



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bone conductive headphones

Test Model: X1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
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	0.94	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.962	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.949	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.292	N/A	Pass

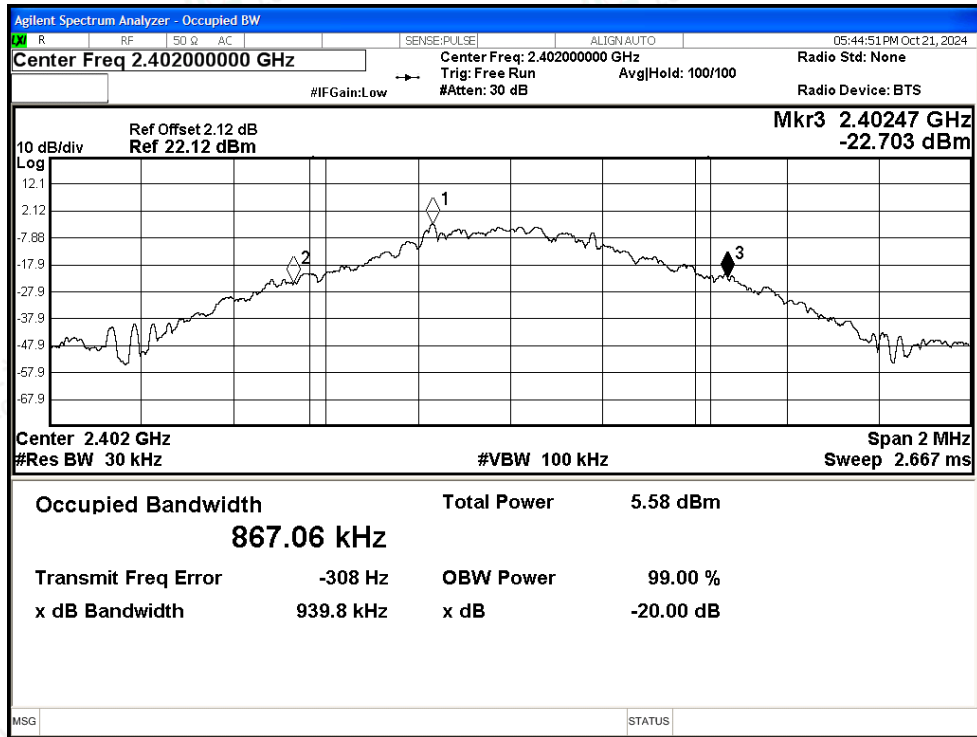


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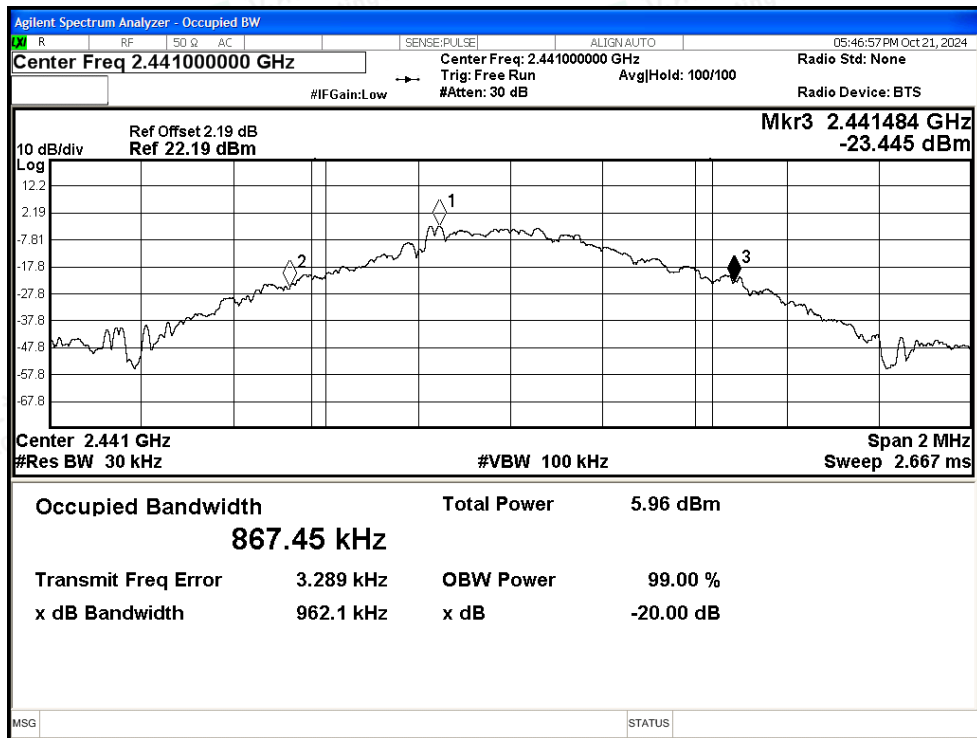


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

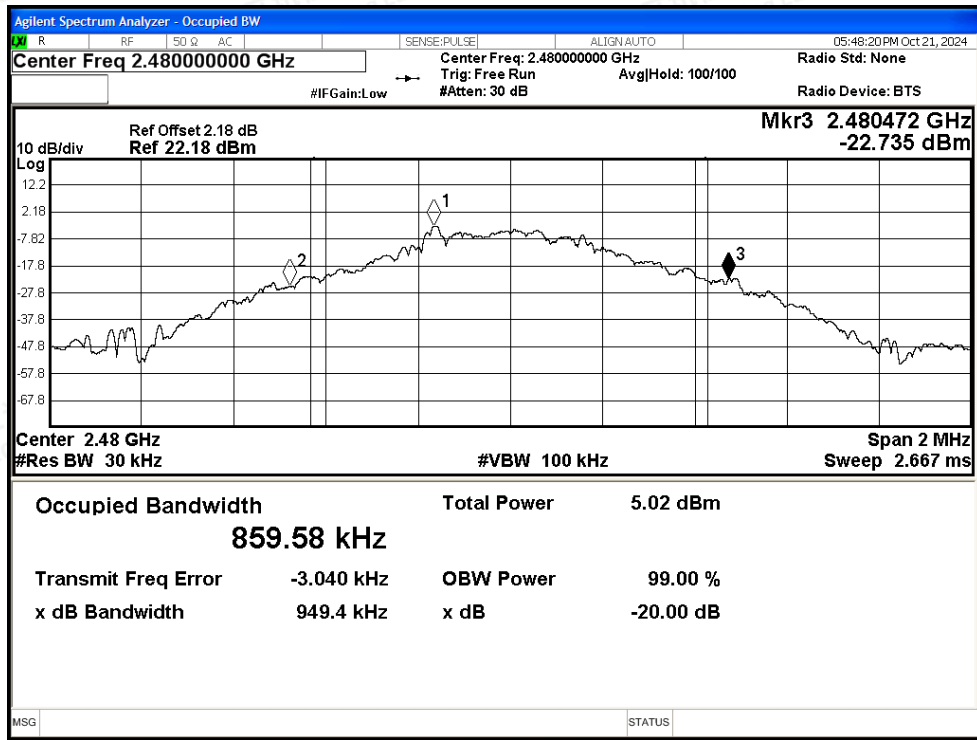


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

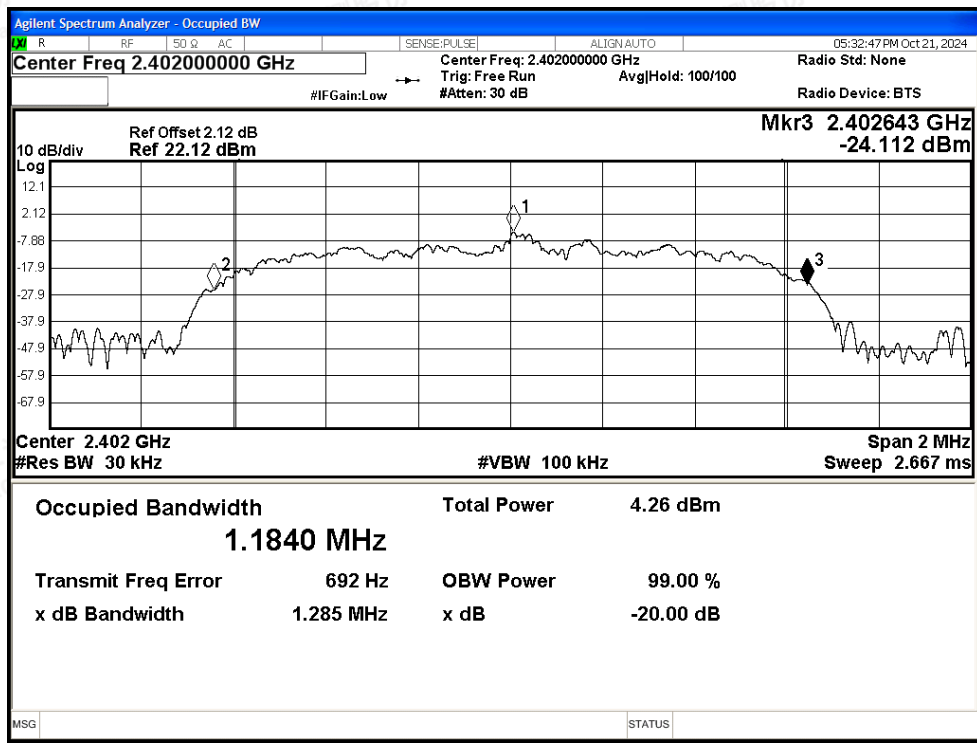




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

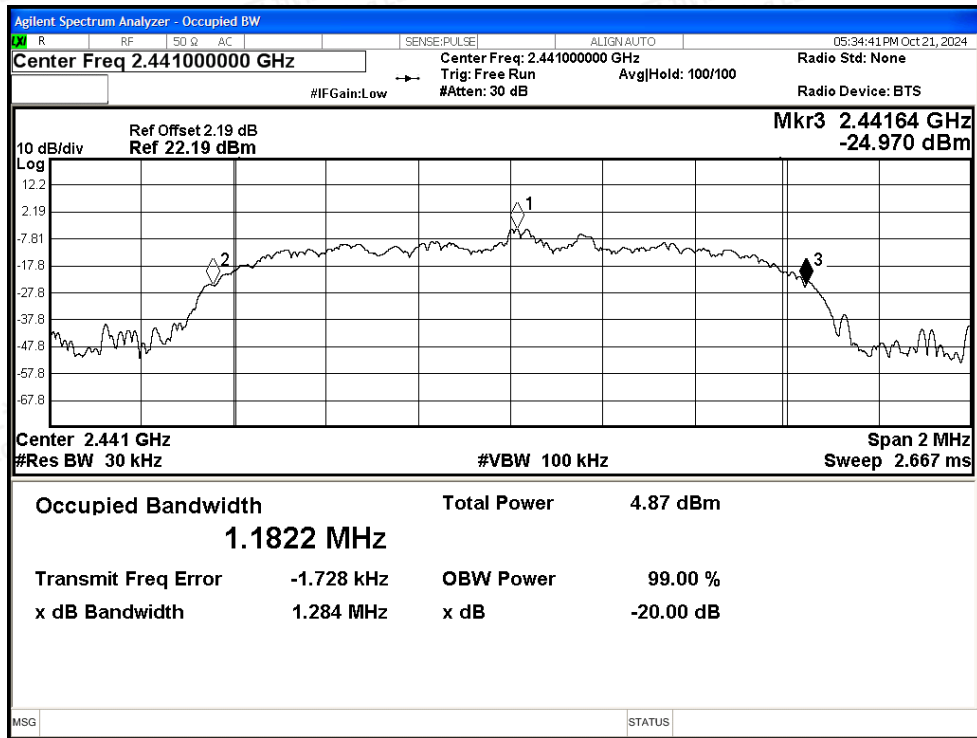


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

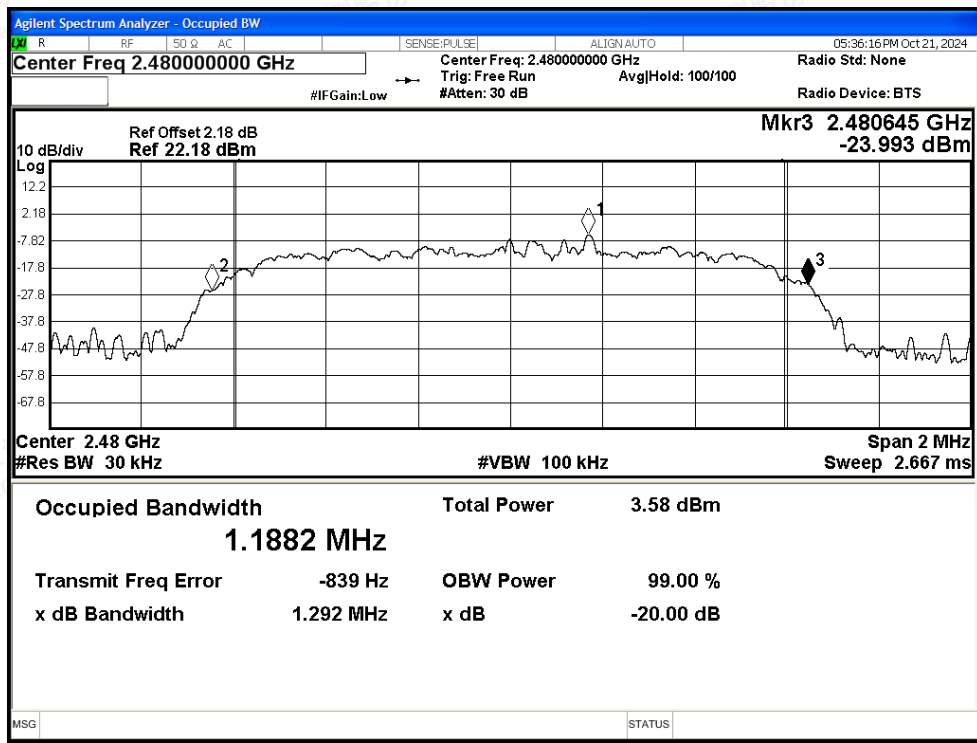




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-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	-0.72	21	Pass
NVNT	1-DH5	2441	Ant1	-0.37	21	Pass
NVNT	1-DH5	2480	Ant1	-1.6	21	Pass
NVNT	2-DH5	2402	Ant1	-0.06	21	Pass
NVNT	2-DH5	2441	Ant1	0.29	21	Pass
NVNT	2-DH5	2480	Ant1	-0.54	21	Pass

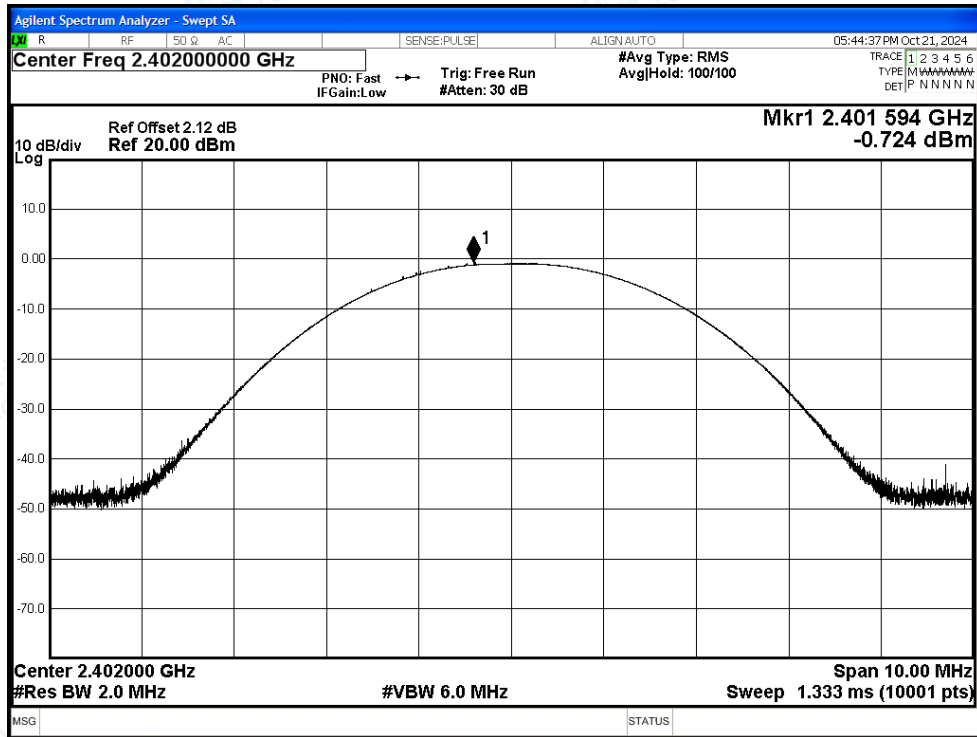


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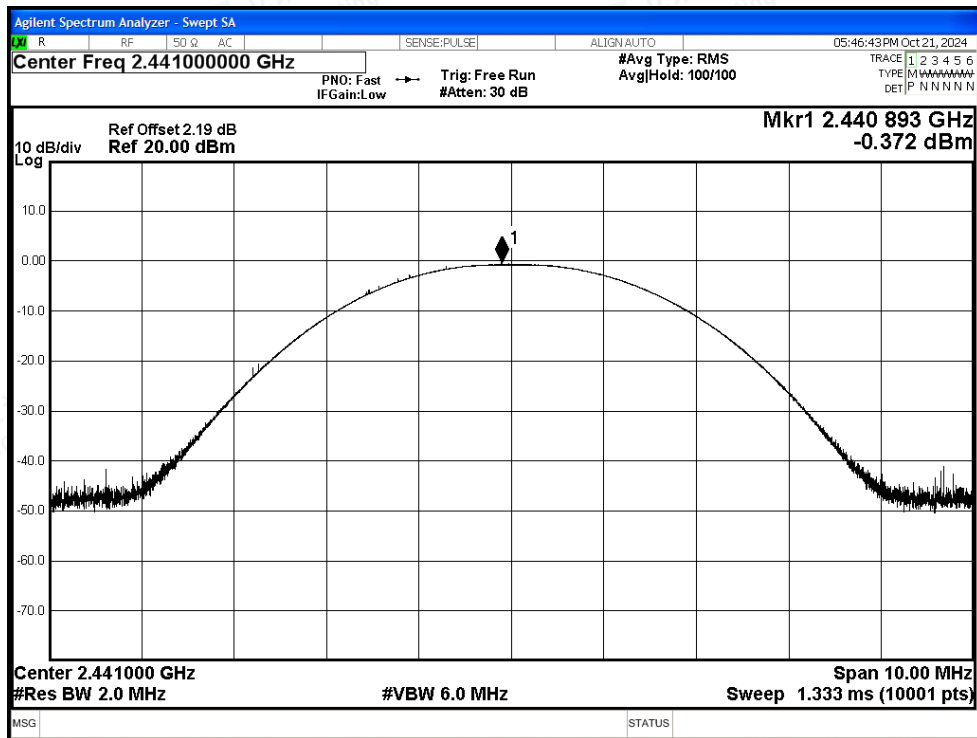


