



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mibro Watch Lite3 Pro

Test Model: XPAW019

Environmental Conditions

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



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A.1 -20dB Bandwidth

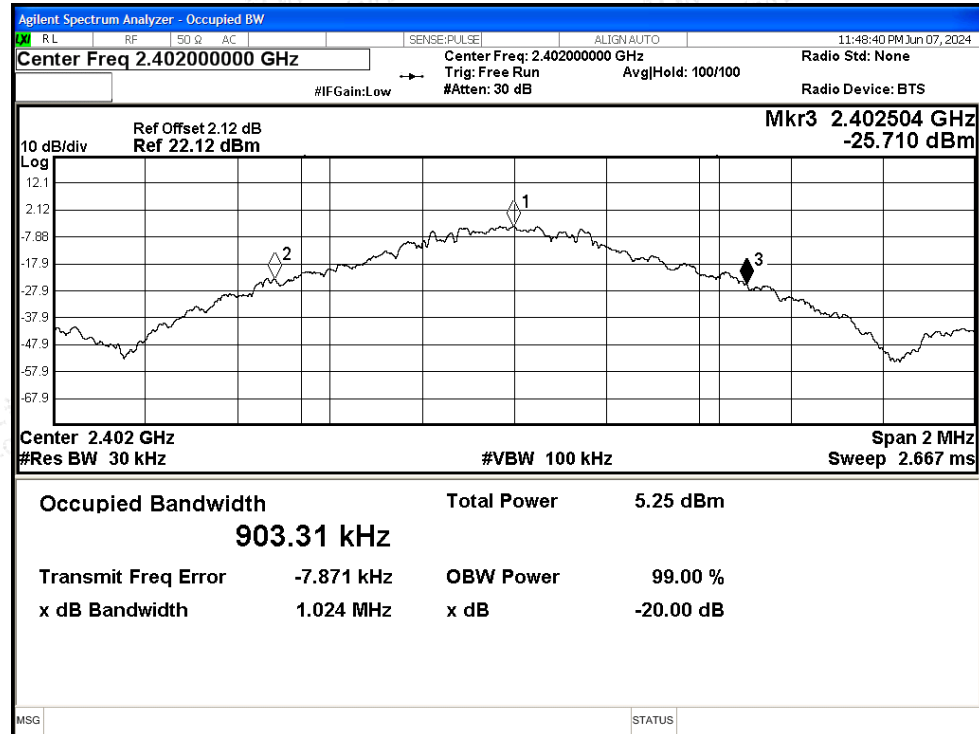
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.024	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.022	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.015	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.279	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.29	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.317	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.299	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.288	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.278	N/A	Pass



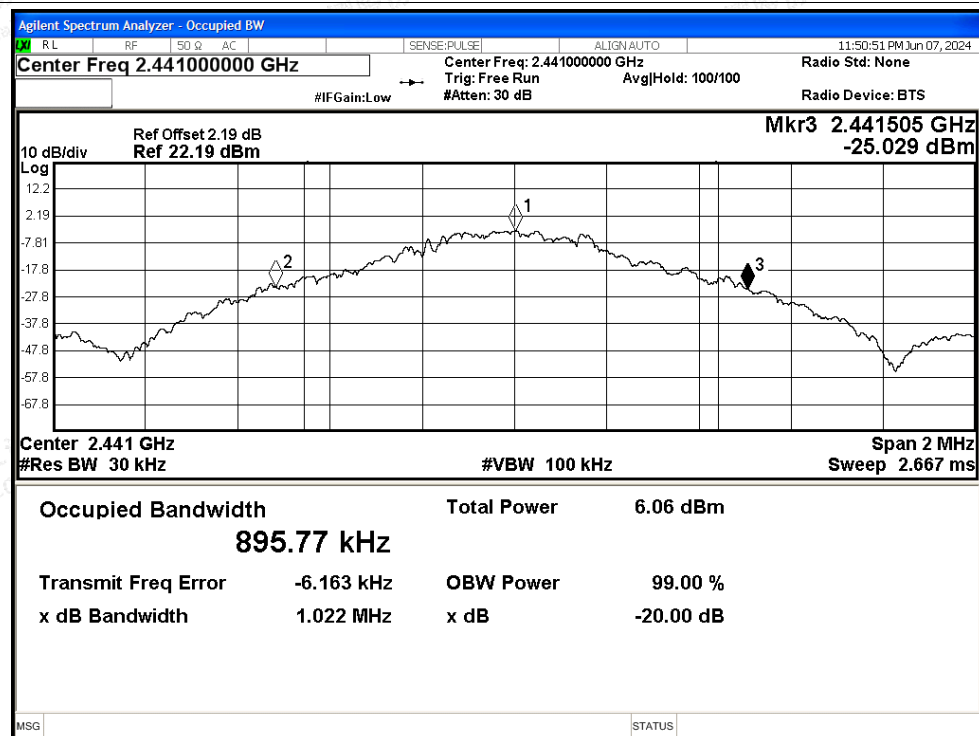


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

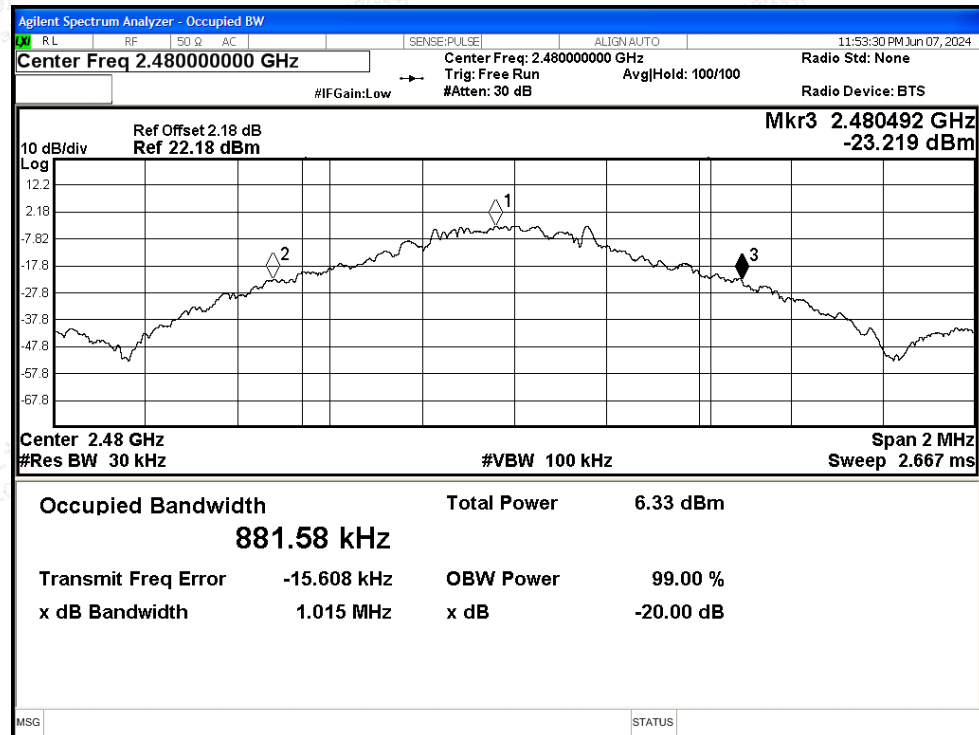


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

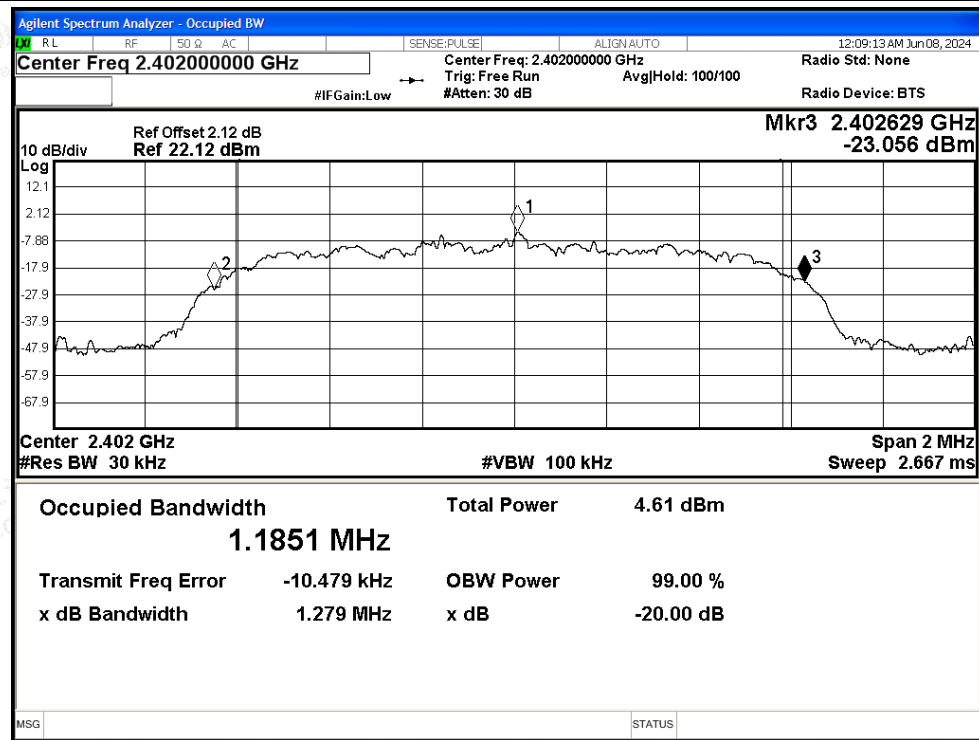




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

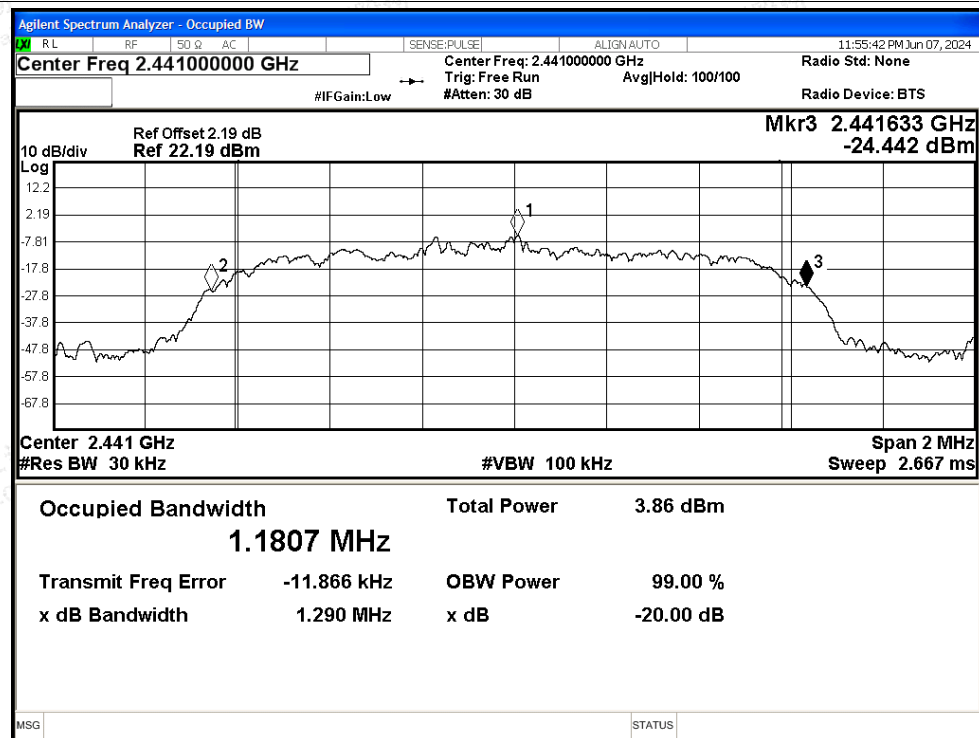


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

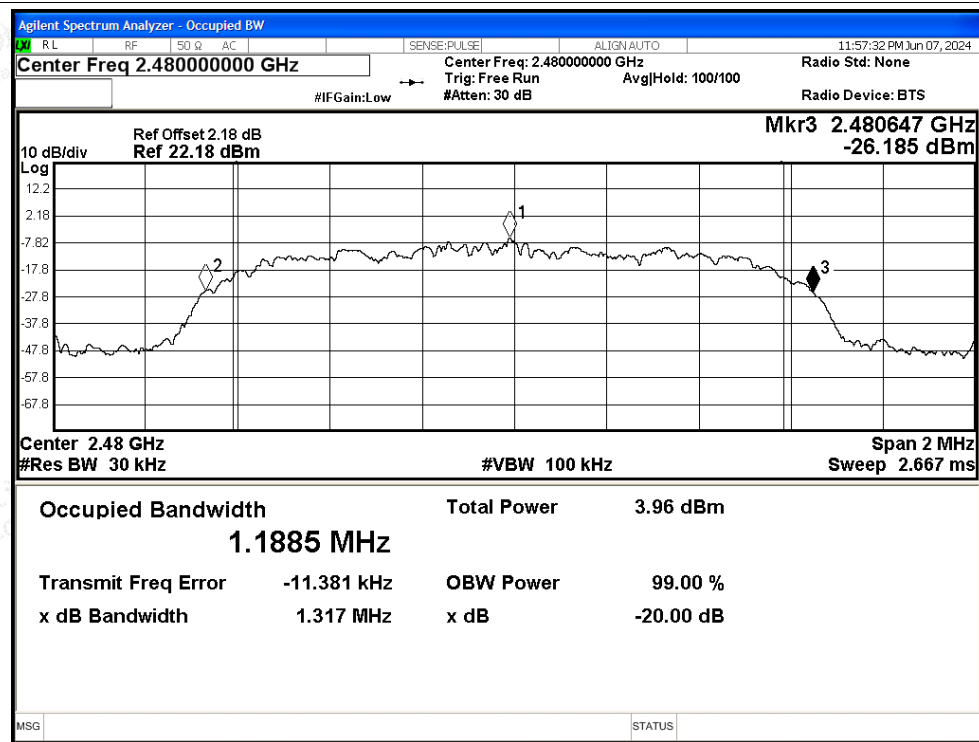




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

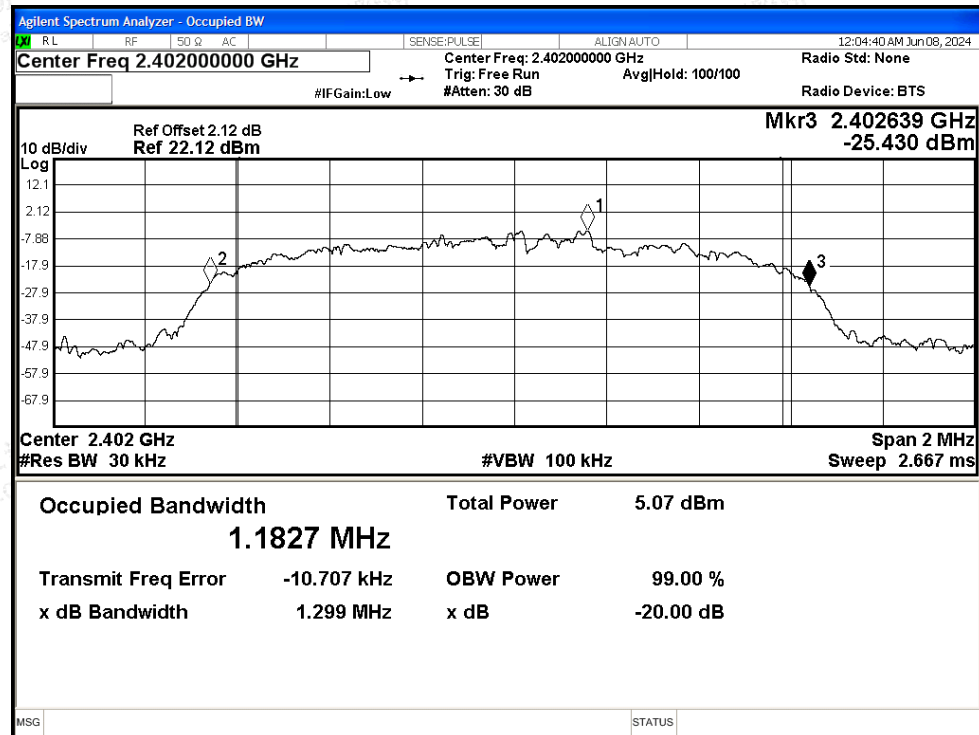


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

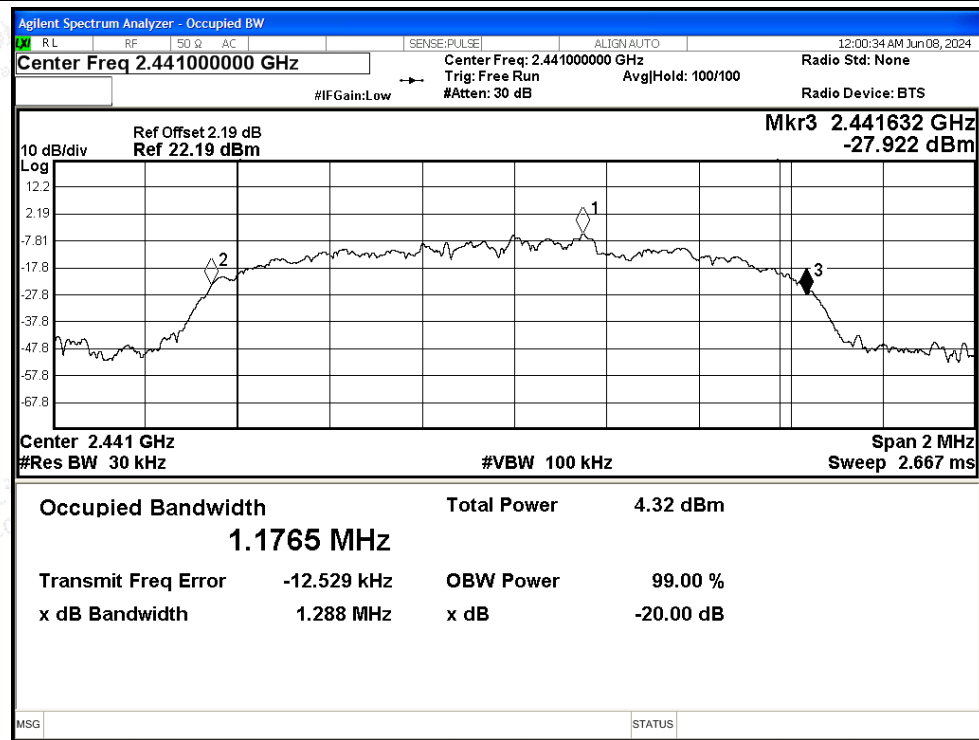


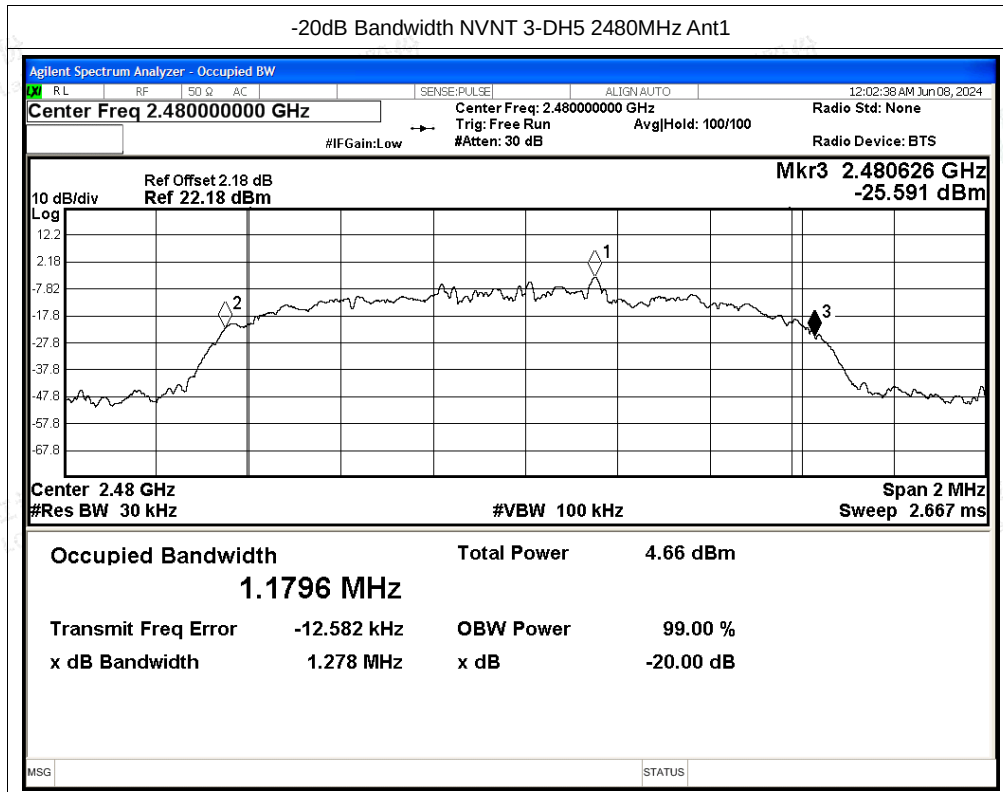


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1







A.2 Maximum Peak Conducted Output Power

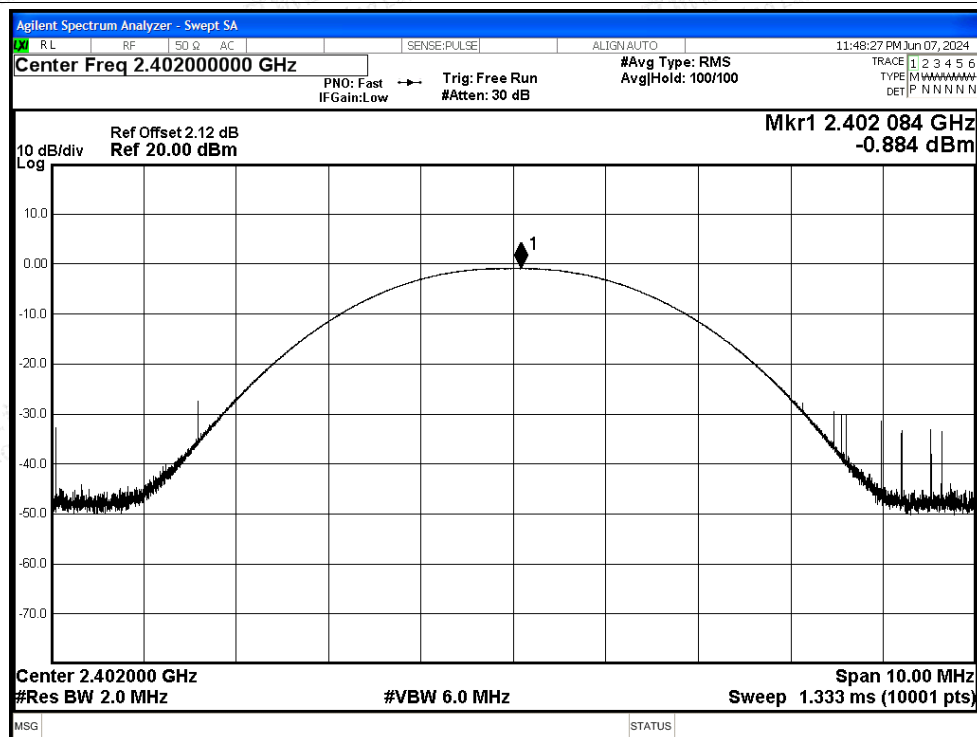
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.88	21	Pass
NVNT	1-DH5	2441	Ant1	-0.35	21	Pass
NVNT	1-DH5	2480	Ant1	-0.01	21	Pass
NVNT	2-DH5	2402	Ant1	0.3	21	Pass
NVNT	2-DH5	2441	Ant1	-0.51	21	Pass
NVNT	2-DH5	2480	Ant1	-0.24	21	Pass
NVNT	3-DH5	2402	Ant1	0.41	21	Pass
NVNT	3-DH5	2441	Ant1	-0.44	21	Pass
NVNT	3-DH5	2480	Ant1	-0.16	21	Pass



