



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Laptop PC 13.3inch

Test Model: PN1308P

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
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	0.838	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.839	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.838	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.274	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.272	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.274	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.286	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.286	N/A	Pass

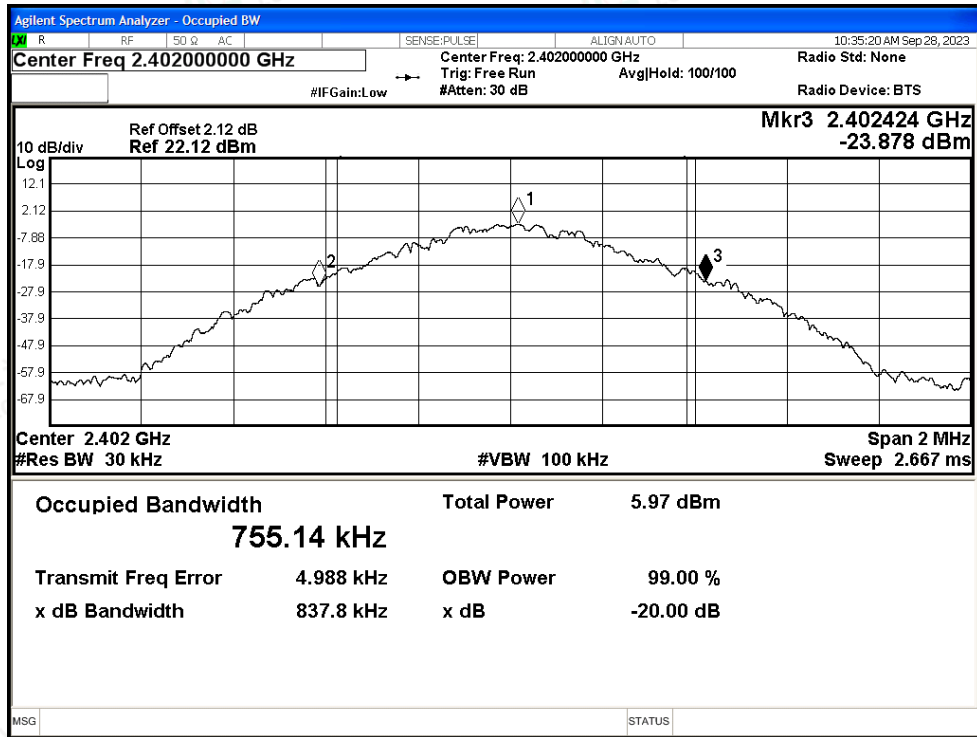


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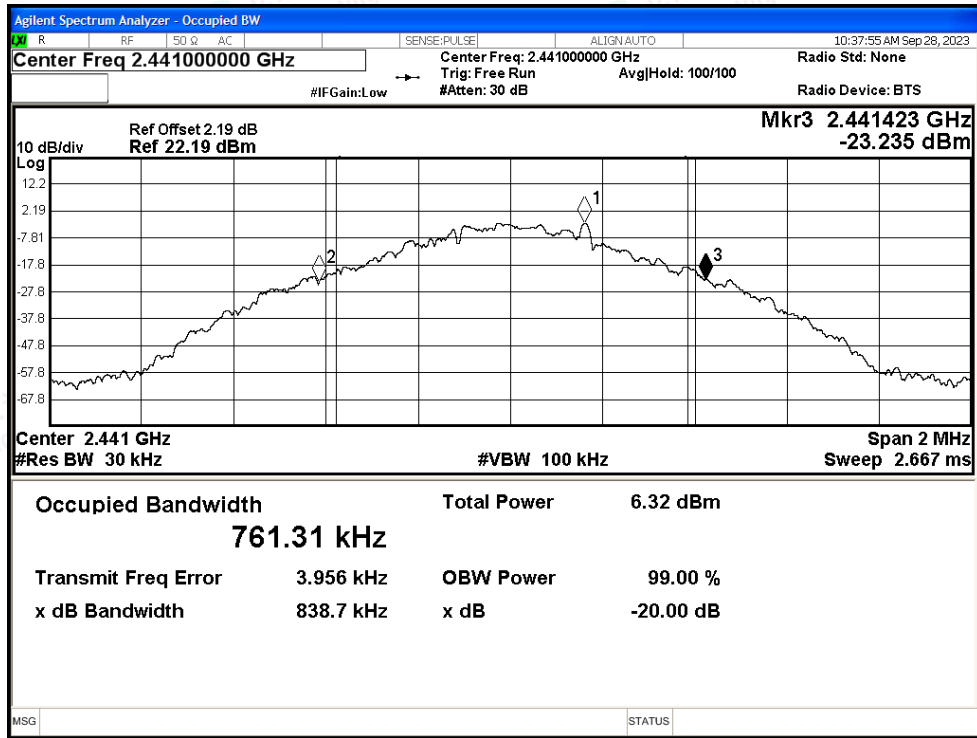


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

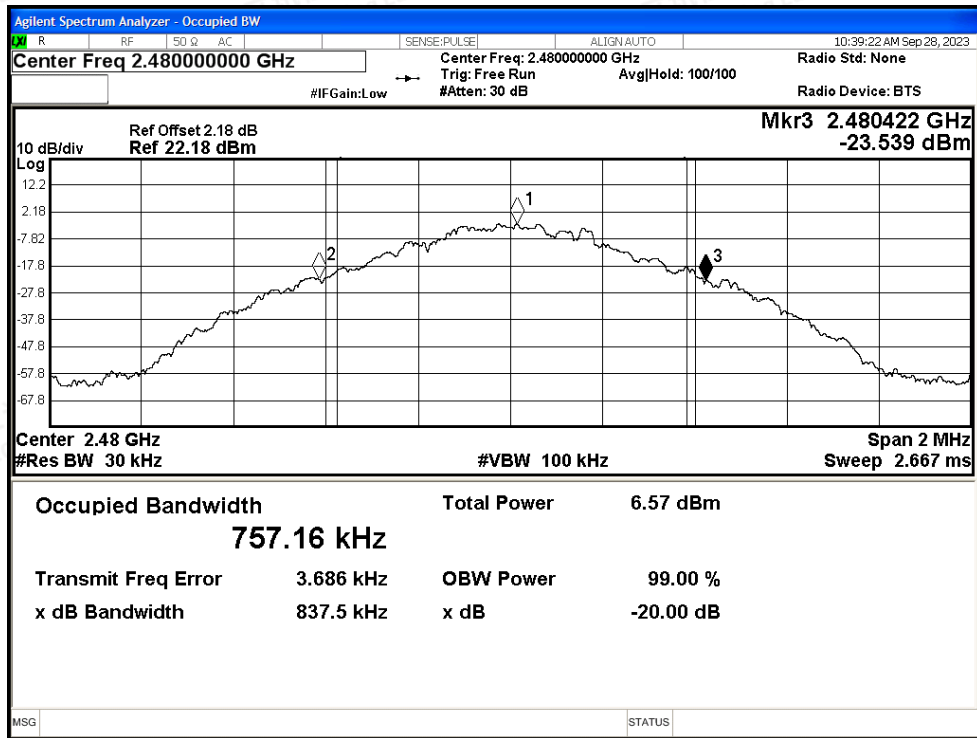


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

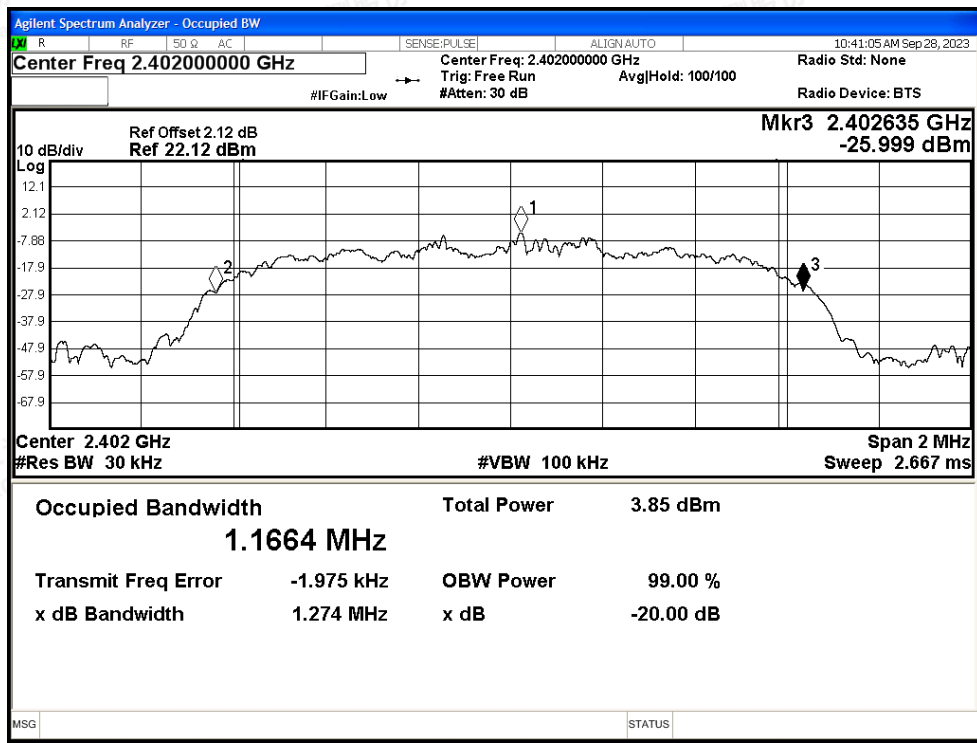




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

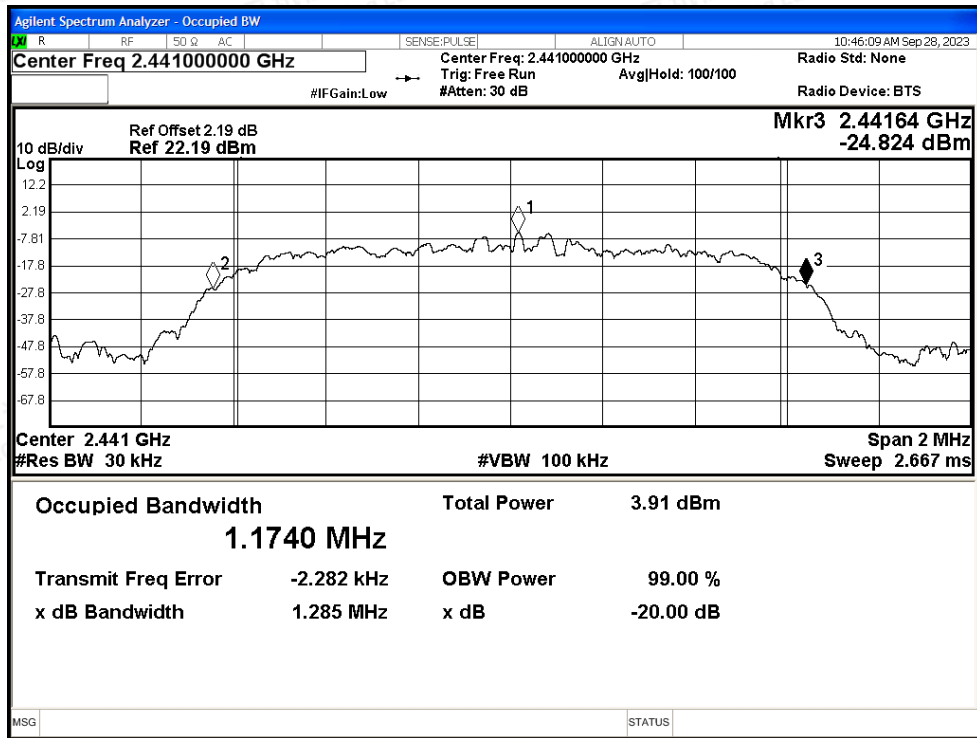


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

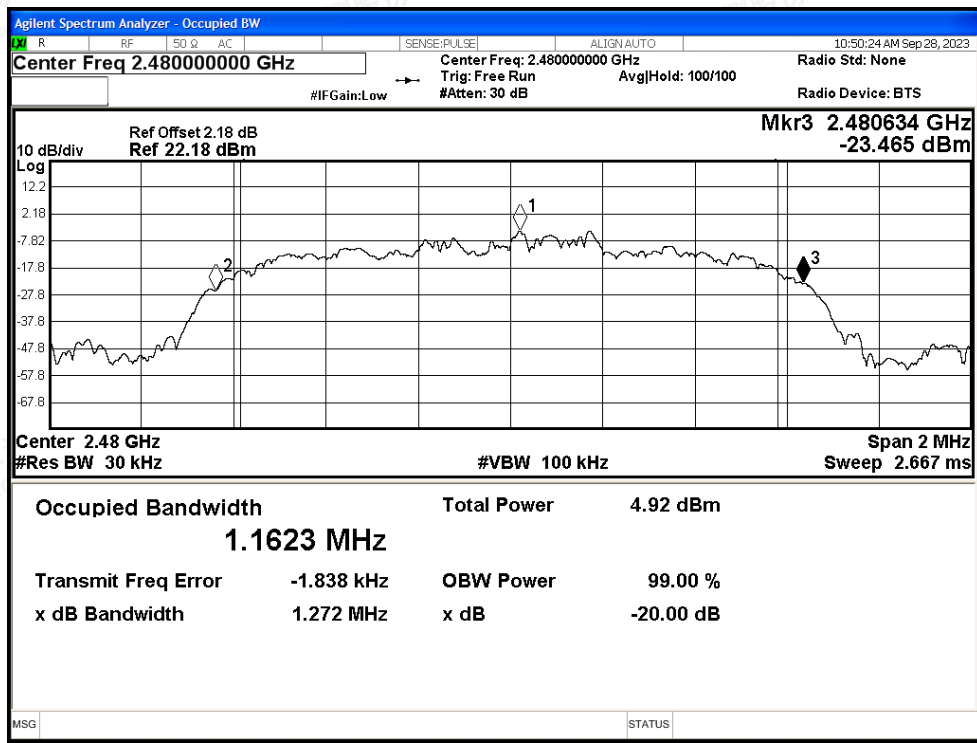




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

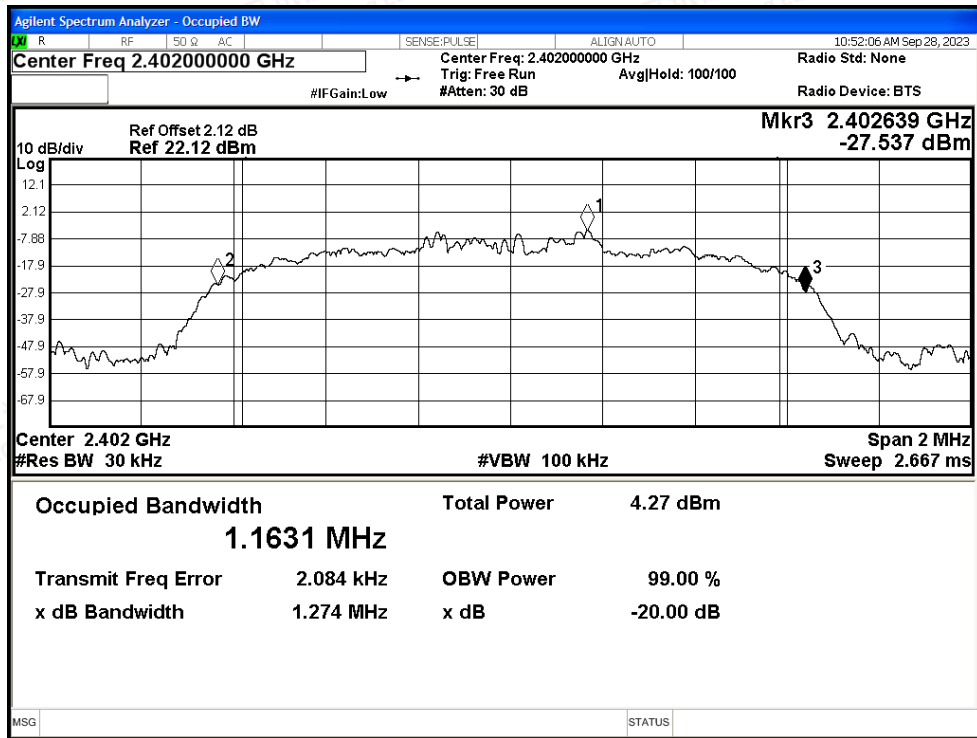


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

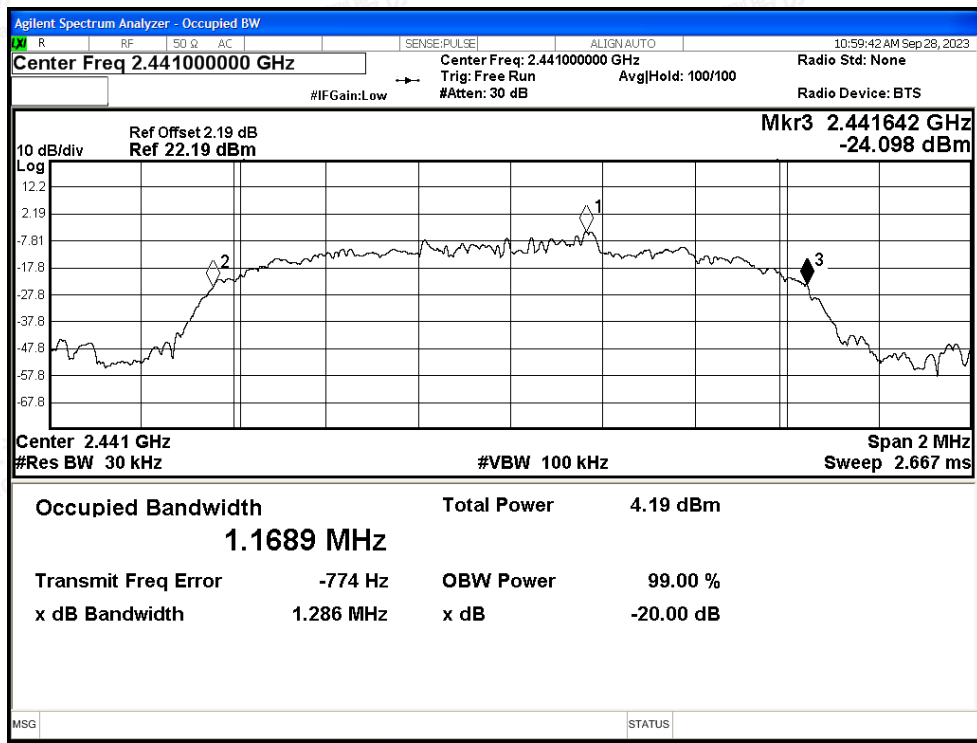




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

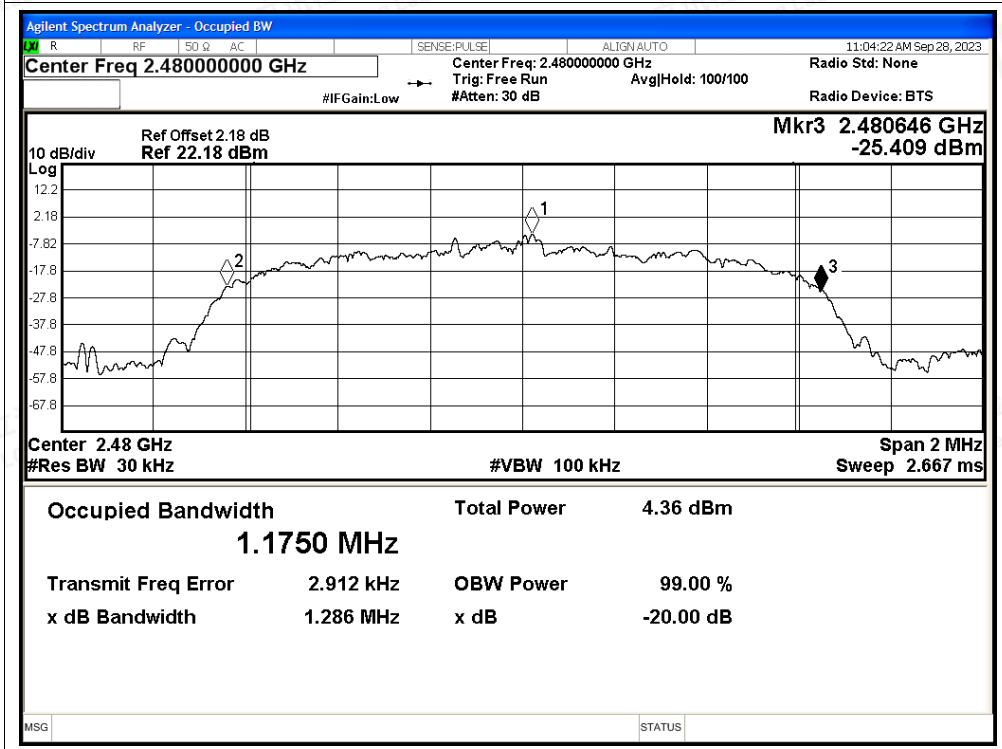


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-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	0.09	21	Pass
NVNT	1-DH5	2441	Ant1	0.50	21	Pass
NVNT	1-DH5	2480	Ant1	0.65	21	Pass
NVNT	2-DH5	2402	Ant1	-0.54	21	Pass
NVNT	2-DH5	2441	Ant1	-0.14	21	Pass
NVNT	2-DH5	2480	Ant1	0.01	21	Pass
NVNT	3-DH5	2402	Ant1	-0.58	21	Pass
NVNT	3-DH5	2441	Ant1	-0.15	21	Pass
NVNT	3-DH5	2480	Ant1	-0.01	21	Pass

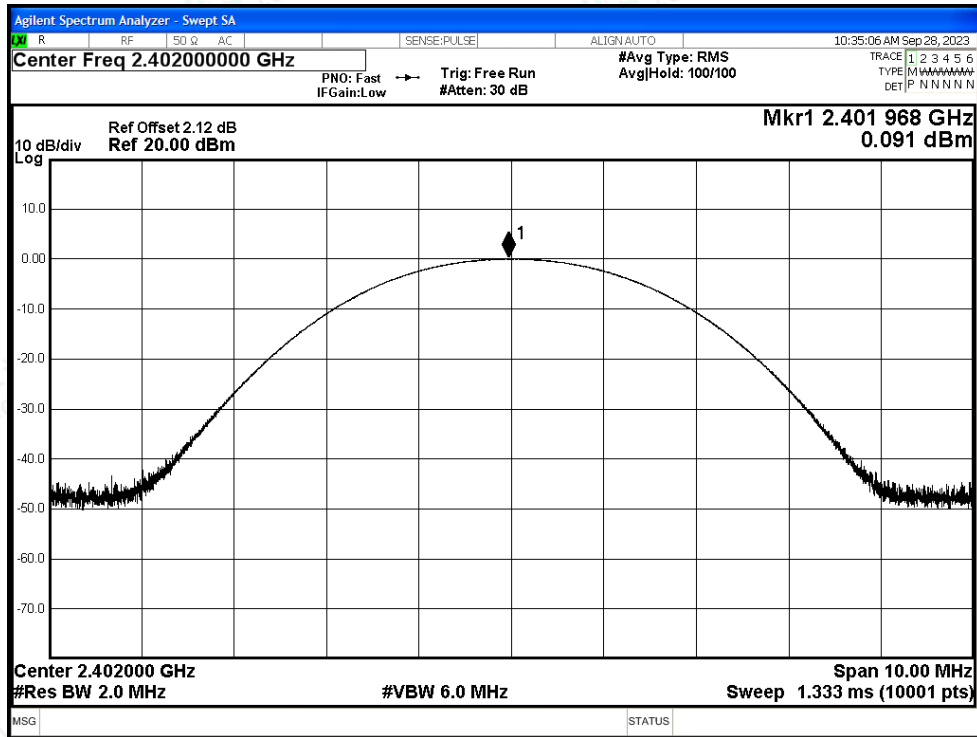


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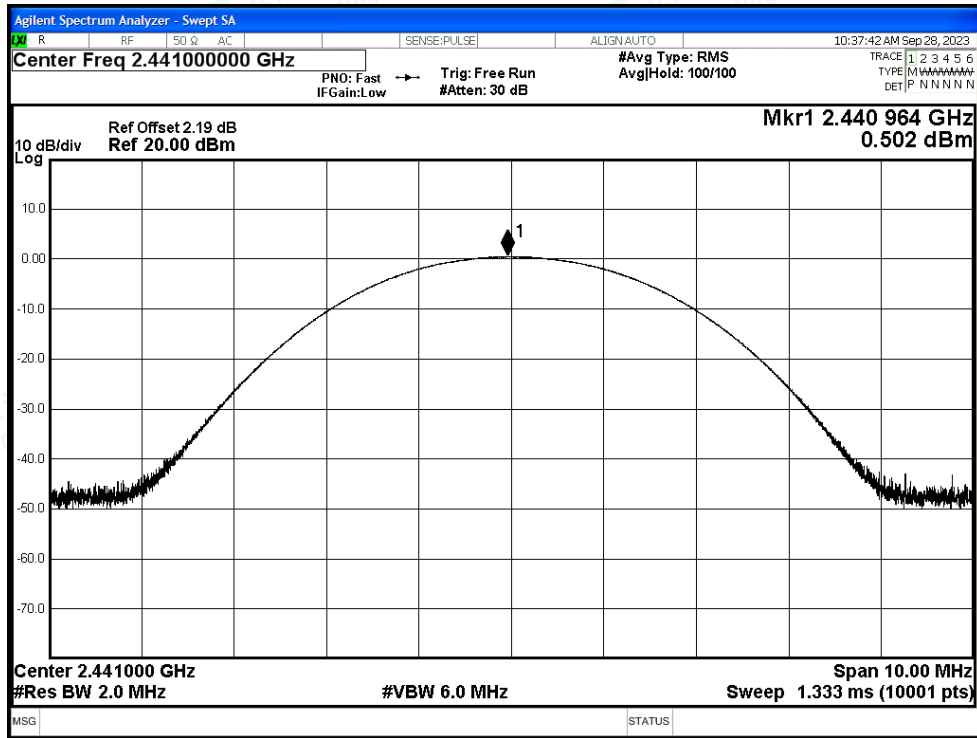