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

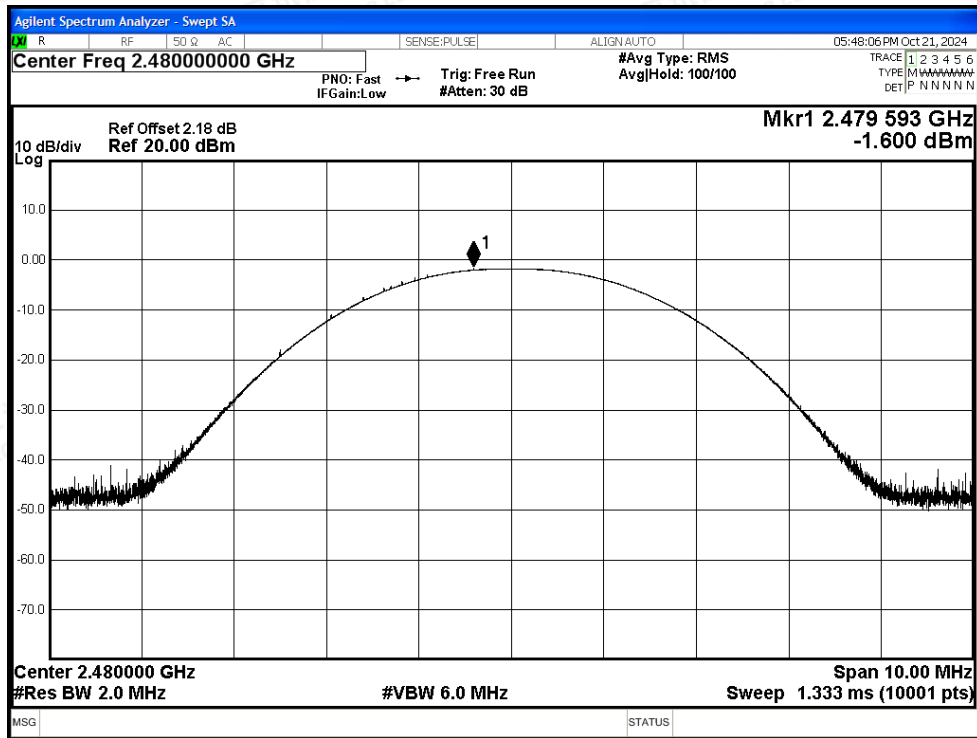


Power NVNT 1-DH5 2441MHz Ant1

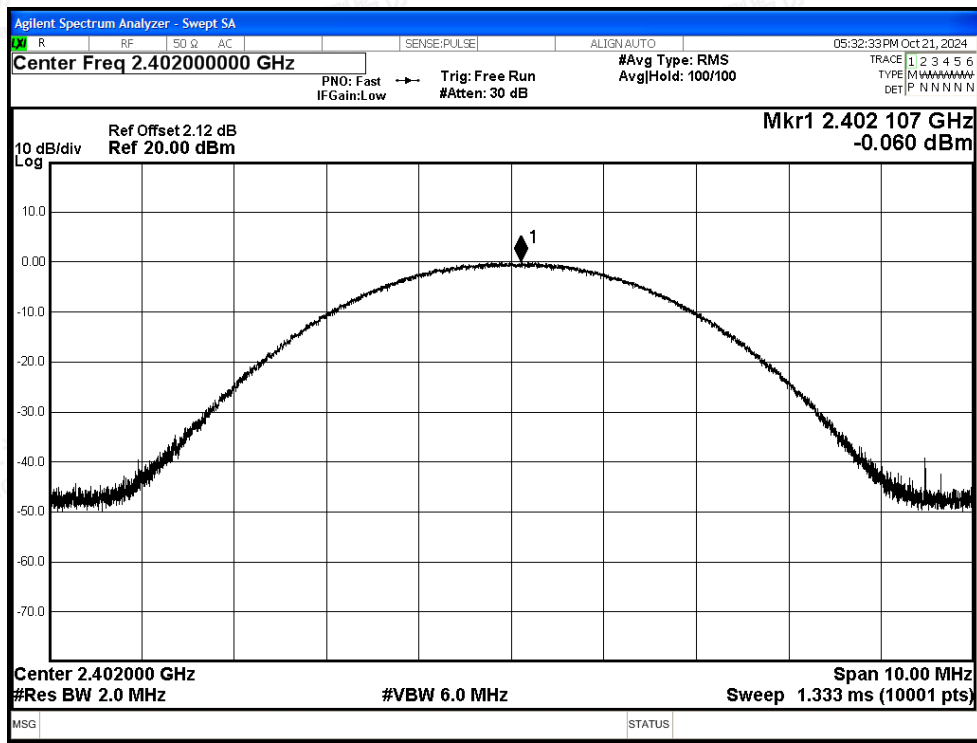




Power NVNT 1-DH5 2480MHz Ant1

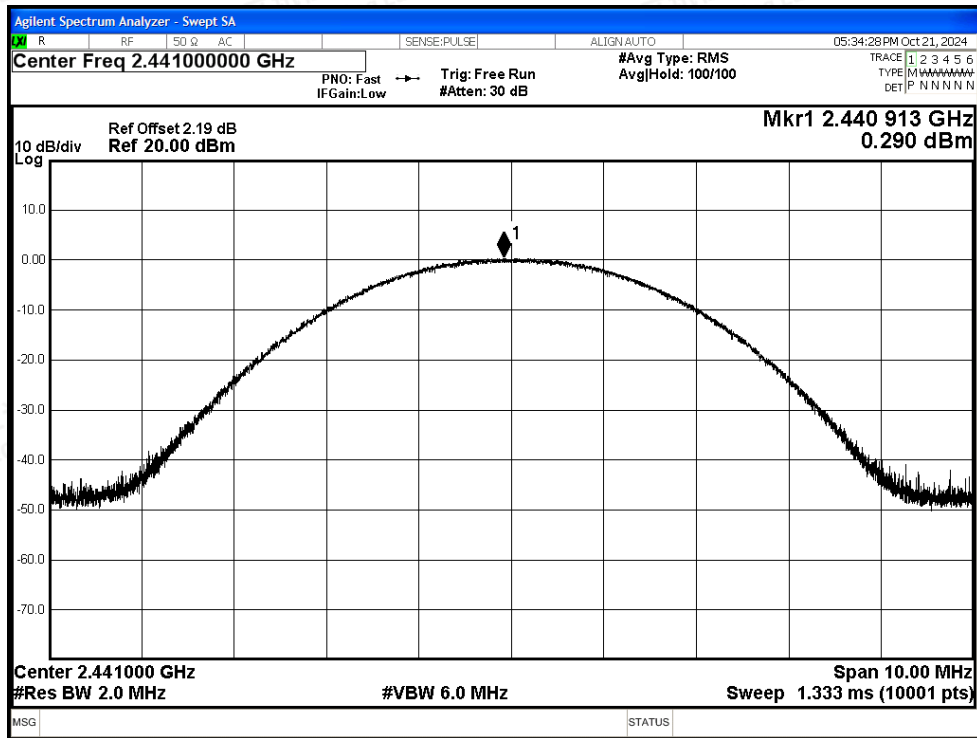


Power NVNT 2-DH5 2402MHz Ant1

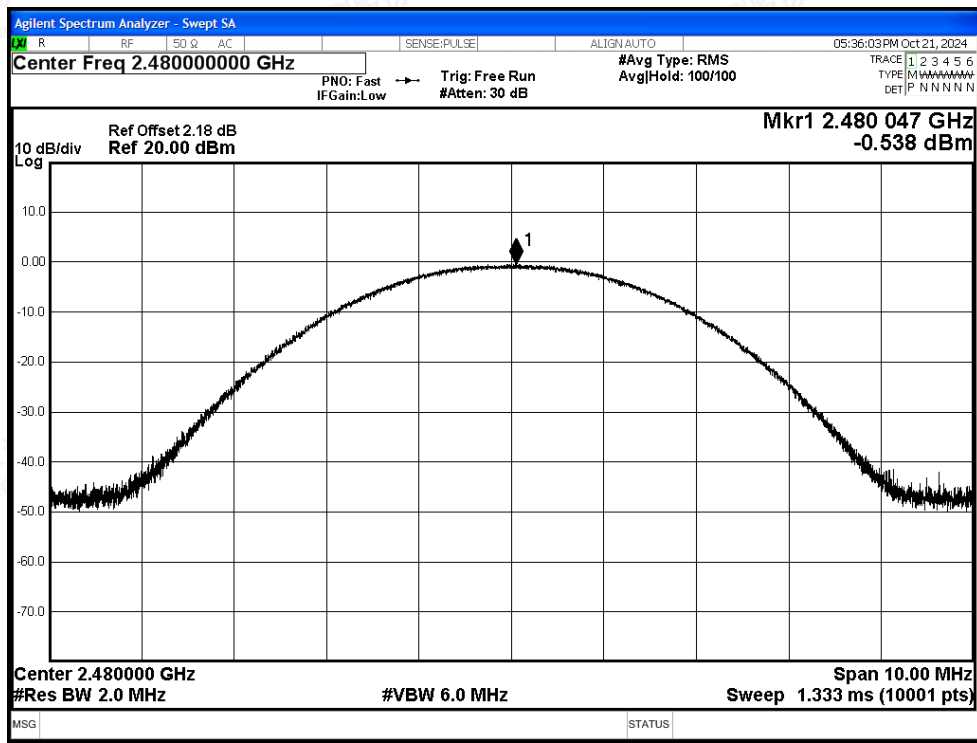




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.024	2403.026	1.002	0.627	Pass
NVNT	2-DH5	Ant1	2402.028	2403.028	1	0.857	Pass

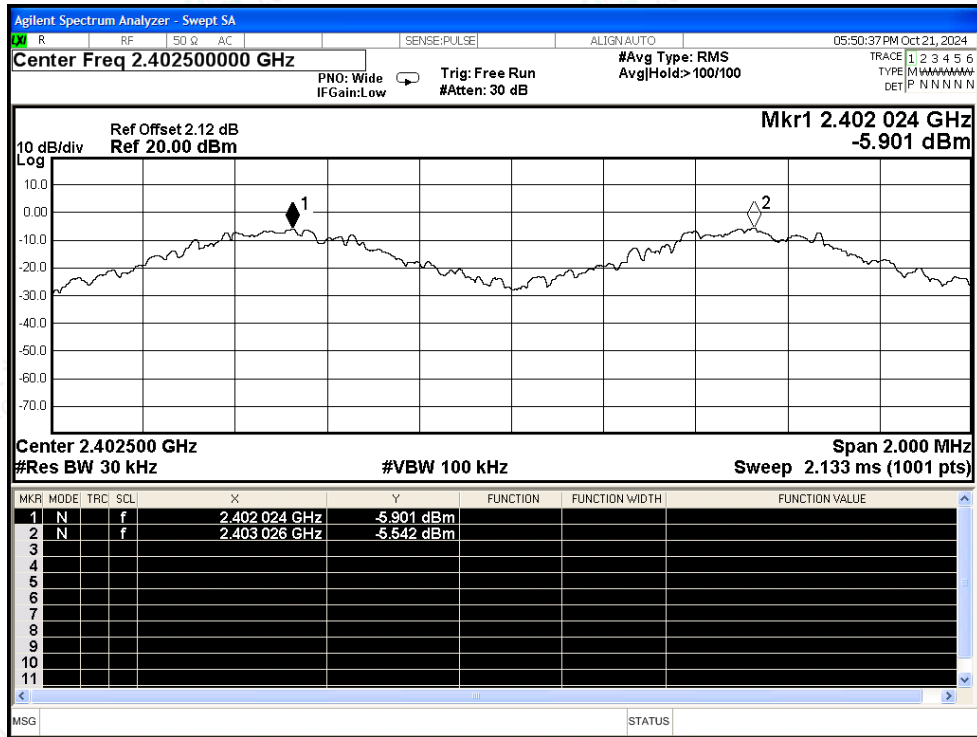


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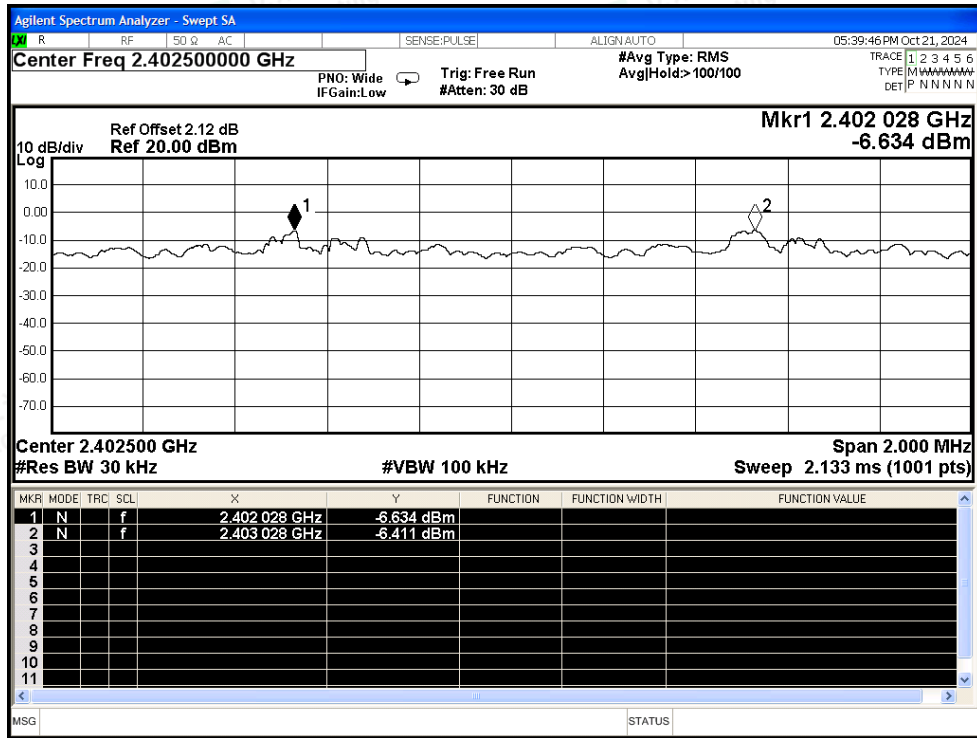


Test Graphs

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	331.74	114	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	333.27	115	31600	400	Pass

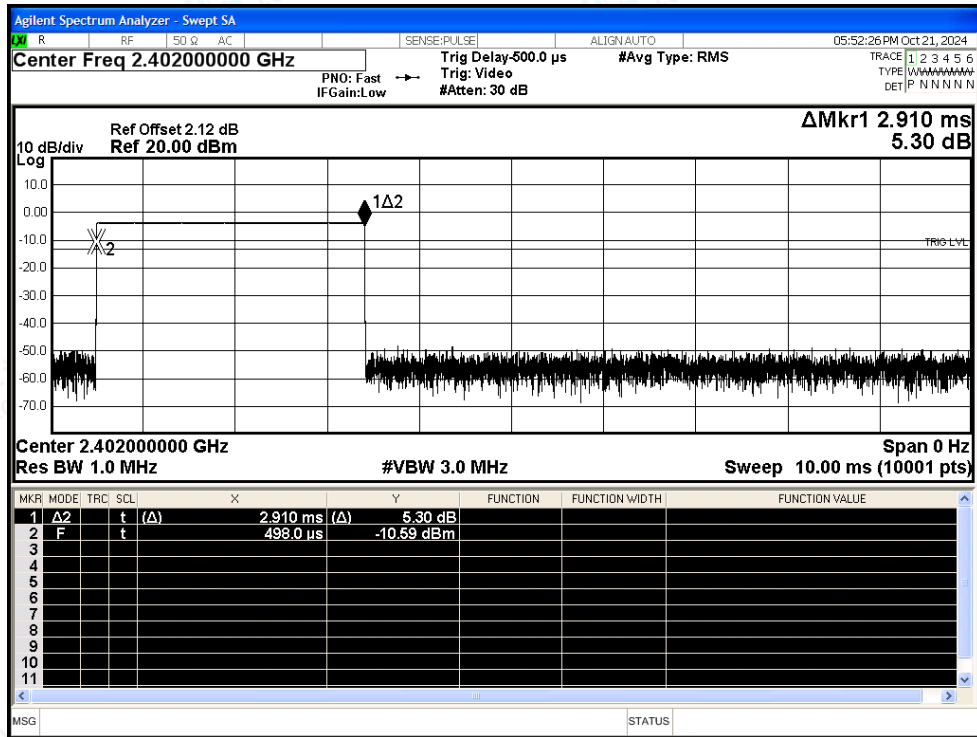


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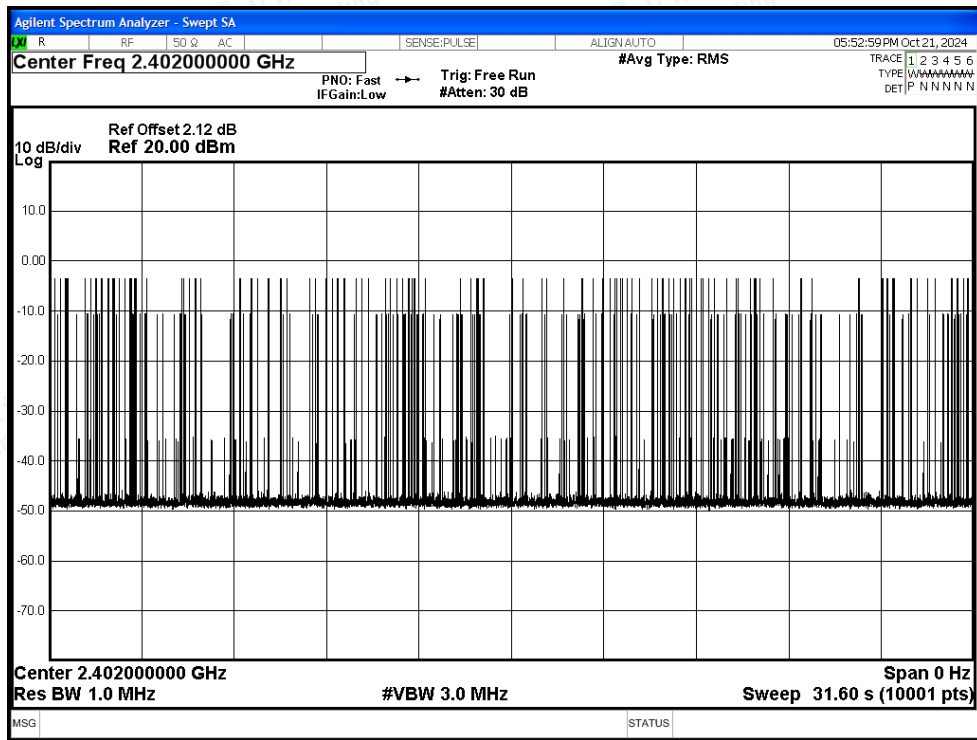


