



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smartphone

Test Model: Smooth 5

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	1.029	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.004	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.037	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.318	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.313	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.323	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.303	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.306	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.309	N/A	Pass



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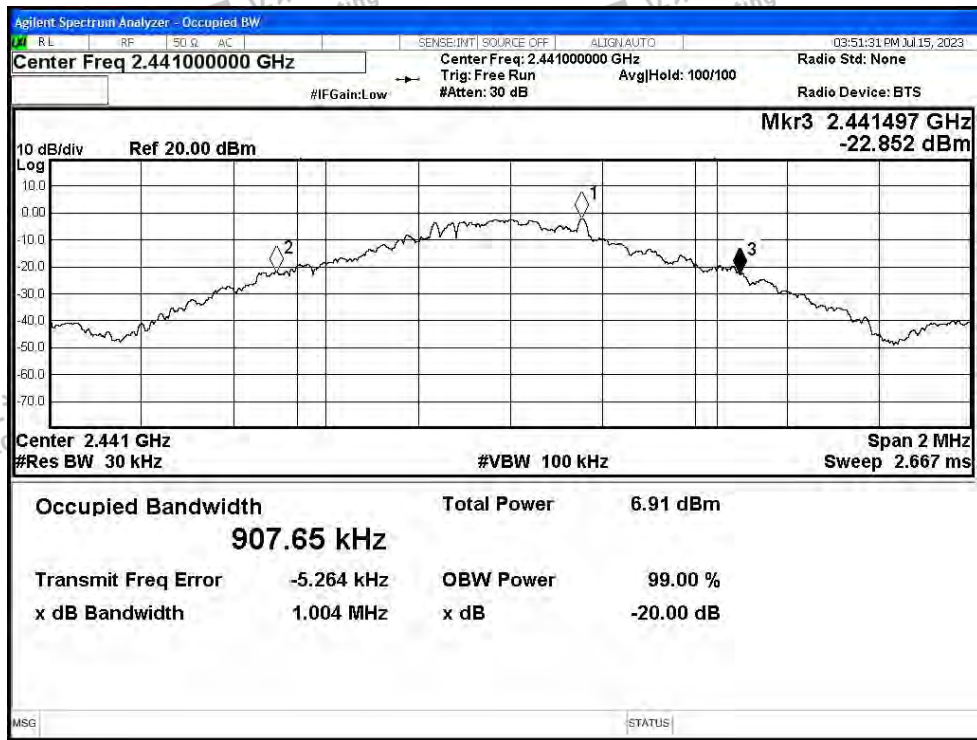


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

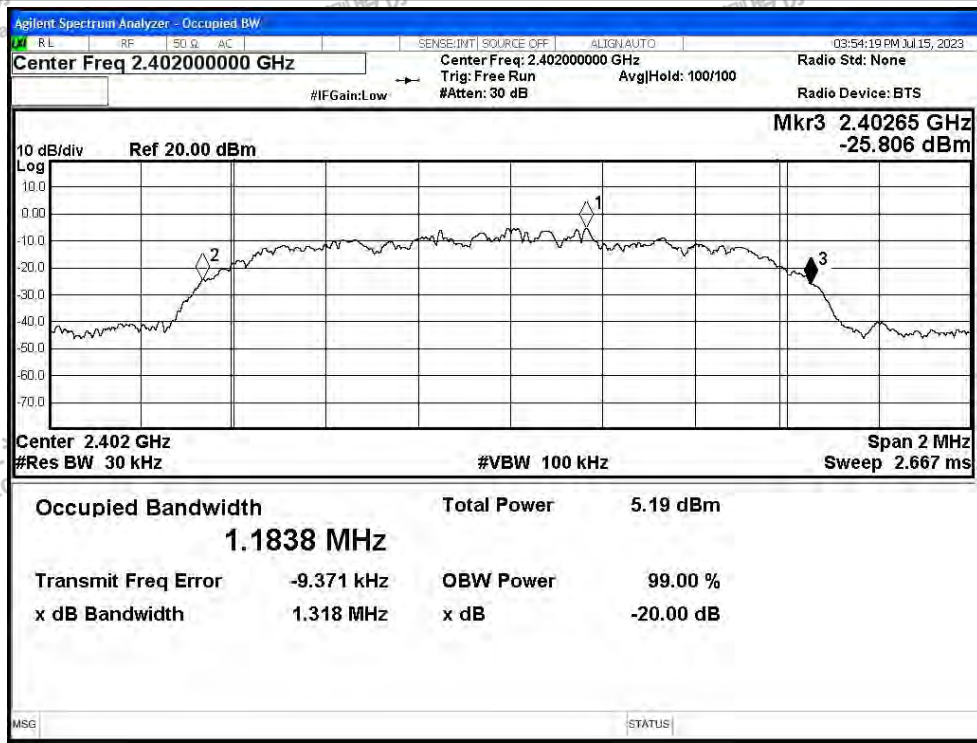




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

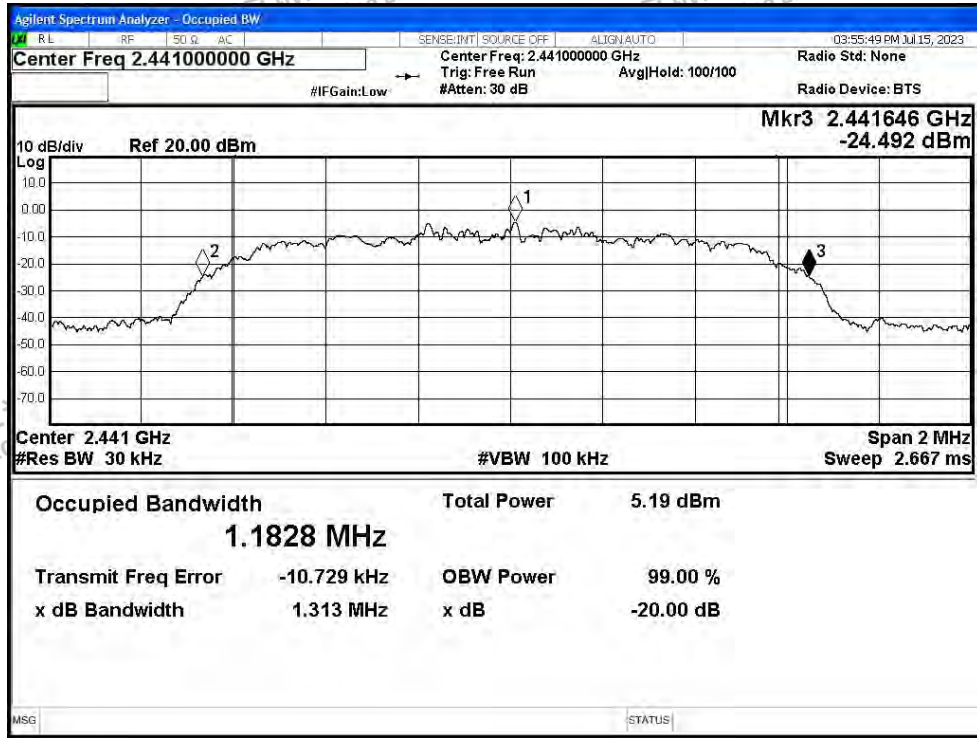


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

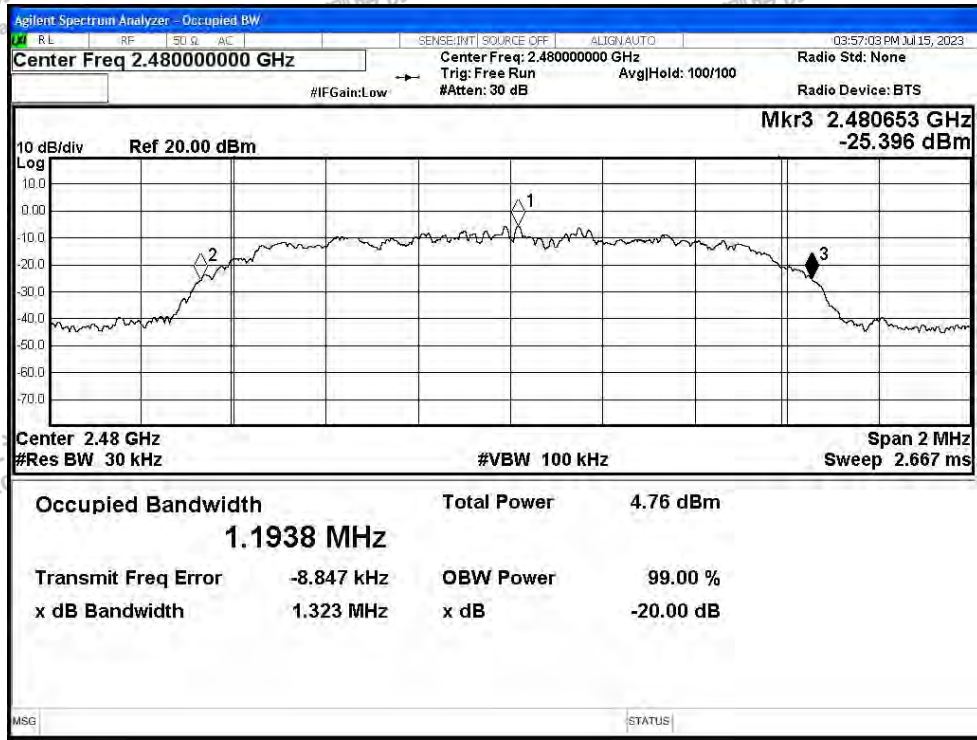




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

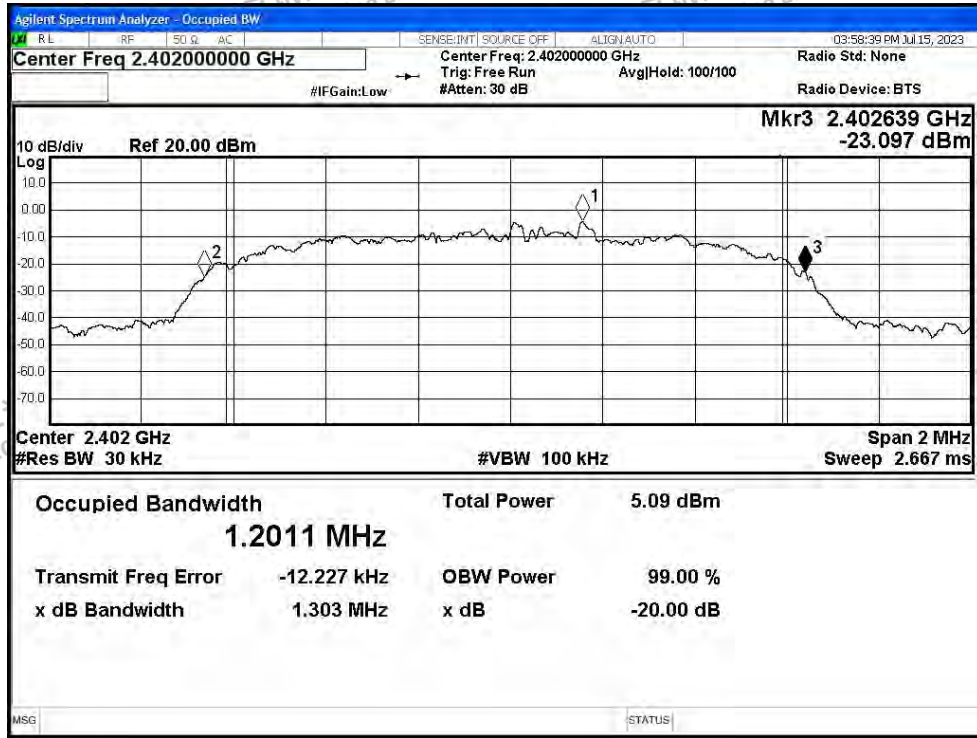


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

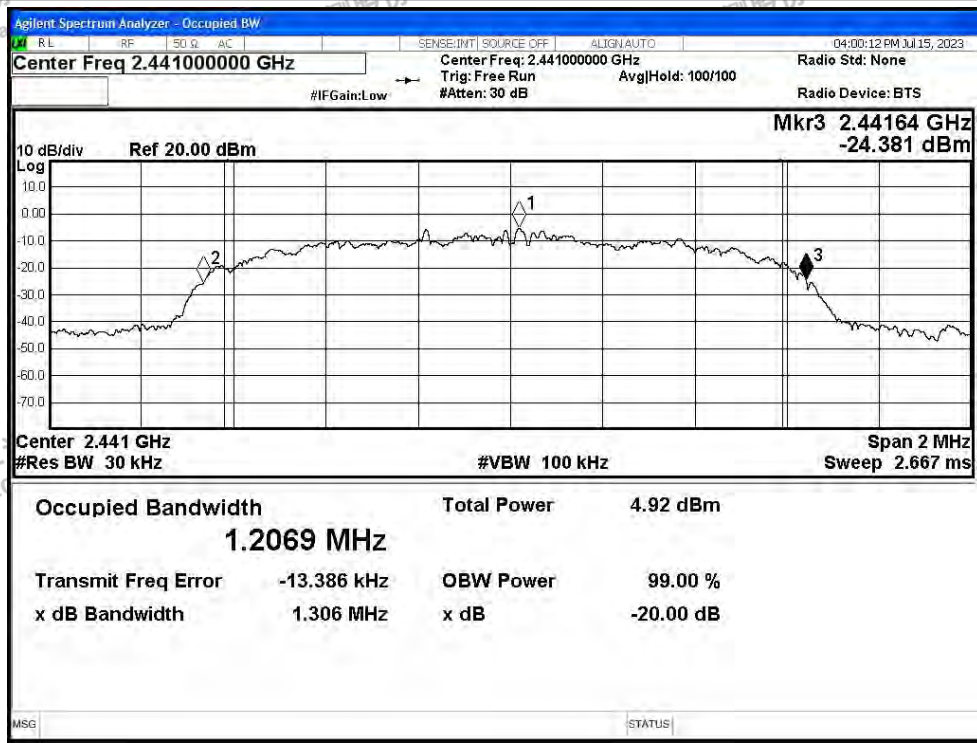




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

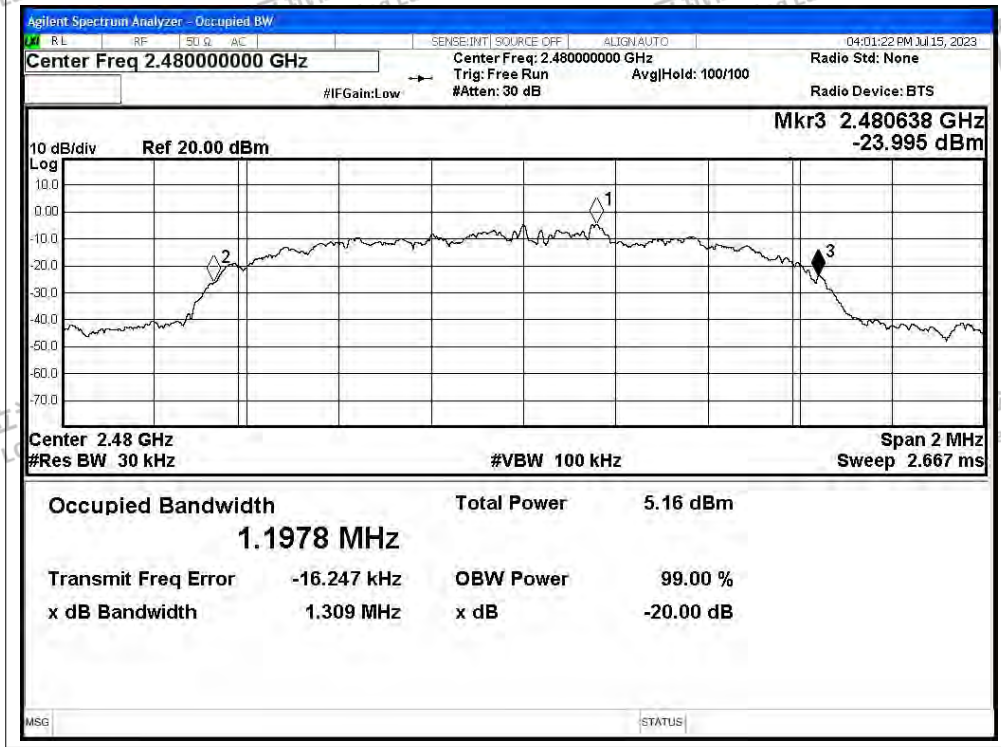


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.70	21	Pass
NVNT	1-DH5	2441	Ant1	0.73	21	Pass
NVNT	1-DH5	2480	Ant1	0.67	21	Pass
NVNT	2-DH5	2402	Ant1	0.48	21	Pass
NVNT	2-DH5	2441	Ant1	0.55	21	Pass
NVNT	2-DH5	2480	Ant1	0.45	21	Pass
NVNT	3-DH5	2402	Ant1	0.41	21	Pass
NVNT	3-DH5	2441	Ant1	0.48	21	Pass
NVNT	3-DH5	2480	Ant1	0.35	21	Pass

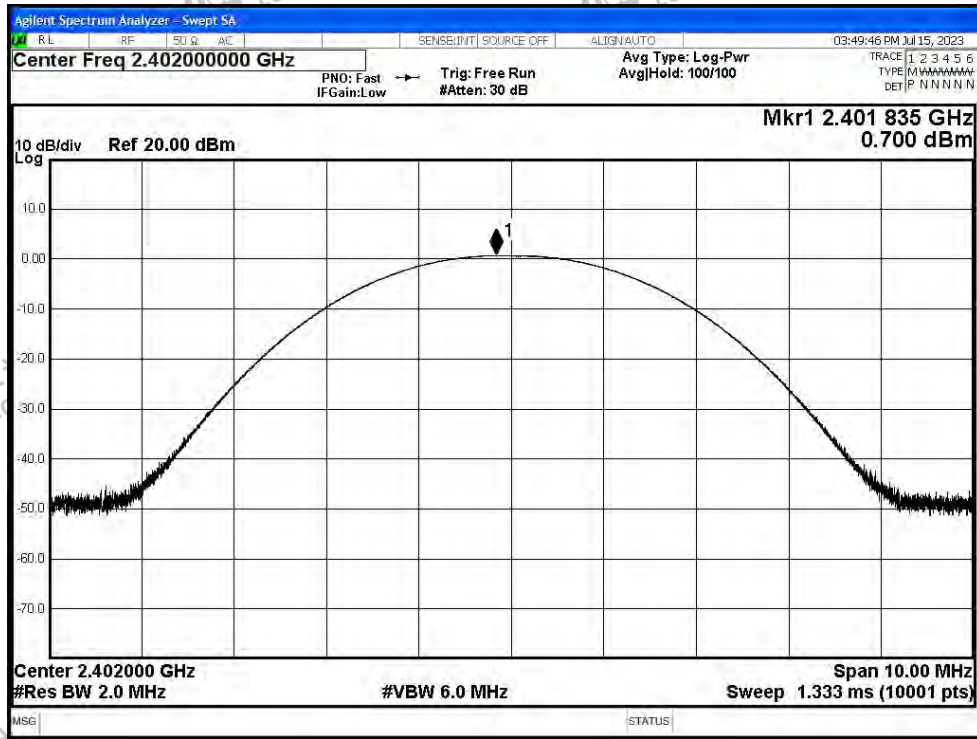


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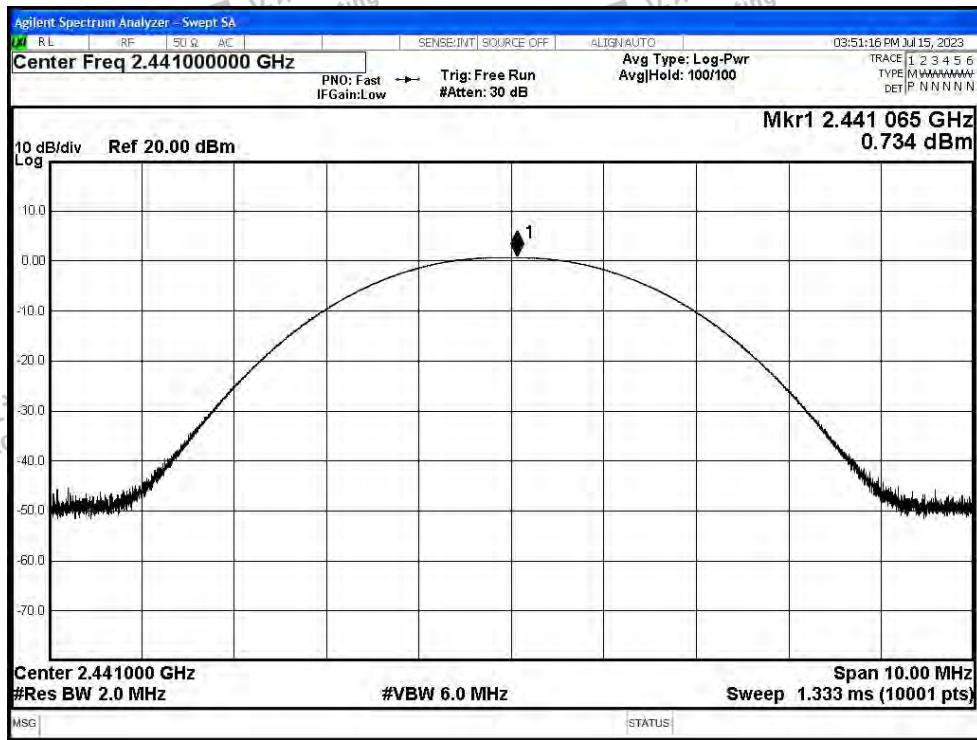


