



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: book case

Test Model: OR-01

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Ling Zhu





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.026	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.953	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.015	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.314	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.282	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.286	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.296	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.3	N/A	Pass

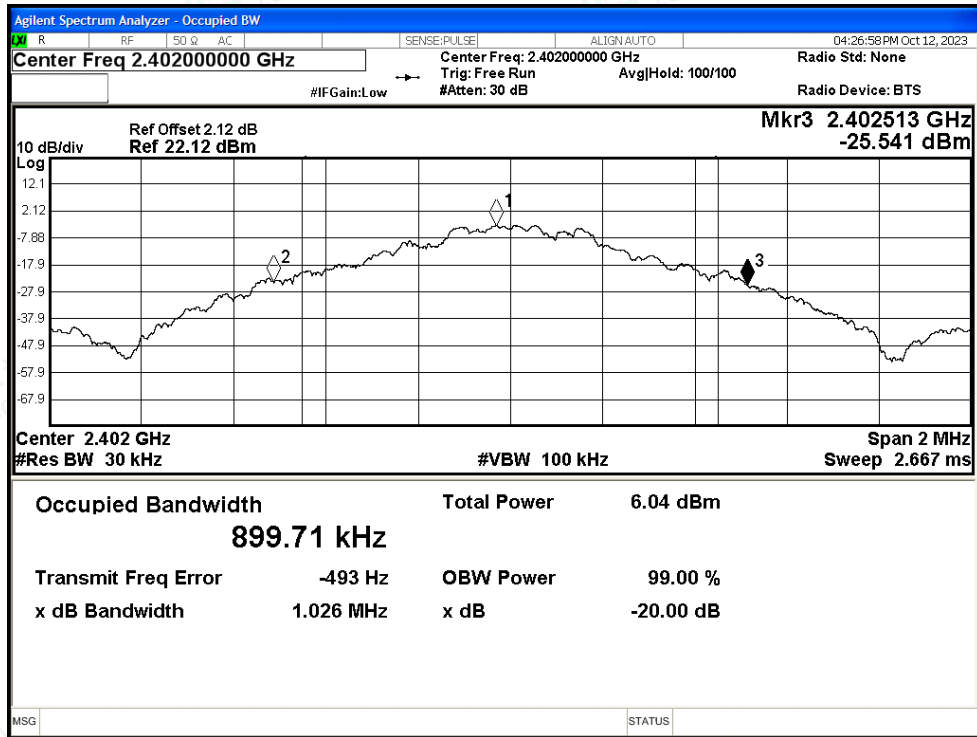


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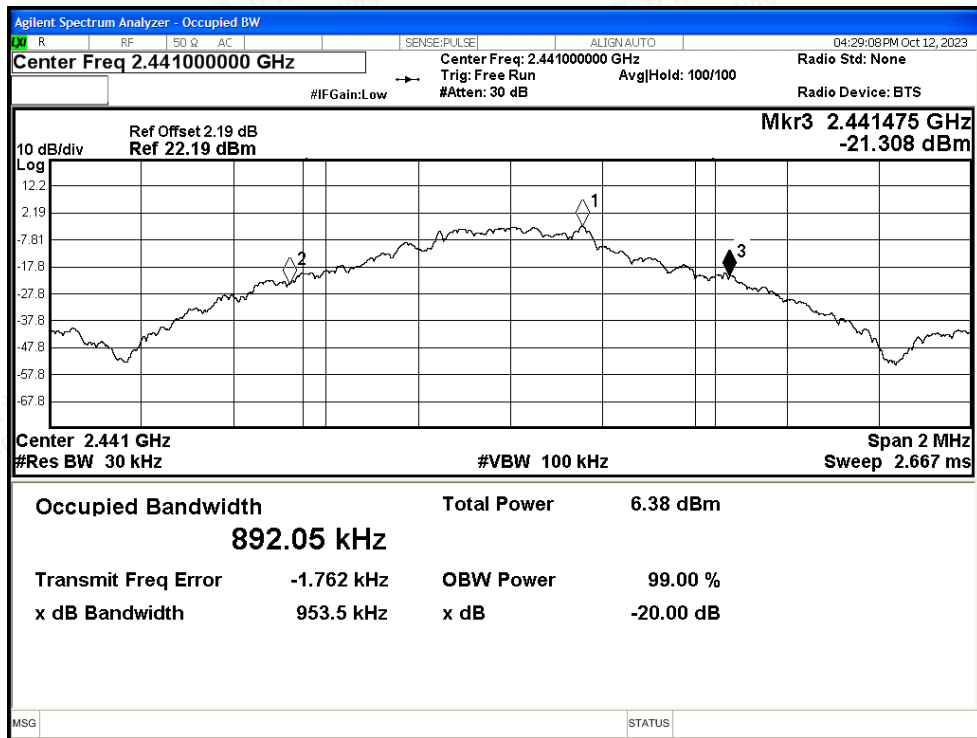


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

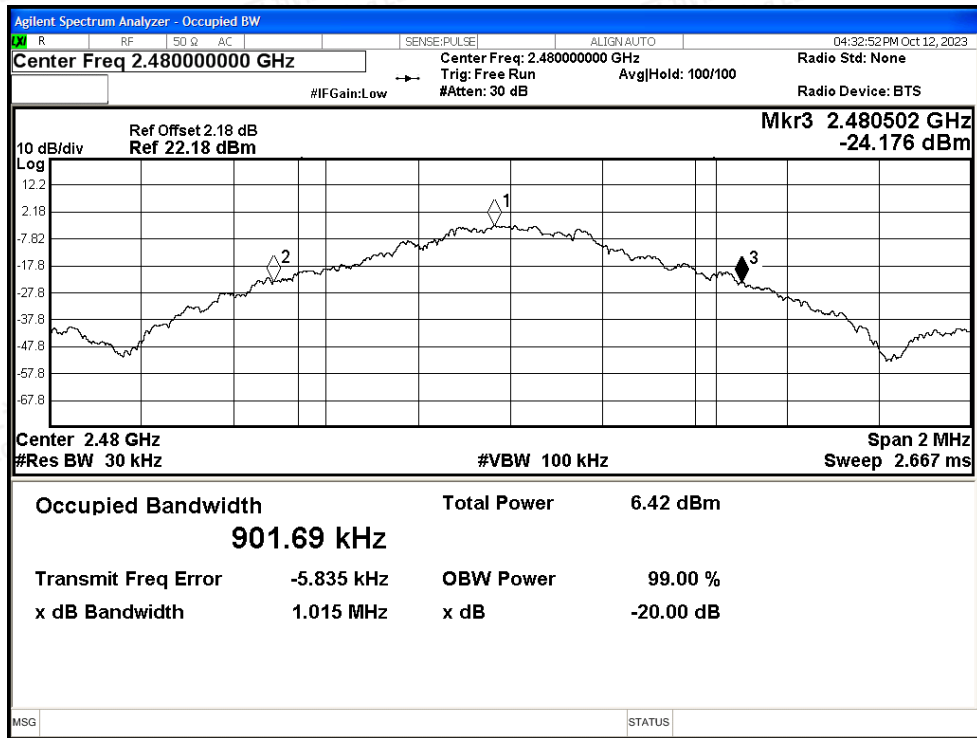


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

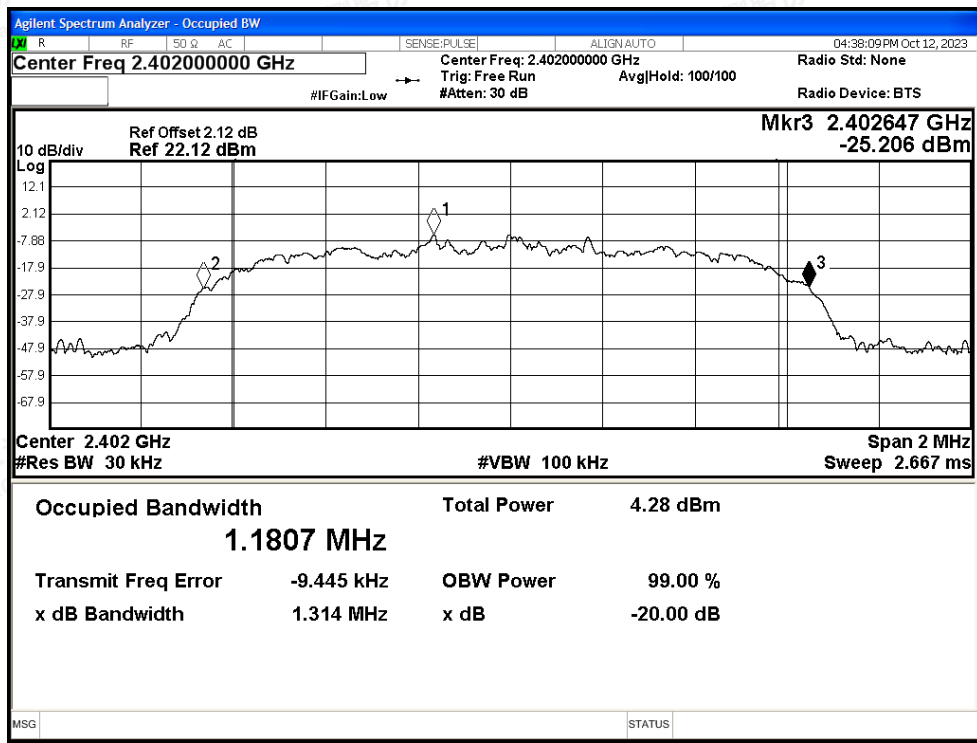




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

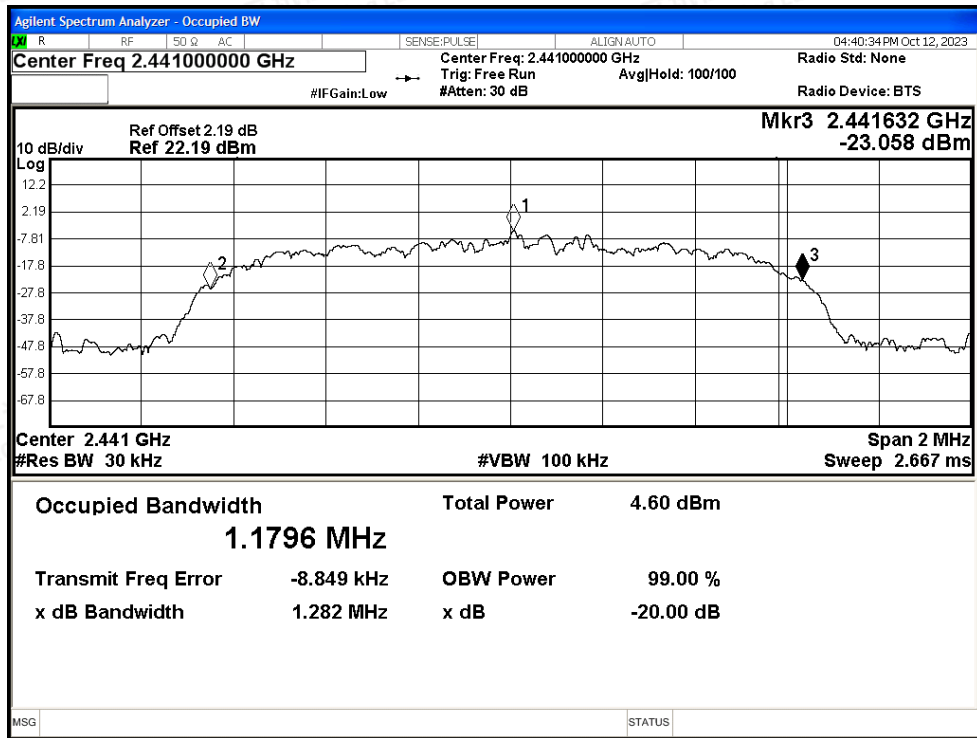


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

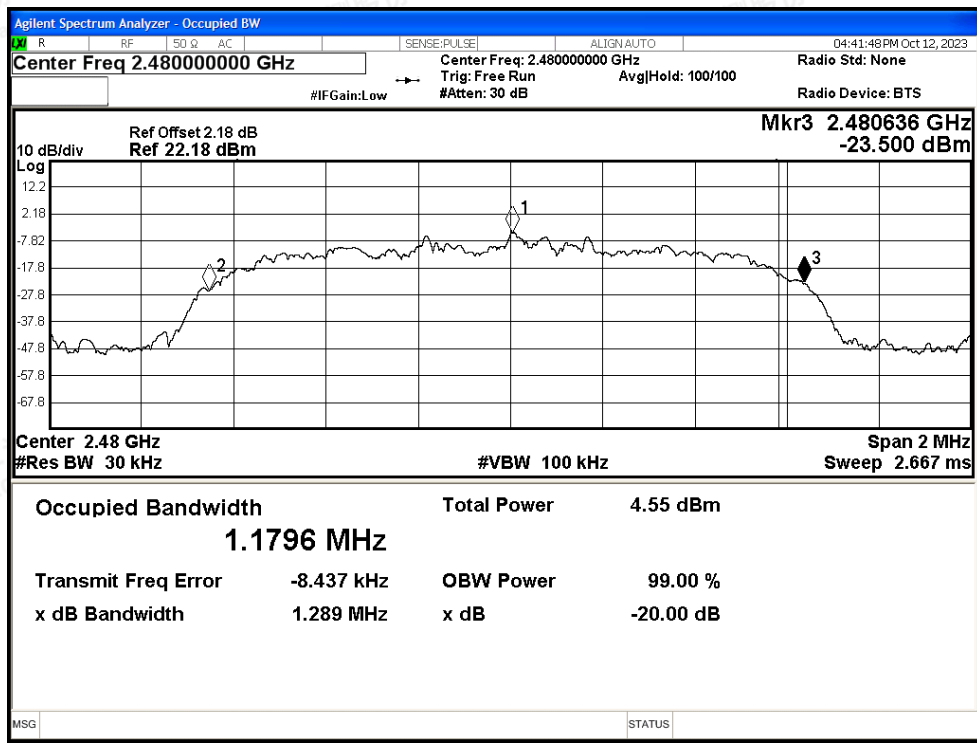




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

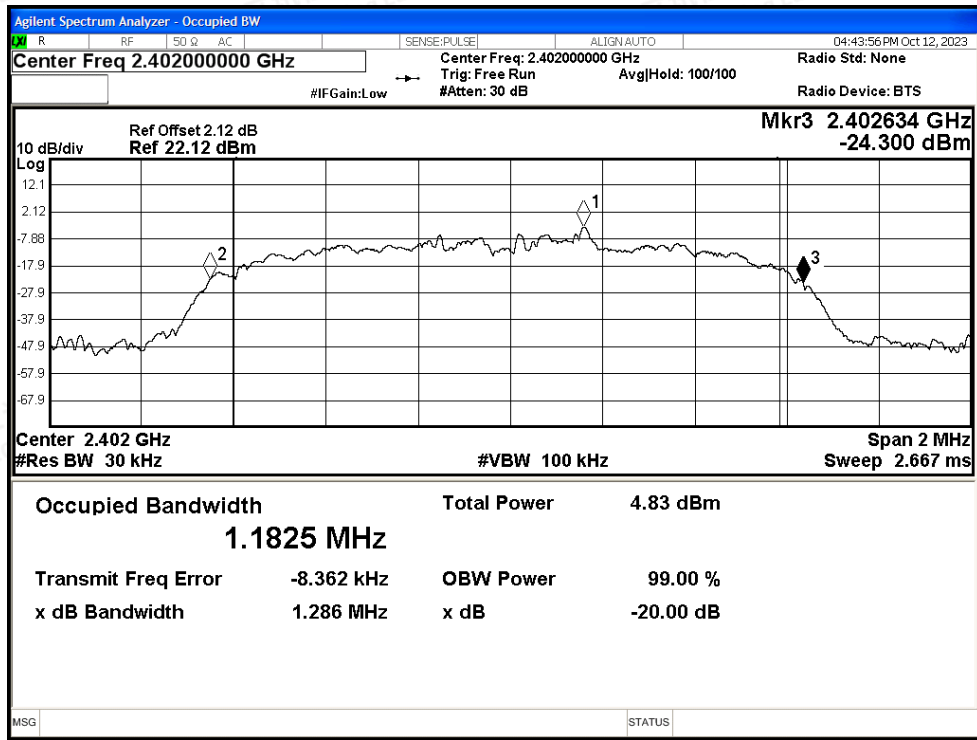


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

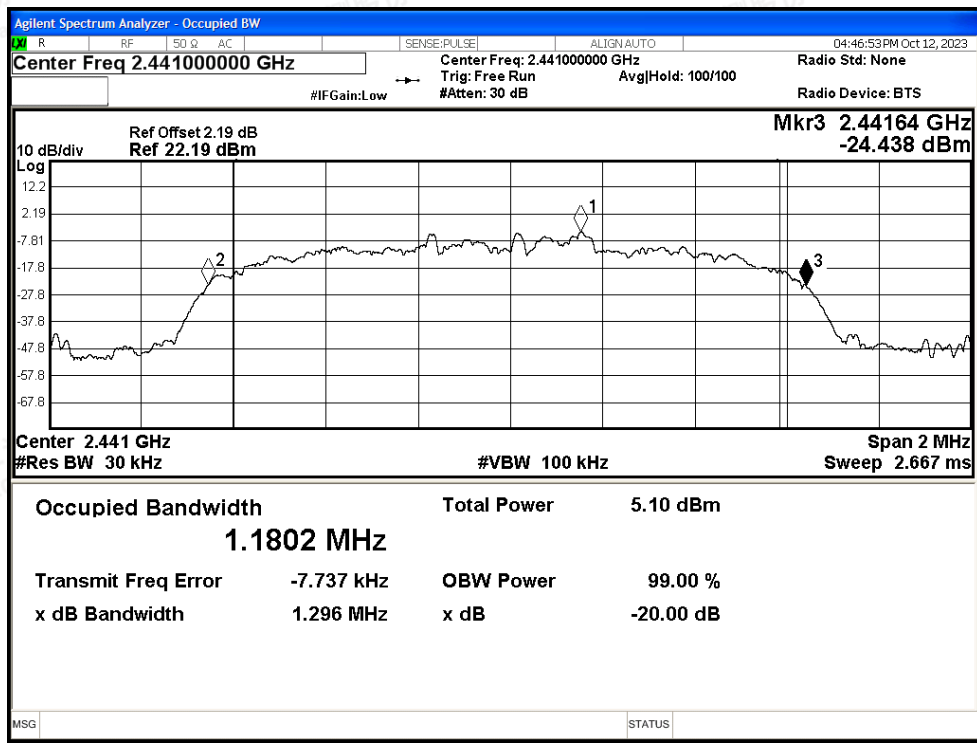




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

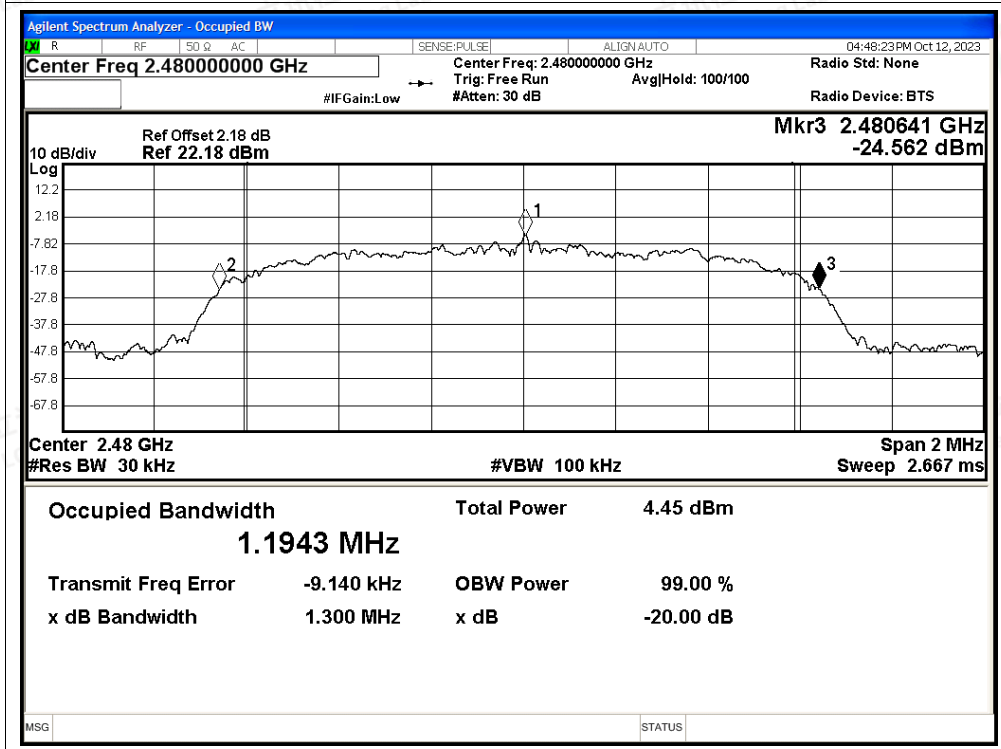


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.27	21	Pass
NVNT	1-DH5	2441	Ant1	-0.13	21	Pass
NVNT	1-DH5	2480	Ant1	0.16	21	Pass
NVNT	2-DH5	2402	Ant1	-0.33	21	Pass
NVNT	2-DH5	2441	Ant1	-0.01	21	Pass
NVNT	2-DH5	2480	Ant1	-0.06	21	Pass
NVNT	3-DH5	2402	Ant1	0.23	21	Pass
NVNT	3-DH5	2441	Ant1	0.41	21	Pass
NVNT	3-DH5	2480	Ant1	0.41	21	Pass

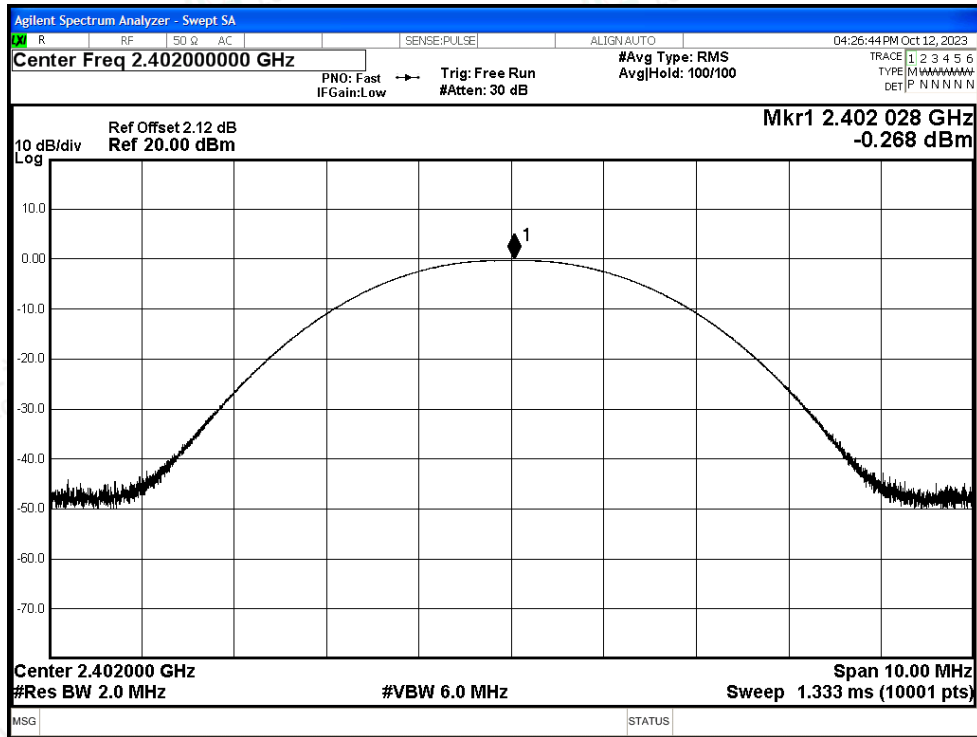


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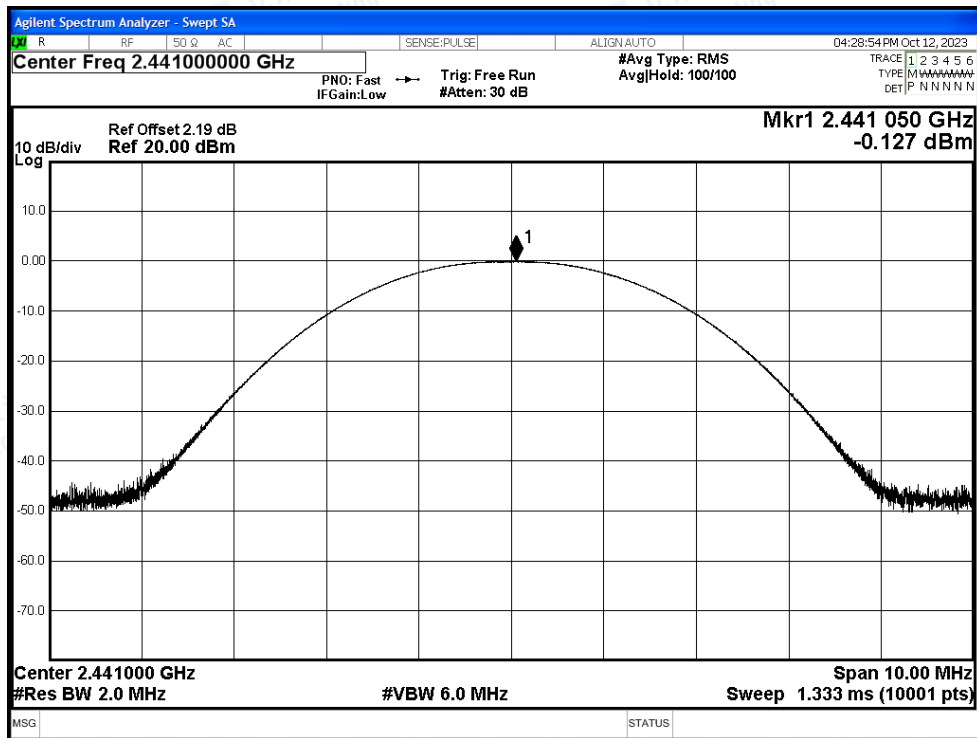


