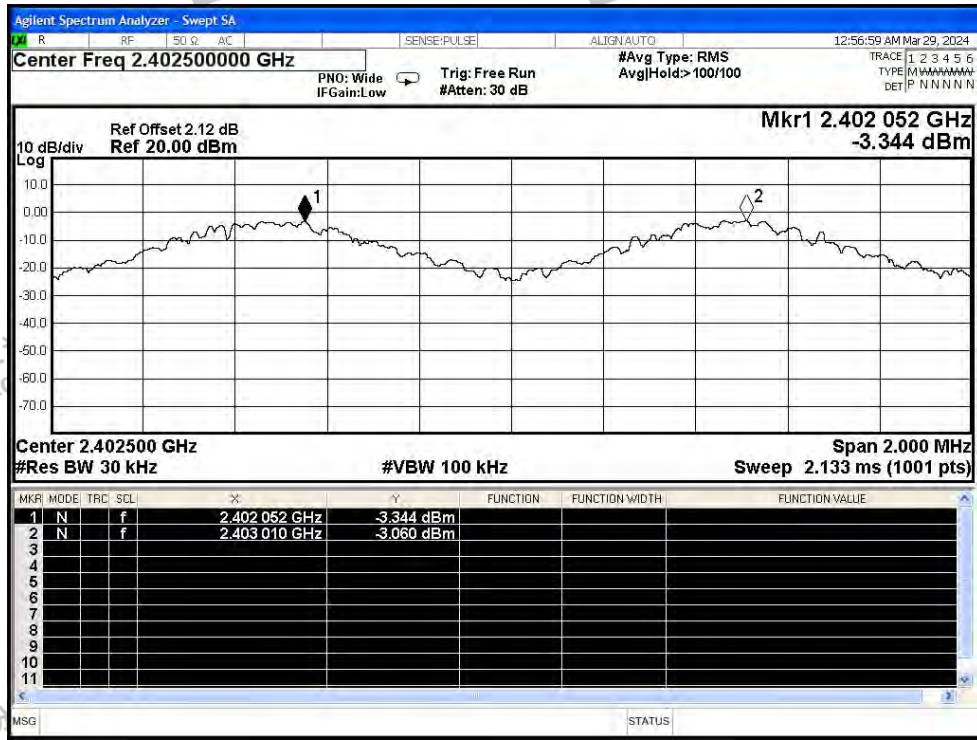


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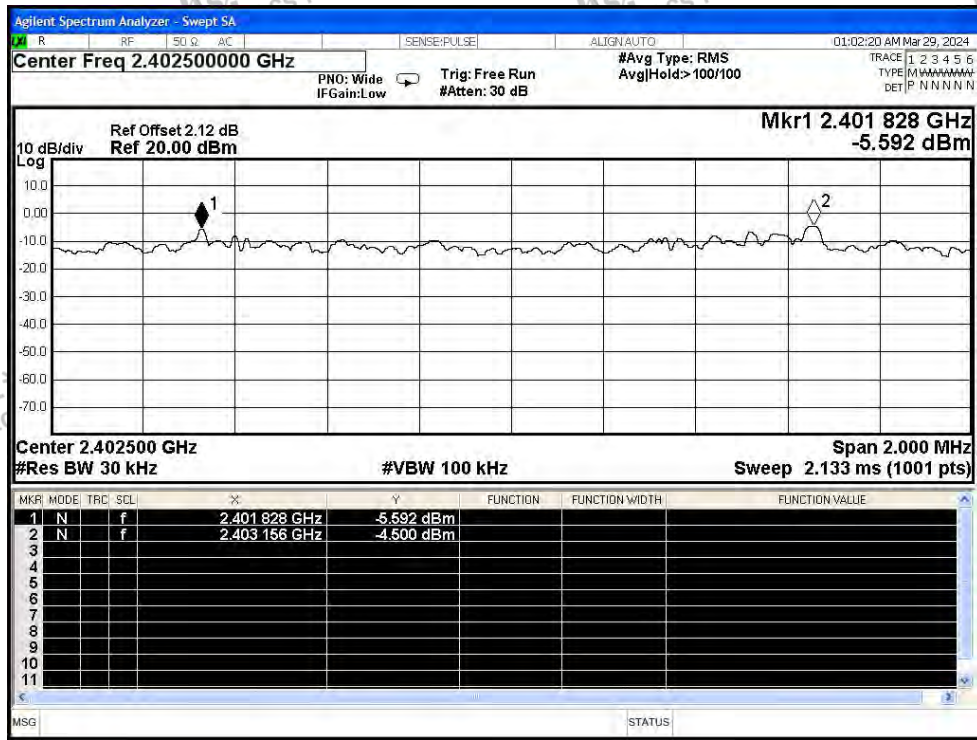


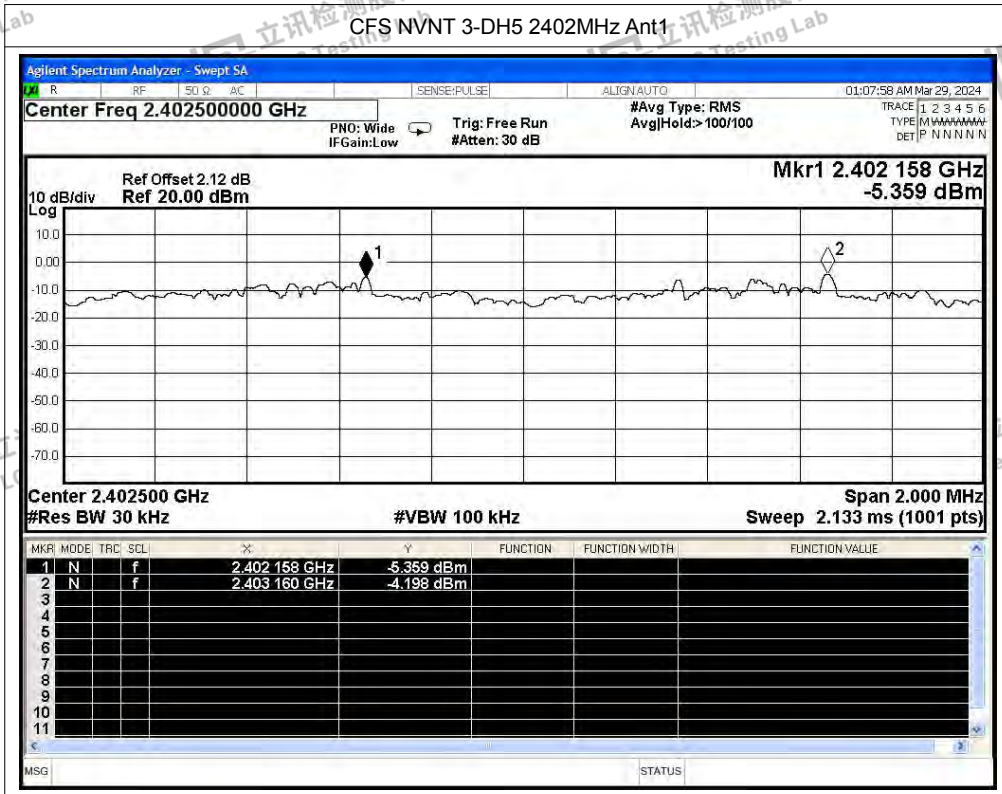
Test Graphs

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	2.882	302.61	105	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	311.04	108	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	256.943	89	31600	400	Pass

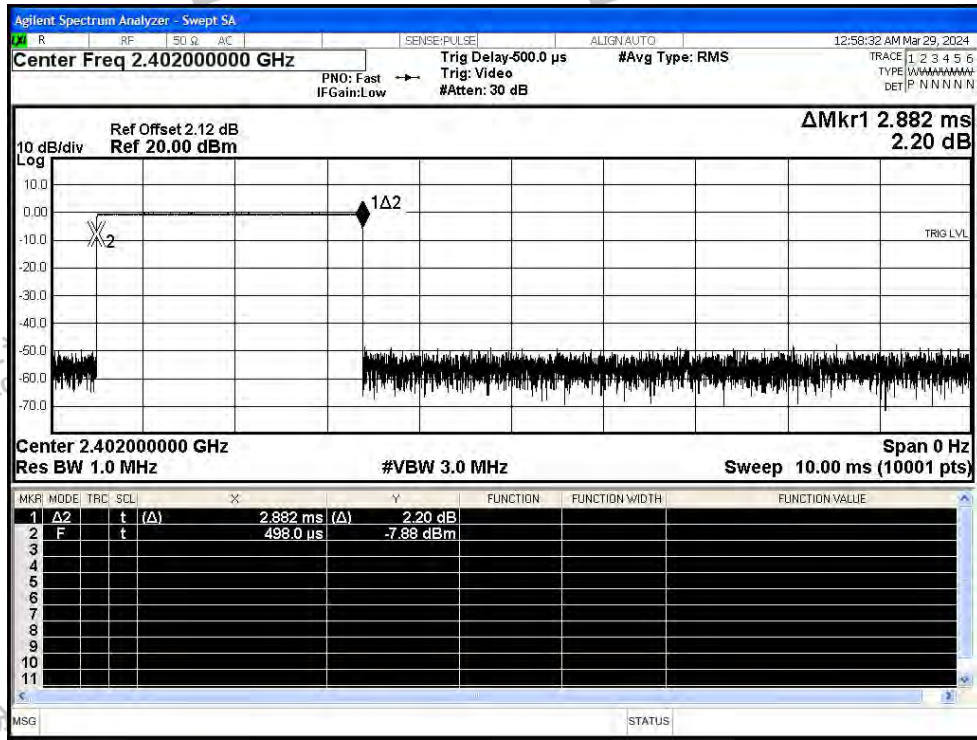


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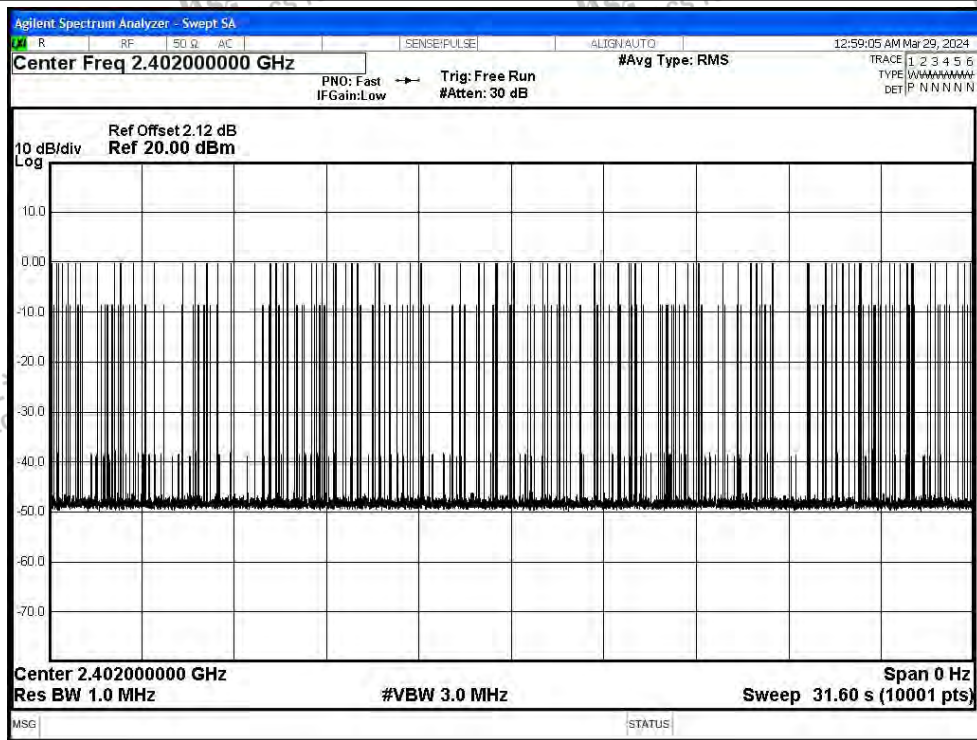