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

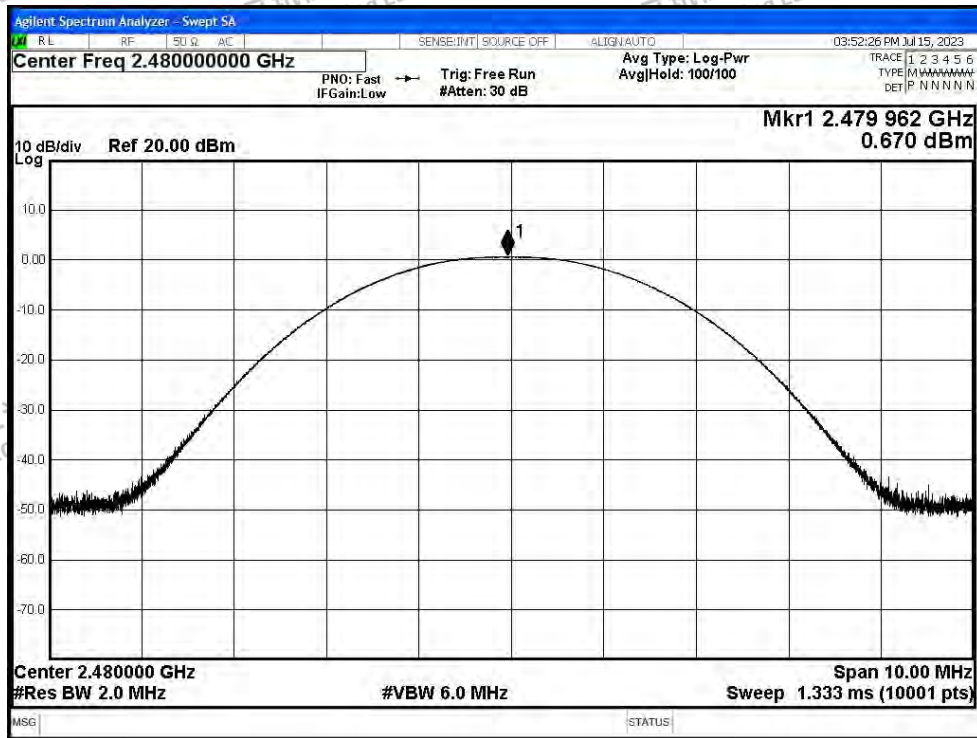


Power NVNT 1-DH5 2441MHz Ant1

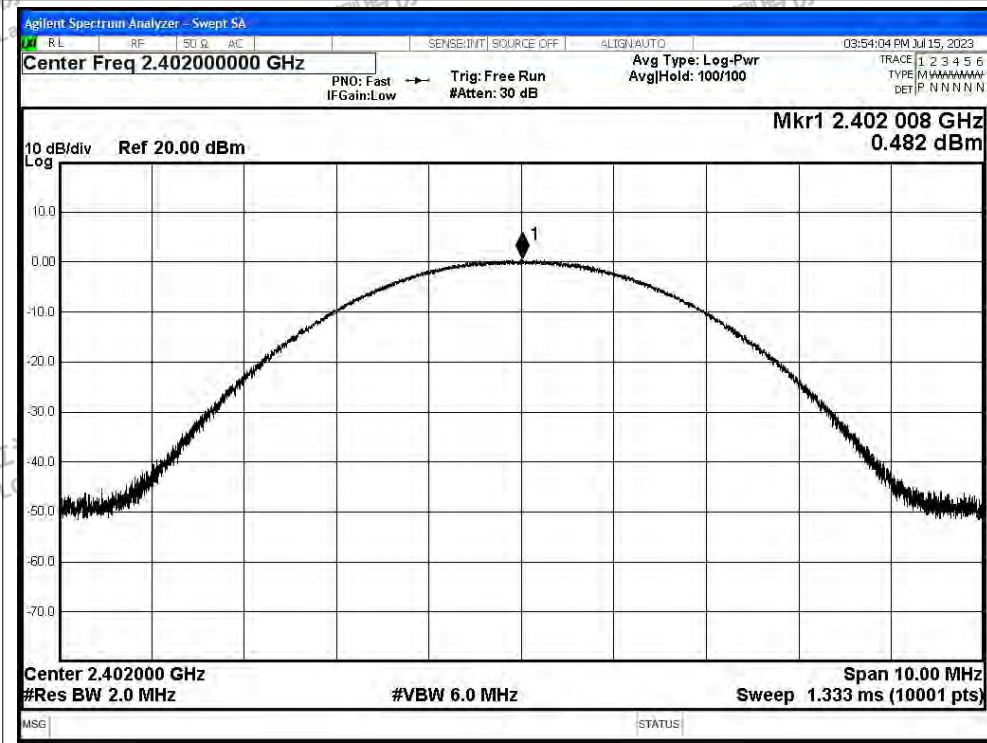




Power NVNT 1-DH5 2480MHz Ant1

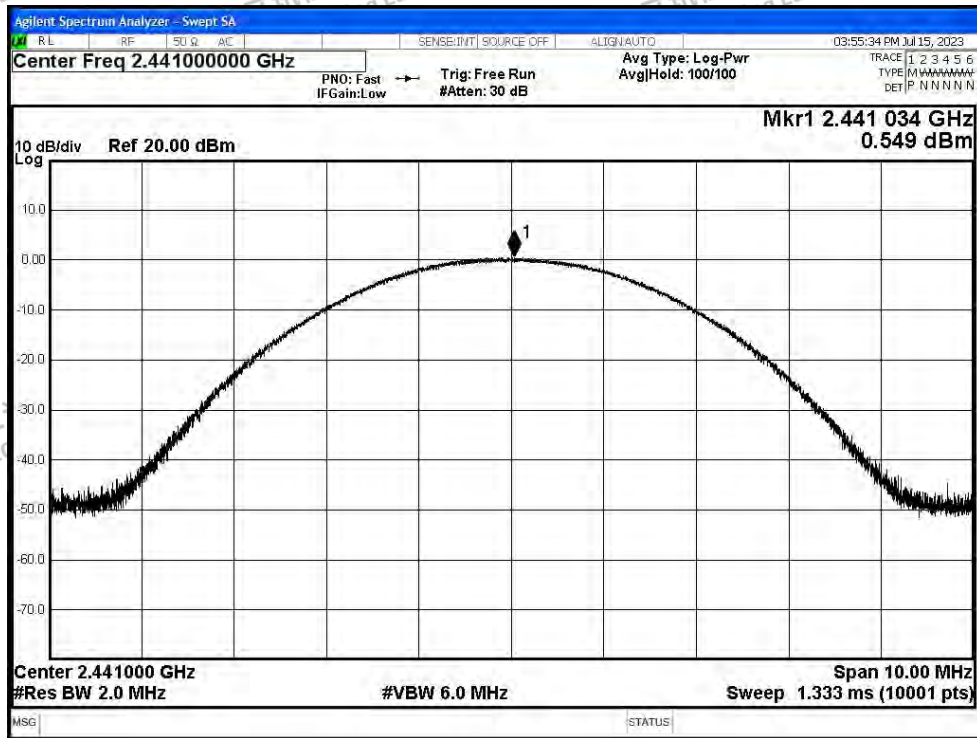


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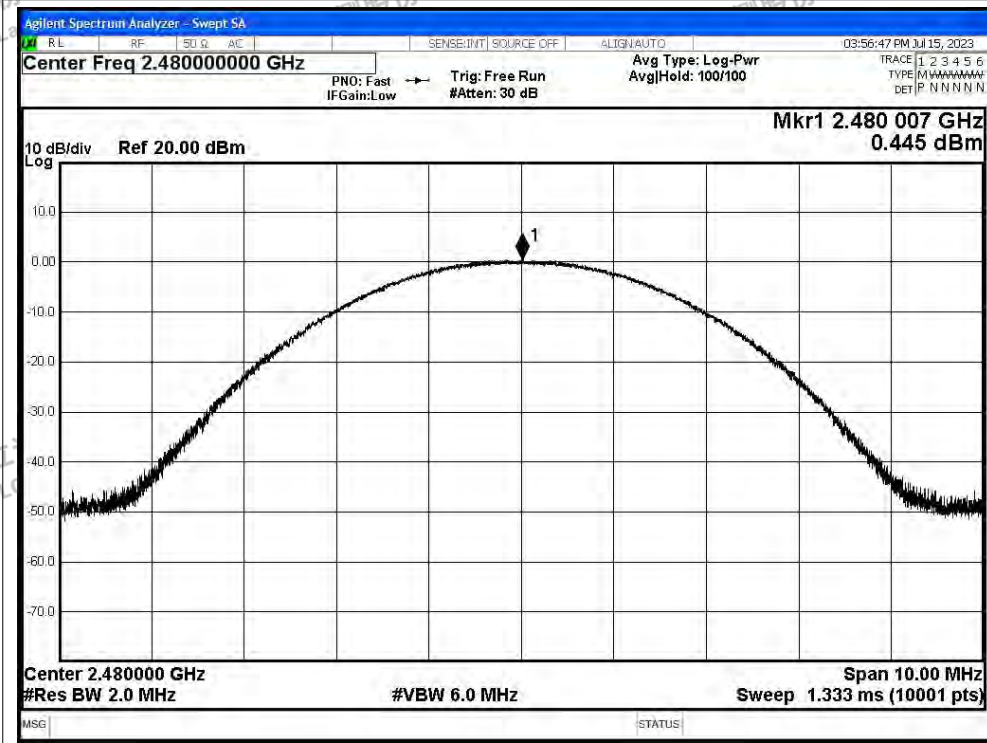




Power NVNT 2-DH5 2441MHz Ant1

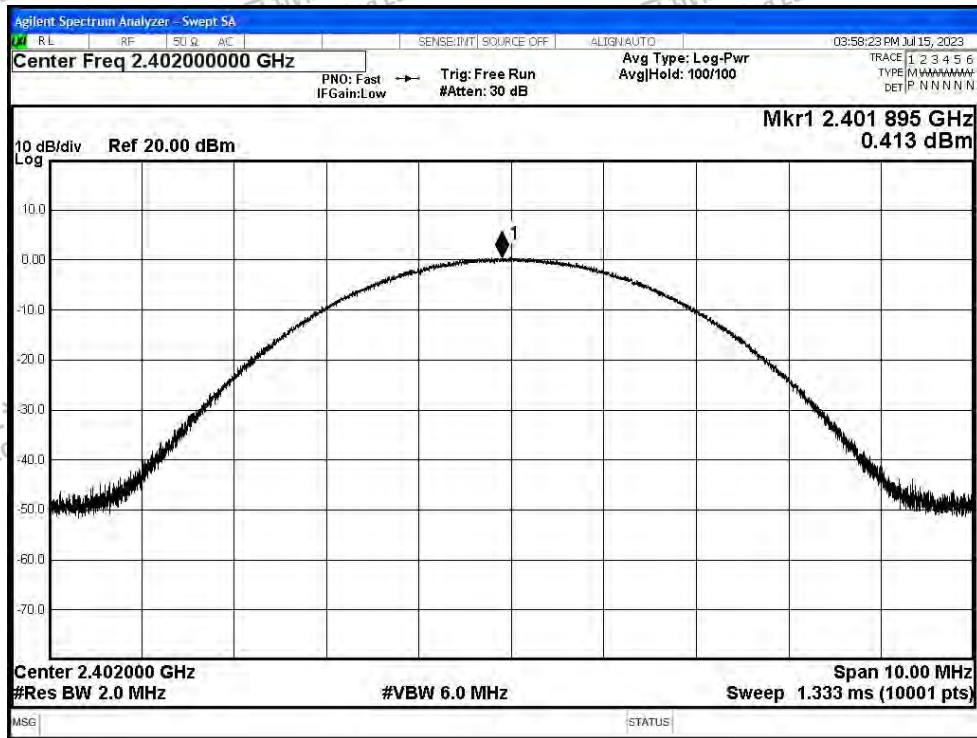


Power NVNT 2-DH5 2480MHz Ant1

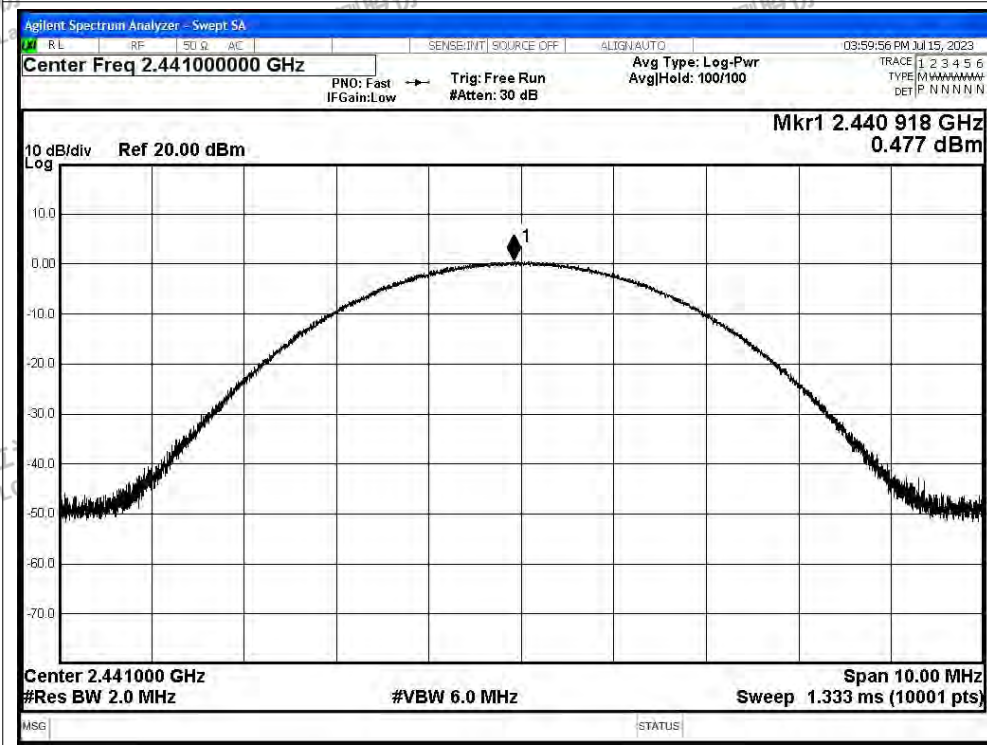




Power NVNT 3-DH5 2402MHz Ant1

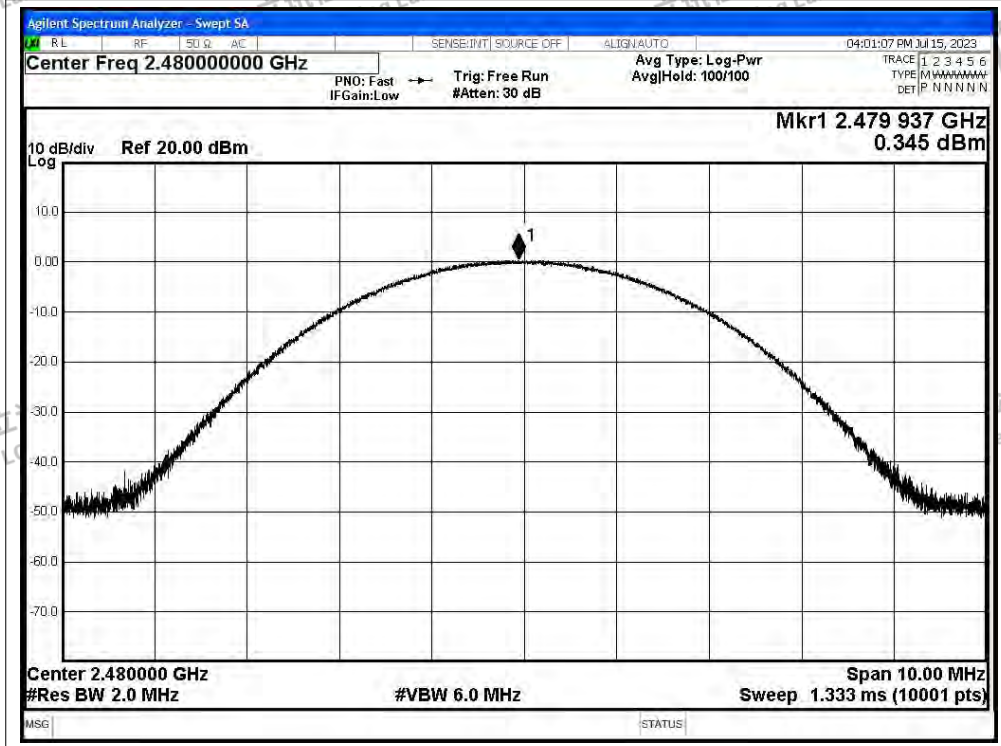


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1



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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.98	2403.008	1.028	0.691	Pass
NVNT	2-DH5	Ant1	2402.02	2403.154	1.134	0.882	Pass
NVNT	3-DH5	Ant1	2402.142	2403.098	0.956	0.873	Pass

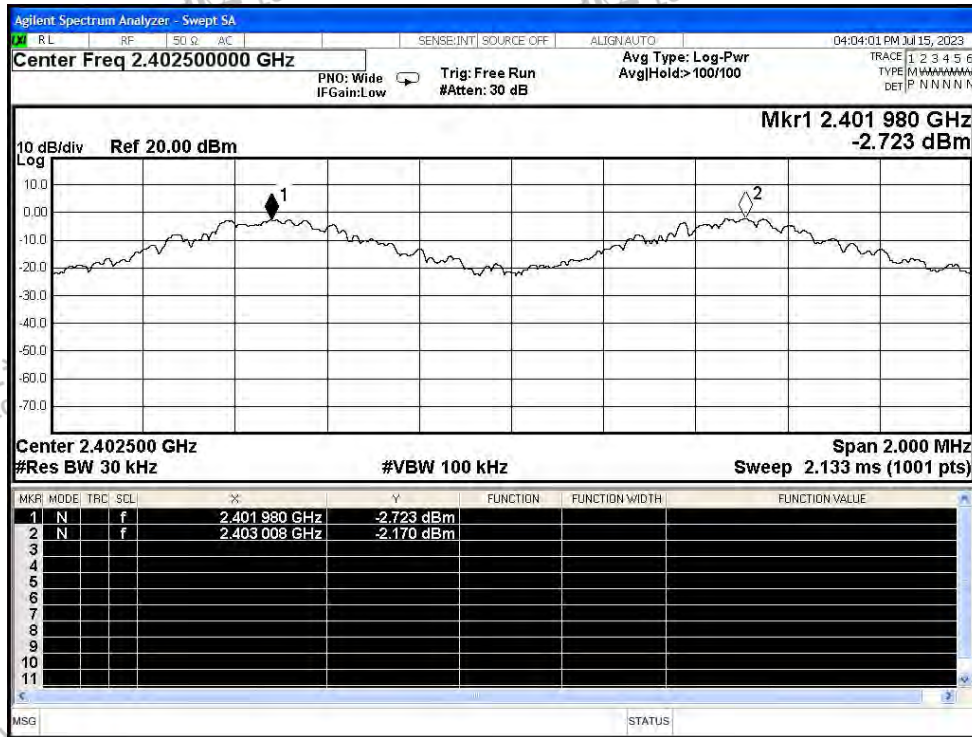


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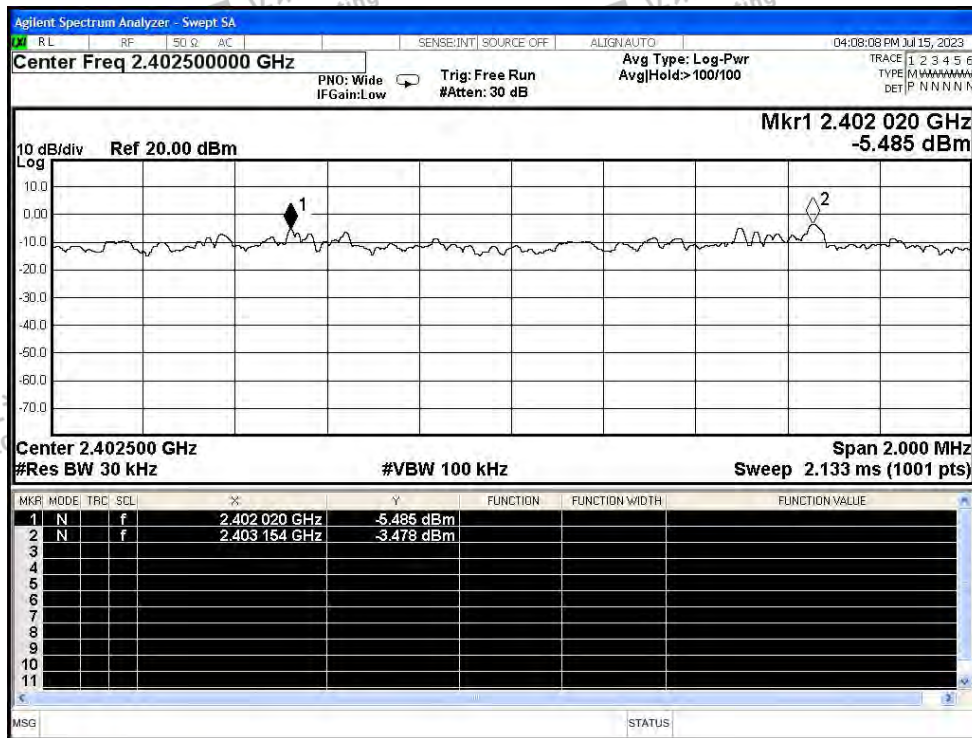


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

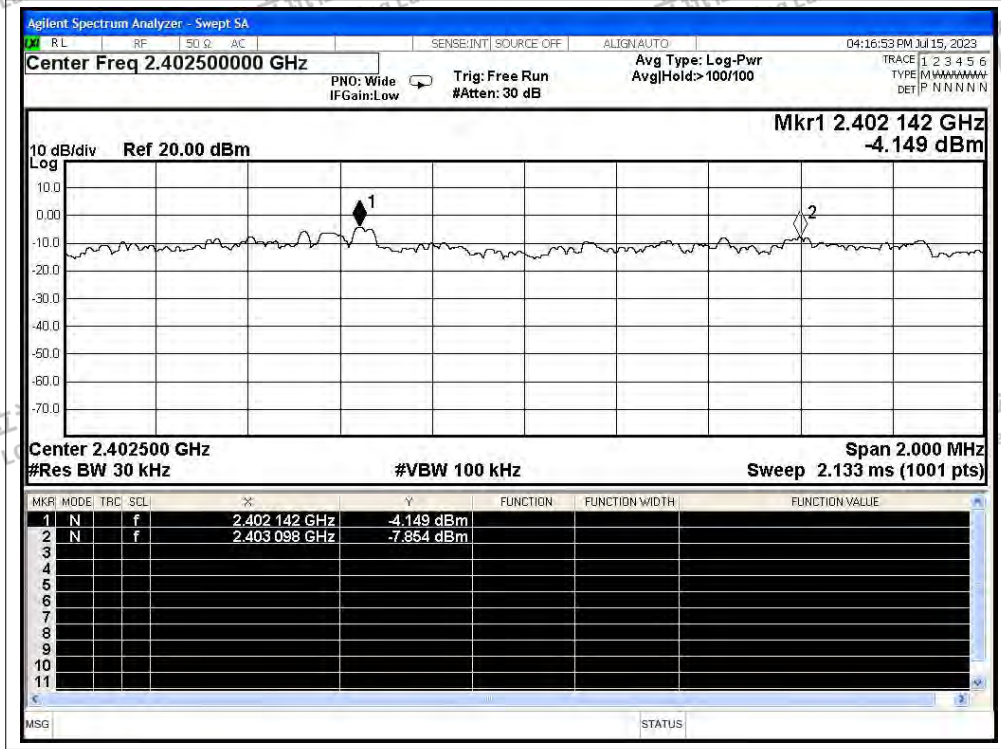


CFS NVNT 2-DH5 2402MHz Ant1





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	288.2	100	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	308.695	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	308.909	107	31600	400	Pass