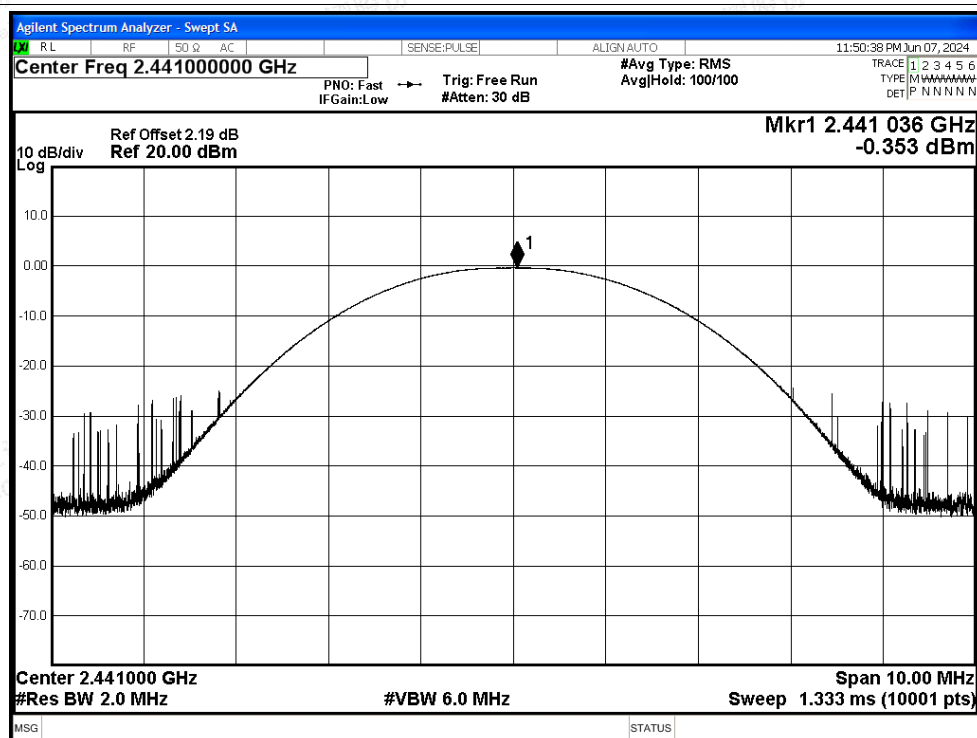


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

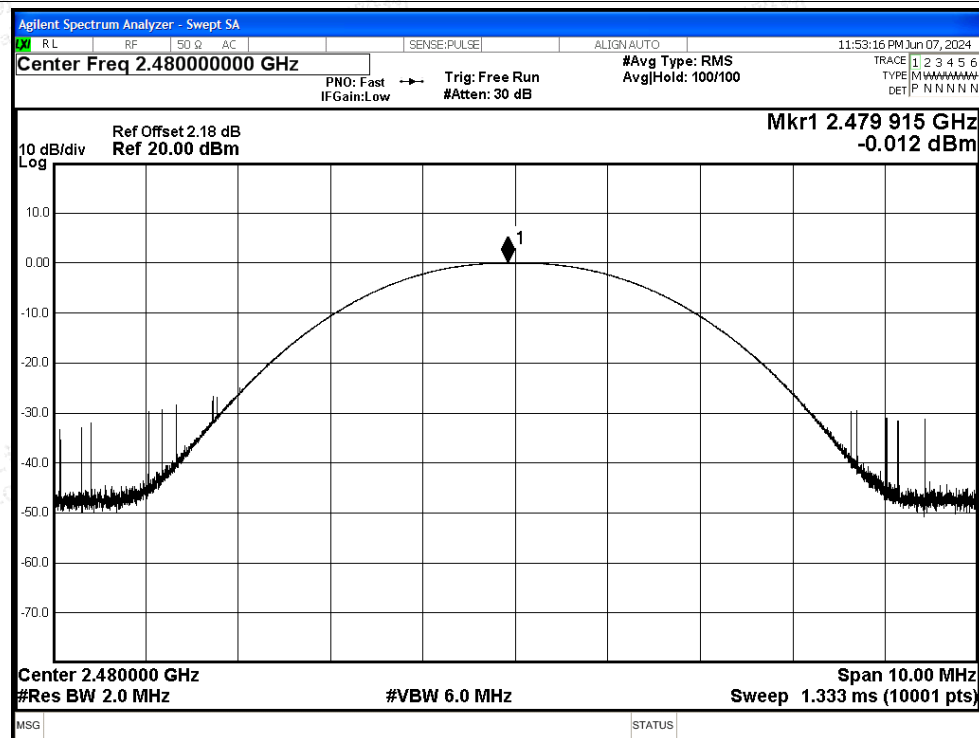


Power NVNT 1-DH5 2441MHz Ant1

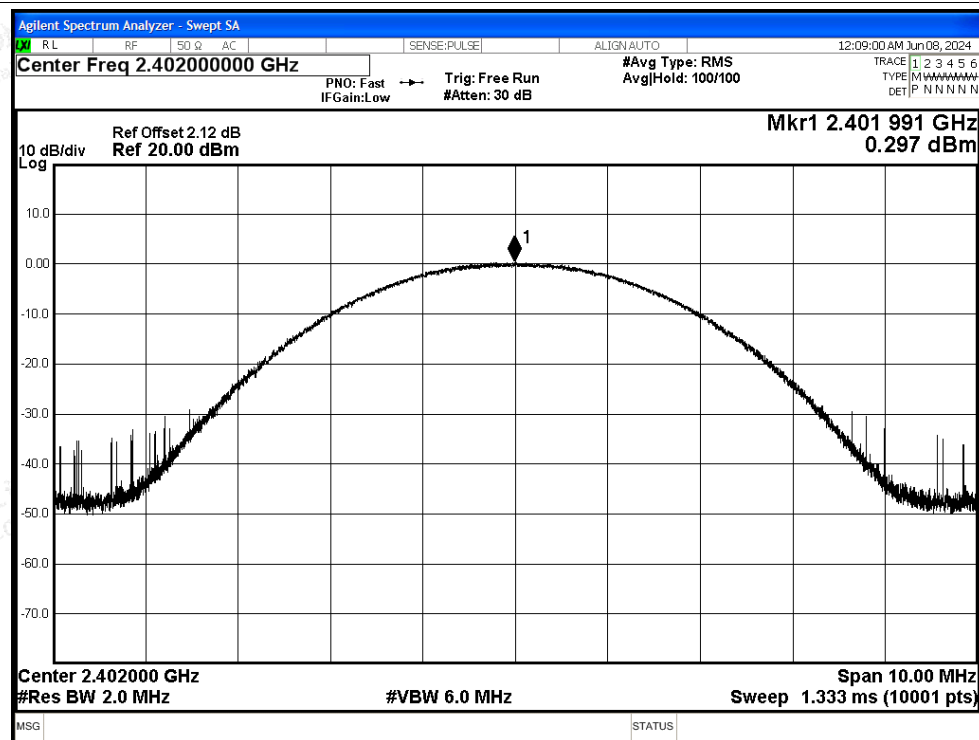




Power NVNT 1-DH5 2480MHz Ant1

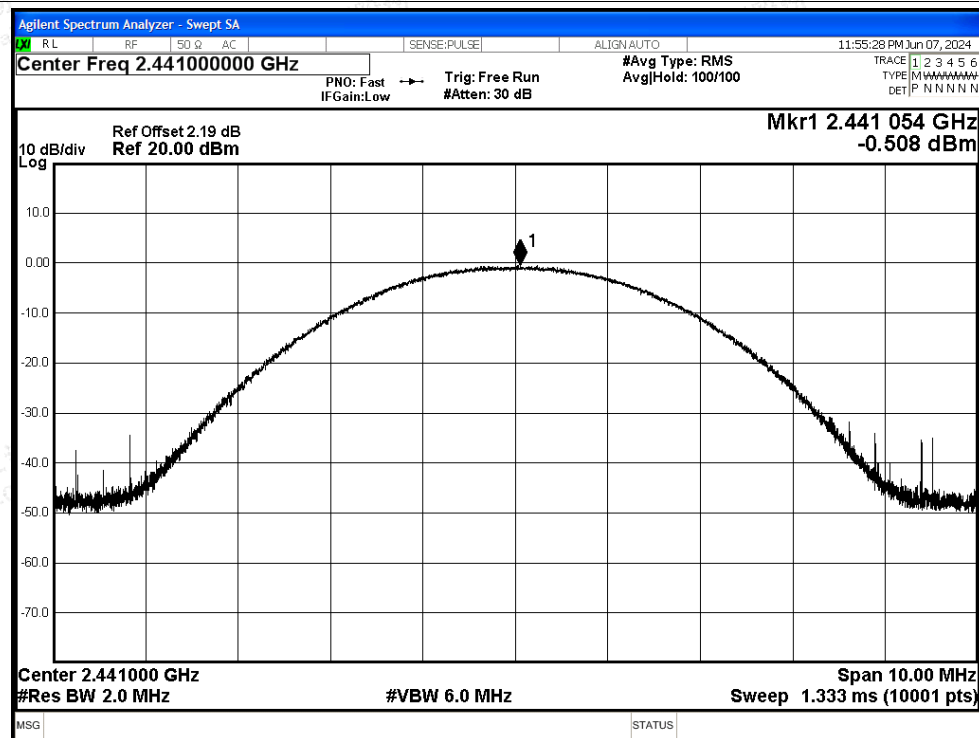


Power NVNT 2-DH5 2402MHz Ant1

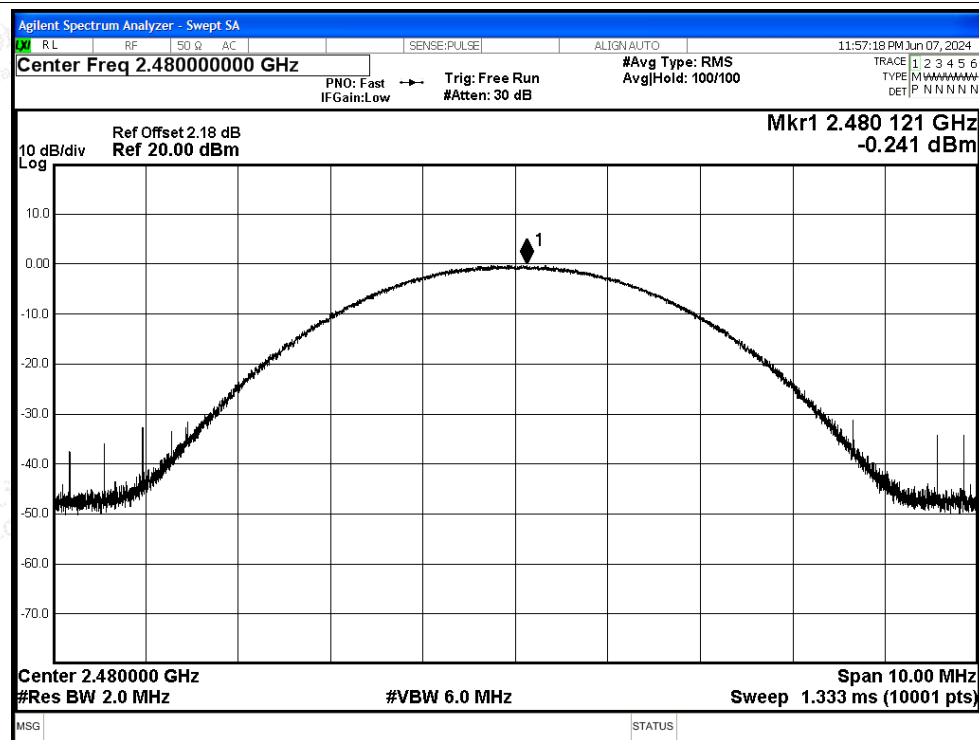




Power NVNT 2-DH5 2441MHz Ant1

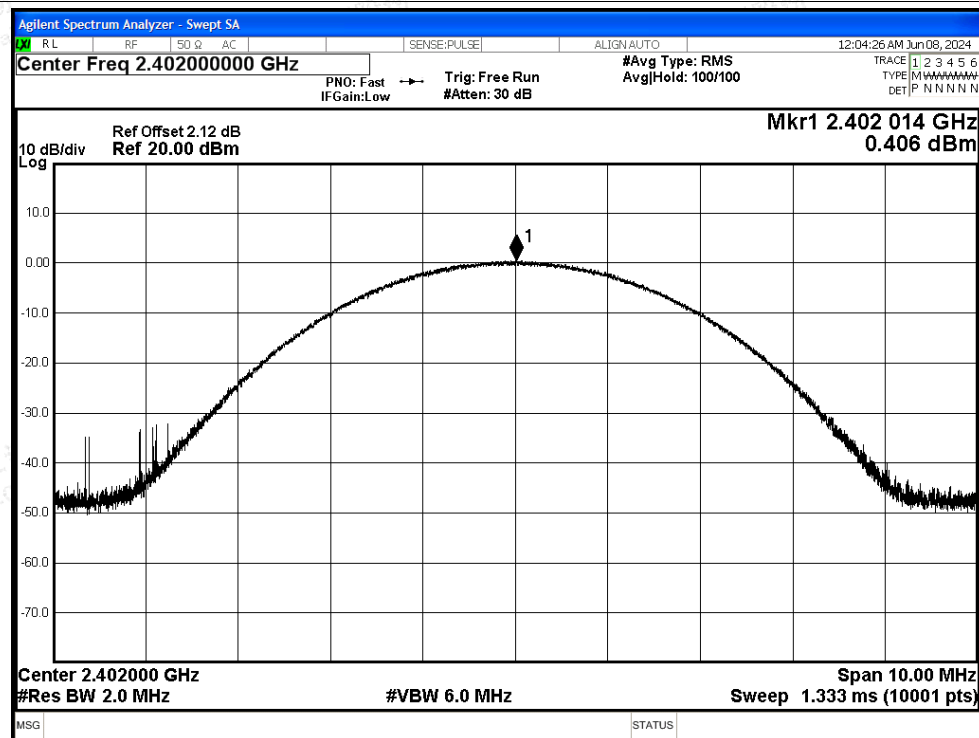


Power NVNT 2-DH5 2480MHz Ant1

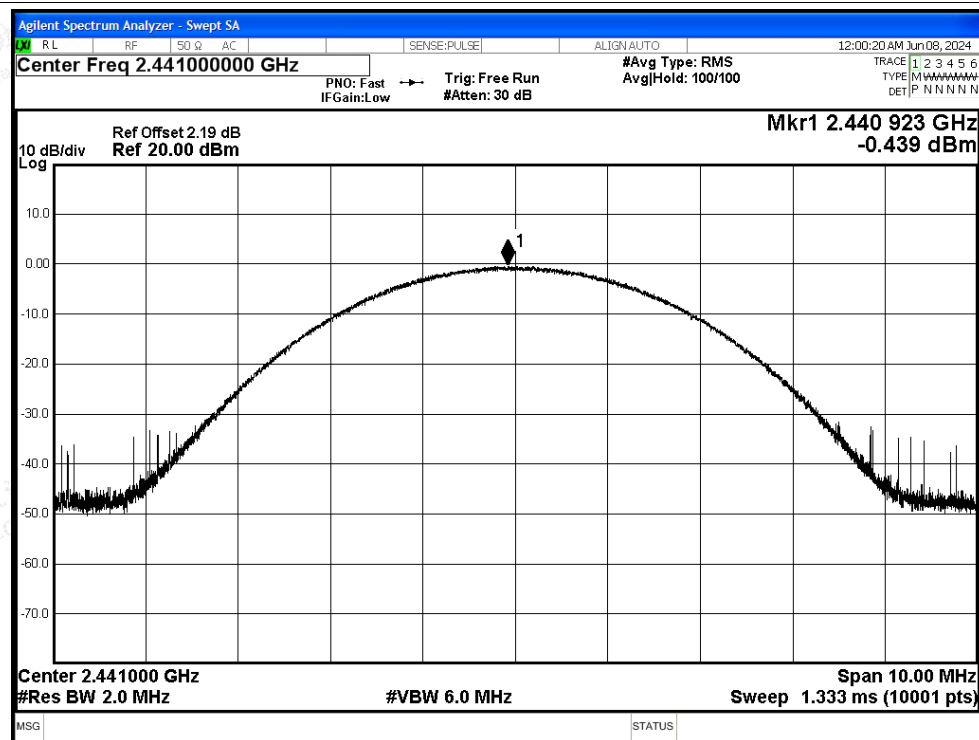


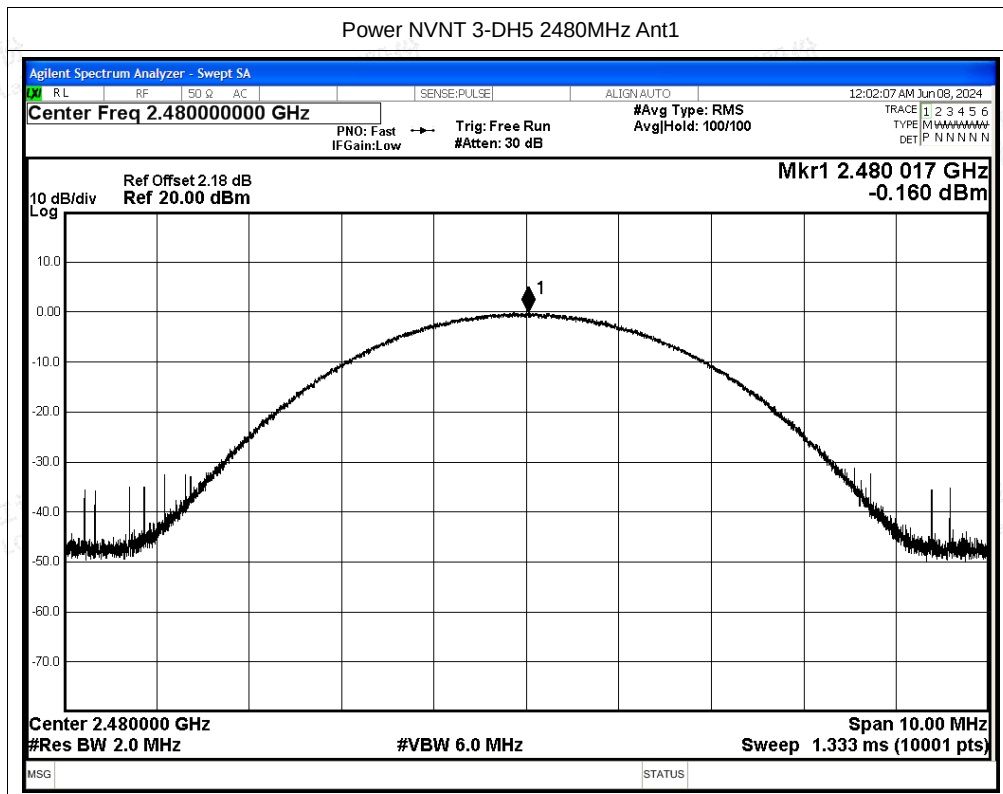


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







A.3 Carrier Frequencies Separation

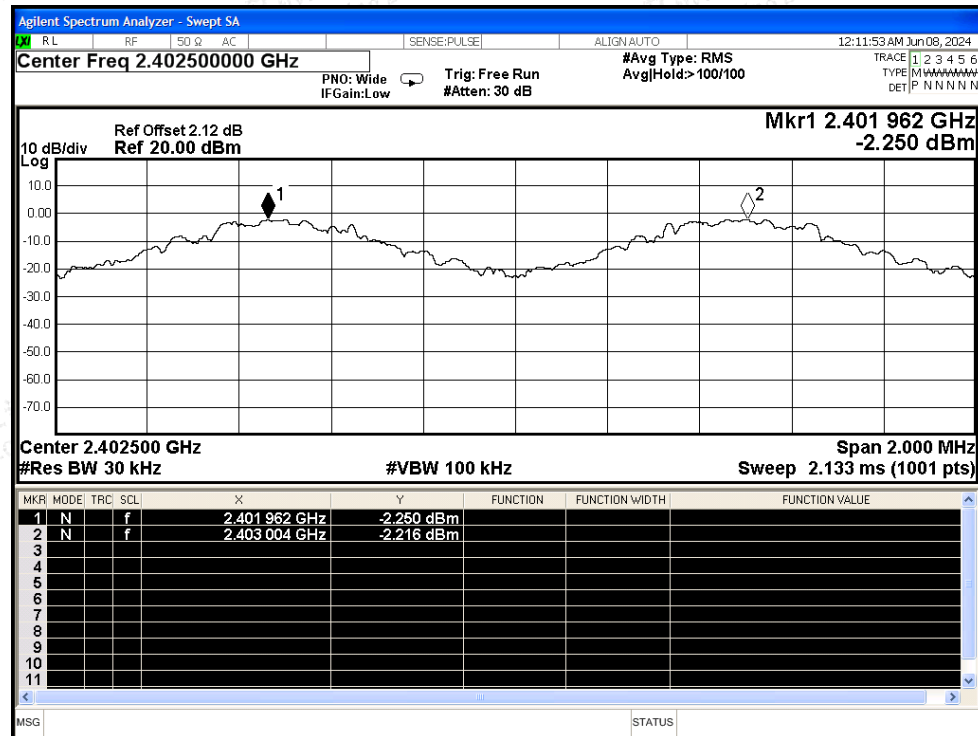
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.962	2403.004	1.042	0.683	Pass
NVNT	2-DH5	Ant1	2401.828	2403.152	1.324	0.878	Pass
NVNT	3-DH5	Ant1	2402.15	2403.16	1.01	0.866	Pass



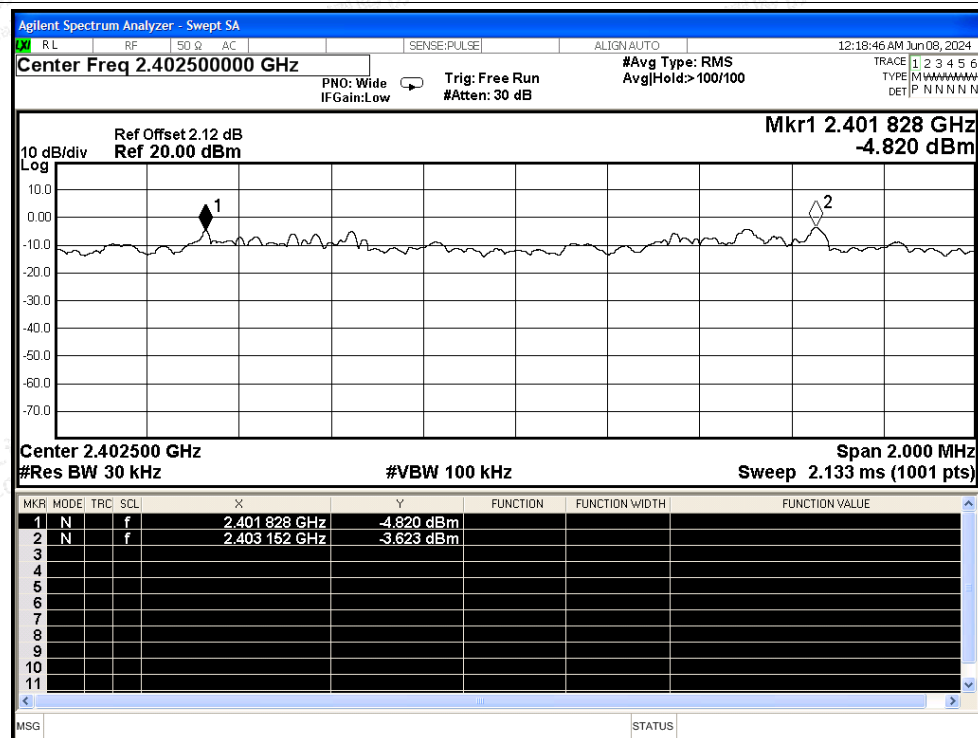


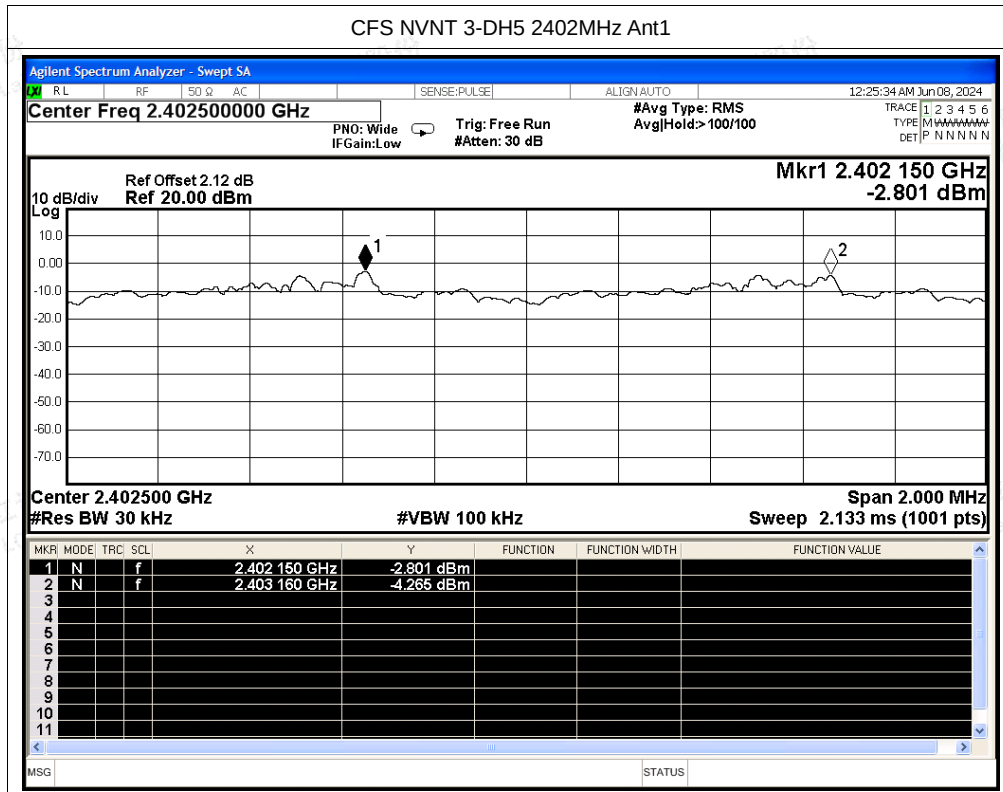
Test Graphs

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	314.138	109	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.88	316.8	110	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	326.118	113	31600	400	Pass

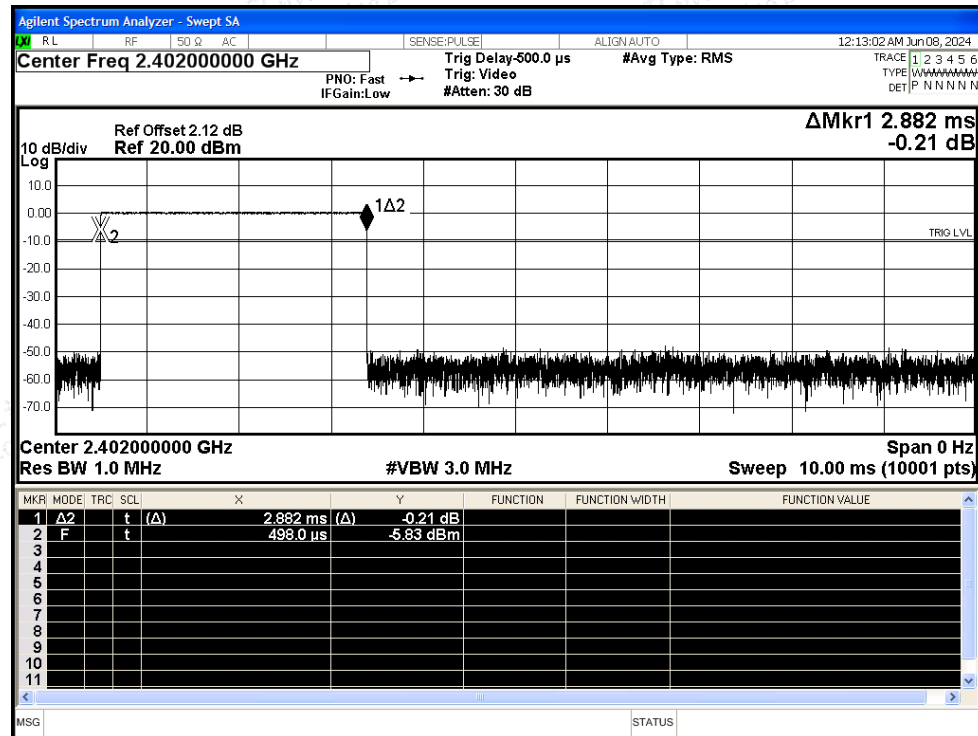


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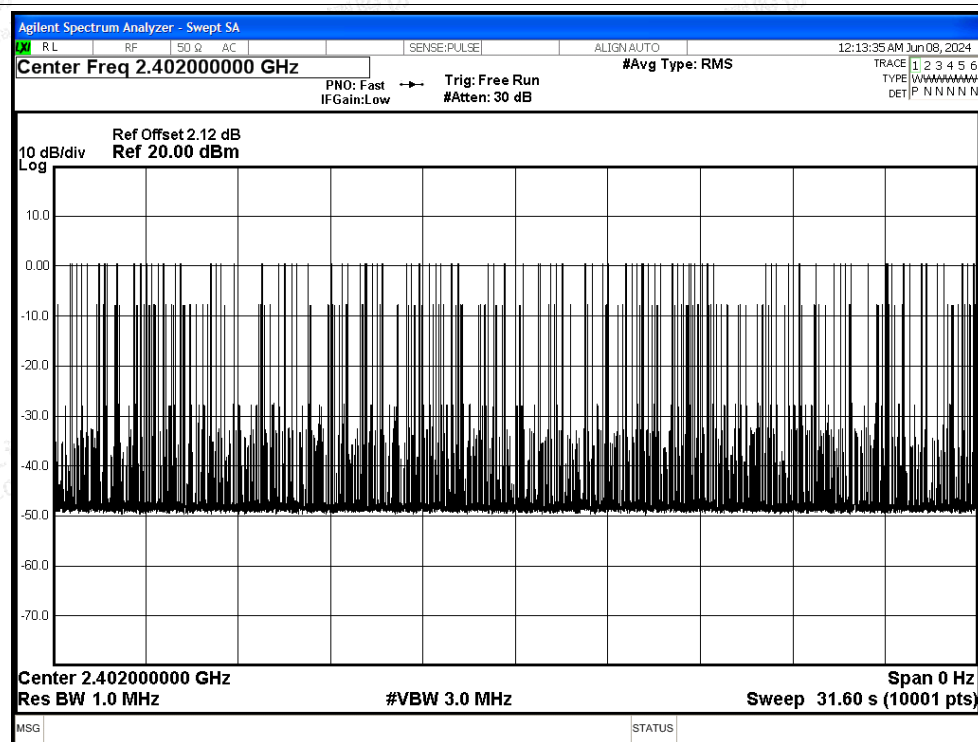