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

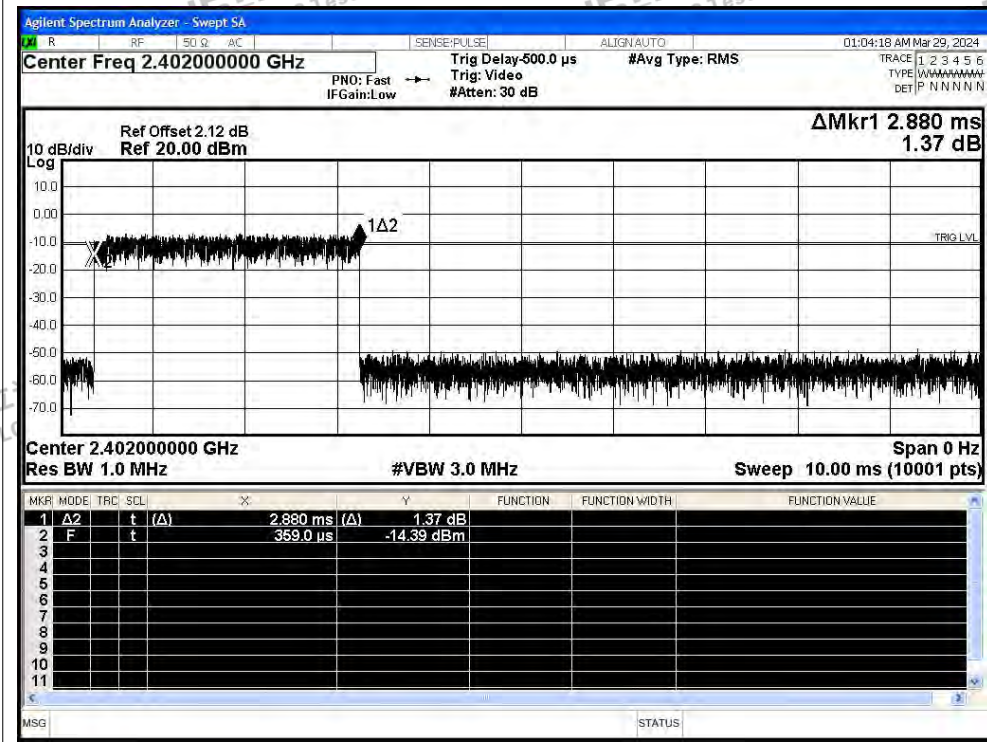


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

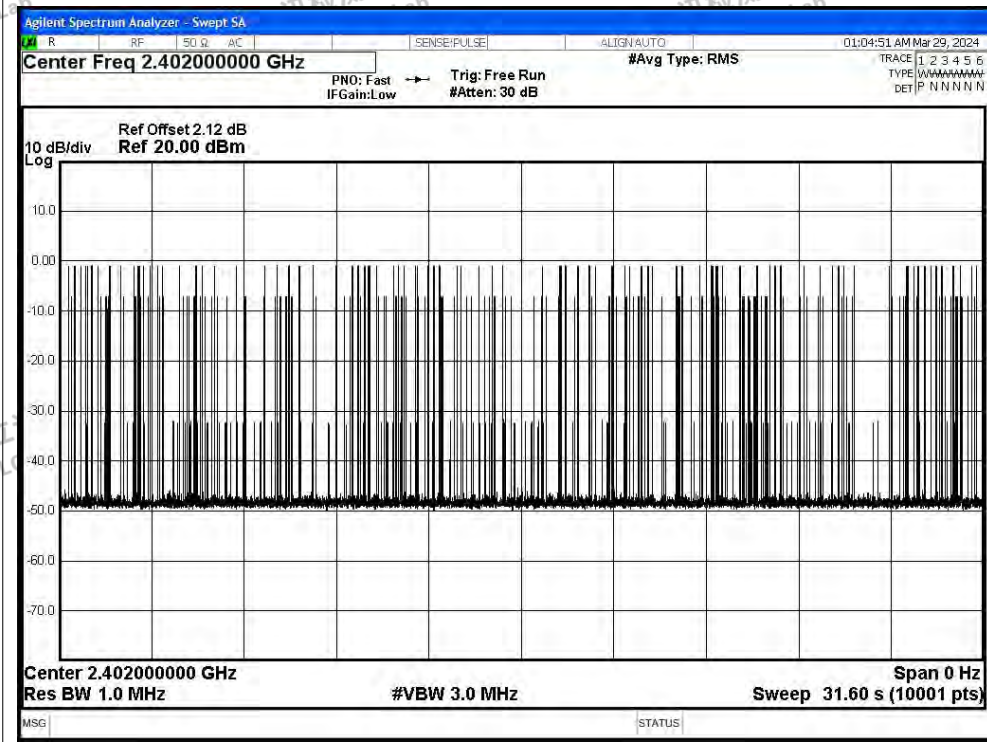




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

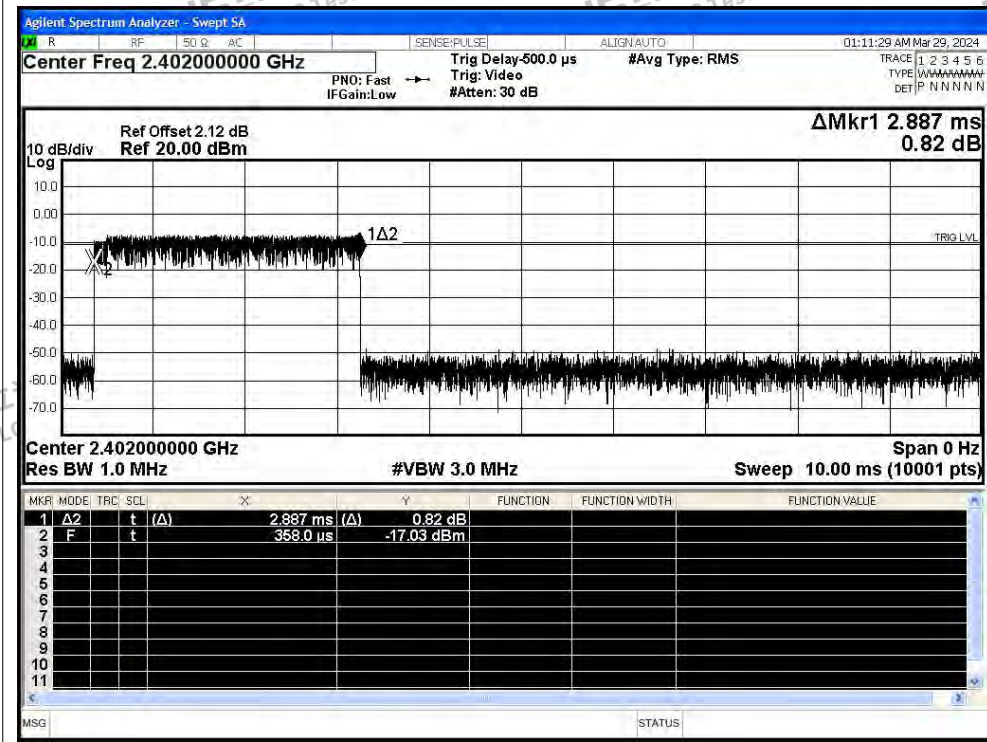


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

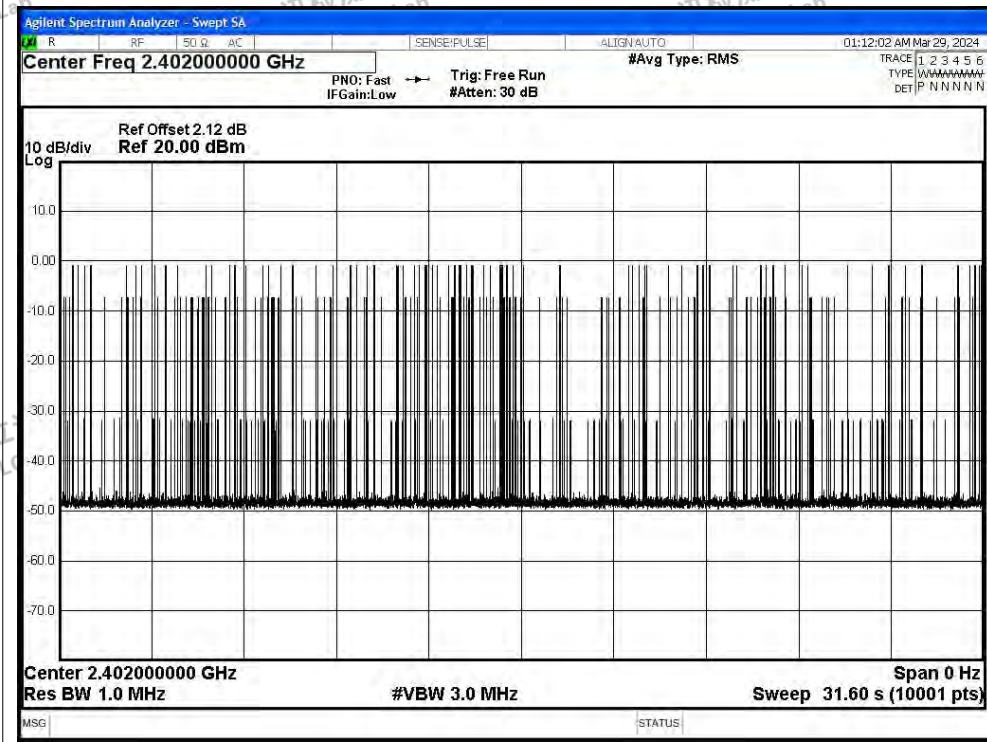




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

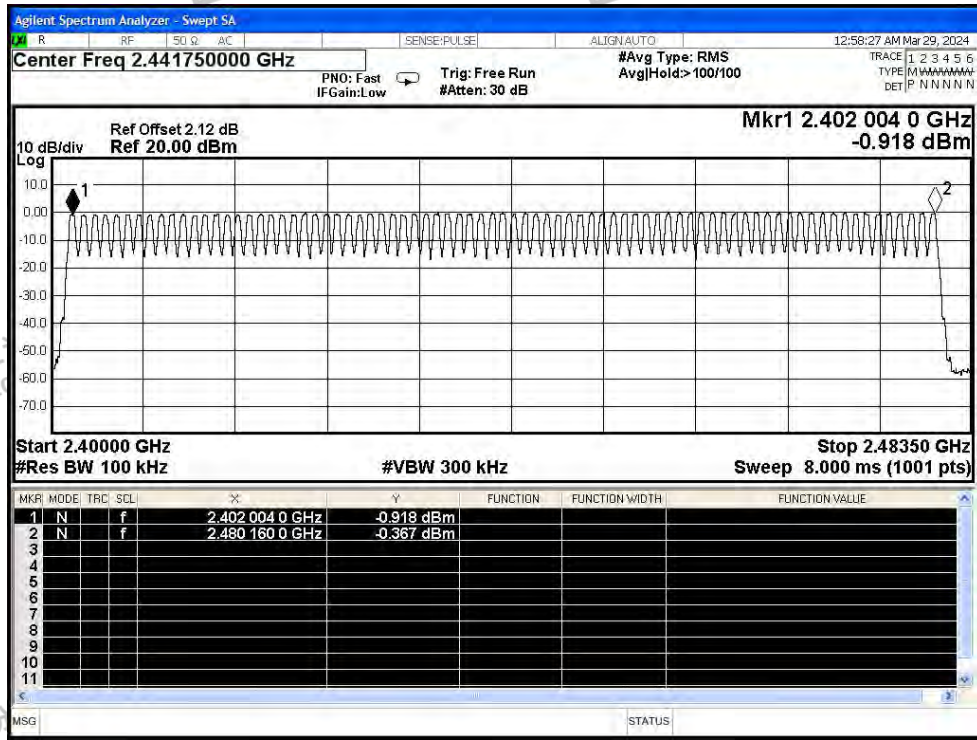
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



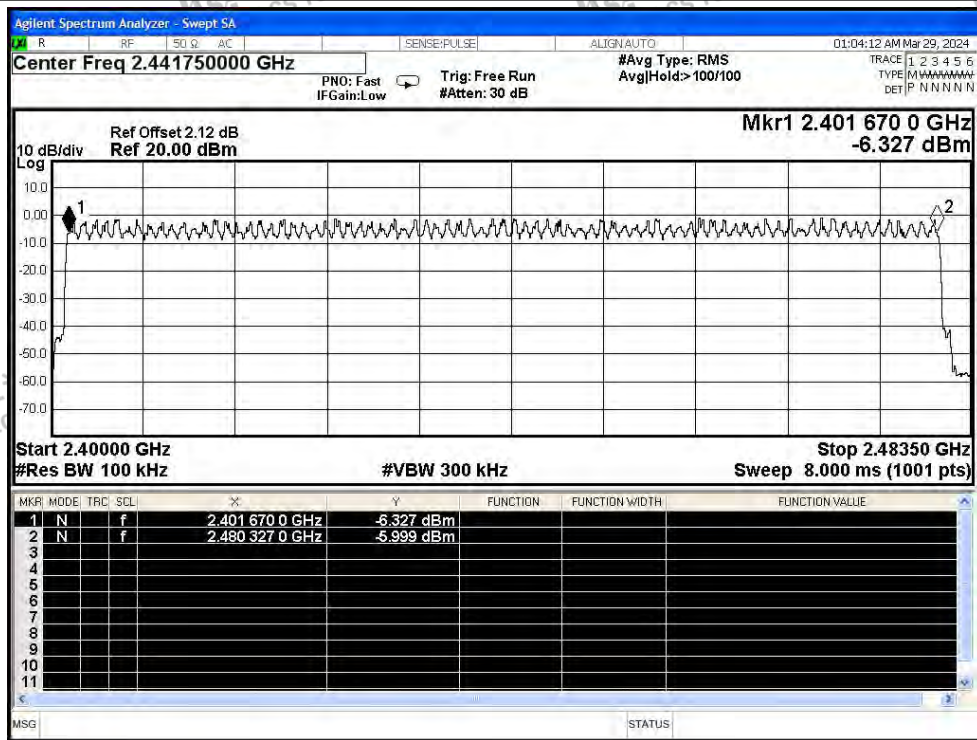


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

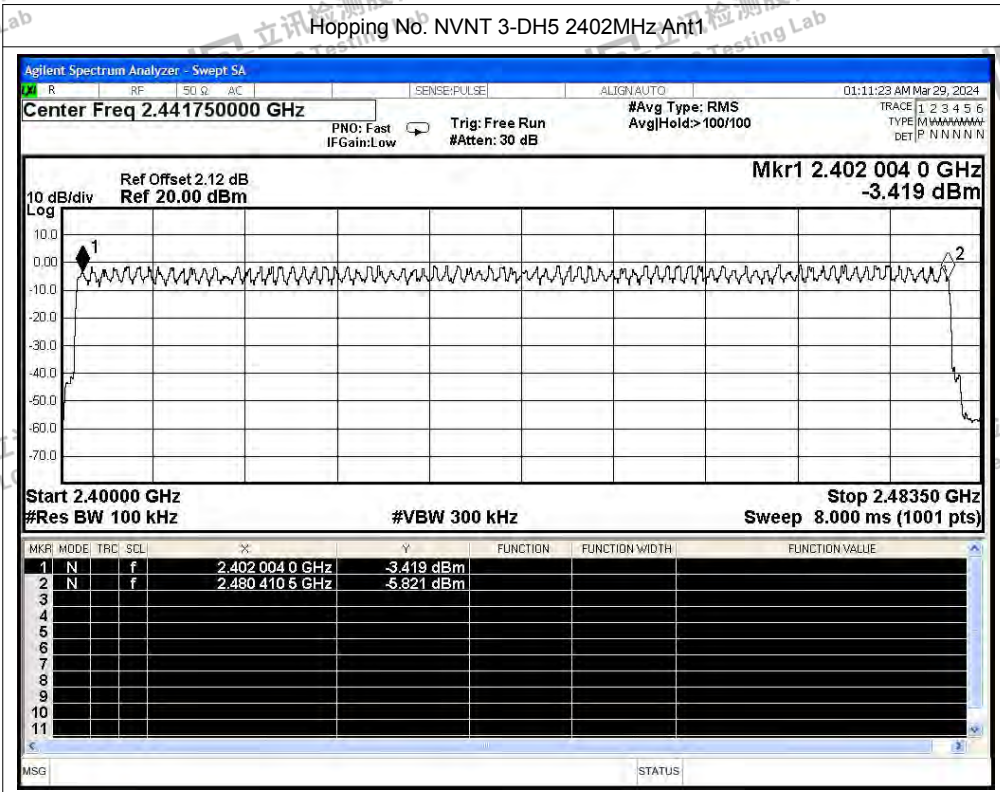


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-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	-56.21	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.07	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.54	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.99	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.9	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.48	-20	Pass

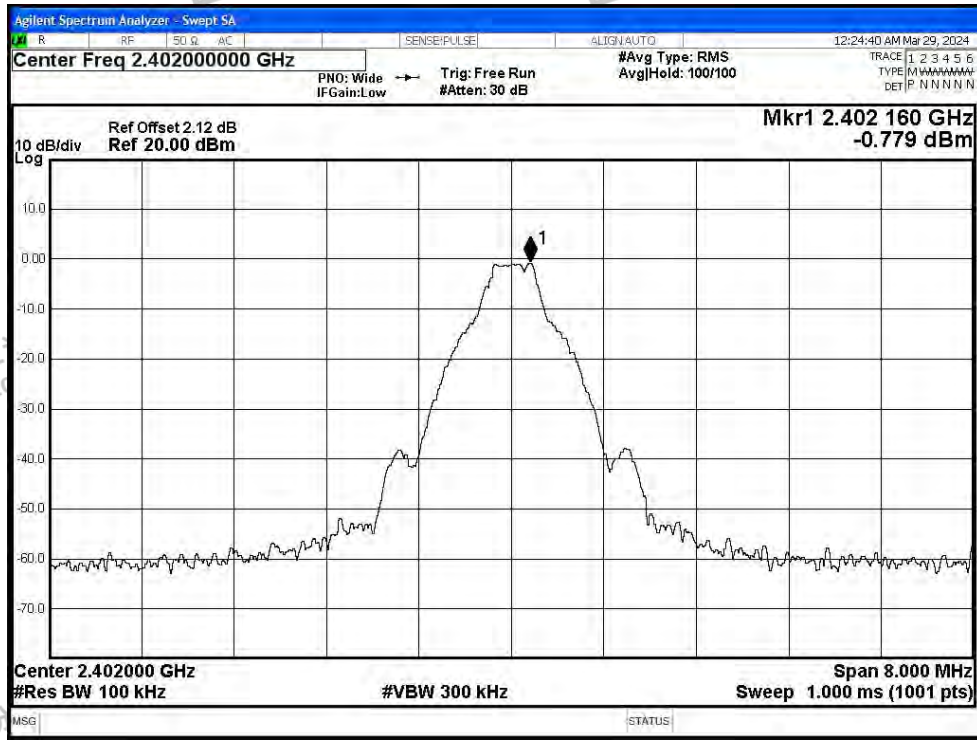


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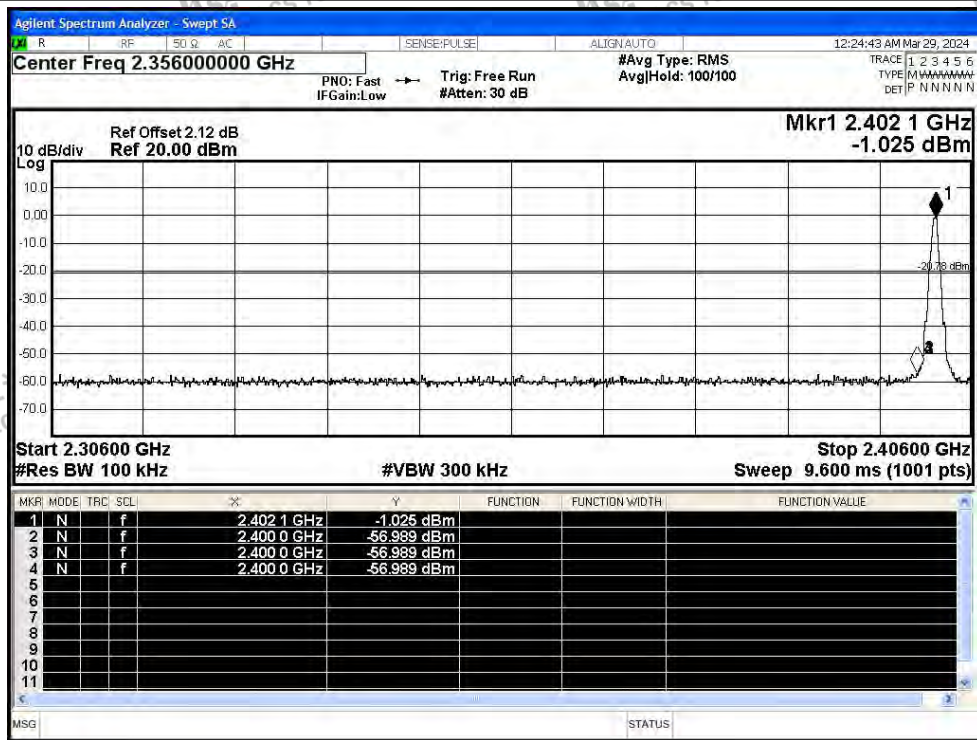