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

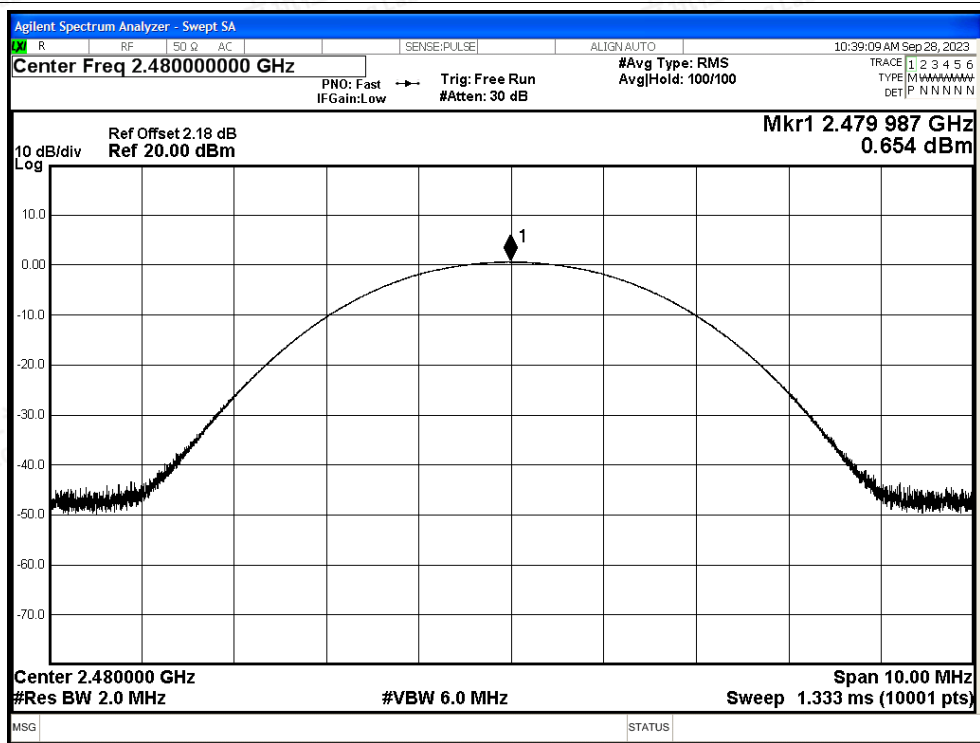


Power NVNT 1-DH5 2441MHz Ant1

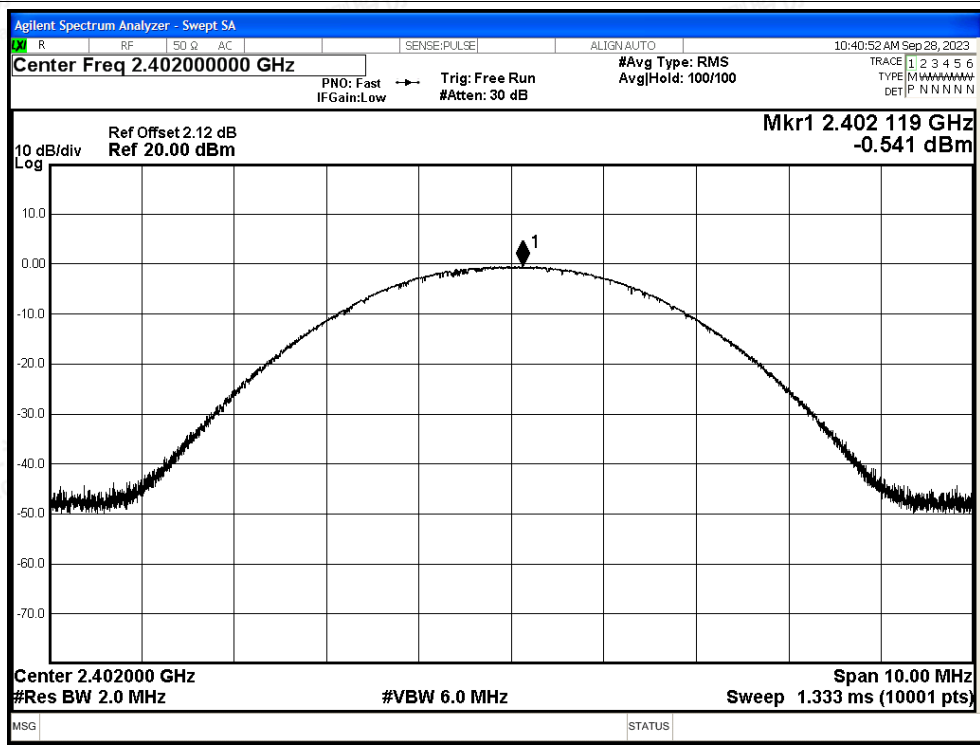




Power NVNT 1-DH5 2480MHz Ant1

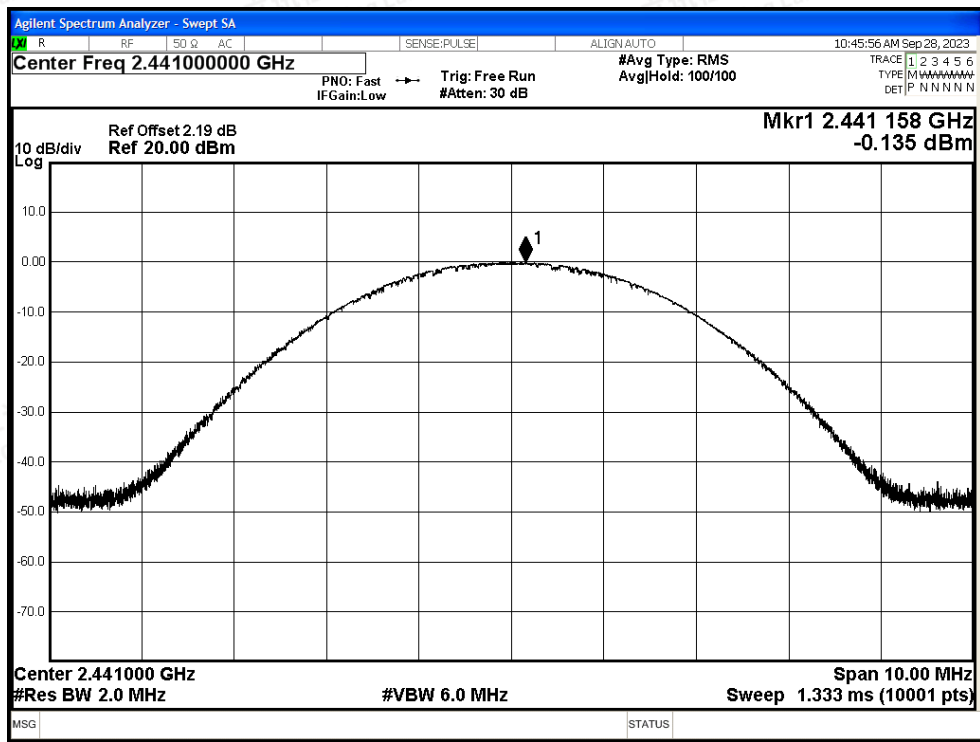


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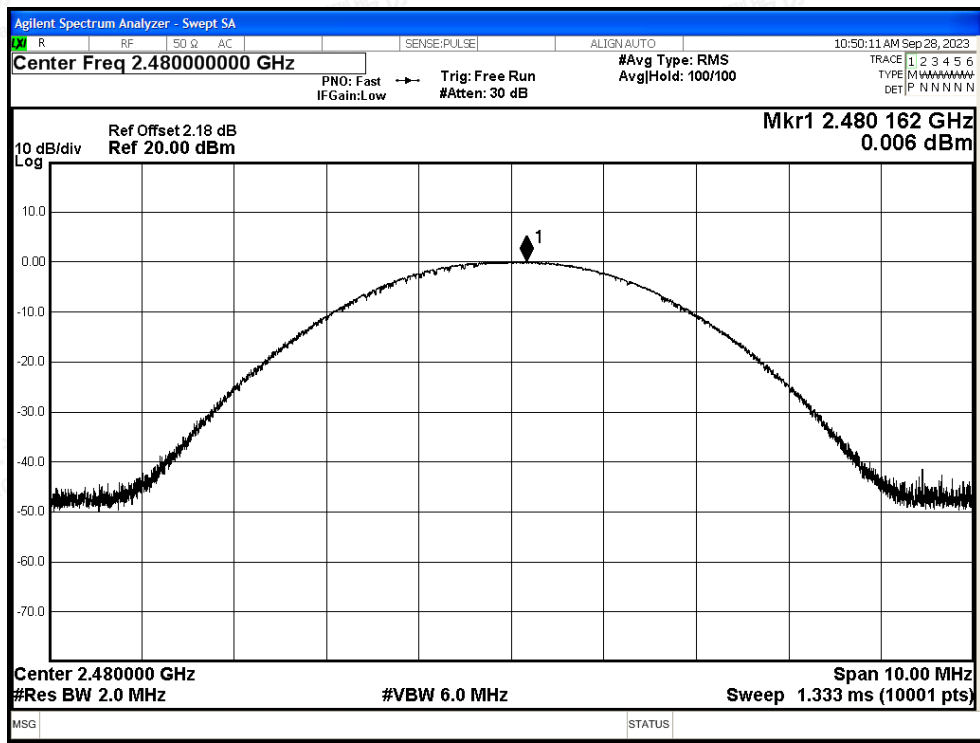




Power NVNT 2-DH5 2441MHz Ant1

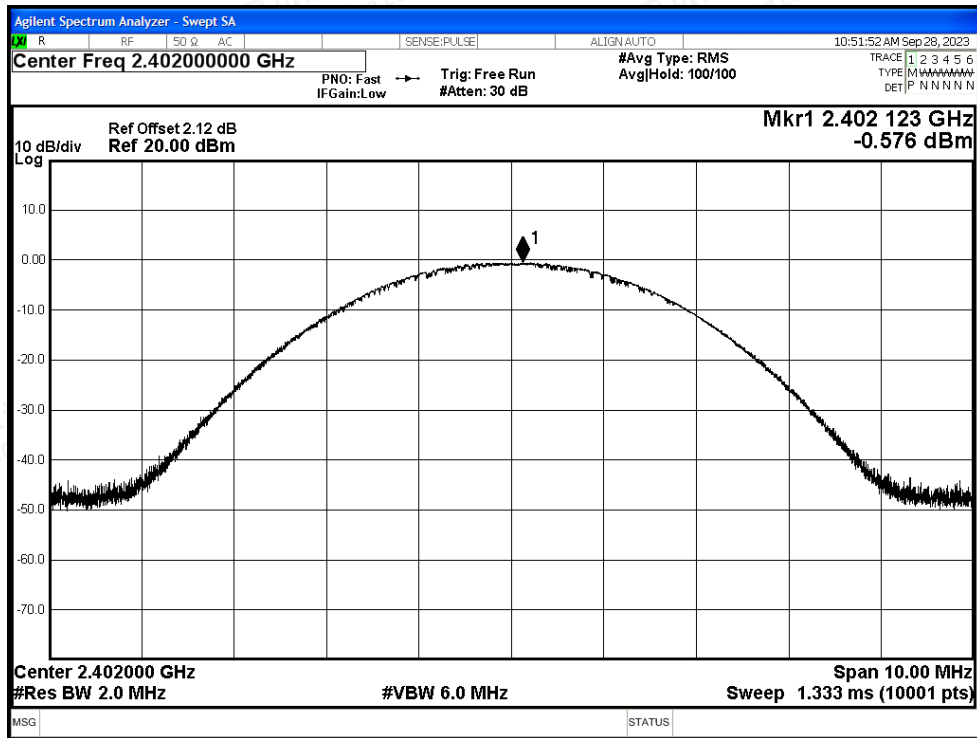


Power NVNT 2-DH5 2480MHz Ant1

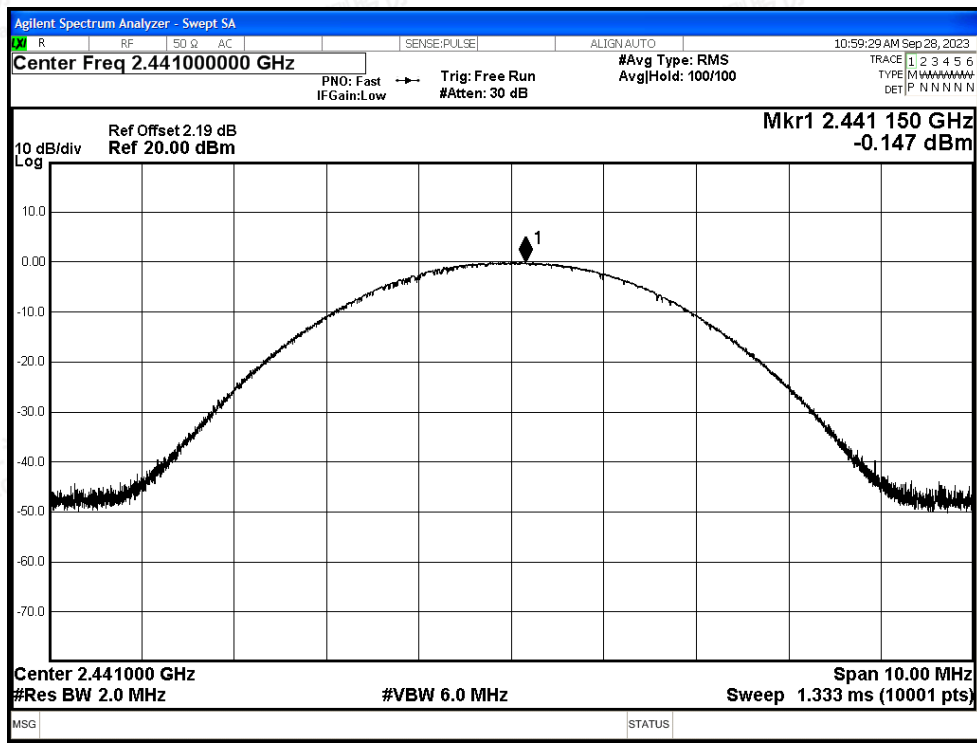


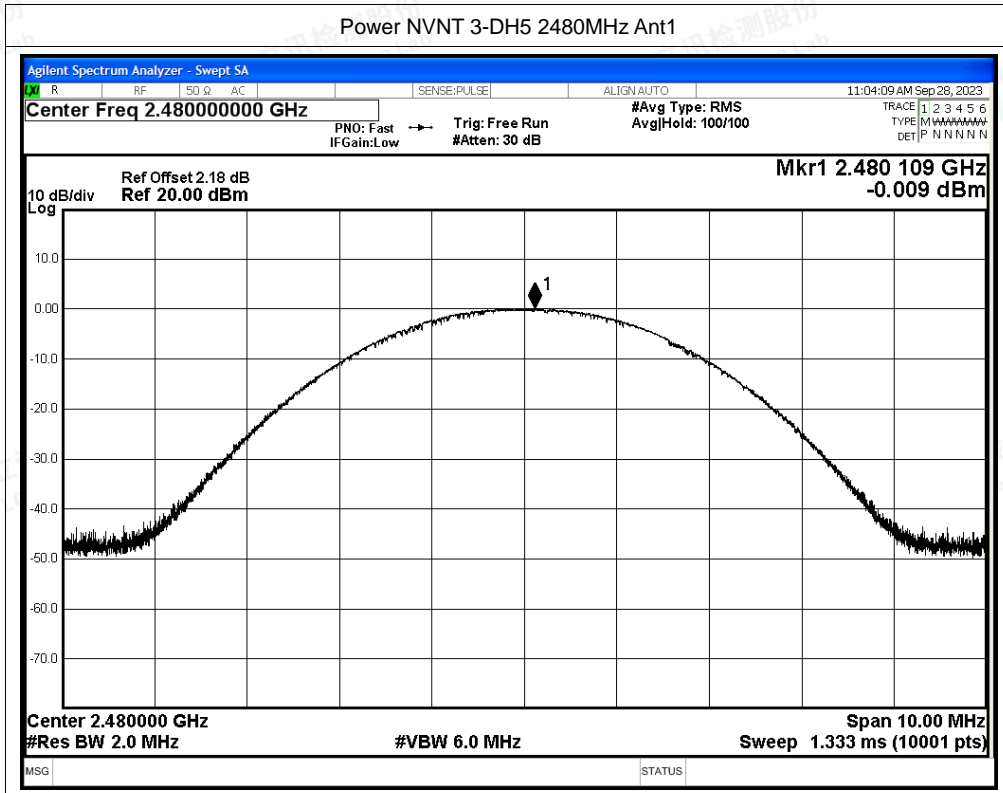


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.016	2403.014	0.998	0.559	Pass
NVNT	2-DH5	Ant1	2402.018	2402.988	0.97	0.857	Pass
NVNT	3-DH5	Ant1	2402.154	2403.16	1.006	0.857	Pass

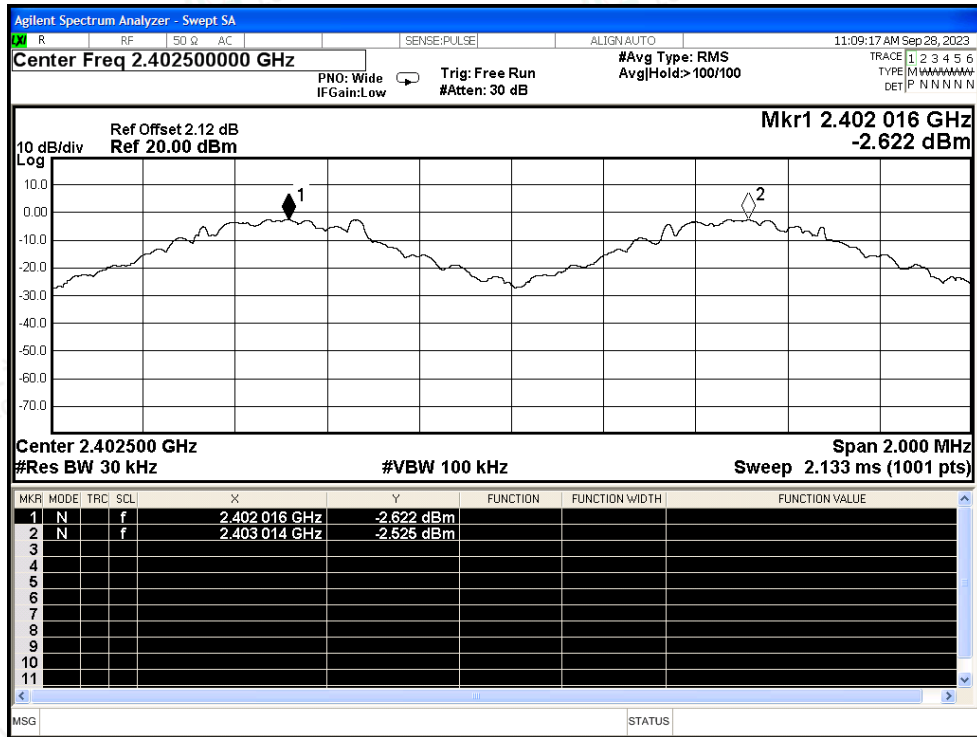


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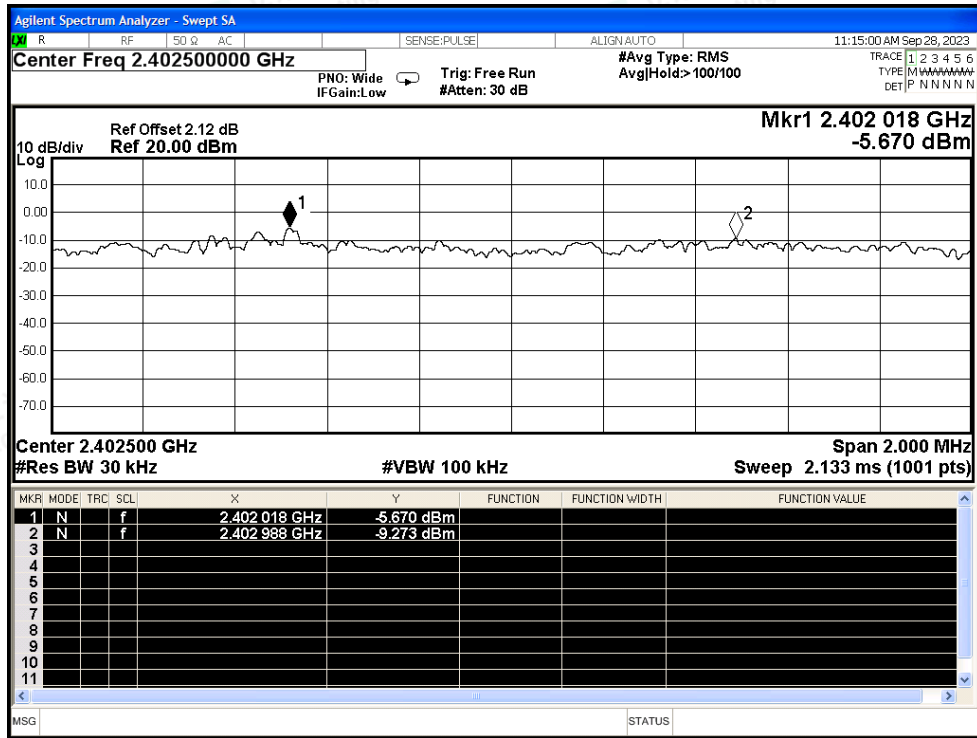