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

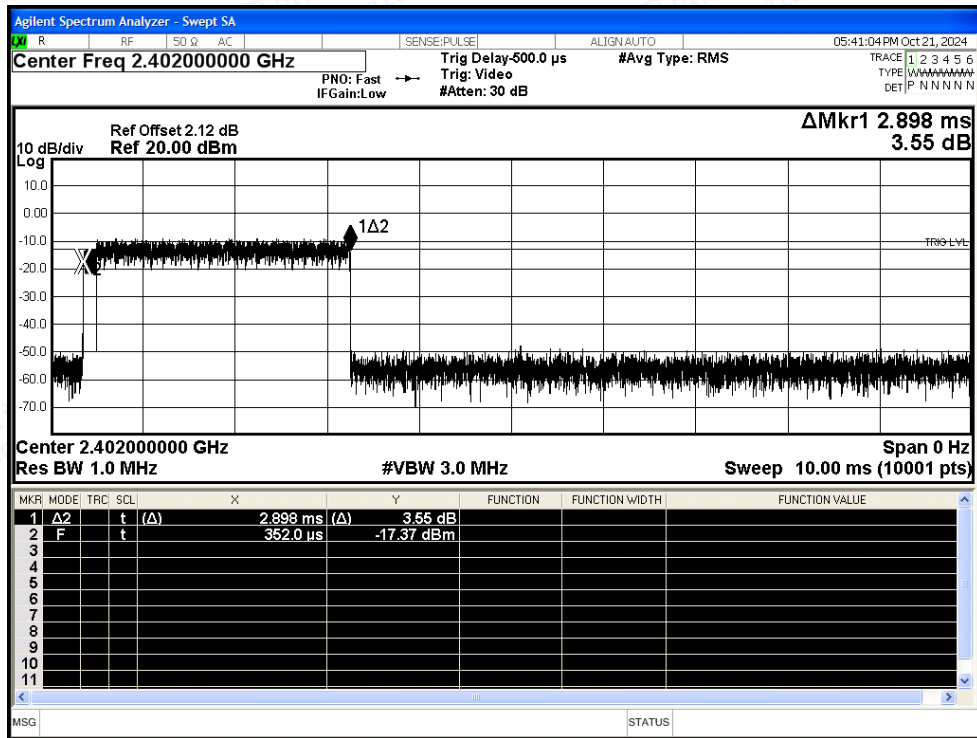


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

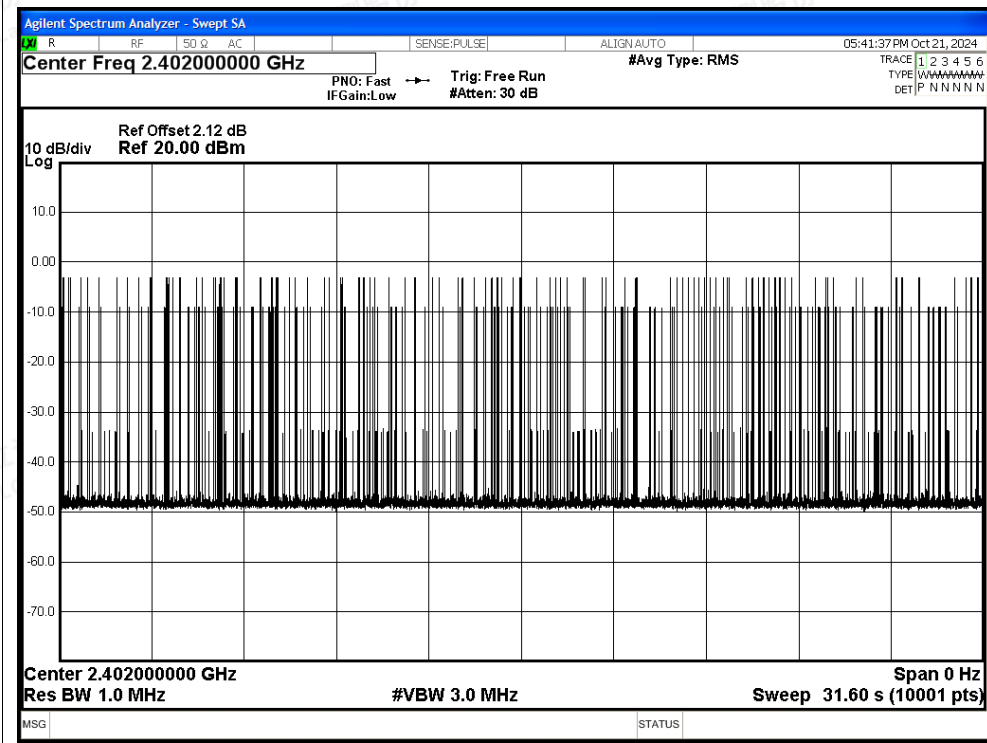




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-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

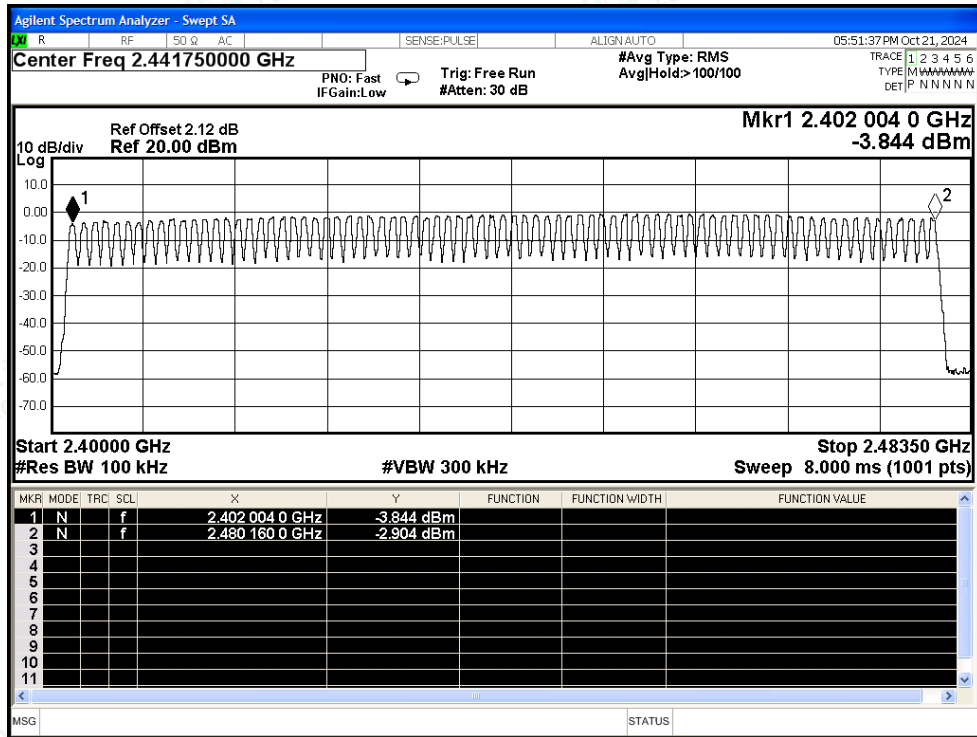


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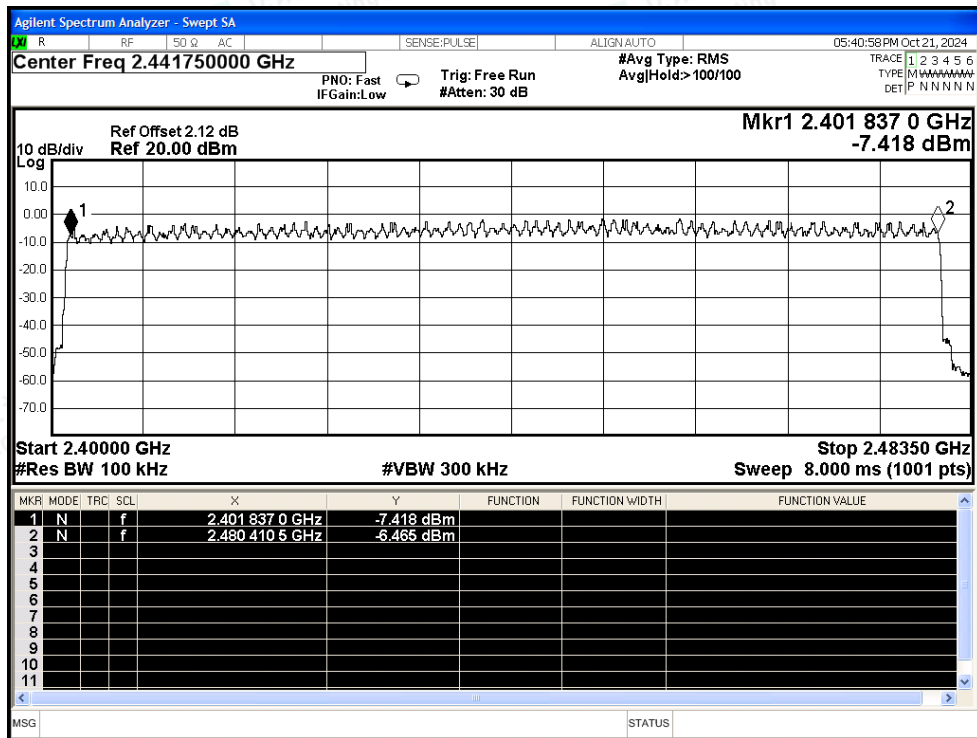


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.02	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.36	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.41	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.28	-20	Pass

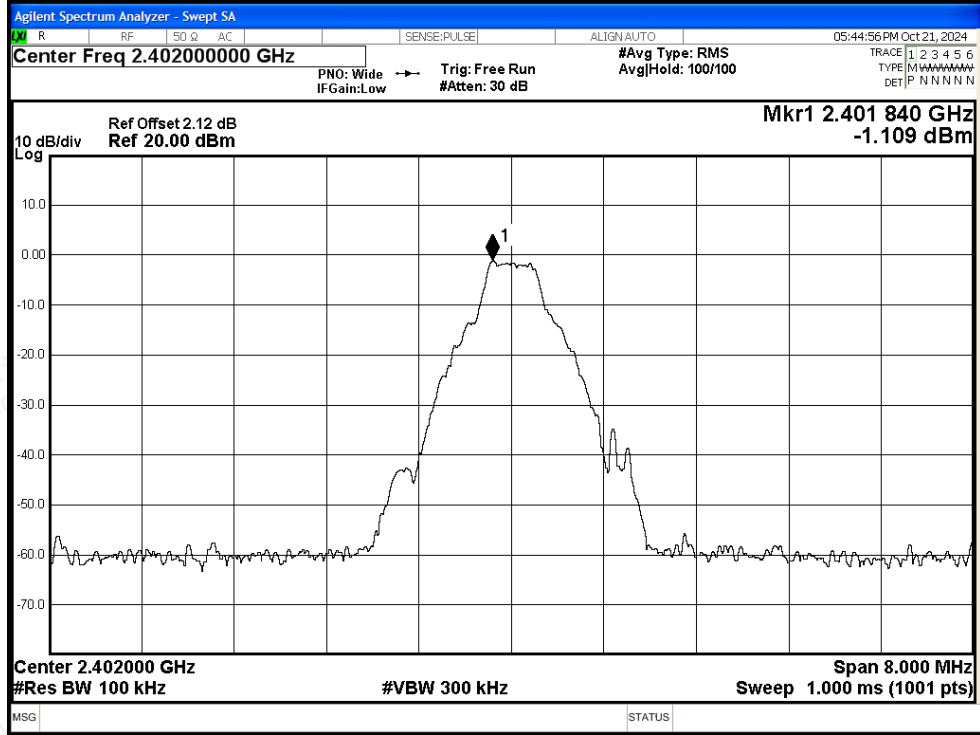


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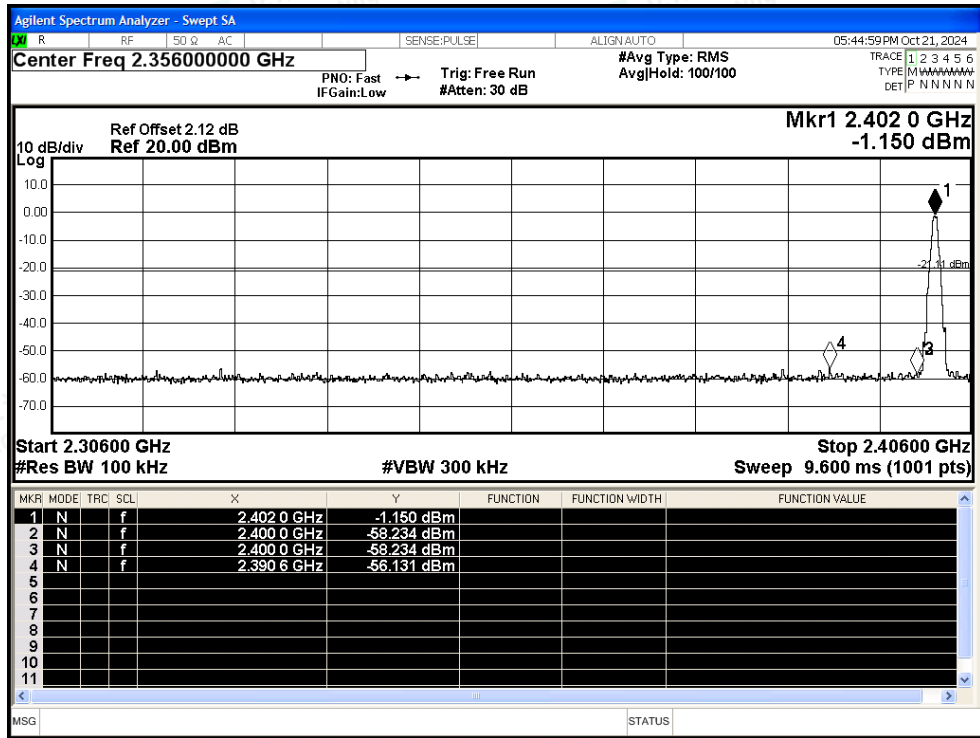