Test Graphs

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

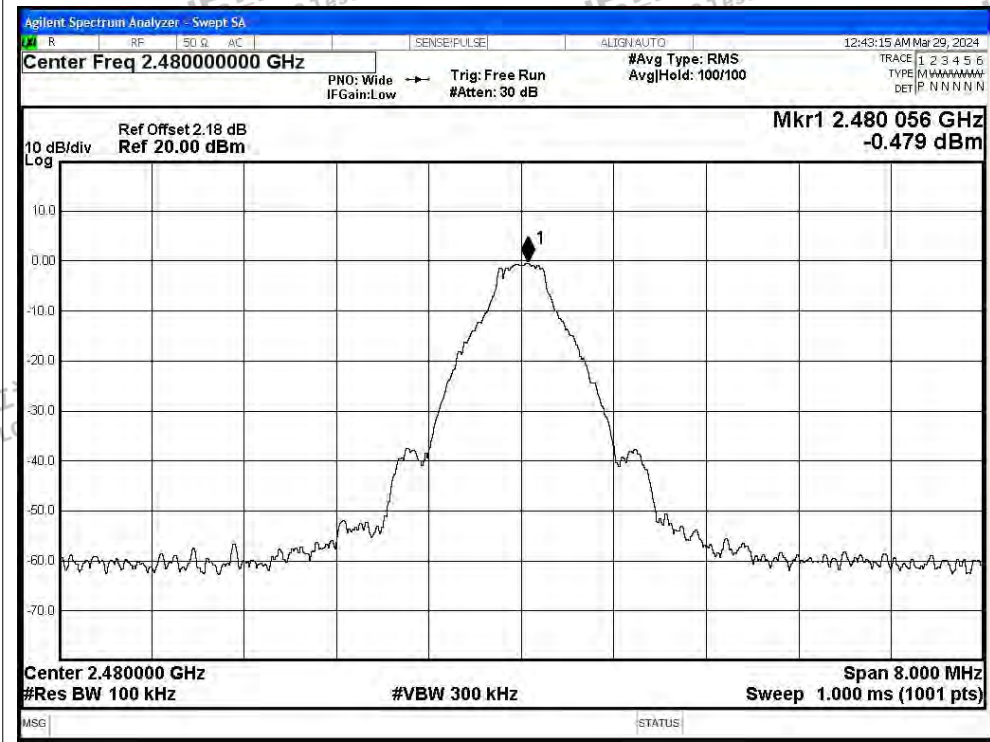


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

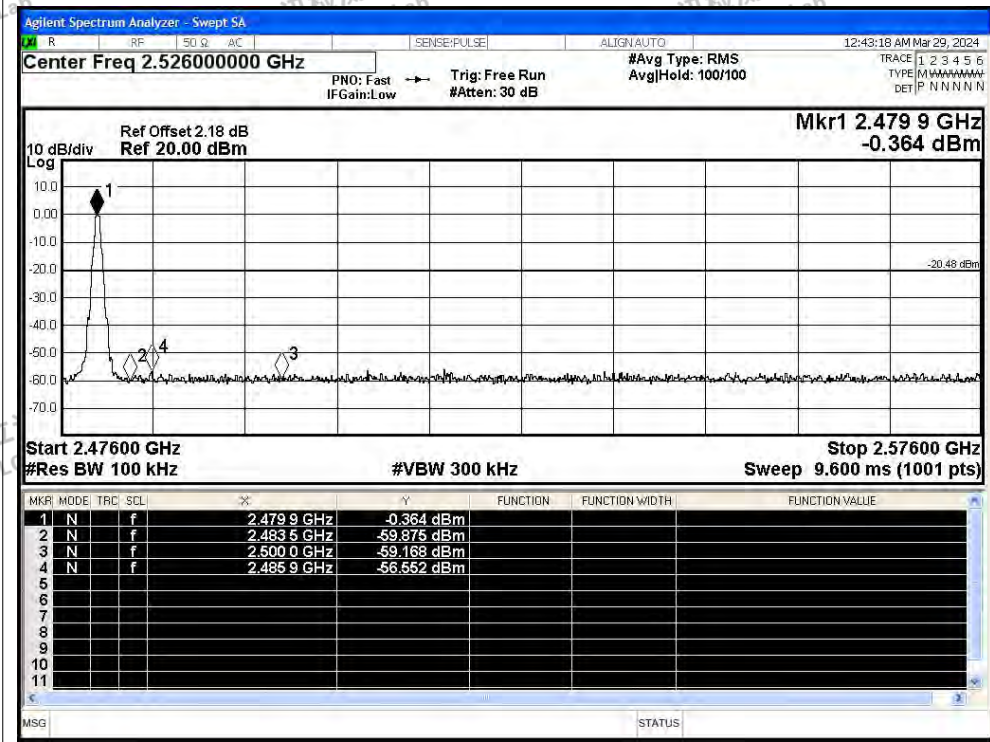




Band Edge NVNT-1-DH5 2480MHz Ant1 No-Hopping Ref

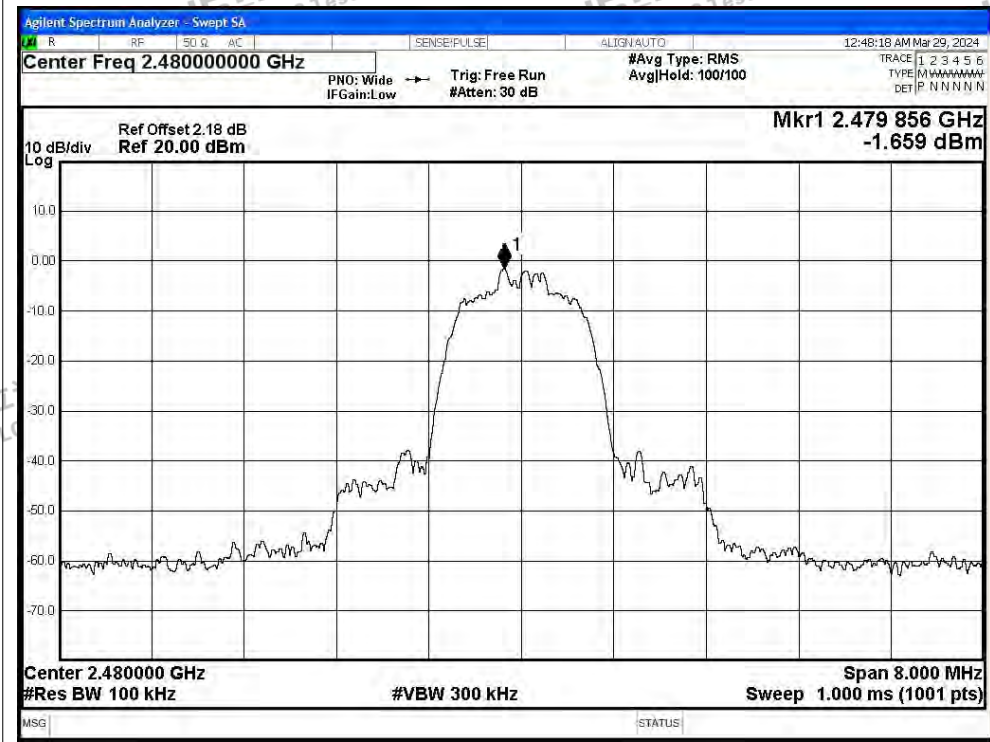


Band Edge NVNT-1-DH5 2480MHz Ant1 No-Hopping Emission

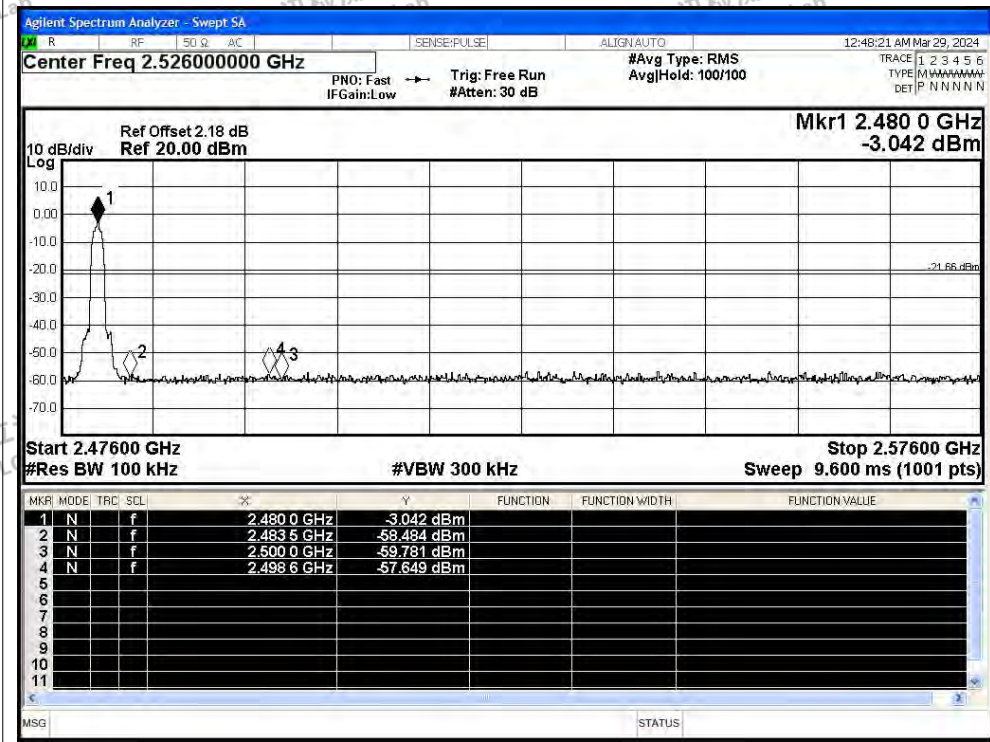




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

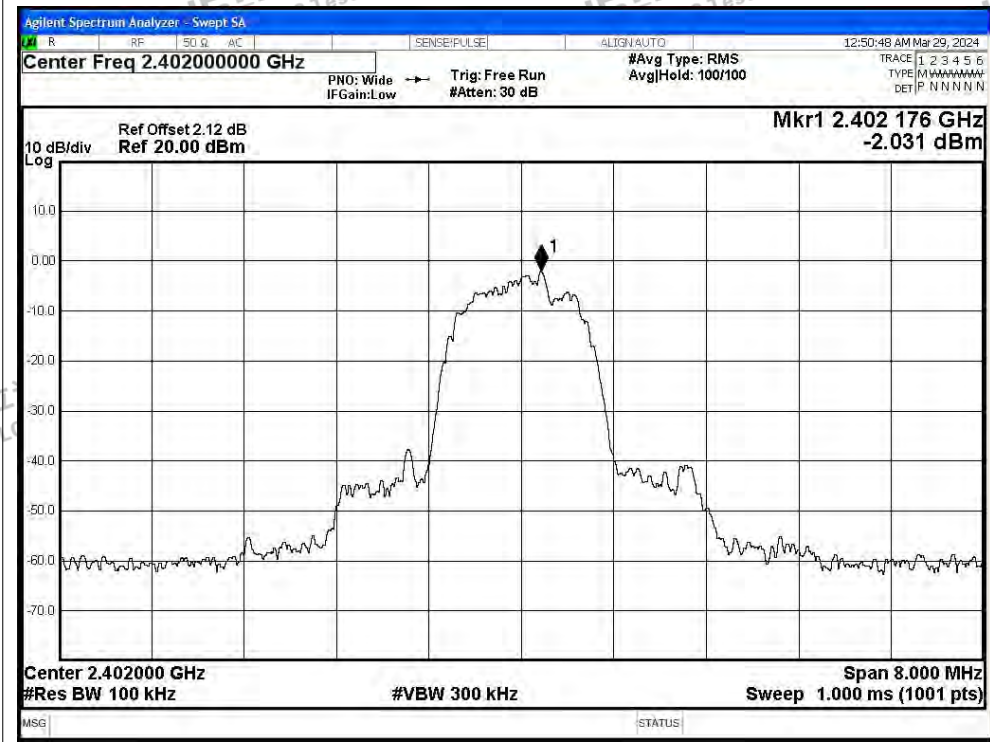


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

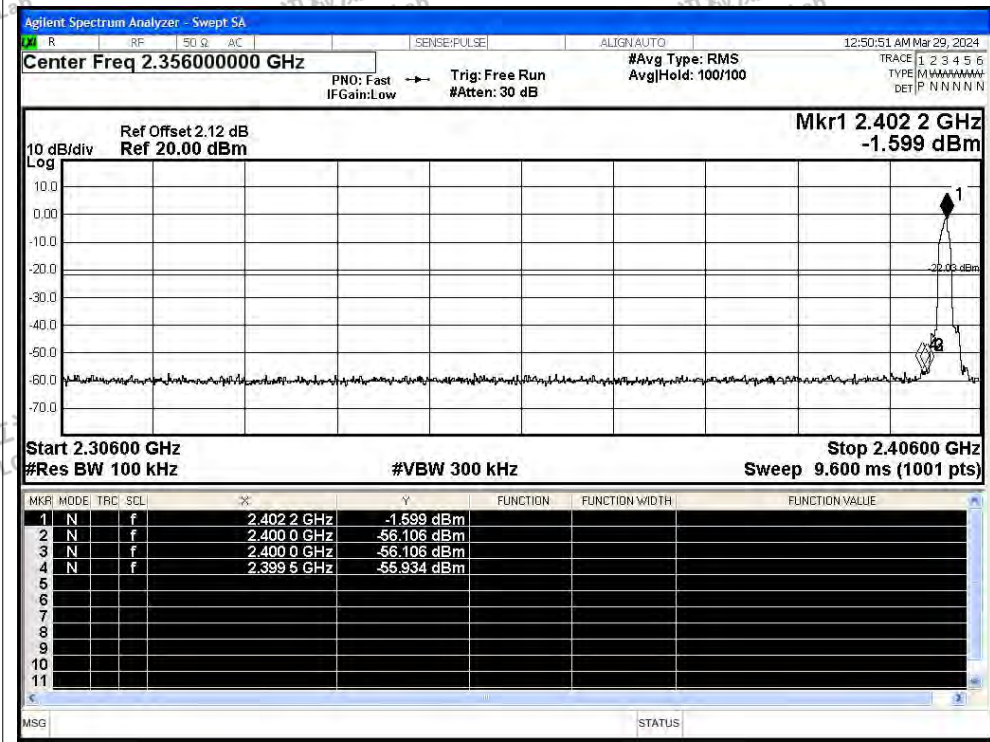




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.4	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.22	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.91	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.4	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.37	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.41	-20	Pass

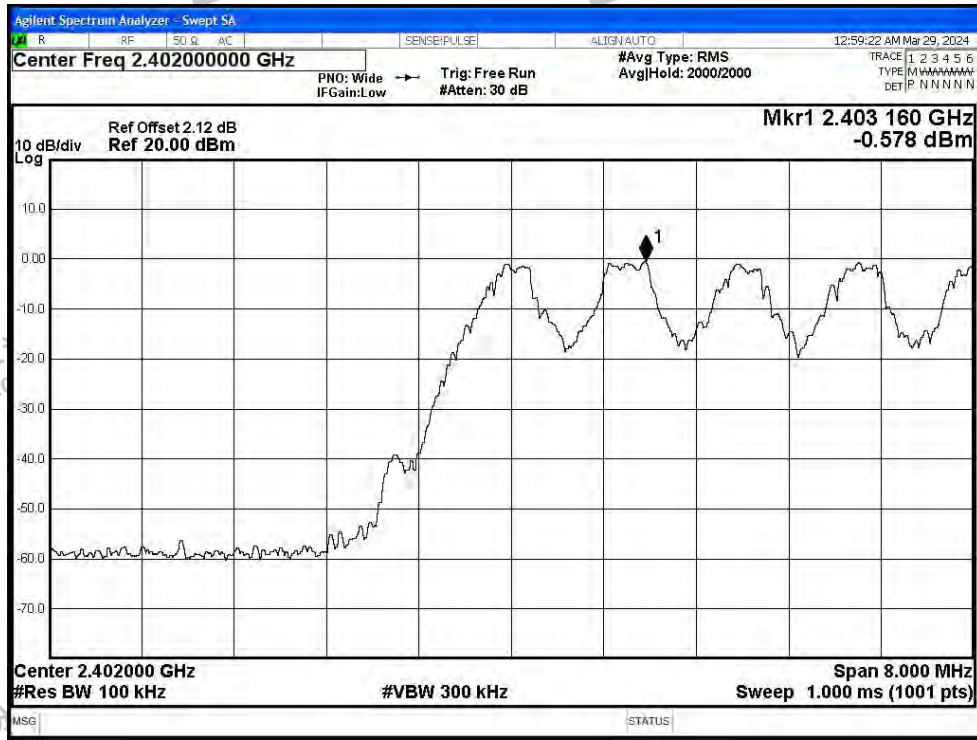


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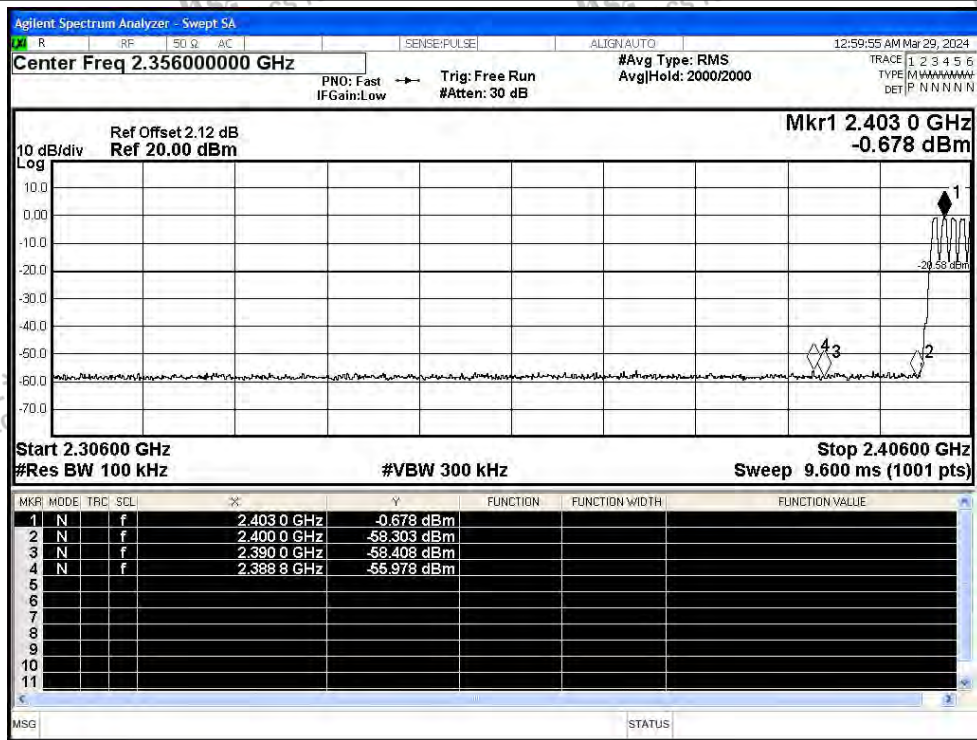