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

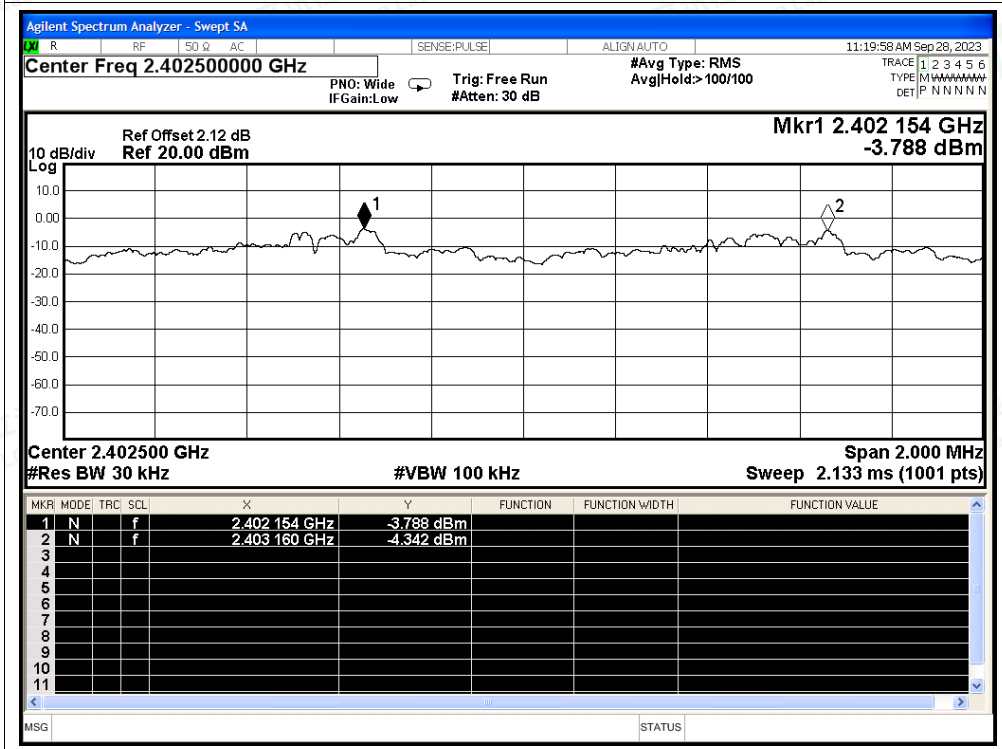


CFS NVNT 2-DH5 2402MHz Ant1





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	2.881	316.91	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	285.615	99	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	280.039	97	31600	400	Pass

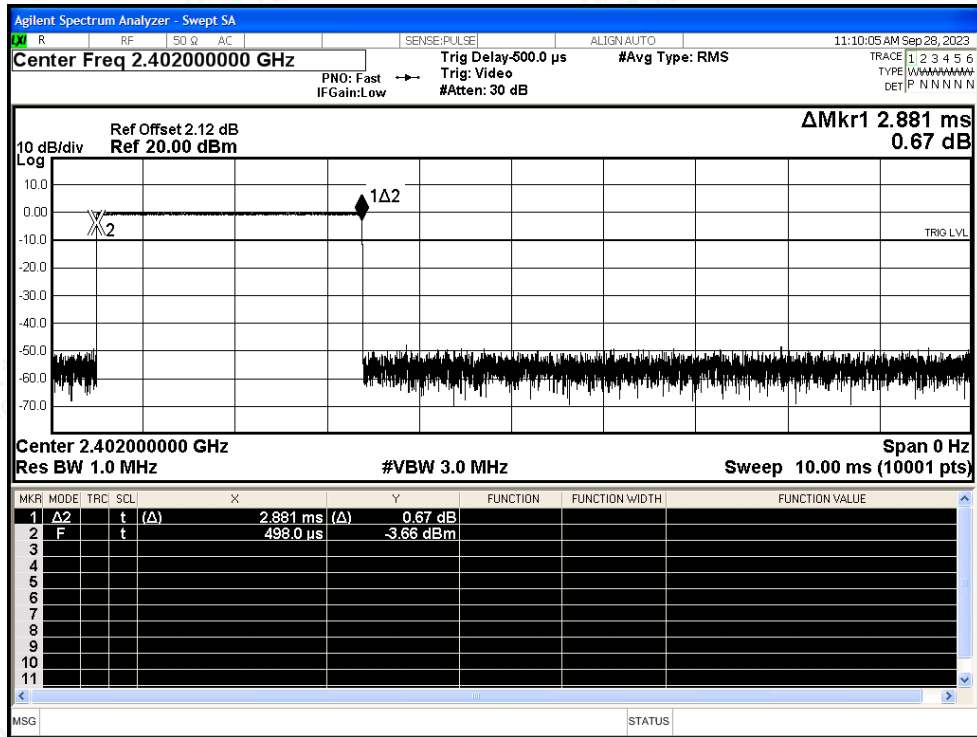


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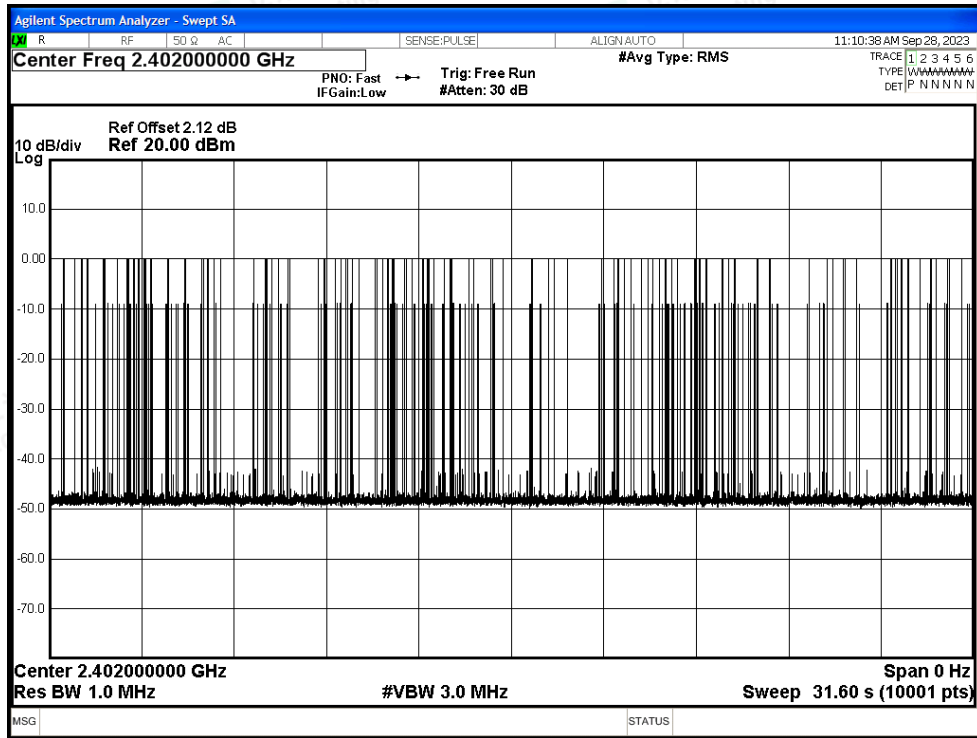


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

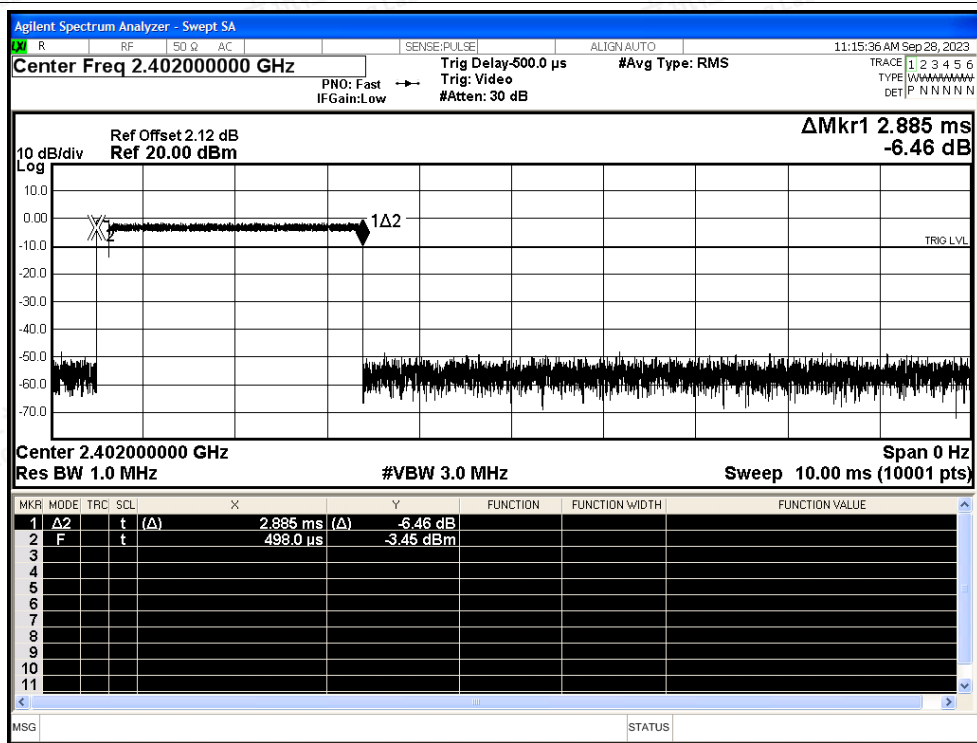


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

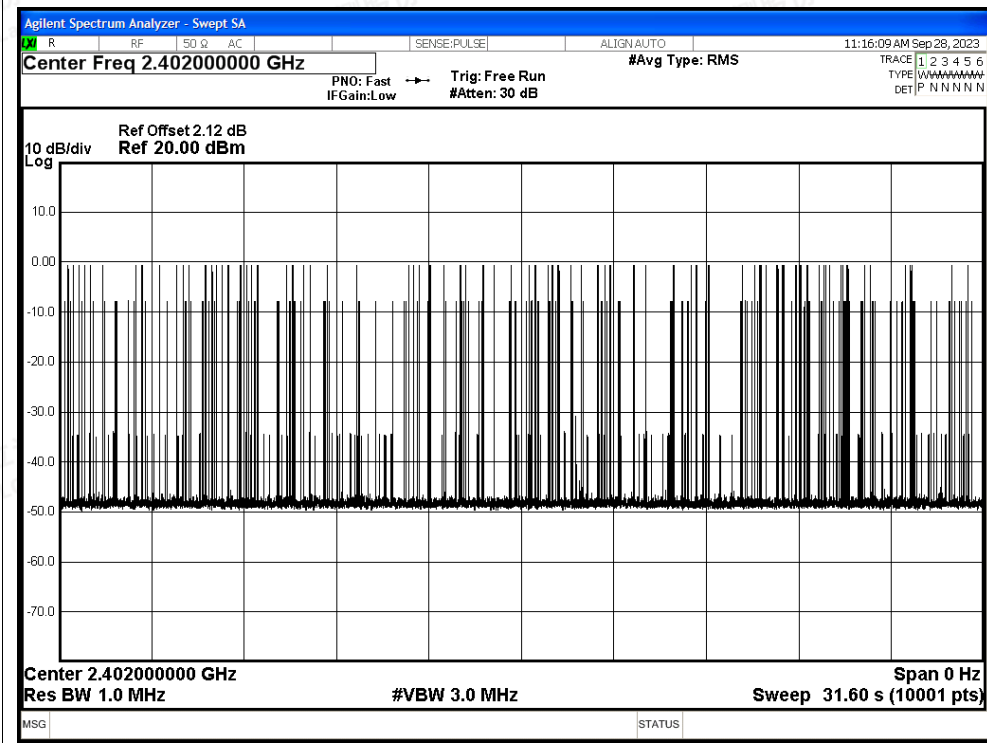




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

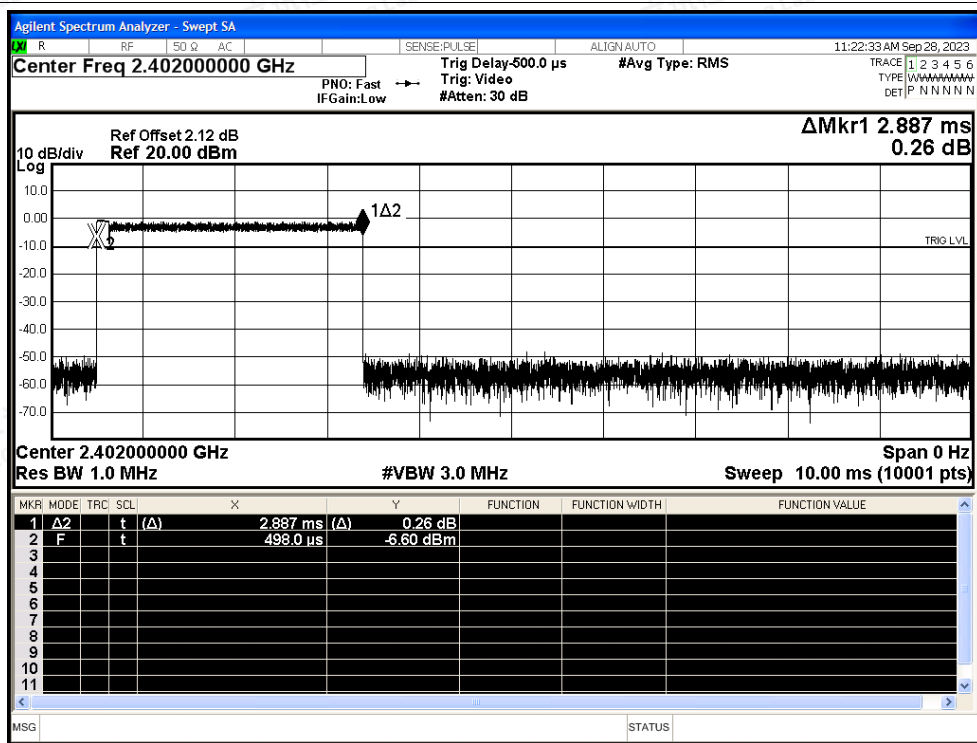


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

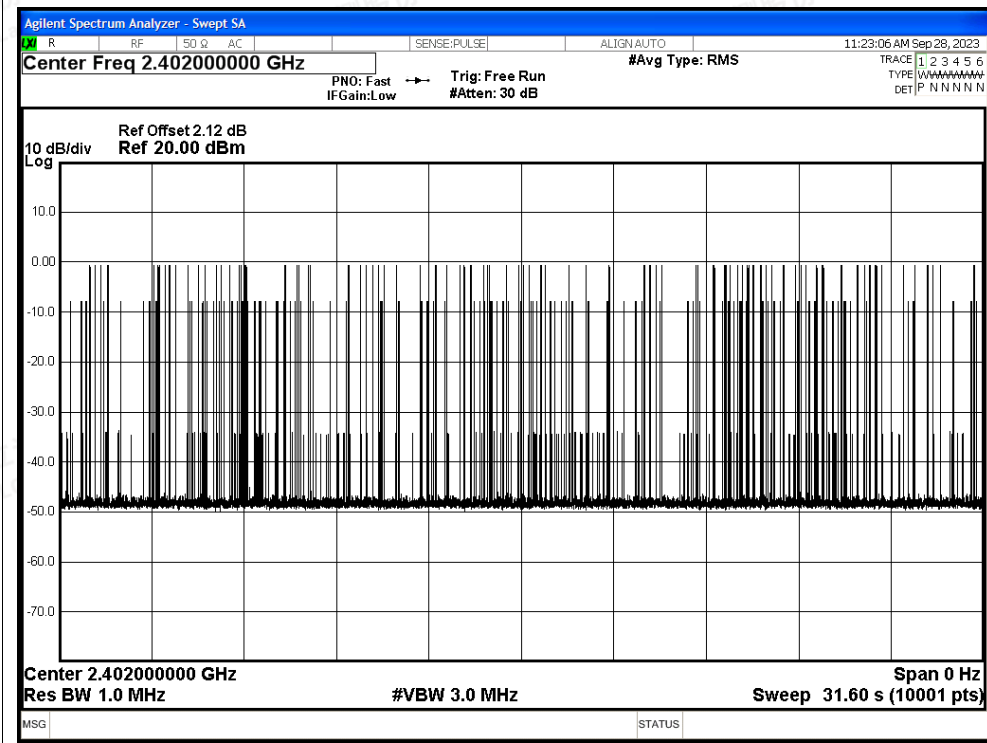




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

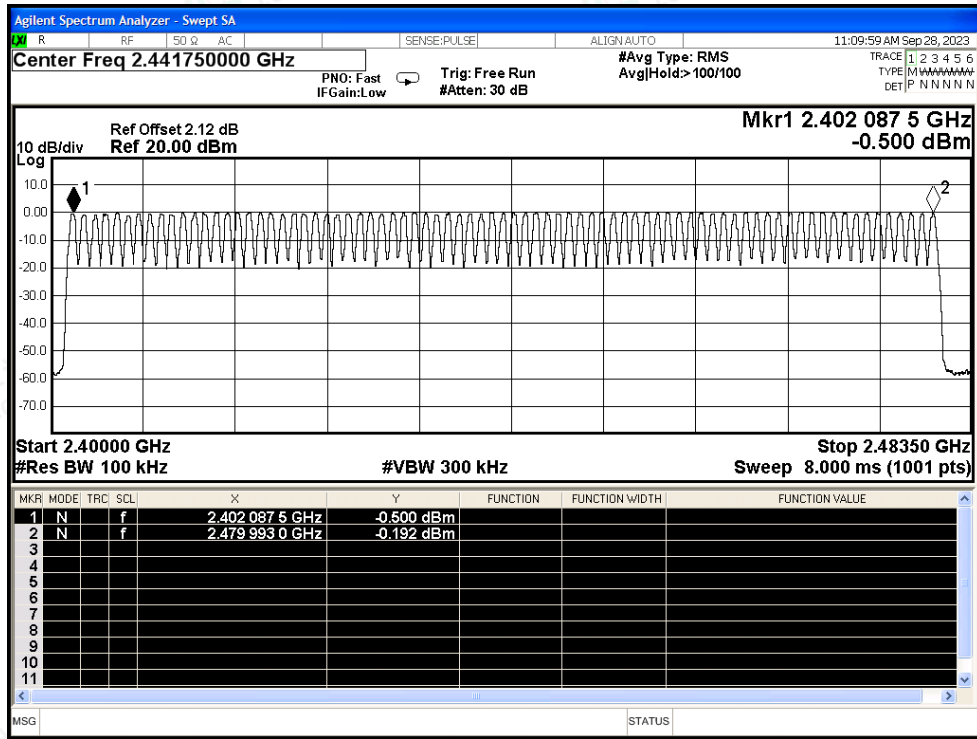
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



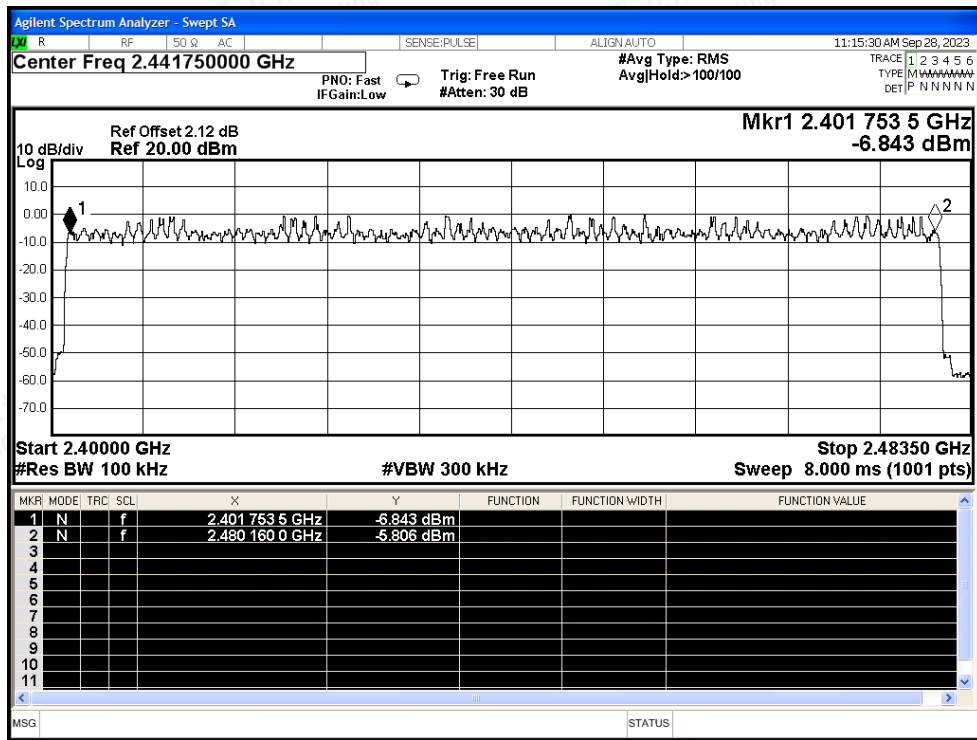


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

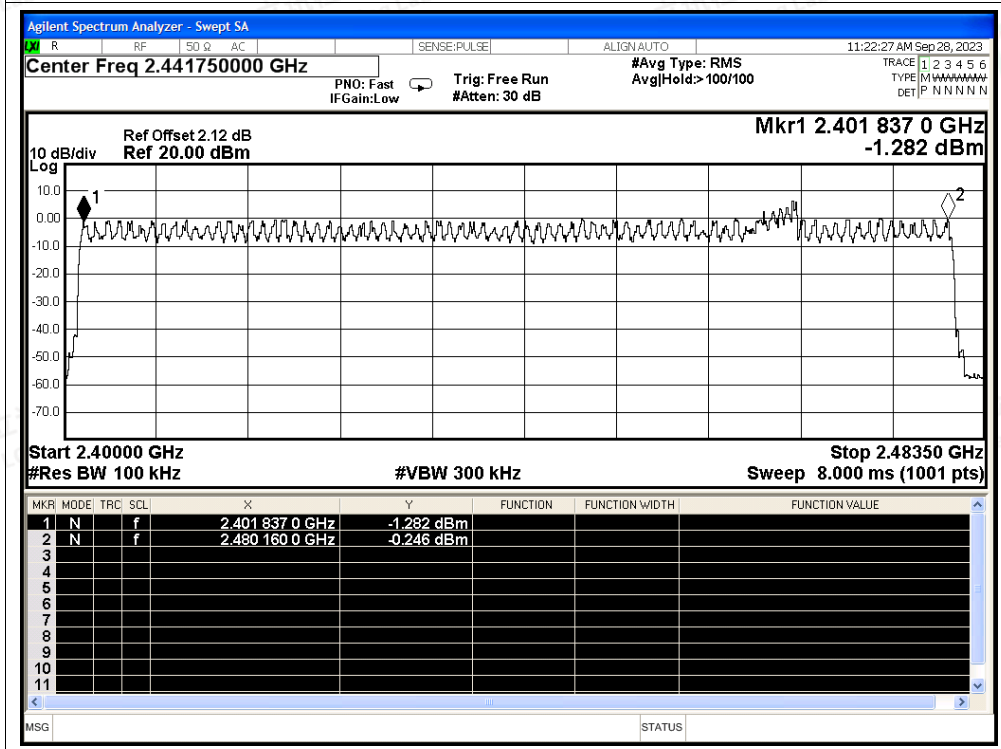


Hopping No. NVNT 2-DH5 2402MHz Ant1





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	-56.41	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.94	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.85	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.26	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.85	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.72	-20	Pass