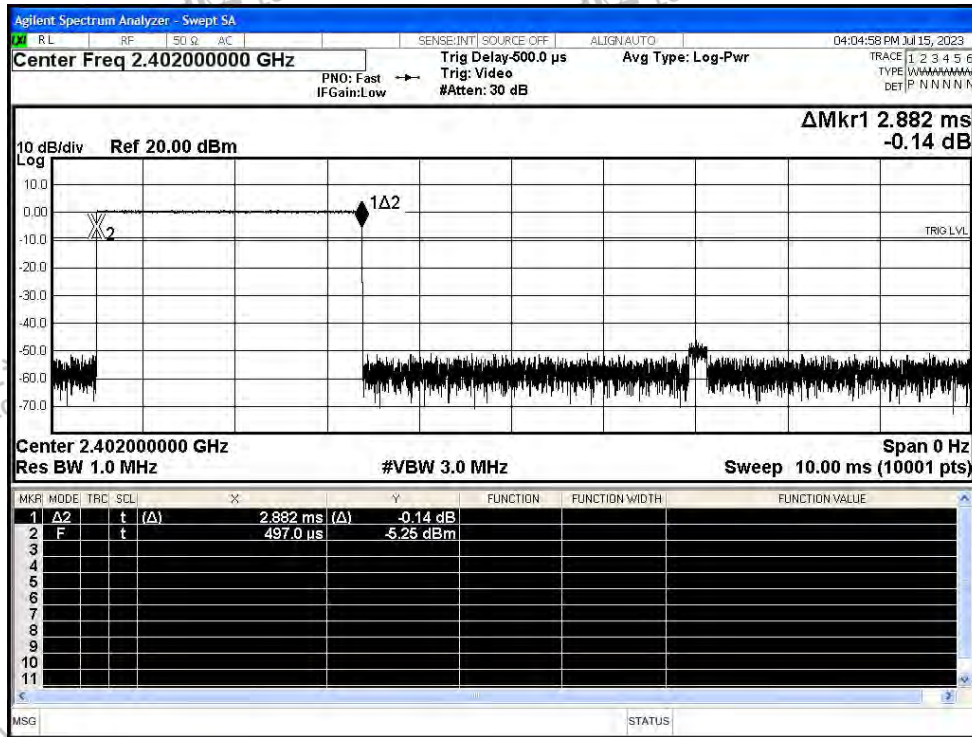


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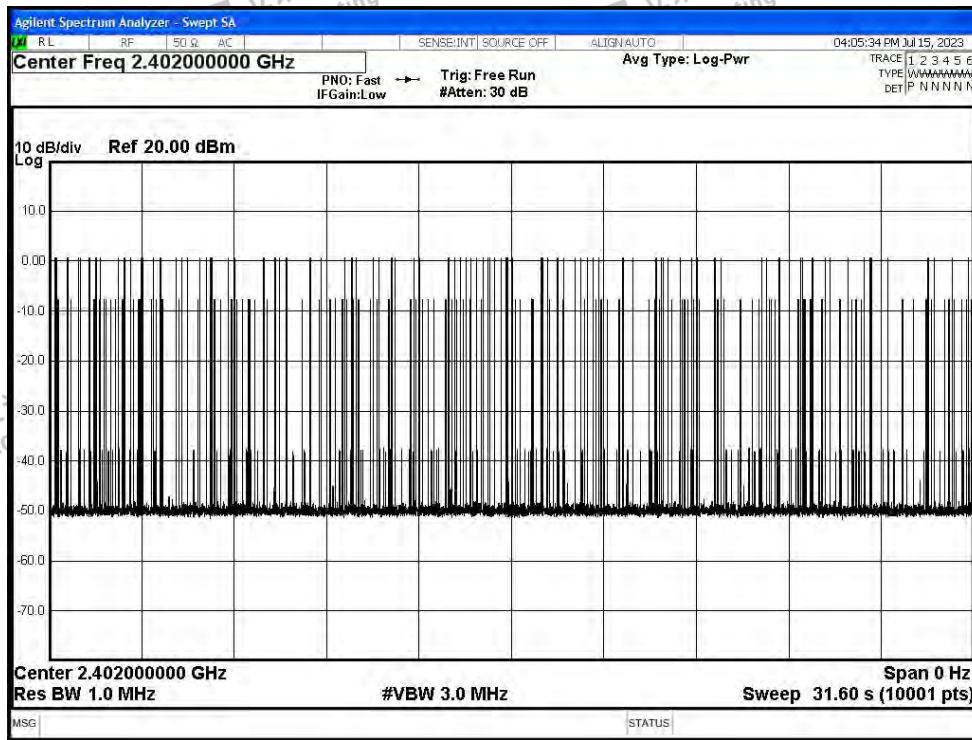


Test Graphs

Dwell-NVNT 1-DH5 2402MHz Ant1 One Burst

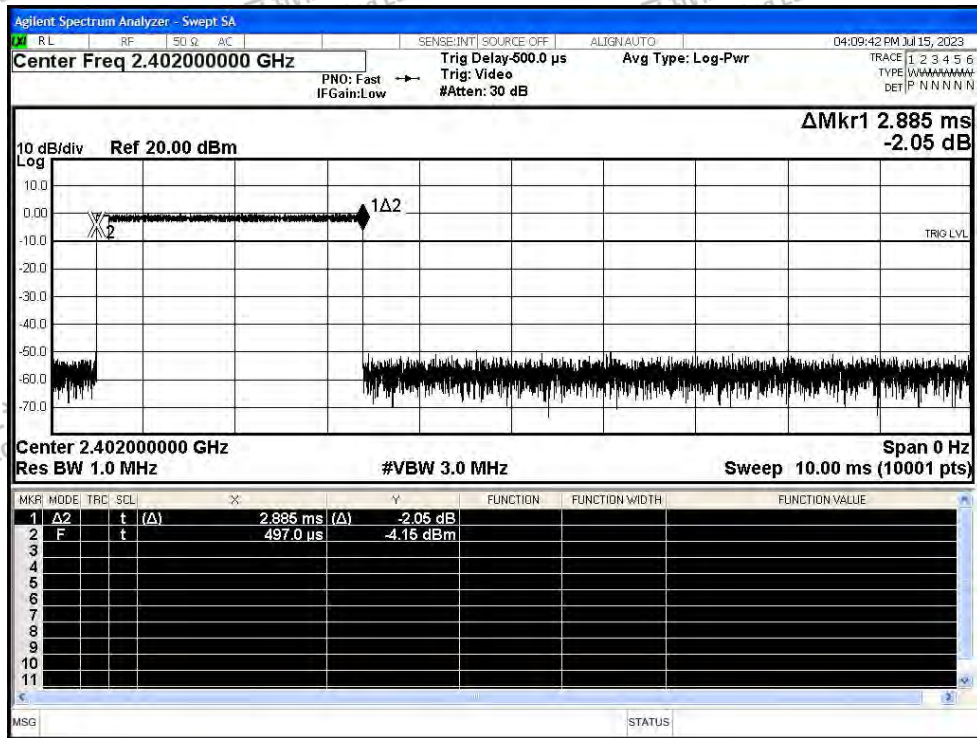


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

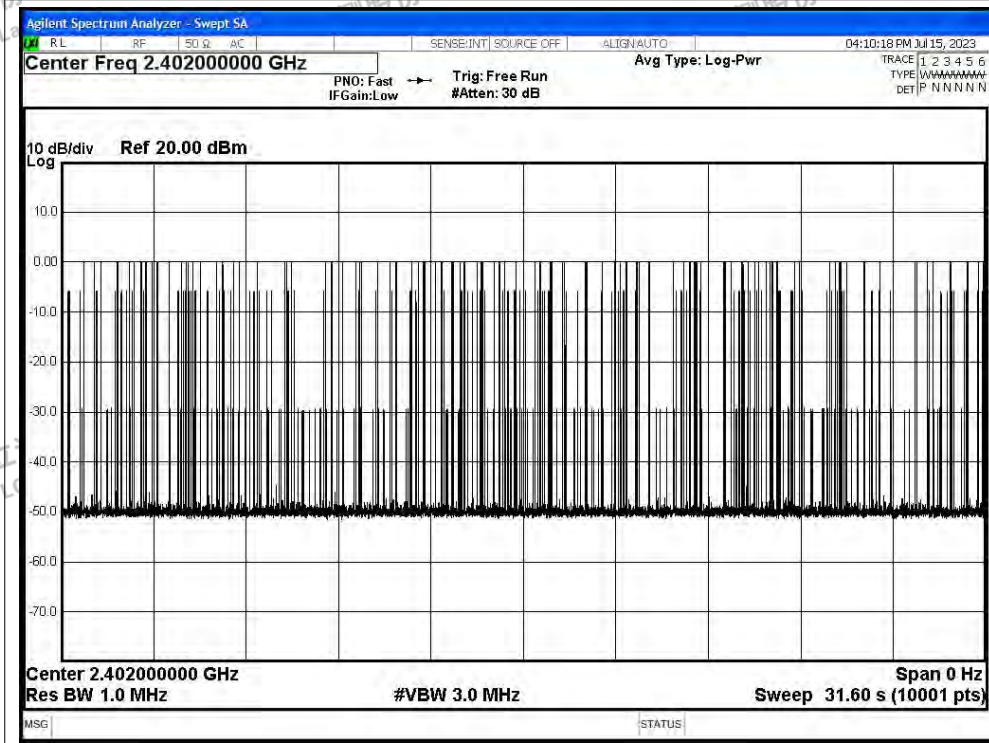




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

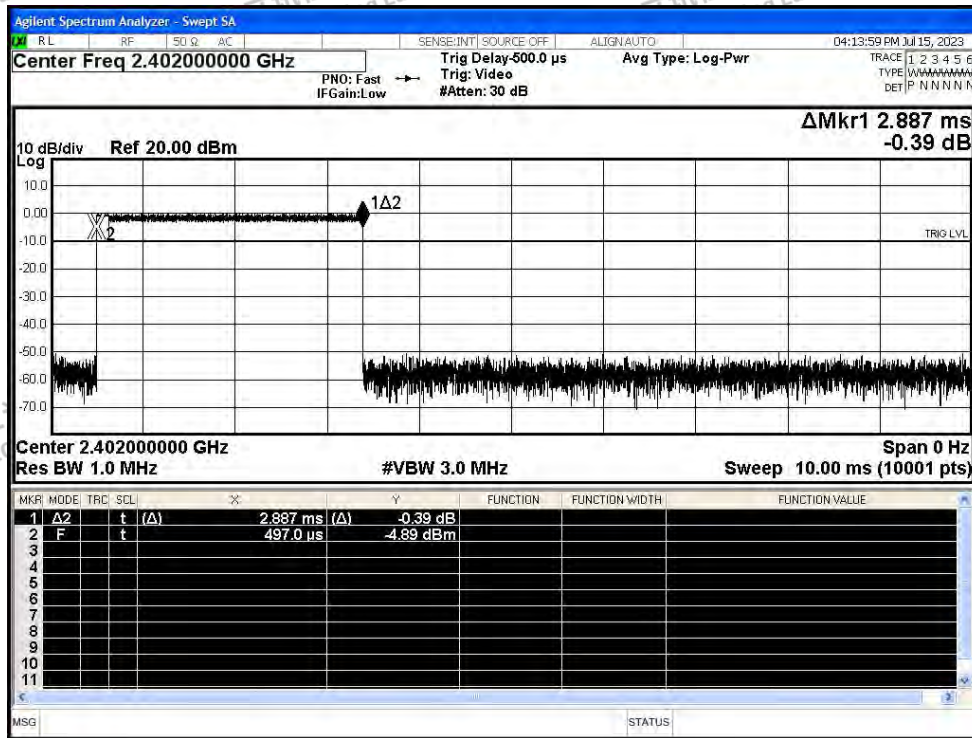


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

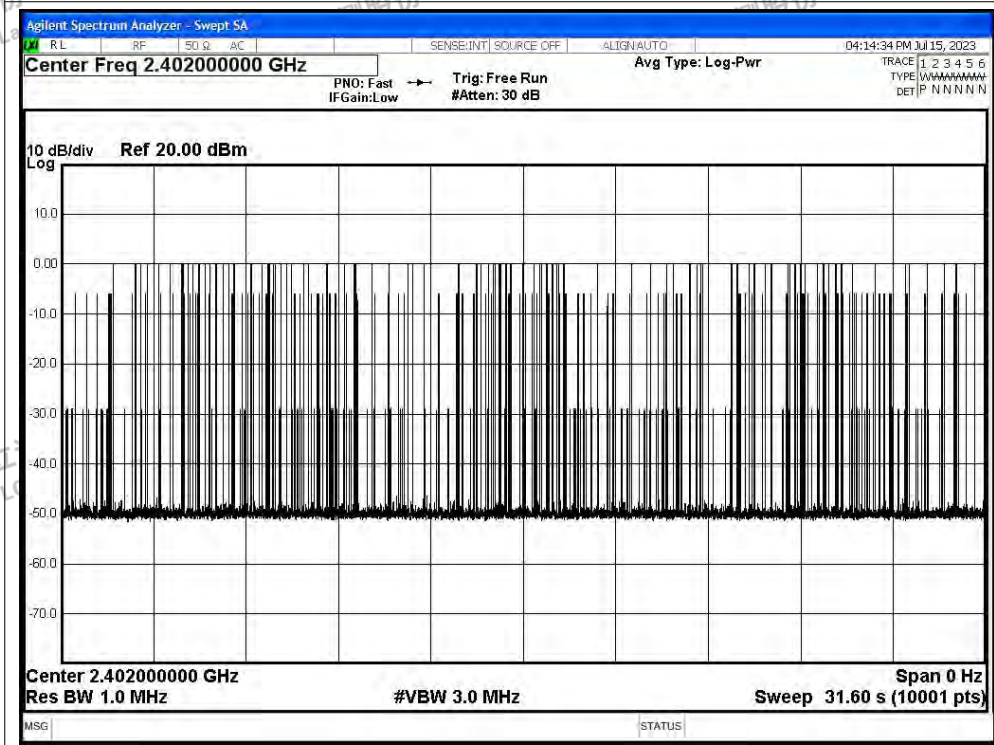




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



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

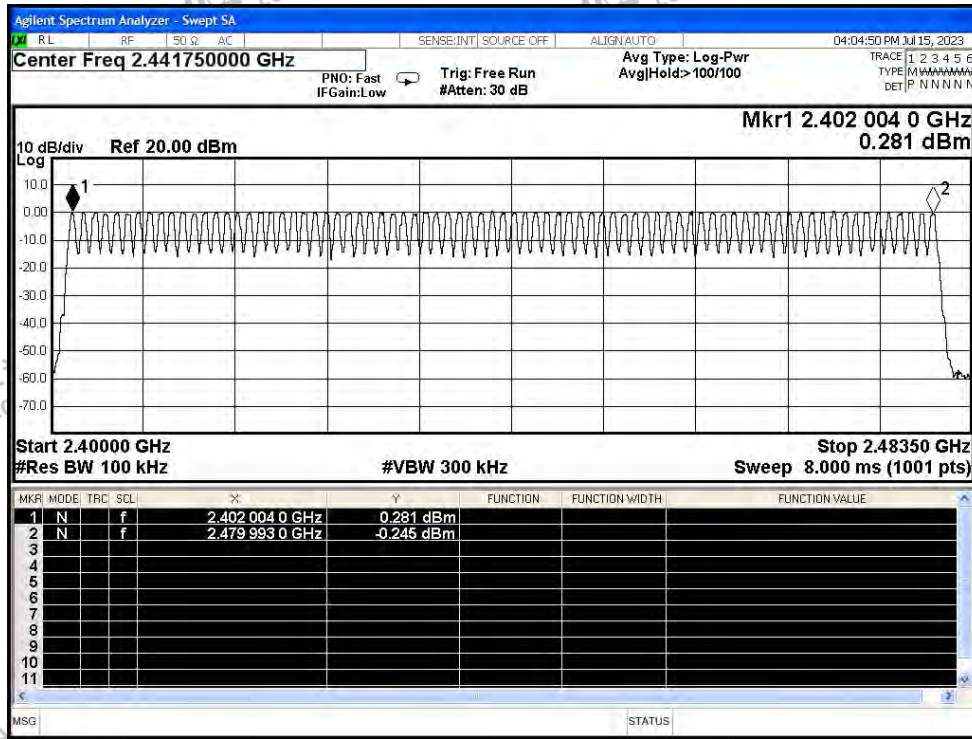


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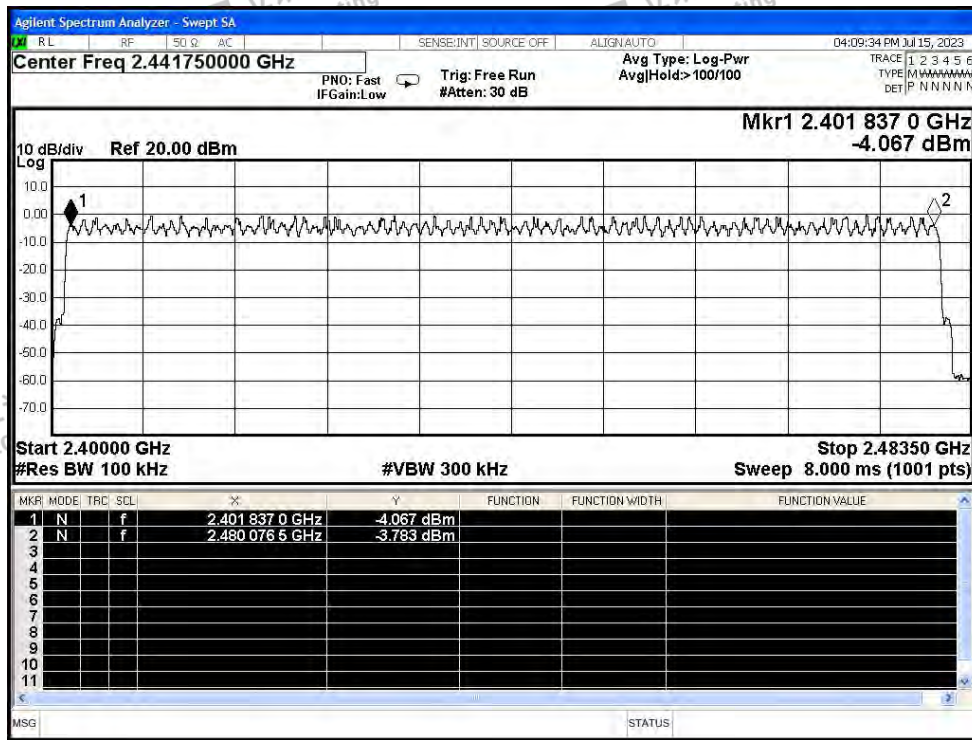


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

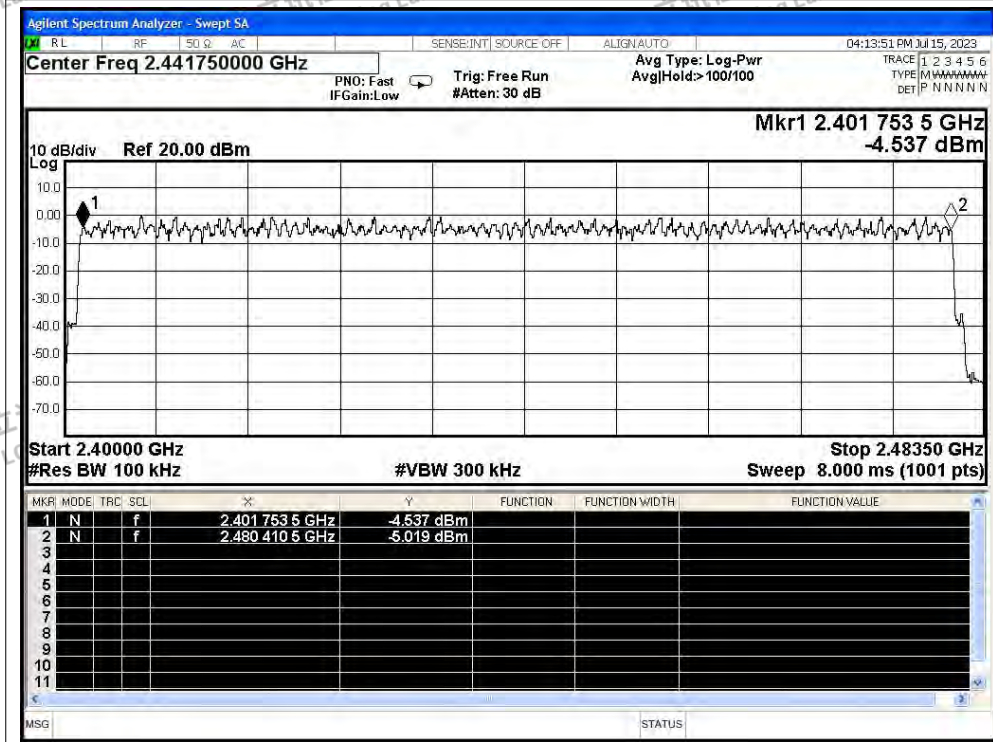


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.67	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.86	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.35	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.78	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-55.26	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.38	-20	Pass