Test Graphs

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

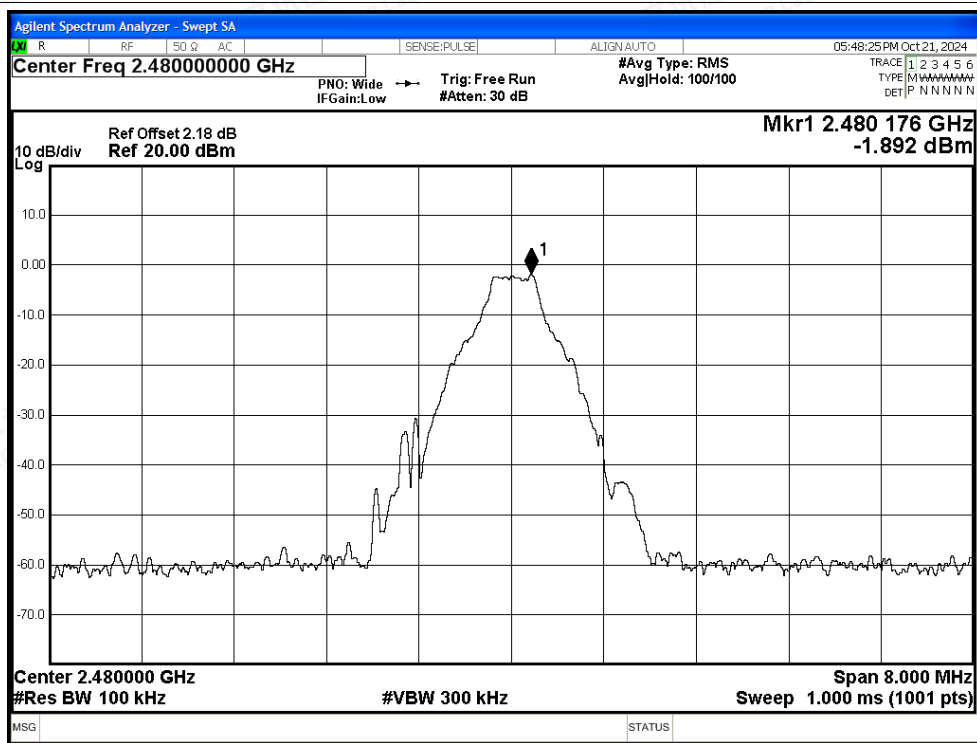


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

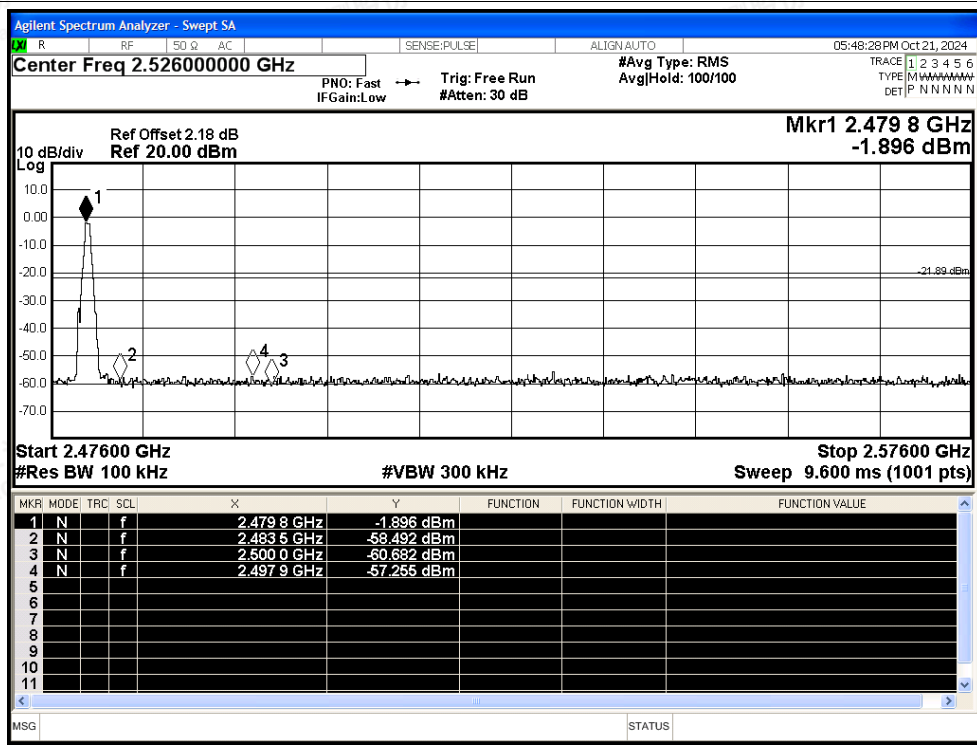




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

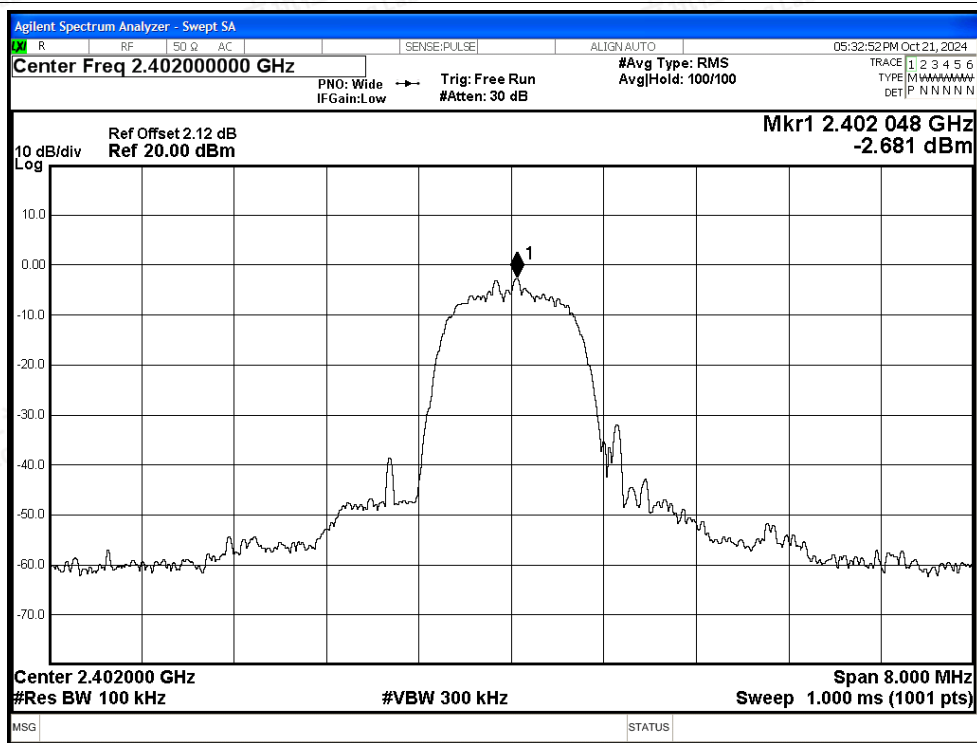


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

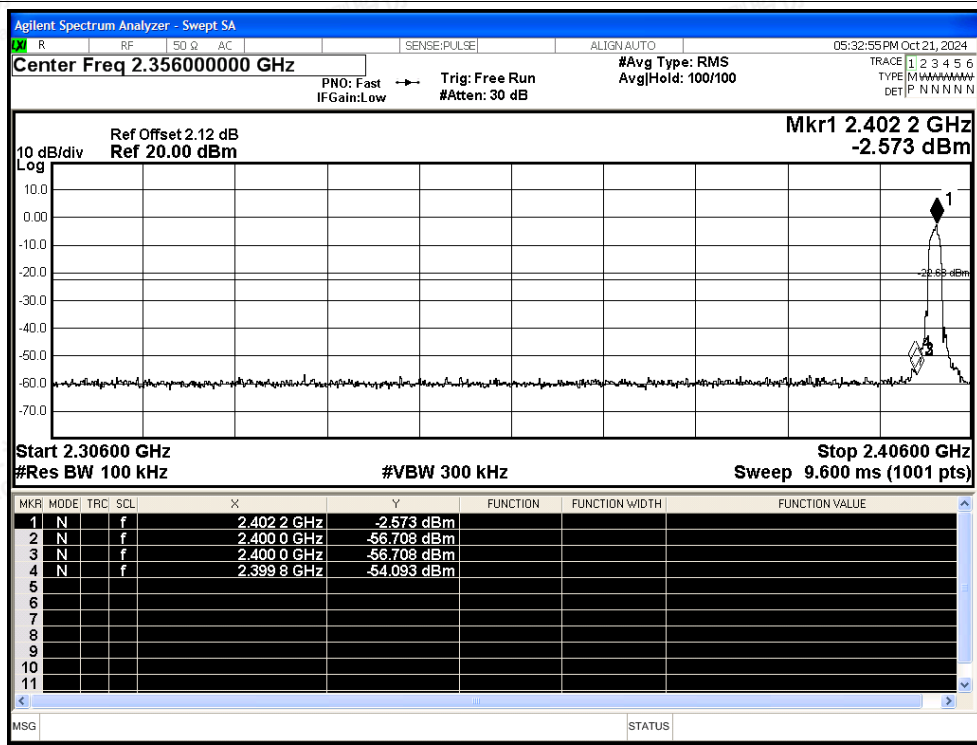




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

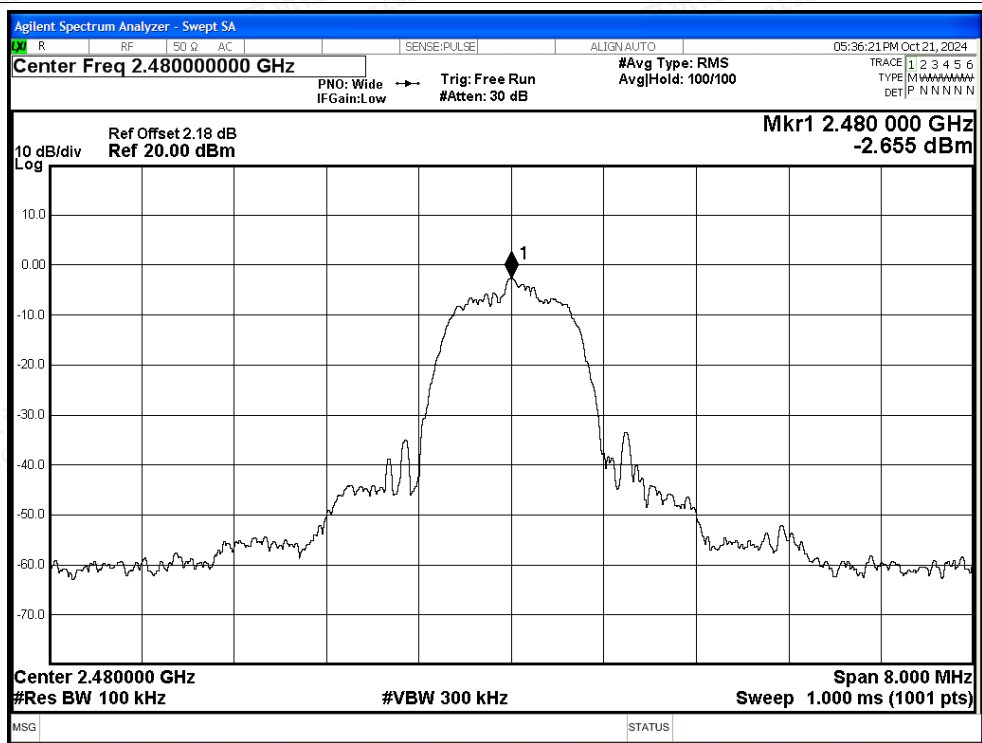


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

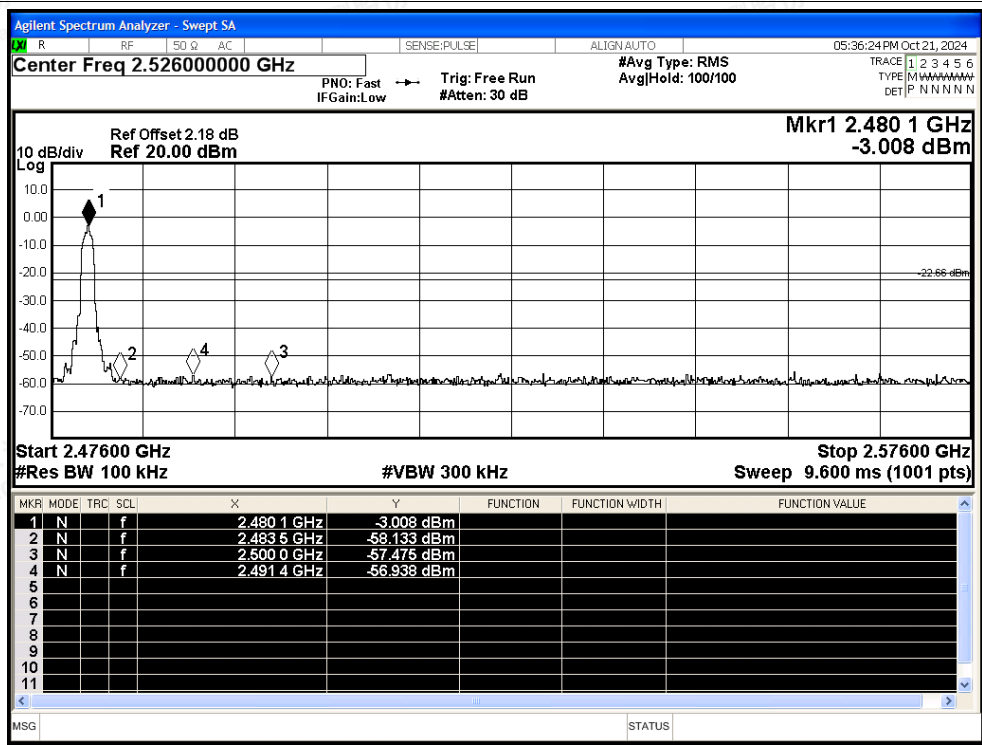




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-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	-52.03	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.76	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-50.91	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-51.69	-20	Pass

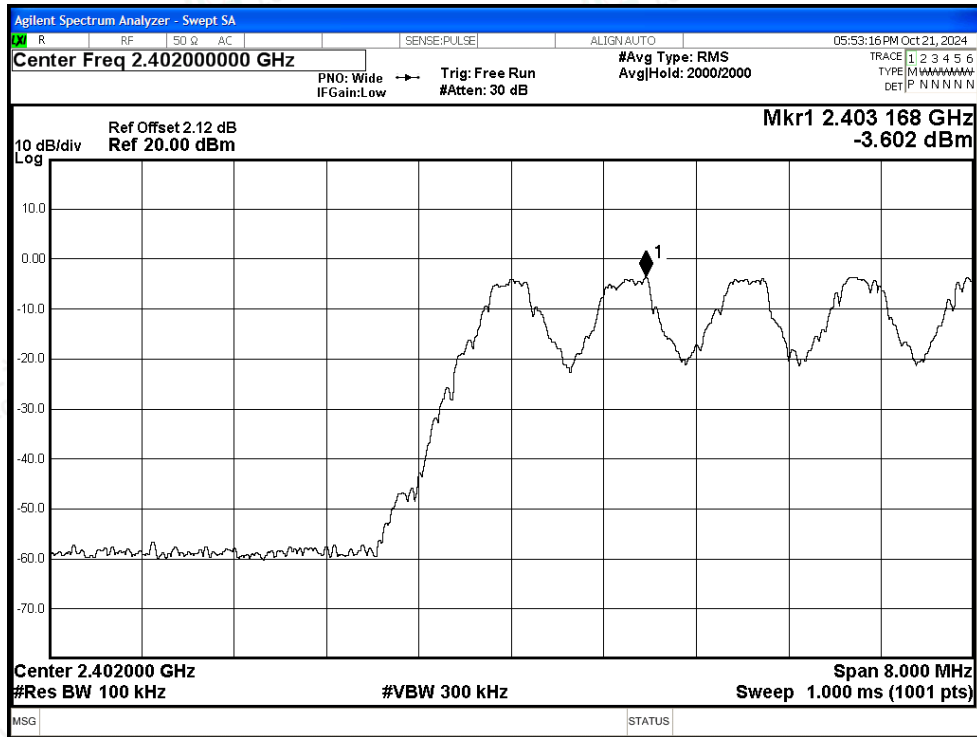


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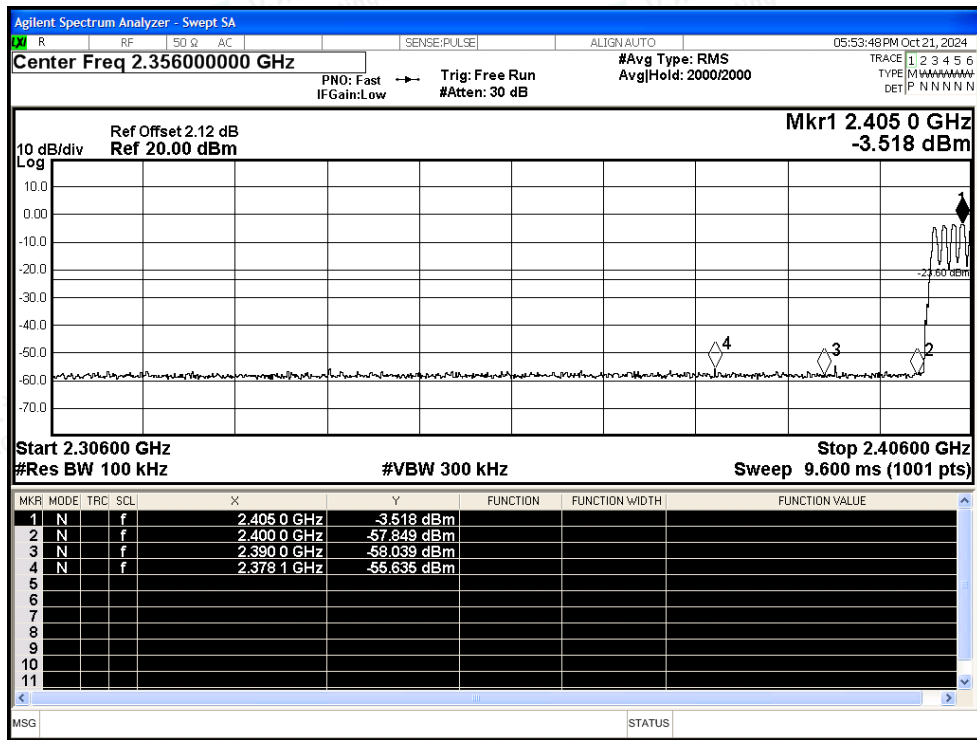