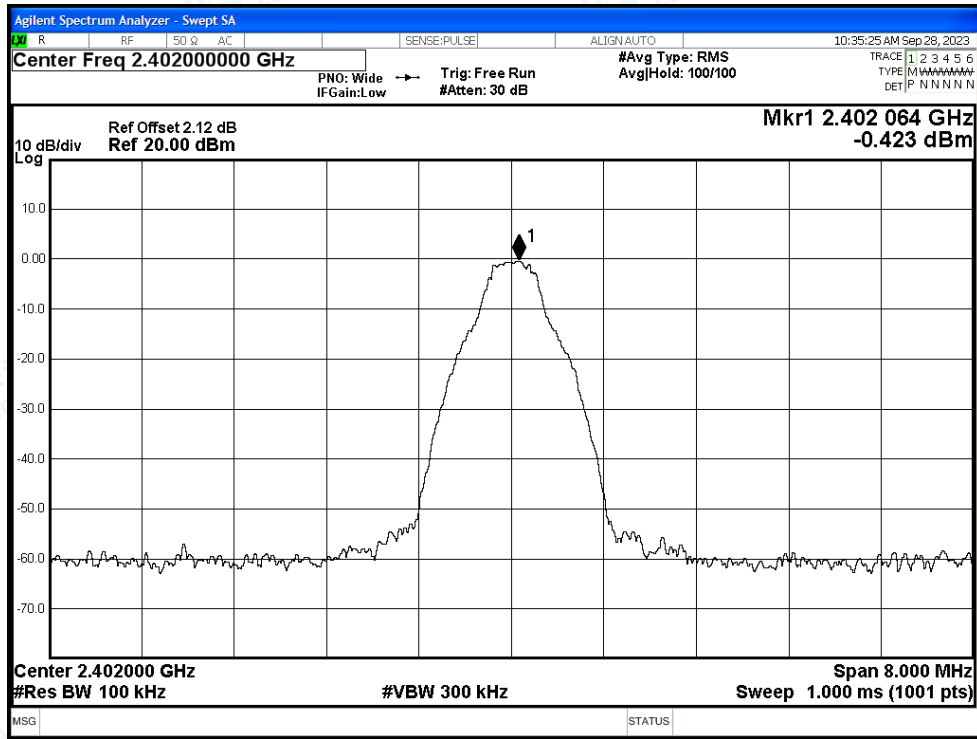


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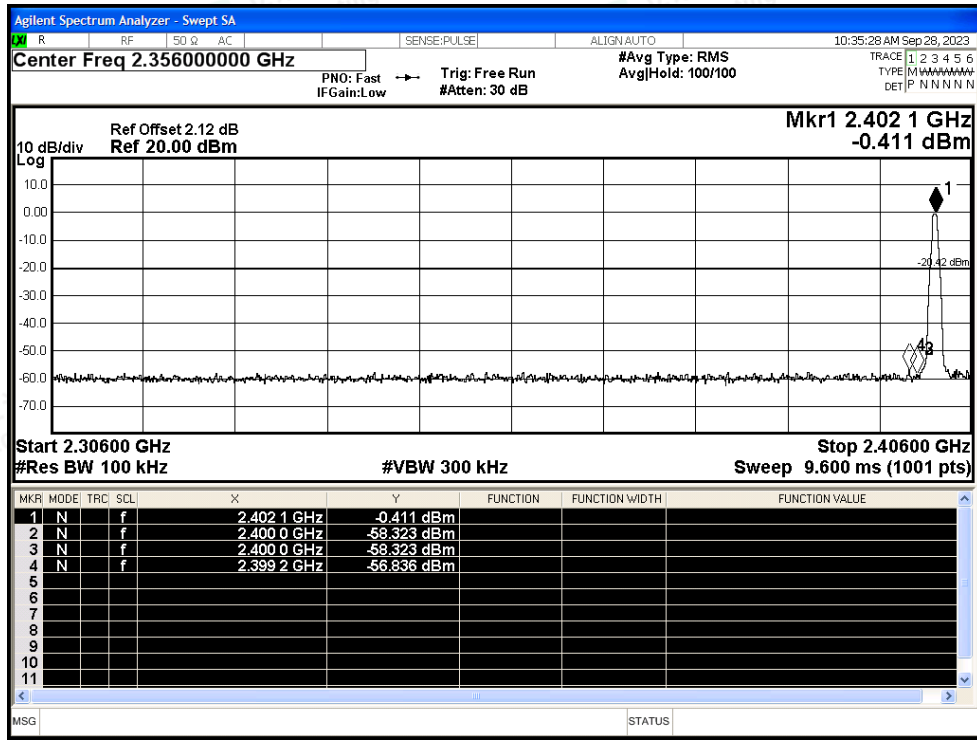


Test Graphs

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

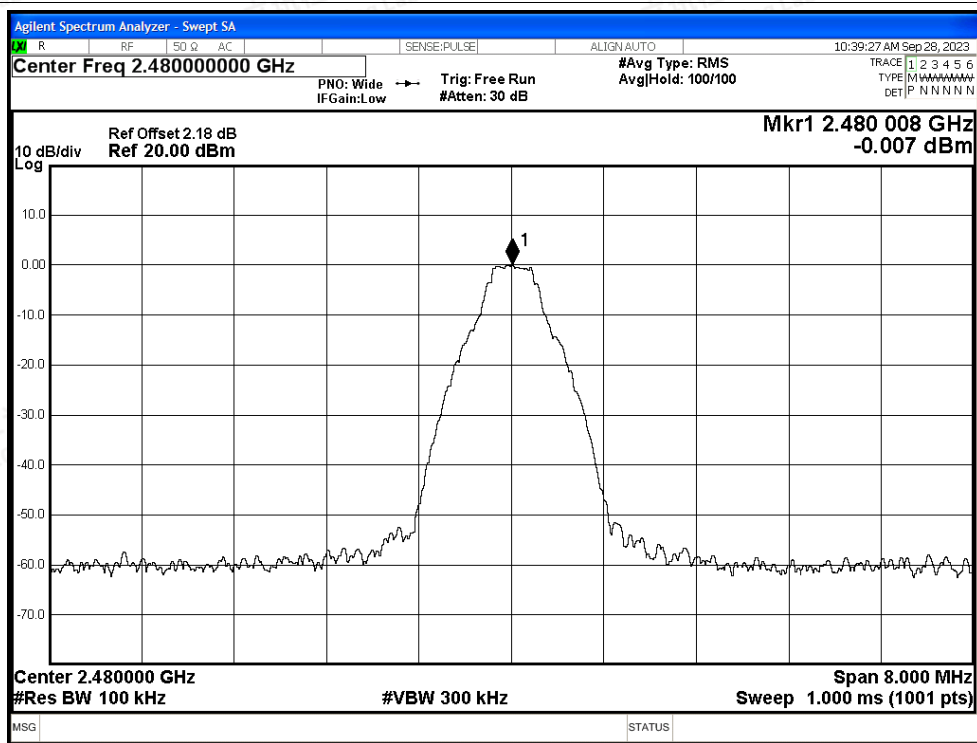


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

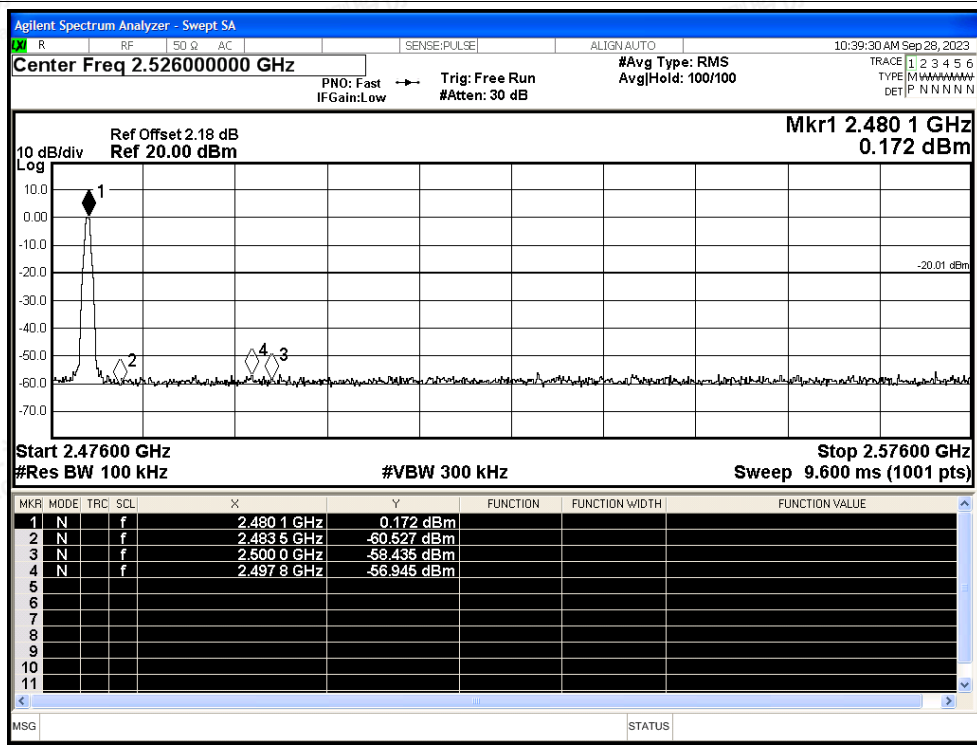




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

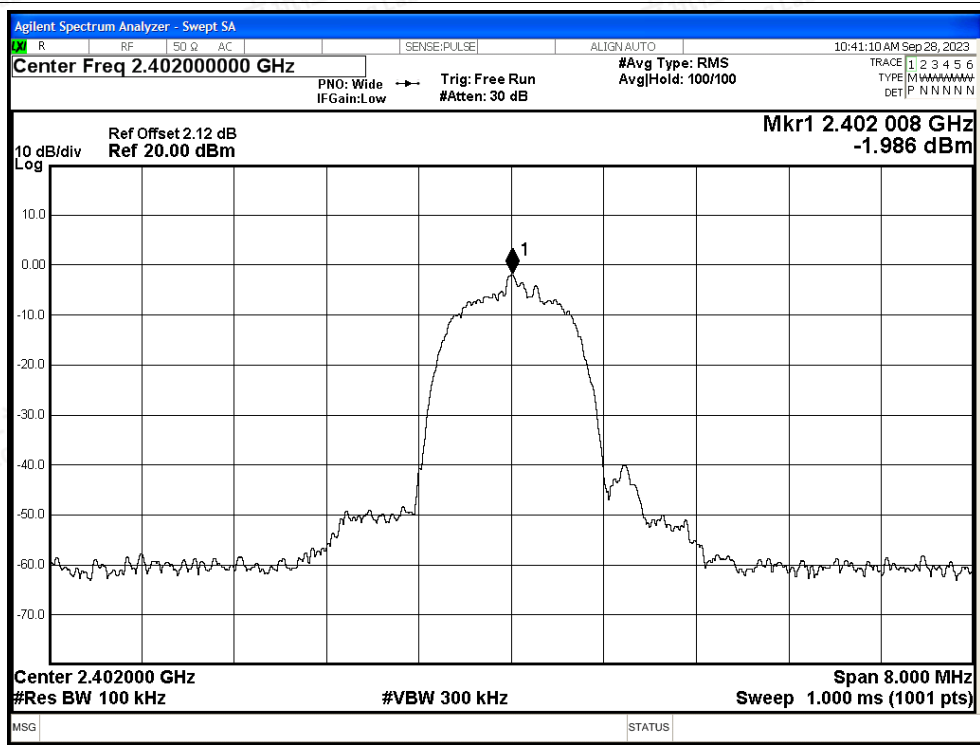


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

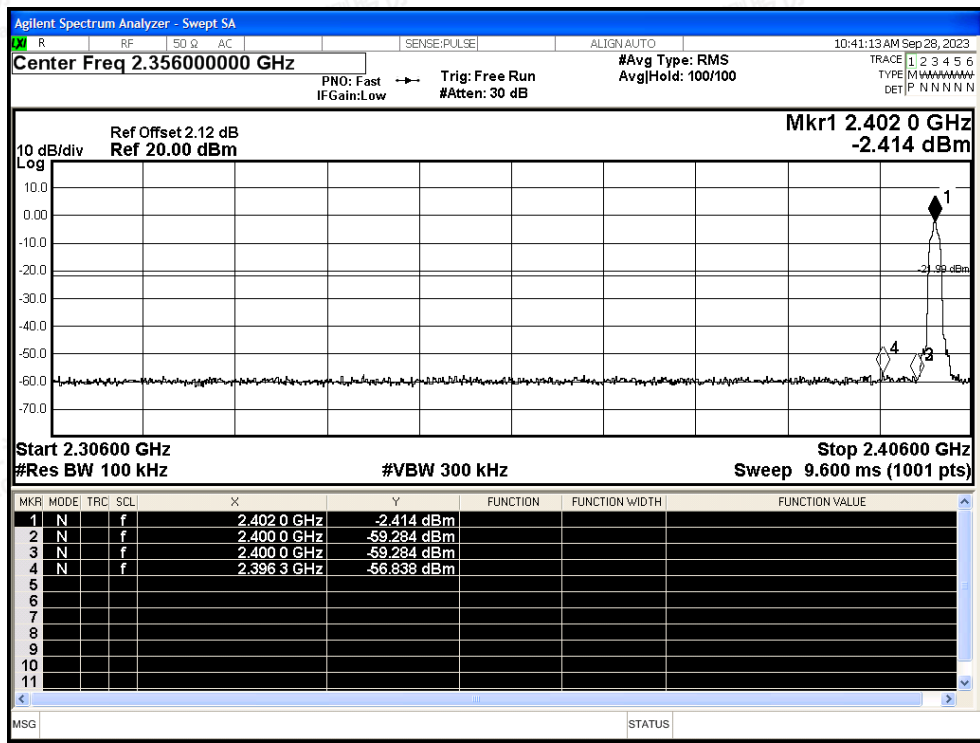




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

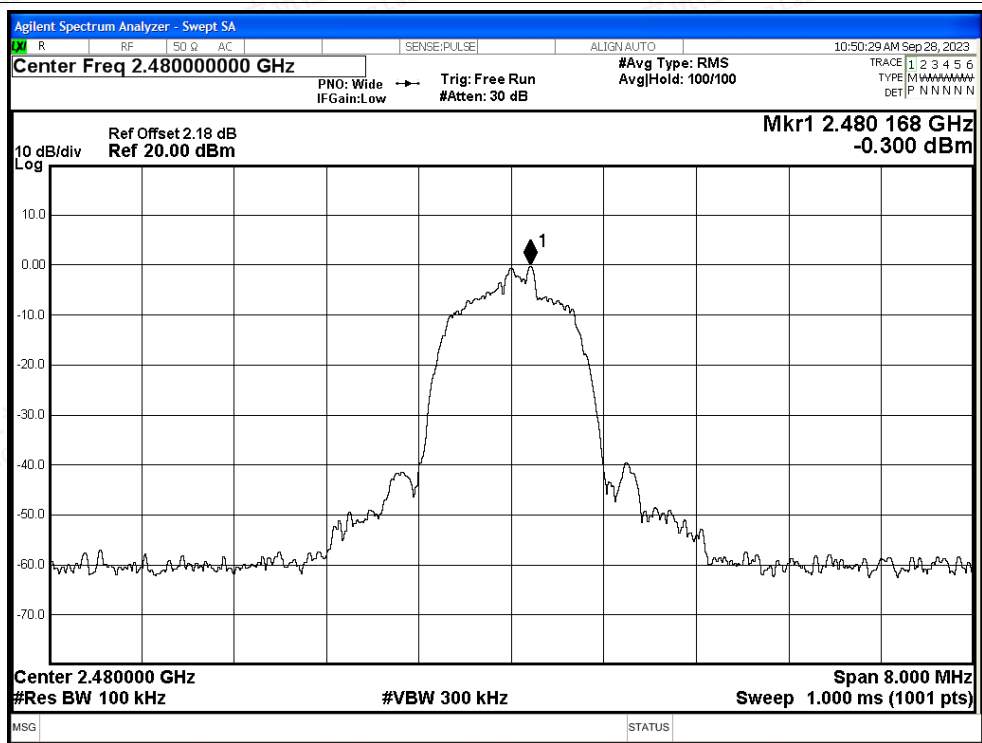


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

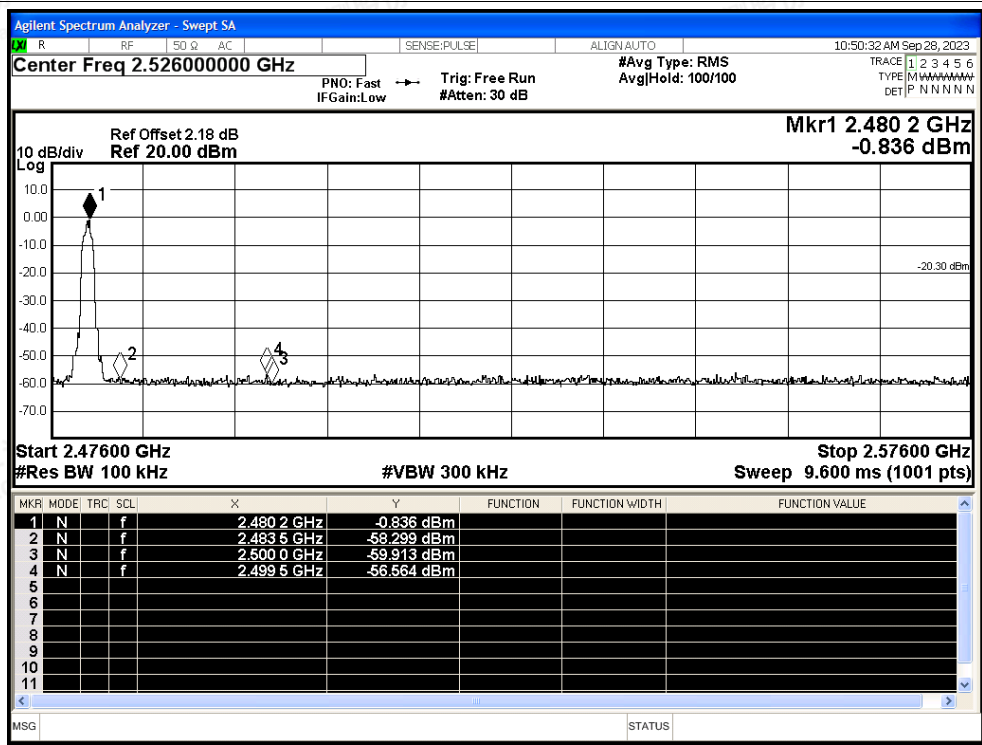




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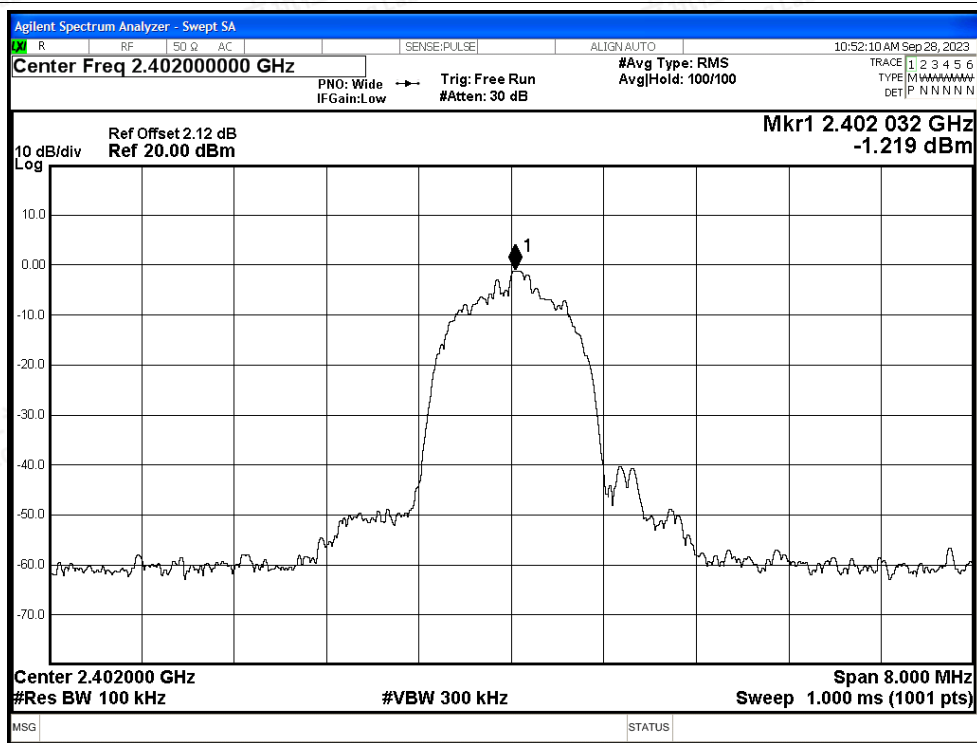


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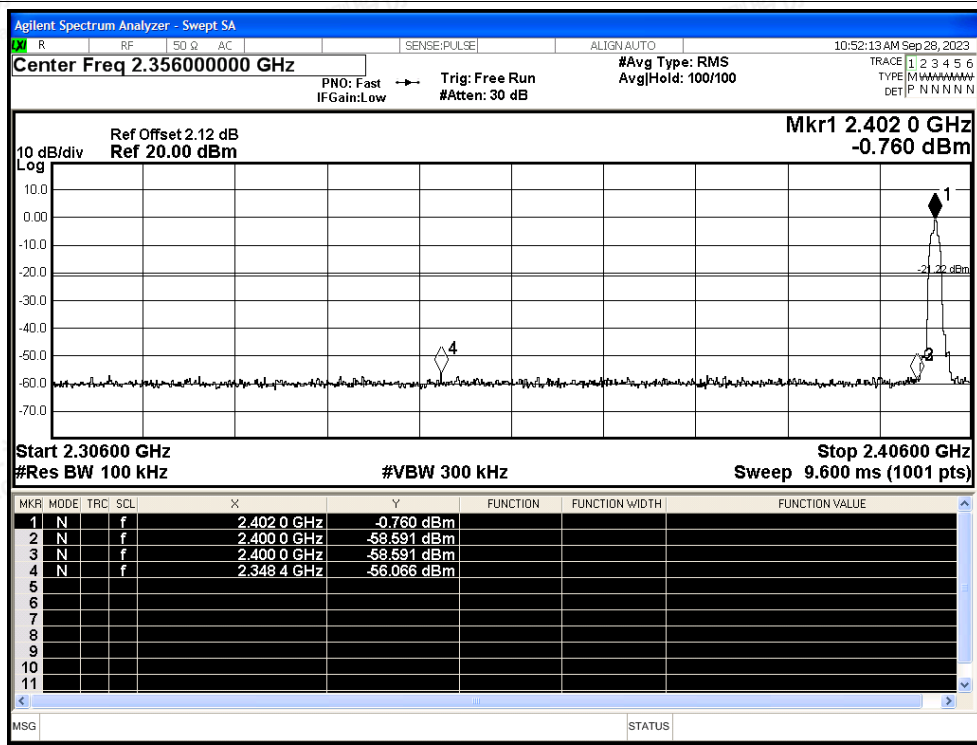




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

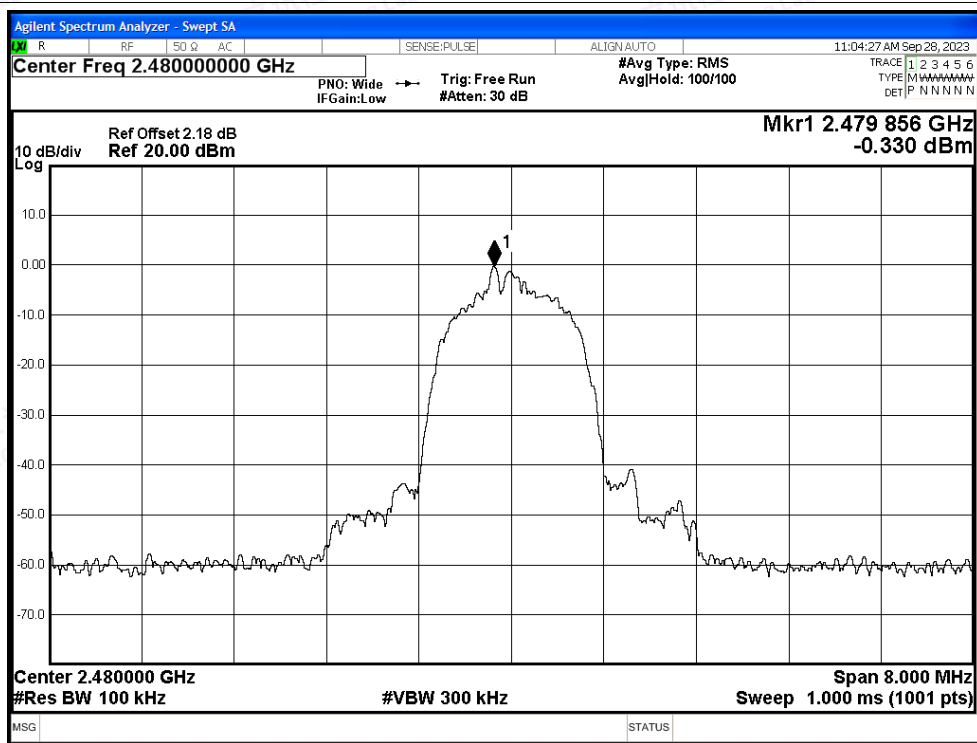


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

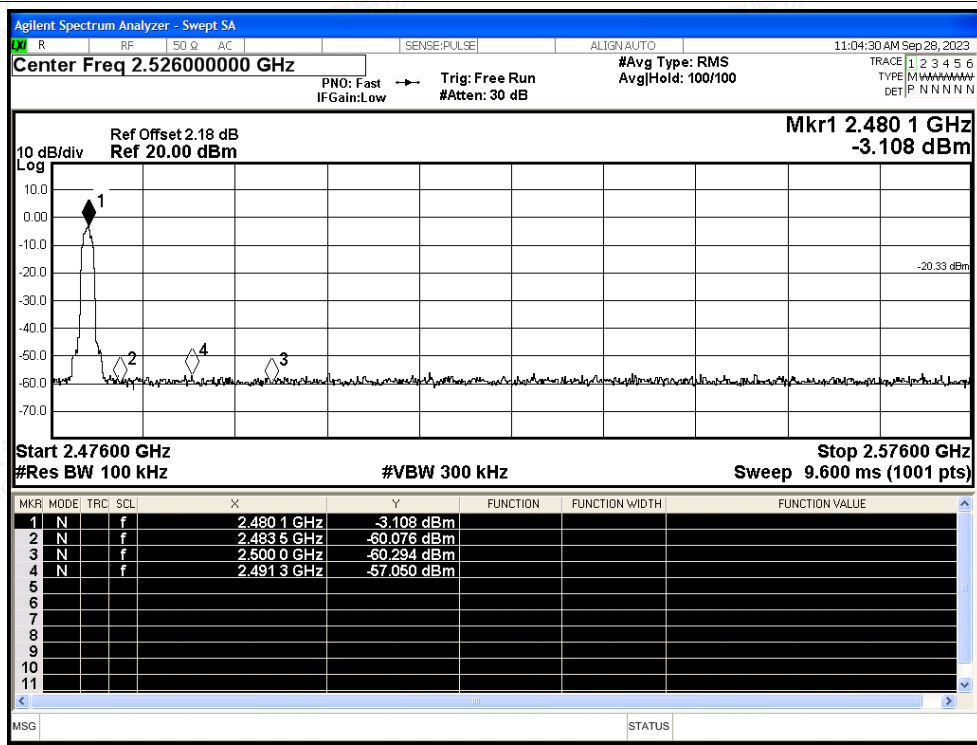




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-55.77	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.95	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.84	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.72	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.27	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.06	-20	Pass

