



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mini Hi-Fi BT Stereo System

Test Model: PHSKR28

Environmental Conditions

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





A.1 -20dB Bandwidth

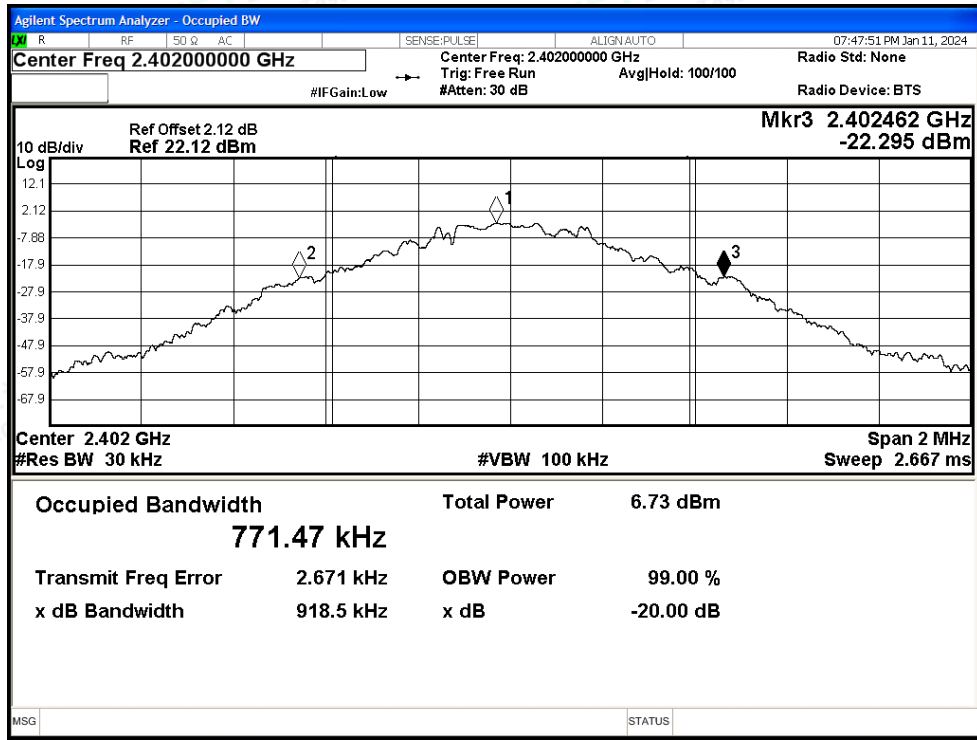
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant	0.919	N/A	Pass
NVNT	1-DH5	2441	Ant	0.814	N/A	Pass
NVNT	1-DH5	2480	Ant	0.84	N/A	Pass
NVNT	2-DH5	2402	Ant	1.277	N/A	Pass
NVNT	2-DH5	2441	Ant	1.264	N/A	Pass
NVNT	2-DH5	2480	Ant	1.275	N/A	Pass
NVNT	3-DH5	2402	Ant	1.311	N/A	Pass
NVNT	3-DH5	2441	Ant	1.273	N/A	Pass
NVNT	3-DH5	2480	Ant	1.27	N/A	Pass



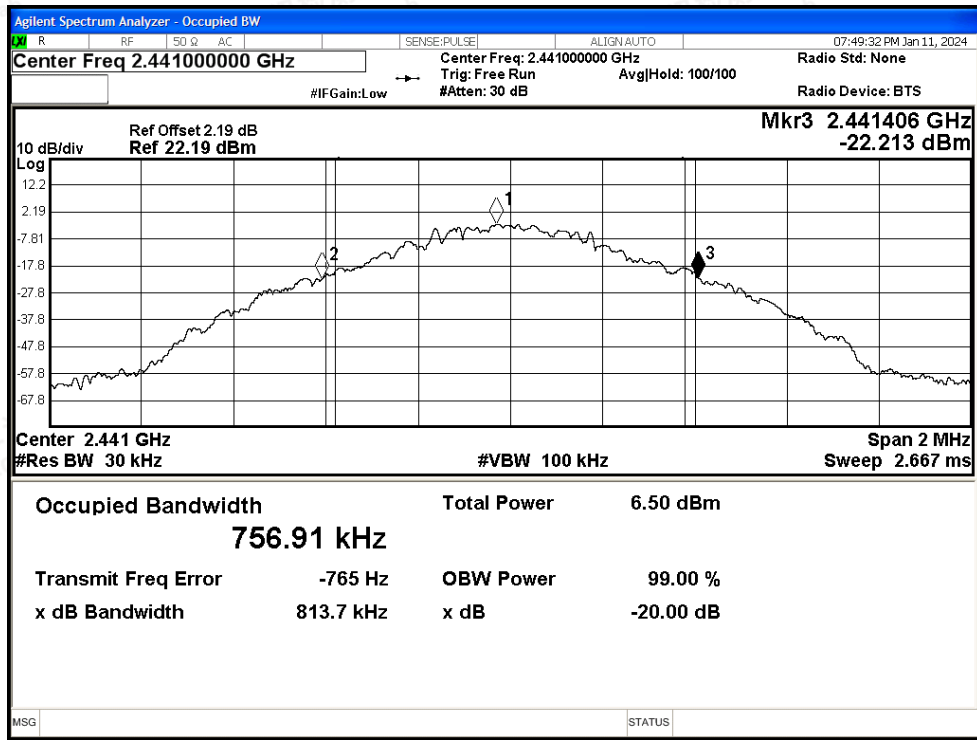


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant

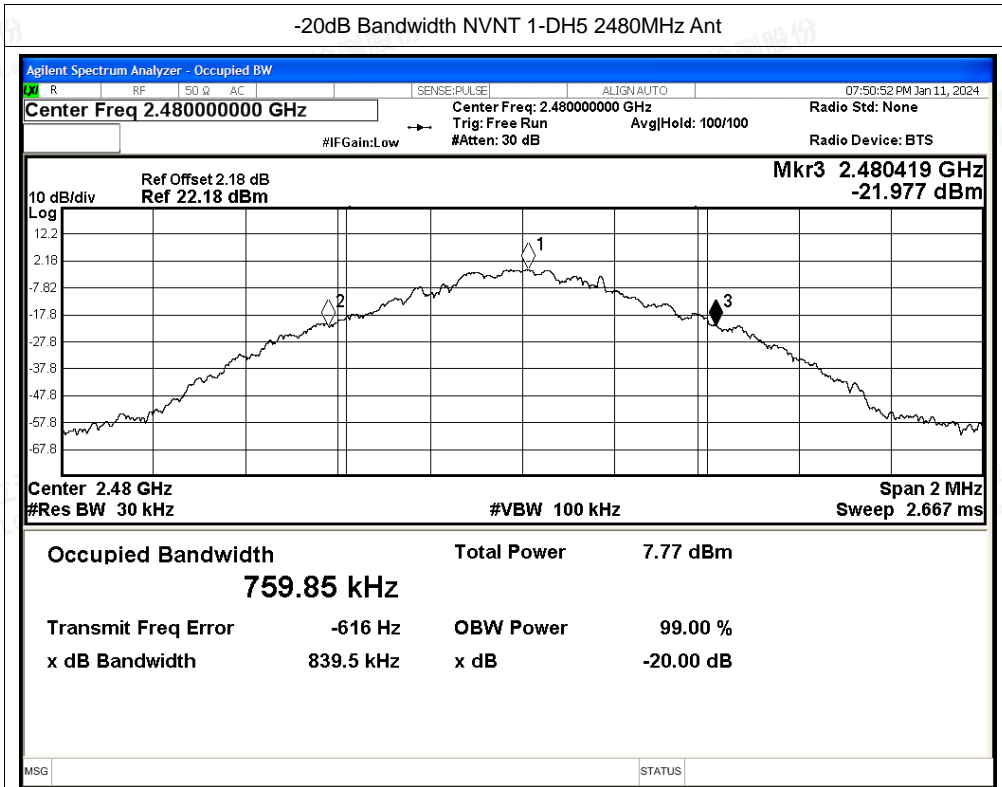


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant

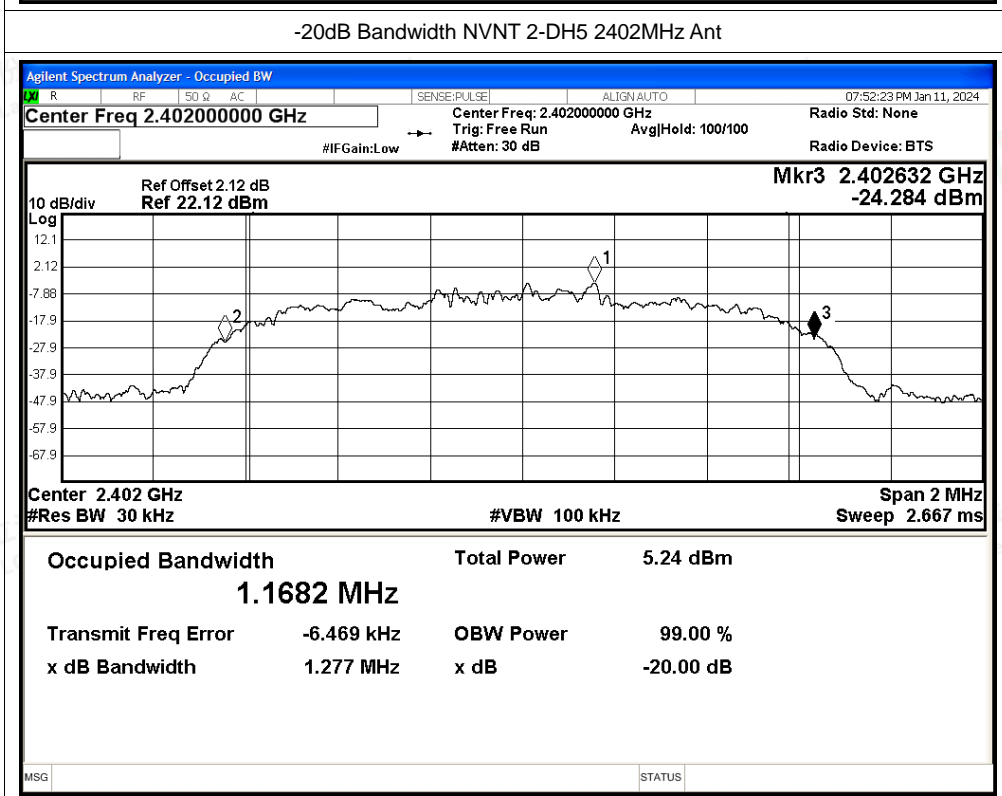




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant

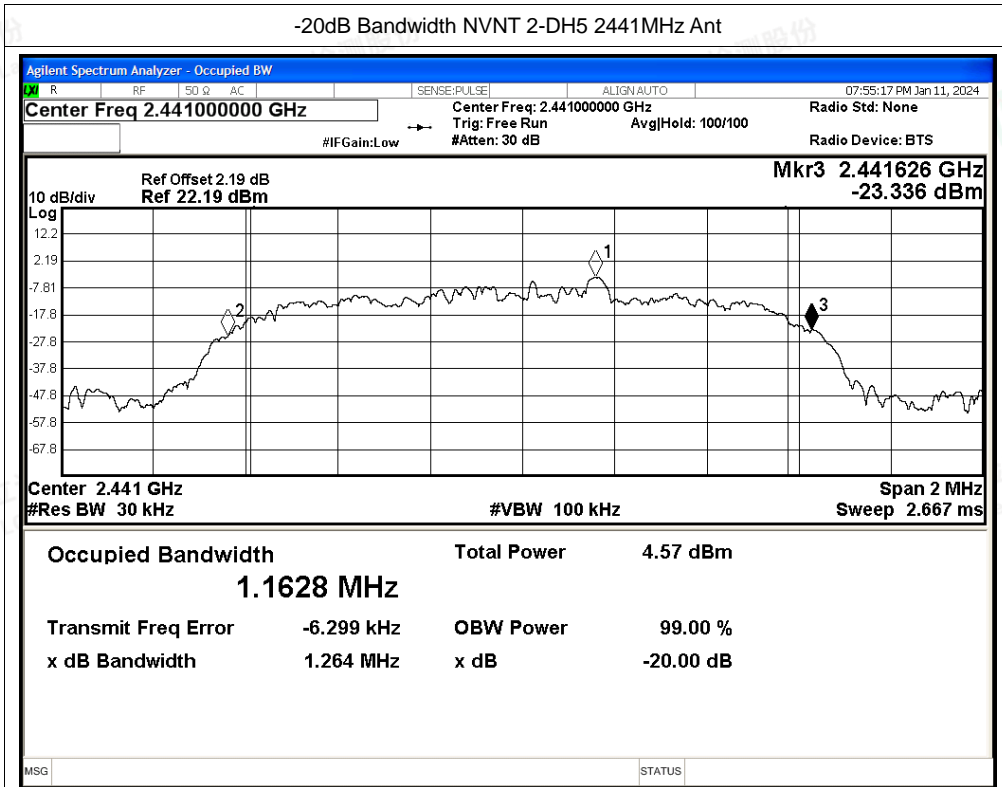


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant

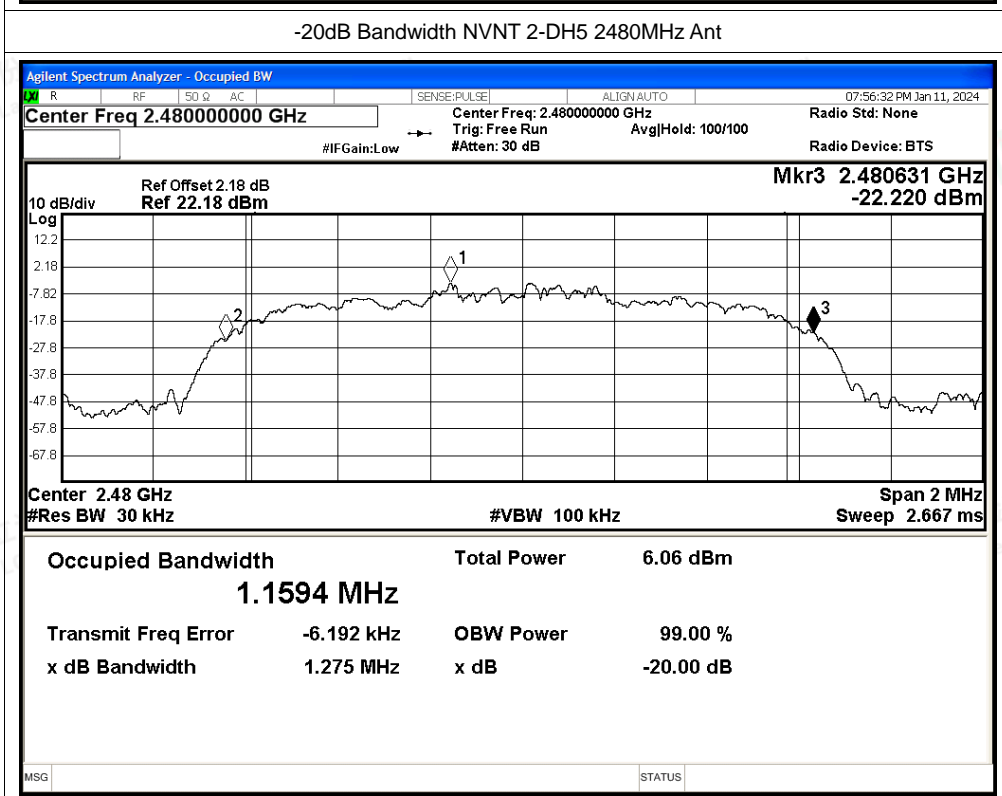




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant

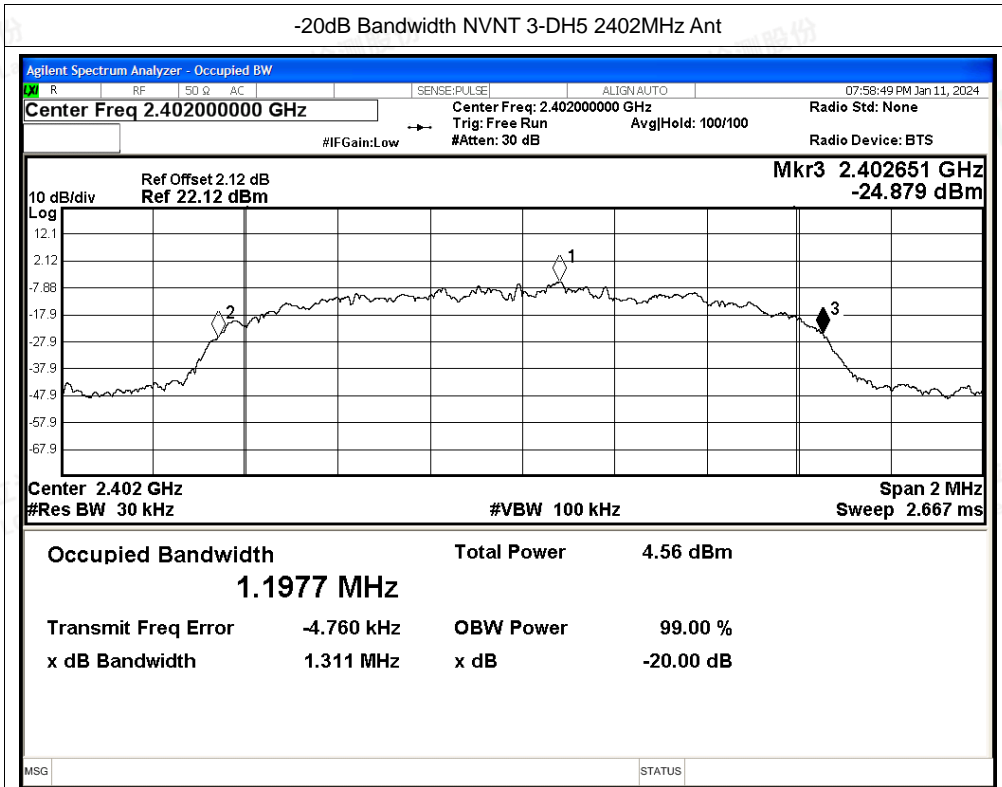


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant

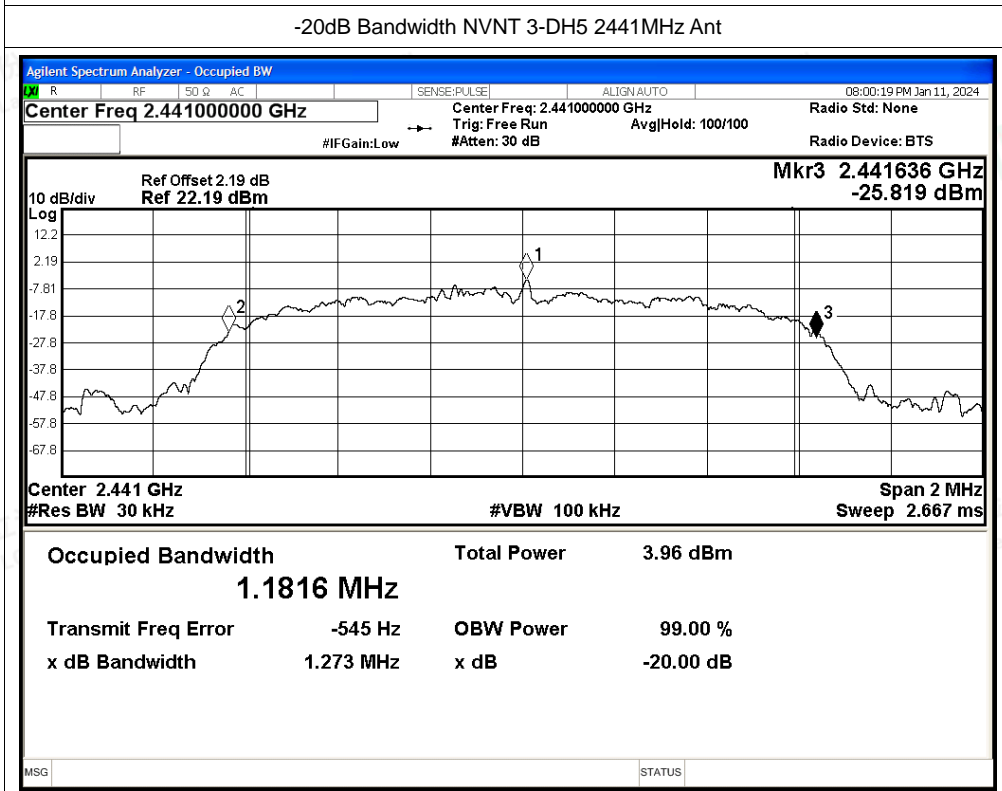


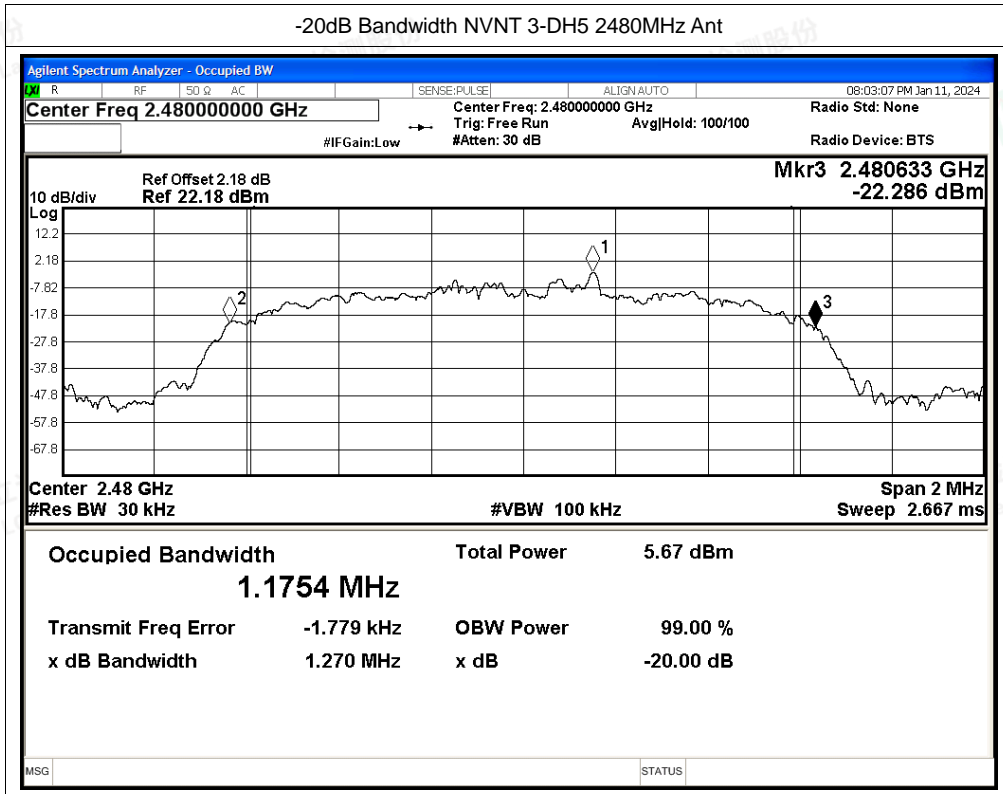


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant







A.2 Maximum Peak Conducted Output Power and

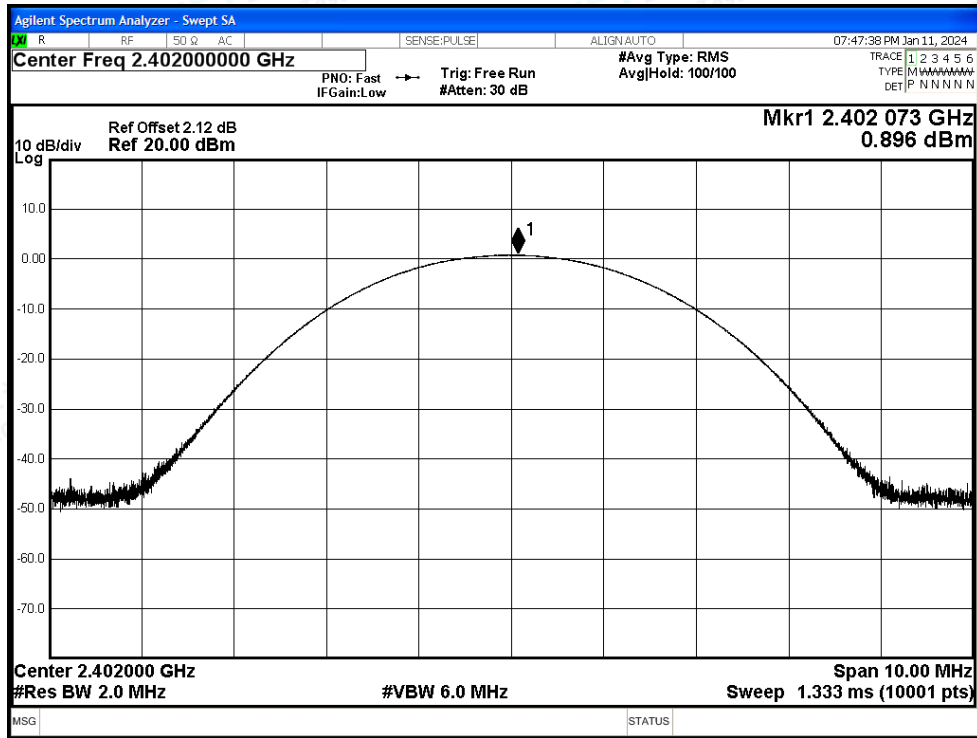
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant	0.9	21	Pass
NVNT	1-DH5	2441	Ant	0.53	21	Pass
NVNT	1-DH5	2480	Ant	1.79	21	Pass
NVNT	2-DH5	2402	Ant	0.32	21	Pass
NVNT	2-DH5	2441	Ant	-0.17	21	Pass
NVNT	2-DH5	2480	Ant	1.09	21	Pass
NVNT	3-DH5	2402	Ant	0.26	21	Pass
NVNT	3-DH5	2441	Ant	-0.25	21	Pass
NVNT	3-DH5	2480	Ant	1.07	21	Pass