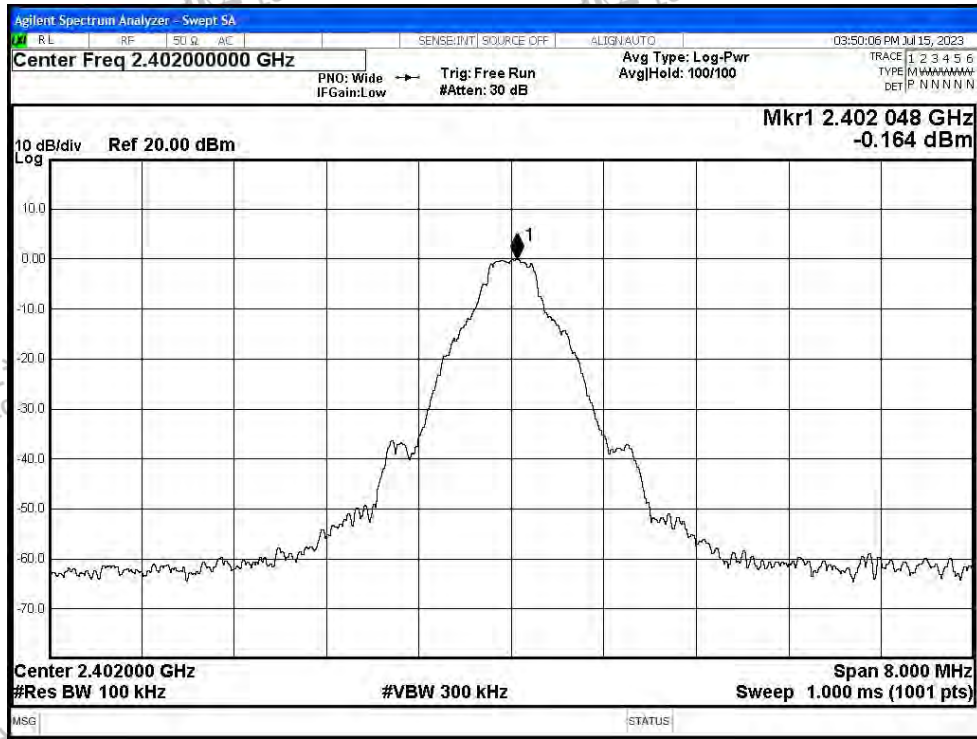


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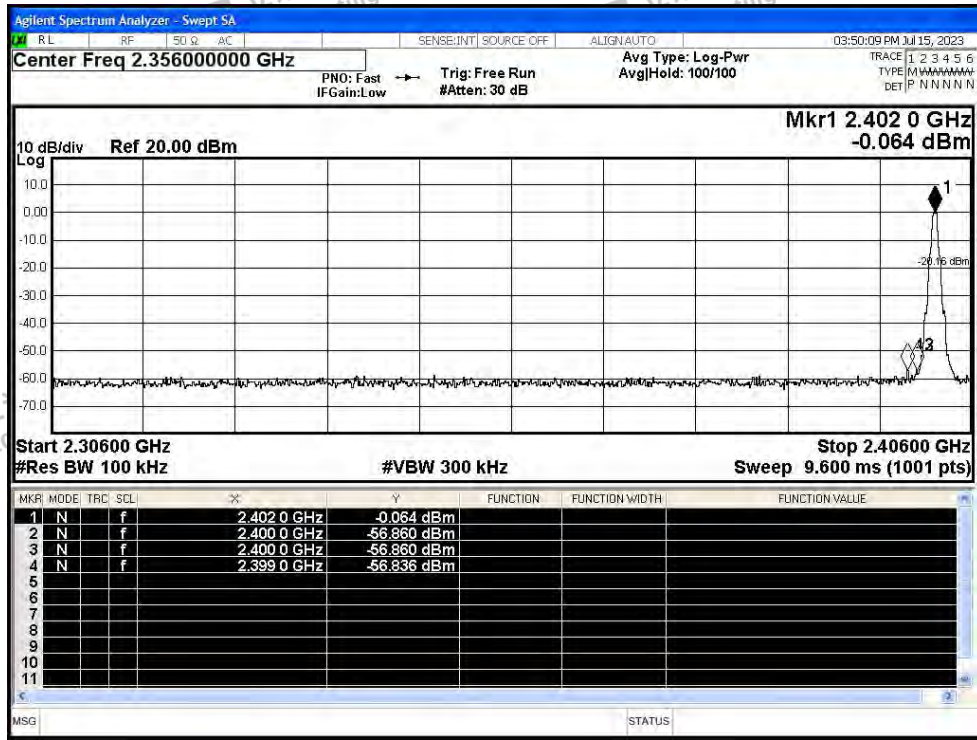