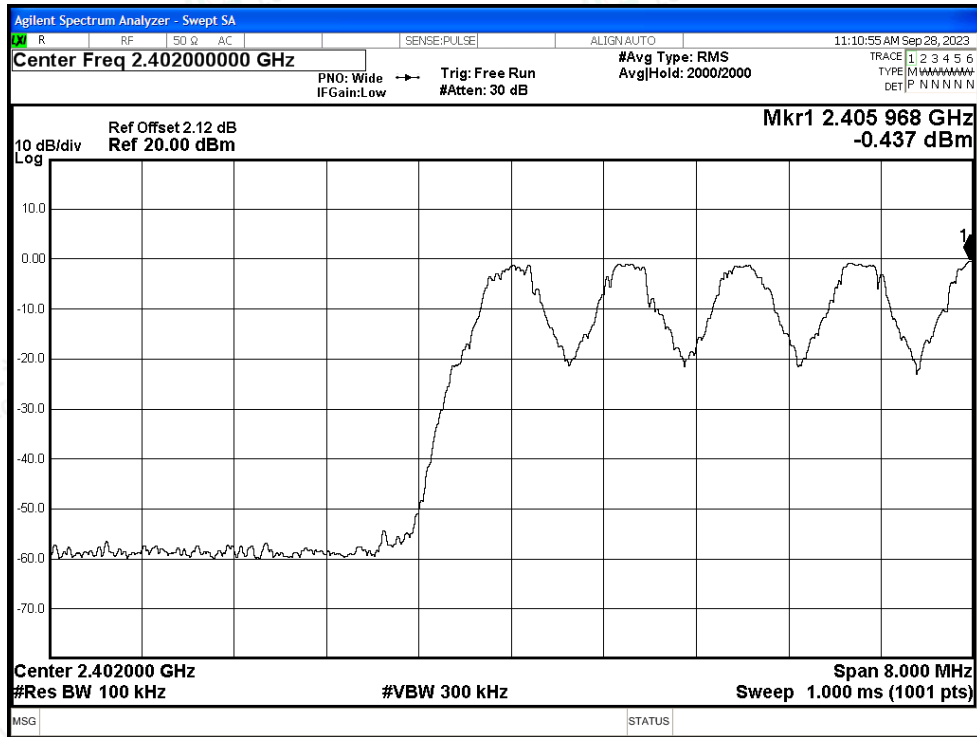


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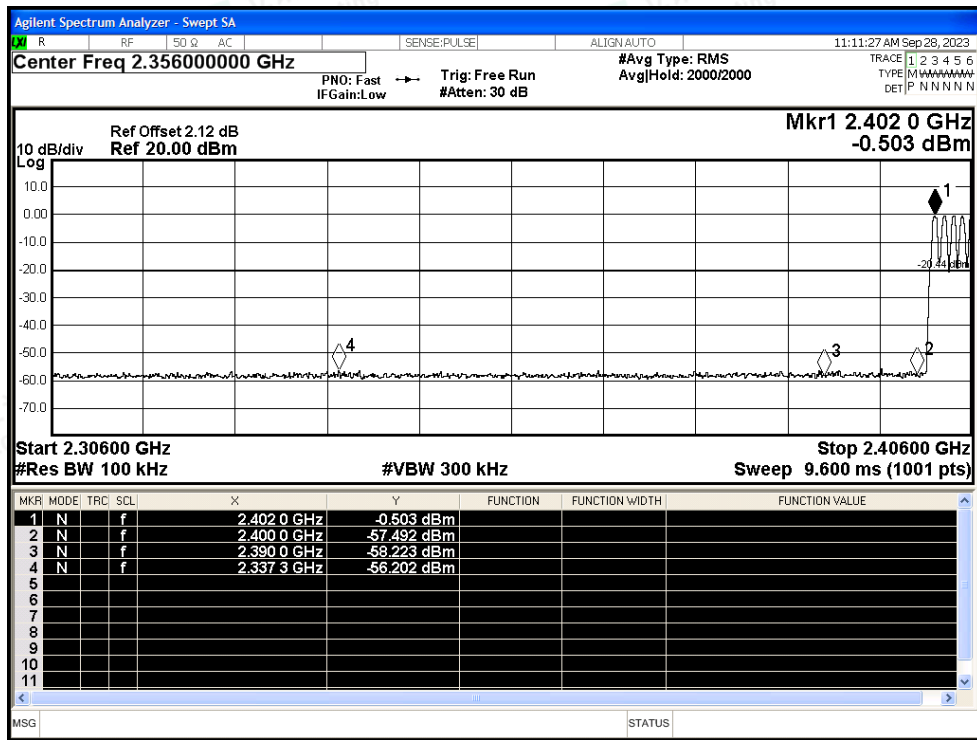