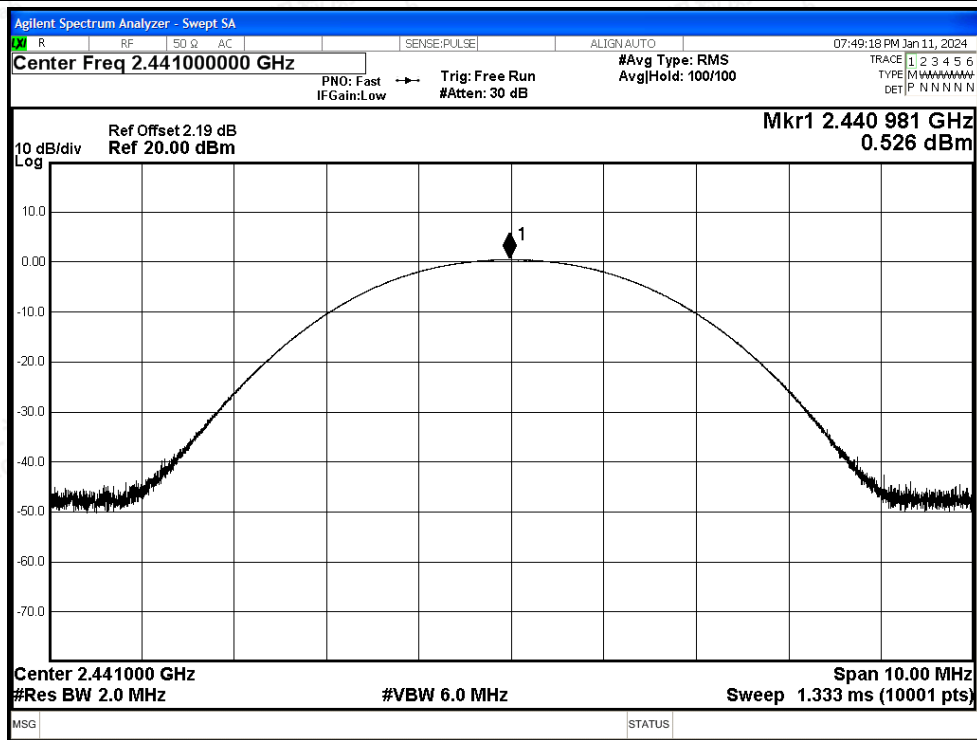


Test Graphs

Power NVNT 1-DH5 2402MHz Ant

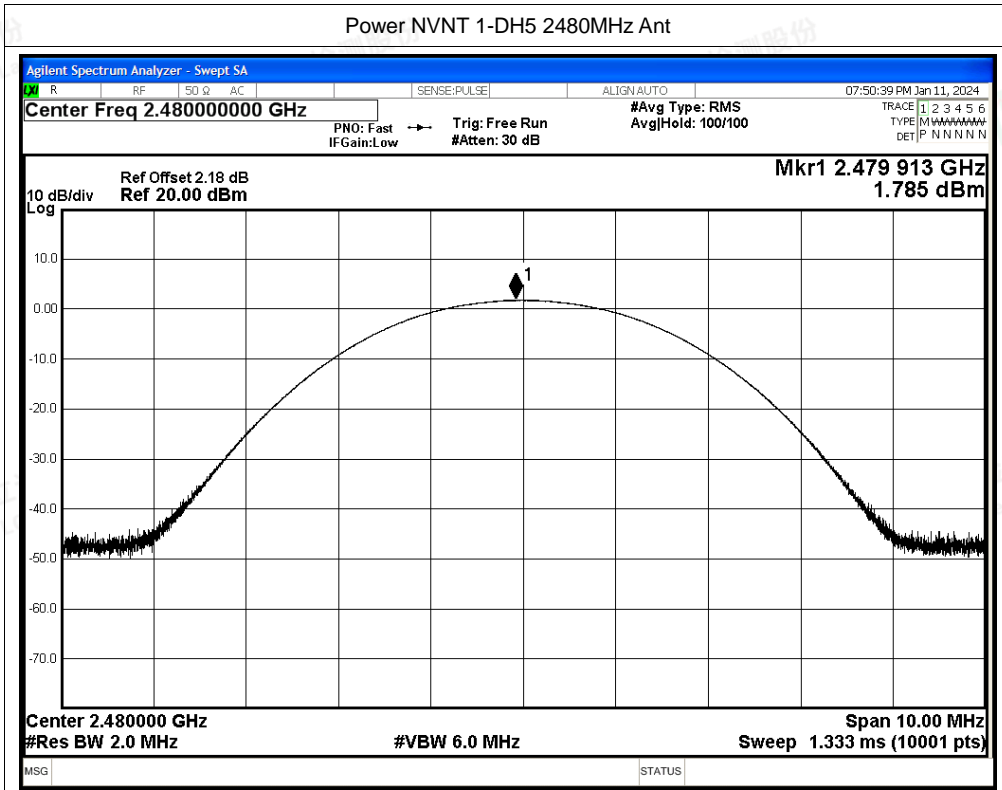


Power NVNT 1-DH5 2441MHz Ant

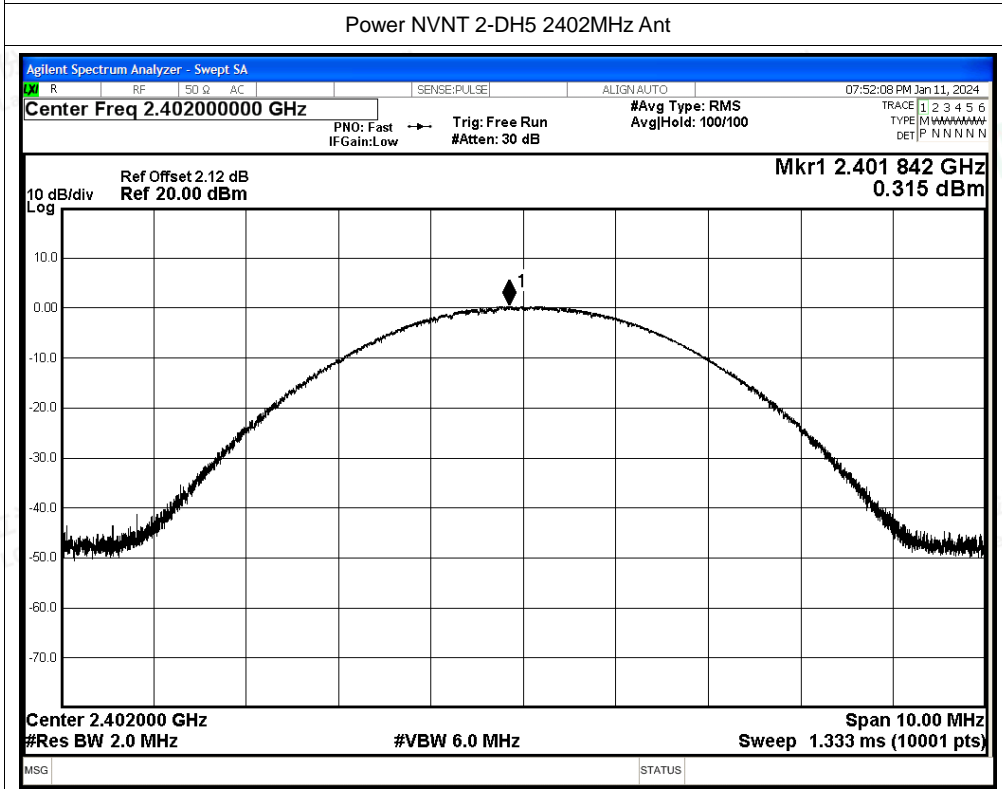




Power NVNT 1-DH5 2480MHz Ant

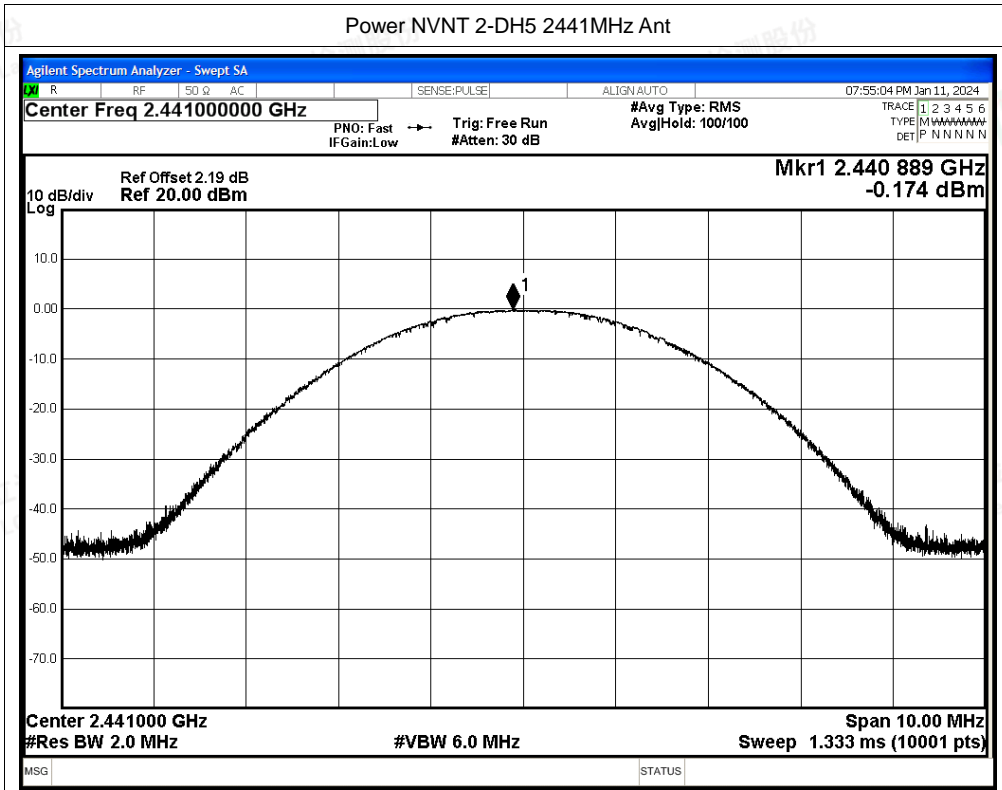


Power NVNT 2-DH5 2402MHz Ant

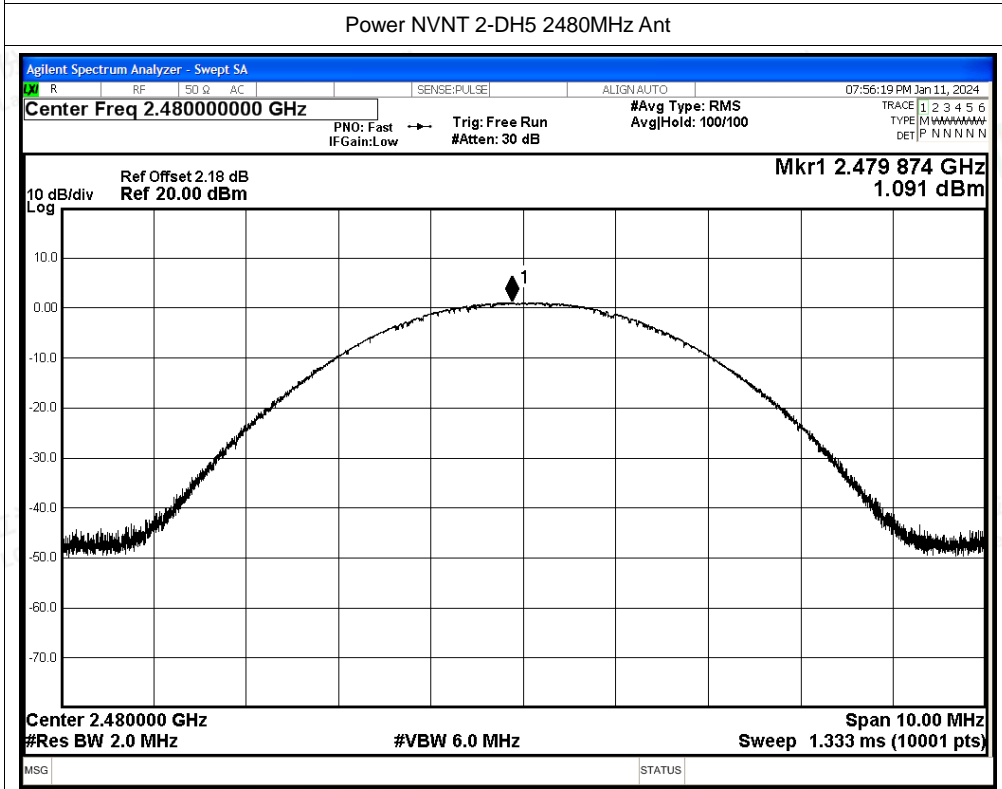




Power NVNT 2-DH5 2441MHz Ant

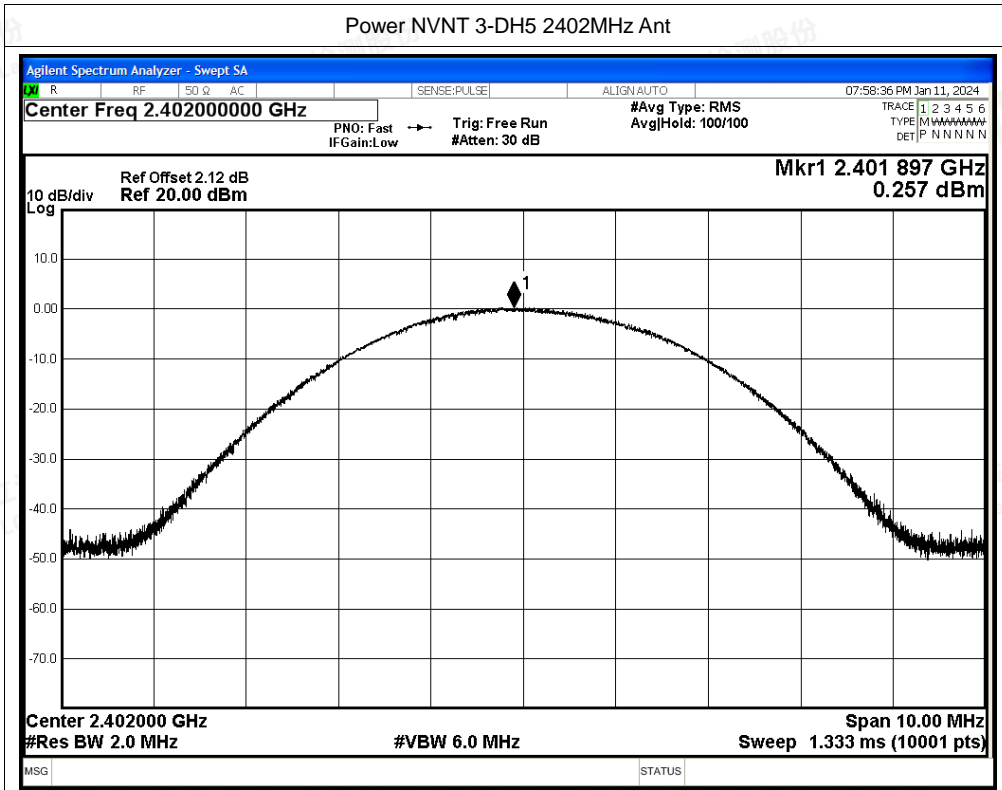


Power NVNT 2-DH5 2480MHz Ant

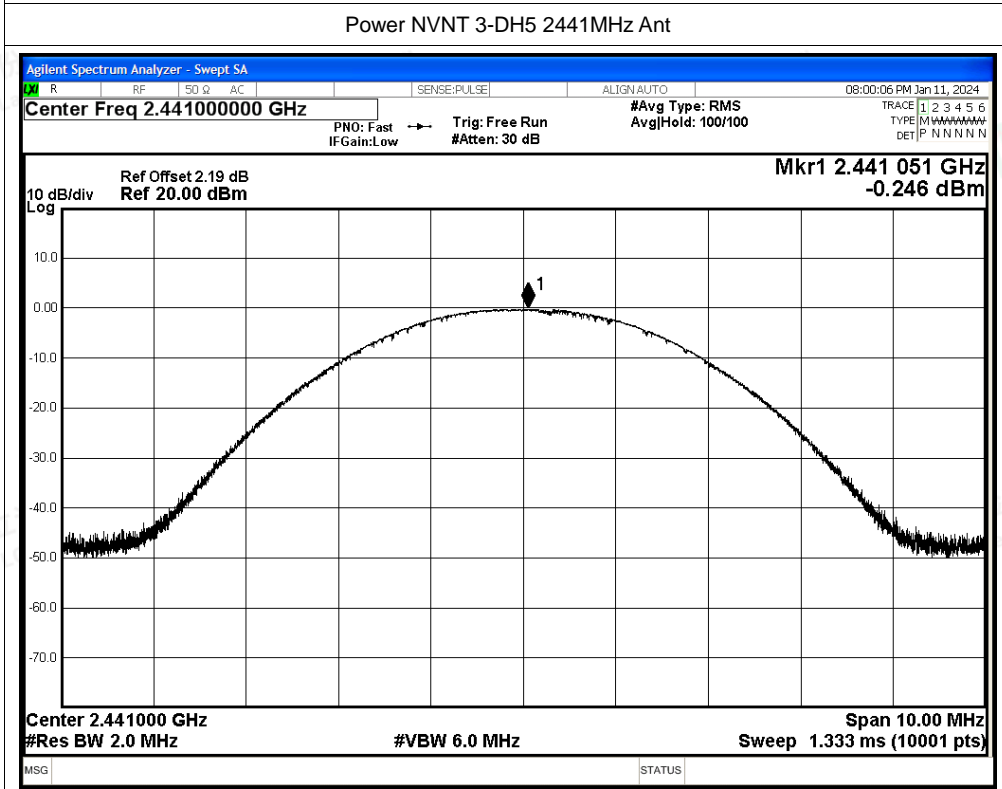


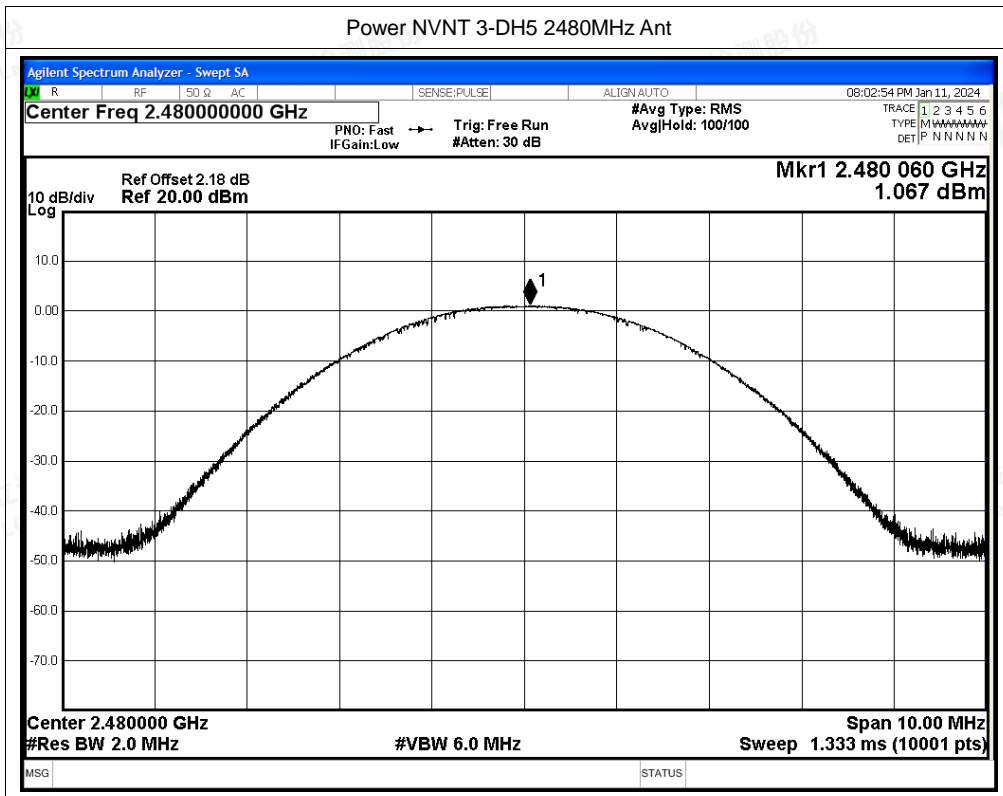


Power NVNT 3-DH5 2402MHz Ant



Power NVNT 3-DH5 2441MHz Ant







A.3 Carrier Frequencies Separation

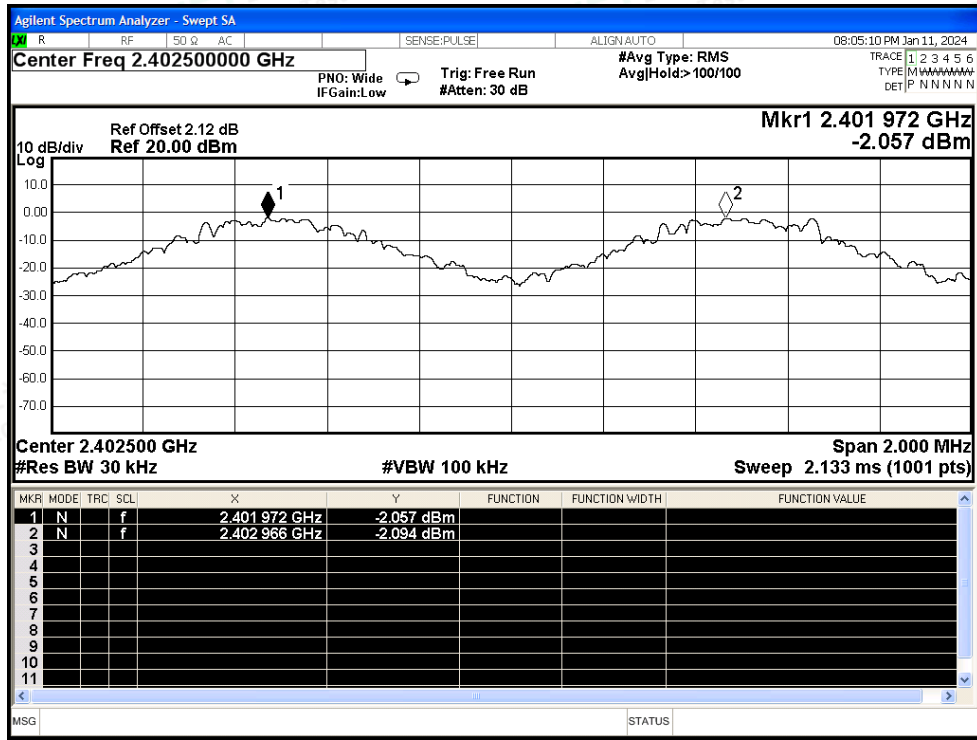
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant	2401.972	2402.966	0.994	0.613	Pass
NVNT	2-DH5	Ant	2402.006	2403.162	1.156	0.851	Pass
NVNT	3-DH5	Ant	2402.002	2403.172	1.17	0.874	Pass



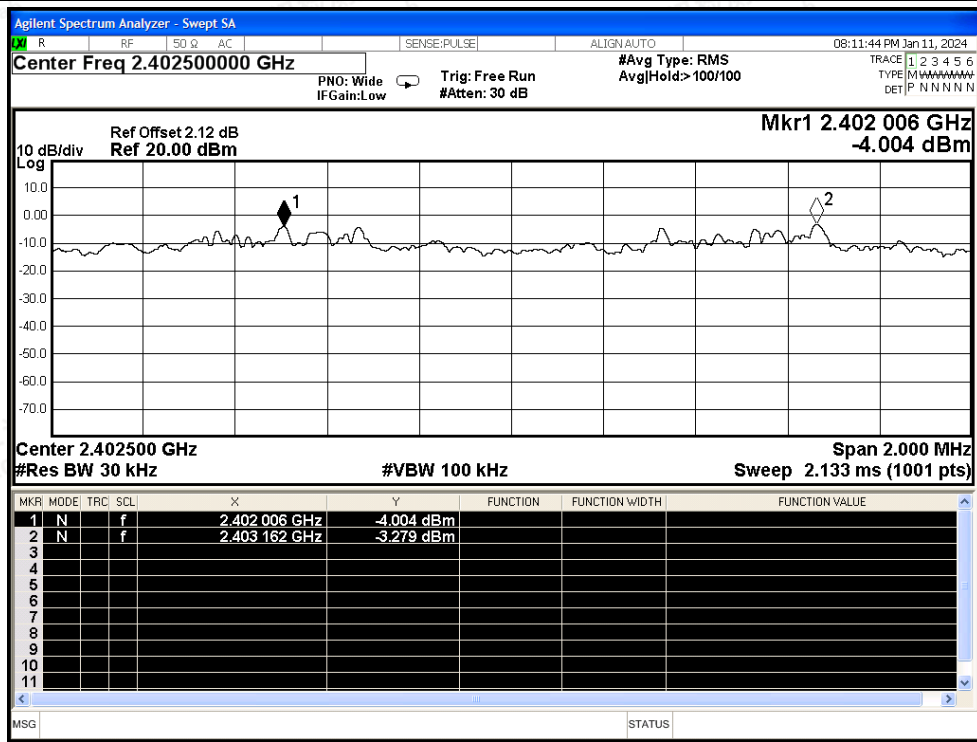


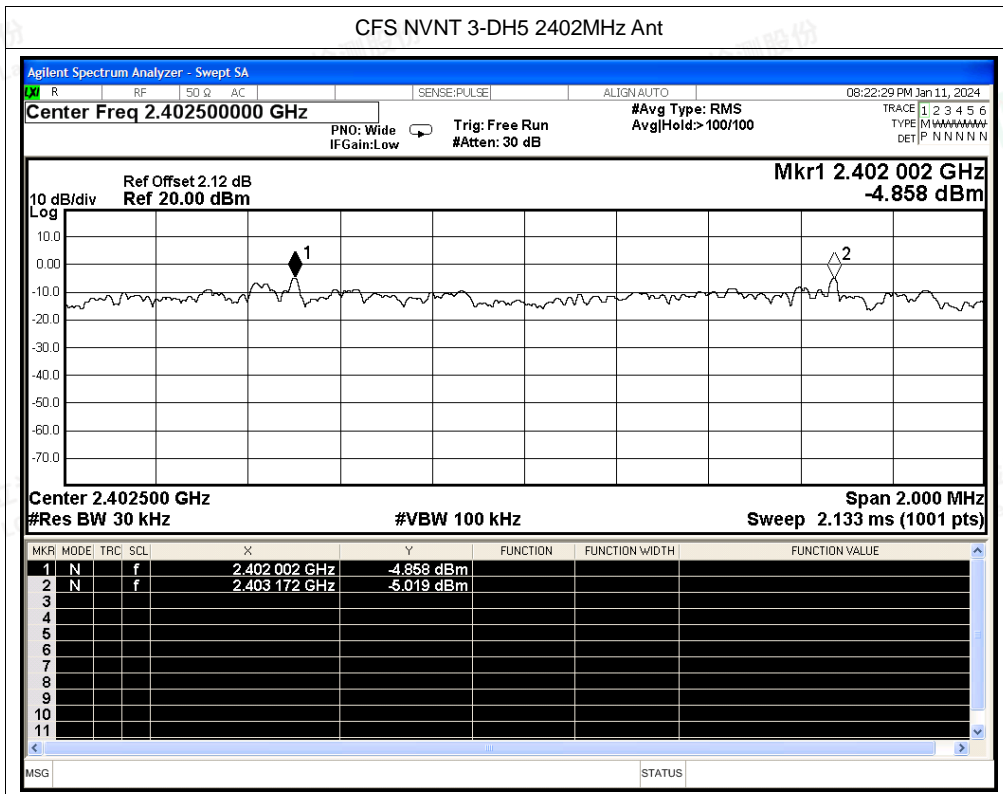
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant



CFS NVNT 2-DH5 2402MHz Ant







A.4 Dwell Time

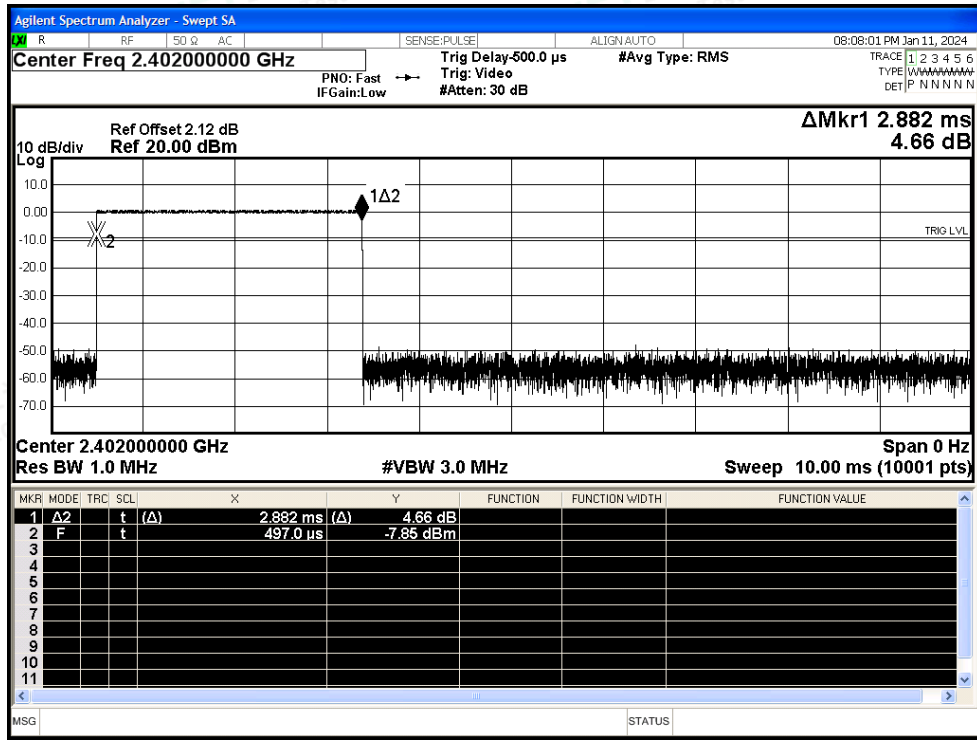
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant	2.882	296.846	103	31600	400	Pass
NVNT	2-DH5	2402	Ant	2.885	291.385	101	31600	400	Pass
NVNT	3-DH5	2402	Ant	2.886	305.916	106	31600	400	Pass