Test Graphs

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

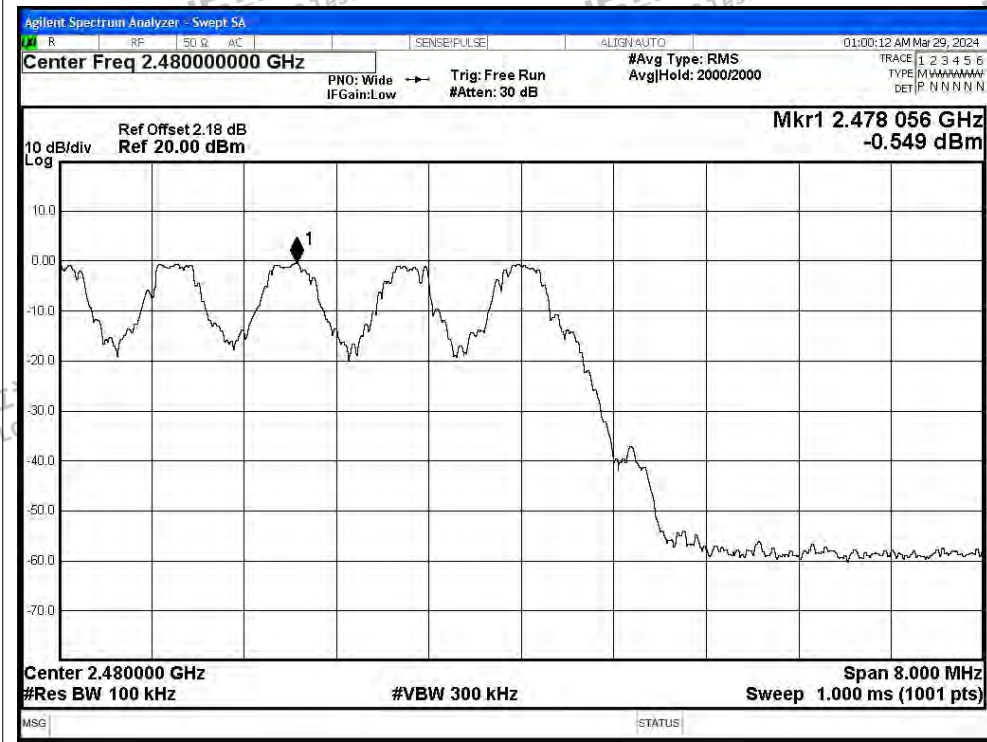


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

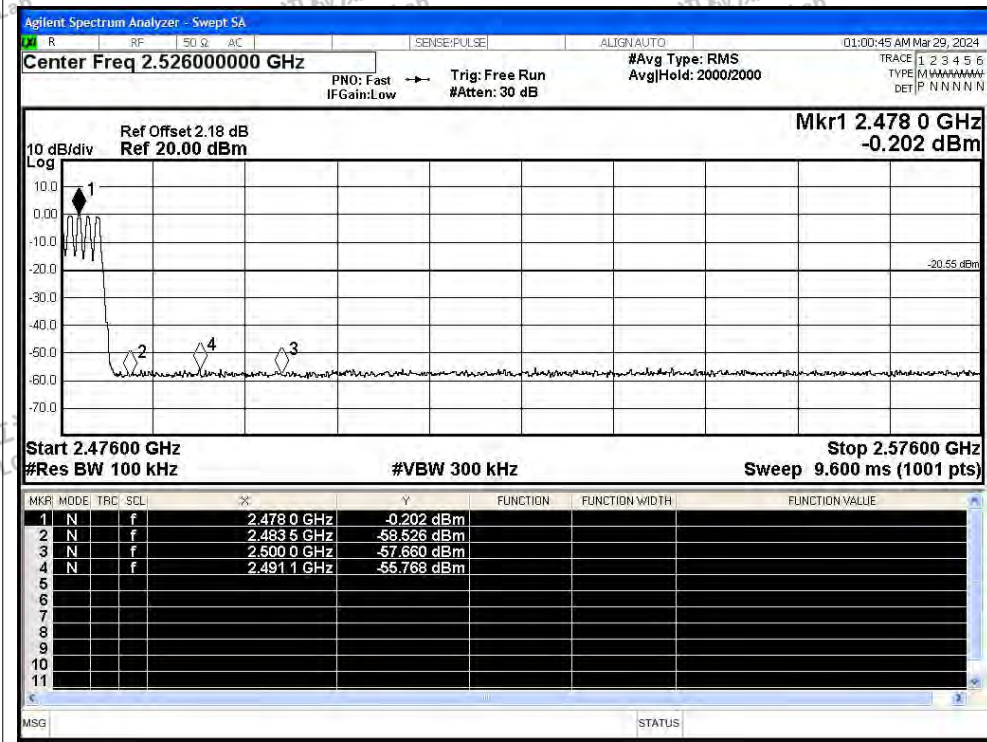




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

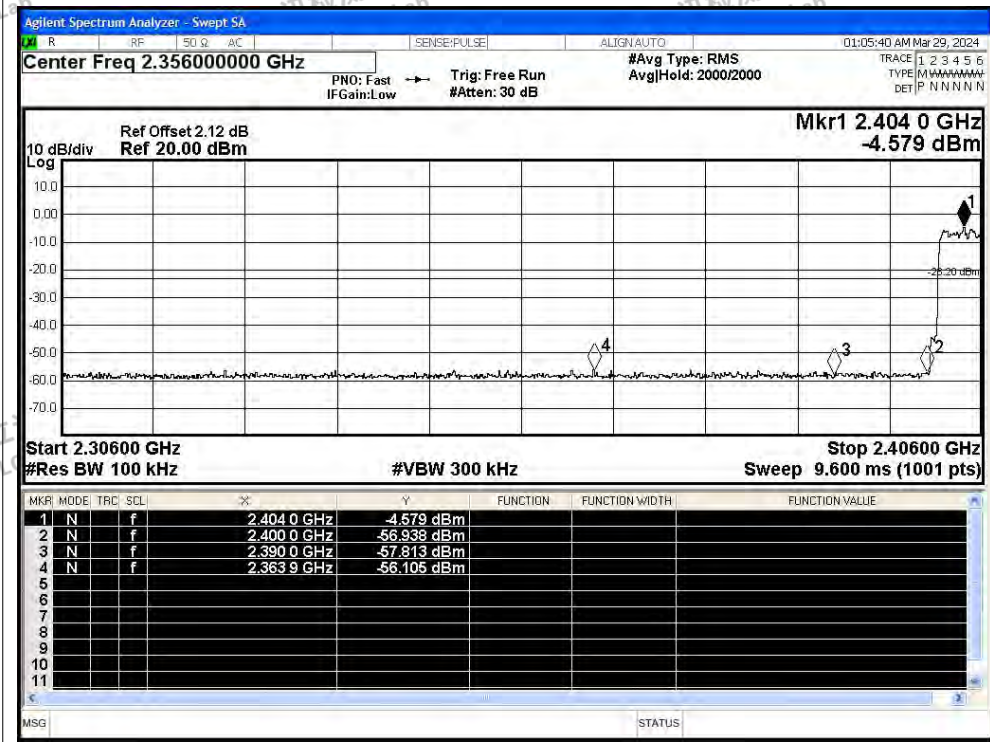




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

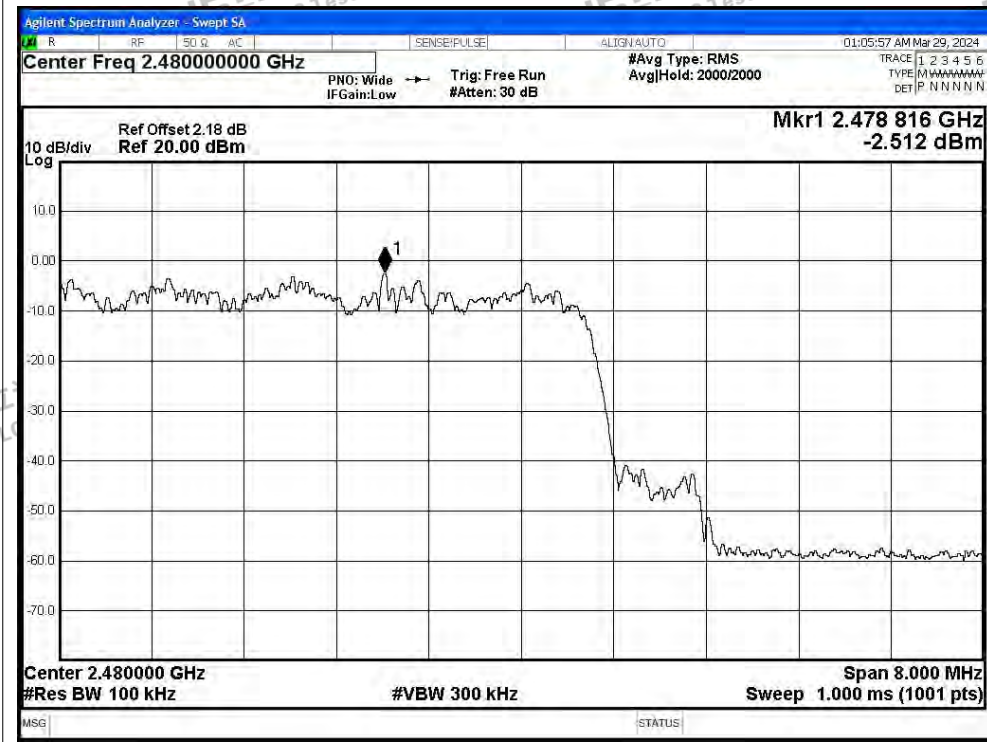


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

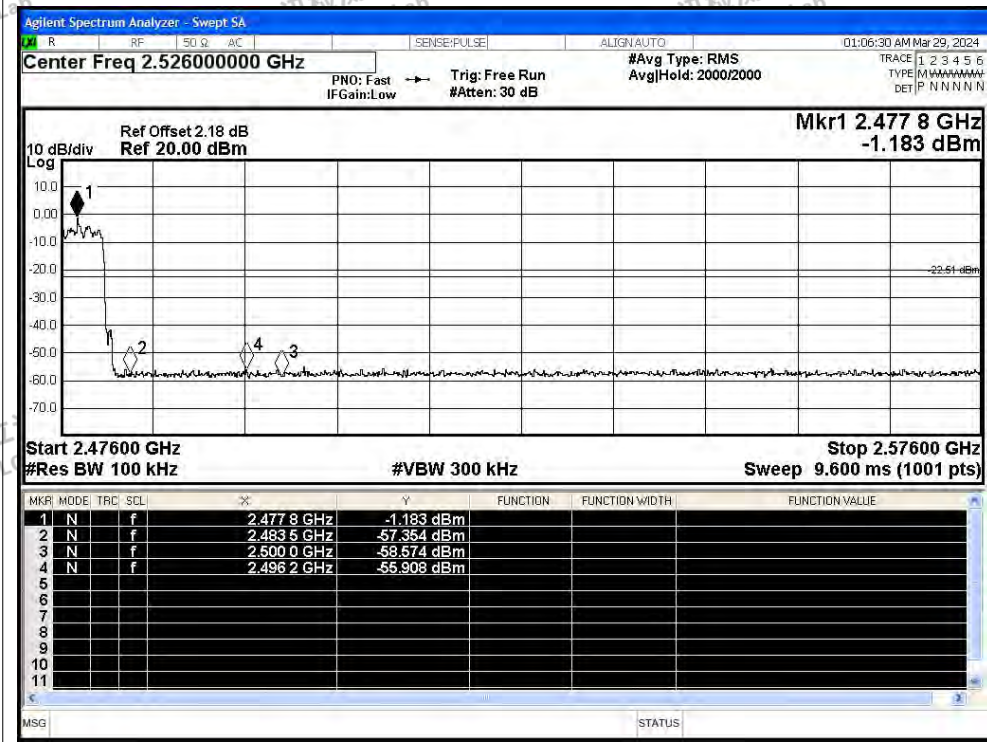




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

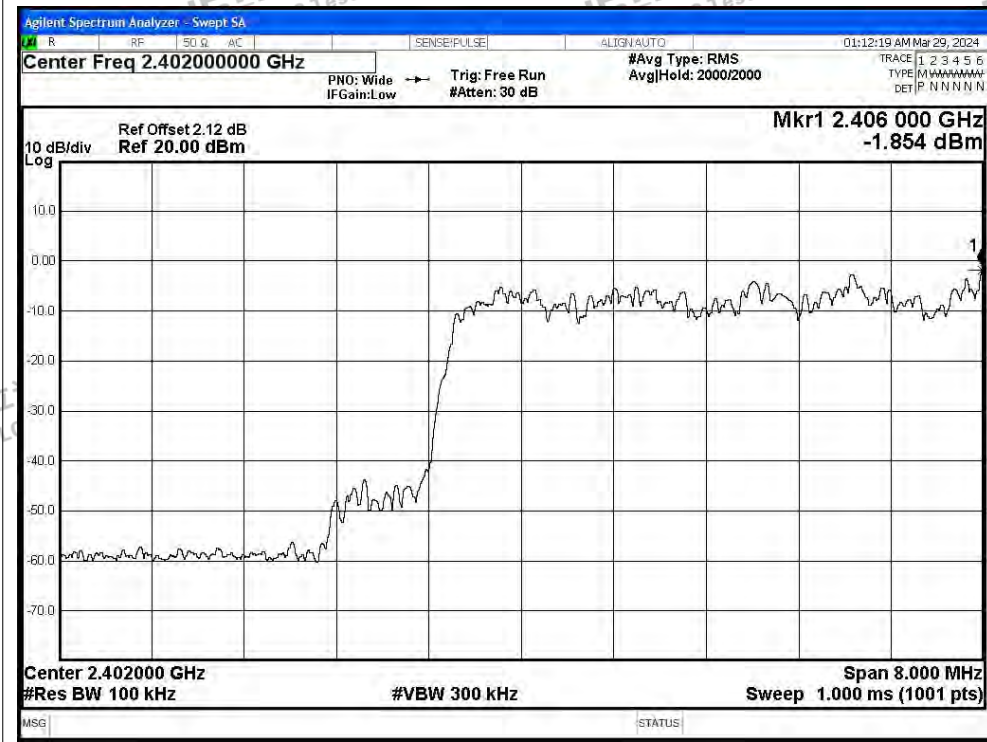


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

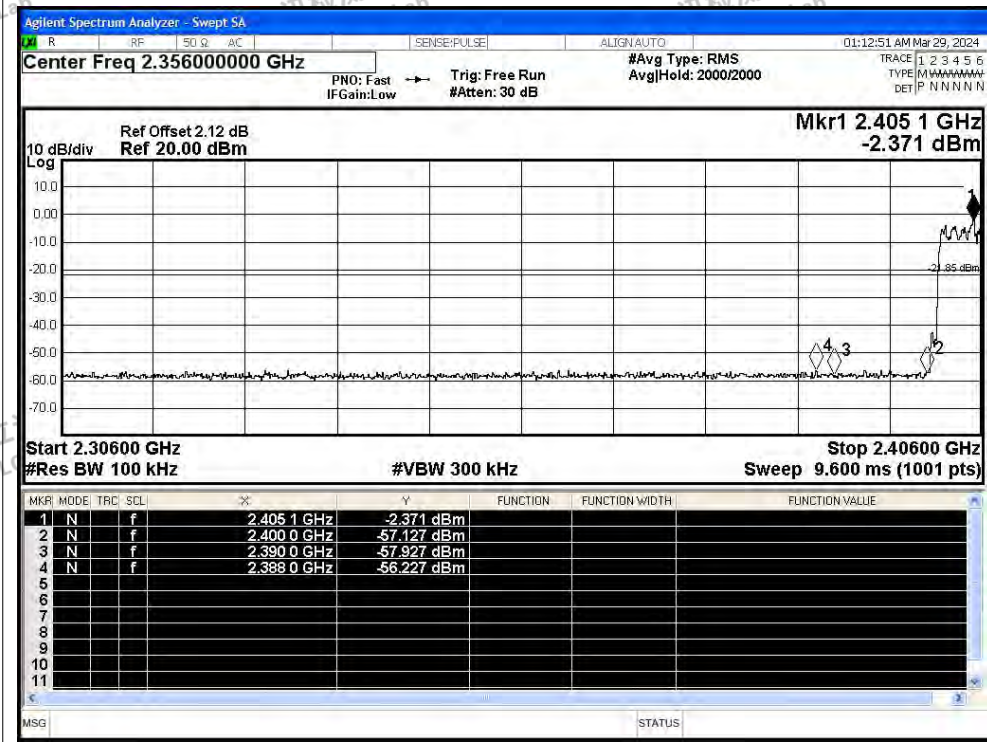




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

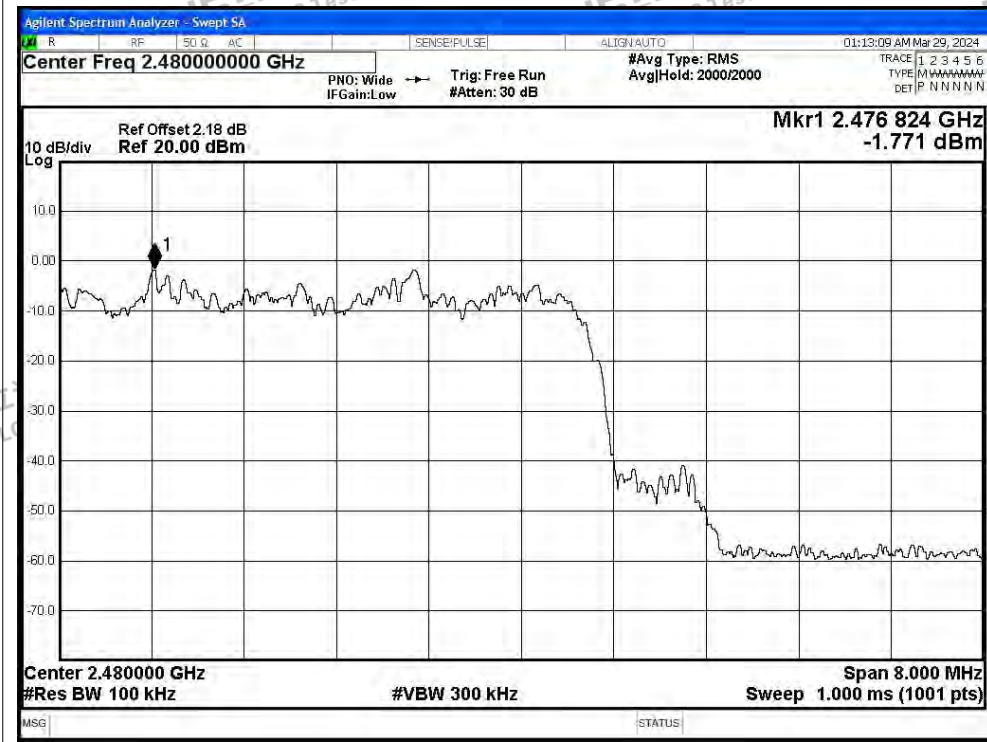


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

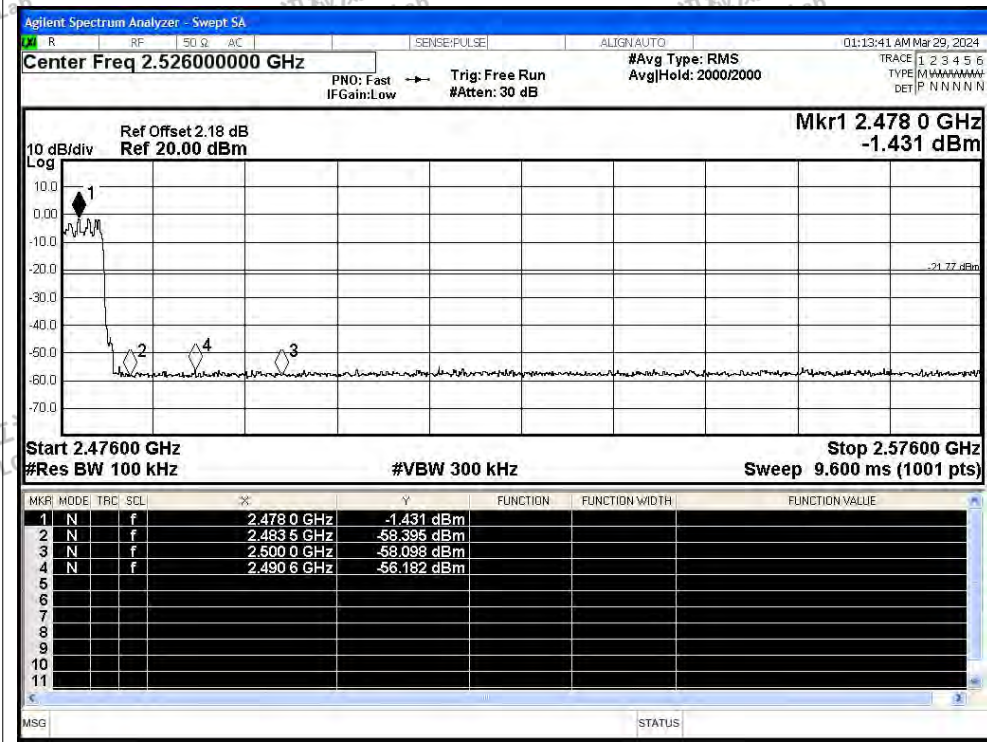




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-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	-54.37	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.78	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.55	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.88	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.63	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.05	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.6	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.11	-20	Pass
NVNT	3-DH5	2480	Ant1	-54.19	-20	Pass

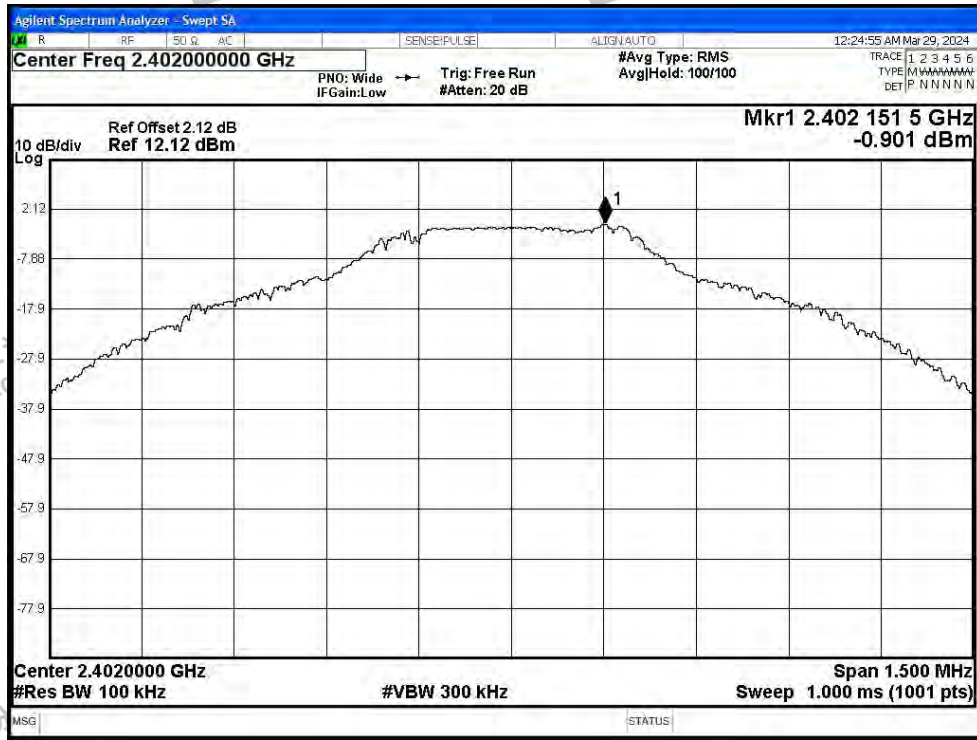


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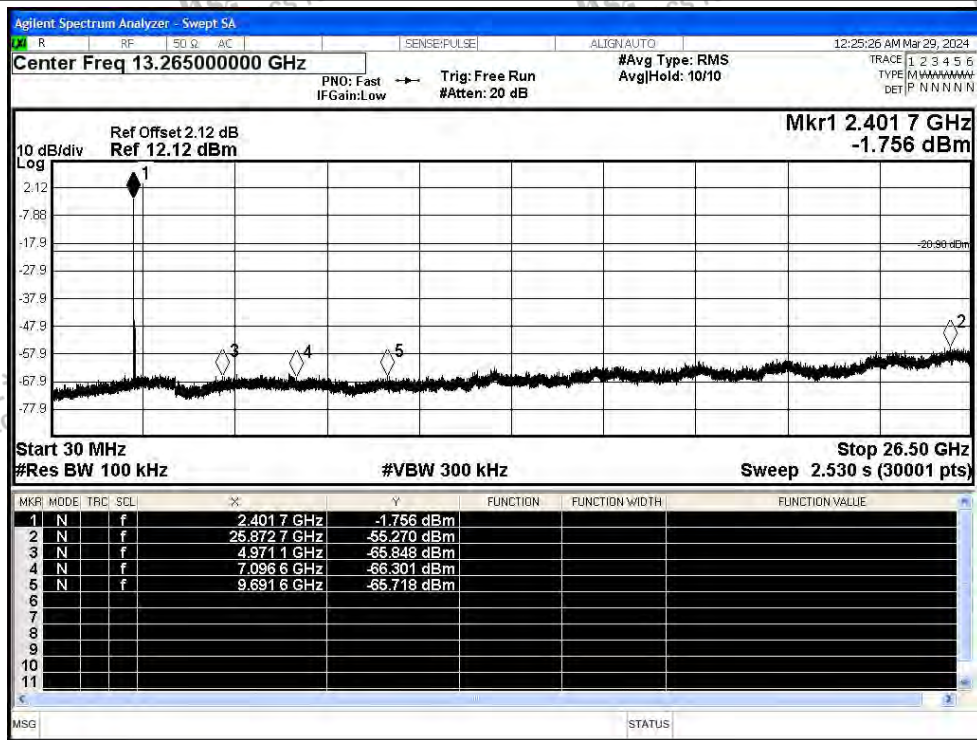