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

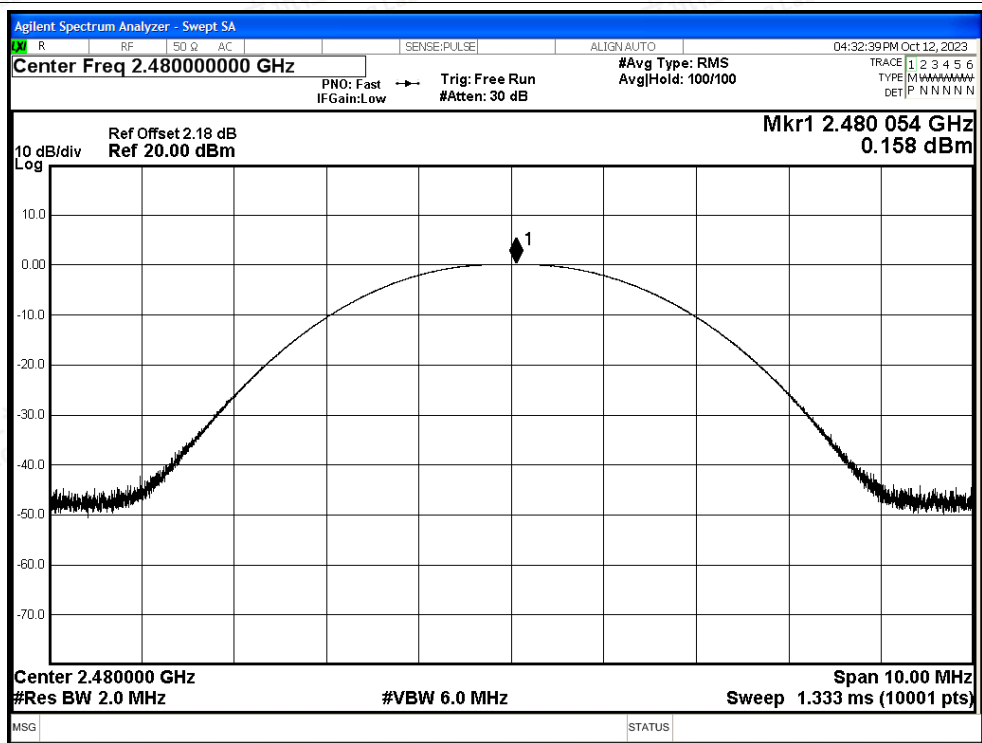


Power NVNT 1-DH5 2441MHz Ant1

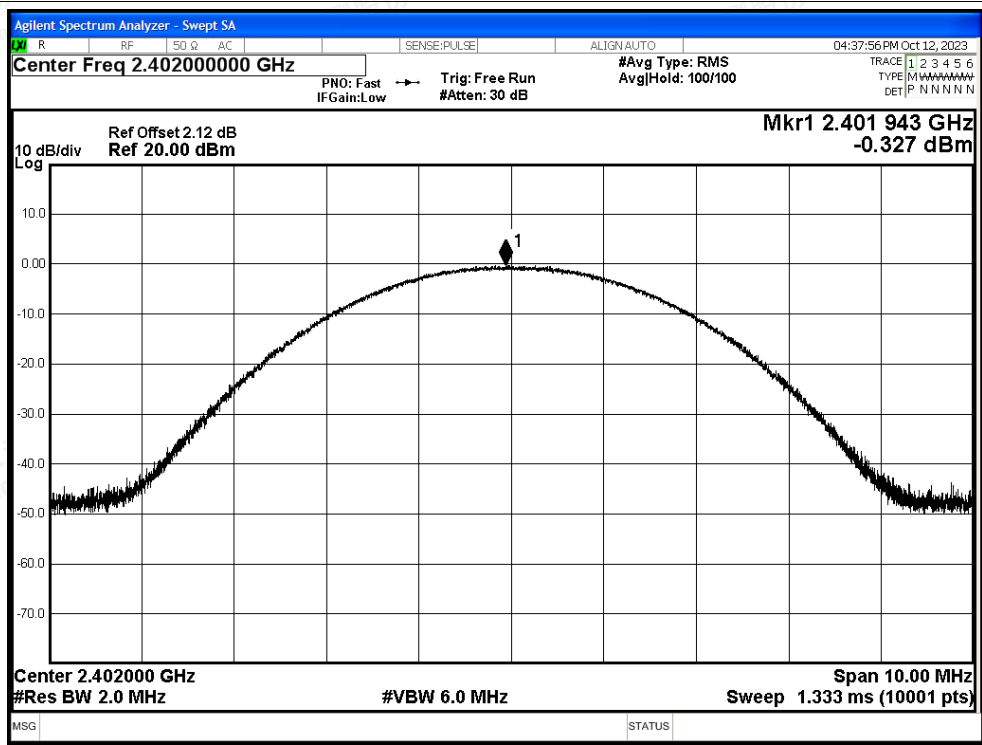




Power NVNT 1-DH5 2480MHz Ant1

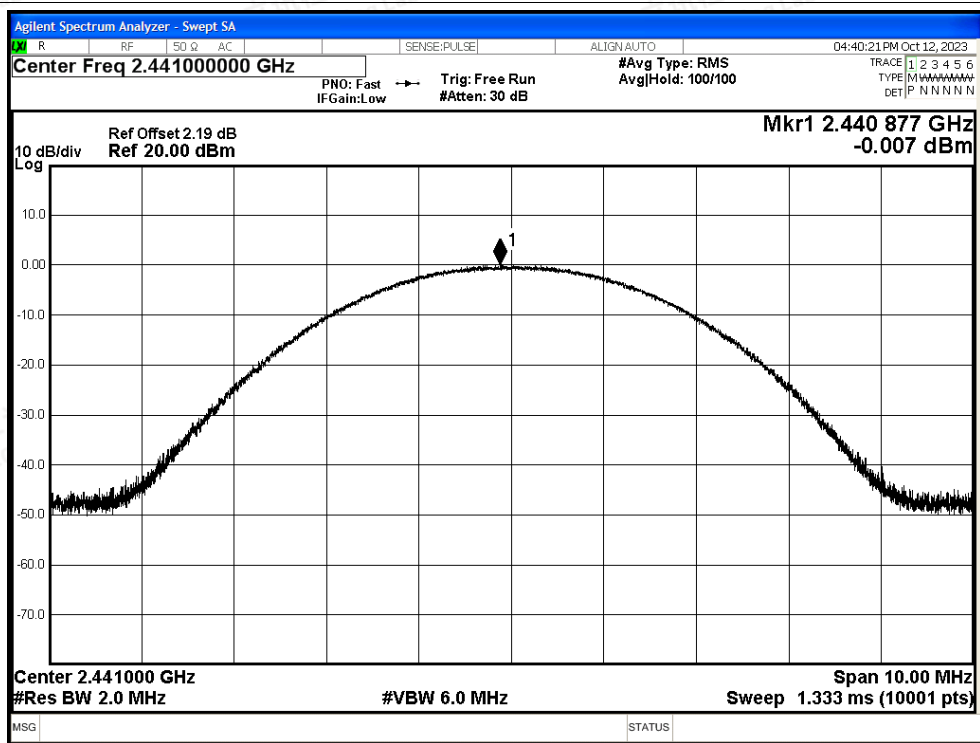


Power NVNT 2-DH5 2402MHz Ant1

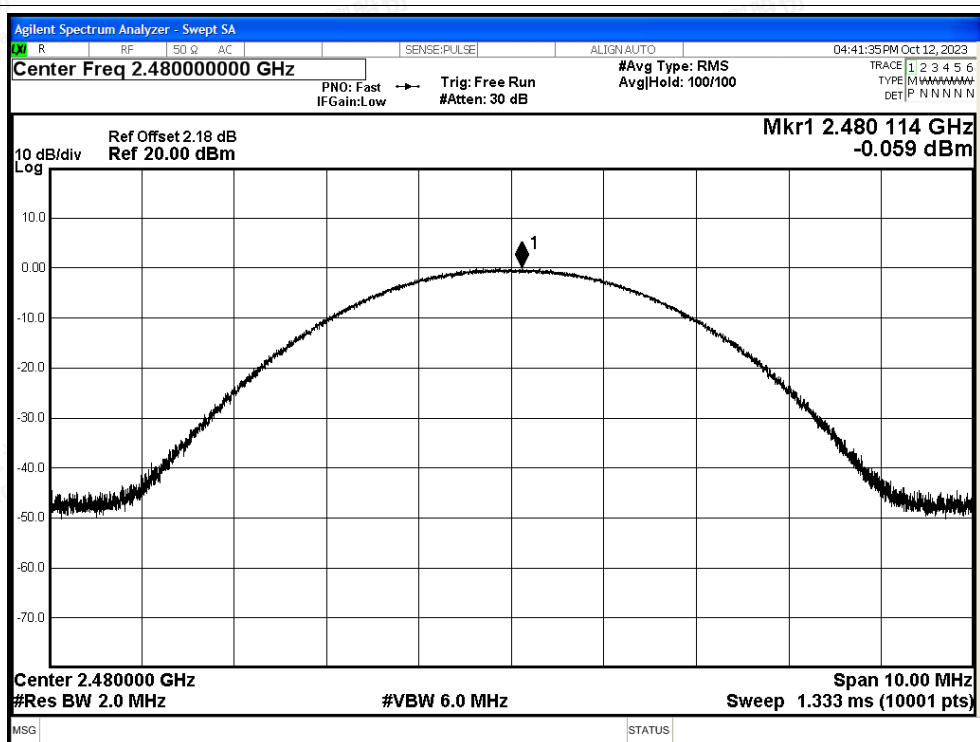




Power NVNT 2-DH5 2441MHz Ant1

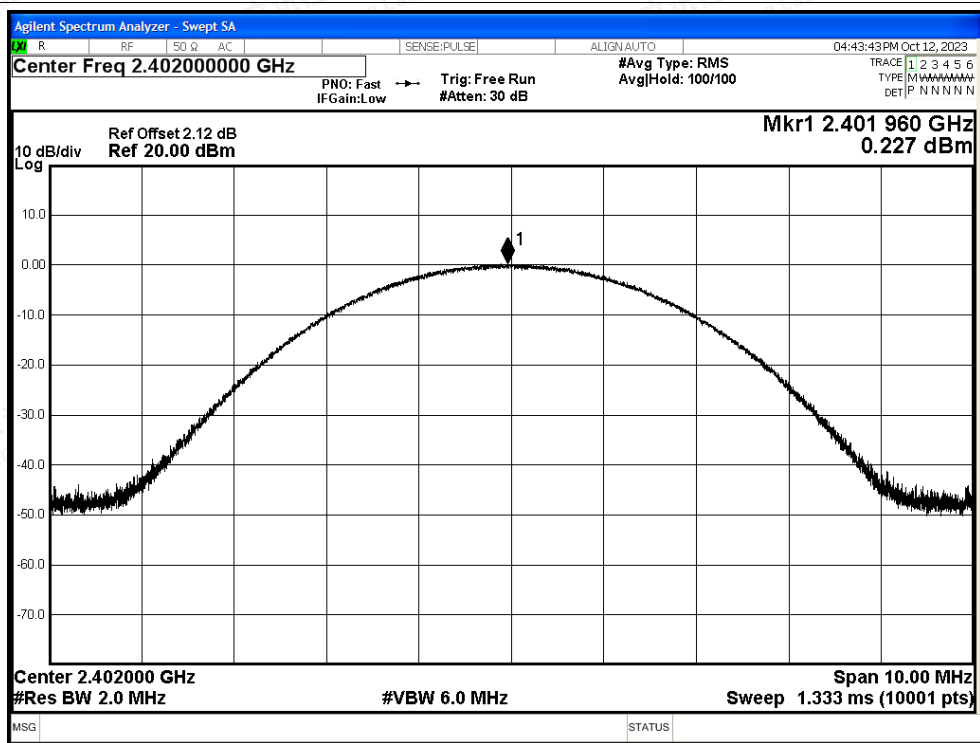


Power NVNT 2-DH5 2480MHz Ant1

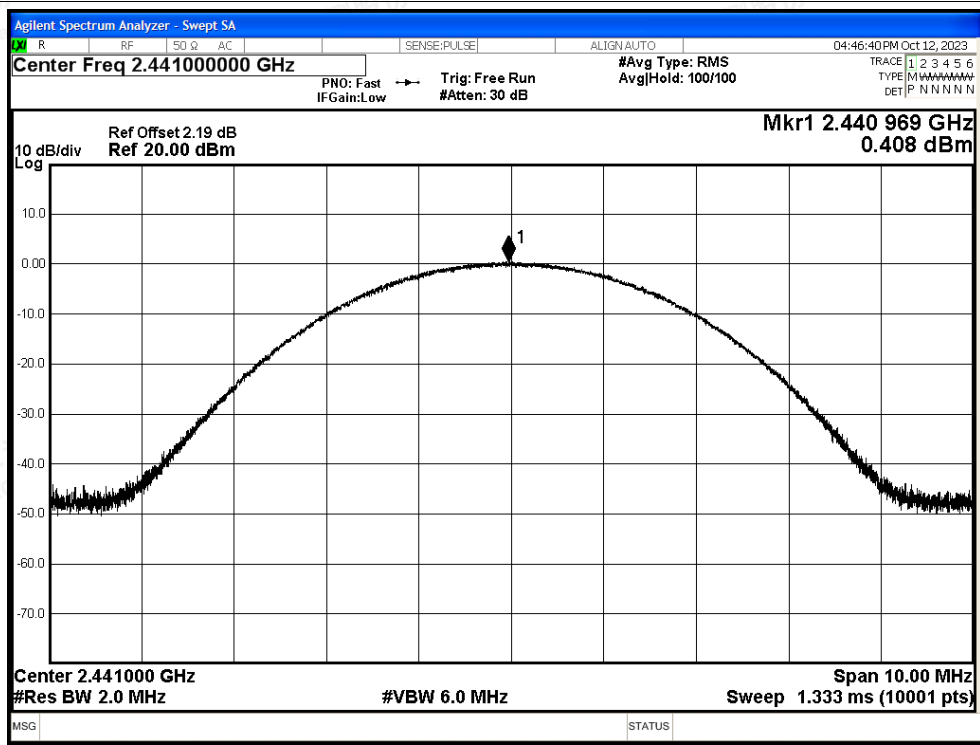




Power NVNT 3-DH5 2402MHz Ant1

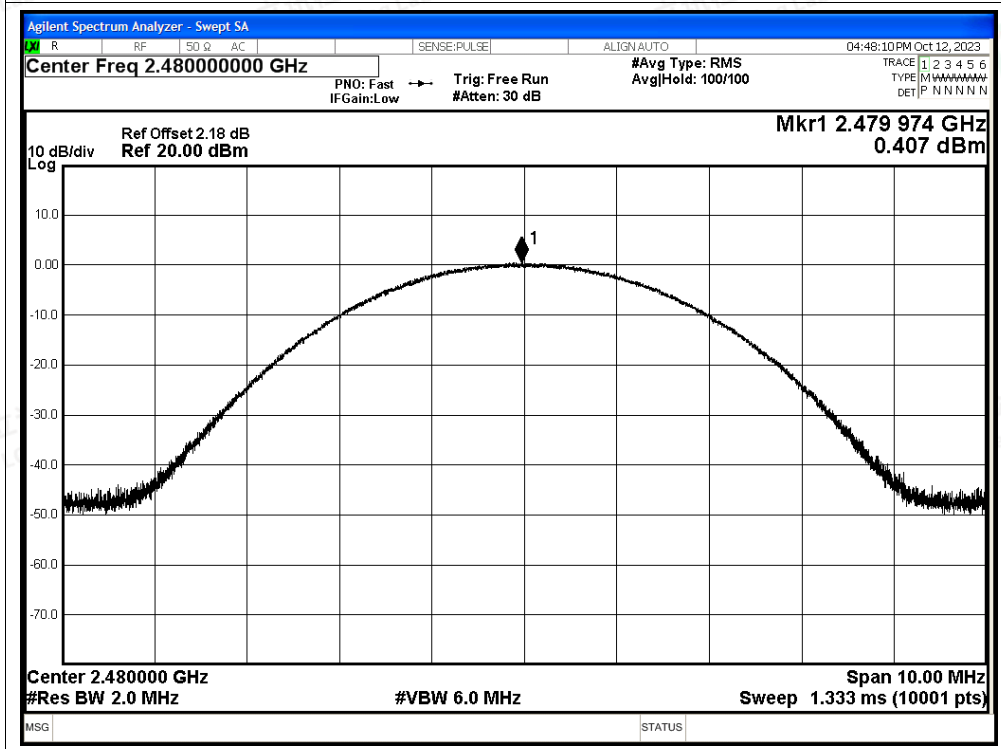


Power NVNT 3-DH5 2441MHz Ant1





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	2401.966	2403.006	1.04	0.684	Pass
NVNT	2-DH5	Ant1	2402.156	2403.154	0.998	0.876	Pass
NVNT	3-DH5	Ant1	2402.148	2403.158	1.01	0.864	Pass

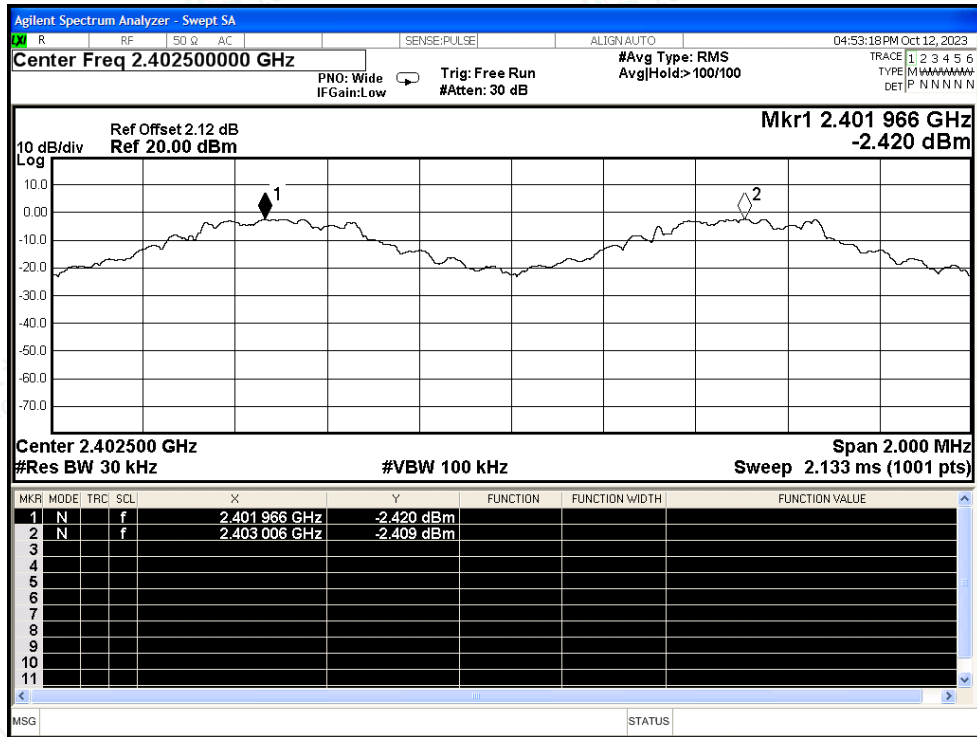


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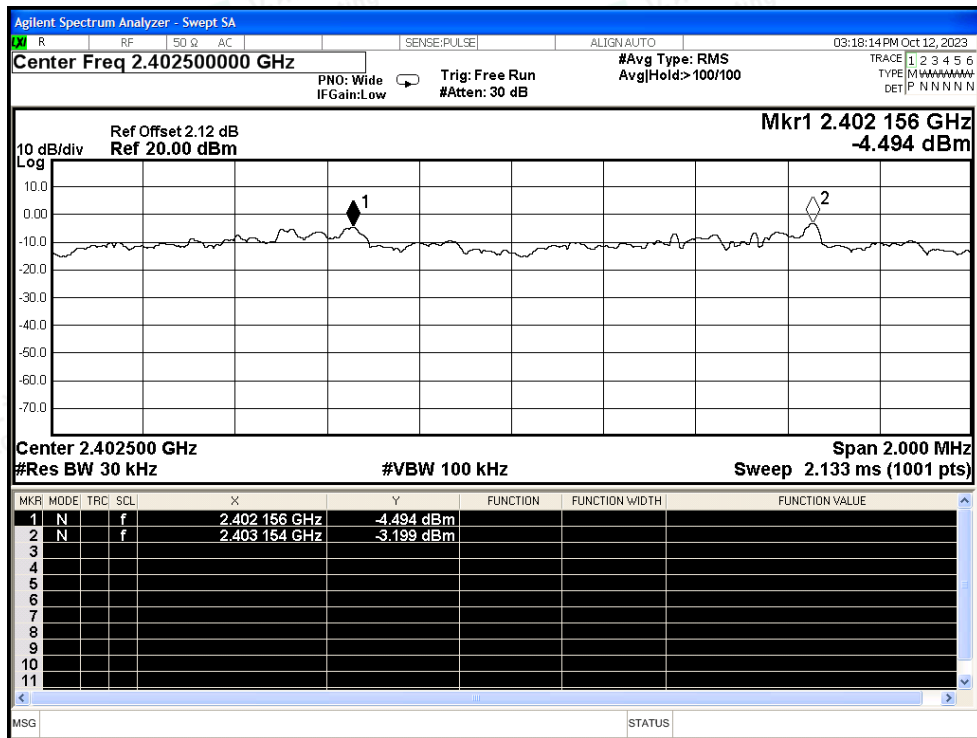