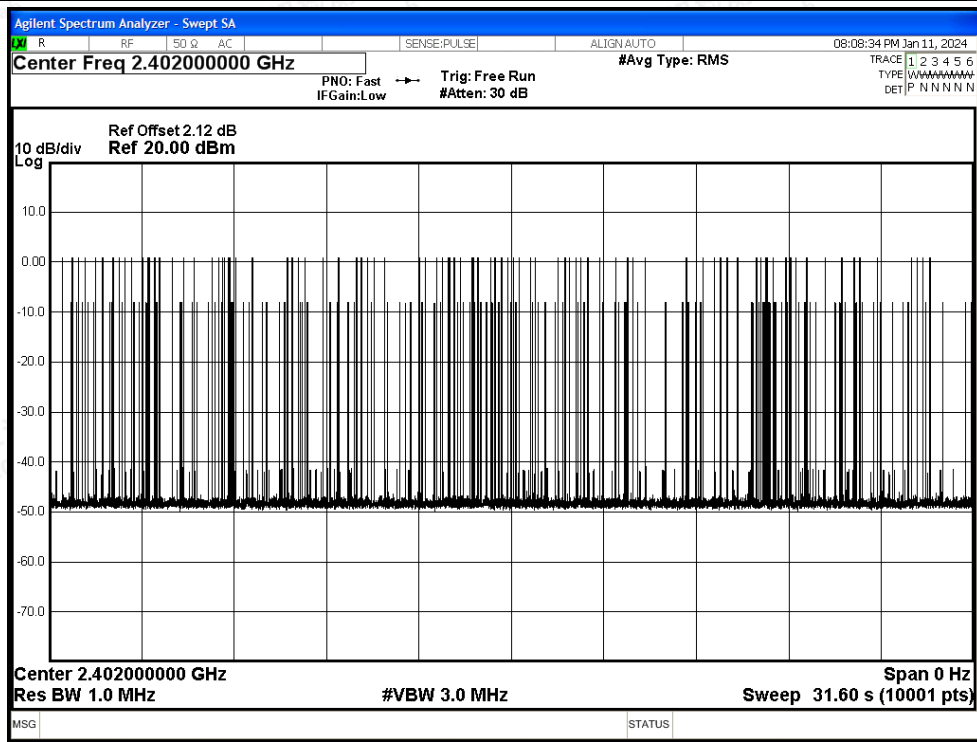


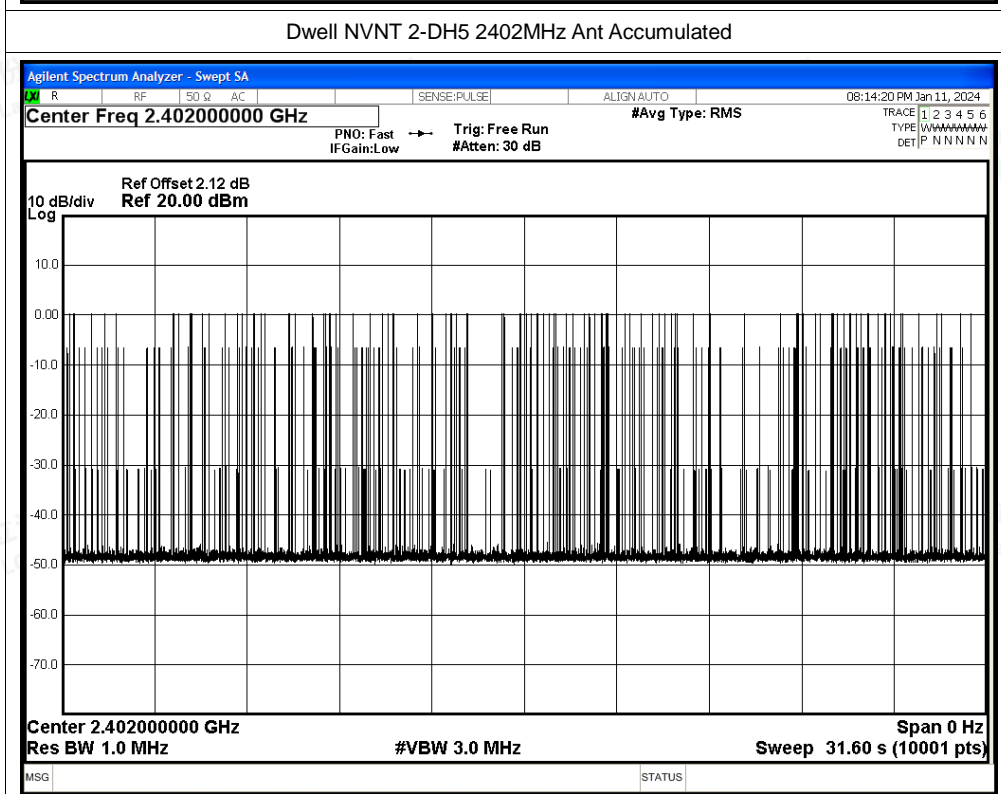
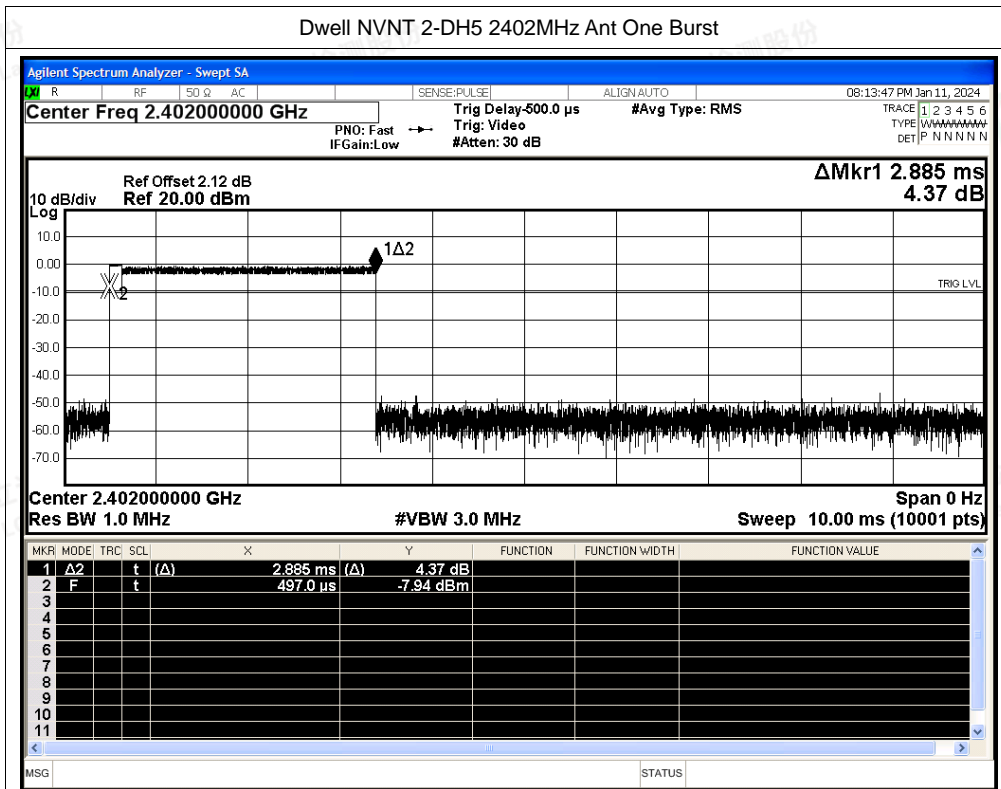
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant One Burst



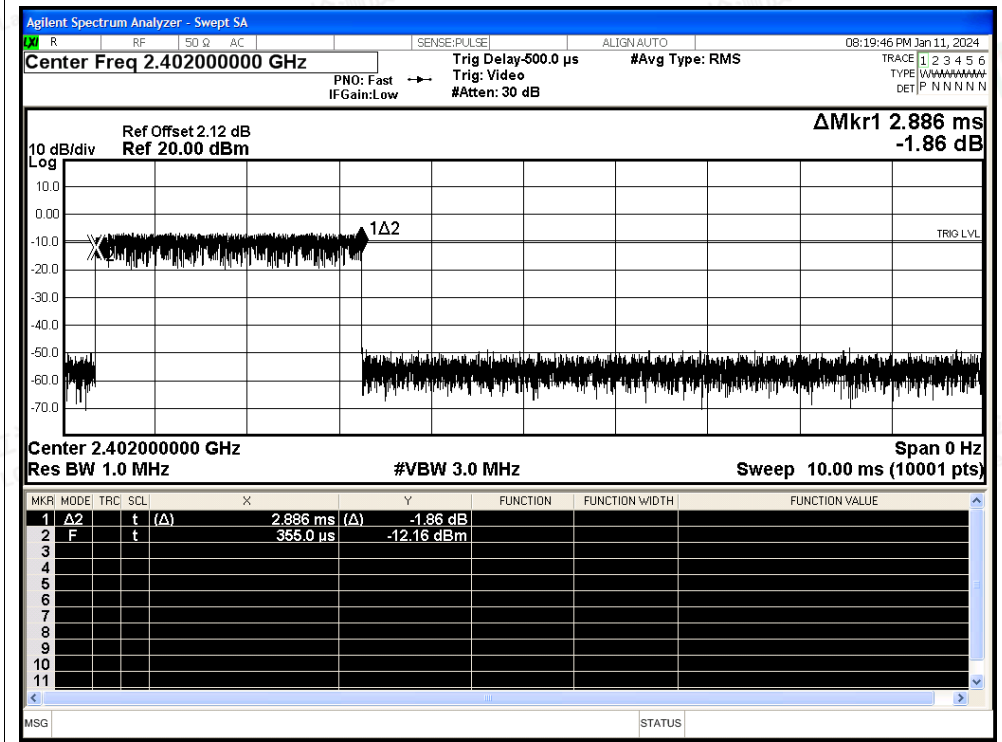
Dwell NVNT 1-DH5 2402MHz Ant Accumulated



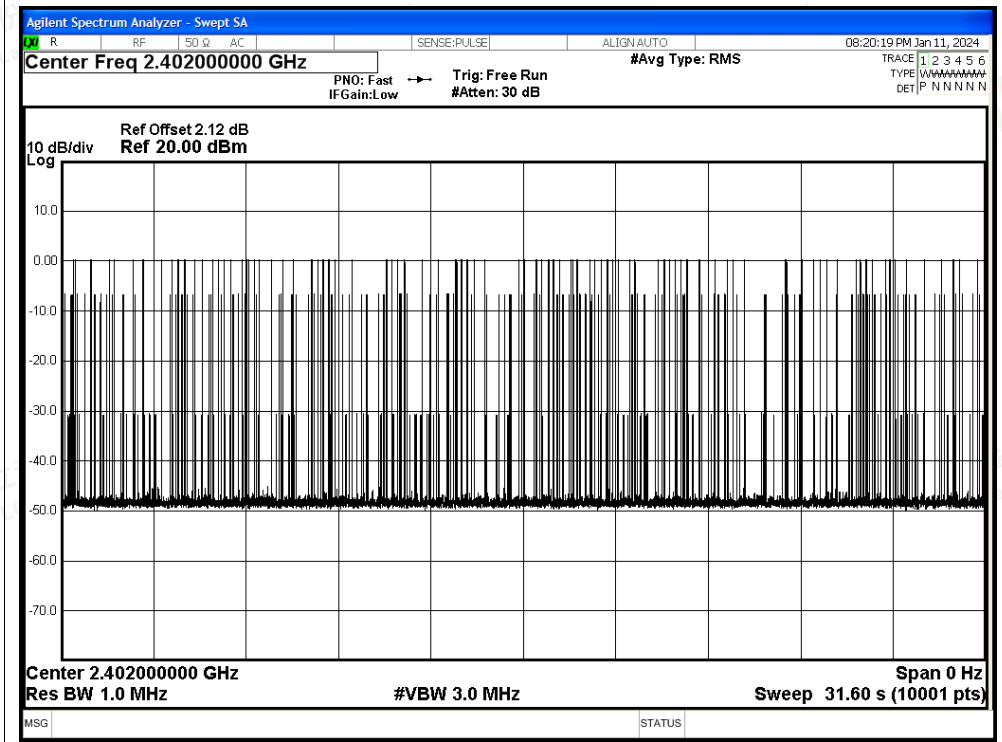




Dwell NVNT 3-DH5 2402MHz Ant One Burst



Dwell NVNT 3-DH5 2402MHz Ant Accumulated





A.5 Number of Hopping Channel

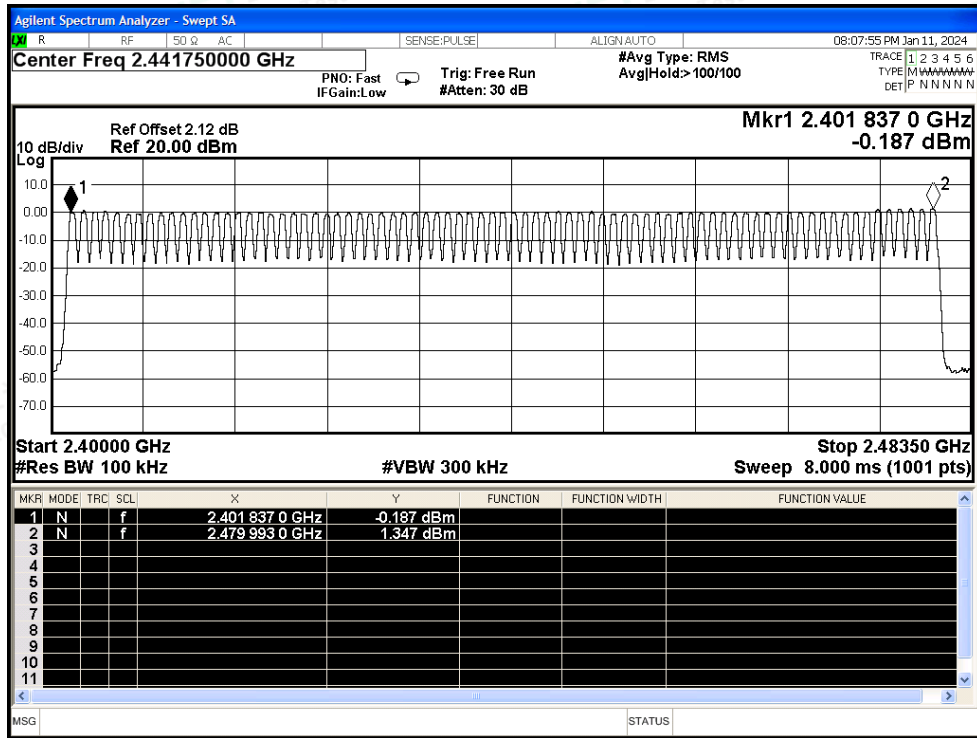
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant	79	15	Pass
NVNT	2-DH5	Ant	79	15	Pass
NVNT	3-DH5	Ant	79	15	Pass



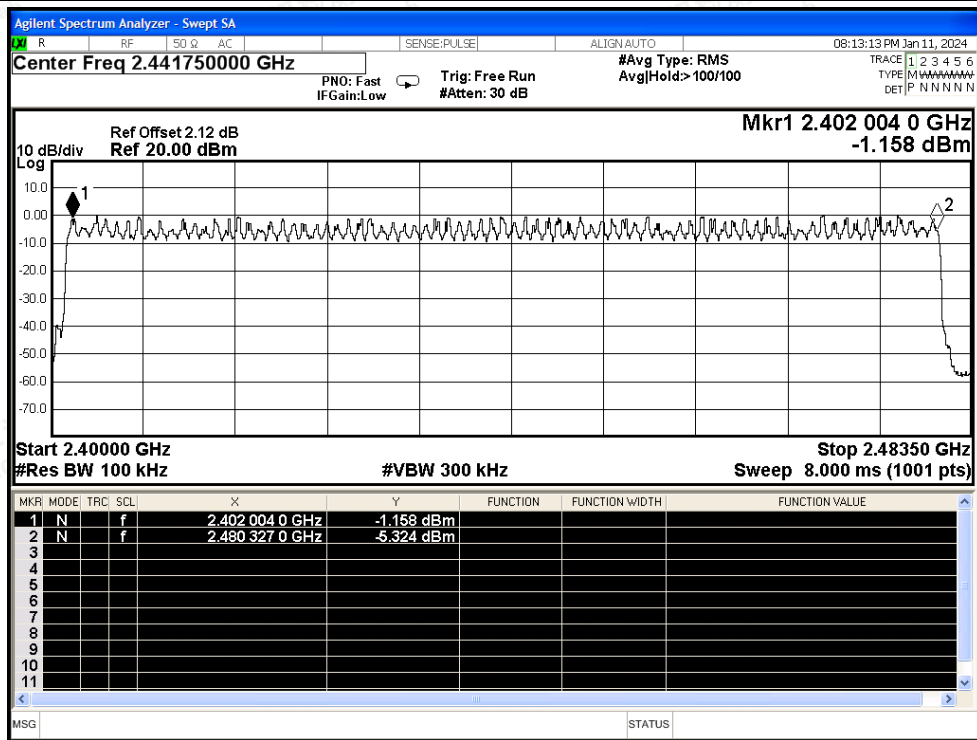


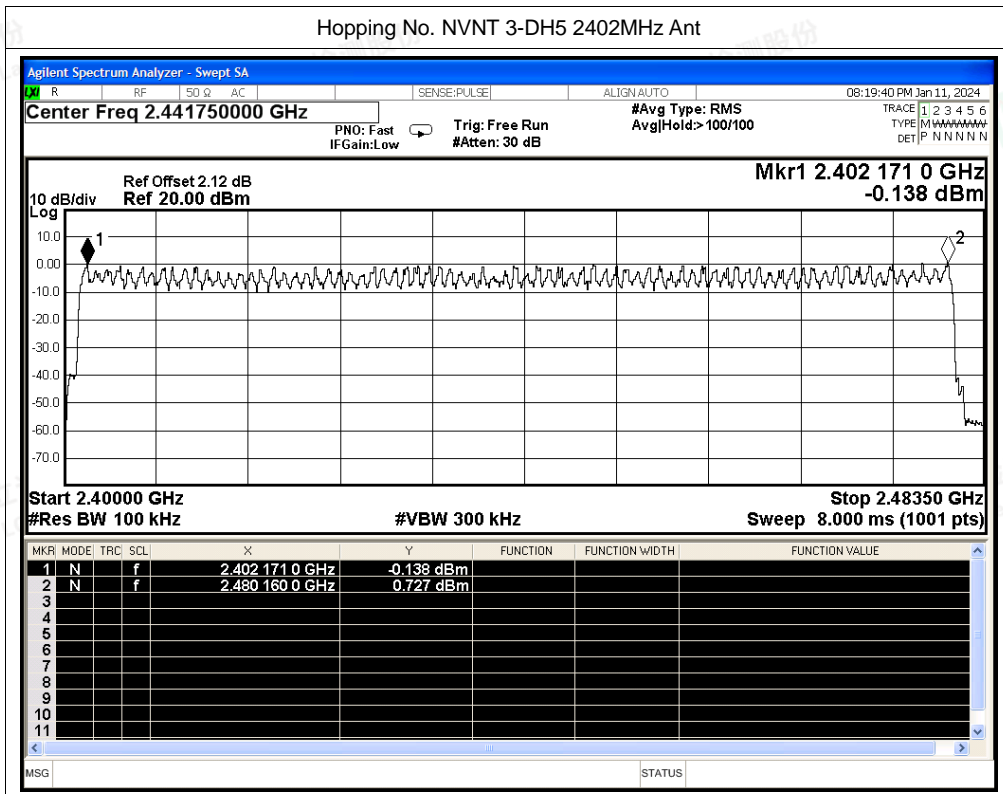
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant



Hopping No. NVNT 2-DH5 2402MHz Ant







A.6 Band Edge

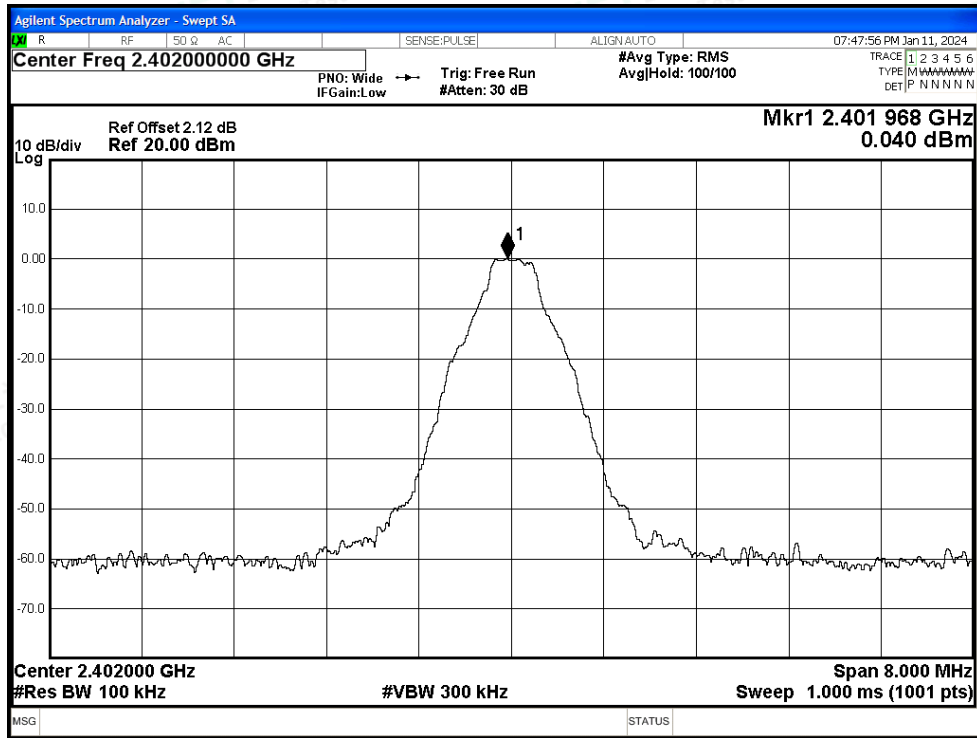
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	-56.82	-20	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	-56.69	-20	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	-54.89	-20	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	-57	-20	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	-52.54	-20	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	-57.25	-20	Pass