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

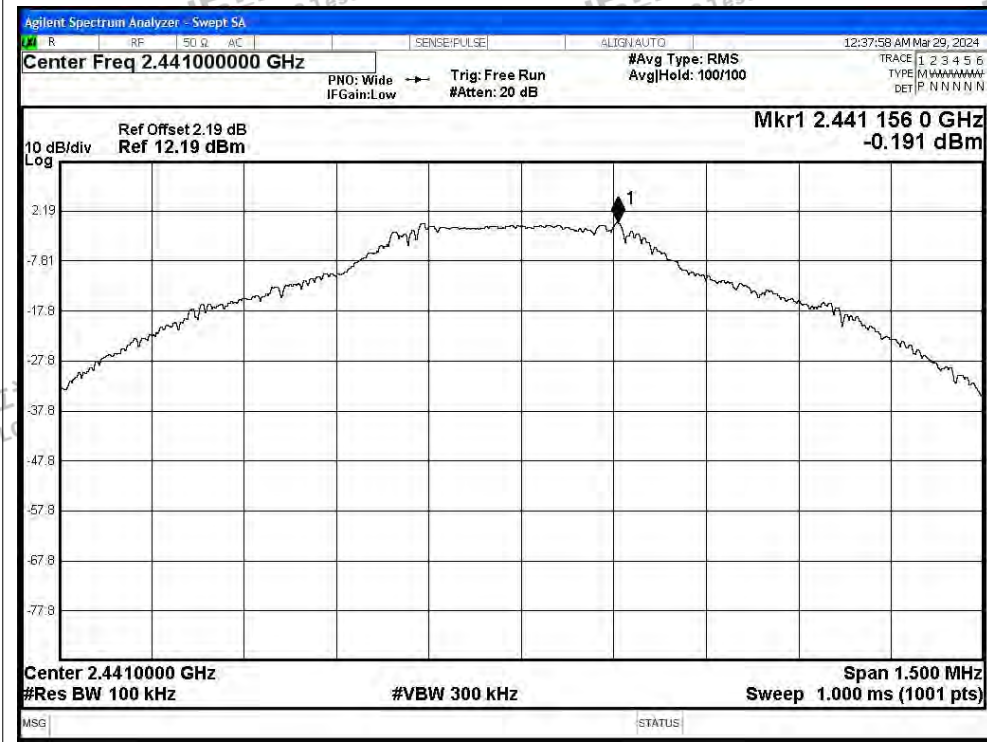


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

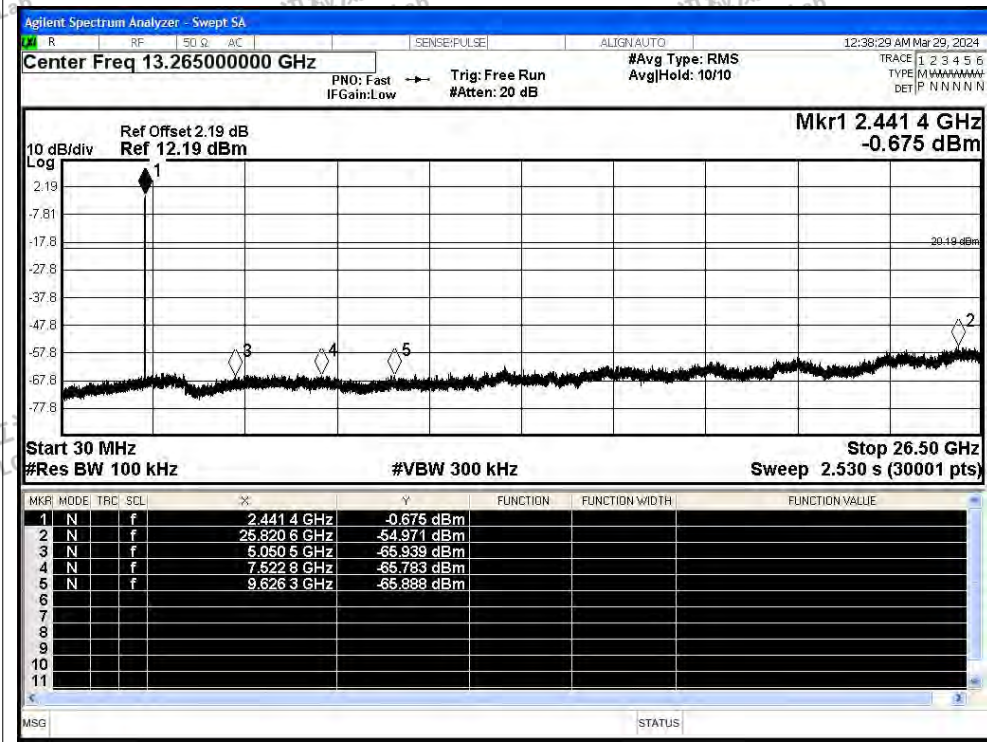




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

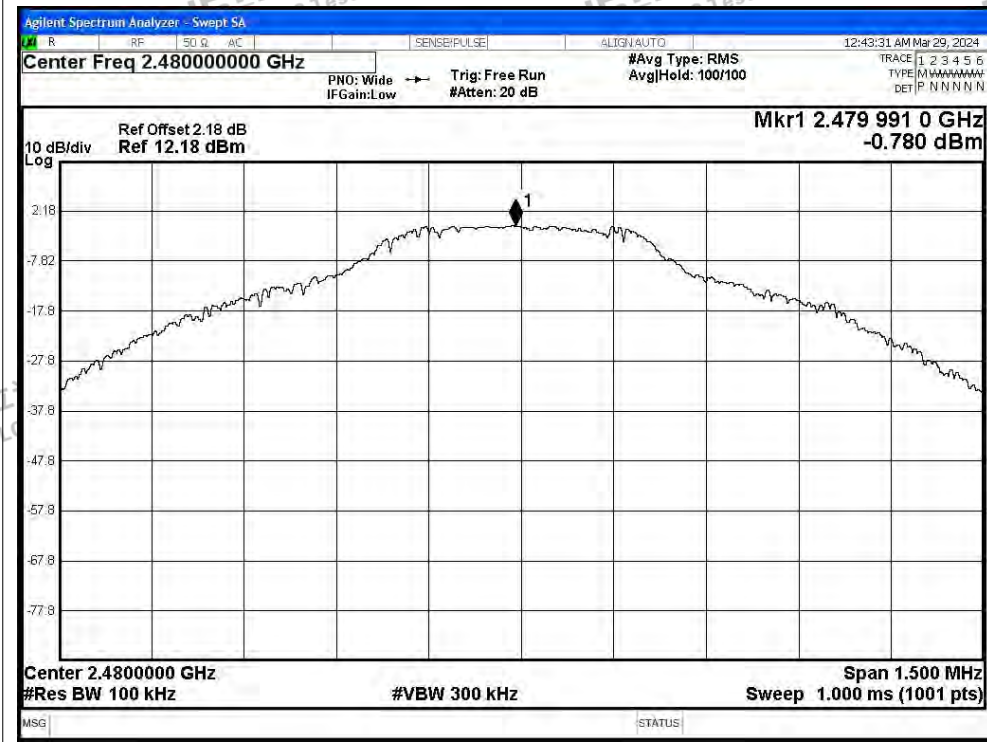


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

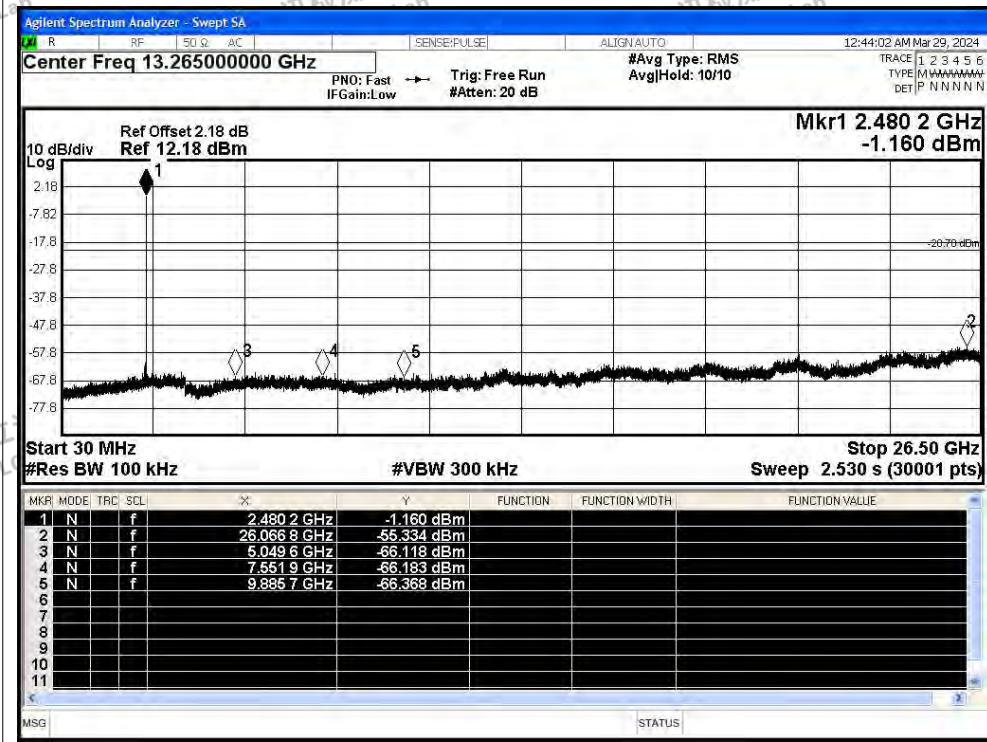




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

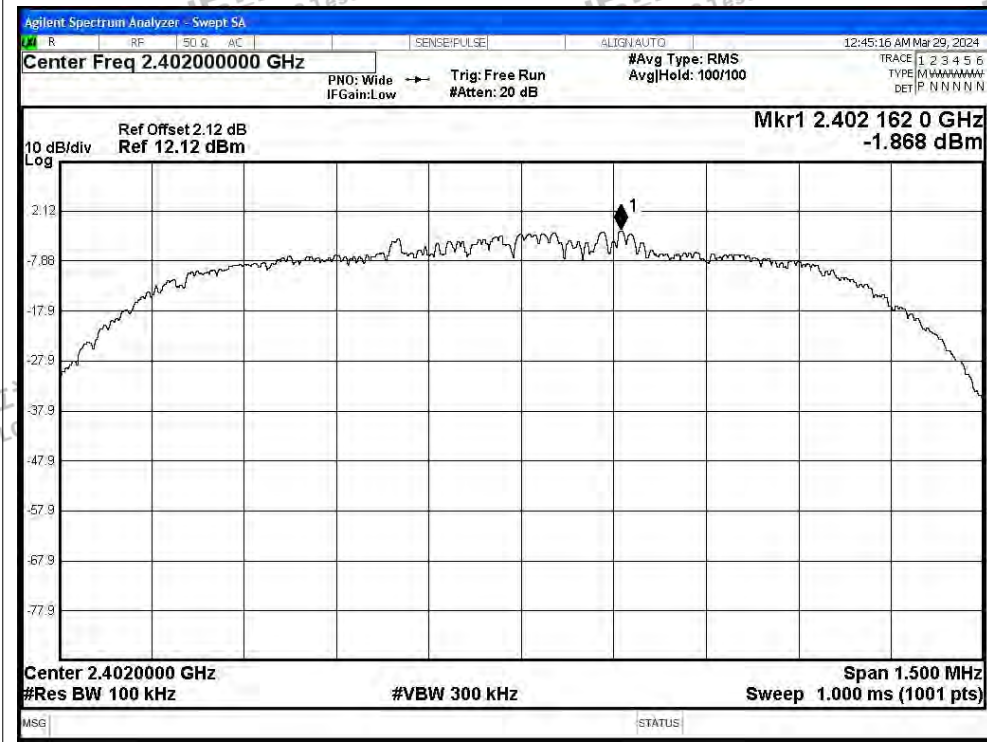


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

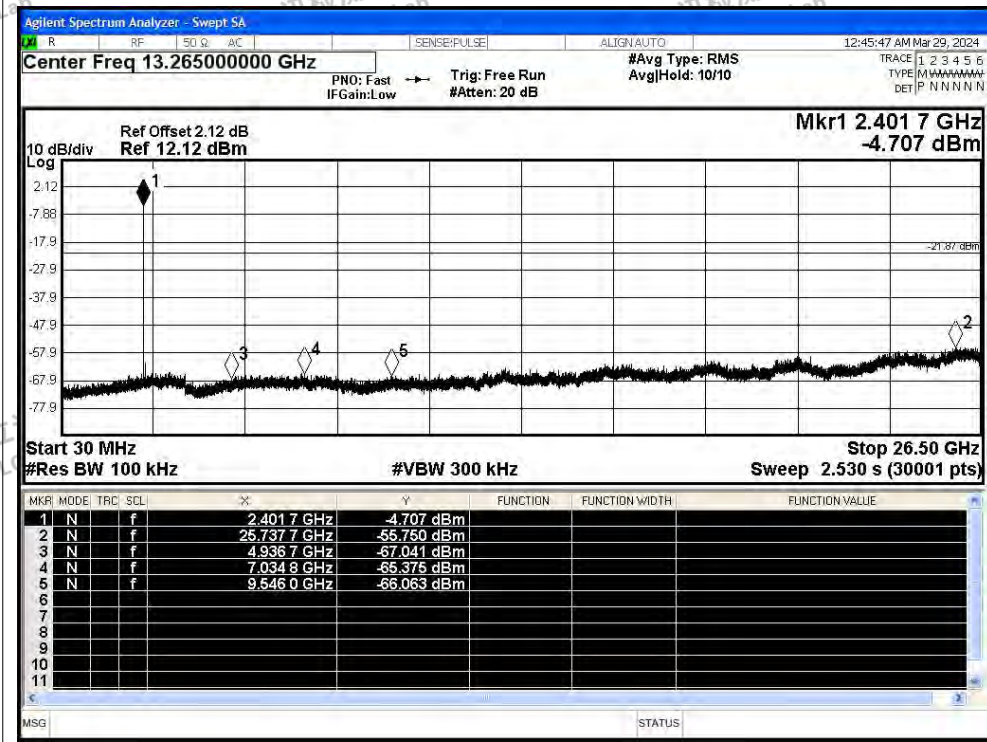




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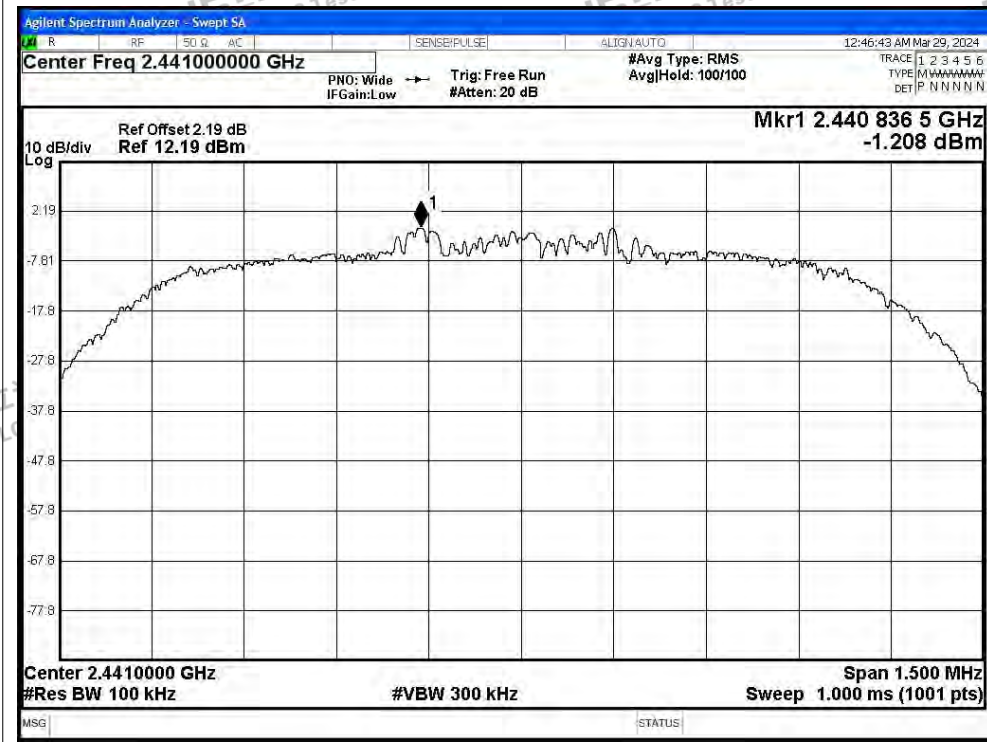


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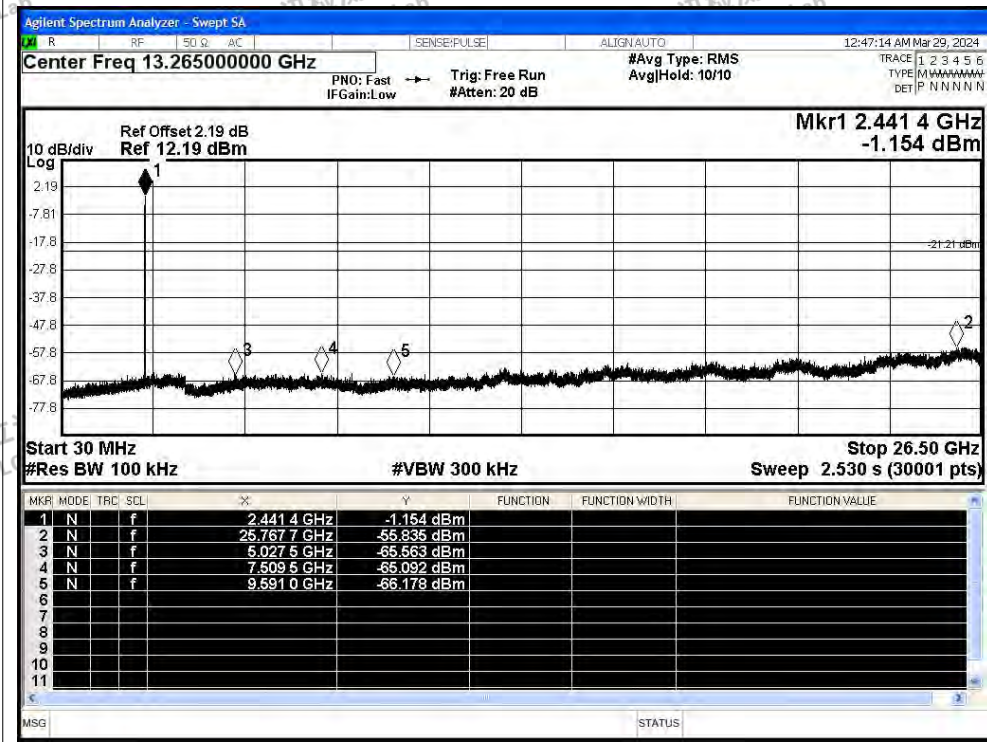




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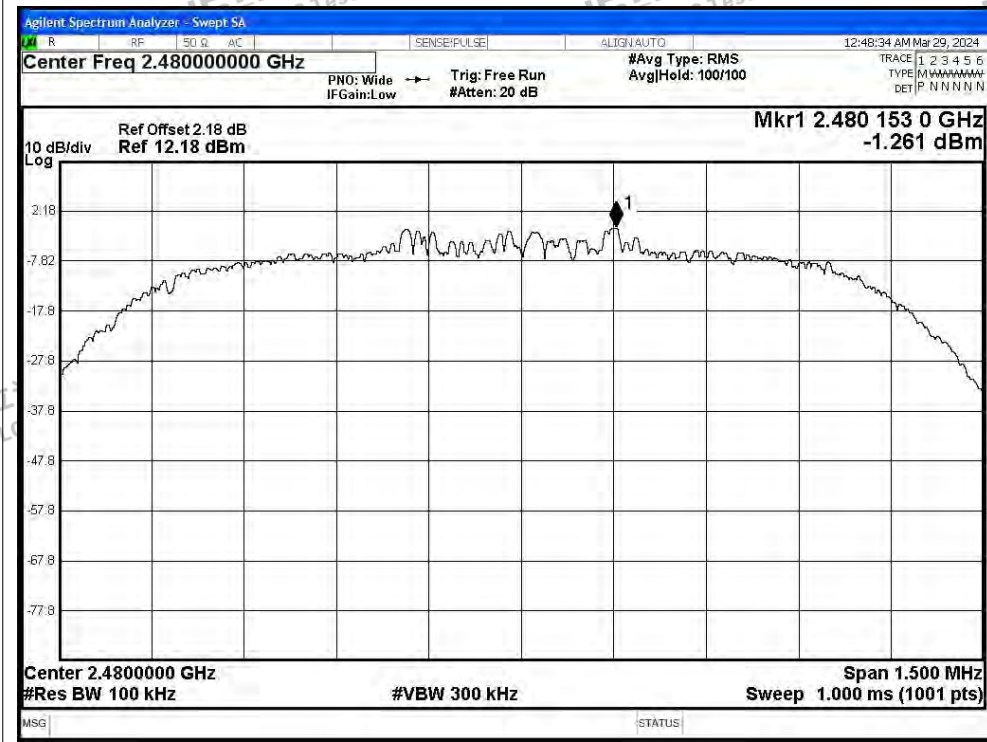