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

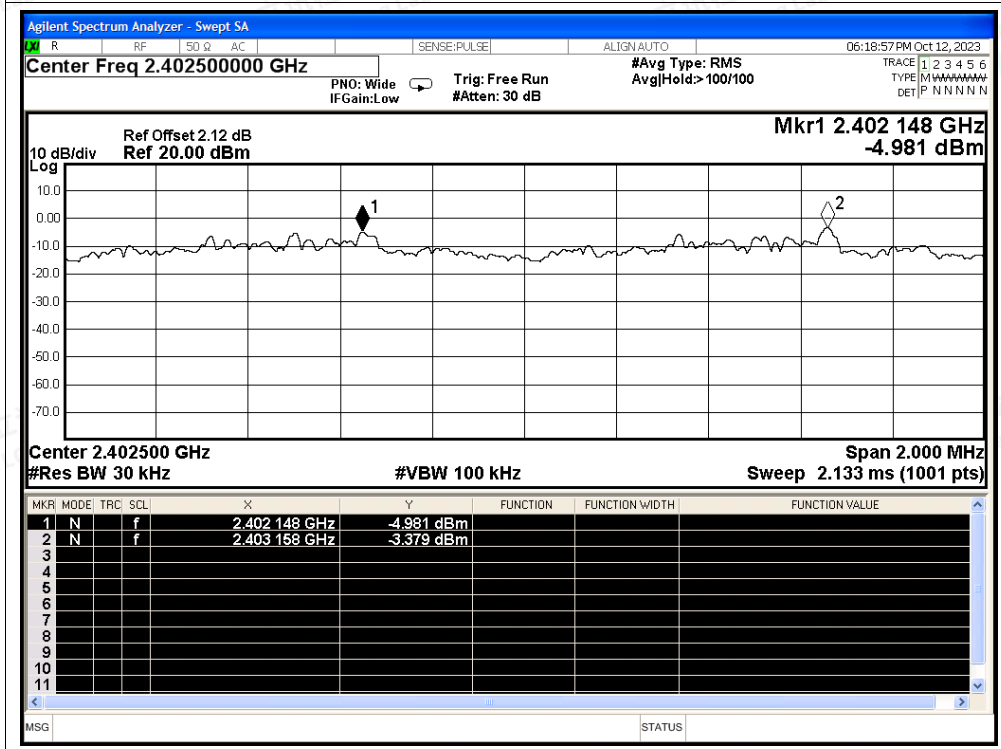


CFS NVNT 2-DH5 2402MHz Ant1





CFS NVNT 3-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	2.881	302.505	105	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	297.258	103	31600	400	Pass

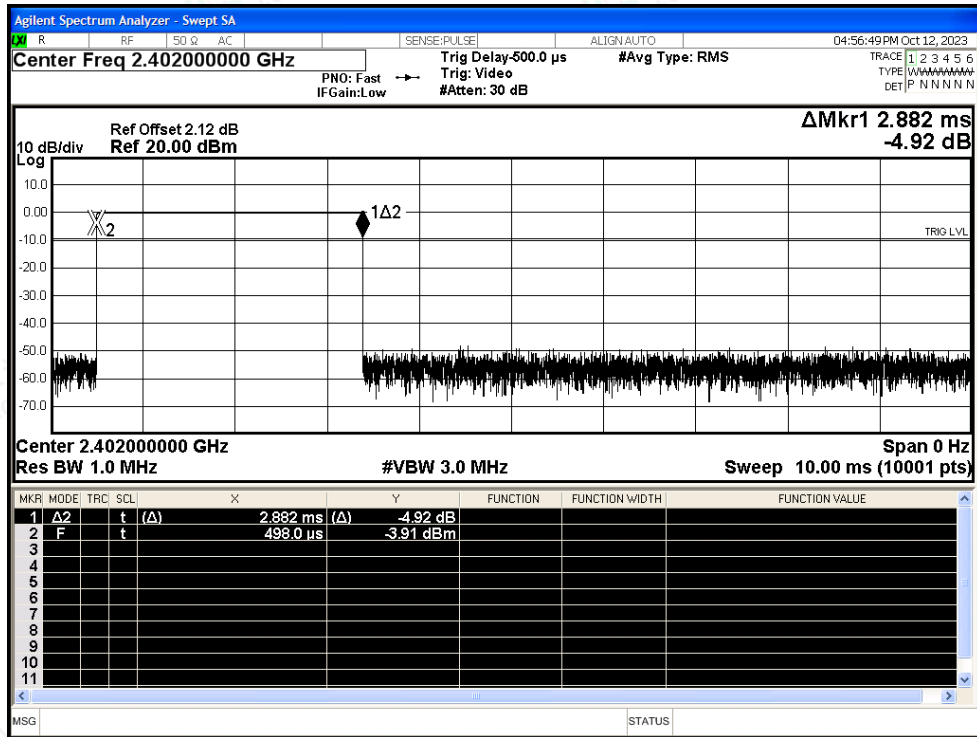


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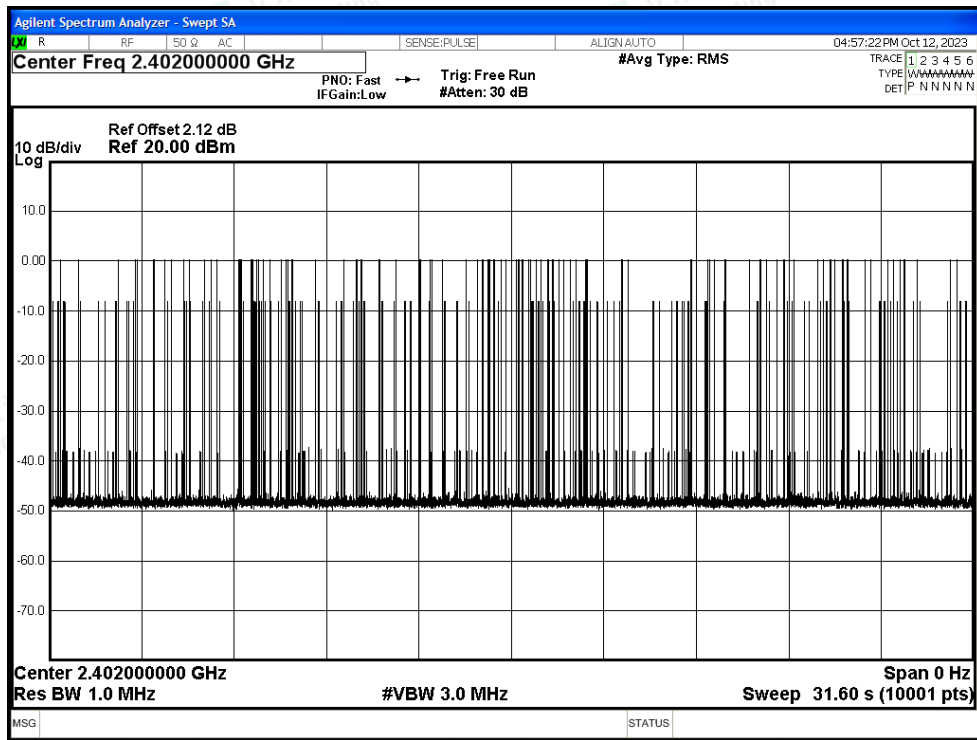


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

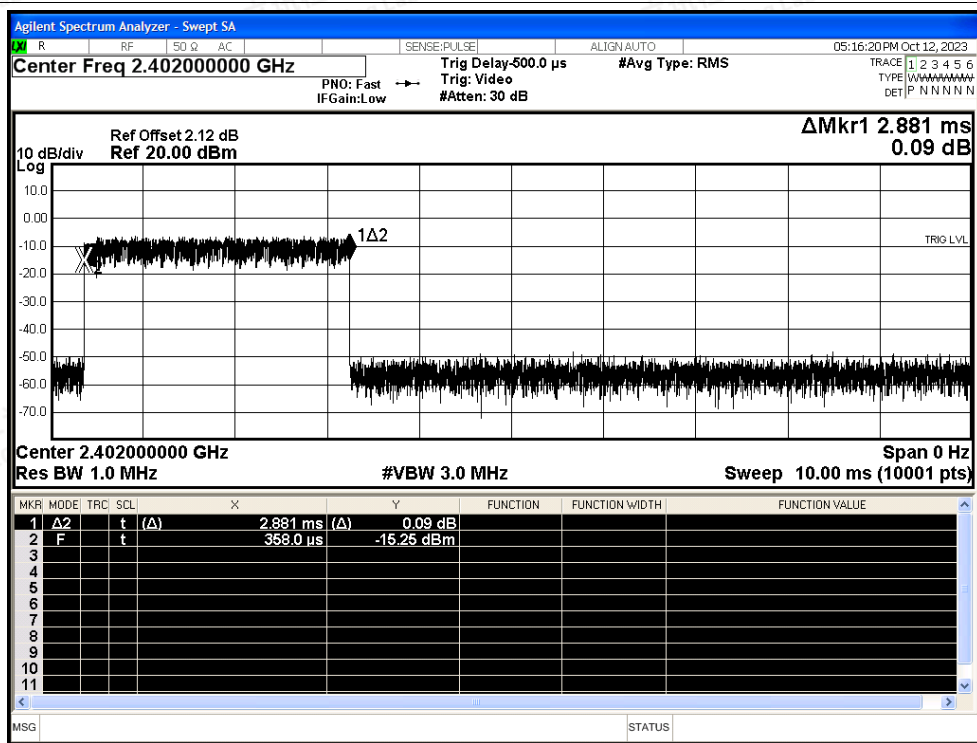


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

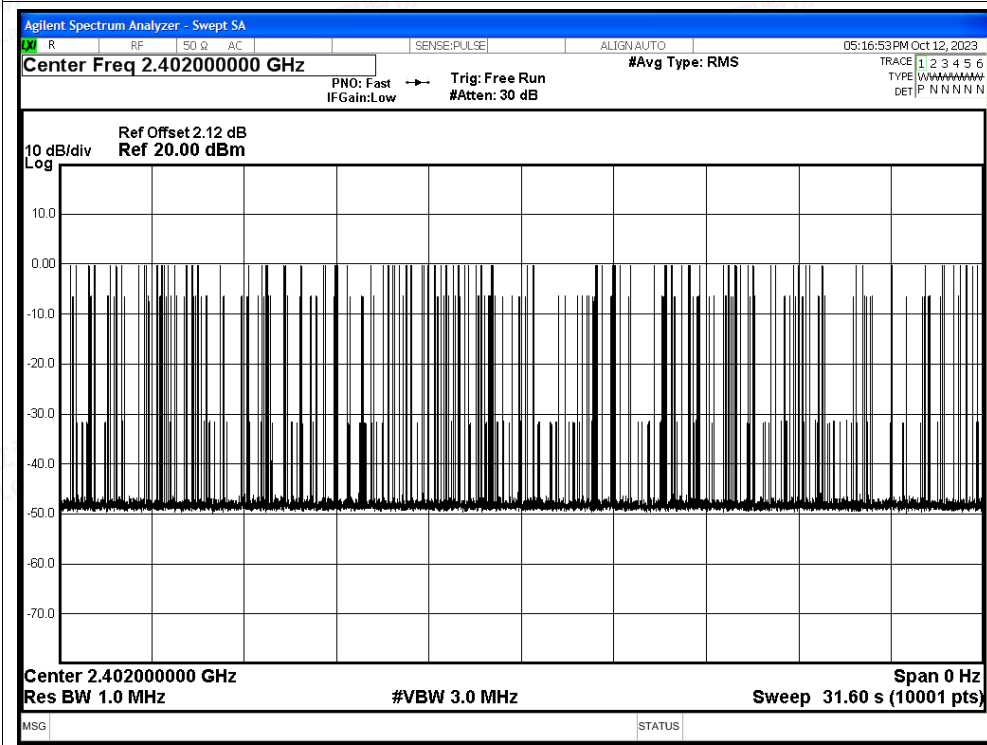




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

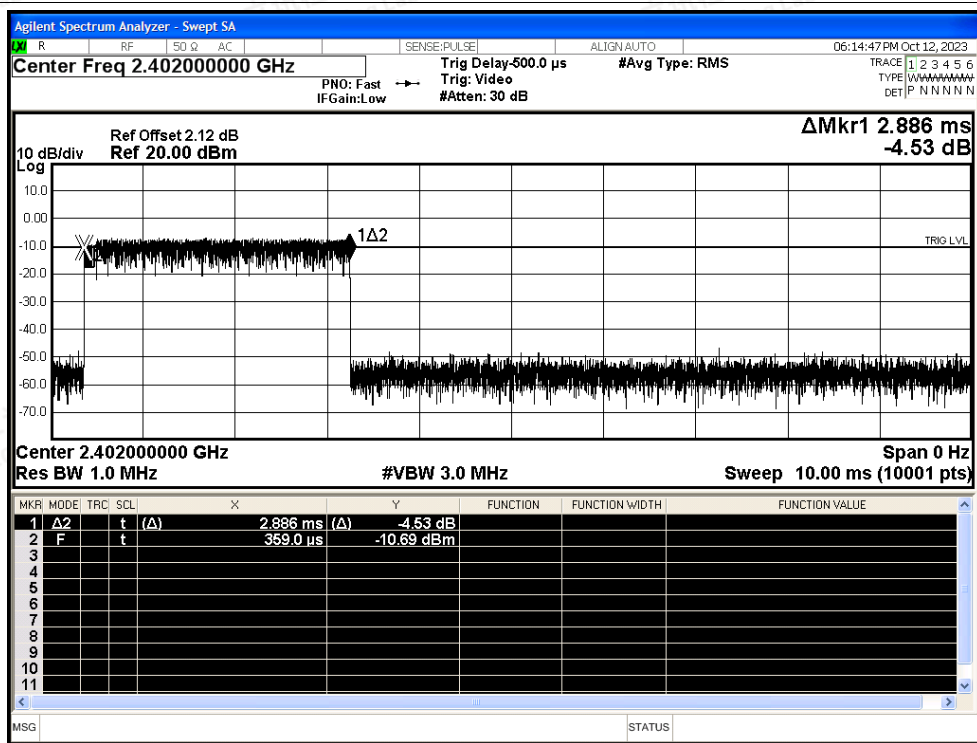


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

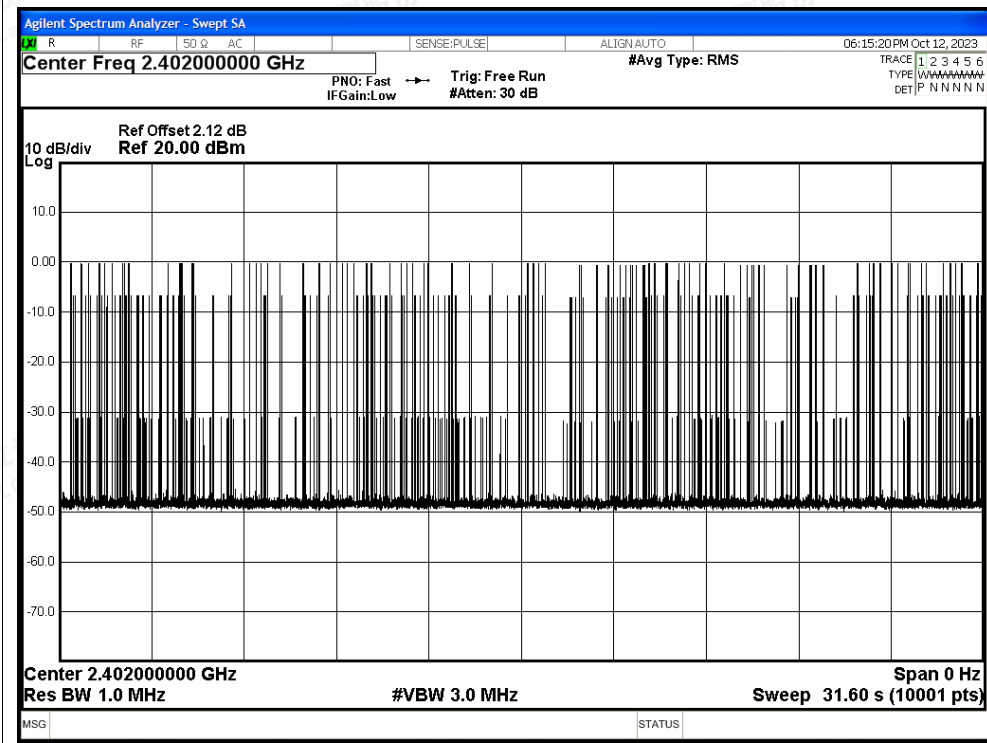




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

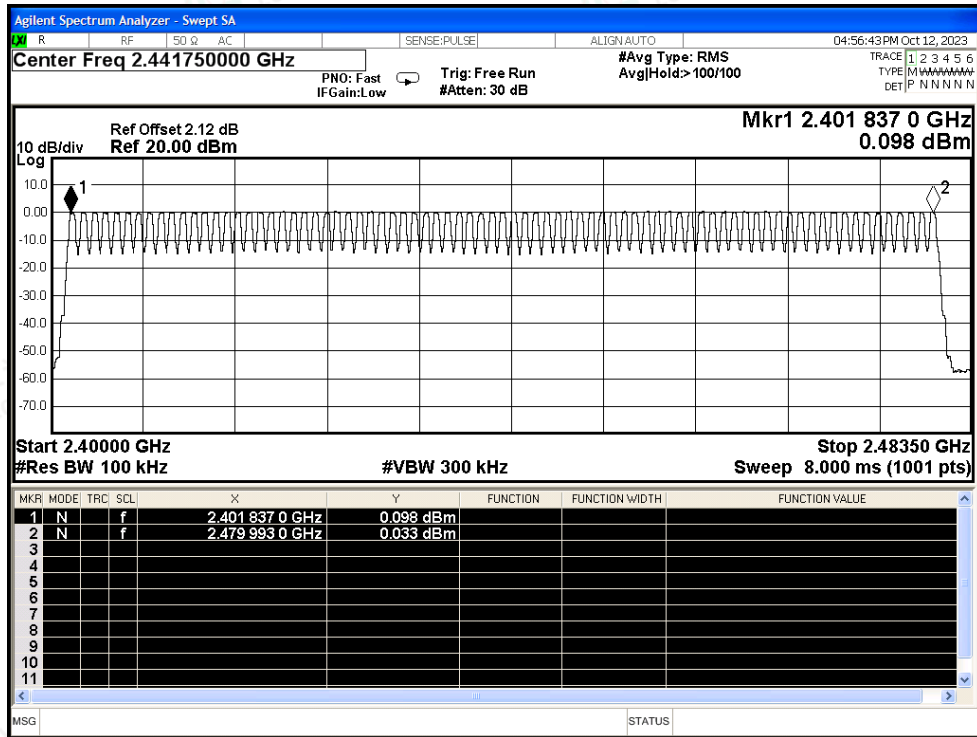
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



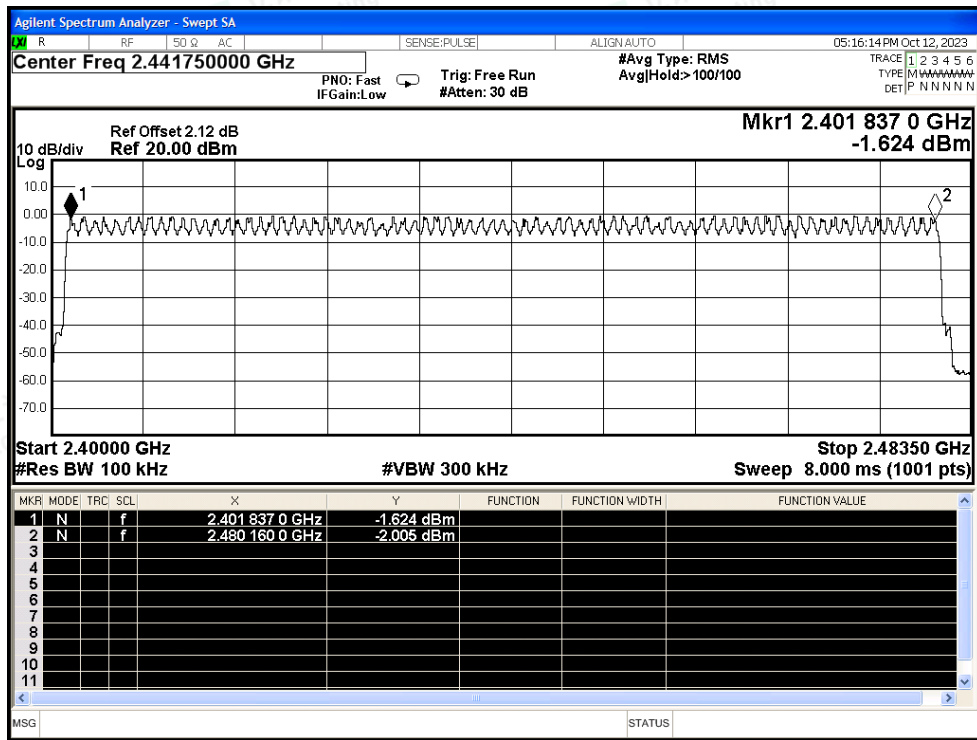


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

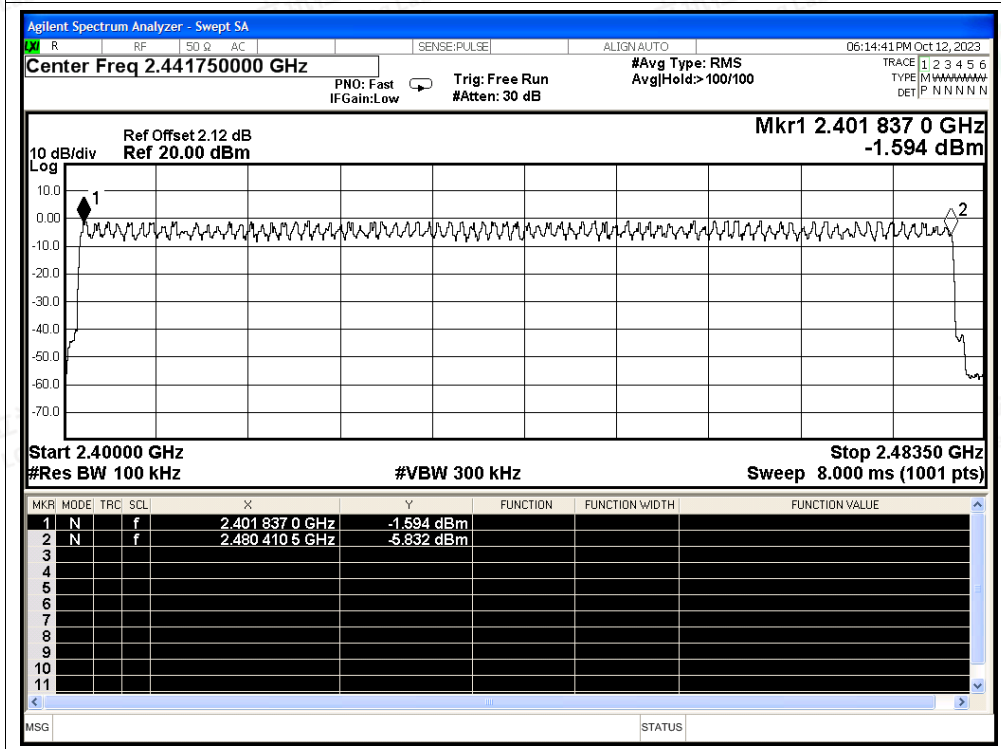


Hopping No. NVNT 2-DH5 2402MHz Ant1





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	-54.77	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.88	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.77	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.86	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.08	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.38	-20	Pass