Test Graphs

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

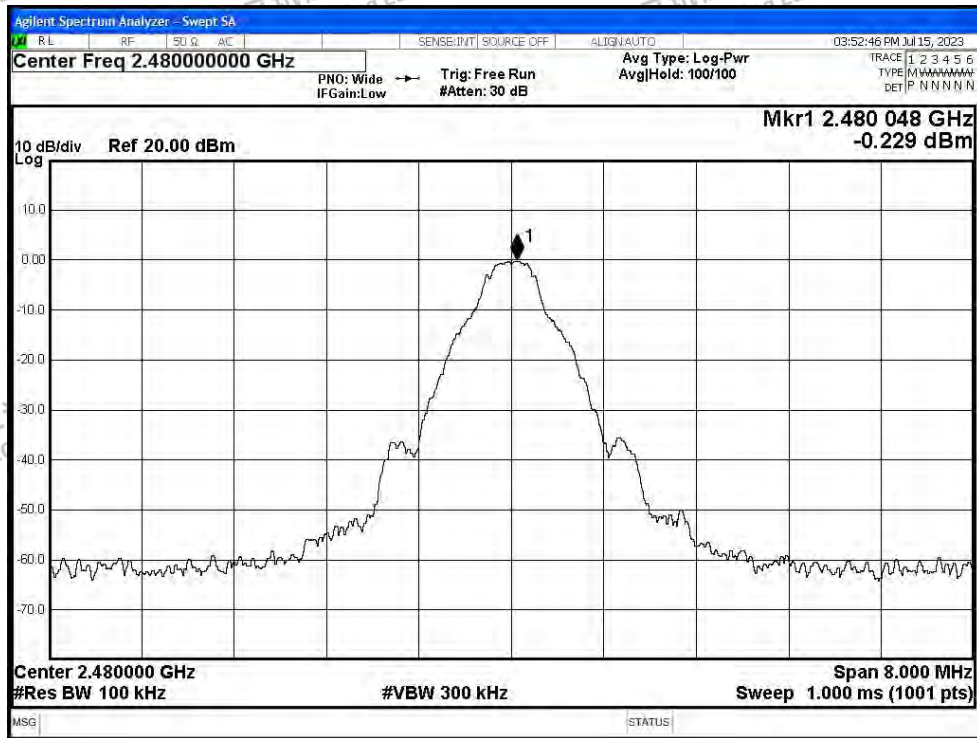


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

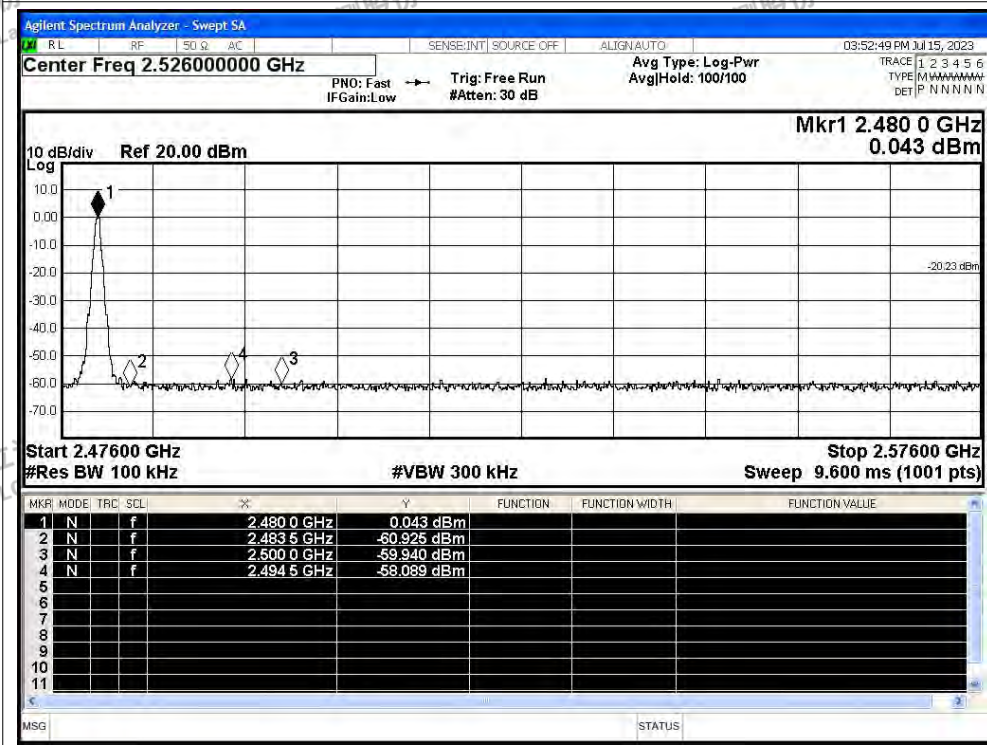




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

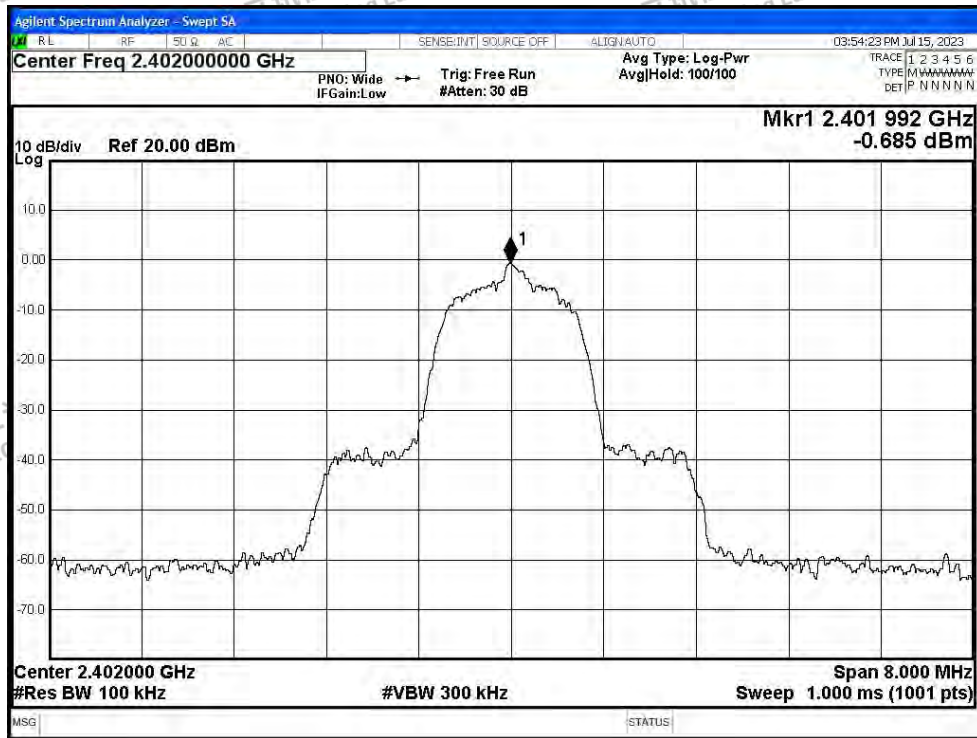


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

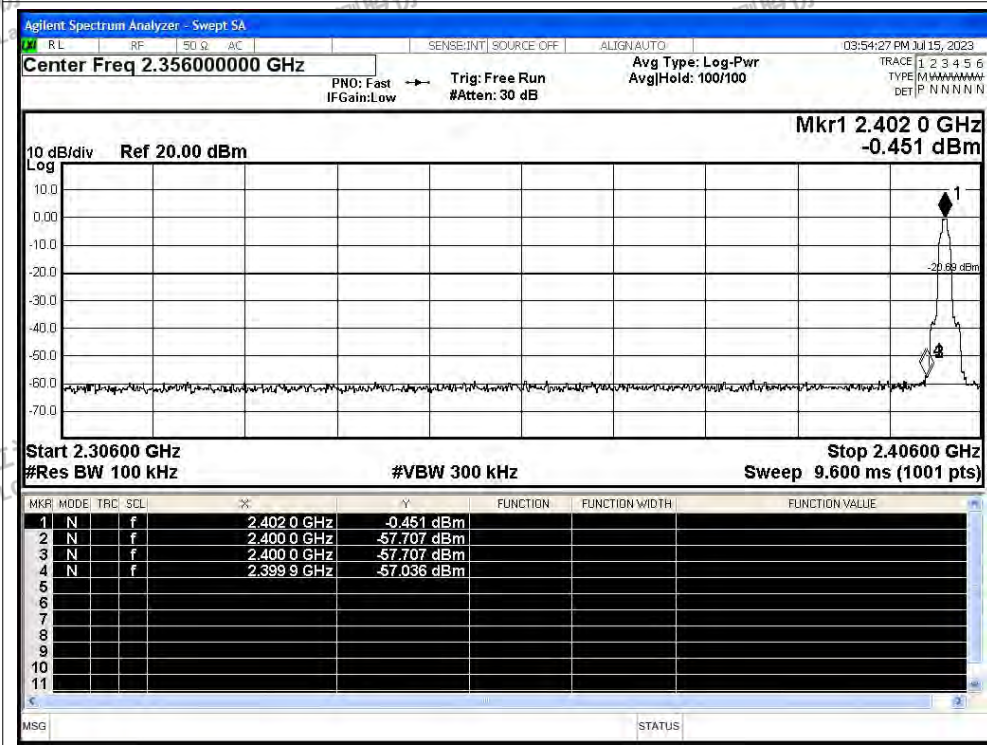




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

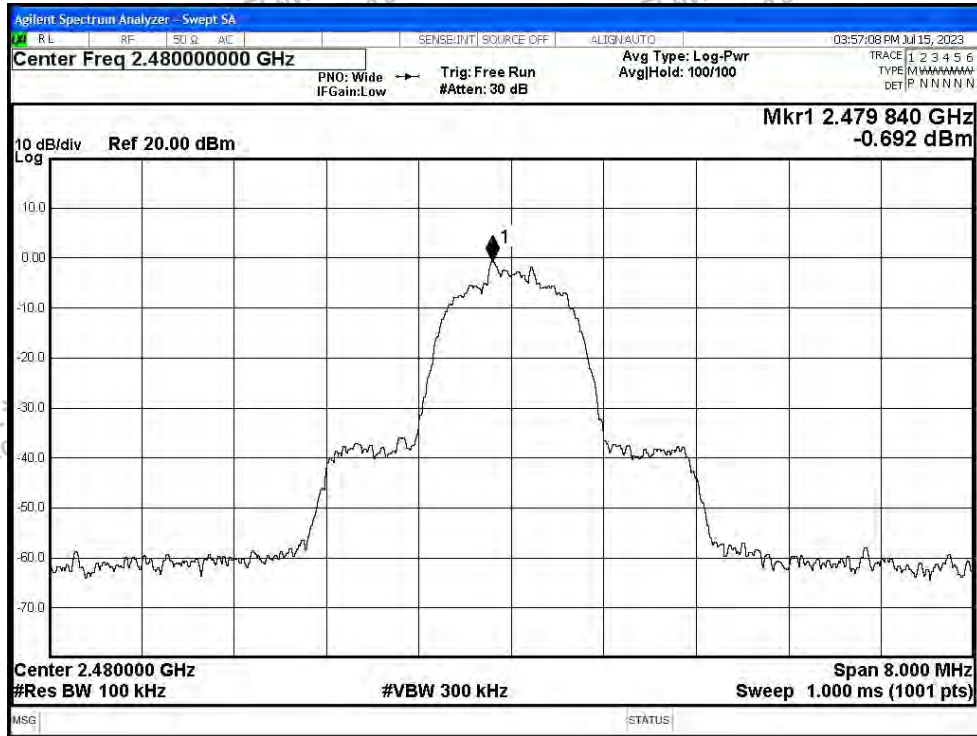


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

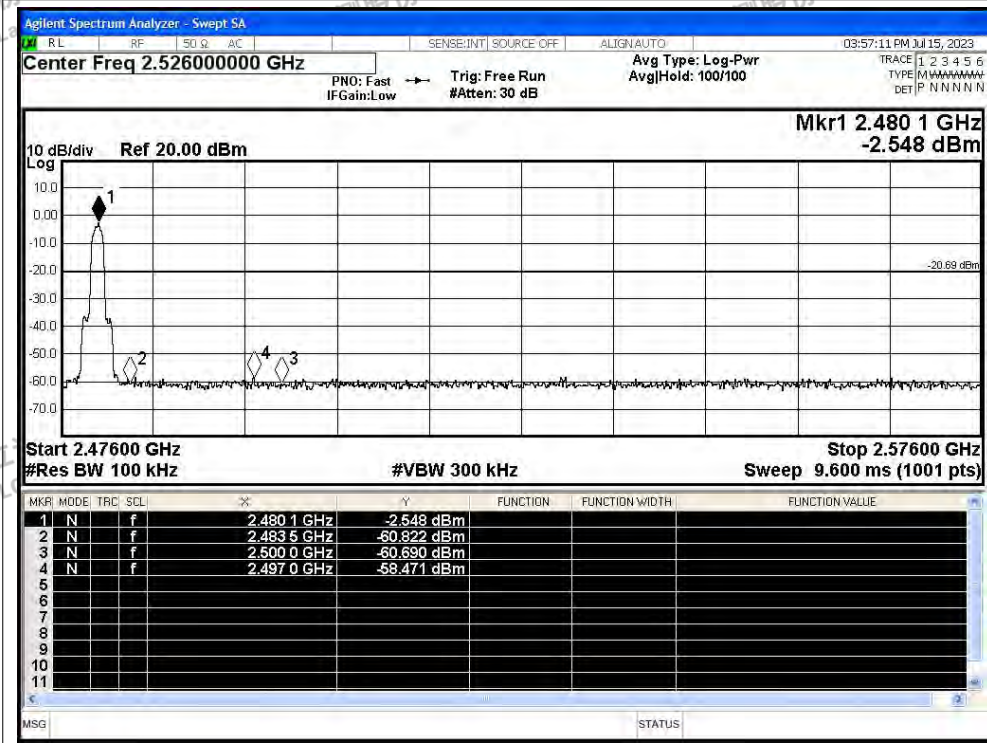




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

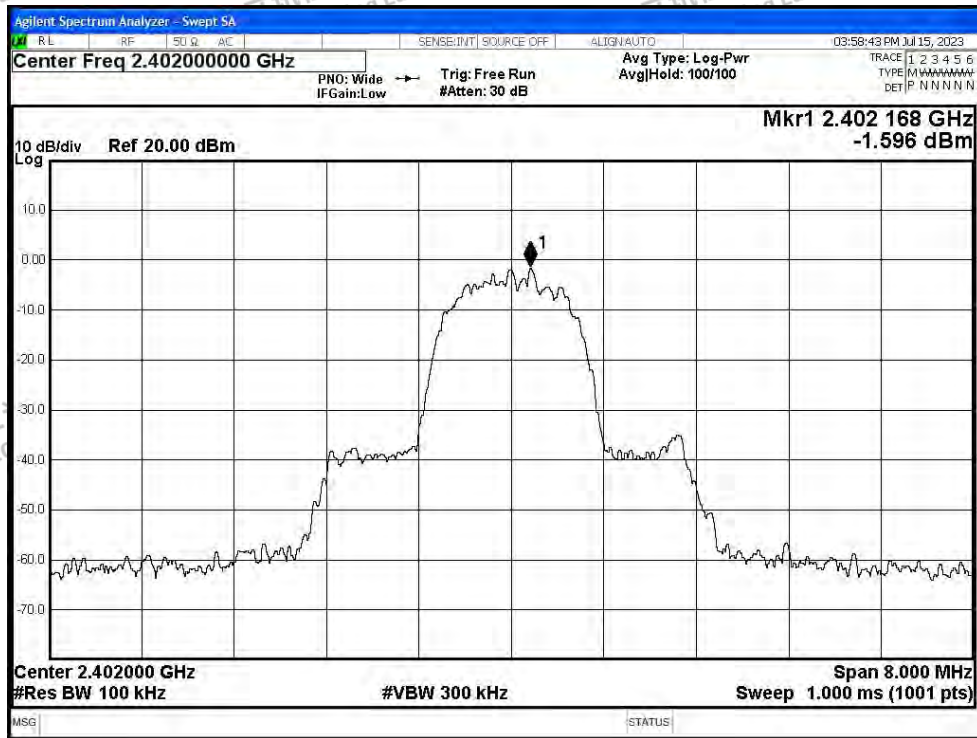


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

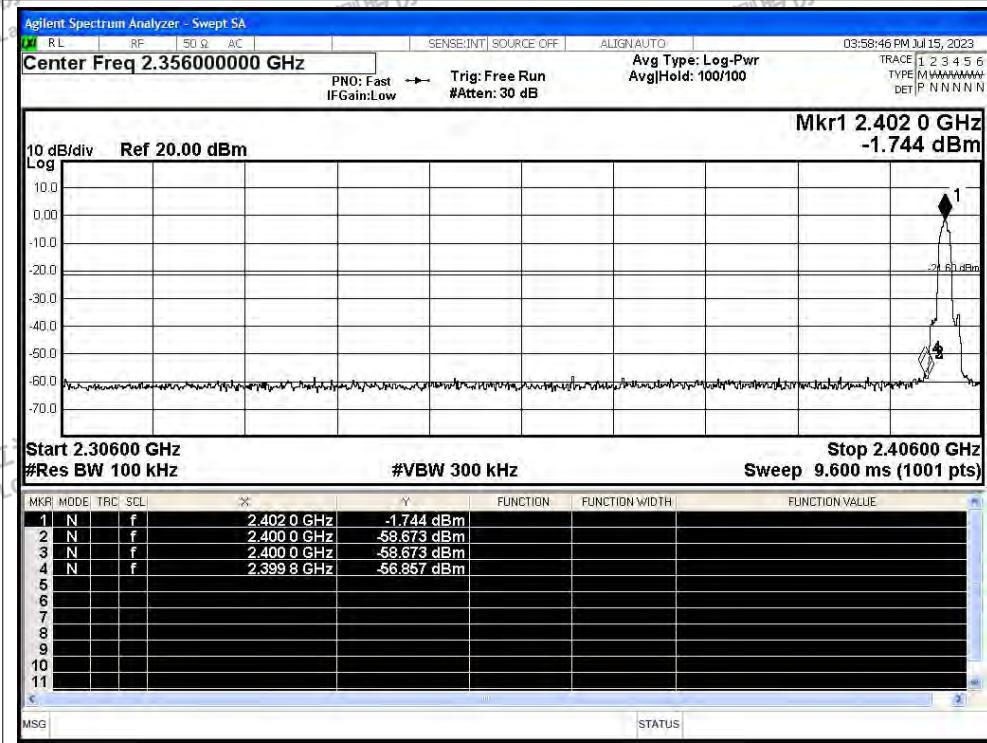




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

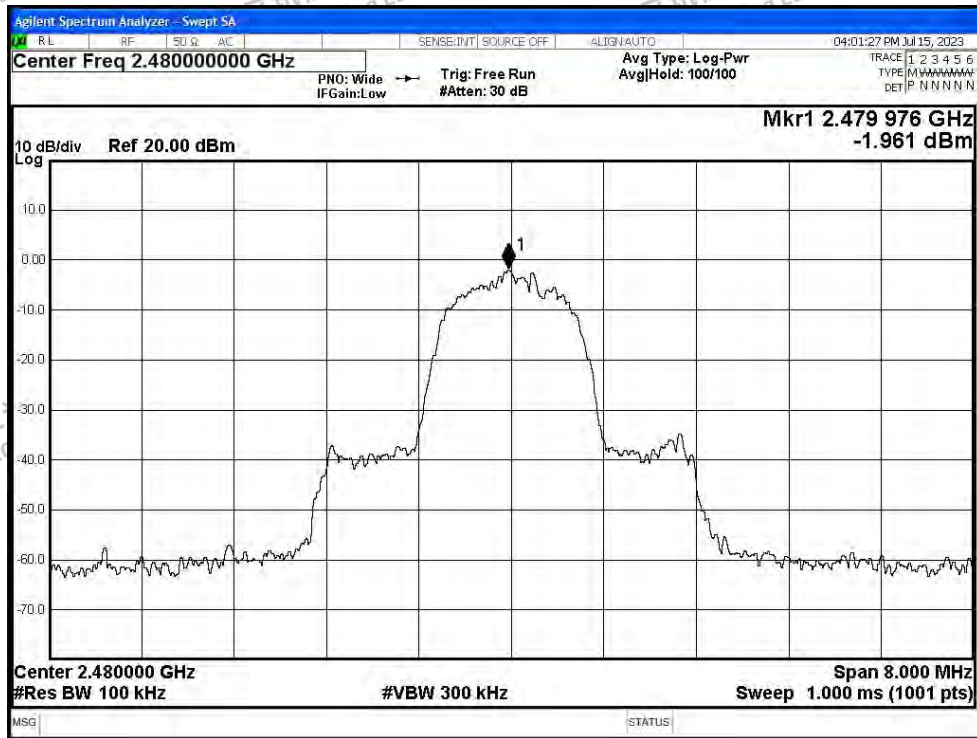


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

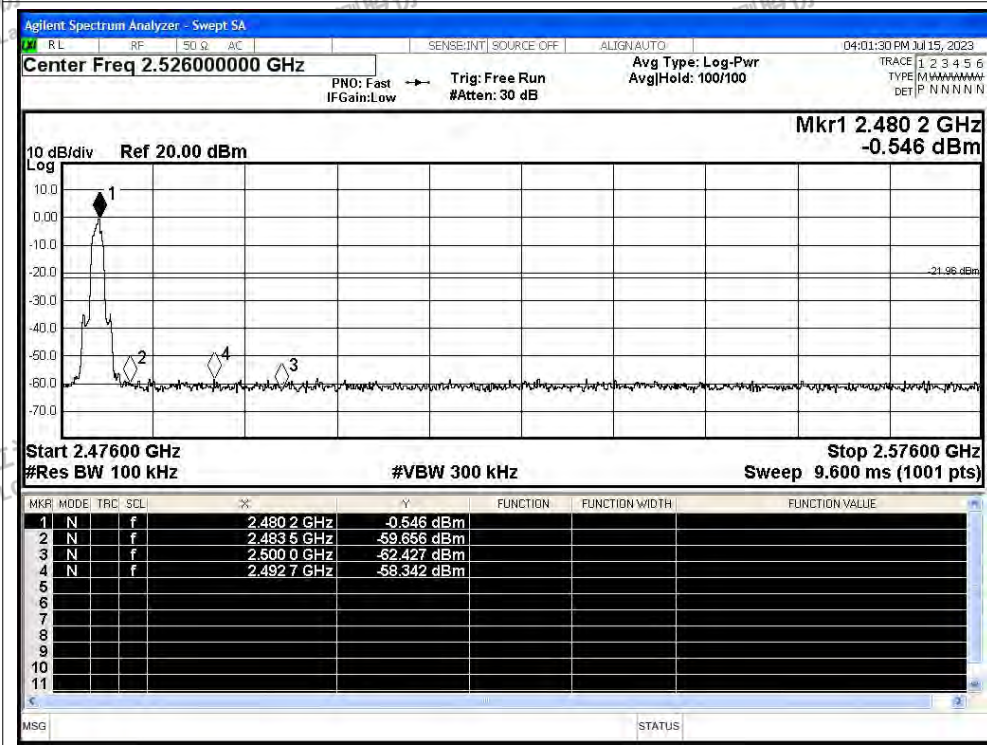




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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	-57.87	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.01	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.85	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.29	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-56.91	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.97	-20	Pass



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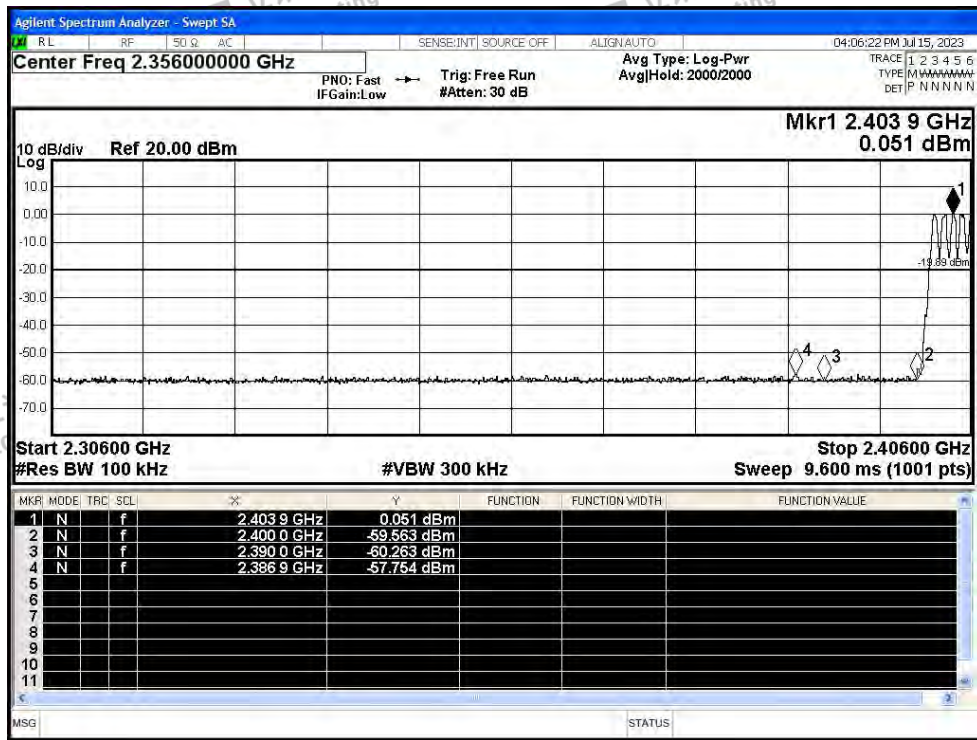


Test Graphs

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



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

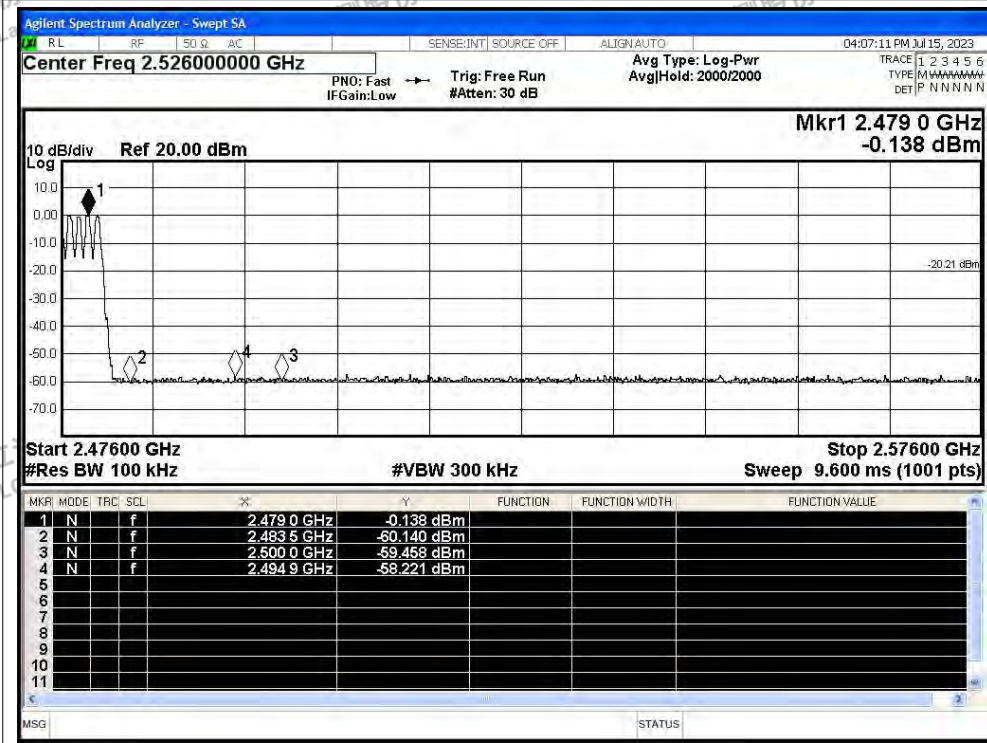




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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

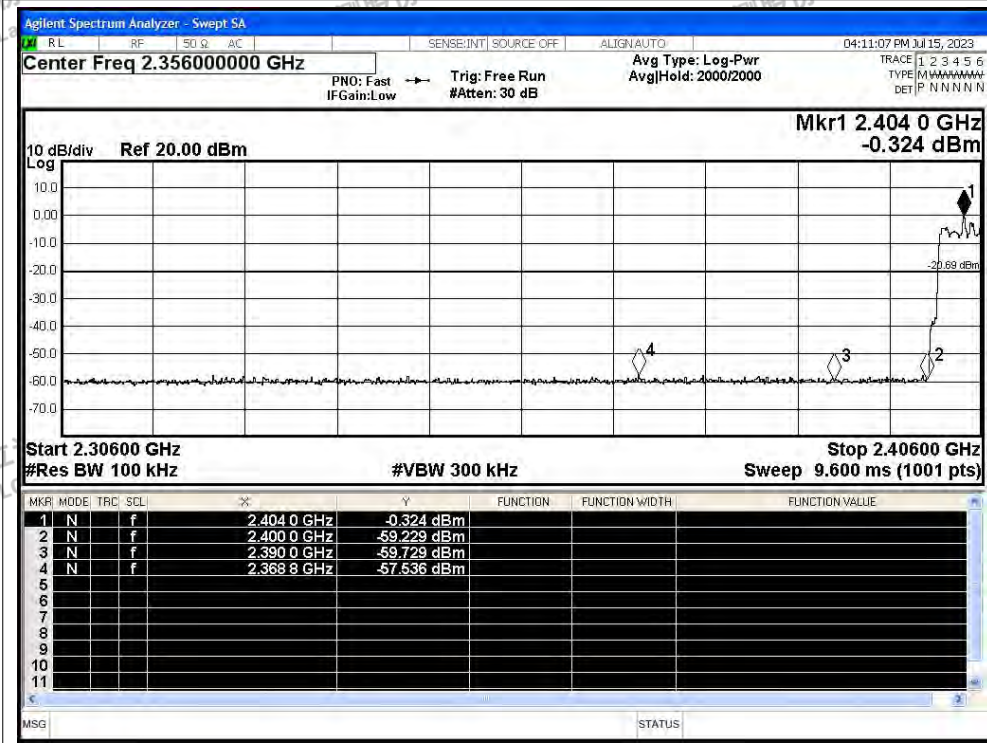




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

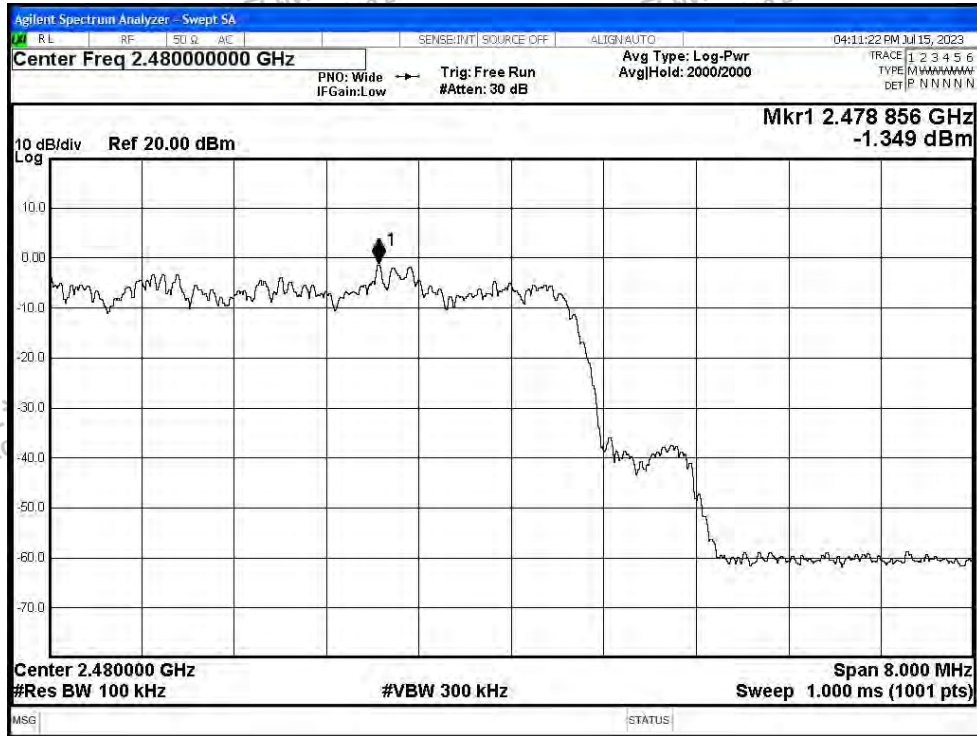


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

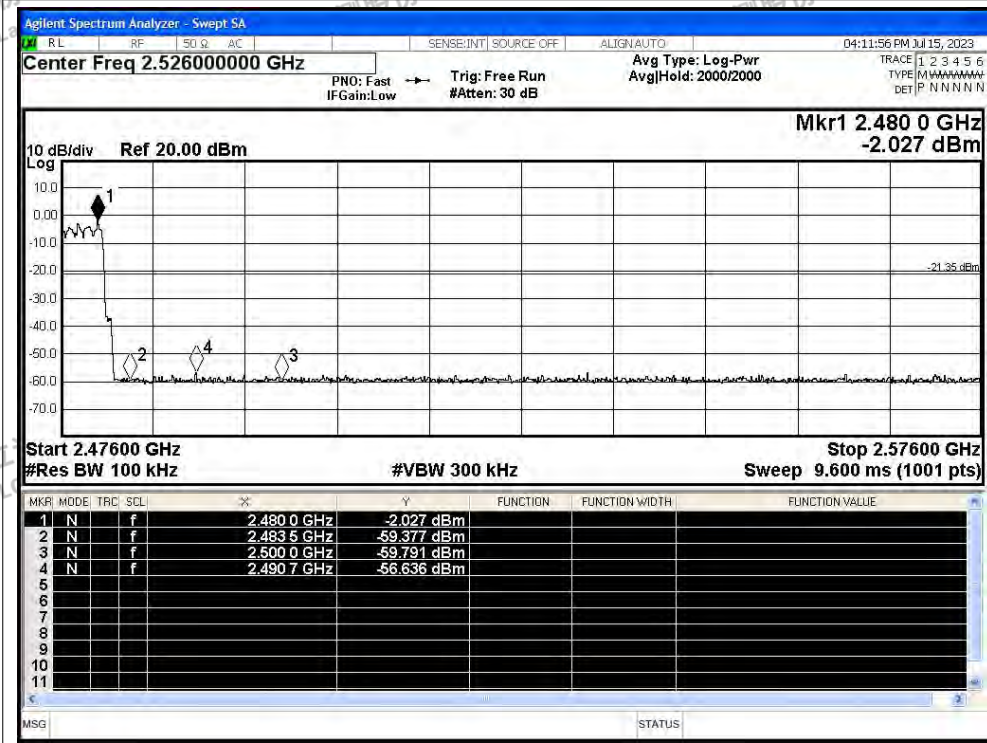




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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

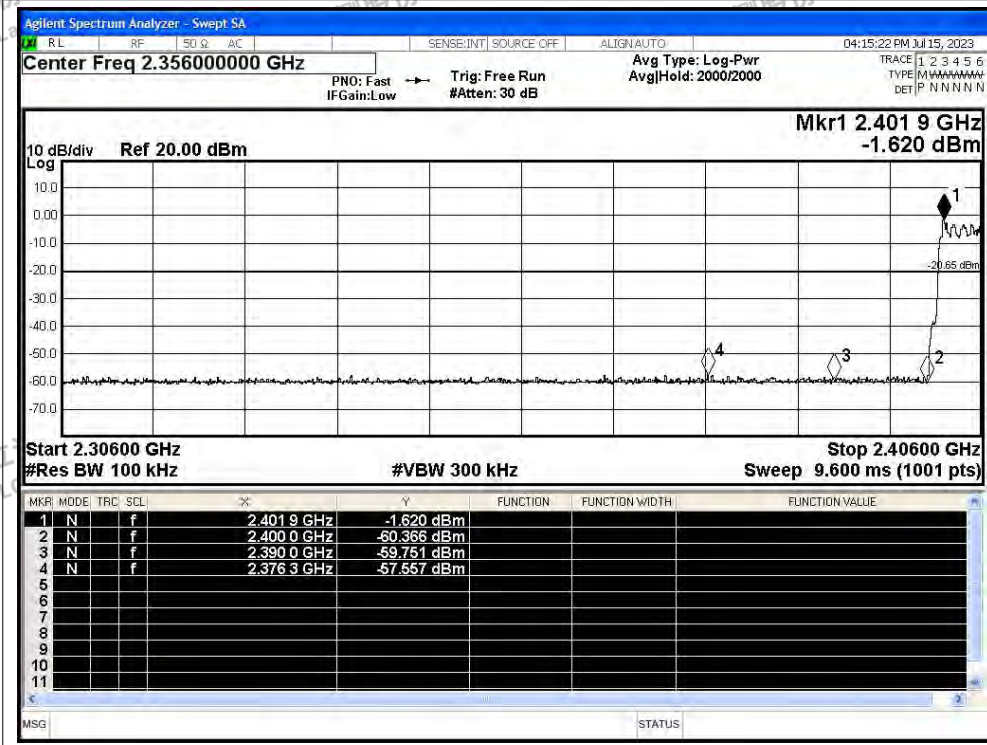




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

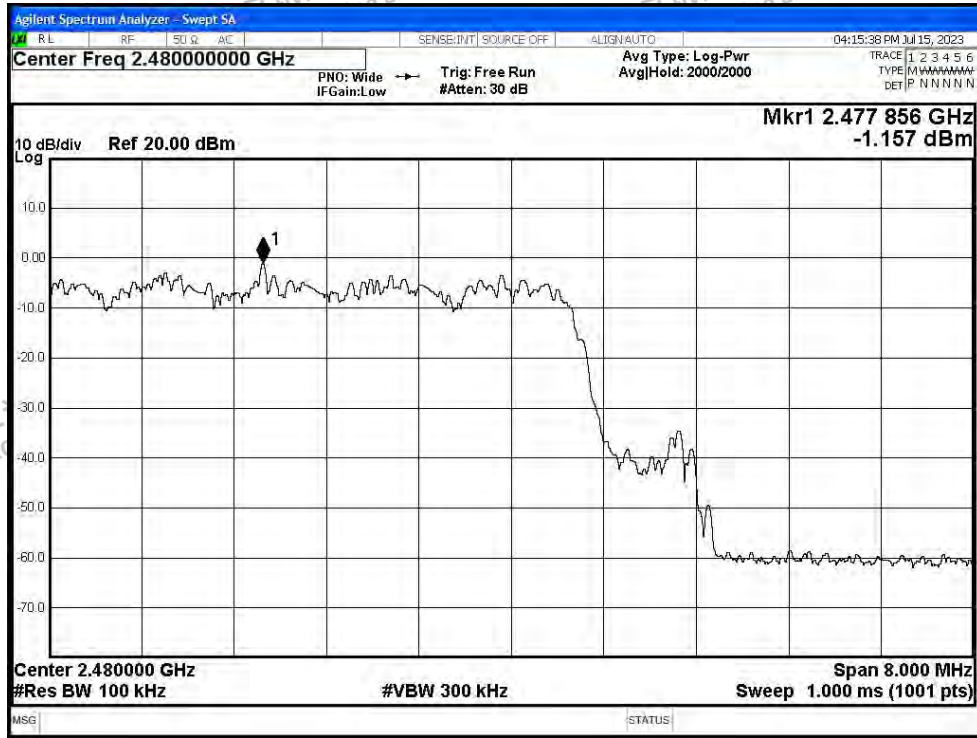


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

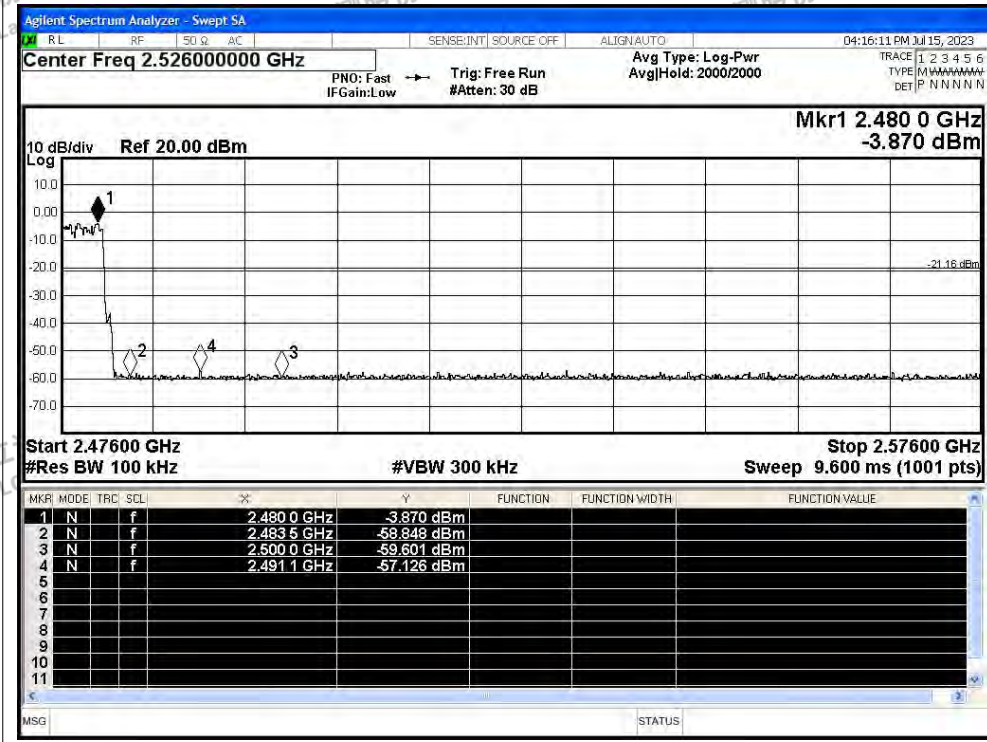




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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	-55.93	-20	Pass
NVNT	1-DH5	2441	Ant1	-43.14	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.49	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.8	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.13	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.35	-20	Pass
NVNT	3-DH5	2402	Ant1	-50.13	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.87	-20	Pass
NVNT	3-DH5	2480	Ant1	-56.88	-20	Pass