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

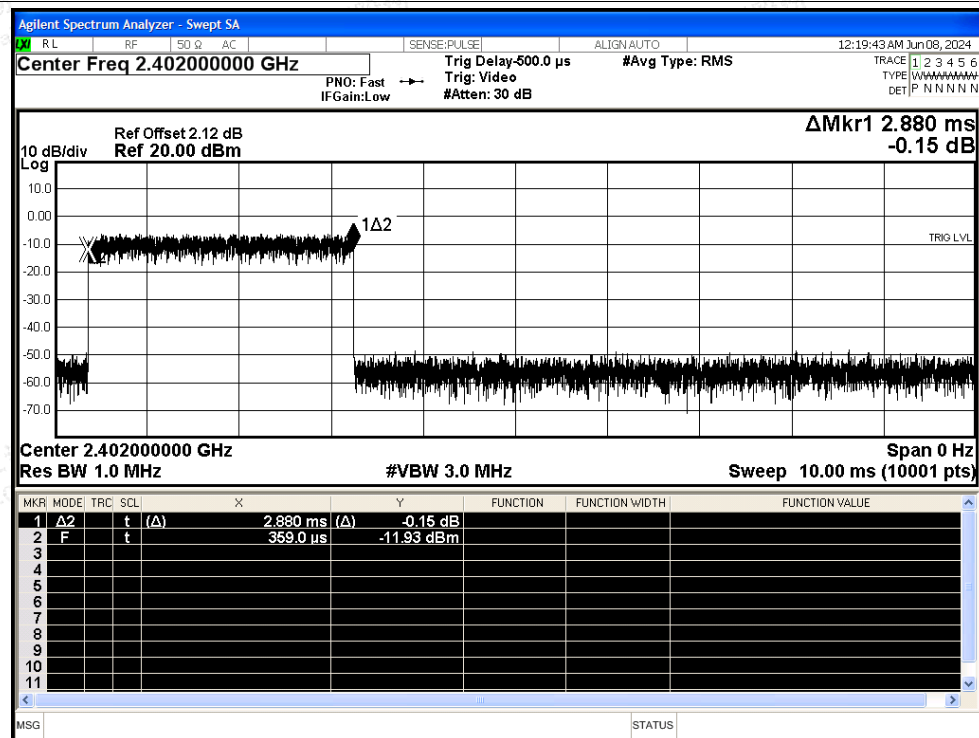


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

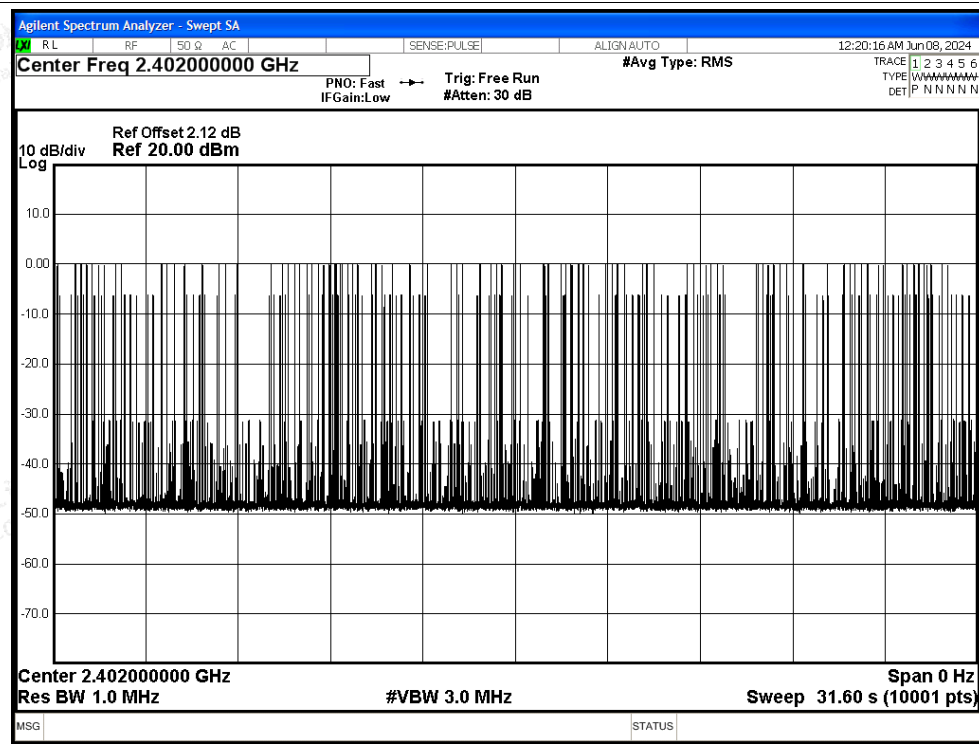




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

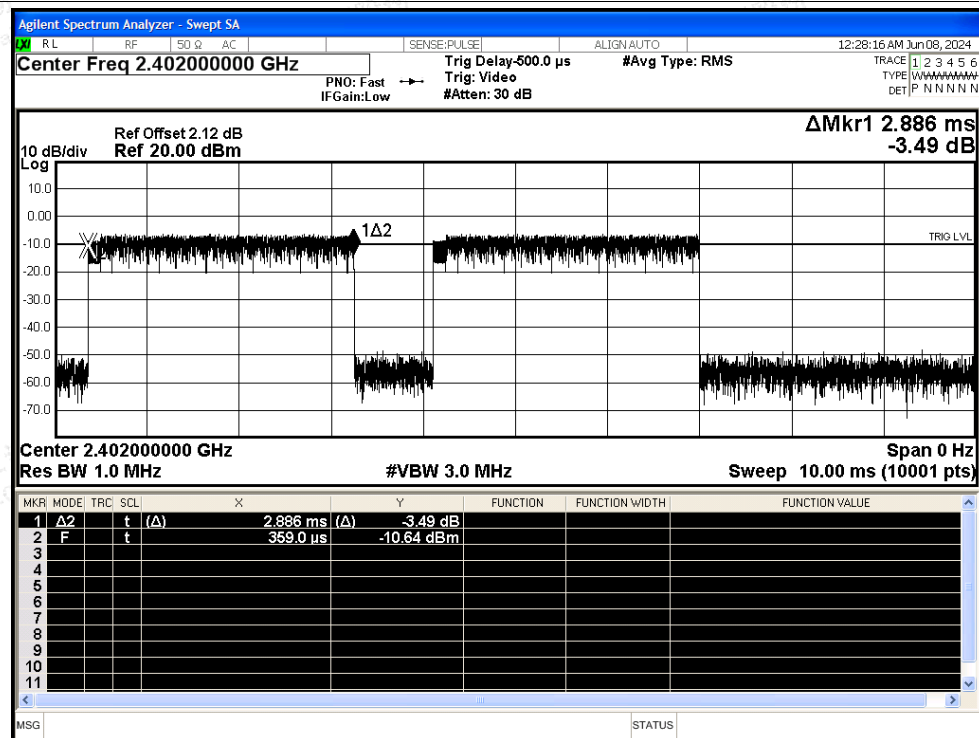


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

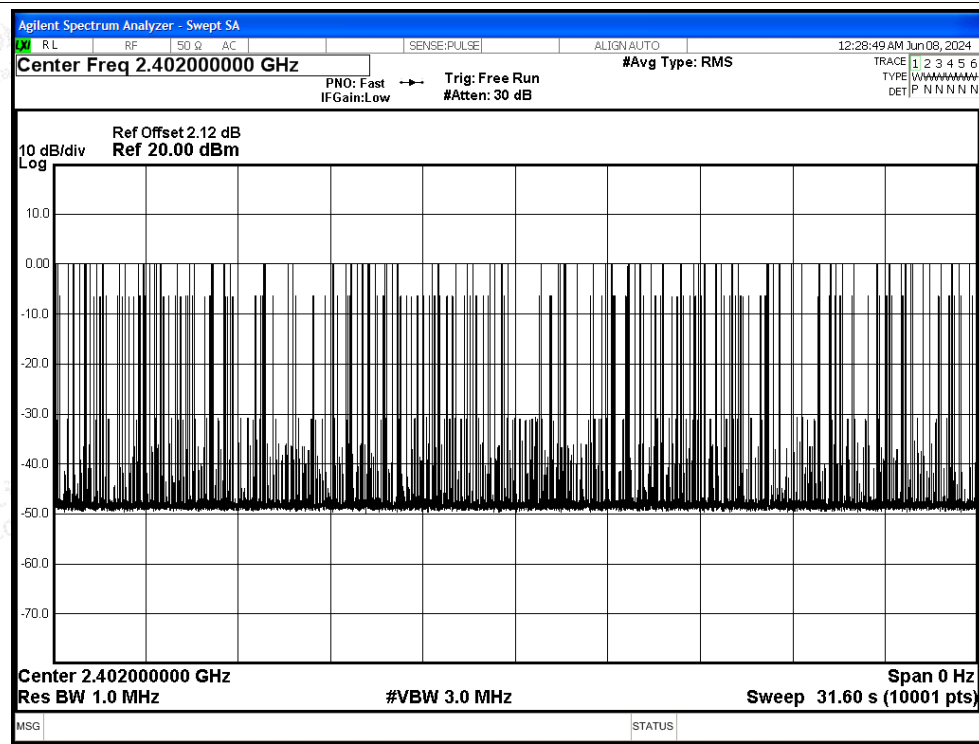




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

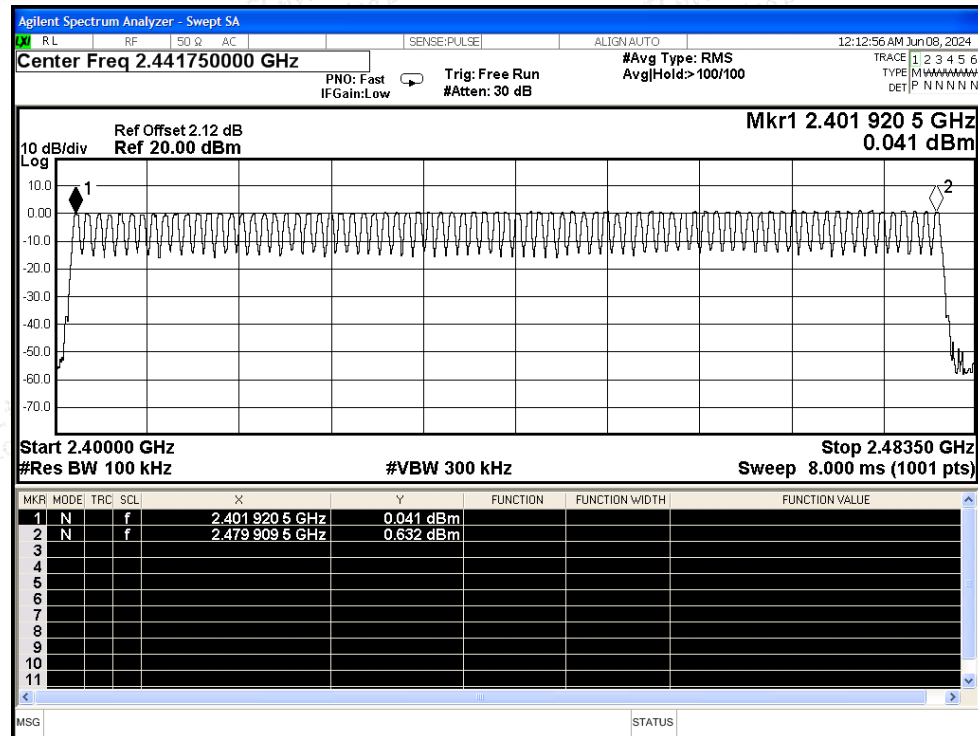


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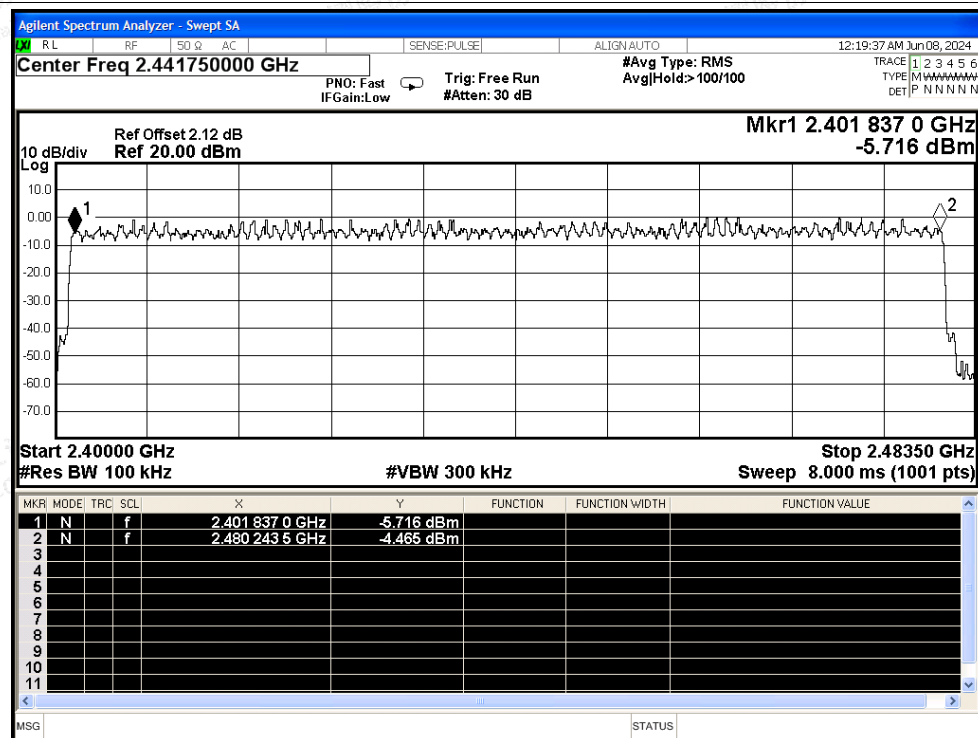


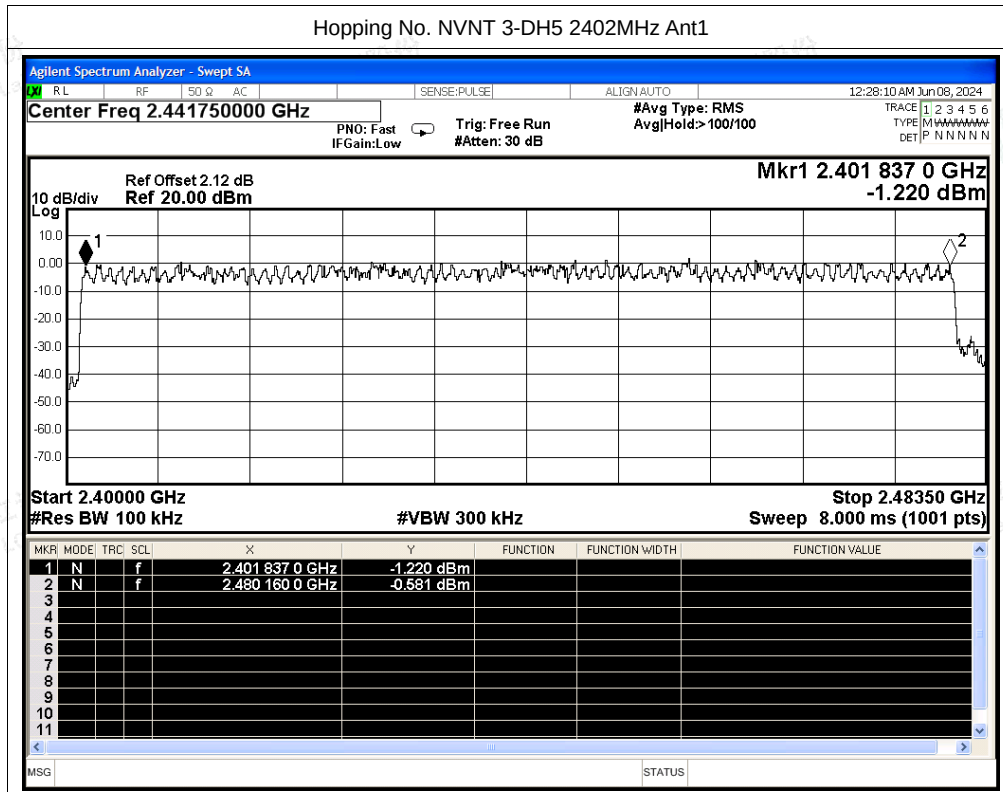
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1







A.6 Band Edge

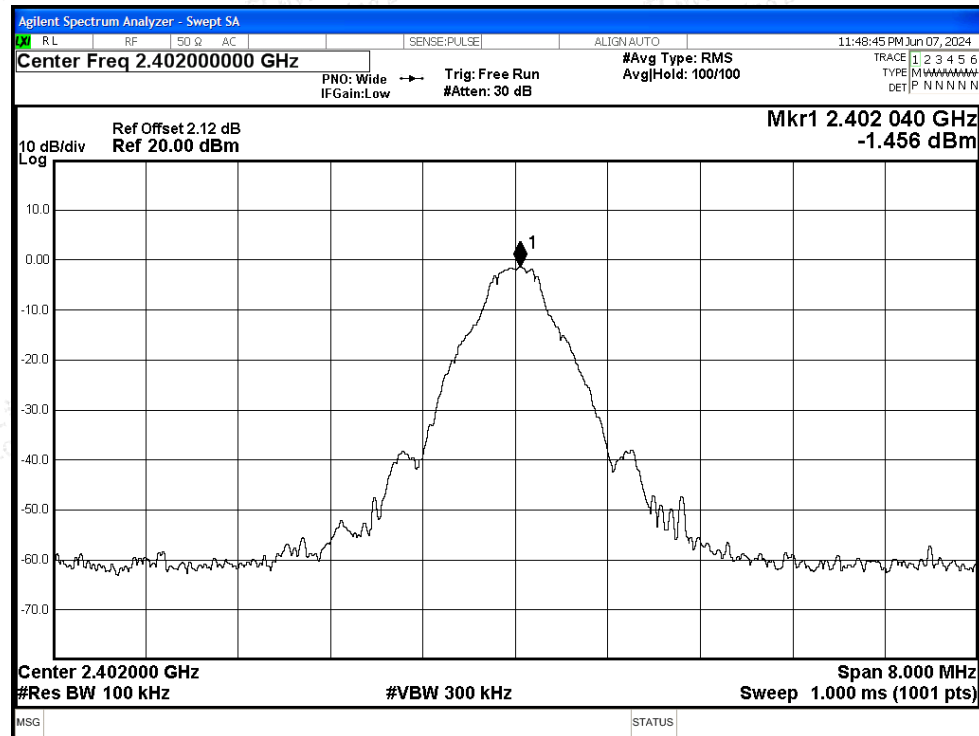
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.13	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.35	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.25	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.38	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.43	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.02	-20	Pass