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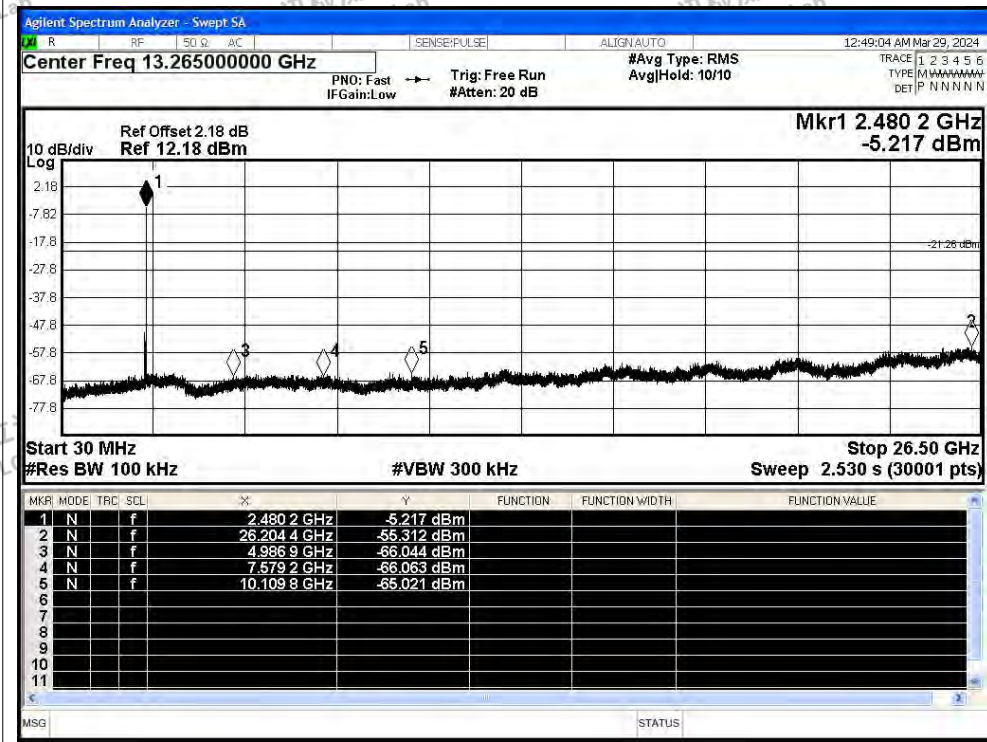




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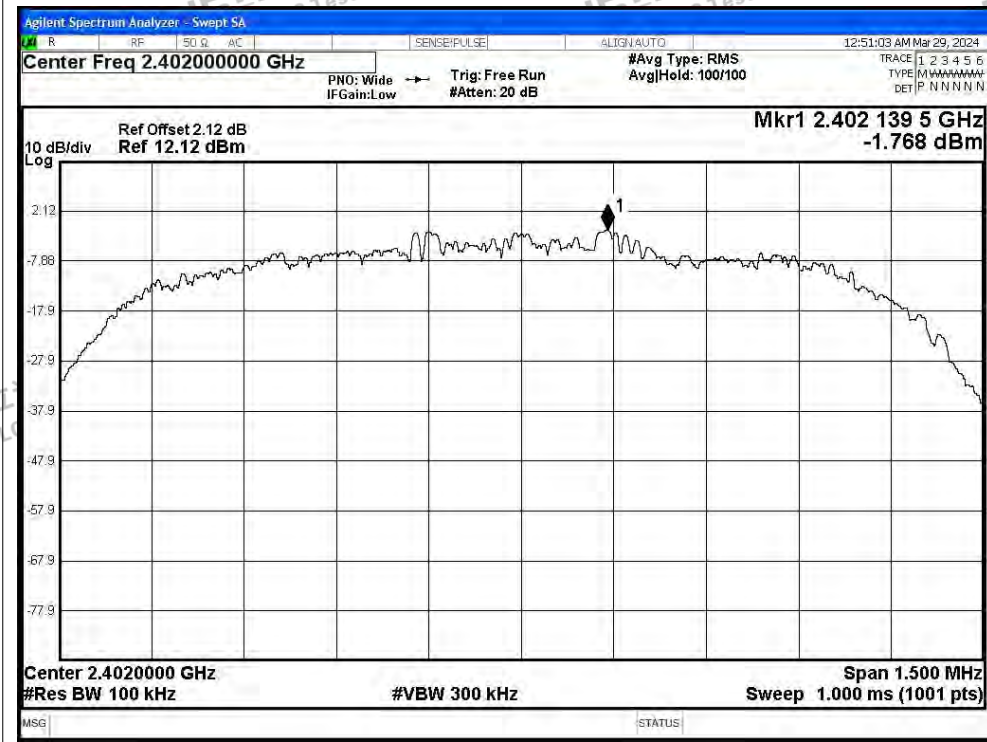


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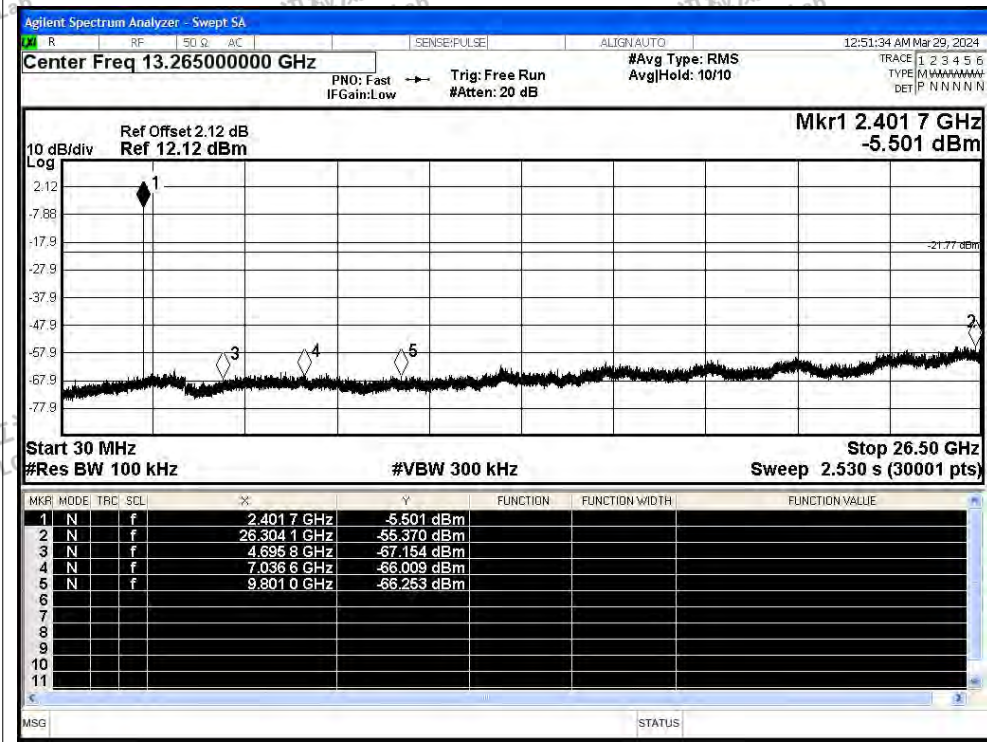




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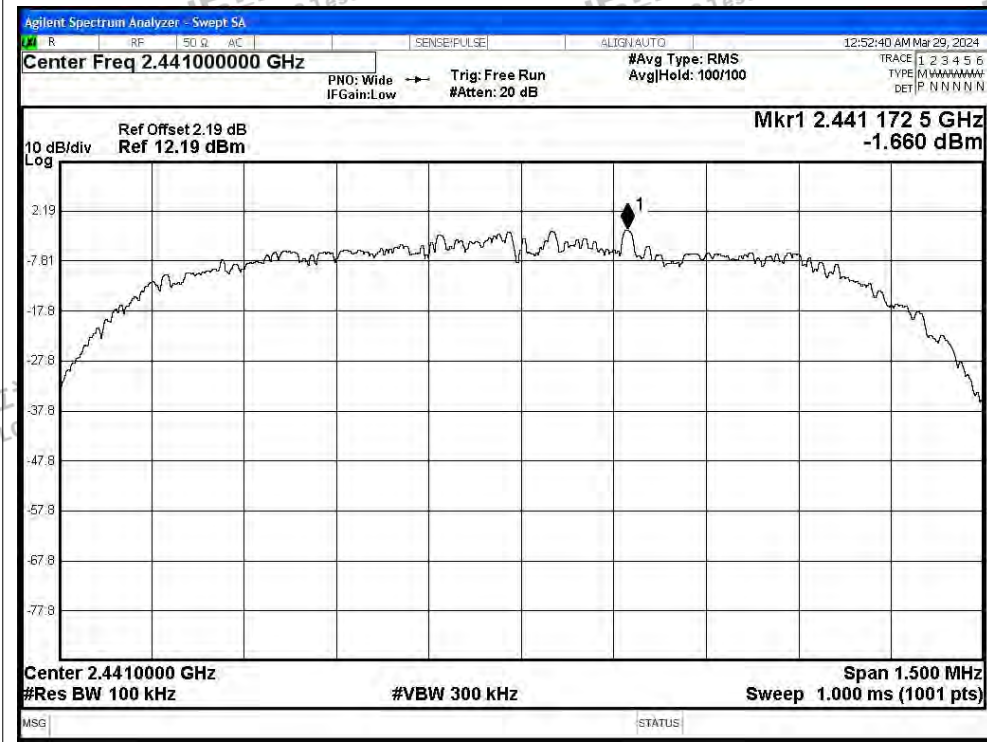


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

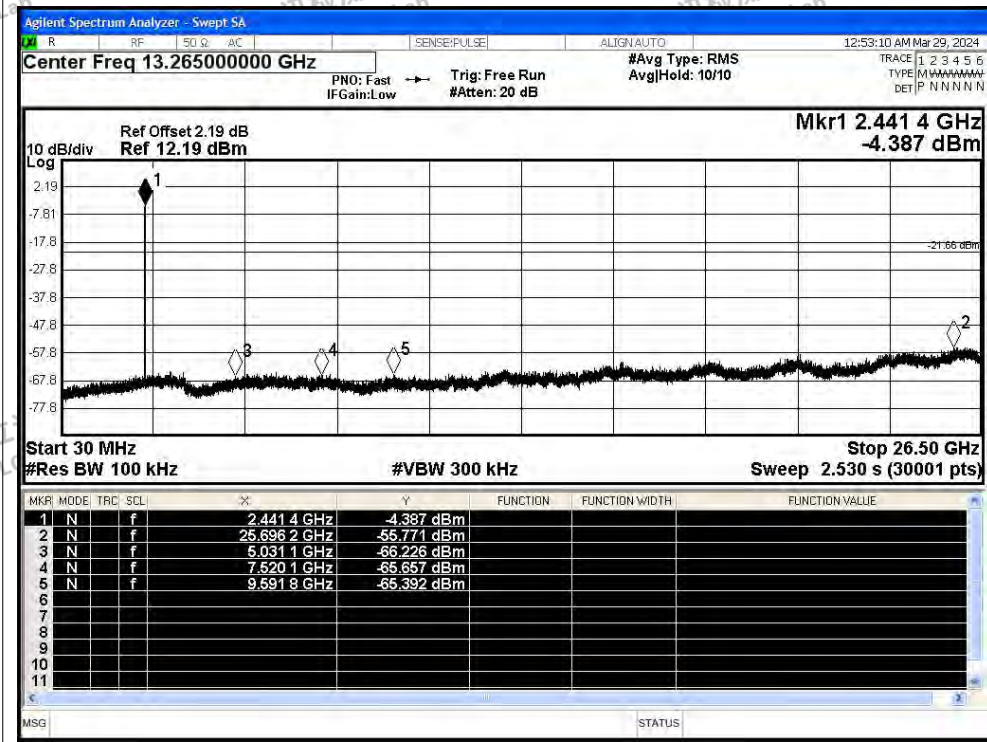




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

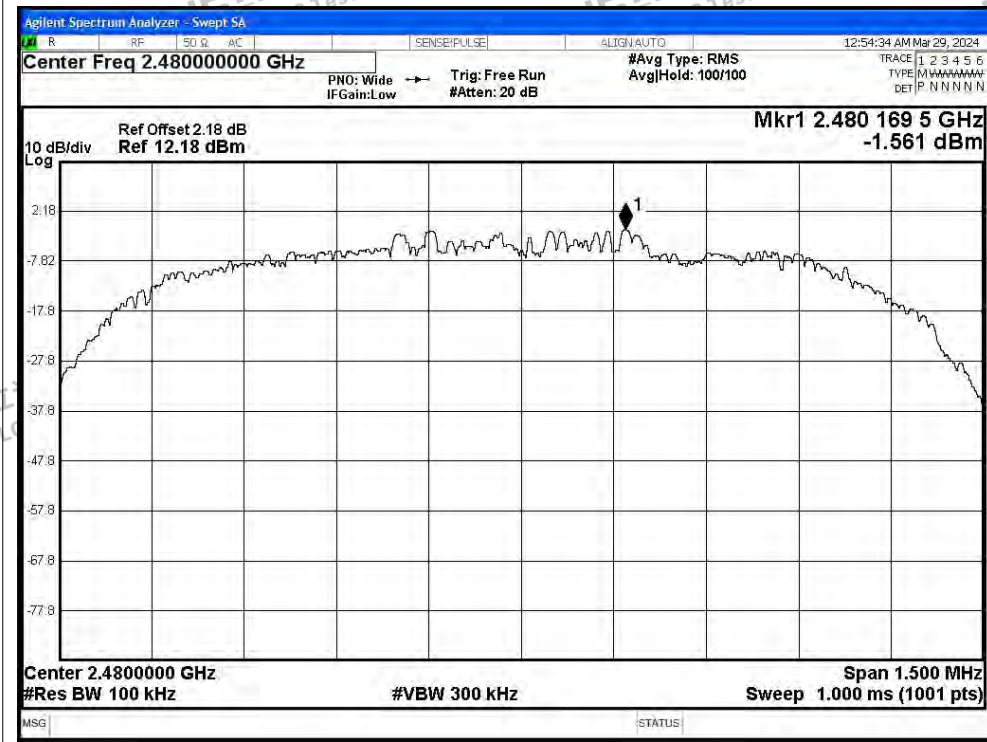


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

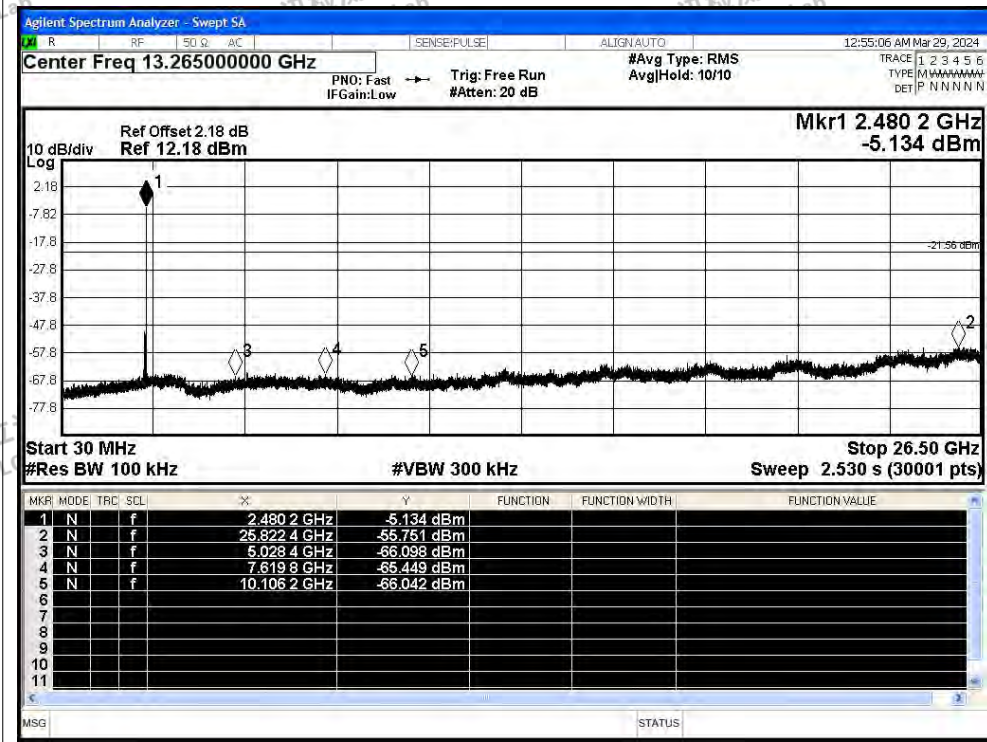




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.99	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.04	1.13	0.35
NVNT	3-DH5	2480	Ant1	77.01	1.13	0.35

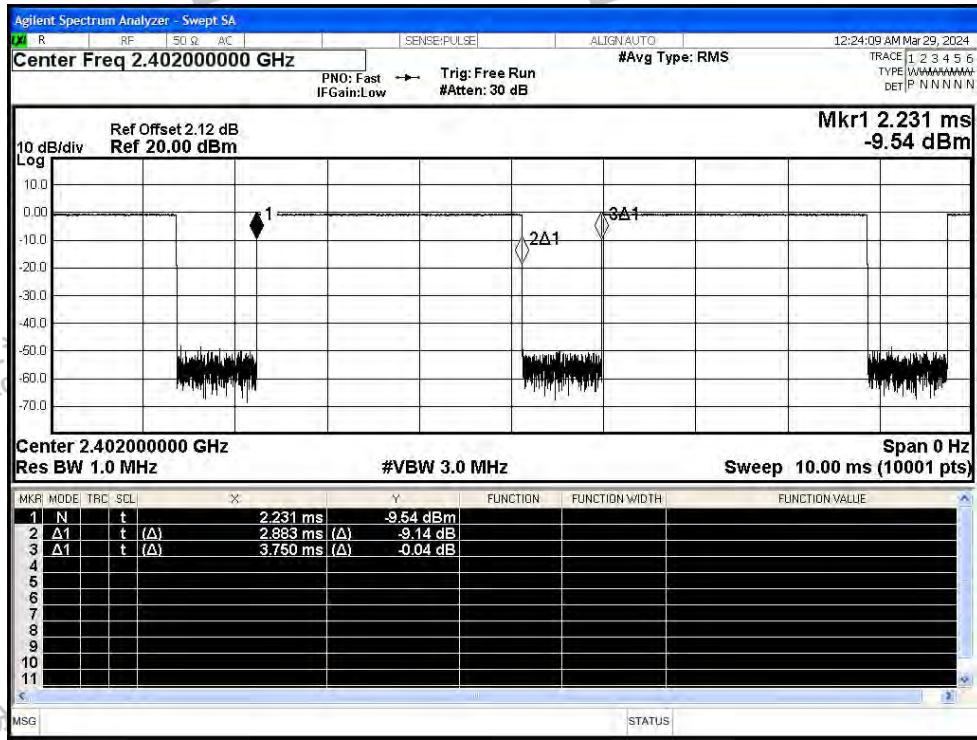


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 Scan code to check authenticity