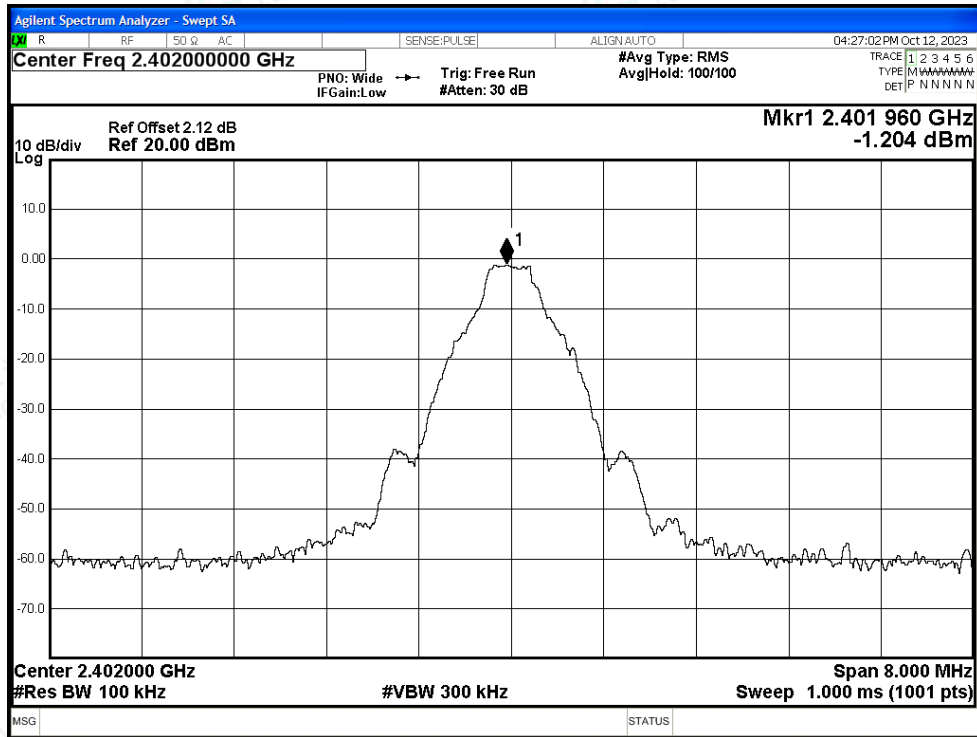


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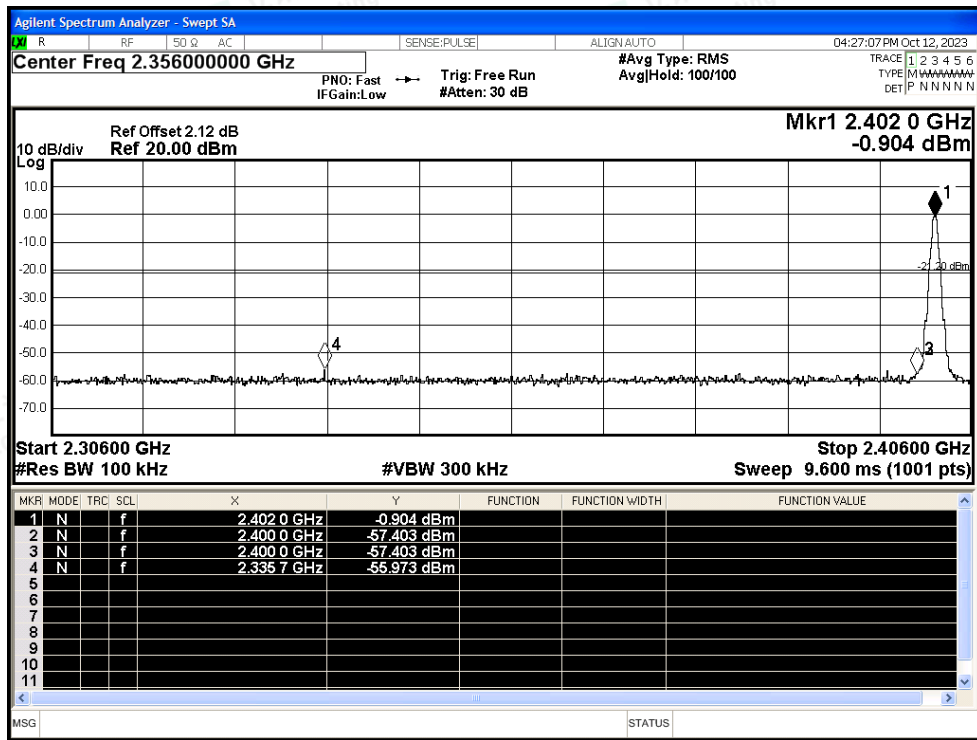


Test Graphs

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

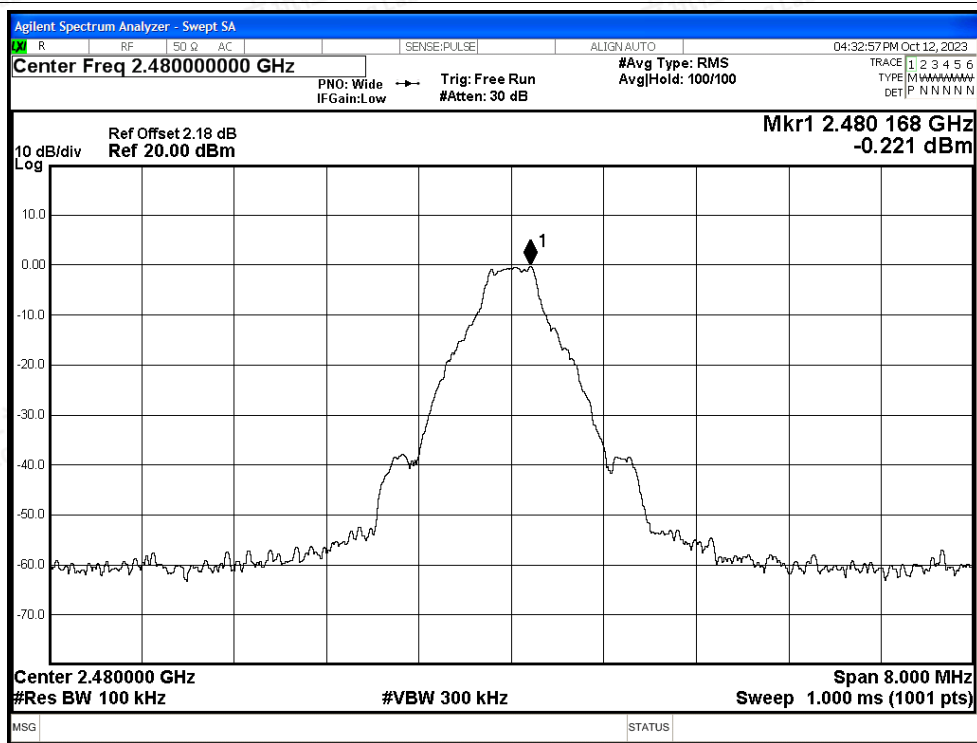


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

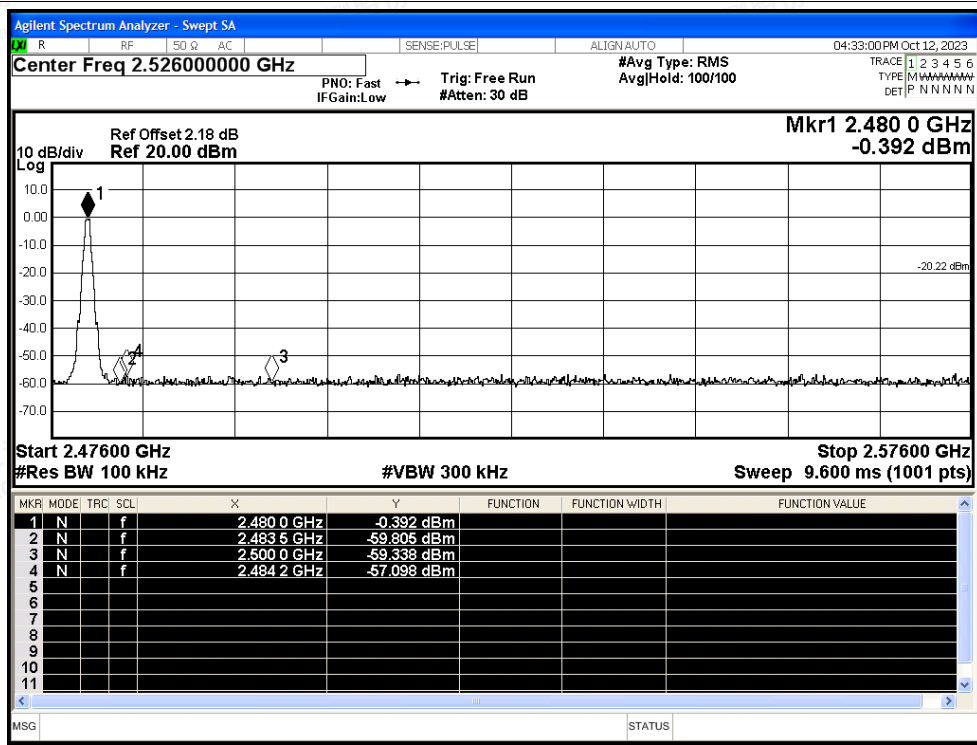




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

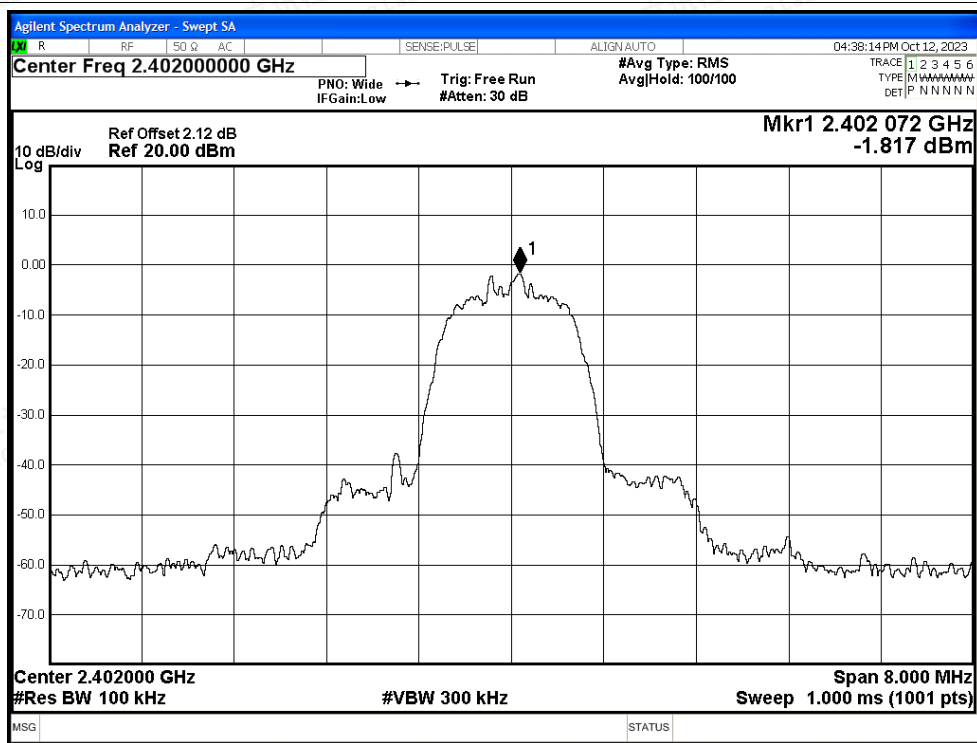


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

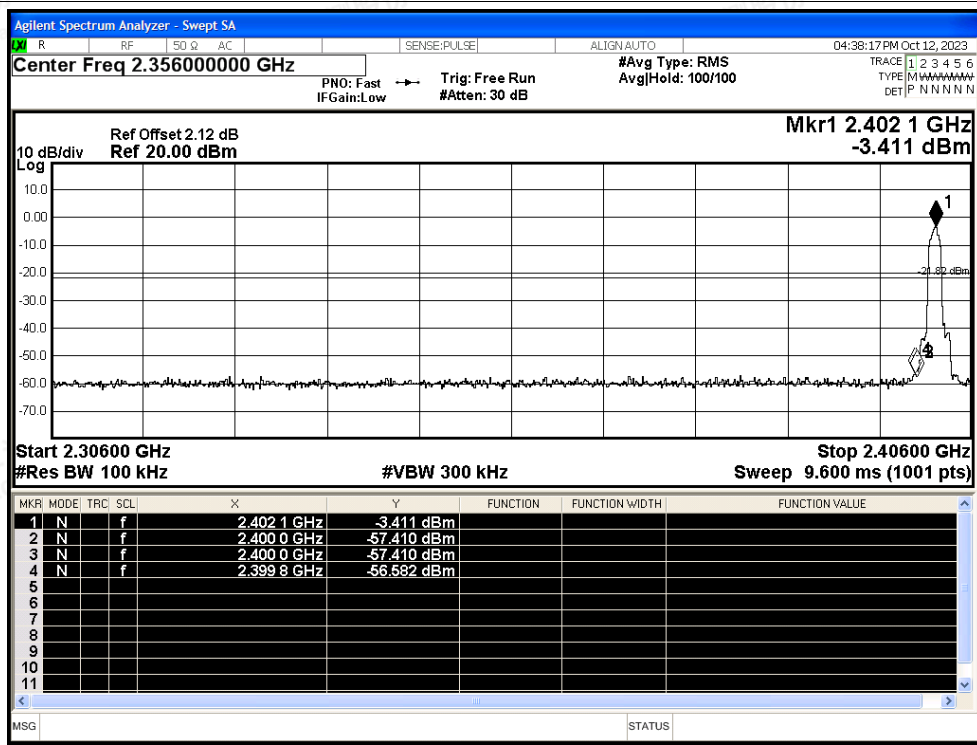




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

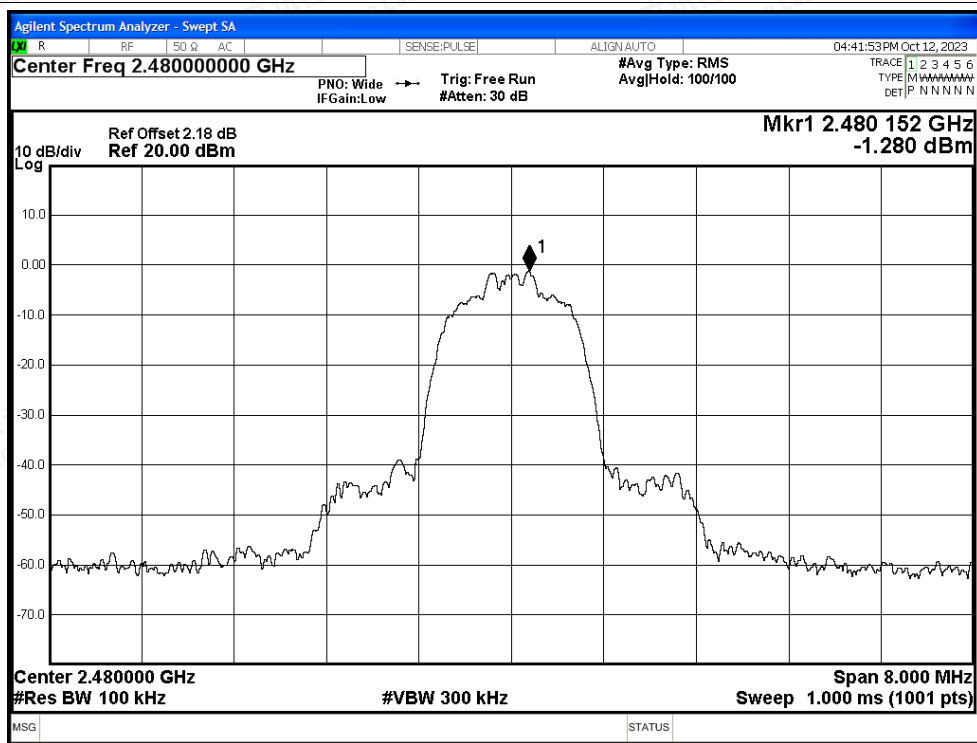


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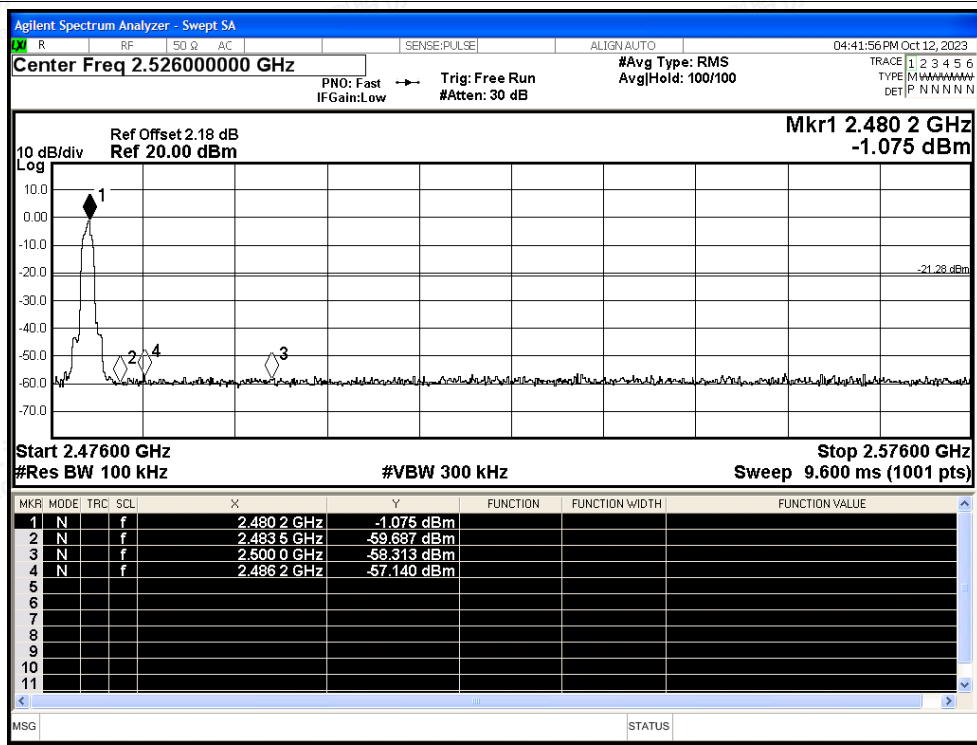




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

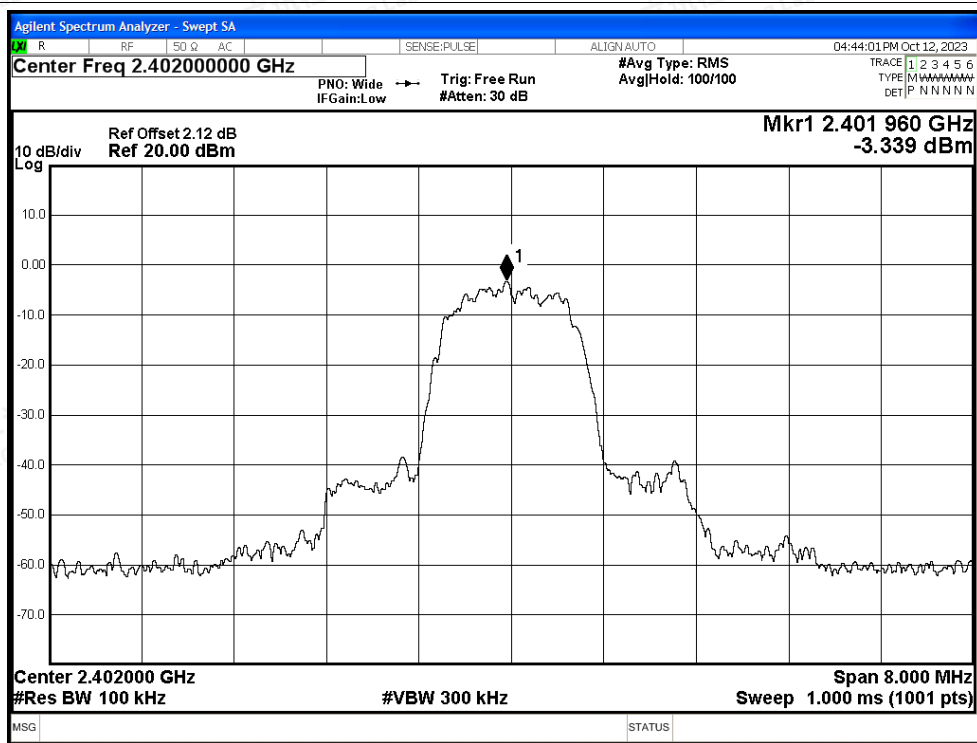


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

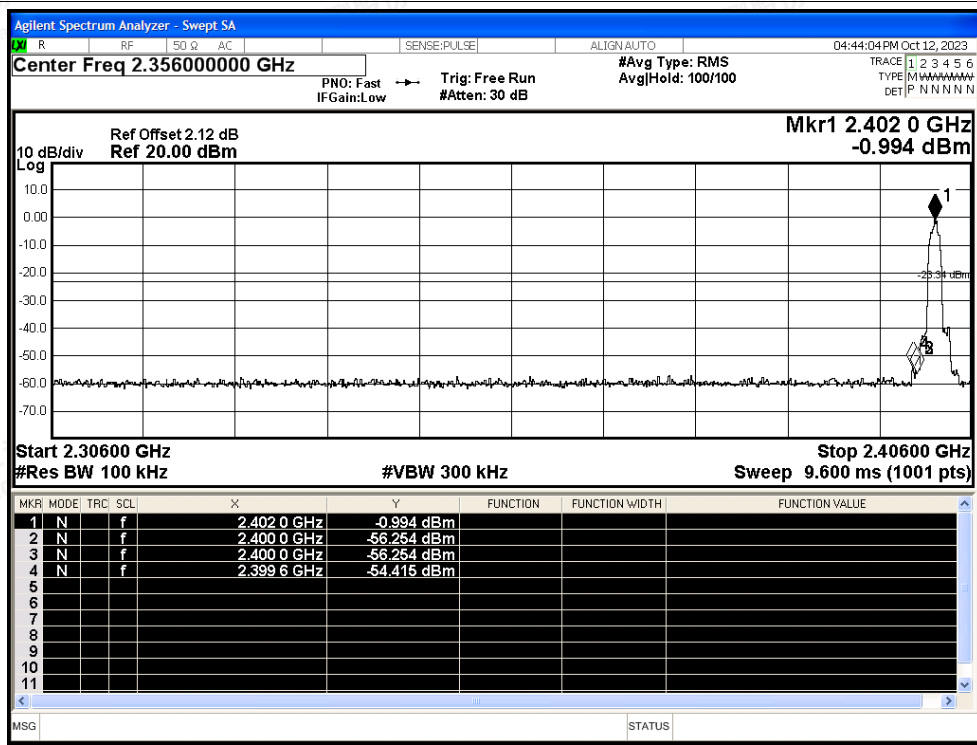




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

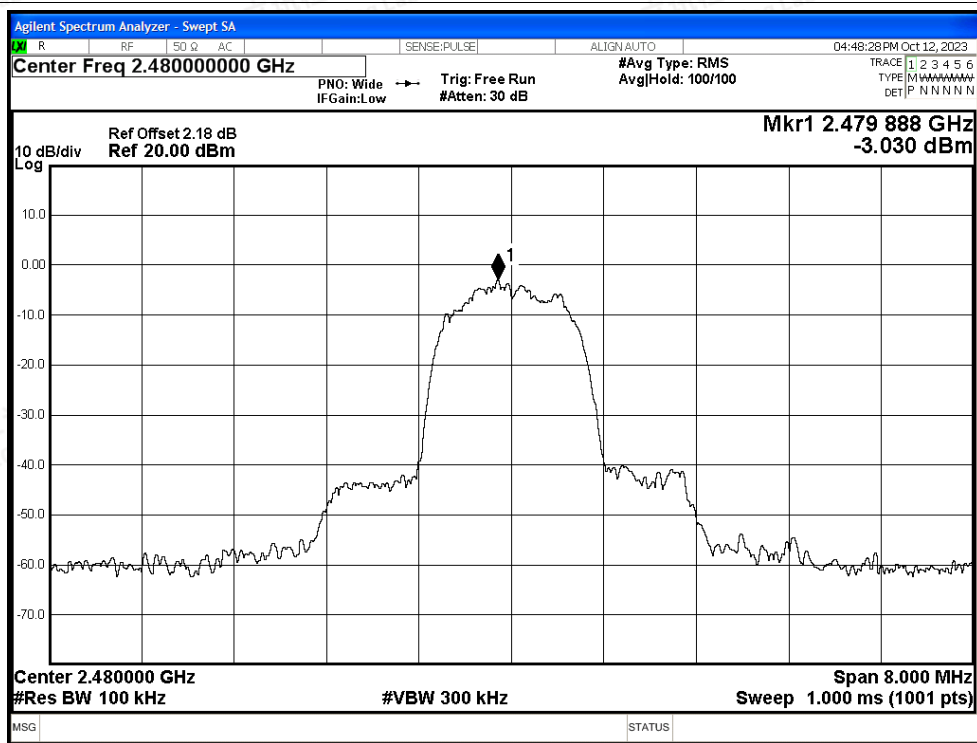


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

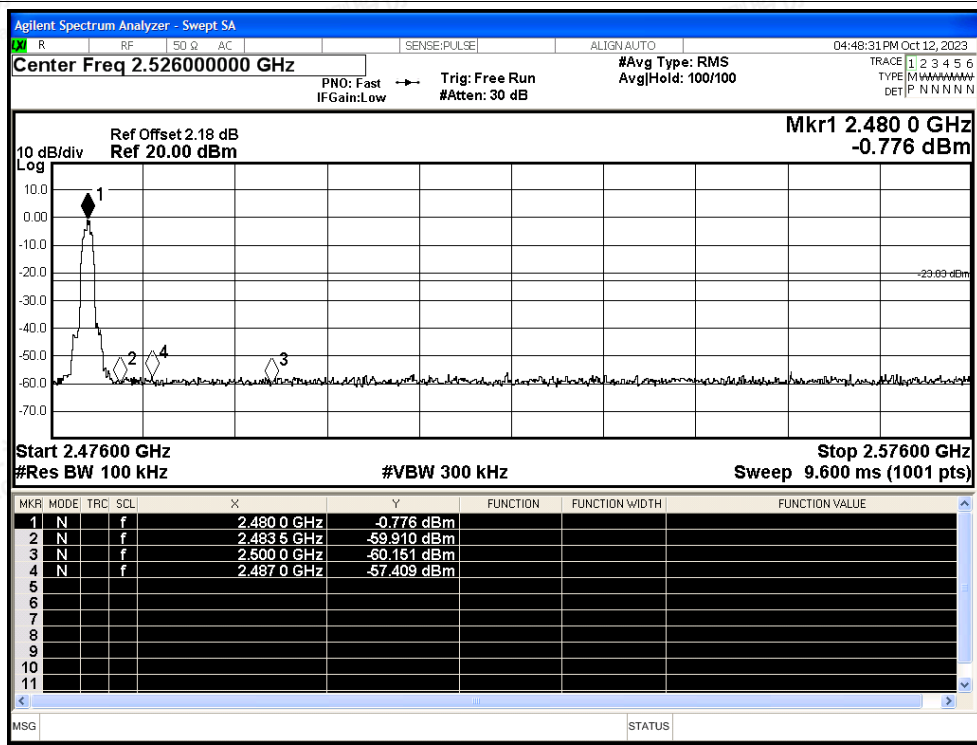




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-55.79	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-56.75	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.77	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.65	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.73	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.74	-20	Pass