Test Graphs

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

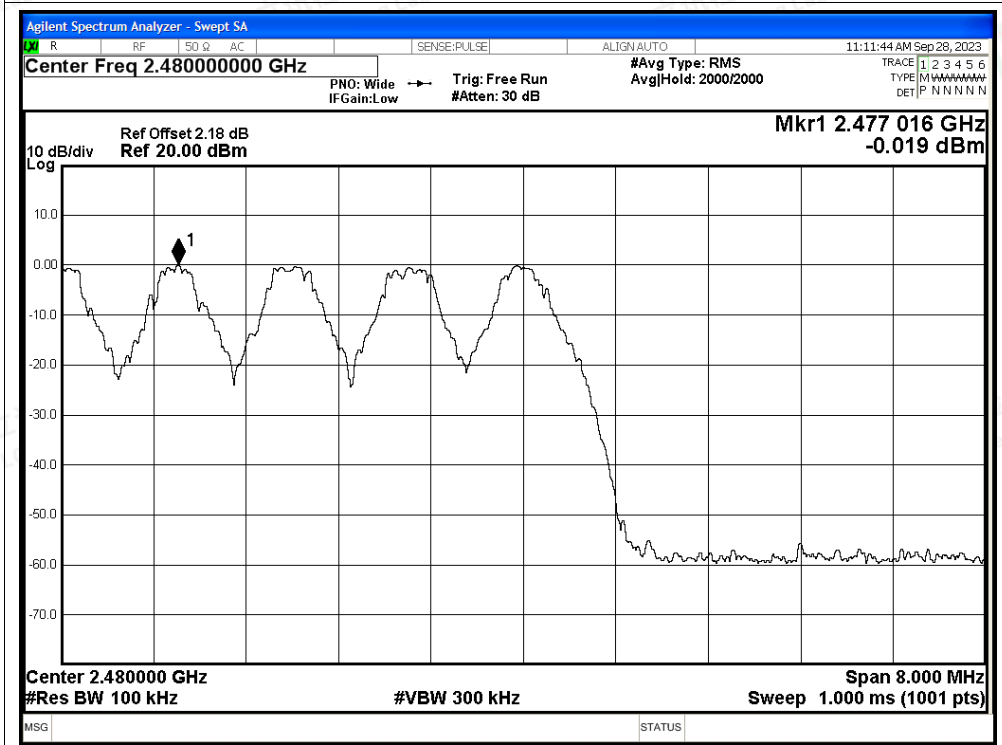


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

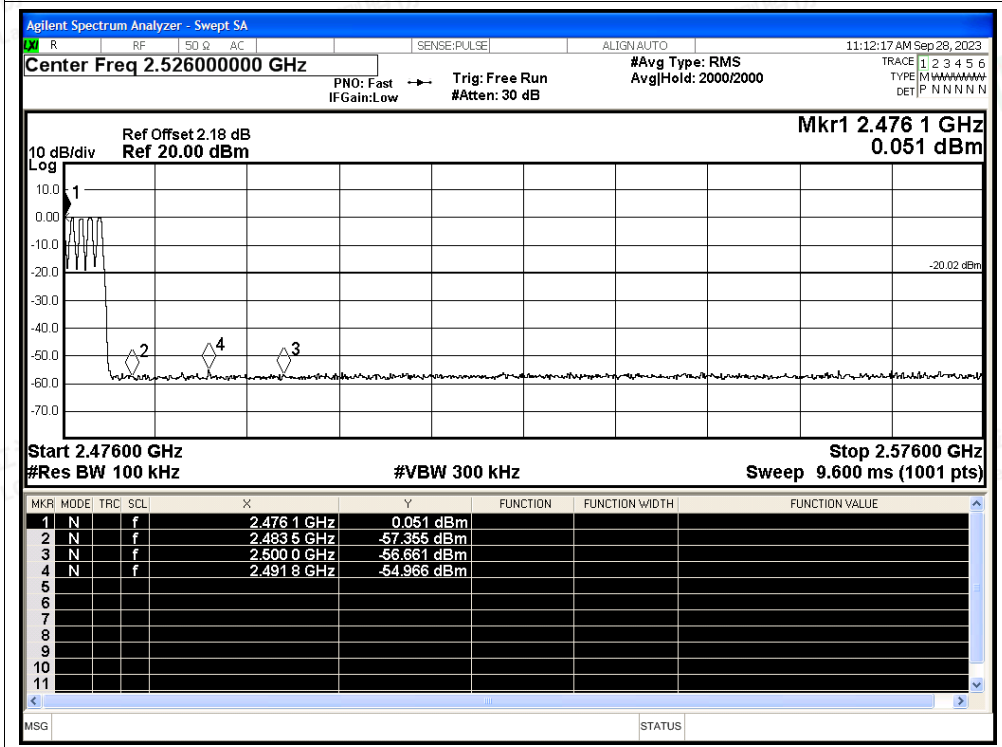




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

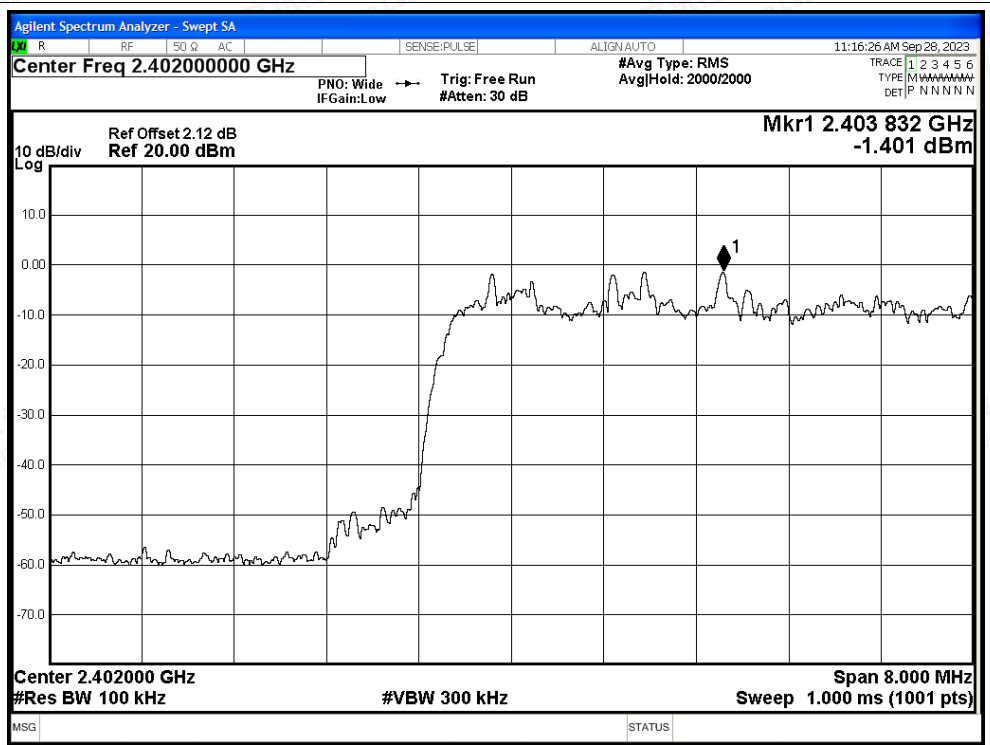


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

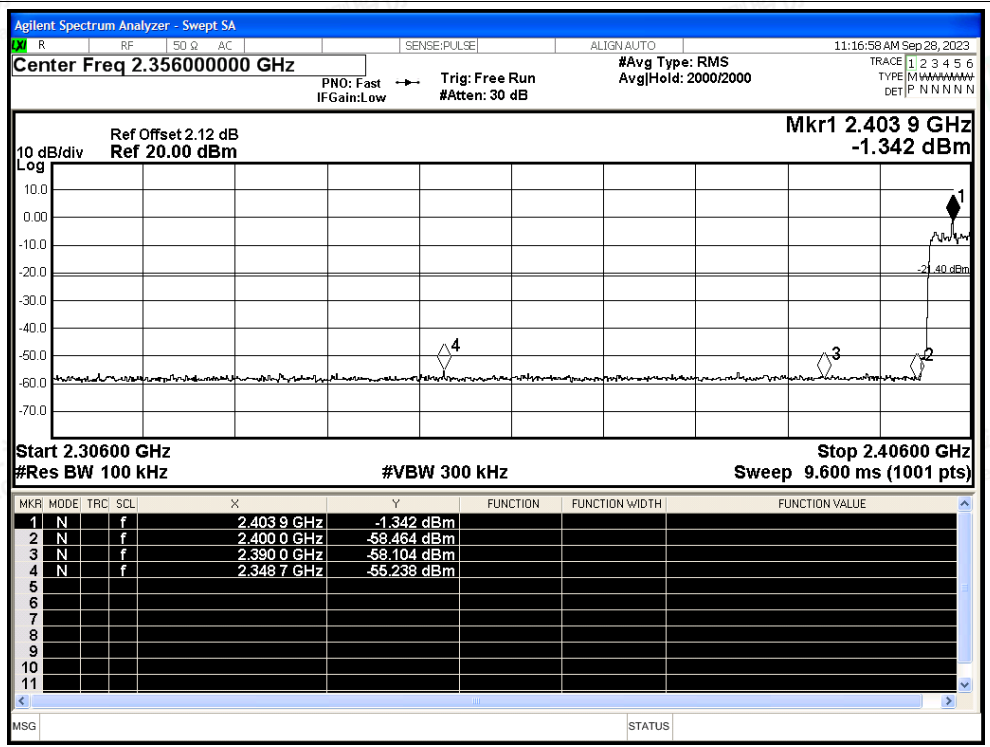




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

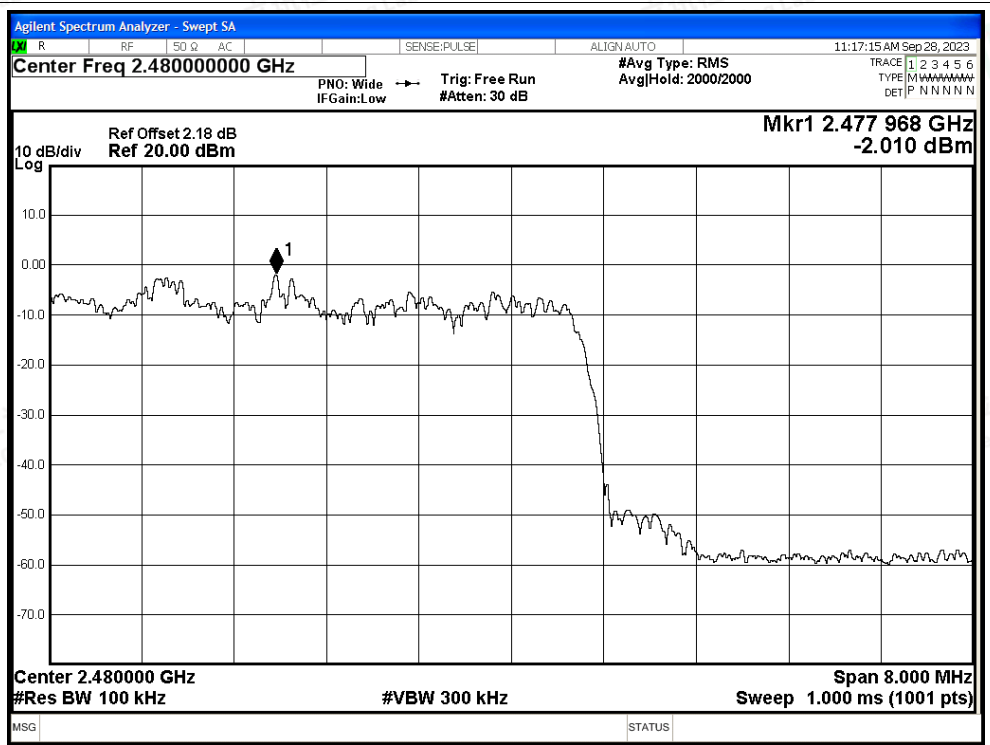


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

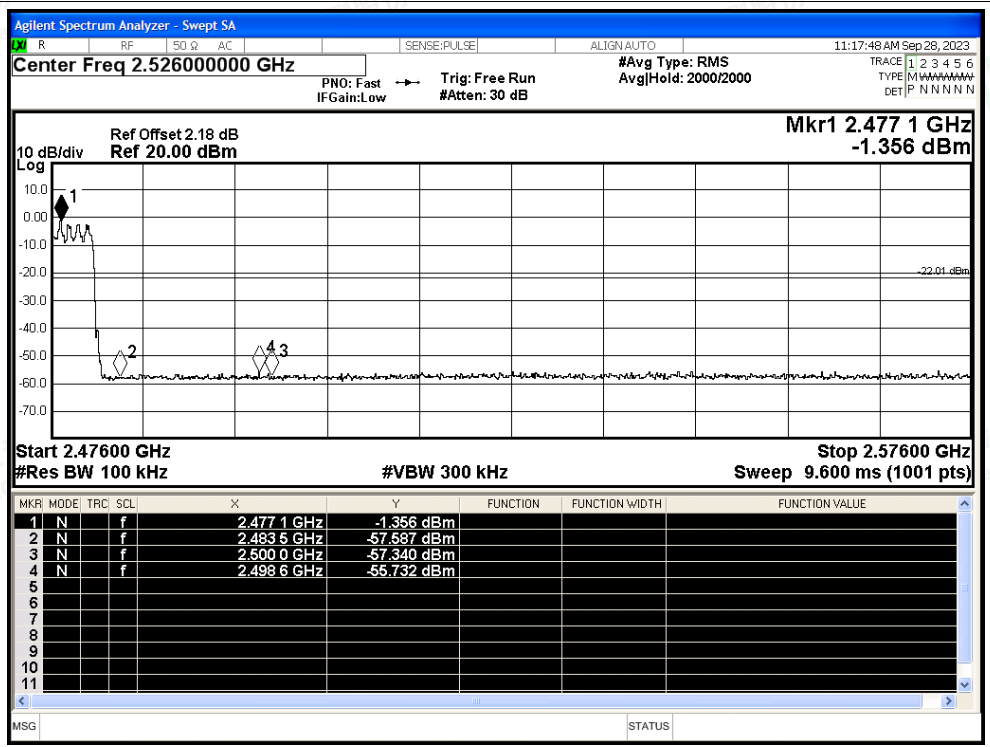




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

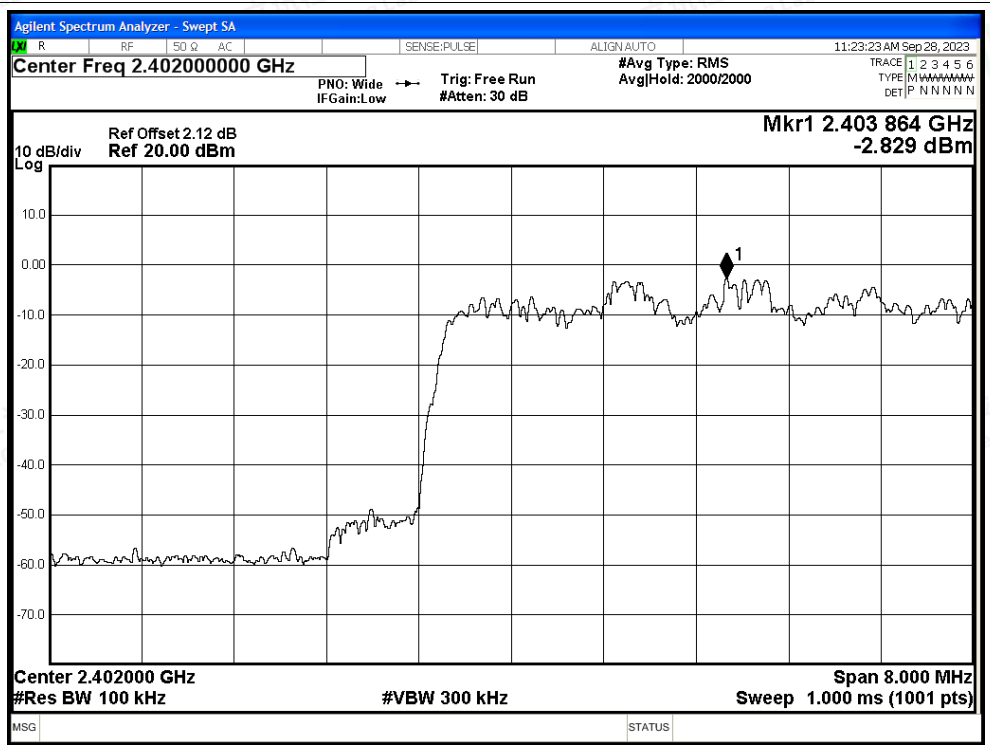


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

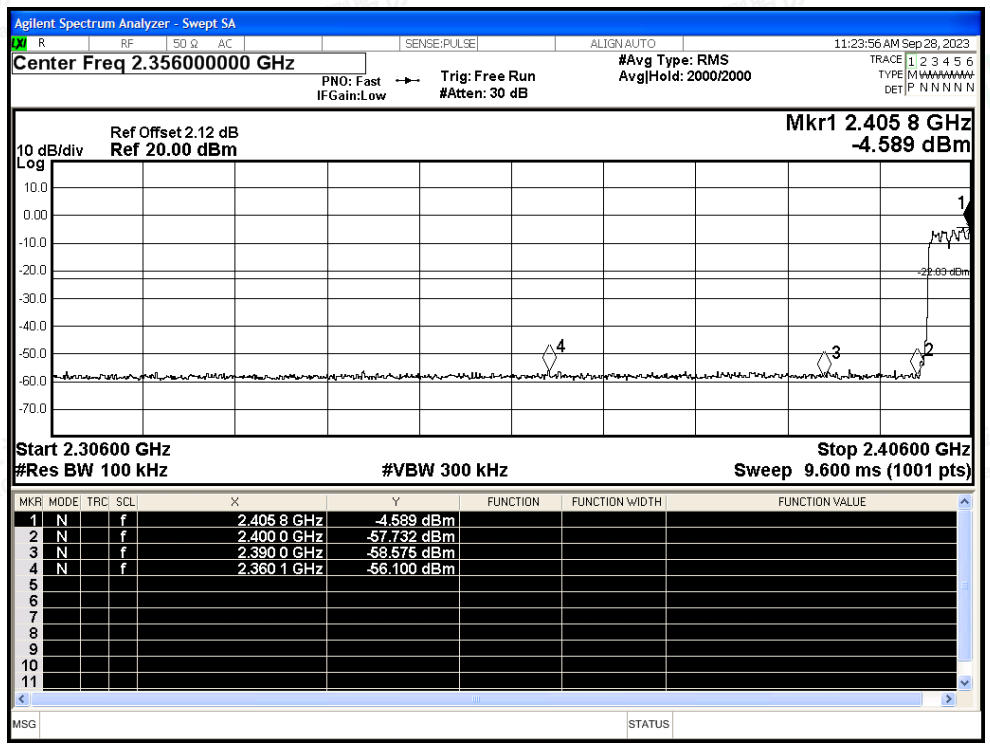




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

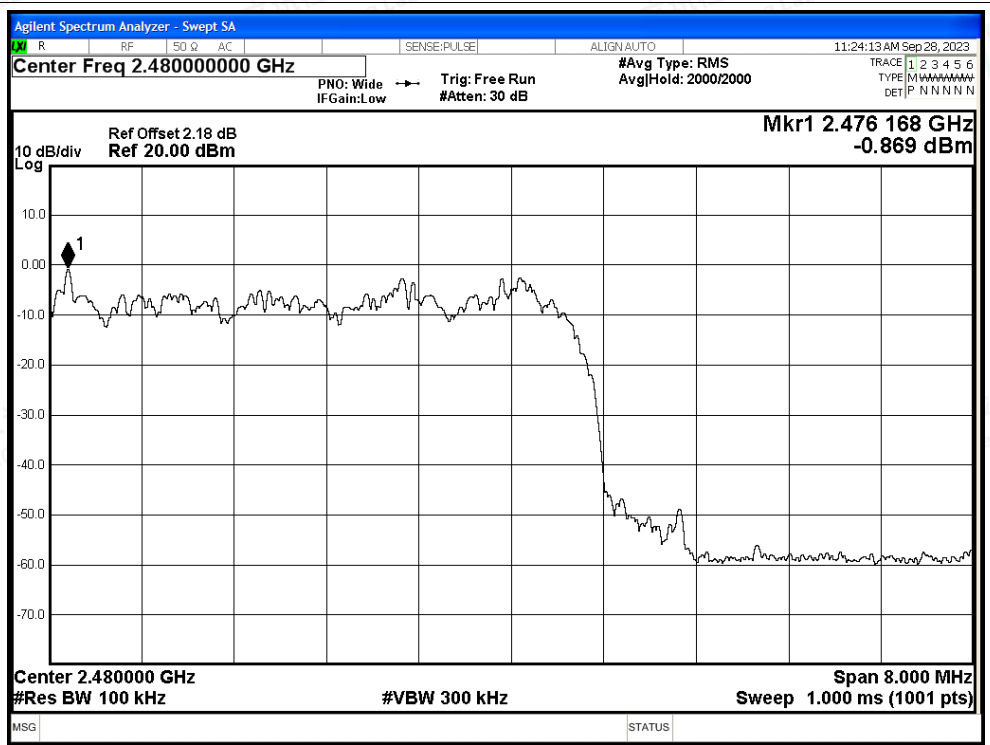


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

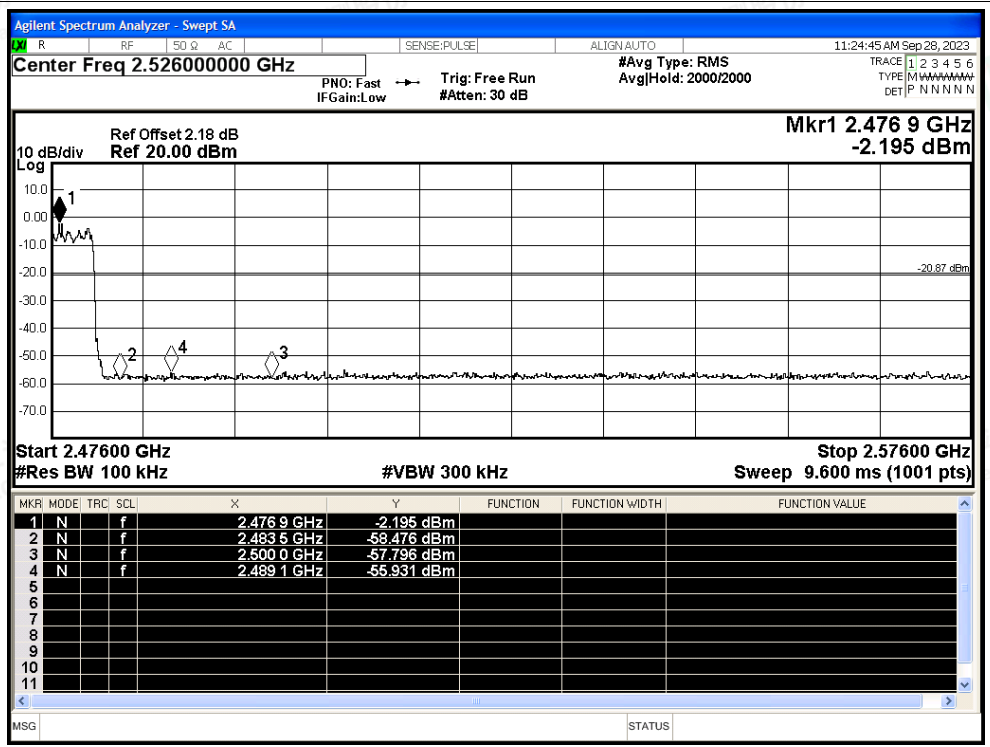




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-54.69	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.11	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.23	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.19	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.5	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.67	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.93	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.19	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.09	-20	Pass

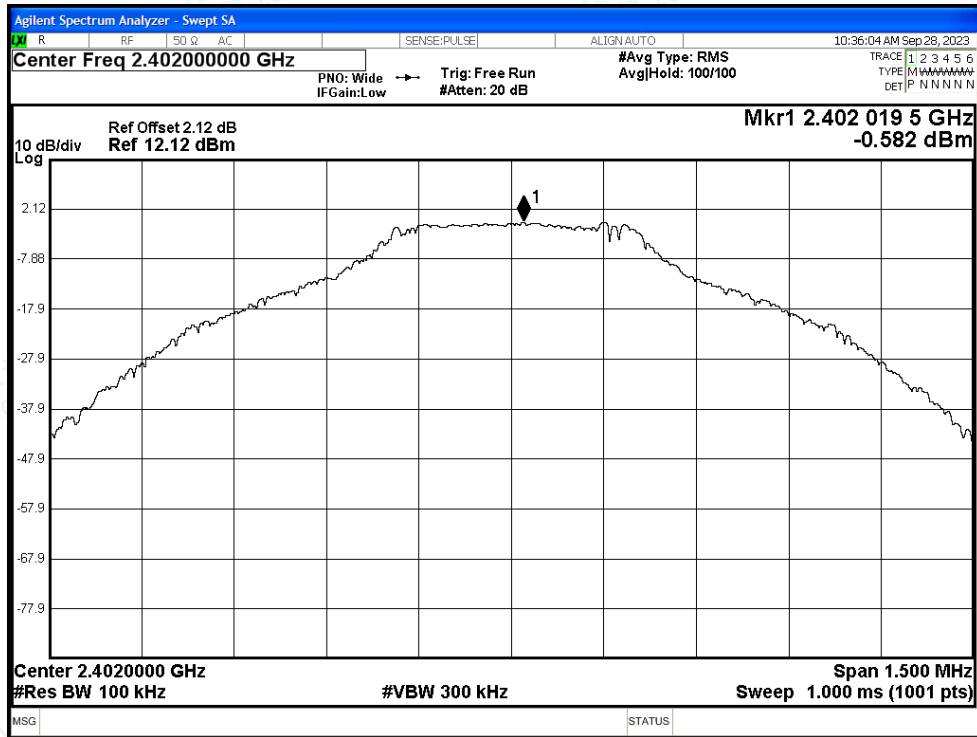


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Scan code to check authenticity

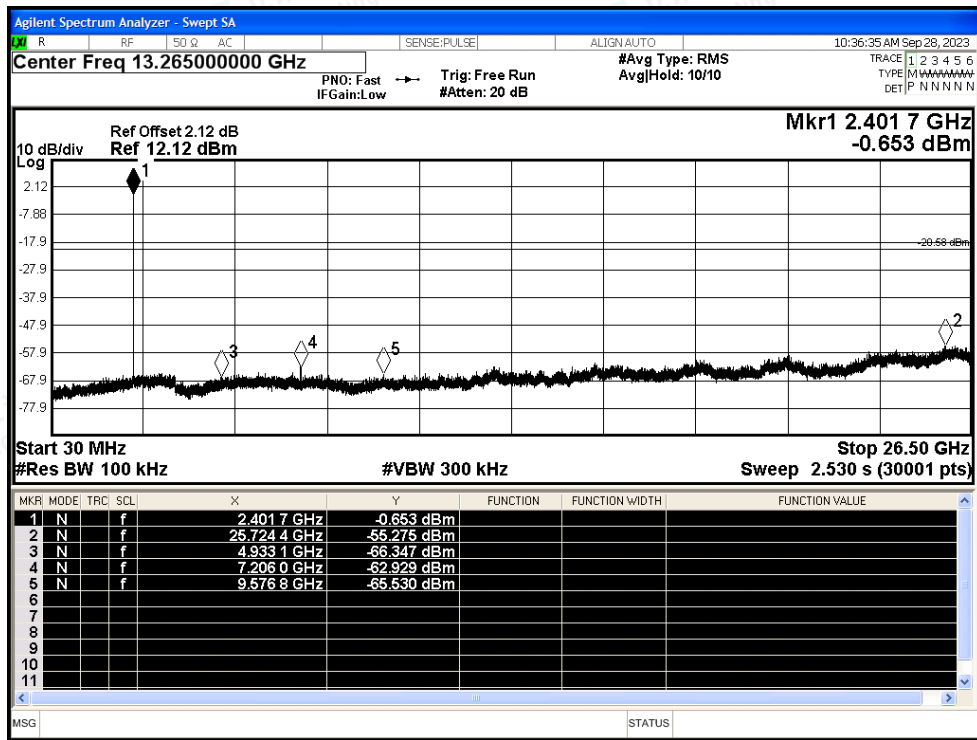


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

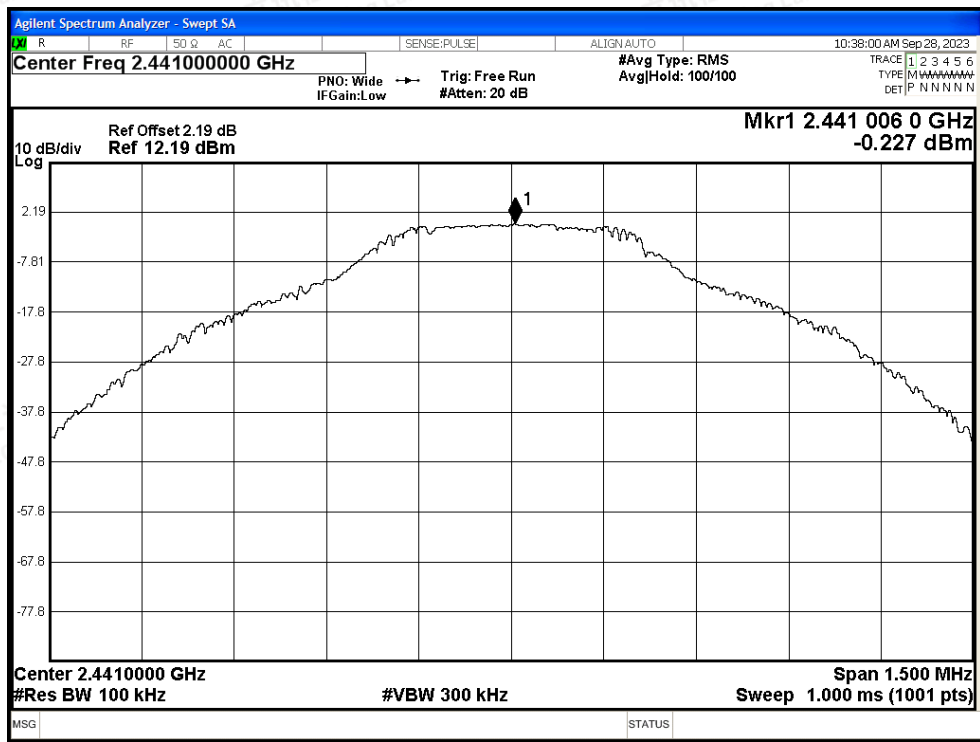


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

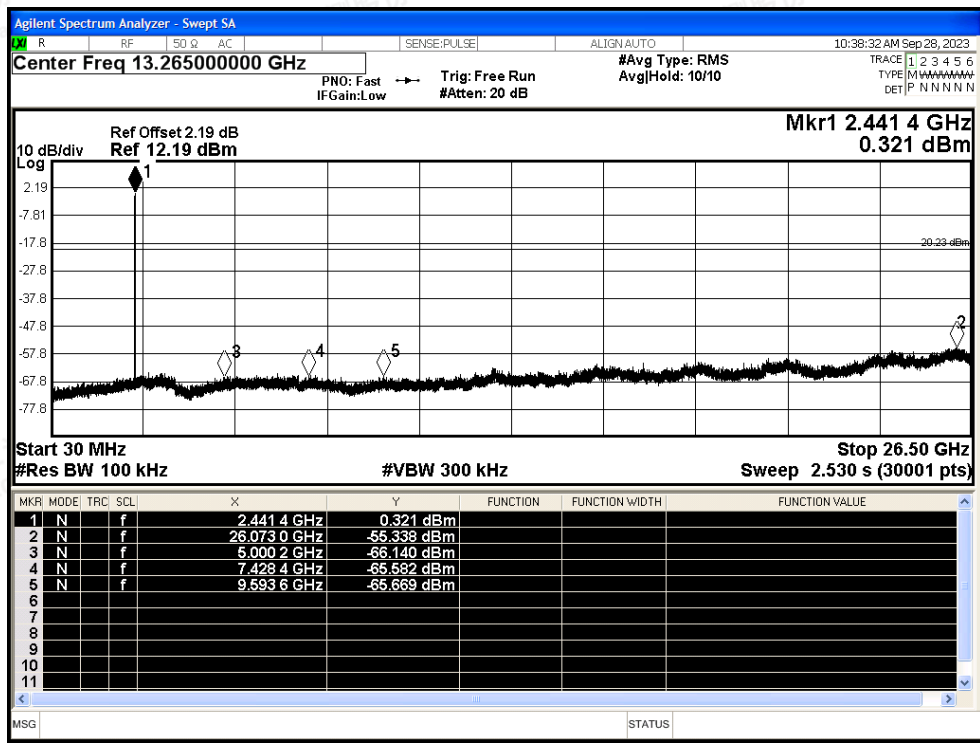




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

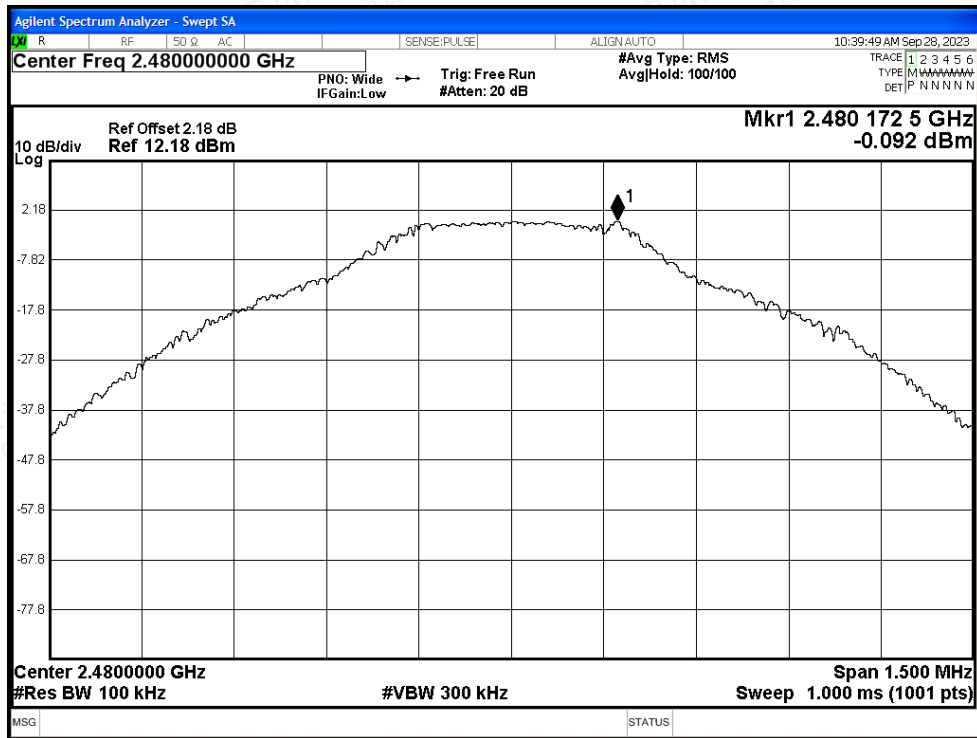


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

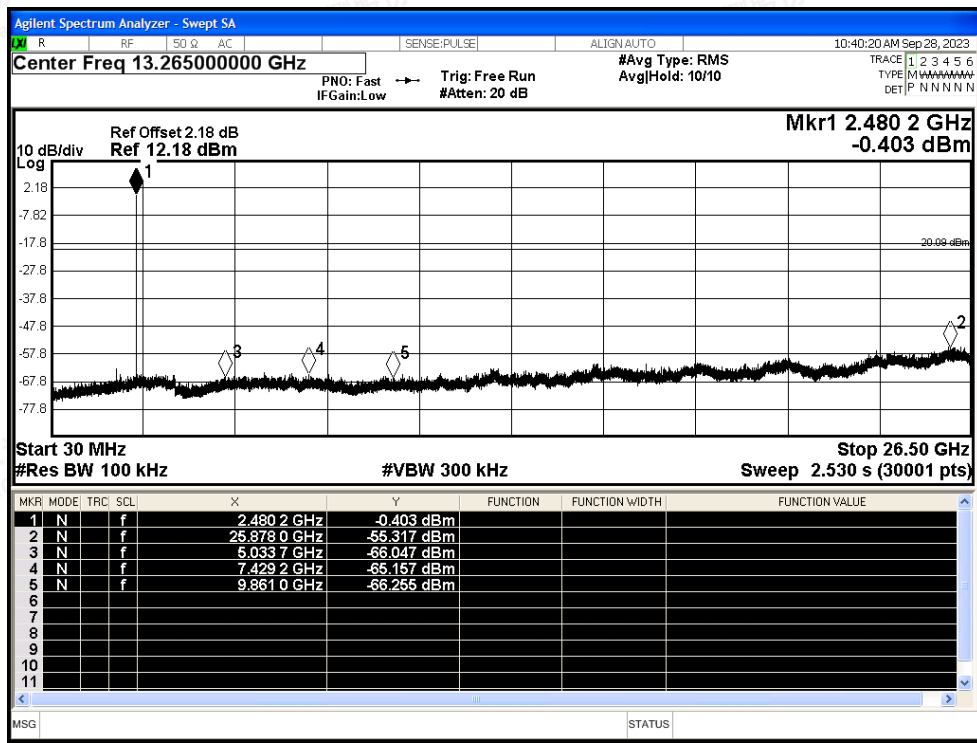




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

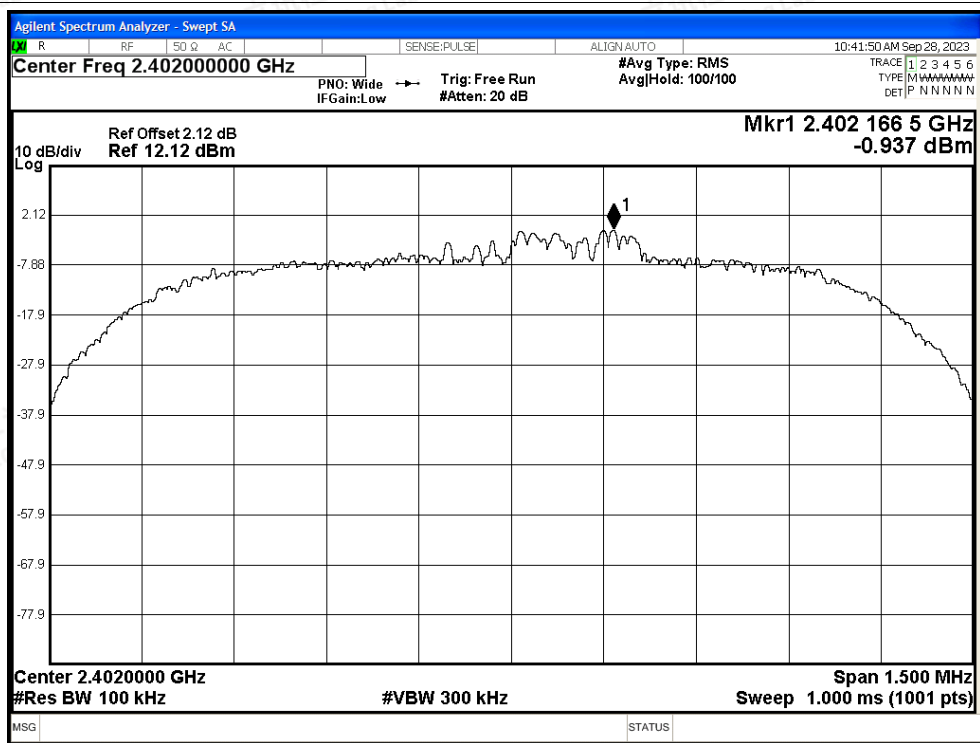


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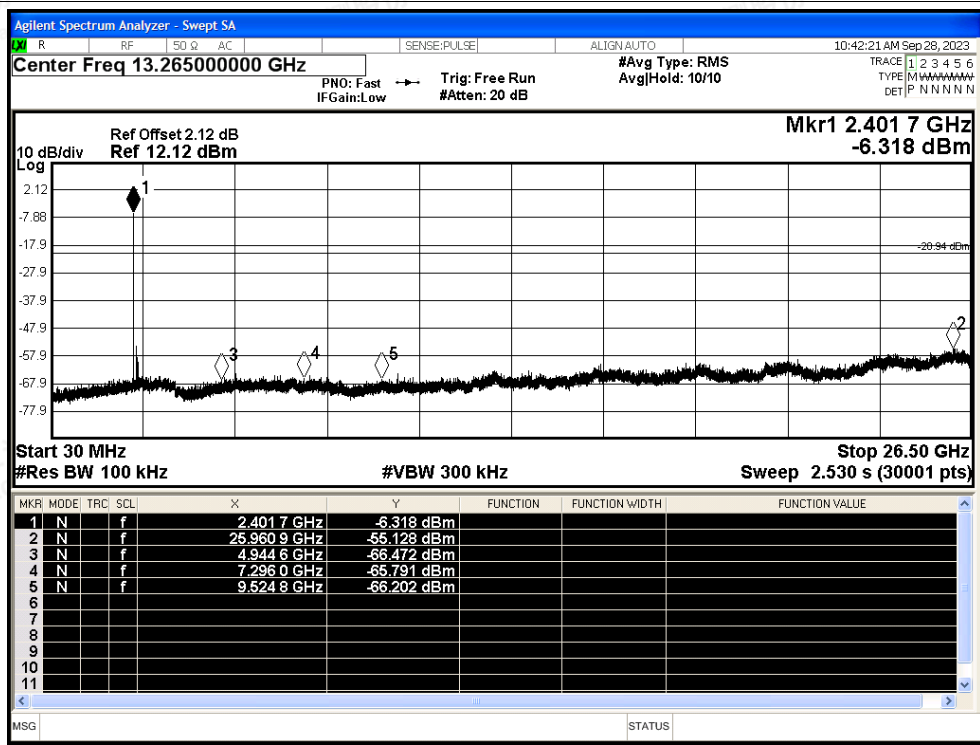