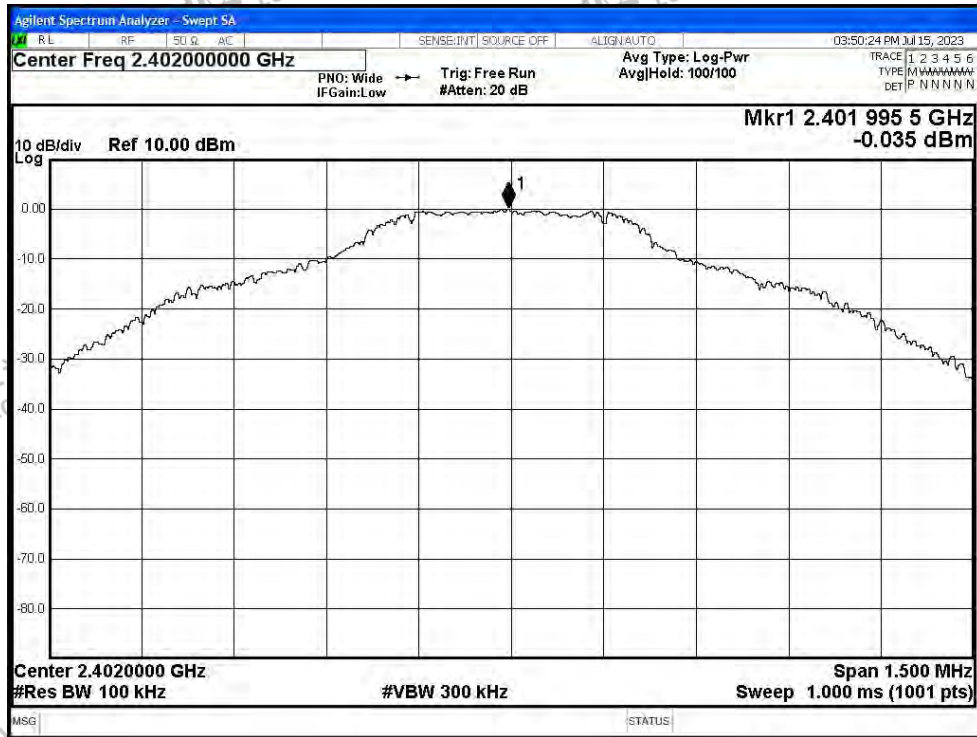


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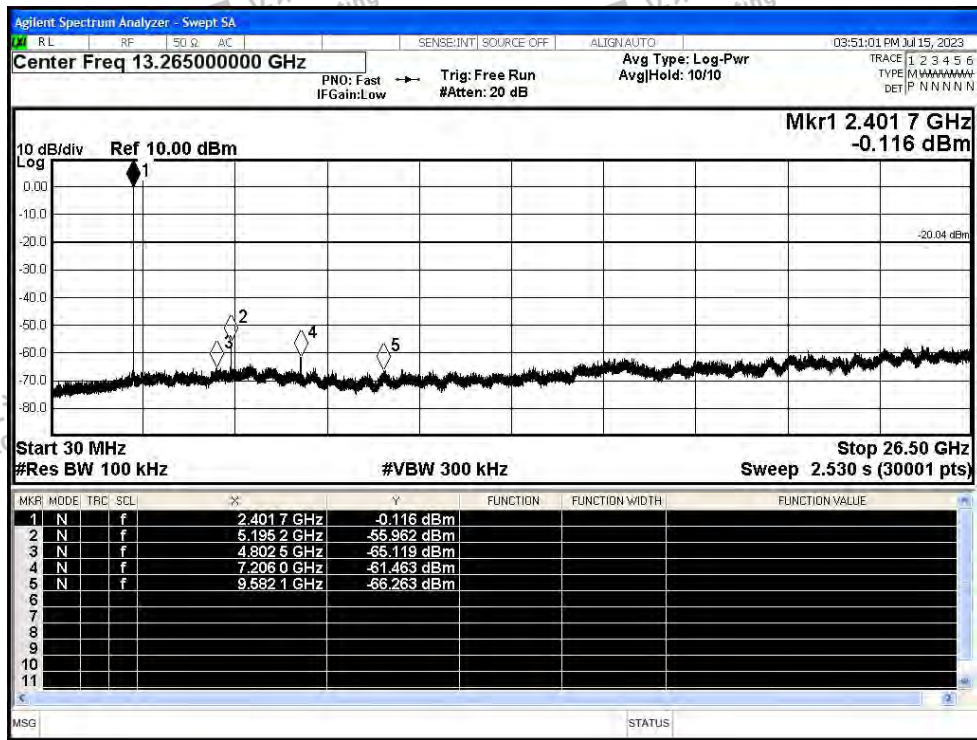


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

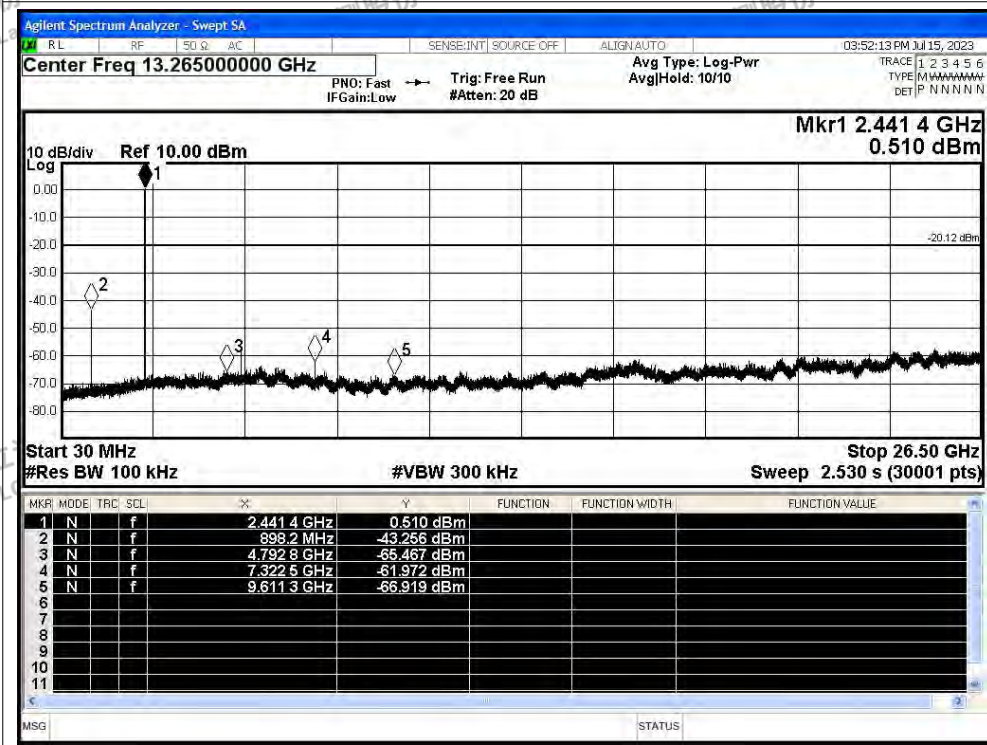




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

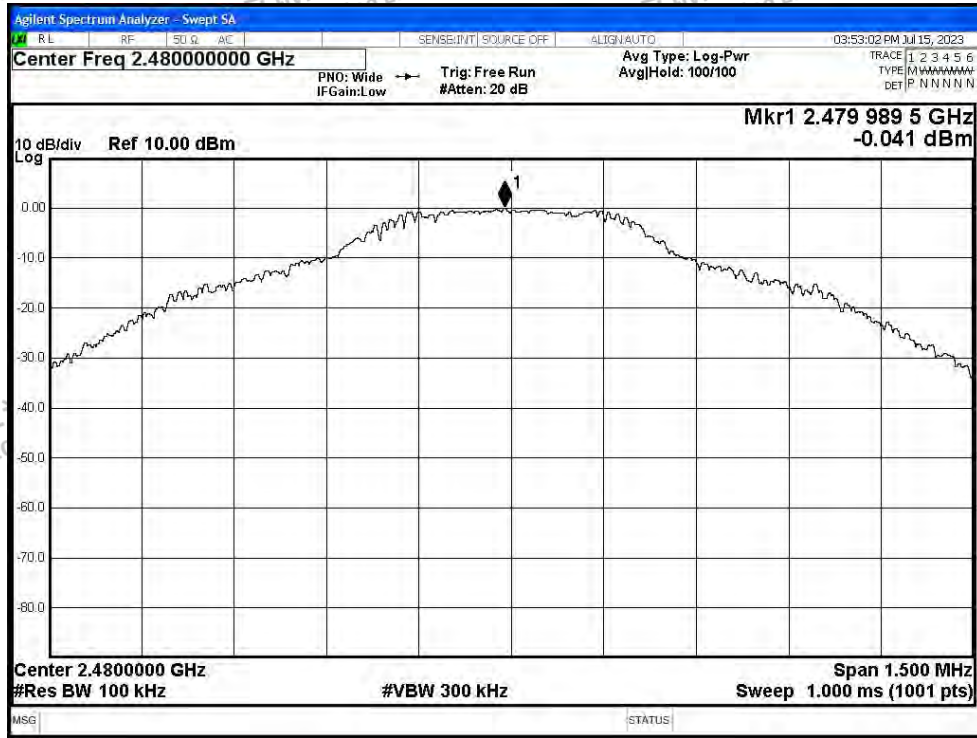


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

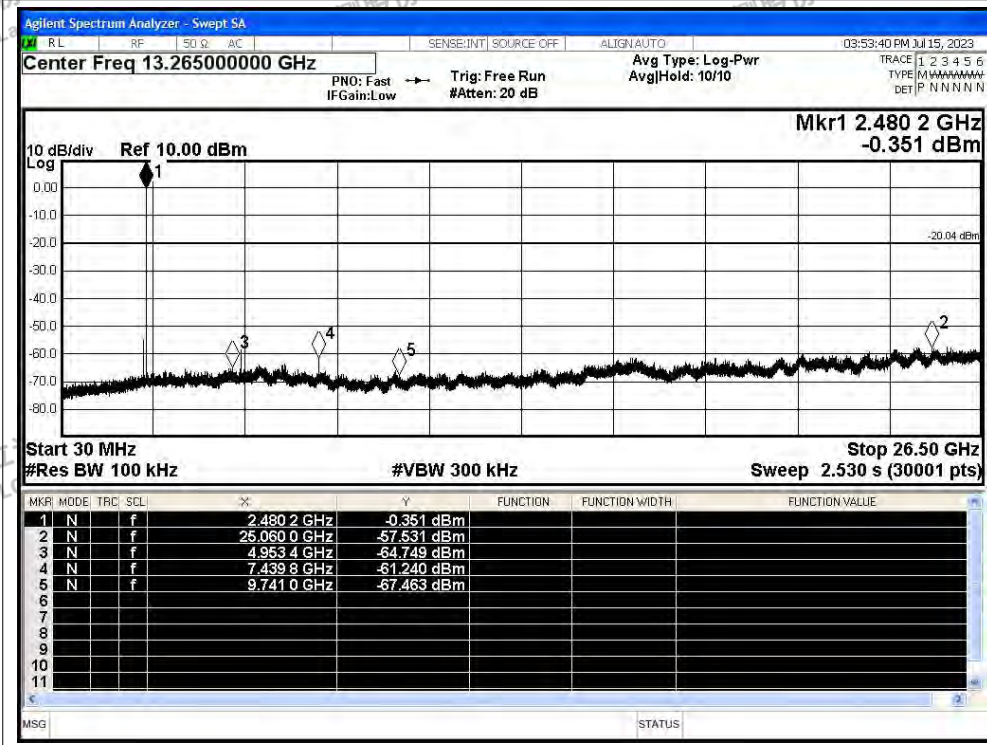




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

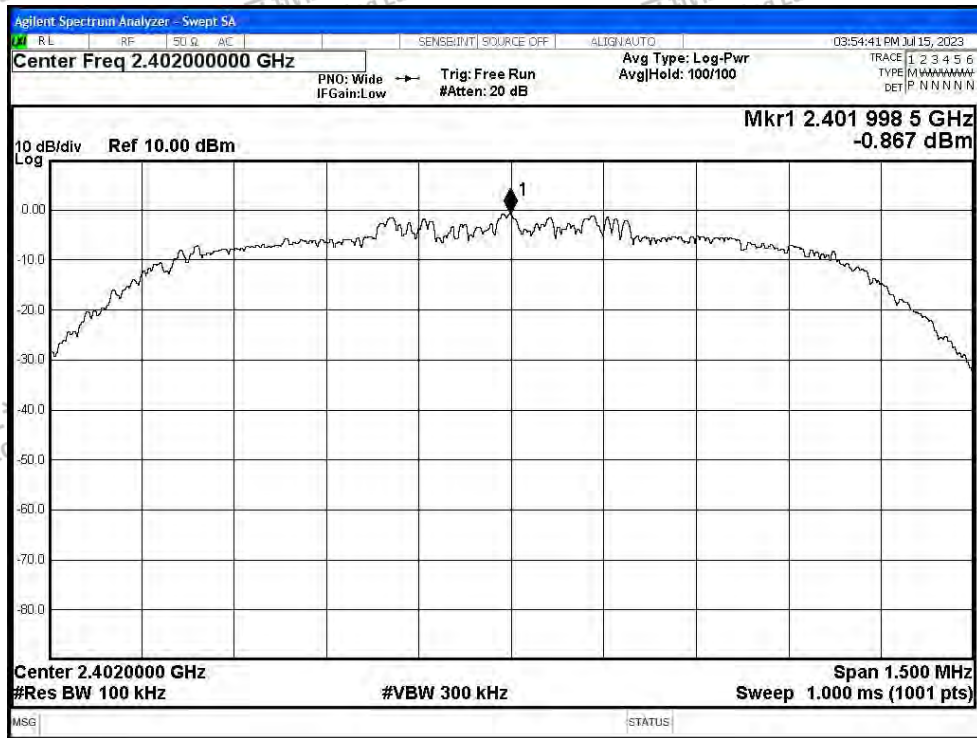


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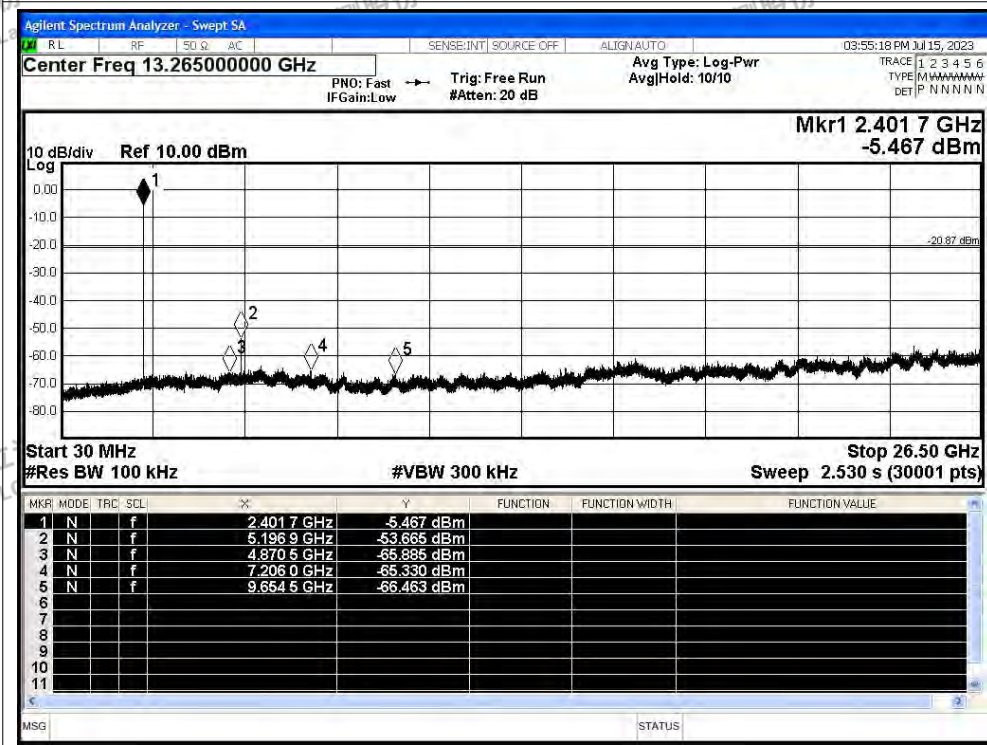




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

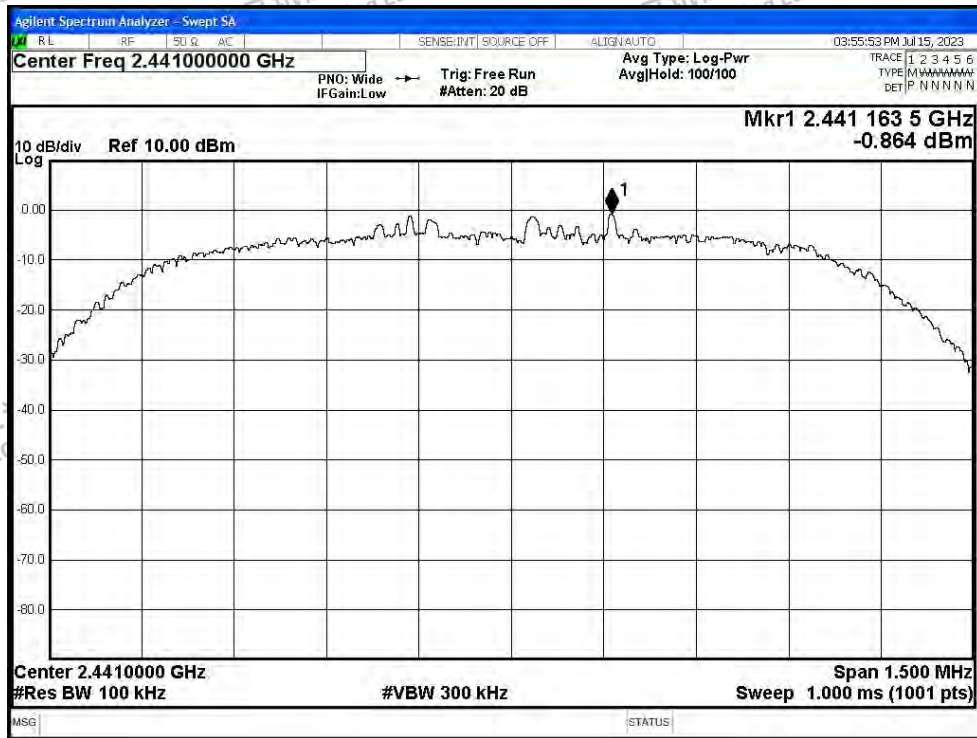


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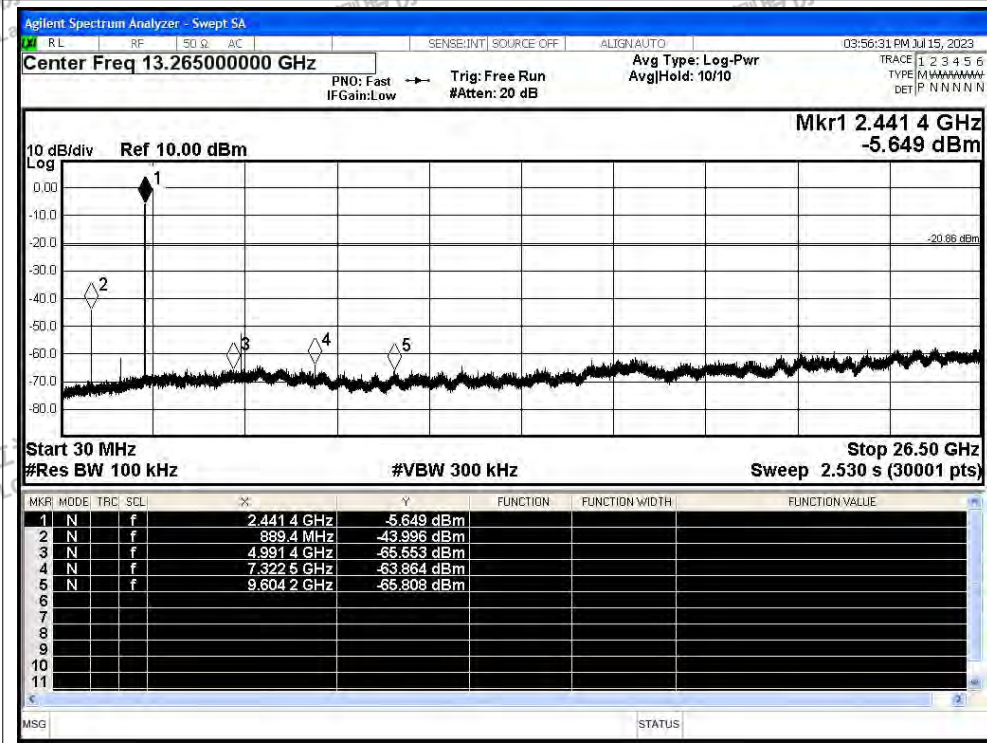