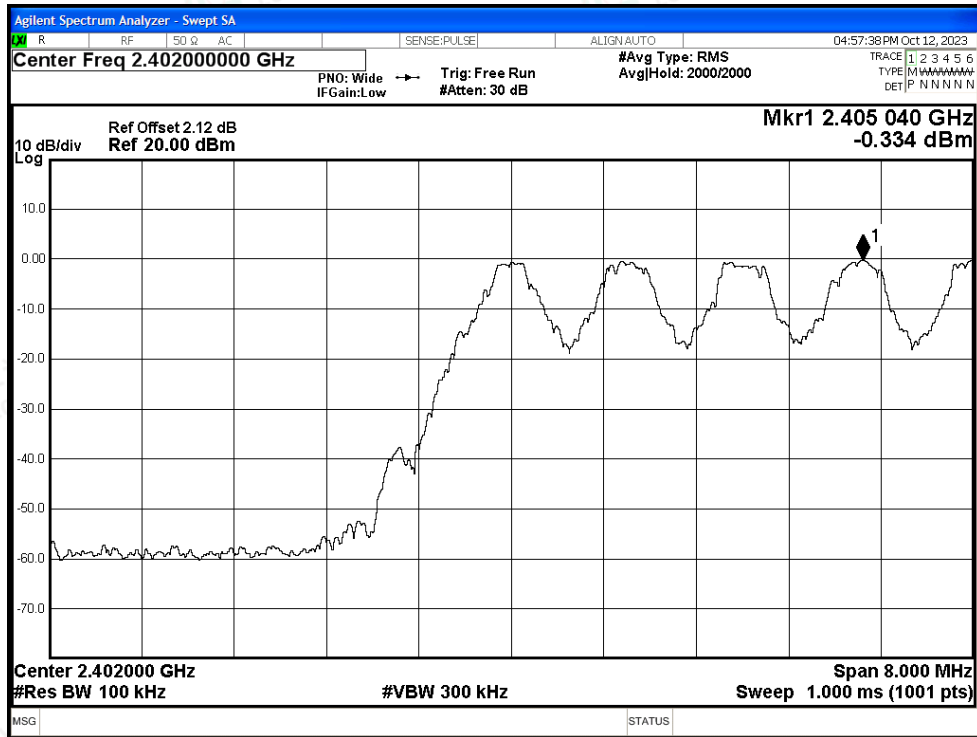


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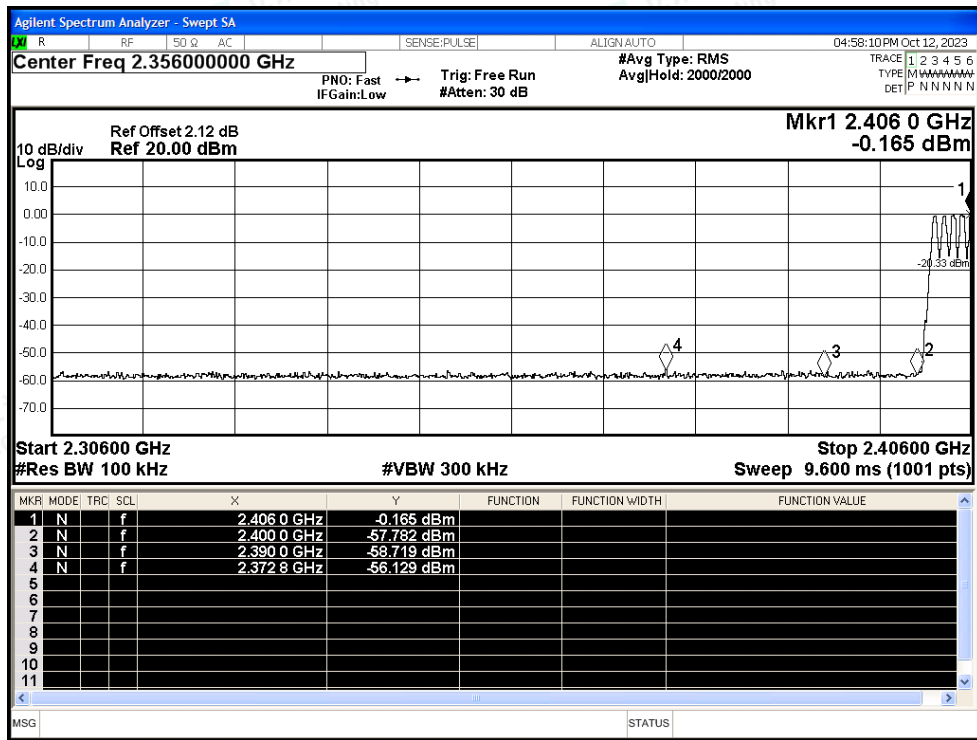


Test Graphs

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

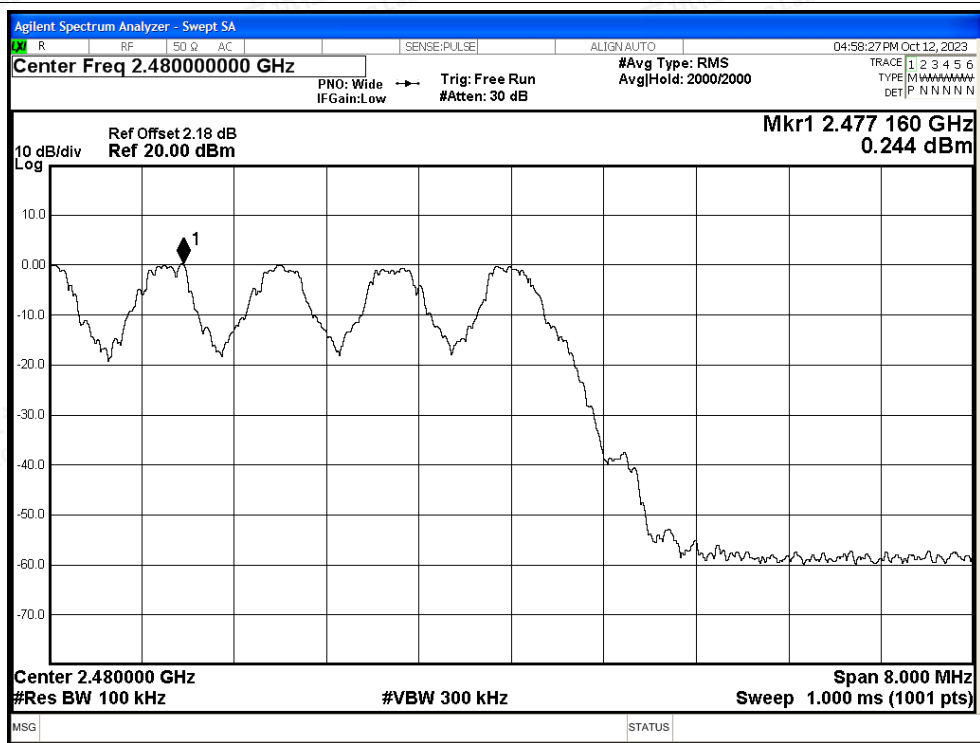


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

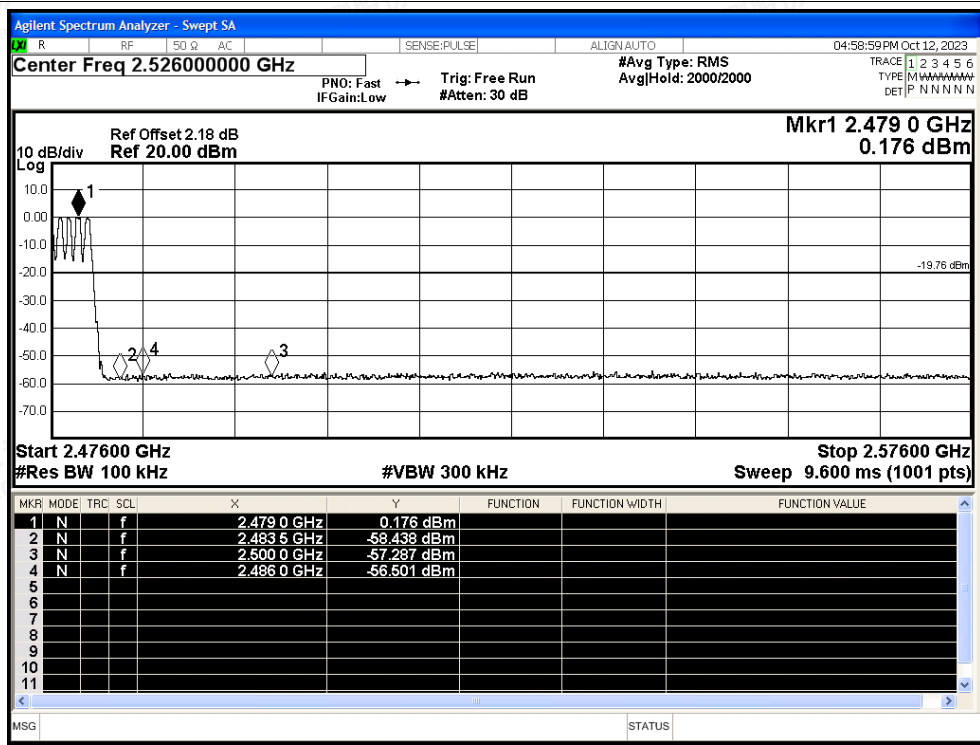




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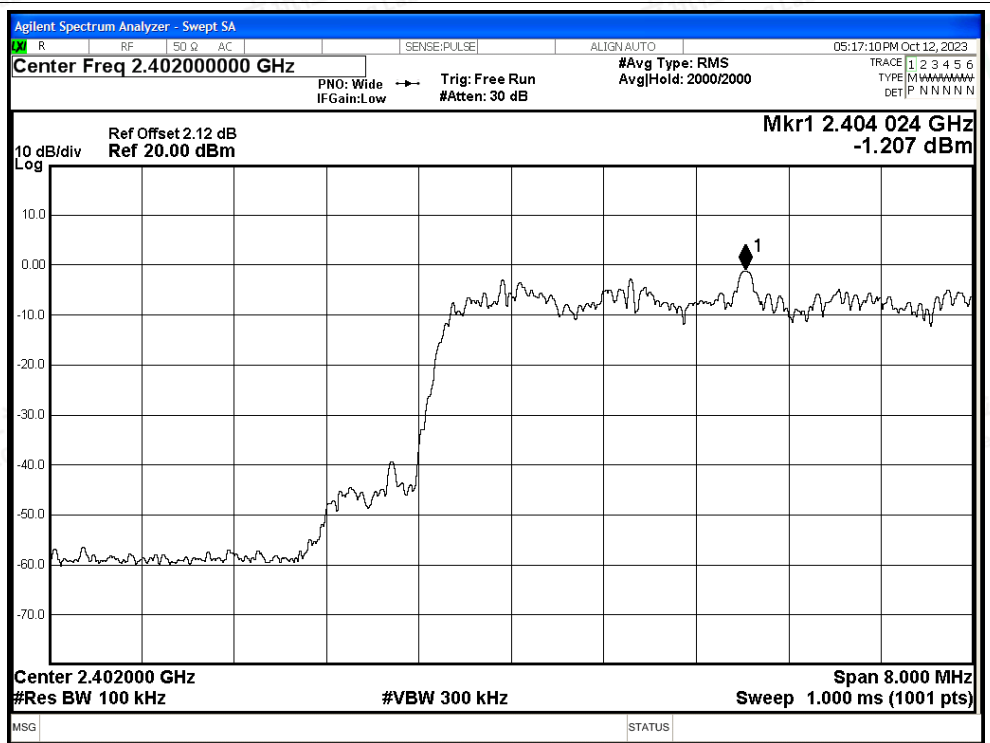