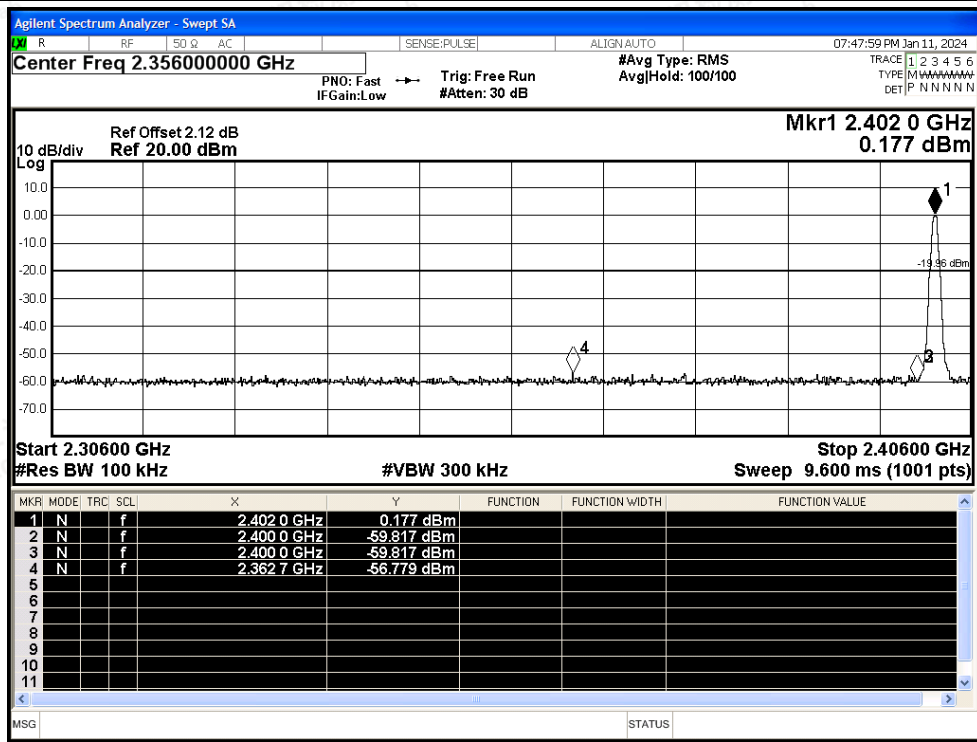


Test Graphs

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

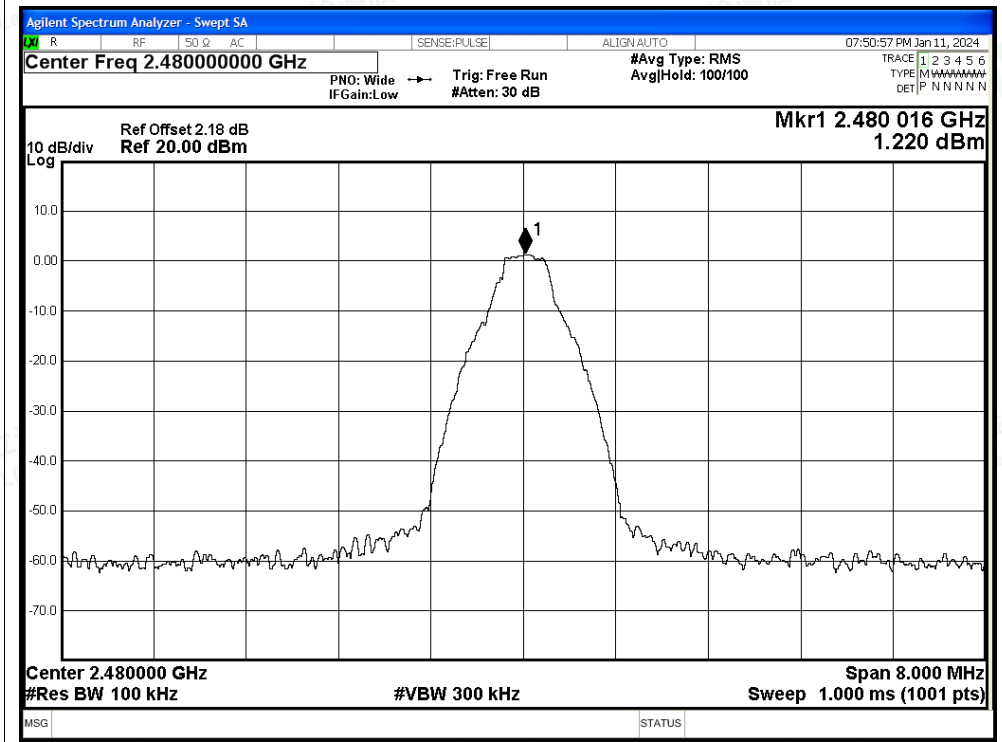


Band Edge NVNT 1-DH5 2402MHz Ant No-Hopping Emission

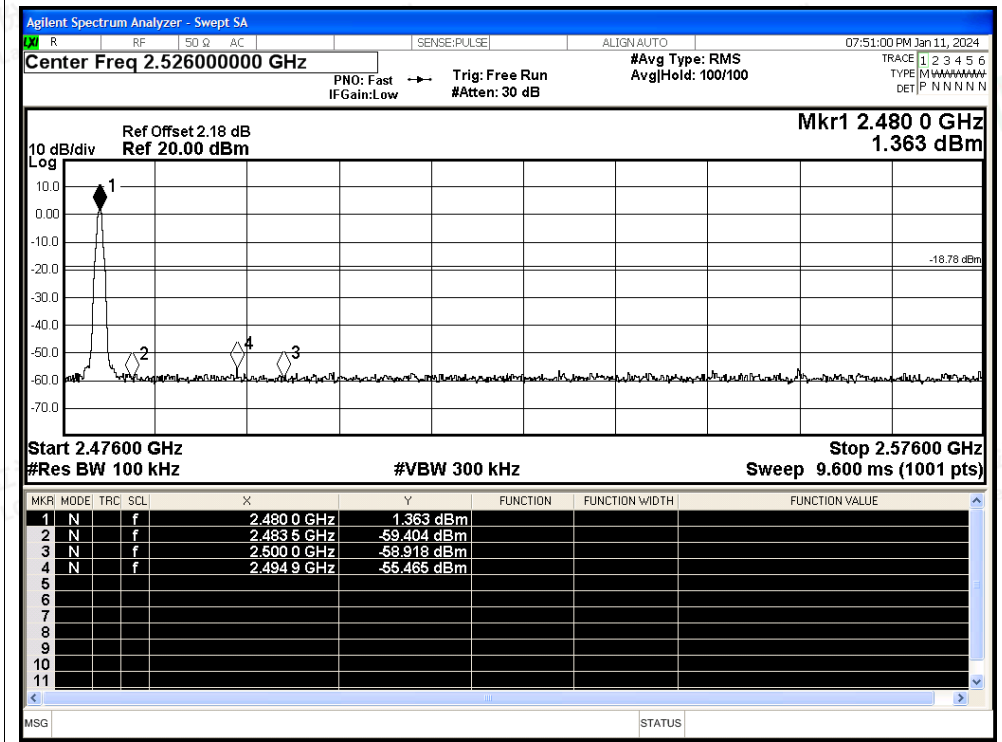




Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Ref

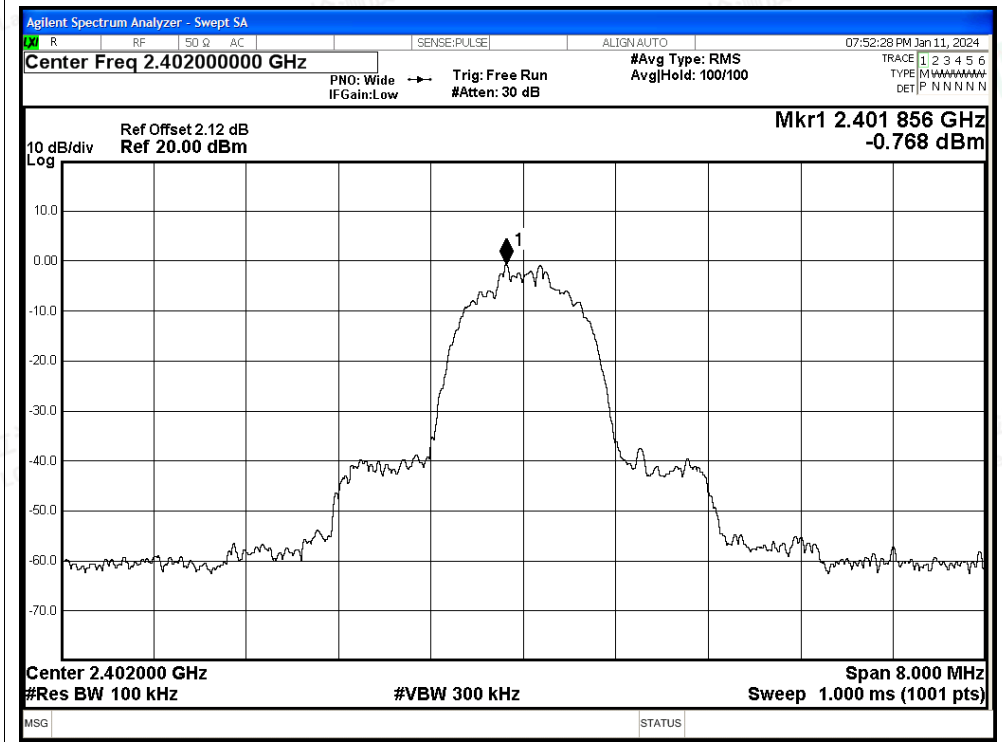


Band Edge NVNT 1-DH5 2480MHz Ant No-Hopping Emission

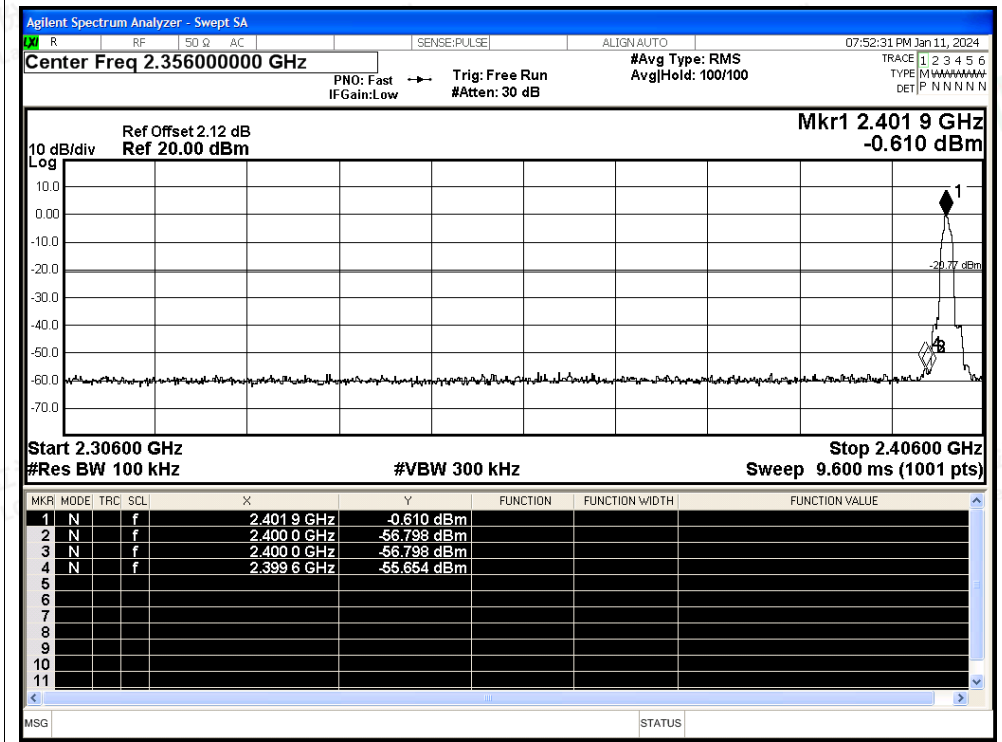




Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Ref

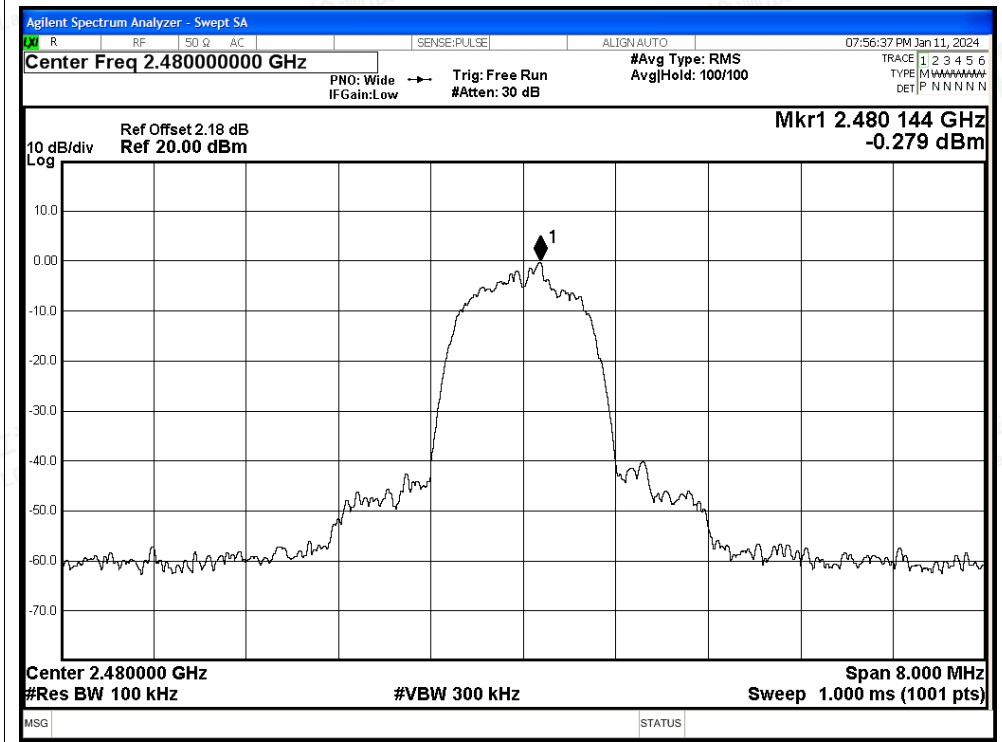


Band Edge NVNT 2-DH5 2402MHz Ant No-Hopping Emission

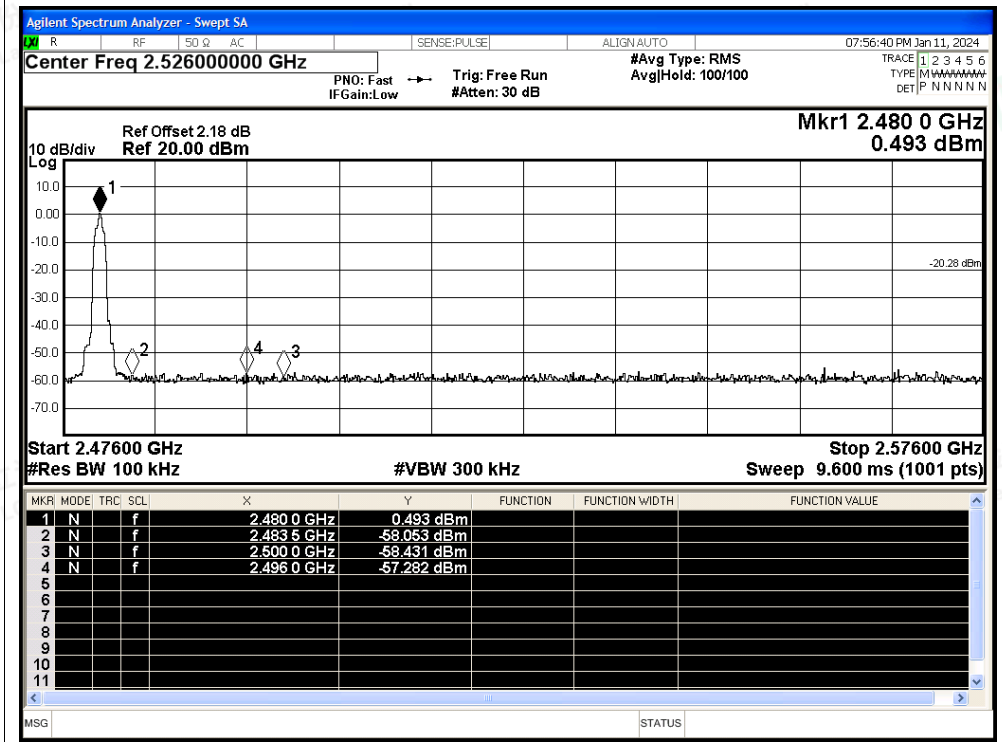




Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Ref

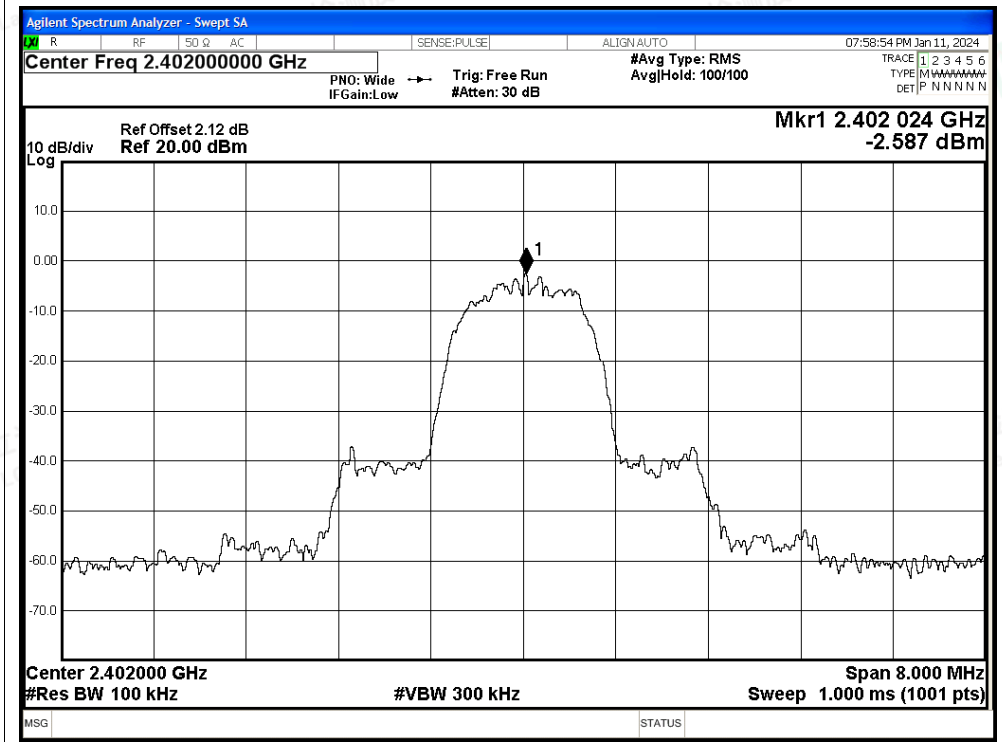


Band Edge NVNT 2-DH5 2480MHz Ant No-Hopping Emission

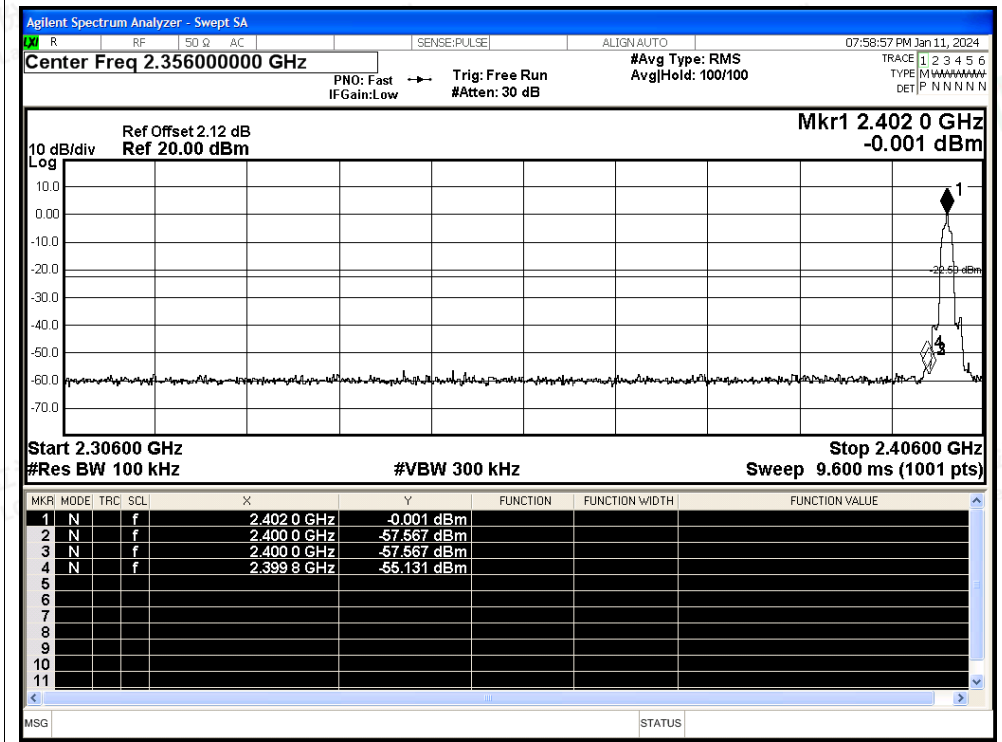




Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Ref

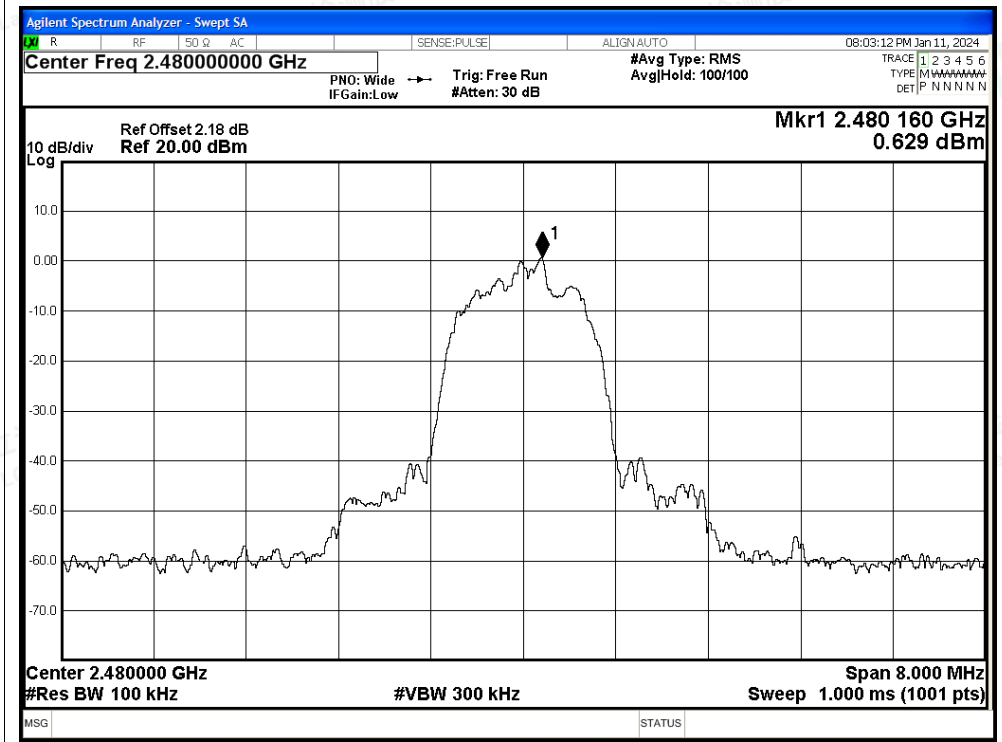


Band Edge NVNT 3-DH5 2402MHz Ant No-Hopping Emission

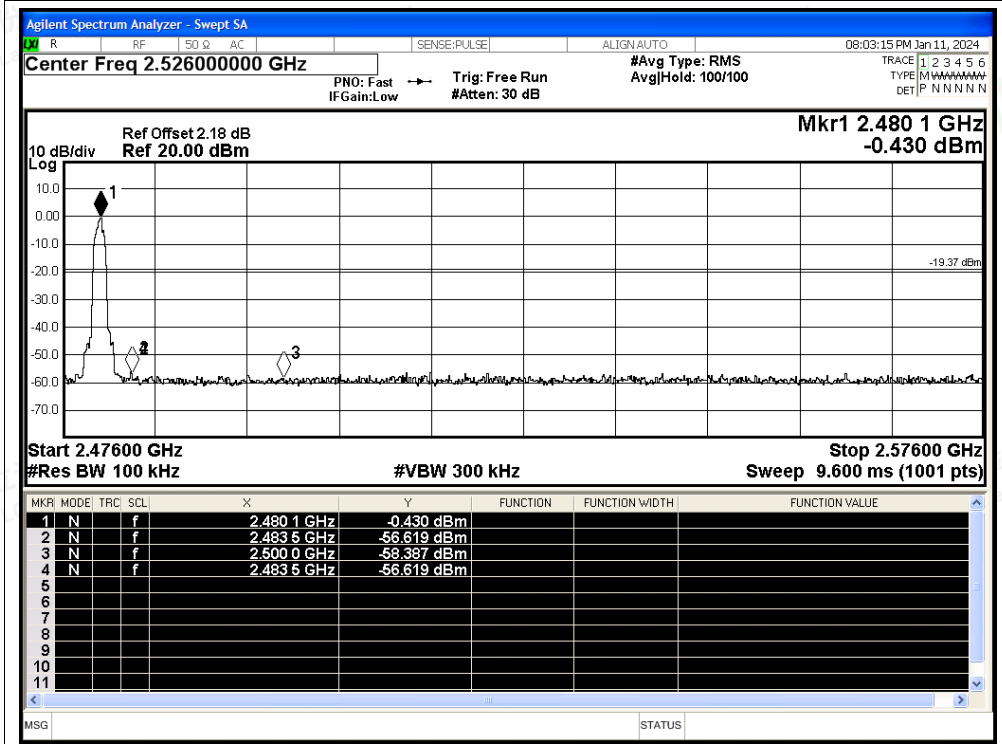




Band Edge NVNT 3-DH5 2480MHz Ant No-Hopping Ref



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





(Hopping)

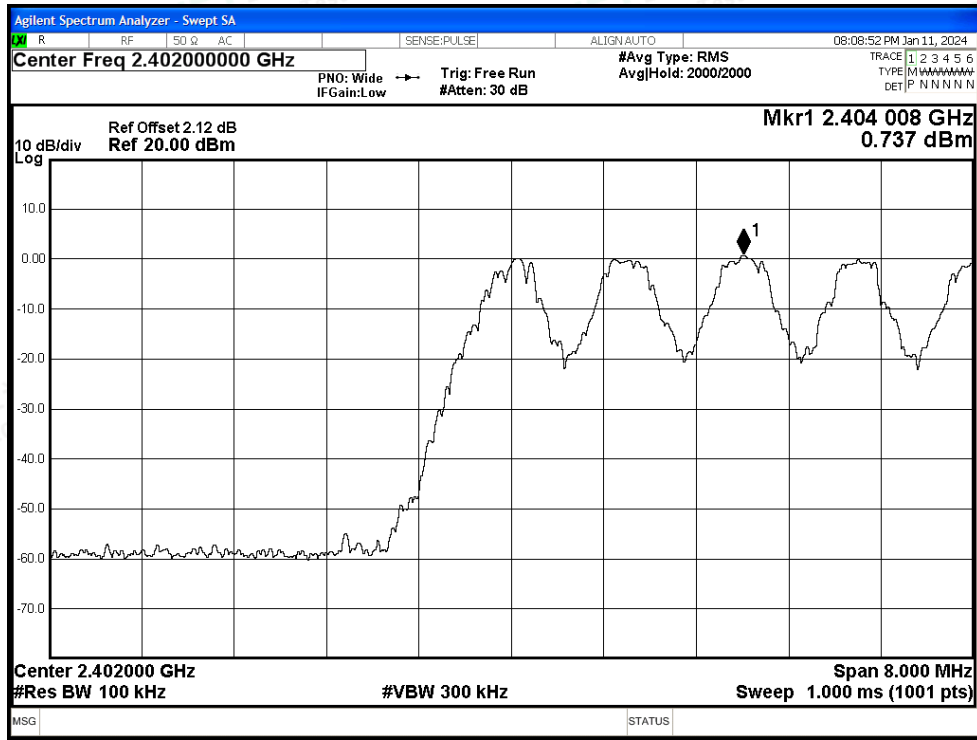
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	Hopping	-56.56	-20	Pass
NVNT	1-DH5	2480	Ant	Hopping	-57.08	-20	Pass
NVNT	2-DH5	2402	Ant	Hopping	-55.82	-20	Pass
NVNT	2-DH5	2480	Ant	Hopping	-56.65	-20	Pass
NVNT	3-DH5	2402	Ant	Hopping	-55.76	-20	Pass
NVNT	3-DH5	2480	Ant	Hopping	-53.05	-20	Pass