Test Graphs

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

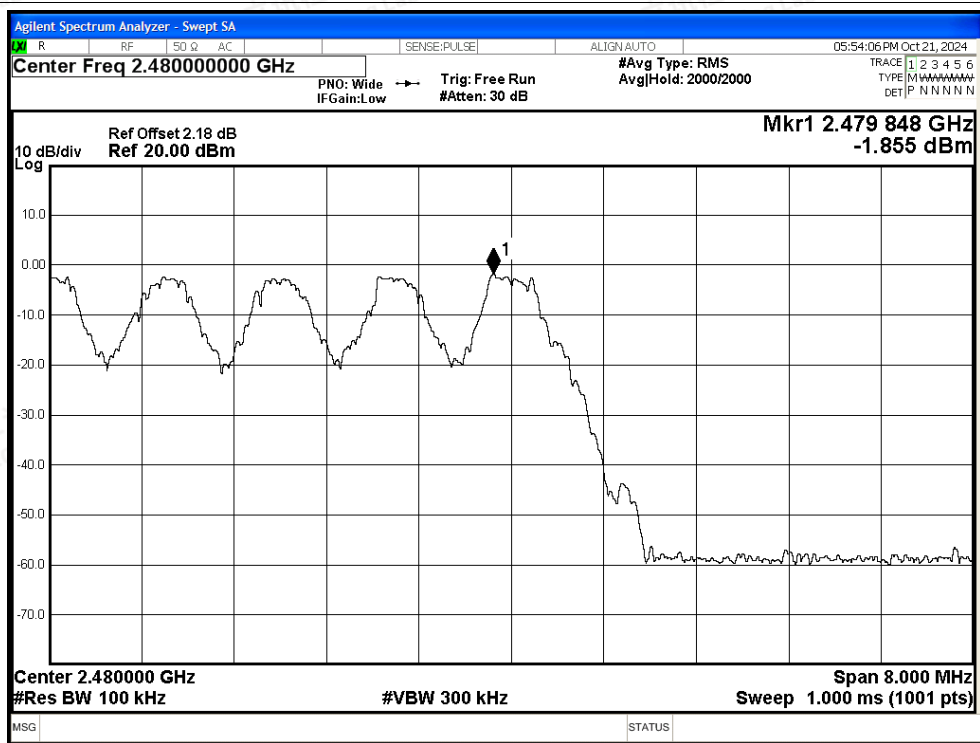


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

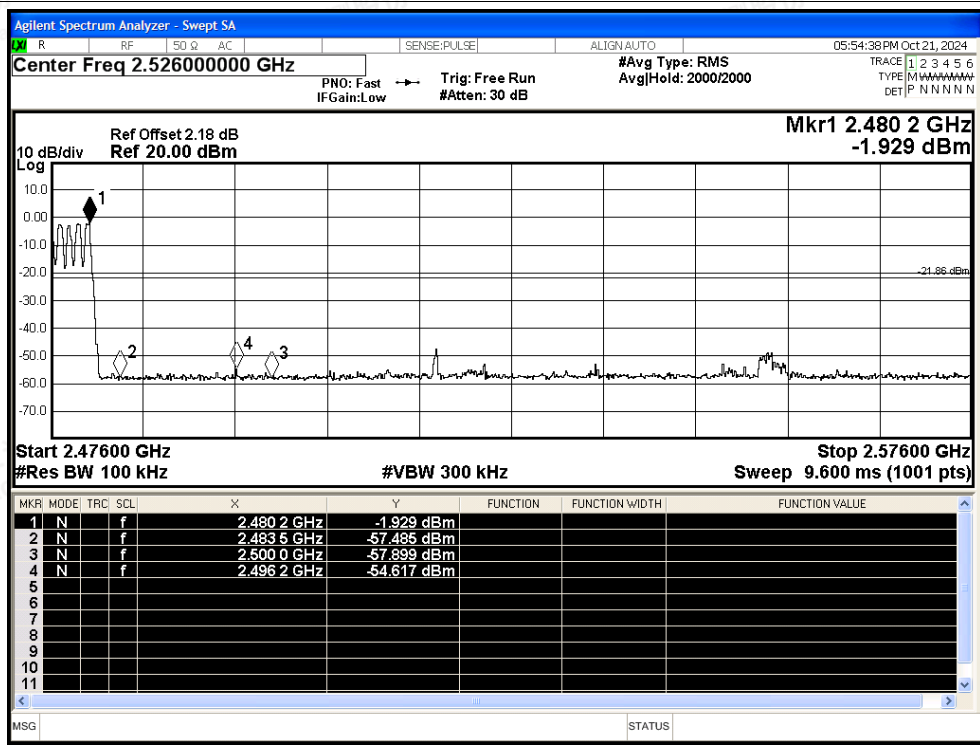




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

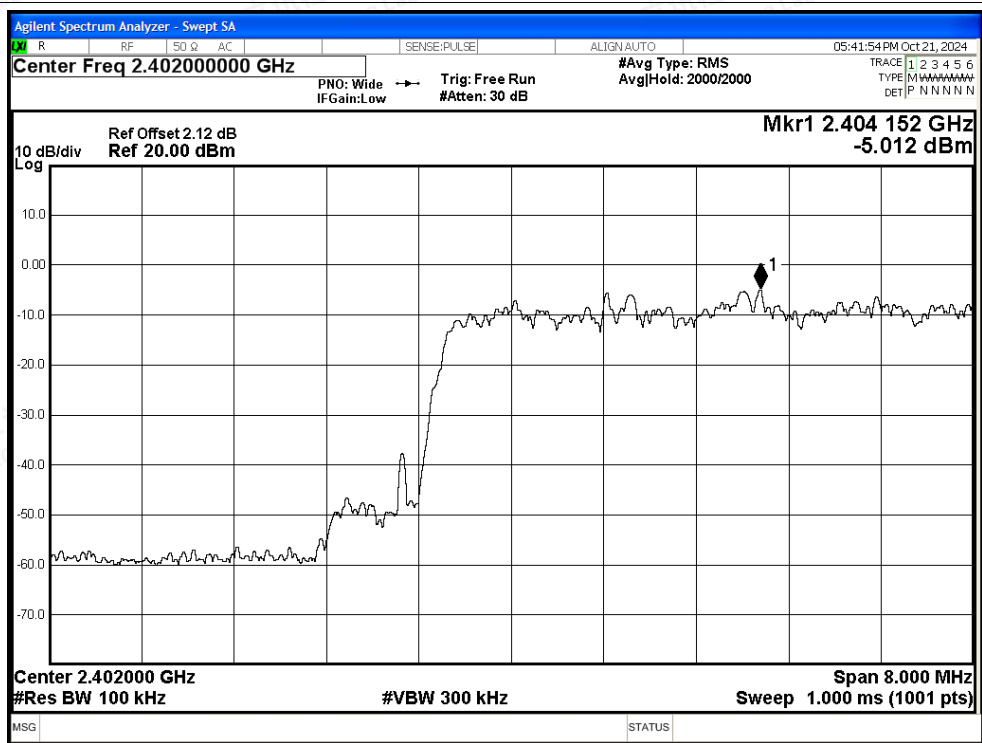


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

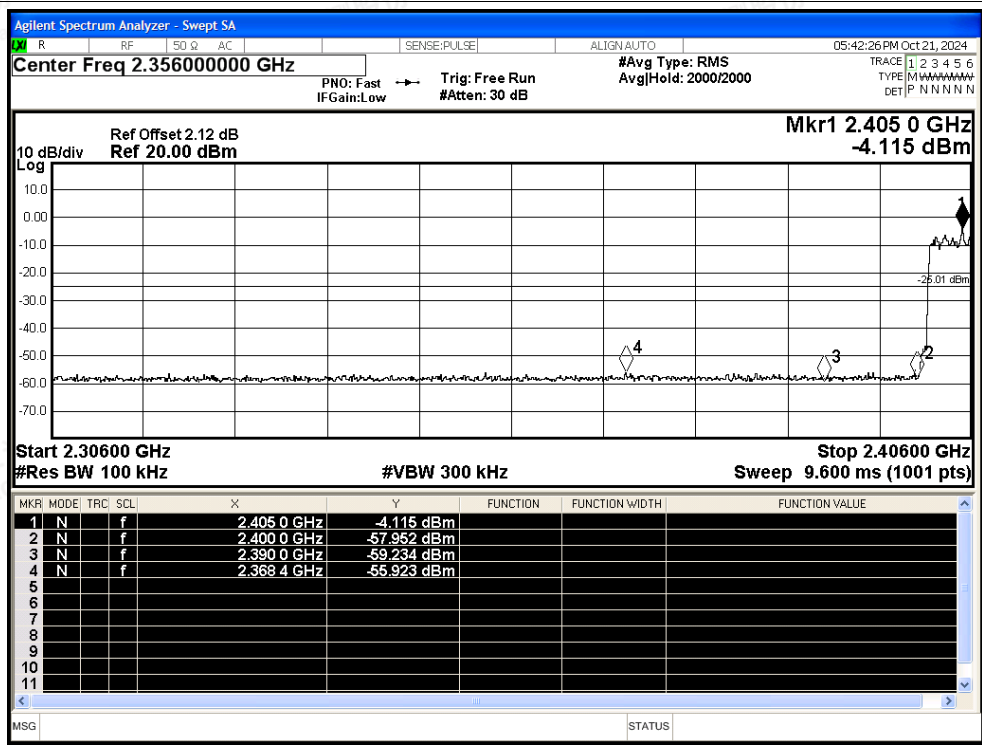




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

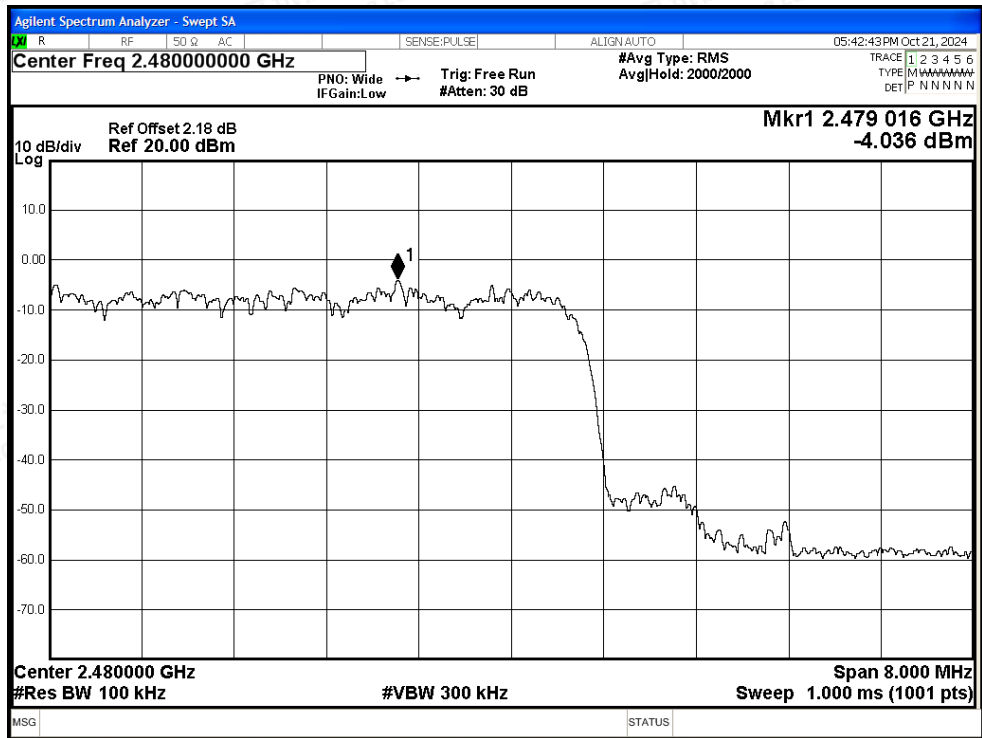


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

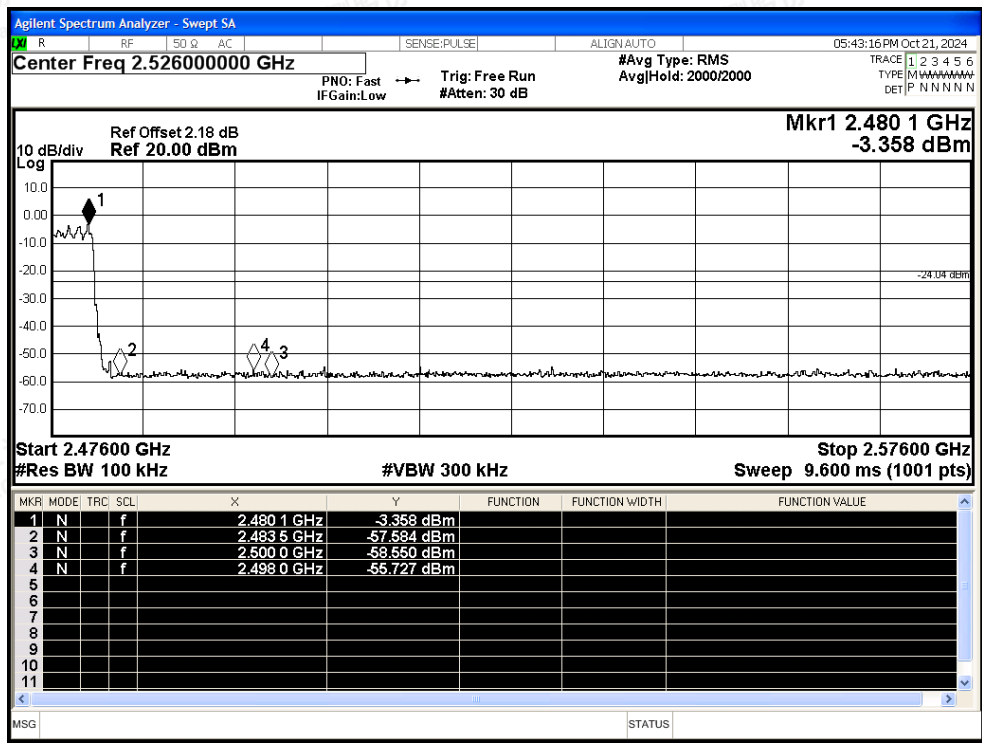




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.63	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.58	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.46	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.52	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.38	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.88	-20	Pass

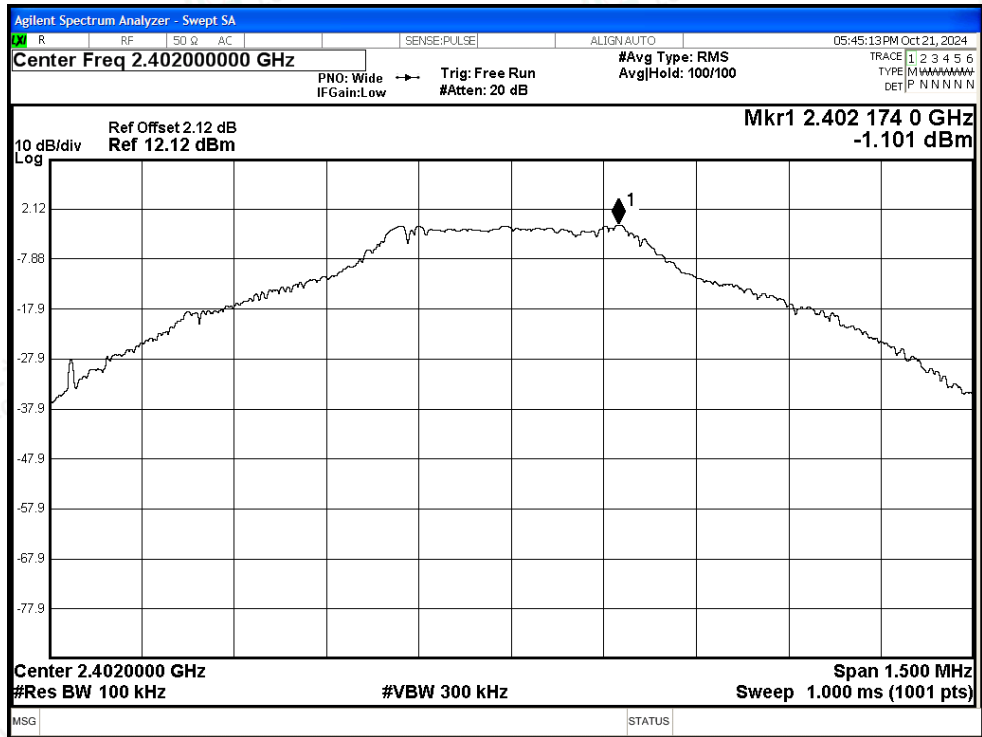


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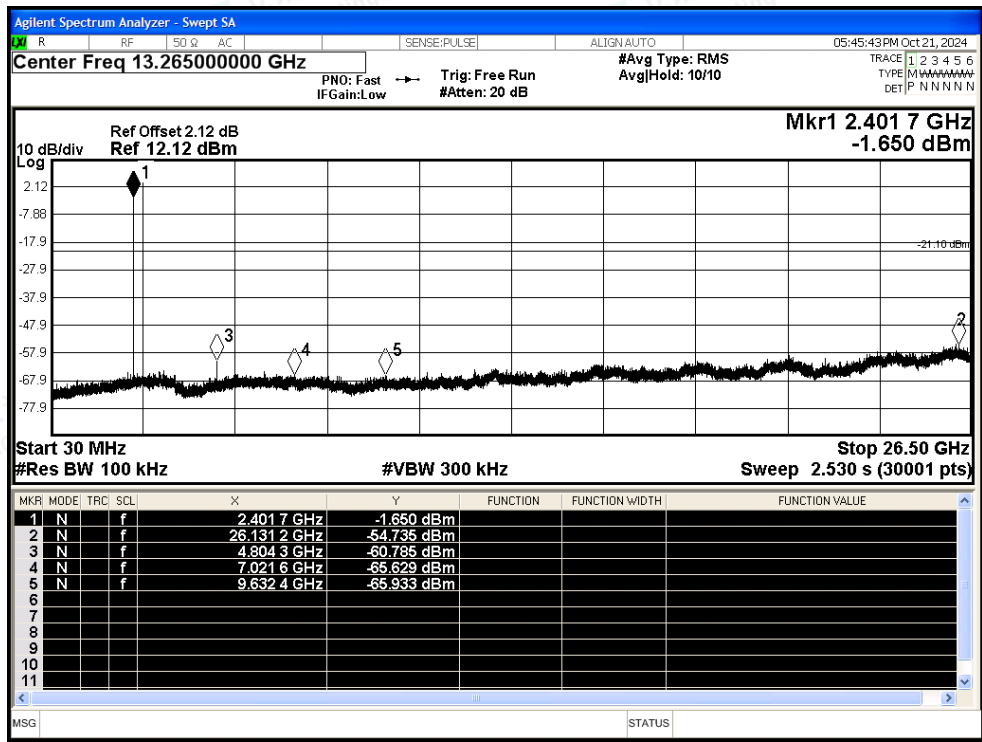