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

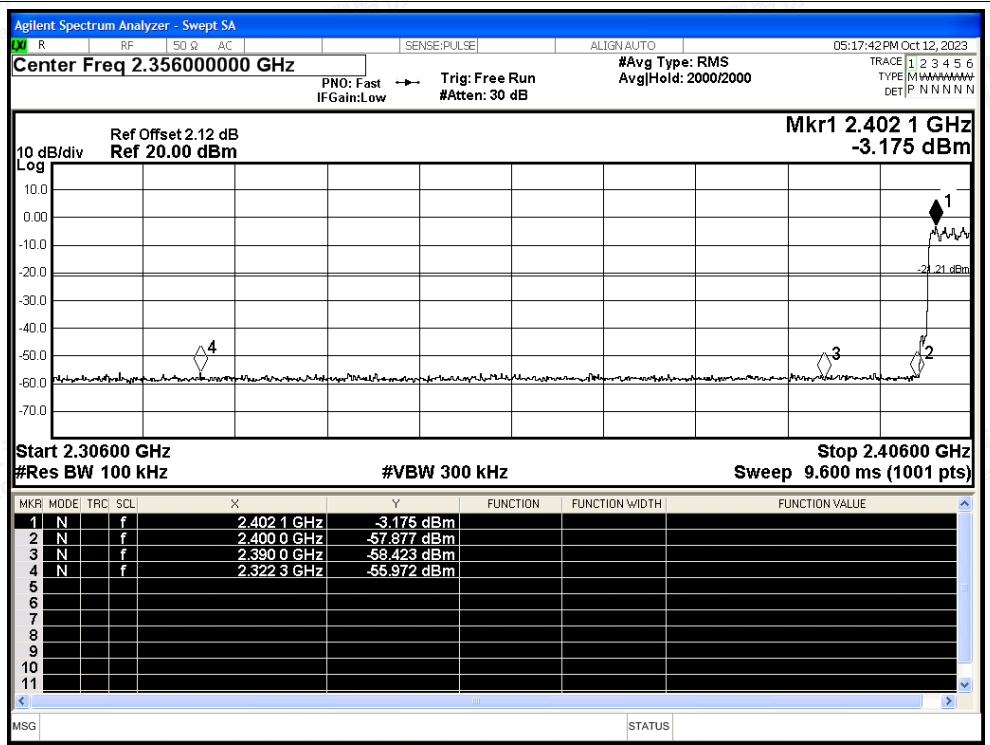




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

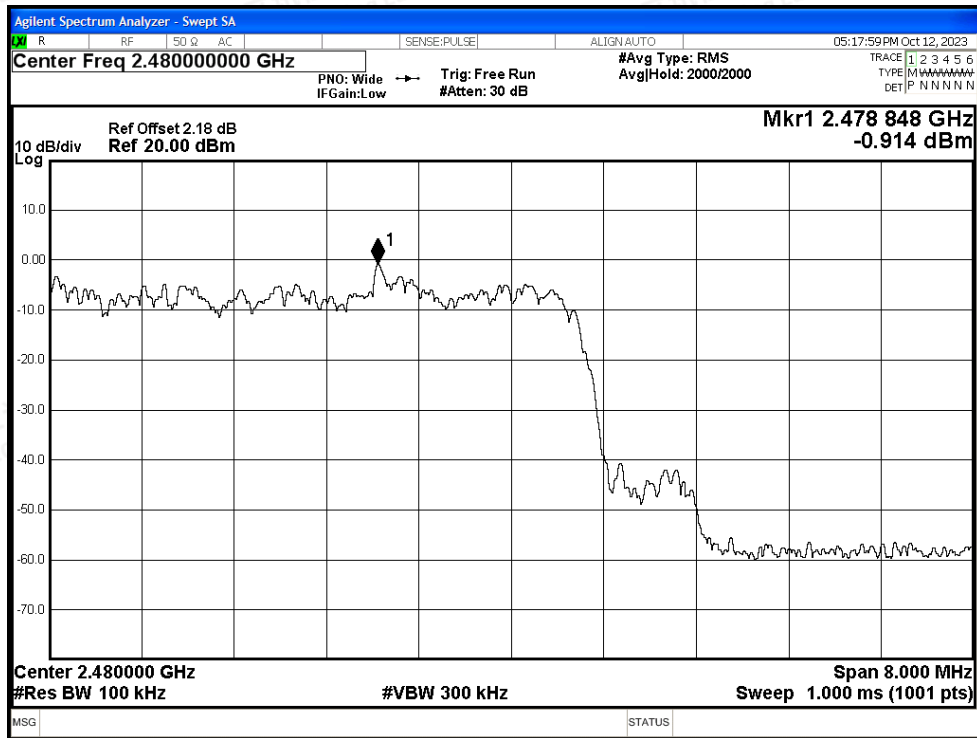


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

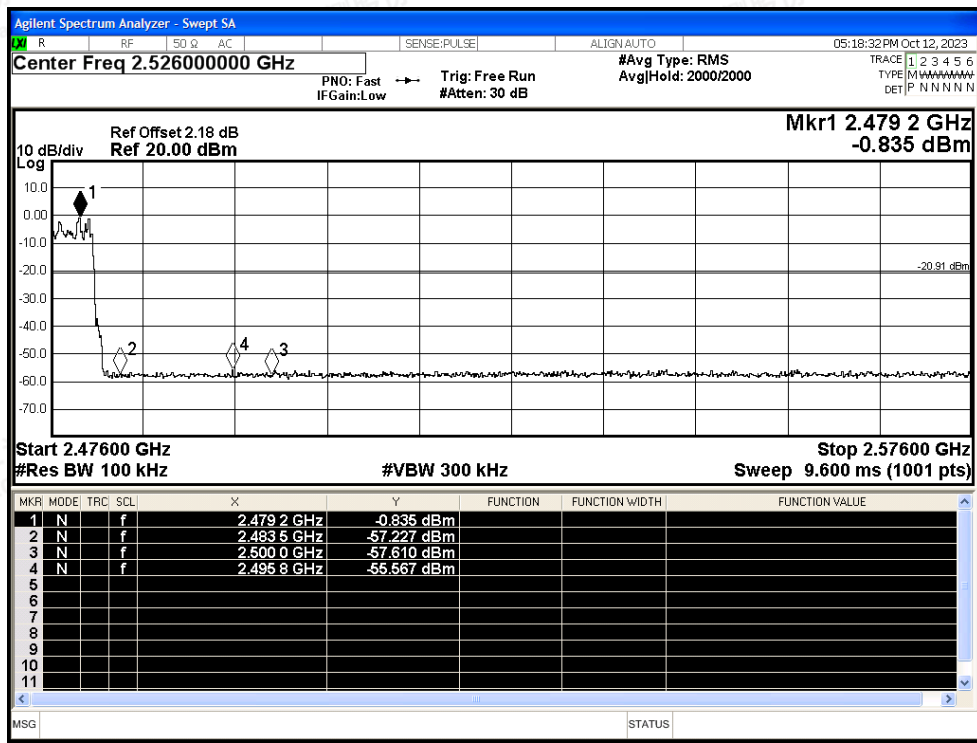




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

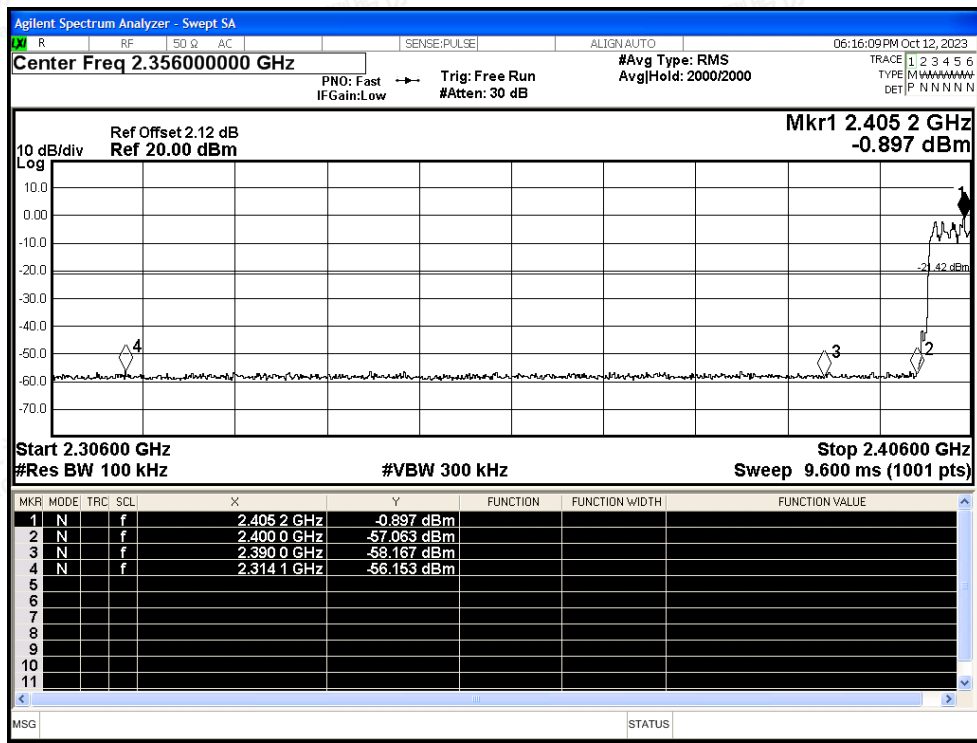




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

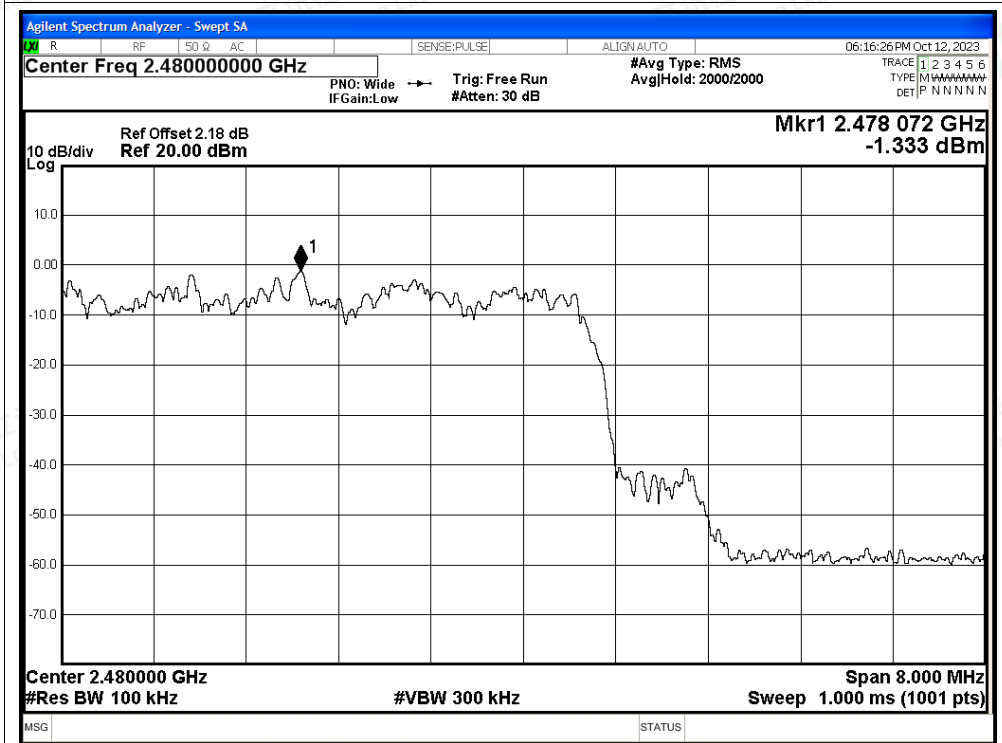


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

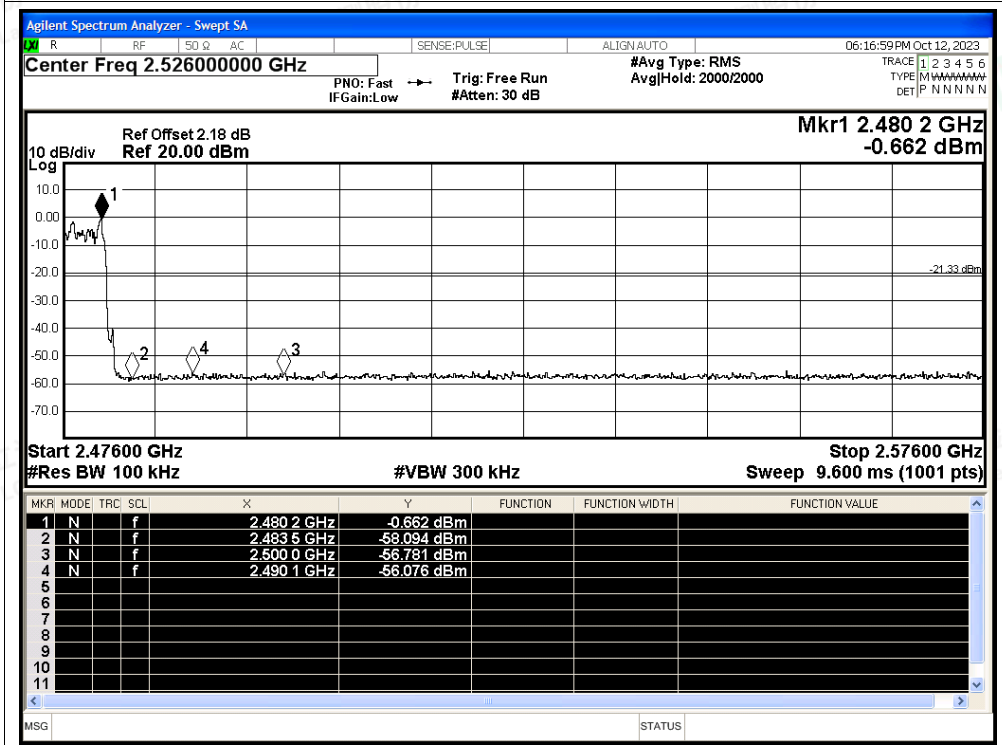




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-54.34	-20	Pass
NVNT	1-DH5	2441	Ant1	-50.13	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.89	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.32	-20	Pass
NVNT	2-DH5	2441	Ant1	-54	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.34	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.47	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.88	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.84	-20	Pass

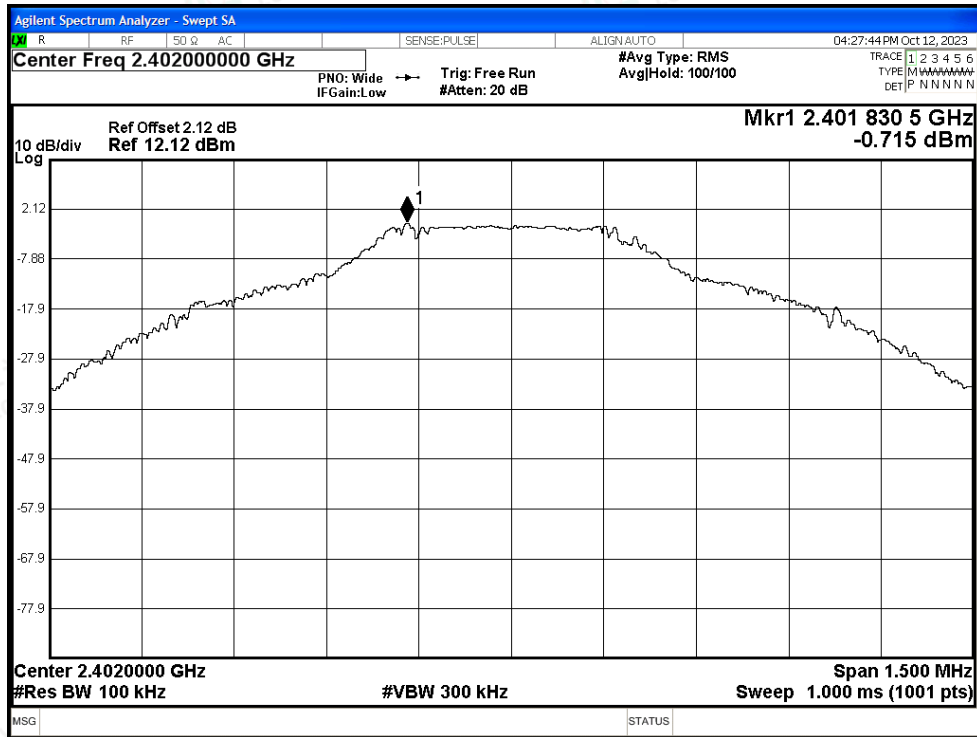


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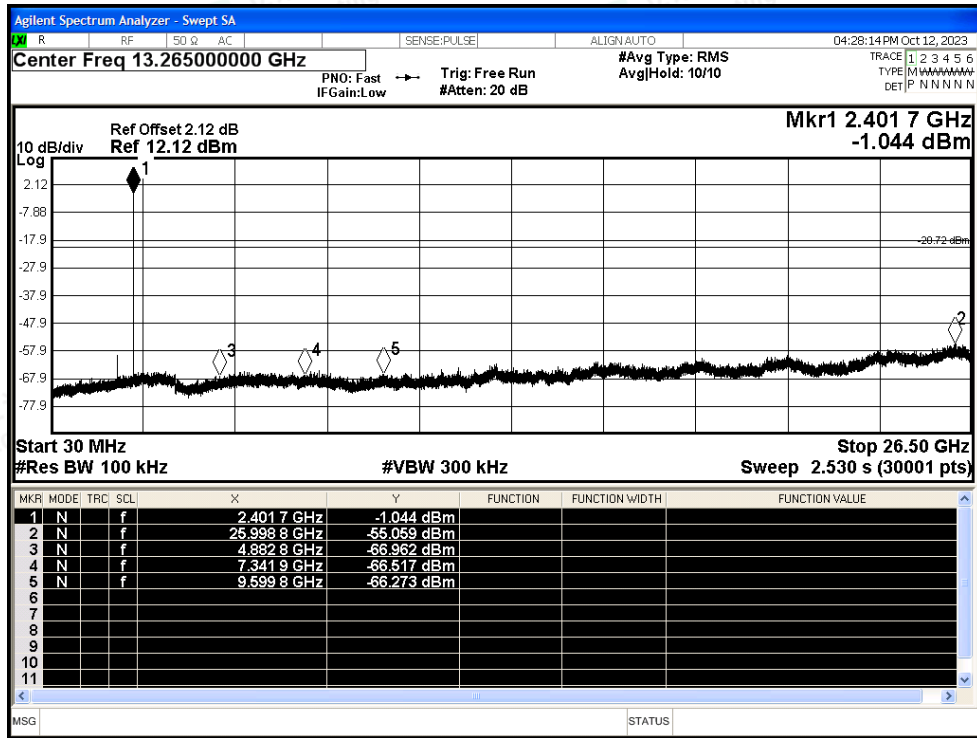


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

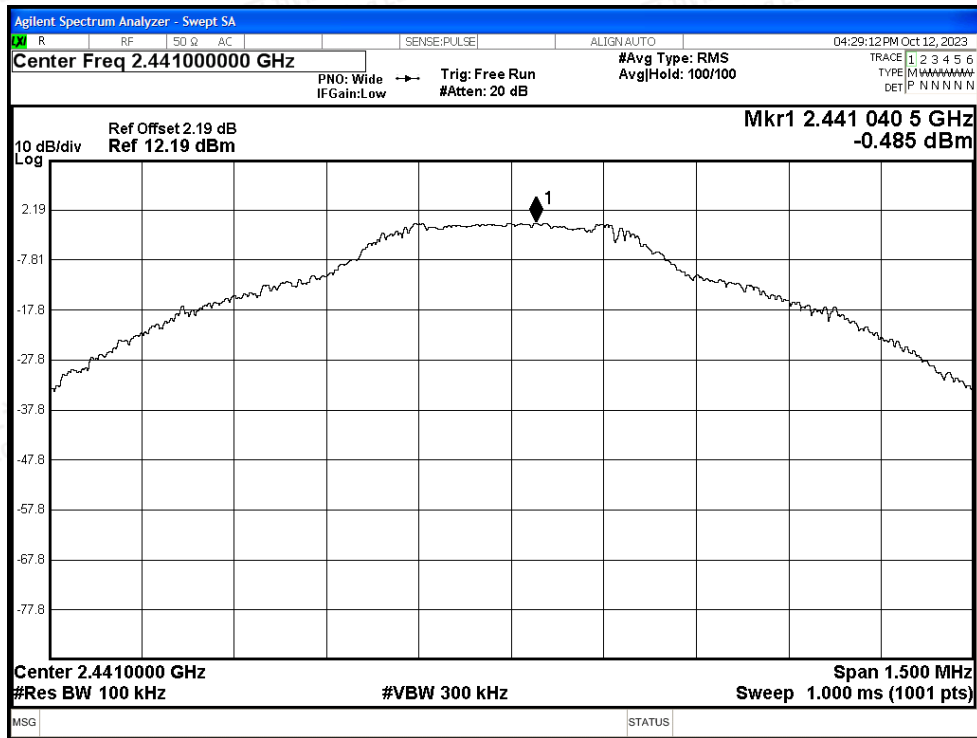


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

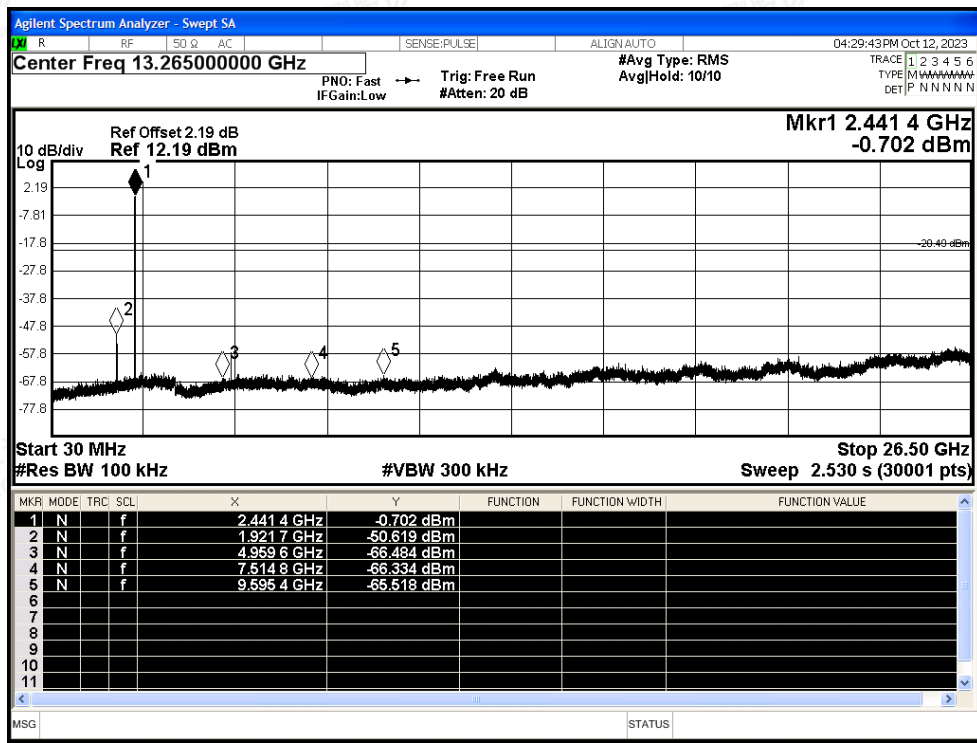




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

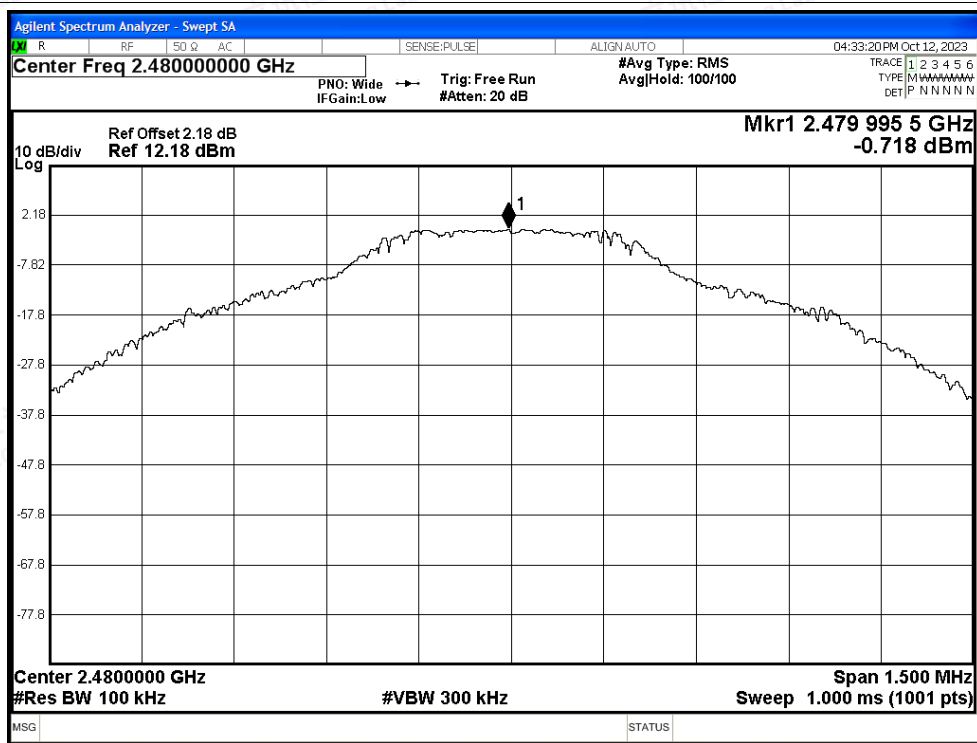


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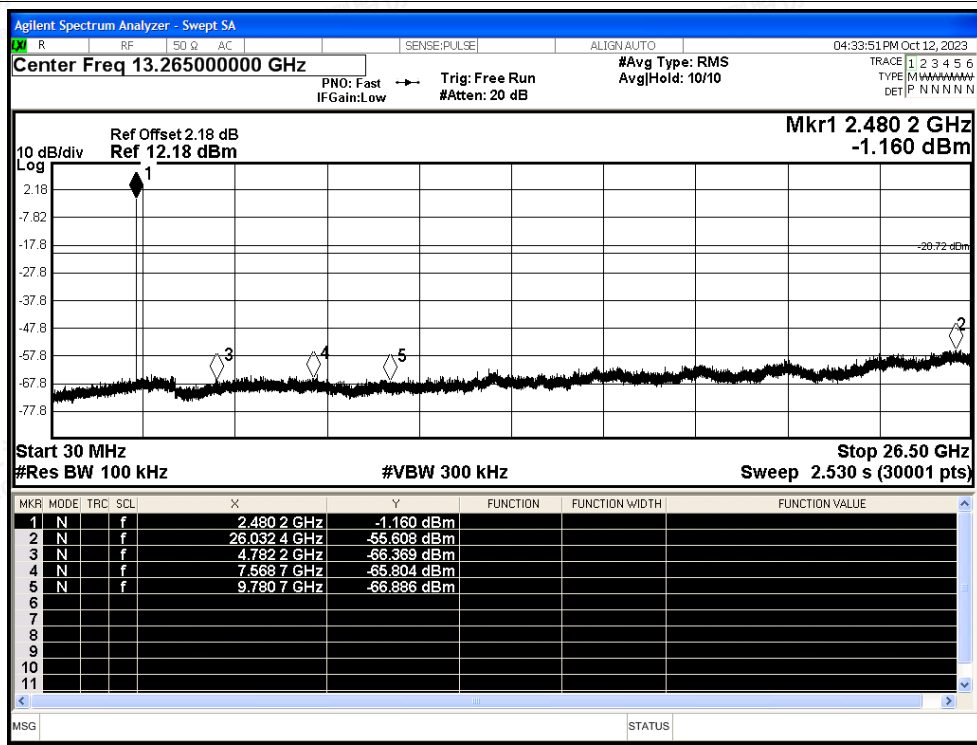




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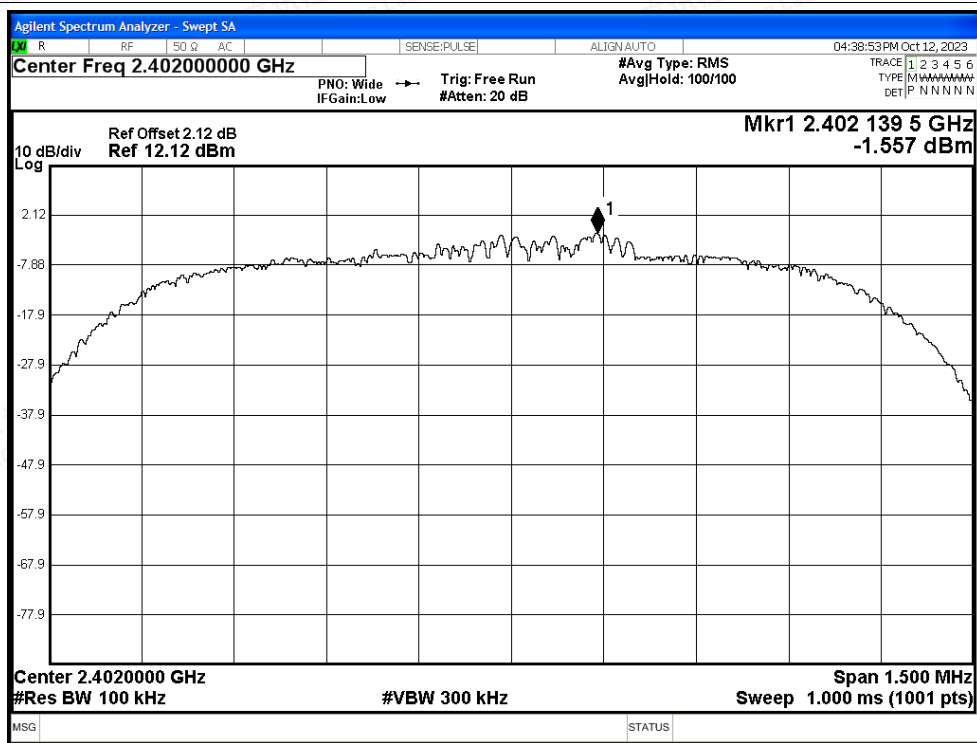


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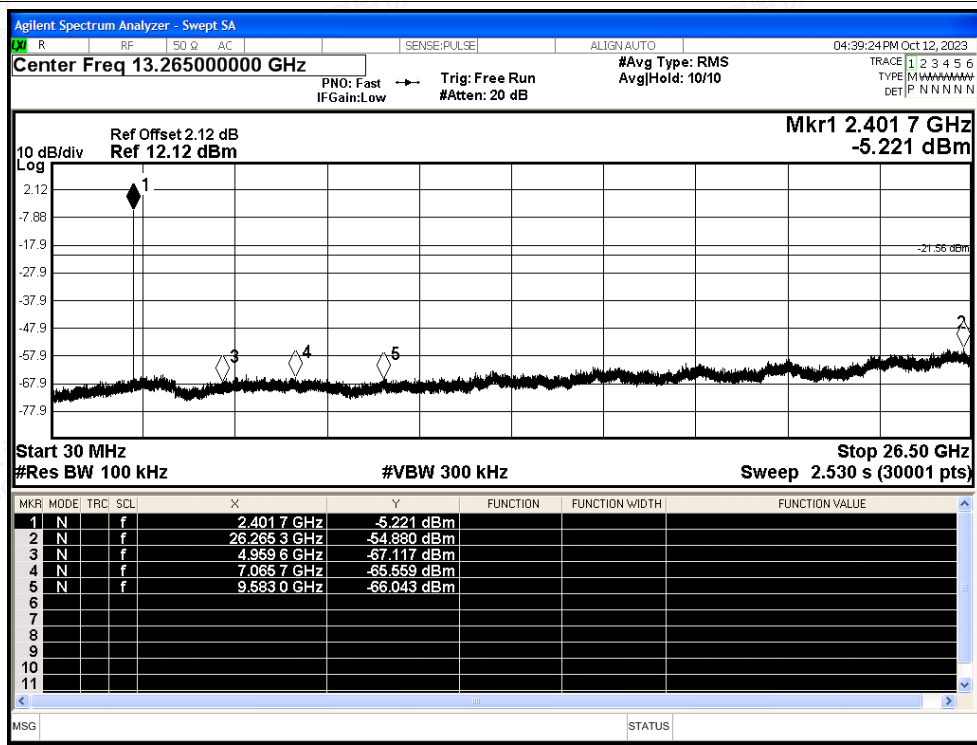




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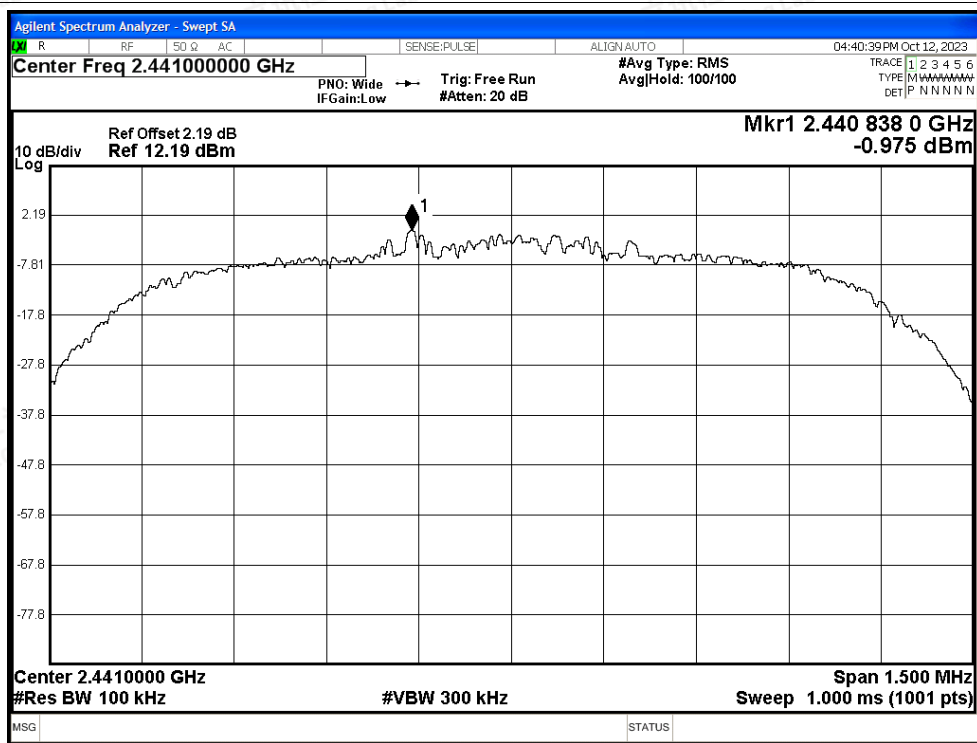