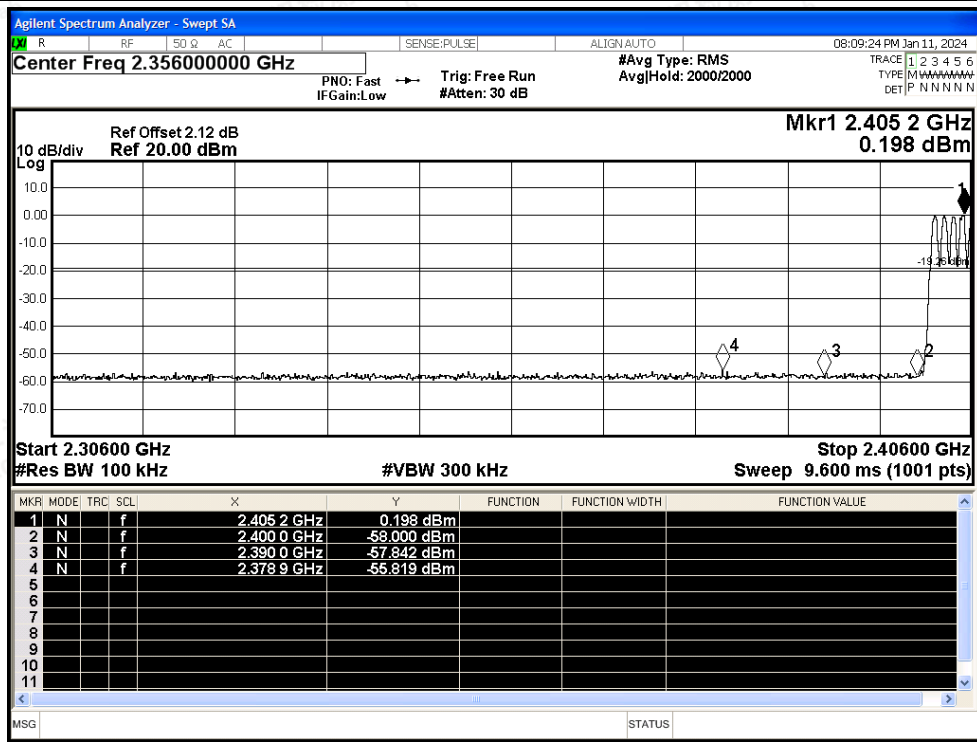


Test Graphs

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

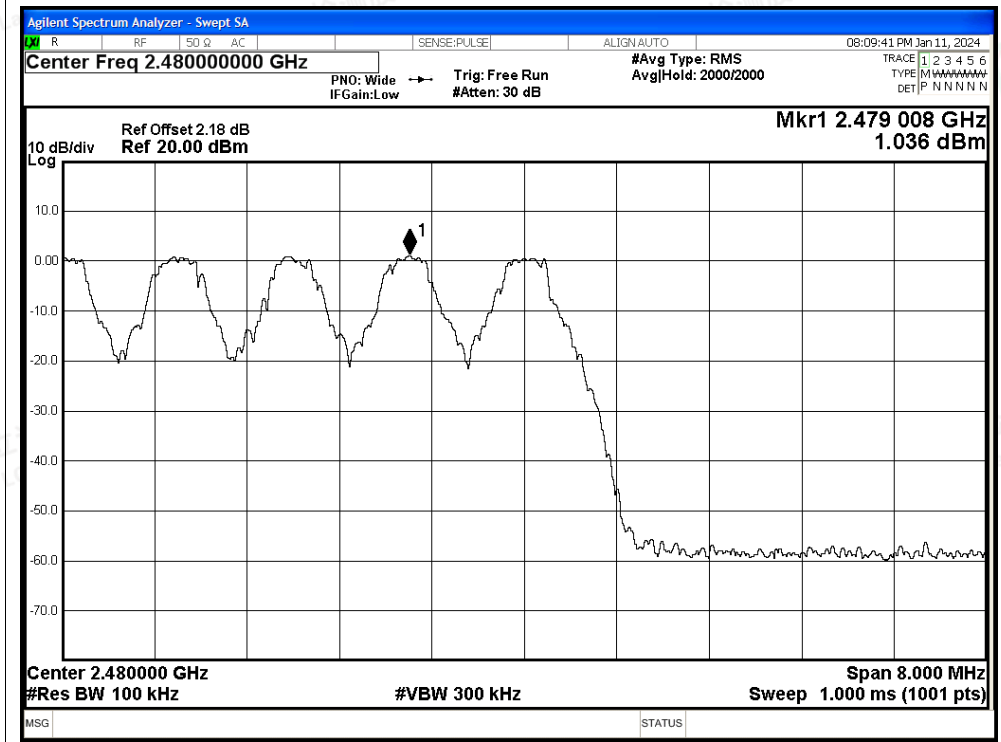


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant Hopping Emission

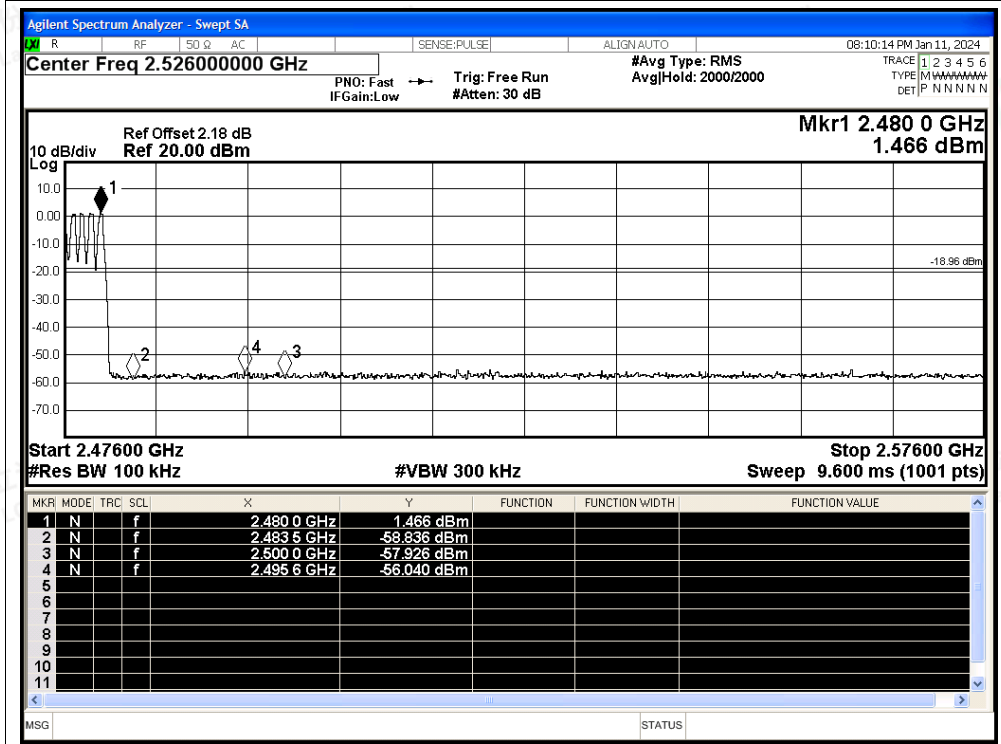




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Ref

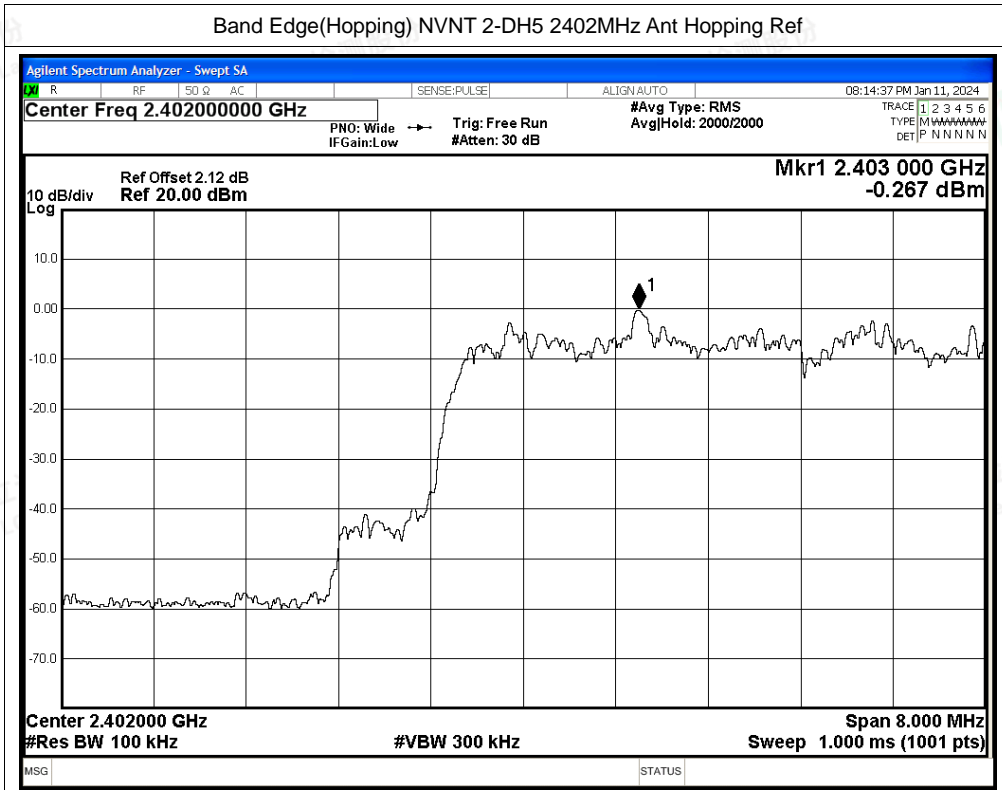


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant Hopping Emission

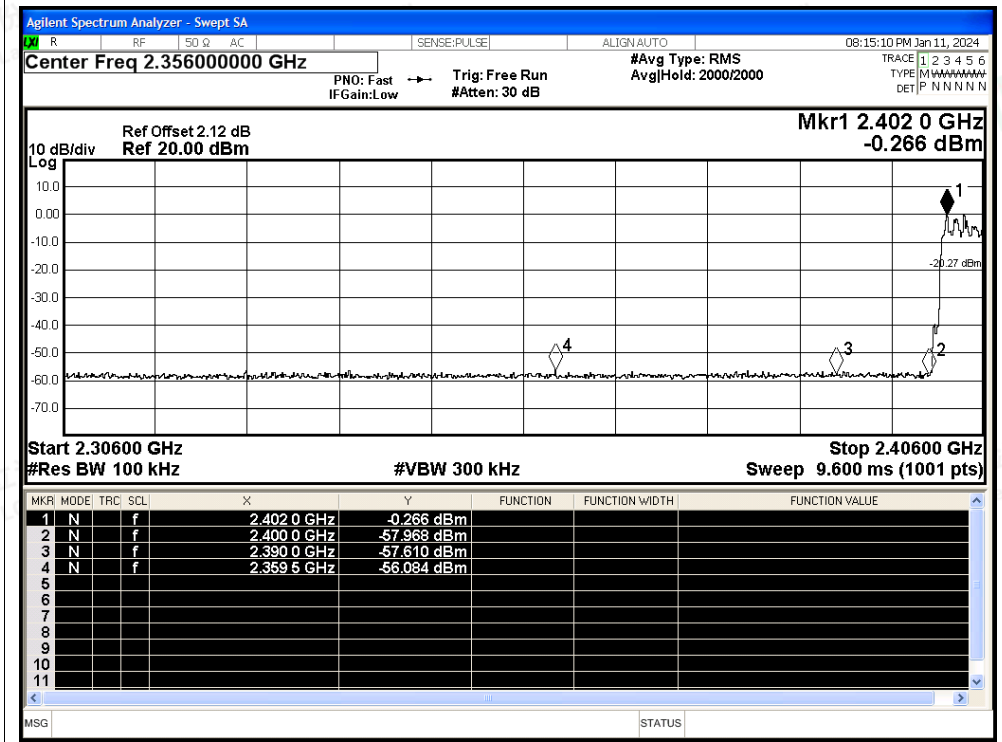




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Ref

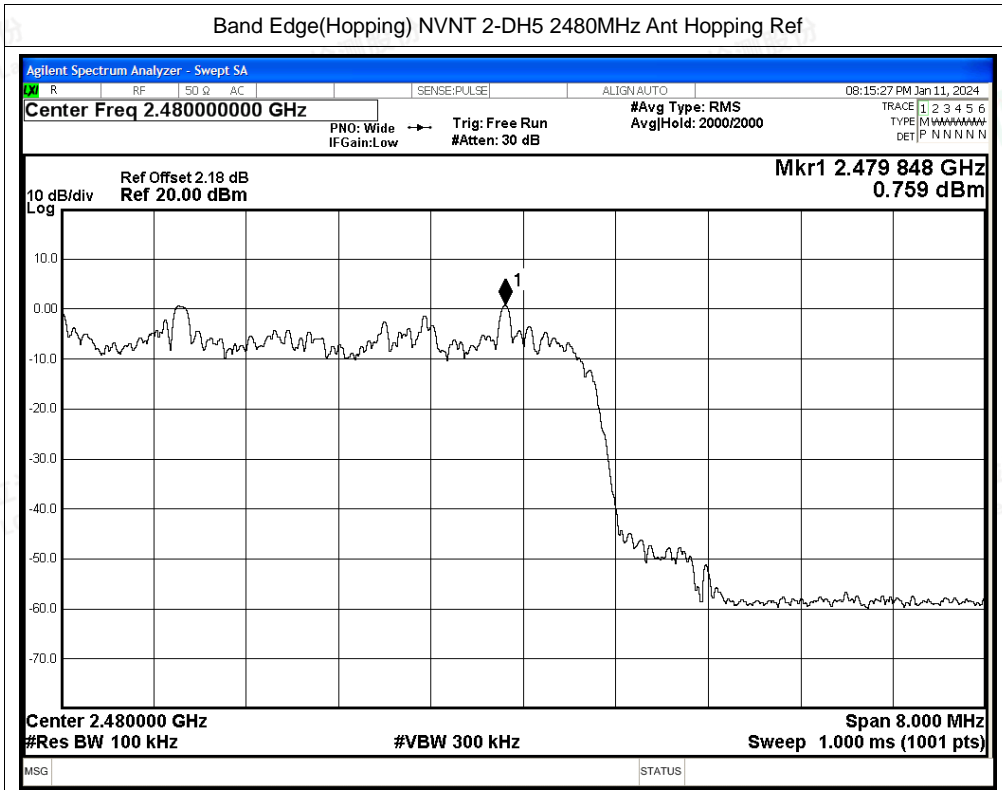


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant Hopping Emission

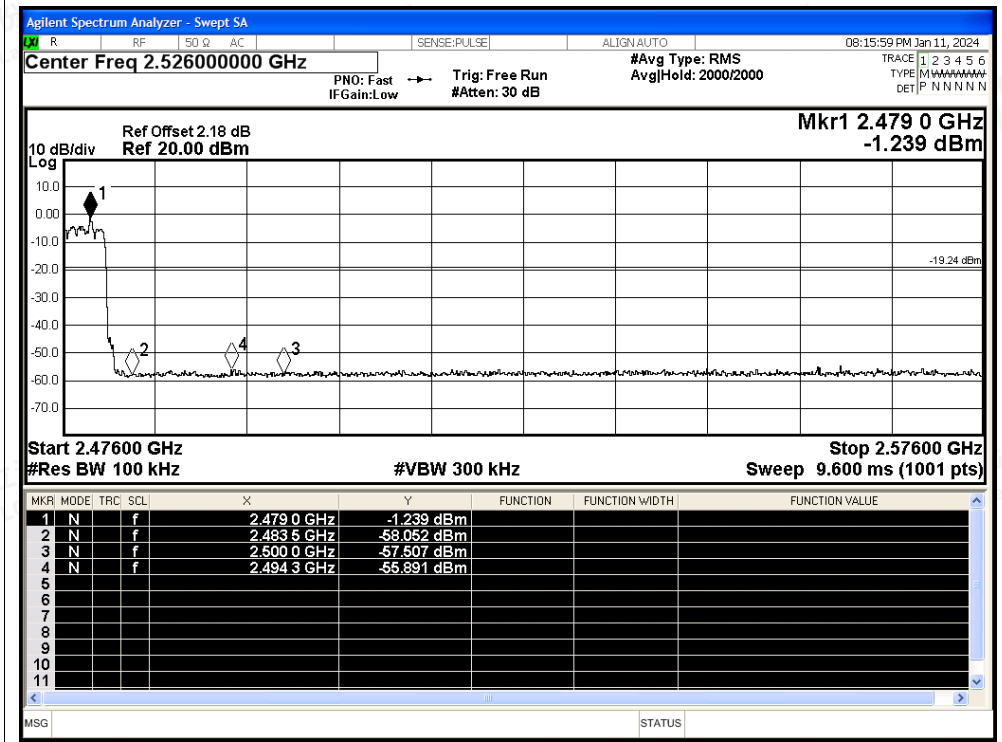




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Ref

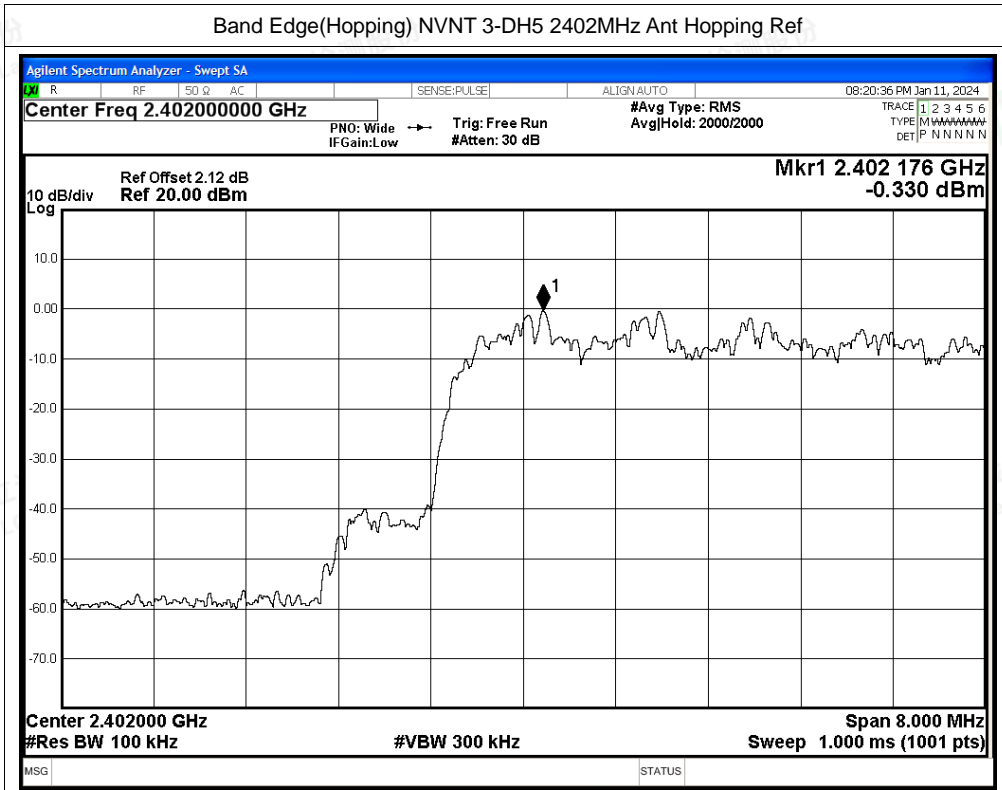


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant Hopping Emission

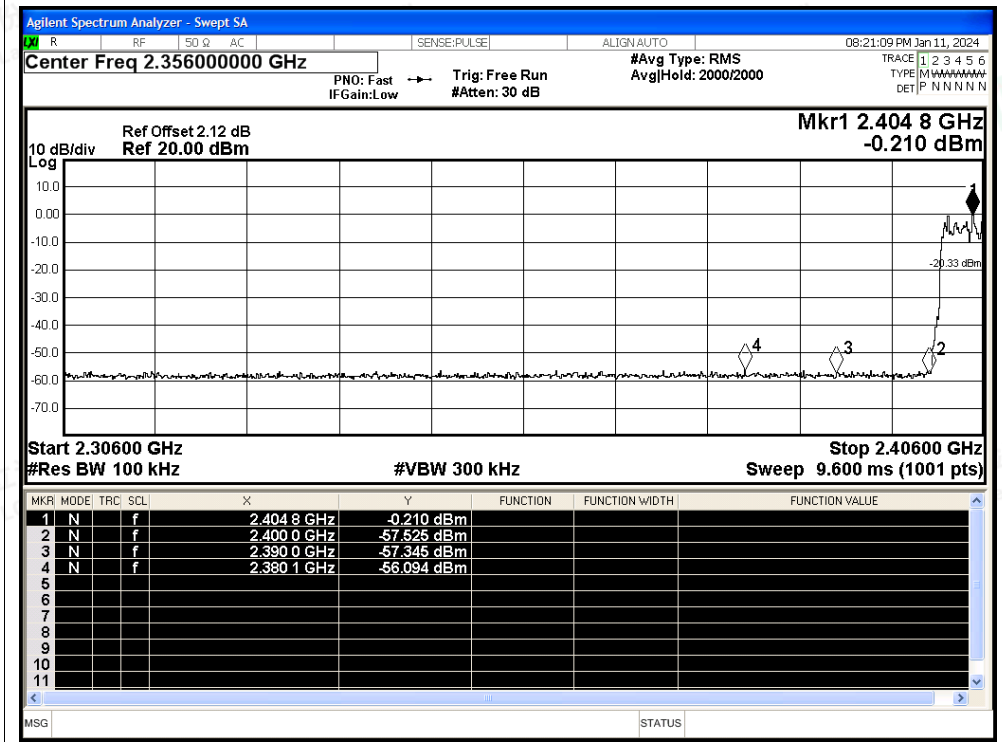




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Ref

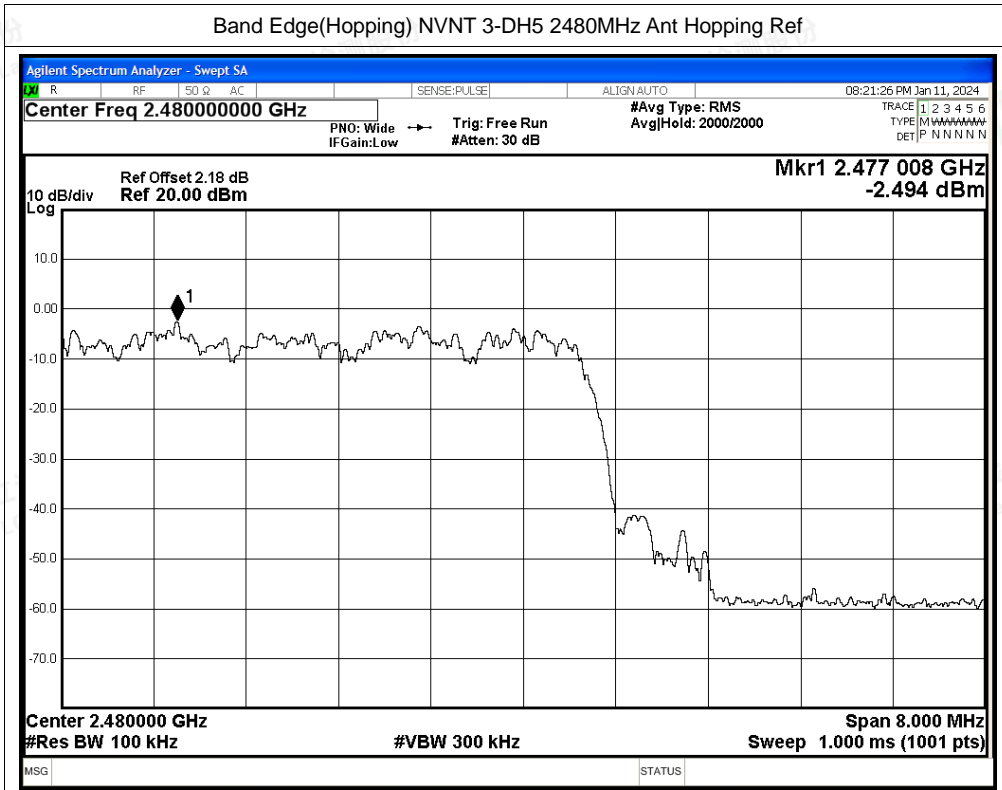


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant Hopping Emission

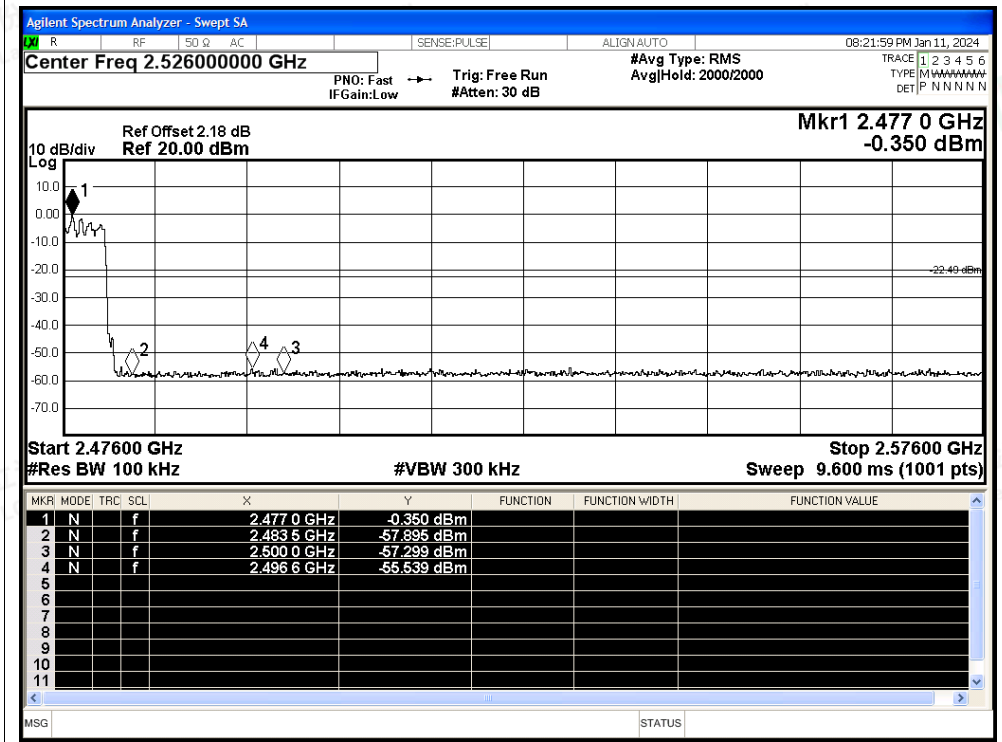




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant Hopping Emission





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant	-55.57	-20	Pass
NVNT	1-DH5	2441	Ant	-55.48	-20	Pass
NVNT	1-DH5	2480	Ant	-55.77	-20	Pass
NVNT	2-DH5	2402	Ant	-54.95	-20	Pass
NVNT	2-DH5	2441	Ant	-54.11	-20	Pass
NVNT	2-DH5	2480	Ant	-54.78	-20	Pass
NVNT	3-DH5	2402	Ant	-54.68	-20	Pass
NVNT	3-DH5	2441	Ant	-54.4	-20	Pass
NVNT	3-DH5	2480	Ant	-55.36	-20	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

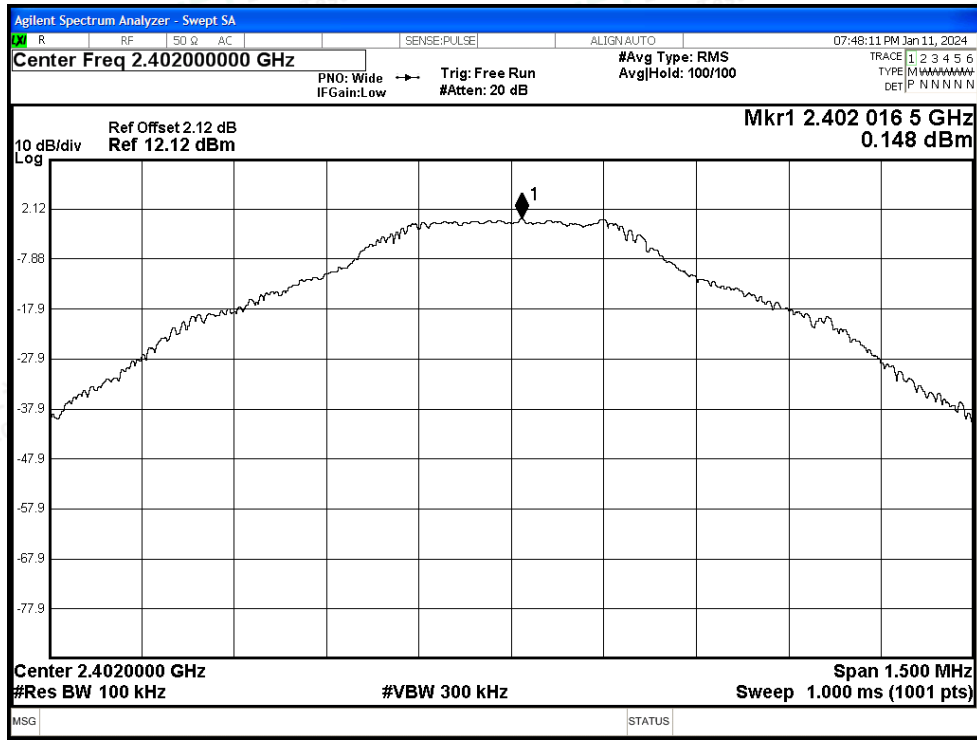
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