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

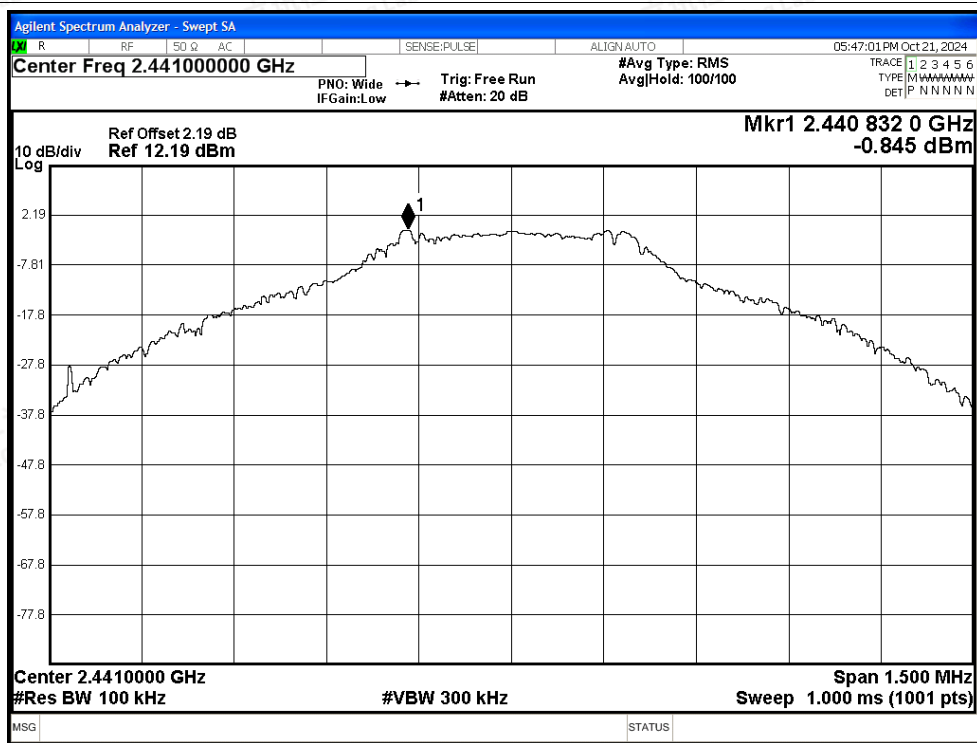


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

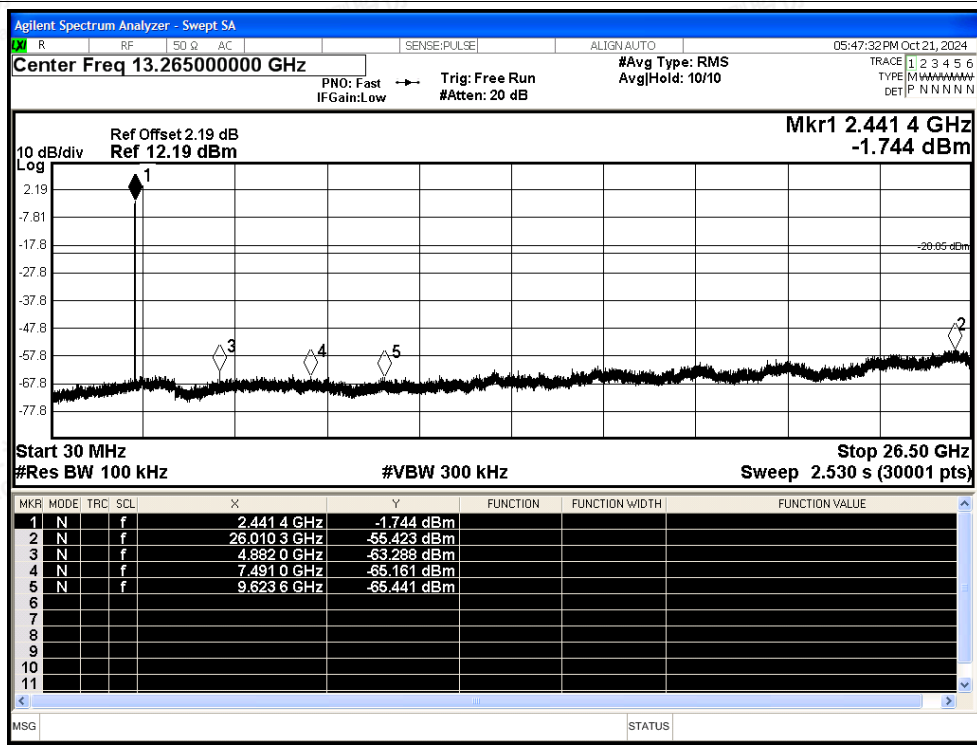




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

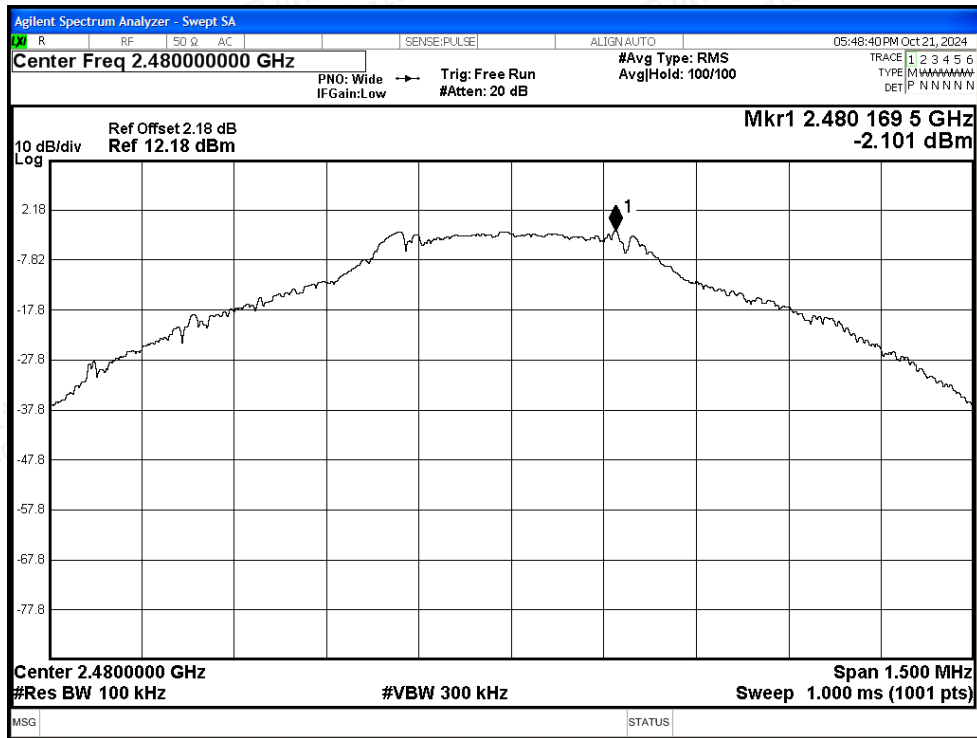


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

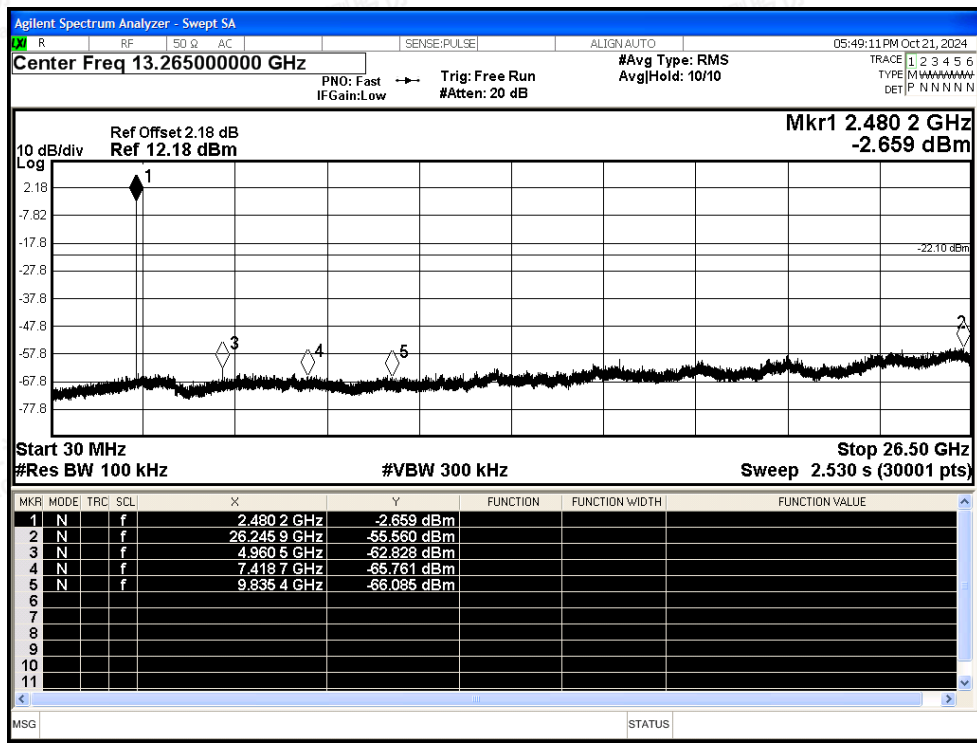




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

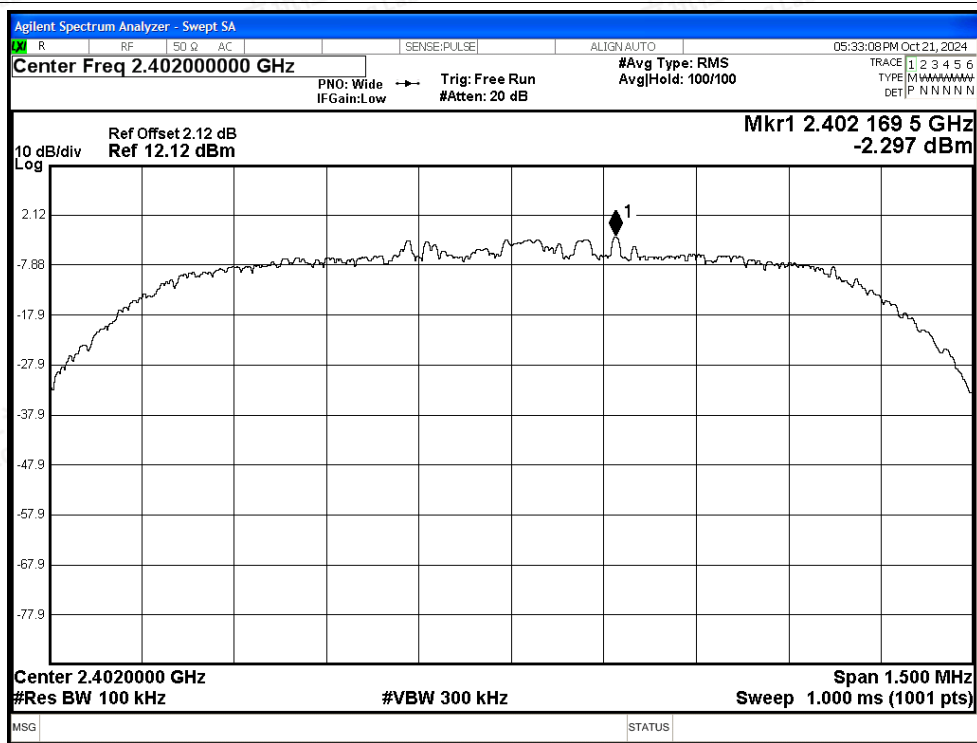


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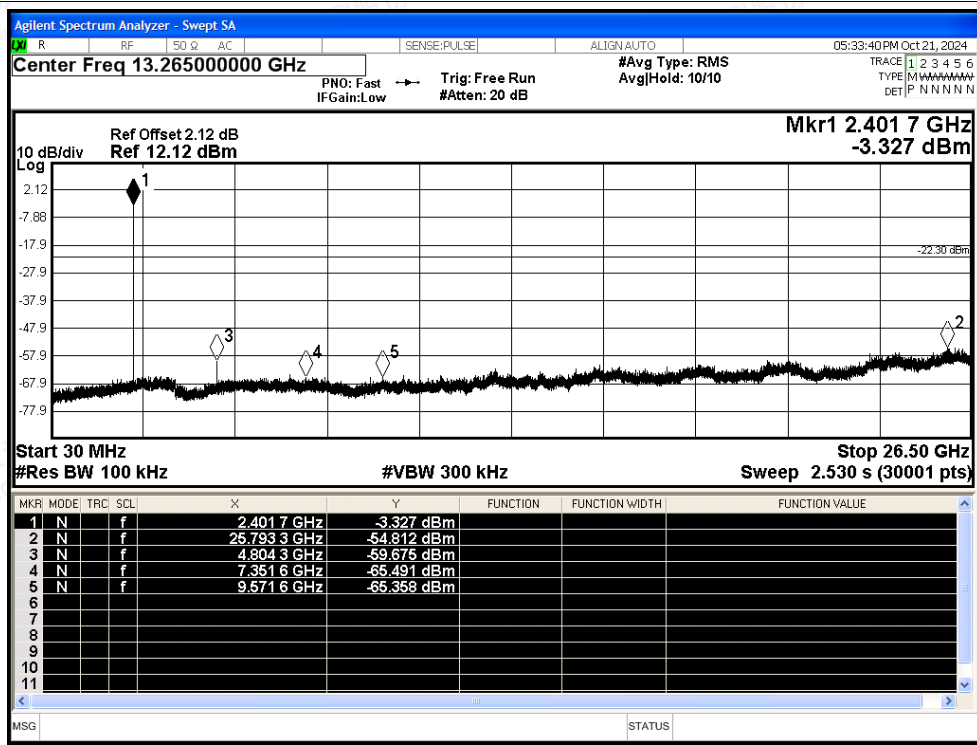