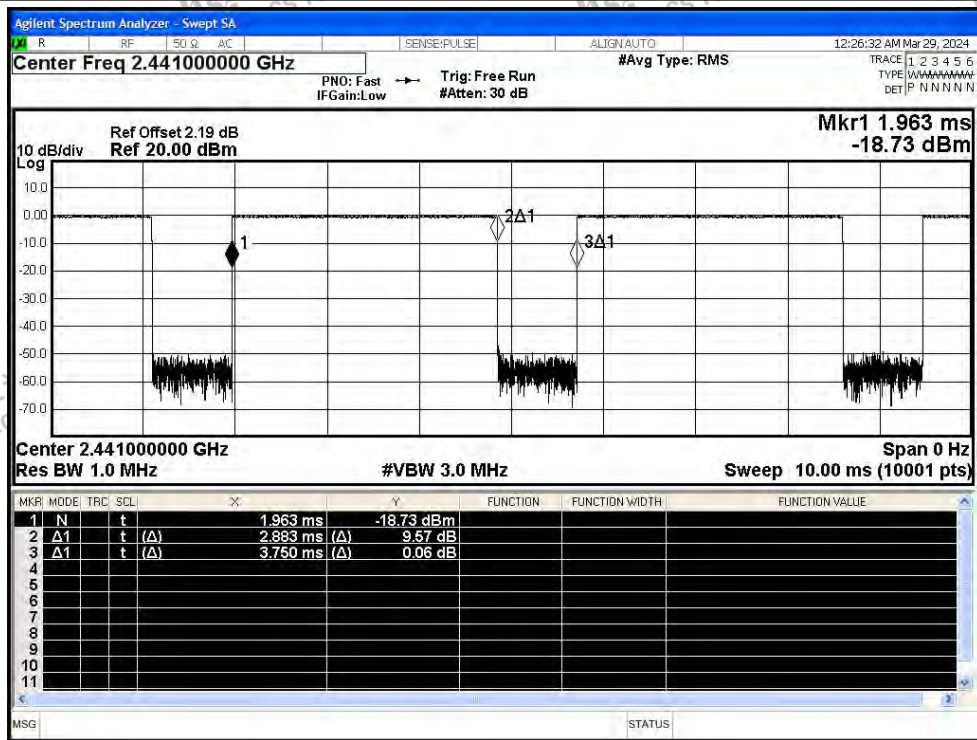


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

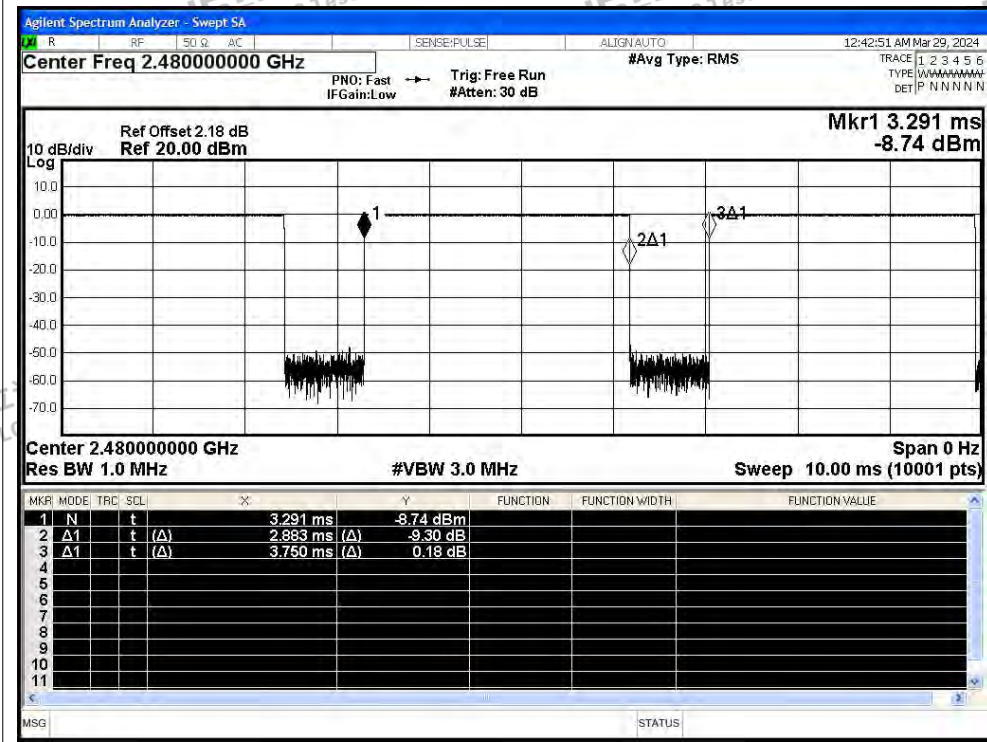


Duty Cycle NVNT 1-DH5 2441MHz Ant1

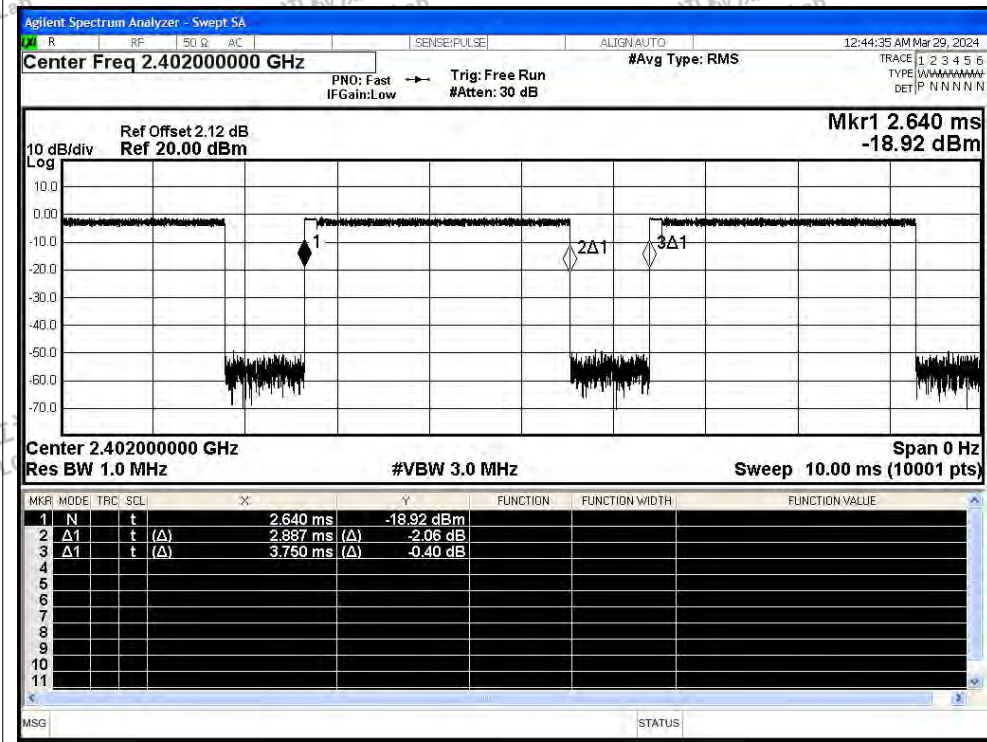




Duty Cycle NVNT 1-DH5 2480MHz Ant1

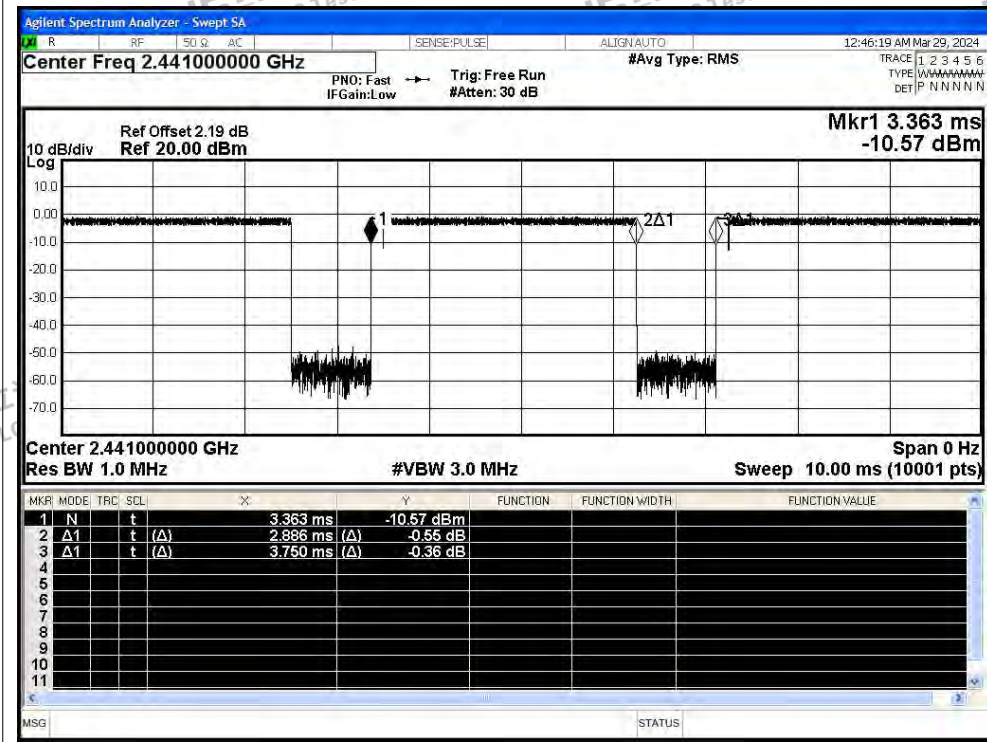


Duty Cycle NVNT 2-DH5 2402MHz Ant1

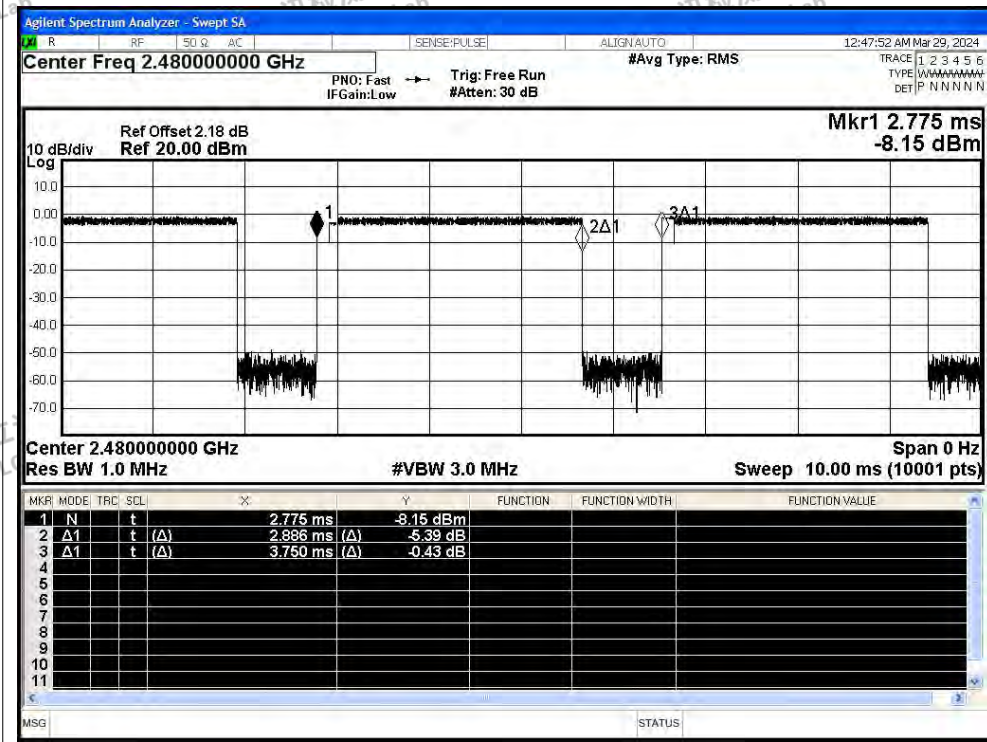




Duty Cycle NVNT 2-DH5 2441MHz Ant1

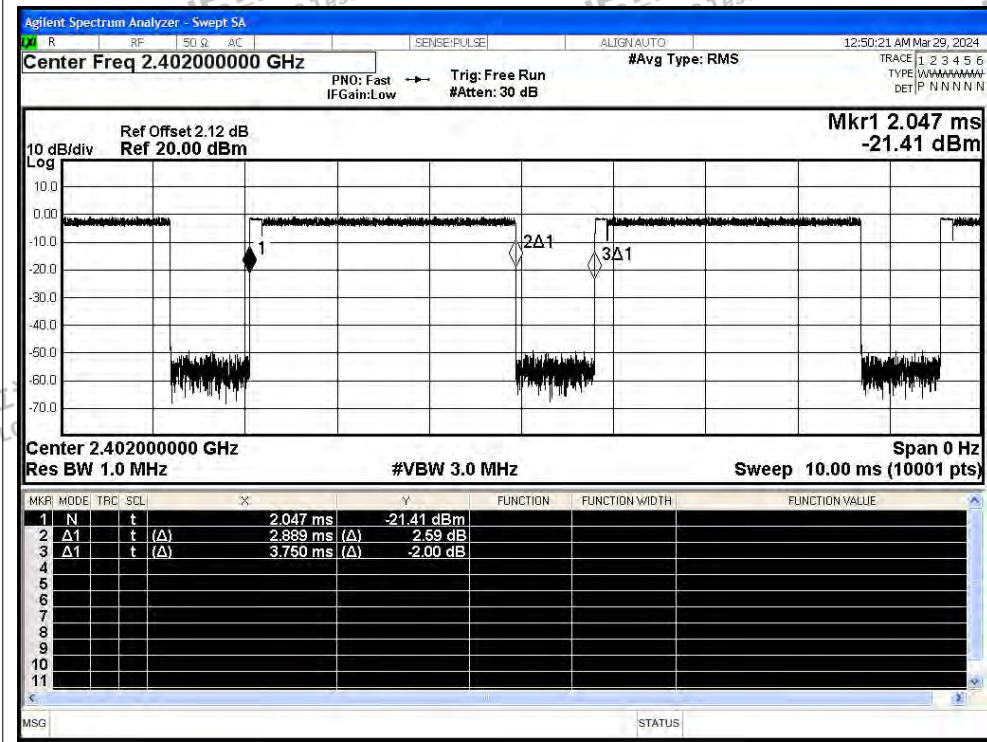


Duty Cycle NVNT 2-DH5 2480MHz Ant1

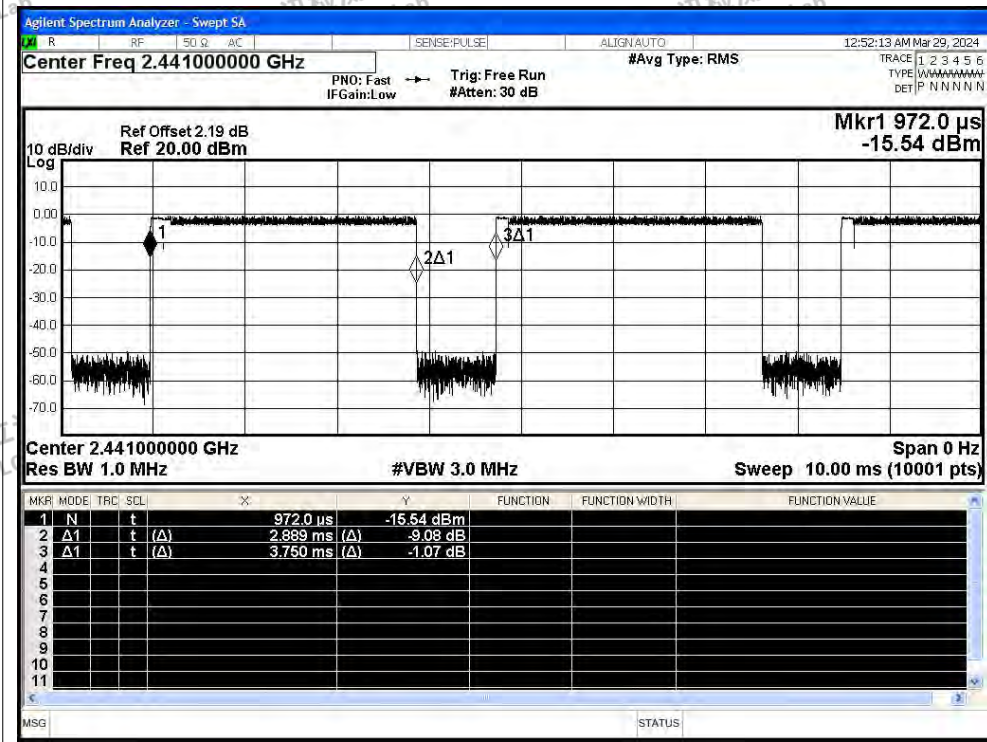




Duty Cycle NVNT 3-DH5 2402MHz Ant1

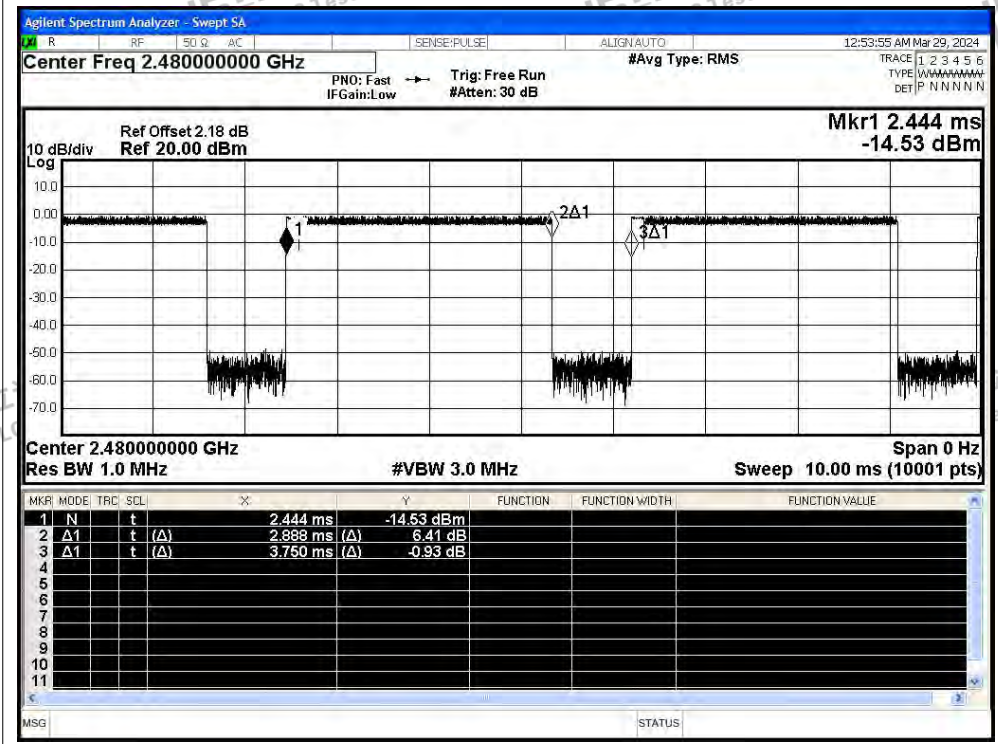


Duty Cycle NVNT 3-DH5 2441MHz Ant1





Duty Cycle NVNT 3-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	-51.78	2	-	45.48	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.64	2	1.14	39.76	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2341.392	-47.48	2	-	49.78	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.568	-57.53	2	1.14	40.87	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.59	2	-	47.67	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.53	2	1.14	39.87	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.92	2	-	48.34	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.97	2	1.14	40.43	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.68	-47.21	2	-	50.05	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.944	-57.19	2	1.14	41.21	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.31	2	-	46.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.23	2	1.14	40.17	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.11	2	-	46.15	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.94	2	1.14	39.46	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.28	-47.12	2	-	50.14	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.528	-57.68	2	1.14	40.72	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.95	2	-	47.31	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.42	2	1.14	39.98	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.97	2	-	46.29	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.75	2	1.14	40.65	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2495.392	-47.14	2	-	50.12	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.016	-56.57	2	1.14	41.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.62	2	-	47.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.89	2	1.14	40.51	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.5	2	-	46.76	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.37	2	1.13	40.02	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2315.184	-47.37	2	-	49.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2372.592	-57.63	2	1.13	40.76	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.92	2	-	46.34	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.27	2	1.13	40.12	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.3	2	-	47.96	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.22	2	1.13	40.17	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2490.904	-46.96	2	-	50.3	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.424	-57.12	2	1.13	41.27	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.23	2	-	48.03	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.78	2	1.13	40.61	Average	54	Pass