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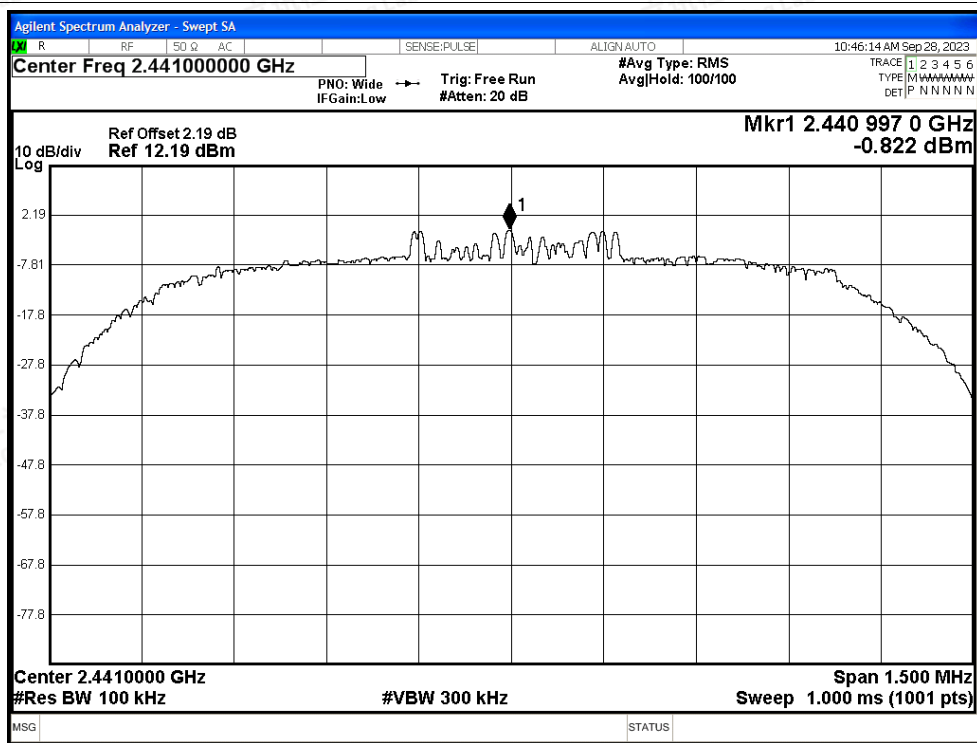


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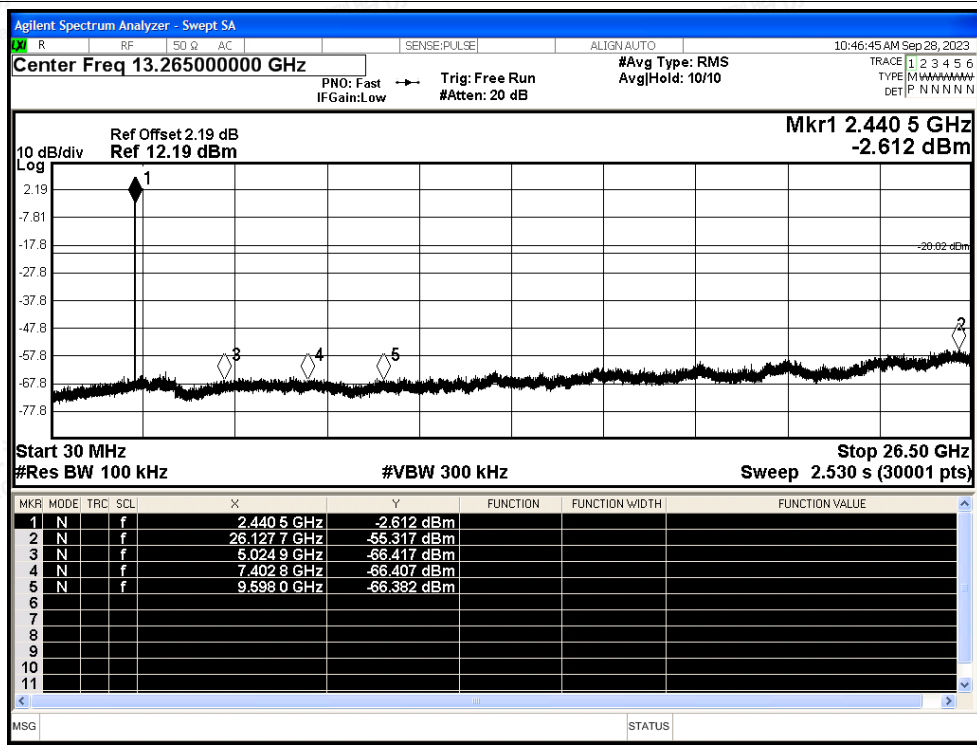




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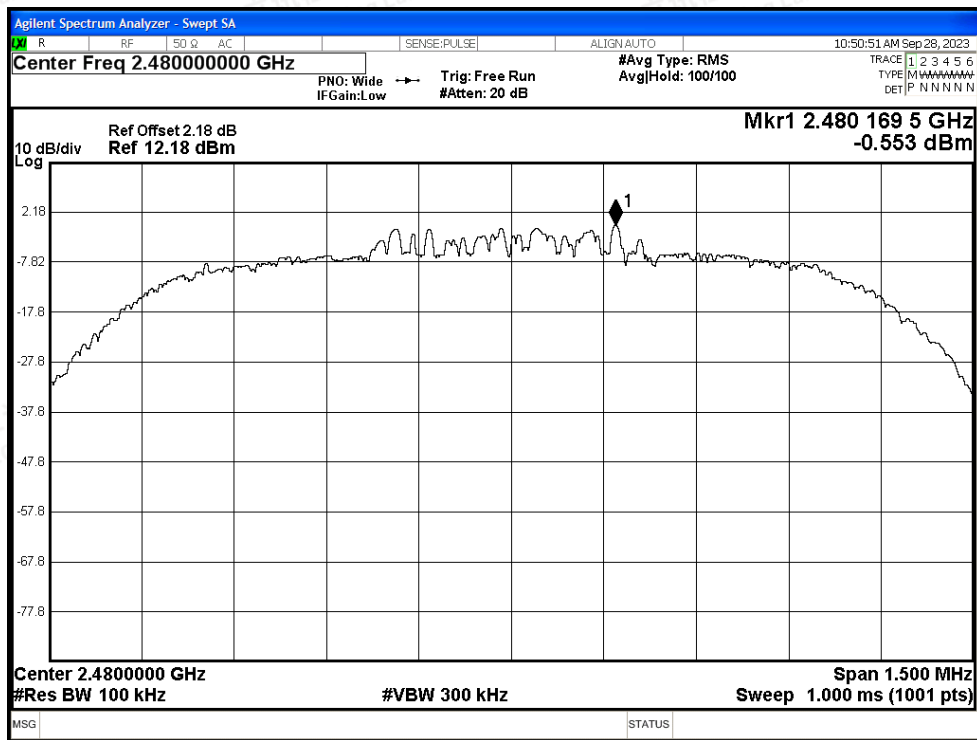


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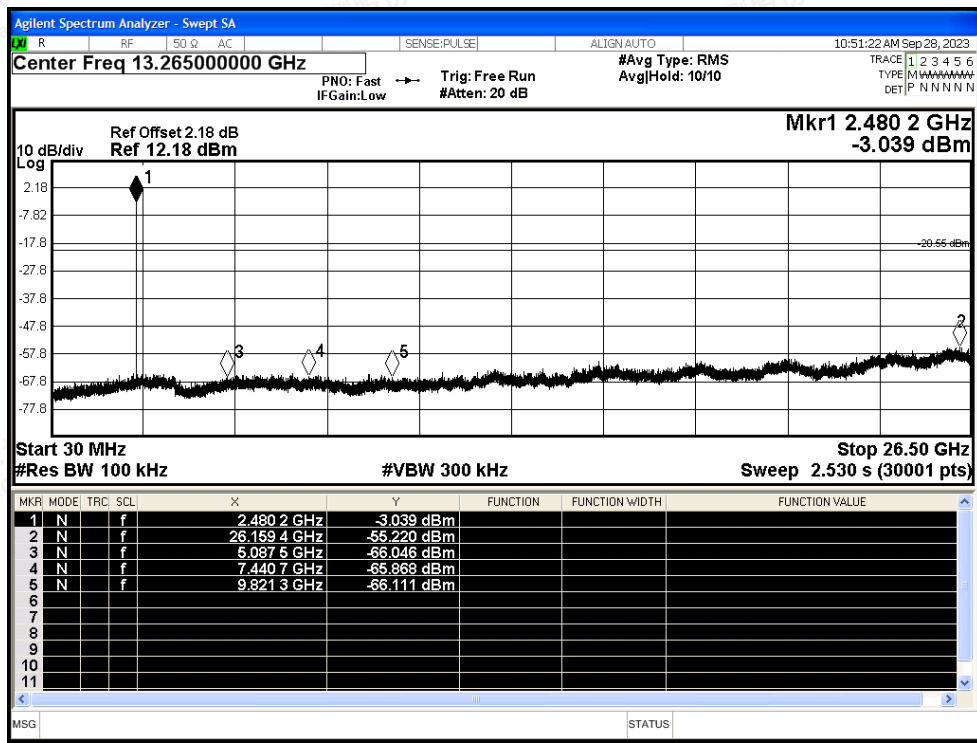




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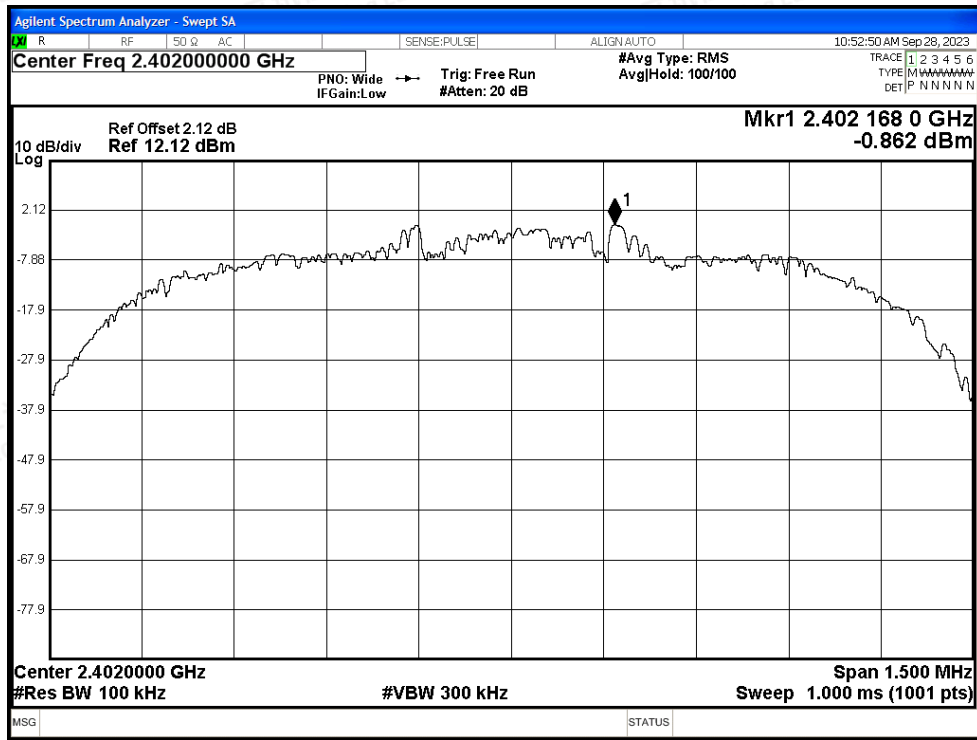


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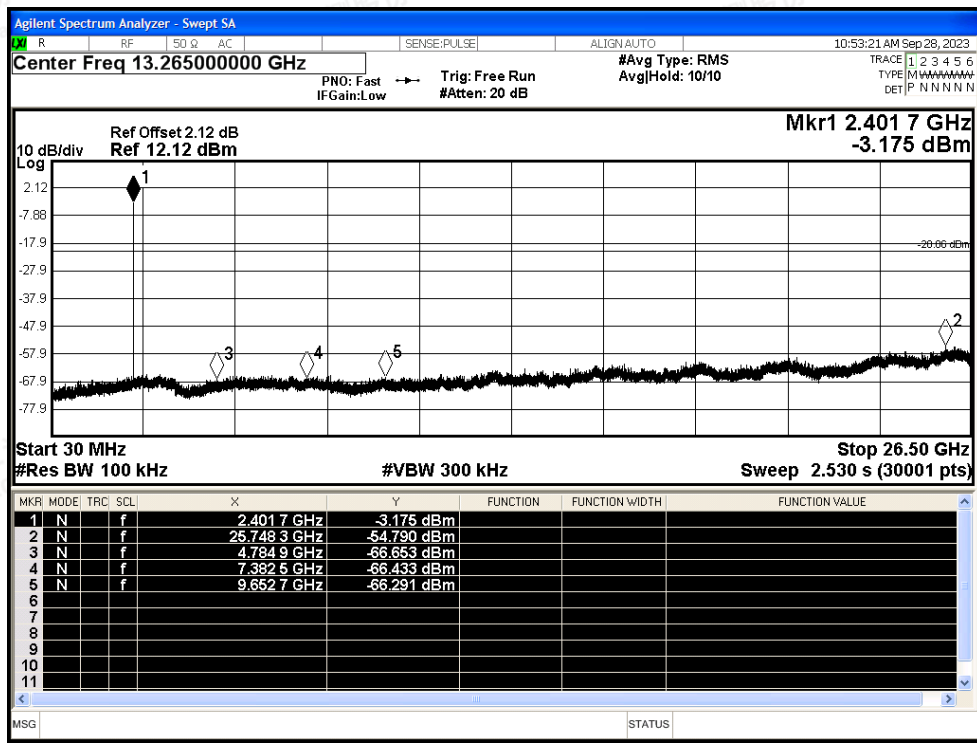




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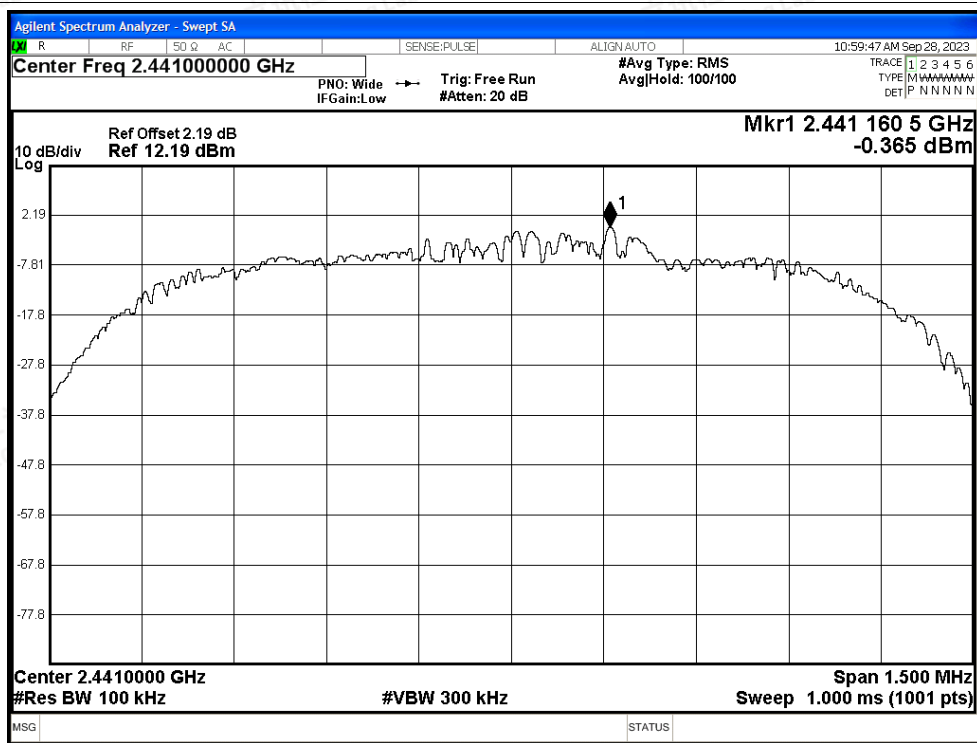


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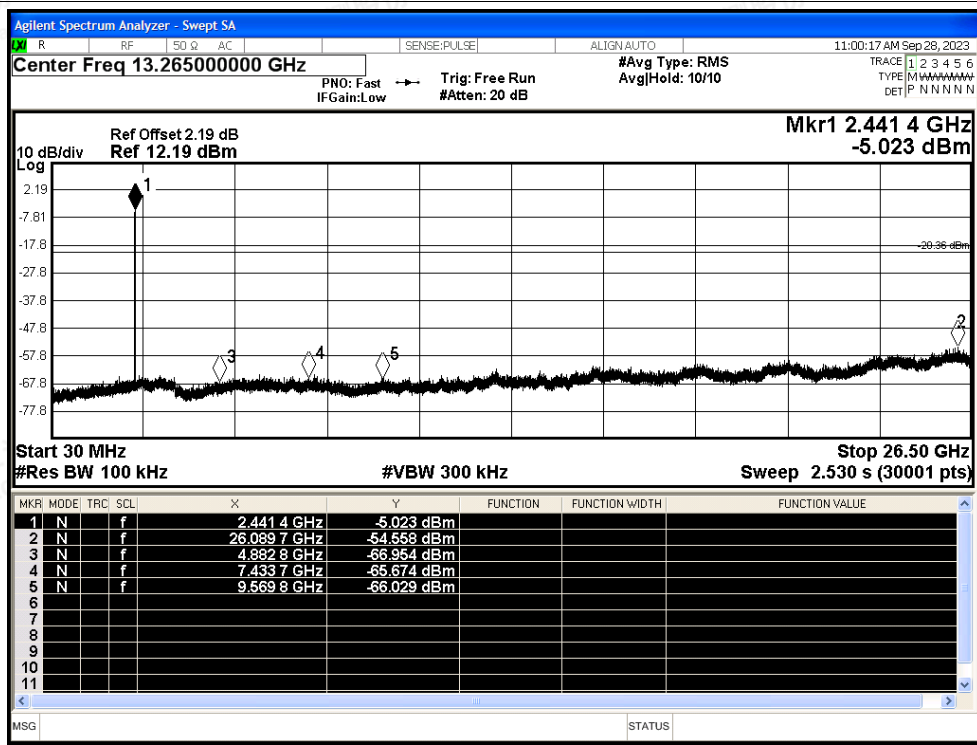




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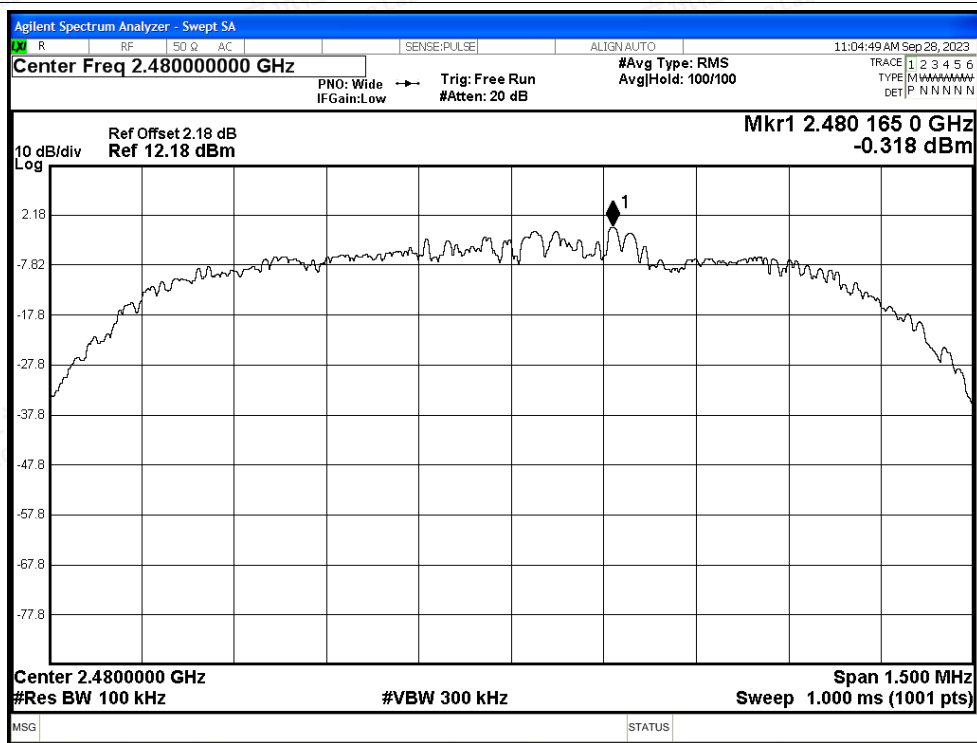


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

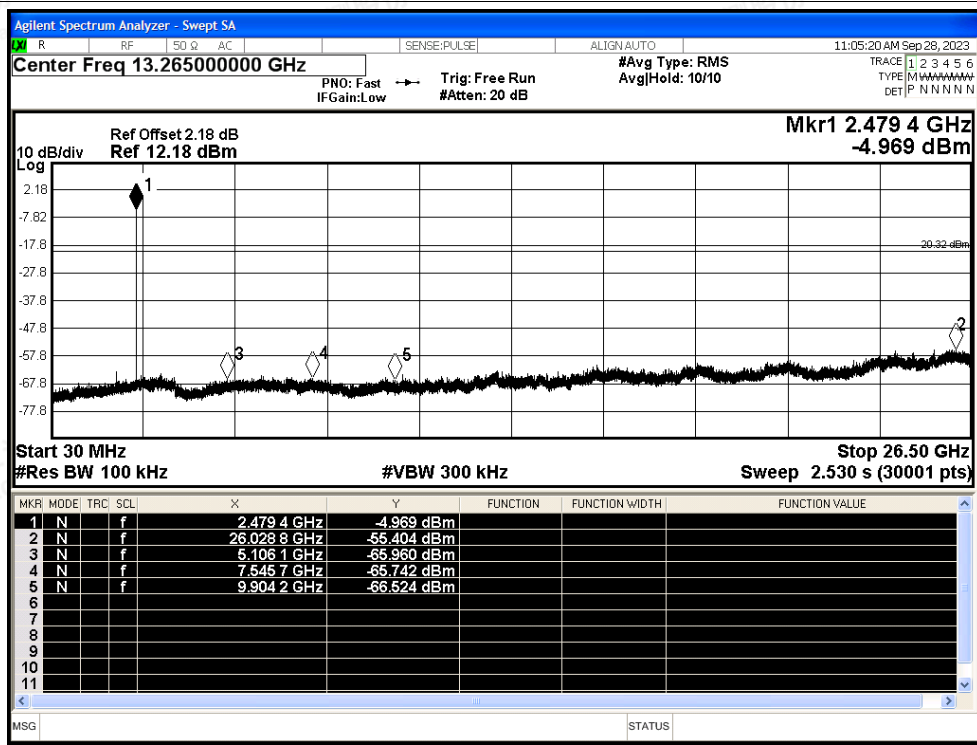




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

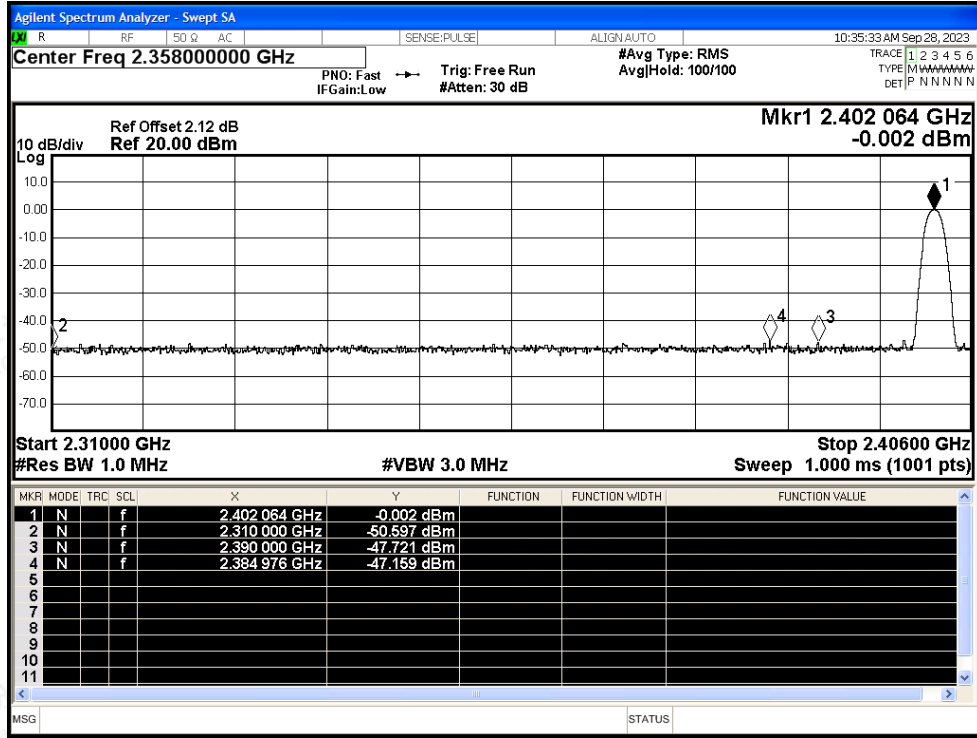
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.6	2	46.66	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.64	2	39.62	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.976	-47.16	2	50.1	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.552	-57.25	2	40.01	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-47.72	2	49.54	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-57.31	2	39.95	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.5	2	47.76	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-55.75	2	41.51	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2493.856	-46.98	2	50.28	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-55.75	2	41.51	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.63	2	47.63	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57	2	40.26	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.86	2	46.4	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.66	2	39.6	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.088	-47.45	2	49.81	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2386.8	-57.21	2	40.05	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.26	2	47	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-57.31	2	39.95	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.4	2	46.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.65	2	41.61	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.584	-47.16	2	50.1	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.65	2	41.61	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.07	2	46.19	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.03	2	40.23	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.69	2	47.57	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.76	2	39.5	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2348.496	-47.56	2	49.7	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.872	-57.24	2	40.02	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.84	2	46.42	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.24	2	40.02	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.91	2	49.35	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-55.64	2	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2496.736	-46.81	2	50.45	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-55.64	2	41.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.25	2	47.01	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.09	2	40.17	Average	54	Pass