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

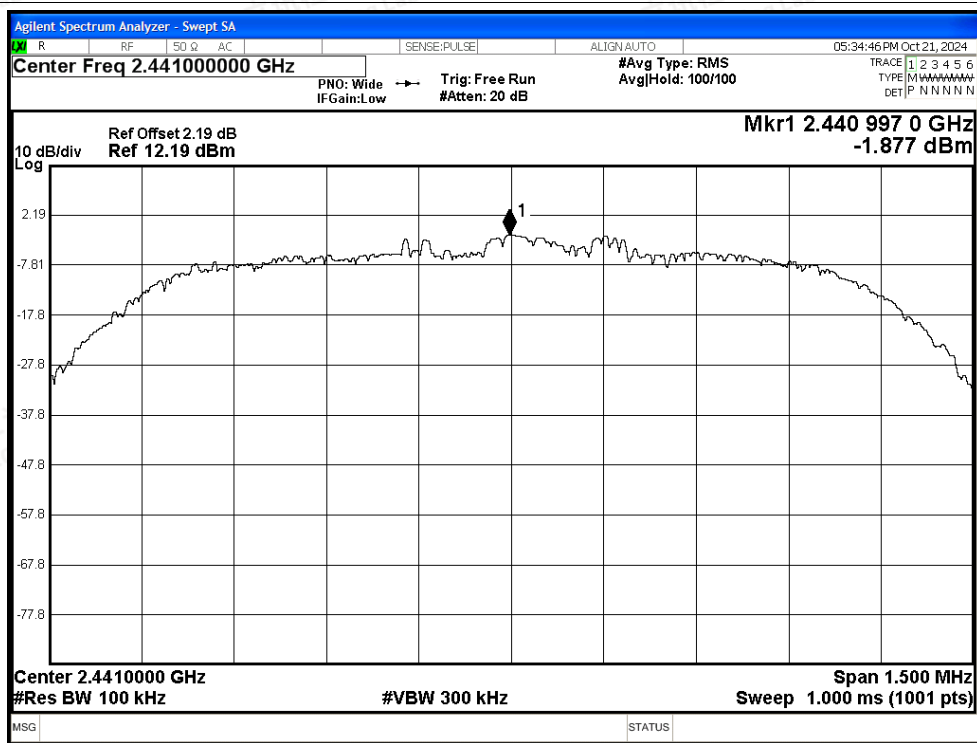


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

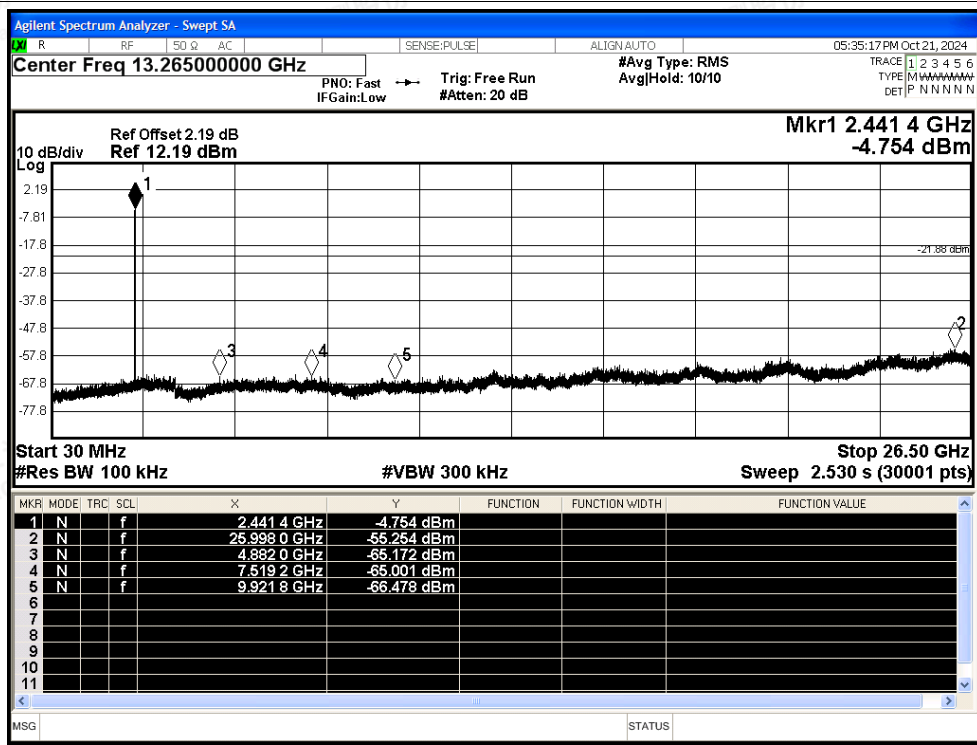




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

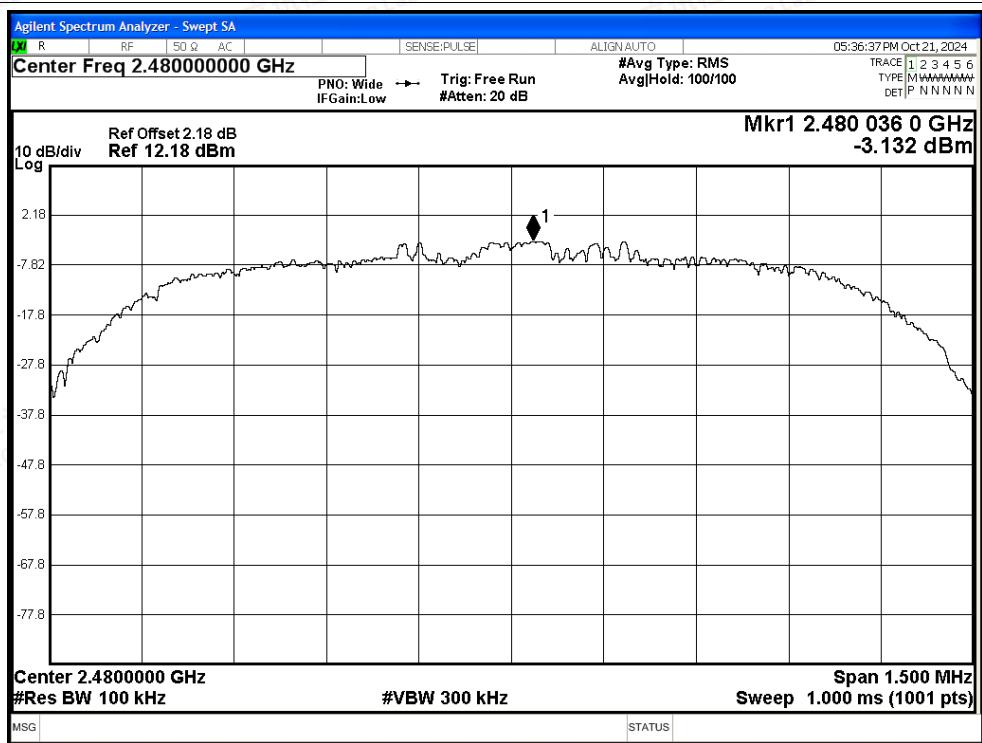


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

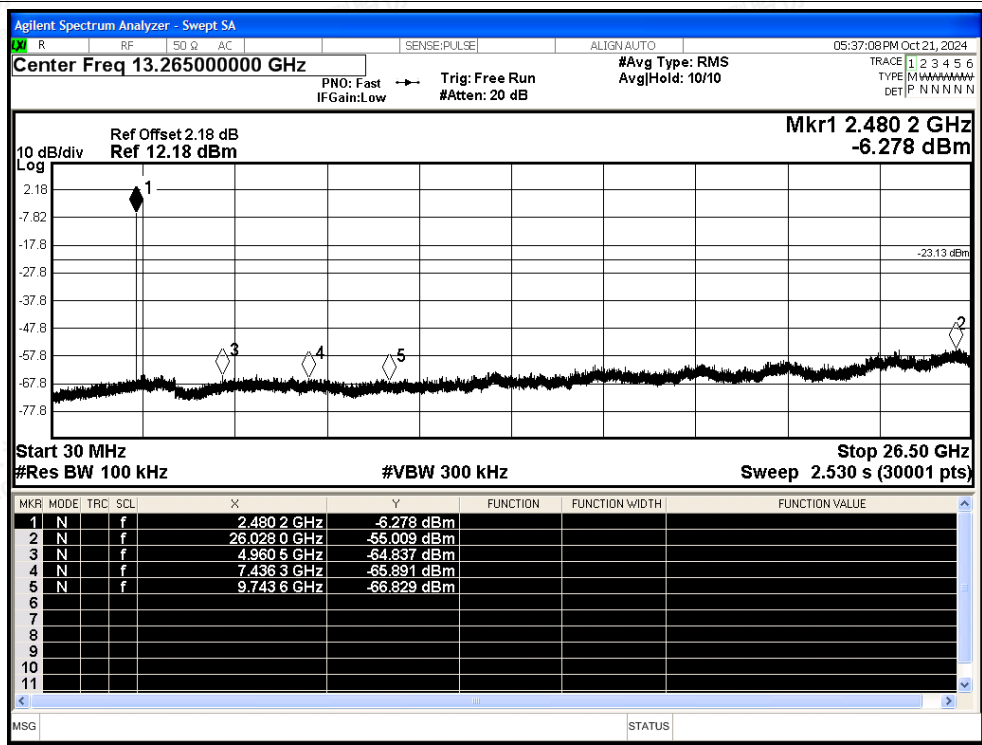




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



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	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35

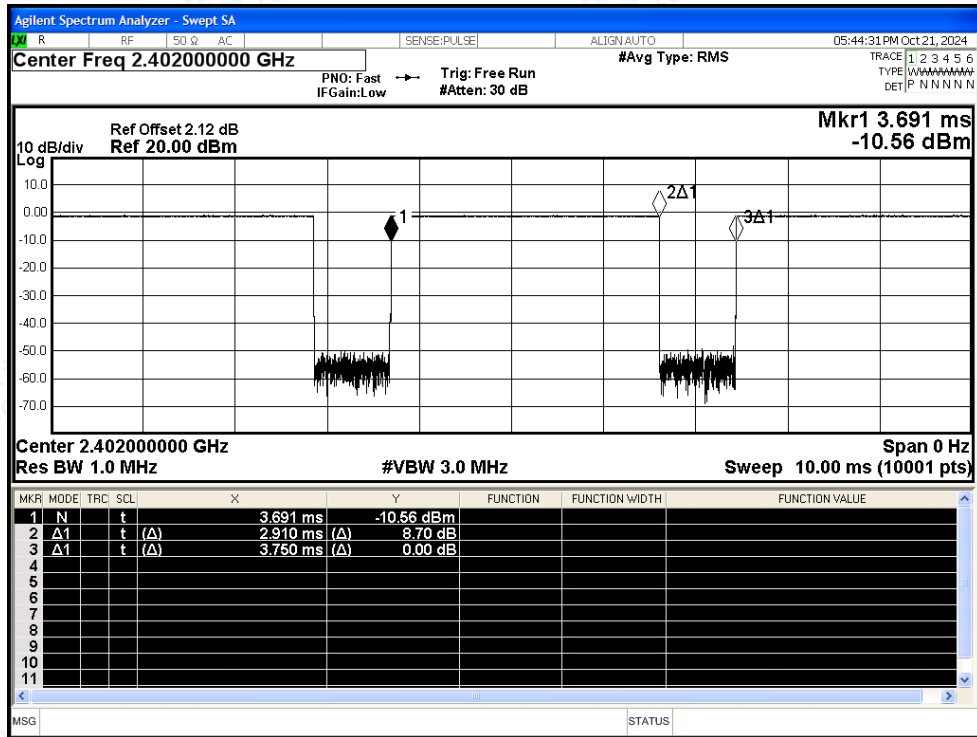


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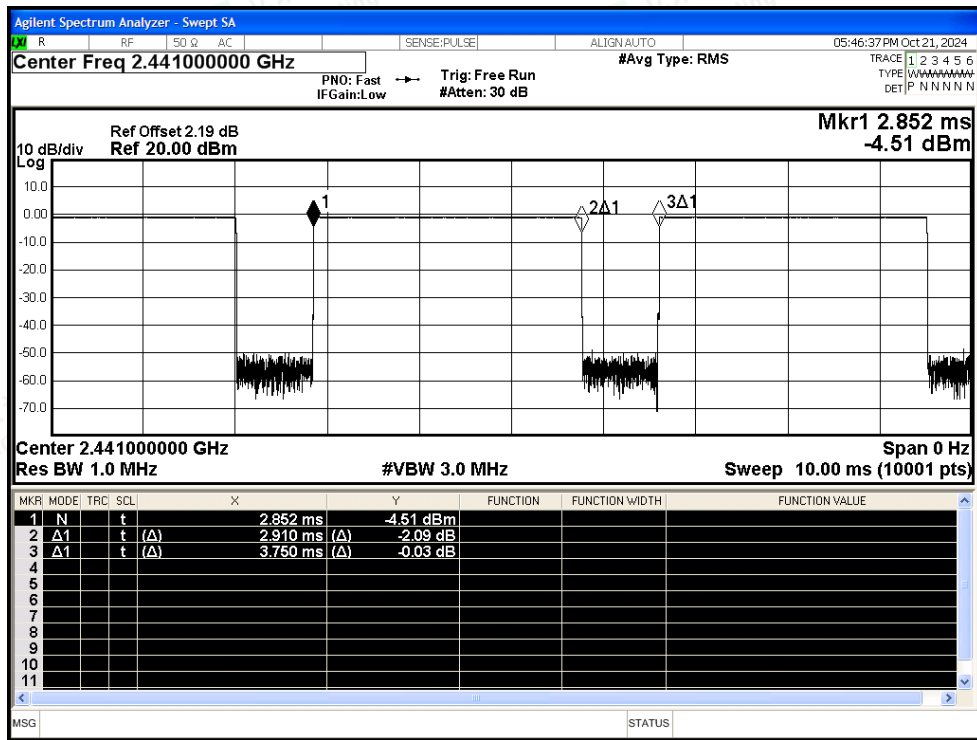


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

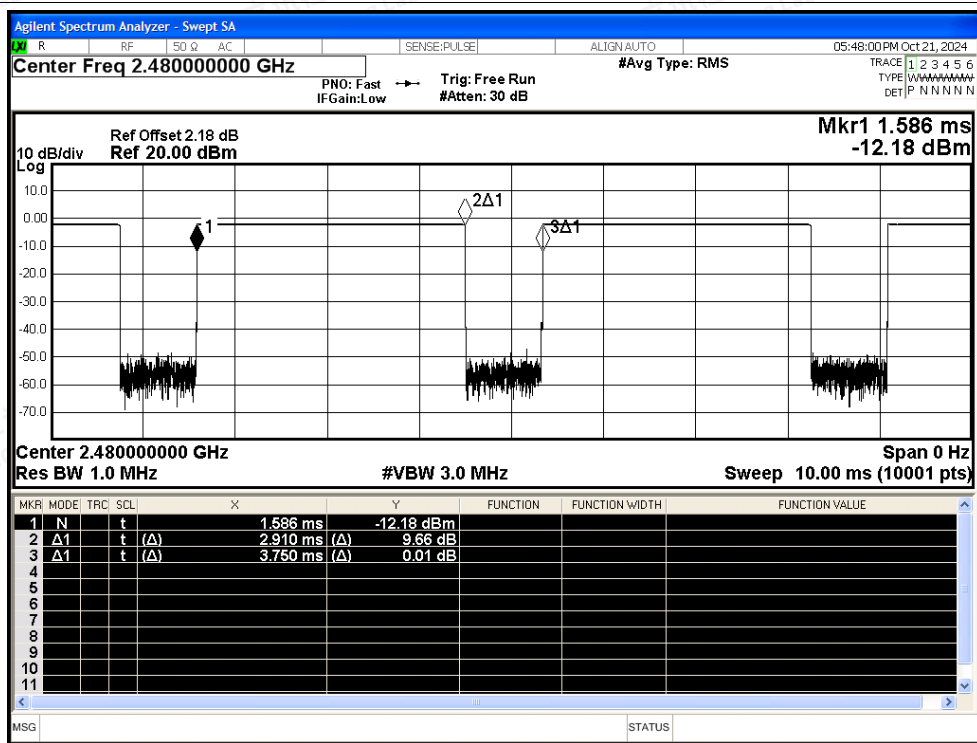


Duty Cycle NVNT 1-DH5 2441MHz Ant1

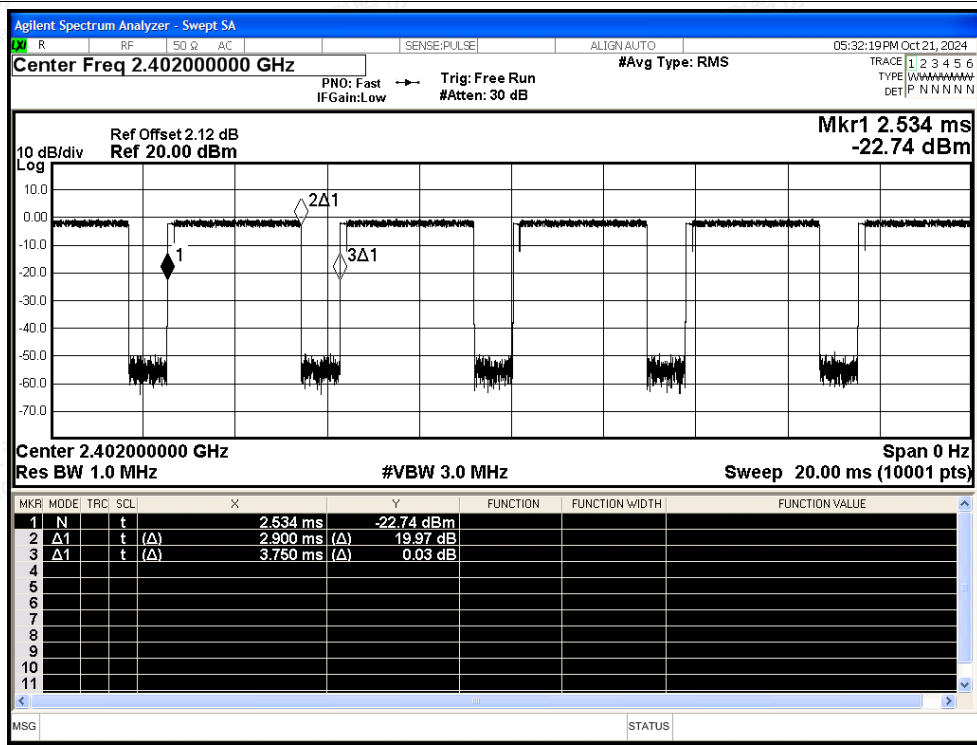




Duty Cycle NVNT 1-DH5 2480MHz Ant1

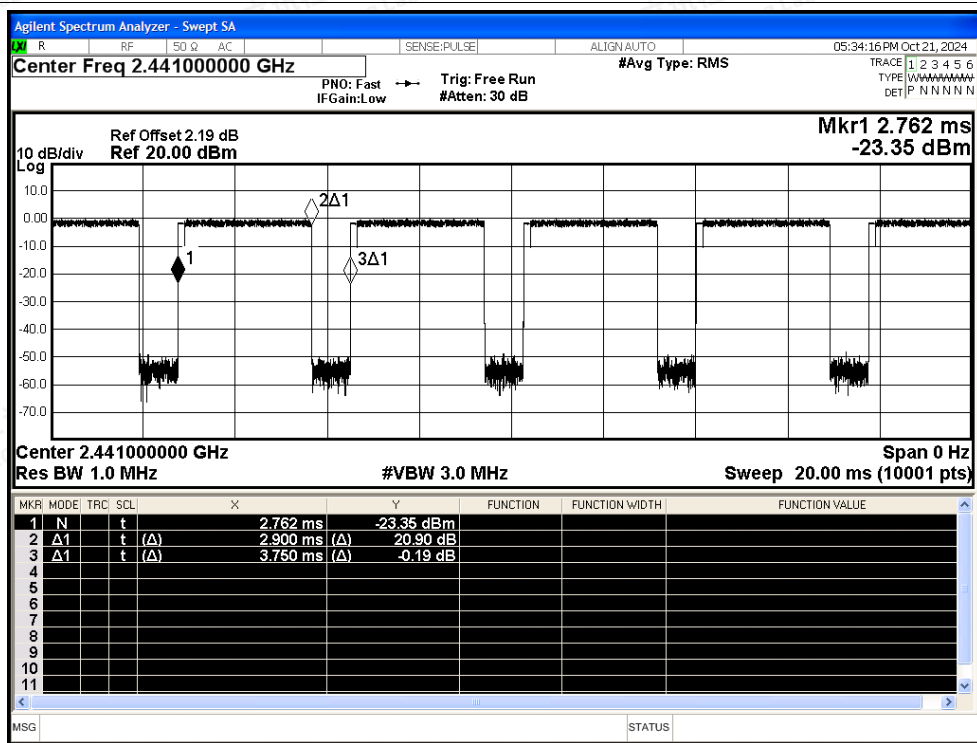


Duty Cycle NVNT 2-DH5 2402MHz Ant1

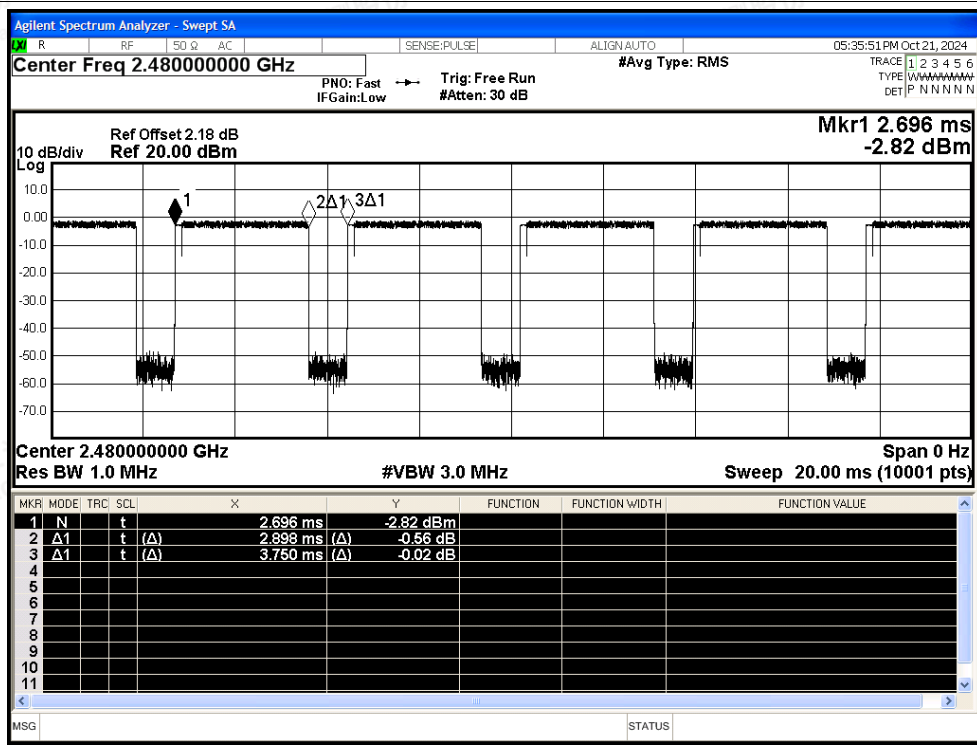




Duty Cycle NVNT 2-DH5 2441MHz Ant1



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	-50.4	2.5	-	47.36	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.08	2.5	1.1	39.78	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2387.664	-47.22	2.5	-	50.54	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2338.704	-57.62	2.5	1.1	41.24	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.18	2.5	-	46.58	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.41	2.5	1.1	40.45	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.67	2.5	-	48.09	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.6	2.5	1.1	41.26	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.992	-46.24	2.5	-	51.52	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2498.128	-57.06	2.5	1.1	41.80	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.6	2.5	-	47.16	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.3	2.5	1.1	41.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.97	2.5	-	45.79	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.61	2.5	1.12	40.27	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2365.392	-47.34	2.5	-	50.42	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.28	-57.57	2.5	1.12	41.31	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.29	2.5	-	47.47	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.83	2.5	1.12	40.05	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.13	2.5	-	48.63	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.77	2.5	1.12	41.11	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.776	-46.52	2.5	-	51.24	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.24	-57.05	2.5	1.12	41.83	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.25	2.5	-	47.51	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.11	2.5	1.12	40.77	Average	54	Pass