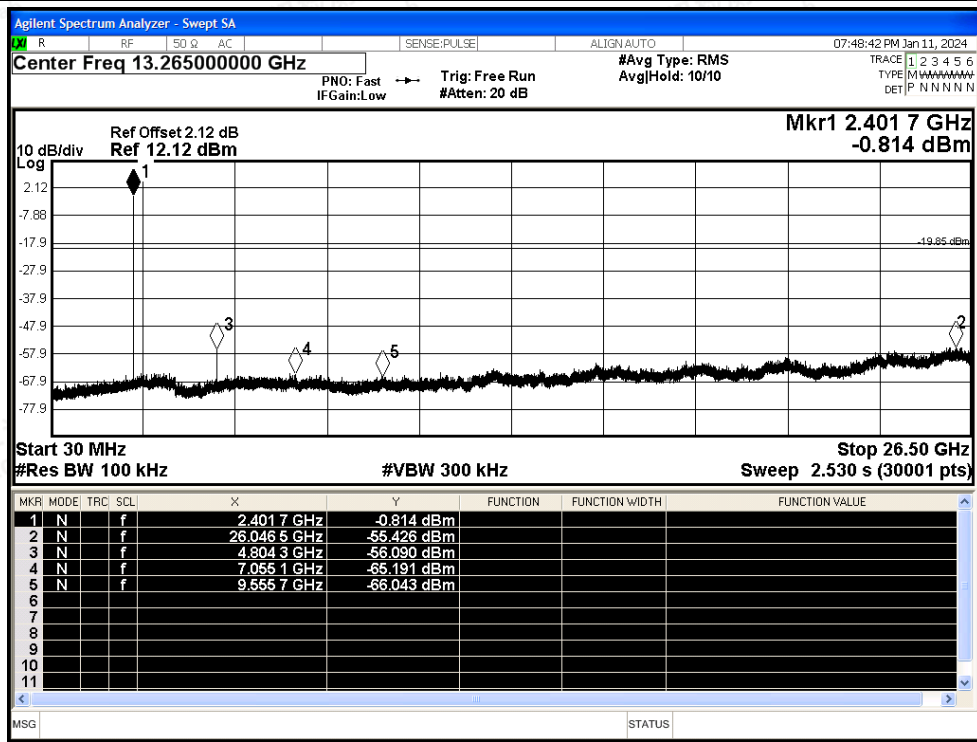


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant Ref

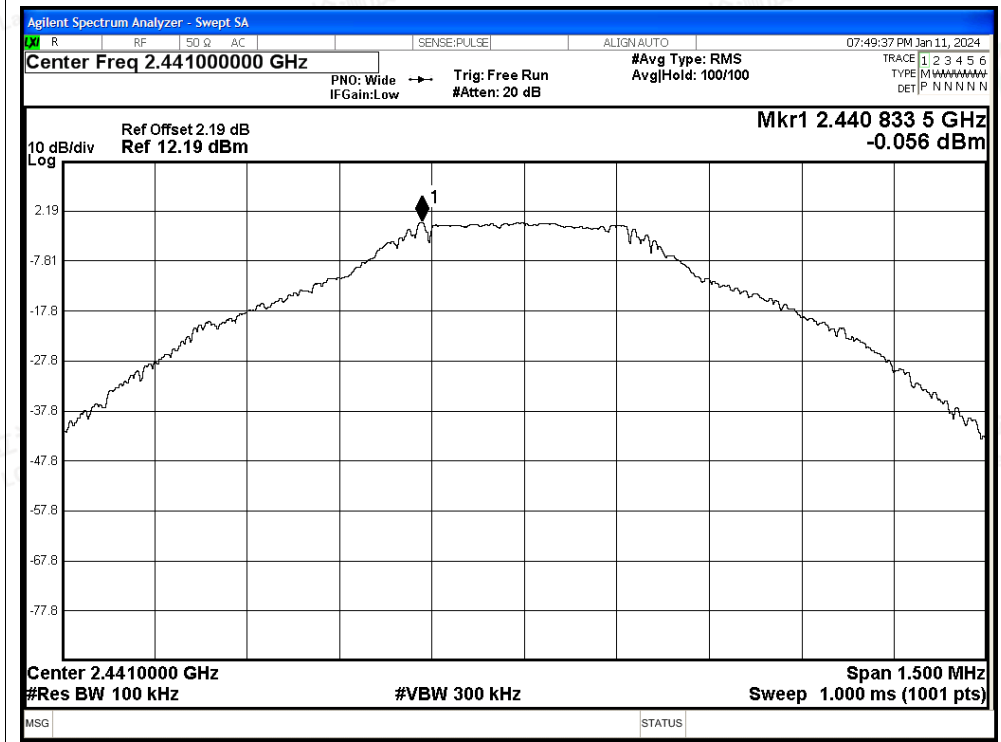


Tx. Spurious NVNT 1-DH5 2402MHz Ant Emission

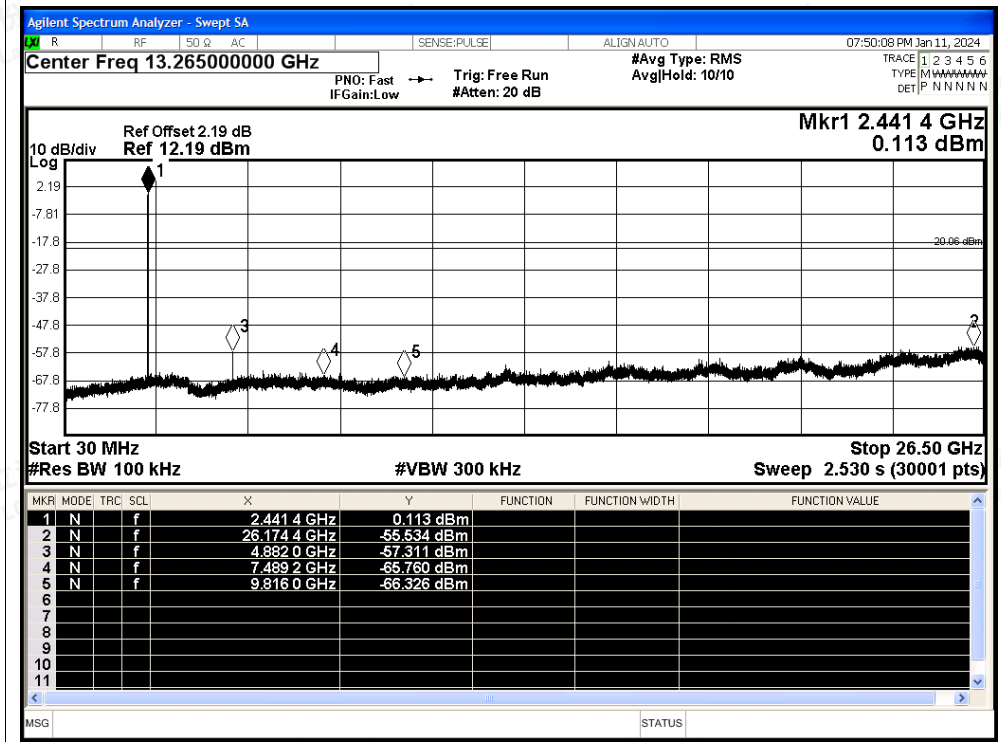




Tx. Spurious NVNT 1-DH5 2441MHz Ant Ref

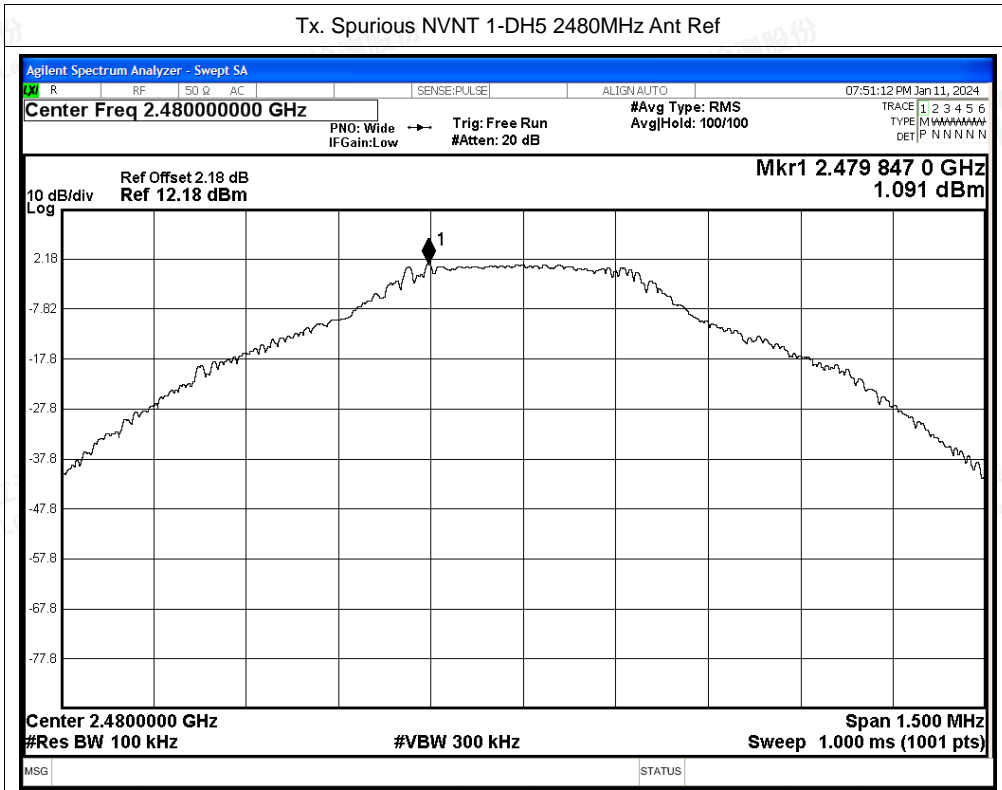


Tx. Spurious NVNT 1-DH5 2441MHz Ant Emission

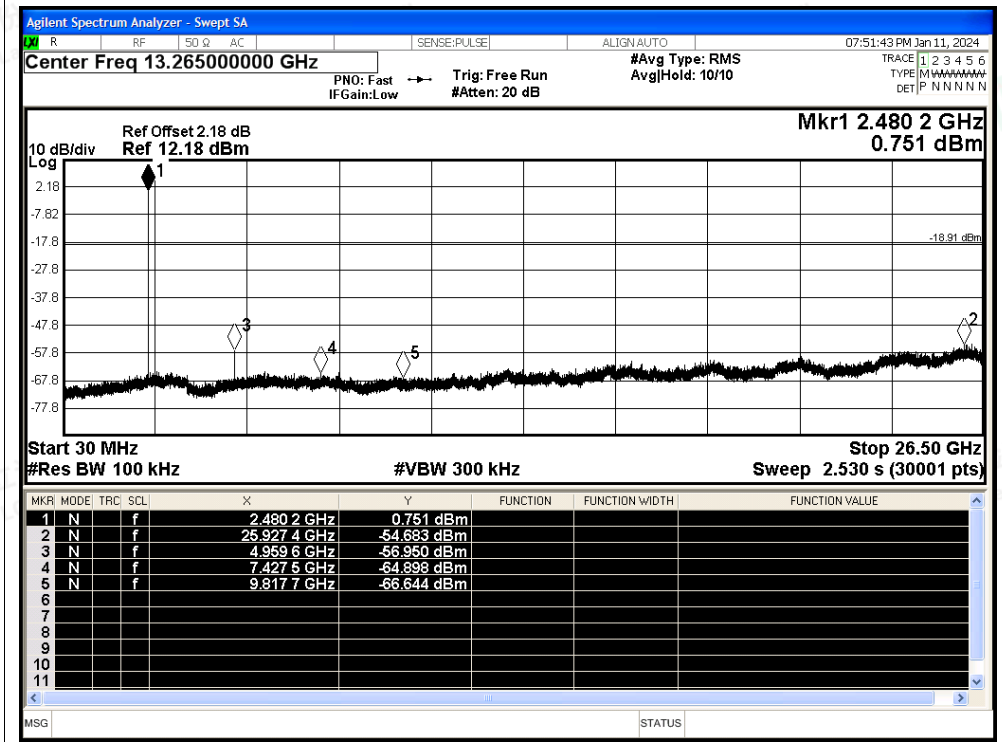




Tx. Spurious NVNT 1-DH5 2480MHz Ant Ref

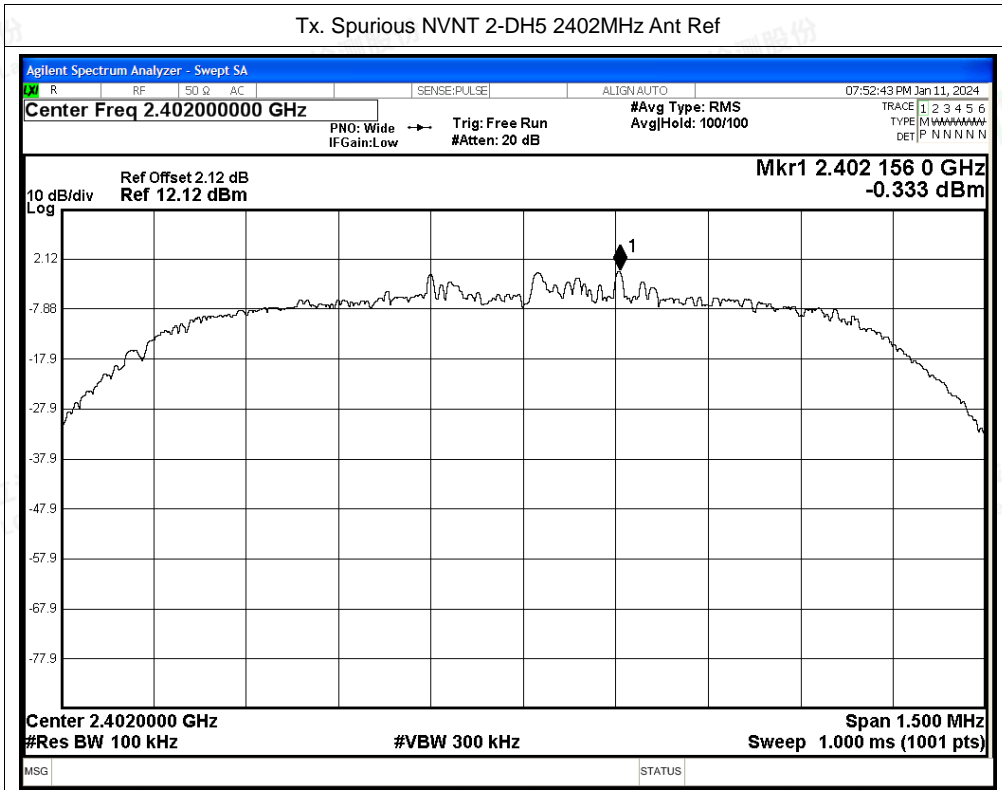


Tx. Spurious NVNT 1-DH5 2480MHz Ant Emission

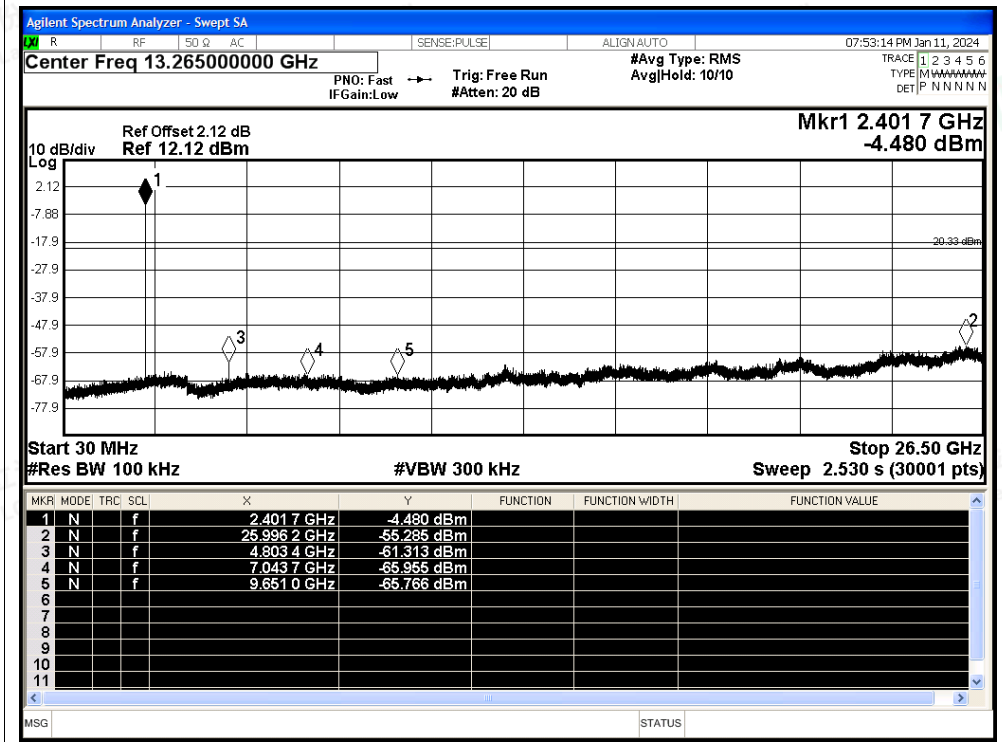




Tx. Spurious NVNT 2-DH5 2402MHz Ant Ref

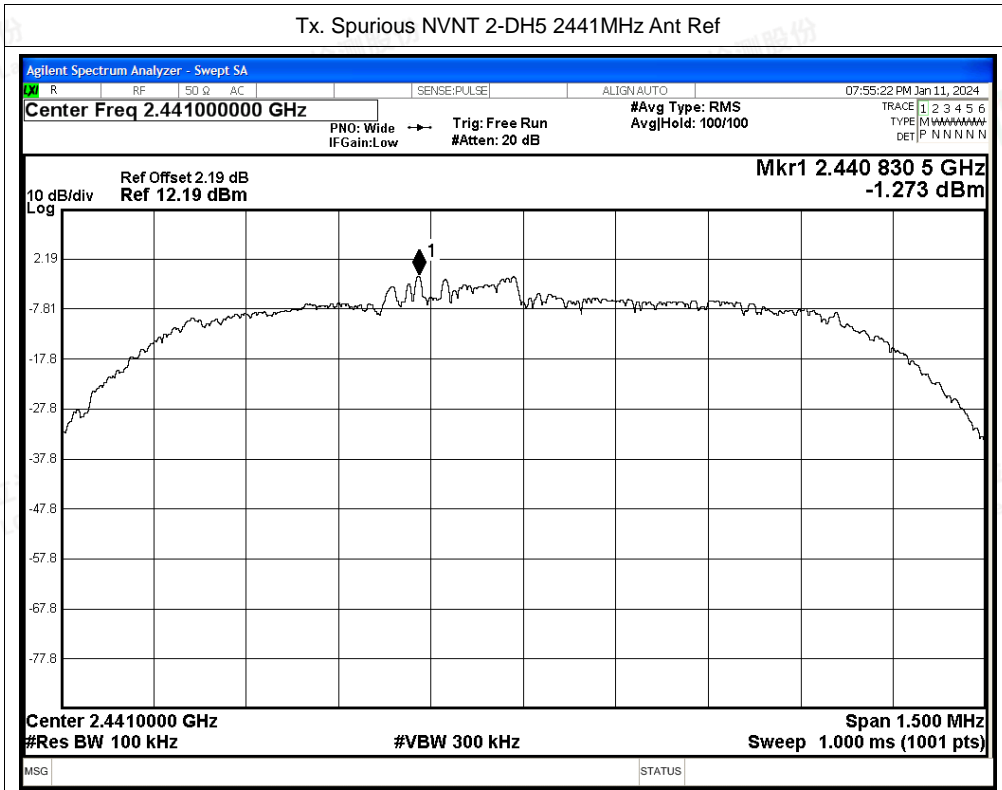


Tx. Spurious NVNT 2-DH5 2402MHz Ant Emission

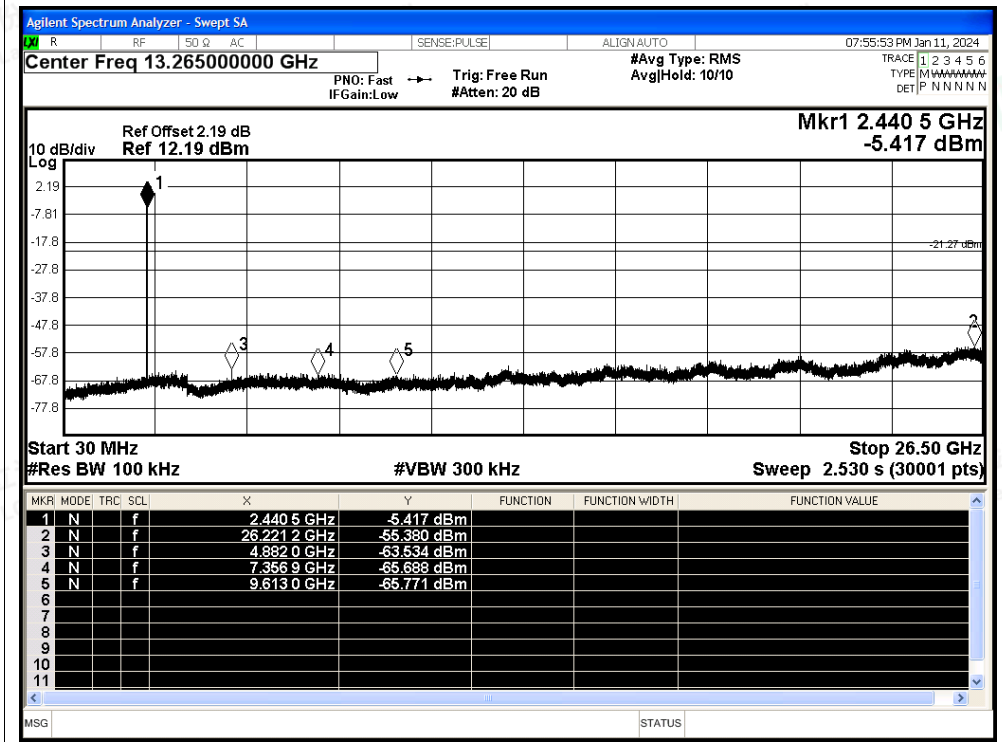




Tx. Spurious NVNT 2-DH5 2441MHz Ant Ref

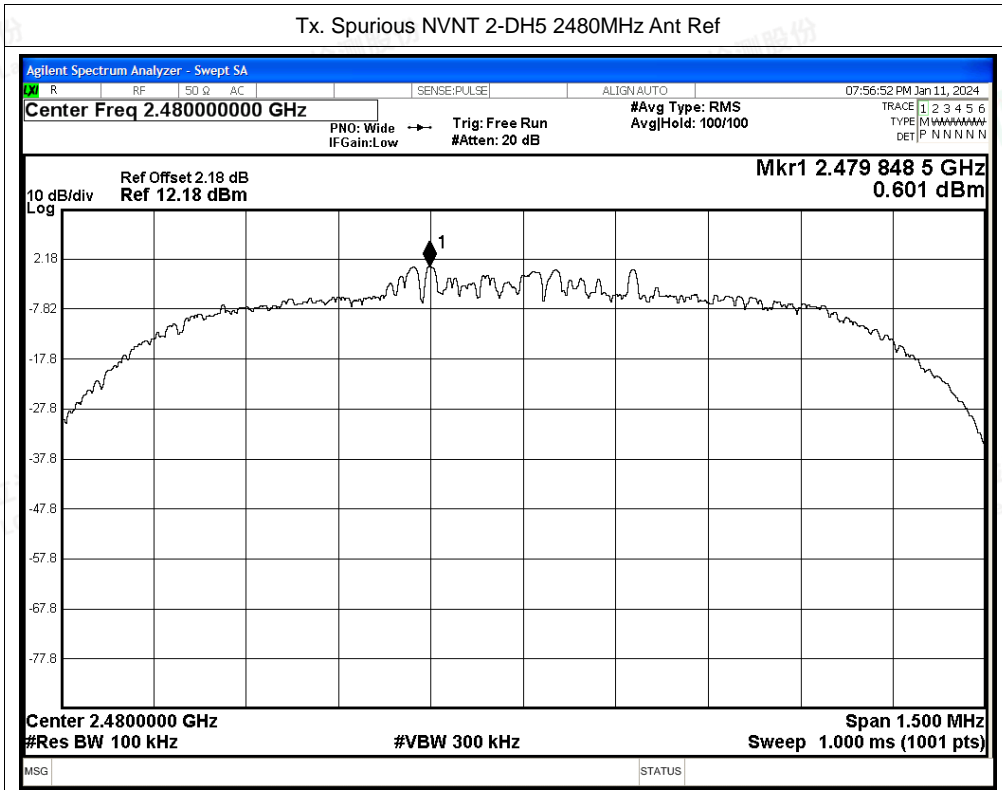


Tx. Spurious NVNT 2-DH5 2441MHz Ant Emission

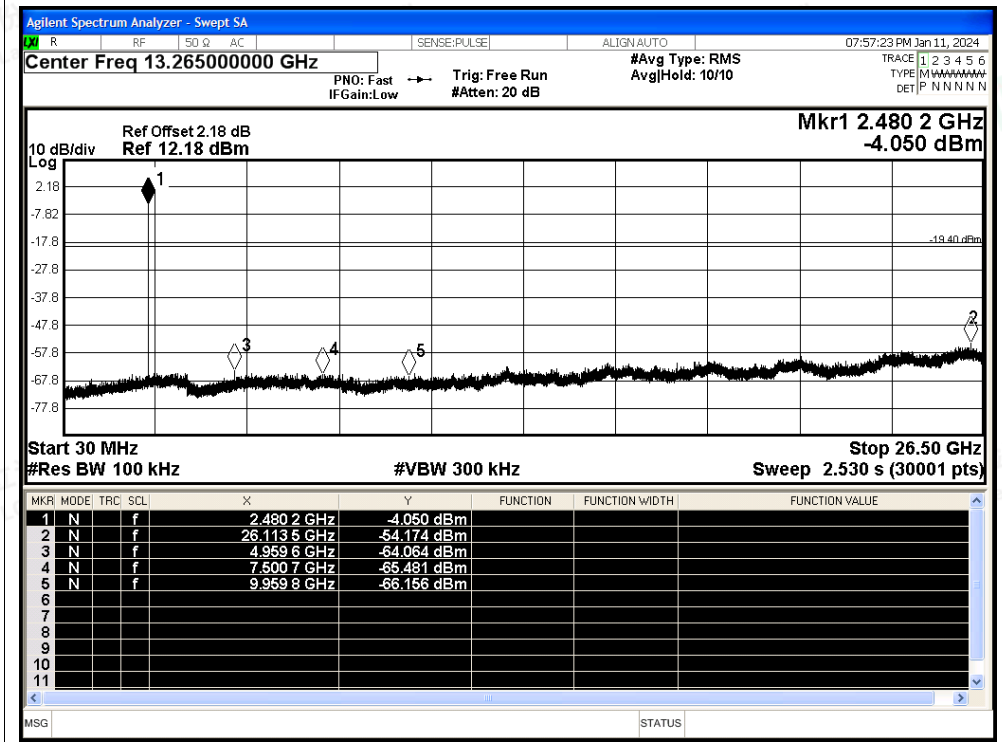




Tx. Spurious NVNT 2-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

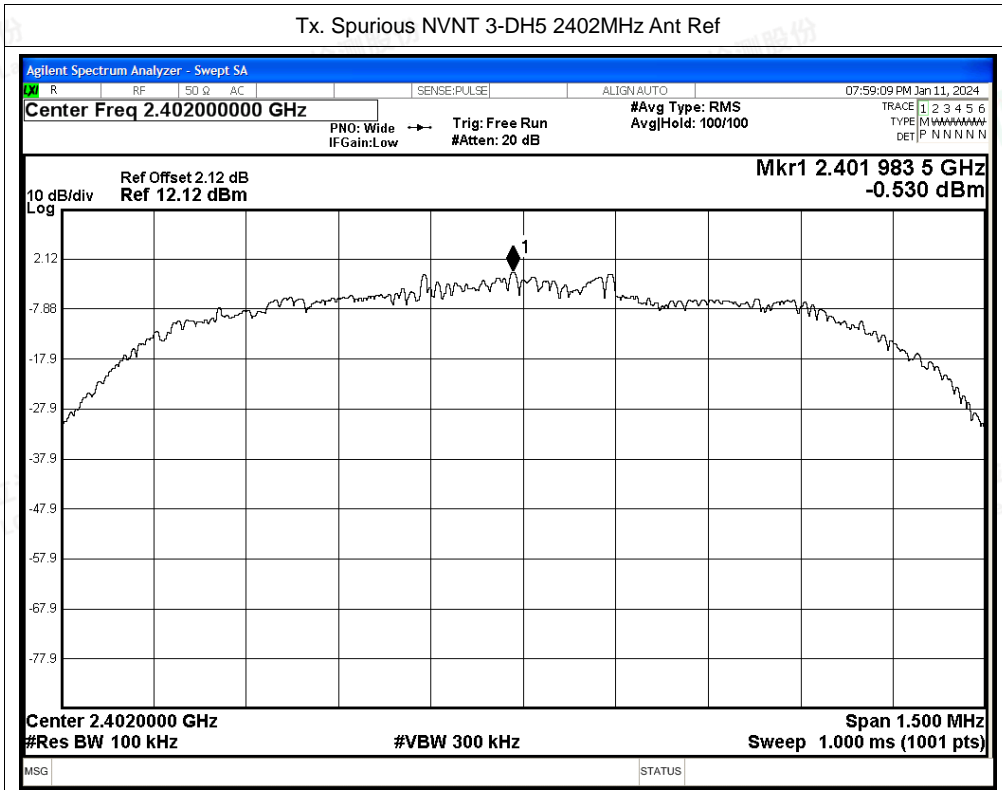
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

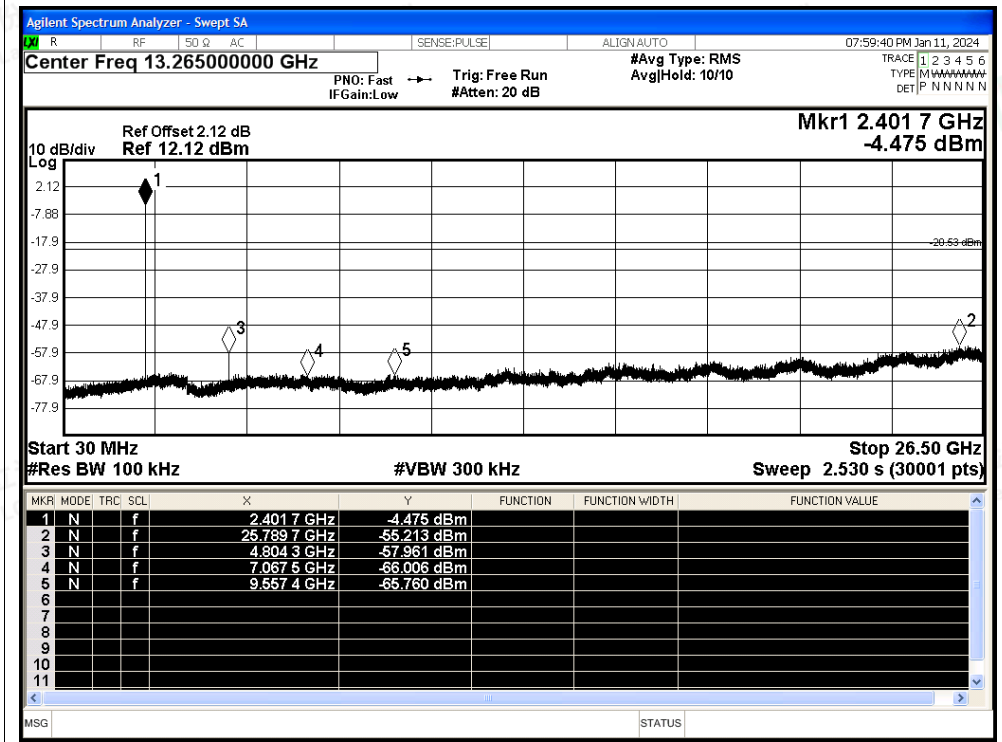
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz Ant Ref

