



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless earphone

Test Model: BHD-TW7

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

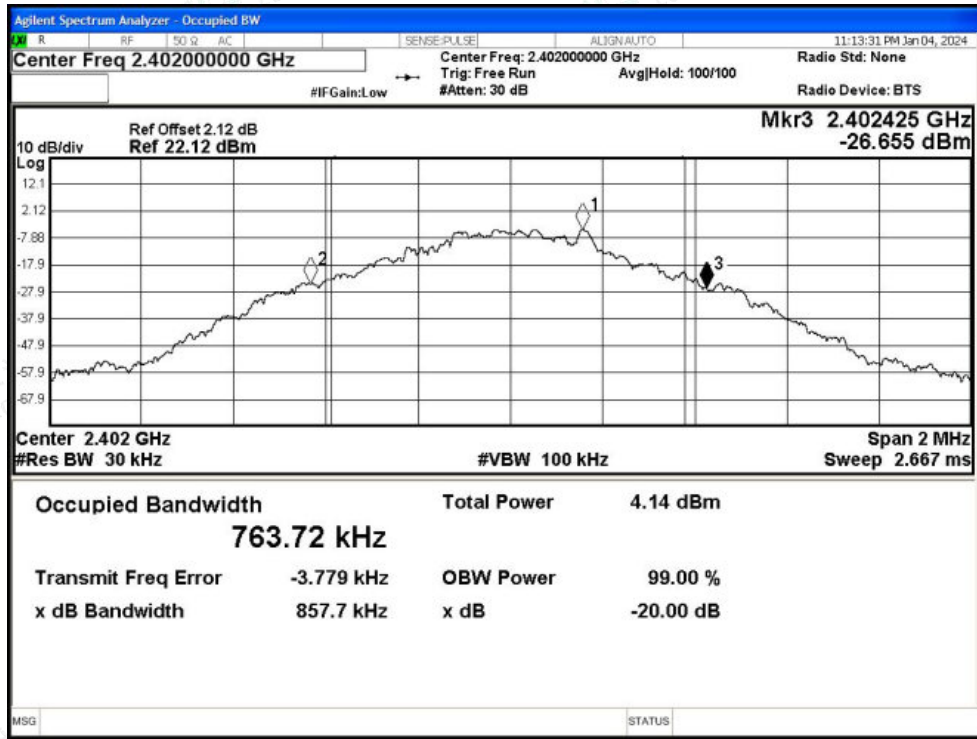
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.858	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.837	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.845	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.266	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.269	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.264	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

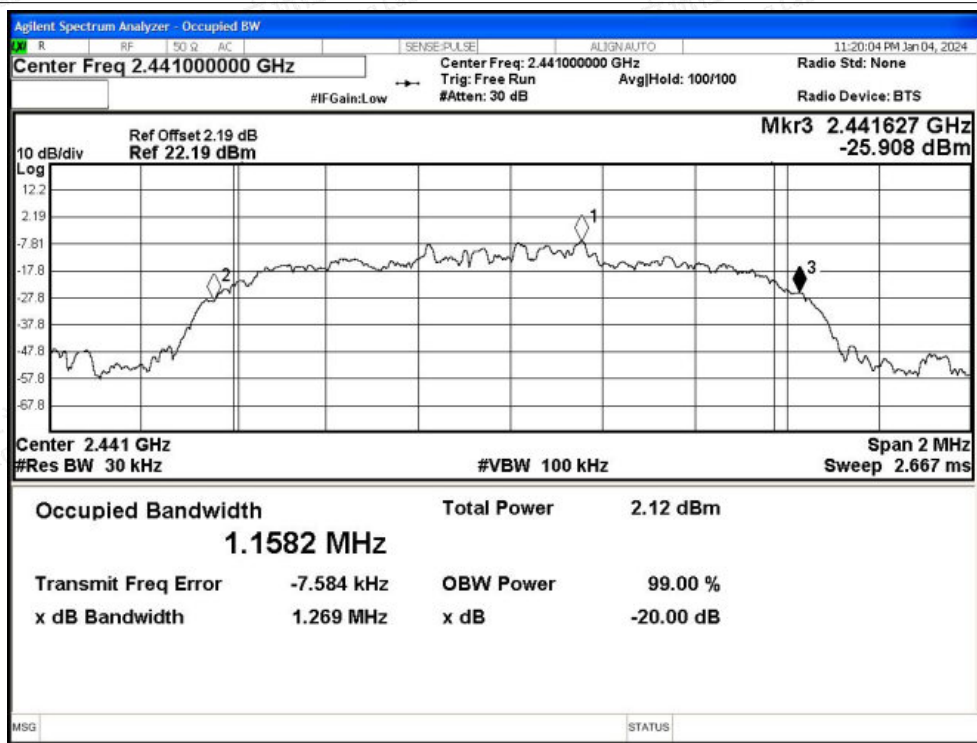


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.76	21	Pass
NVNT	1-DH5	2441	Ant1	-2.18	21	Pass
NVNT	1-DH5	2480	Ant1	-1.87	21	Pass
NVNT	2-DH5	2402	Ant1	-2.4	21	Pass
NVNT	2-DH5	2441	Ant1	-2.86	21	Pass
NVNT	2-DH5	2480	Ant1	-1.91	21	Pass

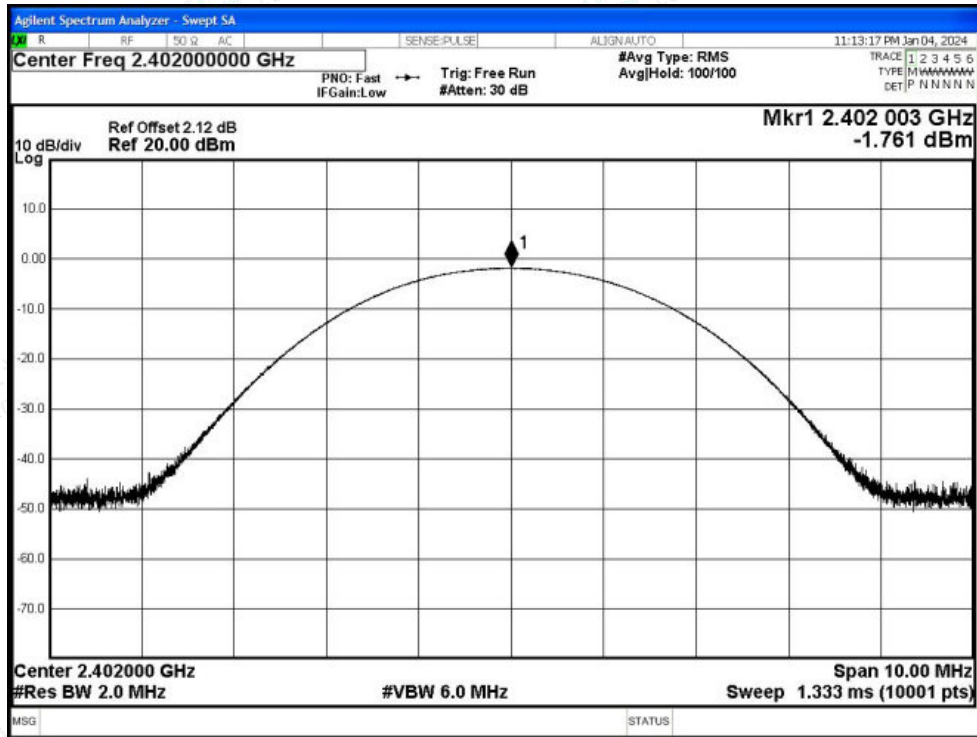


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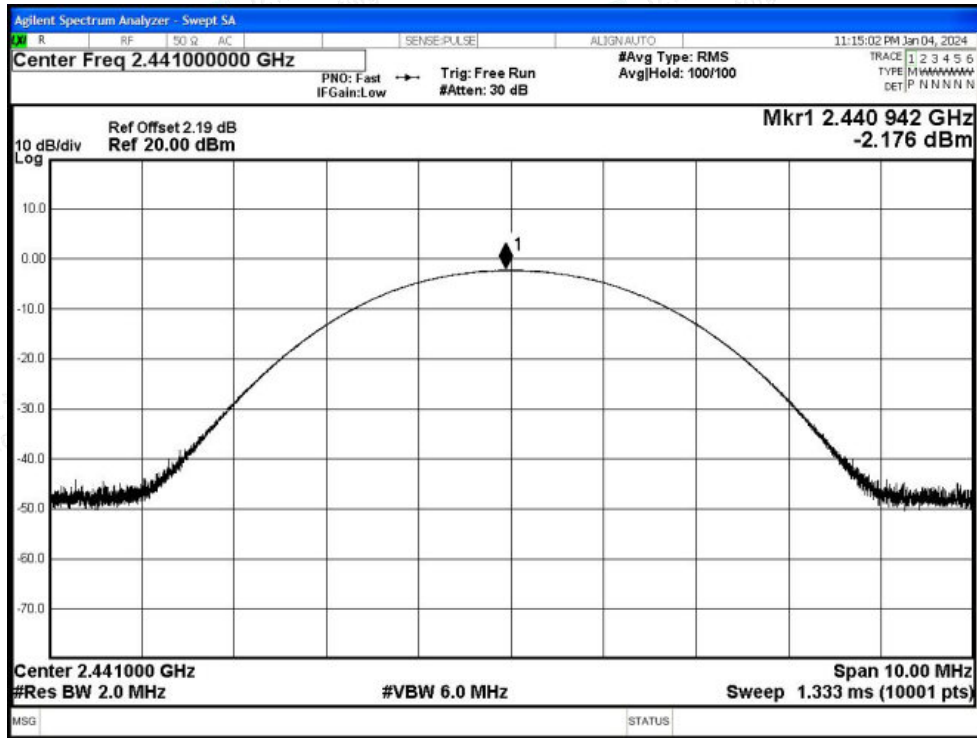