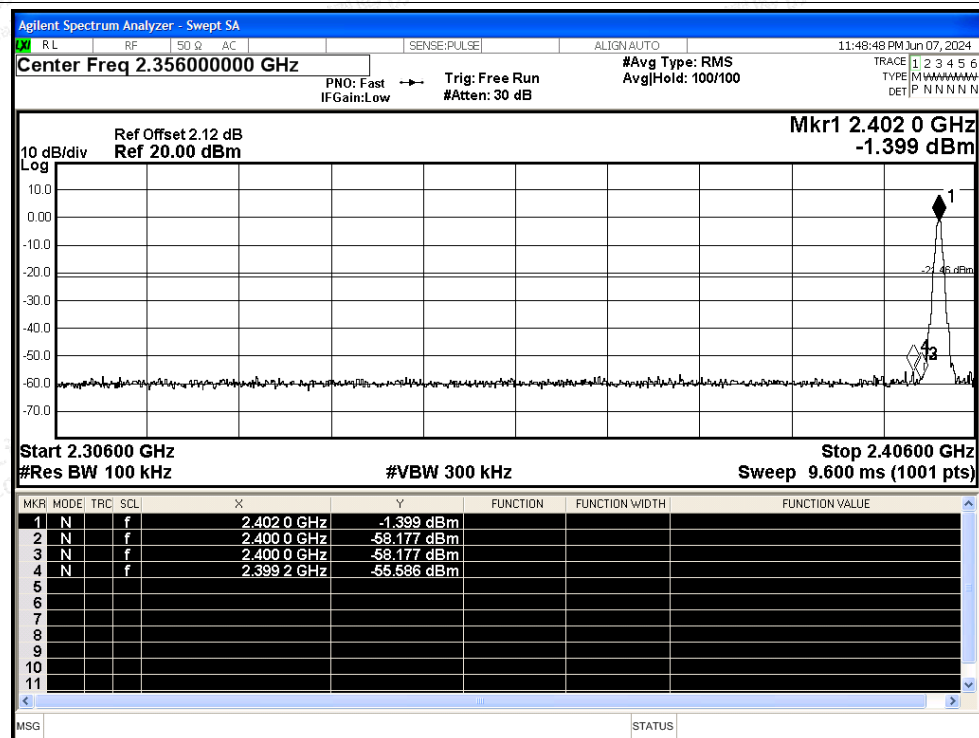


Test Graphs

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

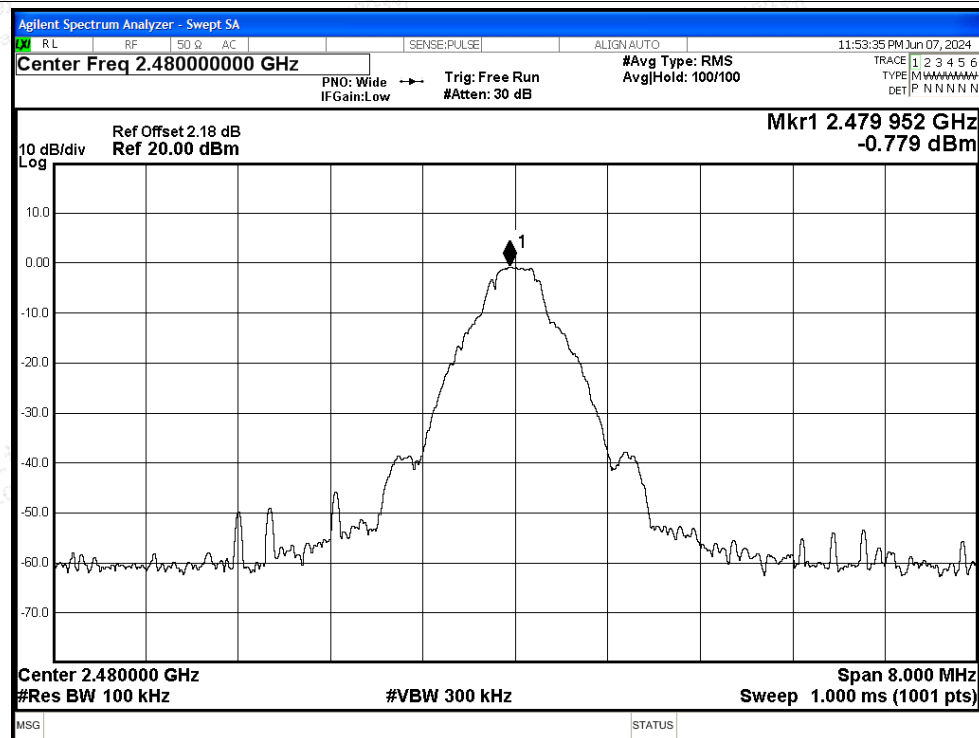


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

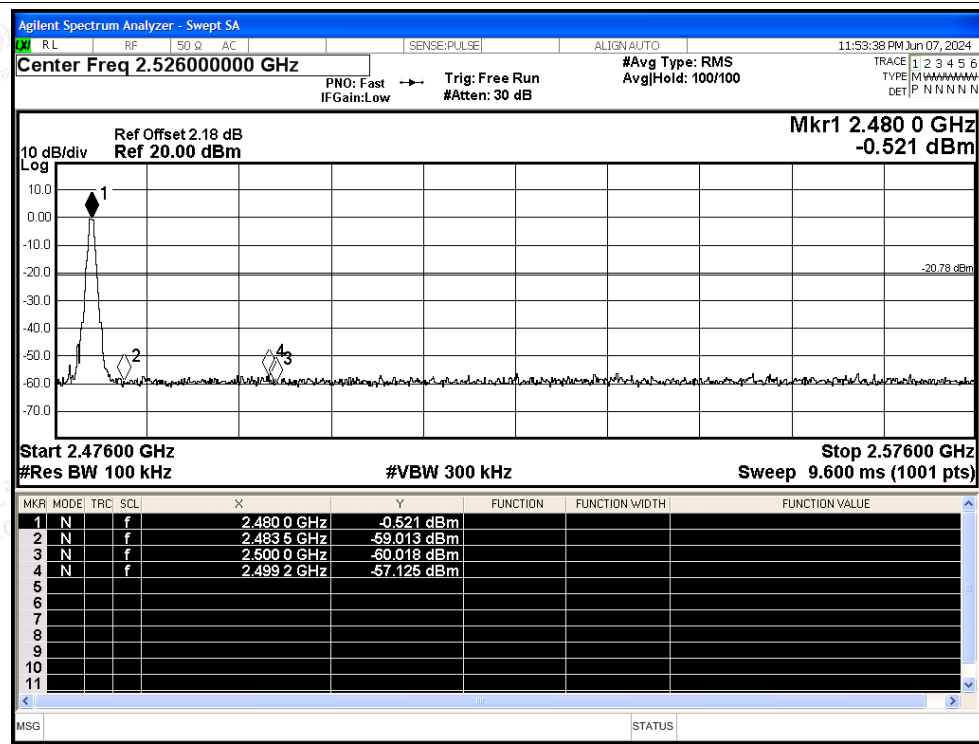




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

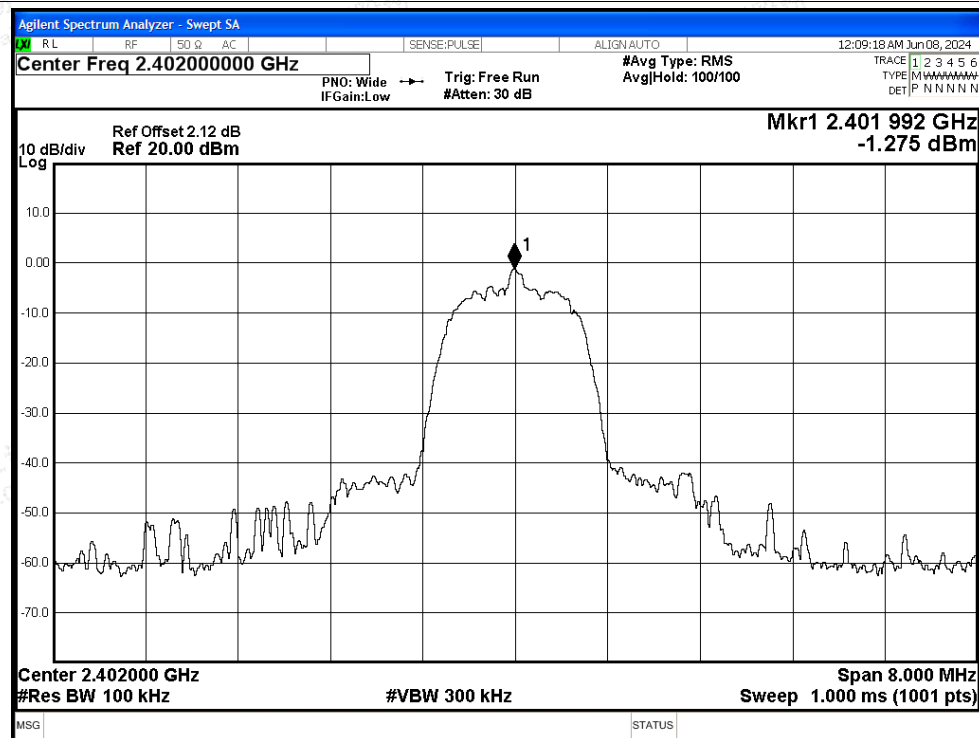


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

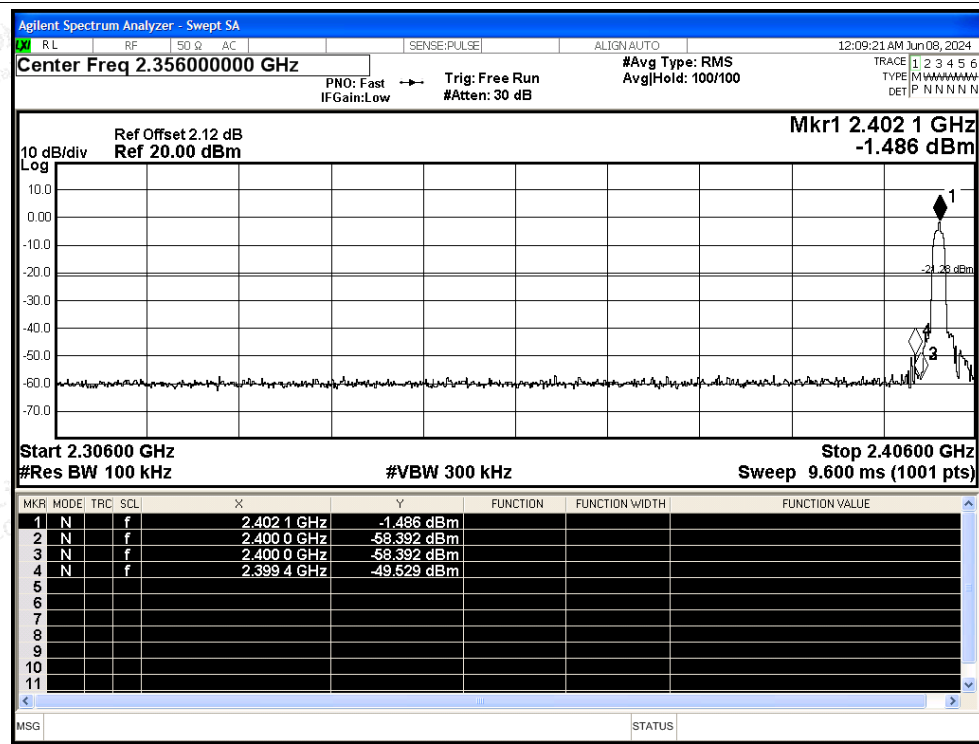




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

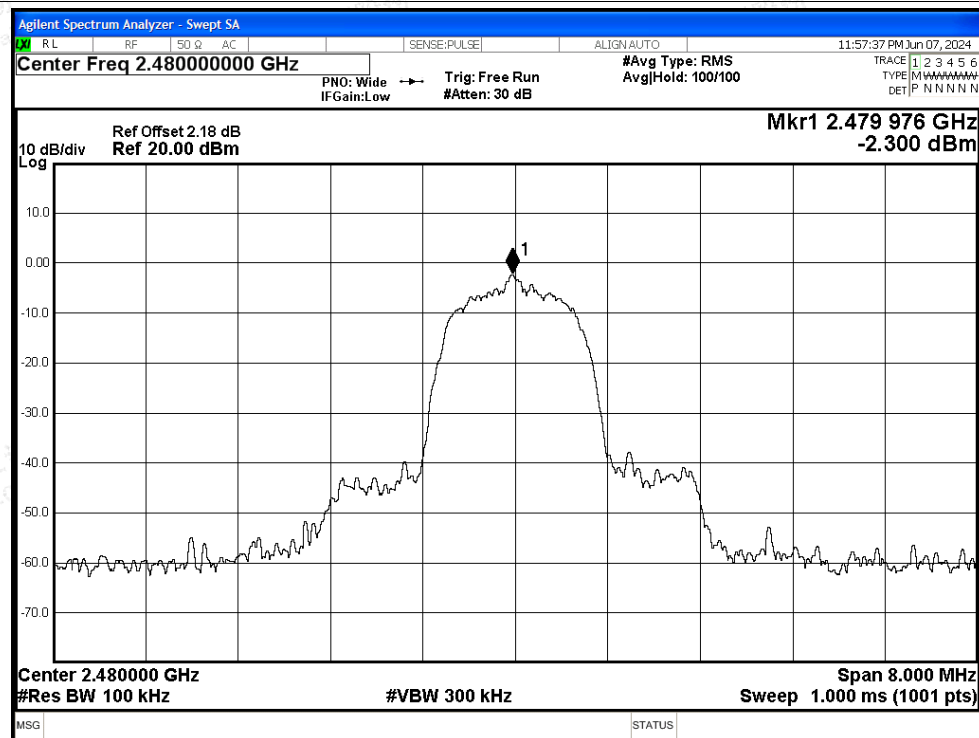


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

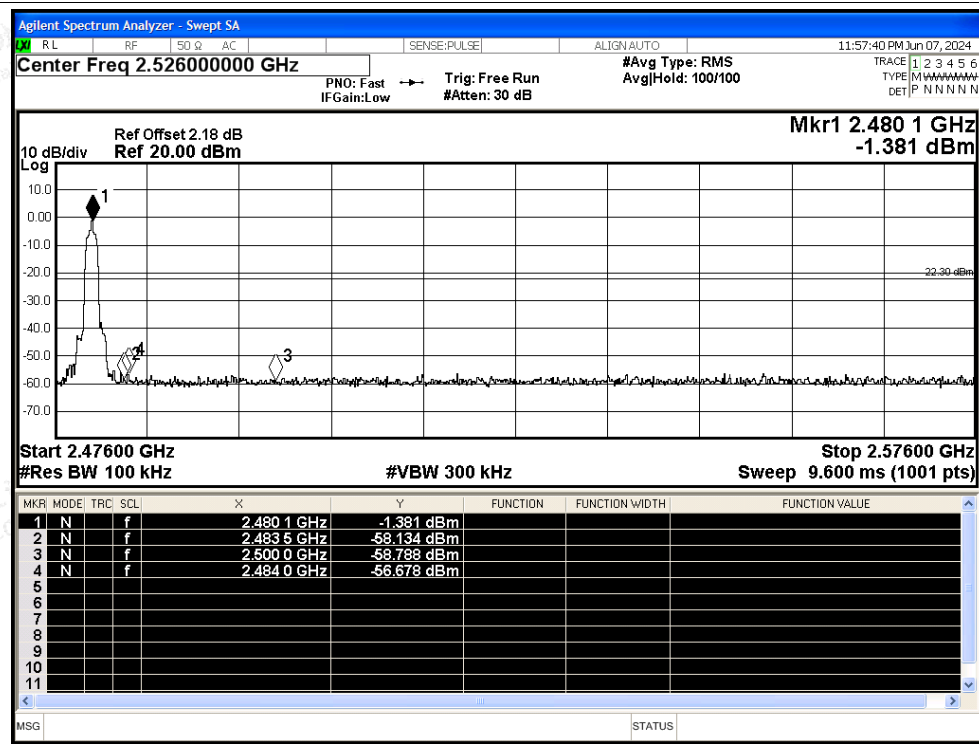




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

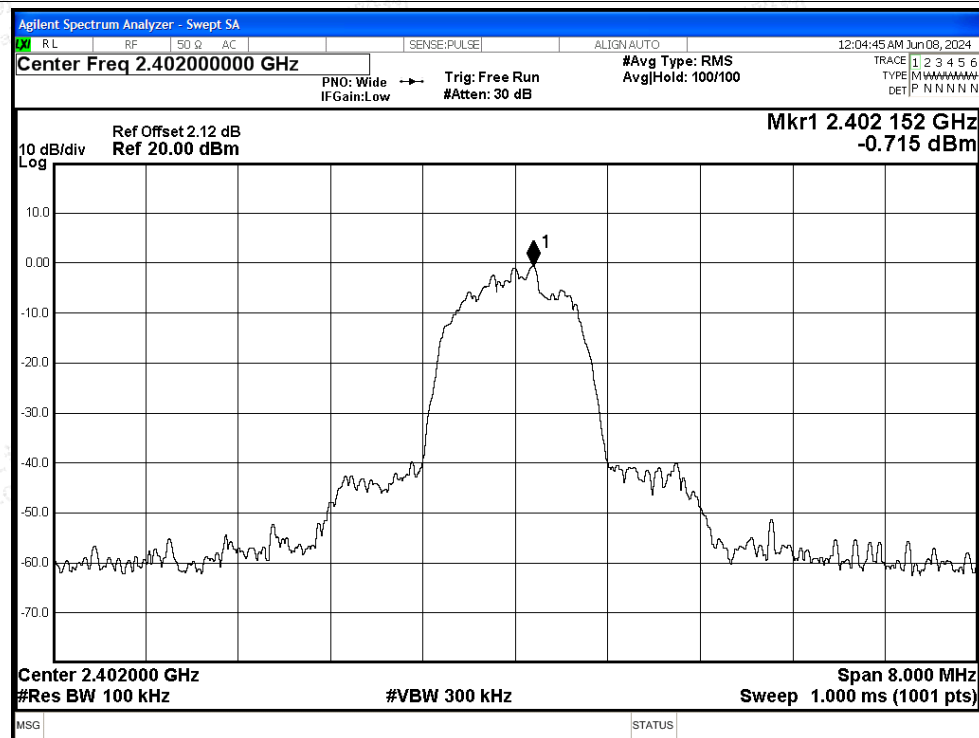


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

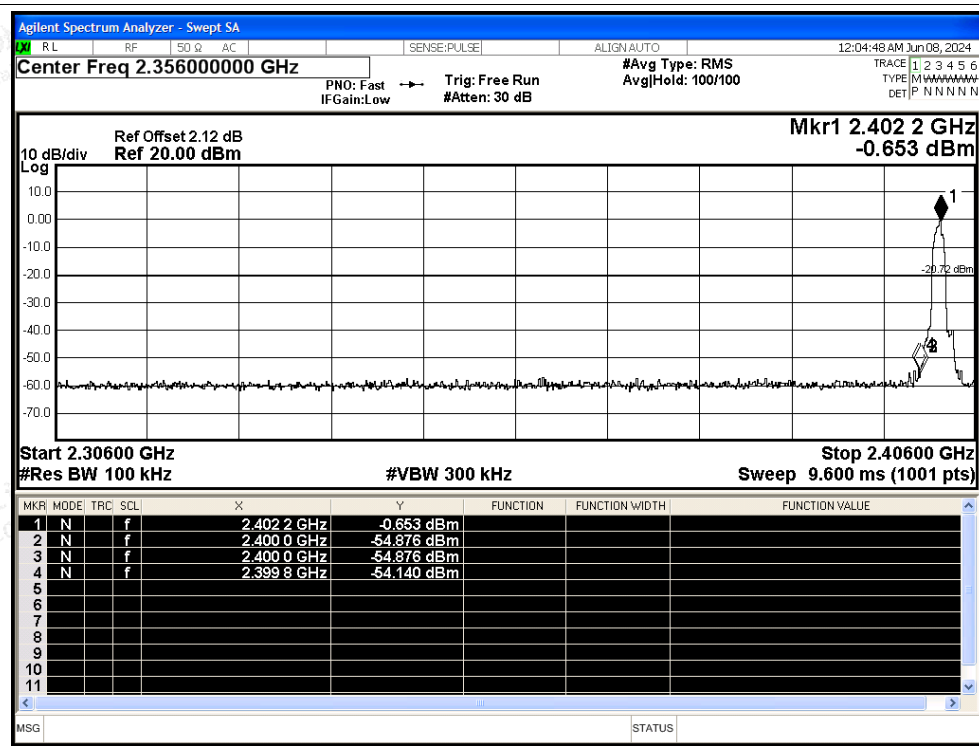




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

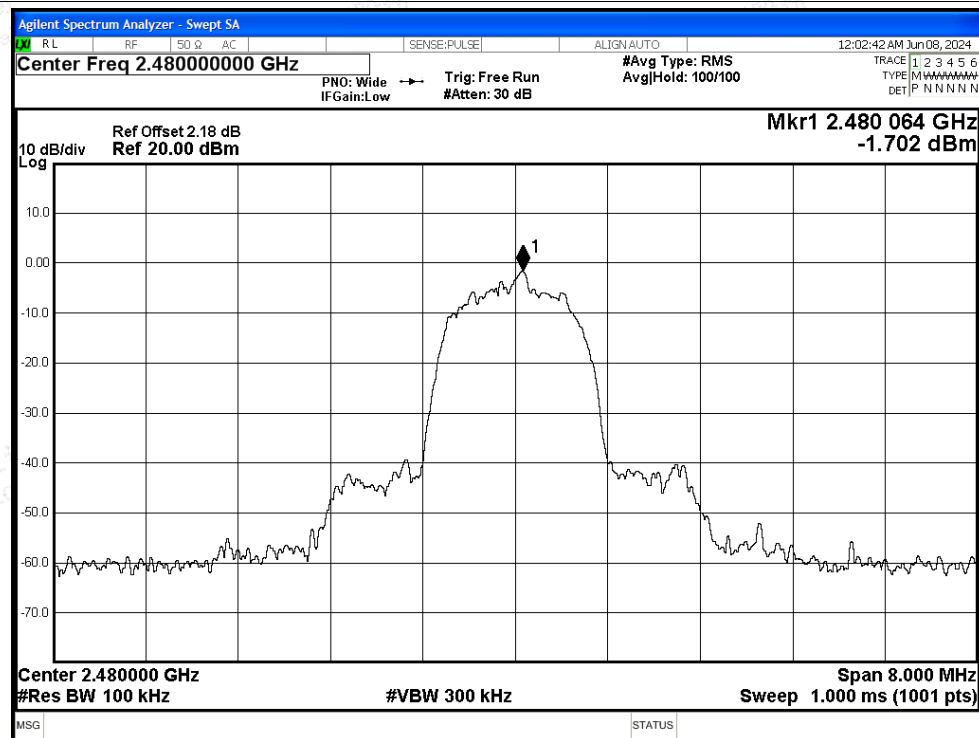


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

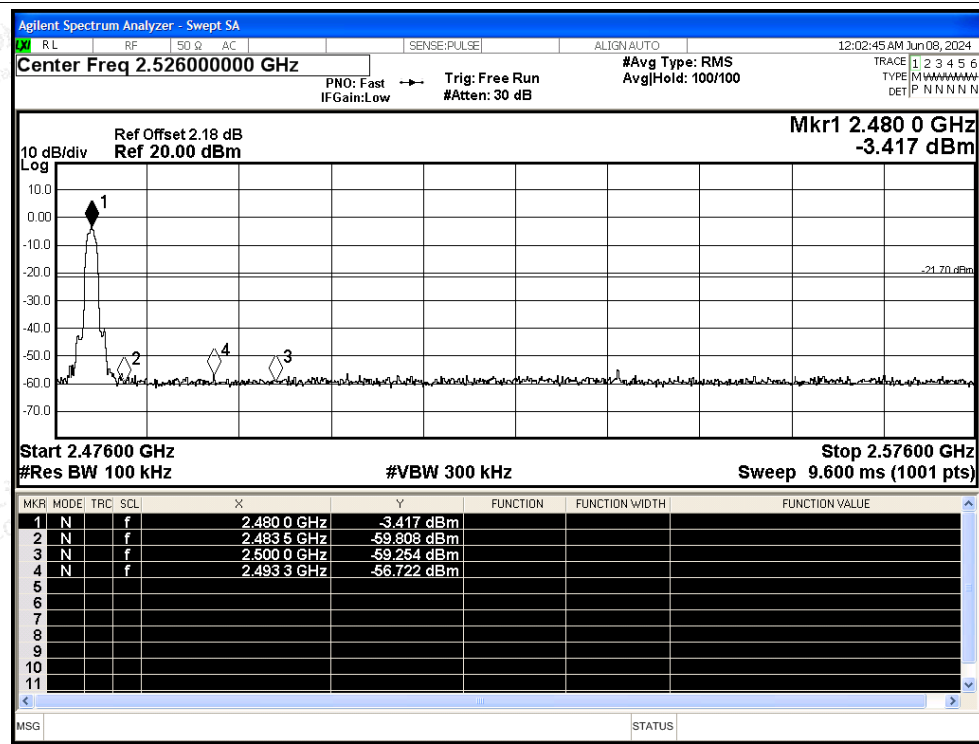




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

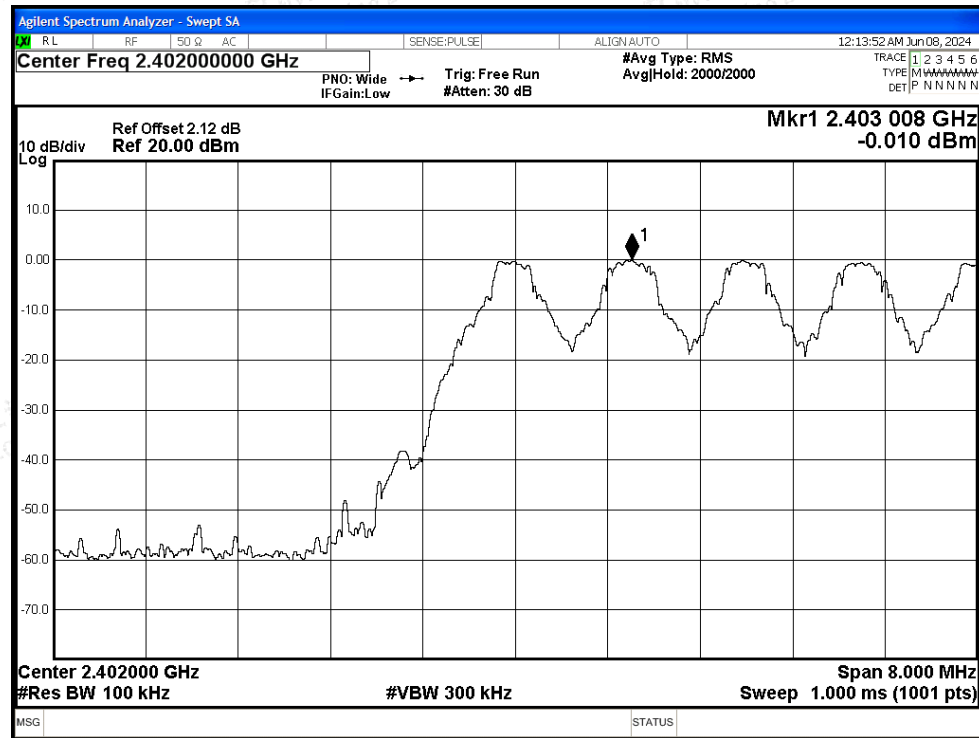
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-49.05	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.41	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.07	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.55	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.19	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.49	-20	Pass