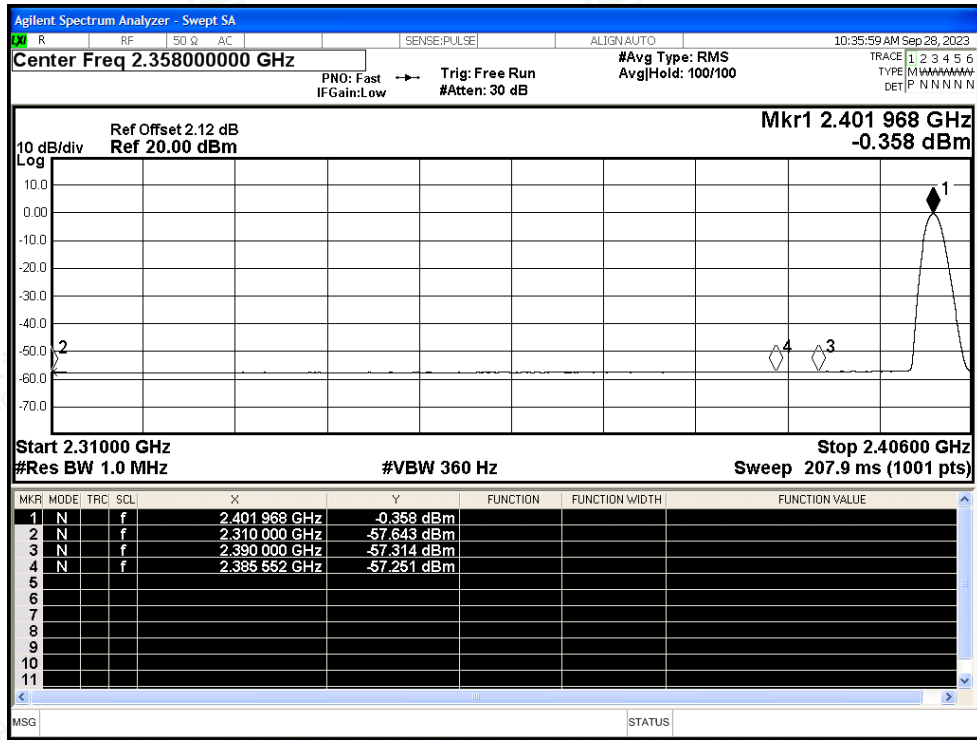


Test Graphs

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

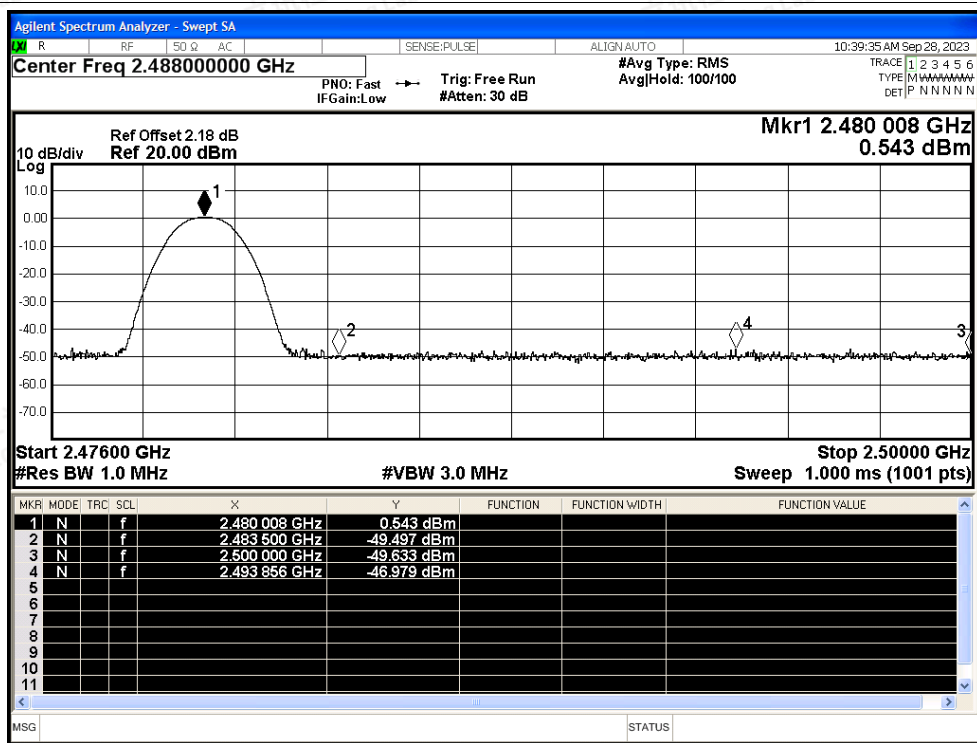


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

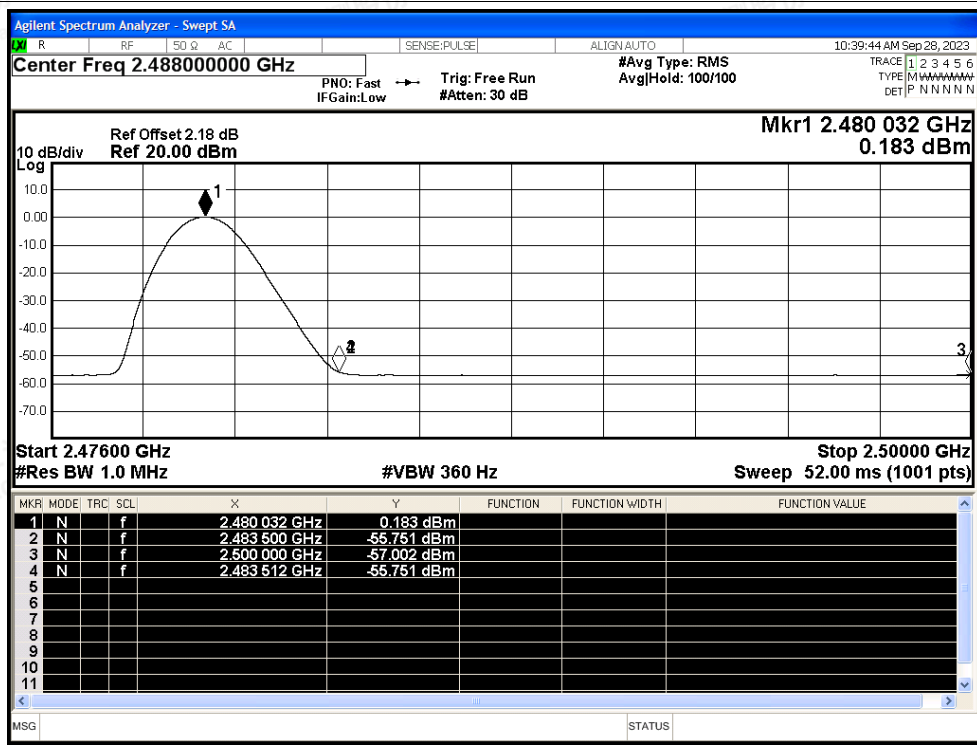




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

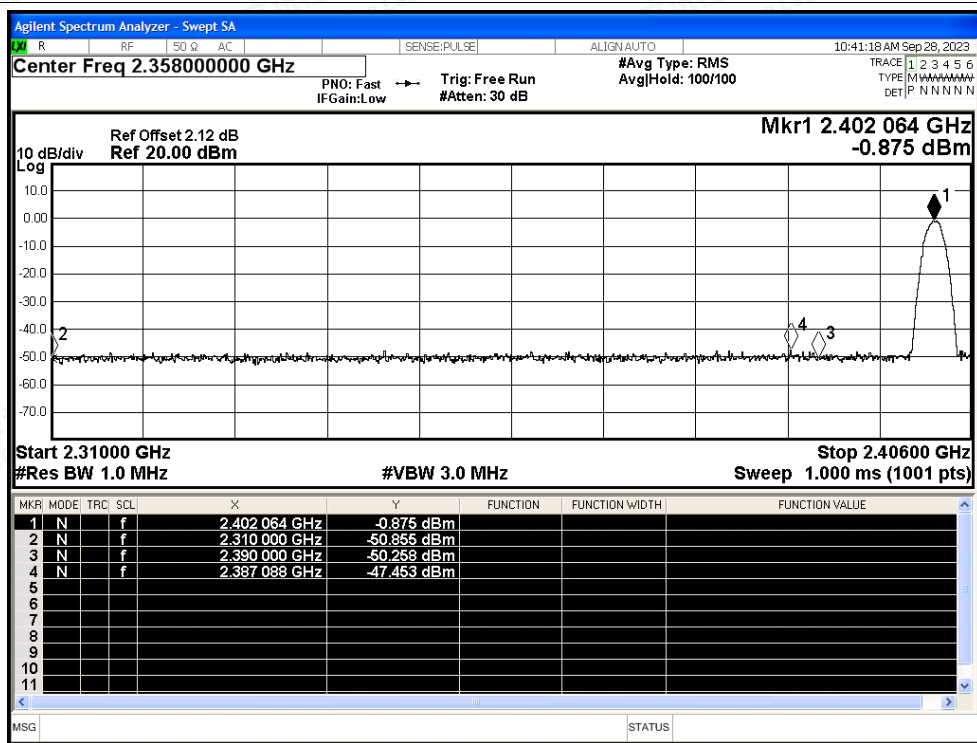


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

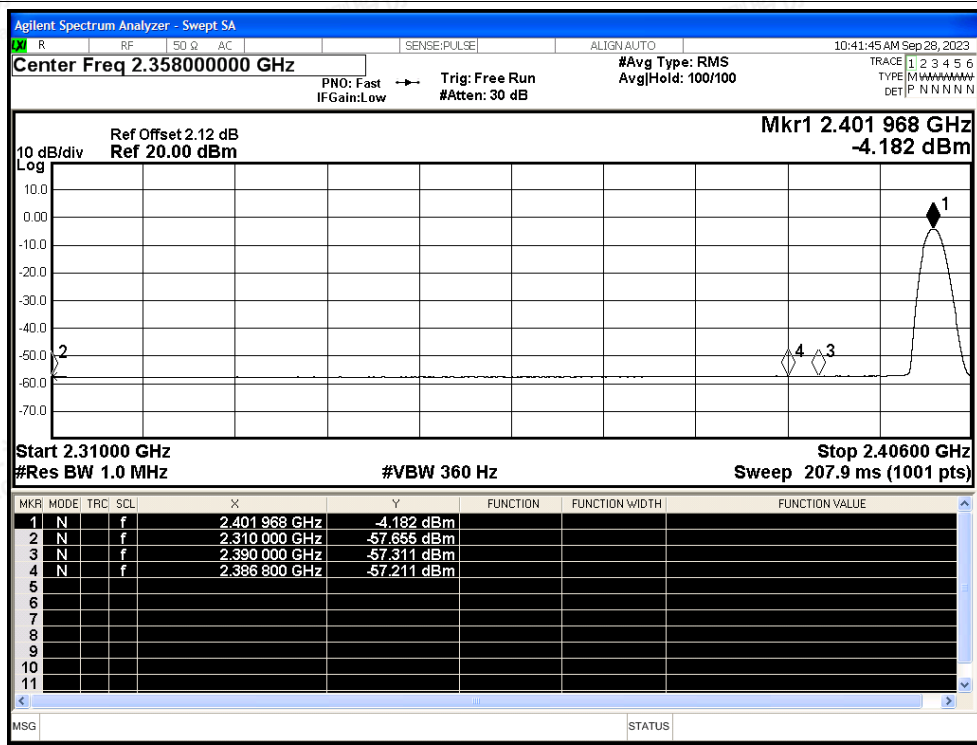




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

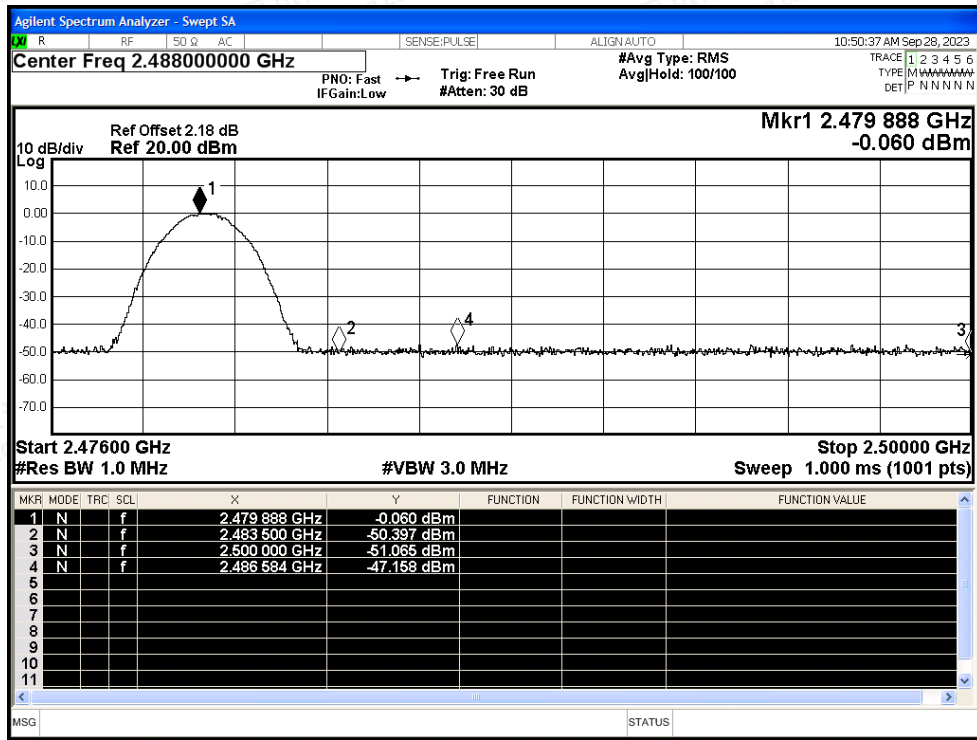


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

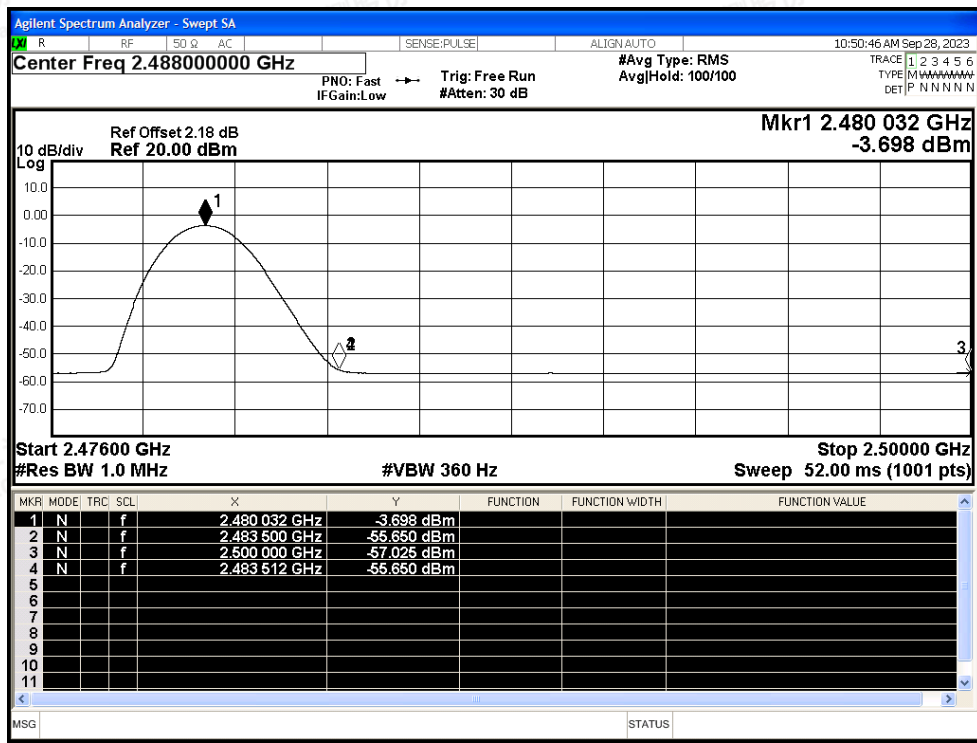




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

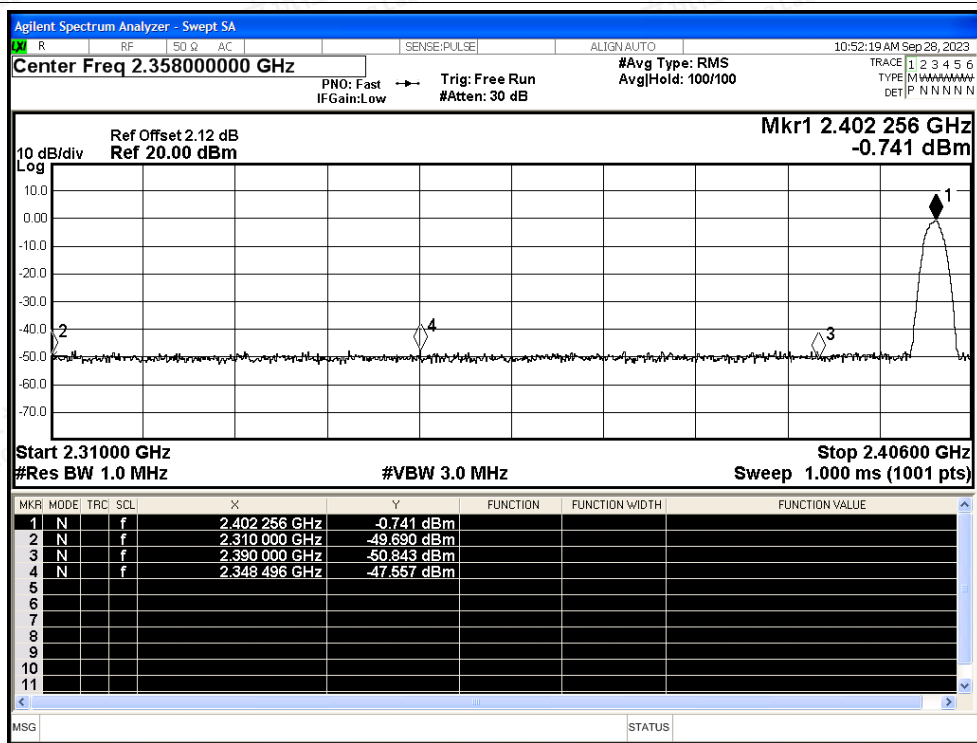


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

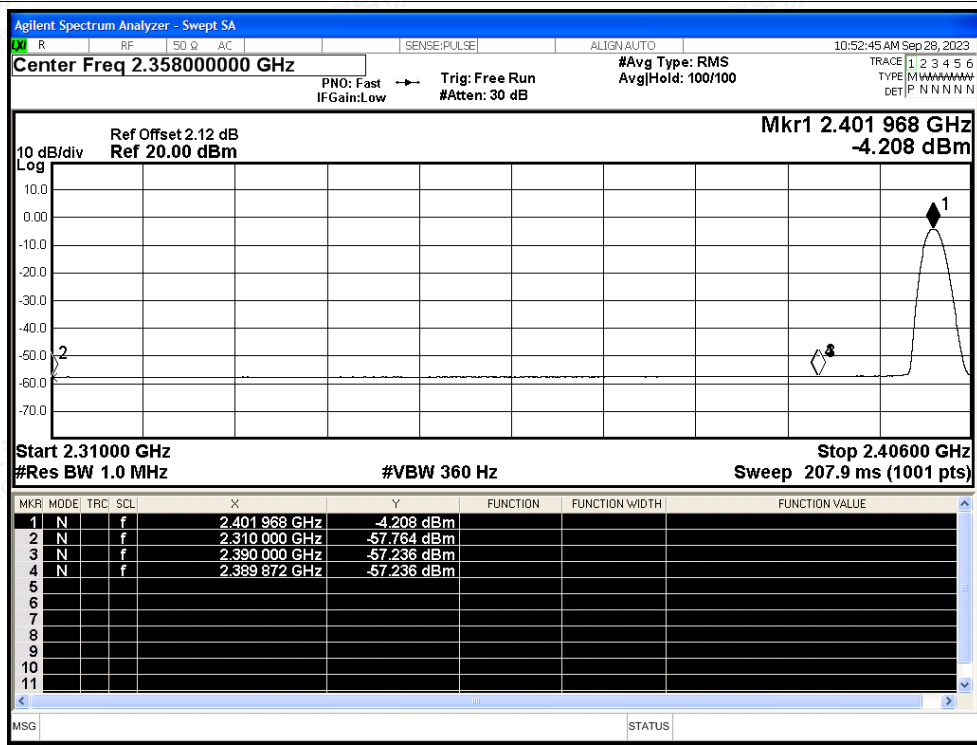




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

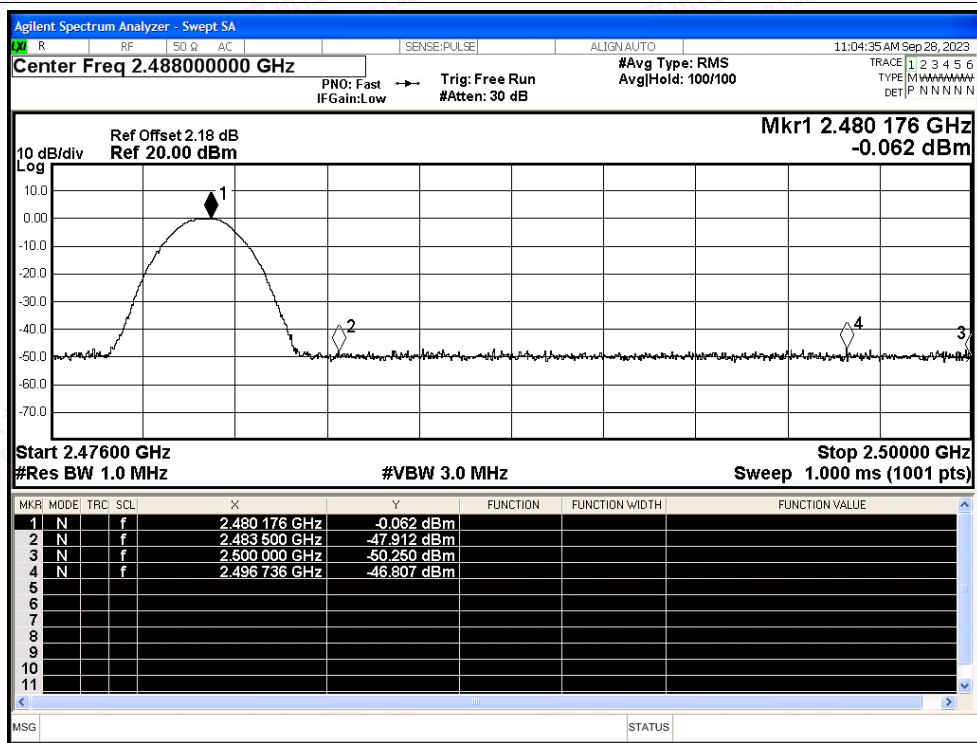


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