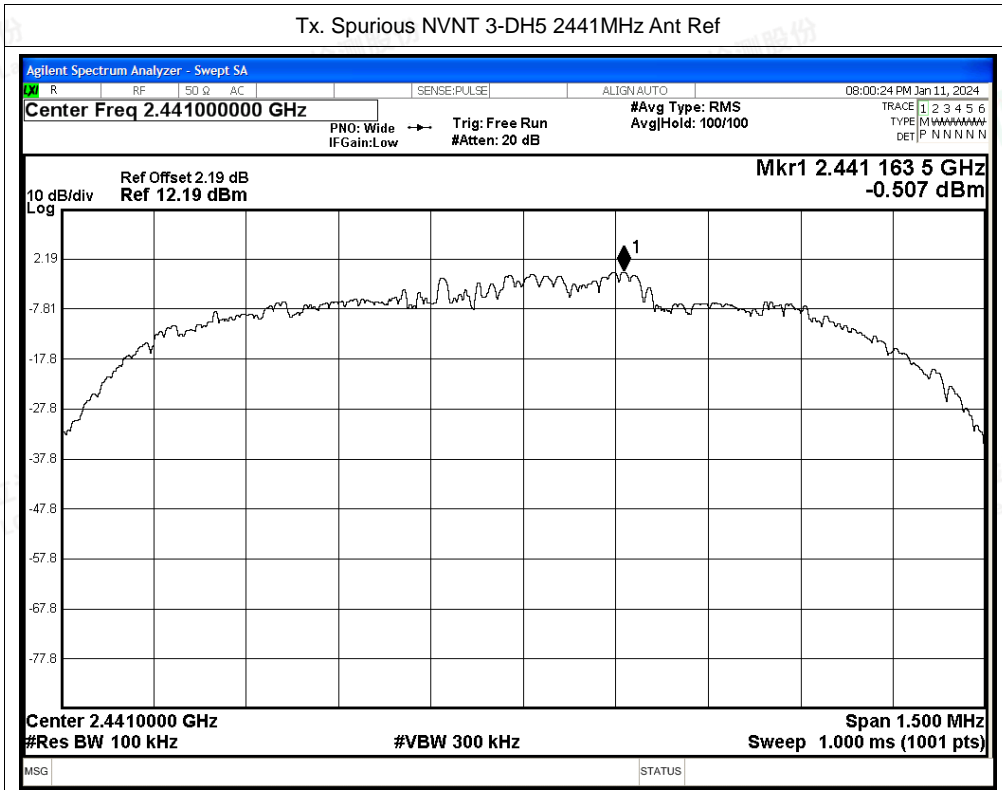


Tx. Spurious NVNT 3-DH5 2402MHz Ant Emission

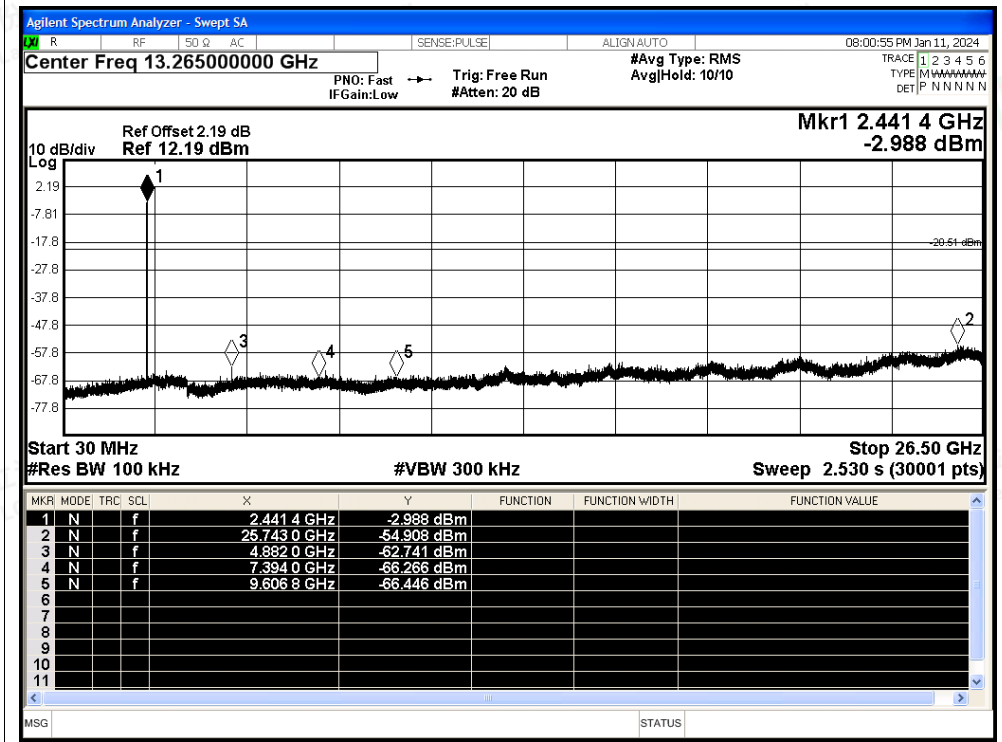




Tx. Spurious NVNT 3-DH5 2441MHz Ant Ref

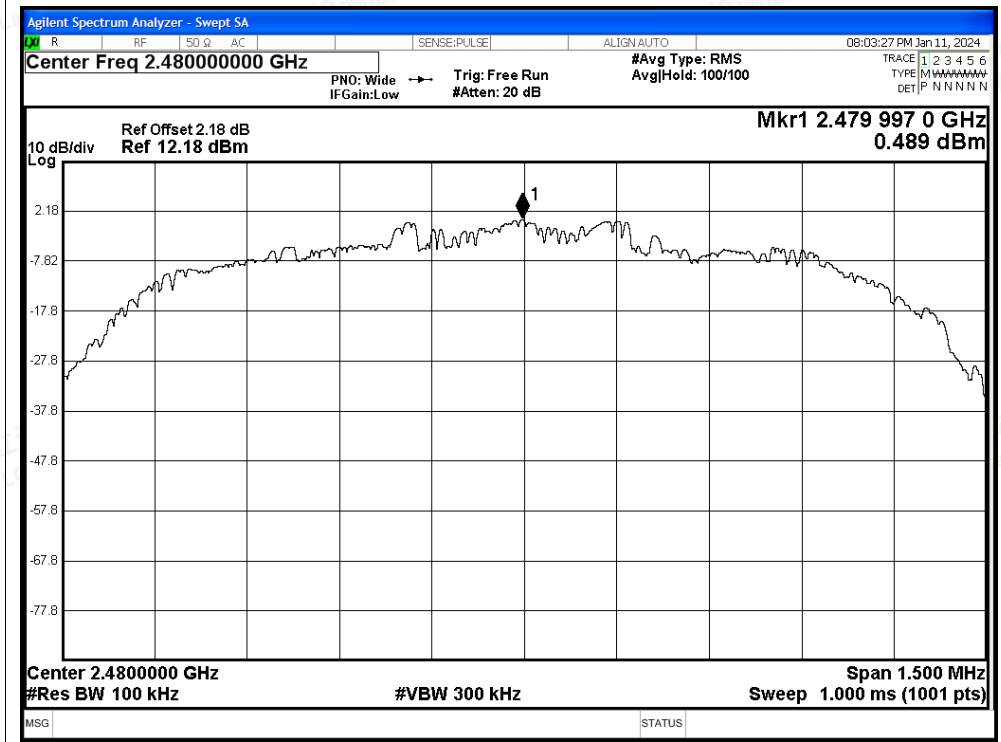


Tx. Spurious NVNT 3-DH5 2441MHz Ant Emission

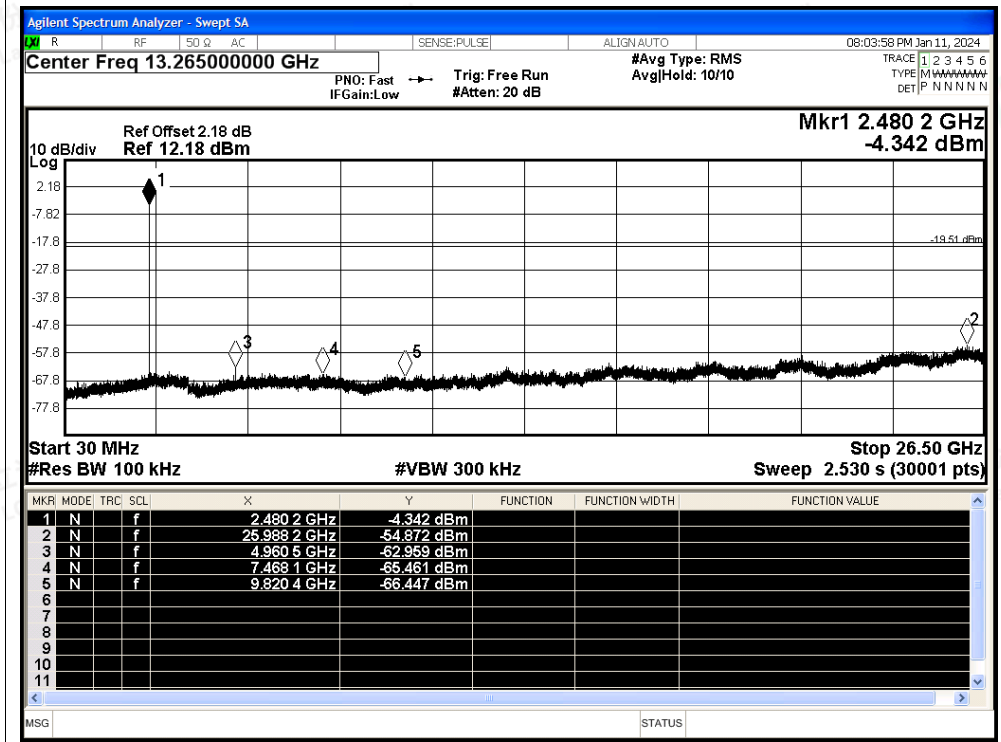




Tx. Spurious NVNT 3-DH5 2480MHz Ant Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant Emission





A.8 Duty Cycle

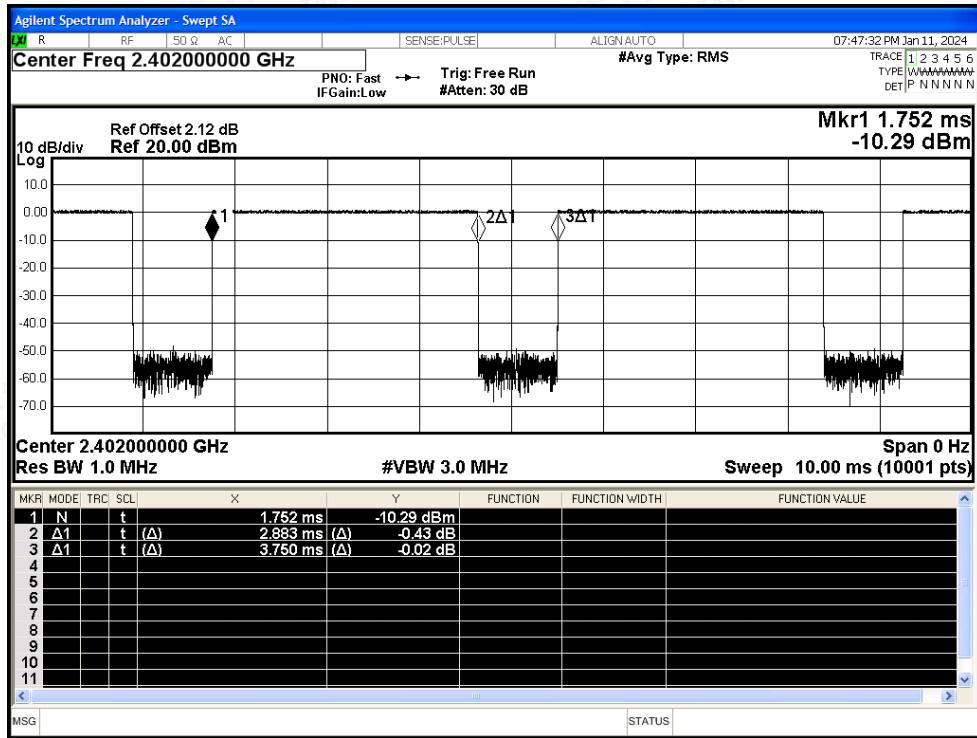
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant	76.88	1.14	0.35
NVNT	1-DH5	2441	Ant	76.88	1.14	0.35
NVNT	1-DH5	2480	Ant	76.91	1.14	0.35
NVNT	2-DH5	2402	Ant	76.99	1.14	0.35
NVNT	2-DH5	2441	Ant	76.96	1.14	0.35
NVNT	2-DH5	2480	Ant	76.99	1.14	0.35
NVNT	3-DH5	2402	Ant	77.04	1.13	0.35
NVNT	3-DH5	2441	Ant	77.01	1.13	0.35
NVNT	3-DH5	2480	Ant	77.01	1.13	0.35