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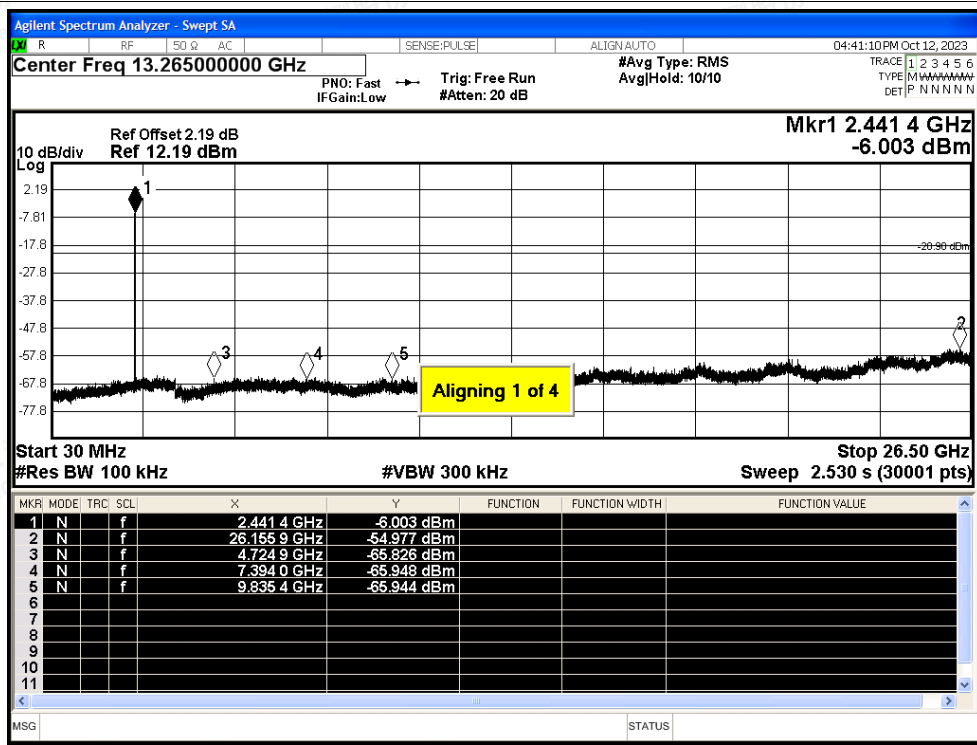




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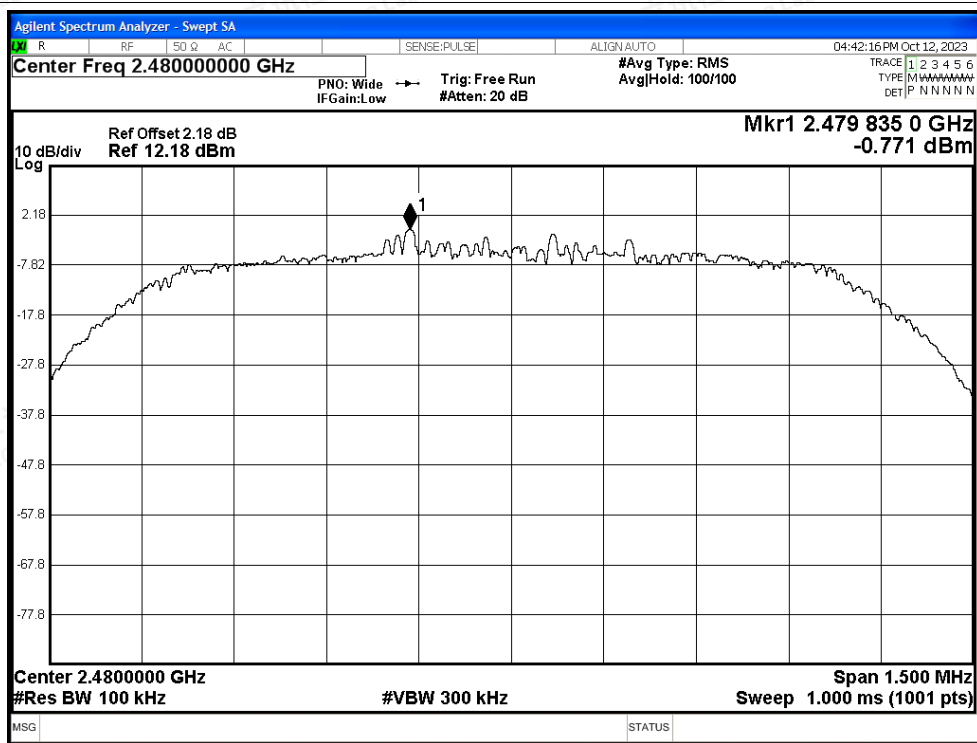


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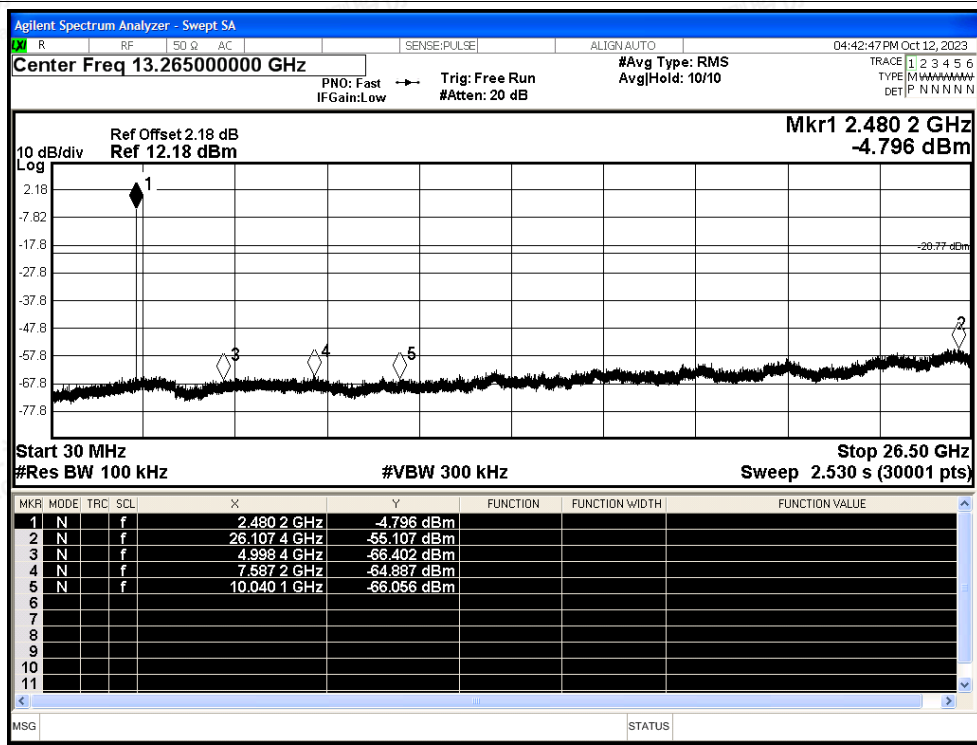




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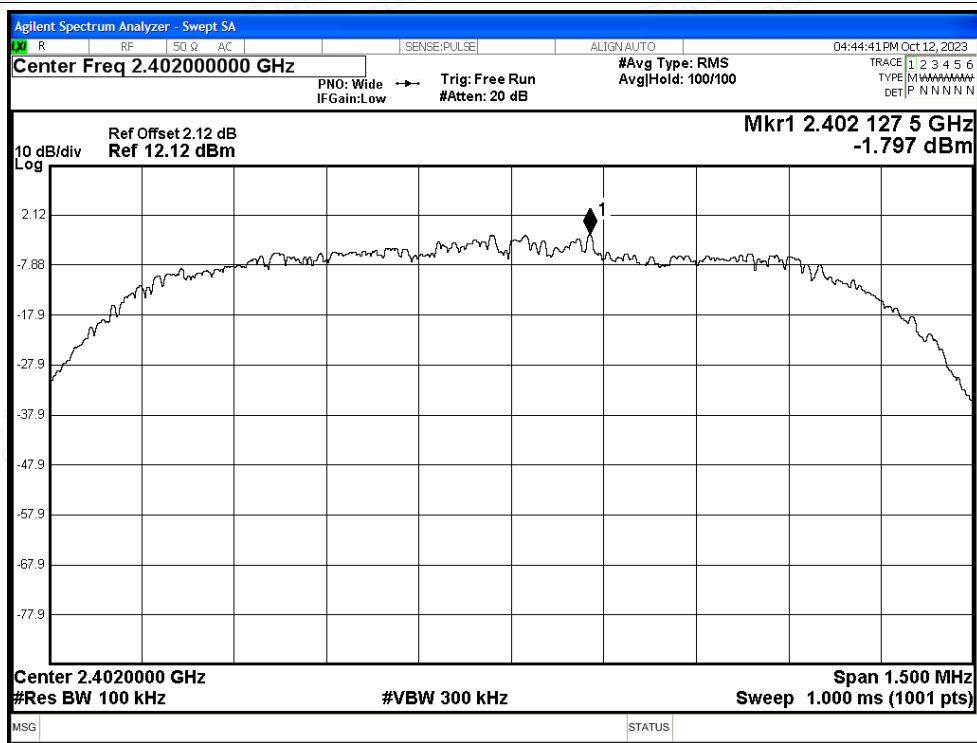


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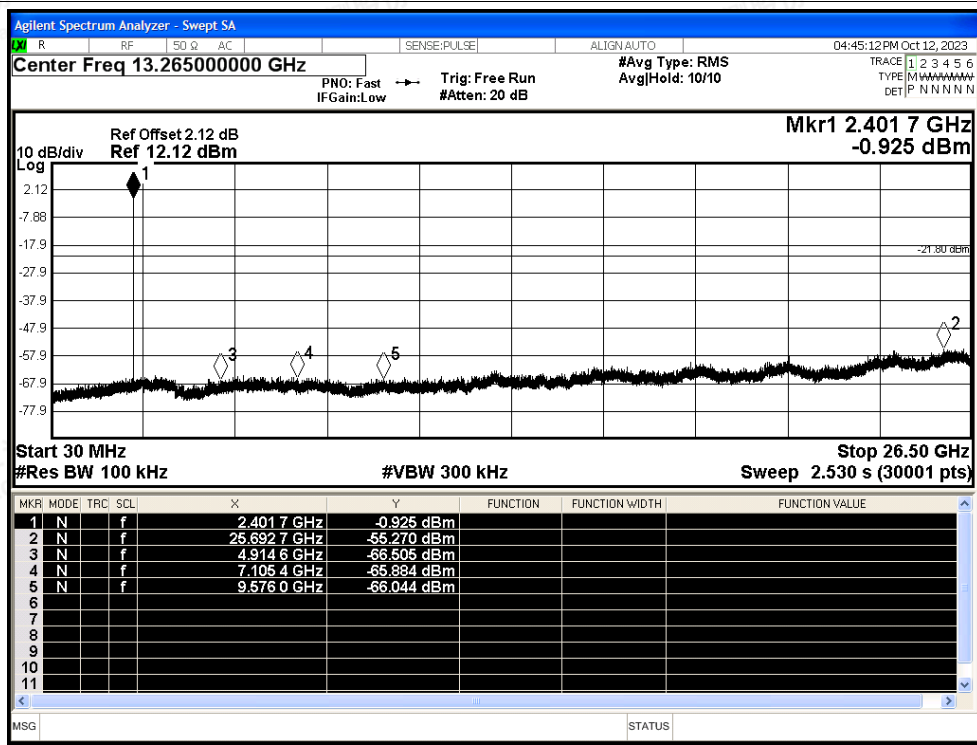




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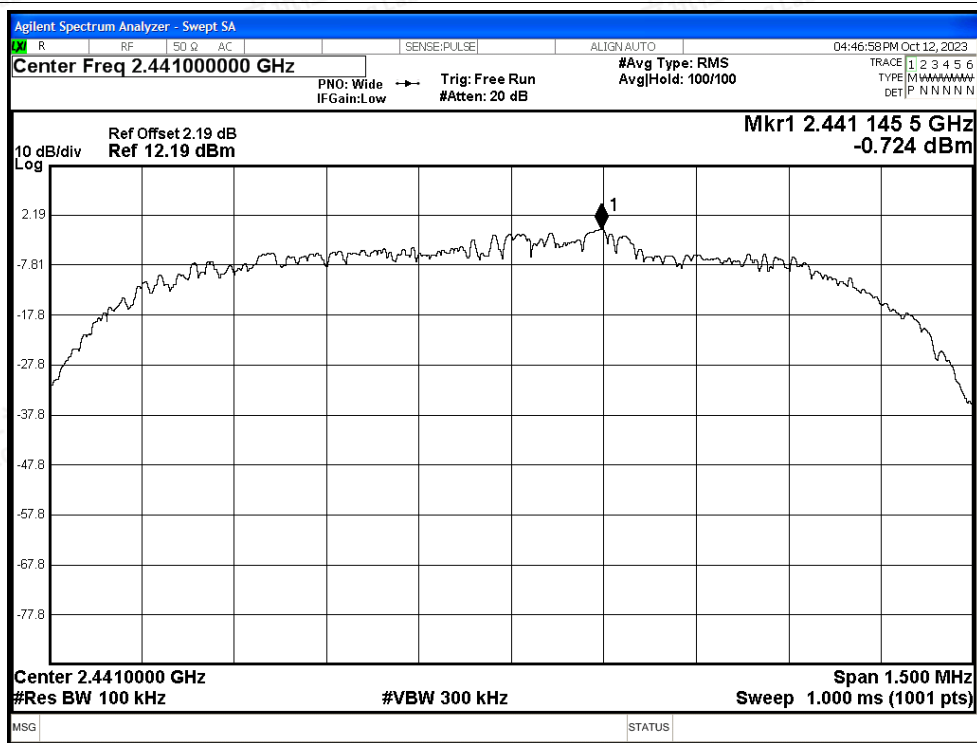


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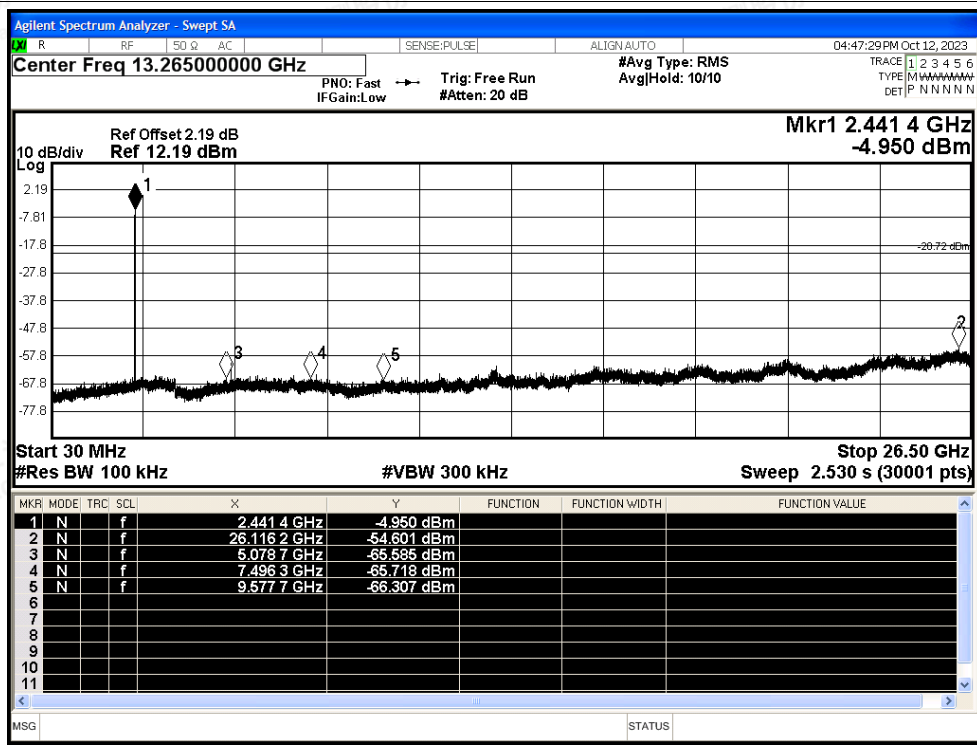




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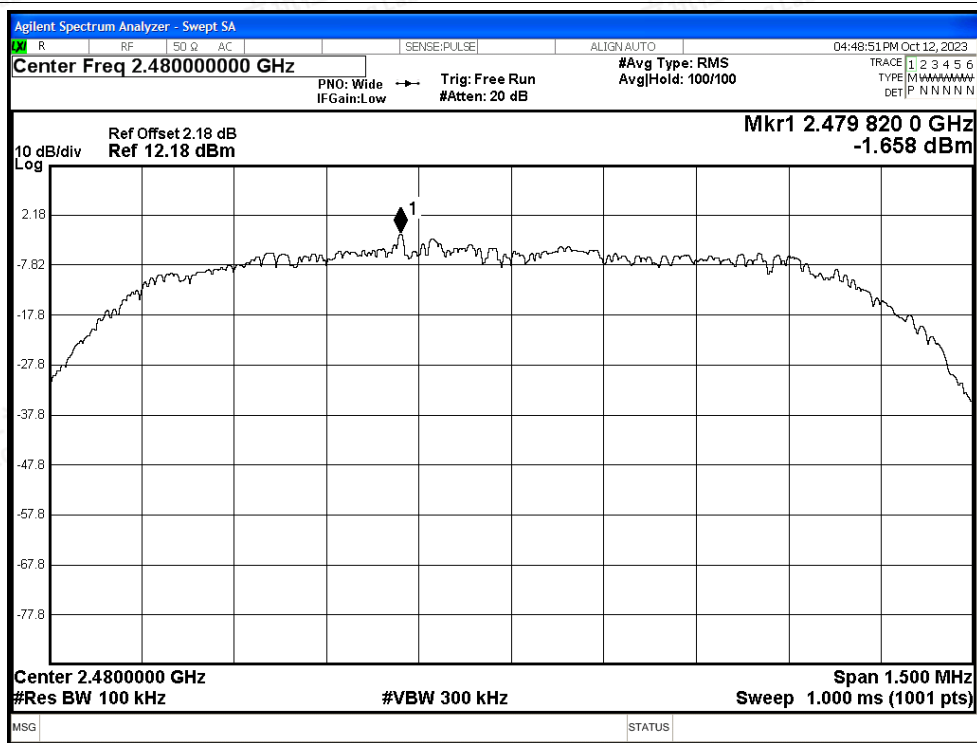


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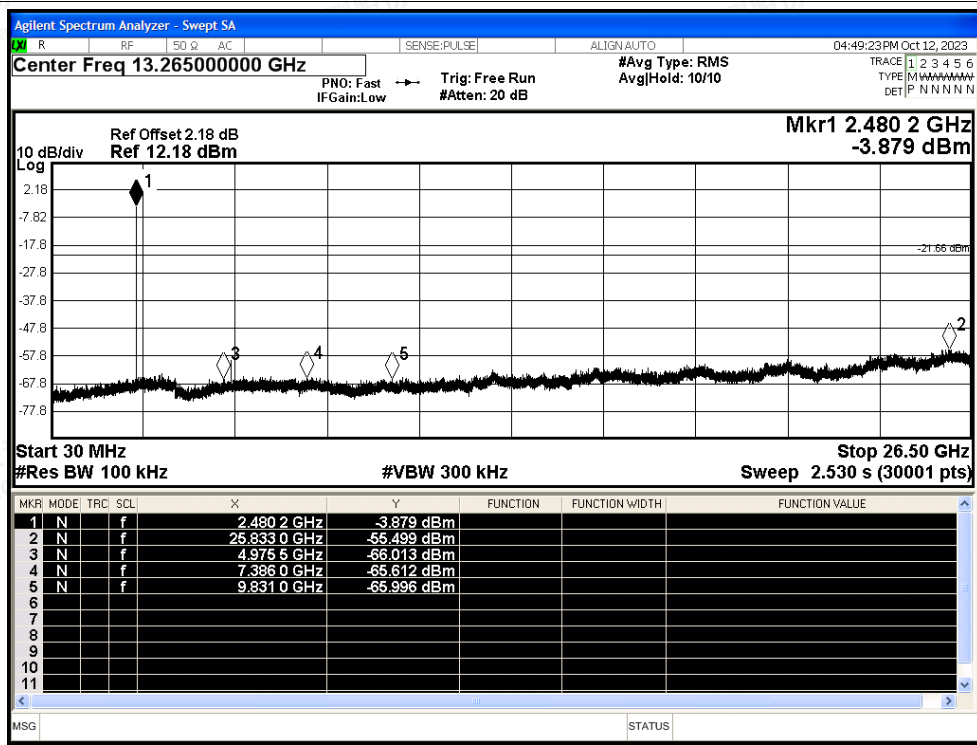




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.92	2	46.34	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.81	2	39.45	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.4	-47.35	2	49.91	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.456	-57.32	2	39.94	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.9	2	46.36	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.46	2	39.8	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.25	2	47.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.97	2	41.29	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2496.52	-46.82	2	50.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.97	2	41.29	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.93	2	47.33	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.02	2	40.24	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.45	2	45.81	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.68	2	39.58	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2382.48	-47.28	2	49.98	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.856	-57.28	2	39.98	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-47.77	2	49.49	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.44	2	39.82	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.16	2	49.1	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.66	2	41.6	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.616	-46.72	2	50.54	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.66	2	41.6	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.62	2	46.64	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.04	2	40.22	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.56	2	45.7	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.72	2	39.54	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2376.912	-47.37	2	49.89	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.872	-57.31	2	39.95	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.8	2	46.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.41	2	39.85	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.19	2	47.07	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.58	2	41.68	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2492.44	-47.12	2	50.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.58	2	41.68	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-48.84	2	48.42	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.09	2	40.17	Average	54	Pass



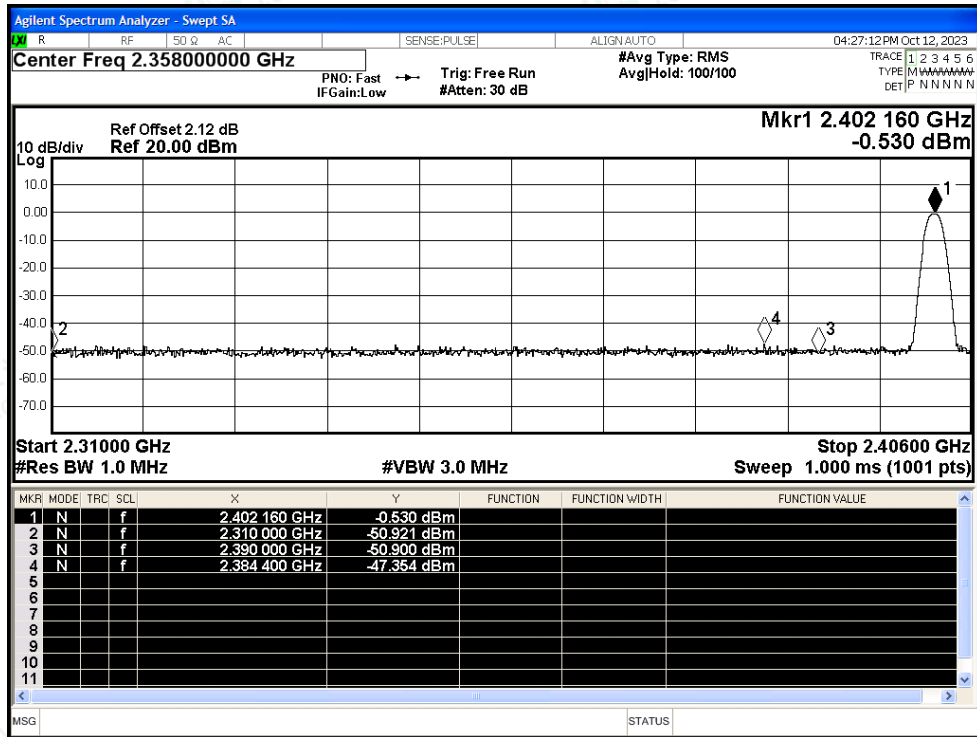


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Scan code to check authenticity