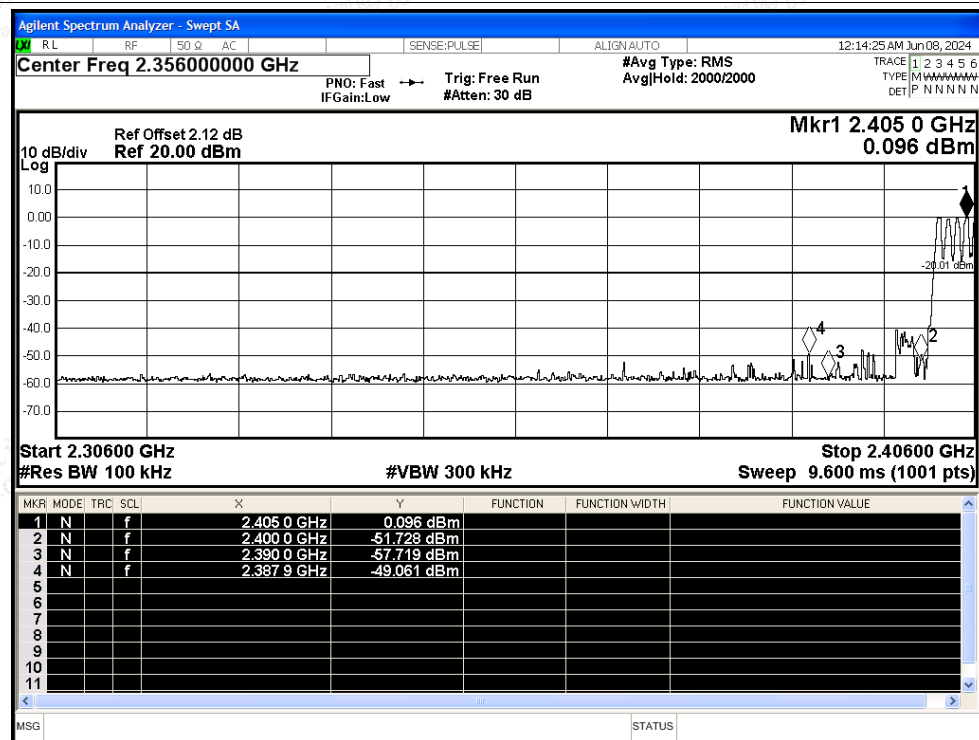


Test Graphs

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

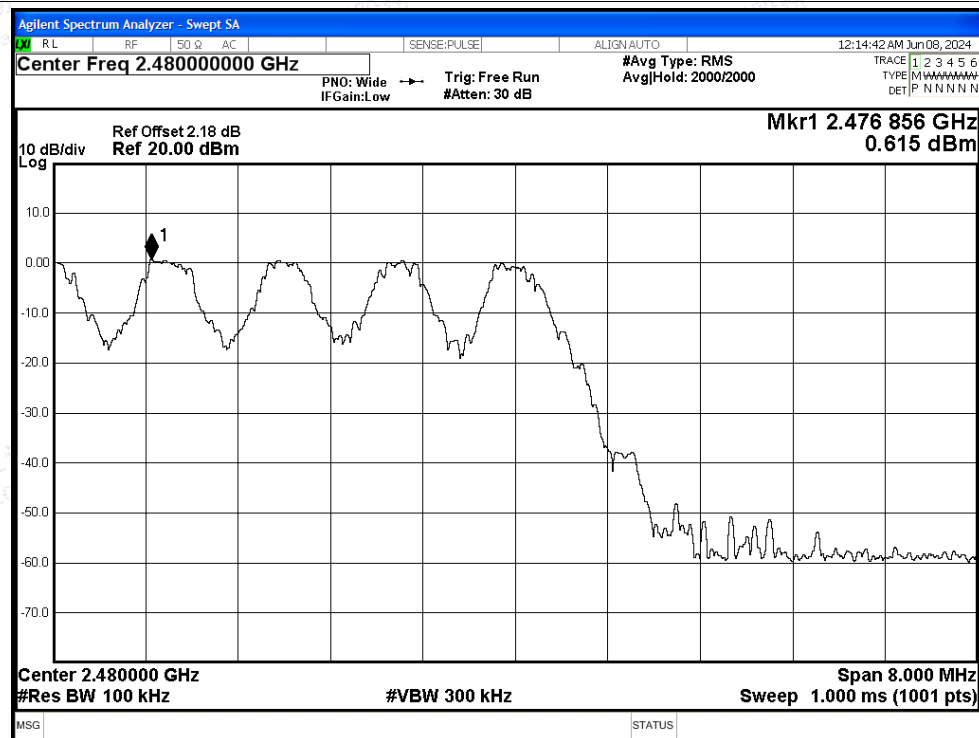


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

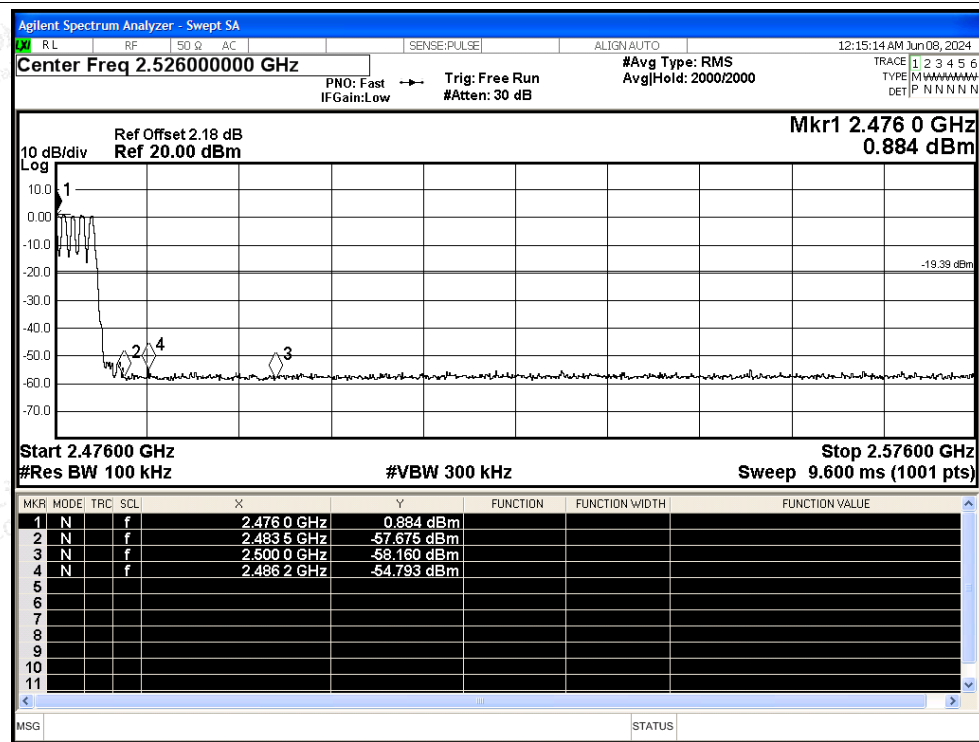


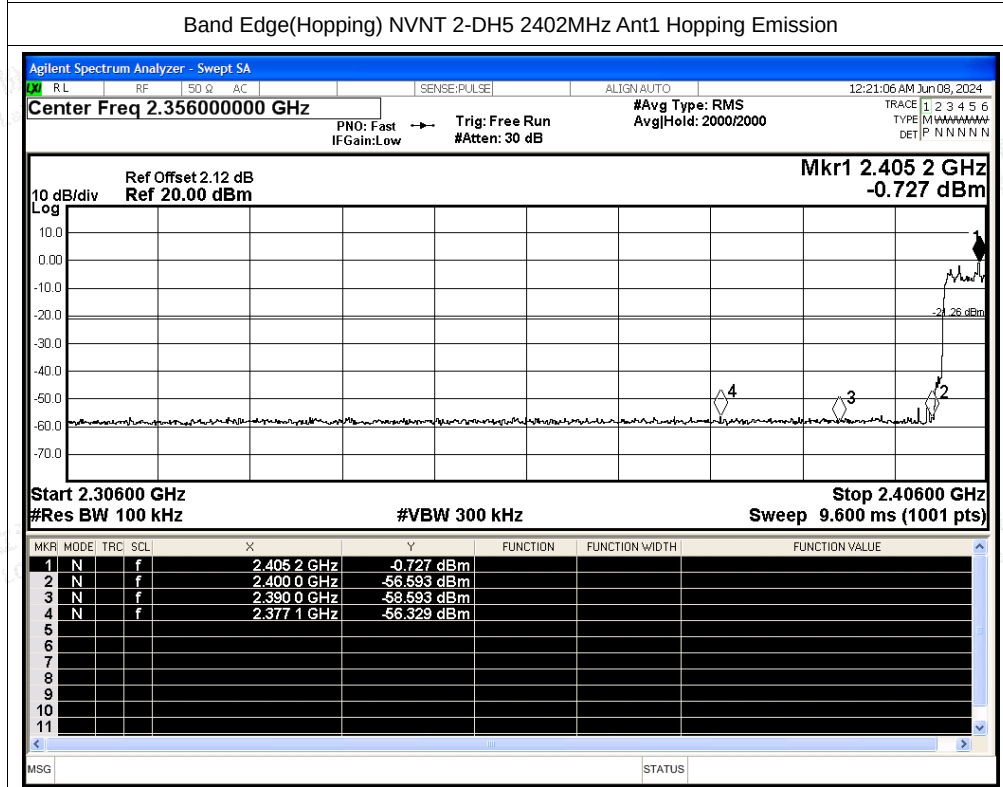
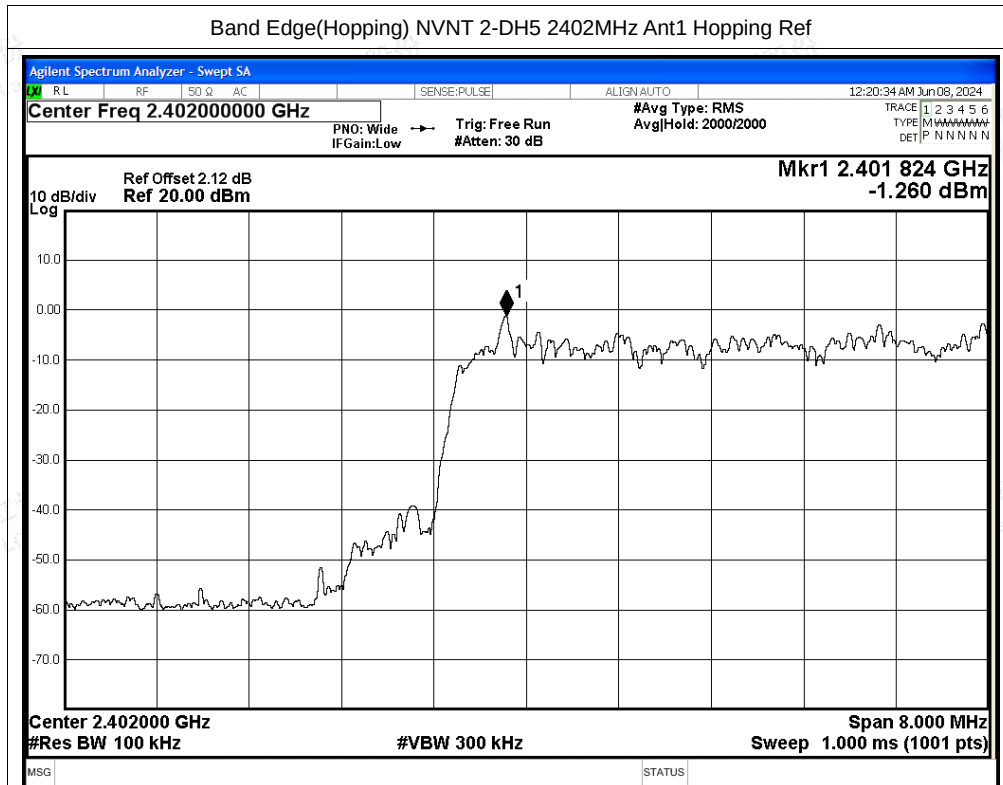


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



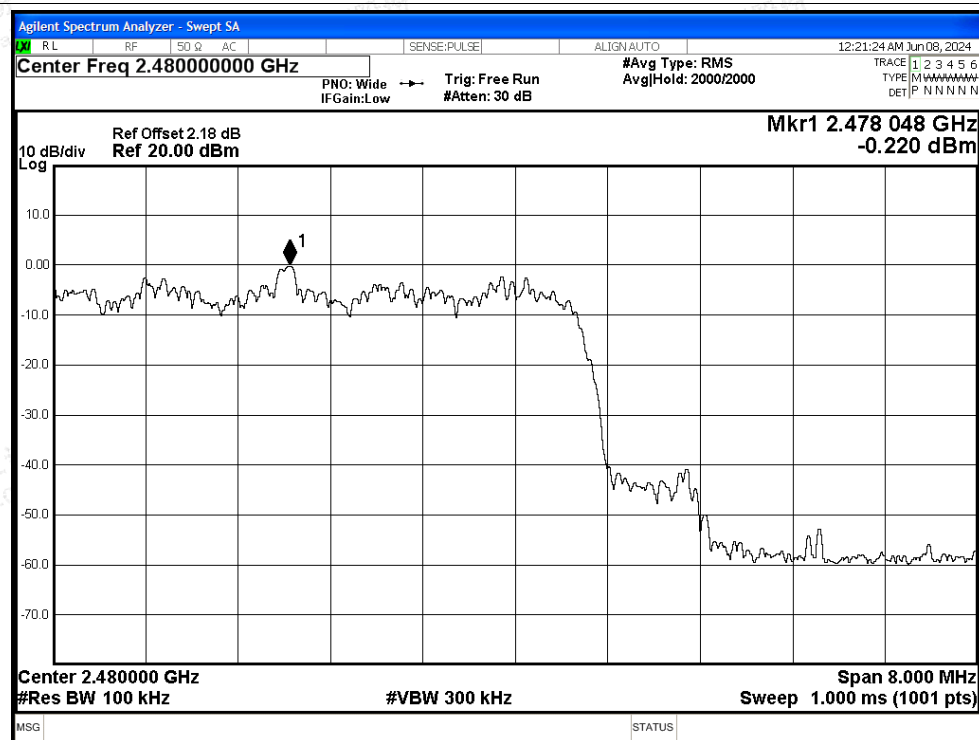
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



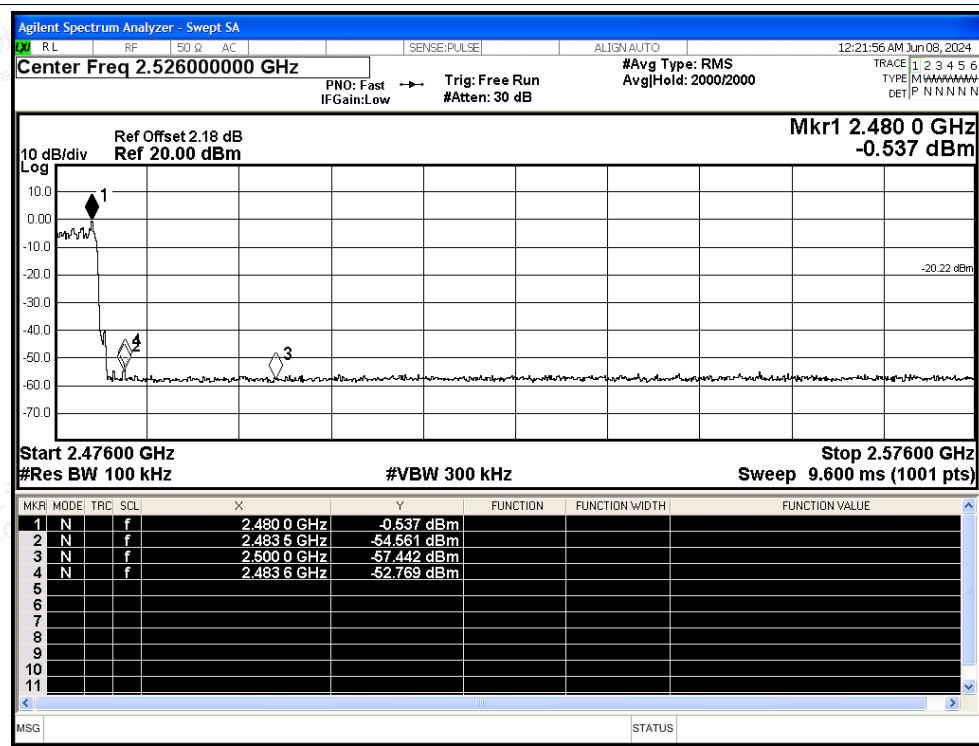


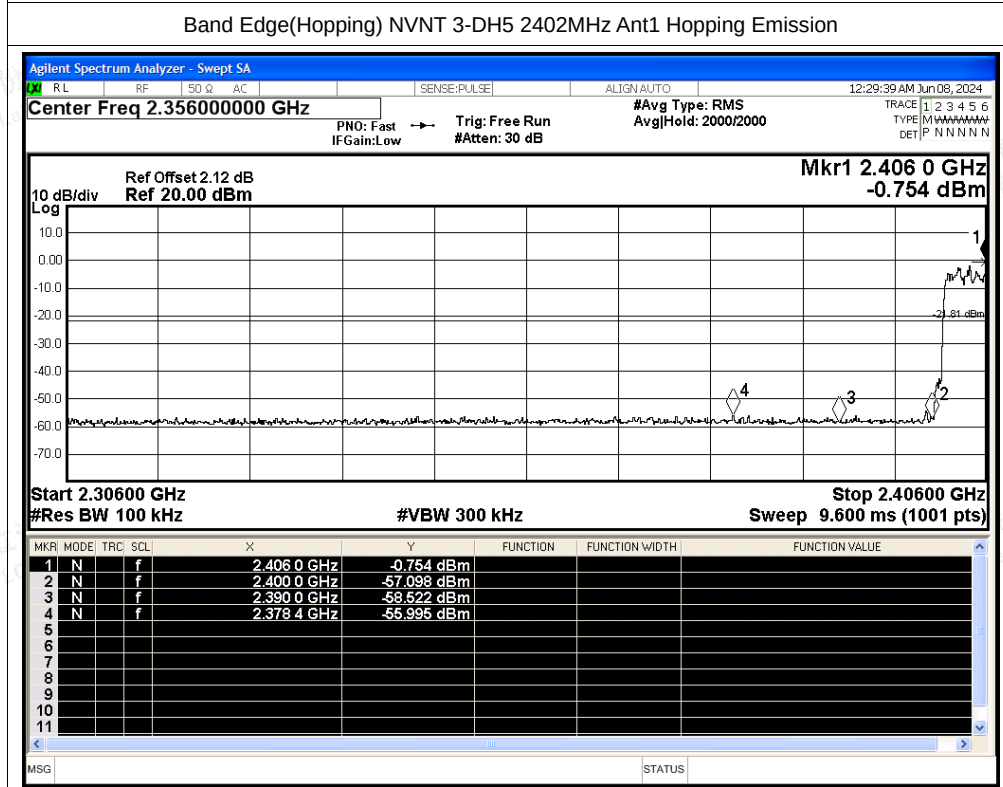
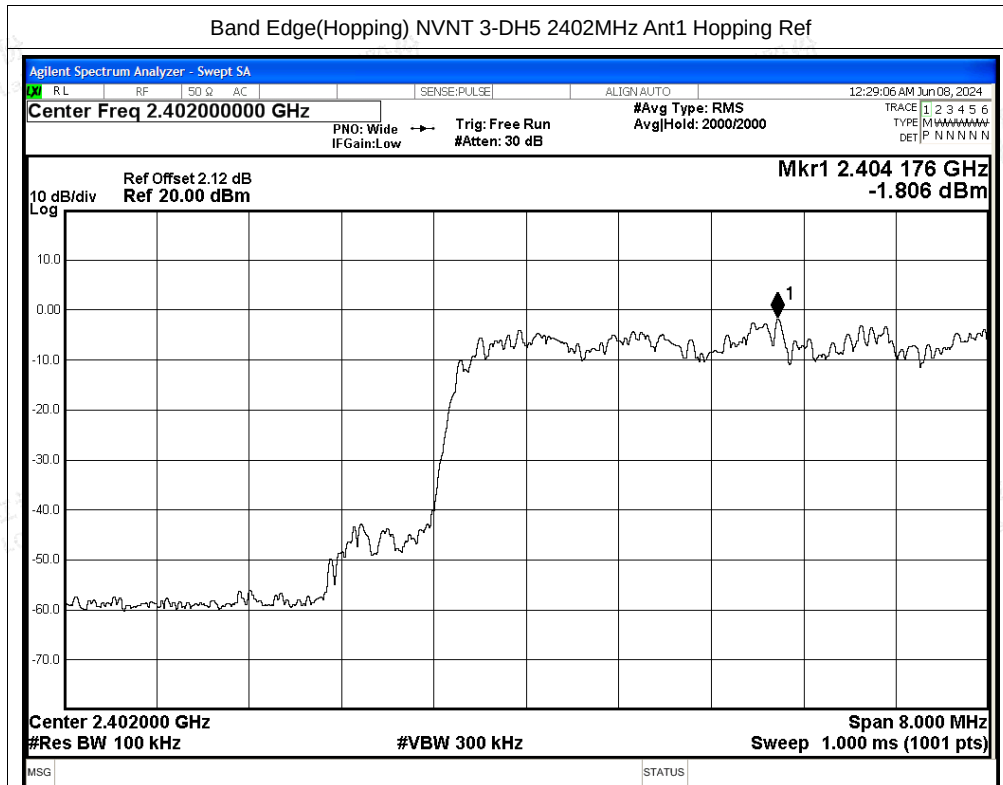


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



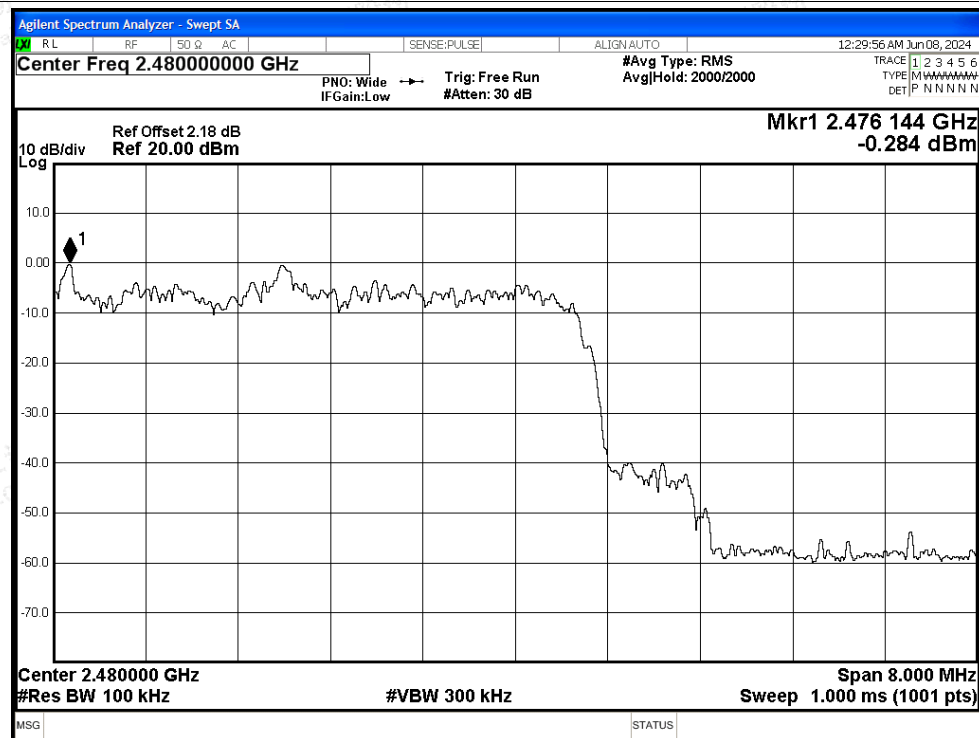
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



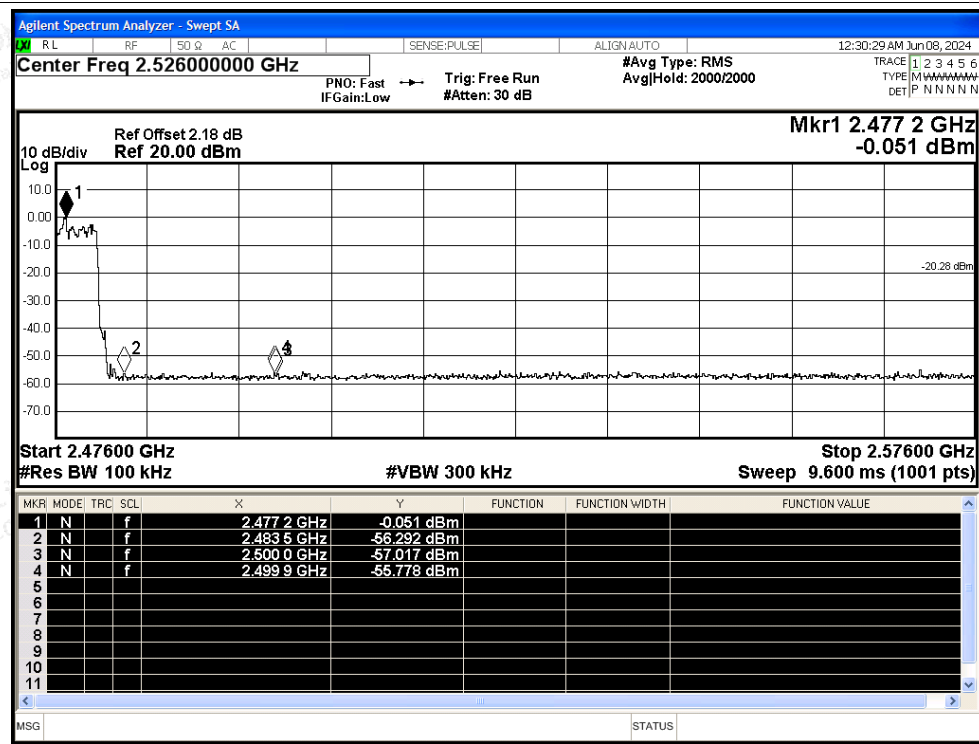




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-52.23	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.26	-20	Pass
NVNT	1-DH5	2480	Ant1	-54.81	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.15	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.59	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.07	-20	Pass
NVNT	3-DH5	2402	Ant1	-46.06	-20	Pass
NVNT	3-DH5	2441	Ant1	-40.71	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.17	-20	Pass

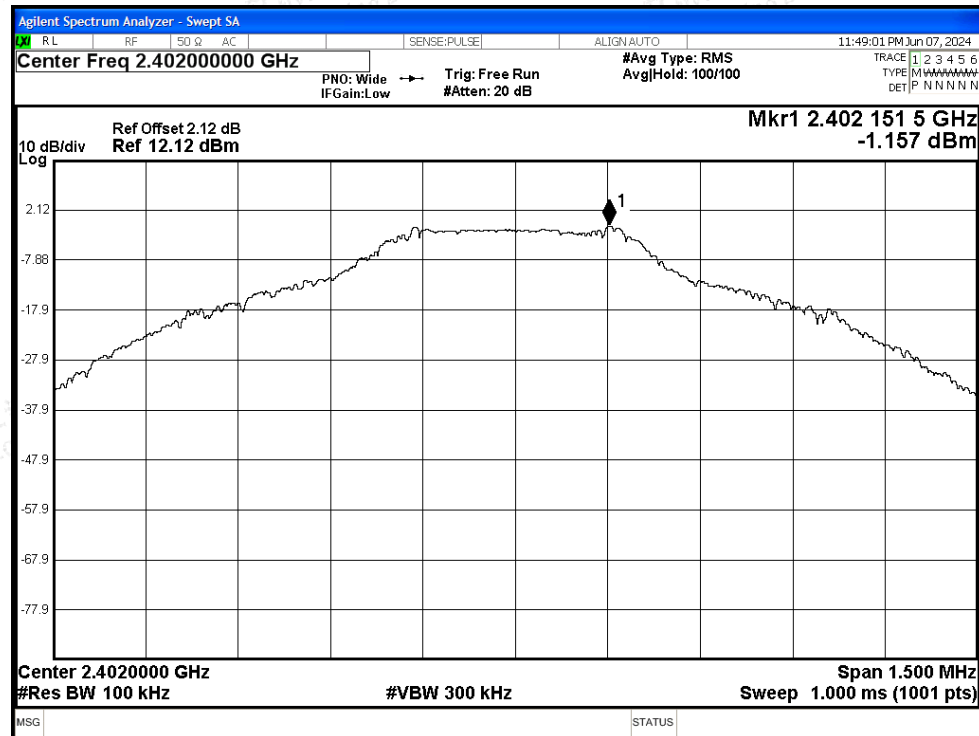


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Scan code to check authenticity