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

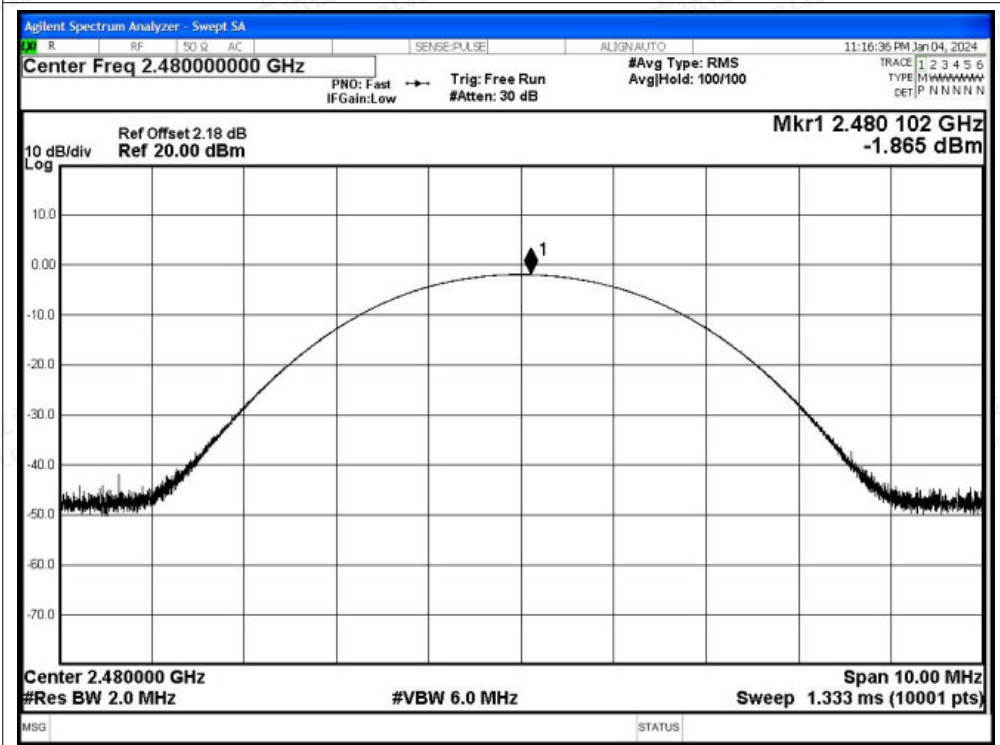


Power NVNT 1-DH5 2441MHz Ant1

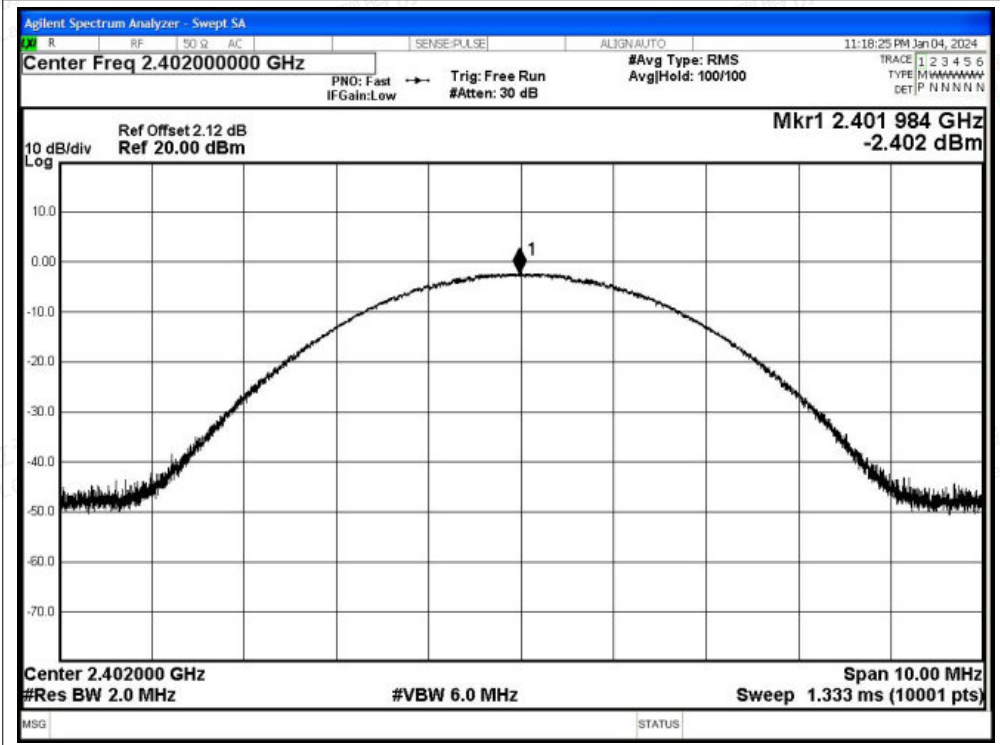




Power NVNT 1-DH5 2480MHz Ant1

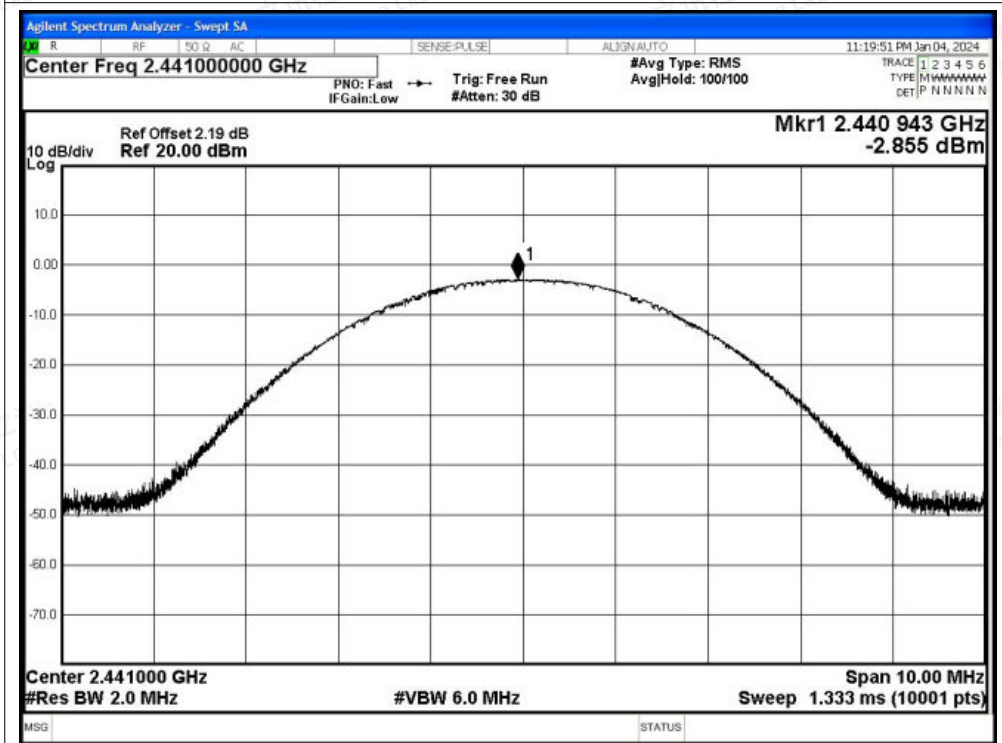


Power NVNT 2-DH5 2402MHz Ant1

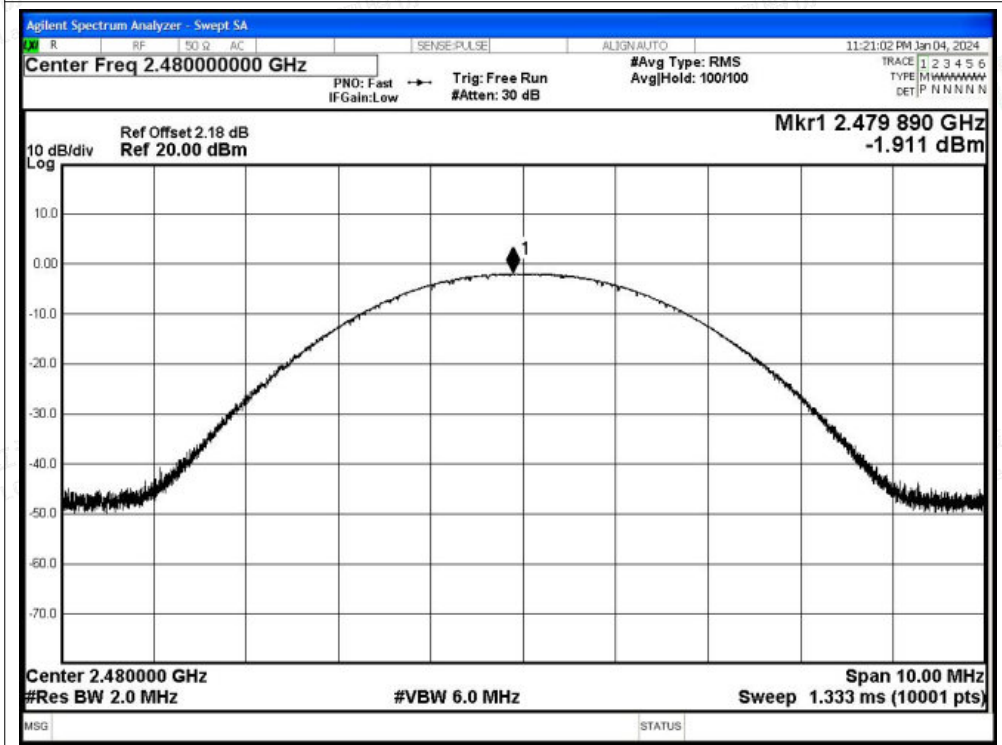




Power NVNT 2-DH5 2441MHz Ant1



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	2402.006	2403.01	1.004	0.572	Pass
NVNT	2-DH5	Ant1	2402.16	2403.156	0.996	0.846	Pass

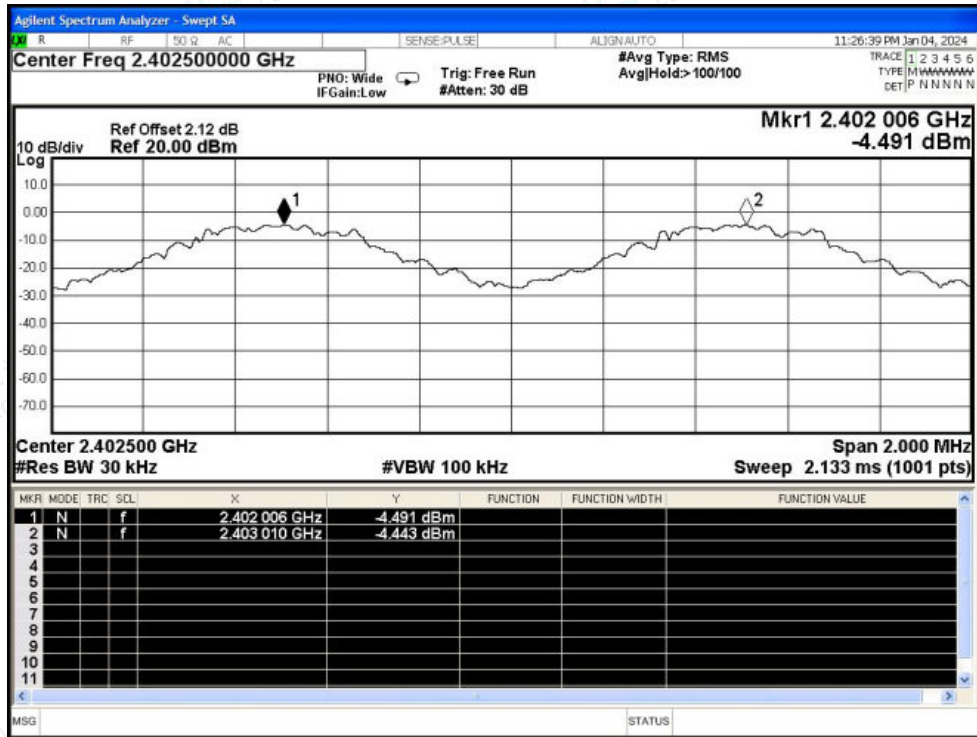


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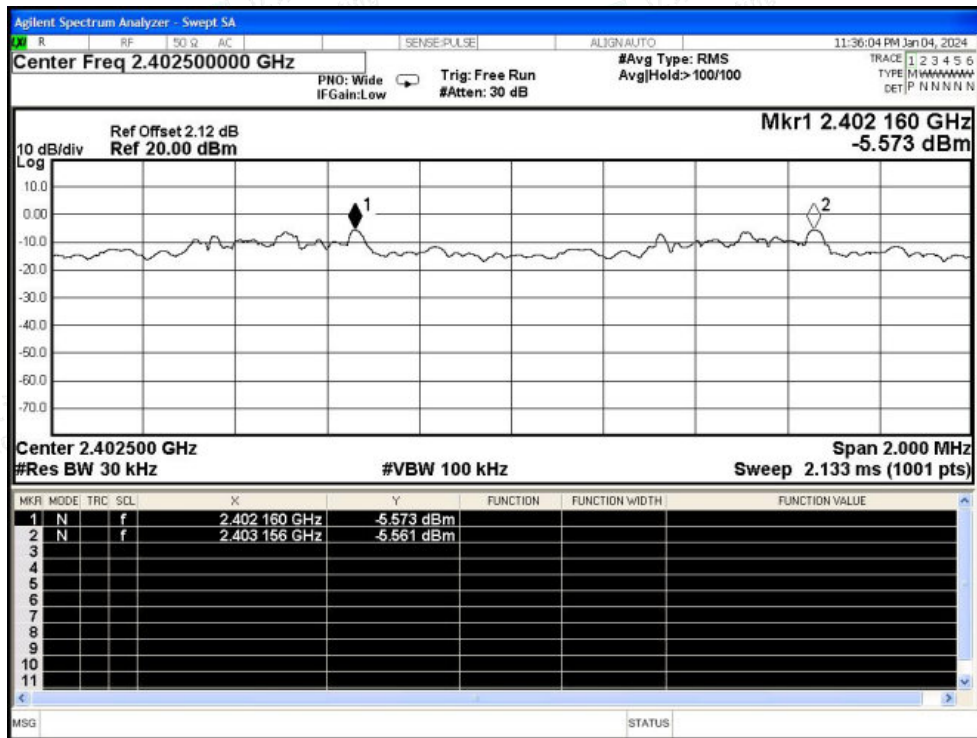


Test Graphs

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	293.964	102	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	294.27	102	31600	400	Pass

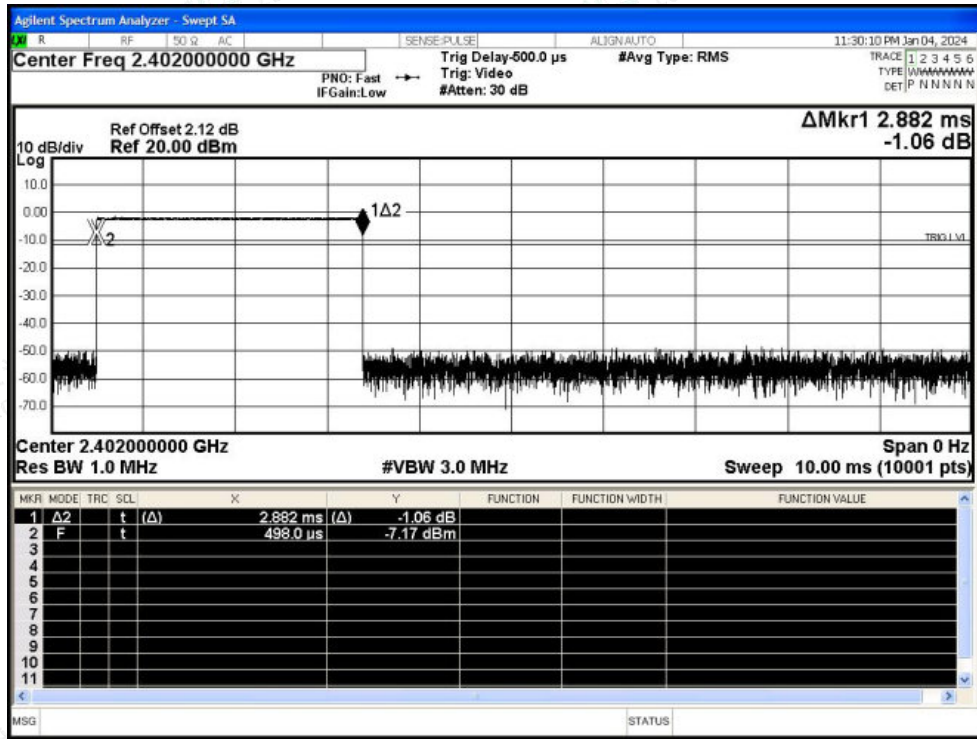


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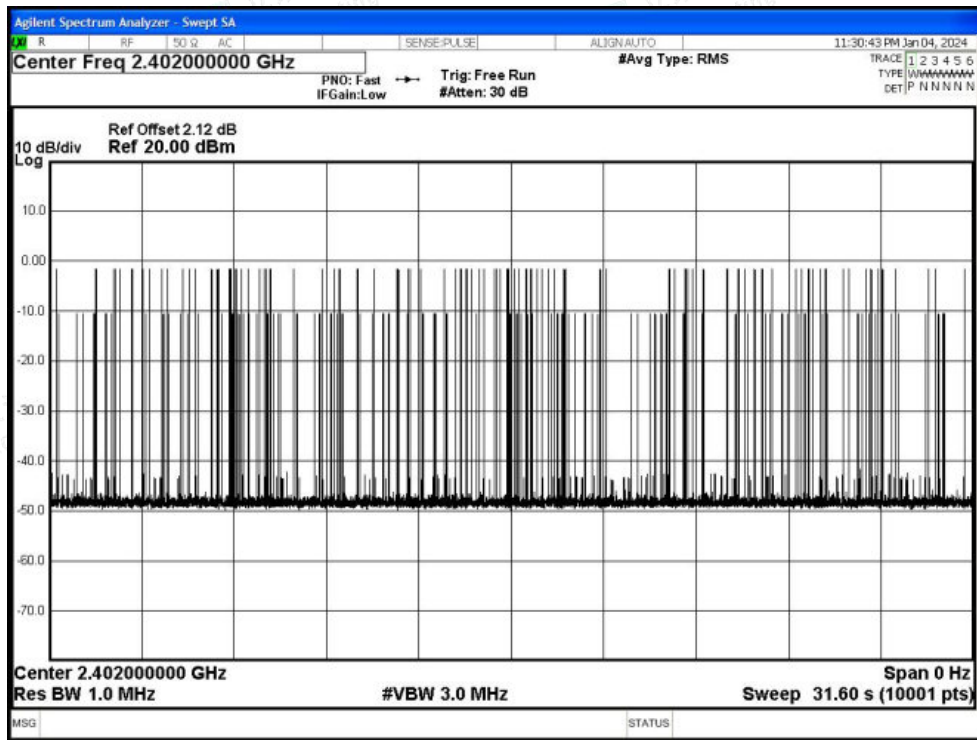