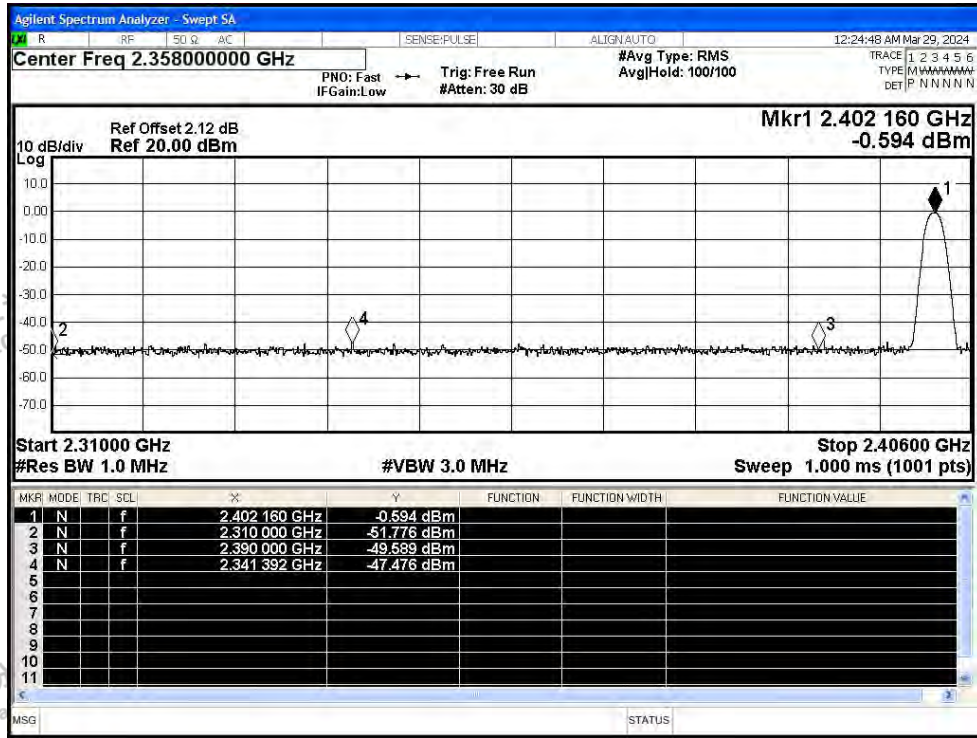


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 Scan code to check authenticity

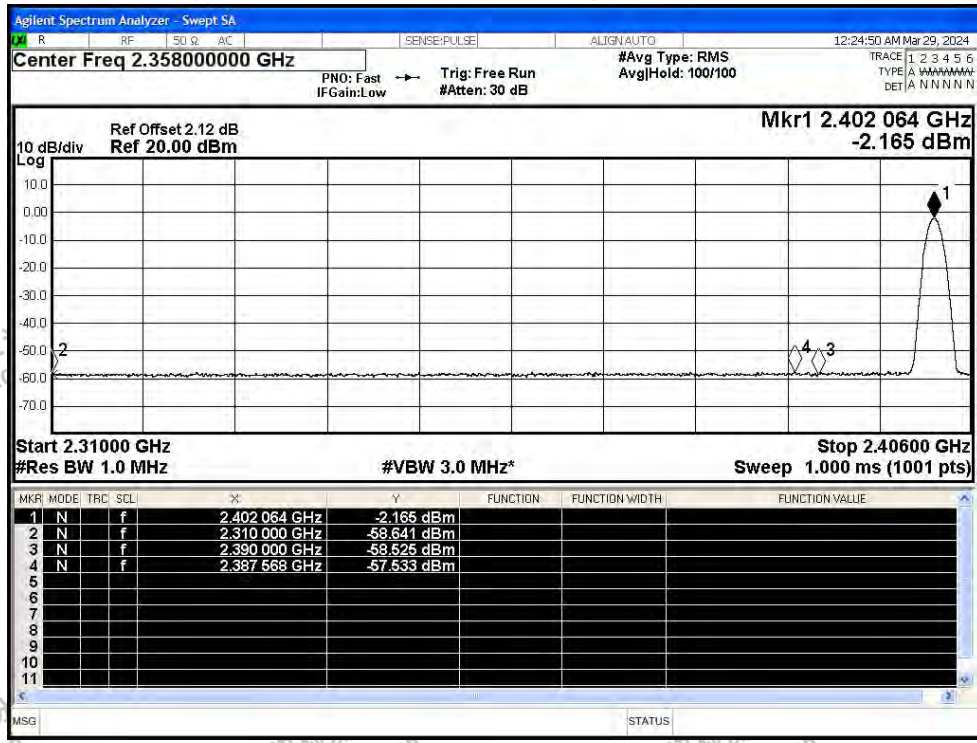


Test Graphs

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

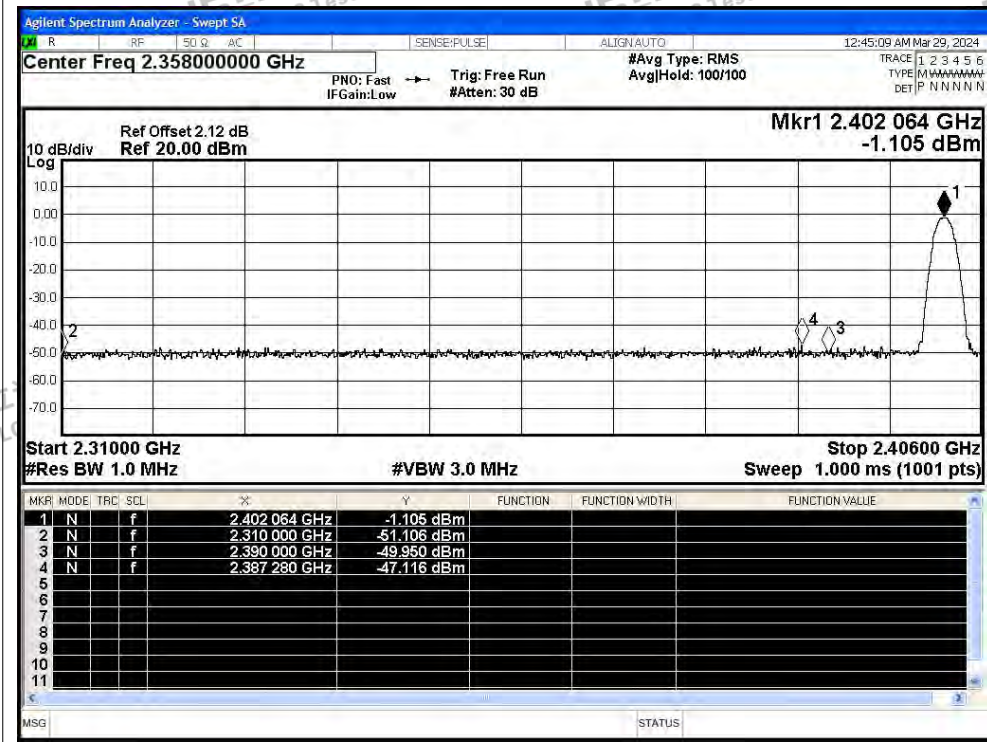


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

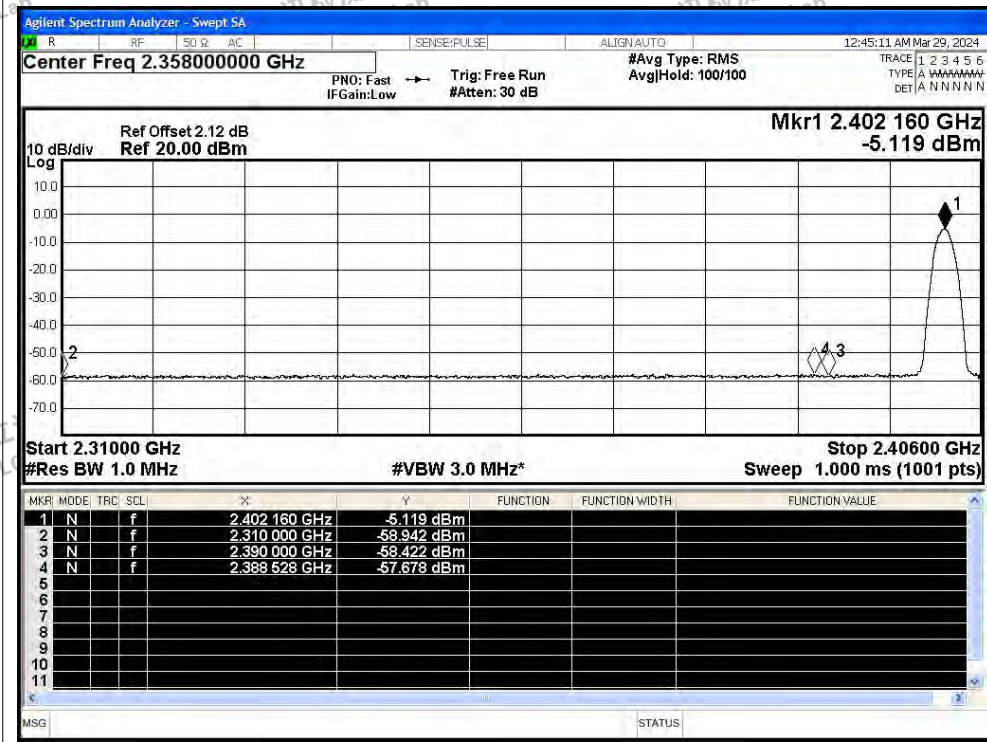




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

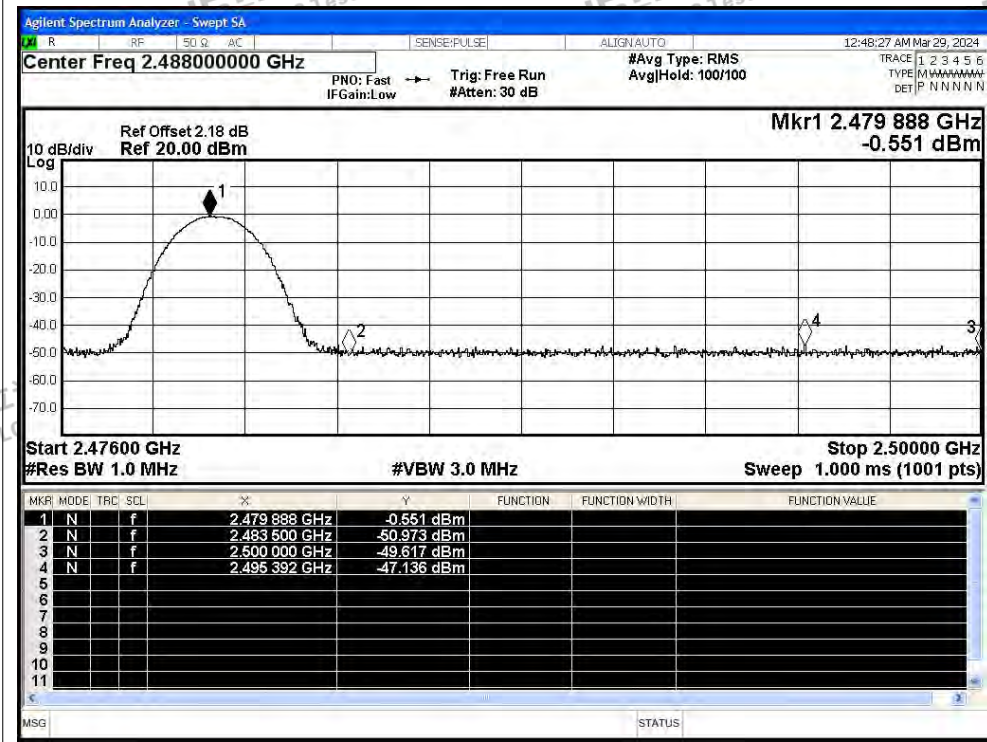


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

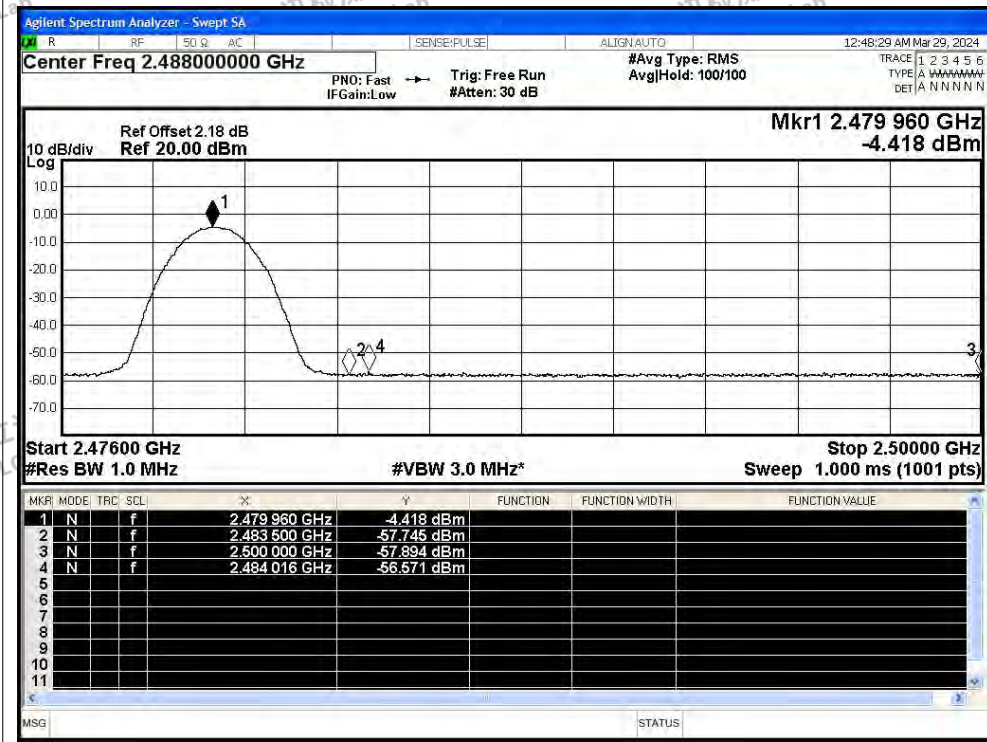




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

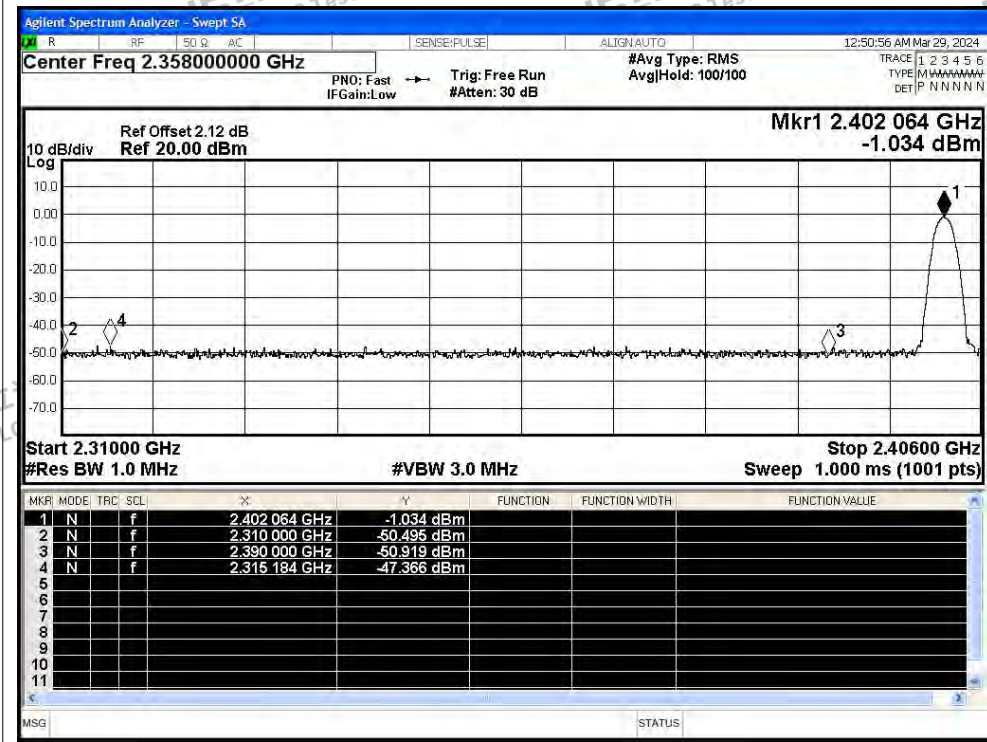


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

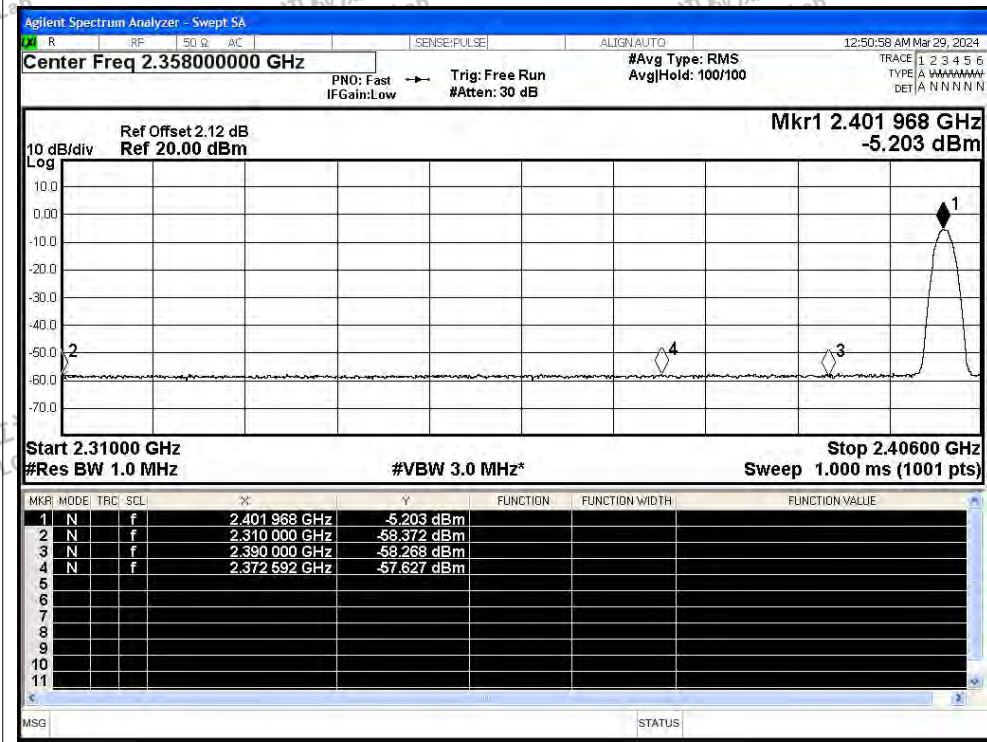




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

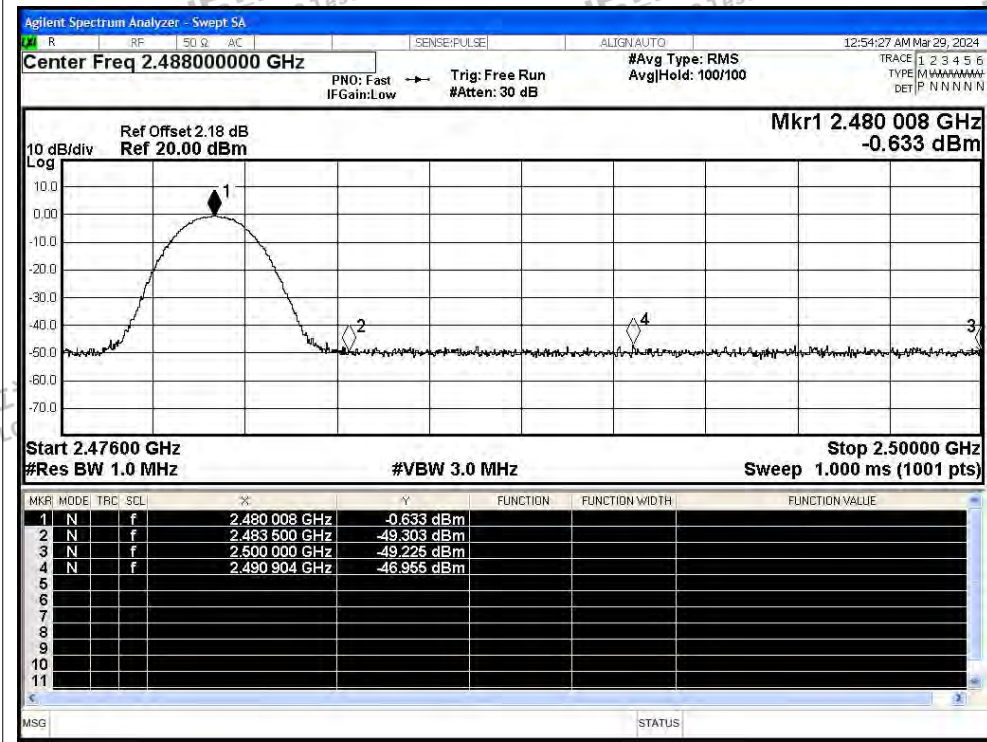


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