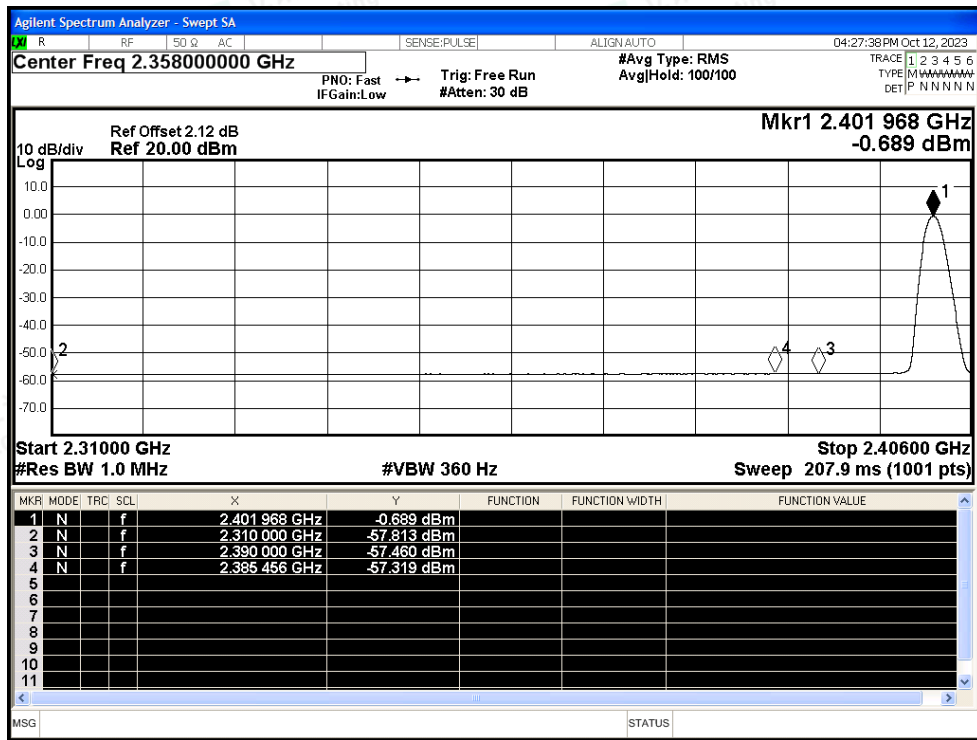


Test Graphs

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

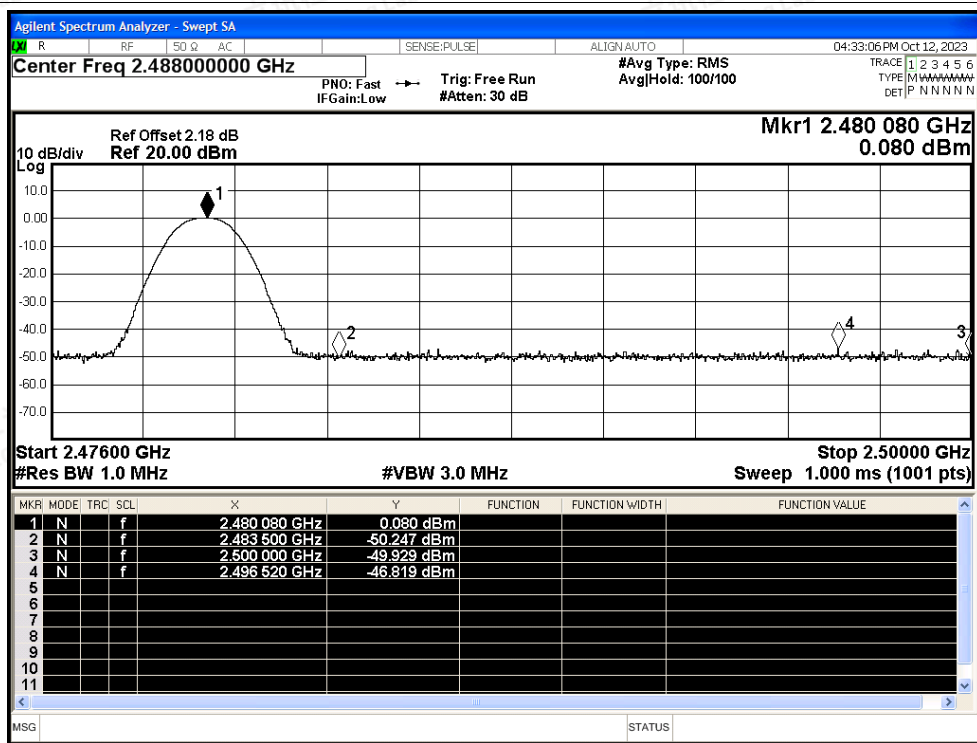


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

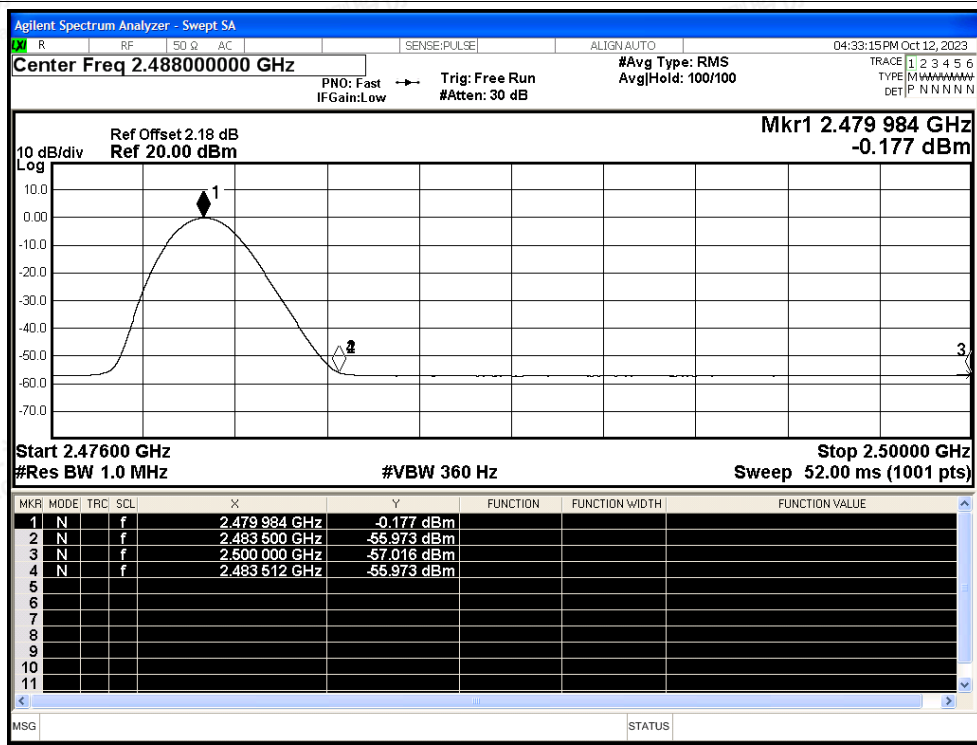




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

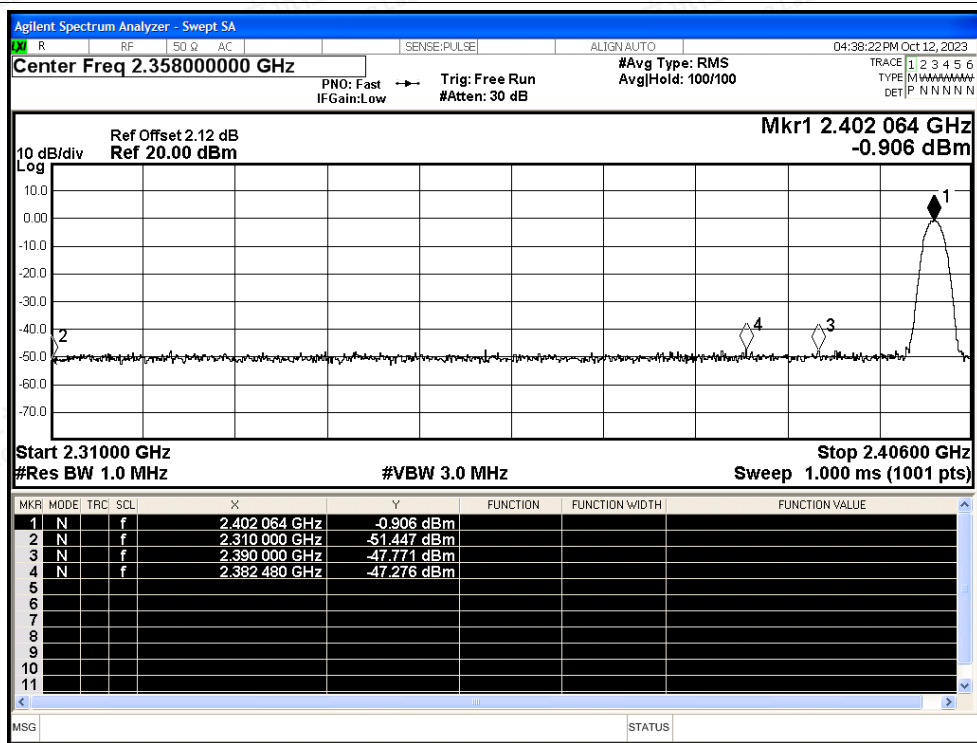


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

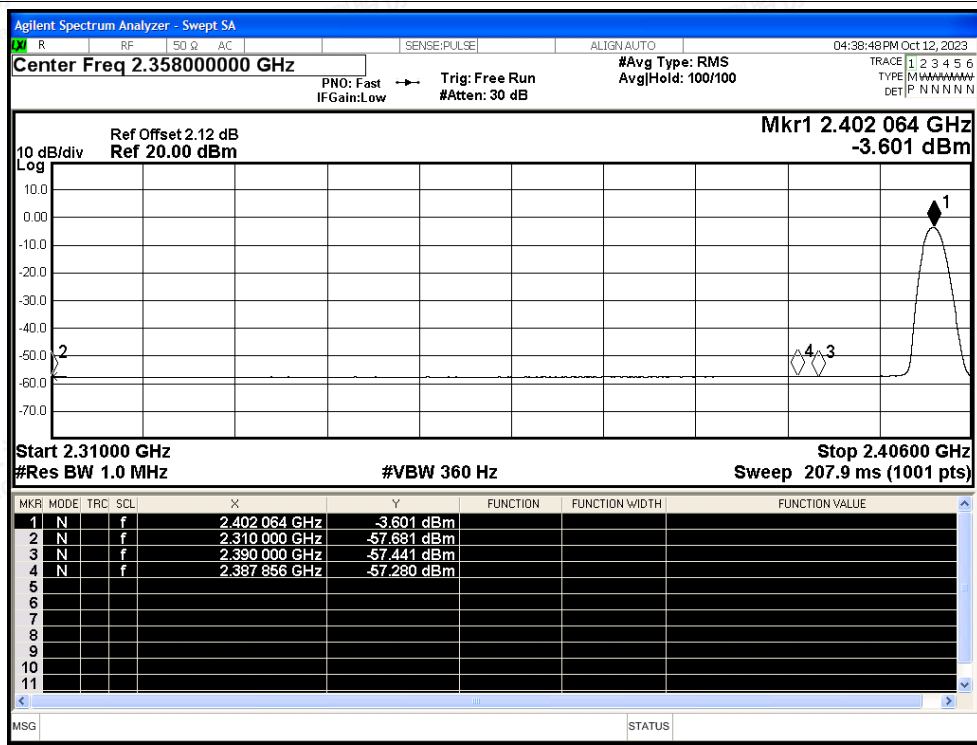




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

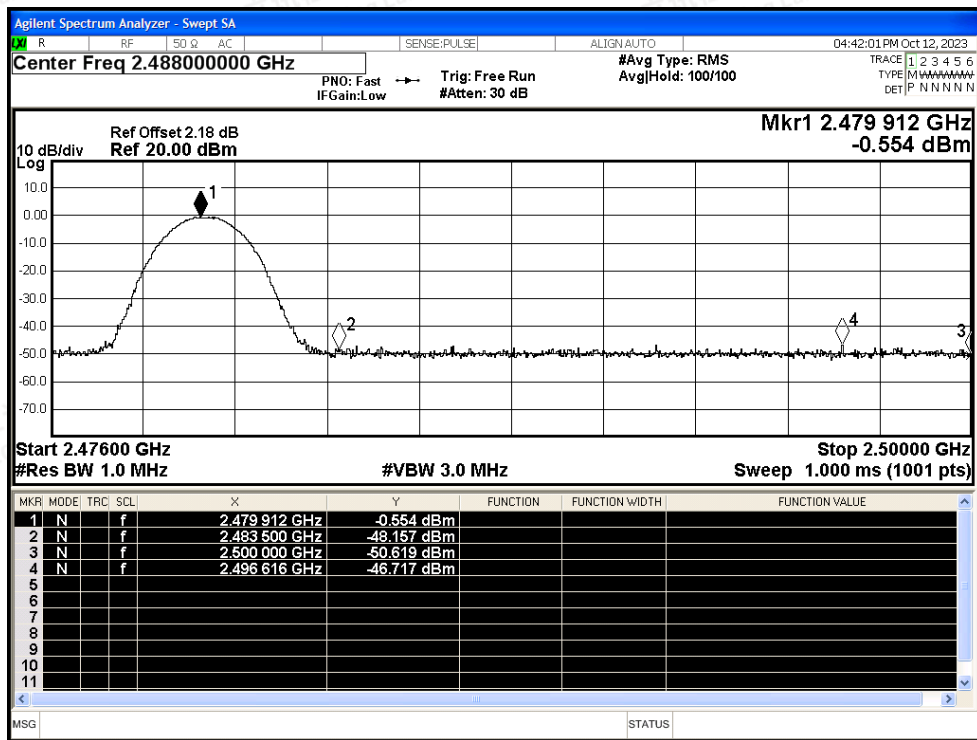


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

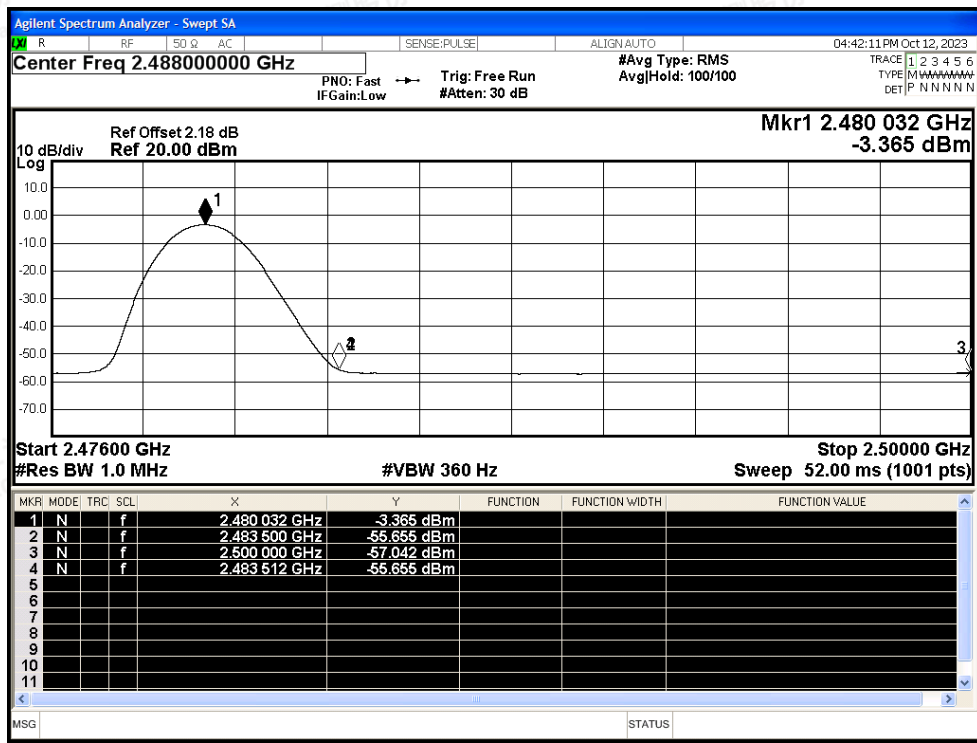




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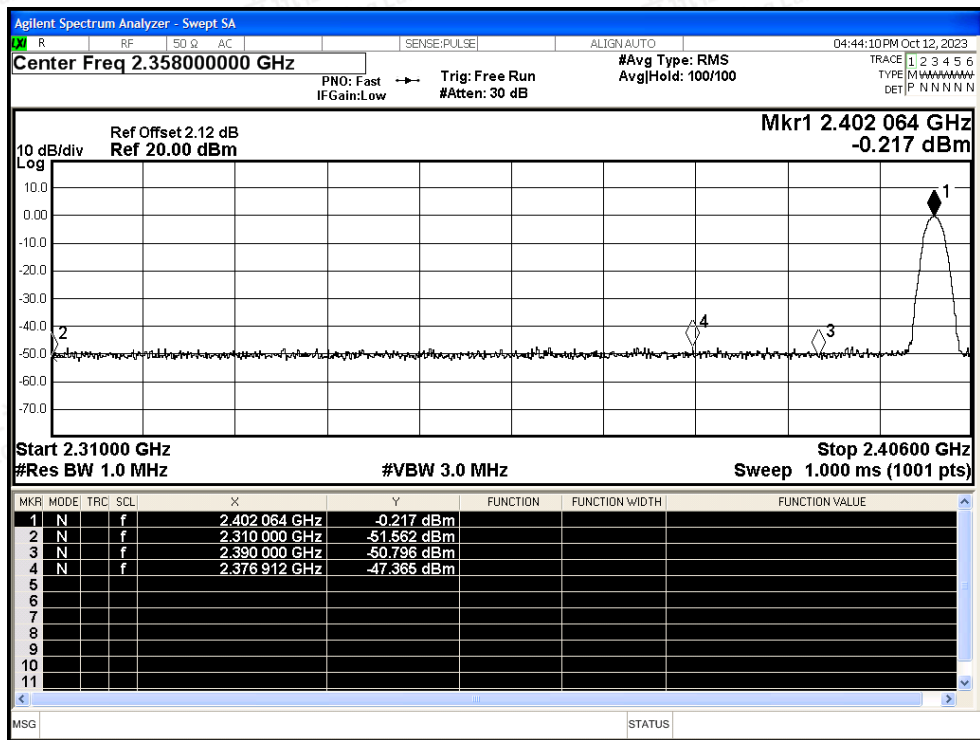


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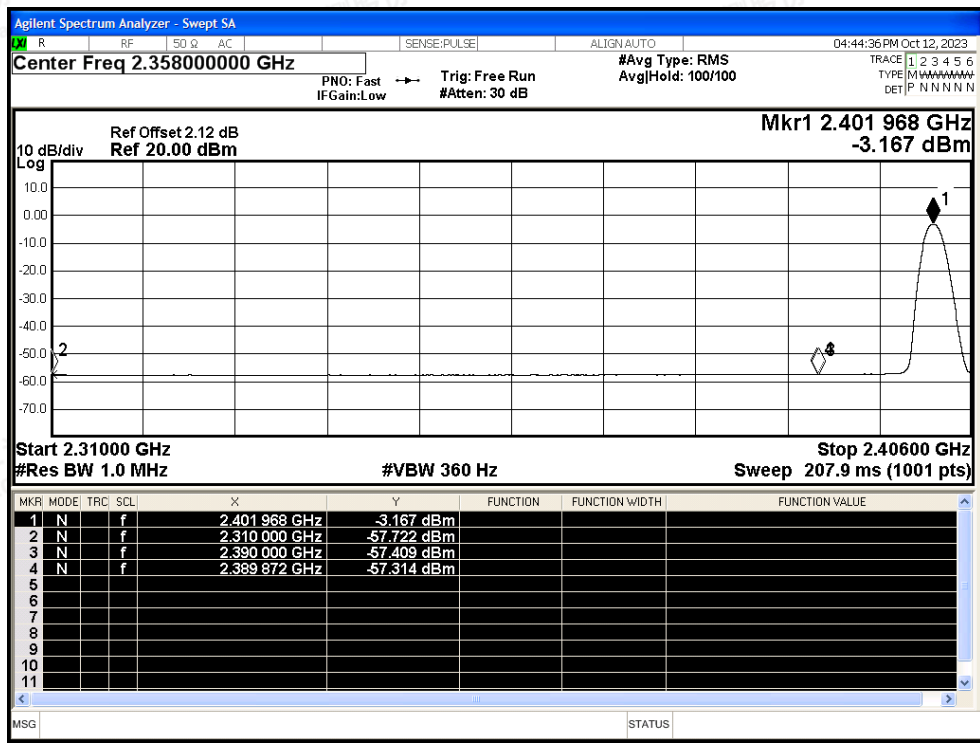




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

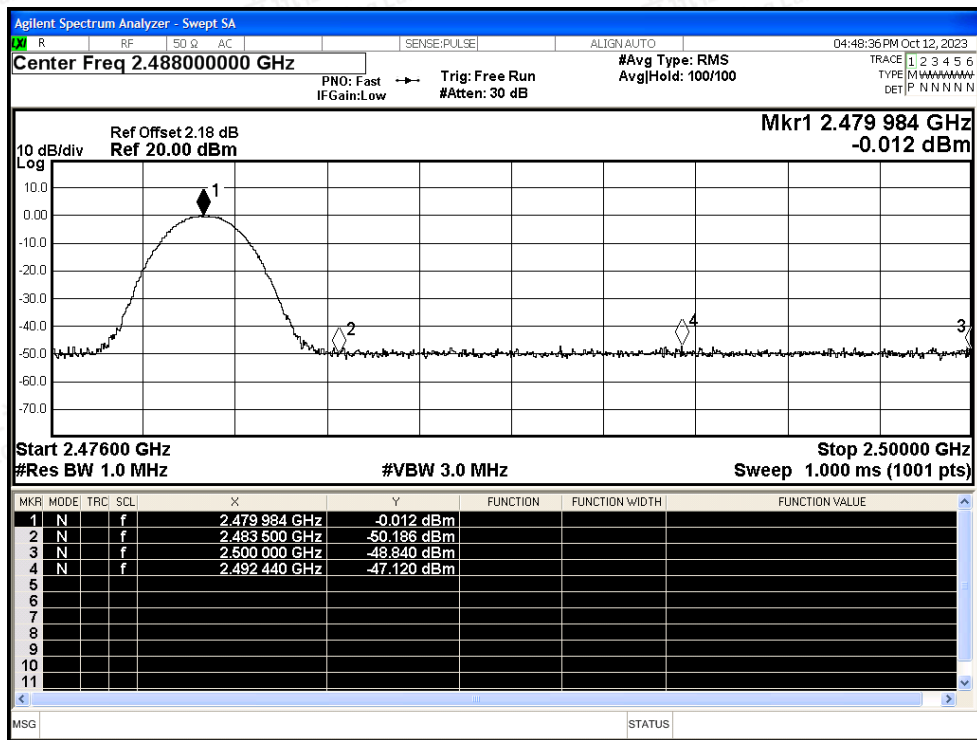


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