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

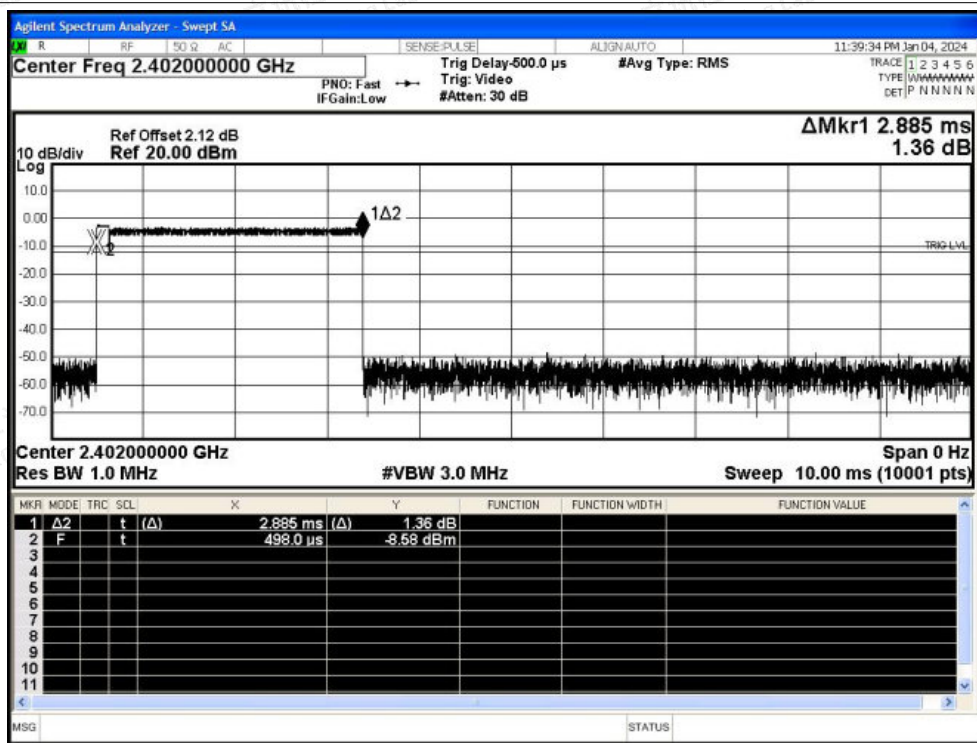


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

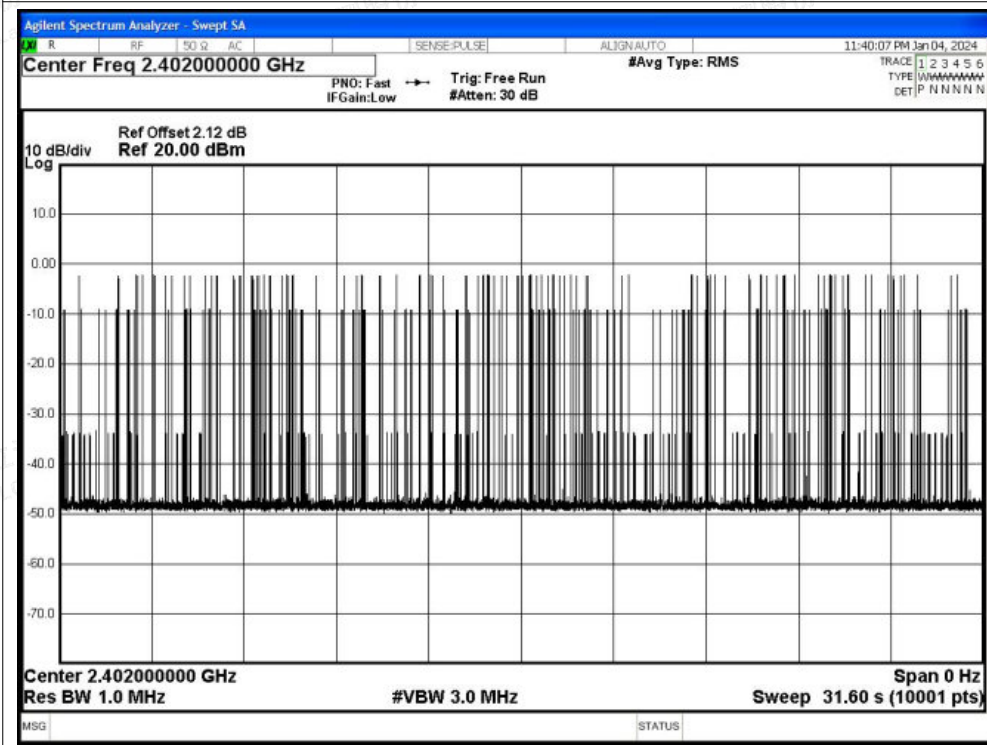




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



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

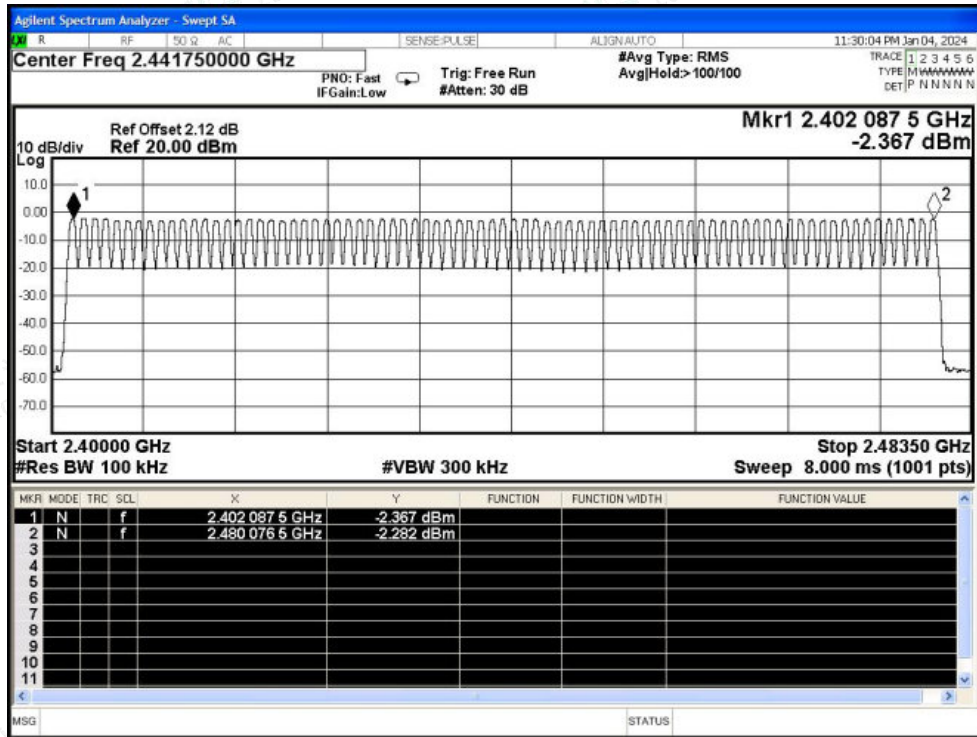


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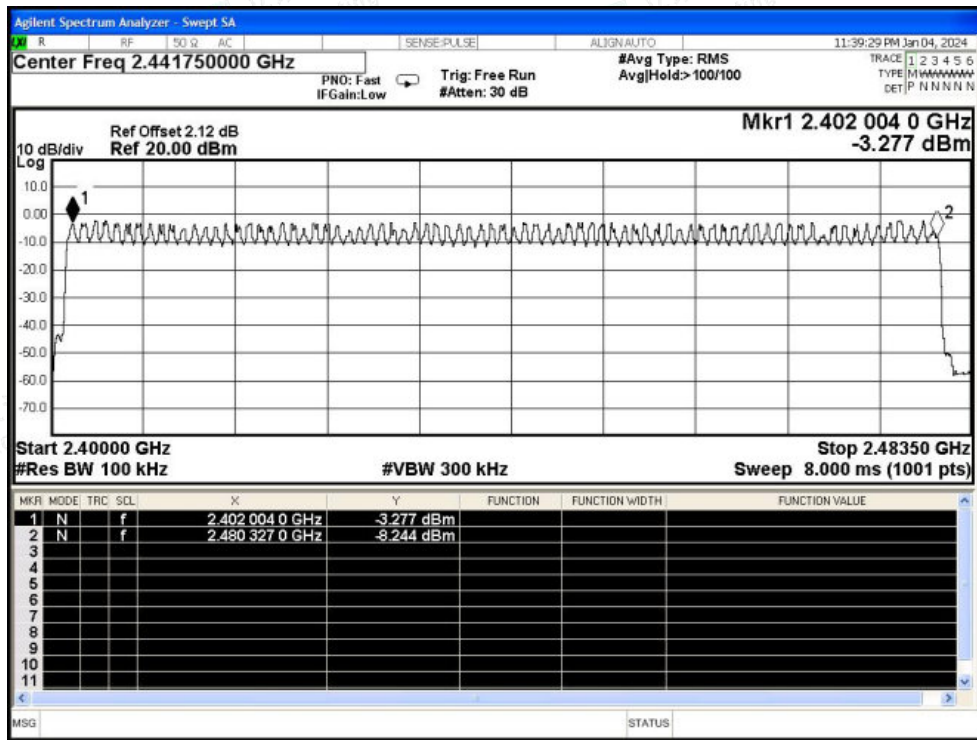


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

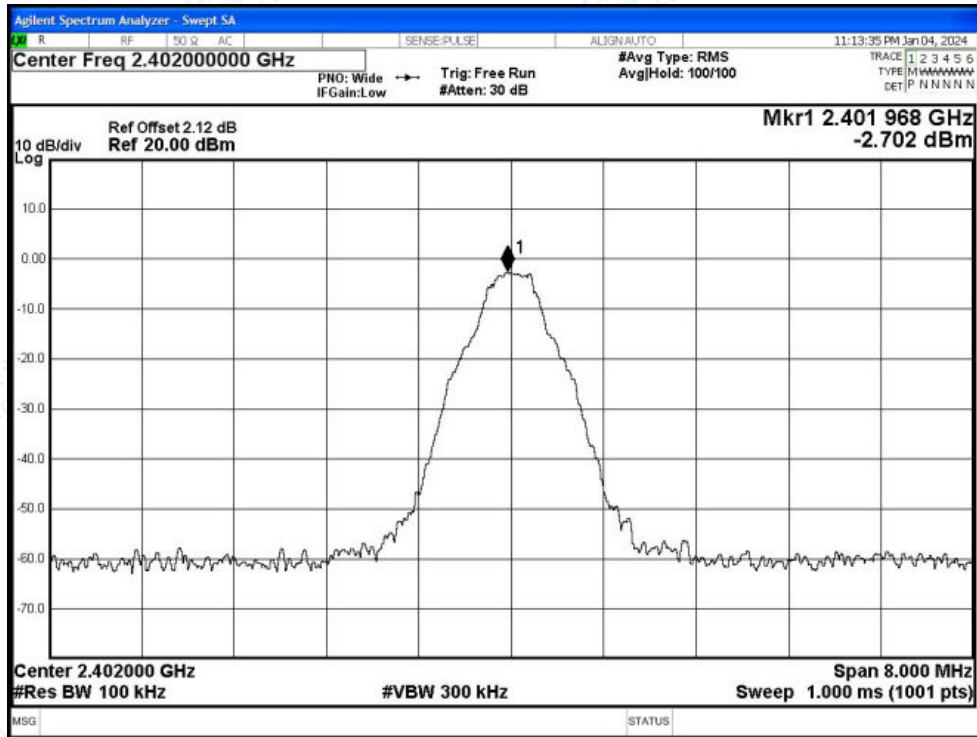
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.28	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.8	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.7	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.95	-20	Pass