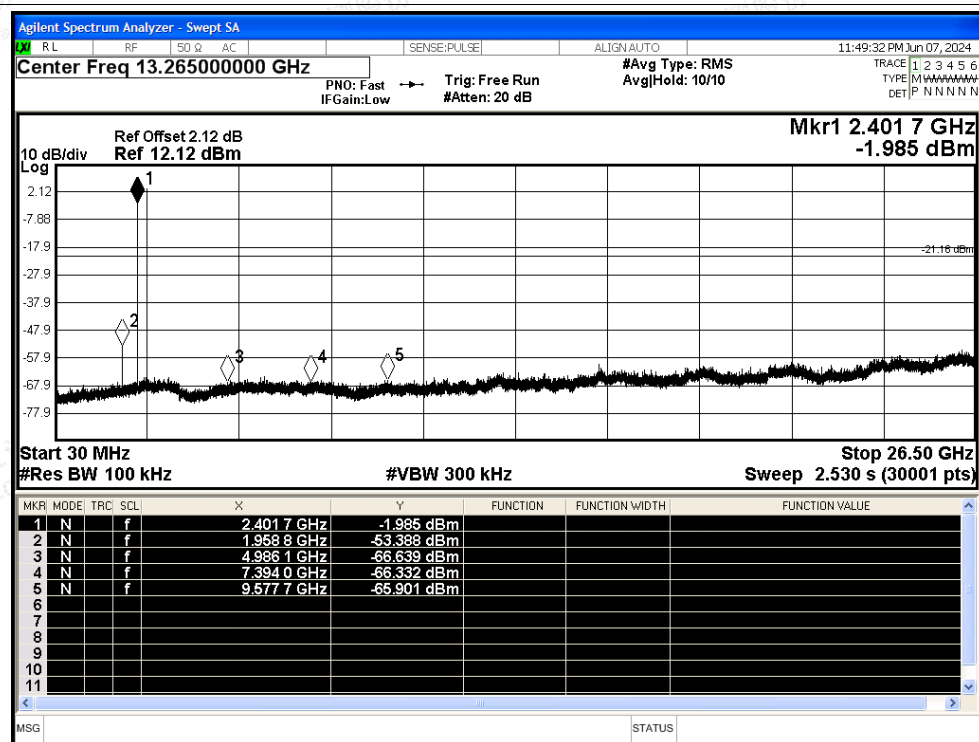


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

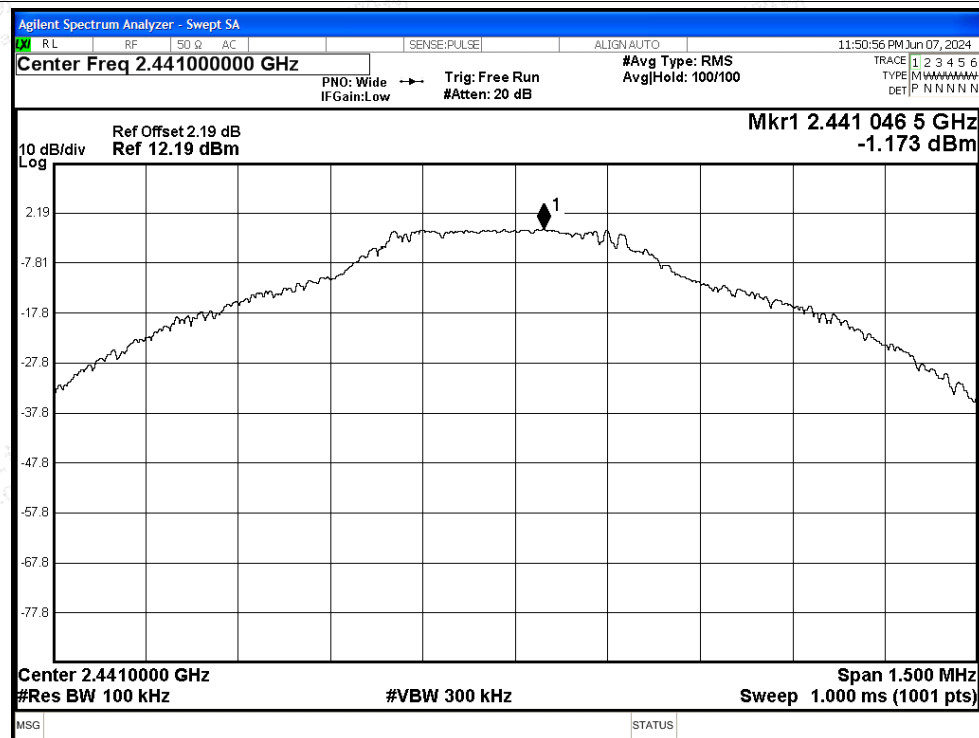


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

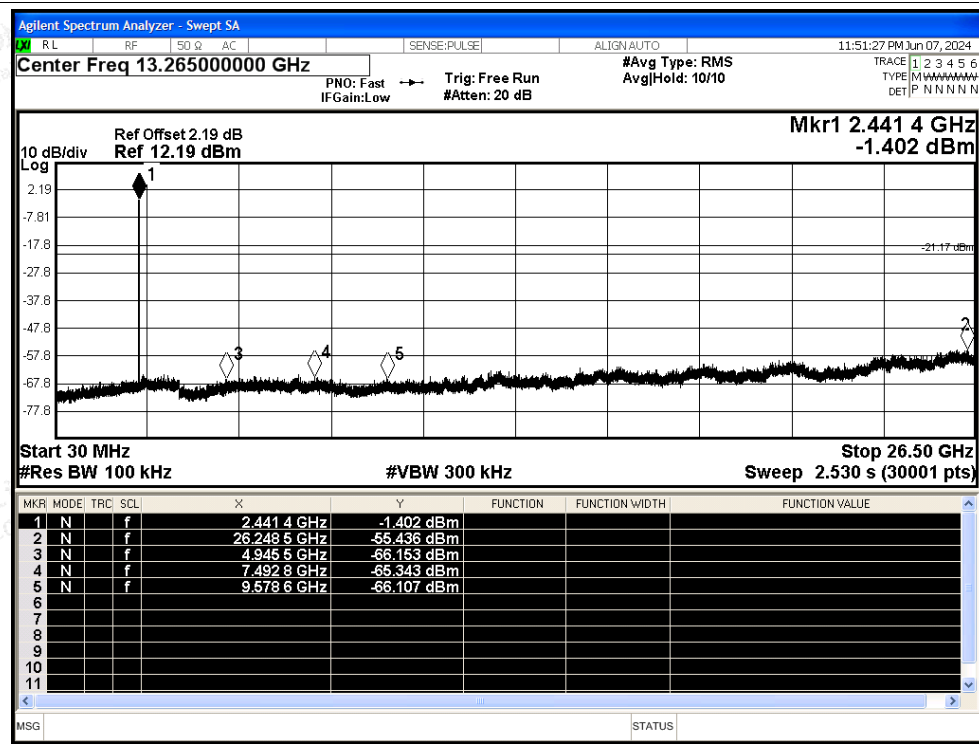




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

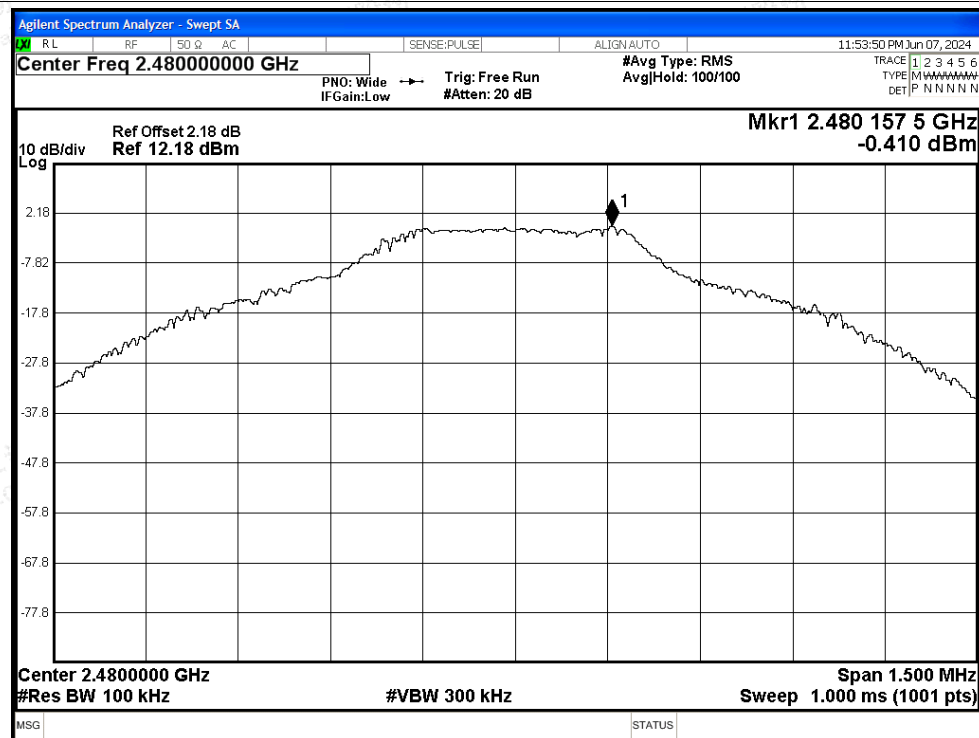


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

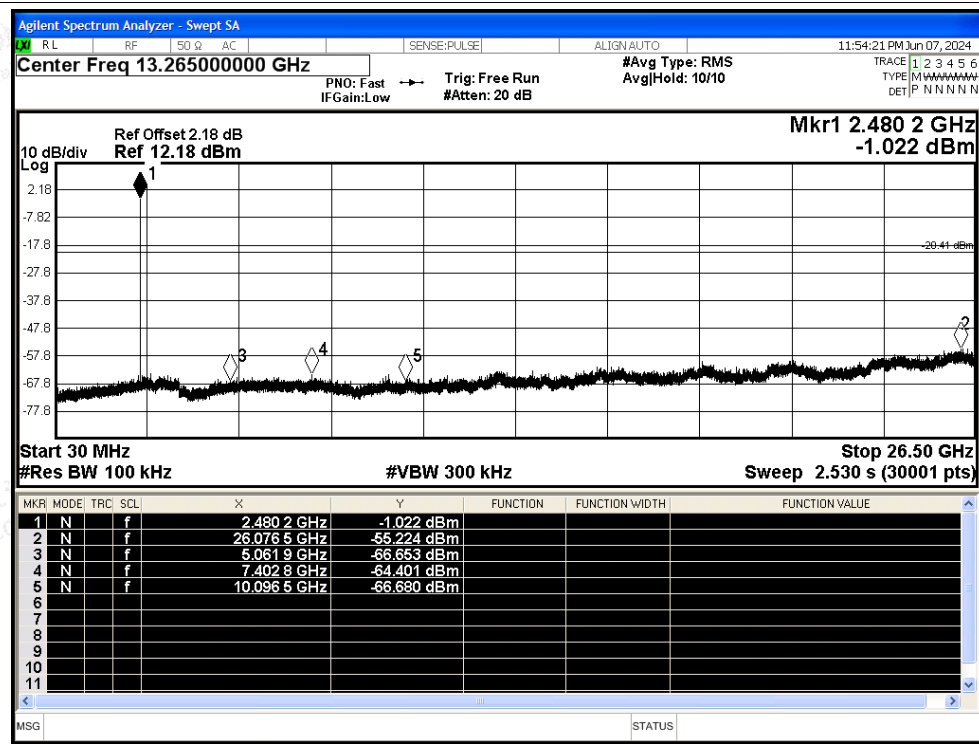




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

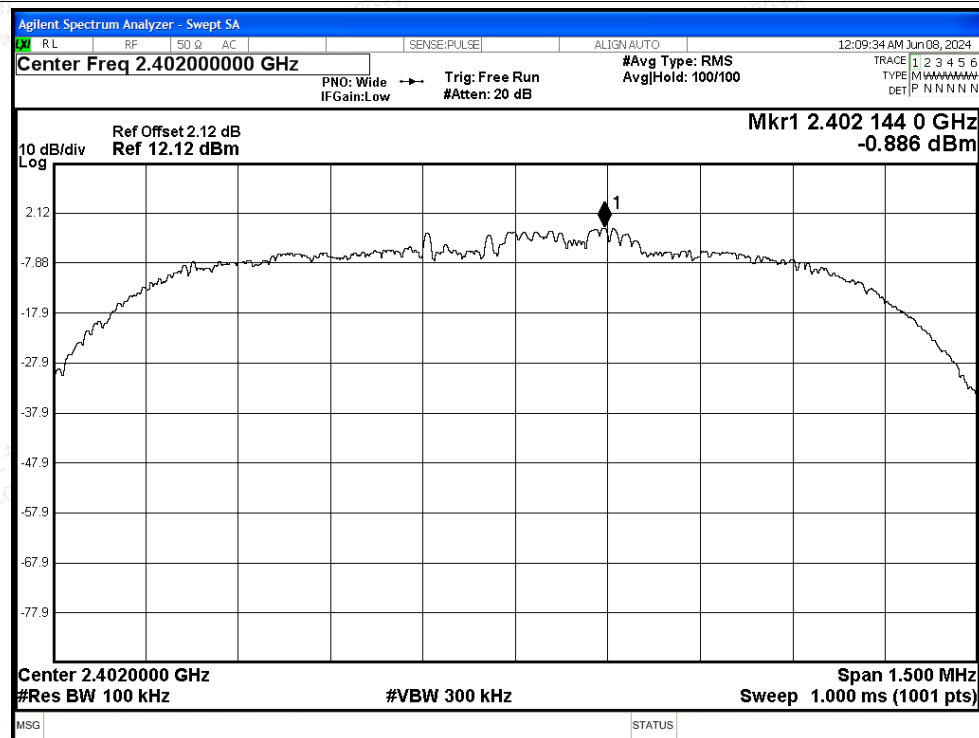


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

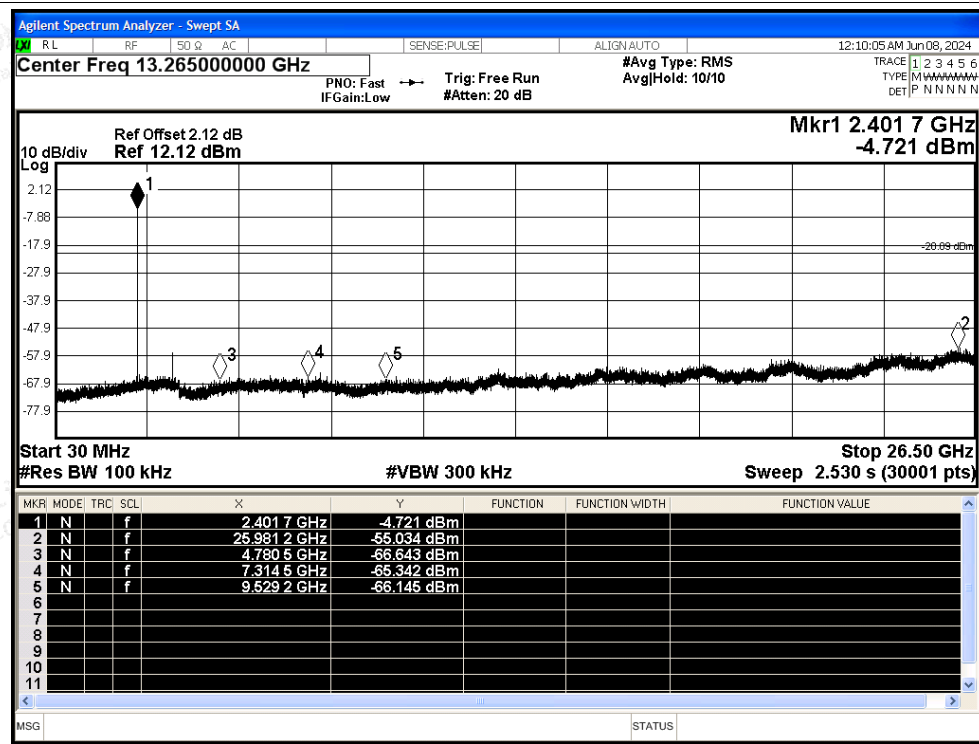




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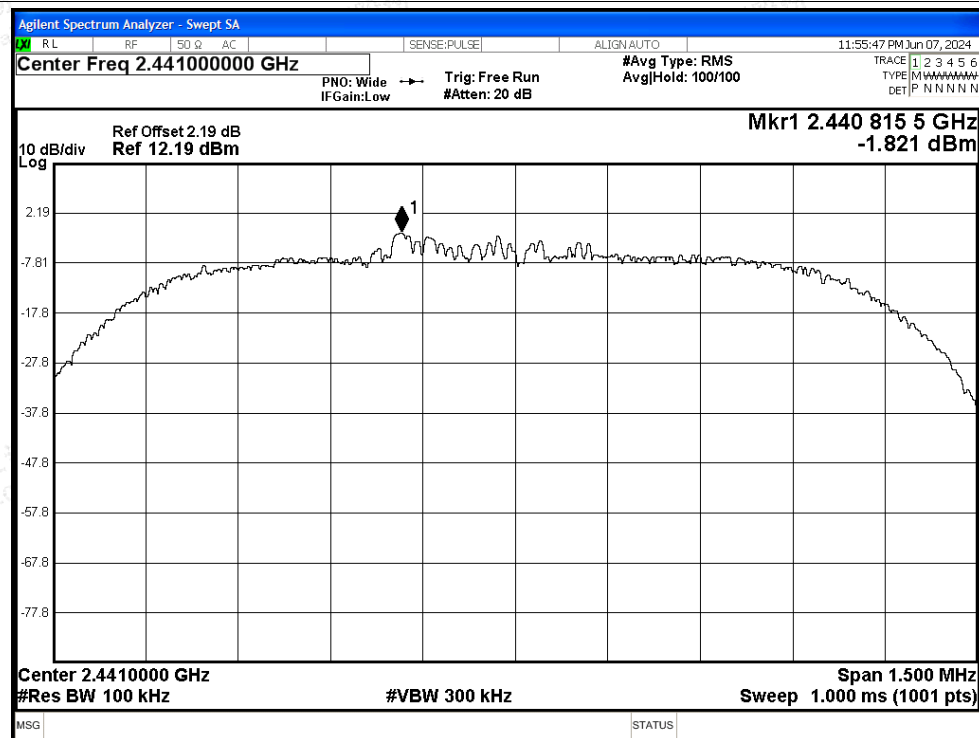


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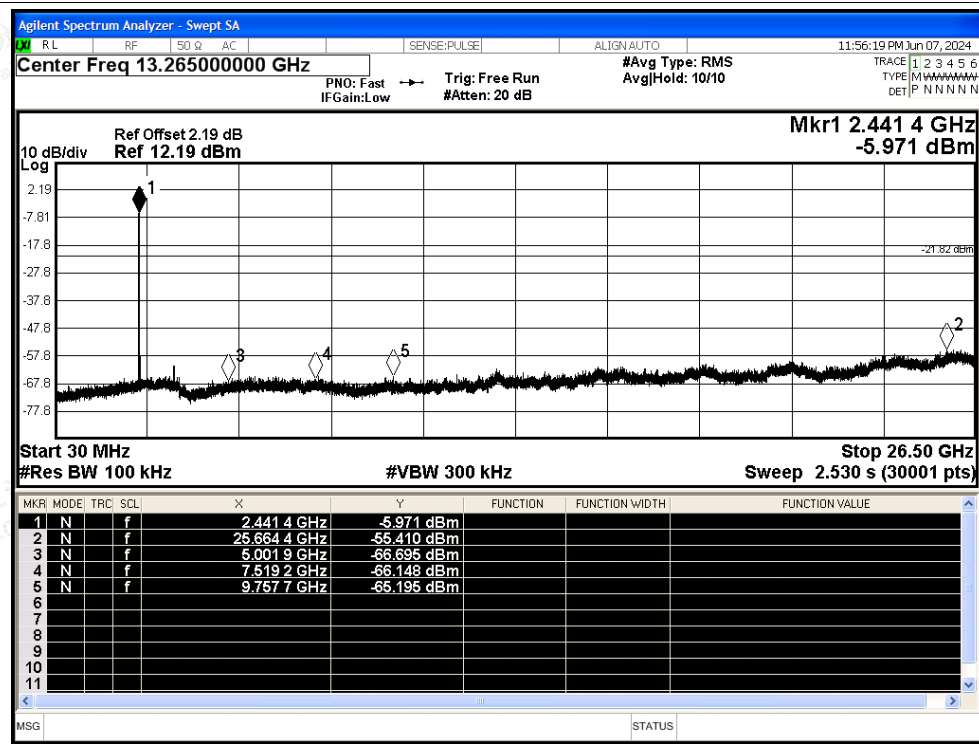




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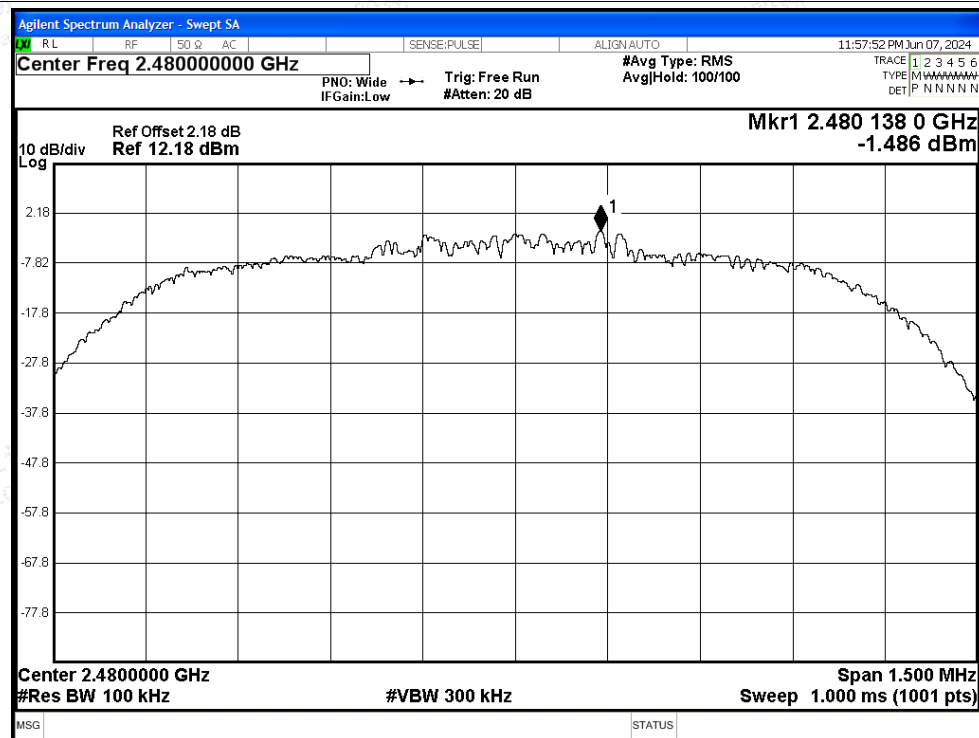


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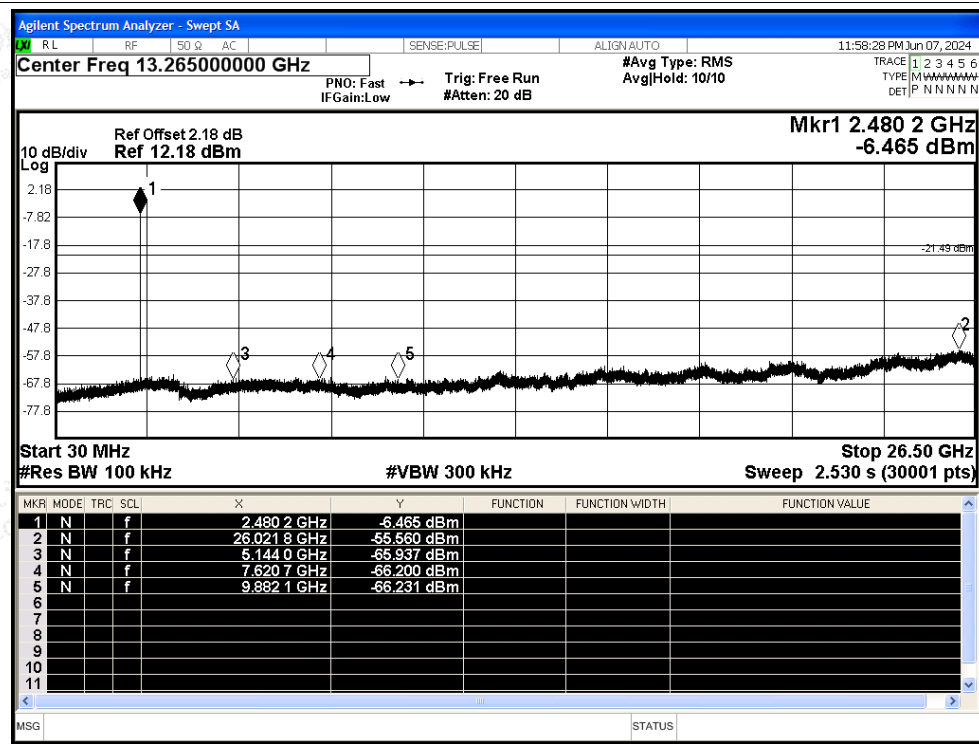




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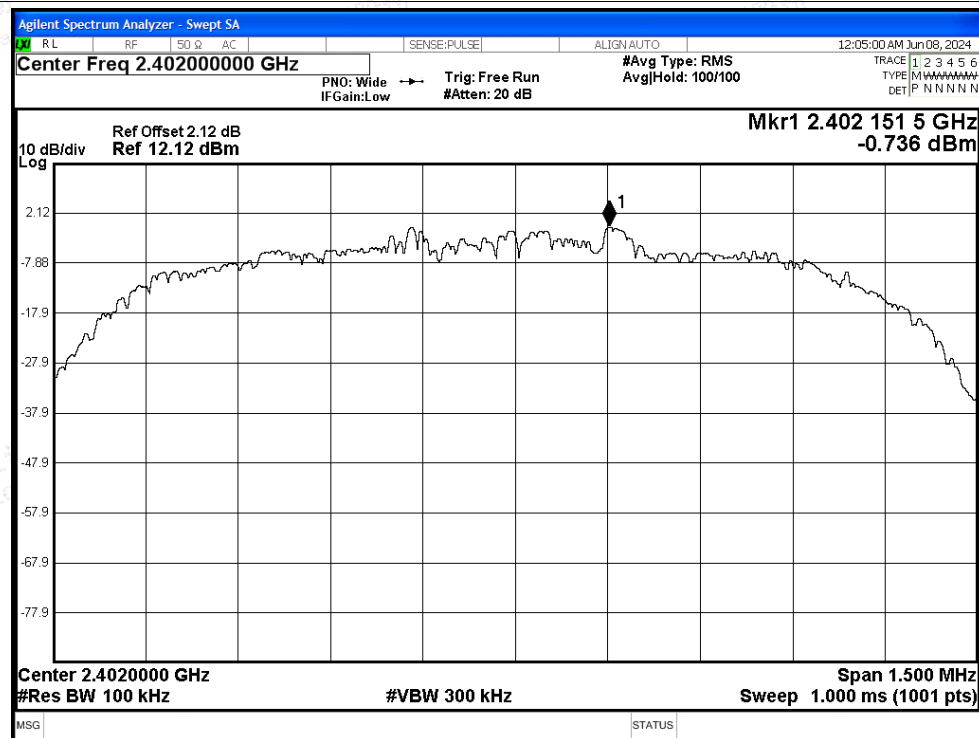


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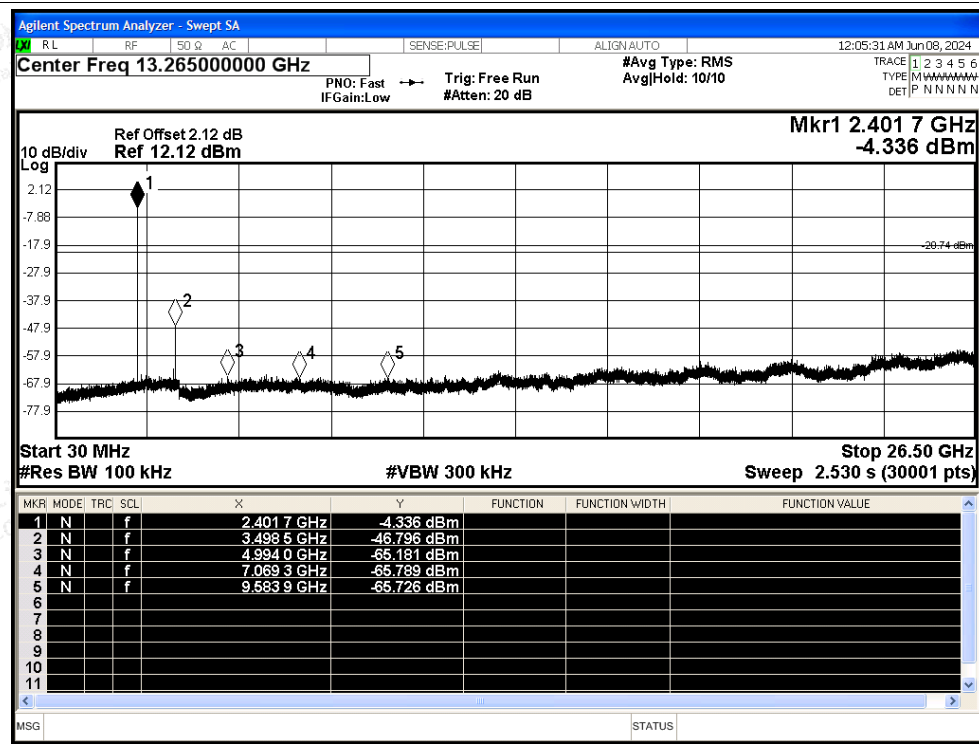




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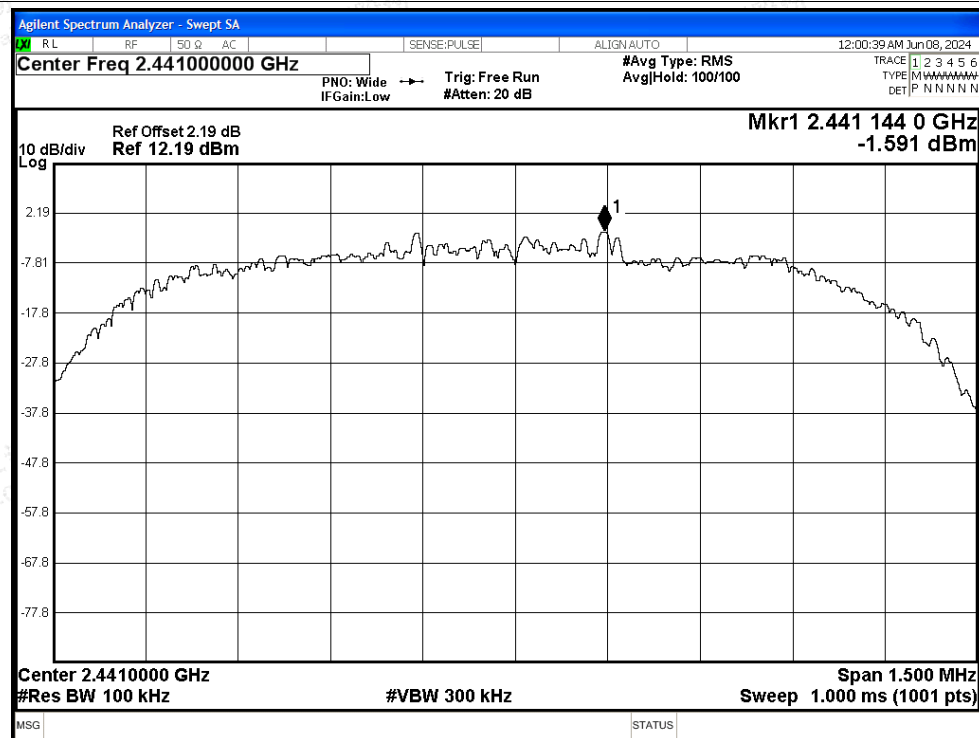