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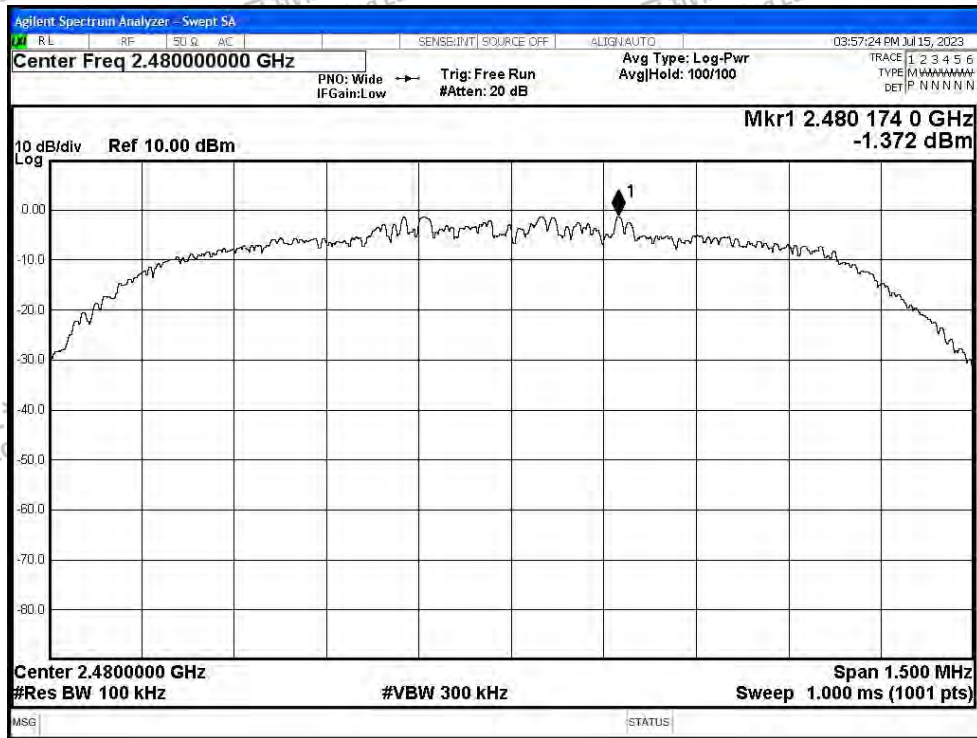


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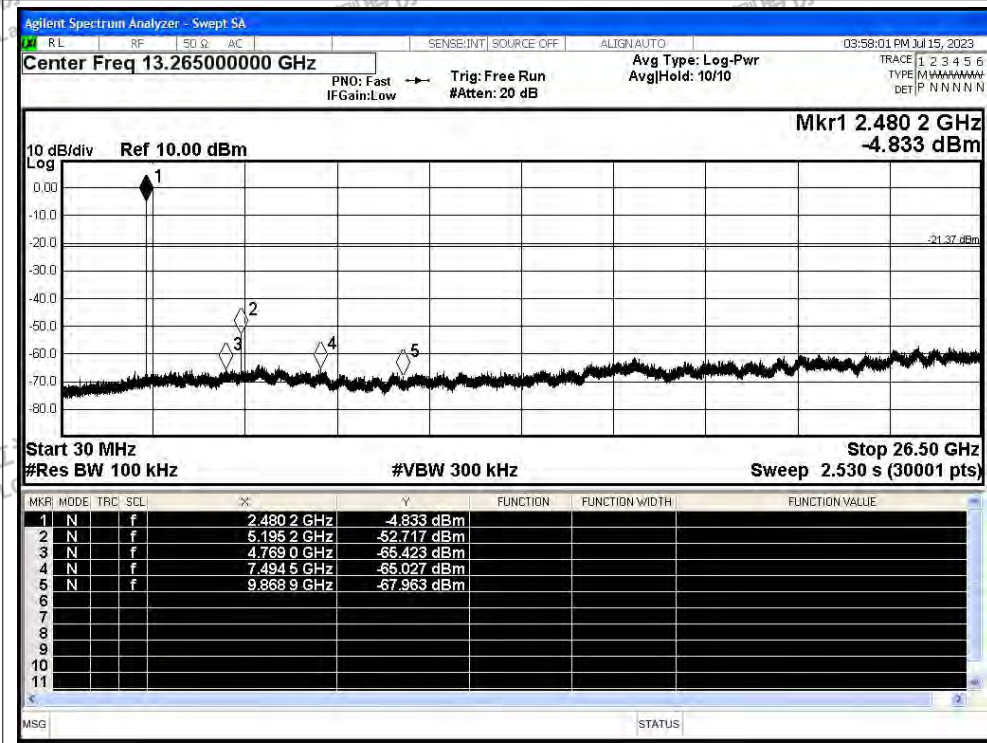




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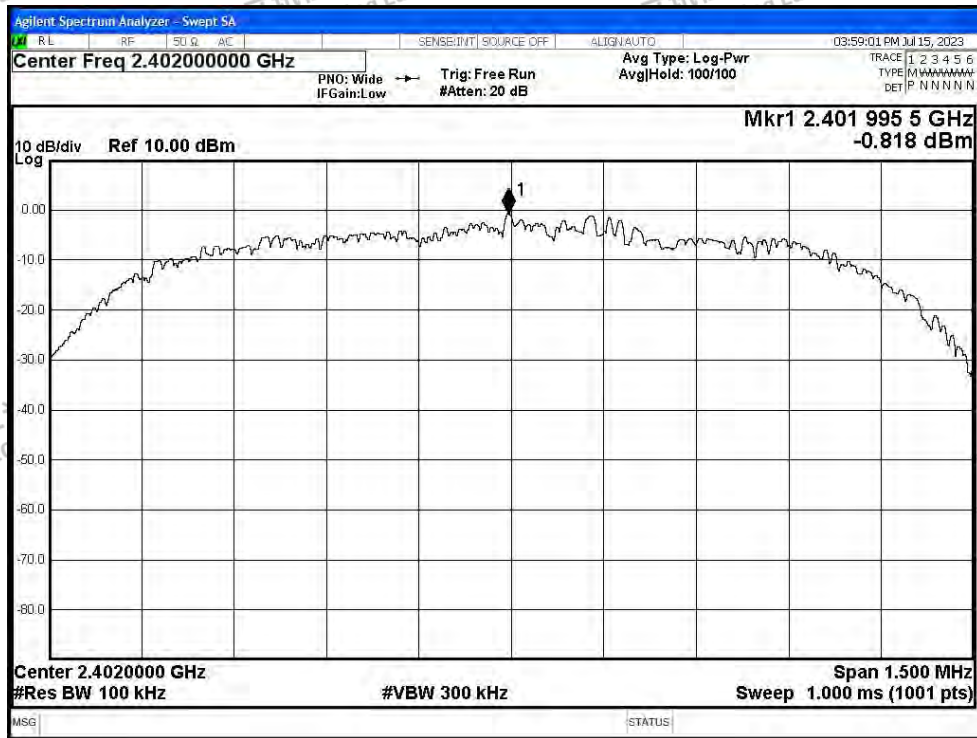


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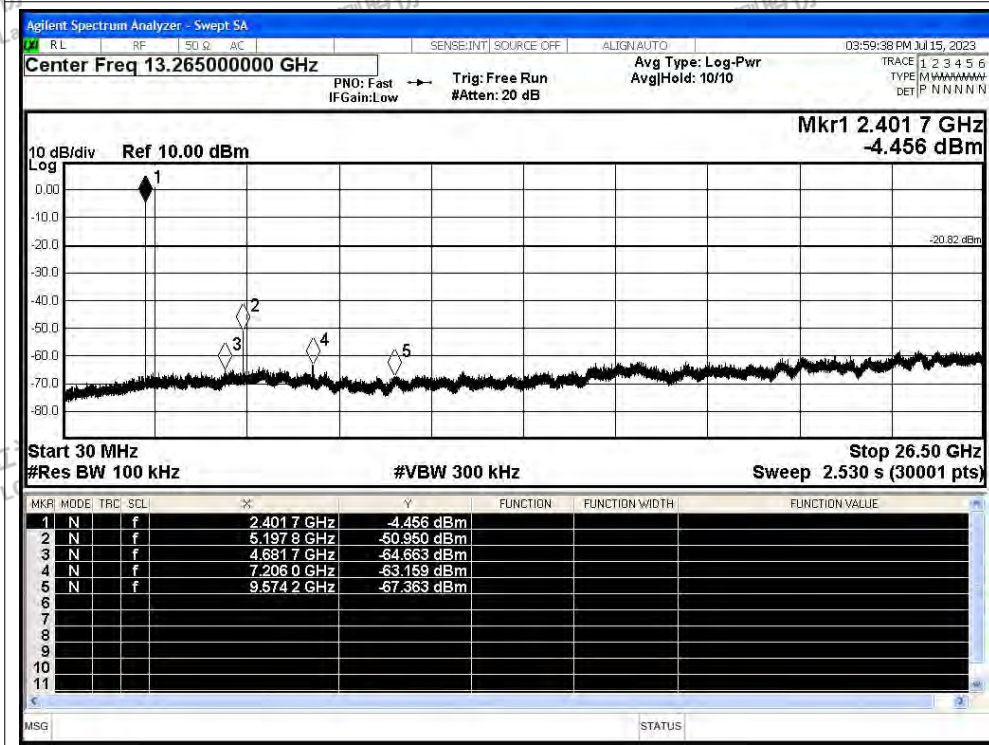




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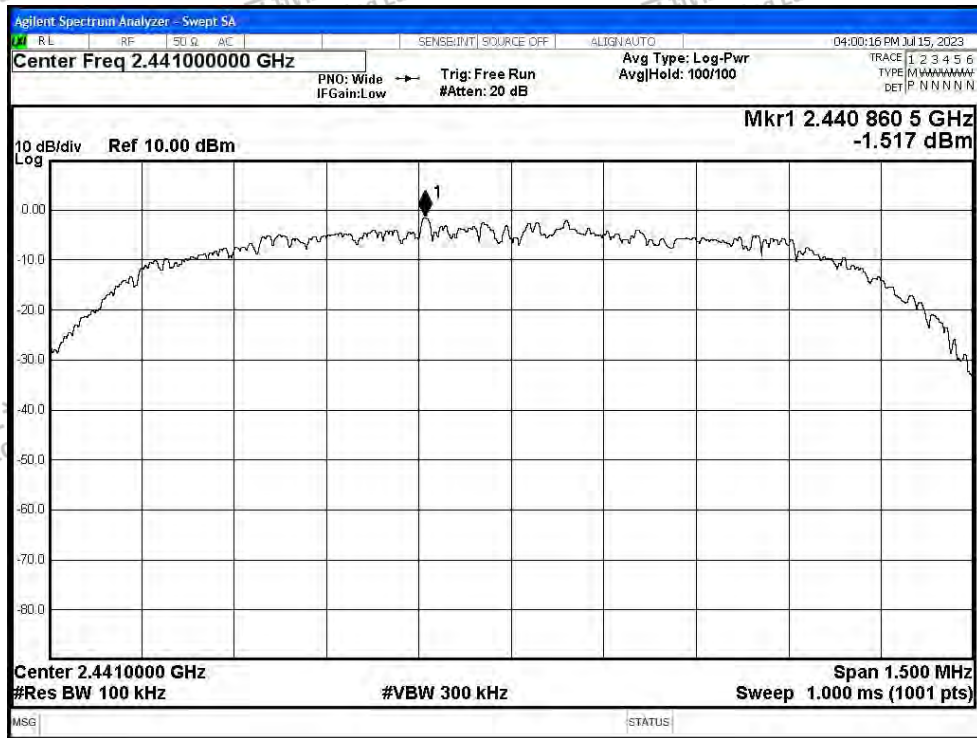


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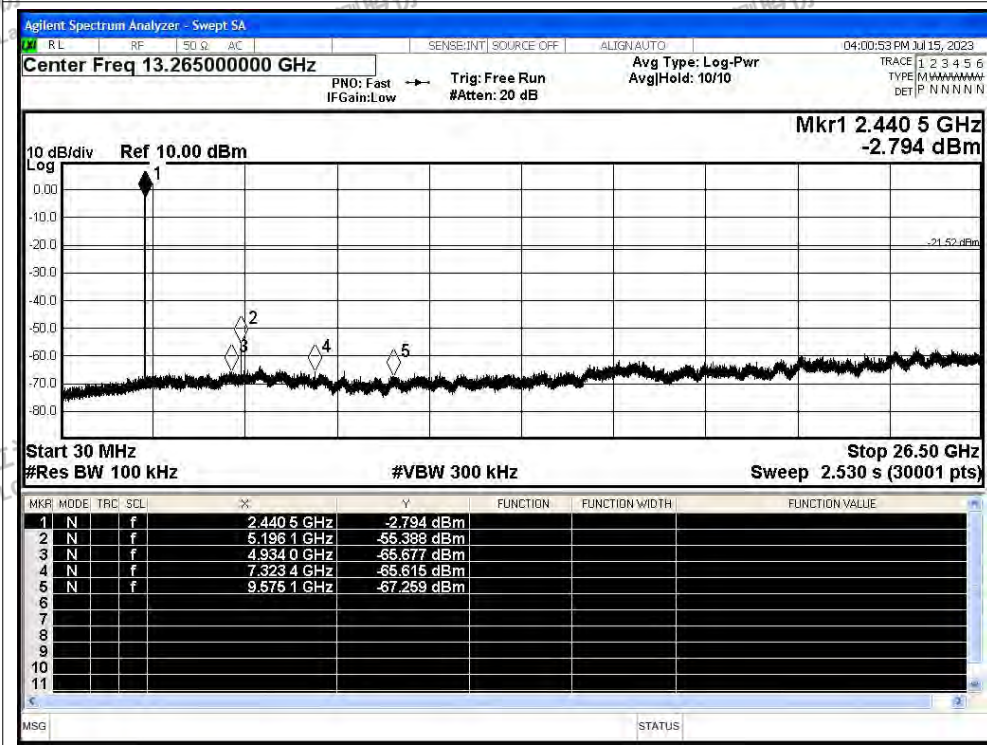




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

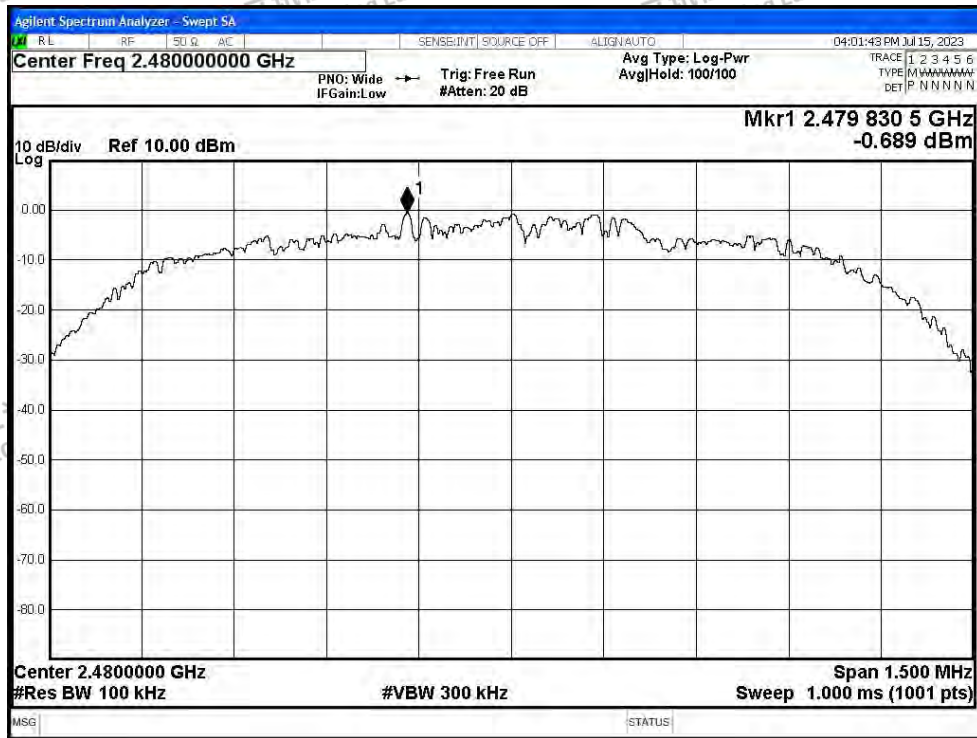


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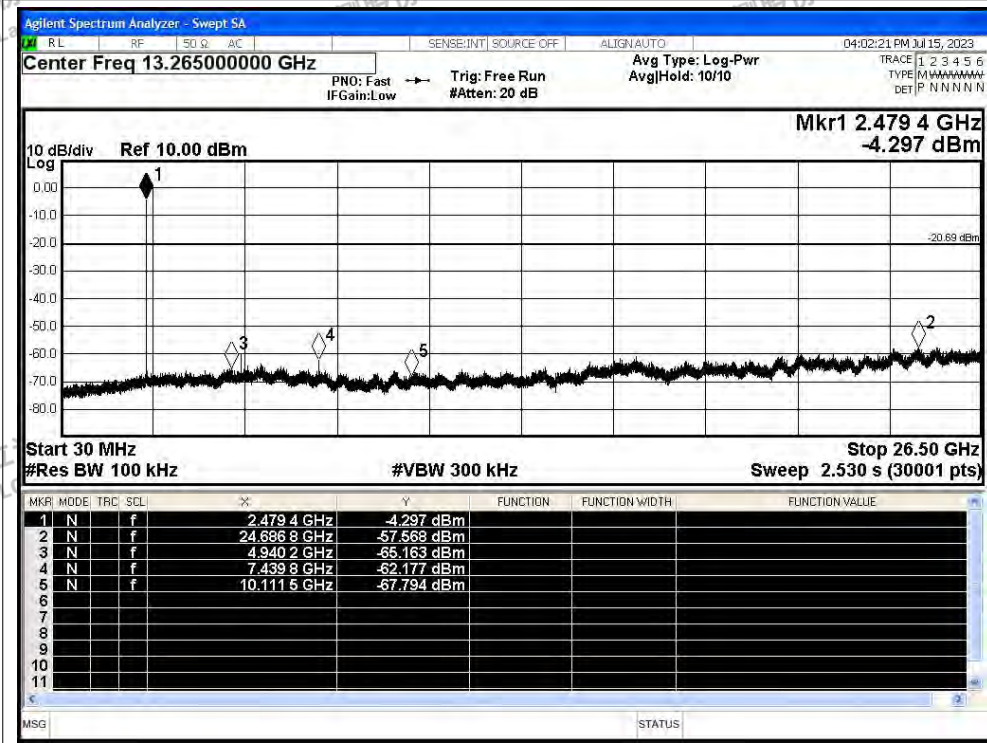




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



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	-52.56	2	44.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-62.02	2	35.24	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2379.024	-48.95	2	48.31	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2384.496	-61.44	2	35.82	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.94	2	45.32	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-61.6	2	35.66	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.37	2	46.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-61.13	2	36.13	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.208	-48.26	2	49	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.016	-60.98	2	36.28	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.09	2	47.17	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-61.46	2	35.8	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-52.64	2	44.62	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-62.05	2	35.21	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2353.2	-48.77	2	48.49	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.2	-61.24	2	36.02	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.58	2	45.68	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-61.64	2	35.62	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.67	2	46.59	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-60.73	2	36.53	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2486.608	-48.99	2	48.27	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-60.73	2	36.53	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.4	2	46.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-61.5	2	35.76	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.14	2	46.12	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-62.11	2	35.15	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2369.328	-49.12	2	48.14	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.528	-61.4	2	35.86	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-52.75	2	44.51	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-61.51	2	35.75	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.58	2	47.68	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-60.59	2	36.67	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2486.968	-47.96	2	49.3	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.56	-60.47	2	36.79	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.83	2	46.43	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-61.45	2	35.81	Average	54	Pass

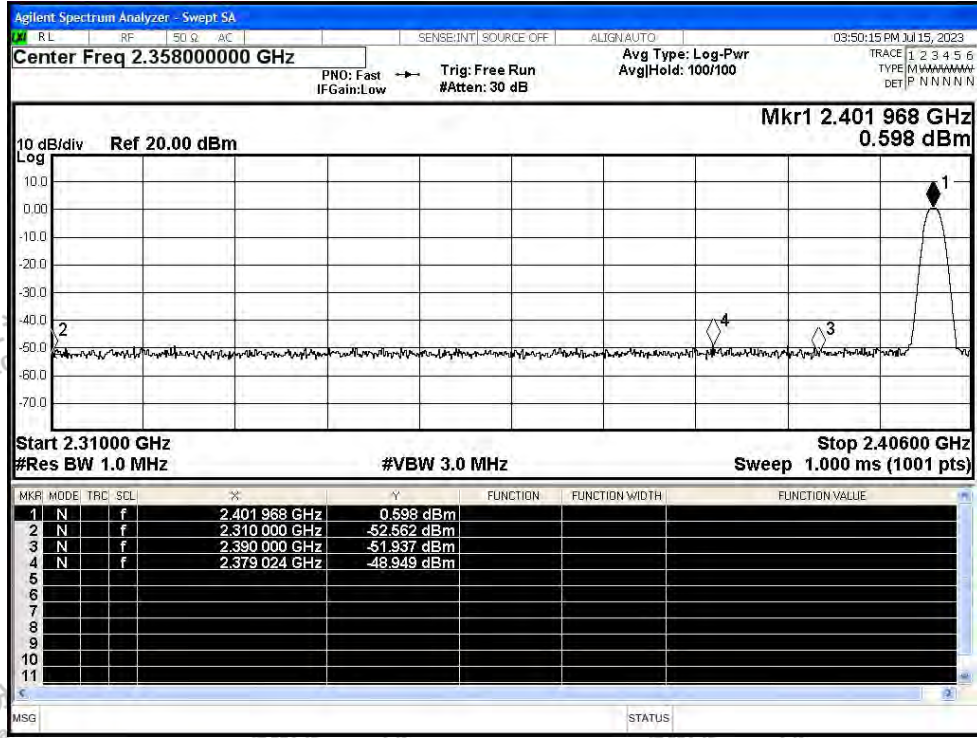


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 Scan code to check authenticity