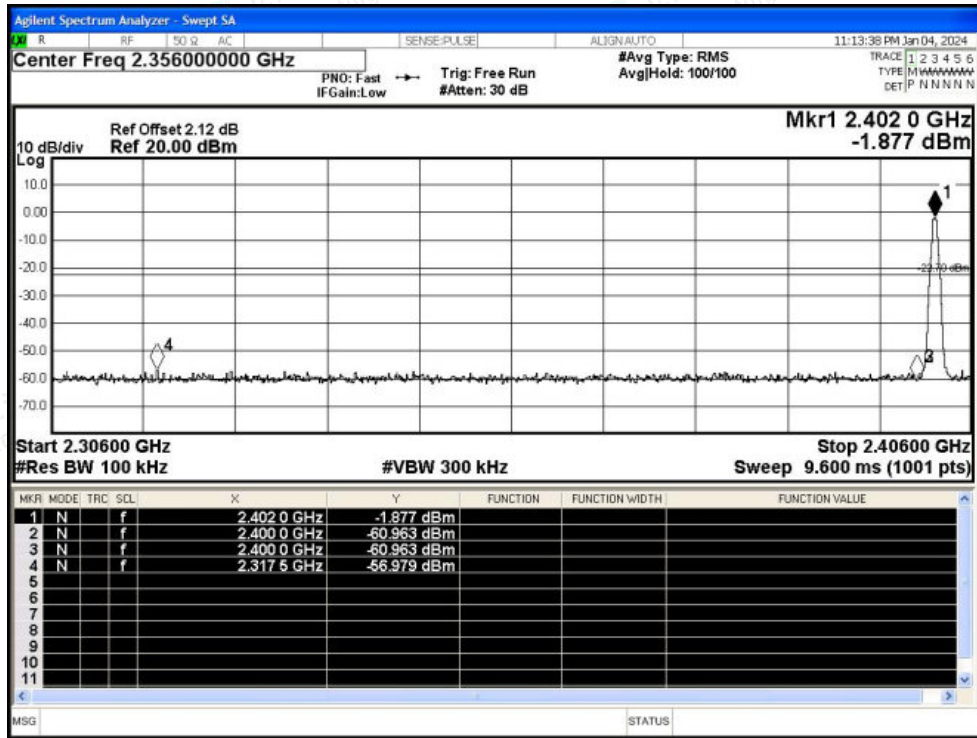


Test Graphs

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

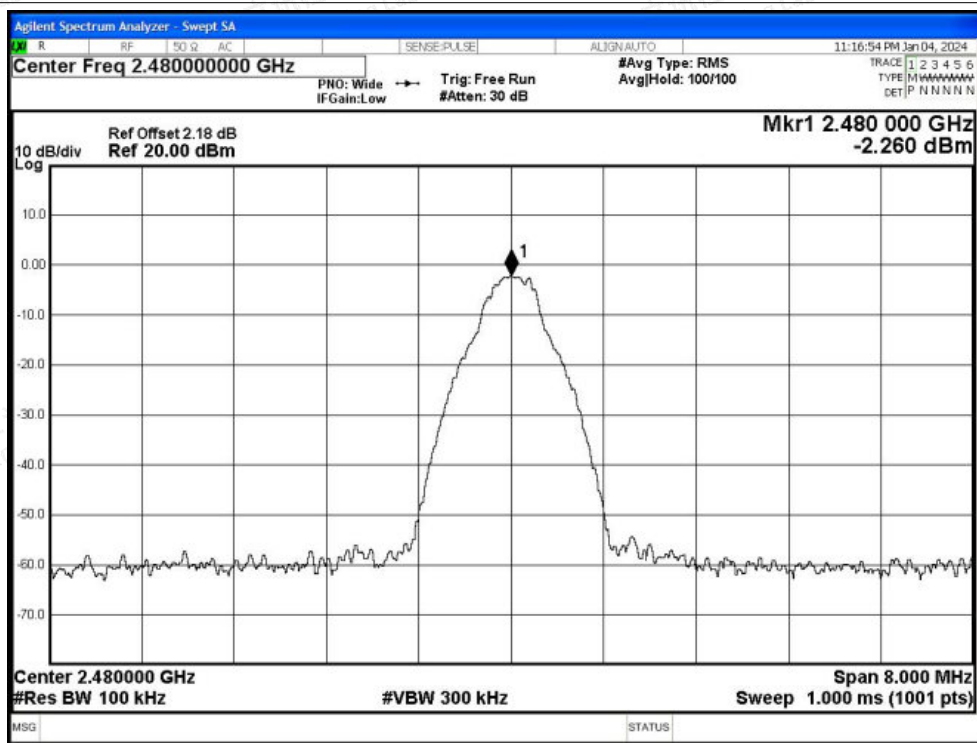


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

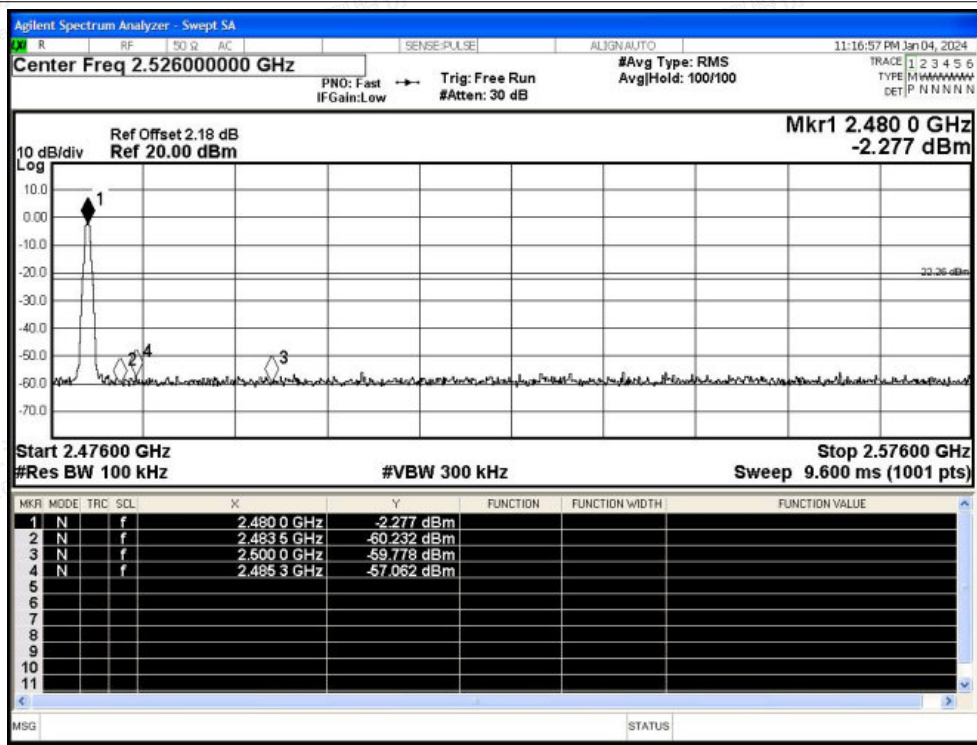




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

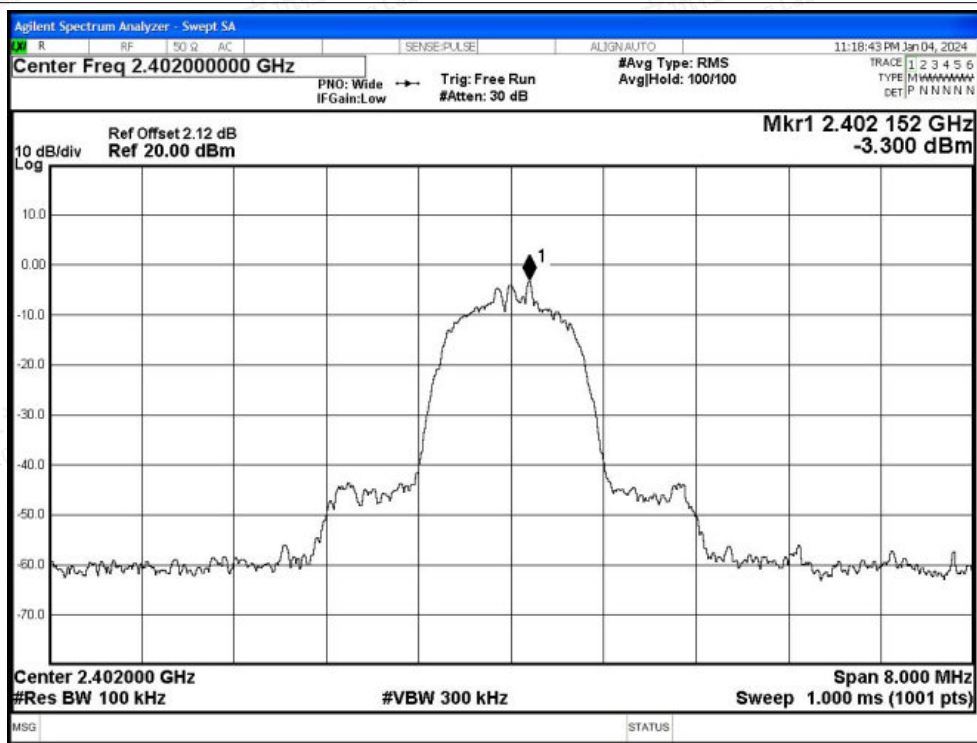


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

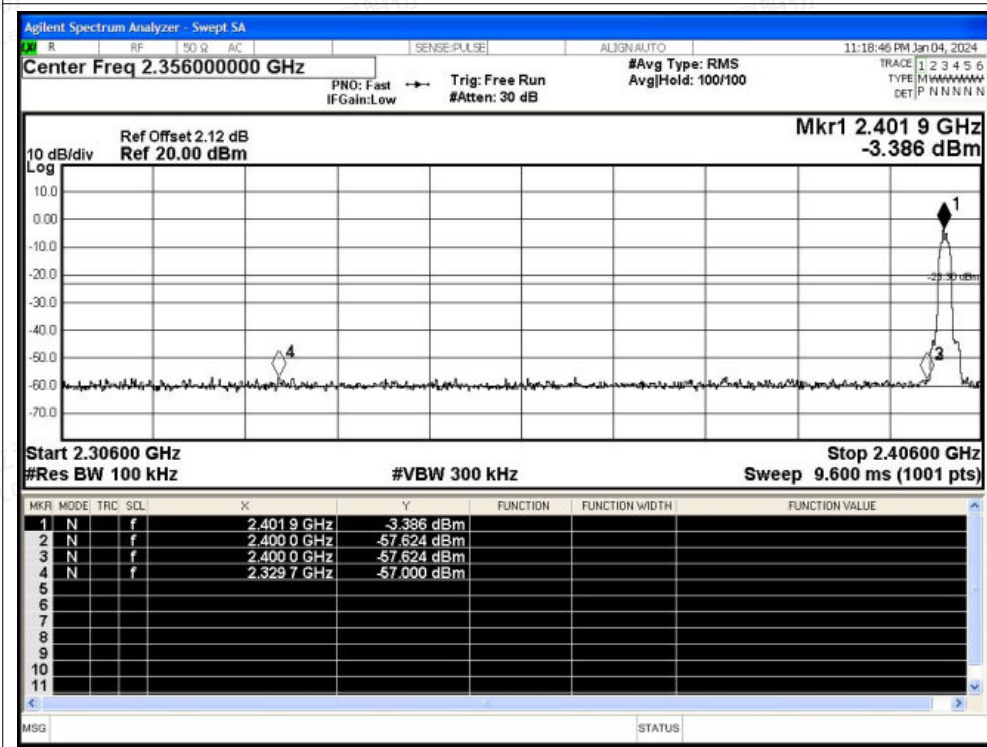




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

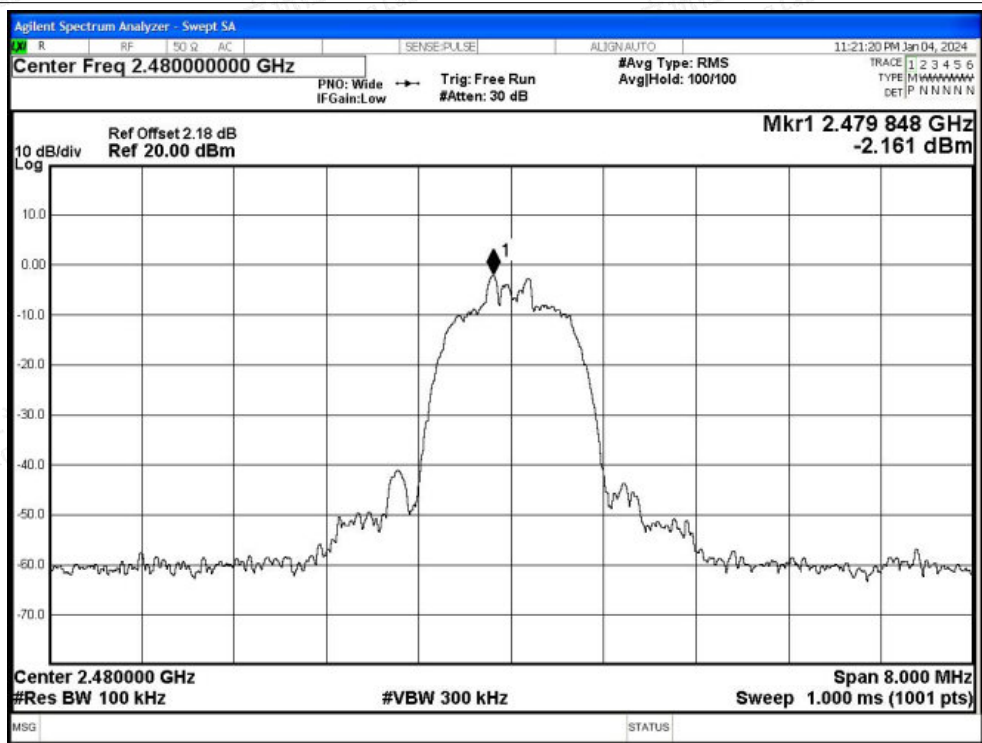


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

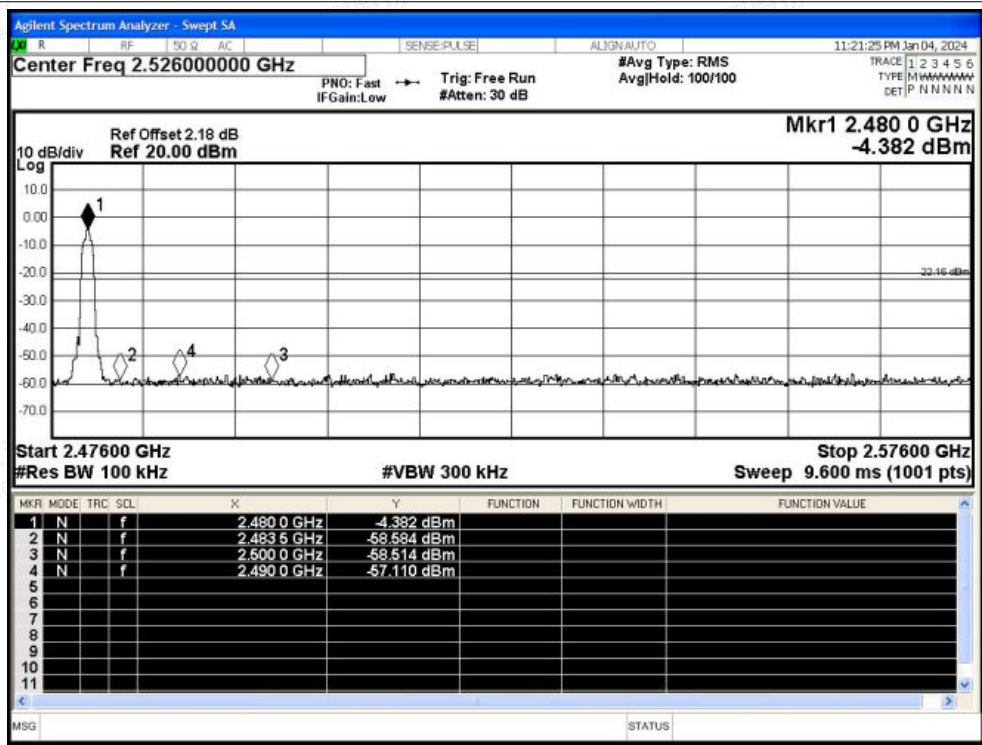




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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	-53.97	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.69	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.51	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.48	-20	Pass

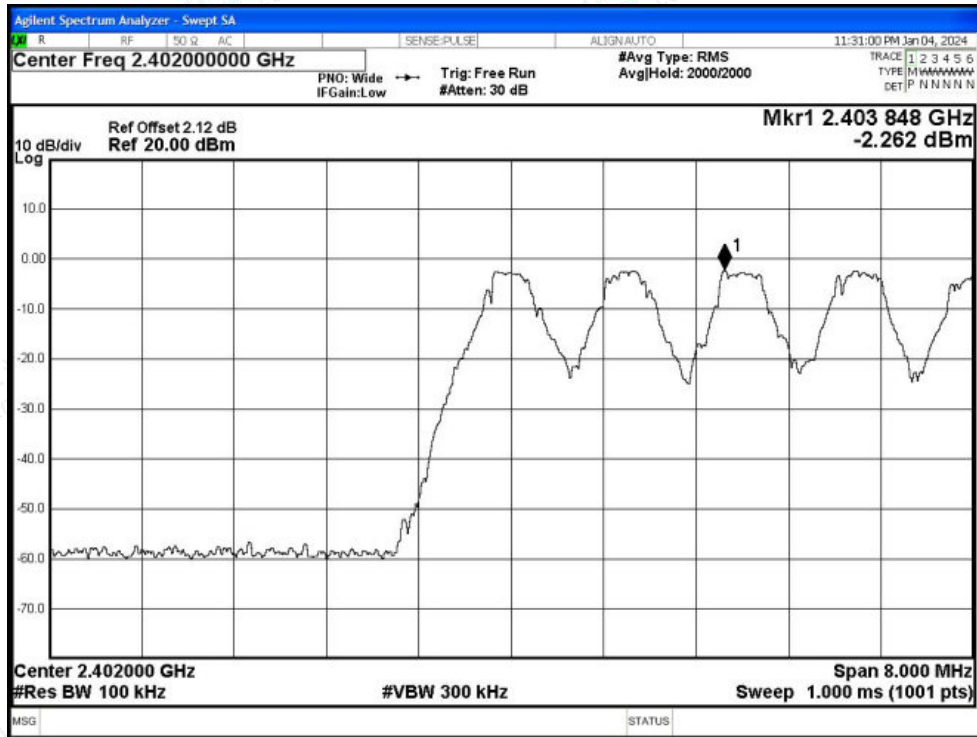


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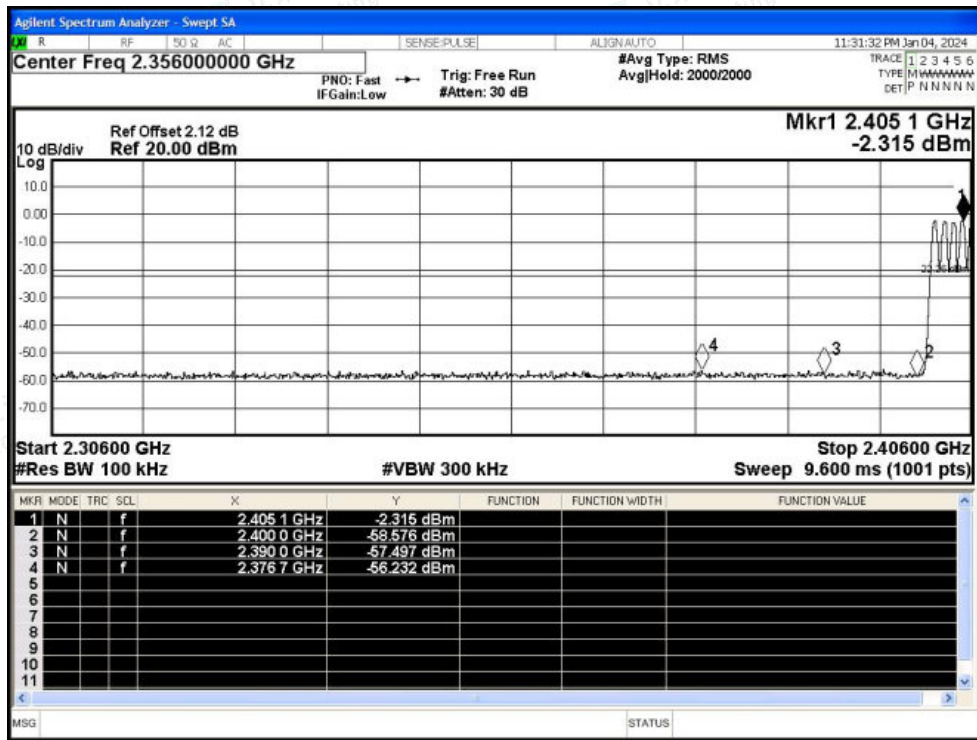