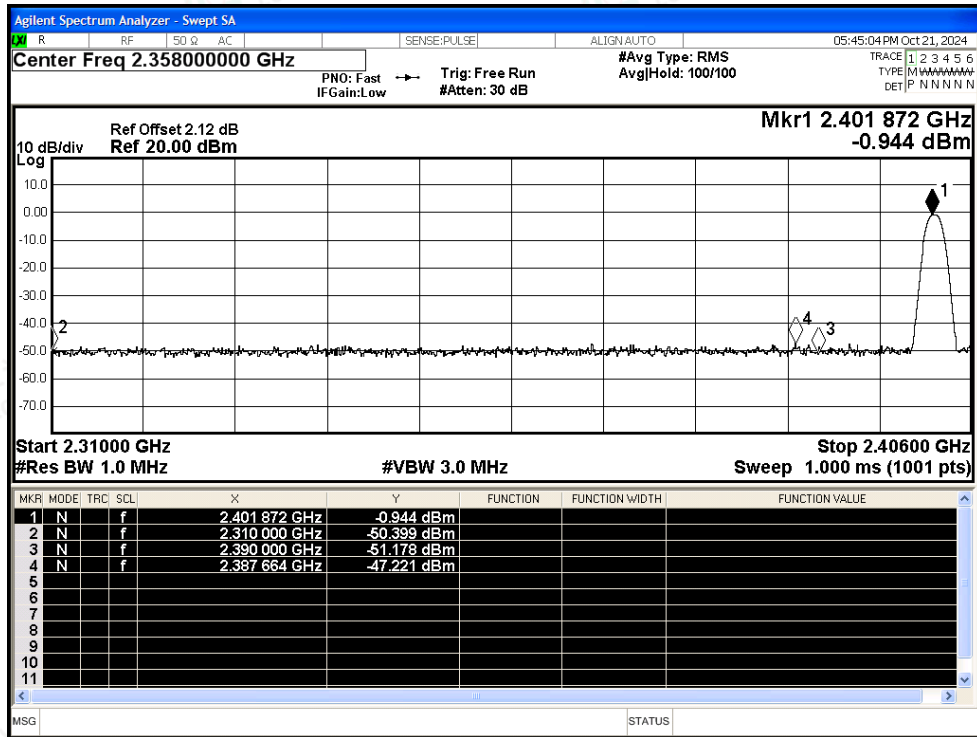


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 Scan code to check authenticity

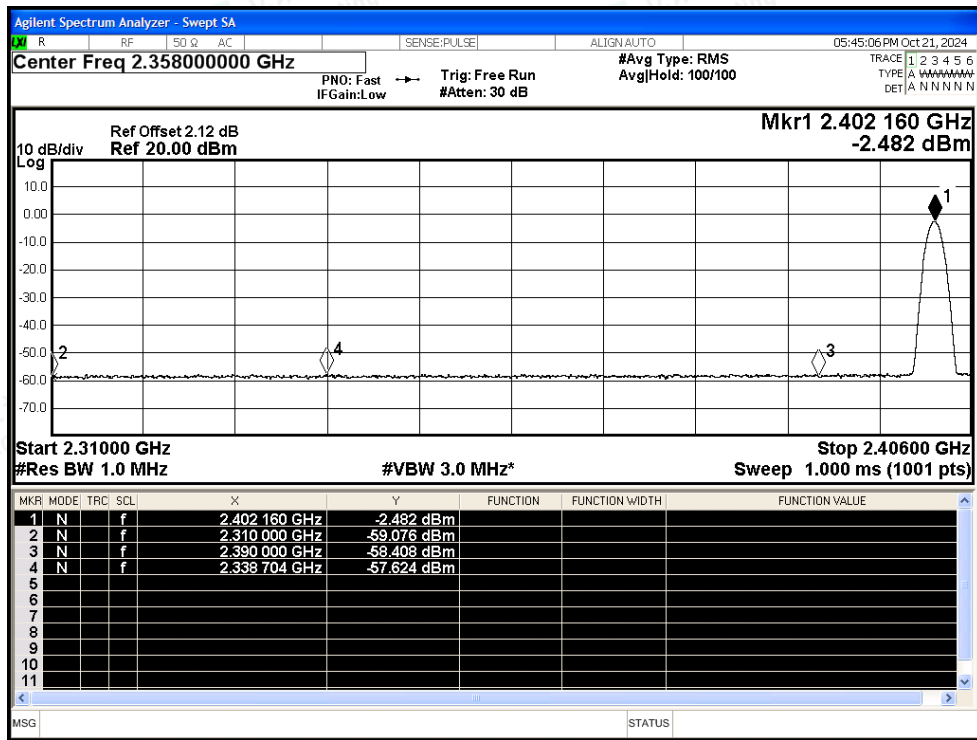


Test Graphs

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

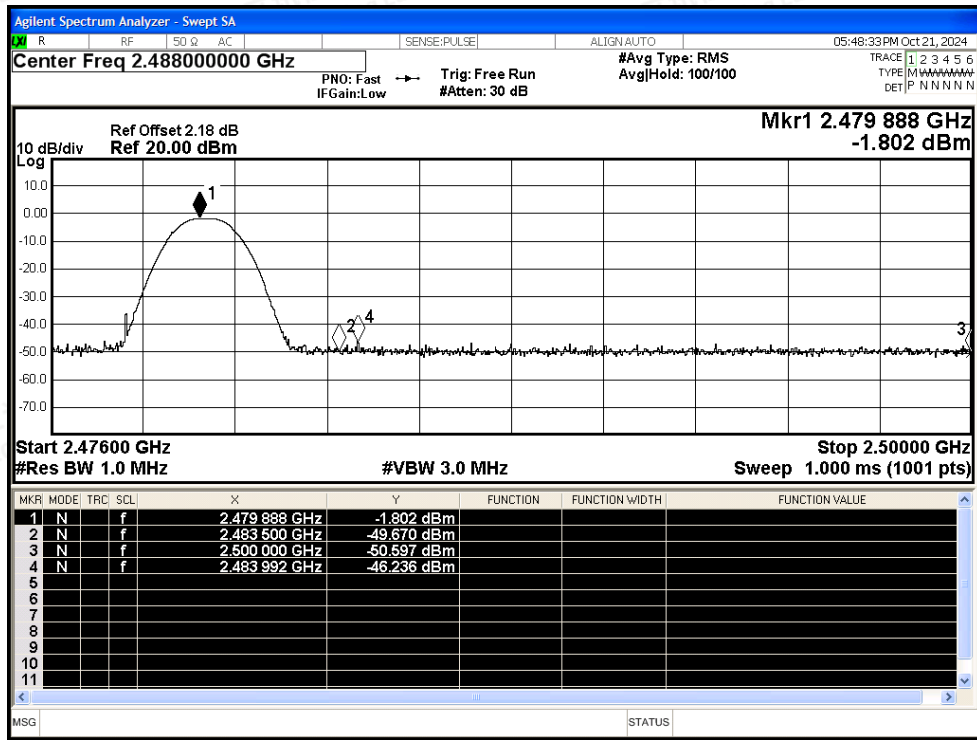


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

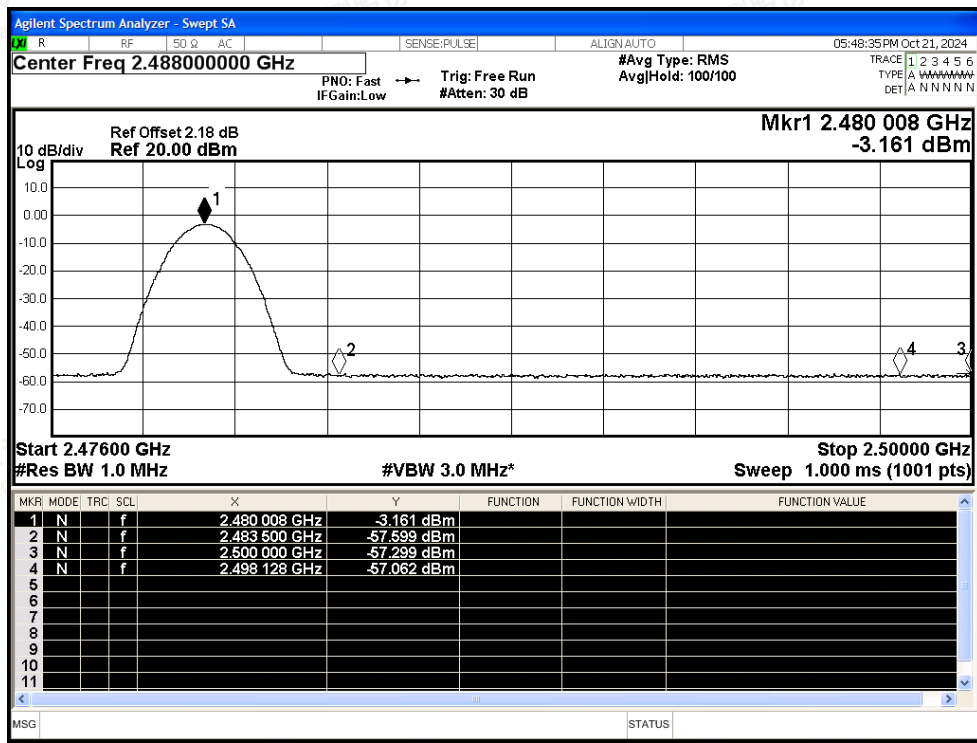




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

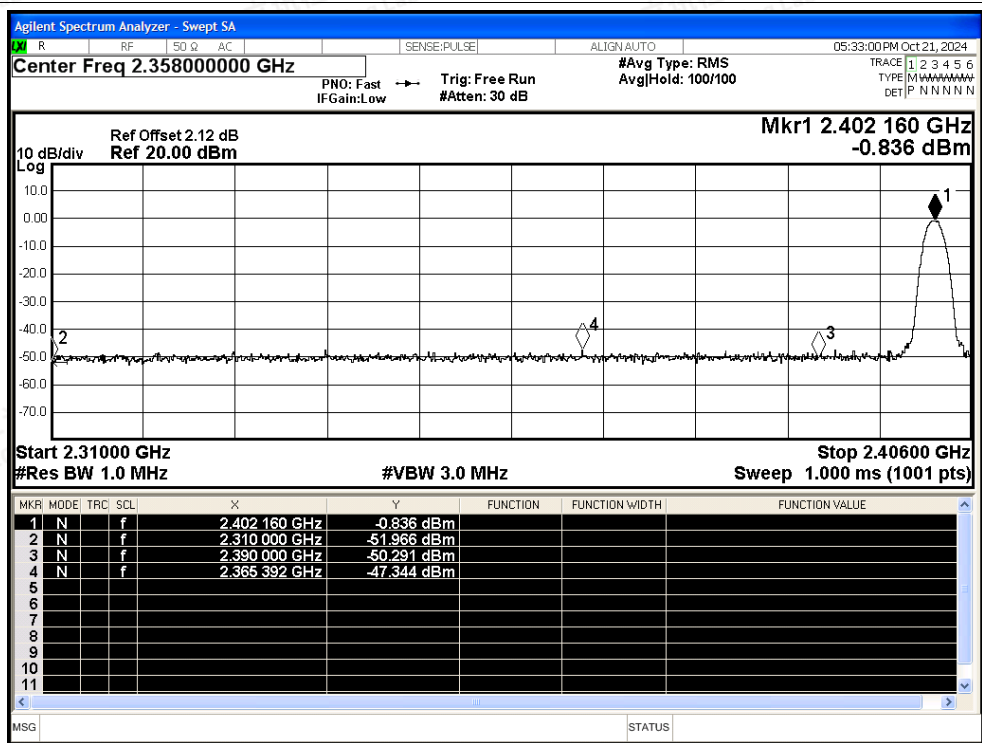


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

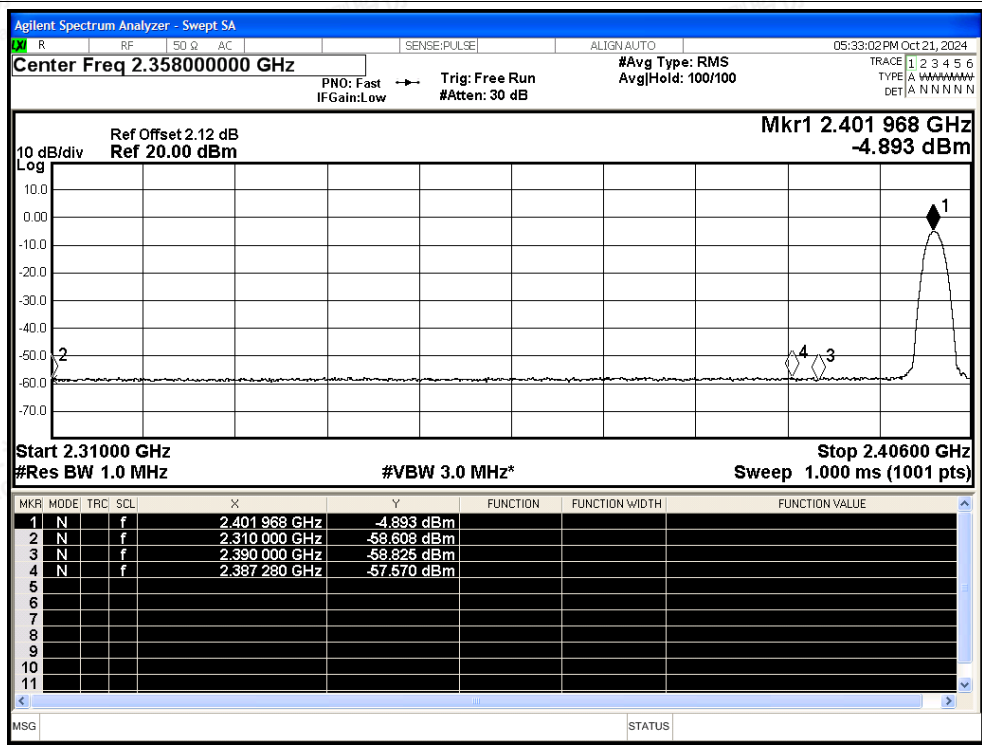




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

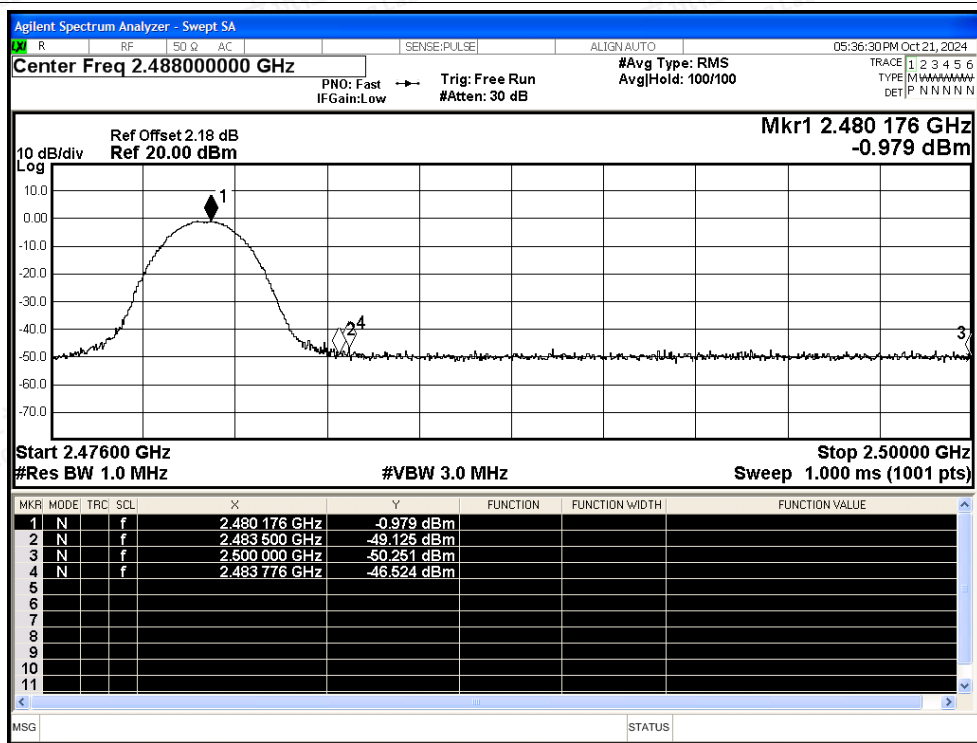


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