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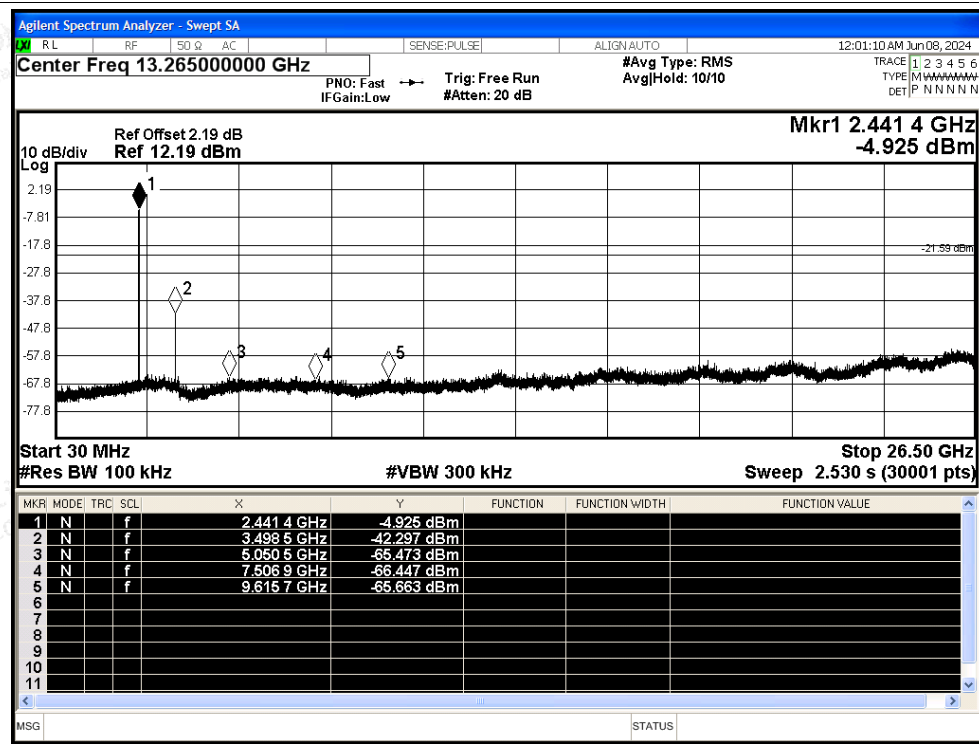




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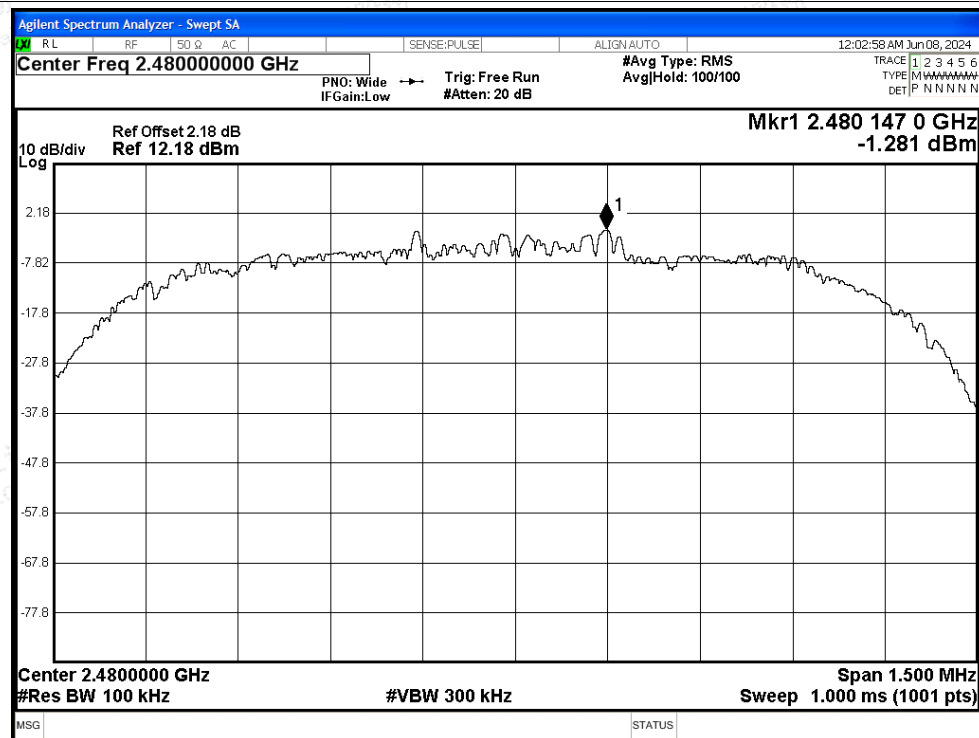


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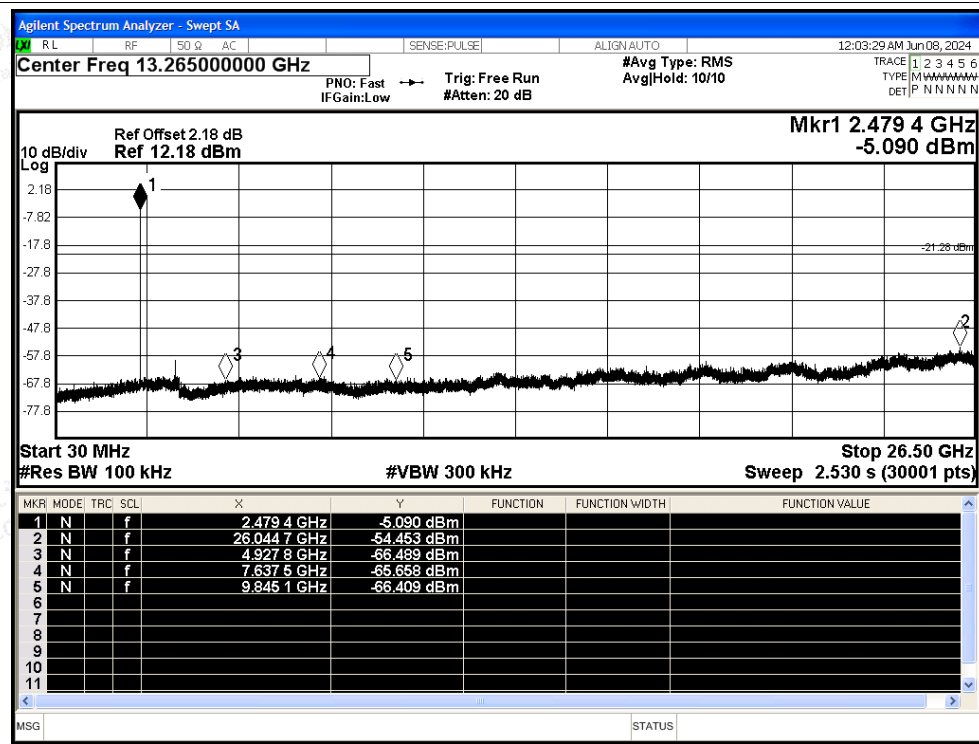




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

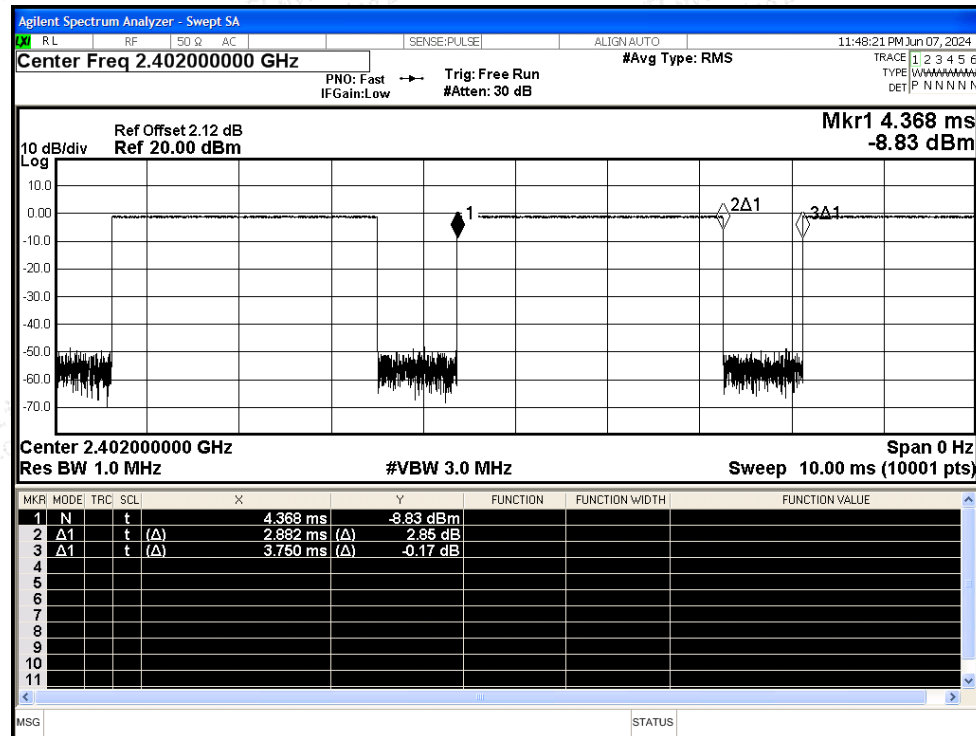
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.85	1.14	0.35
NVNT	1-DH5	2441	Ant1	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.88	1.14	0.35
NVNT	2-DH5	2402	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.96	1.14	0.35
NVNT	3-DH5	2402	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2441	Ant1	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant1	76.99	1.14	0.35



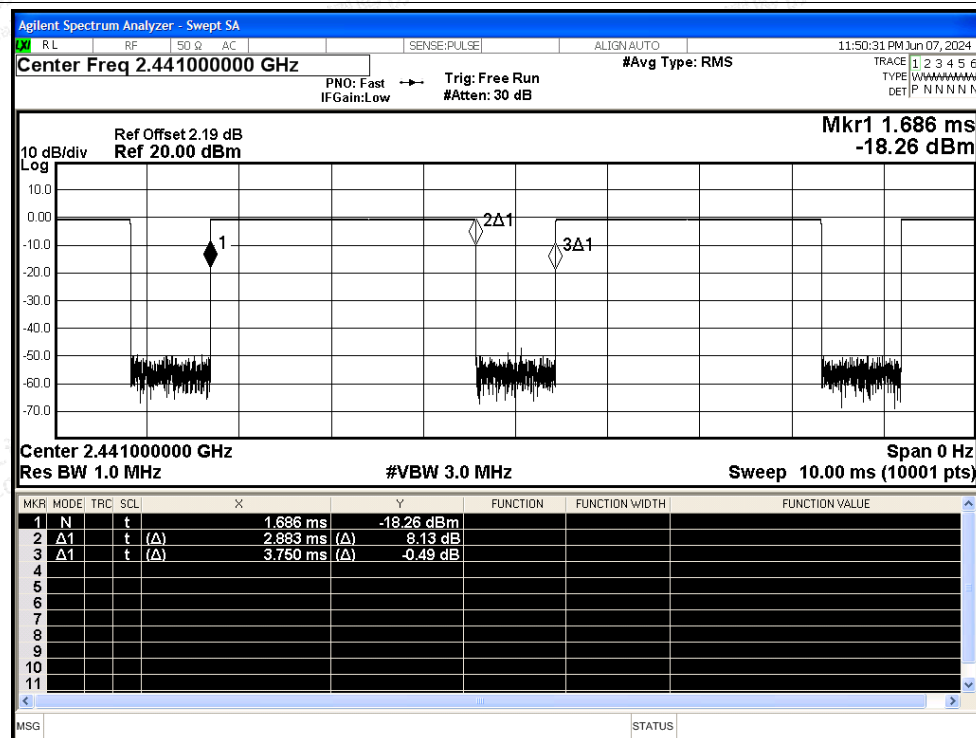


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1

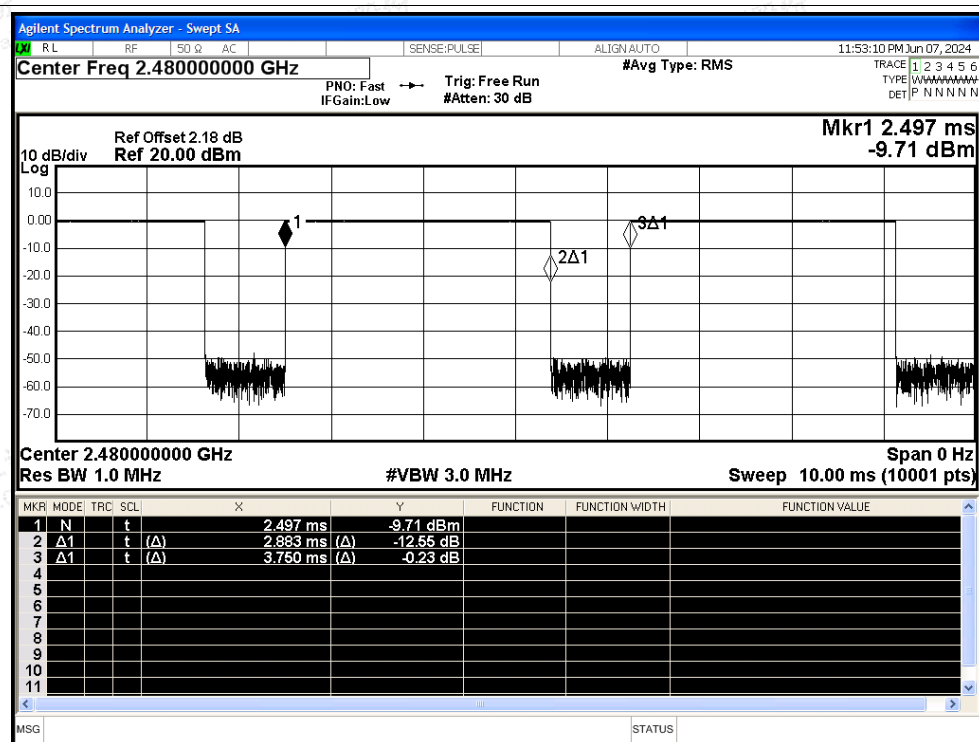


Duty Cycle NVNT 1-DH5 2441MHz Ant1

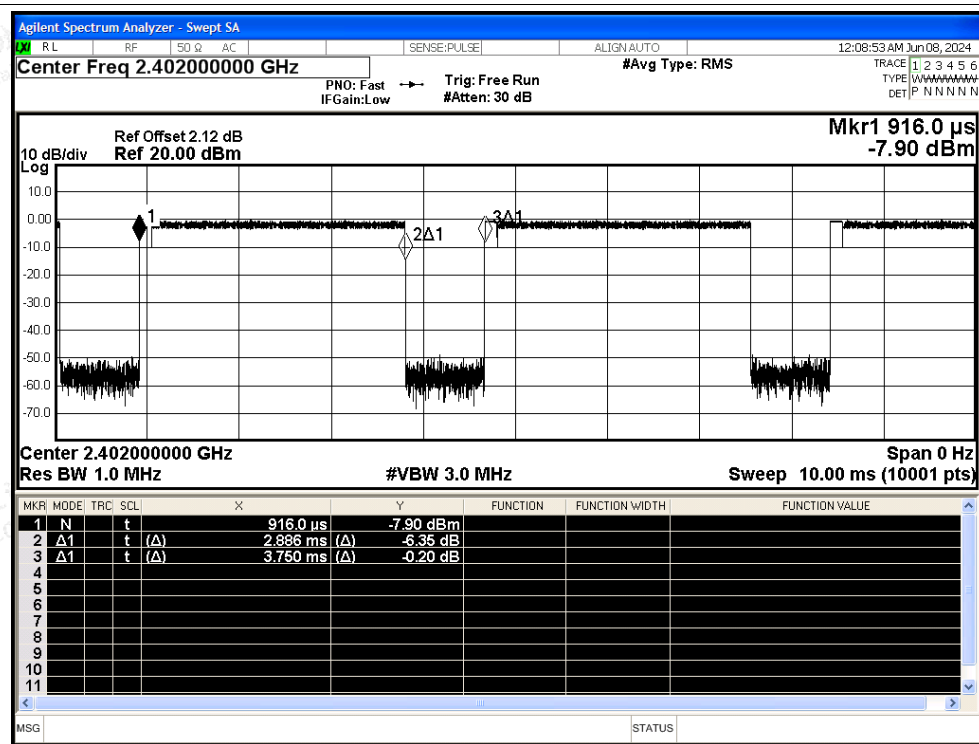




Duty Cycle NVNT 1-DH5 2480MHz Ant1

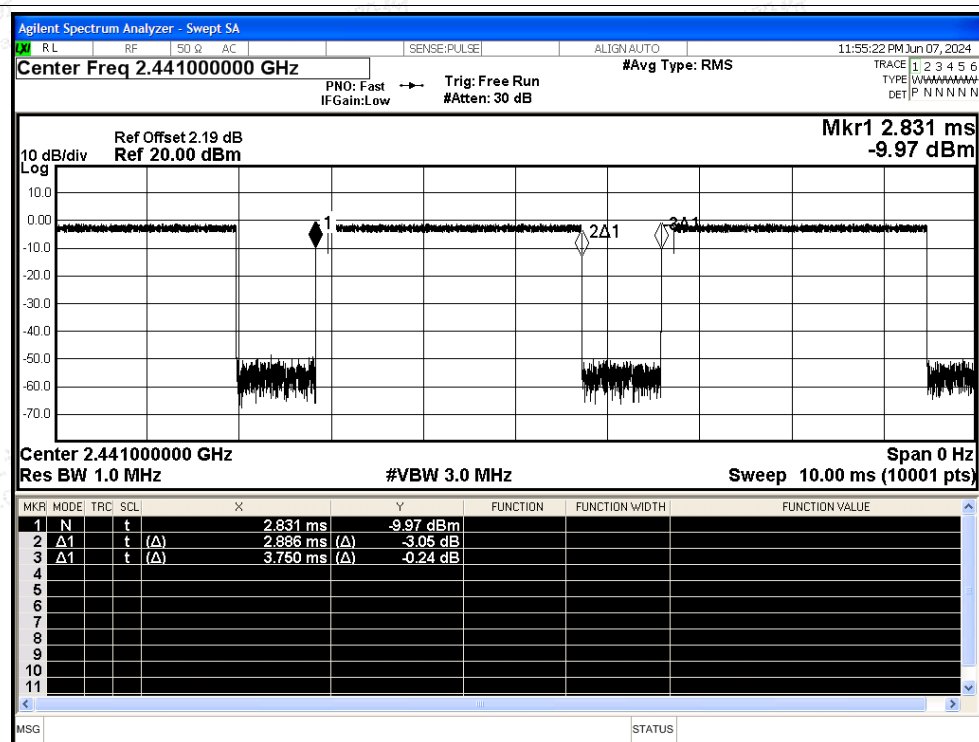


Duty Cycle NVNT 2-DH5 2402MHz Ant1

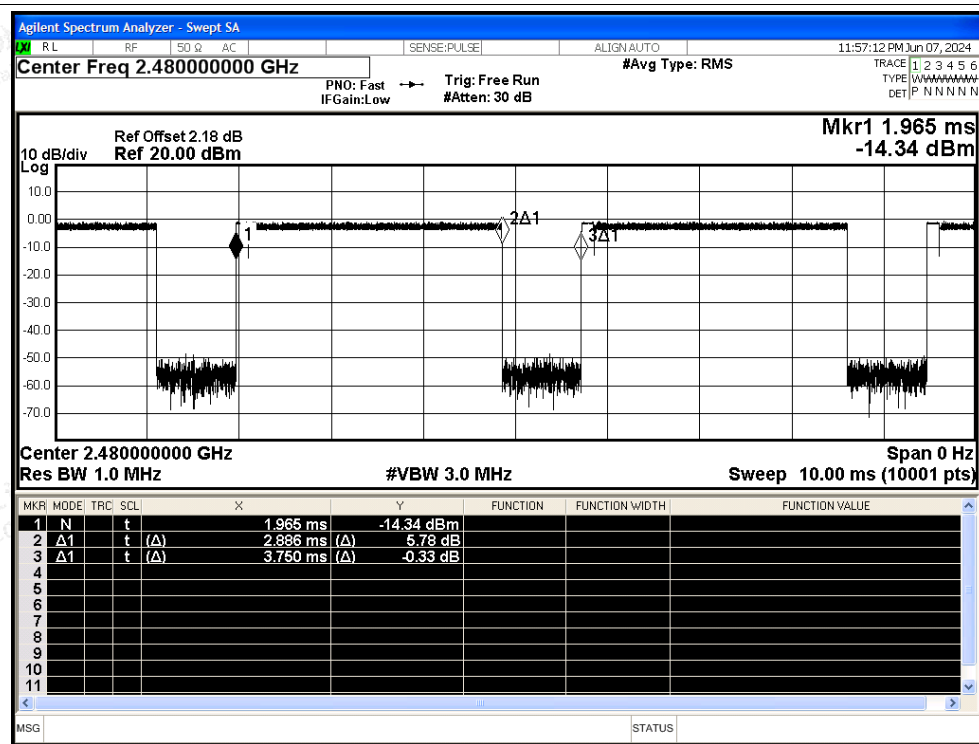




Duty Cycle NVNT 2-DH5 2441MHz Ant1

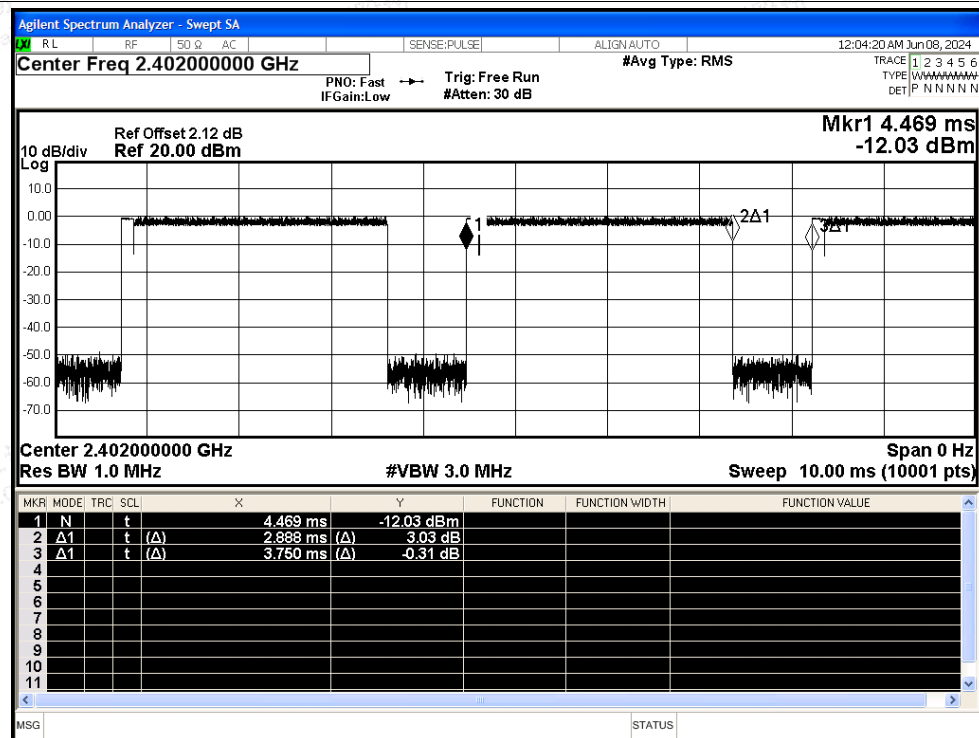


Duty Cycle NVNT 2-DH5 2480MHz Ant1

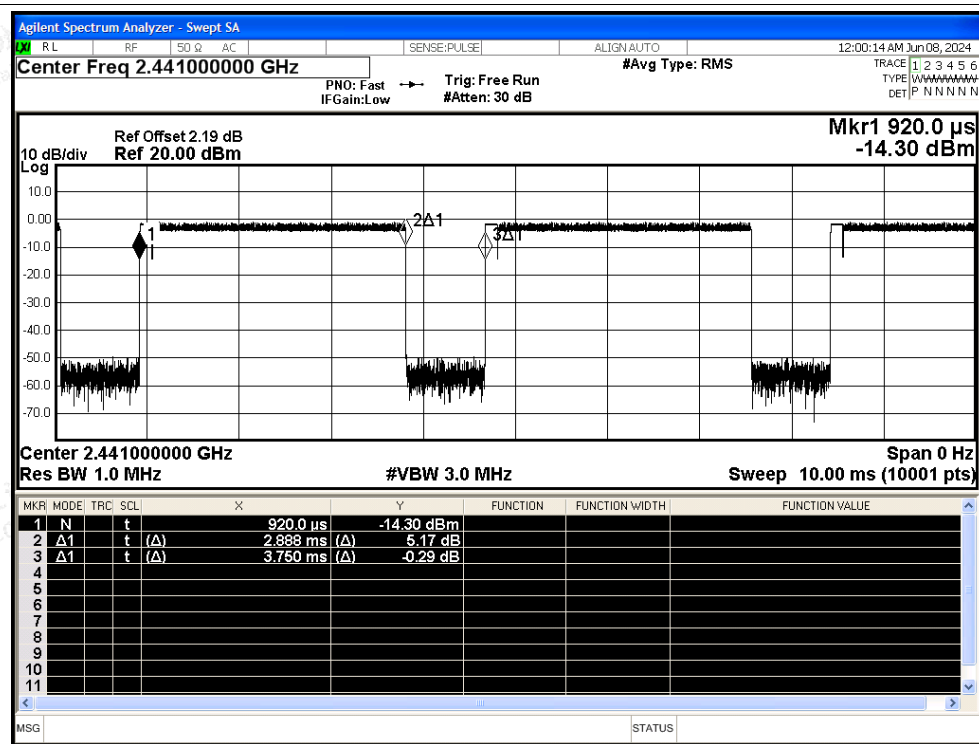


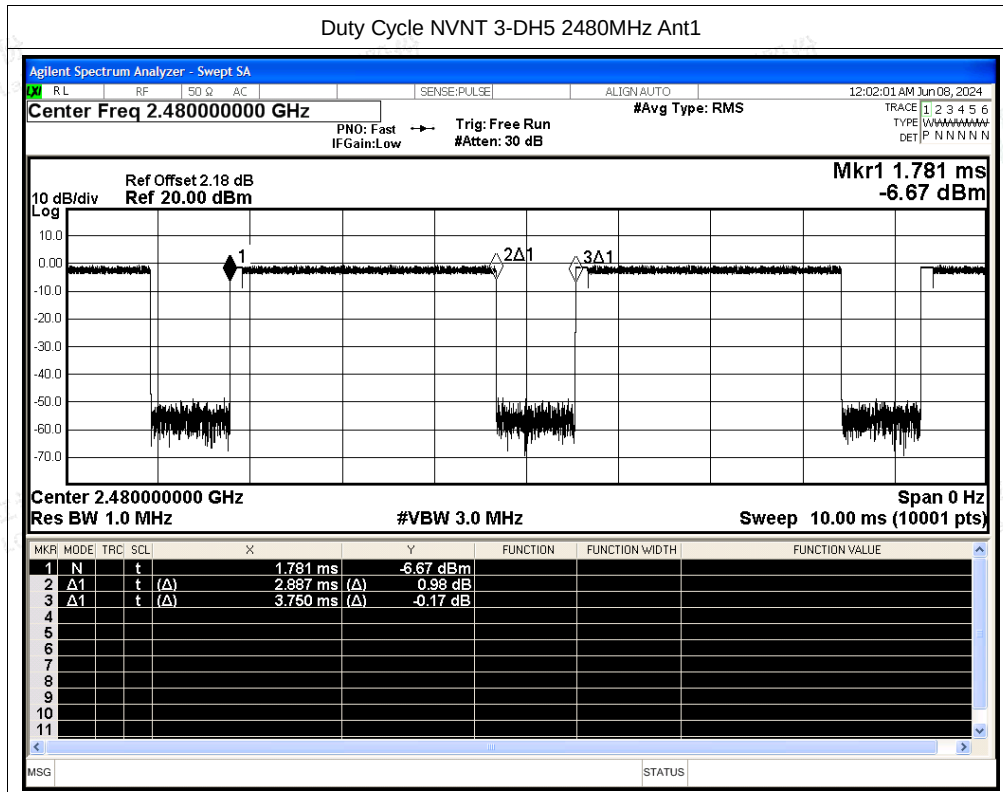


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1







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	-49.22	2	-	48.04	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.16	2	1.14	40.24	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2318.64	-47.46	2	-	49.77	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2386.992	-57.49	2	1.14	40.88	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.56	2	-	47.67	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.95	2	1.14	39.42	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.37	2	-	46.86	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.01	2	1.14	40.36	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.712	-39.11	2	-	58.15	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.4	-56.45	2	1.14	41.95	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.46	2	-	47.77	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-57.89	2	1.14	40.48	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.82	2	-	47.41	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.79	2	1.14	39.58	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2375.856	-47.61	2	-	49.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2383.536	-57.54	2	1.14	40.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-49.9	2	-	47.36	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.05	2	1.14	40.35	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.9	2	-	47.33	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.81	2	1.14	40.56	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.632	-39.08	2	-	58.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485.552	-56.95	2	1.14	41.42	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.21	2	-	48.02	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.56	2	1.14	40.81	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.58	2	-	46.68	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.05	2	1.13	40.34	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2313.552	-47.38	2	-	49.85	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2354.352	-57.34	2	1.13	41.02	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.49	2	-	46.74	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.38	2	1.13	39.98	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.13	2	-	47.1	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.29	2	1.14	40.08	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.184	-41.18	2	-	56.08	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2493.064	-57.04	2	1.14	41.36	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.44	2	-	46.79	Peak	74	Pass