Test Graphs

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

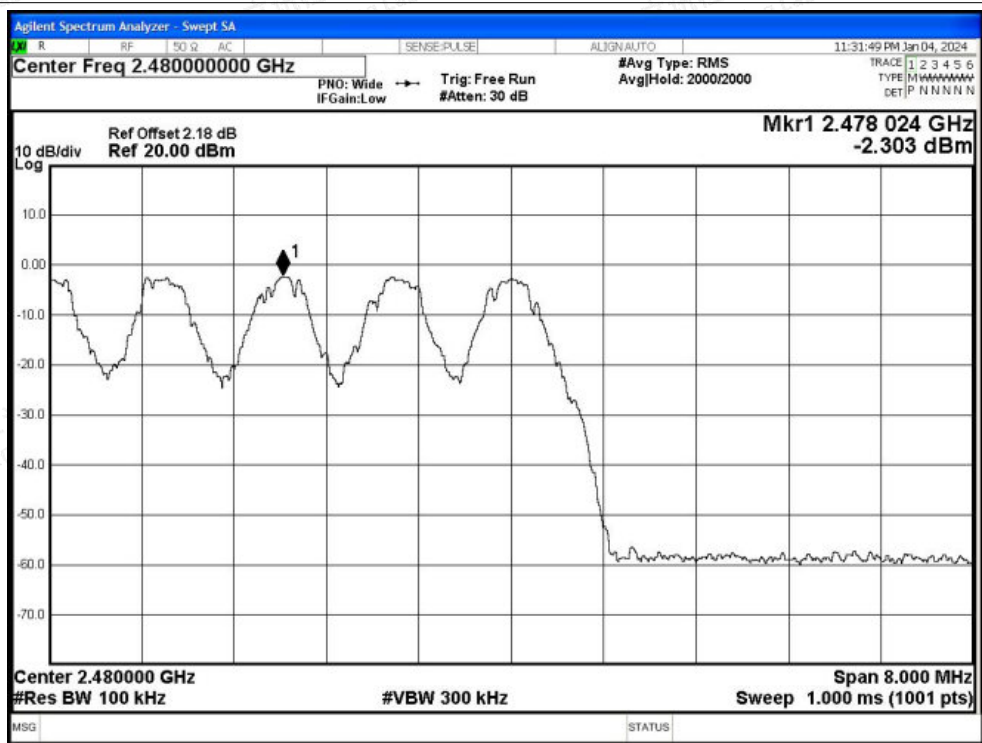


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

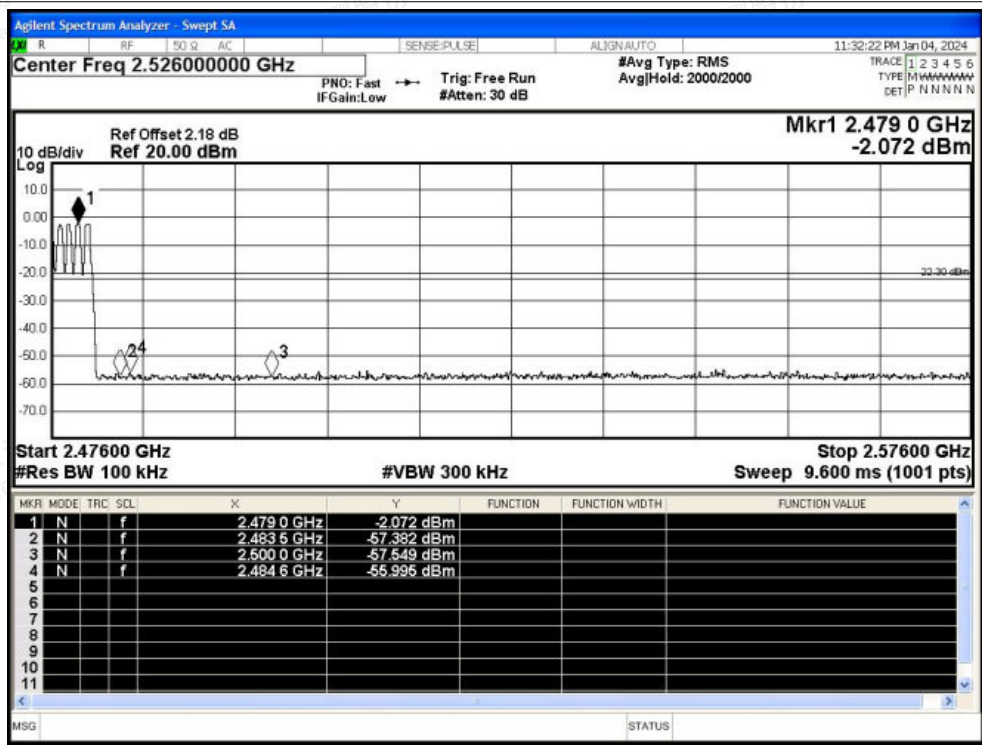




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

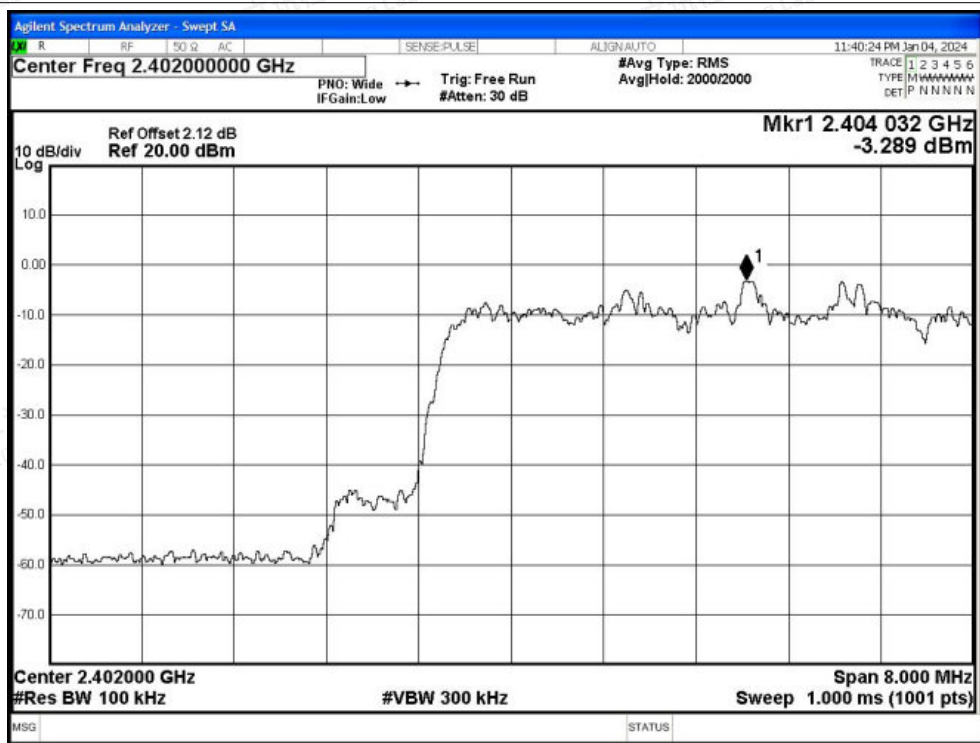


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

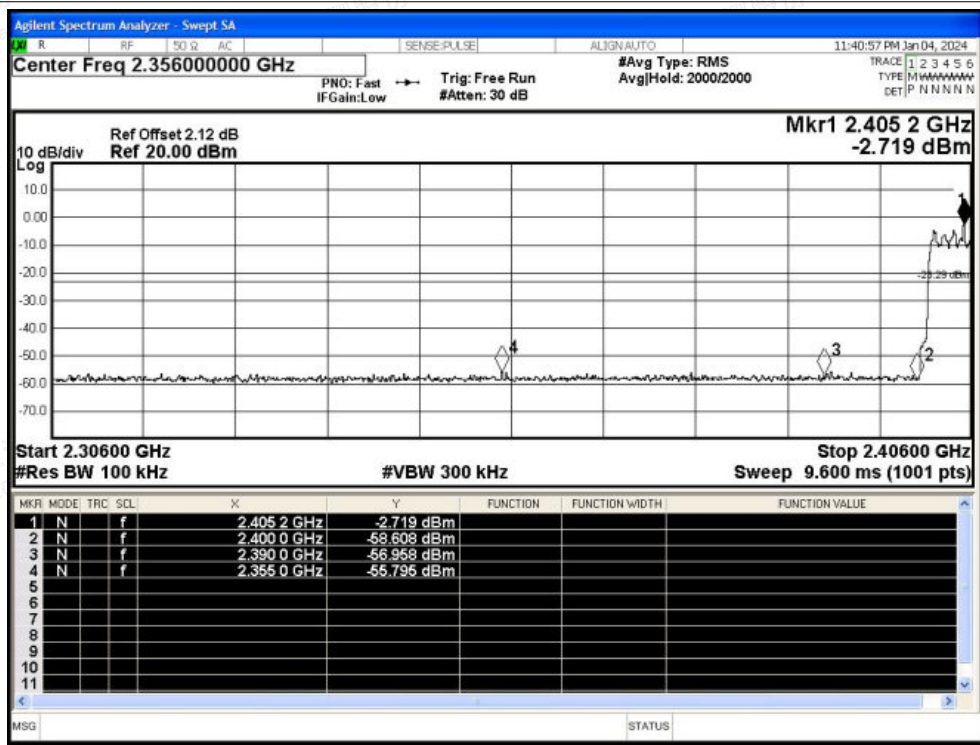




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

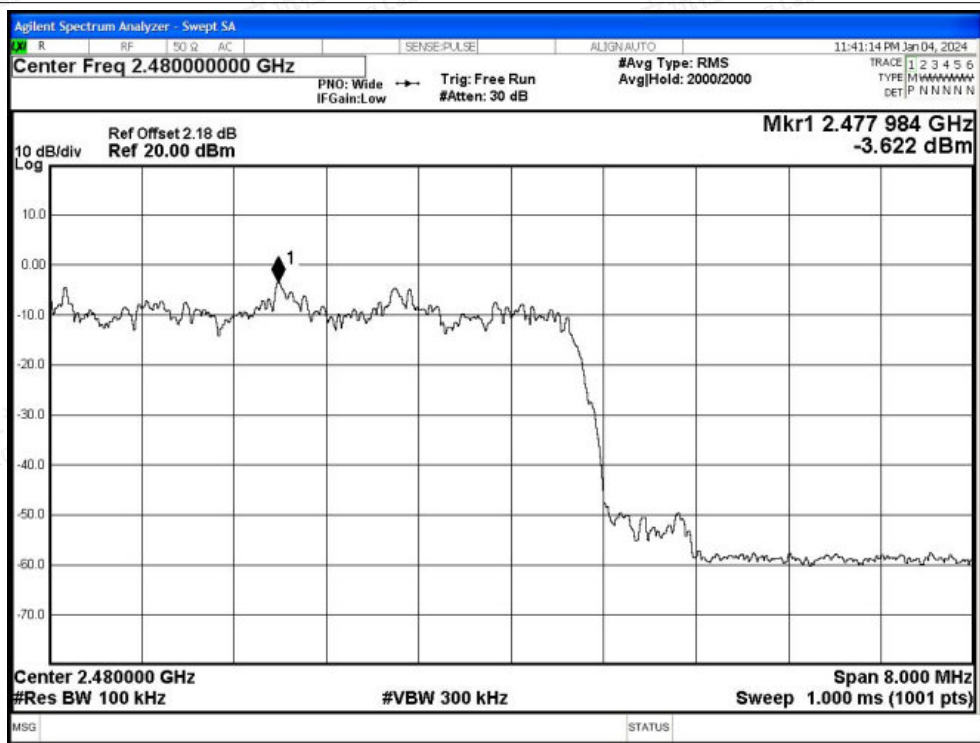


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

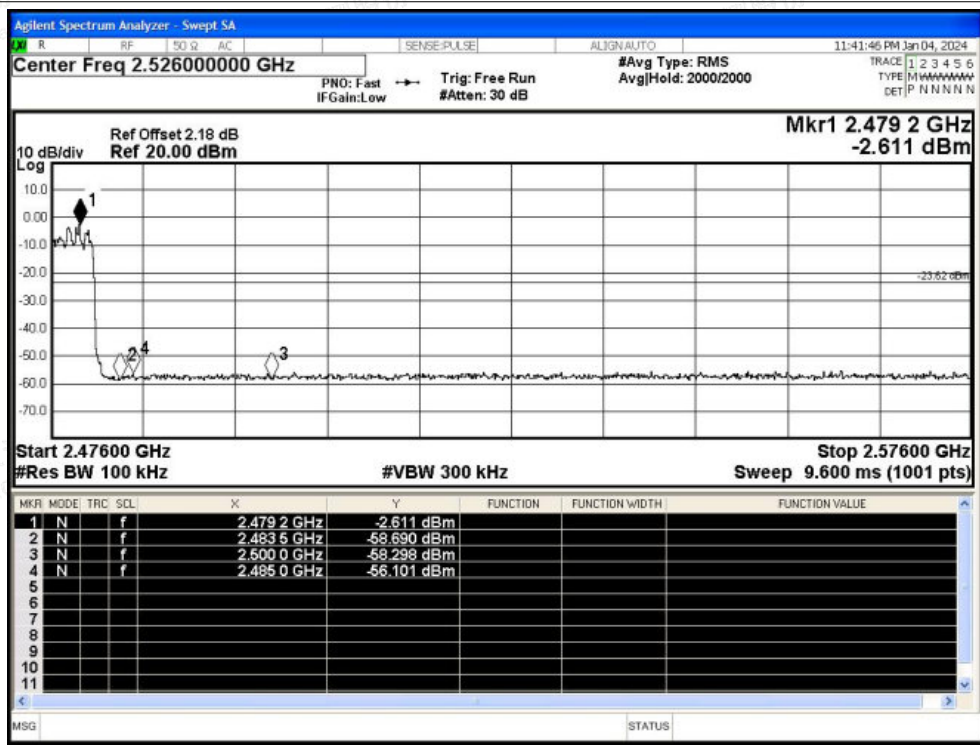




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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	-52.68	-20	Pass
NVNT	1-DH5	2441	Ant1	-51.3	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.98	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.49	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.96	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.91	-20	Pass