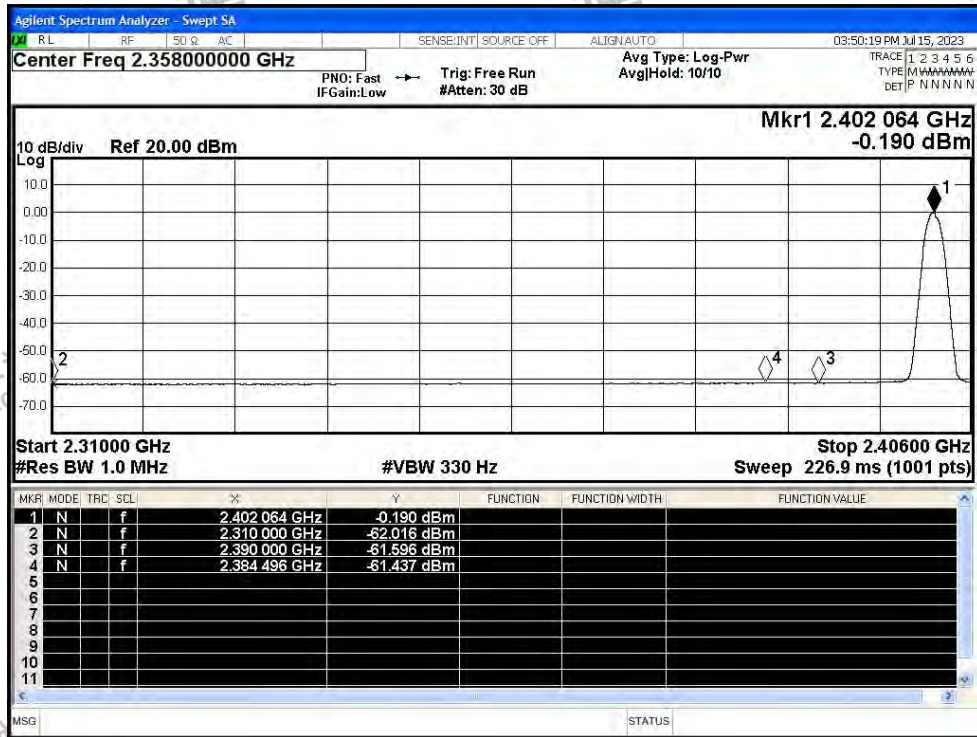


Test Graphs

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

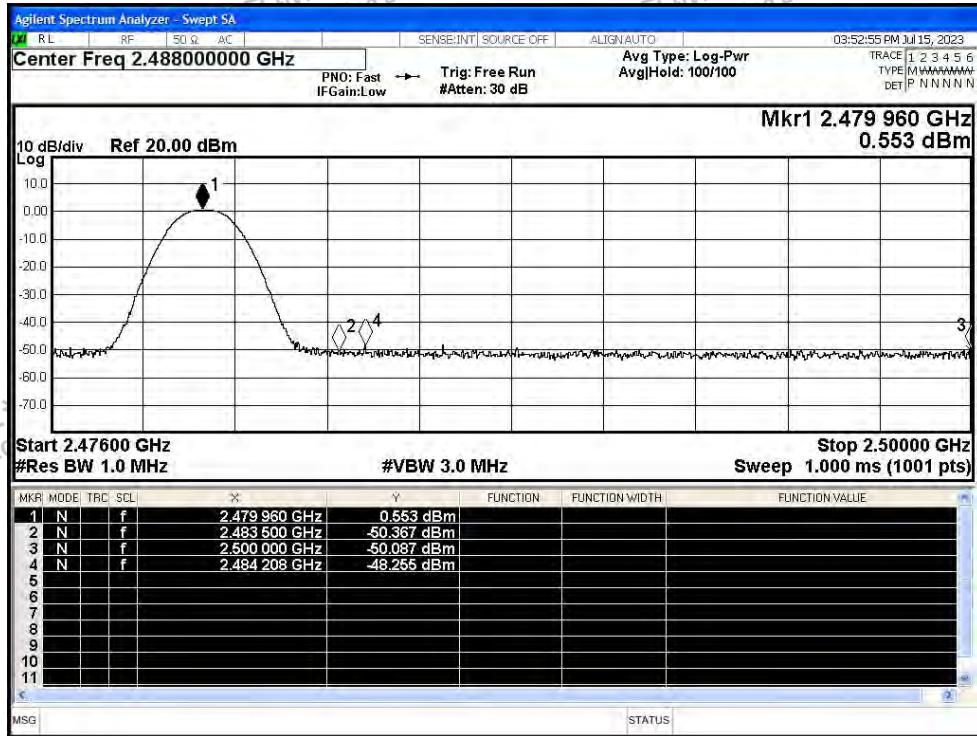


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

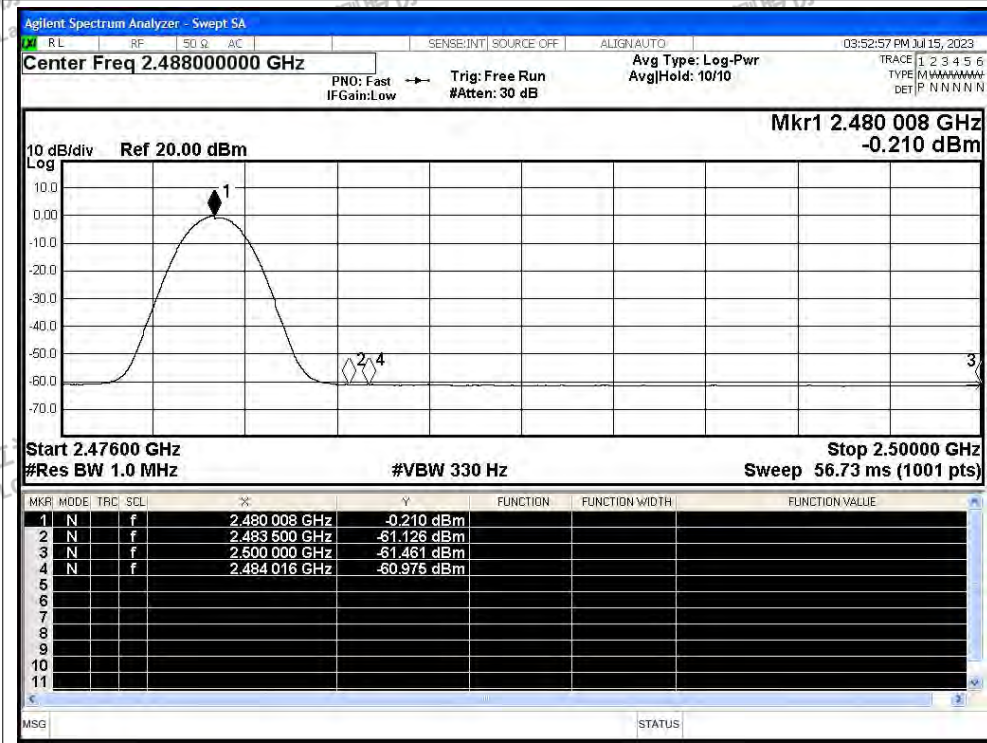




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

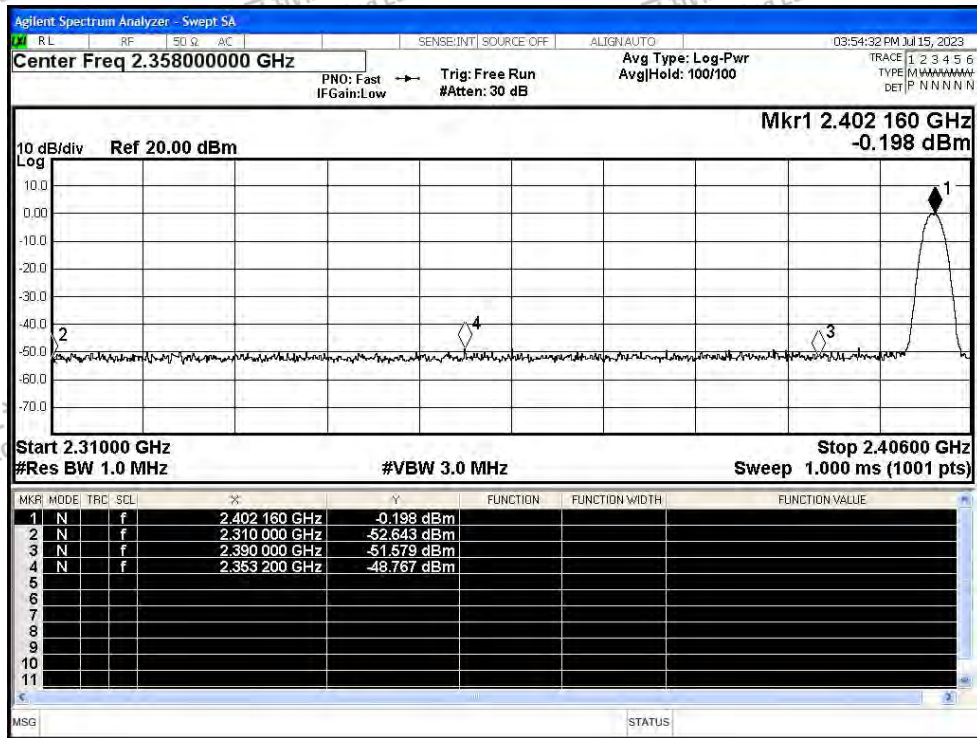


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

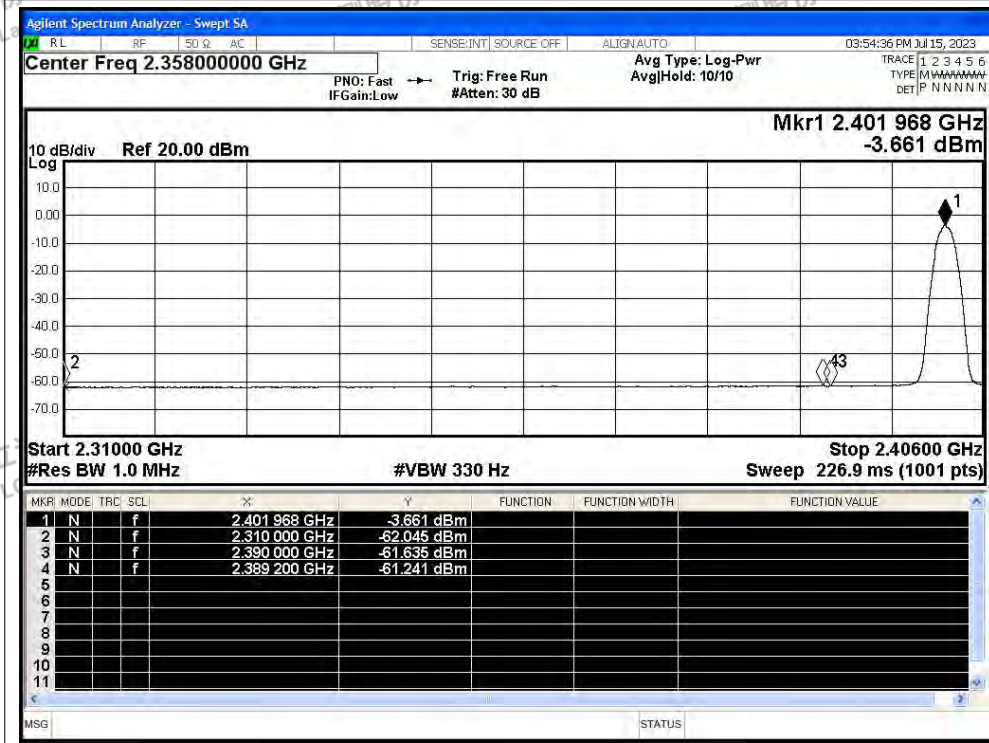




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

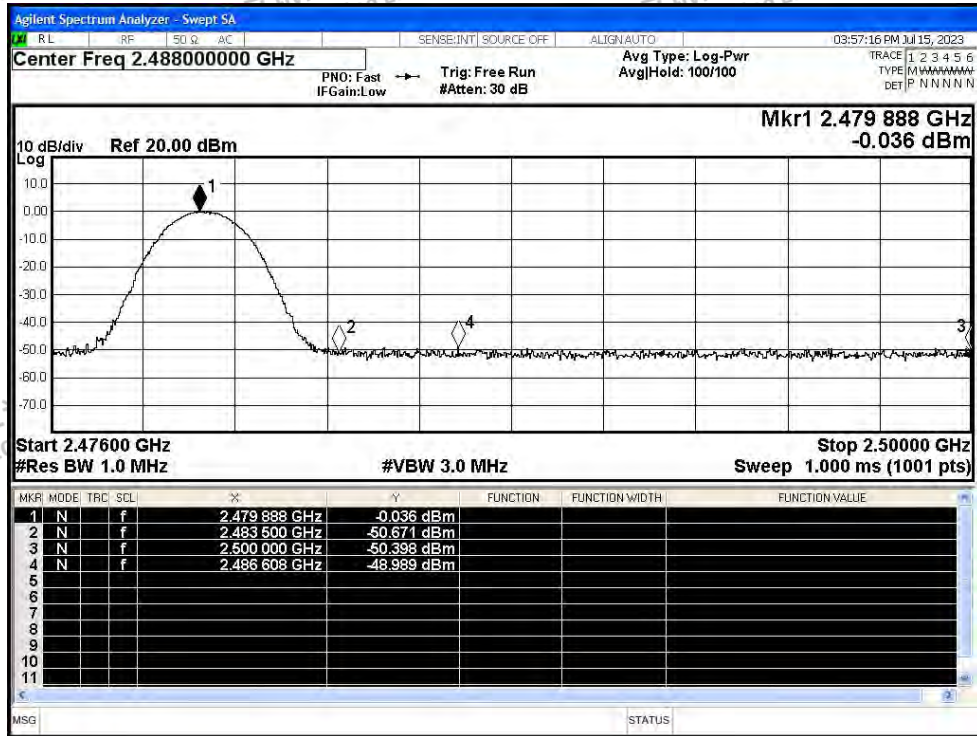


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

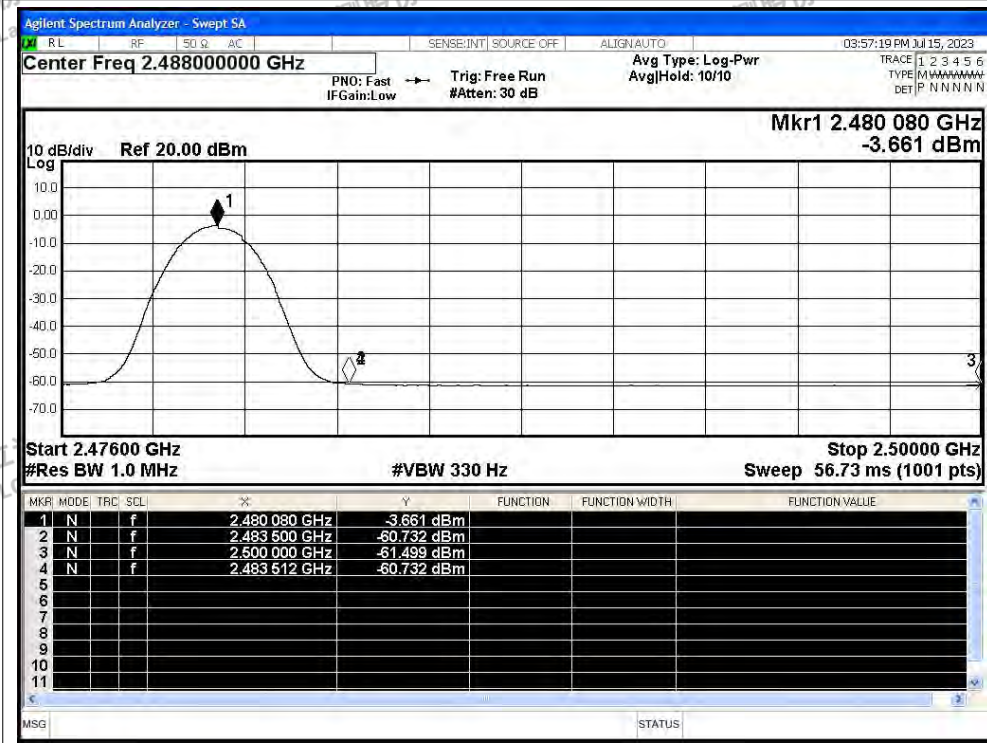




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

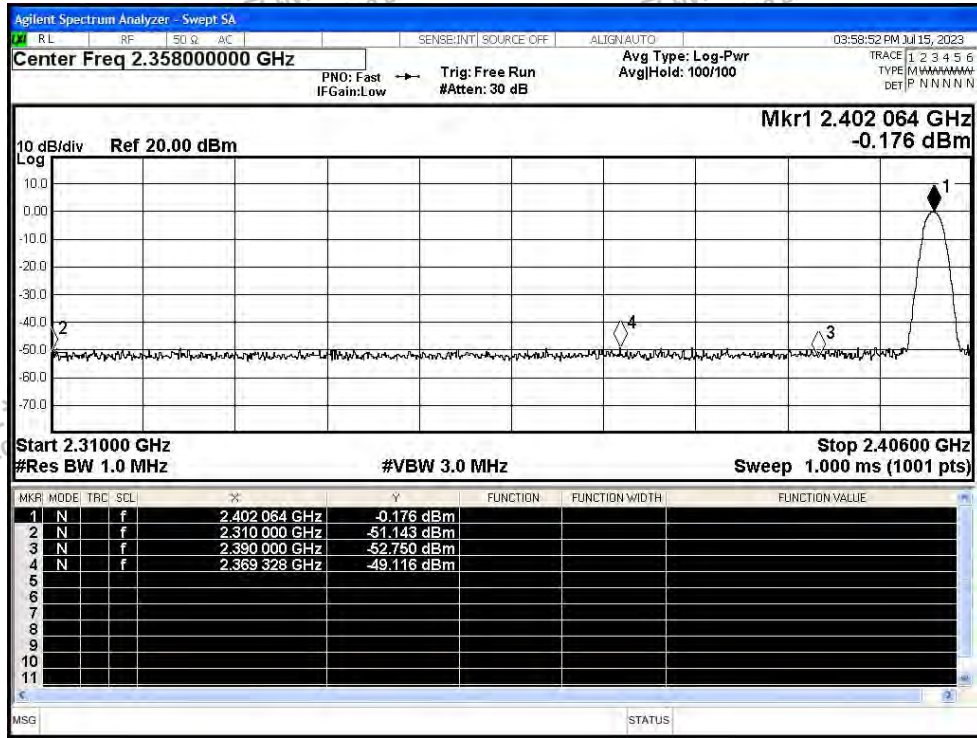


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

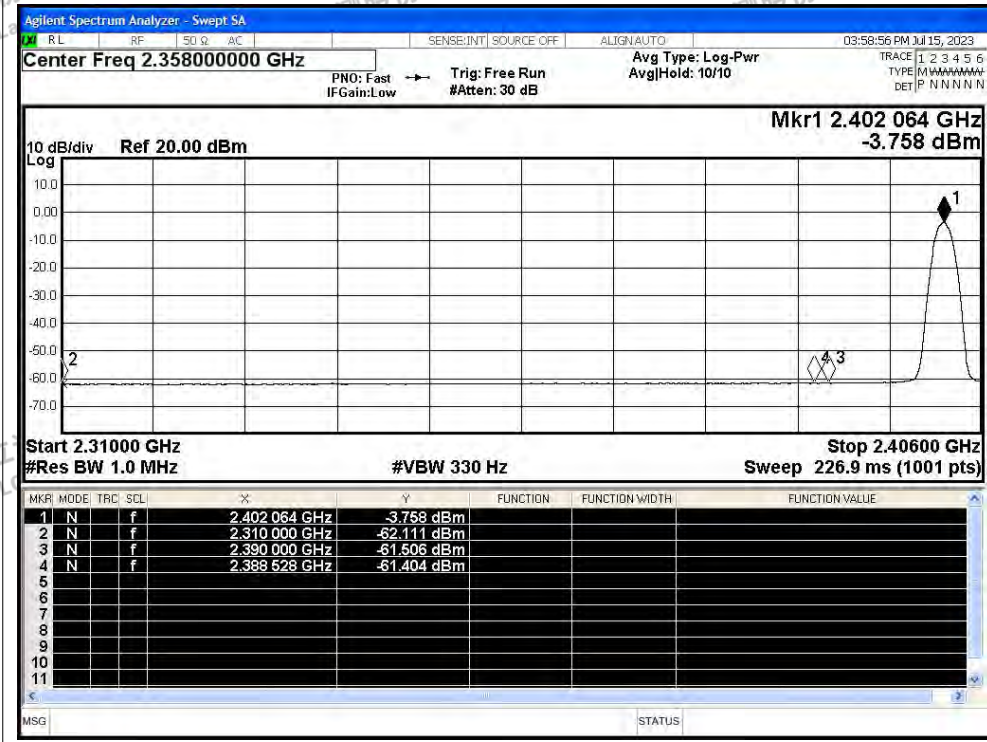




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

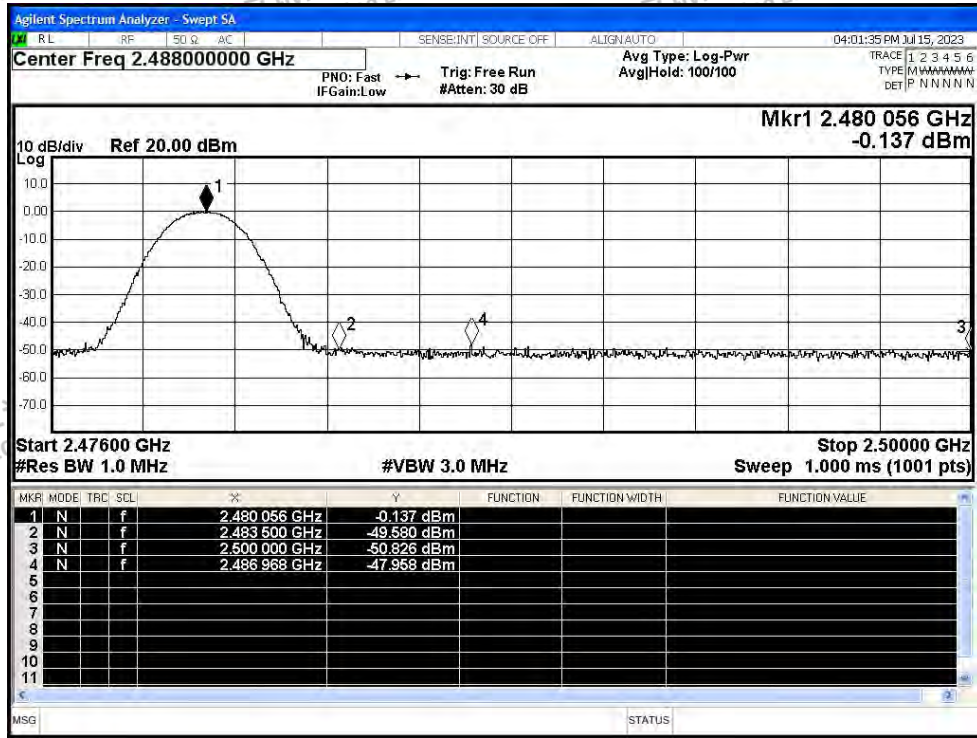


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