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Scan code to check authenticity



NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.61	2	1.14	40.76	Average	54	Pass
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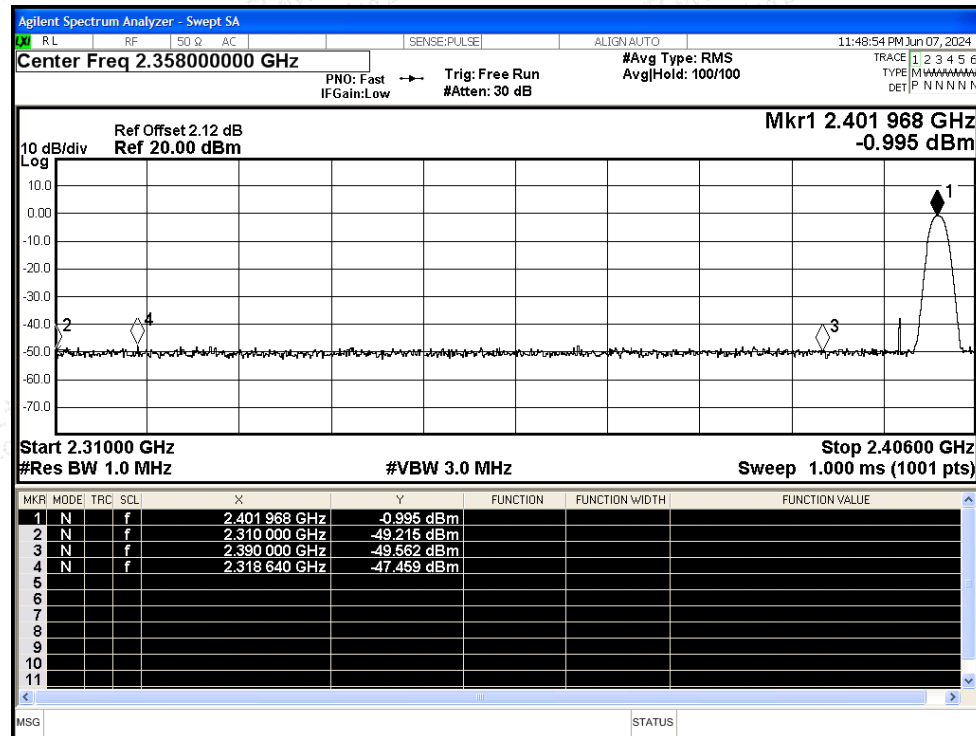


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Scan code to check authenticity

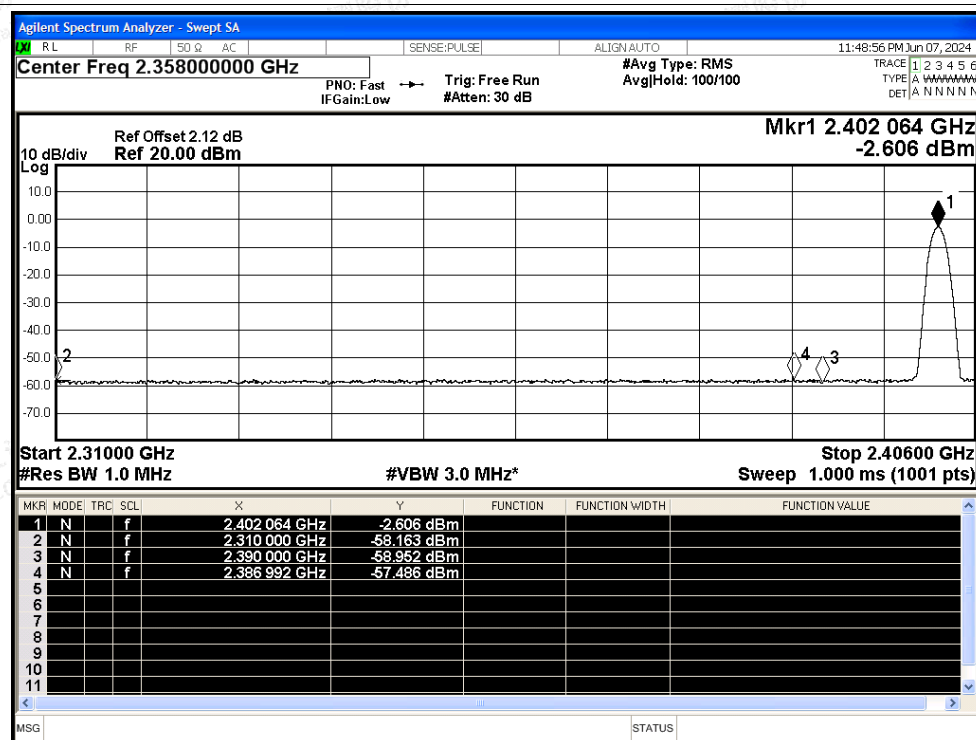


Test Graphs

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

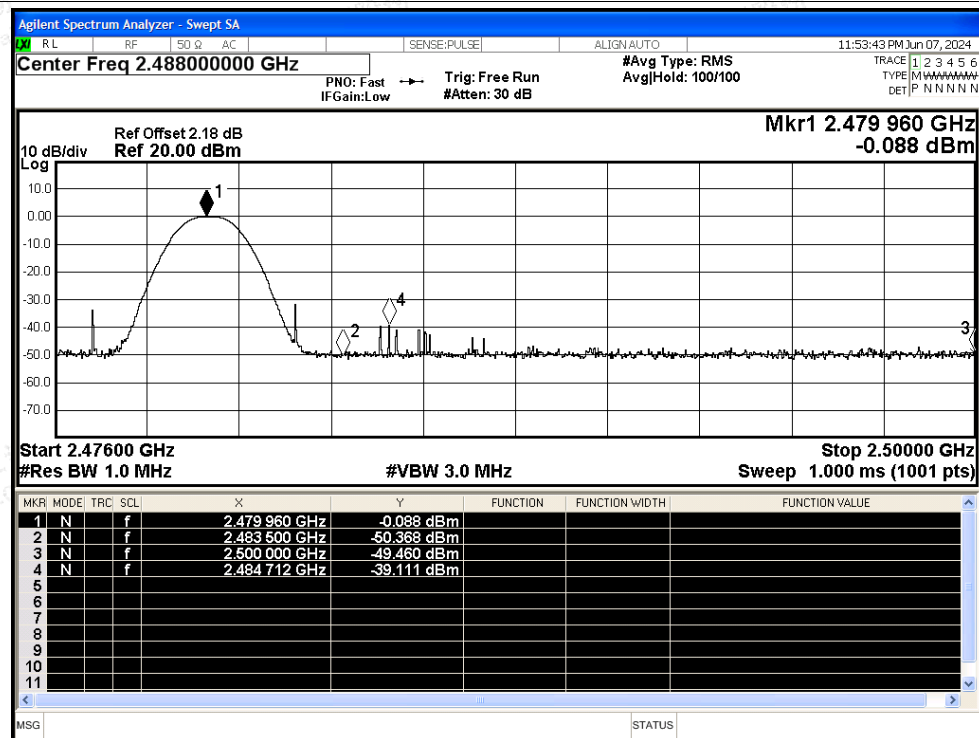


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

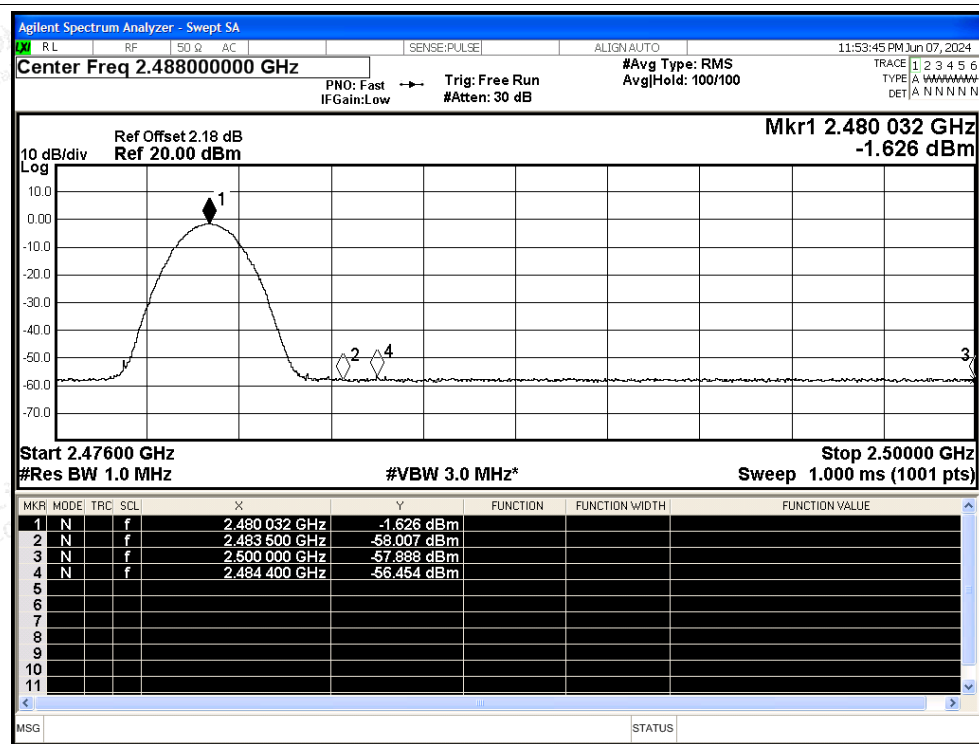




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

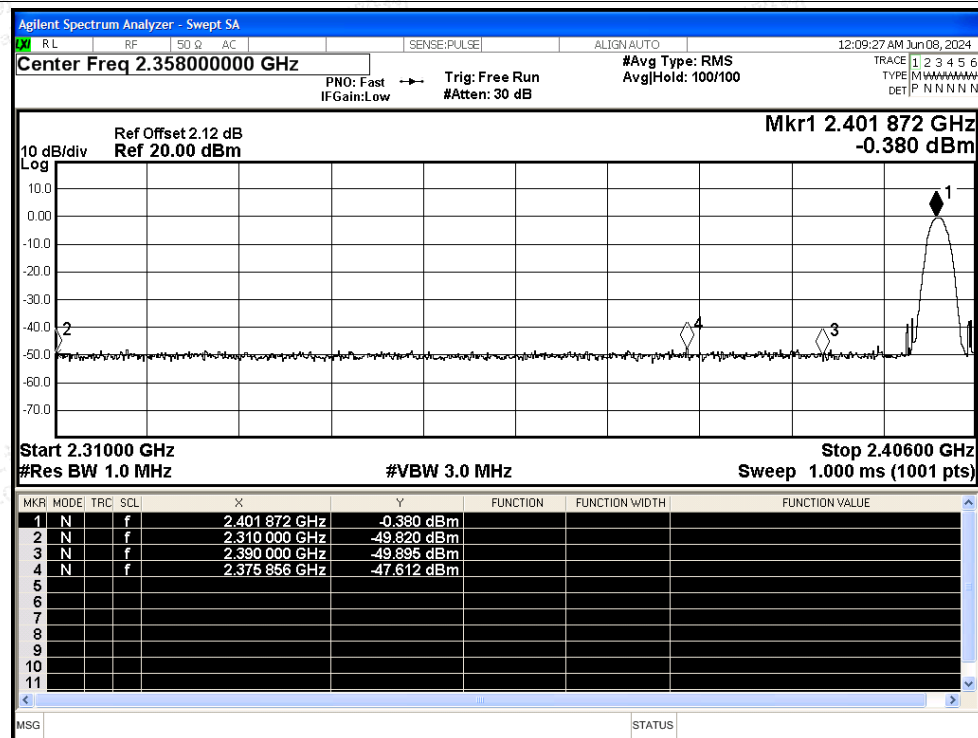


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

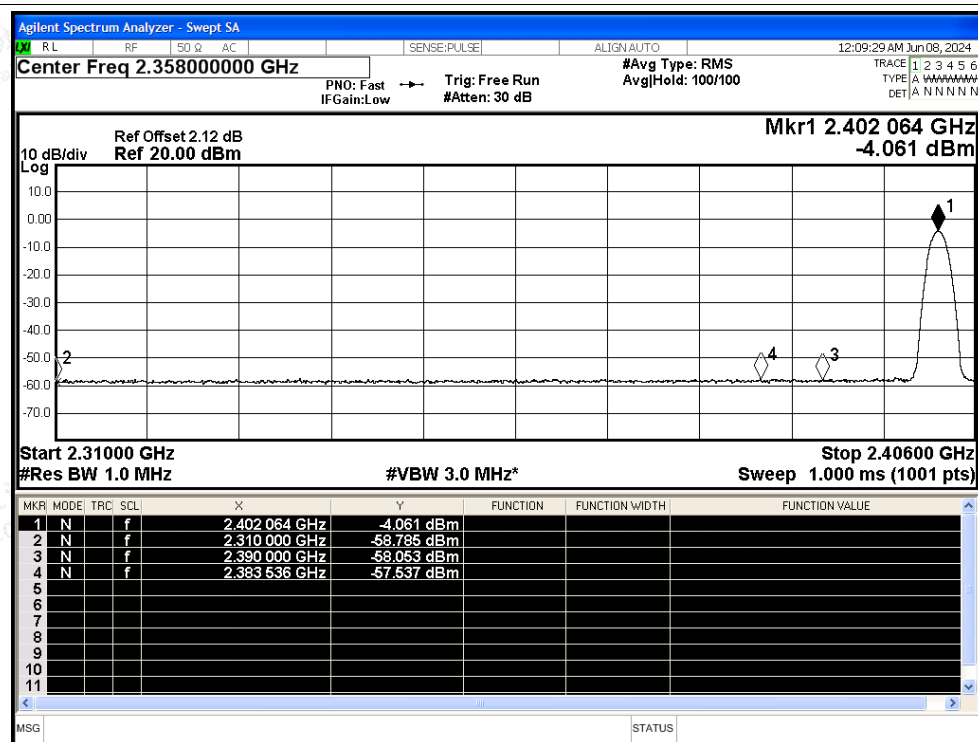




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

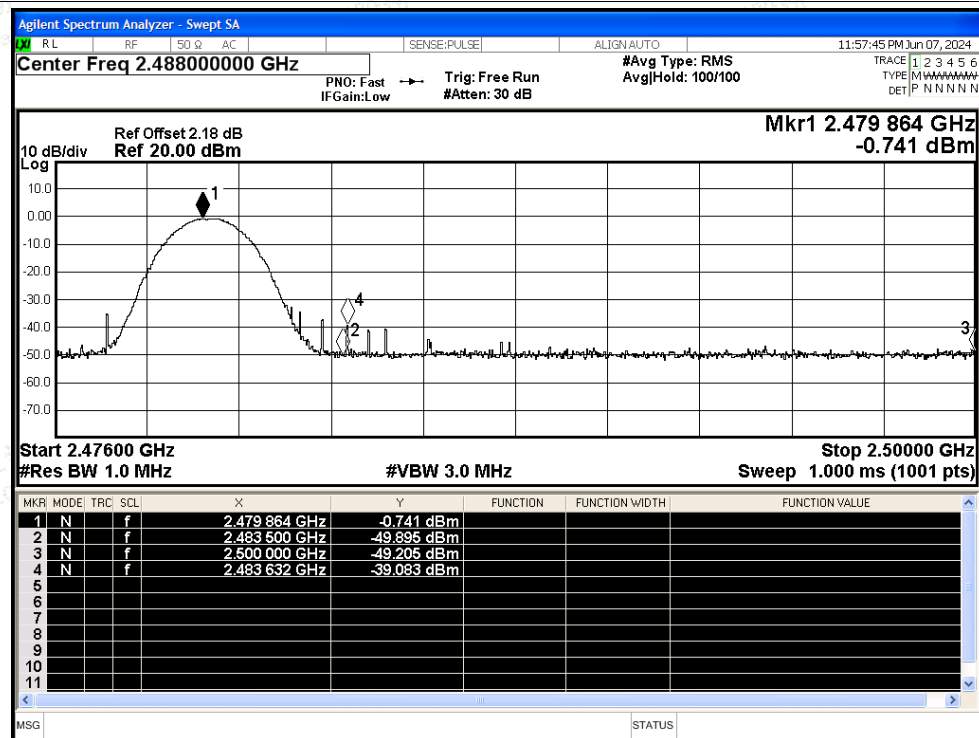


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

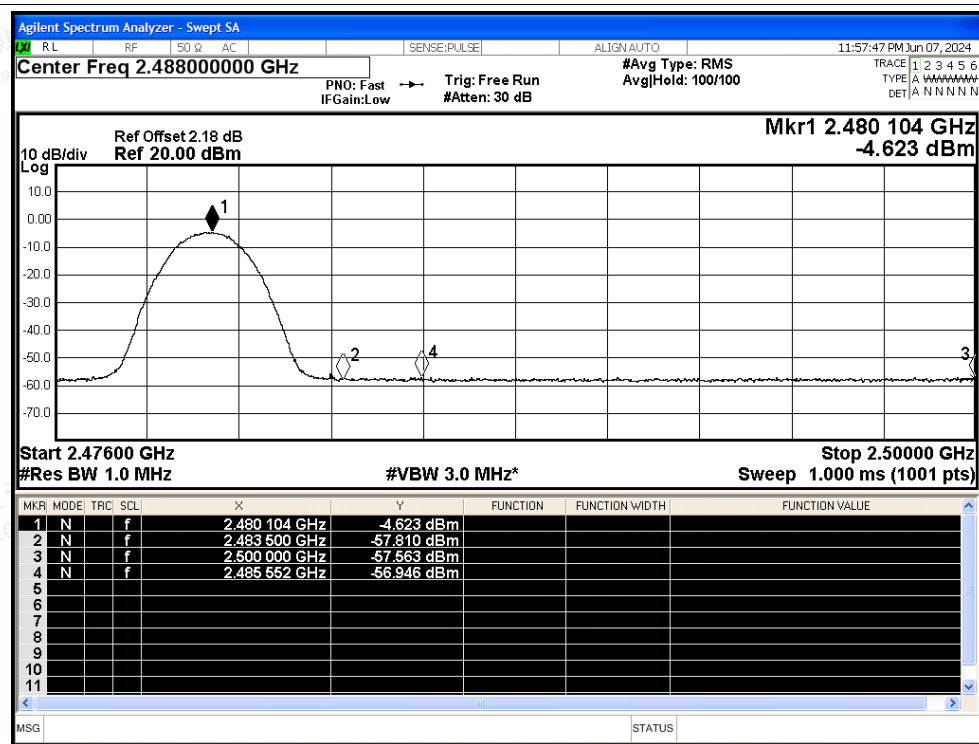




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

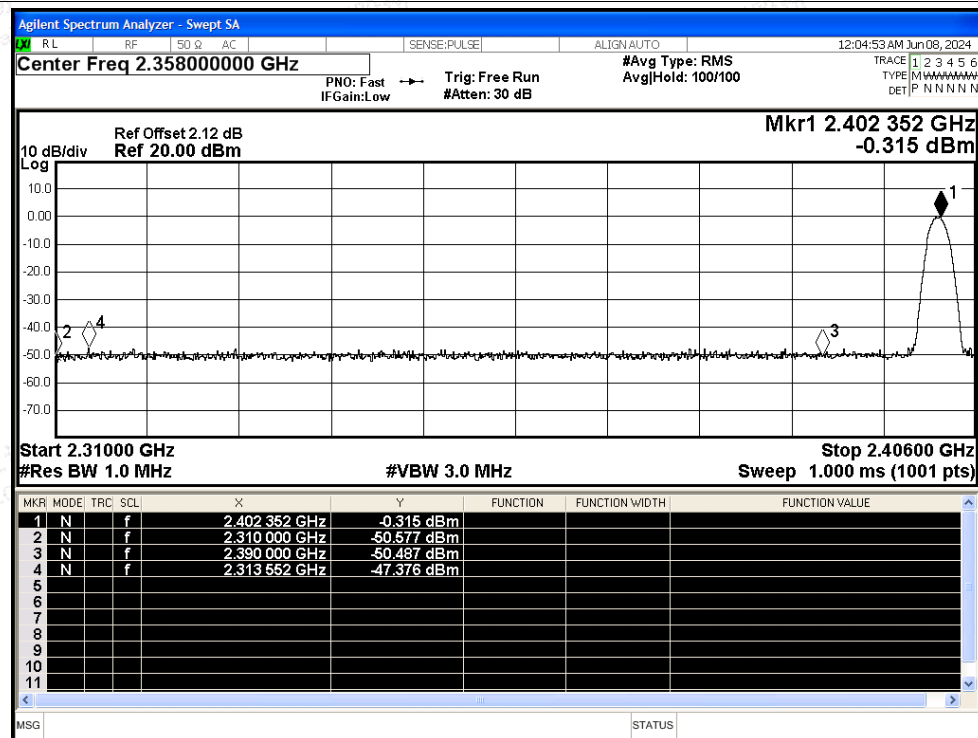


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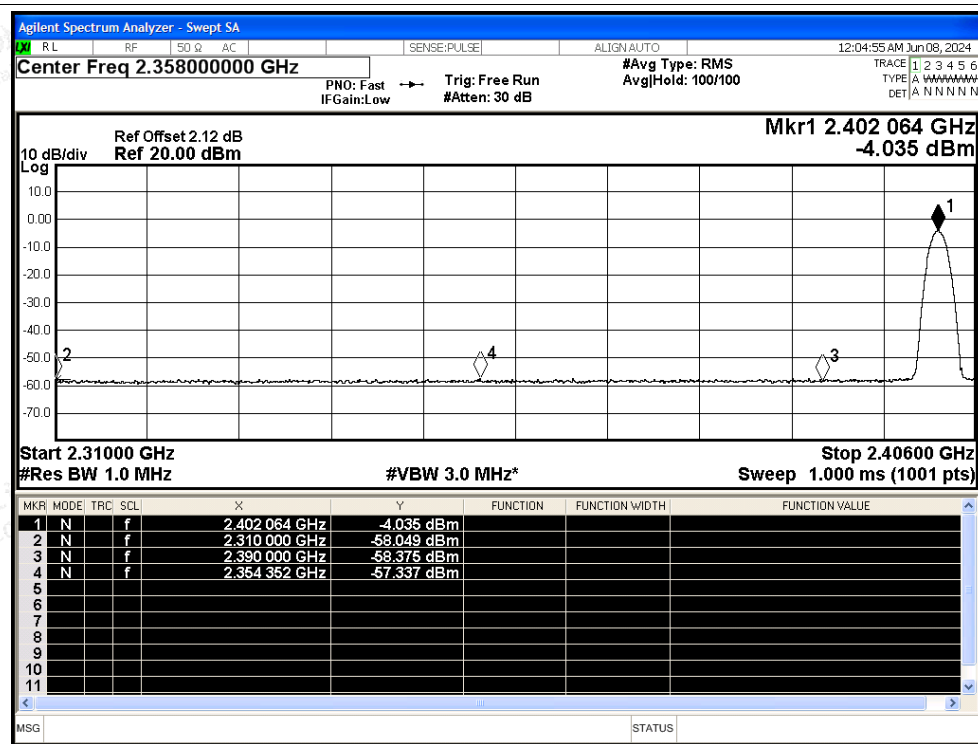




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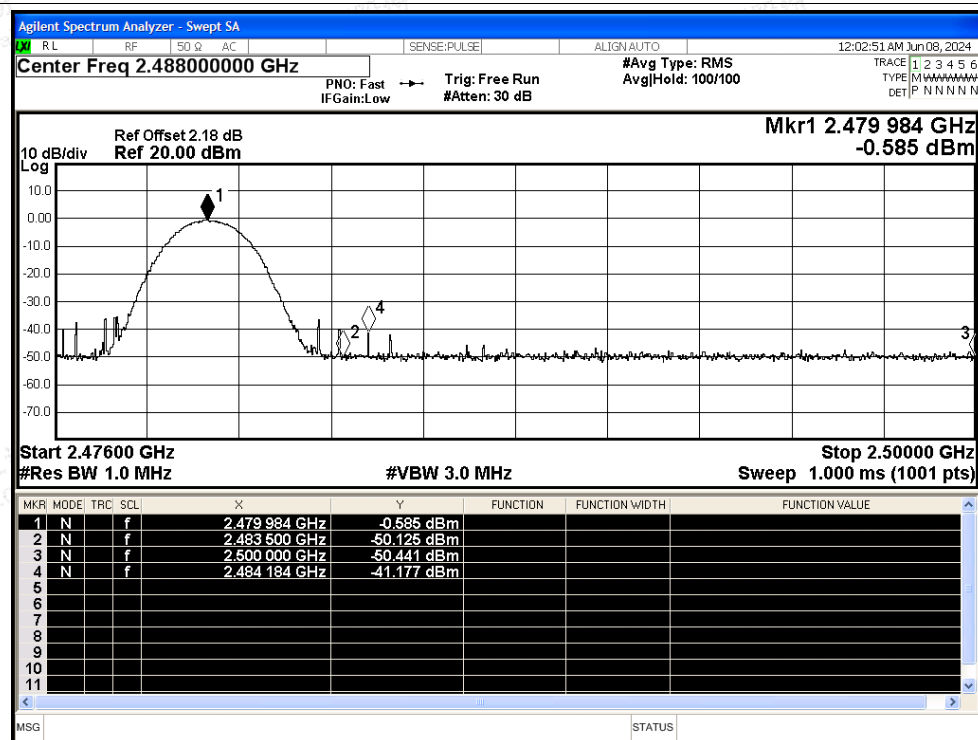


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