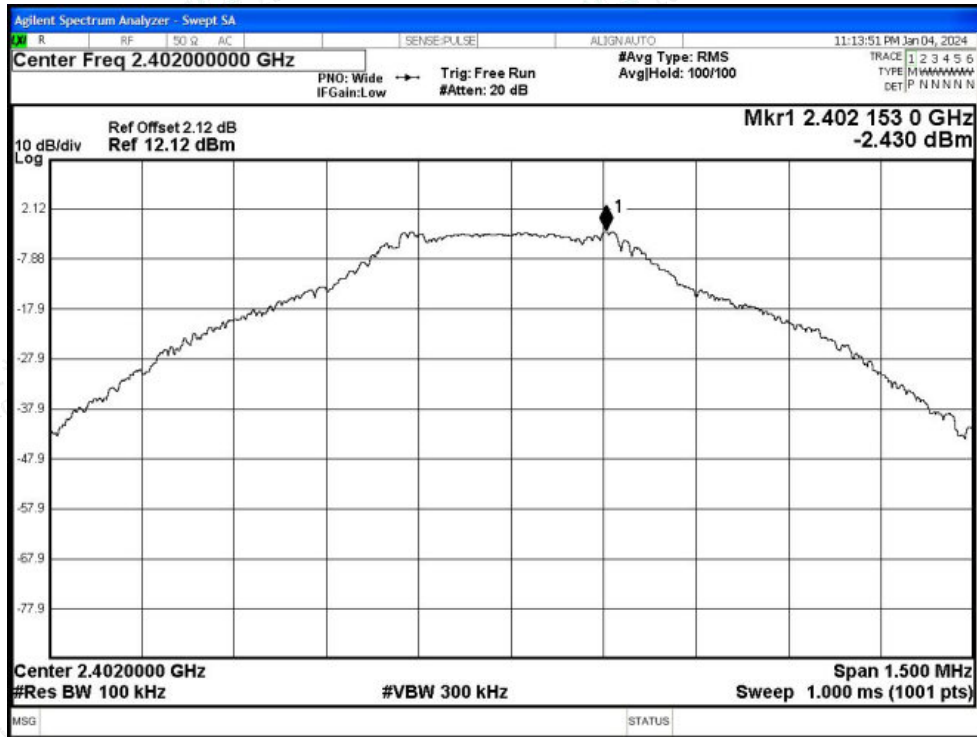


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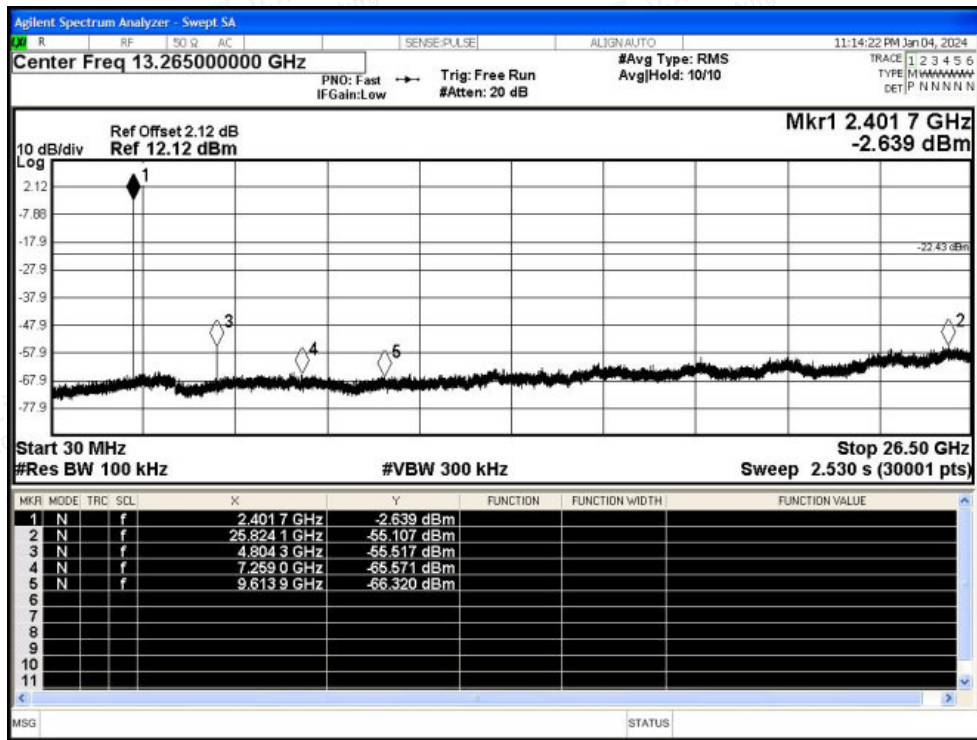