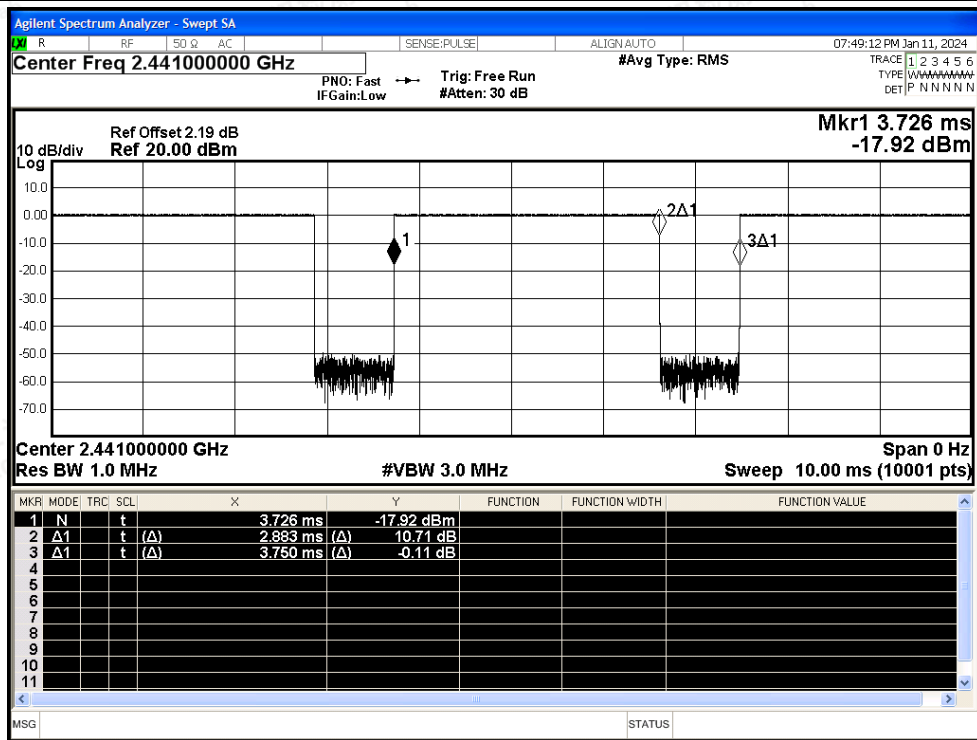


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant

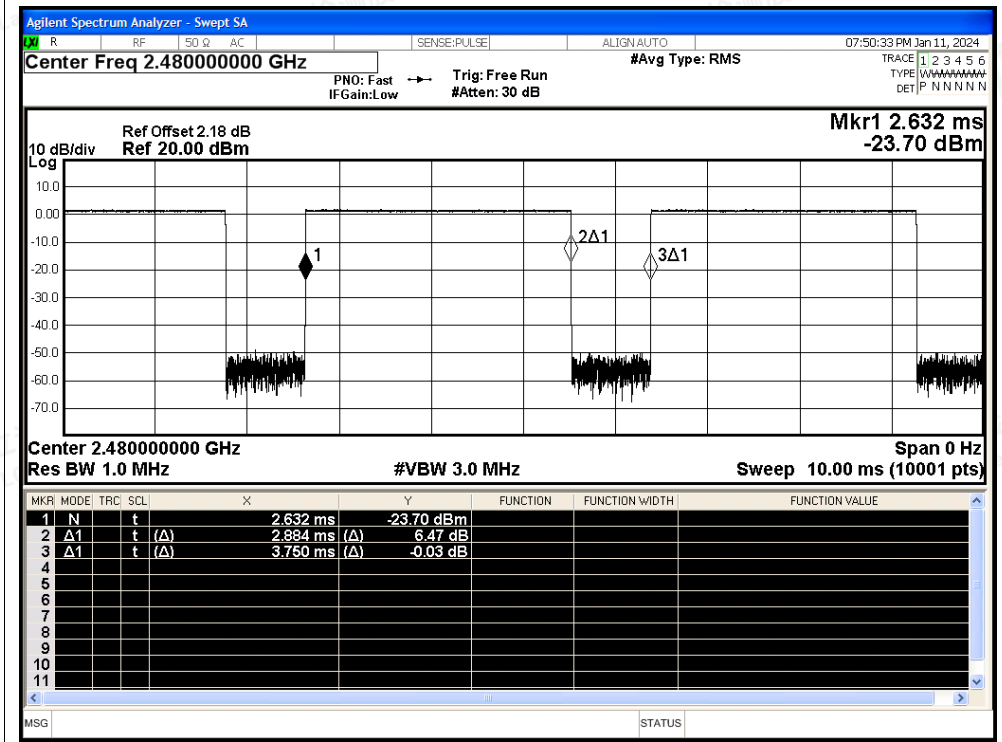


Duty Cycle NVNT 1-DH5 2441MHz Ant

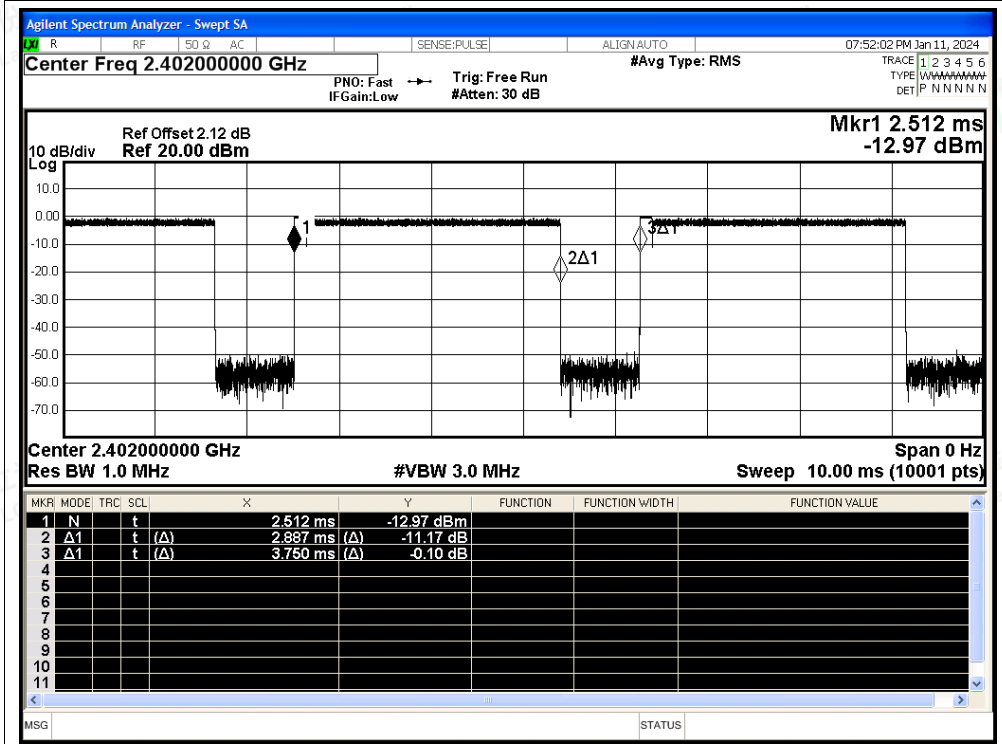




Duty Cycle NVNT 1-DH5 2480MHz Ant

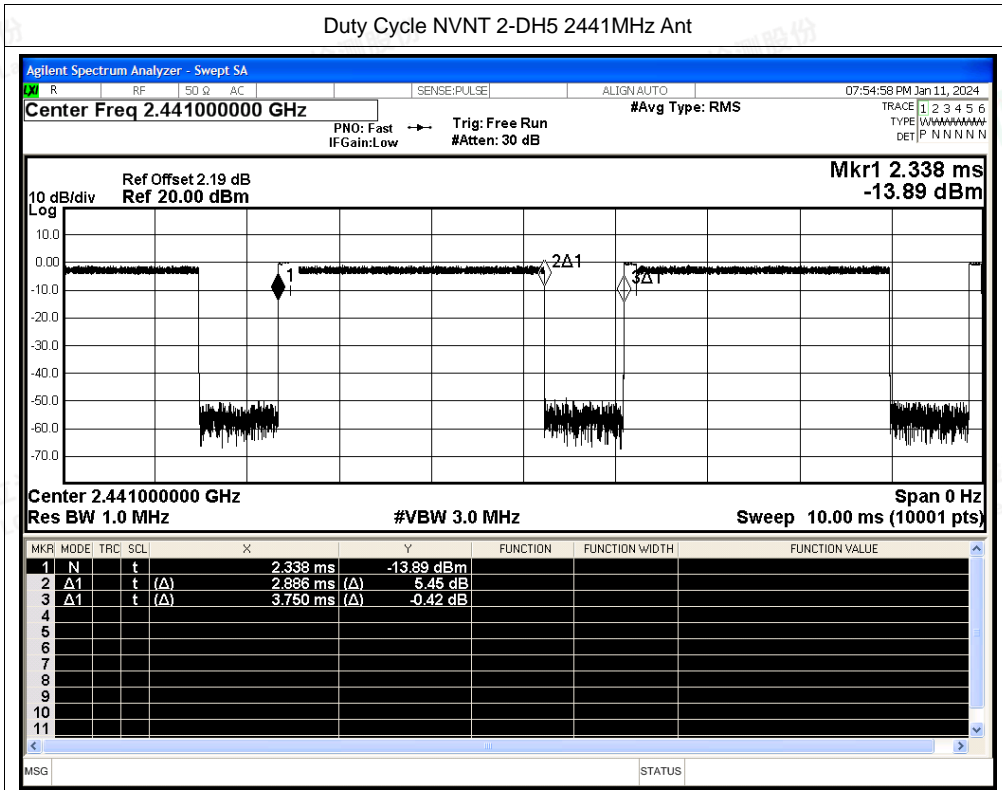


Duty Cycle NVNT 2-DH5 2402MHz Ant

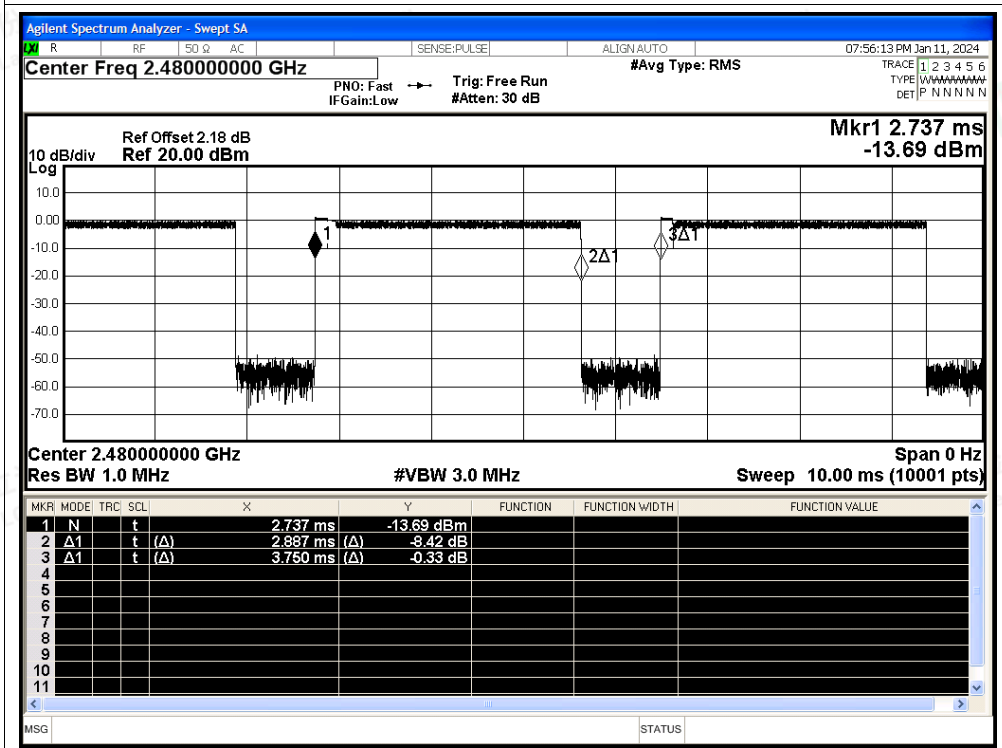




Duty Cycle NVNT 2-DH5 2441MHz Ant

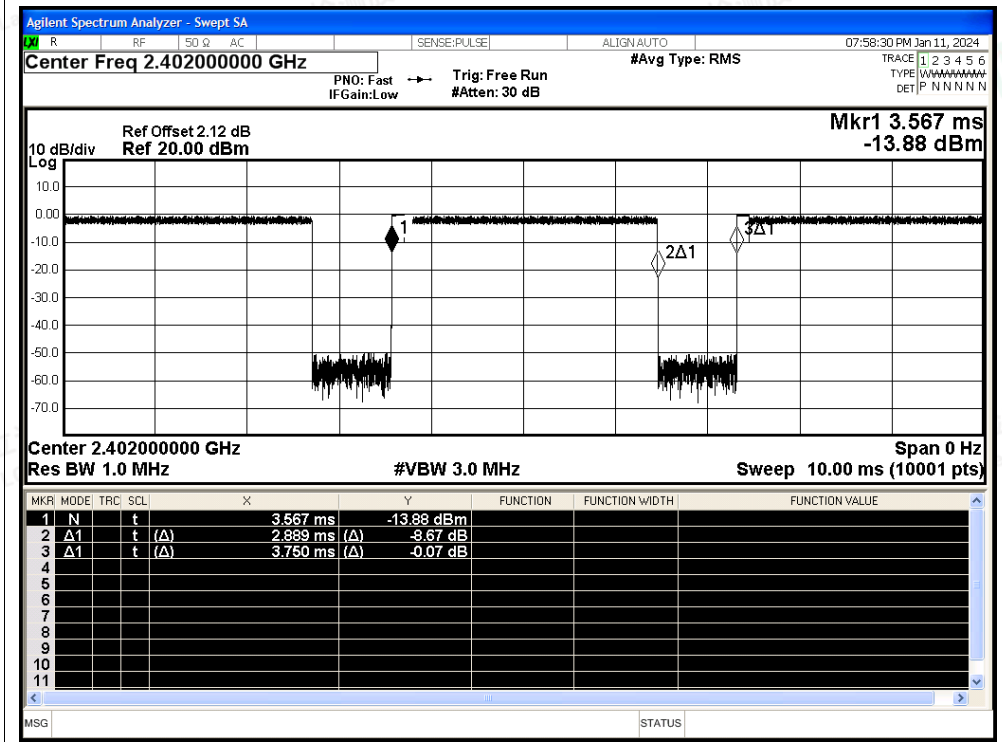


Duty Cycle NVNT 2-DH5 2480MHz Ant

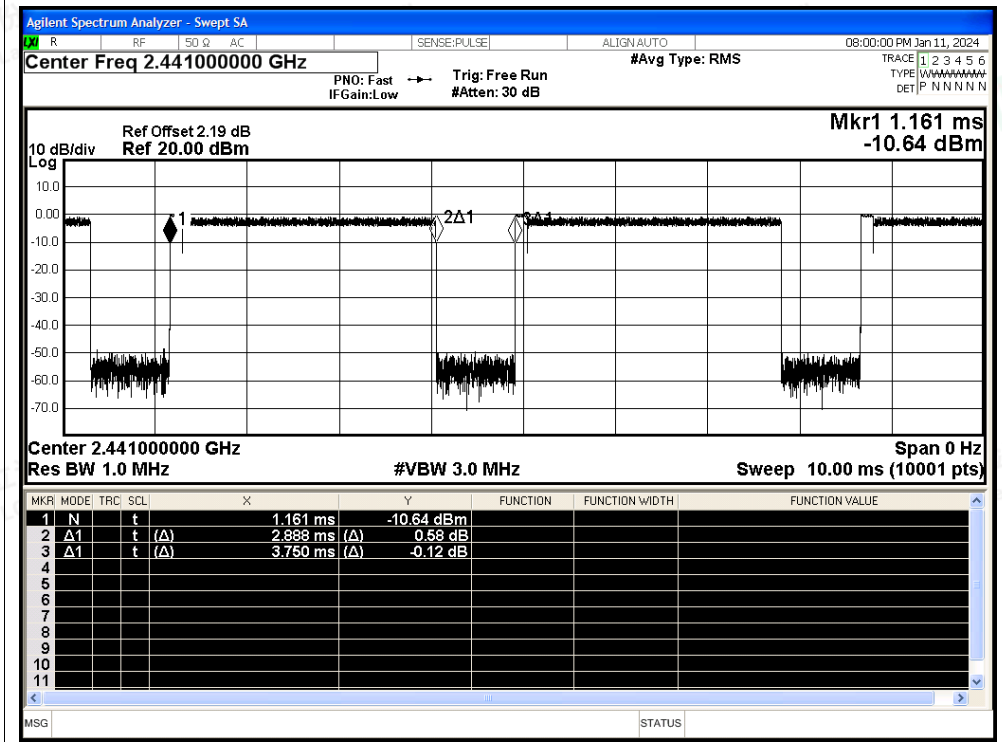


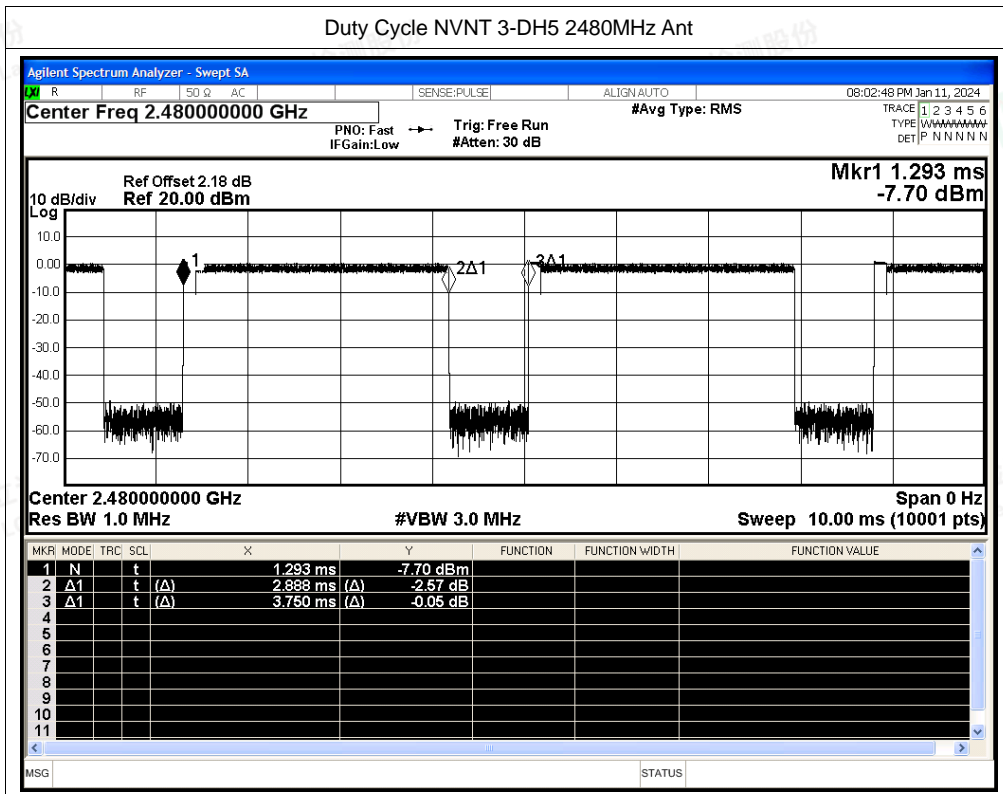


Duty Cycle NVNT 3-DH5 2402MHz Ant



Duty Cycle NVNT 3-DH5 2441MHz Ant







A.9 Restrict Band

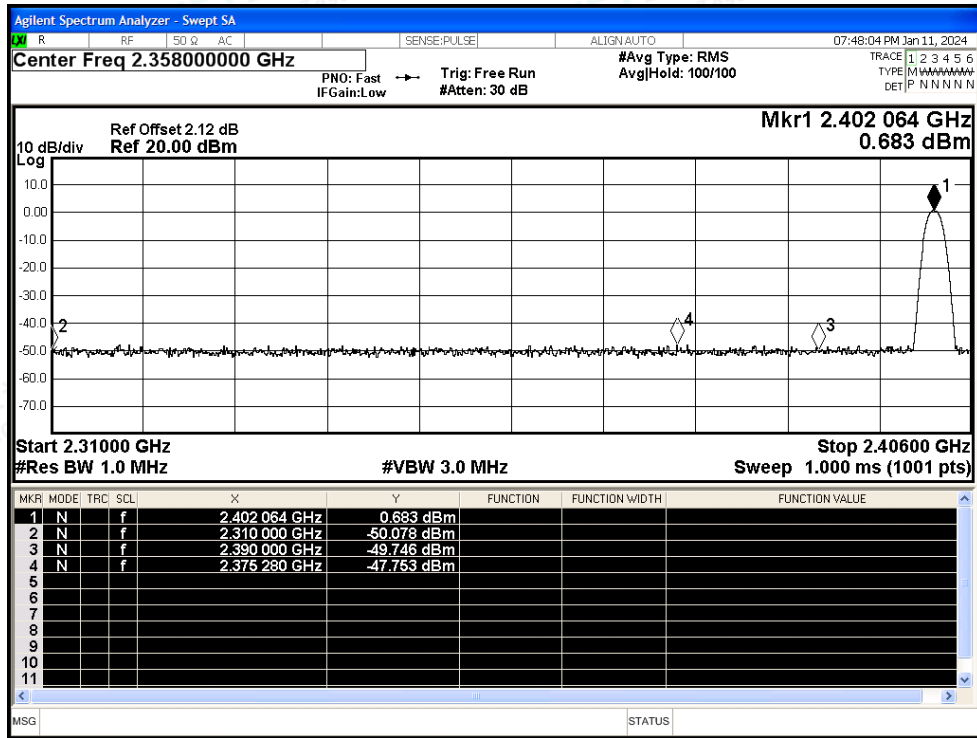
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-50.08	2	-	47.18	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2310	-58.53	2	1.14	39.87	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2375.28	-47.75	2	-	49.51	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2381.904	-57.38	2	1.14	41.02	Average	54	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-49.75	2	-	47.51	Peak	74	Pass
NVNT	1-DH5	2402	Ant	No-Hopping	2390	-58.15	2	1.14	40.25	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-50.18	2	-	47.08	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2483.5	-57.69	2	1.14	40.71	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2497.816	-46.53	2	-	50.73	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2494.312	-57.08	2	1.14	41.32	Average	54	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-50.6	2	-	46.66	Peak	74	Pass
NVNT	1-DH5	2480	Ant	No-Hopping	2500	-57.77	2	1.14	40.63	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-51.56	2	-	45.7	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2310	-58.6	2	1.14	39.8	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2335.152	-47.14	2	-	50.12	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2389.488	-57.61	2	1.14	40.79	Average	54	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-50.82	2	-	46.44	Peak	74	Pass
NVNT	2-DH5	2402	Ant	No-Hopping	2390	-58.18	2	1.14	40.22	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-49.21	2	-	48.05	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2483.5	-57.8	2	1.14	40.6	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2494.096	-46.81	2	-	50.45	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2497.624	-57.09	2	1.14	41.31	Average	54	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-49.37	2	-	47.89	Peak	74	Pass
NVNT	2-DH5	2480	Ant	No-Hopping	2500	-58.12	2	1.14	40.28	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-50.58	2	-	46.68	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2310	-58.49	2	1.13	39.9	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2372.304	-47.48	2	-	49.78	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2386.224	-57.5	2	1.13	40.89	Average	54	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-50.21	2	-	47.05	Peak	74	Pass
NVNT	3-DH5	2402	Ant	No-Hopping	2390	-58.02	2	1.13	40.37	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-50.41	2	-	46.85	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.5	-57.72	2	1.13	40.67	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2485.288	-46.98	2	-	50.28	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2483.944	-57.11	2	1.13	41.28	Average	54	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-50.53	2	-	46.73	Peak	74	Pass
NVNT	3-DH5	2480	Ant	No-Hopping	2500	-57.9	2	1.13	40.49	Average	54	Pass



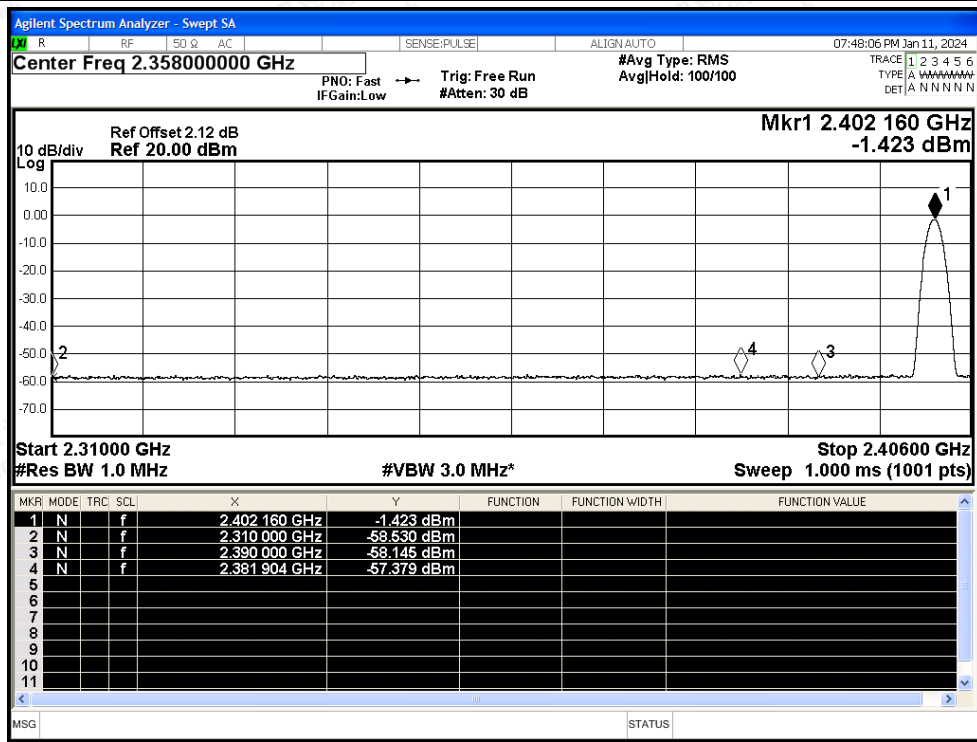


Test Graphs

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

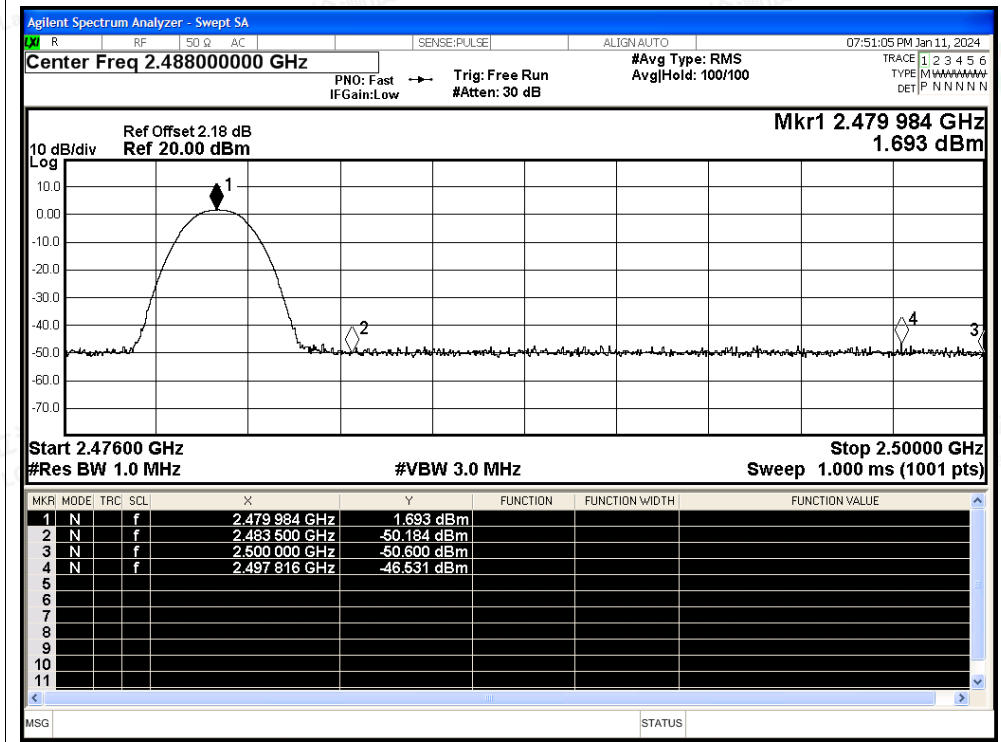


Restrict Band NVNT 1-DH5 2402MHz Ant No-Hopping Average

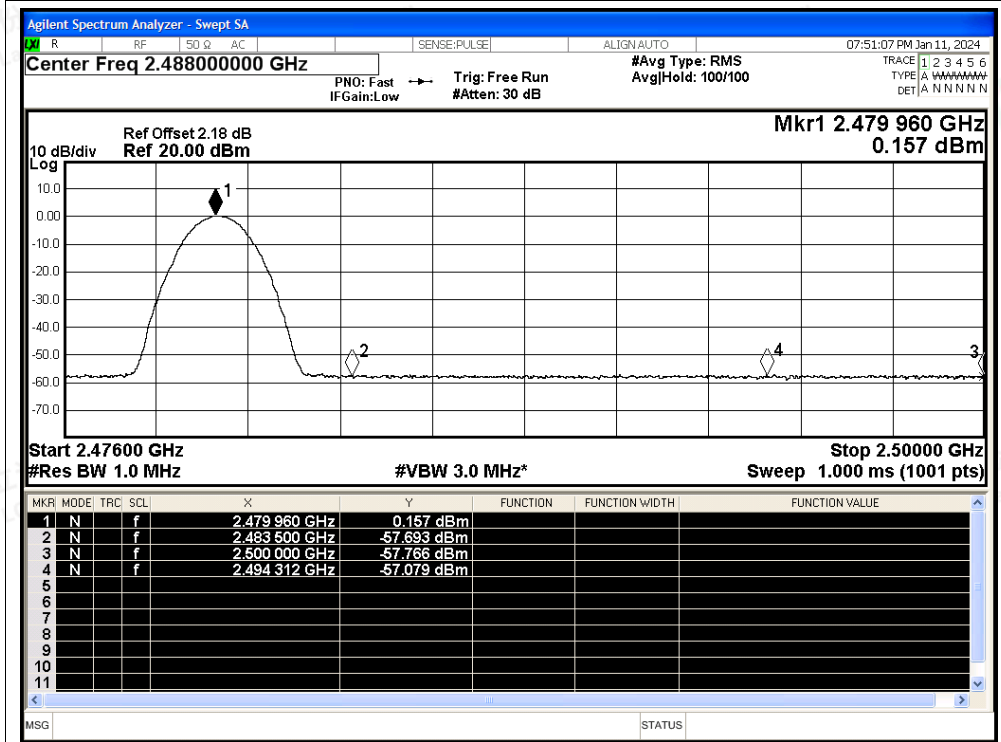




Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Peak

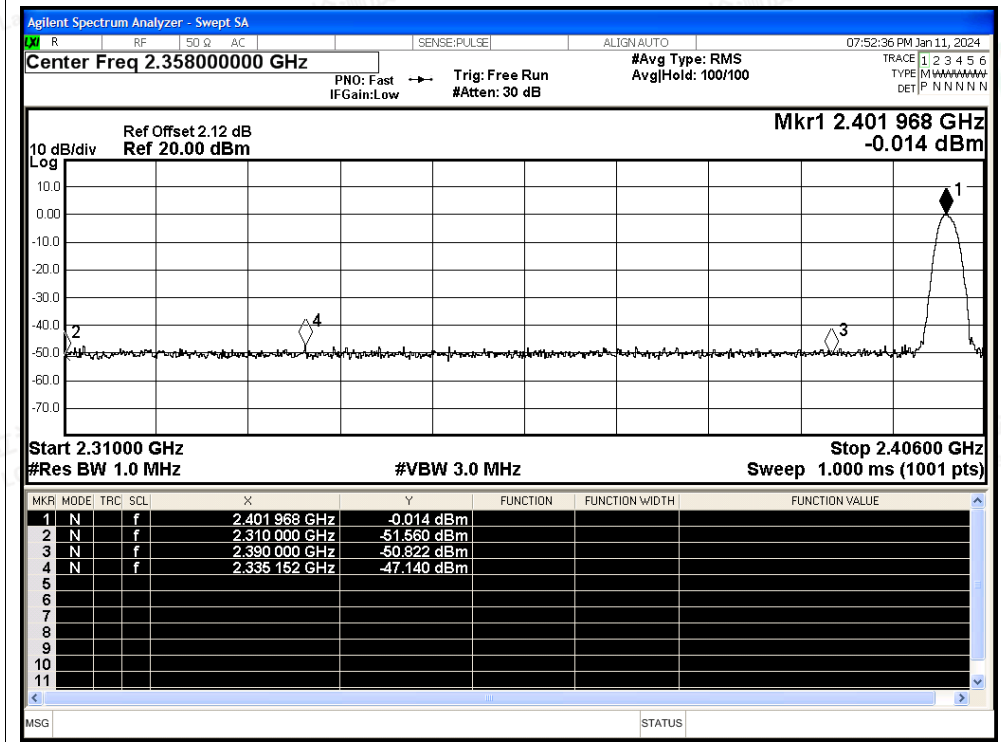


Restrict Band NVNT 1-DH5 2480MHz Ant No-Hopping Average

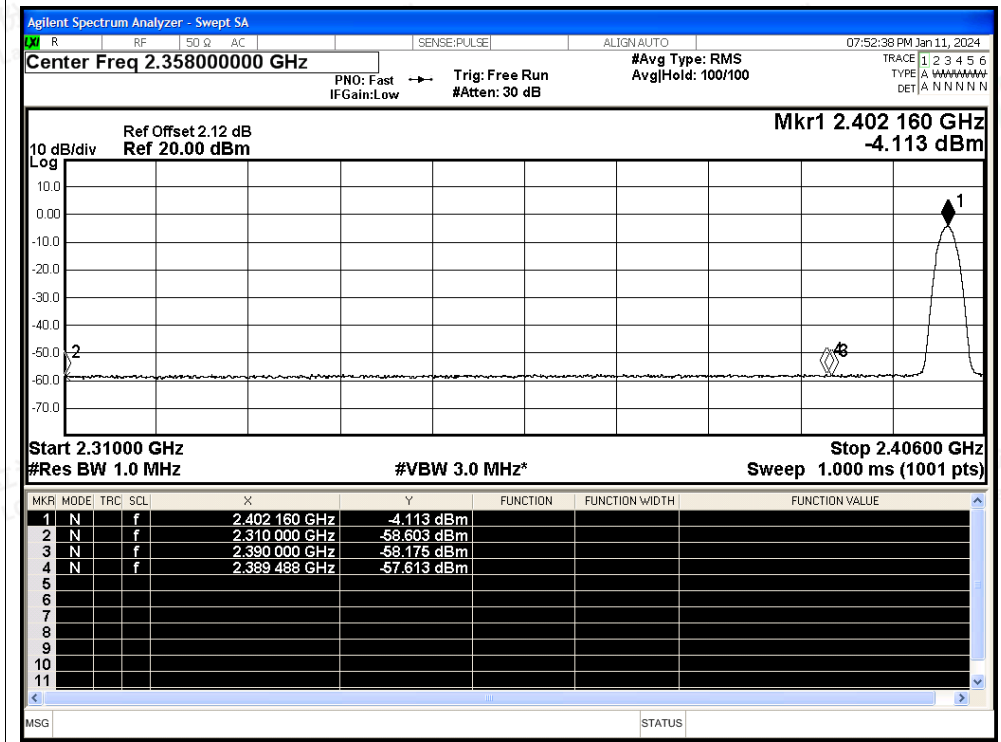




Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Peak

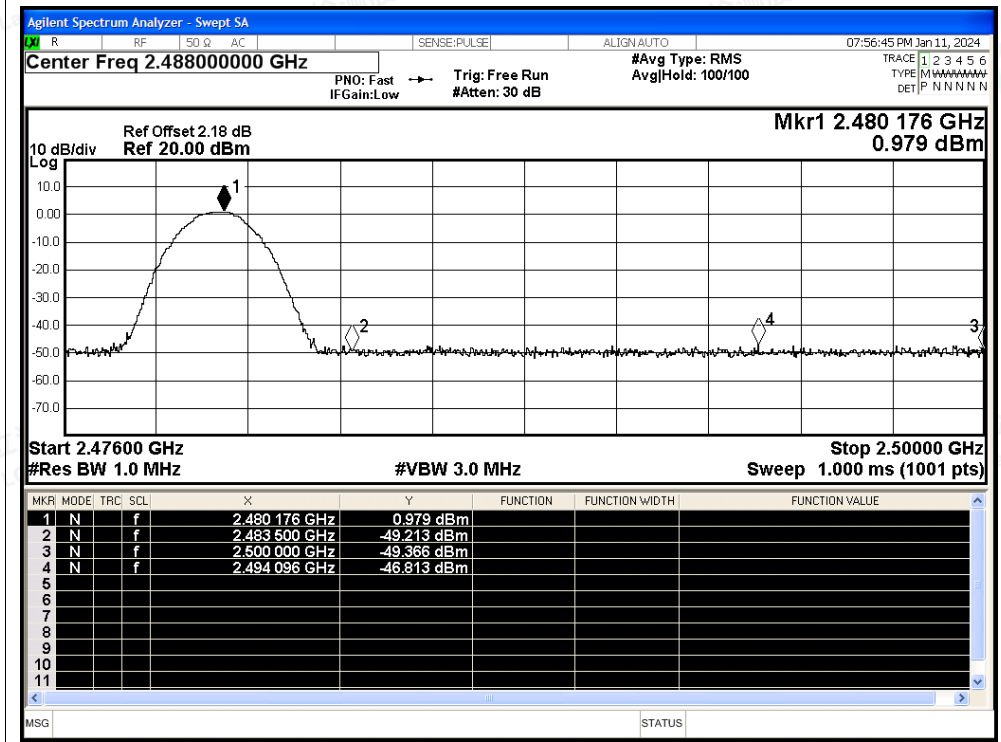


Restrict Band NVNT 2-DH5 2402MHz Ant No-Hopping Average

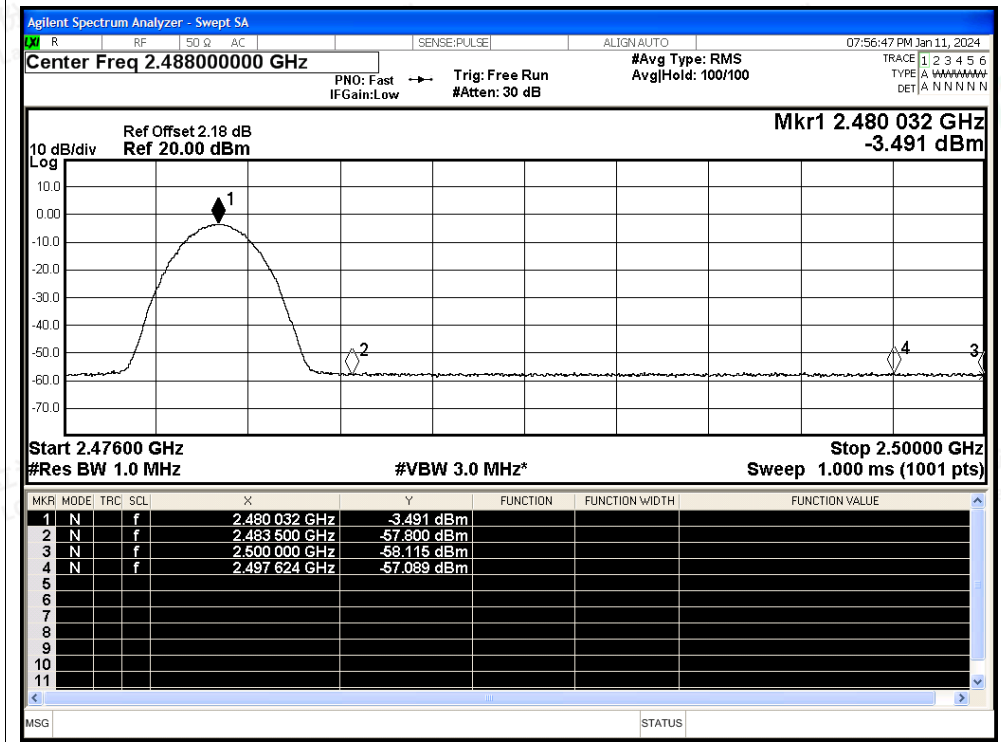




Restrict Band NVNT 2-DH5 2480MHz Ant No-Hopping Peak

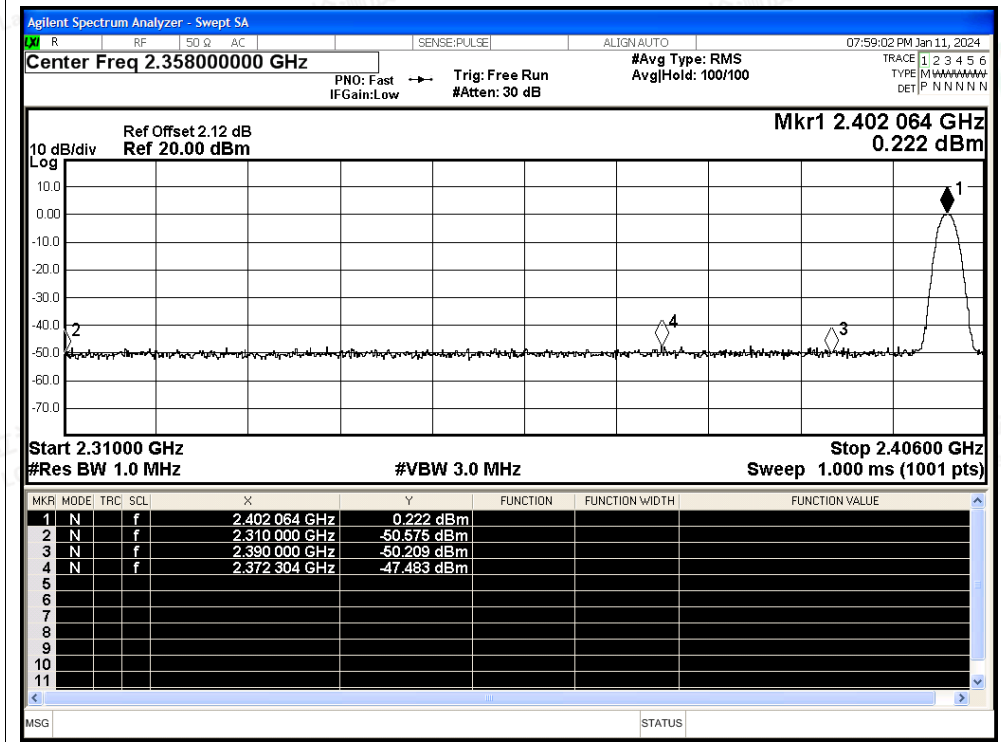


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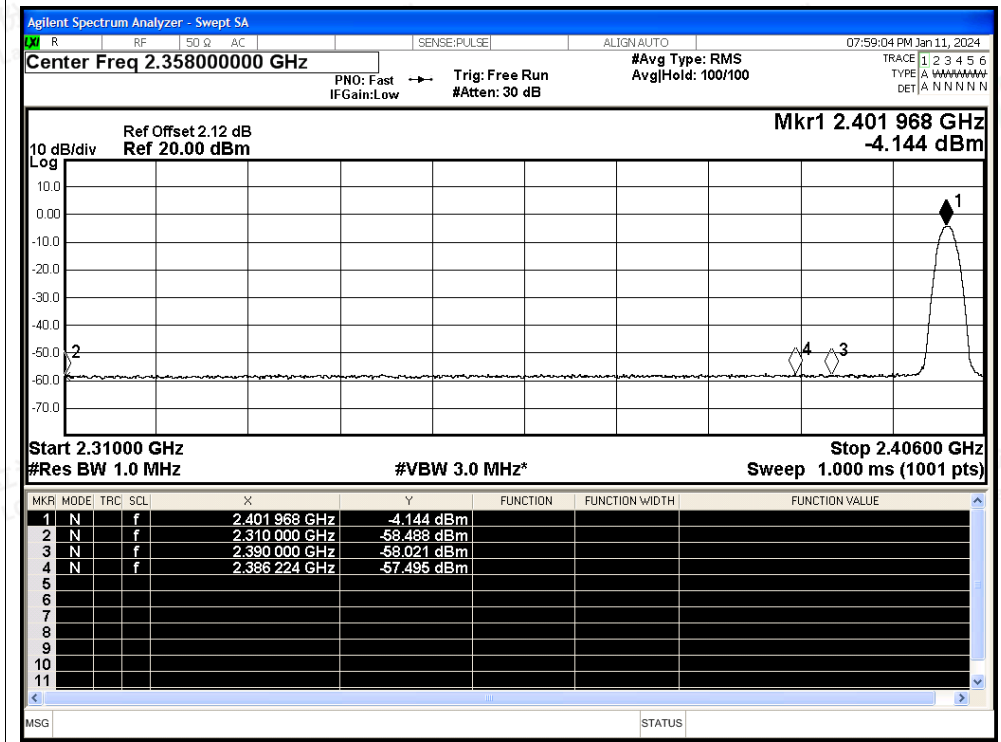




Restrict Band NVNT 3-DH5 2402MHz Ant No-Hopping Peak



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



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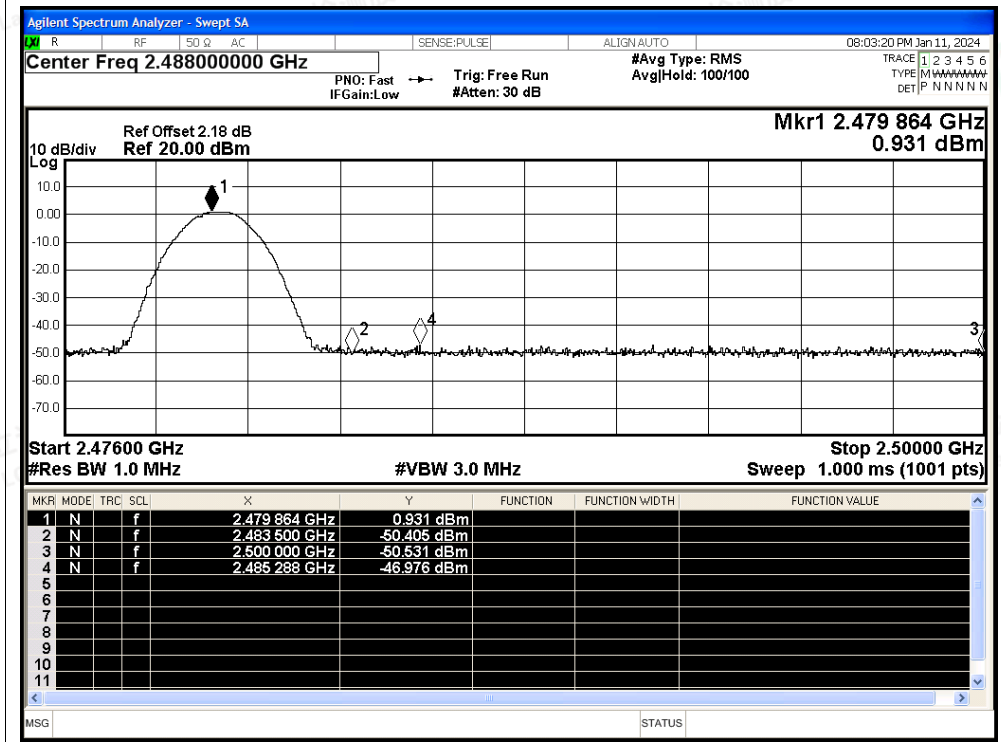
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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



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