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

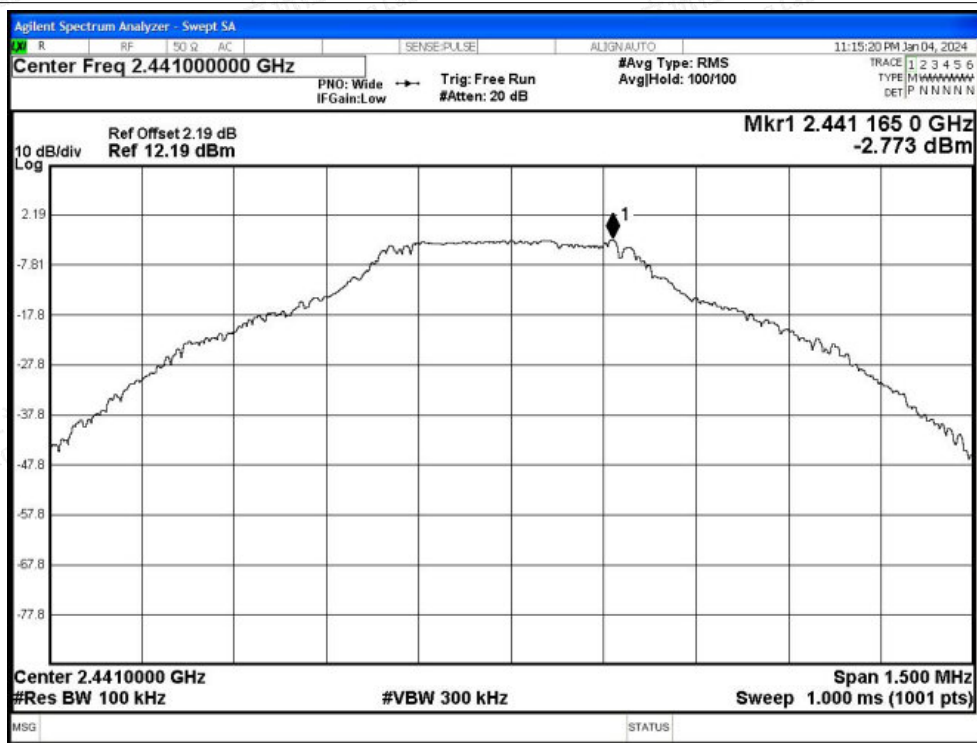


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

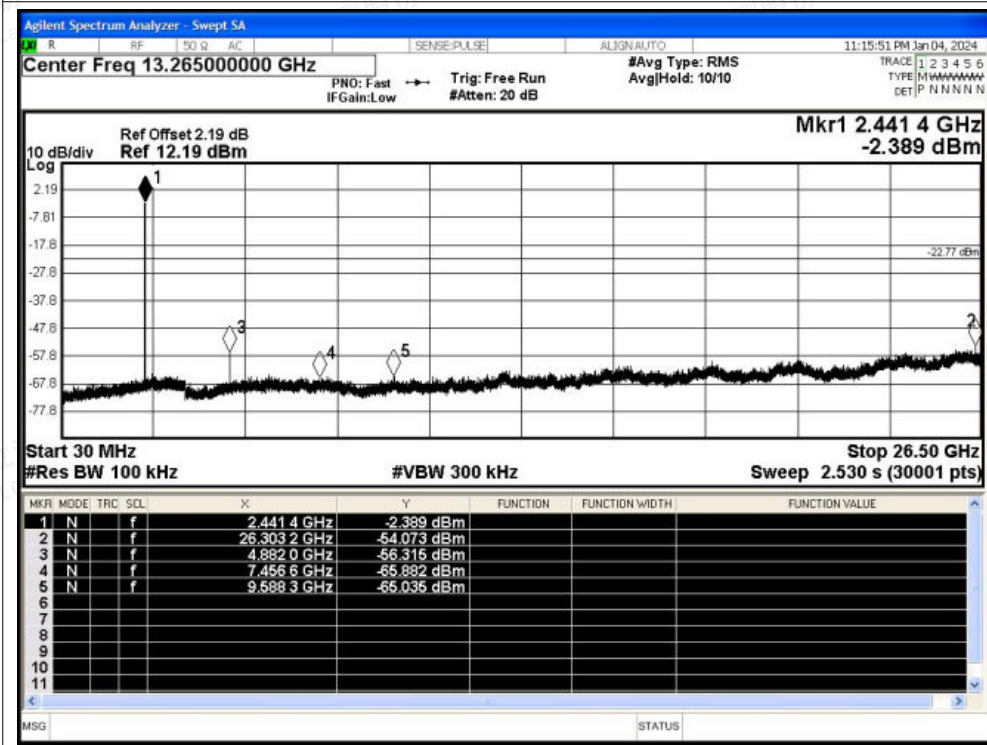




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

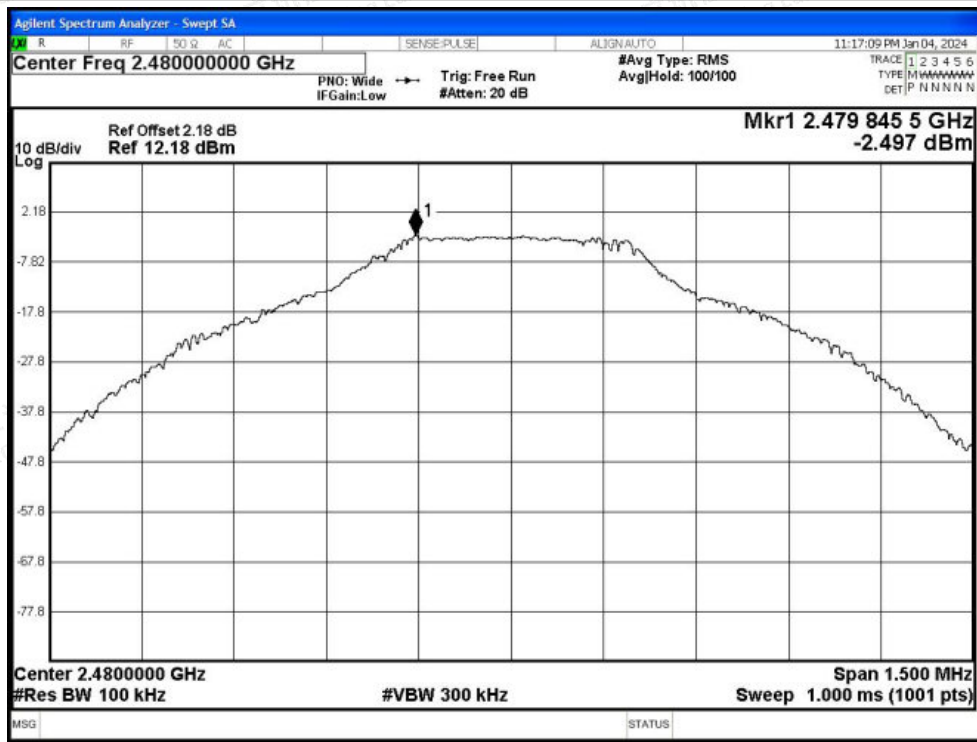


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

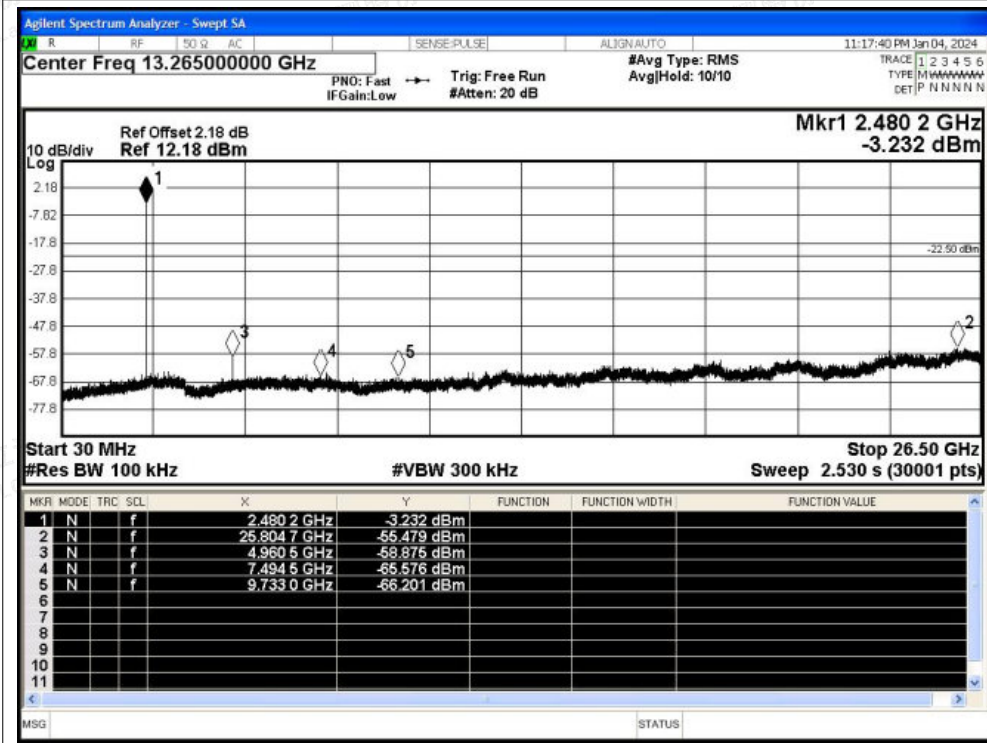




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

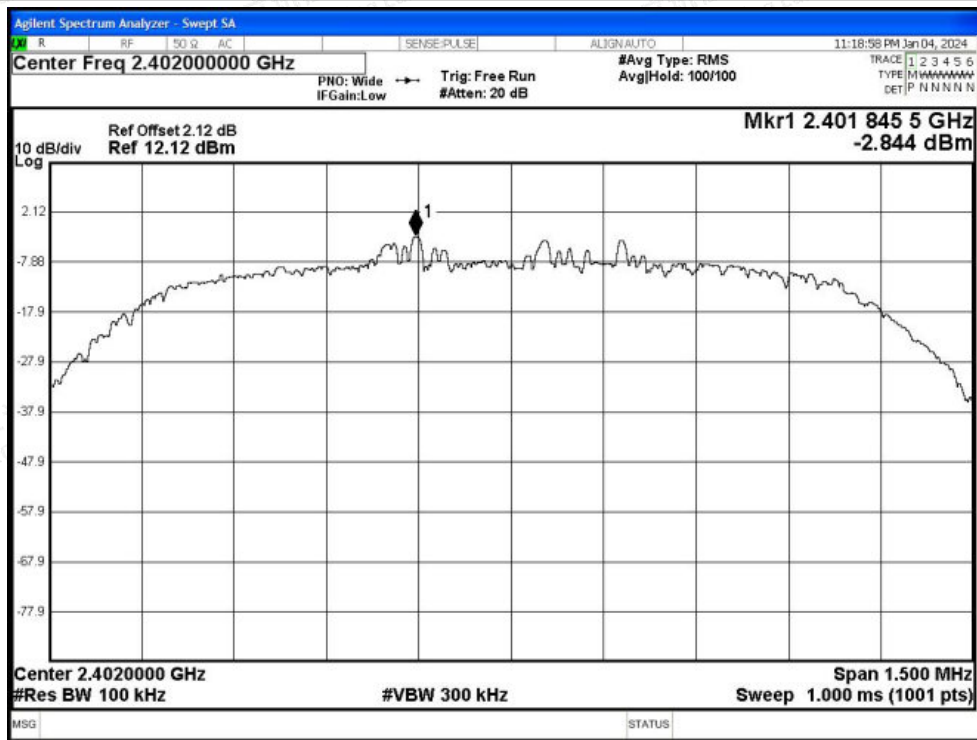


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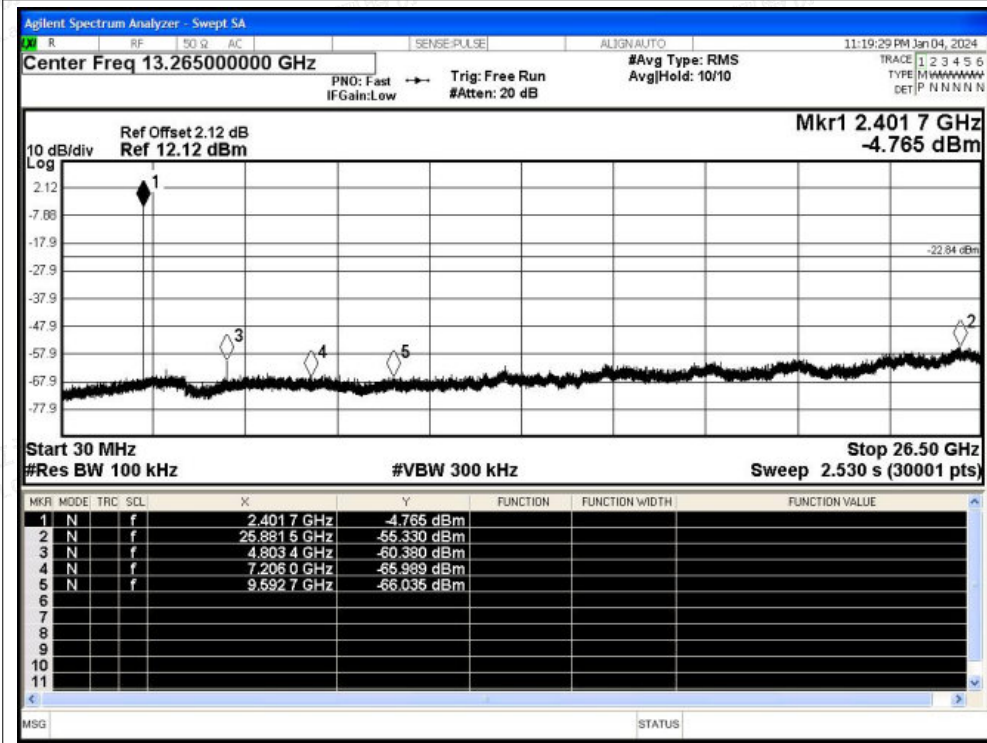




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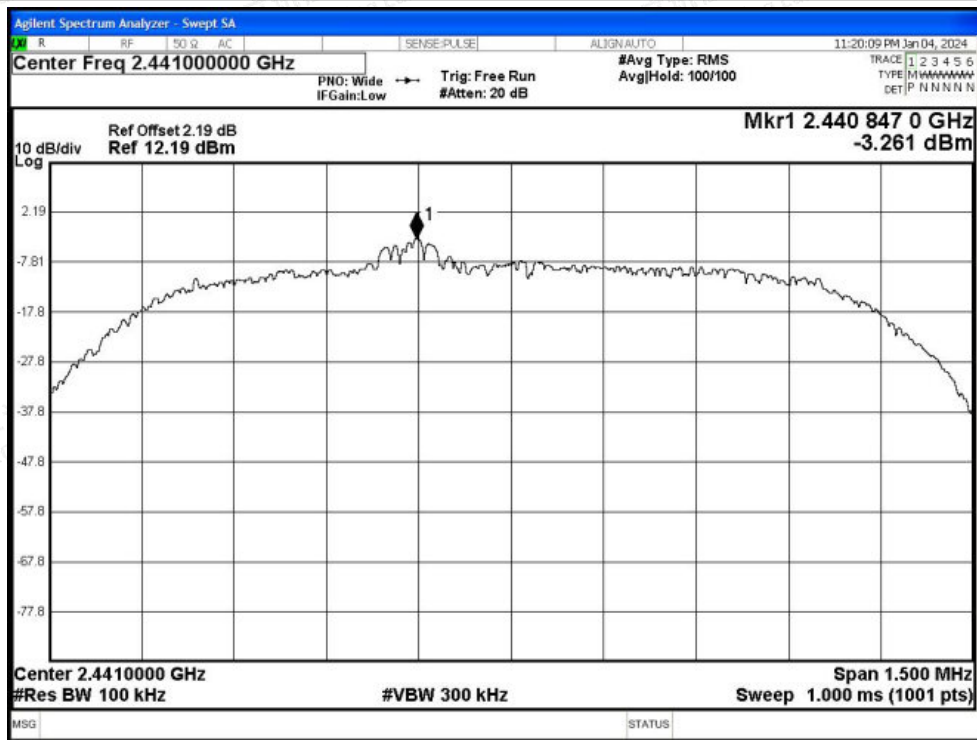


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

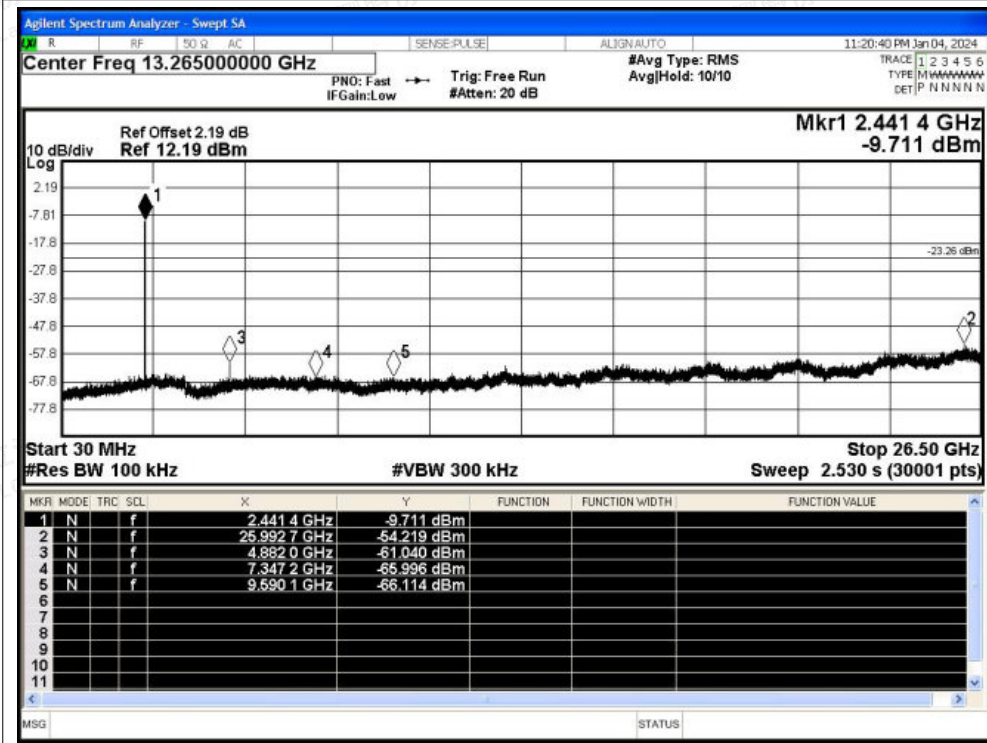




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

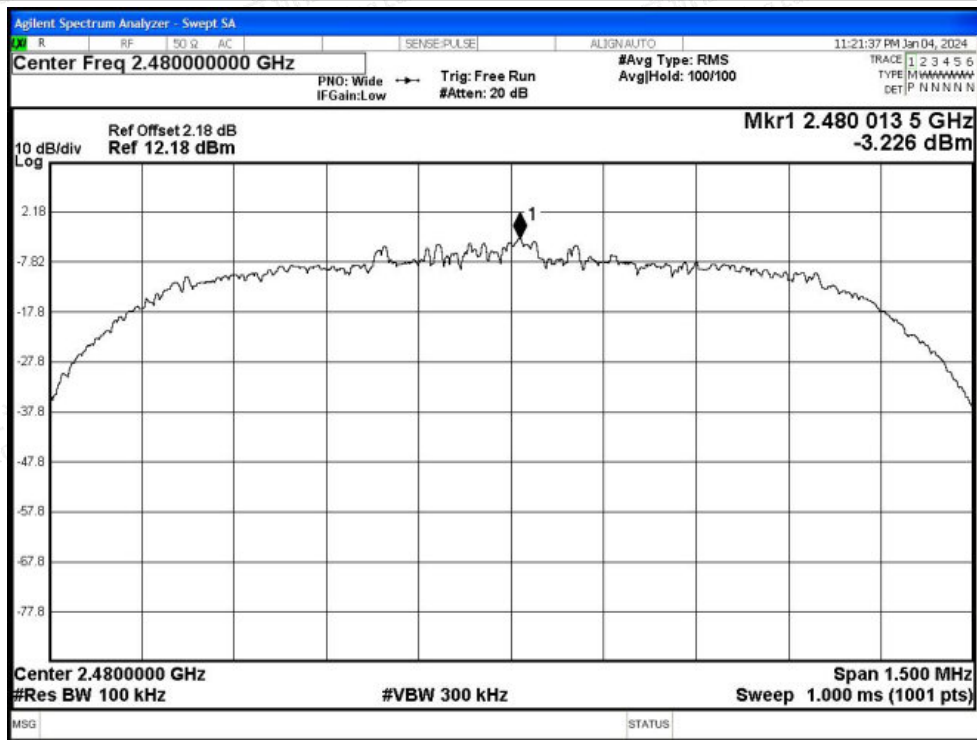


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

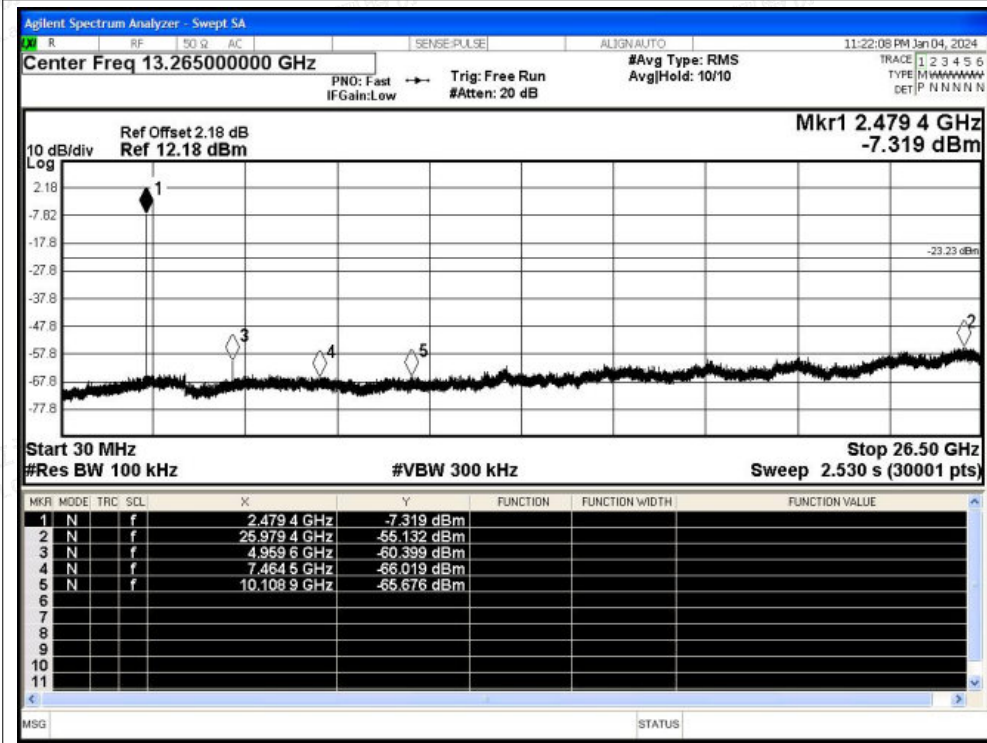




Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 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	-50.1	3.4	-	48.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.71	3.4	1.14	39.95	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2333.904	-46.53	3.4	-	52.13	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.888	-57.53	3.4	1.14	41.13	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.24	3.4	-	48.42	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.4	3.4	1.14	40.26	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.38	3.4	-	47.28	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.63	3.4	1.14	41.03	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.536	-46.84	3.4	-	51.82	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.408	-57.09	3.4	1.14	41.57	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.72	3.4	-	48.94	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.84	3.4	1.14	40.82	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.48	3.4	-	49.18	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.93	3.4	1.14	39.73	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2375.76	-46.4	3.4	-	52.26	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2374.992	-57.54	3.4	1.14	41.12	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.43	3.4	-	48.23	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.35	3.4	1.14	40.31	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.4	3.4	-	48.26	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.25	3.4	1.14	40.41	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.32	-46.23	3.4	-	52.43	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.312	-57.12	3.4	1.14	41.54	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.33	3.4	-	49.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.66	3.4	1.14	41	Average	54	Pass

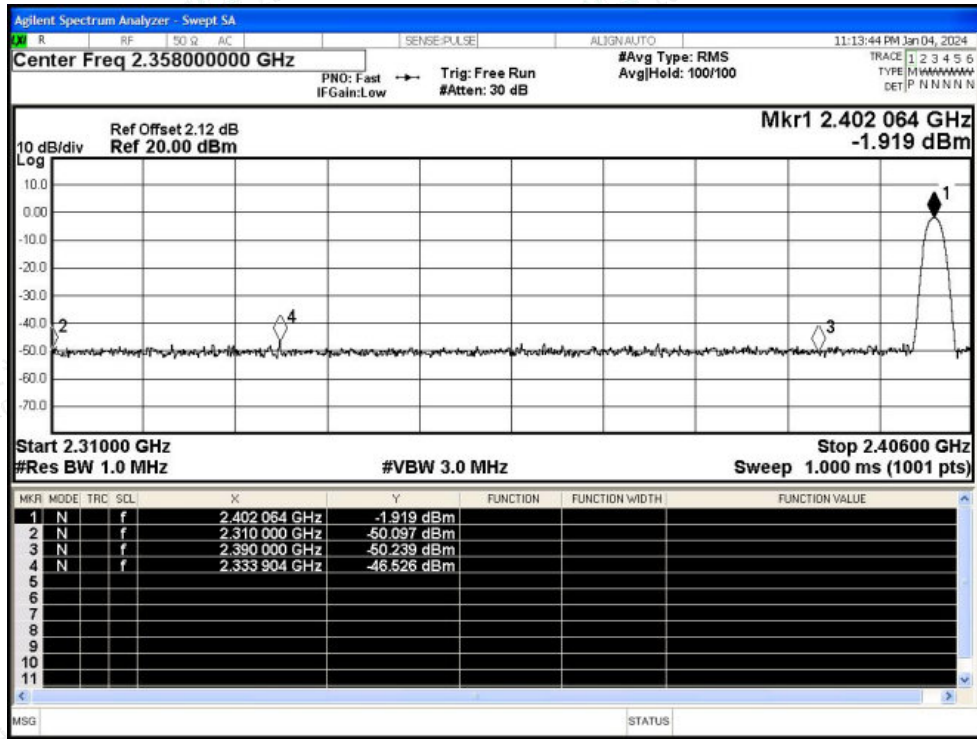


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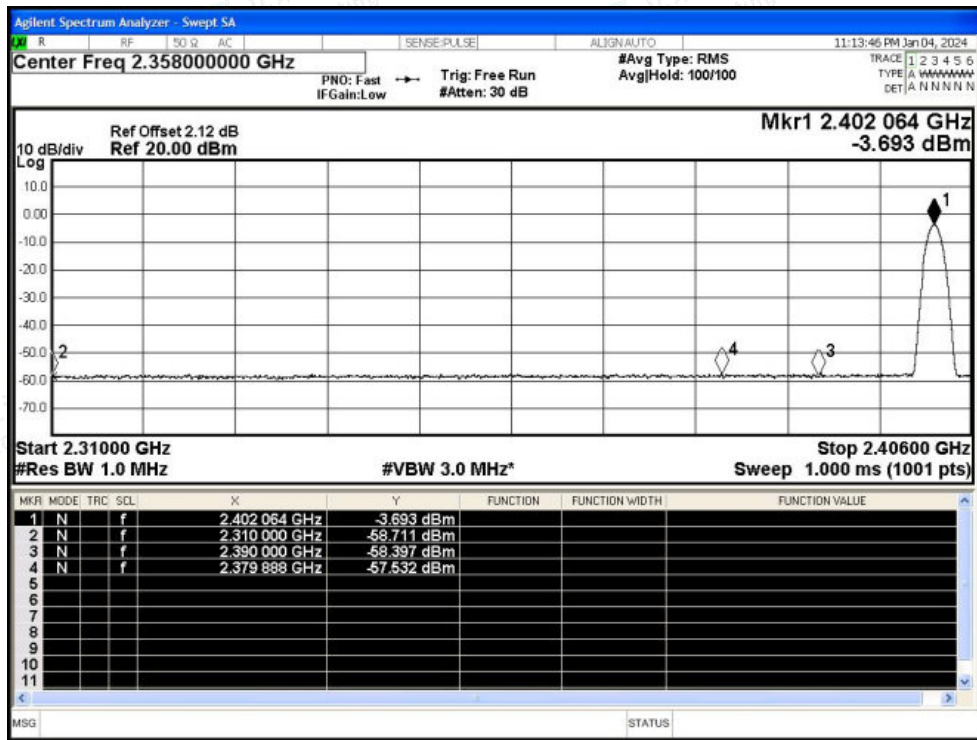


Test Graphs

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

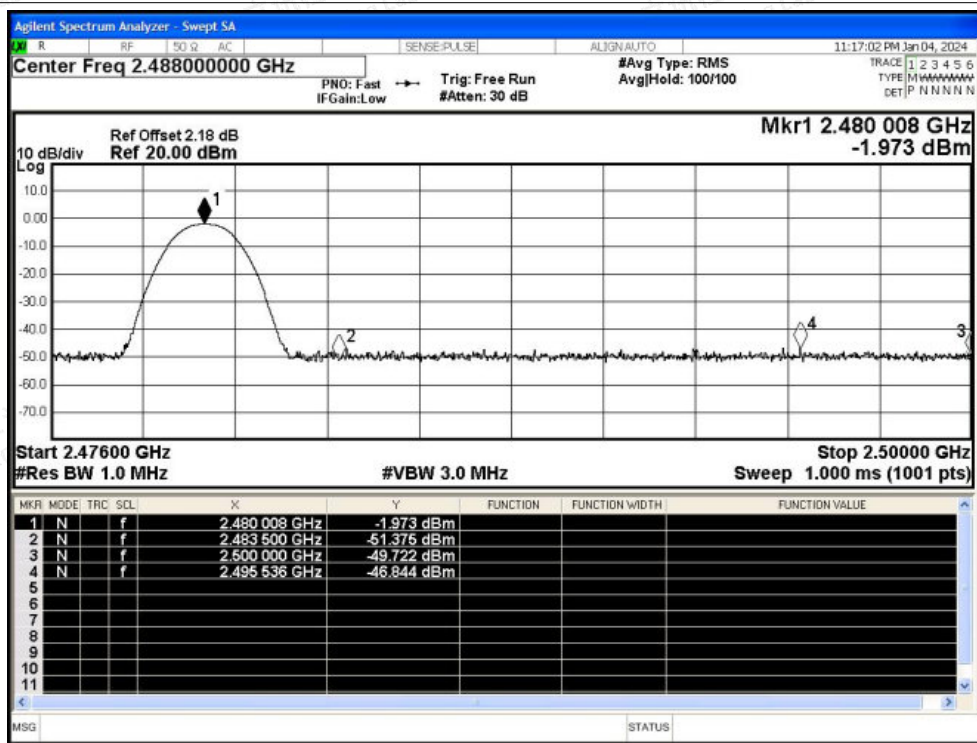


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

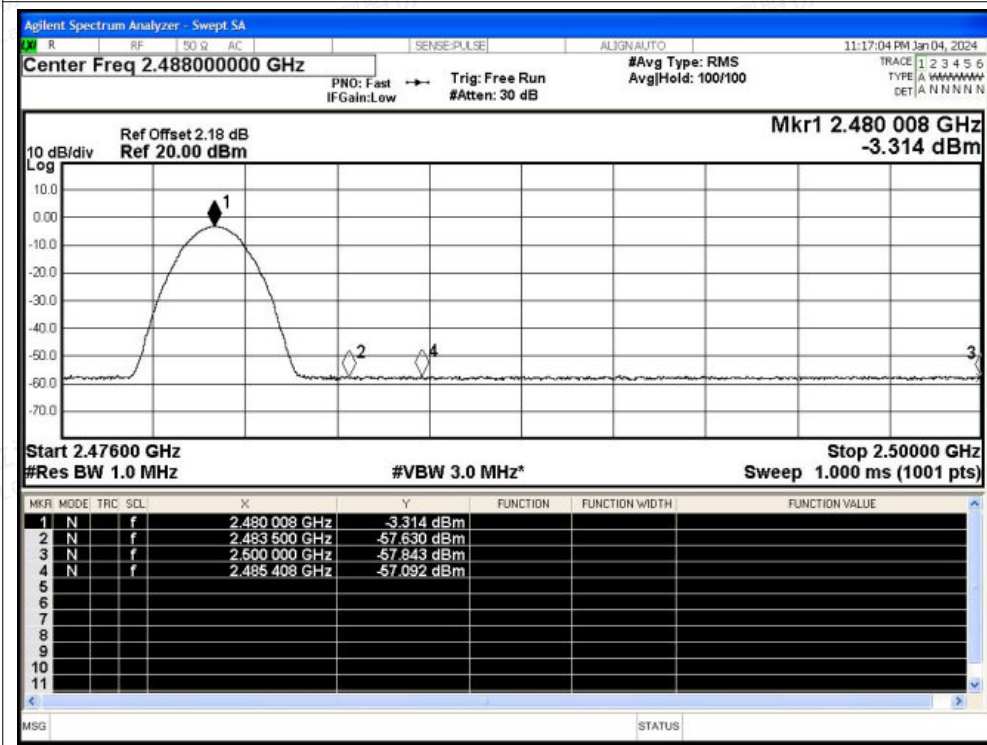




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

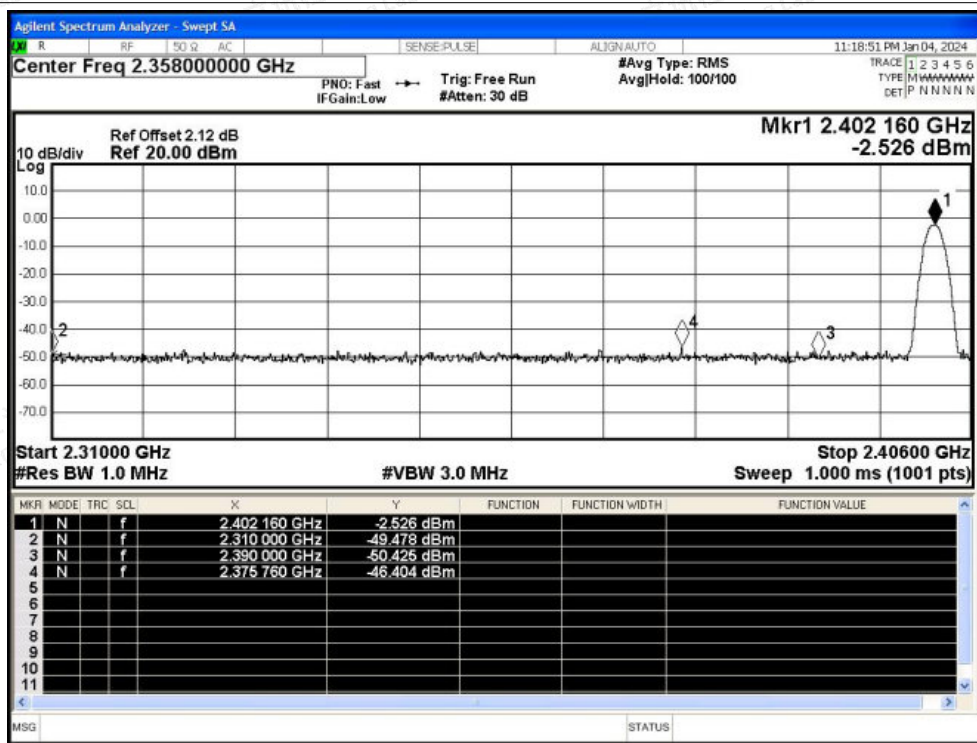


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

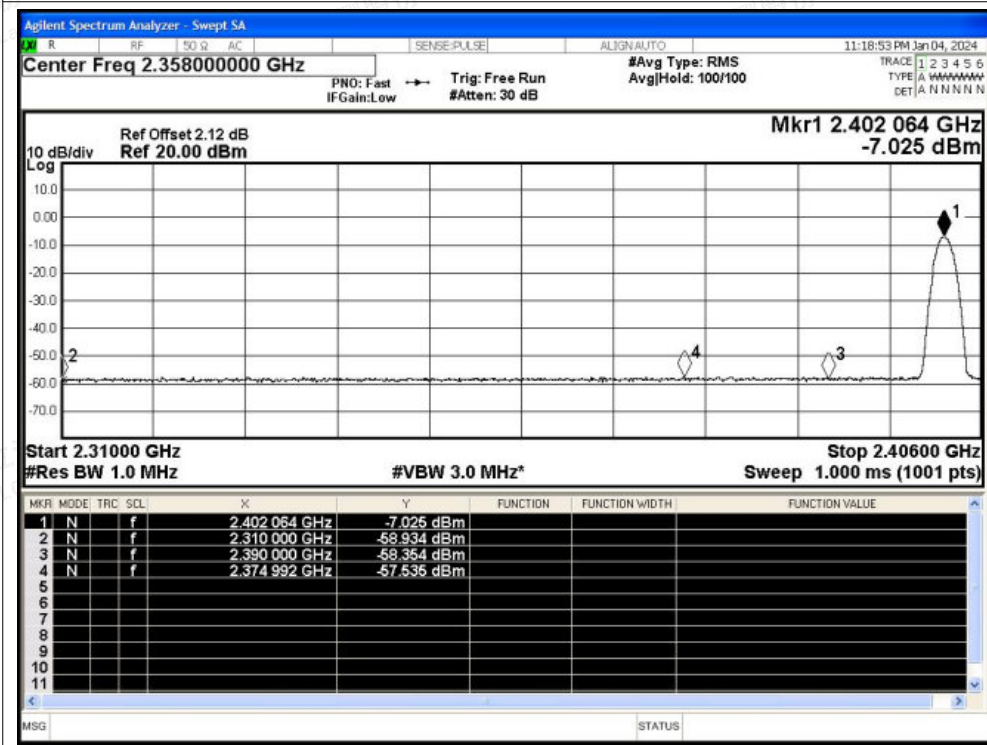




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

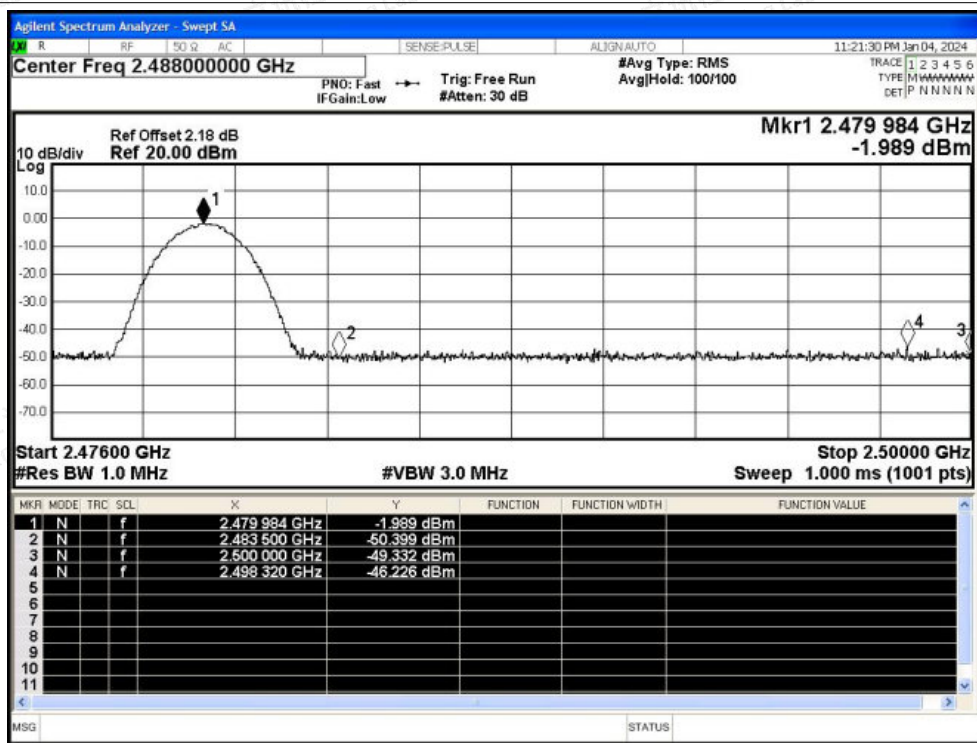


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

